

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : CTO WE13

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

**ORDER ID : P4600
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : P4600

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

P4600-01
P4600-02
P4600-03
P4600-04
P4600-05
P4600-06
P4600-07

Client Sample Number

BP-VPB-190-TB-20241025
BP-VPB-190-DUP-20241025
BP-VPB-190-GW-438-440
BP-VPB-190-GW-458-460
BP-VPB-190-GW-478-480
BP-VPB-190-GW-498-500
BP-VPB-190-GW-518-520

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: 11/8/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager : Ernie Wu

Chemtech Project # P4600

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

7 Water samples were received on 10/28/2024.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for

BP-VPB-190-GW-438-440 [Terphenyl-d14 - 155%],

BP-VPB-190-GW-478-480 [Terphenyl-d14 - 154%],

BP-VPB-190-GW-518-520 [Terphenyl-d14 - 138%],

PB164511BL [2-Fluorobiphenyl - 107%], All failing surrogates were not associated with client parameter list, therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements except for BP-VPB-190-GW-478-480 but not associated with client parameter list, therefore no corrective action taken.

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 File ID BN034850.D met the requirements except for 2,4,6-Tribromophenol is not associated with client parameter list therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

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

CHEMTECH PROJECT NUMBER: P4600

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements .			
	The Continuous Calibration File ID BN034850.D met the requirements except for 2,4,6- Tribromophenol , is not associated with client parameter list therefore no corrective action taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for BP-VPB-190-GW-438-440 [Terphenyl-d14 - 155%], BP-VPB-190-GW-478-480 [Terphenyl-d14 - 154%], BP-VPB-190-GW-518-520 [Terphenyl-d14 - 138%], PB164511BL [2-Fluorobiphenyl - 107%], All failing surrogates were not associated with client parameter list, therefore no corrective action taken.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			

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

(CONTINUED)

		NA	NO	YES
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas met the acceptable requirements except for BP-VPB-190-GW-478-480 but not associated with client parameter list, therefore no corrective action taken.			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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

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

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4600

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/08/2024

LAB CHRONICLE

OrderID:	P4600	OrderDate:	10/29/2024 10:17:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	K63,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4600-03	BP-VPB-190-GW-438-440	Water			10/25/24			10/28/24
			SVOC-SIMGroup1	8270-Modified		10/29/24	11/04/24	
P4600-05	BP-VPB-190-GW-478-480	Water			10/25/24			10/28/24
			SVOC-SIMGroup1	8270-Modified		10/29/24	11/05/24	
P4600-07	BP-VPB-190-GW-518-520	Water			10/28/24			10/28/24
			SVOC-SIMGroup1	8270-Modified		10/29/24	11/05/24	



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Fax : 908 789 8922

Hit Summary Sheet SW-846

SDG No.: P4600
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
Total Svoc :					0.00				
Total Concentration:					0.00				



QC SUMMARY

- 1
- 2
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- 11
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- 16
- 17
- 18

Surrogate Summary

SW-846

SDG No.: **P4600**

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

Analytical Method: **8270-Modified**

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
P4600-03	BP-VPB-190-GW-438-440	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.31	76		30	150
		Nitrobenzene-d5	0.4	0.31	77		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.62	155	*	58	132
P4600-05	BP-VPB-190-GW-478-480	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.42	104		53	106
		Terphenyl-d14	0.4	0.62	154	*	58	132
P4600-07	BP-VPB-190-GW-518-520	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.55	138	*	58	132
PB164511BL	PB164511BL	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.43	107	*	53	106
		Terphenyl-d14	0.4	0.51	126		58	132
PB164511BS	PB164511BS	2-Methylnaphthalene-d10	0.4	0.45	111		30	150
		Fluoranthene-d10	0.4	0.34	86		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.44	109		58	132
PB164511BSD	PB164511BSD	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.41	102		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4600

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034852.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164511BS	1,4-Dioxane	0.4	0.34	ug/L	85				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4600

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN034853.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB164511BSD	1,4-Dioxane	0.4	0.33	ug/L	83	3			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164511BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: P4600

SAS No.: P4600 SDG NO.: P4600

Lab File ID: BN034851.D

Lab Sample ID: PB164511BL

Instrument ID: BNA_N

Date Extracted: 10/29/2024

Matrix: (soil/water) Water

Date Analyzed: 11/04/2024

Level: (low/med) LOW

Time Analyzed: 22:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164511BS	PB164511BS	BN034852.D	11/04/2024
PB164511BSD	PB164511BSD	BN034853.D	11/04/2024
BP-VPB-190-GW-518-520	P4600-07	BN034856.D	11/05/2024
BP-VPB-190-GW-438-440	P4600-03	BN034854.D	11/04/2024
BP-VPB-190-GW-478-480	P4600-05	BN034855.D	11/05/2024

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4600SDG NO.: P4600Lab File ID: BN034739.DDFTPP Injection Date: 10/30/2024Instrument ID: BNA_NDFTPP Injection Time: 08:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.7
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	40
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	53.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	21.7
365	Greater than 1% of mass 198	2.6
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	61
443	15.0 - 24.0% of mass 442	11.3 (18.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN034740.D	10/30/2024	09:20
SSTDICC0.2	SSTDICC0.2	BN034741.D	10/30/2024	09:56
SSTDICCC0.4	SSTDICCC0.4	BN034742.D	10/30/2024	10:32
SSTDICC0.8	SSTDICC0.8	BN034743.D	10/30/2024	11:08
SSTDICC1.6	SSTDICC1.6	BN034744.D	10/30/2024	11:44
SSTDICC3.2	SSTDICC3.2	BN034745.D	10/30/2024	12:20
SSTDICC5.0	SSTDICC5.0	BN034746.D	10/30/2024	12:56



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: P4600SDG NO.: P4600Lab File ID: BN034849.DDFTPP Injection Date: 11/04/2024Instrument ID: BNA_NDFTPP Injection Time: 20:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	53.1
68	Less than 2.0% of mass 69	0.8 (1.6) 1
69	Mass 69 relative abundance	49
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	61.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	58.2
443	15.0 - 24.0% of mass 442	11.1 (19.1) 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	BN034850.D	11/04/2024	21:33
PB164511BL	PB164511BL	BN034851.D	11/04/2024	22:09
PB164511BS	PB164511BS	BN034852.D	11/04/2024	22:45
PB164511BSD	PB164511BSD	BN034853.D	11/04/2024	23:21
BP-VPB-190-GW-438-440	P4600-03	BN034854.D	11/04/2024	23:57
BP-VPB-190-GW-478-480	P4600-05	BN034855.D	11/05/2024	00:33
BP-VPB-190-GW-518-520	P4600-07	BN034856.D	11/05/2024	01:09
SSTDCCC0.4EC	SSTDCCC0.4	BN034861.D	11/05/2024	04:09

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4600 SAS No.: P4600 SDG NO.: P4600

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034850.D Time Analyzed: 21:33

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	7674	7.589	23850	10.35	12009	14.22
UPPER LIMIT	15348	8.089	47700	10.851	24018	14.722
LOWER LIMIT	3837	7.089	11925	9.851	6004.5	13.722
EPA SAMPLE NO.						
01 BP-VPB-190-GW-478-480	6889	7.59	21222	10.35	10585	14.22
02 BP-VPB-190-GW-438-440	7603	7.59	23260	10.35	11506	14.22
03 PB164511BL	6305	7.59	18630	10.35	8717	14.22
04 PB164511BS	6963	7.59	20876	10.35	10113	14.22
05 PB164511BSD	6841	7.59	20343	10.35	9830	14.22
06 BP-VPB-190-GW-518-520	6525	7.59	20443	10.35	10522	14.22

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.: P4600 SAS No.: P4600 SDG NO.: P4600

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 11/04/2024

Lab File ID: BN034850.D Time Analyzed: 21:33

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	23508	16.97	14579	21.16	11281	23.335
UPPER LIMIT	47016	17.47	29158	21.66	22562	23.835
LOWER LIMIT	11754	16.47	7289.5	20.66	5640.5	22.835
EPA SAMPLE NO.						
01 BP-VPB-190-GW-478-480	19498	16.97	8880	21.16	4054 *	23.34
02 BP-VPB-190-GW-438-440	21221	16.96	9919	21.16	7346	23.34
03 PB164511BL	16792	16.97	7936	21.16	6177	23.34
04 PB164511BS	18739	16.97	9523	21.16	6855	23.34
05 PB164511BSD	18690	16.97	9814	21.16	7135	23.34
06 BP-VPB-190-GW-518-520	19872	16.97	10871	21.16	5696	23.34

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

1
2
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18

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/25/24
Project:	CTO WE13	Date Received:	10/28/24
Client Sample ID:	BP-VPB-190-GW-438-440	SDG No.:	P4600
Lab Sample ID:	P4600-03	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	800 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034854.D	1	10/29/24 12:50	11/04/24 23:57	PB164511

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.25	U	0.090	0.25	0.25	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		155%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7600	7.589				
1146-65-2	Naphthalene-d8	23300	10.351				
15067-26-2	Acenaphthene-d10	11500	14.218				
1517-22-2	Phenanthrene-d10	21200	16.964				
1719-03-5	Chrysene-d12	9920	21.158				
1520-96-3	Perylene-d12	7350	23.342				

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\BN110424\
Data File : BN034854.D
Acq On : 04 Nov 2024 23:57
Operator : RC/JU
Sample : P4600-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

Quant Time: Nov 05 00:40:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

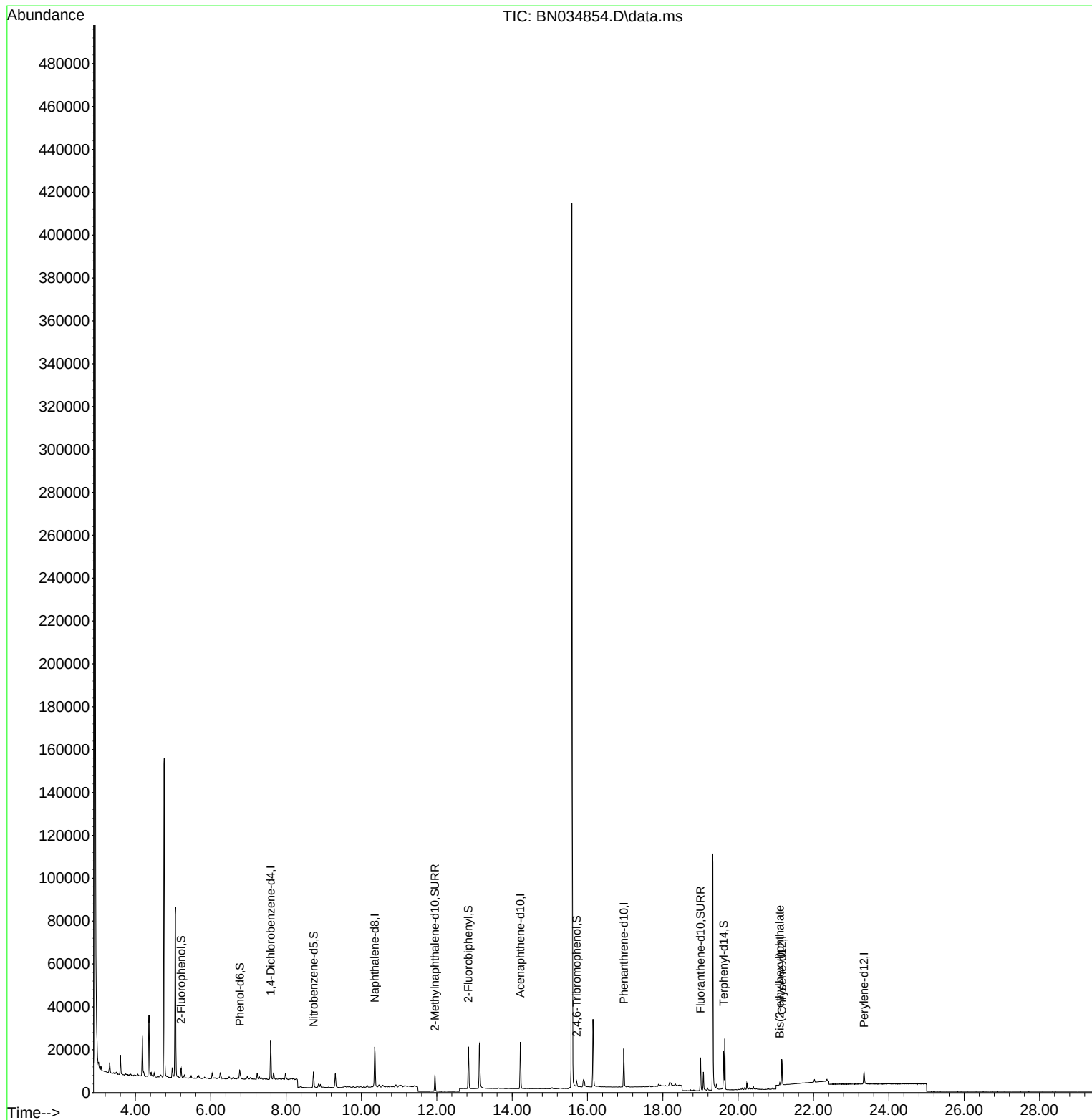
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	7603	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	23260	0.400	ng	# 0.00
13) Acenaphthene-d10	14.218	164	11506	0.400	ng	0.00
19) Phenanthrene-d10	16.964	188	21221	0.400	ng	0.00
29) Chrysene-d12	21.158	240	9919	0.400	ng	# 0.00
35) Perylene-d12	23.342	264	7346	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	2999	0.130	ng	0.00
5) Phenol-d6	6.773	99	3279	0.110	ng	0.00
8) Nitrobenzene-d5	8.728	82	5638	0.308	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	9734	0.289	ng	0.00
14) 2,4,6-Tribromophenol	15.710	330	1222	0.215	ng	0.00
15) 2-Fluorobiphenyl	12.839	172	15735	0.347	ng	0.00
27) Fluoranthene-d10	19.003	212	15206	0.305	ng	0.00
31) Terphenyl-d14	19.612	244	13234	0.621	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.104	149	1275	0.039	ng	# 92

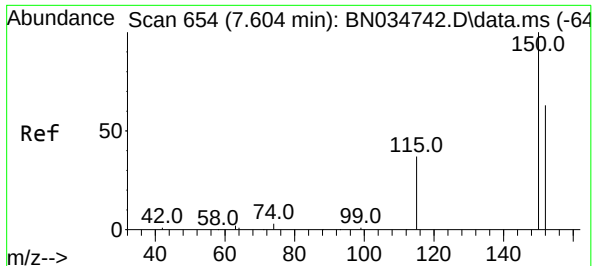
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034854.D
Acq On : 04 Nov 2024 23:57
Operator : RC/JU
Sample : P4600-03
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

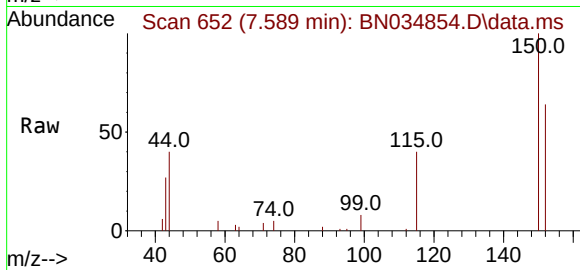
Quant Time: Nov 05 00:40:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration



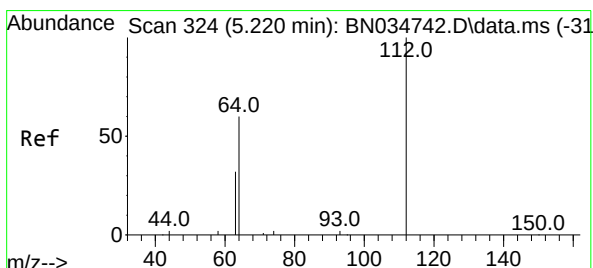
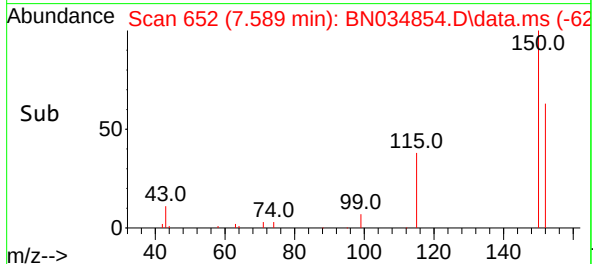
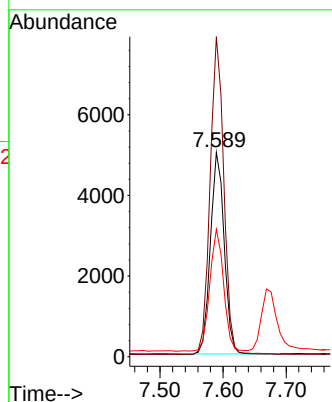


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

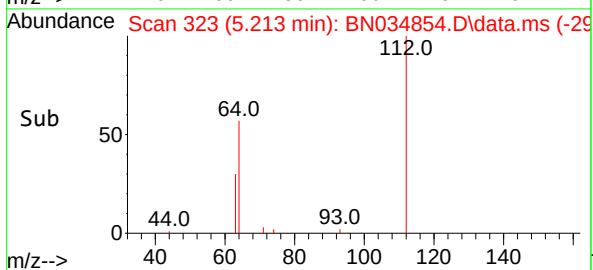
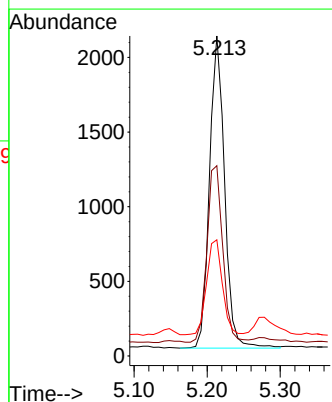
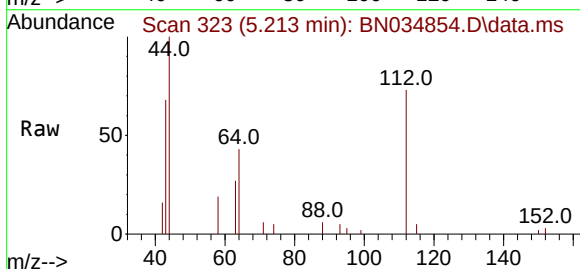


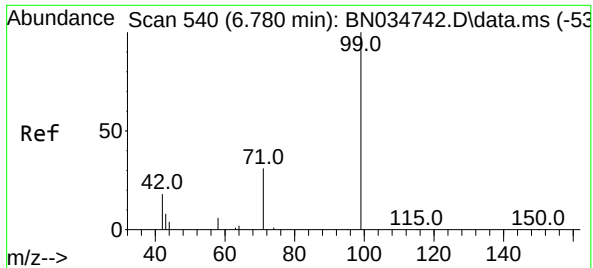
Tgt Ion:152 Resp: 7603
Ion Ratio Lower Upper
152 100
150 156.6 124.9 187.3
115 62.4 50.2 75.2



#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

Tgt Ion:112 Resp: 2999
Ion Ratio Lower Upper
112 100
64 59.1 44.9 67.3
63 31.8 23.5 35.3

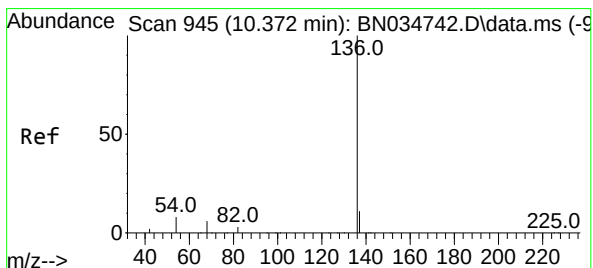
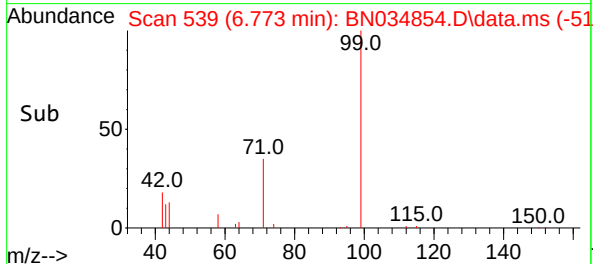
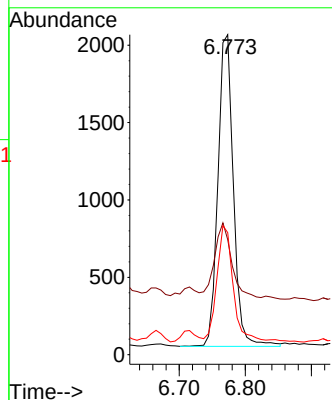
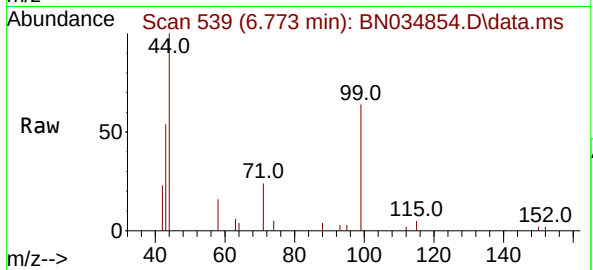




#5
Phenol-d6
Concen: 0.110 ng
RT: 6.773 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

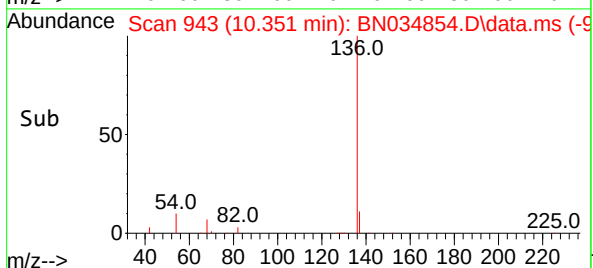
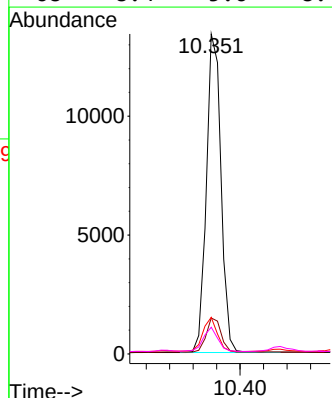
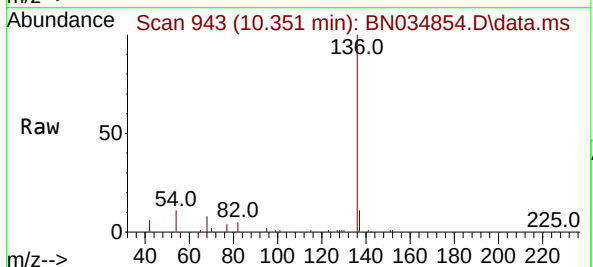
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

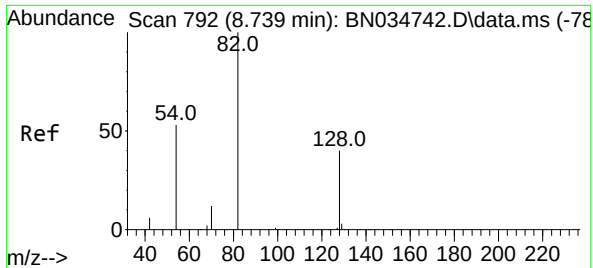
Tgt Ion: 99 Resp: 3279
Ion Ratio Lower Upper
99 100
42 26.0 15.9 23.9#
71 40.0 24.3 36.5#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

Tgt Ion: 136 Resp: 23260
Ion Ratio Lower Upper
136 100
137 11.3 9.2 13.8
54 11.5 7.0 10.4#
68 8.4 5.6 8.4



#8
Nitrobenzene-d5

Concen: 0.308 ng

RT: 8.728 min Scan# 791

Delta R.T. -0.000 min

Lab File: BN034854.D

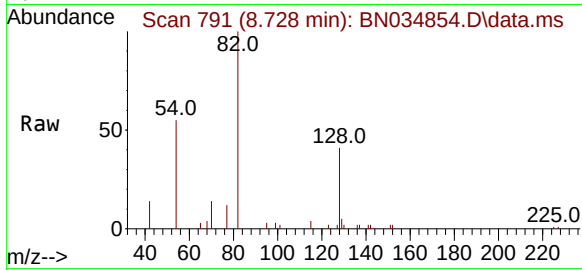
Acq: 04 Nov 2024 23:57

Instrument :

BNA_N

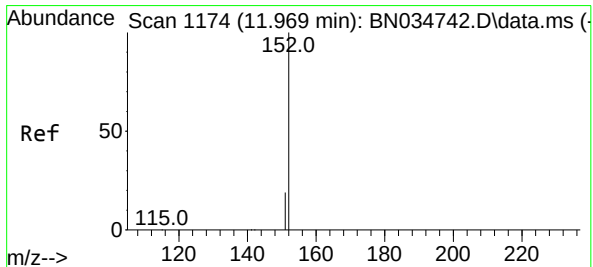
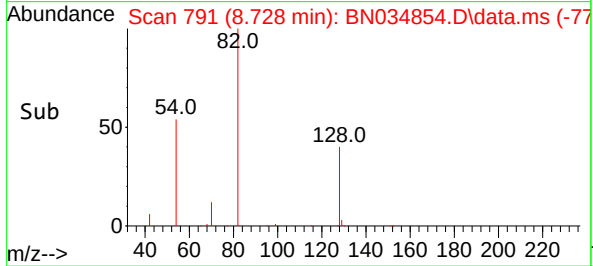
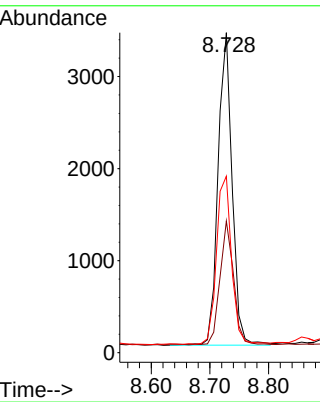
ClientSampleId :

BP-VPB-190-GW-438-440



Tgt Ion: 82 Resp: 5638

Ion	Ratio	Lower	Upper
82	100		
128	41.2	33.7	50.5
54	55.2	44.4	66.6



#11

2-Methylnaphthalene-d10

Concen: 0.289 ng

RT: 11.950 min Scan# 1169

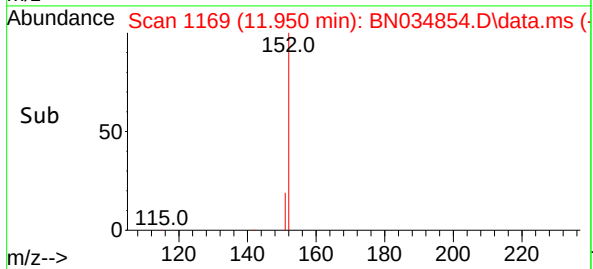
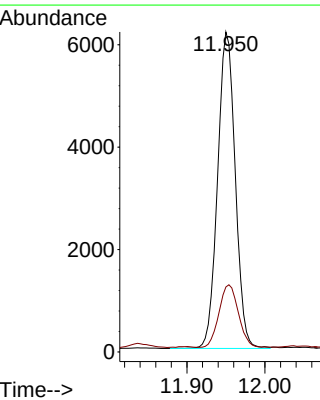
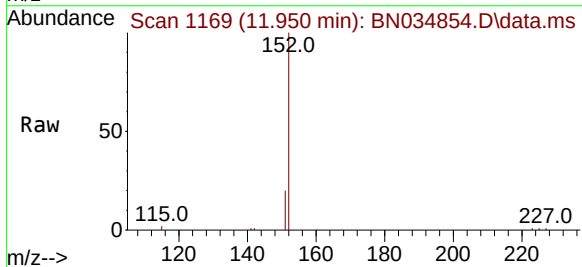
Delta R.T. -0.000 min

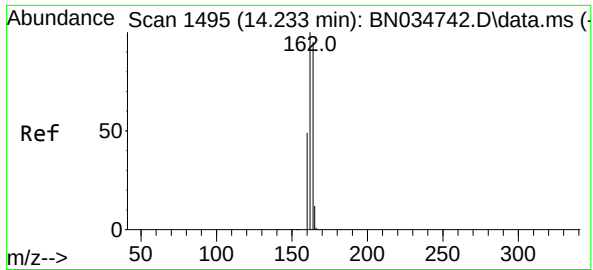
Lab File: BN034854.D

Acq: 04 Nov 2024 23:57

Tgt Ion: 152 Resp: 9734

Ion	Ratio	Lower	Upper
152	100		
151	21.7	16.6	24.8

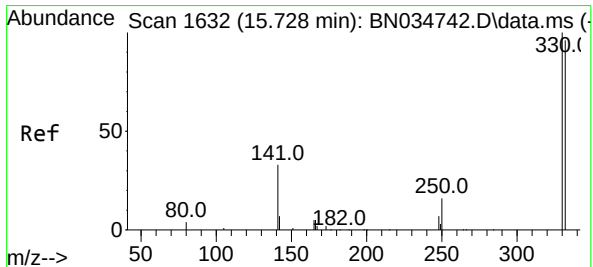
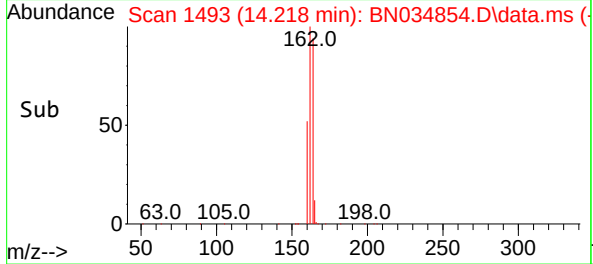
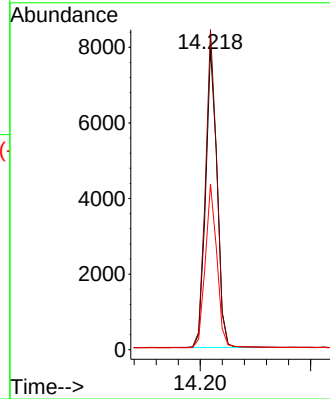
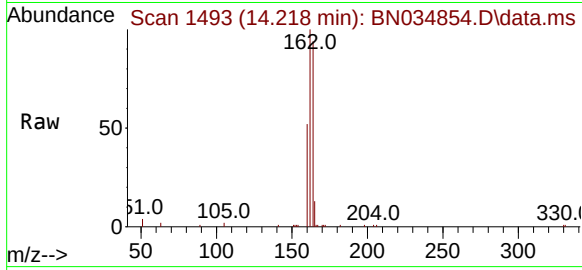




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.218 min Scan# 1493
Delta R.T. -0.004 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

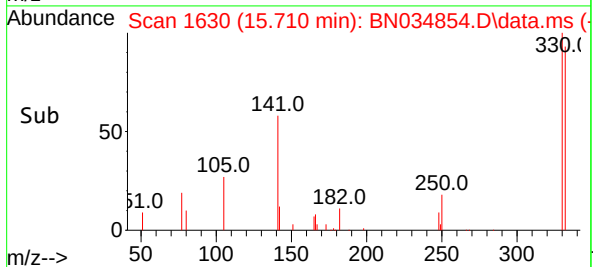
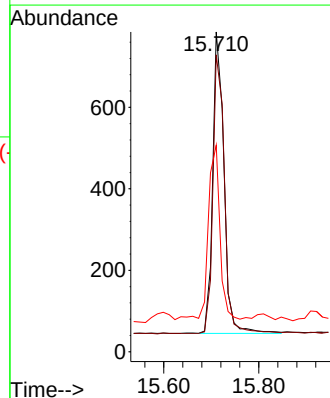
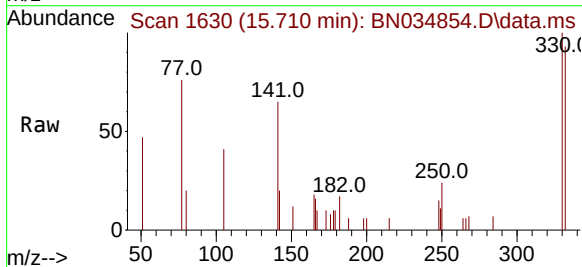
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

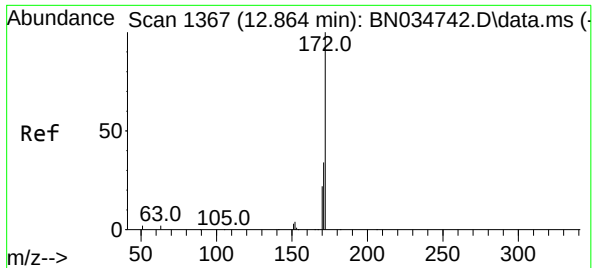
Tgt Ion:164 Resp: 11506
Ion Ratio Lower Upper
164 100
162 106.1 84.3 126.5
160 54.9 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.215 ng
RT: 15.710 min Scan# 1630
Delta R.T. -0.006 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

Tgt Ion:330 Resp: 1222
Ion Ratio Lower Upper
330 100
332 94.7 77.8 116.6
141 59.8 41.0 61.4

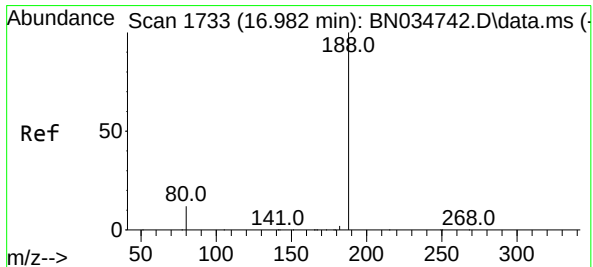
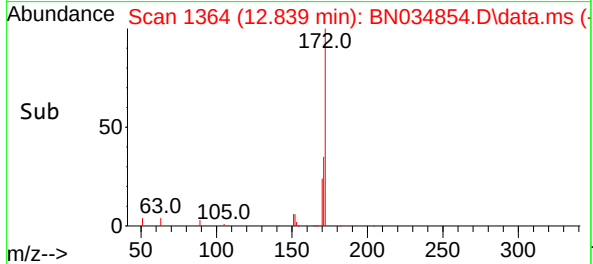
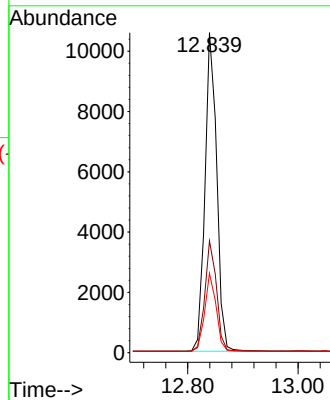
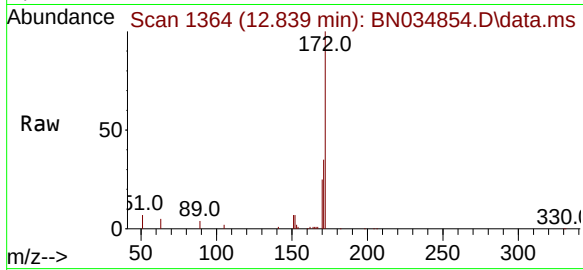




#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.839 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

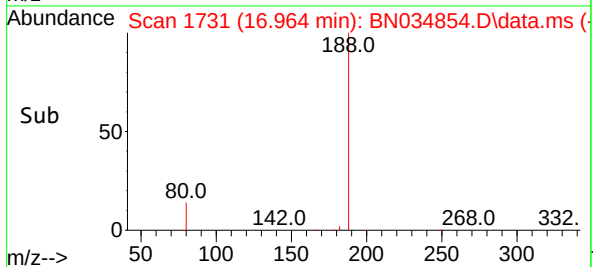
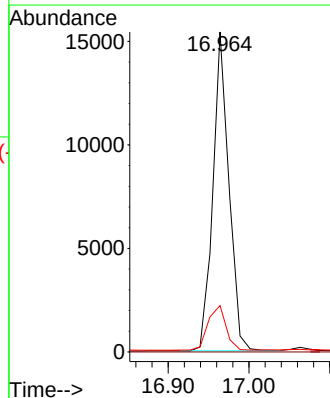
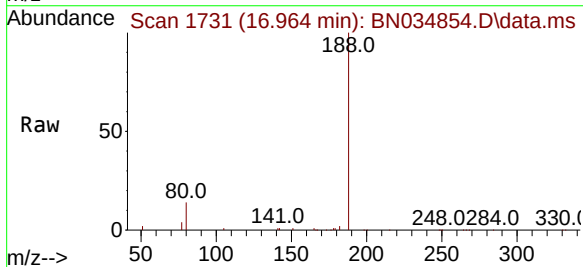
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

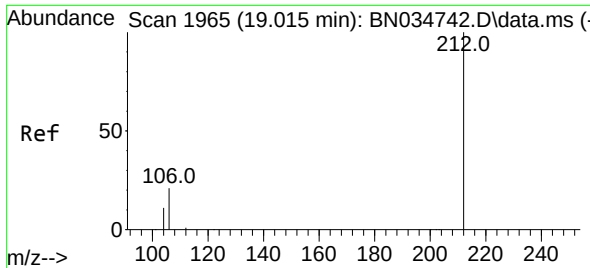
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.2	40.8
170	24.8	18.0	27.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.964 min Scan# 1731
Delta R.T. -0.006 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.5	9.8	14.6

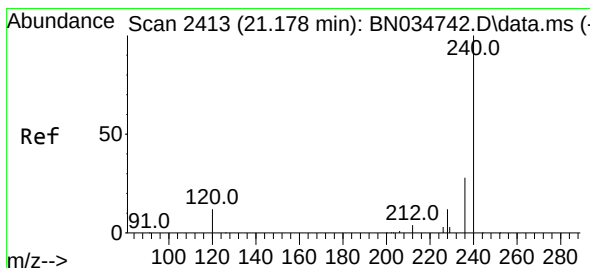
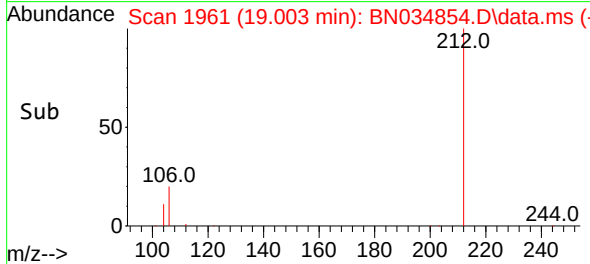
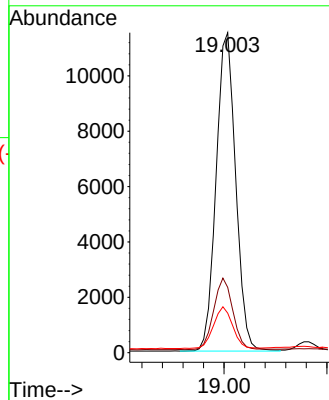
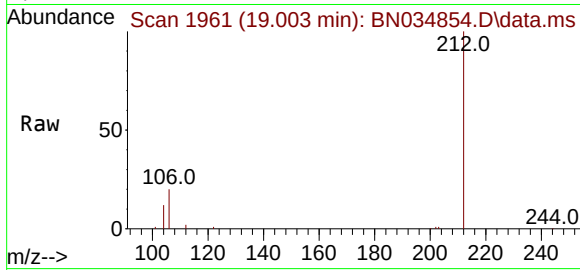




#27
Fluoranthene-d10
Concen: 0.305 ng
RT: 19.003 min Scan# 1961
Delta R.T. 0.002 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

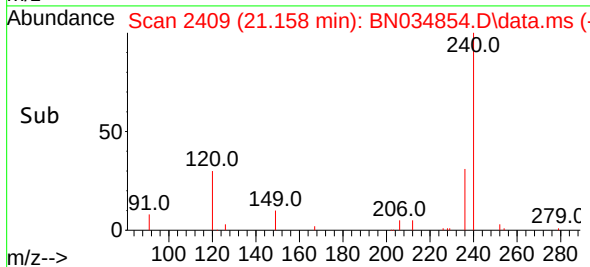
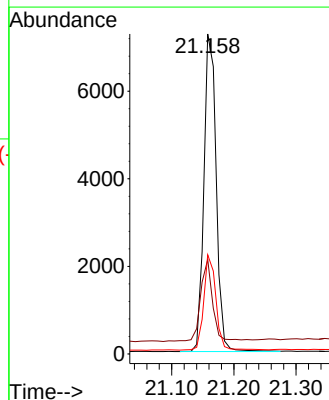
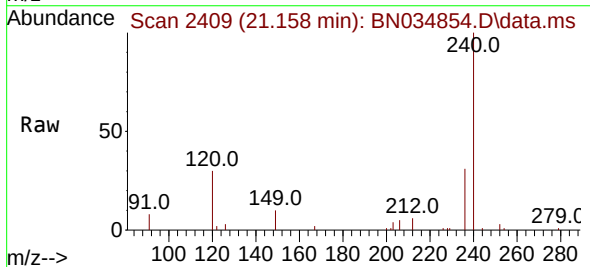
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

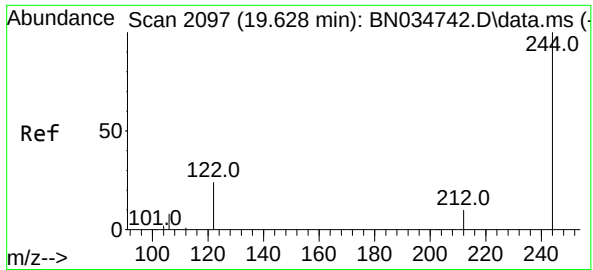
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.1	16.1	24.1
104	12.8	9.2	13.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.002 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

Tgt Ion	Ratio	Lower	Upper
240	100		
120	29.5	11.5	17.3
236	31.0	23.2	34.8

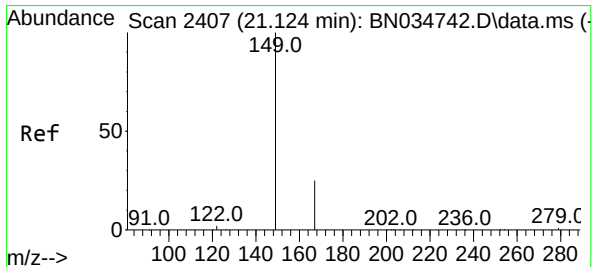
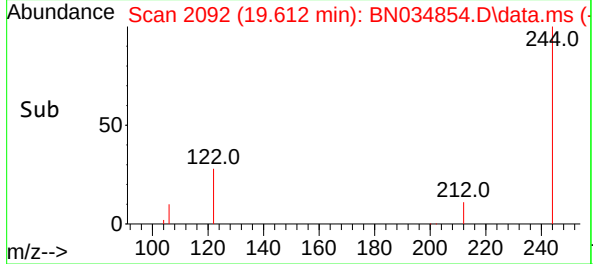
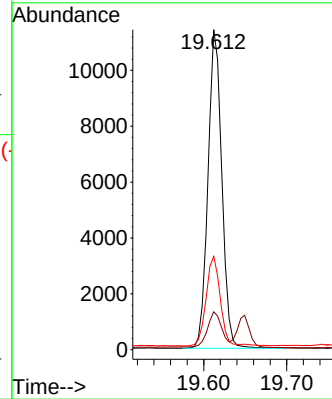
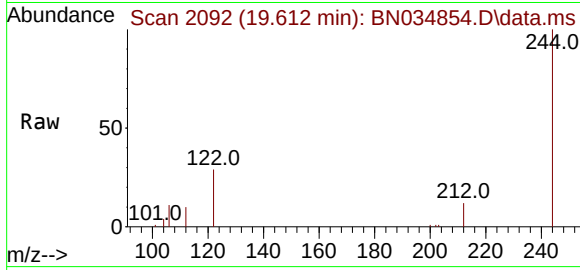




#31
Terphenyl-d14
Concen: 0.621 ng
RT: 19.612 min Scan# 2092
Delta R.T. -0.002 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

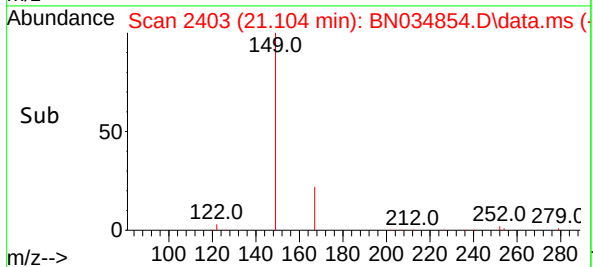
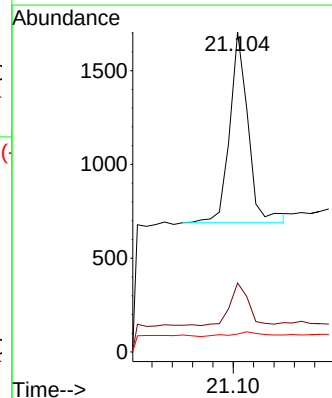
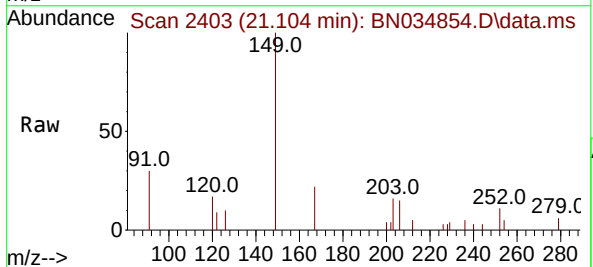
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-438-440

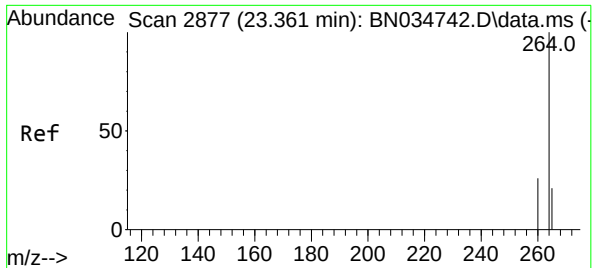
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.8	8.2	12.4
122	29.2	19.8	29.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.039 ng
RT: 21.104 min Scan# 2403
Delta R.T. -0.002 min
Lab File: BN034854.D
Acq: 04 Nov 2024 23:57

Tgt Ion	Ratio	Lower	Upper
149	100		
167	21.6	20.6	30.8
279	4.5	1.5	2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.342 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN034854.D

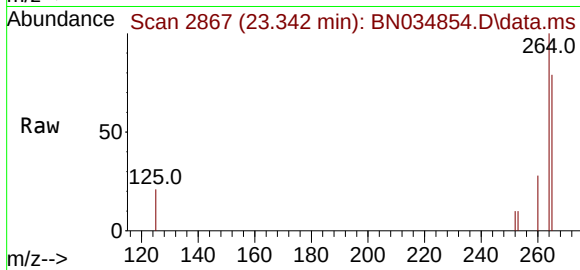
Acq: 04 Nov 2024 23:57

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-438-440



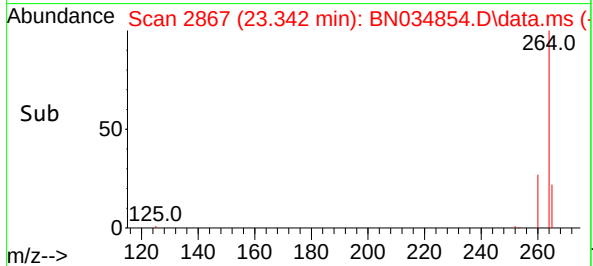
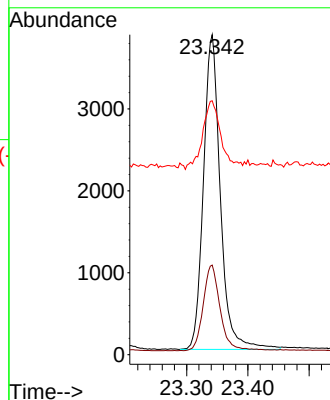
Tgt Ion:264 Resp: 7346

Ion Ratio Lower Upper

264 100

260 28.0 21.5 32.3

265 79.3 47.5 71.3#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/25/24
Project:	CTO WE13	Date Received:	10/28/24
Client Sample ID:	BP-VPB-190-GW-478-480	SDG No.:	P4600
Lab Sample ID:	P4600-05	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	820 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034855.D	1	10/29/24 12:50	11/05/24 00:33	PB164511

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24	U	0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.42		53 - 106		104%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.62	*	58 - 132		154%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6890		7.589			
1146-65-2	Naphthalene-d8	21200		10.351			
15067-26-2	Acenaphthene-d10	10600		14.222			
1517-22-2	Phenanthrene-d10	19500		16.97			
1719-03-5	Chrysene-d12	8880		21.16			
1520-96-3	Perylene-d12	4050		23.341			

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\BN110424\
Data File : BN034855.D
Acq On : 05 Nov 2024 00:33
Operator : RC/JU
Sample : P4600-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

Quant Time: Nov 05 01:05:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

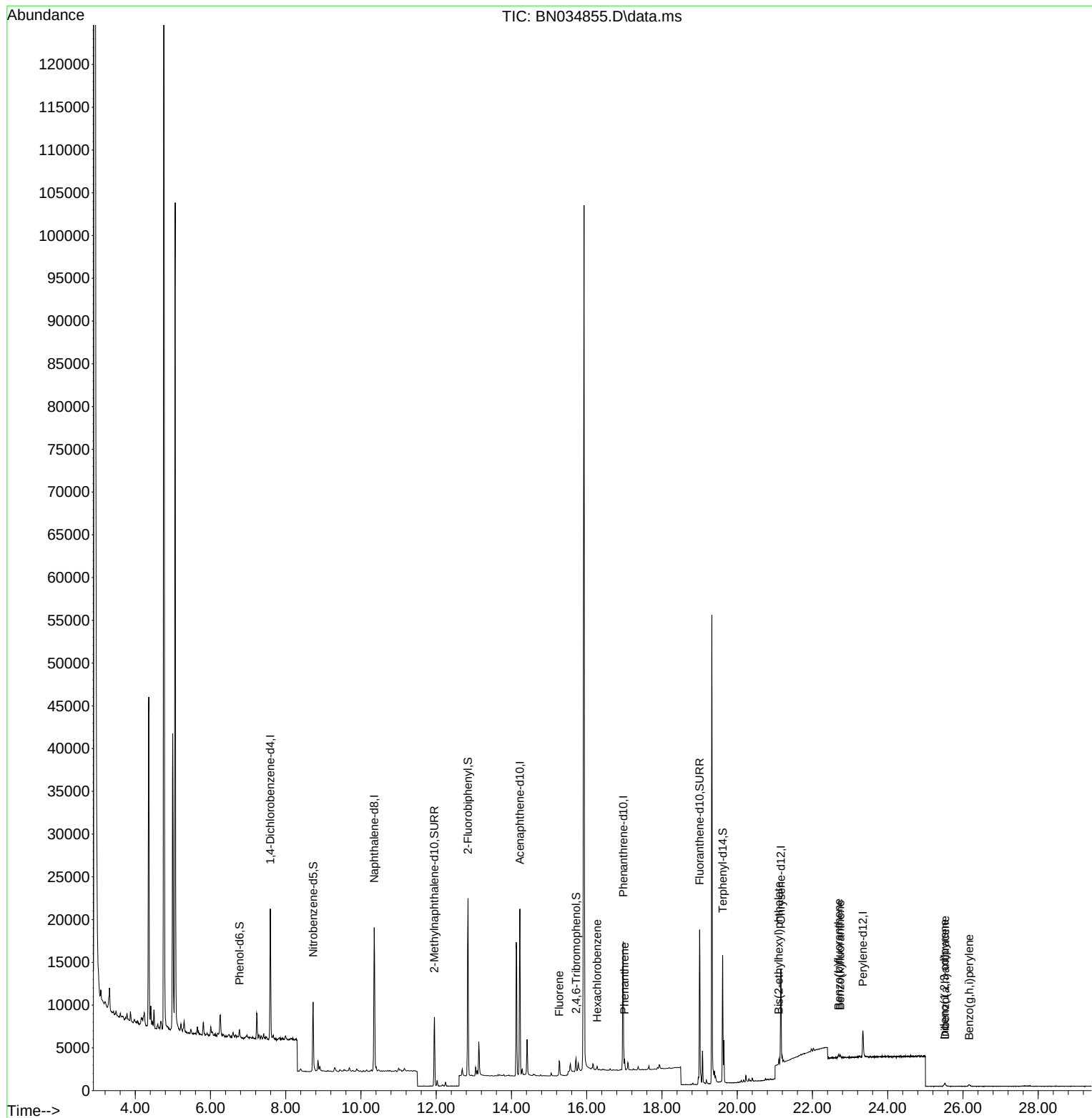
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6889	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	21222	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	10585	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	19498	0.400	ng	0.00
29) Chrysene-d12	21.160	240	8880	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	4054	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	392	0.019	ng	0.00
5) Phenol-d6	6.773	99	604	0.022	ng	0.00
8) Nitrobenzene-d5	8.728	82	6325	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	10932	0.356	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	850	0.163	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	17335	0.416	ng	0.00
27) Fluoranthene-d10	19.001	212	17145	0.375	ng	0.00
31) Terphenyl-d14	19.614	244	11727	0.615	ng	0.00
Target Compounds						
18) Fluorene	15.270	166	1259	0.029	ng	# 58
22) Hexachlorobenzene	16.275	284	272	0.022	ng	93
25) Phenanthrene	17.007	178	1203	0.021	ng	95
34) Bis(2-ethylhexyl)phtha...	21.107	149	629	0.021	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.510	276	384	0.026	ng	# 77
37) Benzo(b)fluoranthene	22.692	252	473	0.029	ng	# 1
38) Benzo(k)fluoranthene	22.738	252	361	0.023	ng	# 1
40) Dibenzo(a,h)anthracene	25.525	278	277	0.024	ng	# 1
41) Benzo(g,h,i)perylene	26.168	276	300	0.024	ng	# 27

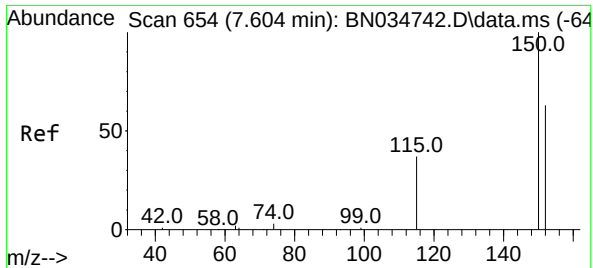
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034855.D
Acq On : 05 Nov 2024 00:33
Operator : RC/JU
Sample : P4600-05
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

Quant Time: Nov 05 01:05:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

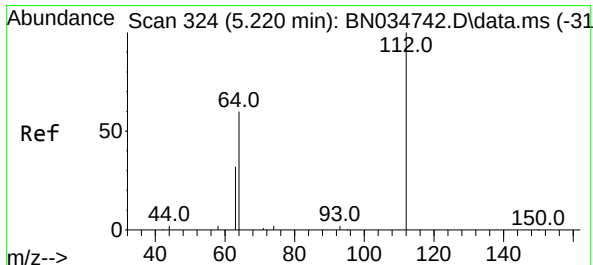
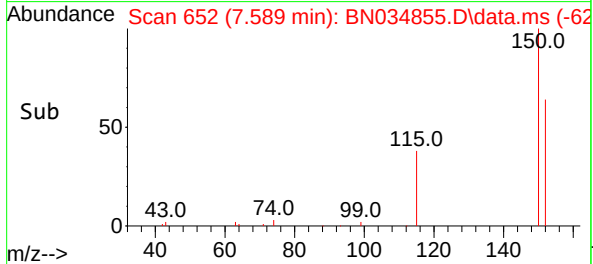
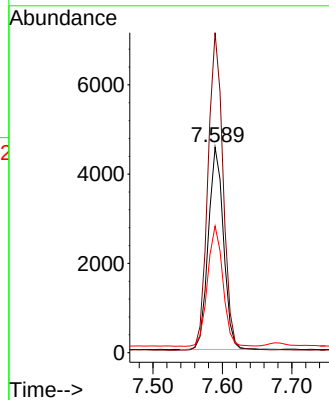
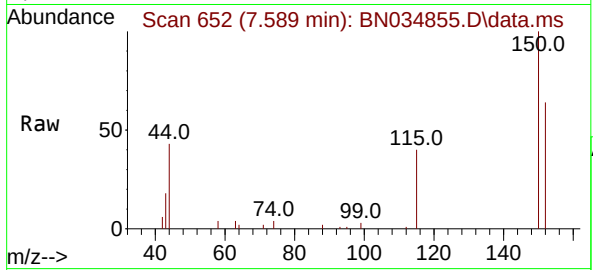




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

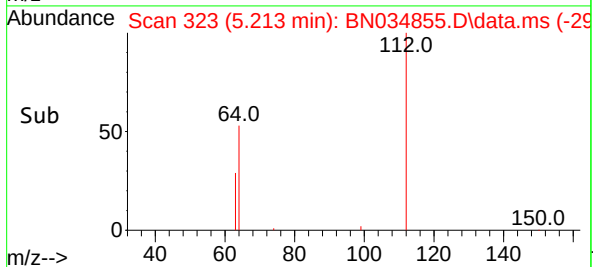
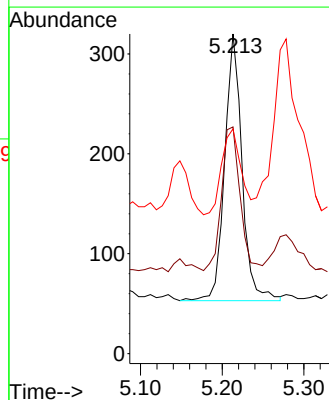
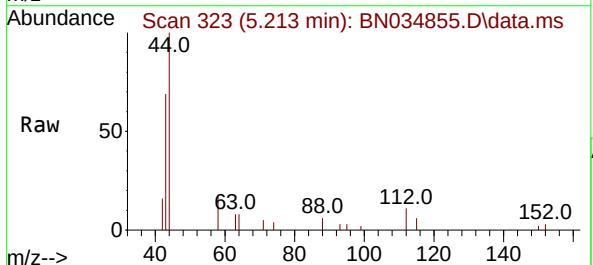
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

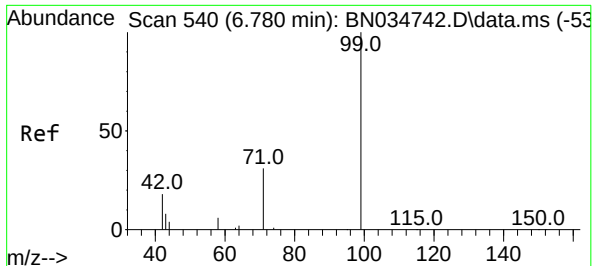
Tgt Ion:152 Resp: 6889
Ion Ratio Lower Upper
152 100
150 155.8 124.9 187.3
115 61.7 50.2 75.2



#4
2-Fluorophenol
Concen: 0.019 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion:112 Resp: 392
Ion Ratio Lower Upper
112 100
64 57.4 44.9 67.3
63 36.0 23.5 35.3#

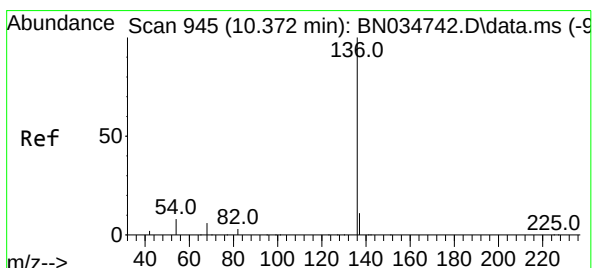
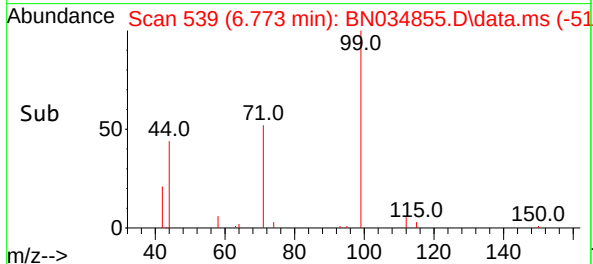
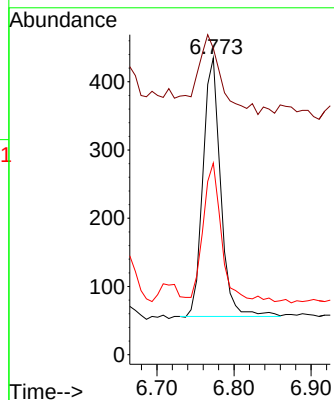
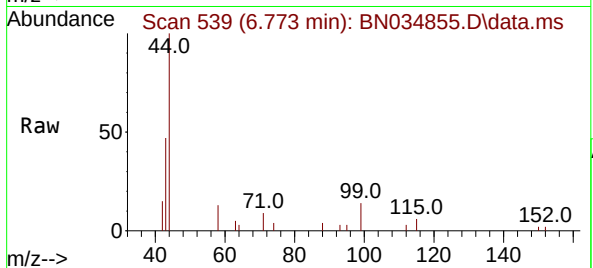




#5
Phenol-d6
Concen: 0.022 ng
RT: 6.773 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

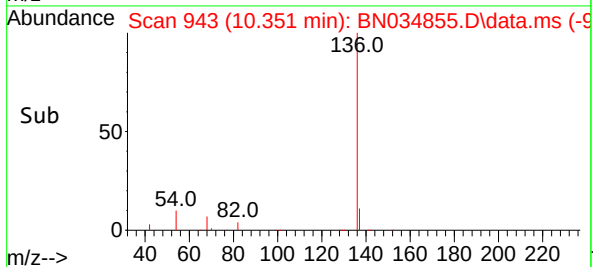
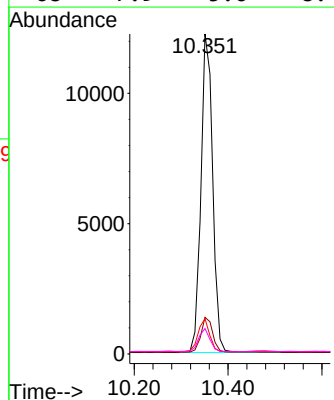
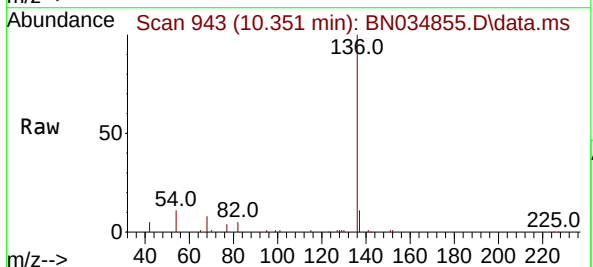
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

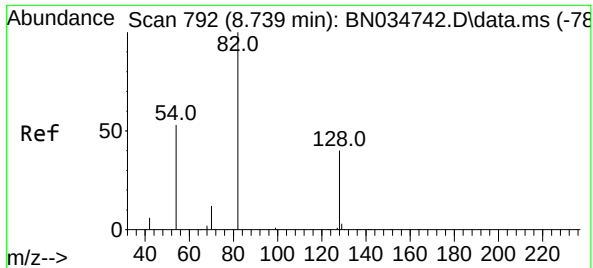
Tgt Ion: 99 Resp: 604
Ion Ratio Lower Upper
99 100
42 42.1 15.9 23.9#
71 51.7 24.3 36.5#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion: 136 Resp: 21222
Ion Ratio Lower Upper
136 100
137 11.4 9.2 13.8
54 11.1 7.0 10.4#
68 7.9 5.6 8.4

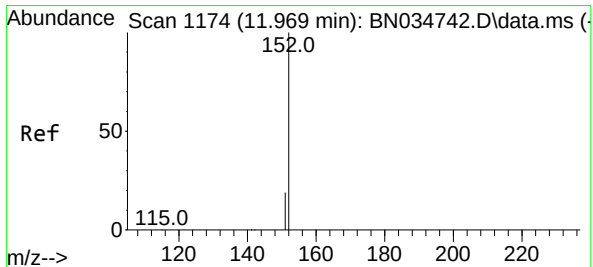
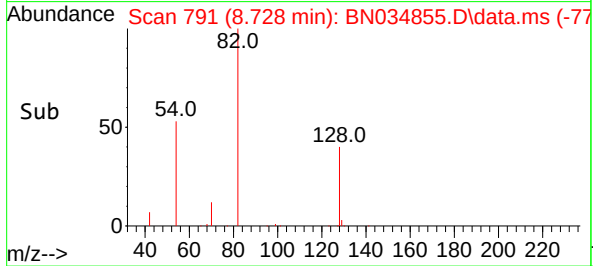
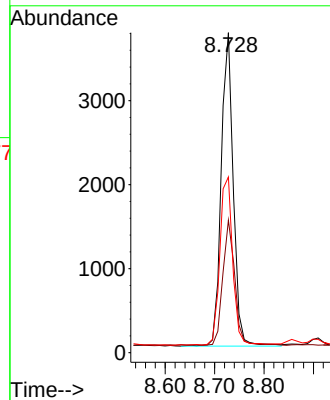
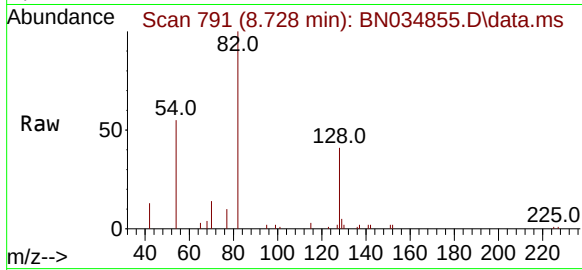




#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

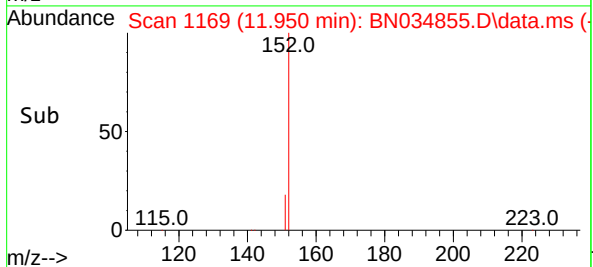
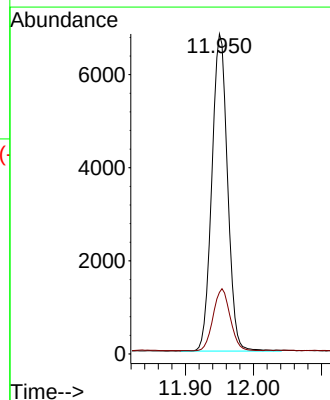
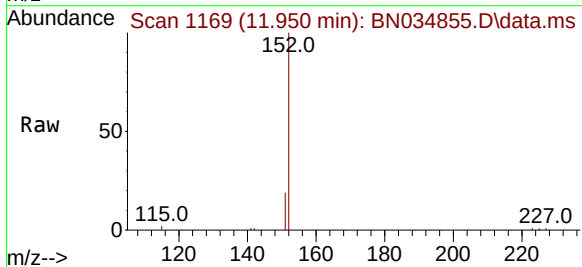
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

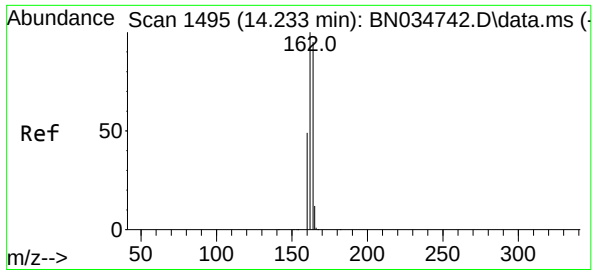
Tgt Ion:	82	Resp:	6325
Ion Ratio	Lower	Upper	
82	100		
128	41.4	33.7	50.5
54	54.9	44.4	66.6



#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion:	152	Resp:	10932
Ion Ratio	Lower	Upper	
152	100		
151	21.2	16.6	24.8

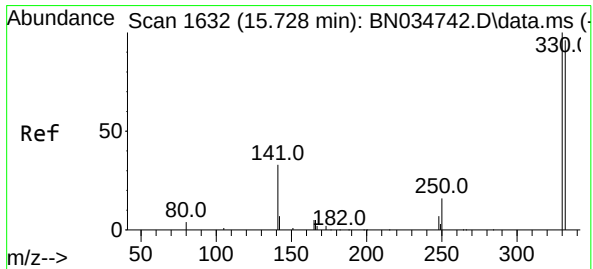
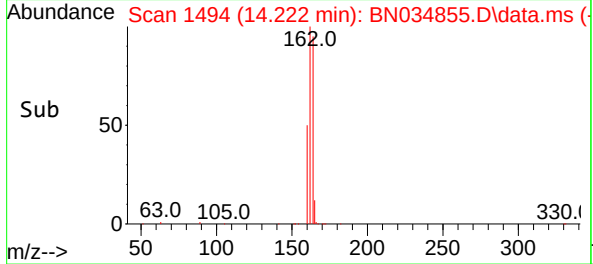
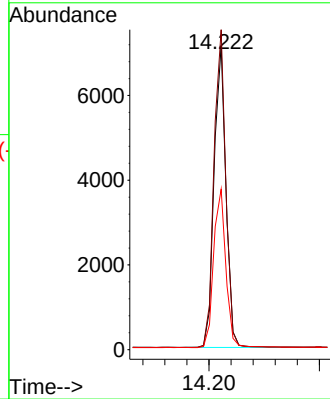
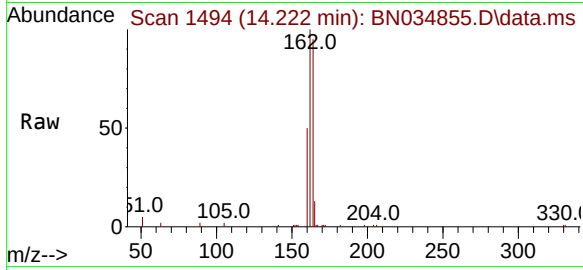




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

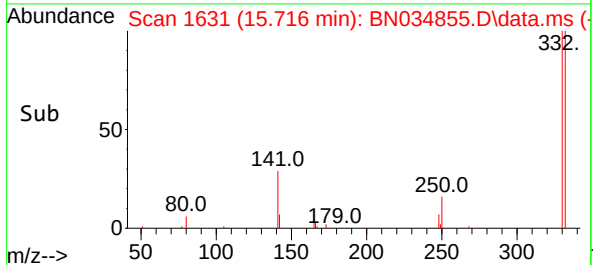
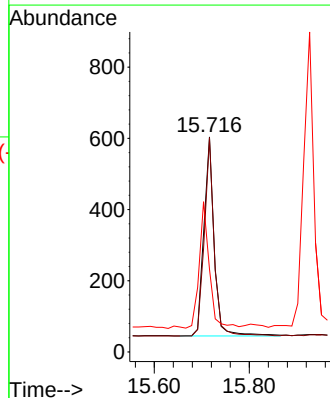
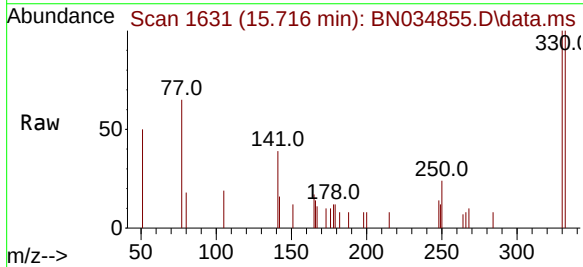
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

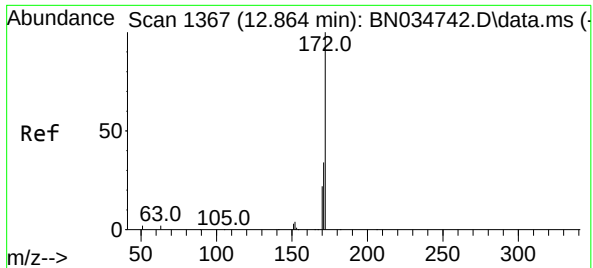
Tgt Ion:164 Resp: 10585
Ion Ratio Lower Upper
164 100
162 105.4 84.3 126.5
160 52.9 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.163 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion:330 Resp: 850
Ion Ratio Lower Upper
330 100
332 94.2 77.8 116.6
141 61.5 41.0 61.4#

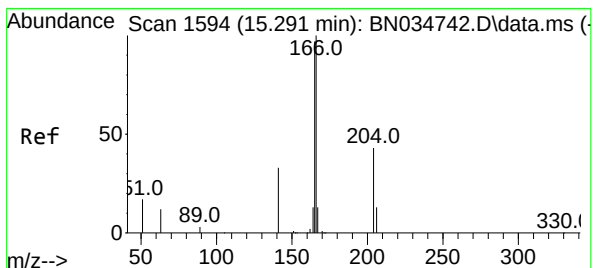
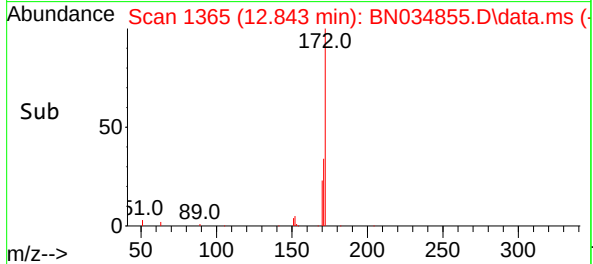
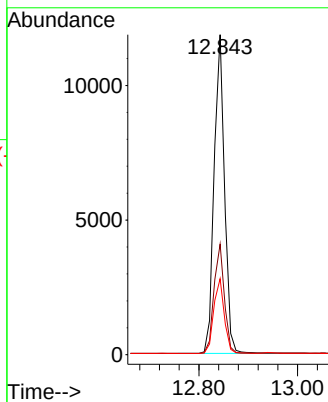
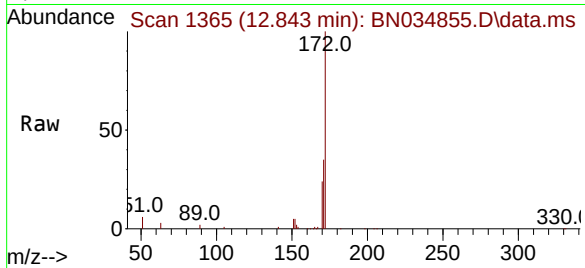




#15
2-Fluorobiphenyl
Concen: 0.416 ng
RT: 12.843 min Scan# 1365
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

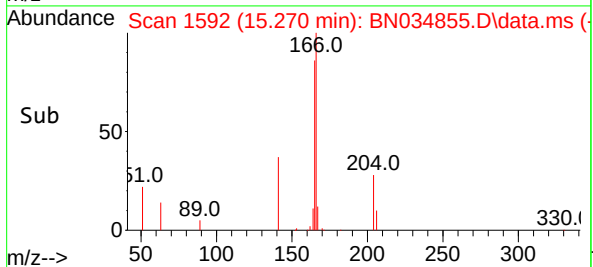
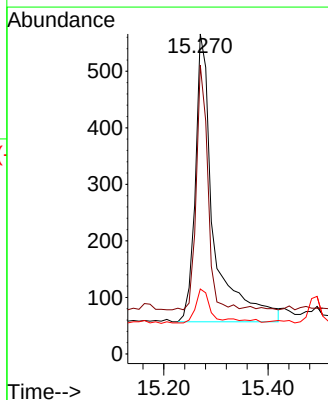
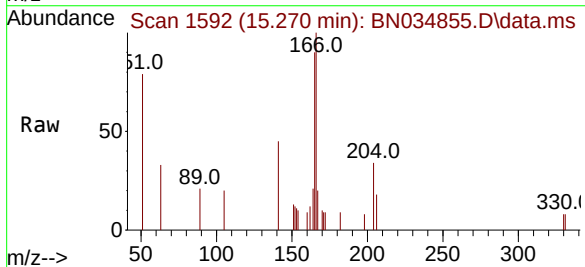
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

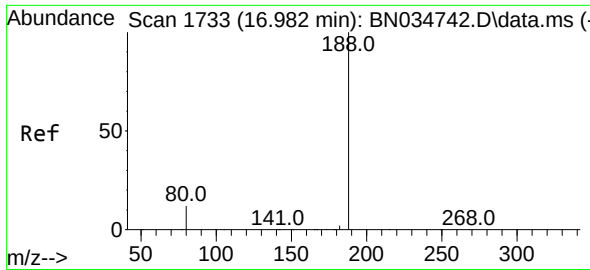
Tgt Ion:172 Resp: 17335
Ion Ratio Lower Upper
172 100
171 34.5 27.2 40.8
170 23.7 18.0 27.0



#18
Fluorene
Concen: 0.029 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion:166 Resp: 1259
Ion Ratio Lower Upper
166 100
165 52.8 78.5 117.7#
167 8.7 10.8 16.2#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.970 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN034855.D

Acq: 05 Nov 2024 00:33

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-478-480

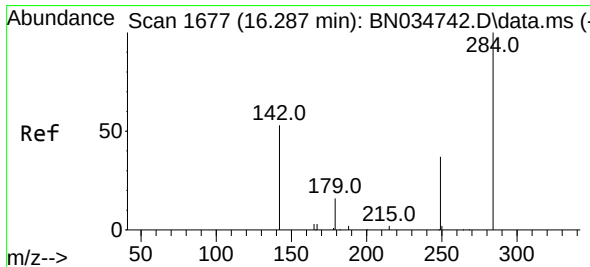
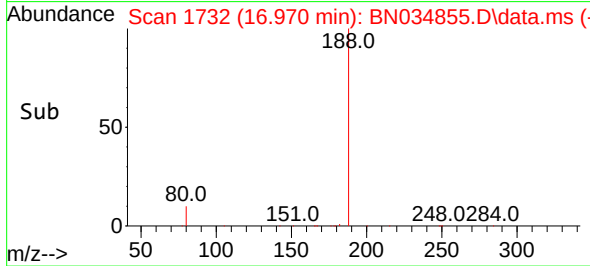
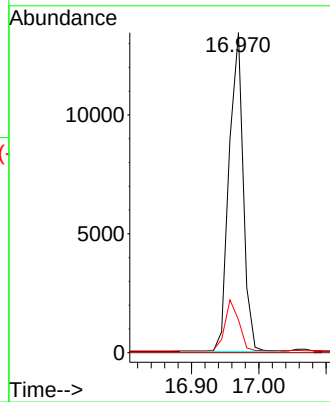
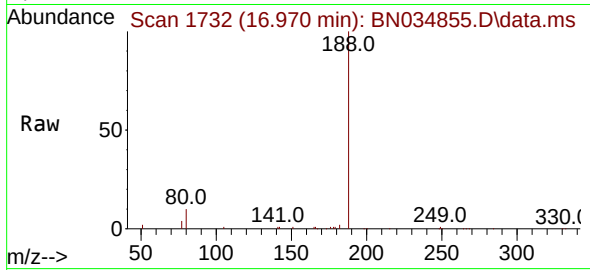
Tgt Ion:188 Resp: 19498

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 9.8 14.6



#22

Hexachlorobenzene

Concen: 0.022 ng

RT: 16.275 min Scan# 1676

Delta R.T. -0.000 min

Lab File: BN034855.D

Acq: 05 Nov 2024 00:33

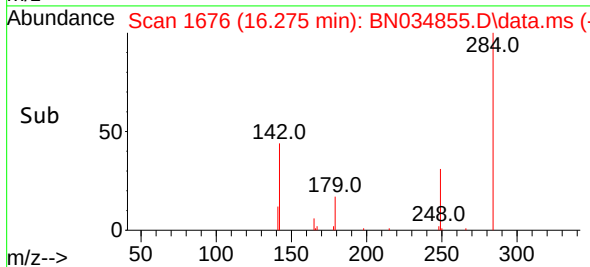
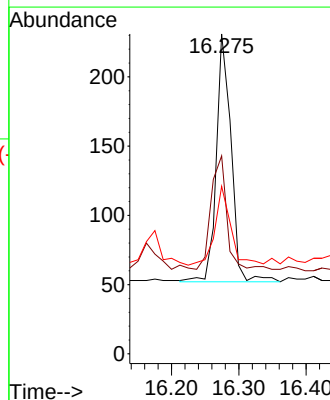
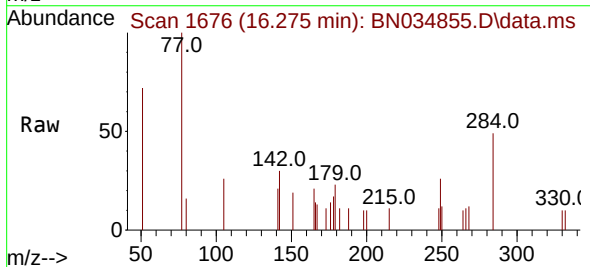
Tgt Ion:284 Resp: 272

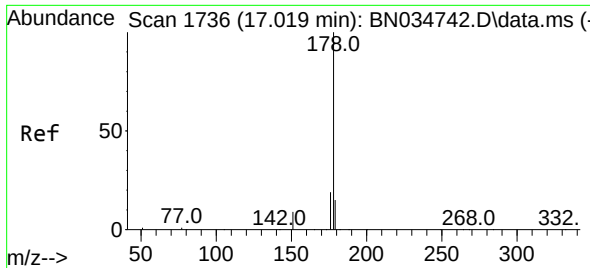
Ion Ratio Lower Upper

284 100

142 50.0 35.4 53.0

249 34.2 25.7 38.5

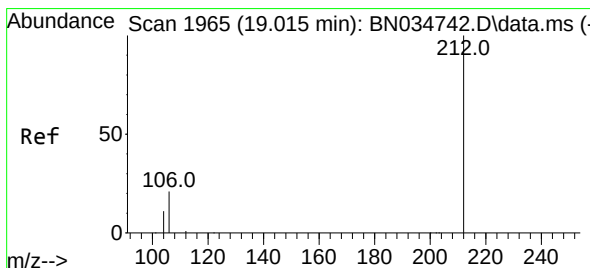
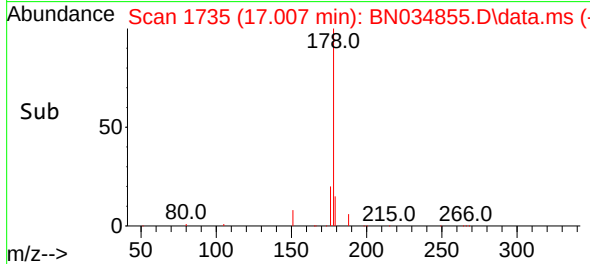
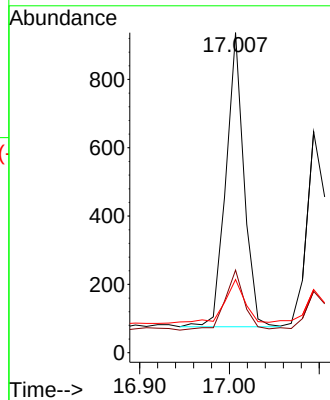
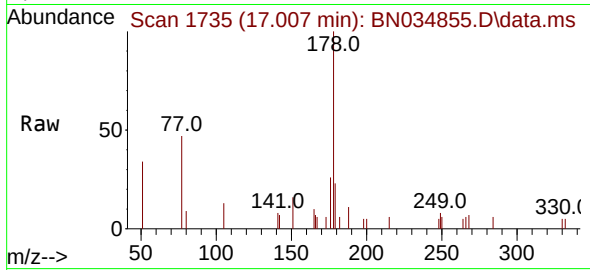




#25
Phenanthrene
Concen: 0.021 ng
RT: 17.007 min Scan# 1735
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

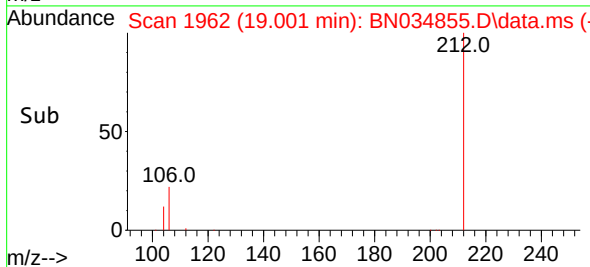
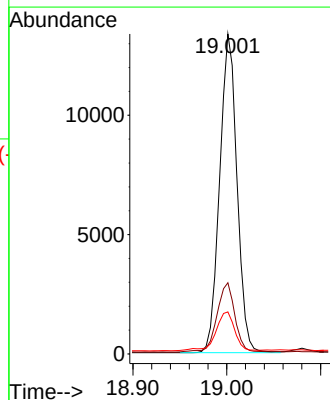
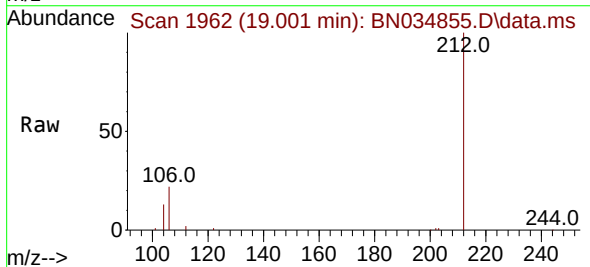
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

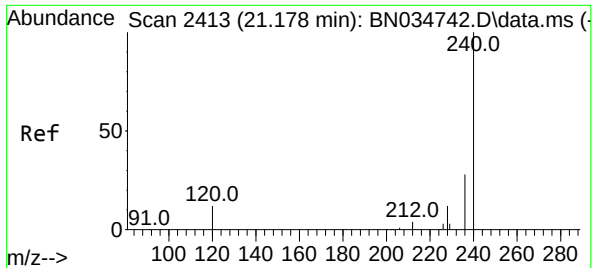
Tgt Ion:178 Resp: 1203
Ion Ratio Lower Upper
178 100
176 21.9 15.4 23.0
179 17.0 12.2 18.4



#27
Fluoranthene-d10
Concen: 0.375 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion:212 Resp: 17145
Ion Ratio Lower Upper
212 100
106 22.3 16.1 24.1
104 13.4 9.2 13.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BN034855.D

Acq: 05 Nov 2024 00:33

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-478-480

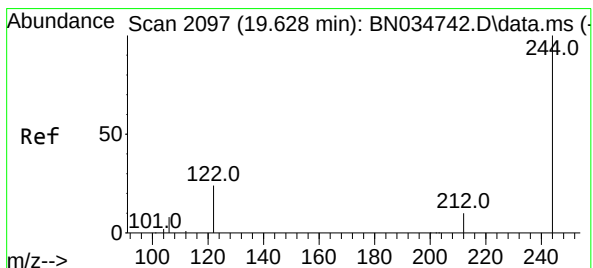
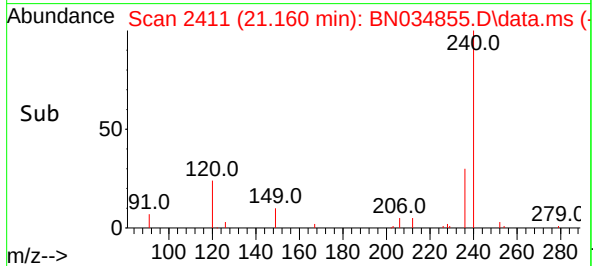
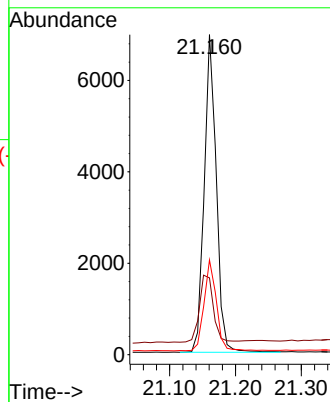
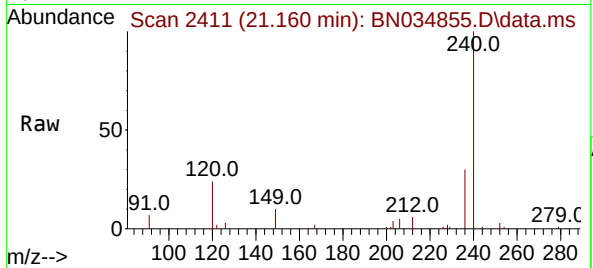
Tgt Ion:240 Resp: 8880

Ion Ratio Lower Upper

240 100

120 24.0 11.5 17.3#

236 29.6 23.2 34.8



#31

Terphenyl-d14

Concen: 0.615 ng

RT: 19.614 min Scan# 2094

Delta R.T. -0.000 min

Lab File: BN034855.D

Acq: 05 Nov 2024 00:33

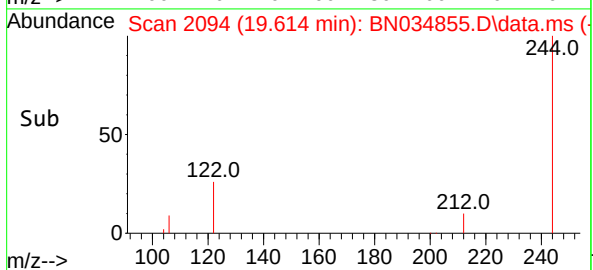
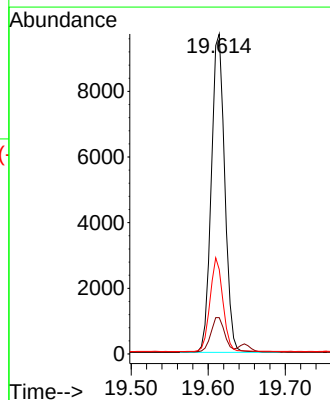
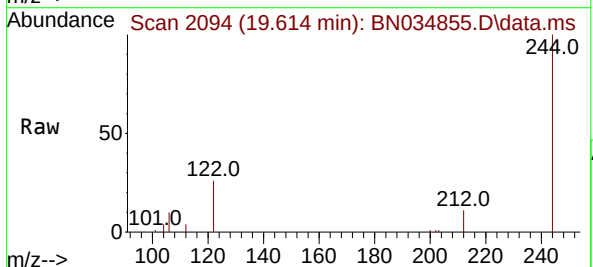
Tgt Ion:244 Resp: 11727

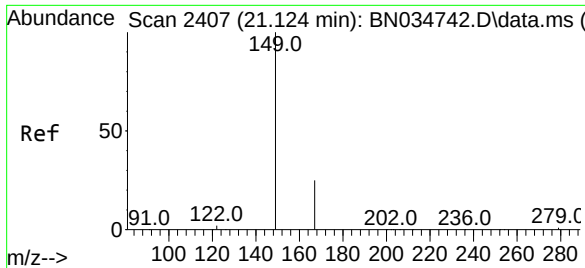
Ion Ratio Lower Upper

244 100

212 11.3 8.2 12.4

122 26.4 19.8 29.6

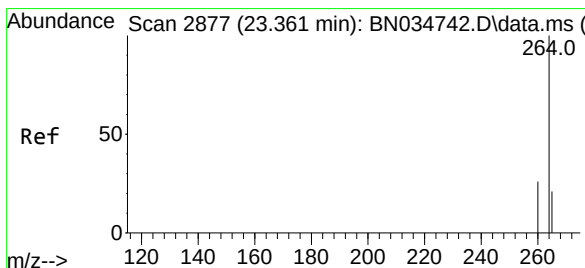
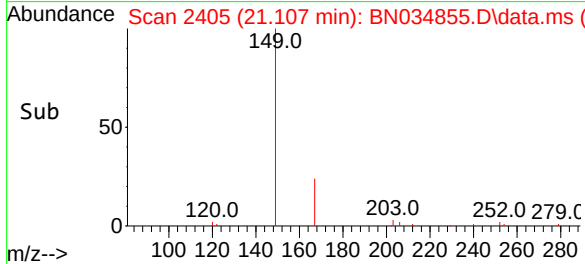
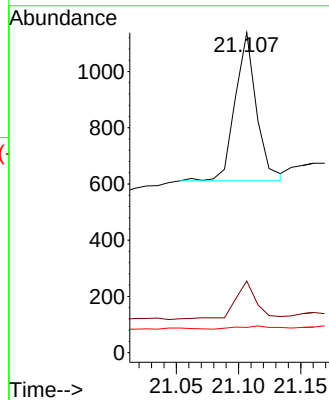
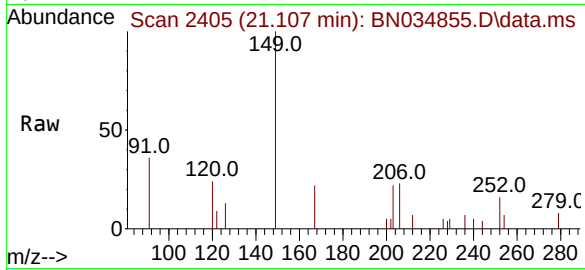




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.021 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

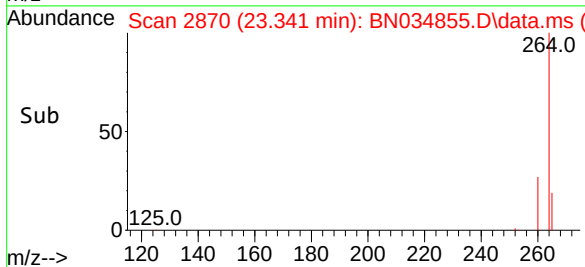
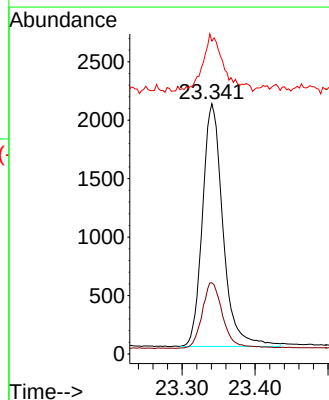
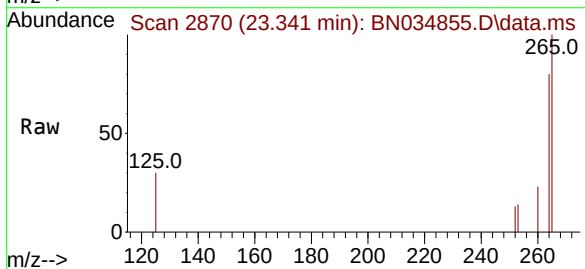
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

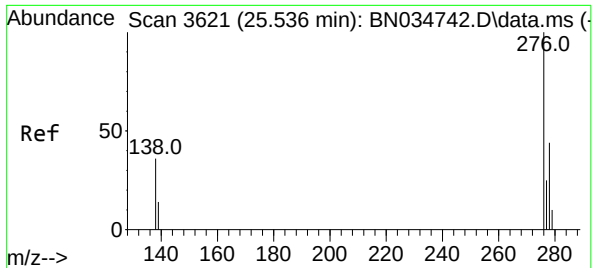
Tgt Ion:149 Resp: 629
Ion Ratio Lower Upper
149 100
167 24.2 20.6 30.8
279 3.7 1.5 2.3#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 2870
Delta R.T. 0.006 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion:264 Resp: 4054
Ion Ratio Lower Upper
264 100
260 28.4 21.5 32.3
265 125.0 47.5 71.3#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.026 ng

RT: 25.510 min Scan# 3612

Delta R.T. 0.006 min

Lab File: BN034855.D

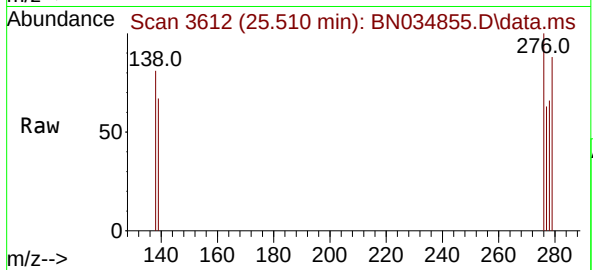
Acq: 05 Nov 2024 00:33

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-478-480



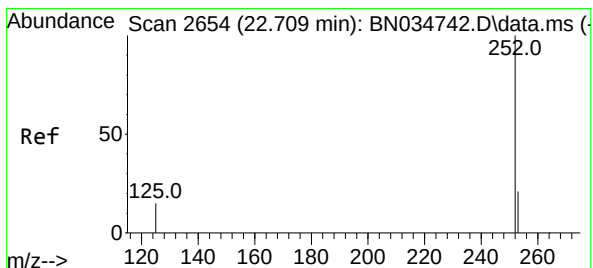
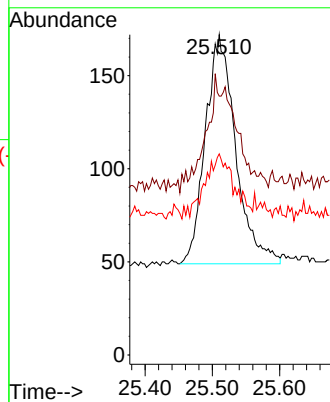
Tgt Ion:276 Resp: 384

Ion Ratio Lower Upper

276 100

138 17.7 31.5 47.3#

277 26.0 19.7 29.5



#37

Benzo(b)fluoranthene

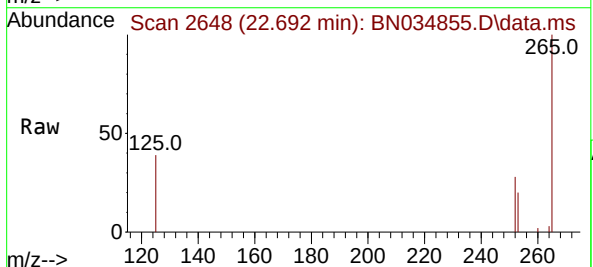
Concen: 0.029 ng

RT: 22.692 min Scan# 2648

Delta R.T. 0.003 min

Lab File: BN034855.D

Acq: 05 Nov 2024 00:33



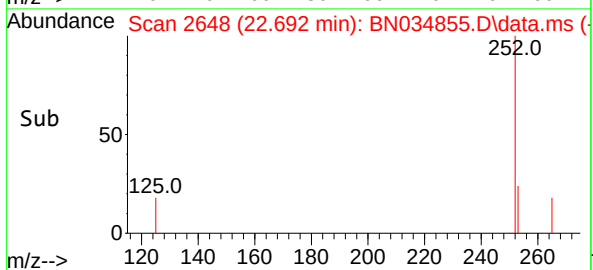
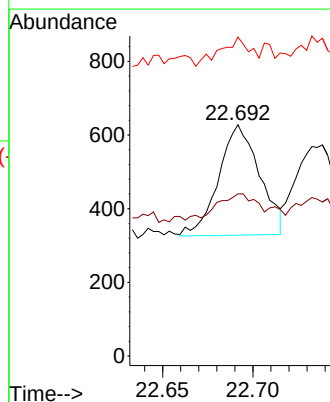
Tgt Ion:252 Resp: 473

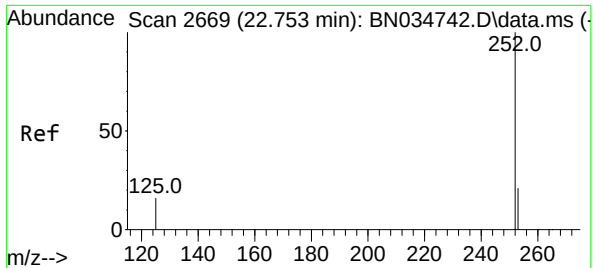
Ion Ratio Lower Upper

252 100

253 70.1 19.7 29.5#

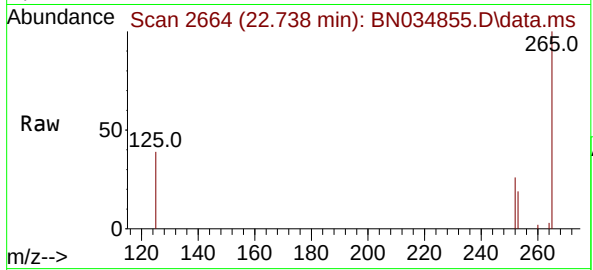
125 137.9 17.1 25.7#



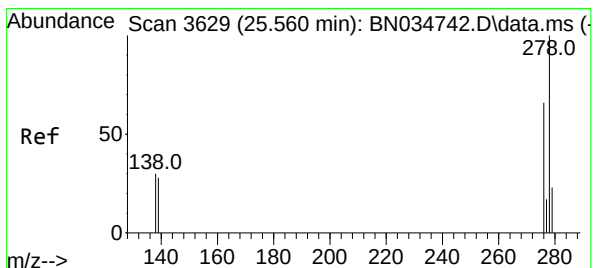
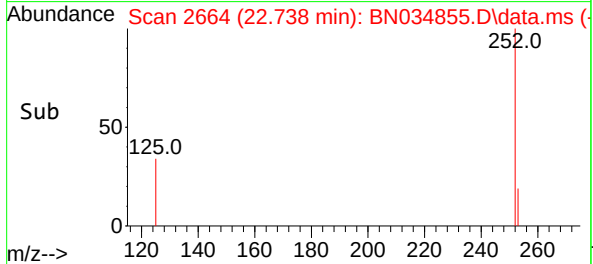
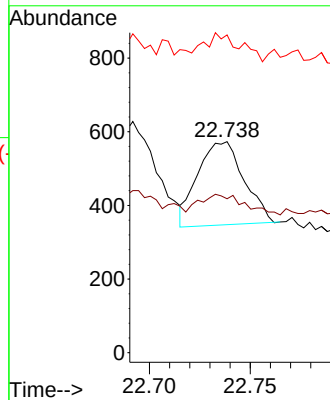


#38
Benzo(k)fluoranthene
Concen: 0.023 ng
RT: 22.738 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-478-480

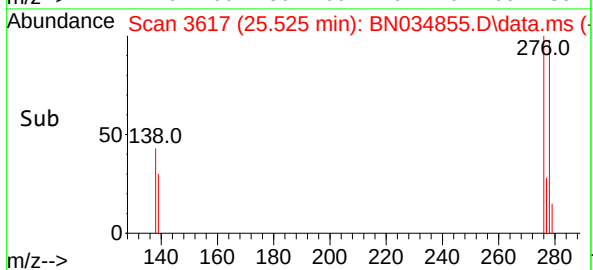
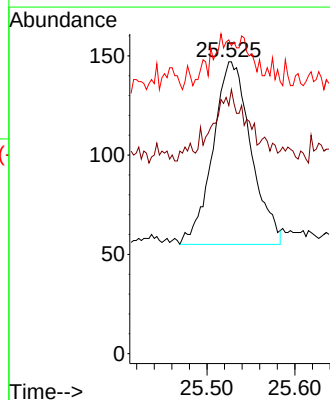
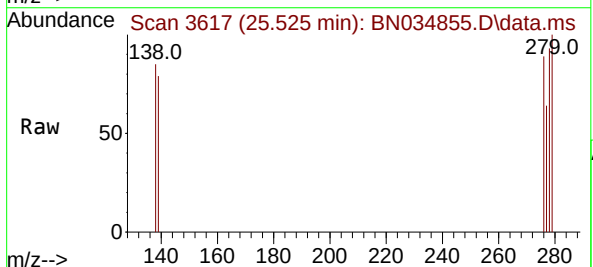


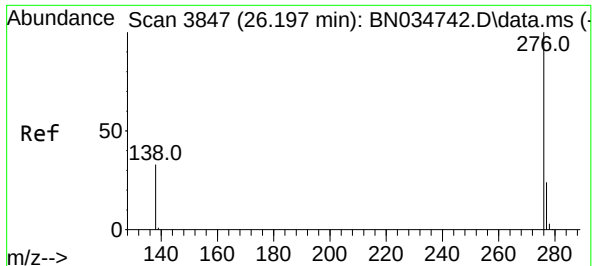
Tgt Ion:252 Resp: 361
Ion Ratio Lower Upper
252 100
253 72.9 19.8 29.6#
125 150.6 18.2 27.2#



#40
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 25.525 min Scan# 3617
Delta R.T. -0.000 min
Lab File: BN034855.D
Acq: 05 Nov 2024 00:33

Tgt Ion:278 Resp: 277
Ion Ratio Lower Upper
278 100
139 85.0 24.9 37.3#
279 107.5 21.0 31.4#





#41

Benzo(g,h,i)perylene

Concen: 0.024 ng

RT: 26.168 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN034855.D

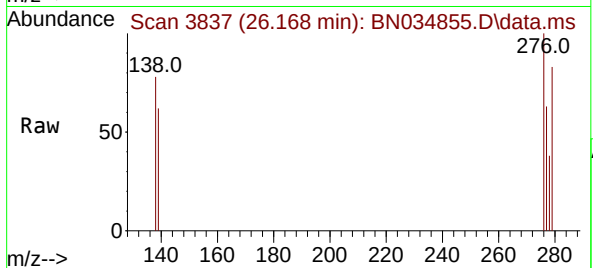
Acq: 05 Nov 2024 00:33

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-478-480



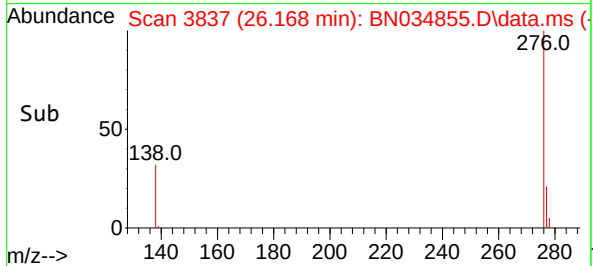
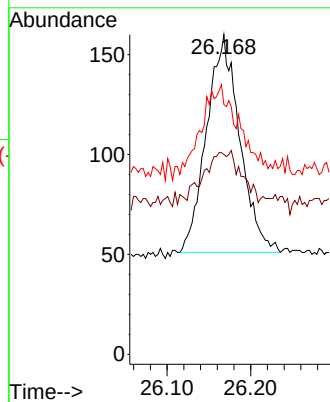
Tgt Ion:276 Resp: 300

Ion Ratio Lower Upper

276 100

277 62.5 20.2 30.2#

138 78.1 28.7 43.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	10/28/24
Project:	CTO WE13	Date Received:	10/28/24
Client Sample ID:	BP-VPB-190-GW-518-520	SDG No.:	P4600
Lab Sample ID:	P4600-07	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	830 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034856.D	1	10/29/24 12:50	11/05/24 01:09	PB164511

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24	U	0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	58 - 132		138%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6530		7.589			
1146-65-2	Naphthalene-d8	20400		10.351			
15067-26-2	Acenaphthene-d10	10500		14.222			
1517-22-2	Phenanthrene-d10	19900		16.97			
1719-03-5	Chrysene-d12	10900		21.16			
1520-96-3	Perylene-d12	5700		23.338			

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\BN110424\
 Data File : BN034856.D
 Acq On : 05 Nov 2024 01:09
 Operator : RC/JU
 Sample : P4600-07
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-190-GW-518-520

Quant Time: Nov 05 01:54:22 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

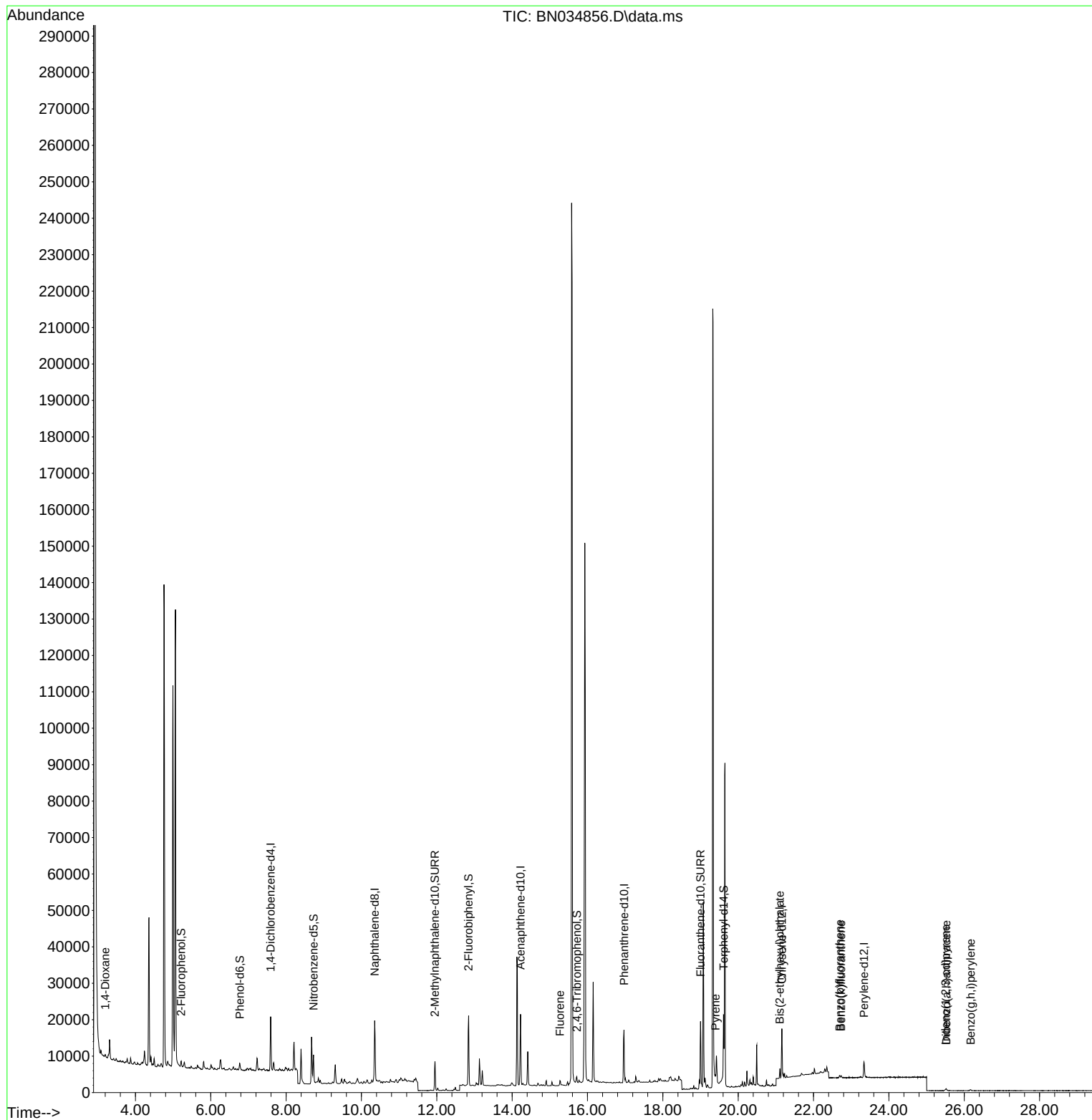
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6525	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	20443	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	10522	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	19872	0.400	ng	0.00
29) Chrysene-d12	21.160	240	10871	0.400	ng	# 0.00
35) Perylene-d12	23.338	264	5696	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1057	0.053	ng	0.00
5) Phenol-d6	6.773	99	1442	0.056	ng	0.00
8) Nitrobenzene-d5	8.728	82	6135	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	10407	0.352	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	903	0.174	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	16371	0.395	ng	0.00
27) Fluoranthene-d10	19.001	212	18119	0.389	ng	0.00
31) Terphenyl-d14	19.614	244	12935	0.554	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	447	0.062	ng	# 1
18) Fluorene	15.270	166	1973	0.045	ng	# 33
30) Pyrene	19.396	202	1149	0.020	ng	# 80
34) Bis(2-ethylhexyl)phtha...	21.107	149	2357	0.065	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.510	276	566	0.027	ng	# 74
37) Benzo(b)fluoranthene	22.692	252	733	0.032	ng	# 1
38) Benzo(k)fluoranthene	22.733	252	653	0.029	ng	# 1
40) Dibenzo(a,h)anthracene	25.525	278	389	0.024	ng	# 12
41) Benzo(g,h,i)perylene	26.171	276	474	0.027	ng	# 38

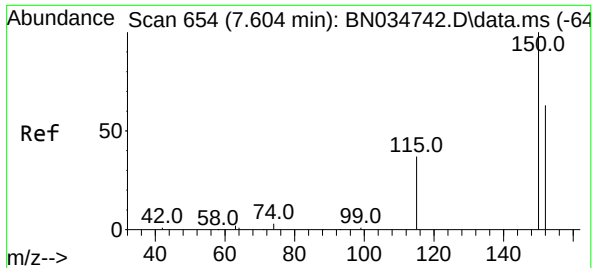
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034856.D
Acq On : 05 Nov 2024 01:09
Operator : RC/JU
Sample : P4600-07
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

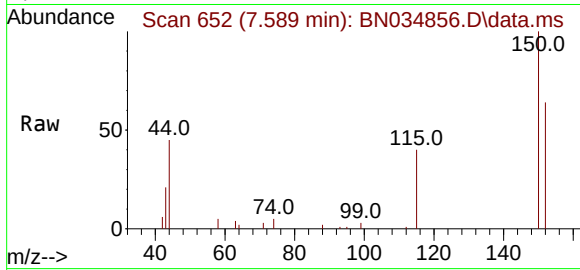
Quant Time: Nov 05 01:54:22 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration



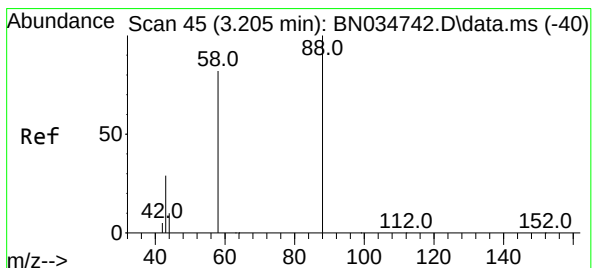
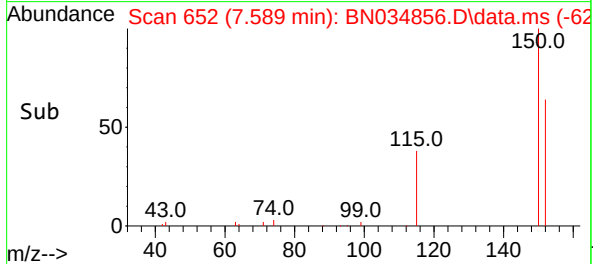
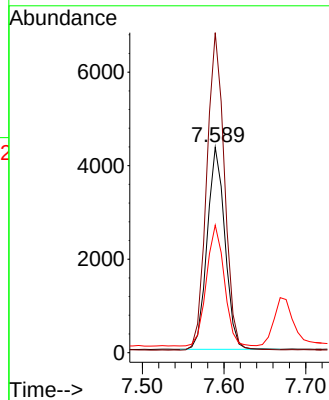


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

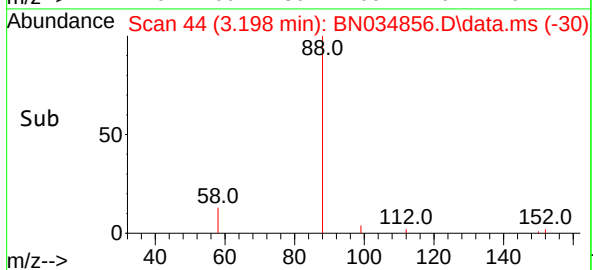
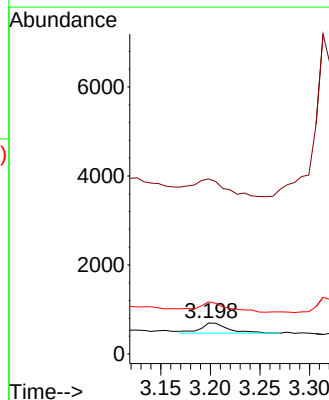
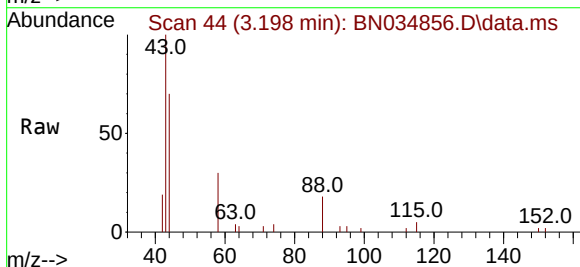


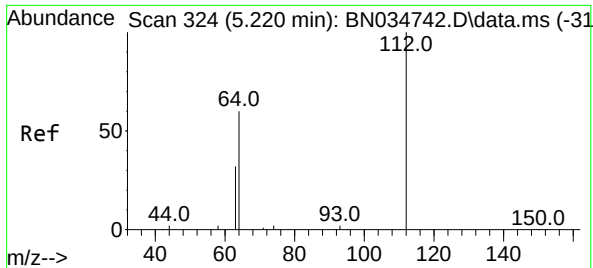
Tgt Ion: 152 Resp: 6525
Ion Ratio Lower Upper
152 100
150 155.8 124.9 187.3
115 62.1 50.2 75.2



#2
1,4-Dioxane
Concen: 0.062 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion: 88 Resp: 447
Ion Ratio Lower Upper
88 100
43 202.9 26.7 40.1#
58 91.1 59.3 88.9#





#4

2-Fluorophenol

Concen: 0.053 ng

RT: 5.213 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN034856.D

Acq: 05 Nov 2024 01:09

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-518-520

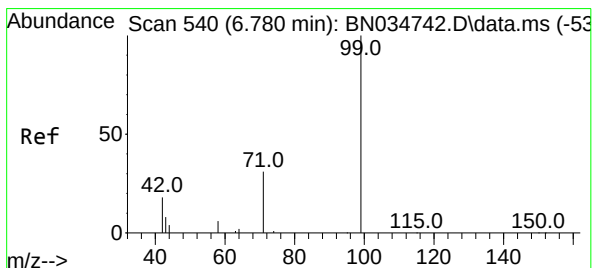
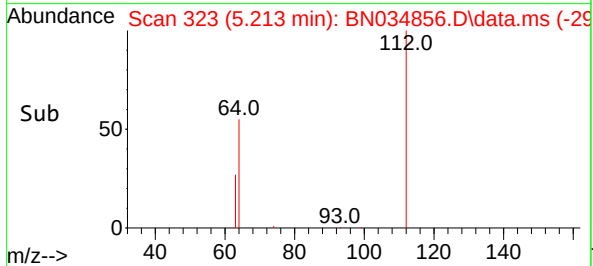
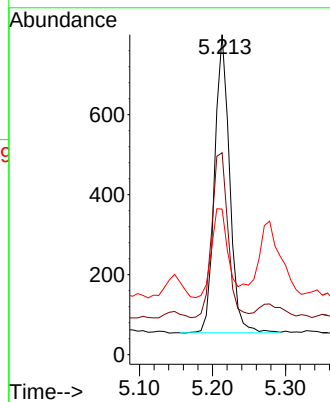
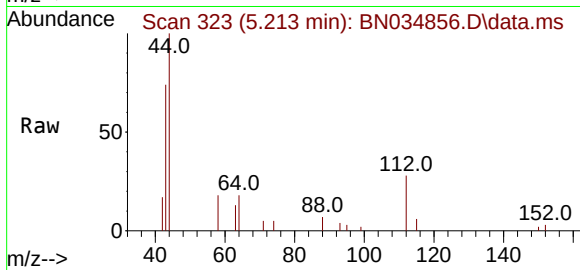
Tgt Ion:112 Resp: 1057

Ion Ratio Lower Upper

112 100

64 60.0 44.9 67.3

63 35.2 23.5 35.3



#5

Phenol-d6

Concen: 0.056 ng

RT: 6.773 min Scan# 539

Delta R.T. 0.007 min

Lab File: BN034856.D

Acq: 05 Nov 2024 01:09

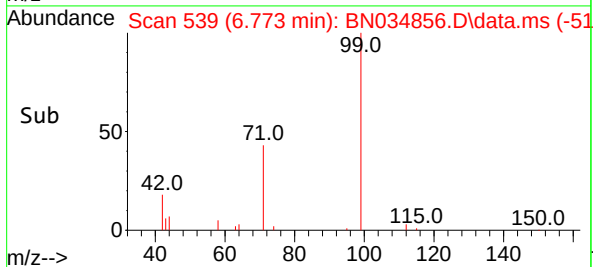
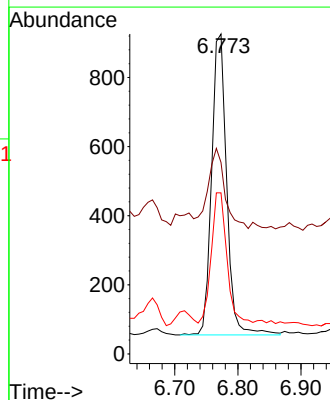
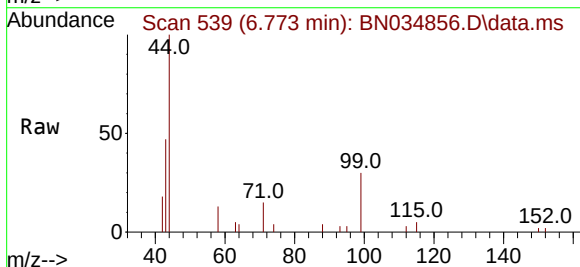
Tgt Ion: 99 Resp: 1442

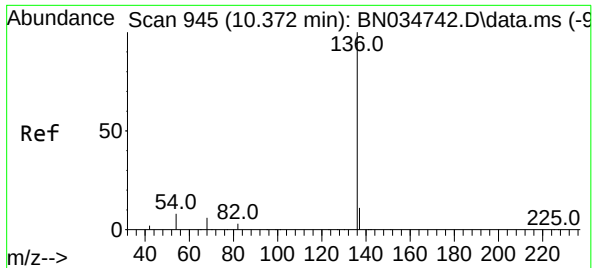
Ion Ratio Lower Upper

99 100

42 29.8 15.9 23.9#

71 44.3 24.3 36.5#

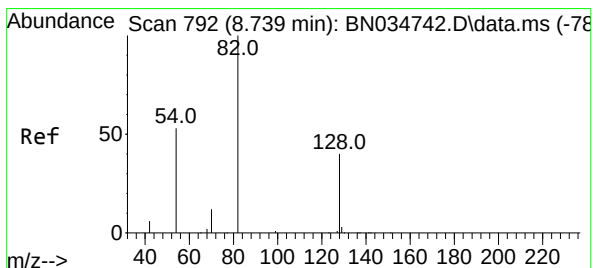
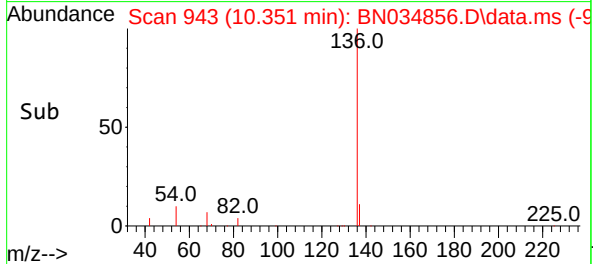
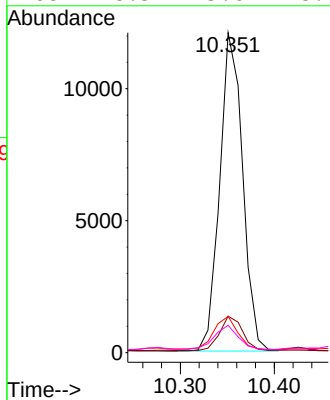
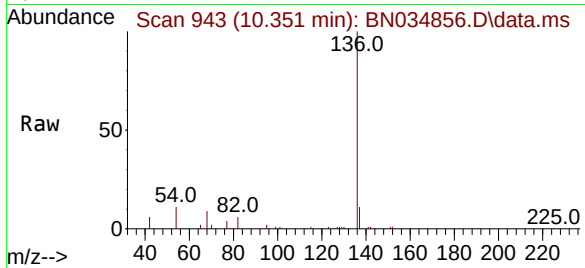




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

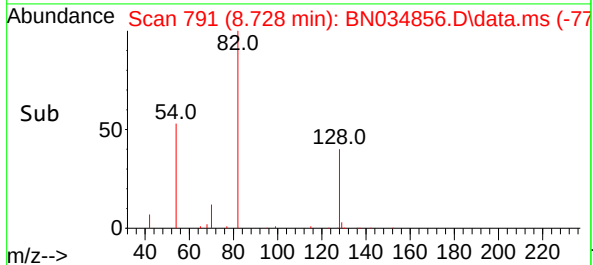
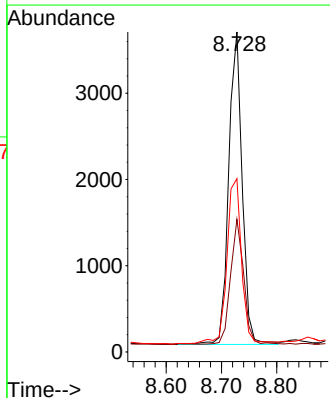
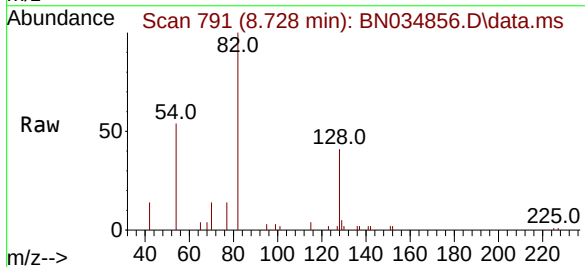
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

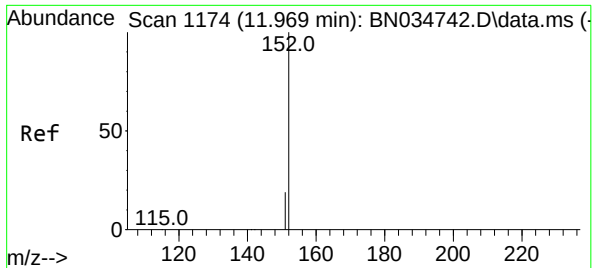
Tgt Ion:	136	Resp:	20443
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.2	13.8
54	11.4	7.0	10.4#
68	8.5	5.6	8.4#



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion:	82	Resp:	6135
Ion Ratio	Lower	Upper	
82	100		
128	41.5	33.7	50.5
54	54.2	44.4	66.6

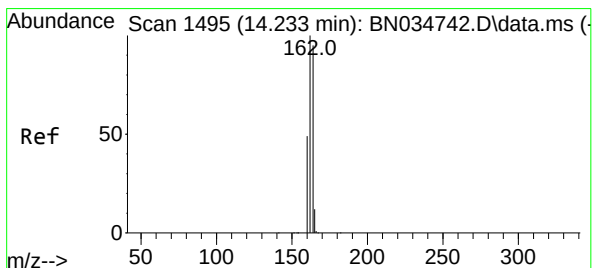
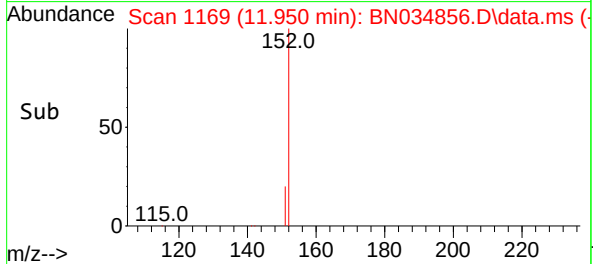
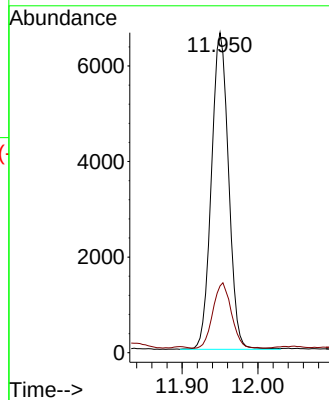
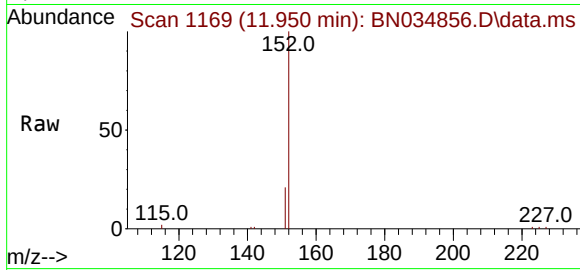




#11
2-Methylnaphthalene-d10
Concen: 0.352 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

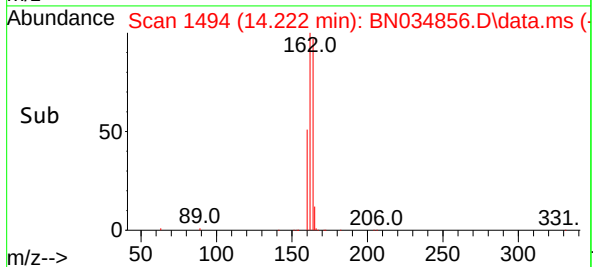
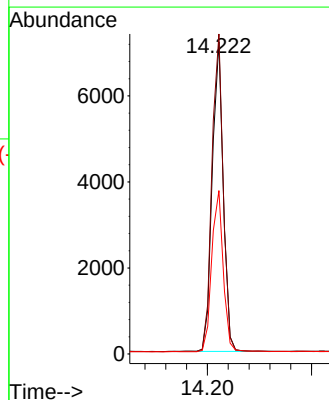
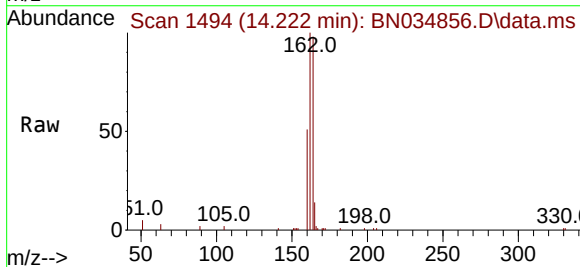
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

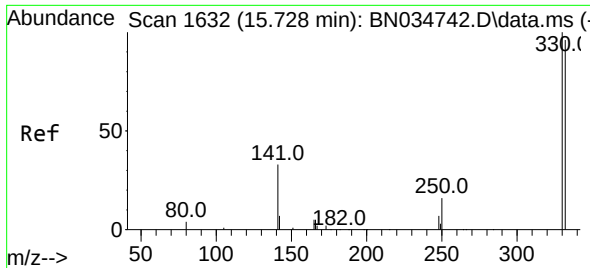
Tgt Ion:152 Resp: 10407
Ion Ratio Lower Upper
152 100
151 22.2 16.6 24.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion:164 Resp: 10522
Ion Ratio Lower Upper
164 100
162 102.5 84.3 126.5
160 52.3 41.7 62.5

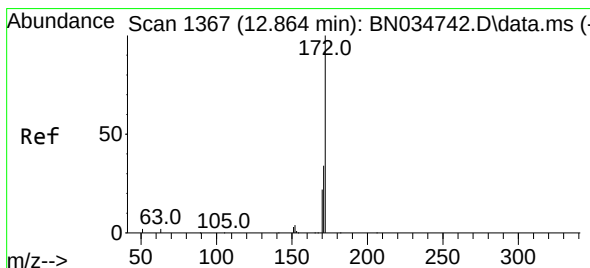
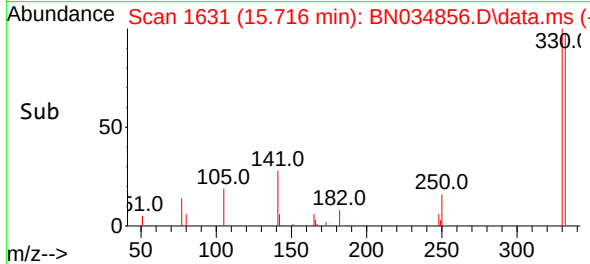
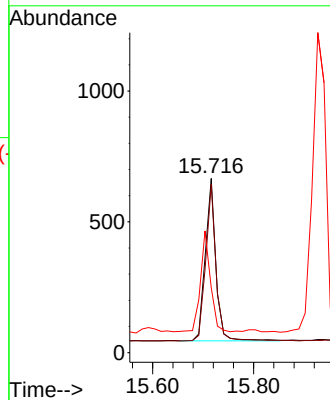
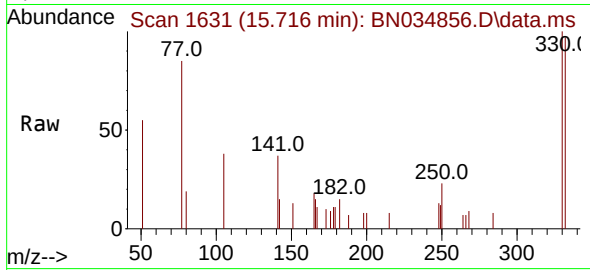




#14
2,4,6-Tribromophenol
Concen: 0.174 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

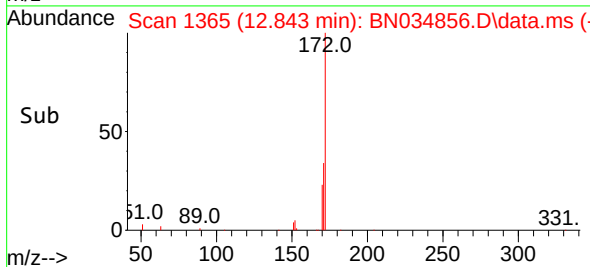
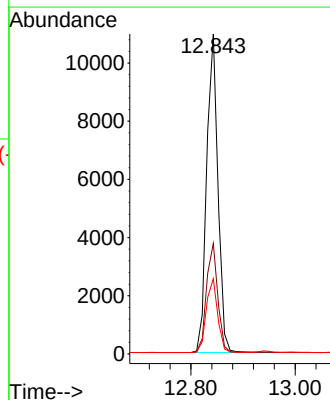
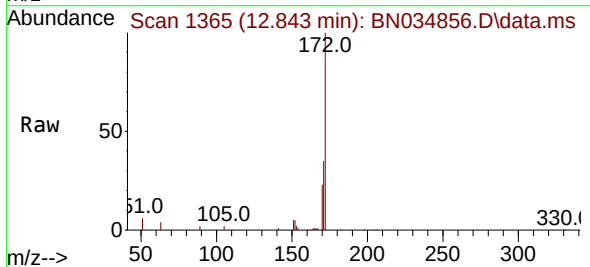
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

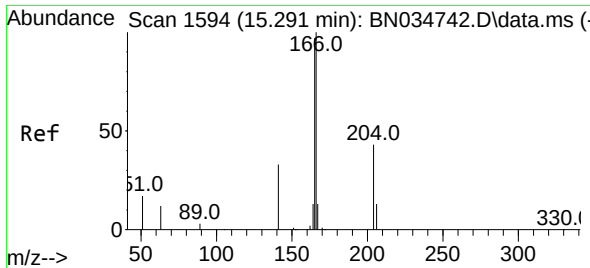
Tgt Ion:330 Resp: 903
Ion Ratio Lower Upper
330 100
332 93.7 77.8 116.6
141 60.4 41.0 61.4



#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.843 min Scan# 1365
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion:172 Resp: 16371
Ion Ratio Lower Upper
172 100
171 34.6 27.2 40.8
170 23.5 18.0 27.0

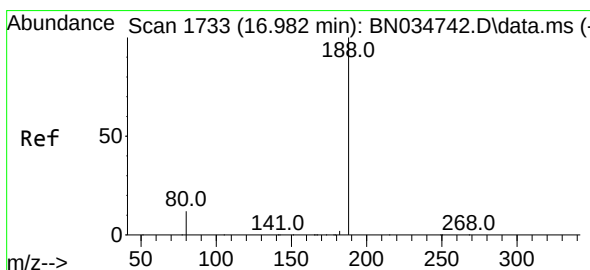
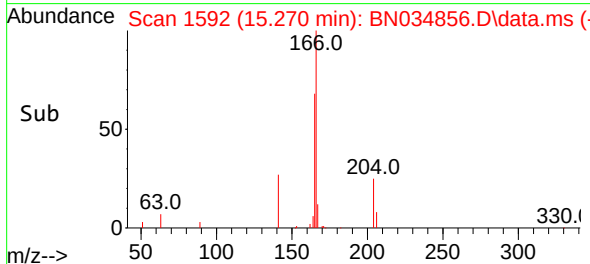
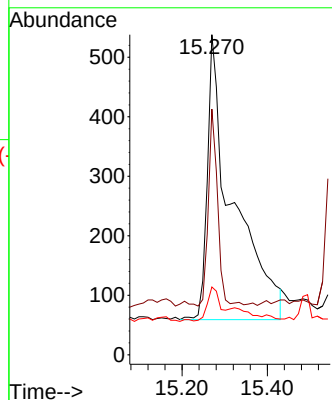
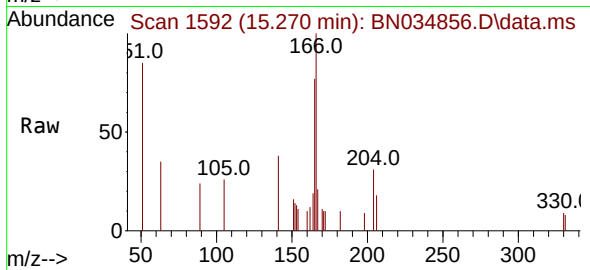




#18
Fluorene
Concen: 0.045 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

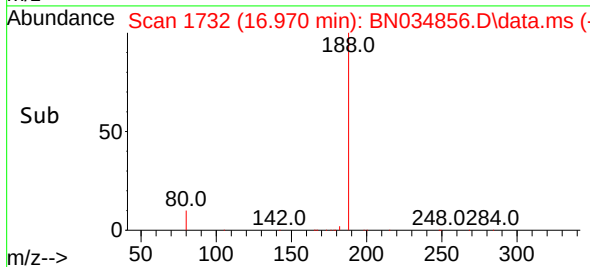
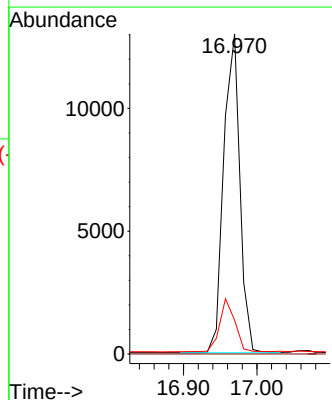
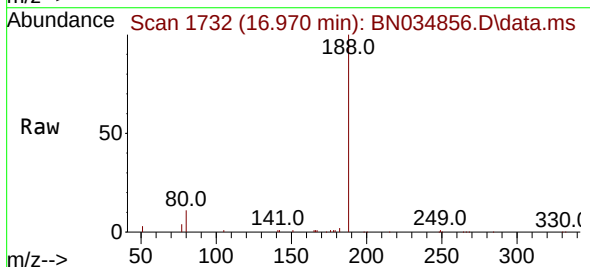
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

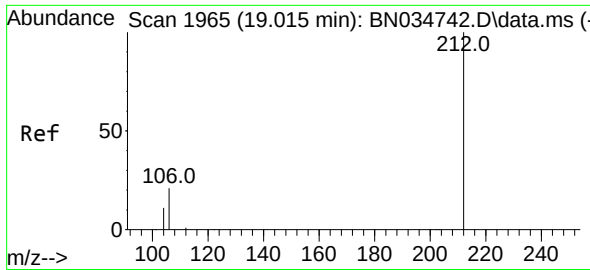
Tgt Ion:166 Resp: 1973
Ion Ratio Lower Upper
166 100
165 25.3 78.5 117.7#
167 5.8 10.8 16.2#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion:188 Resp: 19872
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.5 9.8 14.6





#27

Fluoranthene-d10

Concen: 0.389 ng

RT: 19.001 min Scan# 1962

Delta R.T. -0.000 min

Lab File: BN034856.D

Acq: 05 Nov 2024 01:09

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-518-520

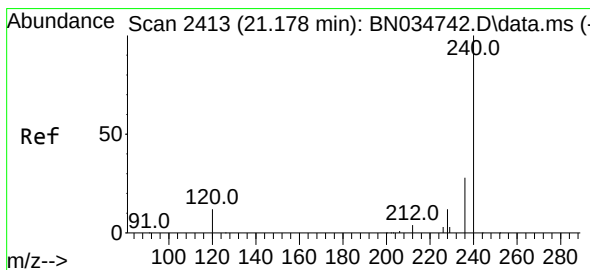
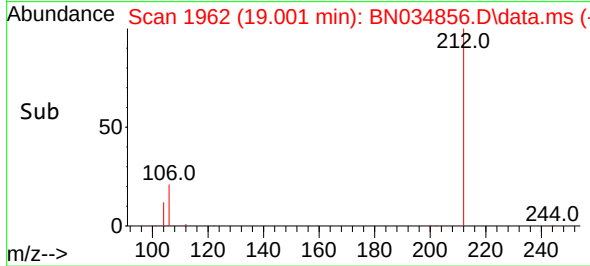
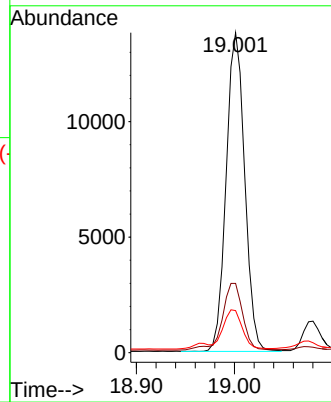
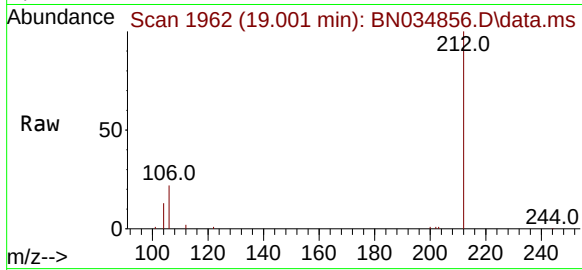
Tgt Ion:212 Resp: 18119

Ion Ratio Lower Upper

212 100

106 22.9 16.1 24.1

104 12.7 9.2 13.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BN034856.D

Acq: 05 Nov 2024 01:09

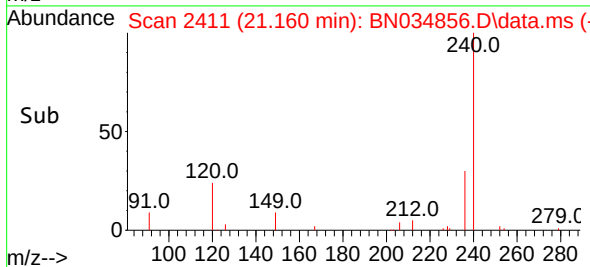
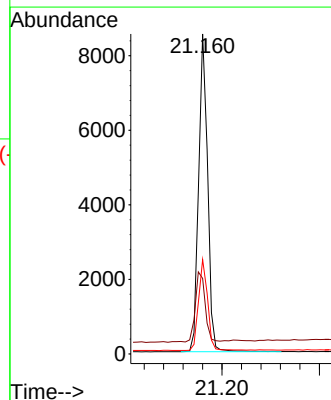
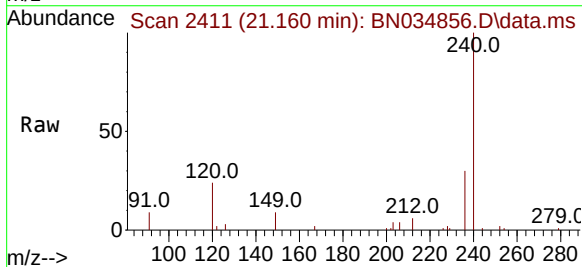
Tgt Ion:240 Resp: 10871

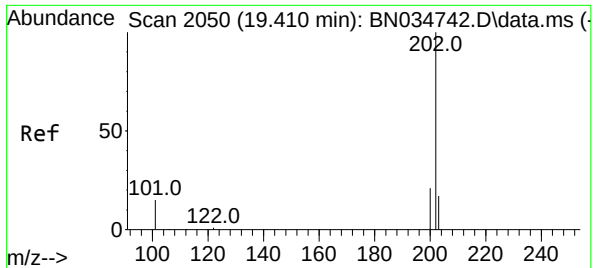
Ion Ratio Lower Upper

240 100

120 23.6 11.5 17.3#

236 29.5 23.2 34.8

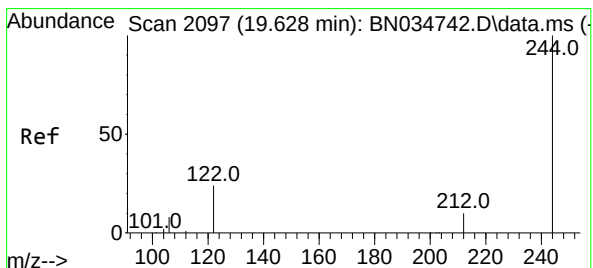
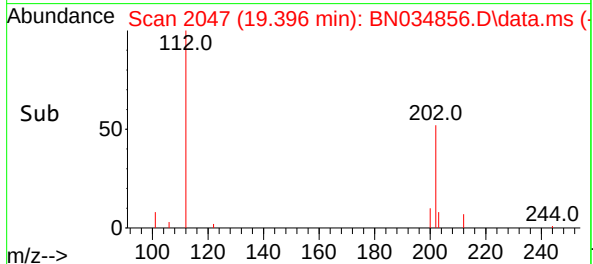
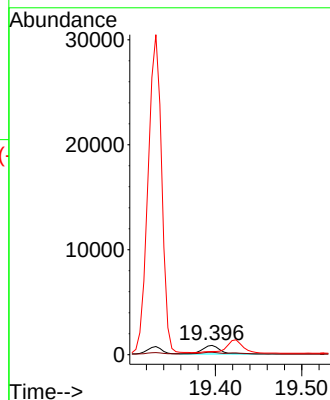
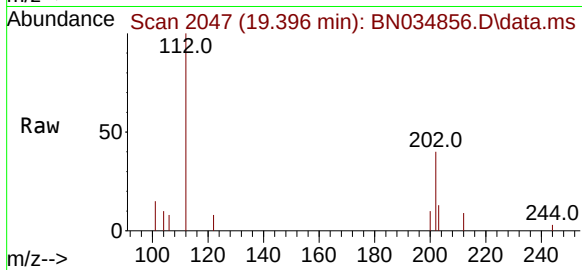




#30
Pyrene
Concen: 0.020 ng
RT: 19.396 min Scan# 2050
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

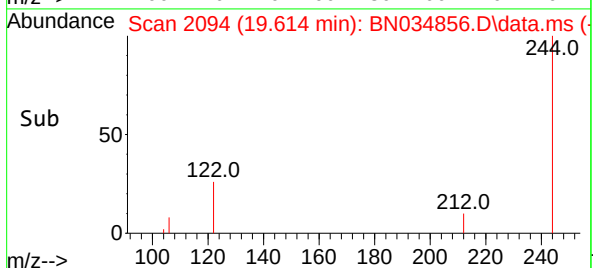
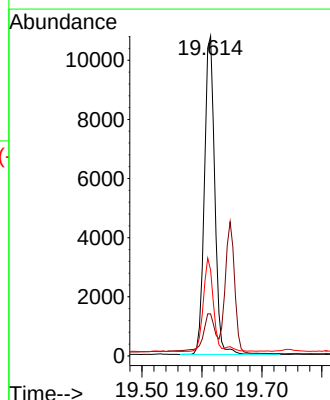
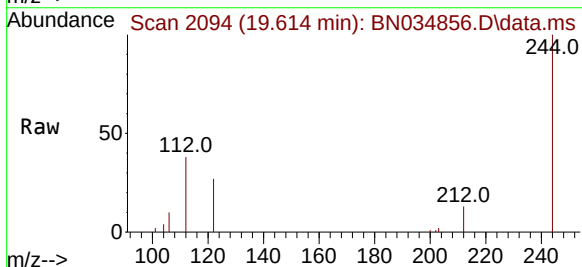
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

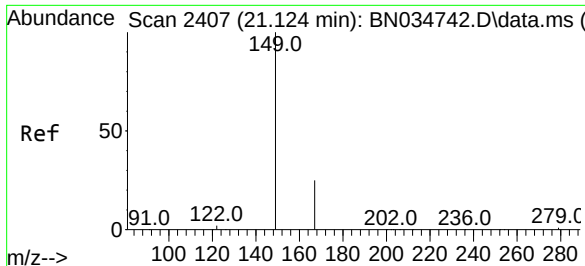
Tgt Ion:202 Resp: 1149
Ion Ratio Lower Upper
202 100
200 23.1 17.0 25.4
203 0.0 14.2 21.2#



#31
Terphenyl-d14
Concen: 0.554 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion:244 Resp: 12935
Ion Ratio Lower Upper
244 100
212 13.1 8.2 12.4#
122 26.9 19.8 29.6

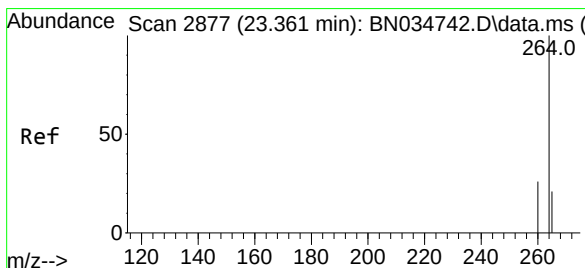
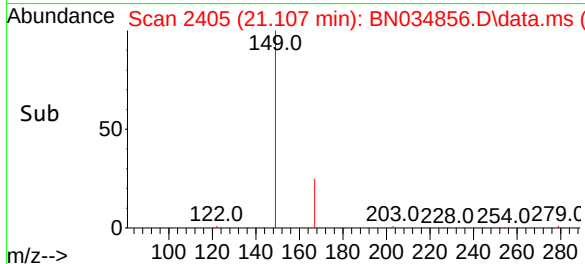
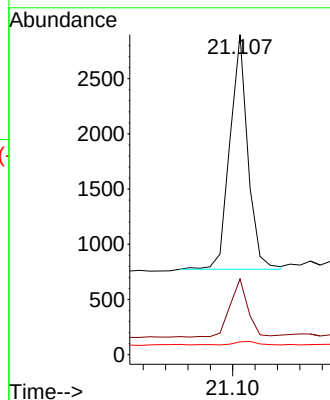
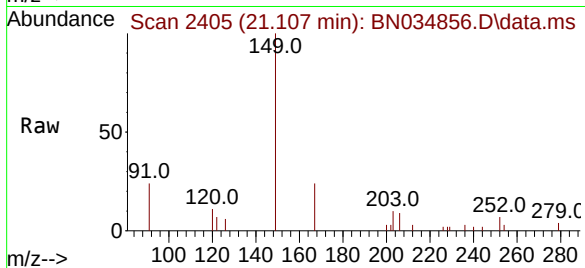




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.065 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

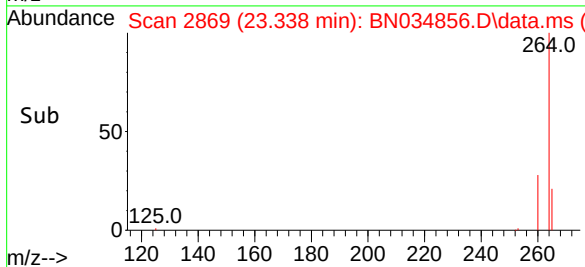
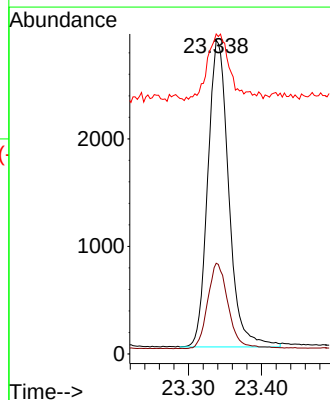
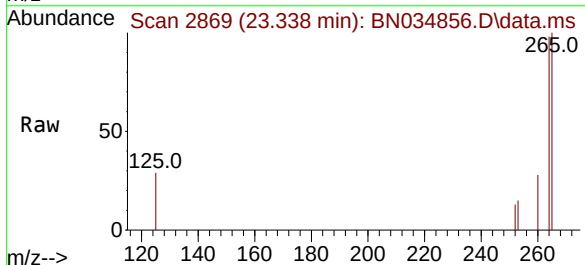
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

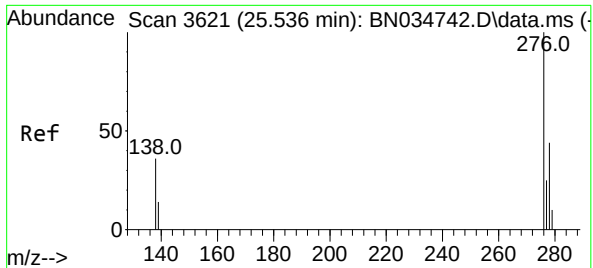
Tgt Ion:149 Resp: 2357
Ion Ratio Lower Upper
149 100
167 24.6 20.6 30.8
279 1.9 1.5 2.3



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.338 min Scan# 2869
Delta R.T. 0.003 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion:264 Resp: 5696
Ion Ratio Lower Upper
264 100
260 28.9 21.5 32.3
265 102.0 47.5 71.3#

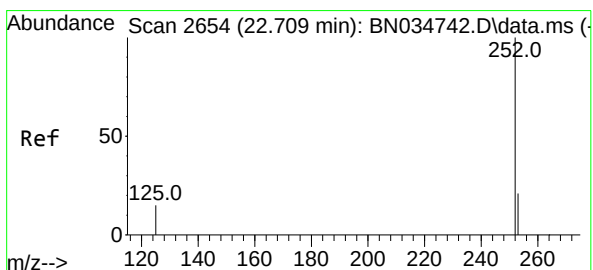
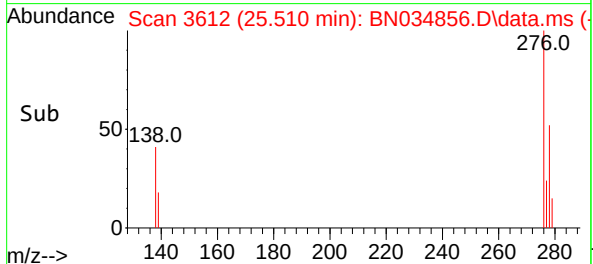
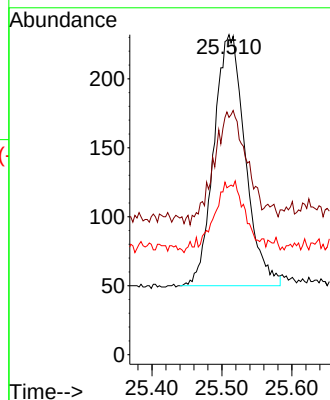
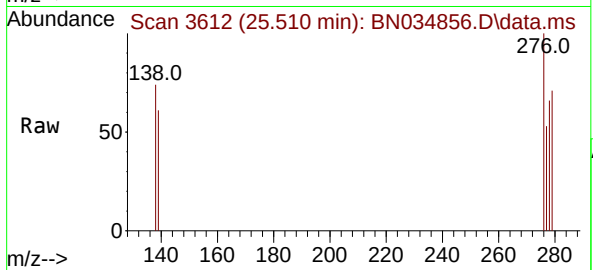




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.027 ng
RT: 25.510 min Scan# 3612
Delta R.T. 0.006 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

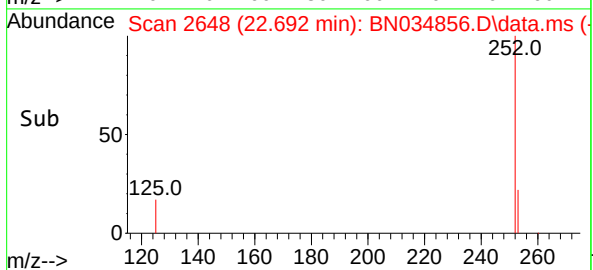
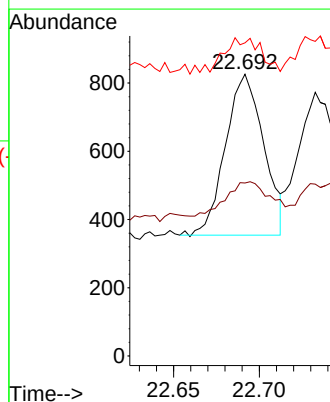
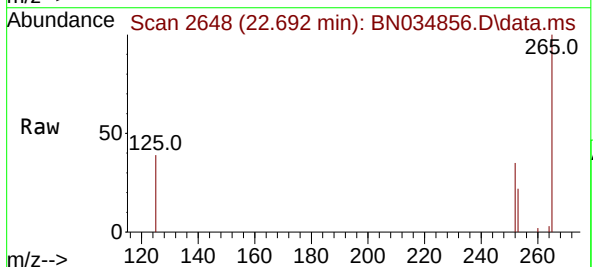
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

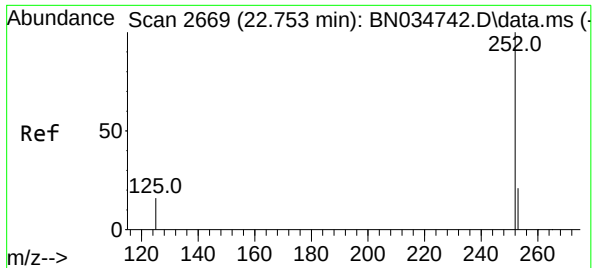
Tgt Ion: 276 Resp: 566
Ion Ratio Lower Upper
276 100
138 23.1 31.5 47.3#
277 11.7 19.7 29.5#



#37
Benzo(b)fluoranthene
Concen: 0.032 ng
RT: 22.692 min Scan# 2648
Delta R.T. 0.003 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion: 252 Resp: 733
Ion Ratio Lower Upper
252 100
253 61.4 19.7 29.5#
125 111.1 17.1 25.7#

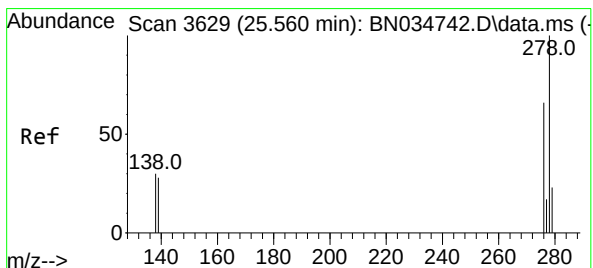
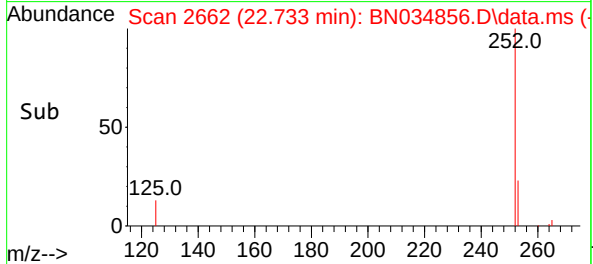
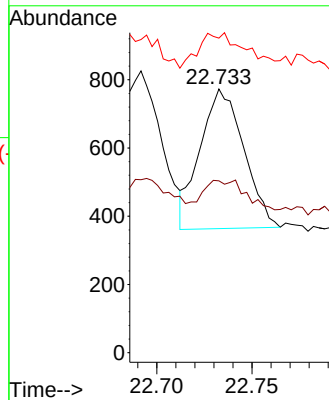
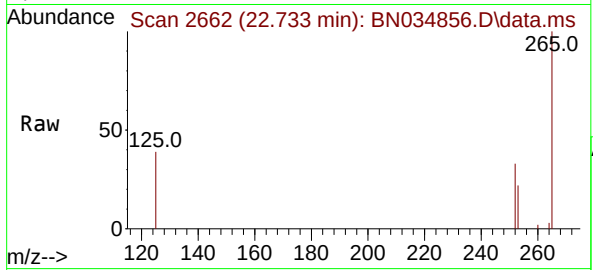




#38
Benzo(k)fluoranthene
Concen: 0.029 ng
RT: 22.733 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

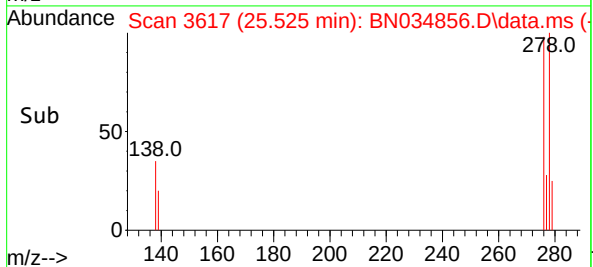
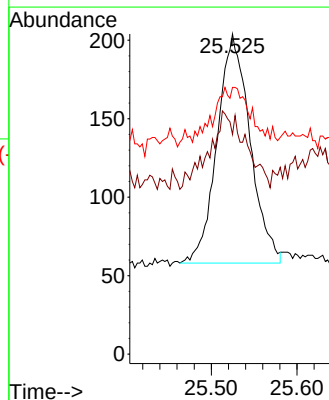
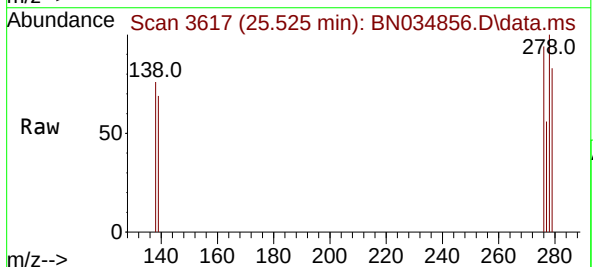
Instrument :
BNA_N
ClientSampleId :
BP-VPB-190-GW-518-520

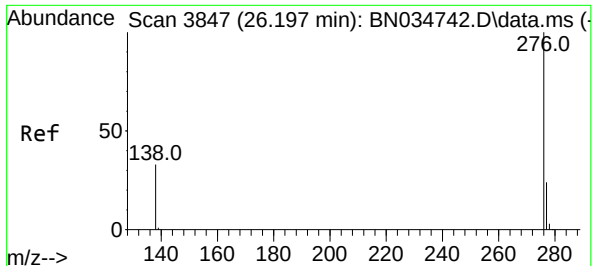
Tgt Ion:252 Resp: 653
Ion Ratio Lower Upper
252 100
253 65.2 19.8 29.6#
125 119.3 18.2 27.2#



#40
Dibenzo(a,h)anthracene
Concen: 0.024 ng
RT: 25.525 min Scan# 3617
Delta R.T. -0.000 min
Lab File: BN034856.D
Acq: 05 Nov 2024 01:09

Tgt Ion:278 Resp: 389
Ion Ratio Lower Upper
278 100
139 68.6 24.9 37.3#
279 83.3 21.0 31.4#





#41

Benzo(g,h,i)perylene

Concen: 0.027 ng

RT: 26.171 min Scan# 3847

Delta R.T. 0.006 min

Lab File: BN034856.D

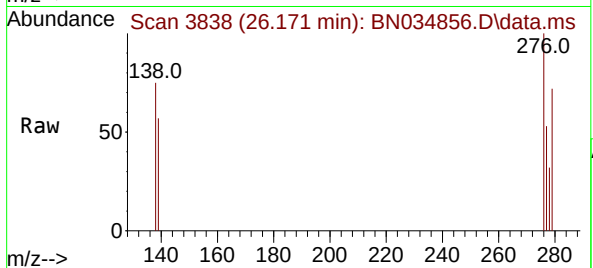
Acq: 05 Nov 2024 01:09

Instrument :

BNA_N

ClientSampleId :

BP-VPB-190-GW-518-520



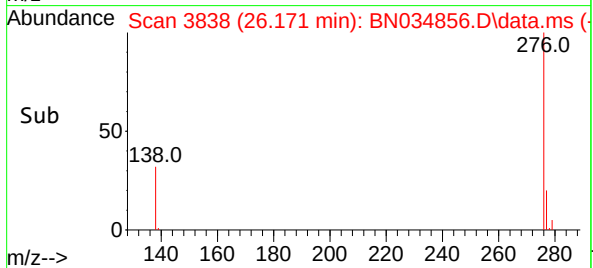
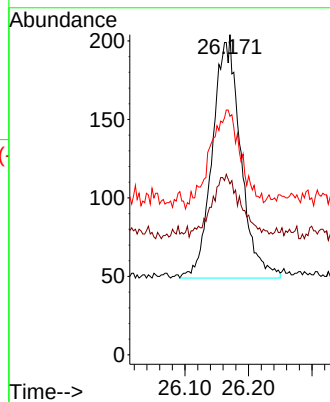
Tgt Ion:276 Resp: 474

Ion Ratio Lower Upper

276 100

277 53.4 20.2 30.2#

138 74.5 28.7 43.1#





CALIBRATION SUMMARY

- 1
- 2
- 3
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- 6
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- 11
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- 13
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- 15
- 16
- 17
- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 30 13:28:24 2024
Response Via : Initial Calibration

Calibration Files

0.1 =BN034740.D 0.2 =BN034741.D 0.4 =BN034742.D 0.8 =BN034743.D 1.6 =BN034744.D 3.2 =BN034745.D 5.0 =BN034746.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	0.498	0.441	0.407	0.462	0.438	0.418	0.405	0.439	7.62
3)	n-Nitrosodimet...	0.506	0.483	0.437	0.537	0.523	0.484	0.490	0.494	6.58
4) S	2-Fluorophenol	1.305	1.235	1.096	1.293	1.248	1.144	1.161	1.212	6.55
5) S	Phenol-d6	1.675	1.592	1.406	1.658	1.625	1.511	1.552	1.574	5.96
6)	bis(2-Chloroet...	1.155	1.134	1.057	1.247	1.211	1.115	1.124	1.149	5.51
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.320	0.305	0.278	0.338	0.328	0.308	0.323	0.314	6.25
9)	Naphthalene	1.150	1.096	0.996	1.191	1.153	1.069	1.087	1.106	5.87
10)	Hexachlorobuta...	0.191	0.182	0.165	0.197	0.190	0.173	0.177	0.182	6.17
11) SURR2	Methylnaphth...	0.577	0.560	0.519	0.628	0.617	0.569	0.584	0.579	6.27
12)	2-Methylnaphth...	0.719	0.708	0.649	0.785	0.769	0.709	0.725	0.723	6.16
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.199	0.178	0.158	0.204	0.213	0.206	0.224	0.198	11.32
15) S	2-Fluorobiphenyl	1.593	1.579	1.360	1.726	1.667	1.542	1.561	1.575	7.29
16)	Acenaphthylene	2.027	1.956	1.678	2.156	2.136	2.018	2.077	2.007	8.02
17)	Acenaphthene	1.338	1.292	1.133	1.458	1.440	1.332	1.368	1.337	8.07
18)	Fluorene	1.692	1.628	1.434	1.816	1.793	1.650	1.653	1.667	7.55
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.043	0.045	0.060	0.065	0.069	0.076	0.059		22.17
21)	4-Bromophenyl-...	0.235	0.234	0.210	0.246	0.238	0.229	0.229	0.231	4.76
22)	Hexachlorobenzene	0.265	0.262	0.238	0.278	0.267	0.254	0.250	0.259	5.10
23)	Atrazine	0.196	0.190	0.178	0.214	0.214	0.203	0.199	0.199	6.44
24)	Pentachlorophenol	0.102	0.088	0.091	0.114	0.122	0.127	0.138	0.112	16.80
25)	Phenanthrene	1.166	1.168	1.076	1.267	1.233	1.168	1.158	1.176	5.16
26)	Anthracene	1.080	1.074	0.990	1.163	1.177	1.108	1.114	1.101	5.67
27) SURR	Fluoranthene-d10	0.935	0.883	0.849	1.006	1.019	0.940	0.937	0.938	6.48
28)	Fluoranthene	1.282	1.221	1.174	1.404	1.416	1.296	1.283	1.297	6.82
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.207	2.148	1.926	2.280	2.091	2.001	1.987	2.091	6.12
31) S	Terphenyl-d14	0.911	0.869	0.788	0.931	0.867	0.825	0.822	0.859	5.92
32)	Benzo(a)anthra...	1.620	1.534	1.406	1.721	1.679	1.581	1.606	1.592	6.45
33)	Chrysene	1.596	1.522	1.406	1.688	1.644	1.519	1.538	1.559	5.98
34)	Bis(2-ethylhex...	1.487	1.243	1.291	1.388	1.332	1.237	1.342	1.331	6.57
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN103024.M

36)	Indeno(1,2,3-c...	1.517	1.552	1.332	1.572	1.482	1.423	1.421	1.471	5.76
37)	Benzo(b)fluora...	1.589	1.500	1.450	1.753	1.730	1.619	1.632	1.610	6.87
38)	Benzo(k)fluora...	1.562	1.491	1.396	1.704	1.653	1.605	1.588	1.571	6.52
39) C	Benzo(a)pyrene	1.315	1.277	1.181	1.434	1.404	1.336	1.355	1.329	6.31
40)	Dibenzo(a,h)an...	1.189	1.210	1.035	1.230	1.152	1.110	1.107	1.147	5.98
41)	Benzo(g,h,i)pe...	1.302	1.335	1.138	1.329	1.223	1.185	1.170	1.240	6.54

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034740.D
 Acq On : 30 Oct 2024 09:20
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Oct 30 13:31:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

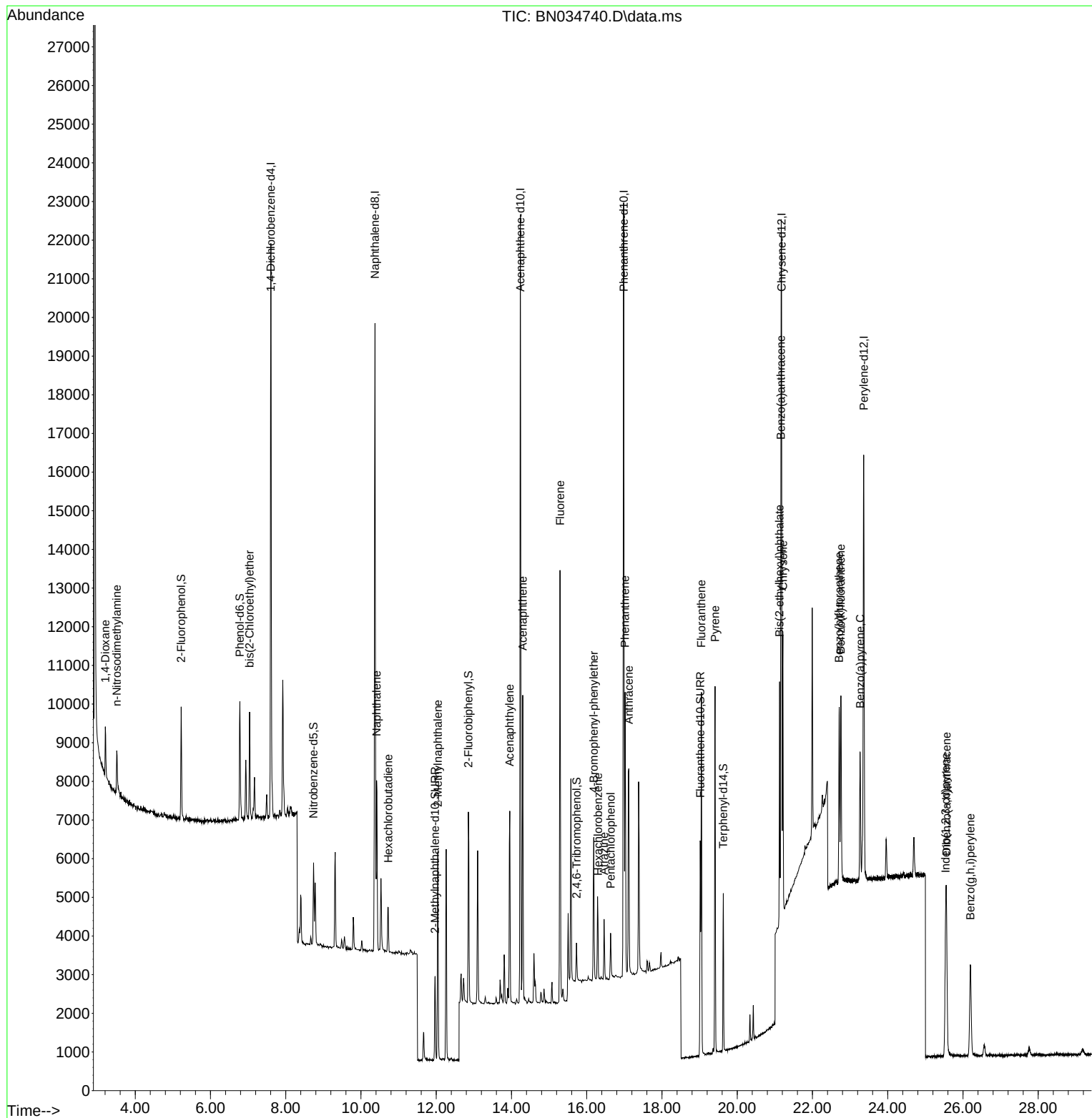
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	6966	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	20732	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	11210	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	24788	0.400	ng	0.00
29) Chrysene-d12	21.178	240	14730	0.400	ng	0.00
35) Perylene-d12	23.361	264	13293	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2272	0.108	ng	0.00
5) Phenol-d6	6.781	99	2917	0.106	ng	0.00
8) Nitrobenzene-d5	8.739	82	1657	0.102	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	2990	0.100	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	557	0.101	ng	0.00
15) 2-Fluorobiphenyl	12.854	172	4463	0.101	ng	-0.01
27) Fluoranthene-d10	19.020	212	5792	0.100	ng	0.00
31) Terphenyl-d14	19.628	244	3356	0.106	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	868	0.114	ng	95
3) n-Nitrosodimethylamine	3.509	42	881	0.102	ng	98
6) bis(2-Chloroethyl)ether	7.040	93	2012	0.101	ng	97
9) Naphthalene	10.415	128	5961	0.104	ng	# 94
10) Hexachlorobutadiene	10.725	225	990	0.105	ng	# 99
12) 2-Methylnaphthalene	12.041	142	3724	0.099	ng	# 94
16) Acenaphthylene	13.955	152	5681	0.101	ng	99
17) Acenaphthene	14.297	154	3749	0.100	ng	98
18) Fluorene	15.291	166	4743	0.102	ng	99
21) 4-Bromophenyl-phenylether	16.188	248	1457	0.102	ng	95
22) Hexachlorobenzene	16.299	284	1642	0.102	ng	99
23) Atrazine	16.461	200	1214	0.098	ng	93
24) Pentachlorophenol	16.635	266	629	0.091	ng	94
25) Phenanthrene	17.019	178	7224	0.099	ng	99
26) Anthracene	17.119	178	6694	0.098	ng	99
28) Fluoranthene	19.048	202	7945	0.099	ng	100
30) Pyrene	19.410	202	8126	0.106	ng	99
32) Benzo(a)anthracene	21.160	228	5965	0.102	ng	99
33) Chrysene	21.214	228	5879	0.102	ng	98
34) Bis(2-ethylhexyl)phtha...	21.125	149	5476	0.112	ng	99
36) Indeno(1,2,3-cd)pyrene	25.537	276	5041	0.103	ng	# 85
37) Benzo(b)fluoranthene	22.709	252	5282	0.099	ng	# 71
38) Benzo(k)fluoranthene	22.753	252	5191	0.099	ng	# 61
39) Benzo(a)pyrene	23.268	252	4369	0.099	ng	# 62
40) Dibenzo(a,h)anthracene	25.560	278	3951	0.104	ng	# 71
41) Benzo(g,h,i)perylene	26.197	276	4327	0.105	ng	# 82

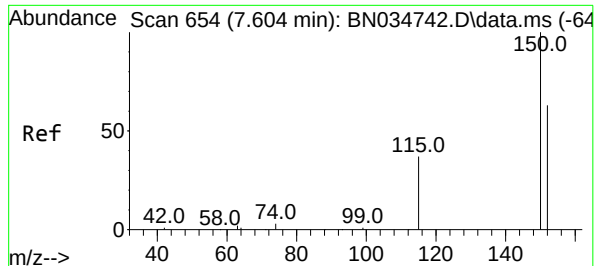
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034740.D
Acq On : 30 Oct 2024 09:20
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Oct 30 13:31:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

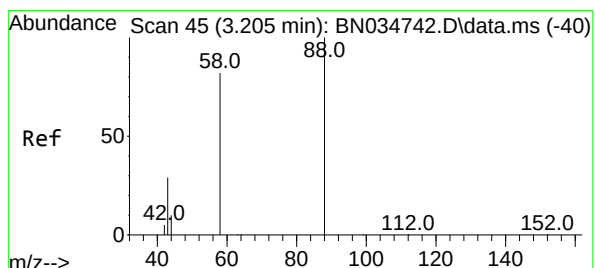
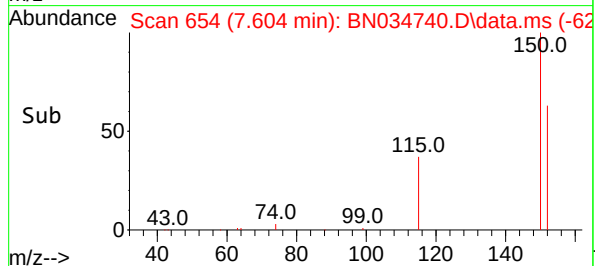
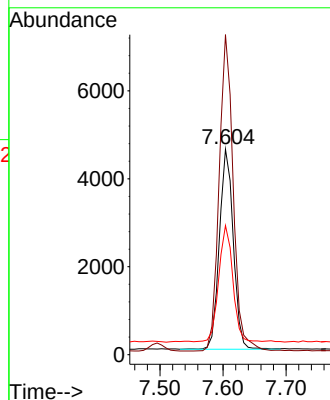
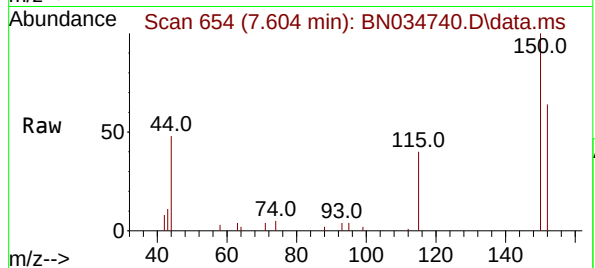




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

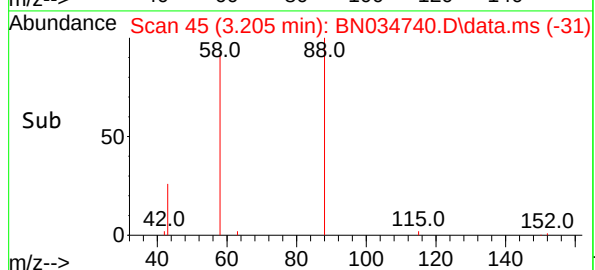
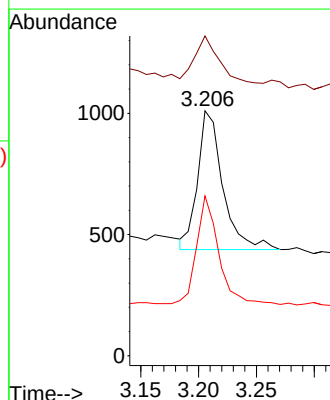
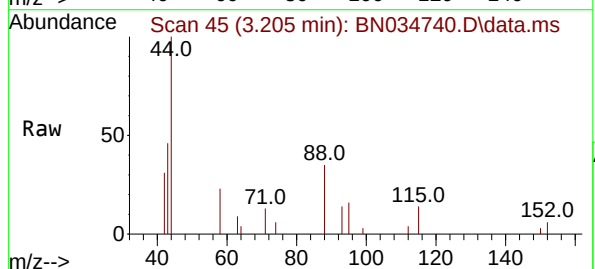
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

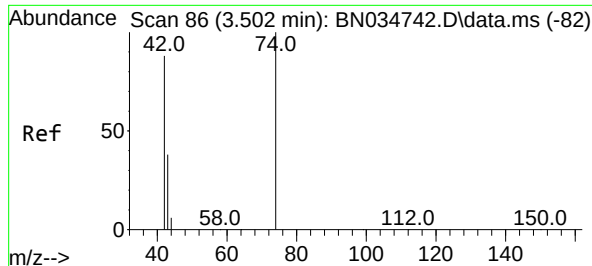
Tgt Ion:152 Resp: 6966
Ion Ratio Lower Upper
152 100
150 155.8 124.9 187.3
115 62.9 50.2 75.2



#2
1,4-Dioxane
Concen: 0.114 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion: 88 Resp: 868
Ion Ratio Lower Upper
88 100
43 32.4 26.7 40.1
58 68.7 59.3 88.9

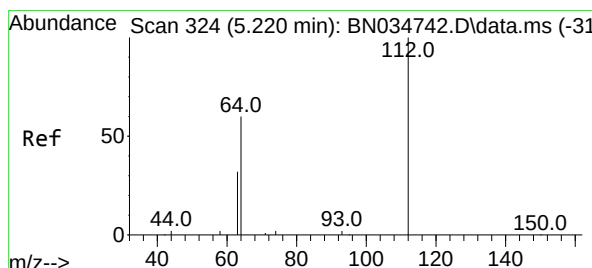
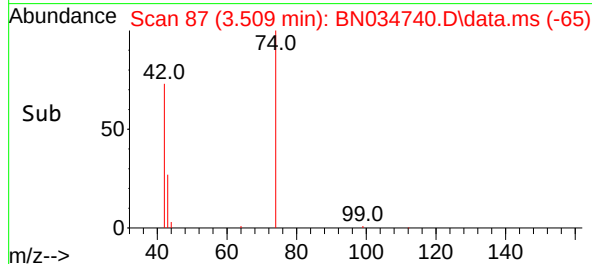
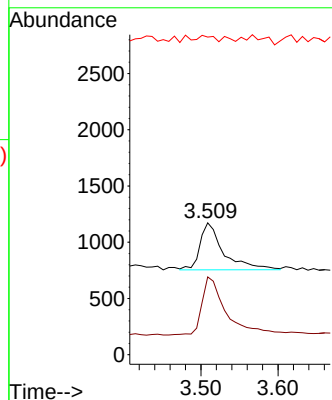
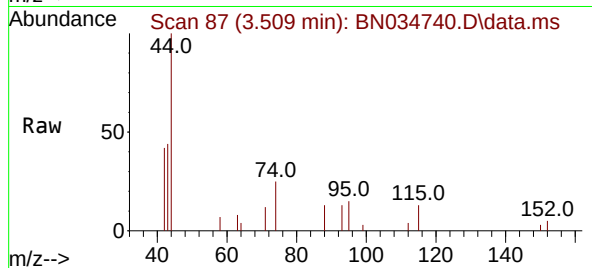




#3
n-Nitrosodimethylamine
Concen: 0.102 ng
RT: 3.509 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

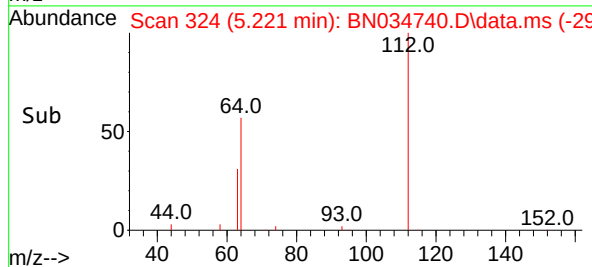
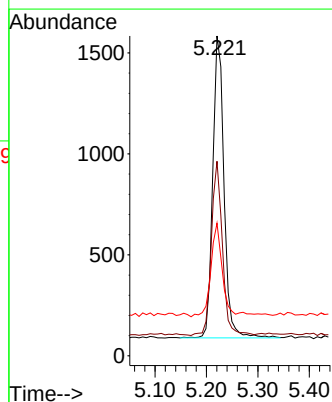
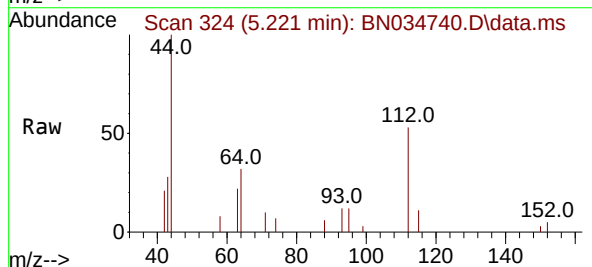
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

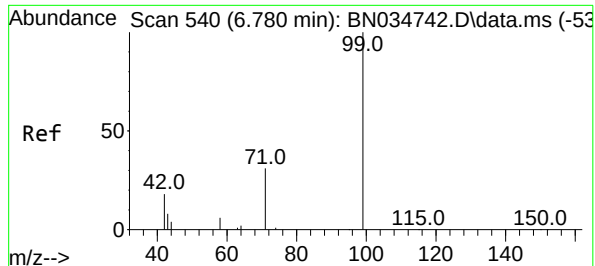
Tgt Ion: 42 Resp: 881
Ion Ratio Lower Upper
42 100
74 130.9 103.1 154.7
44 8.7 6.7 10.1



#4
2-Fluorophenol
Concen: 0.108 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion: 112 Resp: 2272
Ion Ratio Lower Upper
112 100
64 56.6 44.9 67.3
63 30.6 23.5 35.3

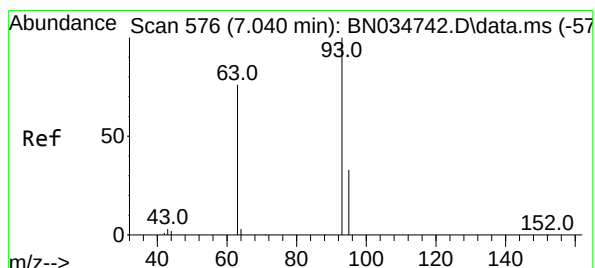
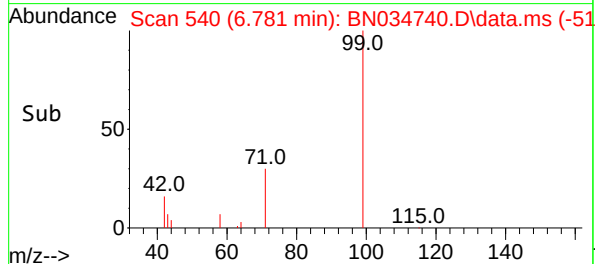
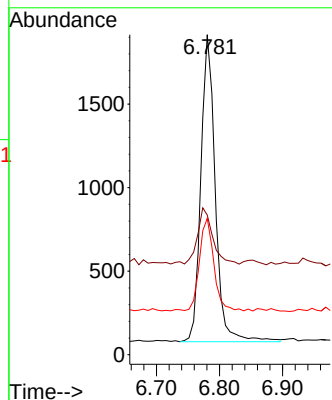
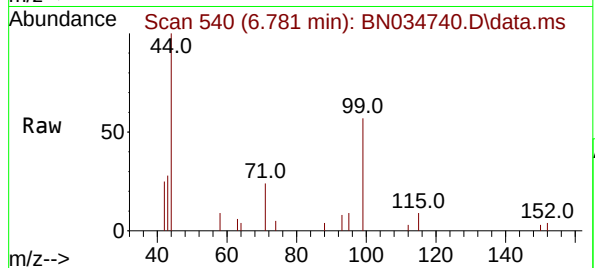




#5
Phenol-d6
Concen: 0.106 ng
RT: 6.781 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

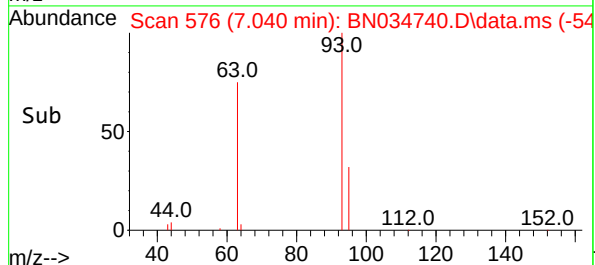
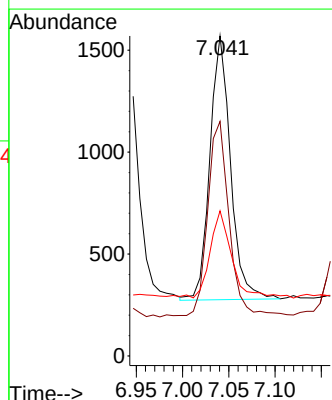
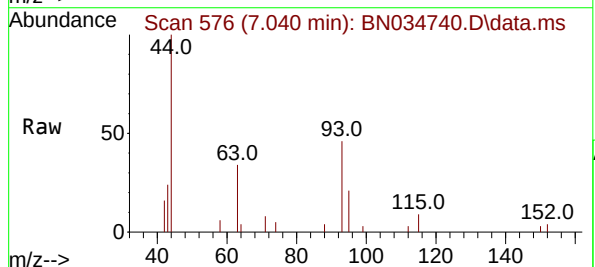
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

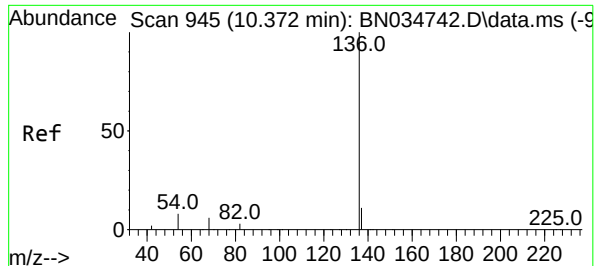
Tgt Ion: 99 Resp: 2917
Ion Ratio Lower Upper
99 100
42 19.5 15.9 23.9
71 30.0 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion: 93 Resp: 2012
Ion Ratio Lower Upper
93 100
63 78.1 61.2 91.8
95 34.7 25.8 38.8

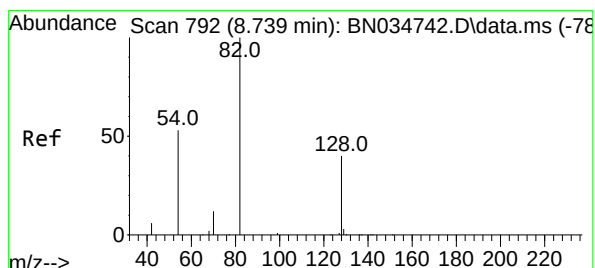
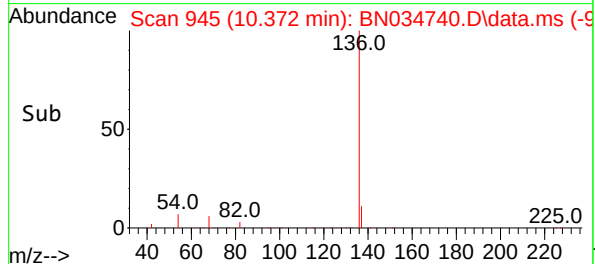
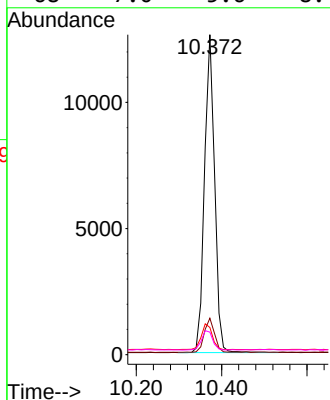
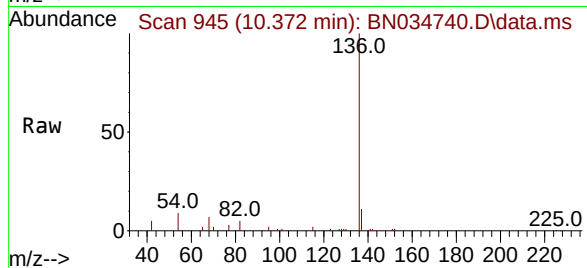




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

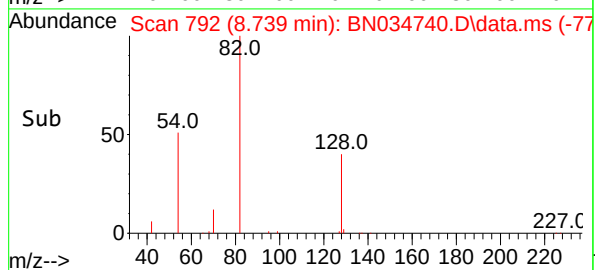
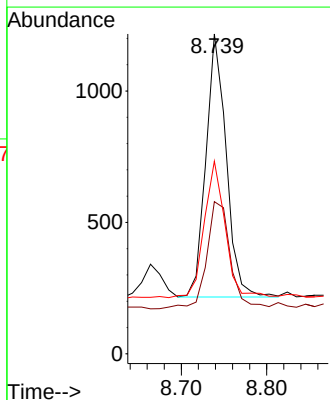
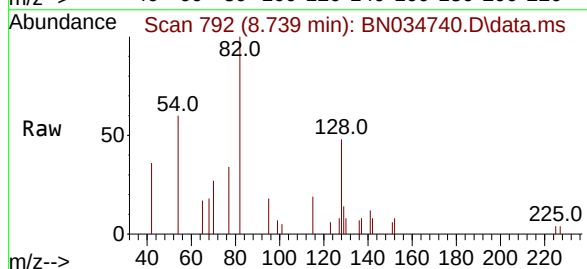
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

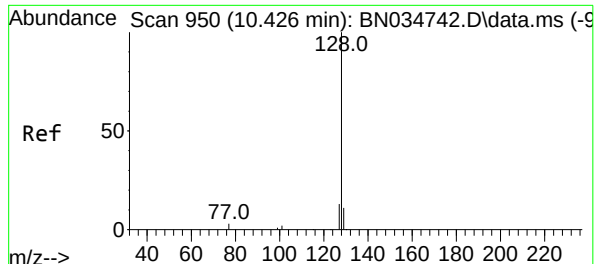
Tgt Ion:	136	Resp:	20732
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	8.5	7.0	10.4
68	7.0	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.102 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:	82	Resp:	1657
Ion	Ratio	Lower	Upper
82	100		
128	47.6	33.7	50.5
54	60.2	44.4	66.6

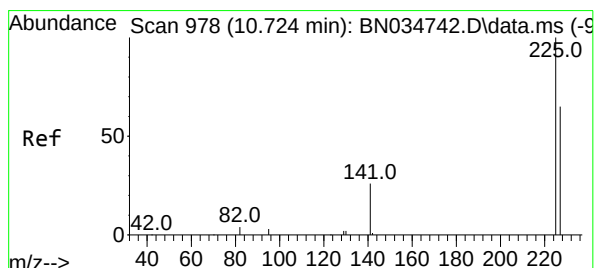
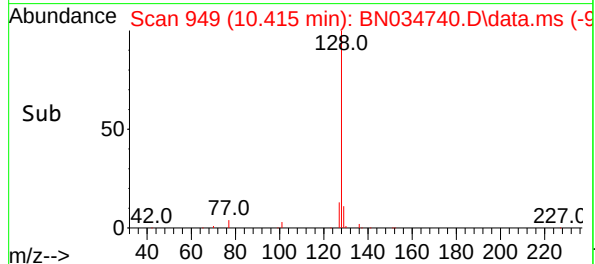
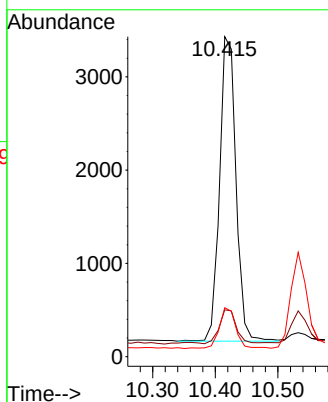
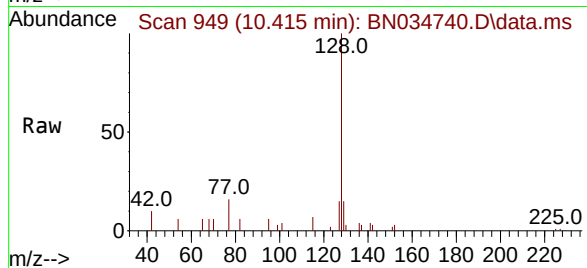




#9
Naphthalene
Concen: 0.104 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

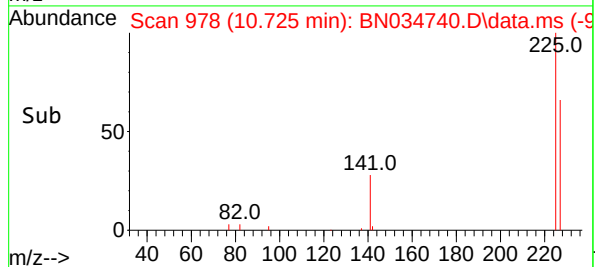
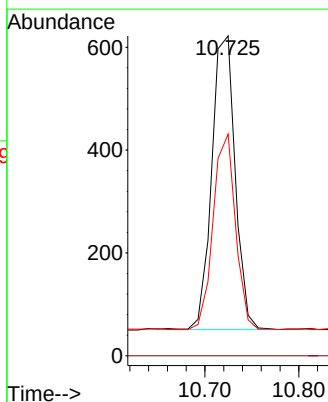
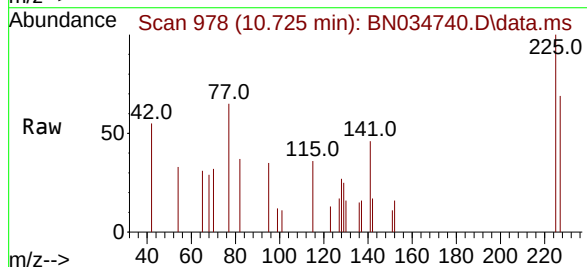
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

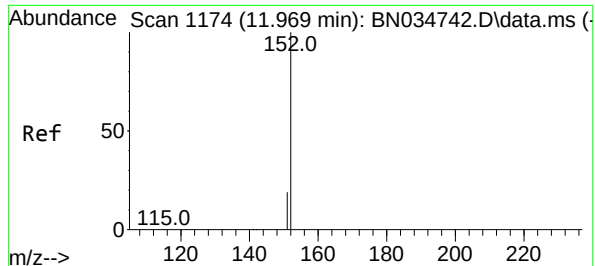
Tgt Ion:128 Resp: 5961
Ion Ratio Lower Upper
128 100
129 14.6 9.4 14.0#
127 15.3 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.105 ng
RT: 10.725 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:225 Resp: 990
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 51.4 77.2

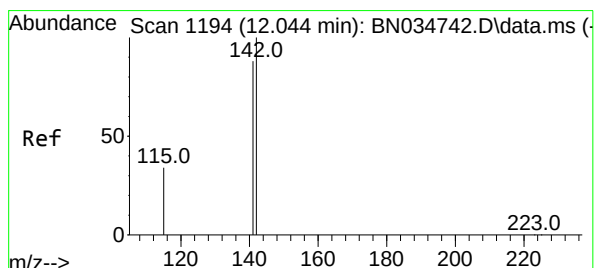
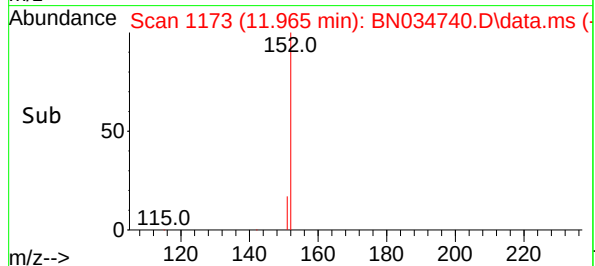
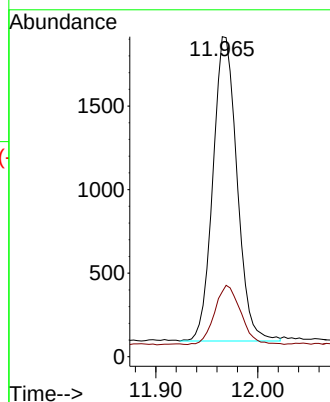
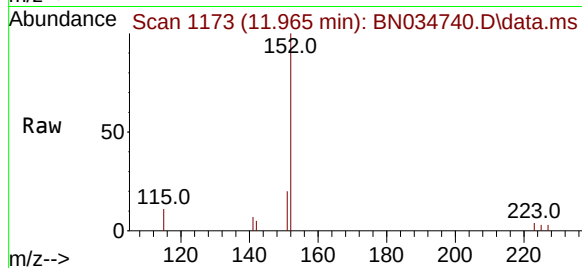




#11
2-Methylnaphthalene-d10
Concen: 0.100 ng
RT: 11.965 min Scan# 1173
Delta R.T. -0.004 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

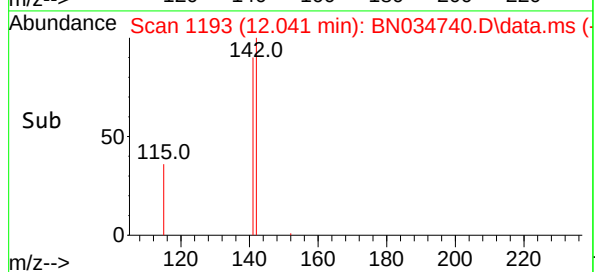
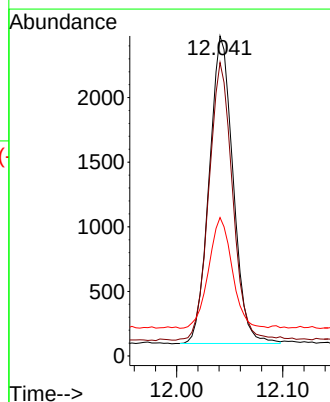
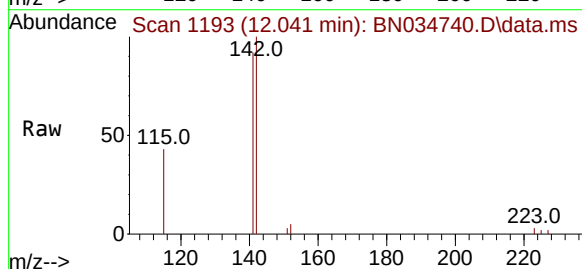
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

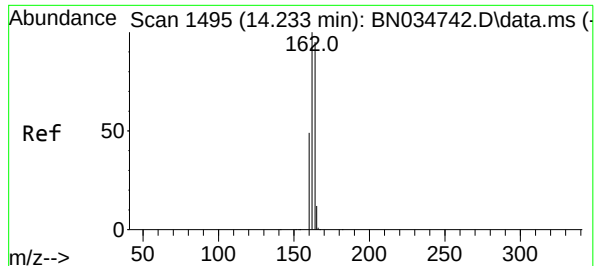
Tgt Ion:152 Resp: 2990
Ion Ratio Lower Upper
152 100
151 21.0 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.099 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:142 Resp: 3724
Ion Ratio Lower Upper
142 100
141 91.7 70.6 106.0
115 43.2 28.6 42.8#

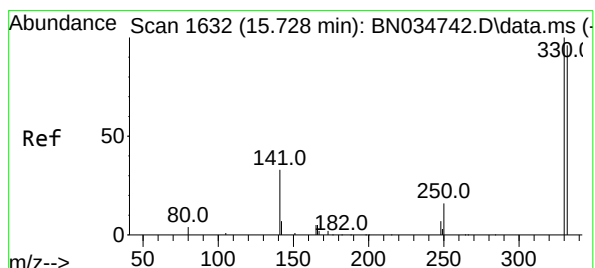
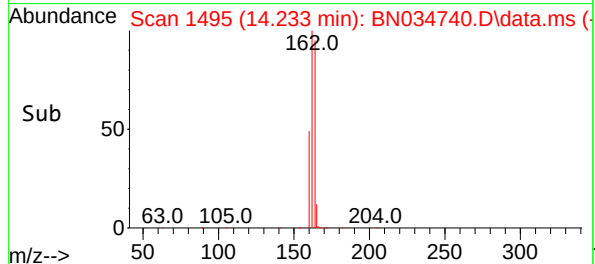
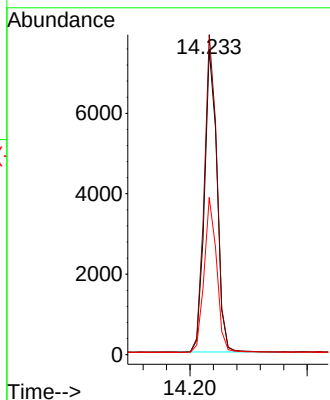
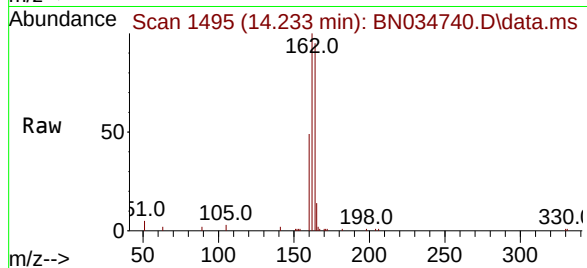




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

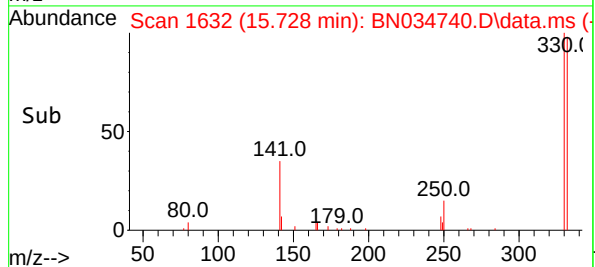
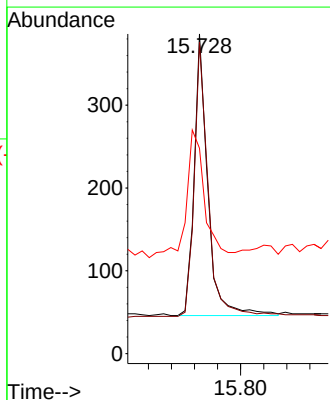
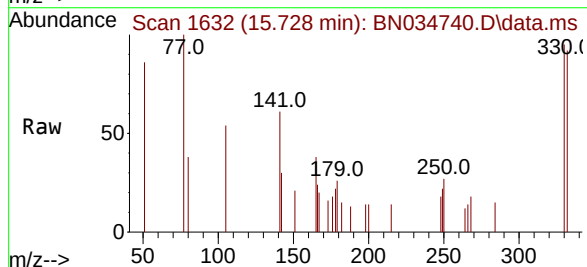
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

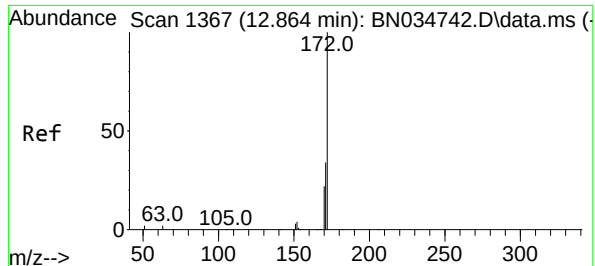
Tgt Ion:164 Resp: 11210
Ion Ratio Lower Upper
164 100
162 104.8 84.3 126.5
160 51.5 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.101 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:330 Resp: 557
Ion Ratio Lower Upper
330 100
332 99.5 77.8 116.6
141 60.5 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 0.101 ng

RT: 12.854 min Scan# 1366

Delta R.T. -0.011 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

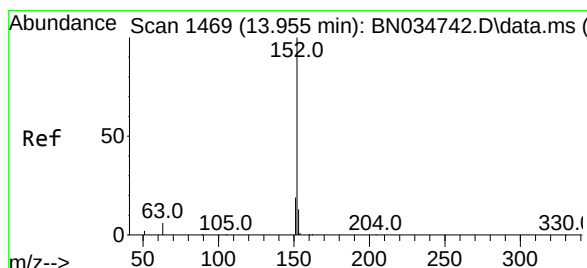
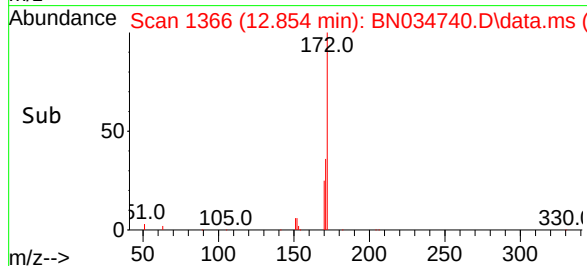
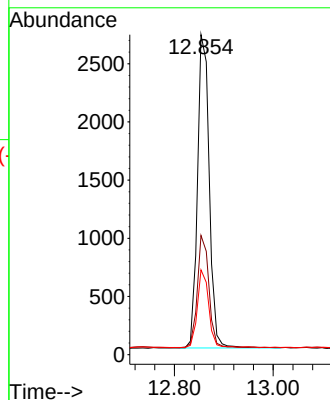
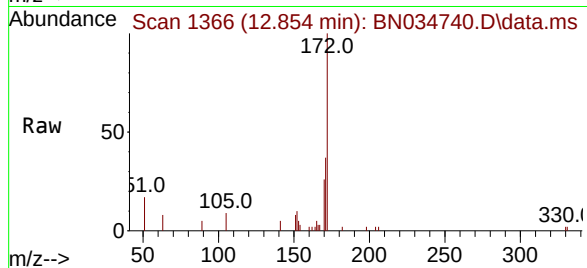
Tgt Ion:172 Resp: 4463

Ion Ratio Lower Upper

172 100

171 37.2 27.2 40.8

170 26.5 18.0 27.0



#16

Acenaphthylene

Concen: 0.101 ng

RT: 13.955 min Scan# 1469

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

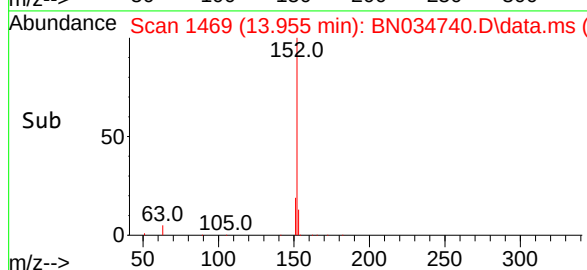
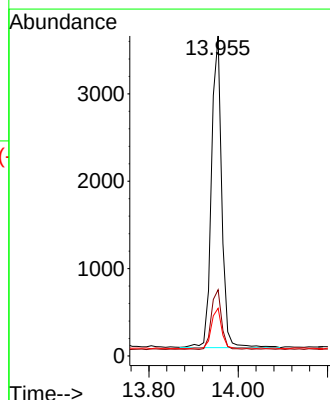
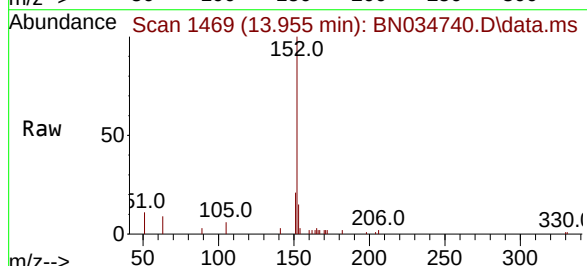
Tgt Ion:152 Resp: 5681

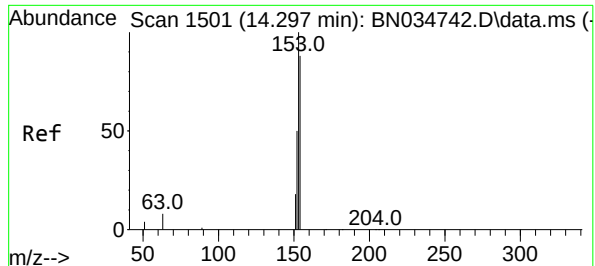
Ion Ratio Lower Upper

152 100

151 18.9 15.4 23.2

153 13.1 10.2 15.4

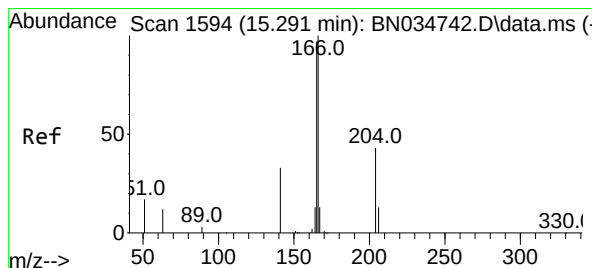
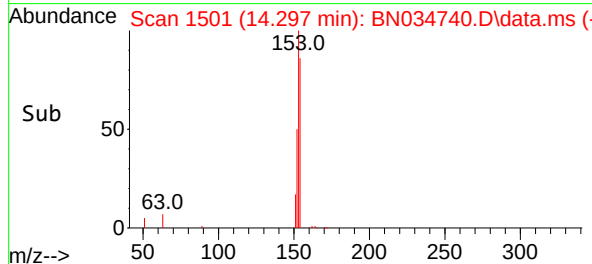
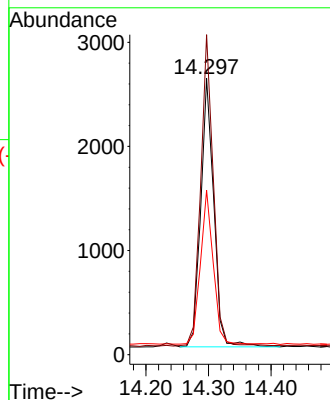
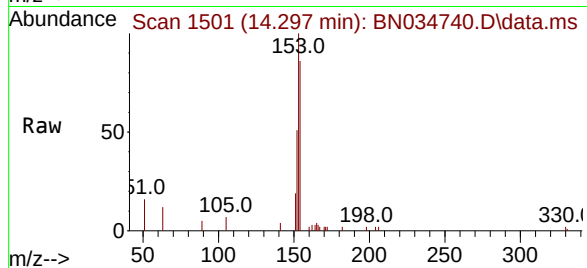




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

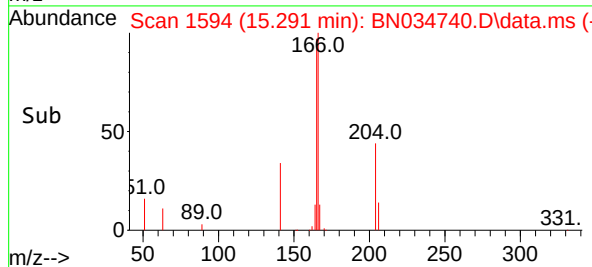
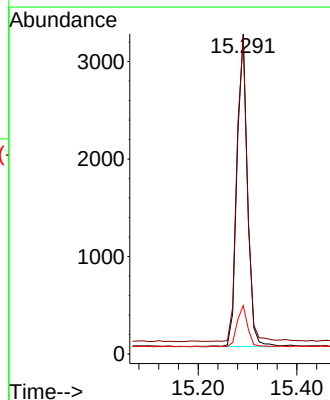
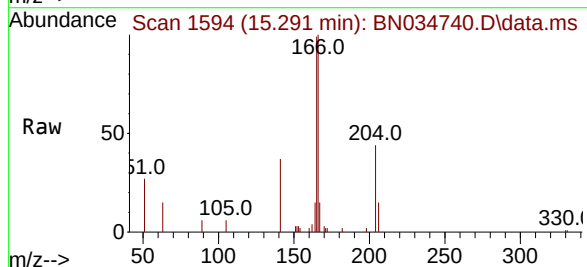
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

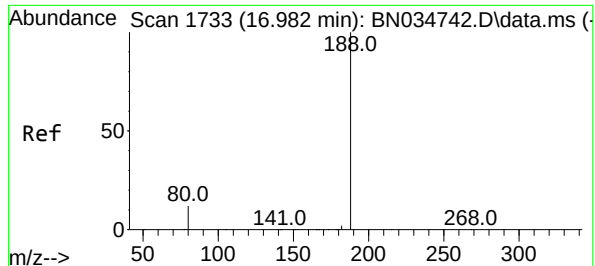
Tgt Ion:154 Resp: 3749
Ion Ratio Lower Upper
154 100
153 113.1 87.8 131.6
152 55.8 44.6 67.0



#18
Fluorene
Concen: 0.102 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:166 Resp: 4743
Ion Ratio Lower Upper
166 100
165 97.2 78.5 117.7
167 13.8 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 1733

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

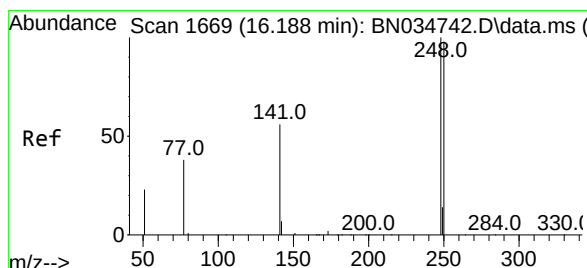
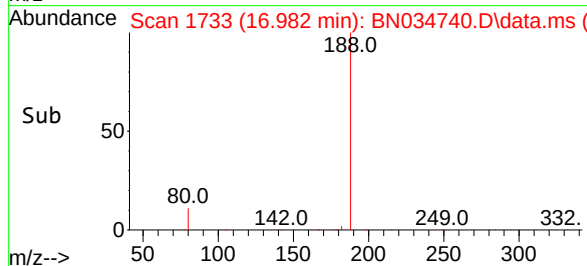
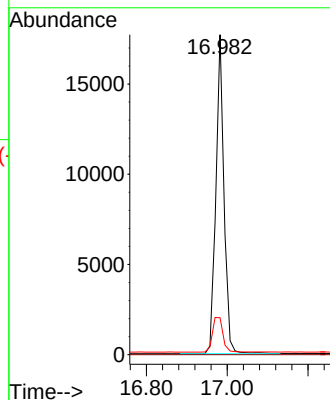
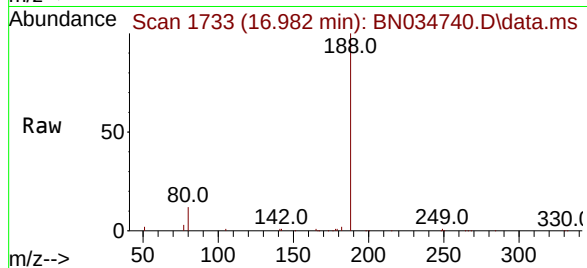
Tgt Ion:188 Resp: 24788

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.6 9.8 14.6



#21

4-Bromophenyl-phenylether

Concen: 0.102 ng

RT: 16.188 min Scan# 1669

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

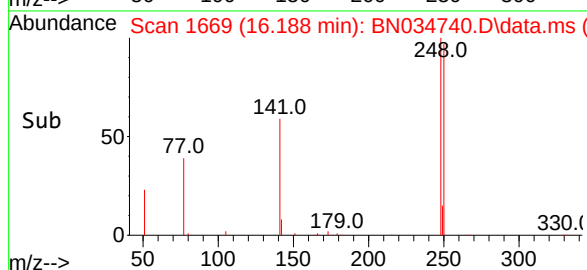
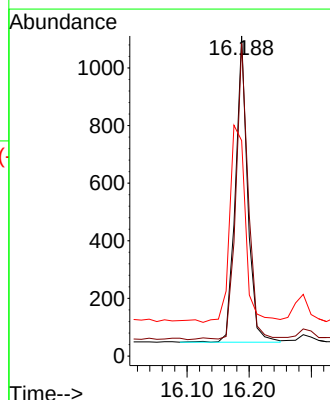
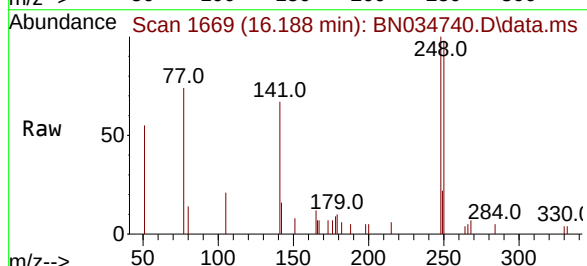
Tgt Ion:248 Resp: 1457

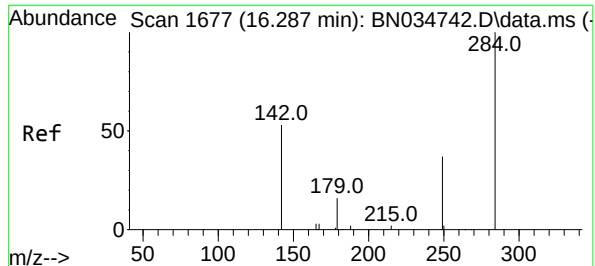
Ion Ratio Lower Upper

248 100

250 97.7 78.7 118.1

141 67.3 46.4 69.6





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.299 min Scan# 1678

Delta R.T. 0.013 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

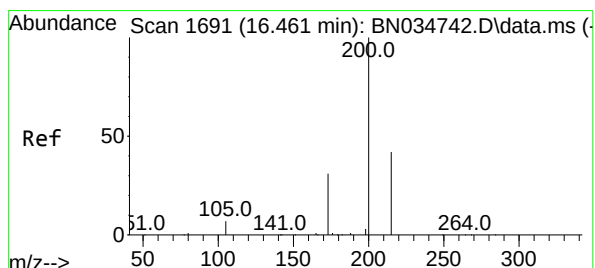
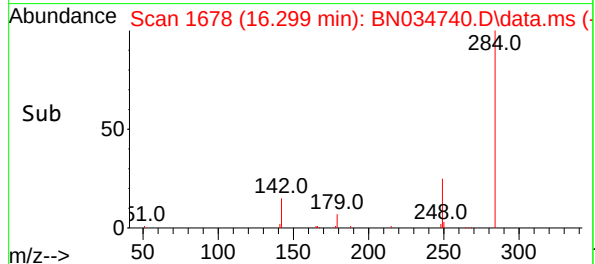
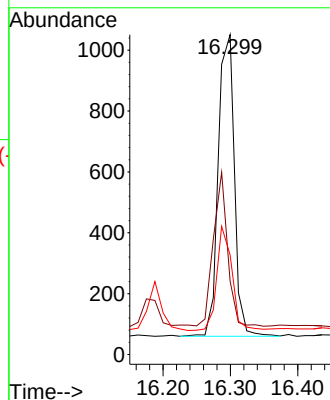
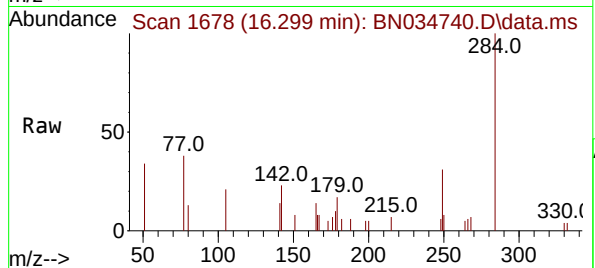
Tgt Ion:284 Resp: 1642

Ion Ratio Lower Upper

284 100

142 44.9 35.4 53.0

249 32.5 25.7 38.5



#23

Atrazine

Concen: 0.098 ng

RT: 16.461 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

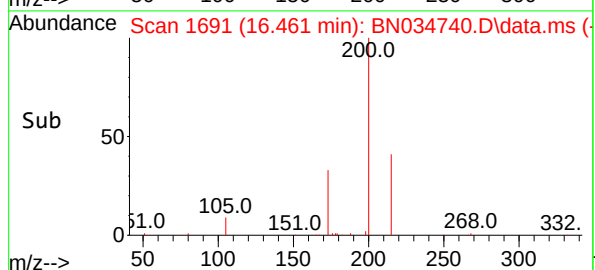
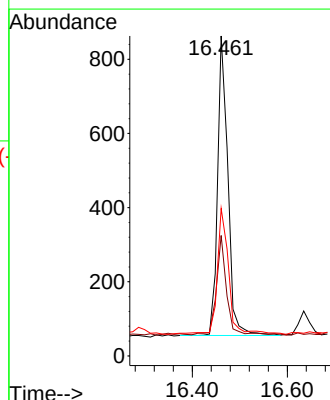
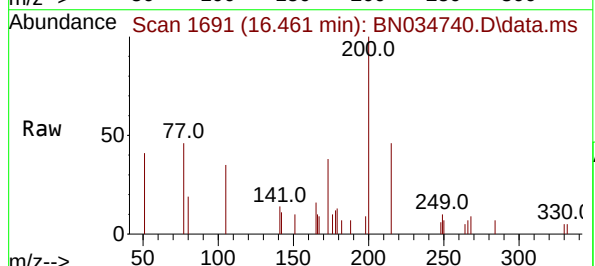
Tgt Ion:200 Resp: 1214

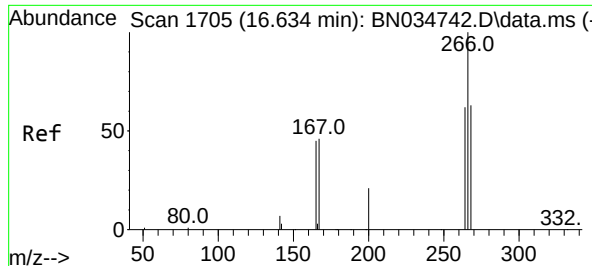
Ion Ratio Lower Upper

200 100

173 37.7 25.8 38.6

215 46.1 34.2 51.4





#24

Pentachlorophenol

Concen: 0.091 ng

RT: 16.635 min Scan# 1705

Delta R.T. 0.001 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

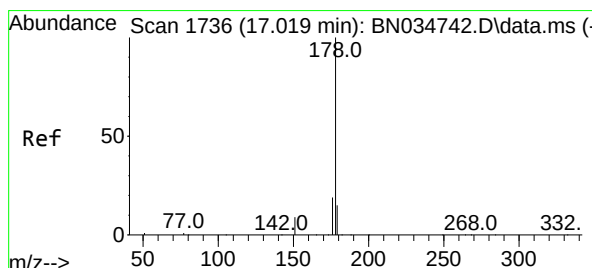
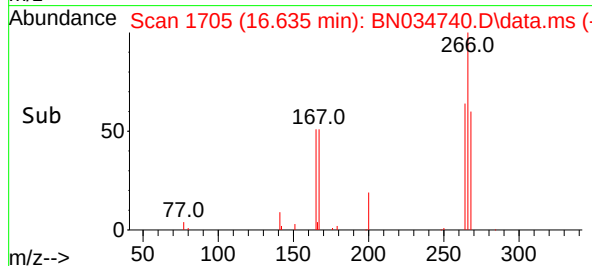
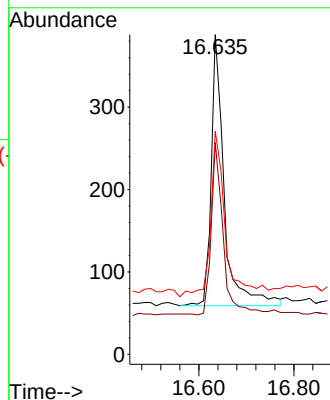
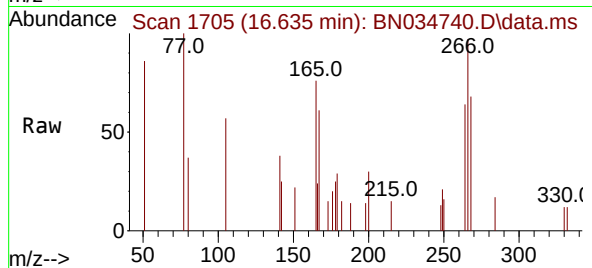
Tgt Ion:266 Resp: 629

Ion Ratio Lower Upper

266 100

264 58.2 48.7 73.1

268 69.6 50.2 75.4



#25

Phenanthrene

Concen: 0.099 ng

RT: 17.019 min Scan# 1736

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

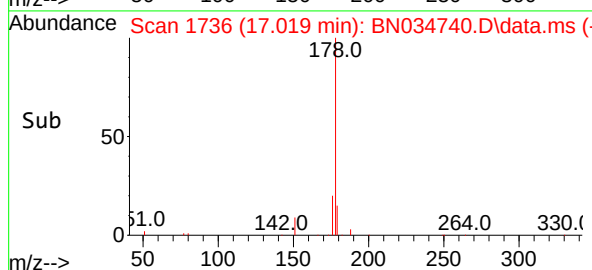
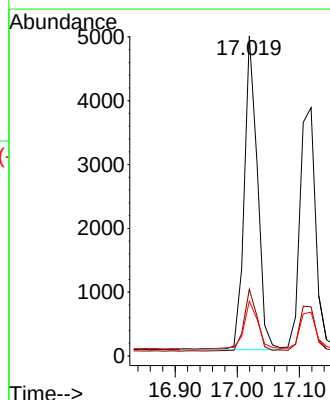
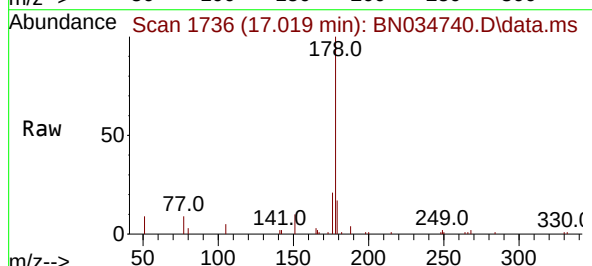
Tgt Ion:178 Resp: 7224

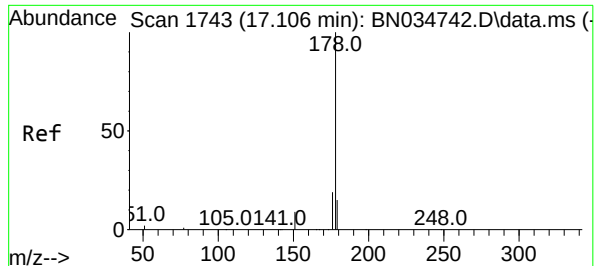
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 16.4 12.2 18.4

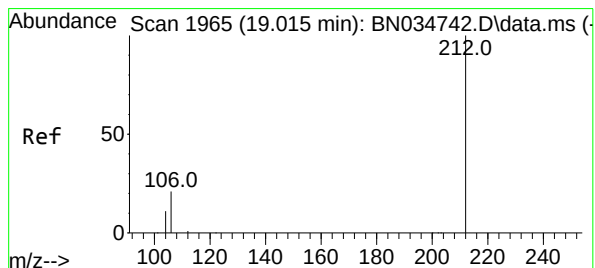
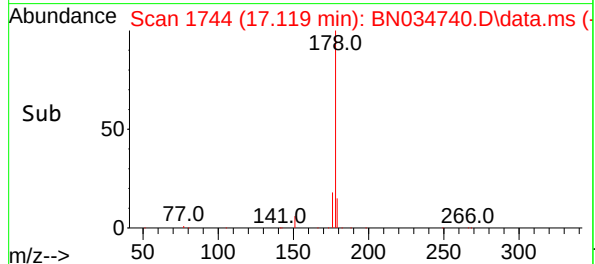
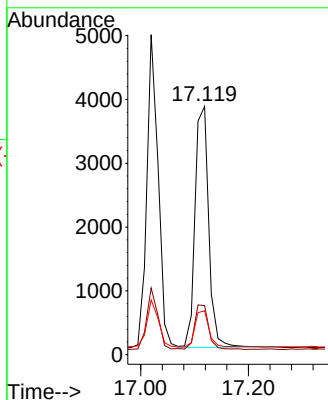
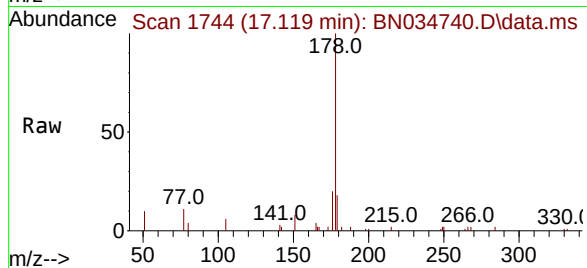




#26
Anthracene
Concen: 0.098 ng
RT: 17.119 min Scan# 1744
Delta R.T. 0.013 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

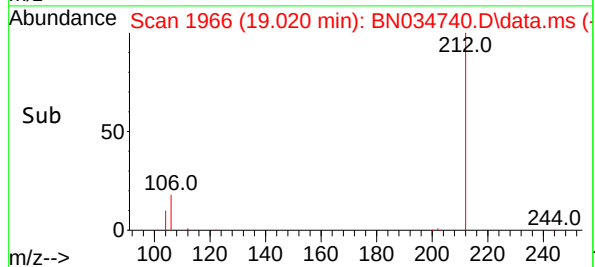
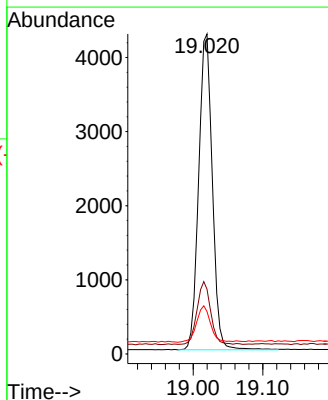
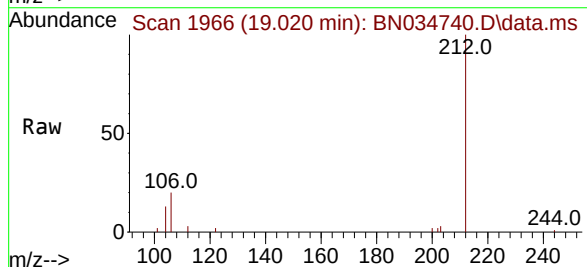
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

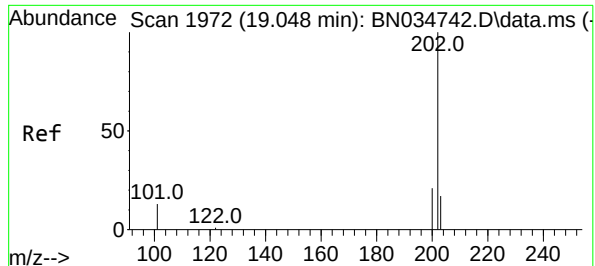
Tgt Ion:178 Resp: 6694
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.8 12.2 18.2



#27
Fluoranthene-d10
Concen: 0.100 ng
RT: 19.020 min Scan# 1966
Delta R.T. 0.005 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:212 Resp: 5792
Ion Ratio Lower Upper
212 100
106 19.6 16.1 24.1
104 11.7 9.2 13.8

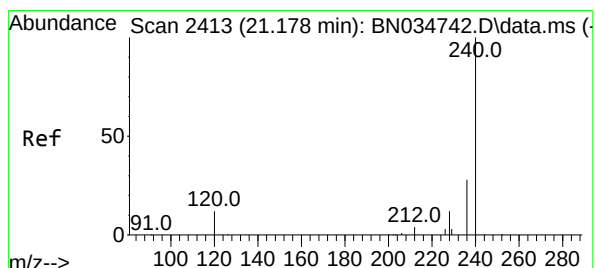
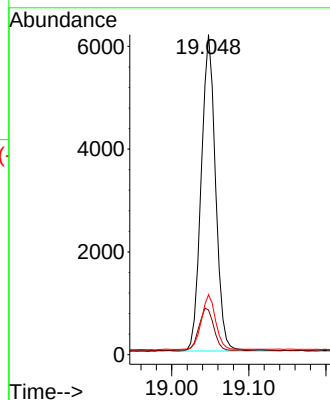
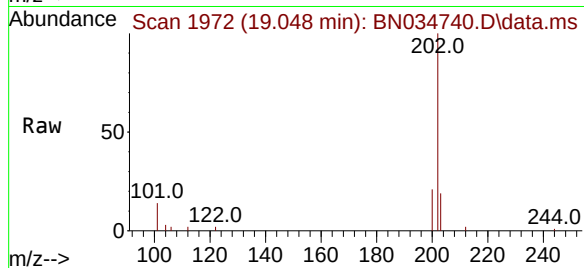




#28
Fluoranthene
Concen: 0.099 ng
RT: 19.048 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

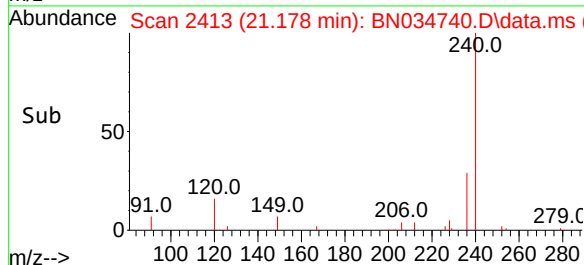
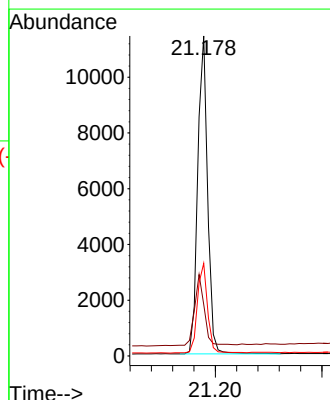
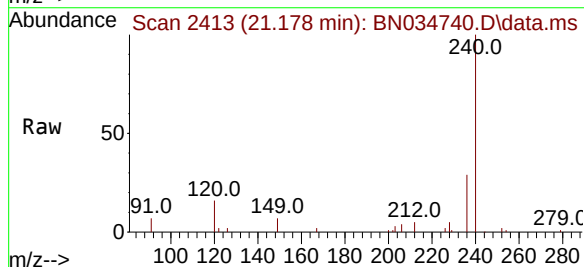
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

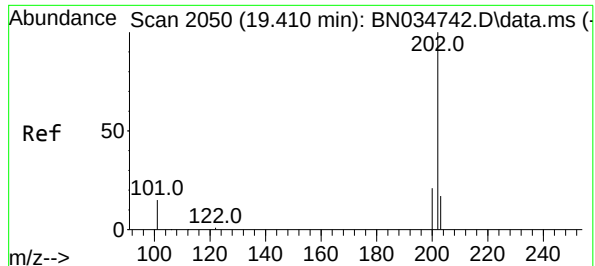
Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.1	11.4	17.0
203	17.1	13.7	20.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.178 min Scan# 2413
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.1	11.5	17.3
236	28.9	23.2	34.8





#30

Pyrene

Concen: 0.106 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

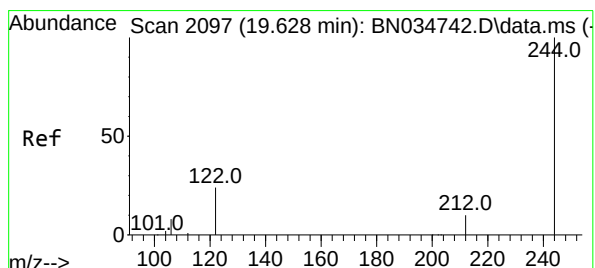
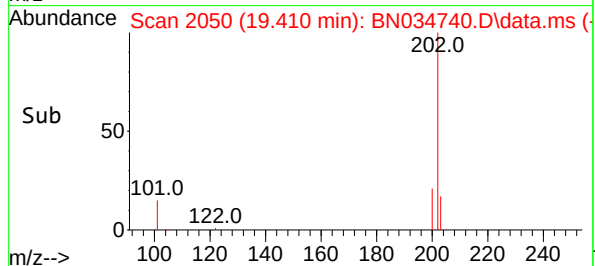
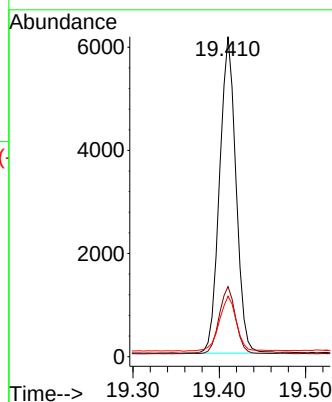
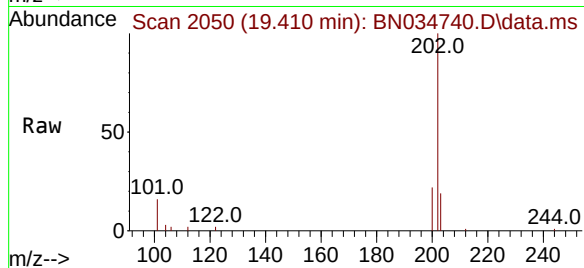
Tgt Ion:202 Resp: 8126

Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.4

203 18.3 14.2 21.2



#31

Terphenyl-d14

Concen: 0.106 ng

RT: 19.628 min Scan# 2097

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

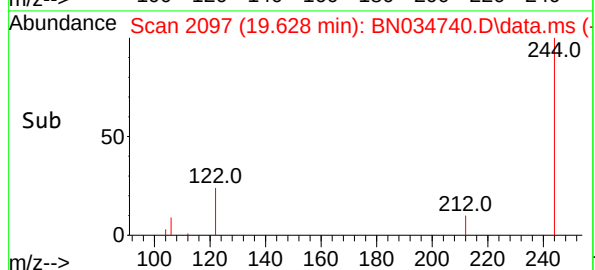
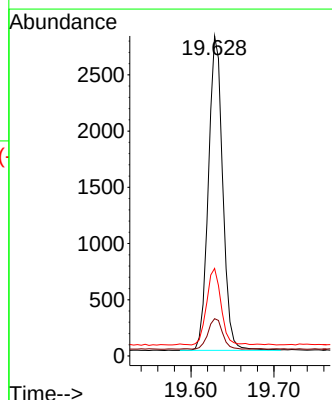
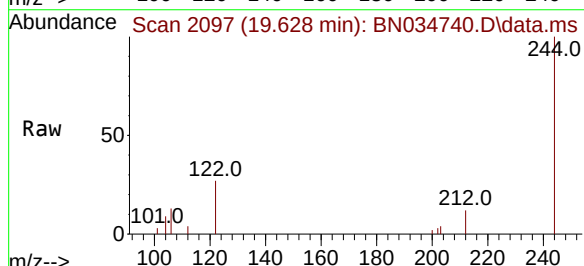
Tgt Ion:244 Resp: 3356

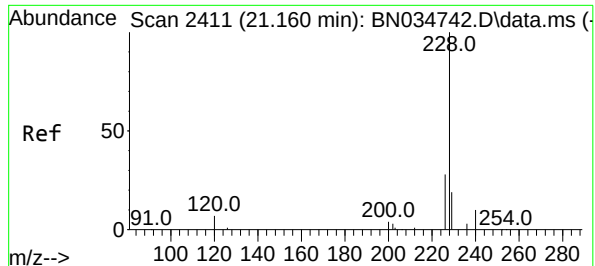
Ion Ratio Lower Upper

244 100

212 11.7 8.2 12.4

122 27.3 19.8 29.6





#32

Benzo(a)anthracene

Concen: 0.102 ng

RT: 21.160 min Scan# 2411

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

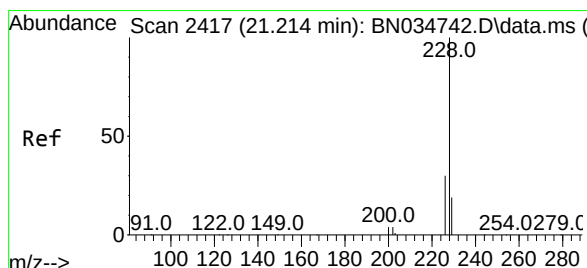
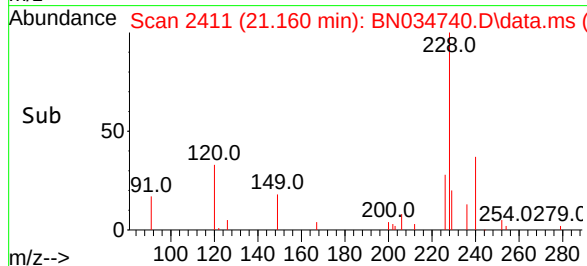
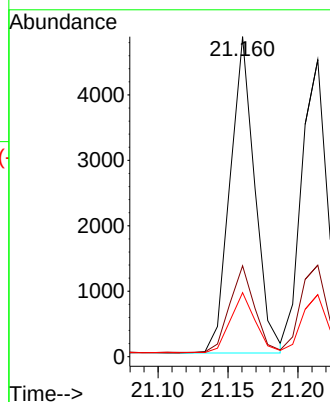
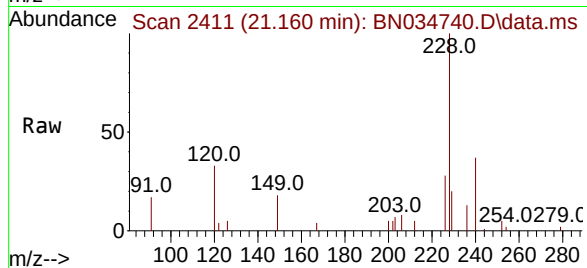
Tgt Ion:228 Resp: 5965

Ion Ratio Lower Upper

228 100

226 28.4 22.6 33.8

229 20.0 15.7 23.5



#33

Chrysene

Concen: 0.102 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

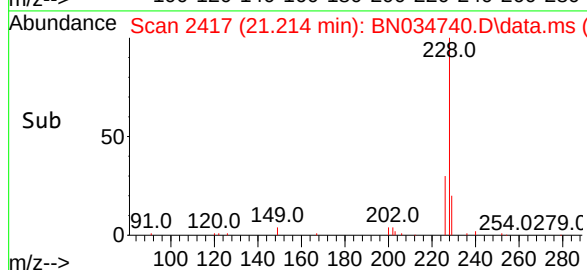
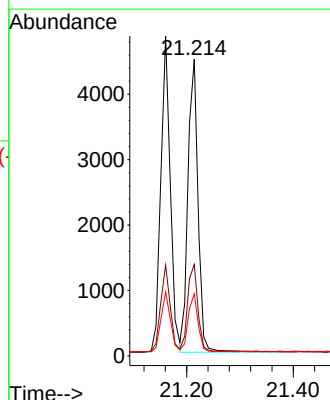
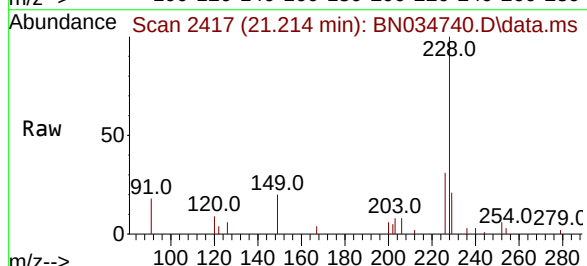
Tgt Ion:228 Resp: 5879

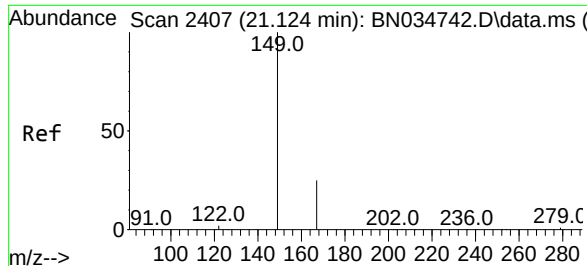
Ion Ratio Lower Upper

228 100

226 30.8 24.4 36.6

229 20.9 15.6 23.4

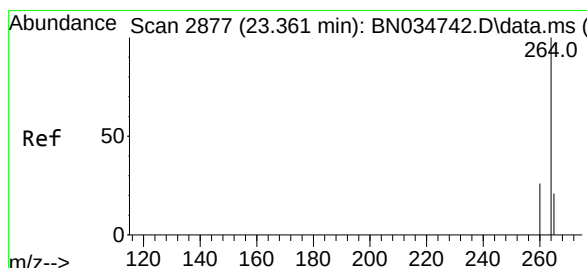
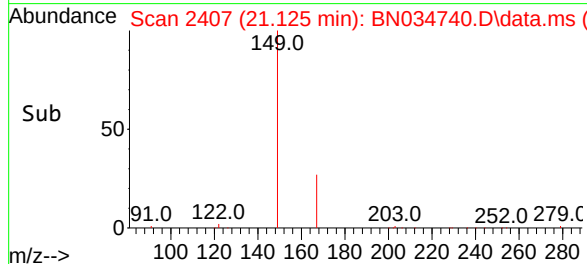
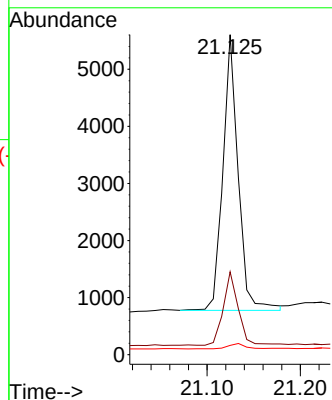
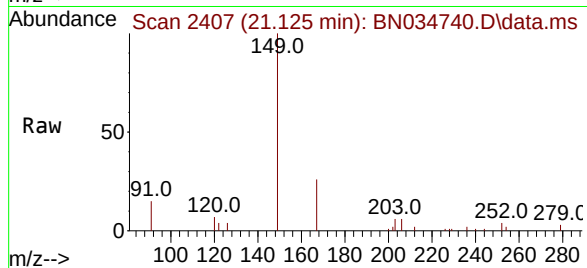




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.112 ng
RT: 21.125 min Scan# 2407
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

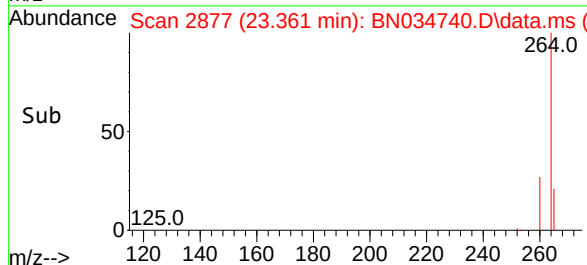
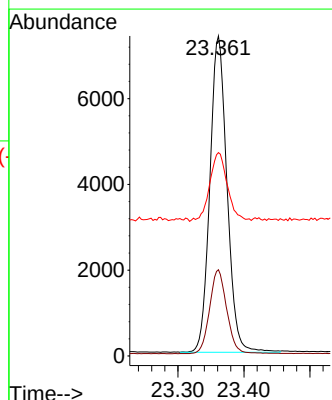
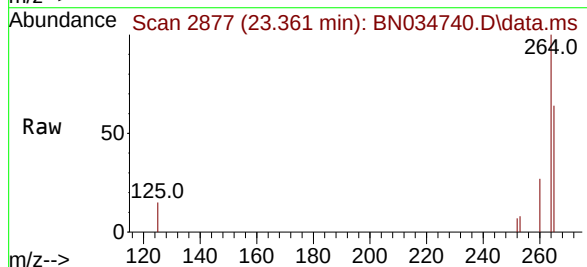
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

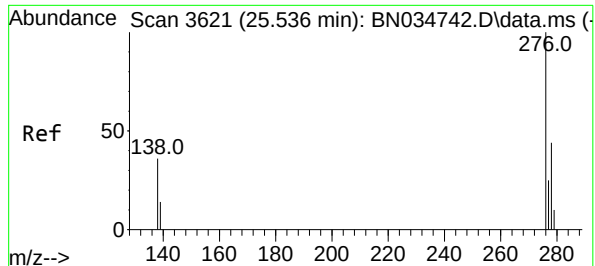
Tgt Ion:149 Resp: 5476
Ion Ratio Lower Upper
149 100
167 26.2 20.6 30.8
279 2.2 1.5 2.3



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.361 min Scan# 2877
Delta R.T. 0.000 min
Lab File: BN034740.D
Acq: 30 Oct 2024 09:20

Tgt Ion:264 Resp: 13293
Ion Ratio Lower Upper
264 100
260 27.0 21.5 32.3
265 63.5 47.5 71.3





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.103 ng

RT: 25.537 min Scan# 30

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

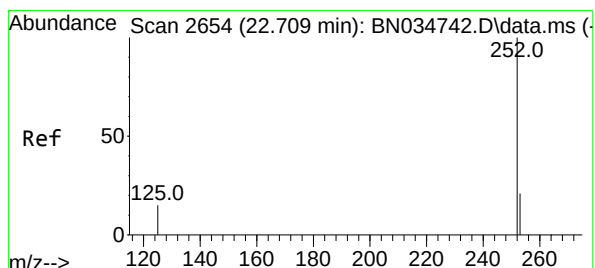
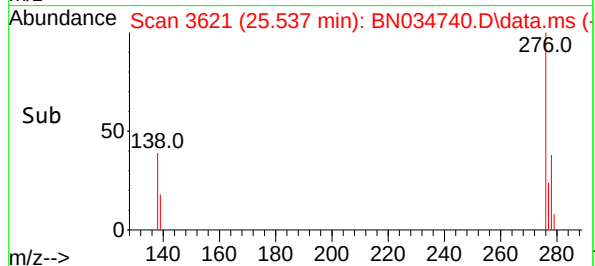
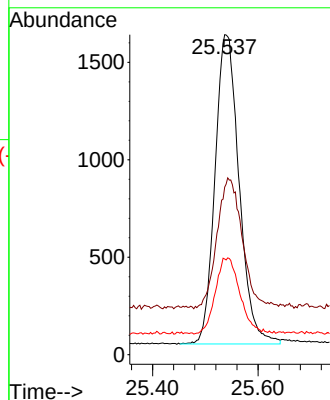
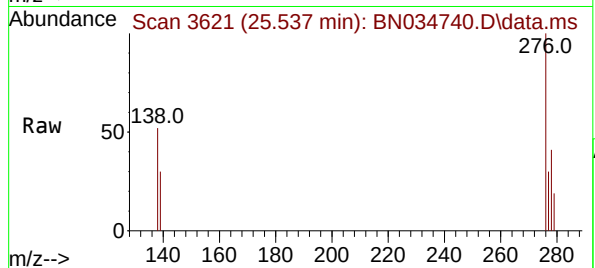
Tgt Ion:276 Resp: 5041

Ion Ratio Lower Upper

276 100

138 44.1 31.5 47.3

277 11.6 19.7 29.5#



#37

Benzo(b)fluoranthene

Concen: 0.099 ng

RT: 22.709 min Scan# 2654

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

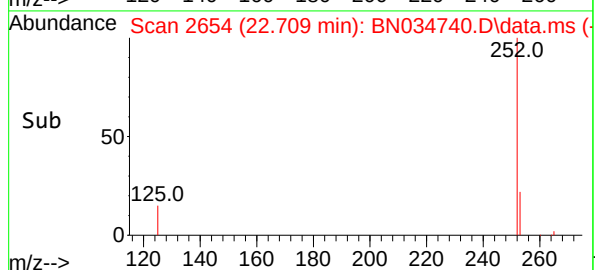
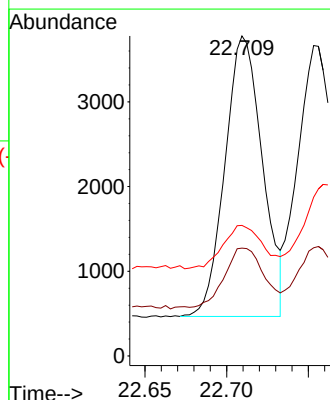
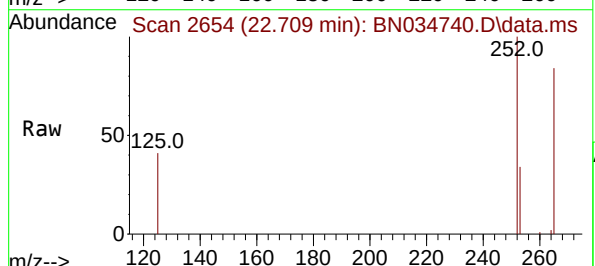
Tgt Ion:252 Resp: 5282

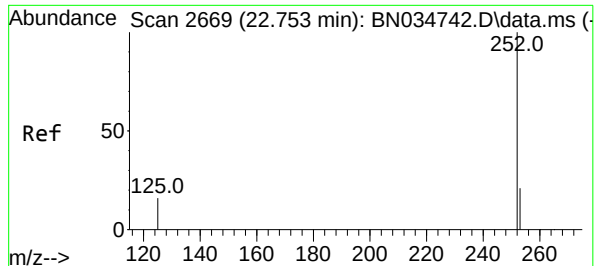
Ion Ratio Lower Upper

252 100

253 33.7 19.7 29.5#

125 40.8 17.1 25.7#





#38

Benzo(k)fluoranthene

Concen: 0.099 ng

RT: 22.753 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

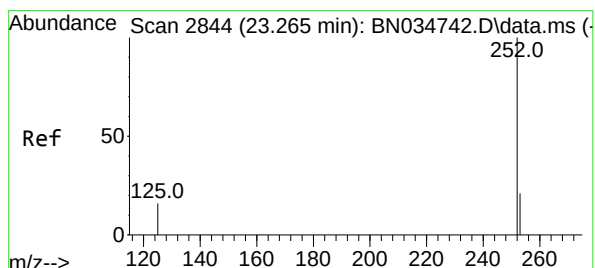
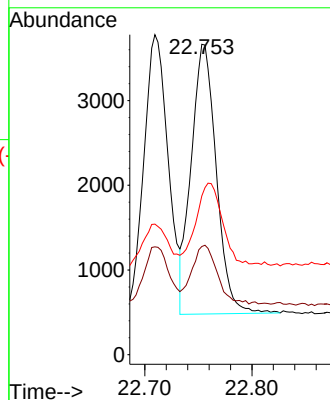
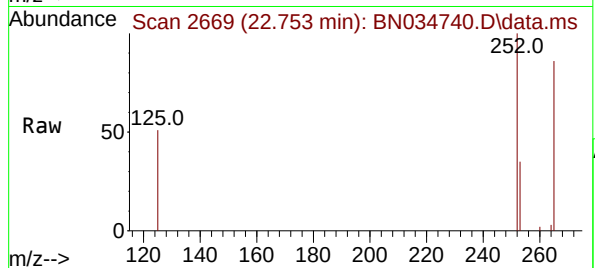
Tgt Ion:252 Resp: 5191

Ion Ratio Lower Upper

252 100

253 34.9 19.8 29.6#

125 51.1 18.2 27.2#



#39

Benzo(a)pyrene

Concen: 0.099 ng

RT: 23.268 min Scan# 2845

Delta R.T. 0.003 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

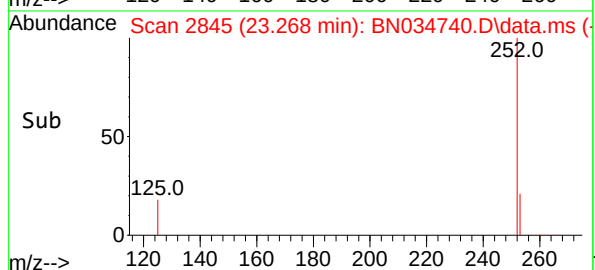
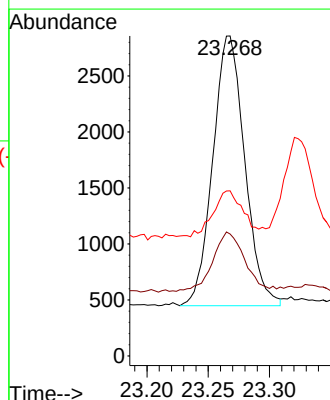
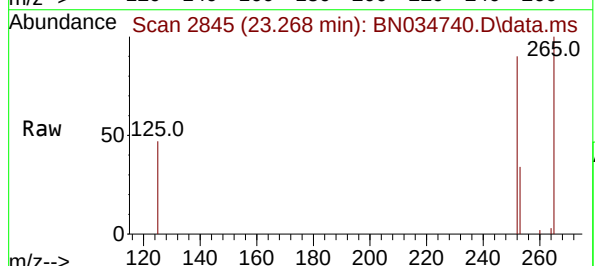
Tgt Ion:252 Resp: 4369

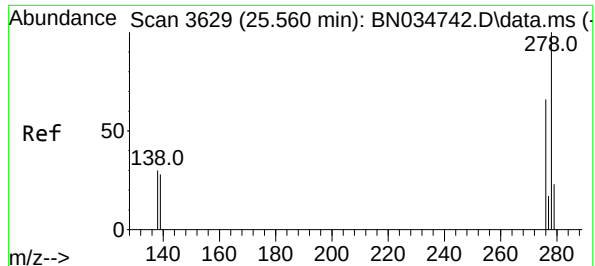
Ion Ratio Lower Upper

252 100

253 38.1 20.7 31.1#

125 51.6 20.3 30.5#





#40

Dibenzo(a,h)anthracene

Concen: 0.104 ng

RT: 25.560 min Scan# 3629

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

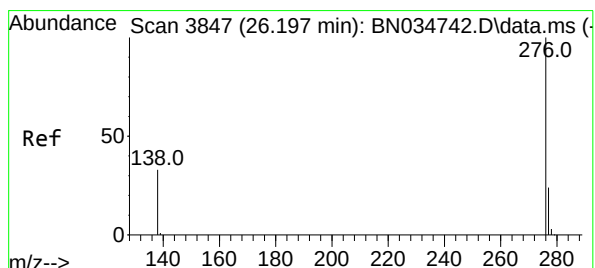
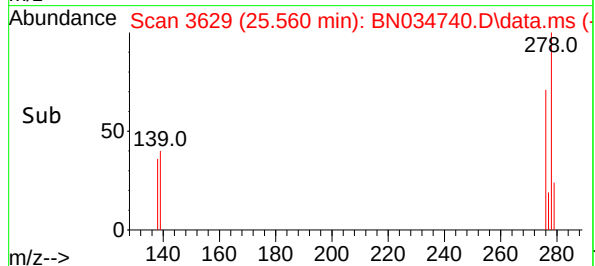
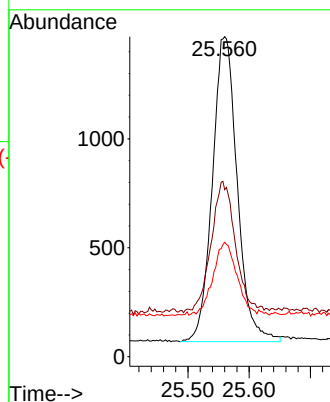
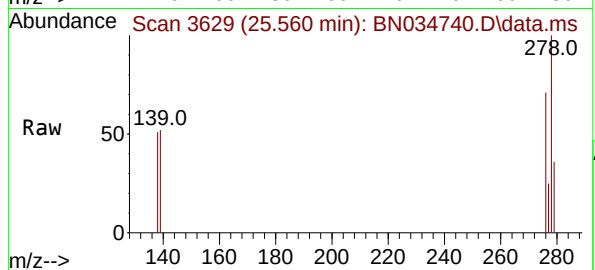
Tgt Ion:278 Resp: 3951

Ion Ratio Lower Upper

278 100

139 52.2 24.9 37.3#

279 35.7 21.0 31.4#



#41

Benzo(g,h,i)perylene

Concen: 0.105 ng

RT: 26.197 min Scan# 3847

Delta R.T. 0.000 min

Lab File: BN034740.D

Acq: 30 Oct 2024 09:20

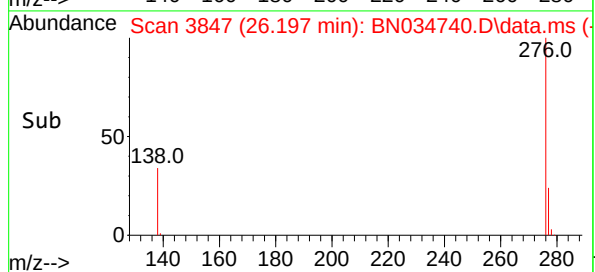
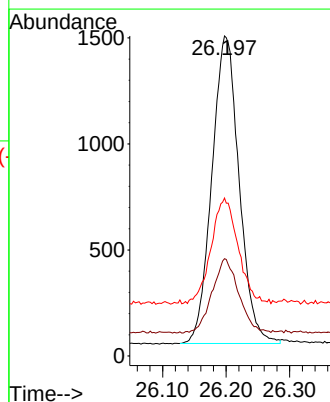
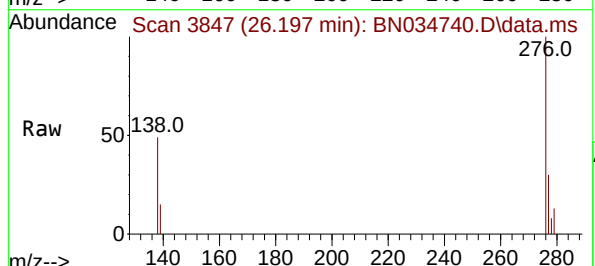
Tgt Ion:276 Resp: 4327

Ion Ratio Lower Upper

276 100

277 30.4 20.2 30.2#

138 49.4 28.7 43.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034741.D
 Acq On : 30 Oct 2024 09:56
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Oct 30 13:31:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

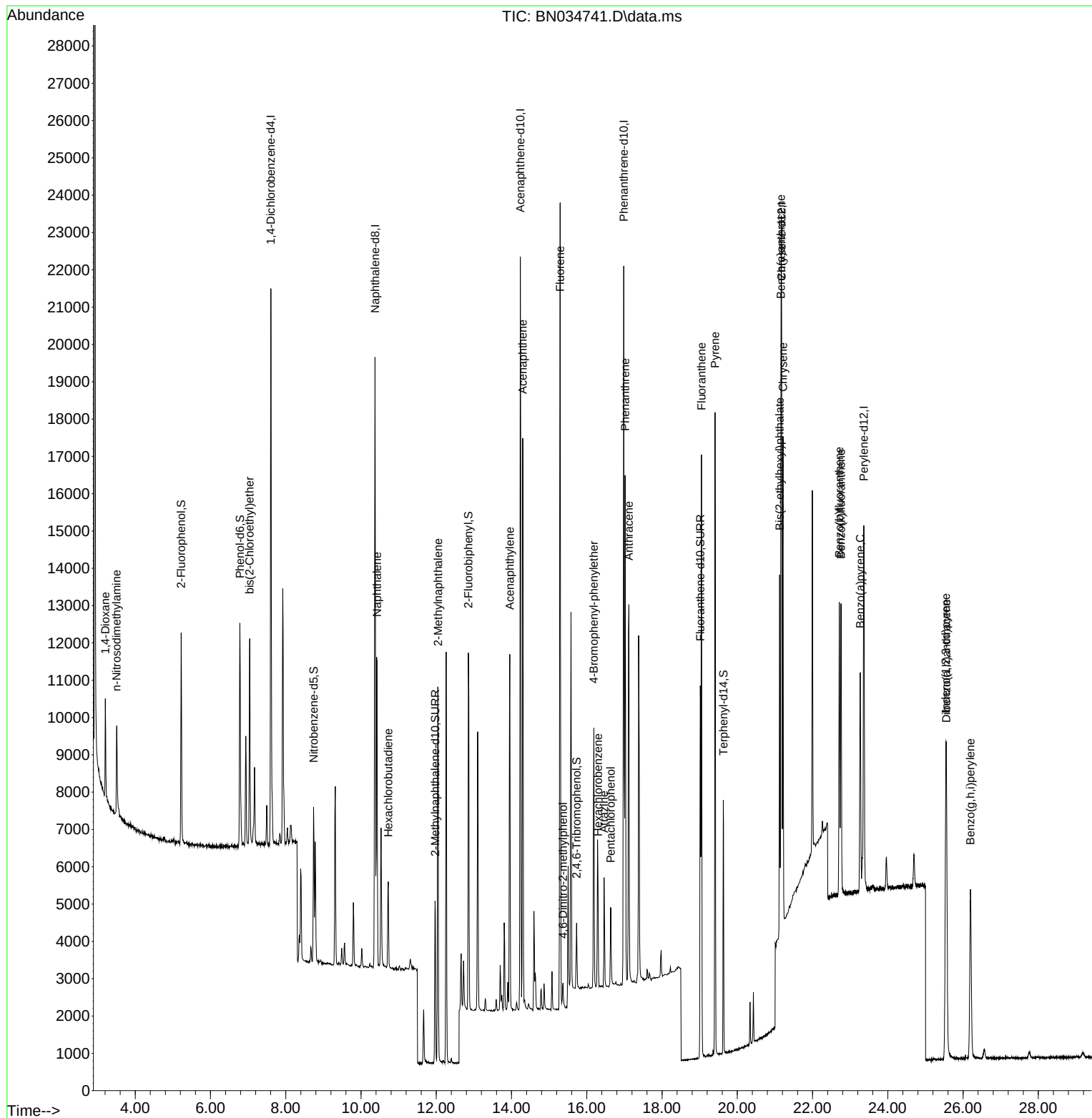
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	6983	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	20698	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	10998	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	22797	0.400	ng	0.00
29) Chrysene-d12	21.178	240	13184	0.400	ng	0.00
35) Perylene-d12	23.361	264	12265	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	4312	0.204	ng	0.00
5) Phenol-d6	6.781	99	5560	0.202	ng	0.00
8) Nitrobenzene-d5	8.739	82	3152	0.194	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	5800	0.194	ng	0.00
14) 2,4,6-Tribromophenol	15.729	330	981	0.181	ng	0.00
15) 2-Fluorobiphenyl	12.854	172	8685	0.200	ng	-0.01
27) Fluoranthene-d10	19.015	212	10060	0.188	ng	0.00
31) Terphenyl-d14	19.629	244	5727	0.202	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.206	88	1539	0.201	ng	99
3) n-Nitrosodimethylamine	3.502	42	1688	0.196	ng	98
6) bis(2-Chloroethyl)ether	7.041	93	3960	0.197	ng	100
9) Naphthalene	10.426	128	11339	0.198	ng	98
10) Hexachlorobutadiene	10.725	225	1887	0.200	ng	# 99
12) 2-Methylnaphthalene	12.045	142	7323	0.196	ng	98
16) Acenaphthylene	13.955	152	10758	0.195	ng	100
17) Acenaphthene	14.297	154	7103	0.193	ng	99
18) Fluorene	15.291	166	8950	0.195	ng	99
20) 4,6-Dinitro-2-methylph...	15.366	198	490	0.292	ng	# 42
21) 4-Bromophenyl-phenylether	16.188	248	2662	0.202	ng	97
22) Hexachlorobenzene	16.300	284	2986	0.202	ng	99
23) Atrazine	16.461	200	2167	0.191	ng	97
24) Pentachlorophenol	16.635	266	1008	0.159	ng	96
25) Phenanthrene	17.019	178	13315	0.199	ng	99
26) Anthracene	17.119	178	12243	0.195	ng	100
28) Fluoranthene	19.048	202	13922	0.188	ng	100
30) Pyrene	19.410	202	14157	0.205	ng	100
32) Benzo(a)anthracene	21.161	228	10110	0.193	ng	100
33) Chrysene	21.214	228	10033	0.195	ng	99
34) Bis(2-ethylhexyl)phtha...	21.125	149	8191	0.187	ng	99
36) Indeno(1,2,3-cd)pyrene	25.543	276	9518	0.211	ng	98
37) Benzo(b)fluoranthene	22.712	252	9196	0.186	ng	# 87
38) Benzo(k)fluoranthene	22.756	252	9145	0.190	ng	# 82
39) Benzo(a)pyrene	23.268	252	7834	0.192	ng	# 84
40) Dibenzo(a,h)anthracene	25.557	278	7423	0.211	ng	# 88
41) Benzo(g,h,i)perylene	26.197	276	8184	0.215	ng	95

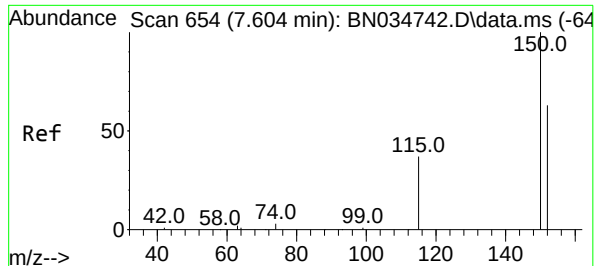
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034741.D
Acq On : 30 Oct 2024 09:56
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Oct 30 13:31:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

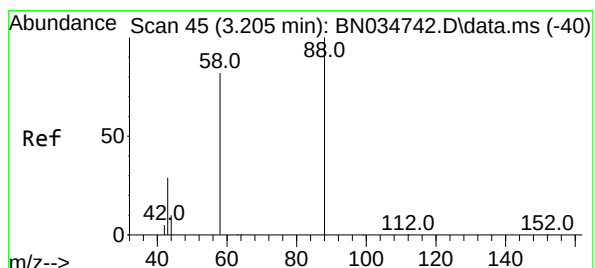
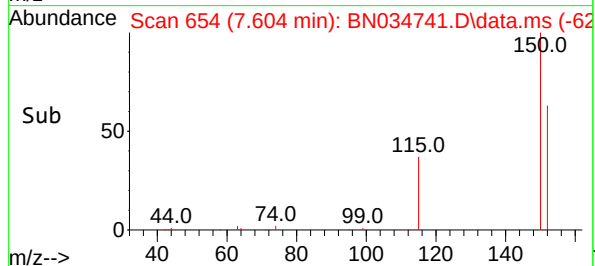
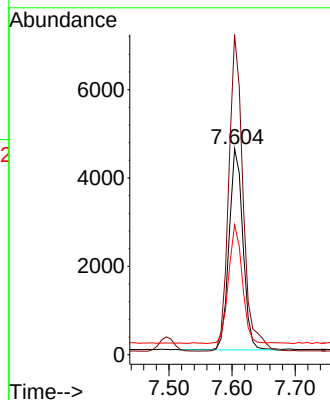
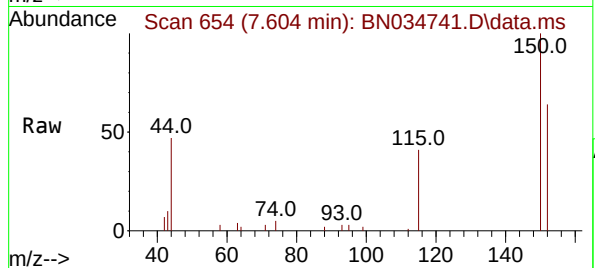




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

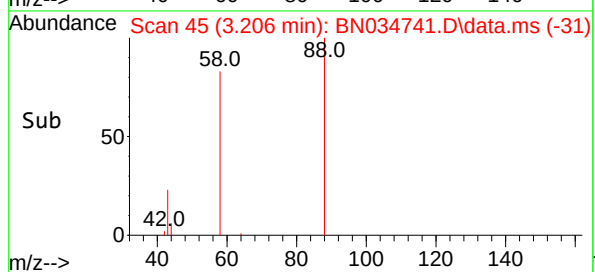
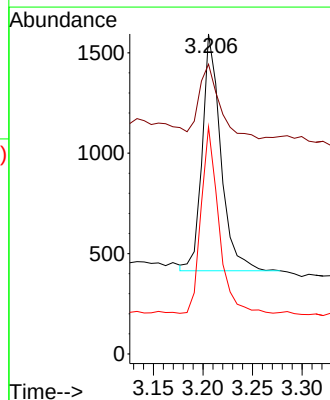
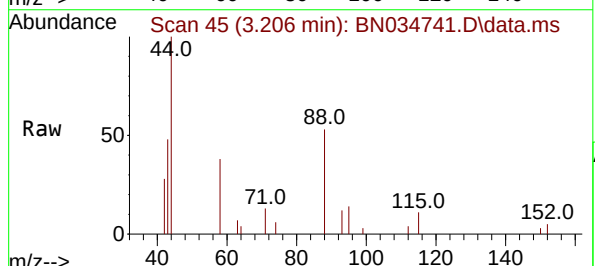
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

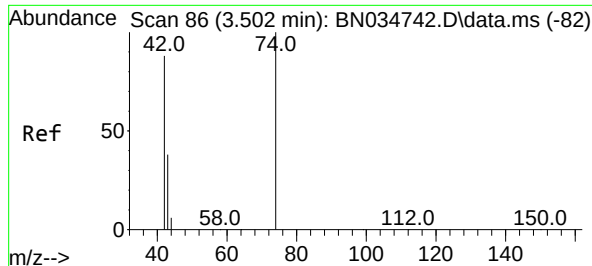
Tgt Ion:152 Resp: 6983
Ion Ratio Lower Upper
152 100
150 155.4 124.9 187.3
115 63.1 50.2 75.2



#2
1,4-Dioxane
Concen: 0.201 ng
RT: 3.206 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion: 88 Resp: 1539
Ion Ratio Lower Upper
88 100
43 33.0 26.7 40.1
58 75.1 59.3 88.9

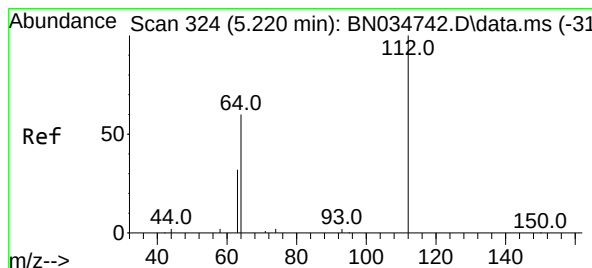
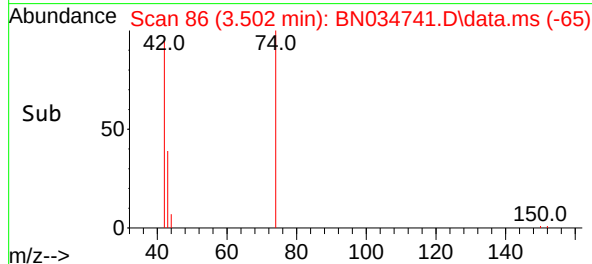
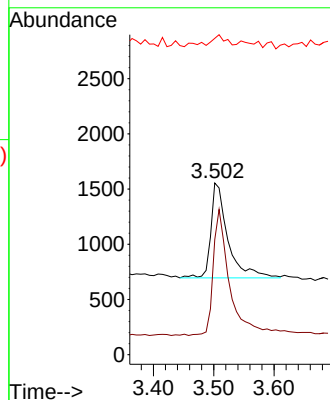
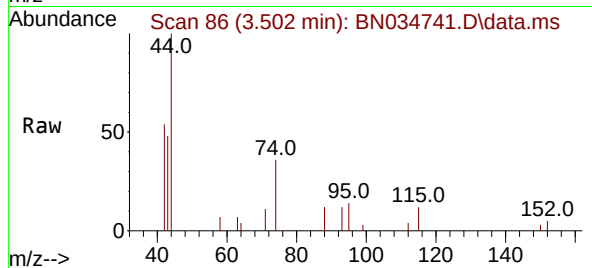




#3
n-Nitrosodimethylamine
Concen: 0.196 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

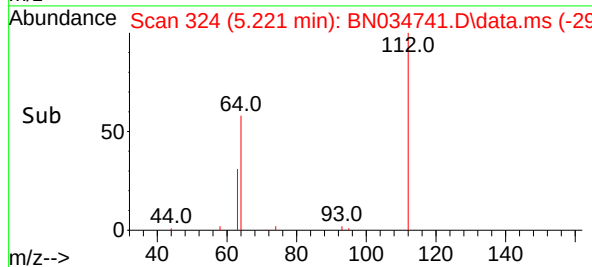
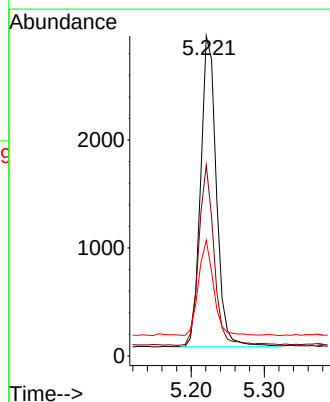
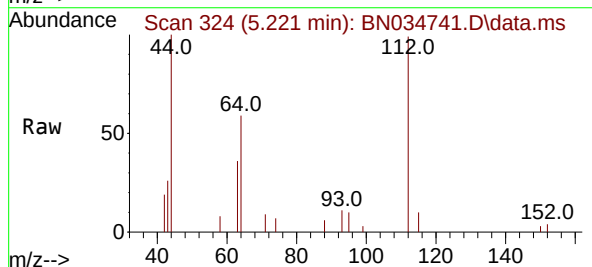
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BNA_N
ClientSampleId :
SSTDICC0.2

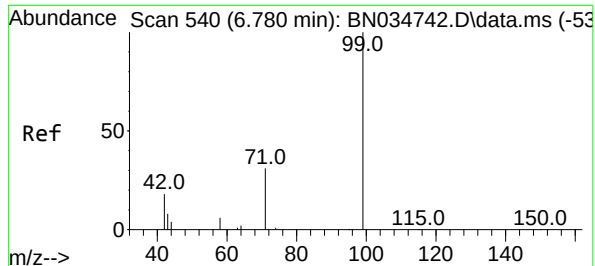
Tgt Ion: 42 Resp: 1688
Ion Ratio Lower Upper
42 100
74 131.2 103.1 154.7
44 9.5 6.7 10.1



#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion: 112 Resp: 4312
Ion Ratio Lower Upper
112 100
64 56.3 44.9 67.3
63 28.8 23.5 35.3

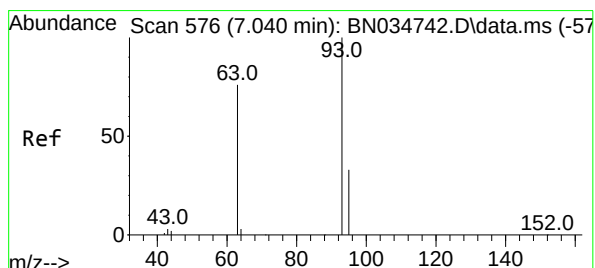
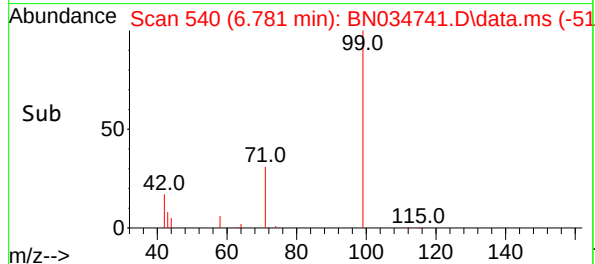
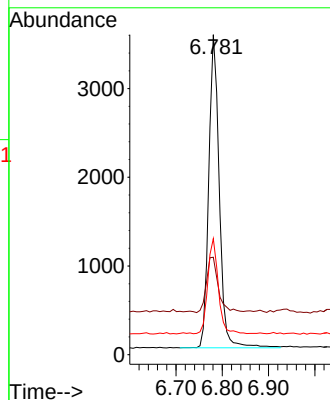
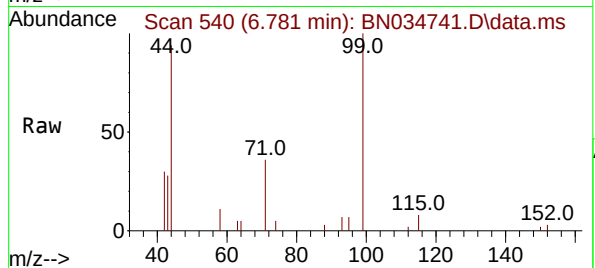




#5
Phenol-d6
Concen: 0.202 ng
RT: 6.781 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

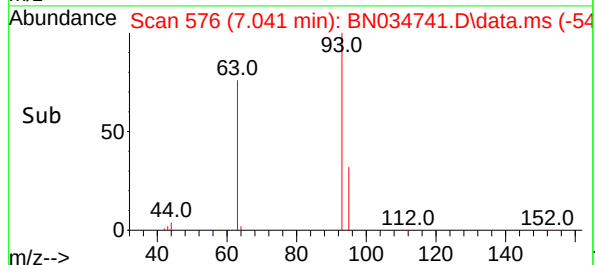
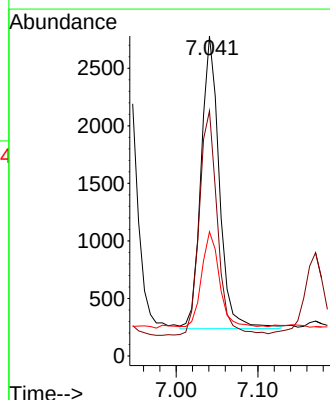
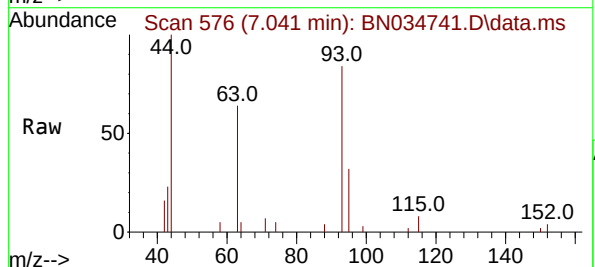
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BNA_N
ClientSampleId :
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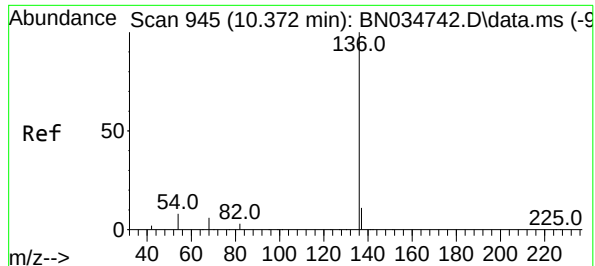
Tgt Ion: 99 Resp: 5560
Ion Ratio Lower Upper
99 100
42 20.1 15.9 23.9
71 30.2 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.197 ng
RT: 7.041 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion: 93 Resp: 3960
Ion Ratio Lower Upper
93 100
63 76.6 61.2 91.8
95 32.2 25.8 38.8

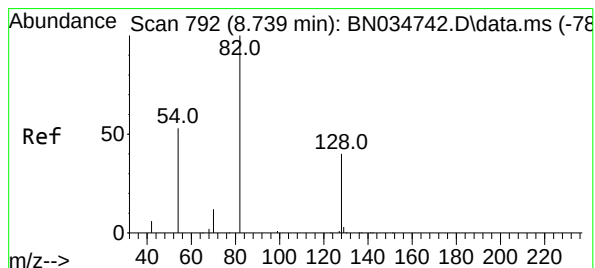
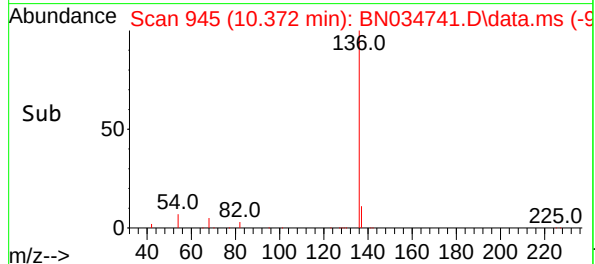
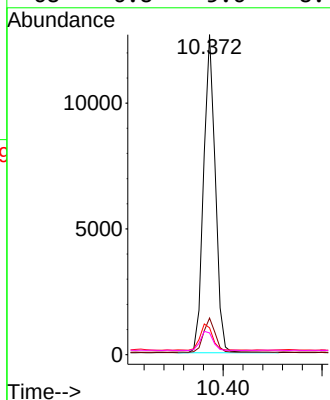
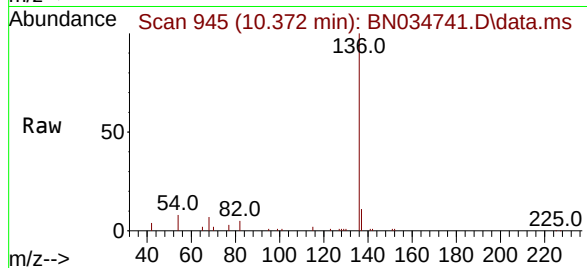




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

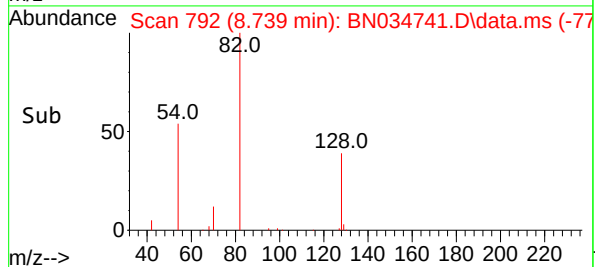
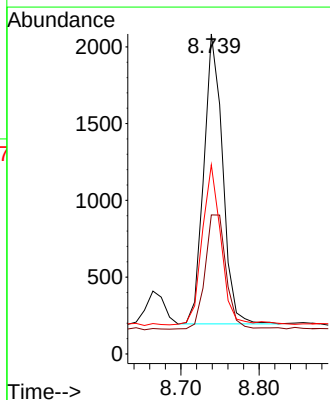
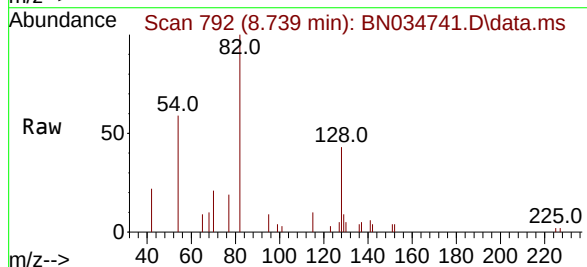
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ClientSampleId :
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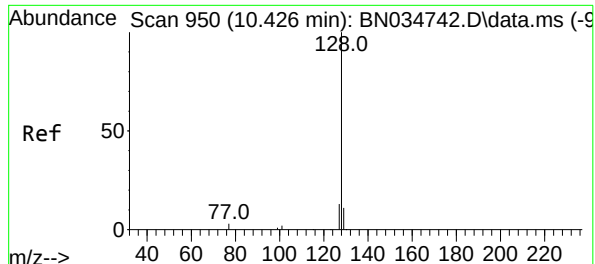
Tgt Ion:	136	Resp:	20698
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	8.4	7.0	10.4
68	6.8	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.194 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:	82	Resp:	3152
Ion	Ratio	Lower	Upper
82	100		
128	43.4	33.7	50.5
54	59.1	44.4	66.6

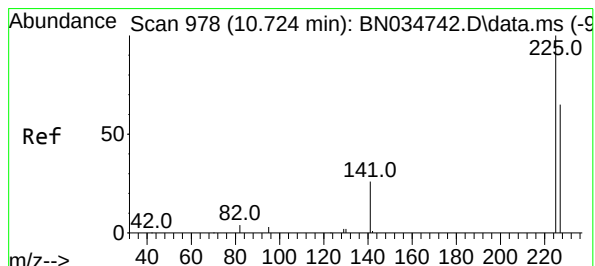
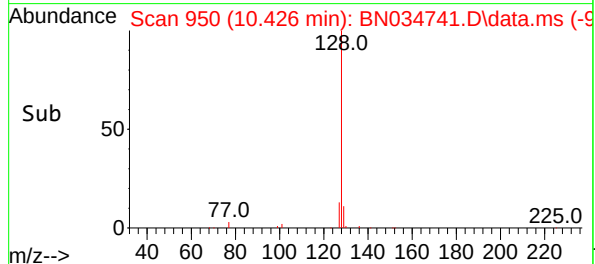
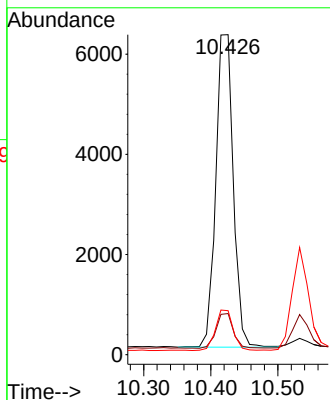
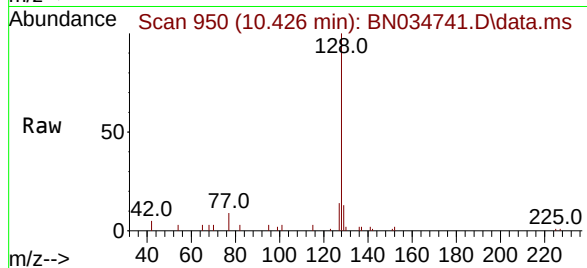




#9
Naphthalene
Concen: 0.198 ng
RT: 10.426 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

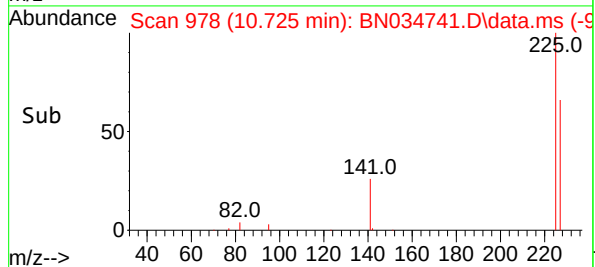
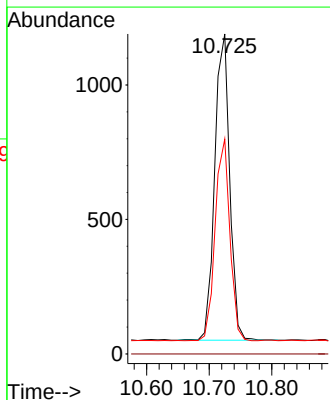
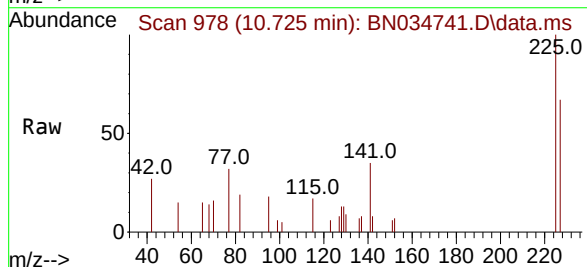
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

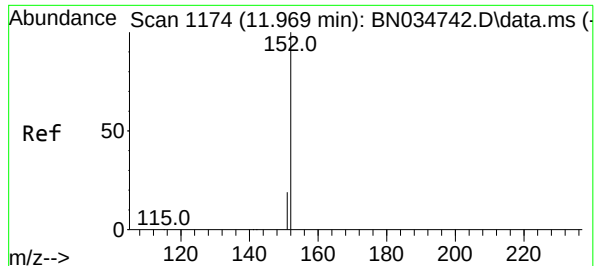
Tgt Ion:128 Resp: 11339
Ion Ratio Lower Upper
128 100
129 12.9 9.4 14.0
127 13.7 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.725 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:225 Resp: 1887
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.0 51.4 77.2

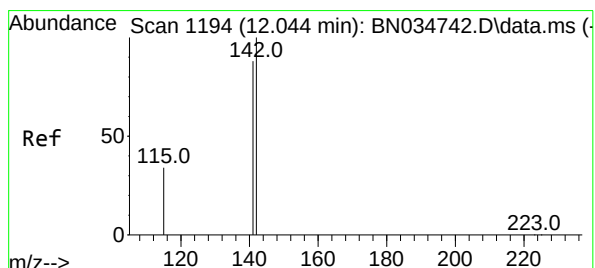
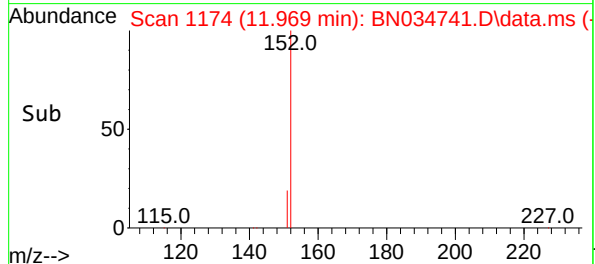
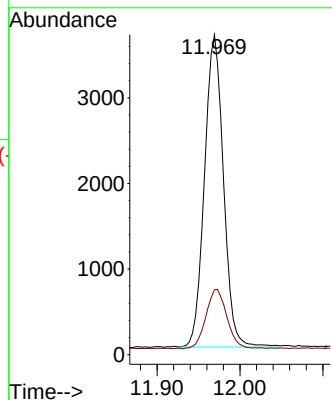
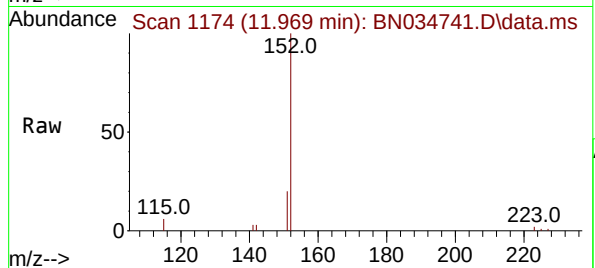




#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

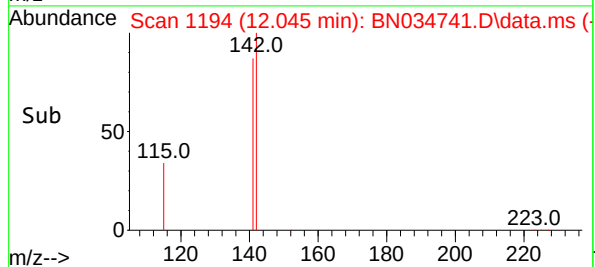
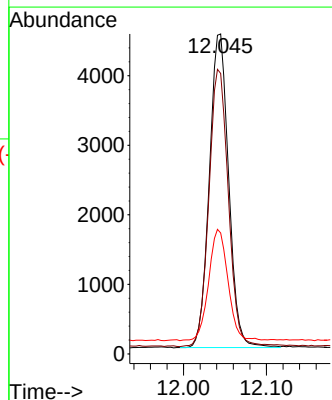
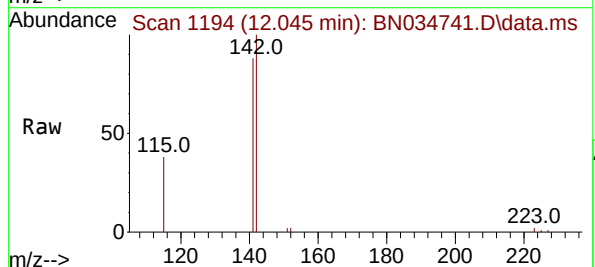
Instrument :
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ClientSampleId :
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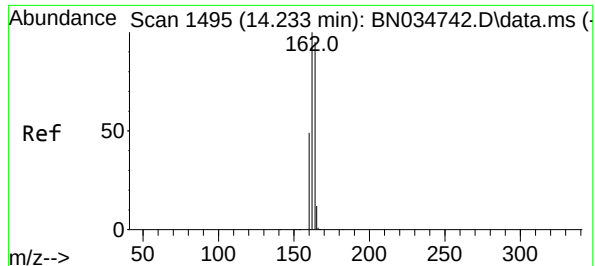
Tgt Ion:152 Resp: 5800
Ion Ratio Lower Upper
152 100
151 20.9 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.196 ng
RT: 12.045 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:142 Resp: 7323
Ion Ratio Lower Upper
142 100
141 87.6 70.6 106.0
115 37.8 28.6 42.8

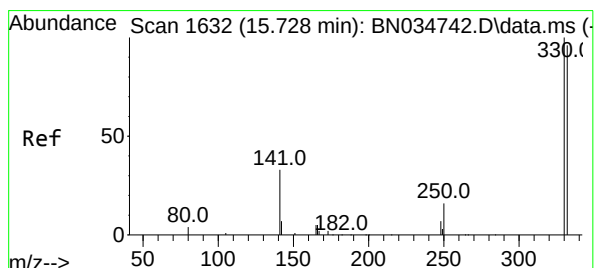
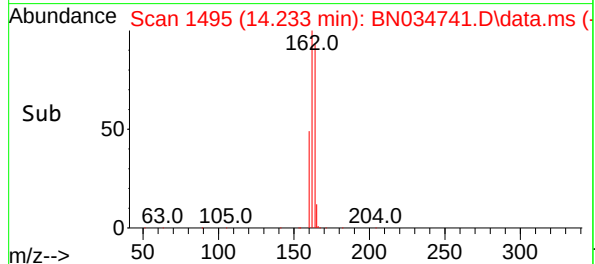
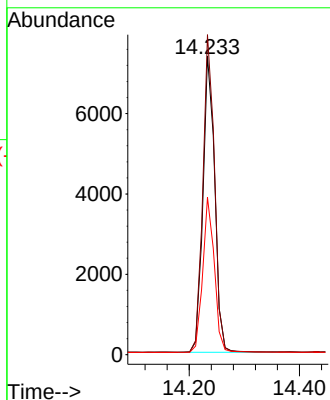
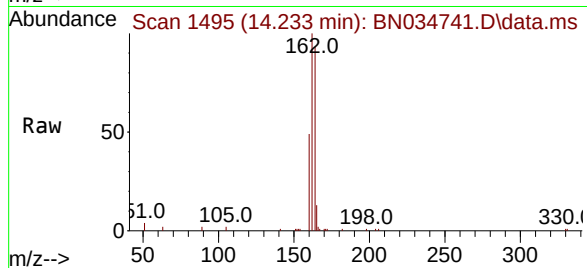




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

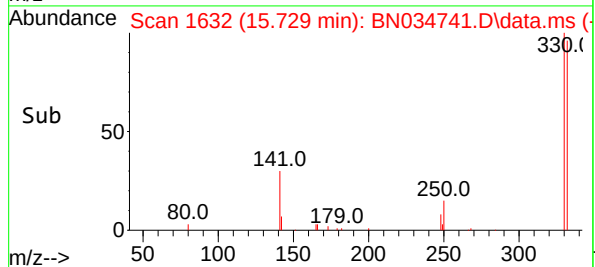
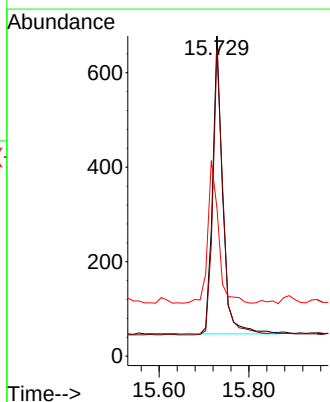
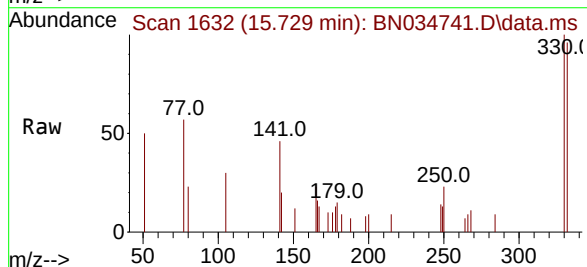
Instrument :
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ClientSampleId :
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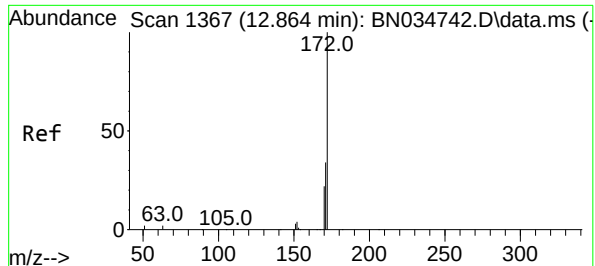
Tgt Ion:164 Resp: 10998
Ion Ratio Lower Upper
164 100
162 107.1 84.3 126.5
160 52.6 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.181 ng
RT: 15.729 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:330 Resp: 981
Ion Ratio Lower Upper
330 100
332 96.8 77.8 116.6
141 50.6 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 0.200 ng

RT: 12.854 min Scan# 1366

Delta R.T. -0.010 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

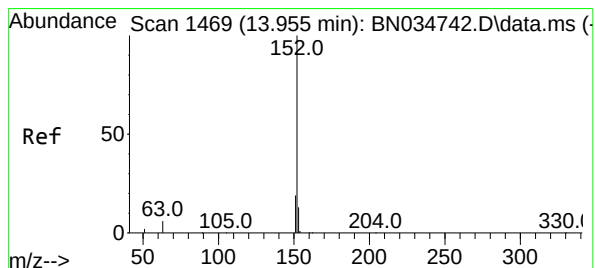
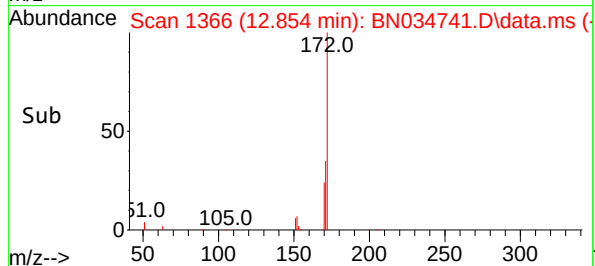
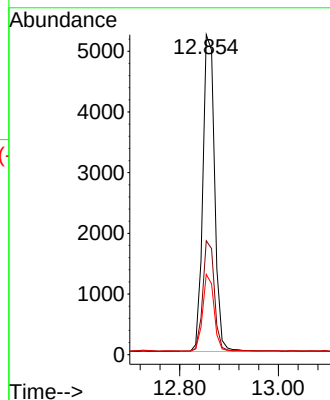
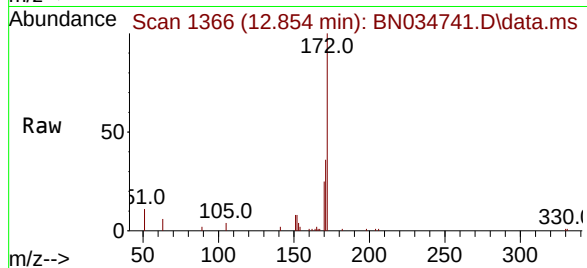
Tgt Ion:172 Resp: 8685

Ion Ratio Lower Upper

172 100

171 35.6 27.2 40.8

170 25.1 18.0 27.0



#16

Acenaphthylene

Concen: 0.195 ng

RT: 13.955 min Scan# 1469

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

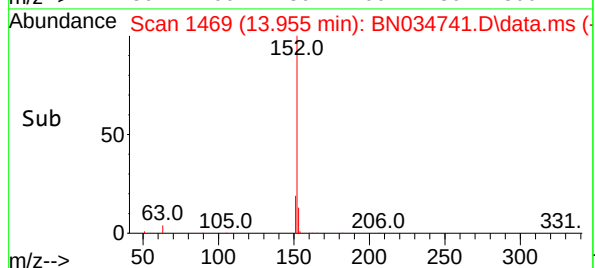
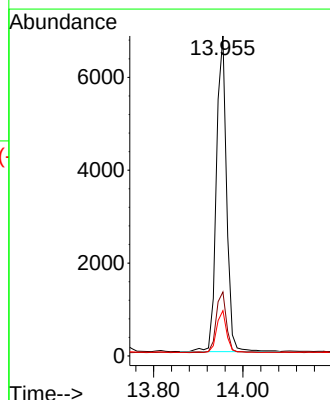
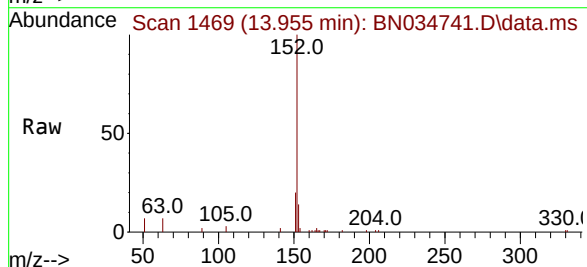
Tgt Ion:152 Resp: 10758

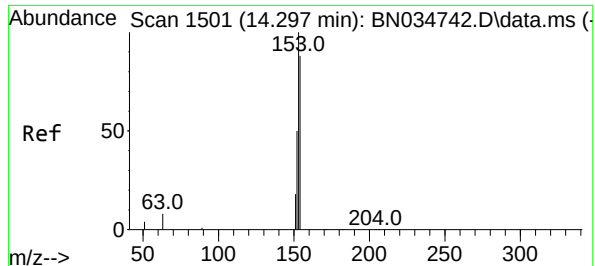
Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.2

153 13.0 10.2 15.4

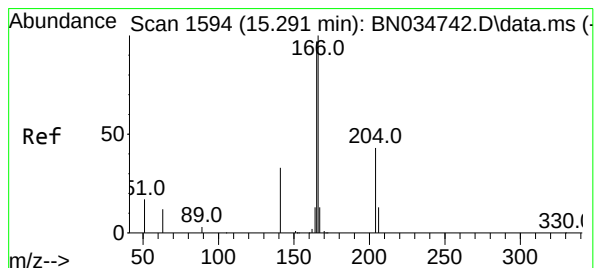
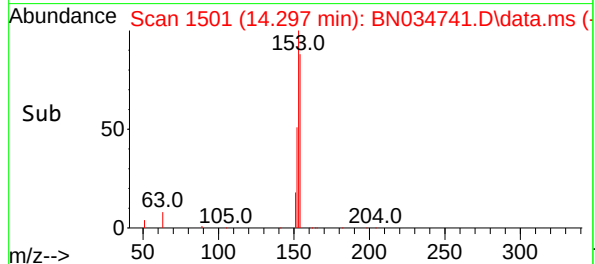
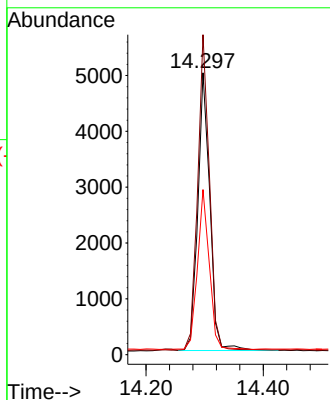
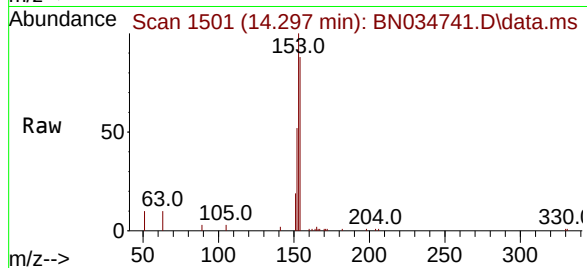




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

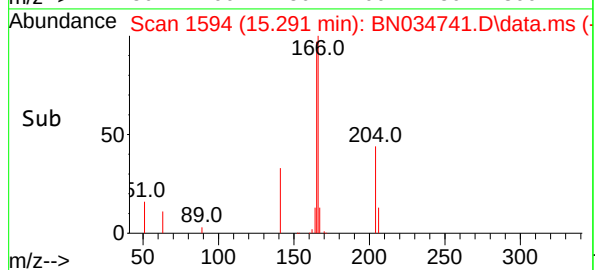
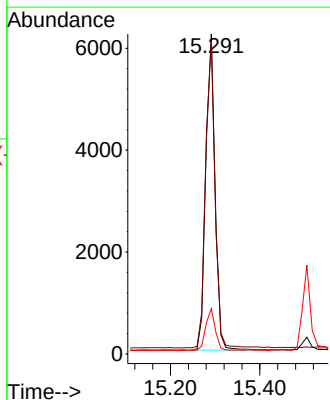
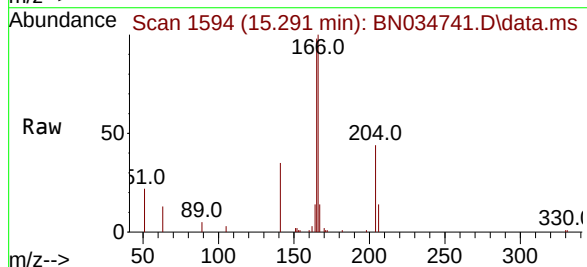
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

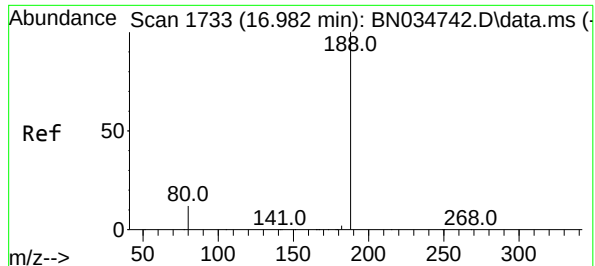
Tgt Ion:154 Resp: 7103
Ion Ratio Lower Upper
154 100
153 111.4 87.8 131.6
152 56.7 44.6 67.0



#18
Fluorene
Concen: 0.195 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:166 Resp: 8950
Ion Ratio Lower Upper
166 100
165 98.8 78.5 117.7
167 13.8 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

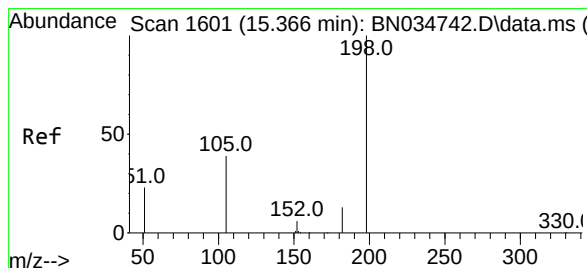
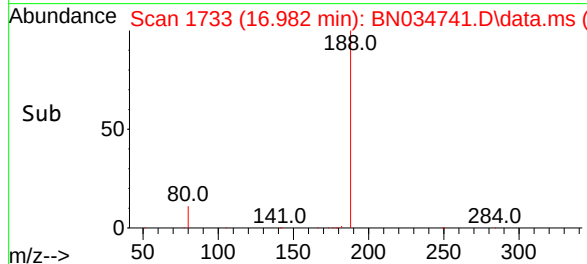
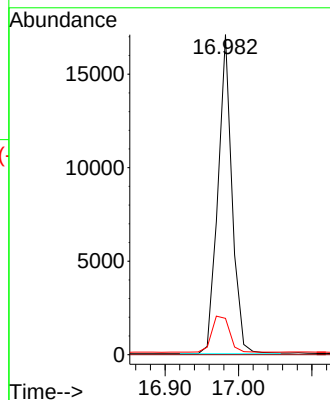
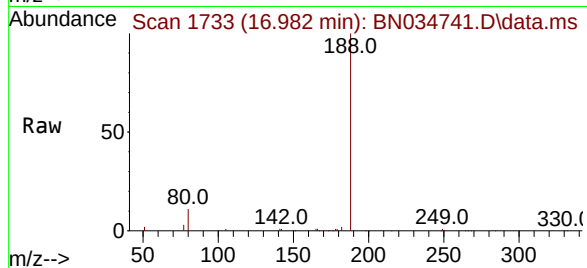
Tgt Ion:188 Resp: 22797

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.292 ng

RT: 15.366 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

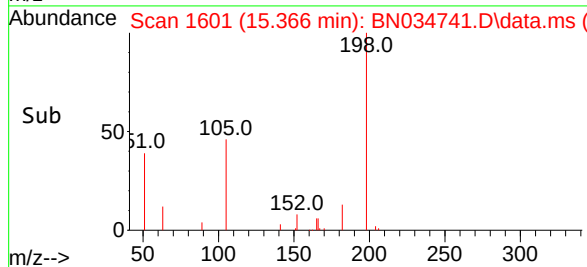
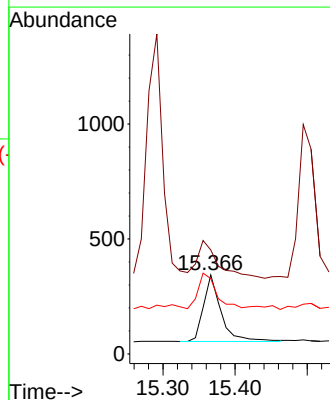
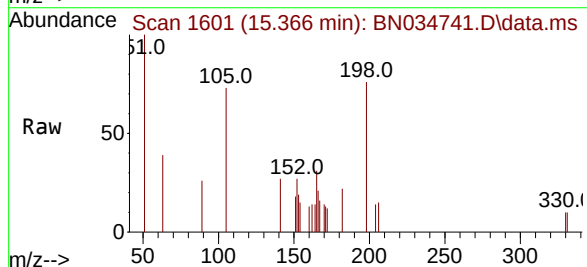
Tgt Ion:198 Resp: 490

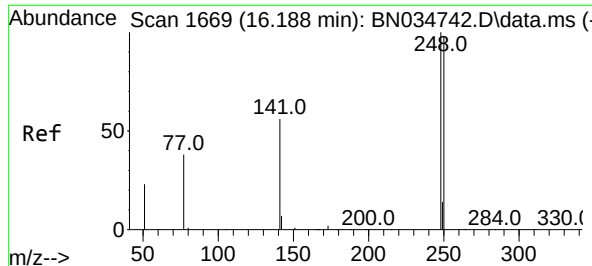
Ion Ratio Lower Upper

198 100

51 131.4 58.0 87.0#

105 95.3 49.1 73.7#

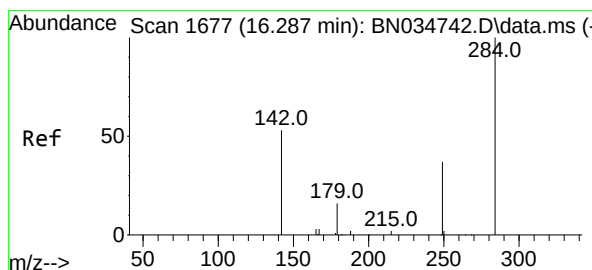
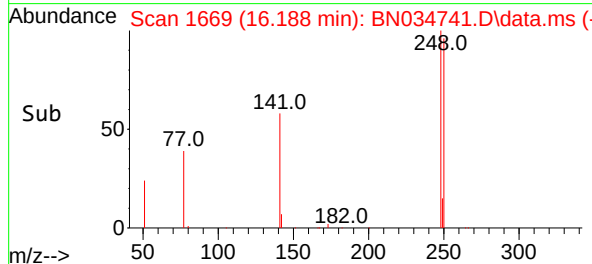
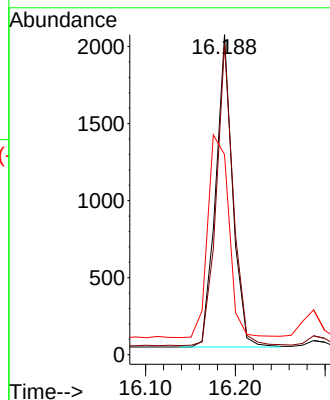
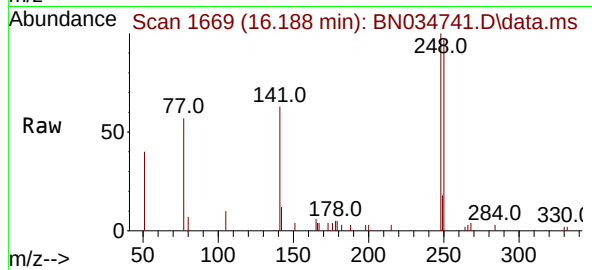




#21
4-Bromophenyl-phenylether
Concen: 0.202 ng
RT: 16.188 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

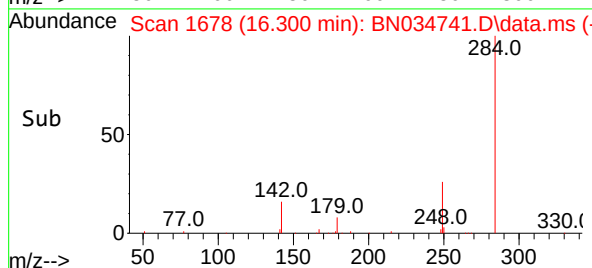
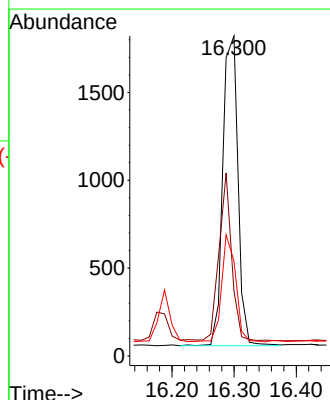
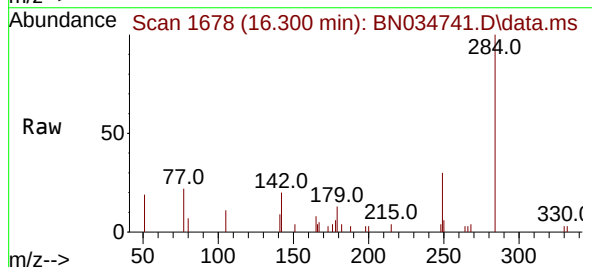
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

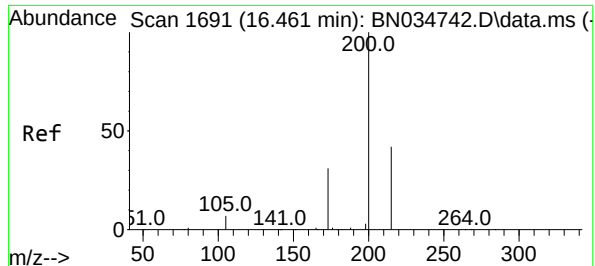
Tgt Ion:248 Resp: 2662
Ion Ratio Lower Upper
248 100
250 97.2 78.7 118.1
141 62.5 46.4 69.6



#22
Hexachlorobenzene
Concen: 0.202 ng
RT: 16.300 min Scan# 1678
Delta R.T. 0.013 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:284 Resp: 2986
Ion Ratio Lower Upper
284 100
142 44.9 35.4 53.0
249 32.0 25.7 38.5





#23

Atrazine

Concen: 0.191 ng

RT: 16.461 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

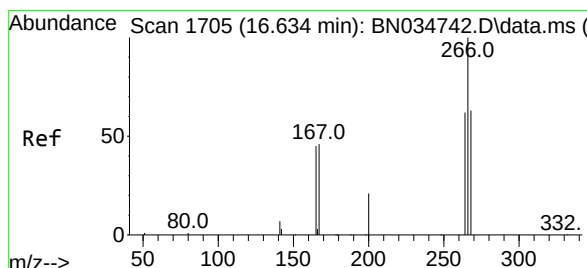
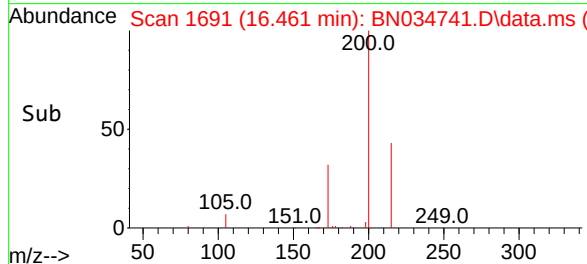
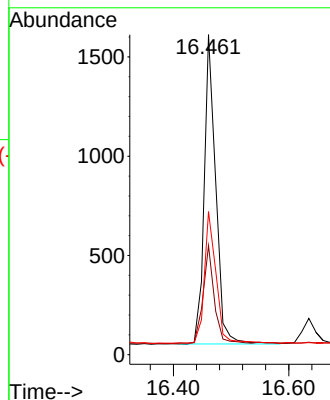
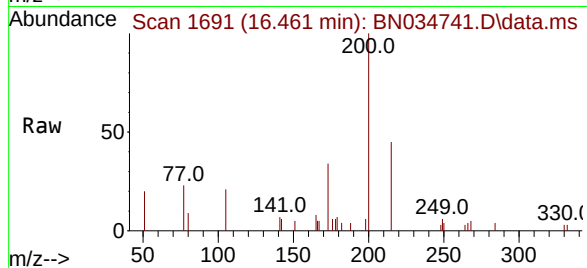
Tgt Ion:200 Resp: 2167

Ion Ratio Lower Upper

200 100

173 34.1 25.8 38.6

215 44.7 34.2 51.4



#24

Pentachlorophenol

Concen: 0.159 ng

RT: 16.635 min Scan# 1705

Delta R.T. 0.001 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

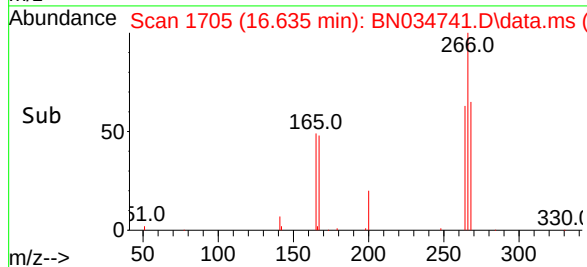
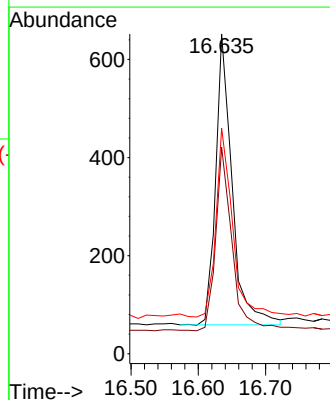
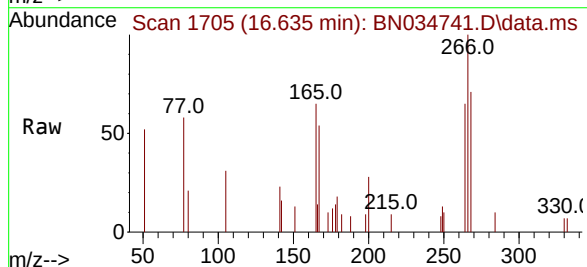
Tgt Ion:266 Resp: 1008

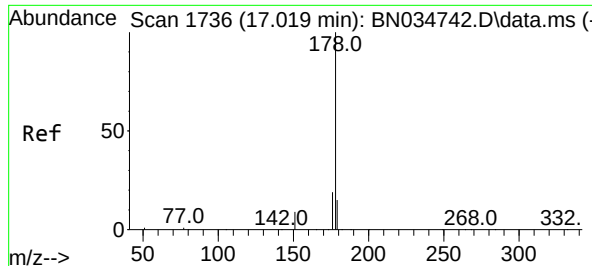
Ion Ratio Lower Upper

266 100

264 63.5 48.7 73.1

268 67.1 50.2 75.4

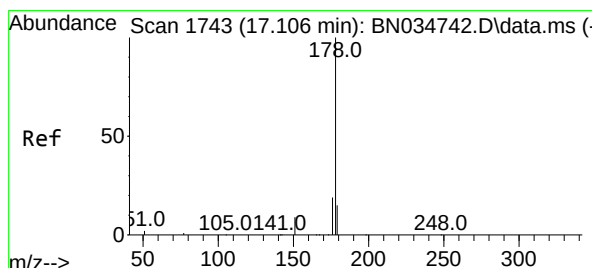
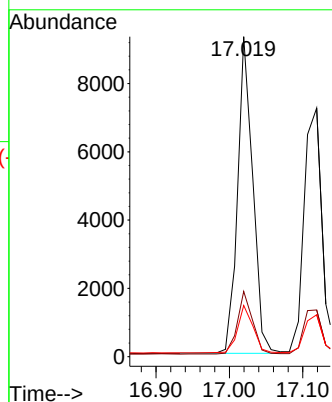
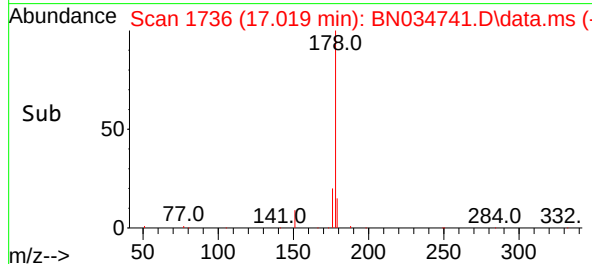
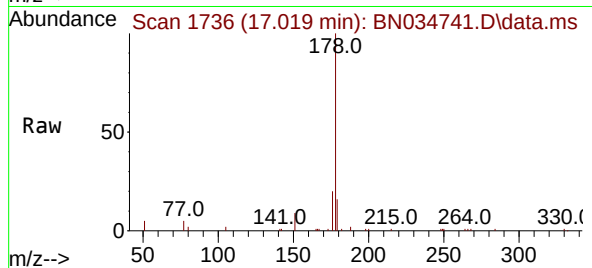




#25
Phenanthrene
Concen: 0.199 ng
RT: 17.019 min Scan# 1736
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

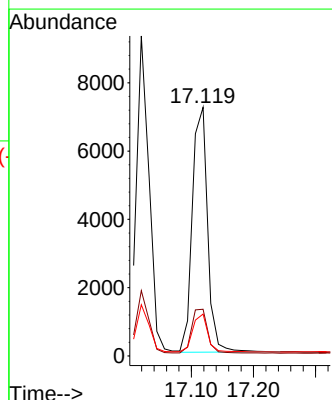
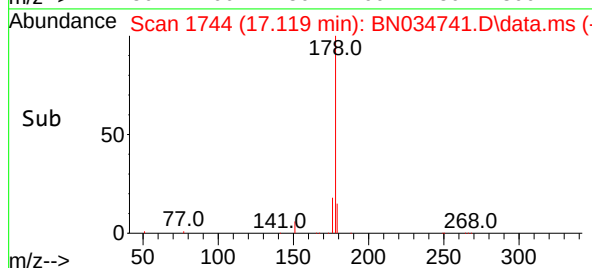
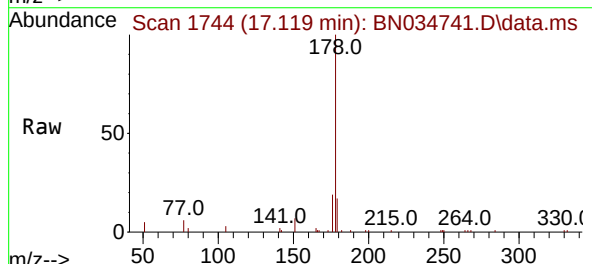
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

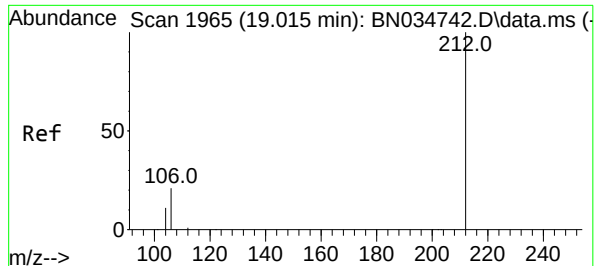
Tgt Ion:178 Resp: 13315
Ion Ratio Lower Upper
178 100
176 19.8 15.4 23.0
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.195 ng
RT: 17.119 min Scan# 1744
Delta R.T. 0.013 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:178 Resp: 12243
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.4 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

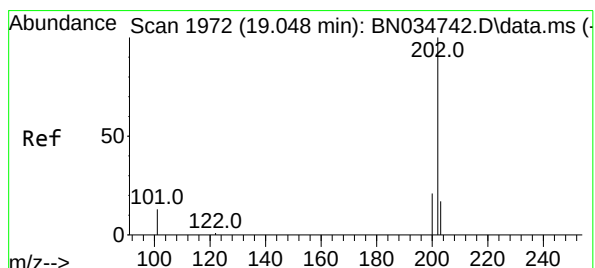
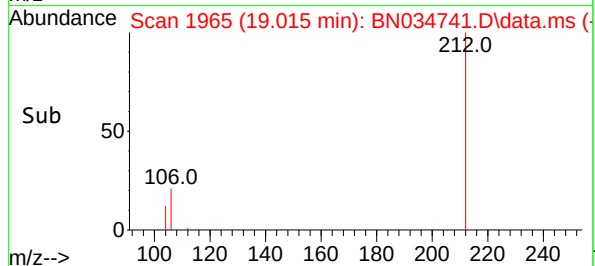
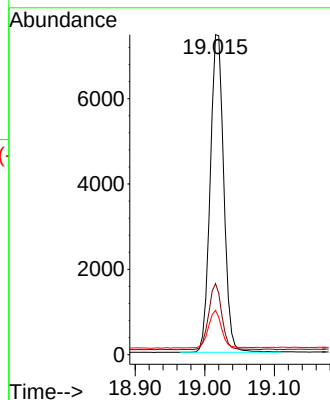
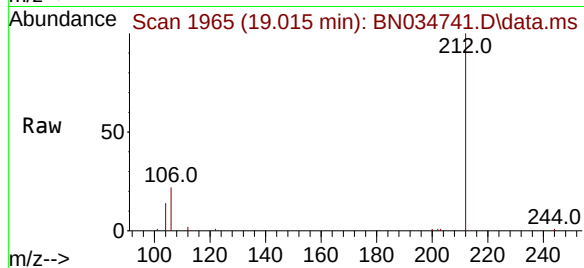
Tgt Ion:212 Resp: 10060

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.5 9.2 13.8



#28

Fluoranthene

Concen: 0.188 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

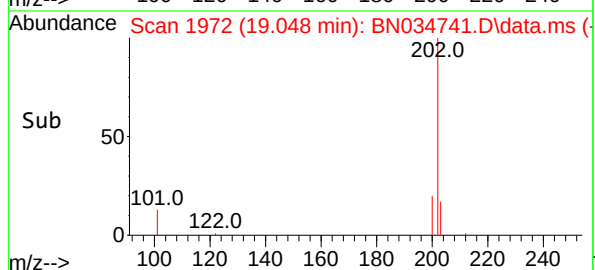
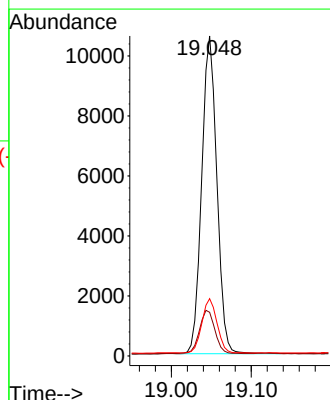
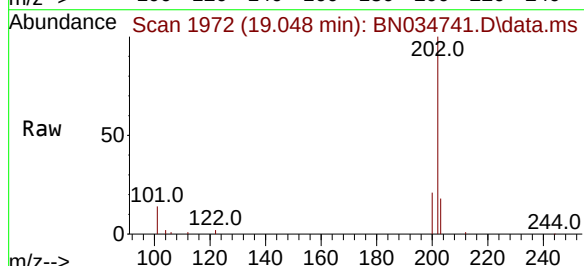
Tgt Ion:202 Resp: 13922

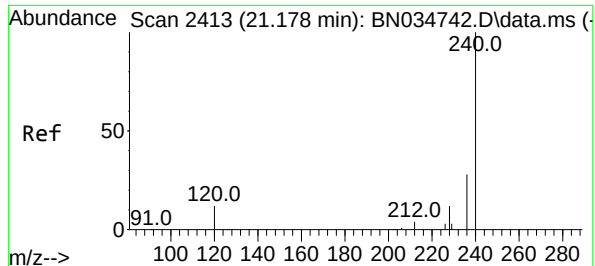
Ion Ratio Lower Upper

202 100

101 14.2 11.4 17.0

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

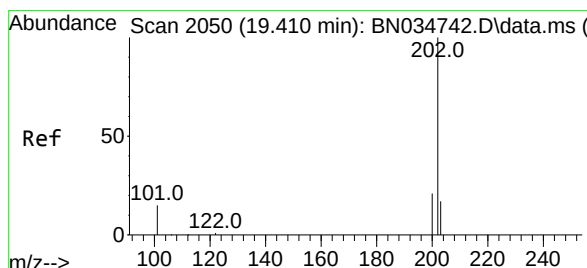
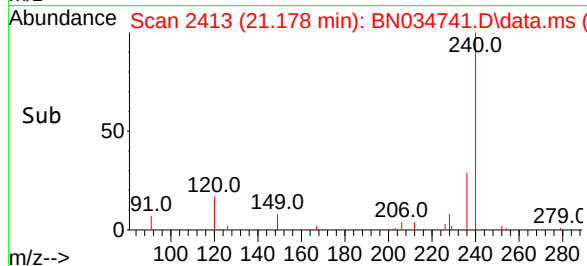
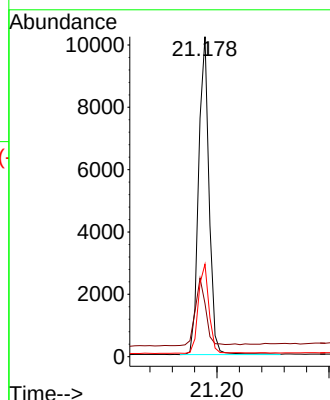
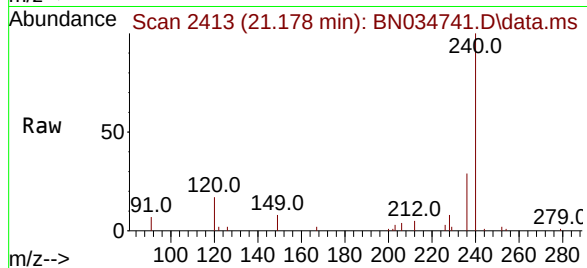
Tgt Ion:240 Resp: 13184

Ion Ratio Lower Upper

240 100

120 16.6 11.5 17.3

236 28.9 23.2 34.8



#30

Pyrene

Concen: 0.205 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

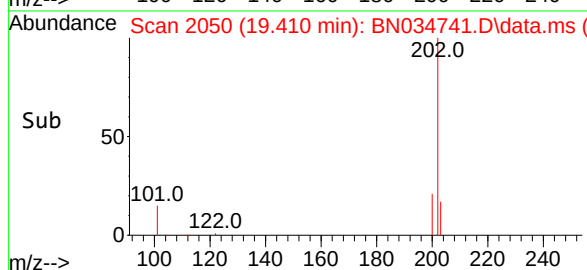
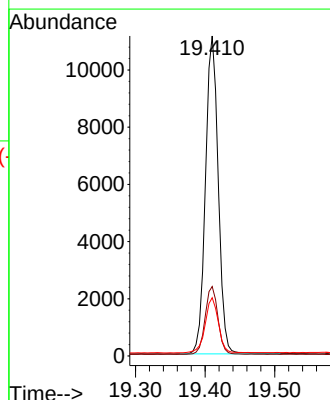
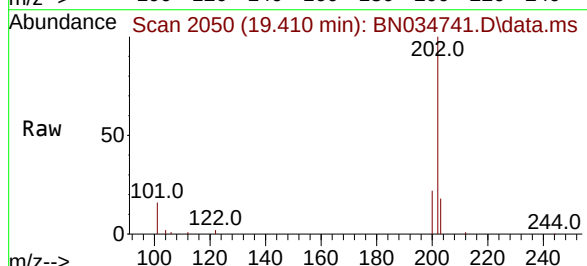
Tgt Ion:202 Resp: 14157

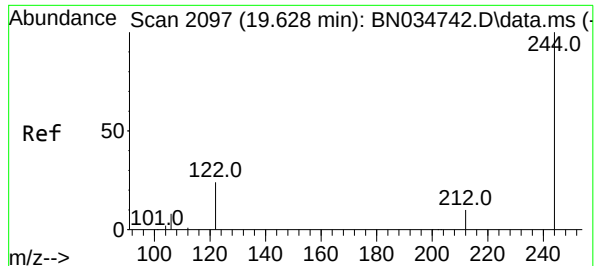
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 18.1 14.2 21.2

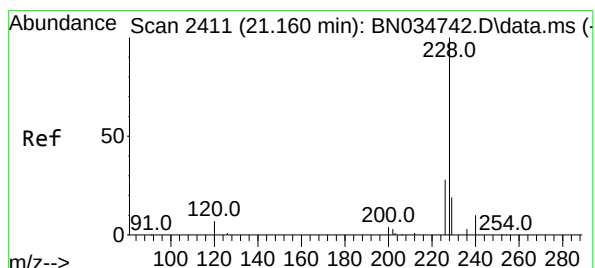
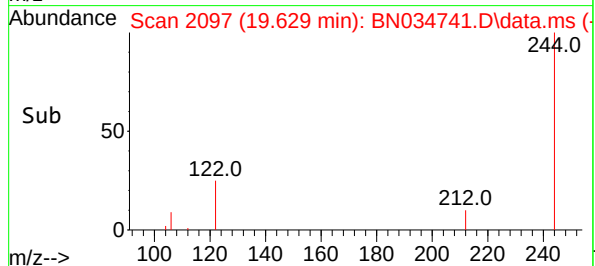
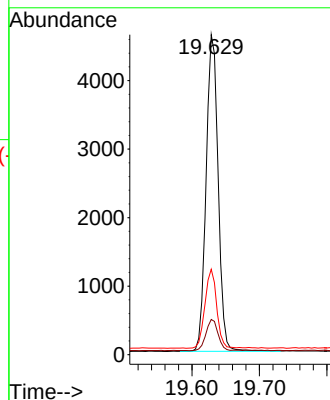
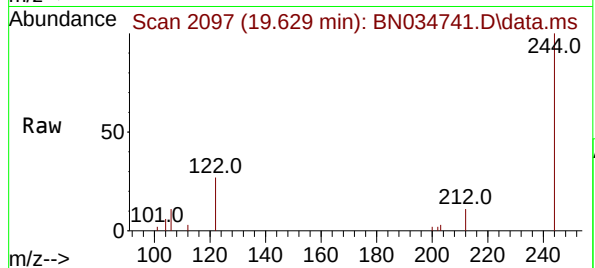




#31
Terphenyl-d14
Concen: 0.202 ng
RT: 19.629 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

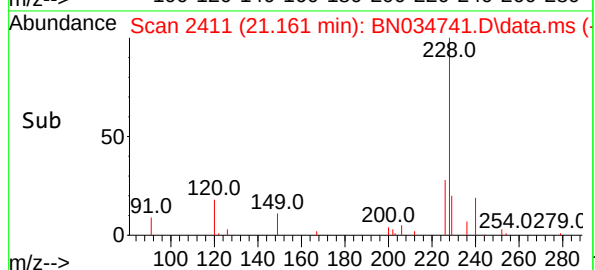
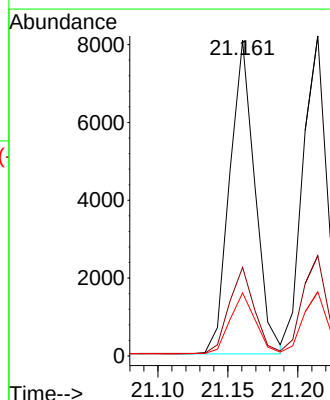
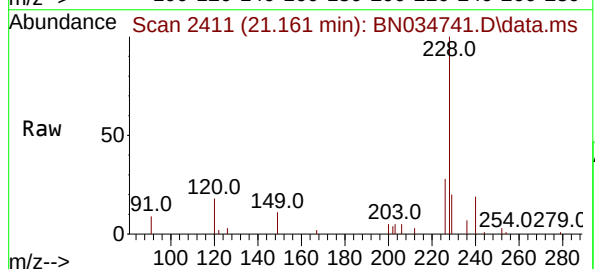
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

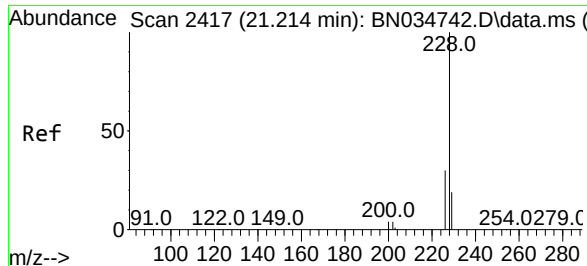
Tgt Ion:244 Resp: 5727
Ion Ratio Lower Upper
244 100
212 11.0 8.2 12.4
122 26.7 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.161 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034741.D
Acq: 30 Oct 2024 09:56

Tgt Ion:228 Resp: 10110
Ion Ratio Lower Upper
228 100
226 28.1 22.6 33.8
229 20.0 15.7 23.5





#33

Chrysene

Concen: 0.195 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

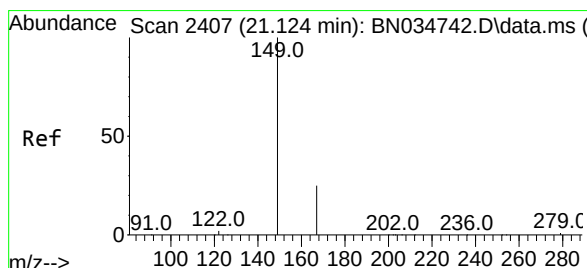
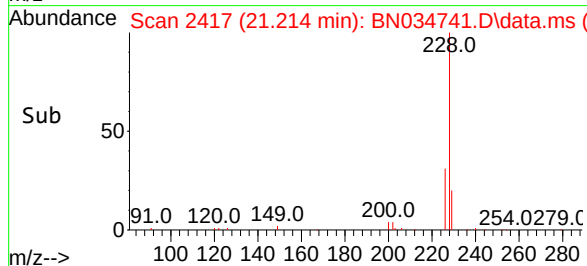
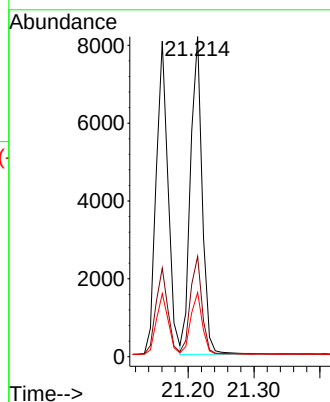
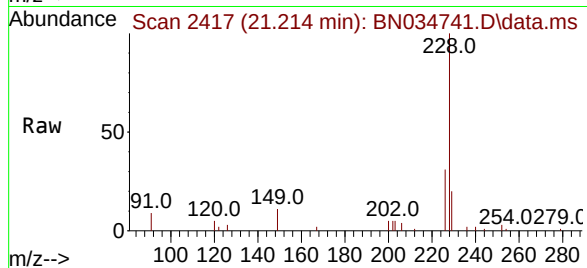
Tgt Ion:228 Resp: 10033

Ion Ratio Lower Upper

228 100

226 31.4 24.4 36.6

229 20.1 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.187 ng

RT: 21.125 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

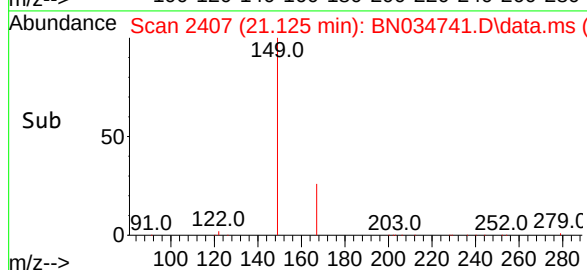
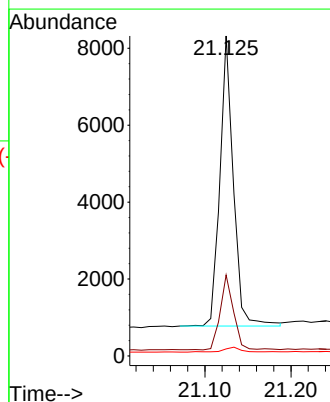
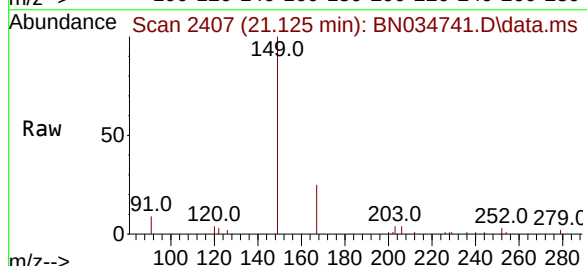
Tgt Ion:149 Resp: 8191

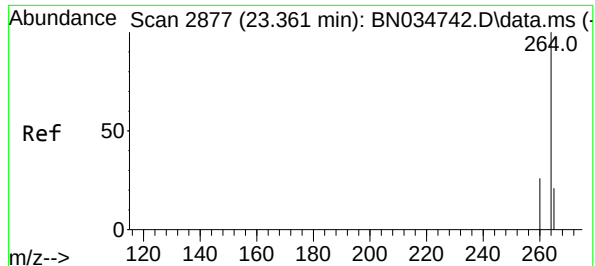
Ion Ratio Lower Upper

149 100

167 25.3 20.6 30.8

279 2.1 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.361 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

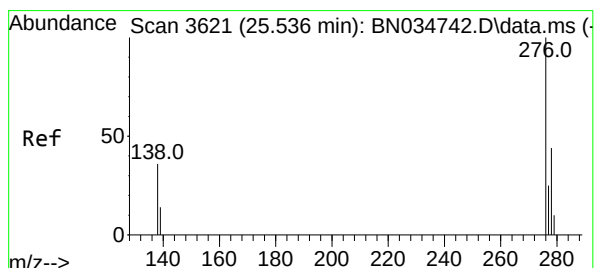
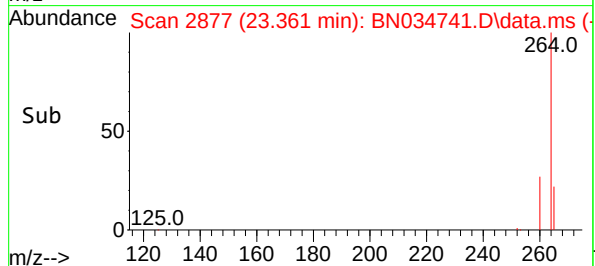
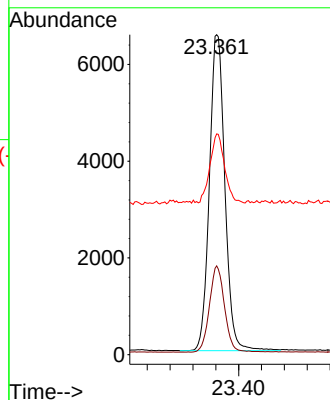
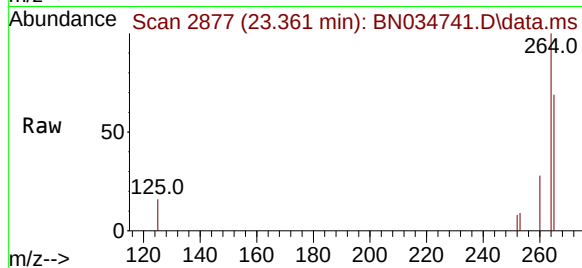
Tgt Ion:264 Resp: 12265

Ion Ratio Lower Upper

264 100

260 27.7 21.5 32.3

265 69.0 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.211 ng

RT: 25.543 min Scan# 3623

Delta R.T. 0.006 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

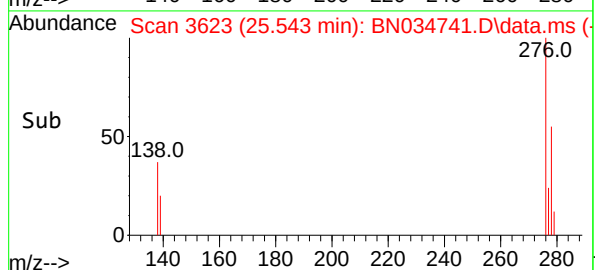
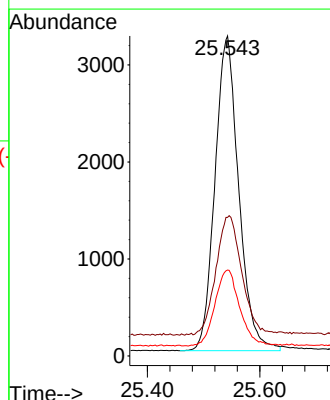
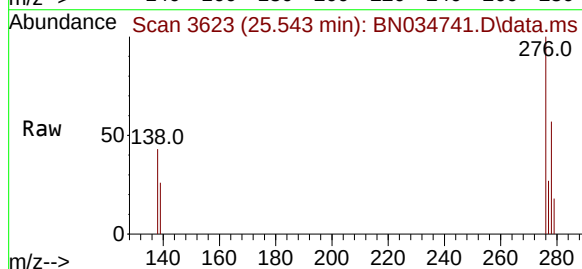
Tgt Ion:276 Resp: 9518

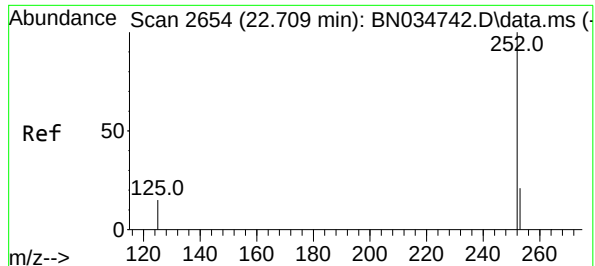
Ion Ratio Lower Upper

276 100

138 41.2 31.5 47.3

277 25.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.186 ng

RT: 22.712 min Scan# 2655

Delta R.T. 0.003 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

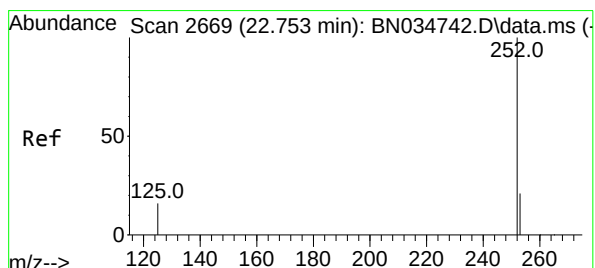
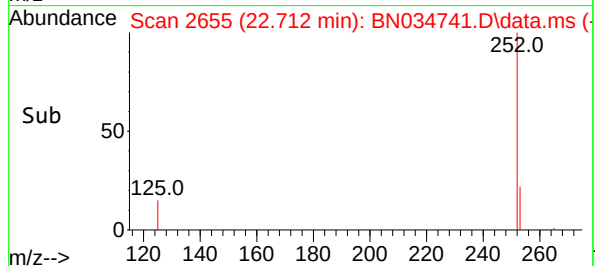
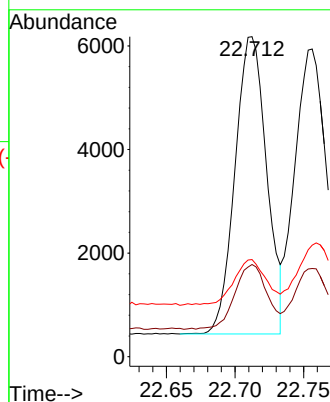
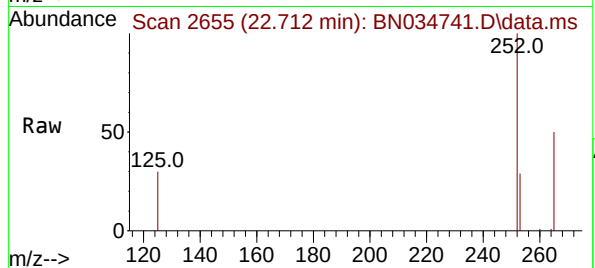
Tgt Ion:252 Resp: 9196

Ion Ratio Lower Upper

252 100

253 28.8 19.7 29.5

125 30.4 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 0.190 ng

RT: 22.756 min Scan# 2670

Delta R.T. 0.003 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

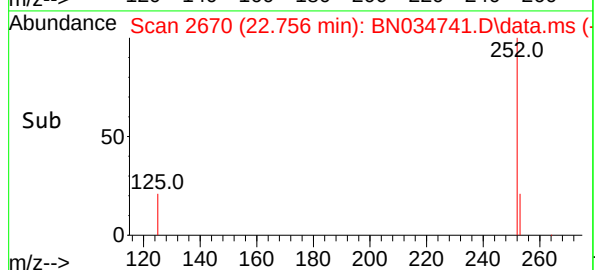
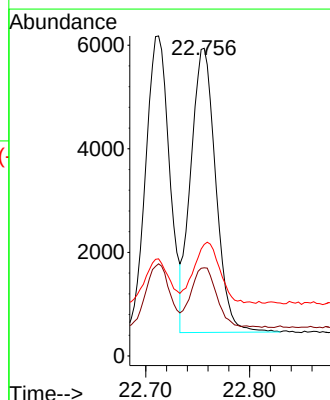
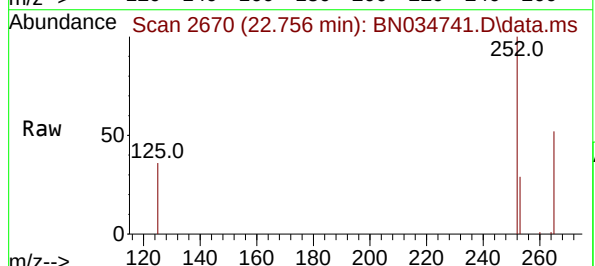
Tgt Ion:252 Resp: 9145

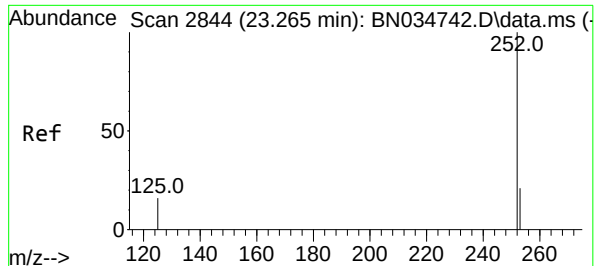
Ion Ratio Lower Upper

252 100

253 28.7 19.8 29.6

125 36.3 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 0.192 ng

RT: 23.268 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034741.D

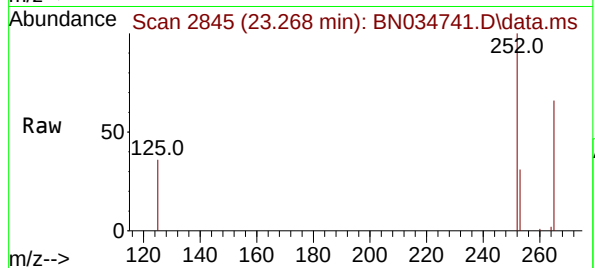
Acq: 30 Oct 2024 09:56

Instrument :

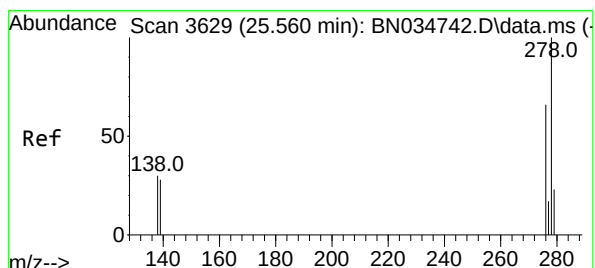
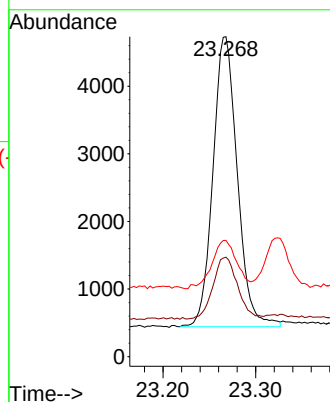
BNA_N

ClientSampleId :

SSTDIC0.2



Tgt Ion:	252	Resp:	7834
Ion Ratio	Lower	Upper	
252	100		
253	31.1	20.7	31.1
125	36.4	20.3	30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.211 ng

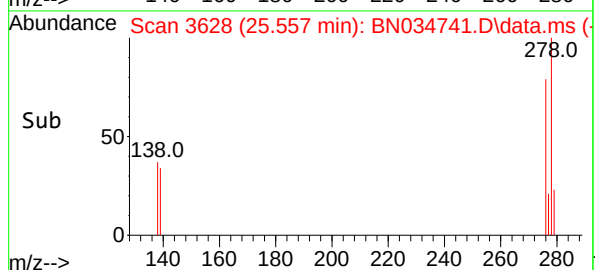
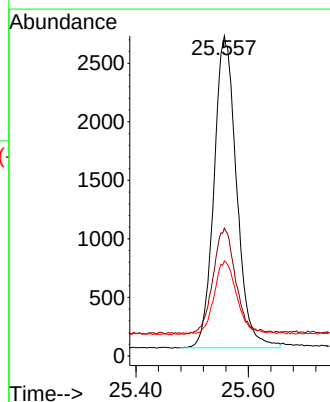
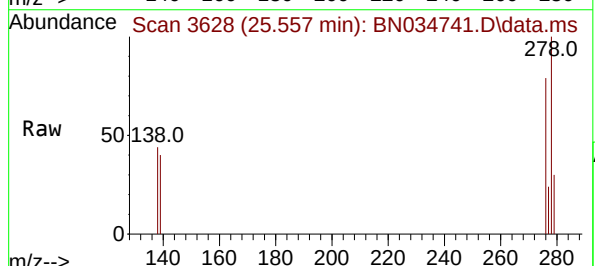
RT: 25.557 min Scan# 3628

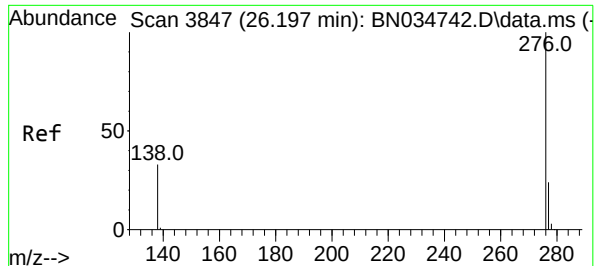
Delta R.T. -0.003 min

Lab File: BN034741.D

Acq: 30 Oct 2024 09:56

Tgt Ion:	278	Resp:	7423
Ion Ratio	Lower	Upper	
278	100		
139	40.0	24.9	37.3
279	29.7	21.0	31.4





#41

Benzo(g,h,i)perylene

Concen: 0.215 ng

RT: 26.197 min Scan# 3847

Delta R.T. 0.000 min

Lab File: BN034741.D

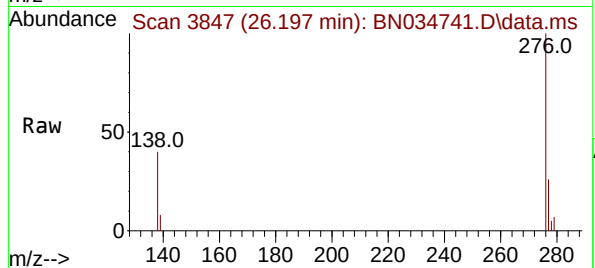
Acq: 30 Oct 2024 09:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



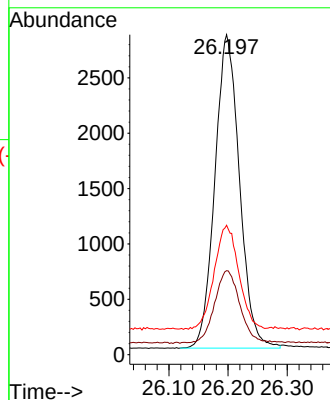
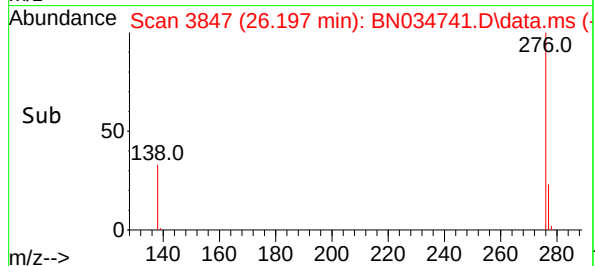
Tgt Ion:276 Resp: 8184

Ion Ratio Lower Upper

276 100

277 26.2 20.2 30.2

138 40.4 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034742.D
 Acq On : 30 Oct 2024 10:32
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Oct 30 13:32:20 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

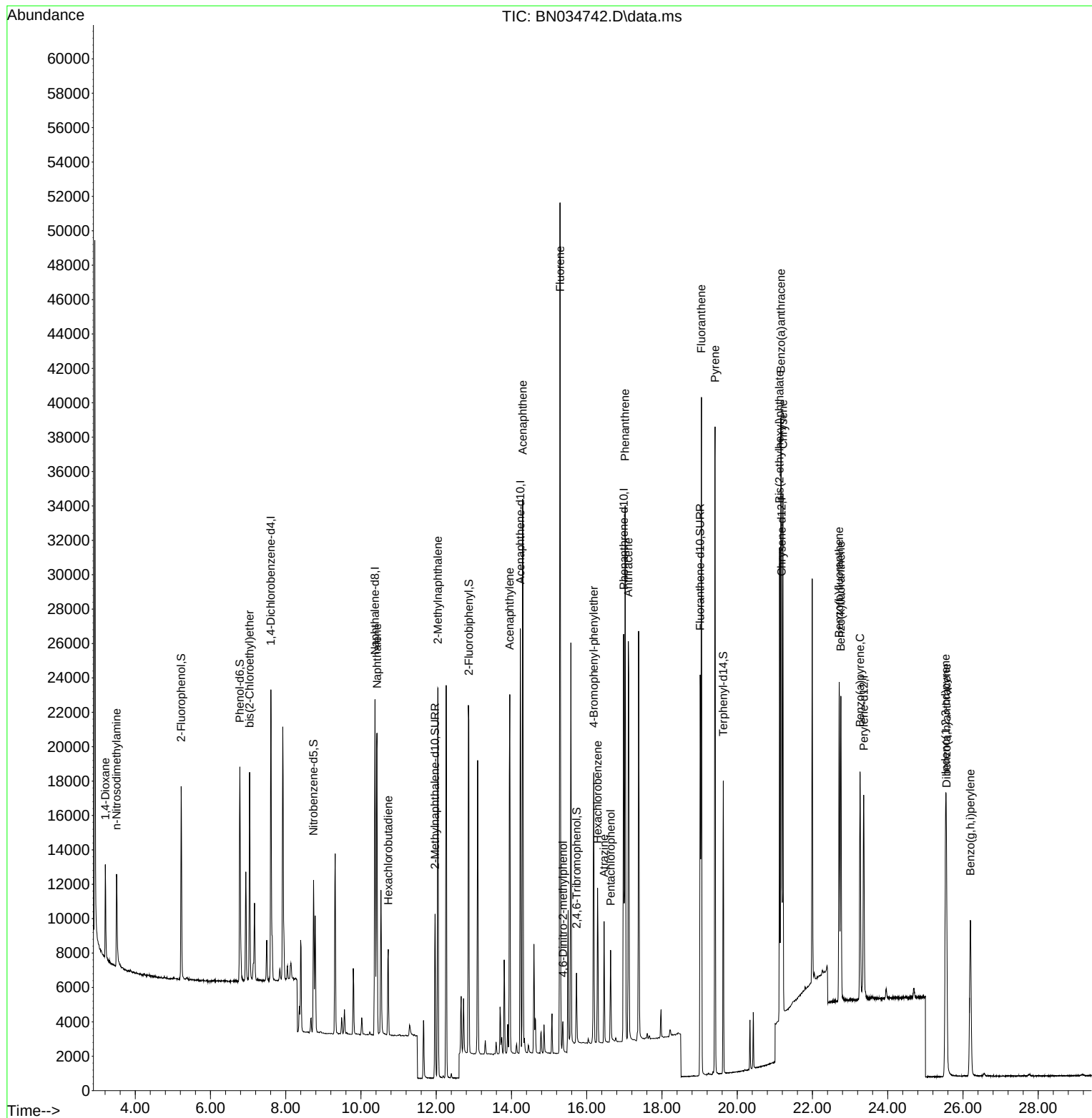
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	8011	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	24120	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	13699	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	27882	0.400	ng	0.00
29) Chrysene-d12	21.178	240	17310	0.400	ng	0.00
35) Perylene-d12	23.361	264	14673	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	8777	0.362	ng	0.00
5) Phenol-d6	6.780	99	11267	0.357	ng	0.00
8) Nitrobenzene-d5	8.739	82	6709	0.354	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	12514	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	2165	0.320	ng	0.00
15) 2-Fluorobiphenyl	12.864	172	18632	0.345	ng	0.00
27) Fluoranthene-d10	19.015	212	23668	0.362	ng	0.00
31) Terphenyl-d14	19.628	244	13647	0.367	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	3258	0.371	ng	99
3) n-Nitrosodimethylamine	3.502	42	3497	0.353	ng	96
6) bis(2-Chloroethyl)ether	7.040	93	8465	0.368	ng	100
9) Naphthalene	10.426	128	24029	0.360	ng	100
10) Hexachlorobutadiene	10.724	225	3973	0.362	ng	# 100
12) 2-Methylnaphthalene	12.044	142	15657	0.359	ng	100
16) Acenaphthylene	13.955	152	22981	0.334	ng	100
17) Acenaphthene	14.297	154	15518	0.339	ng	100
18) Fluorene	15.291	166	19646	0.344	ng	100
20) 4,6-Dinitro-2-methylph...	15.366	198	1243	0.413	ng	100
21) 4-Bromophenyl-phenylether	16.188	248	5857	0.363	ng	100
22) Hexachlorobenzene	16.287	284	6629	0.367	ng	100
23) Atrazine	16.461	200	4975	0.358	ng	100
24) Pentachlorophenol	16.634	266	2536	0.326	ng	100
25) Phenanthrene	17.019	178	30001	0.366	ng	100
26) Anthracene	17.106	178	27599	0.360	ng	100
28) Fluoranthene	19.048	202	32726	0.362	ng	100
30) Pyrene	19.410	202	33335	0.368	ng	100
32) Benzo(a)anthracene	21.160	228	24331	0.353	ng	100
33) Chrysene	21.214	228	24332	0.361	ng	100
34) Bis(2-ethylhexyl)phtha...	21.124	149	22344	0.388	ng	100
36) Indeno(1,2,3-cd)pyrene	25.536	276	19549	0.362	ng	100
37) Benzo(b)fluoranthene	22.709	252	21276	0.360	ng	100
38) Benzo(k)fluoranthene	22.753	252	20480	0.355	ng	100
39) Benzo(a)pyrene	23.265	252	17327	0.355	ng	100
40) Dibenzo(a,h)anthracene	25.560	278	15182	0.361	ng	100
41) Benzo(g,h,i)perylene	26.197	276	16694	0.367	ng	100

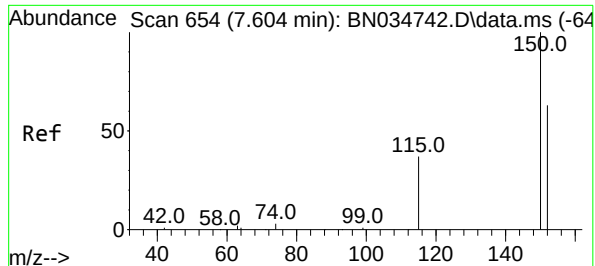
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034742.D
Acq On : 30 Oct 2024 10:32
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Oct 30 13:32:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

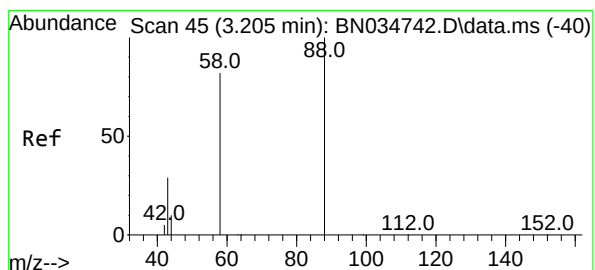
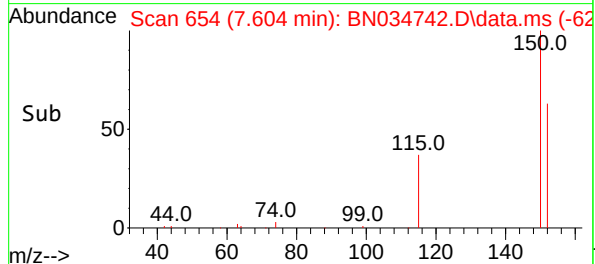
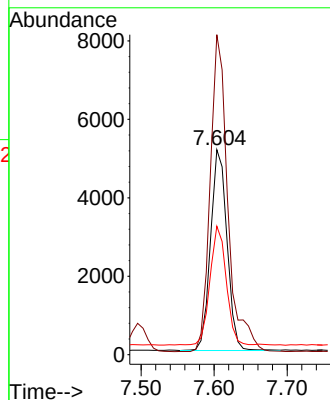
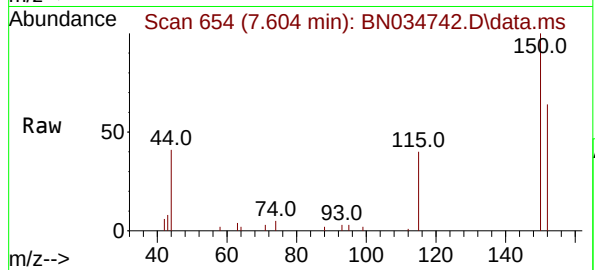




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

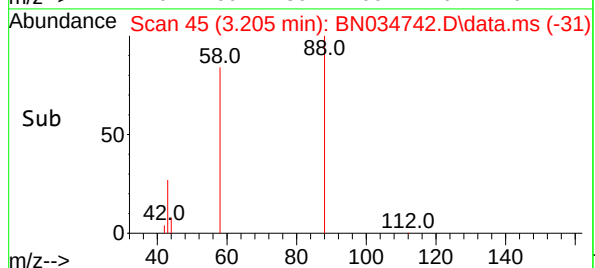
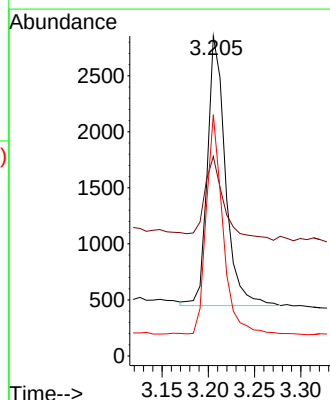
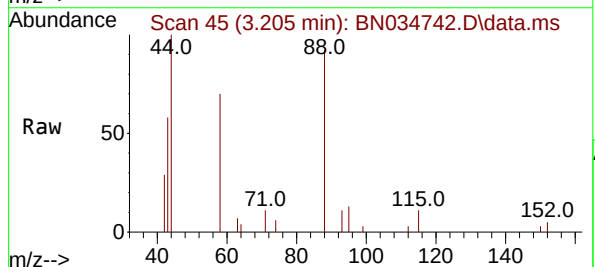
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

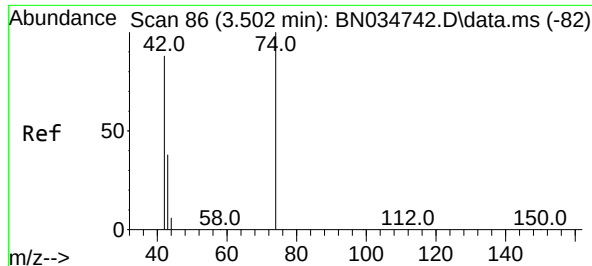
Tgt Ion:152 Resp: 8011
Ion Ratio Lower Upper
152 100
150 156.1 124.9 187.3
115 62.7 50.2 75.2



#2
1,4-Dioxane
Concen: 0.371 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion: 88 Resp: 3258
Ion Ratio Lower Upper
88 100
43 33.7 26.7 40.1
58 74.8 59.3 88.9

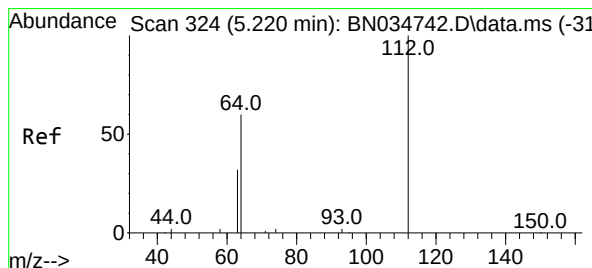
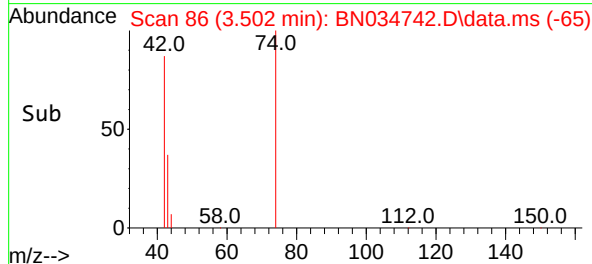
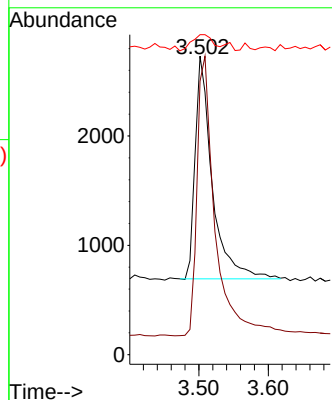
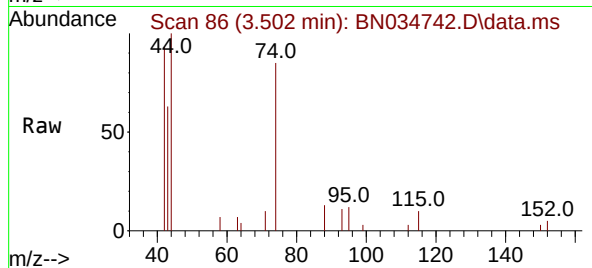




#3
n-Nitrosodimethylamine
Concen: 0.353 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

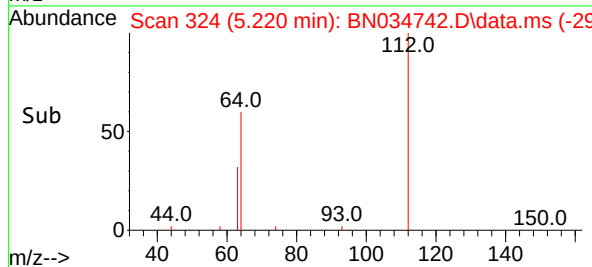
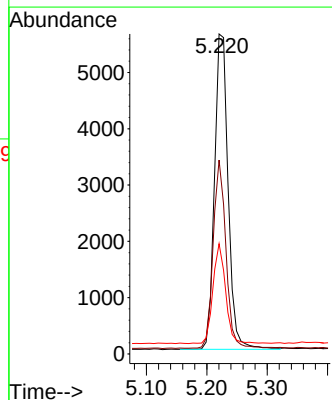
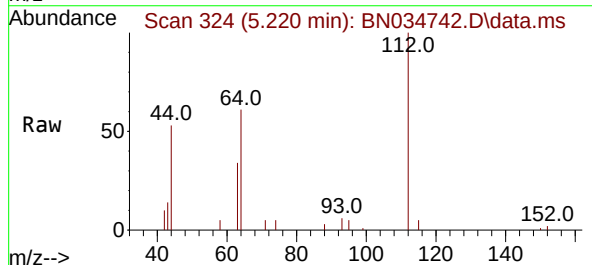
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

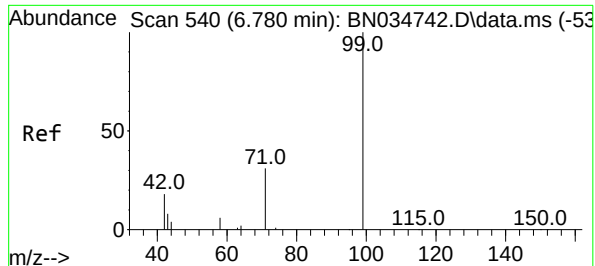
Tgt Ion: 42 Resp: 3497
Ion Ratio Lower Upper
42 100
74 133.2 103.1 154.7
44 8.8 6.7 10.1



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.220 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion: 112 Resp: 8777
Ion Ratio Lower Upper
112 100
64 56.1 44.9 67.3
63 29.4 23.5 35.3

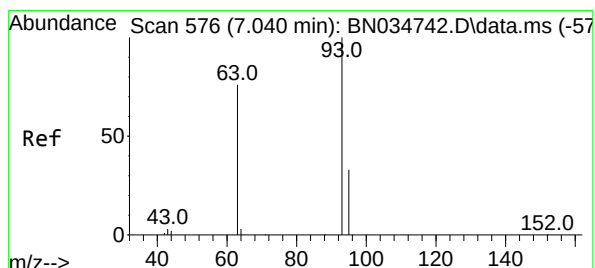
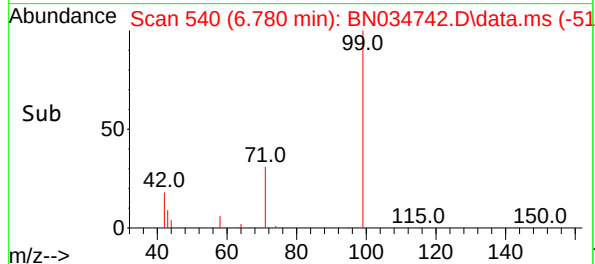
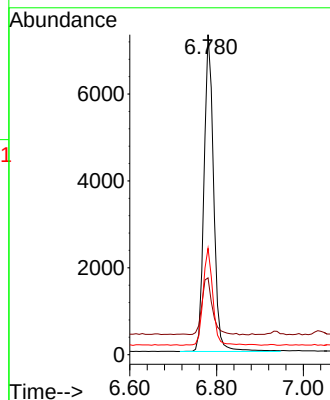
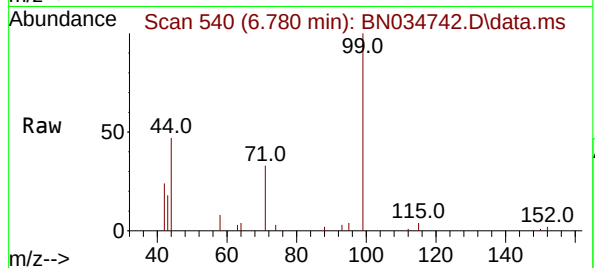




#5
Phenol-d6
Concen: 0.357 ng
RT: 6.780 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

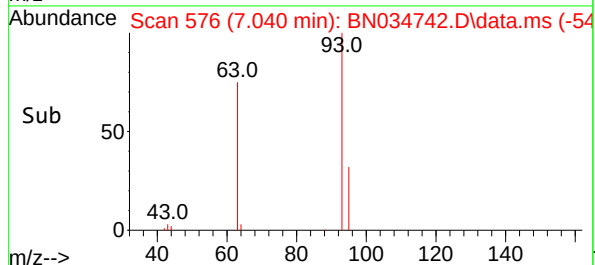
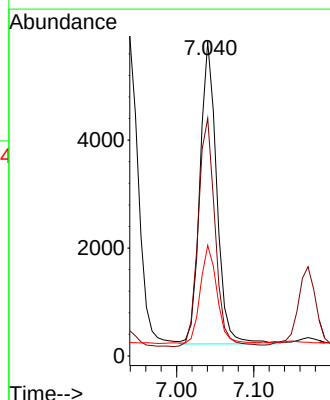
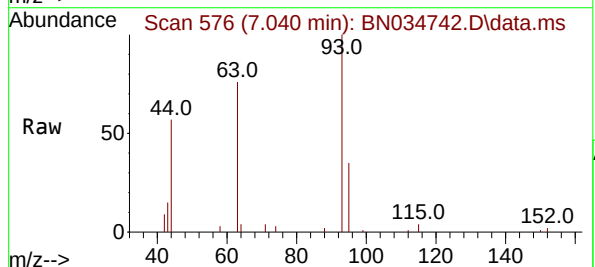
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

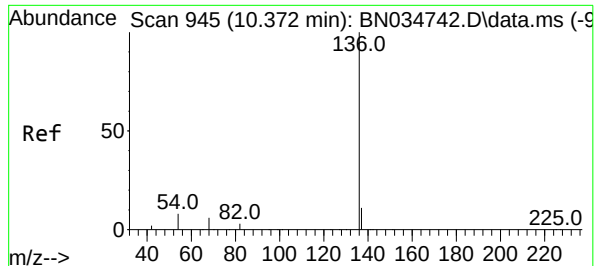
Tgt Ion: 99 Resp: 11267
Ion Ratio Lower Upper
99 100
42 19.9 15.9 23.9
71 30.4 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion: 93 Resp: 8465
Ion Ratio Lower Upper
93 100
63 76.5 61.2 91.8
95 32.3 25.8 38.8

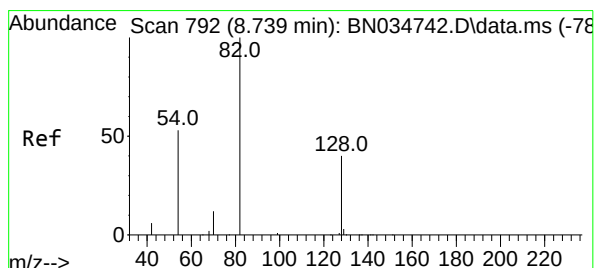
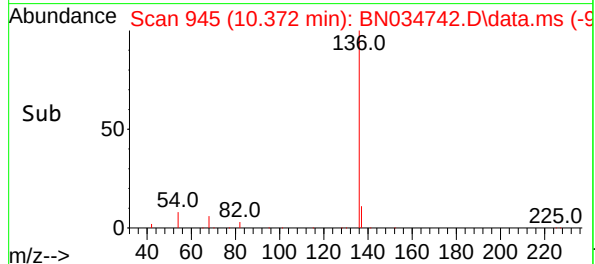
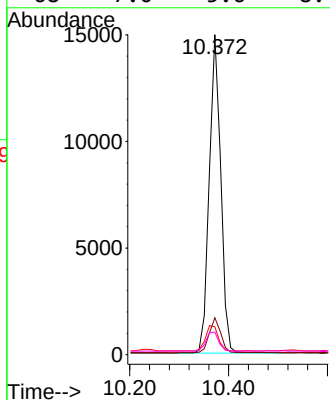
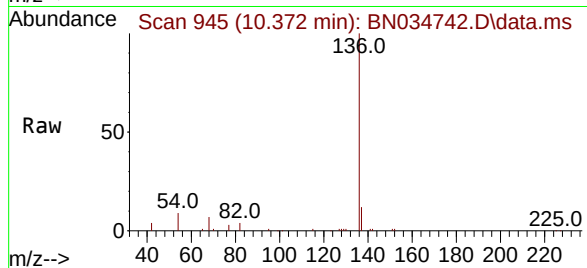




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

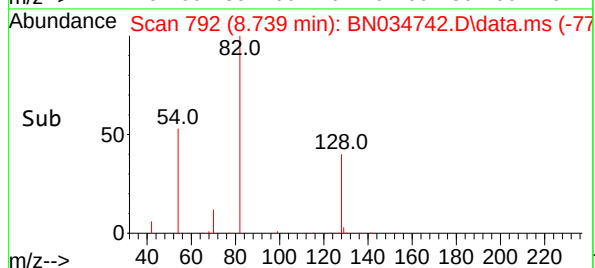
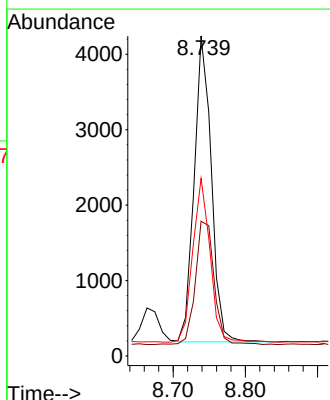
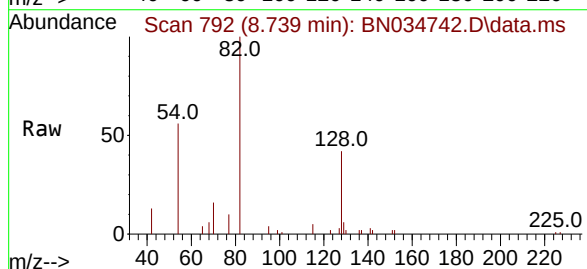
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

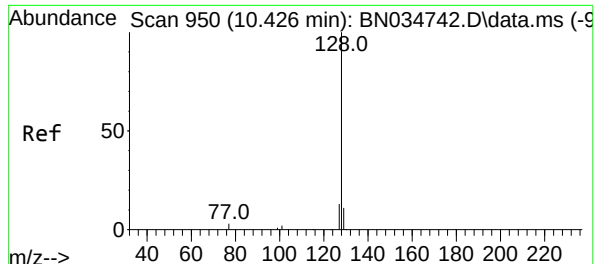
Tgt Ion:	136	Resp:	24120
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	8.7	7.0	10.4
68	7.0	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.354 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:	82	Resp:	6709
Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.7	50.5
54	55.5	44.4	66.6





#9

Naphthalene

Concen: 0.360 ng

RT: 10.426 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

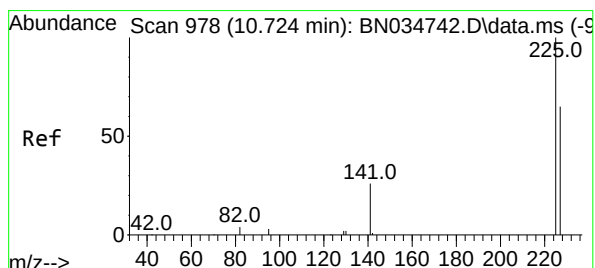
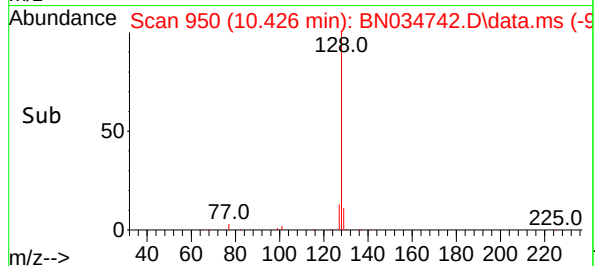
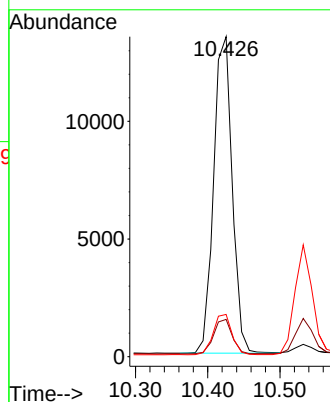
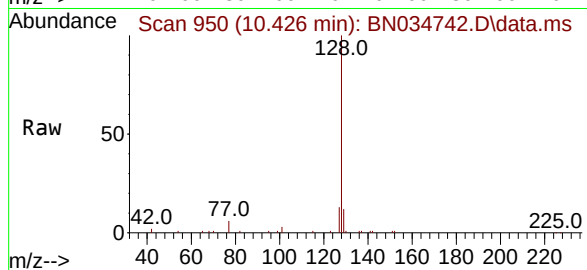
Tgt Ion:128 Resp: 24029

Ion Ratio Lower Upper

128 100

129 11.7 9.4 14.0

127 13.2 10.6 15.8



#10

Hexachlorobutadiene

Concen: 0.362 ng

RT: 10.724 min Scan# 978

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

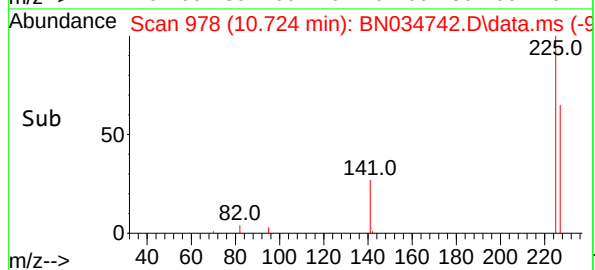
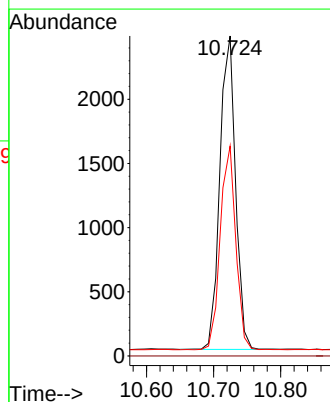
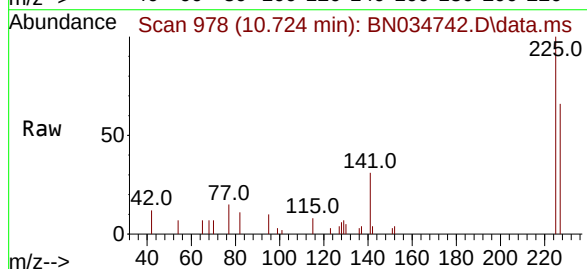
Tgt Ion:225 Resp: 3973

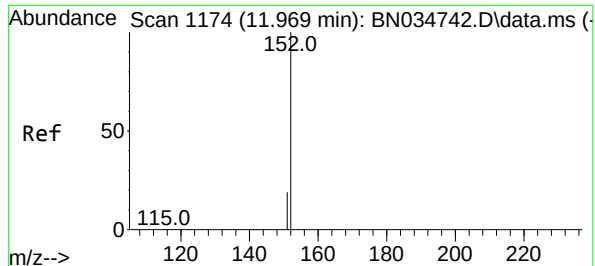
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.4 77.2

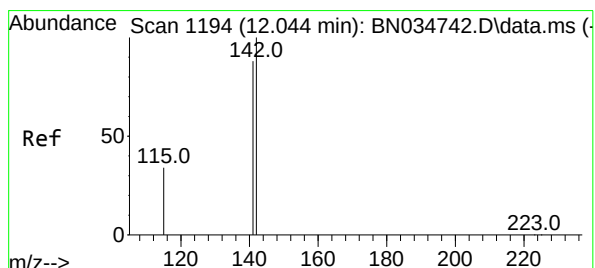
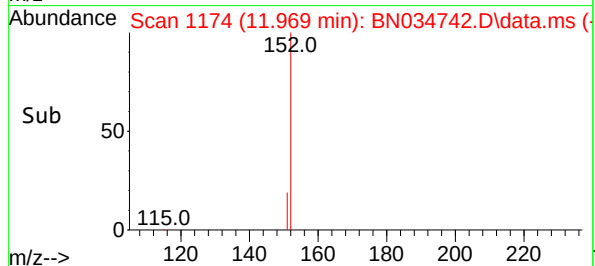
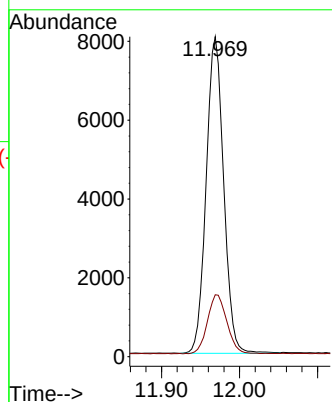
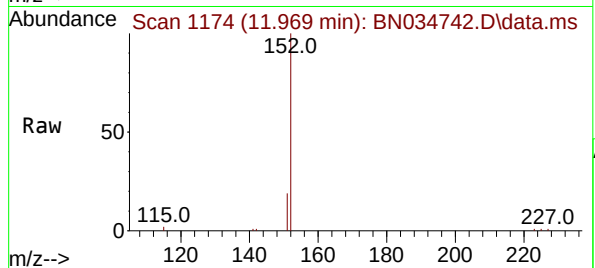




#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

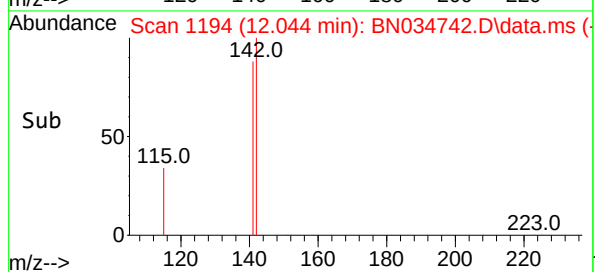
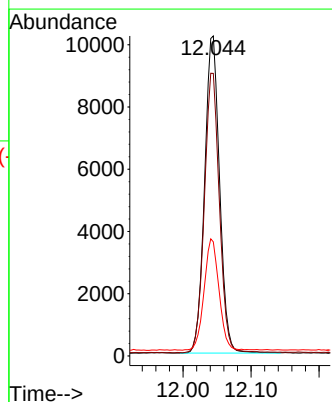
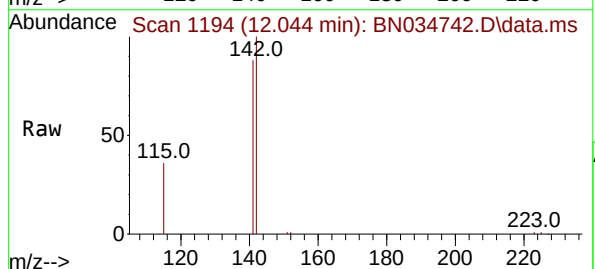
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

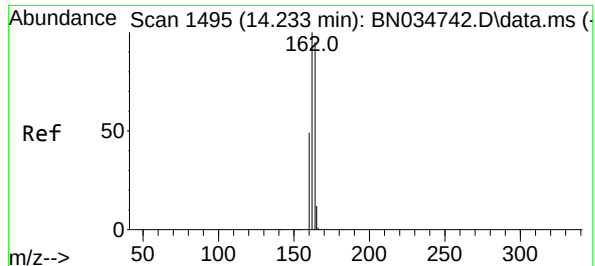
Tgt Ion:152 Resp: 12514
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.359 ng
RT: 12.044 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:142 Resp: 15657
Ion Ratio Lower Upper
142 100
141 88.3 70.6 106.0
115 35.7 28.6 42.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.233 min Scan# 1495

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

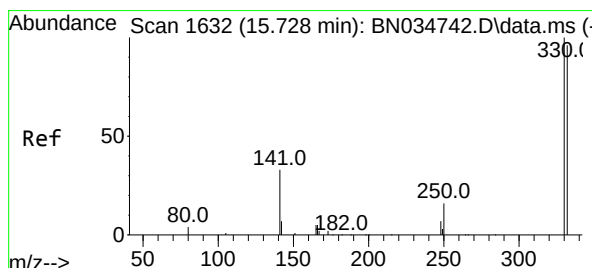
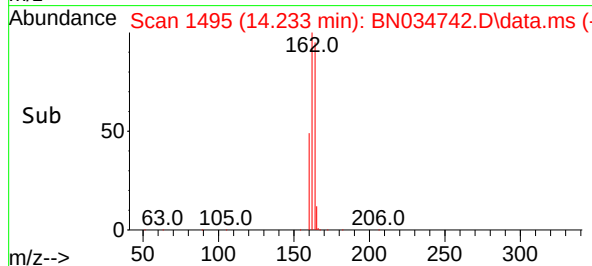
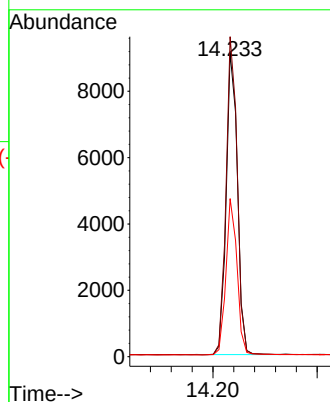
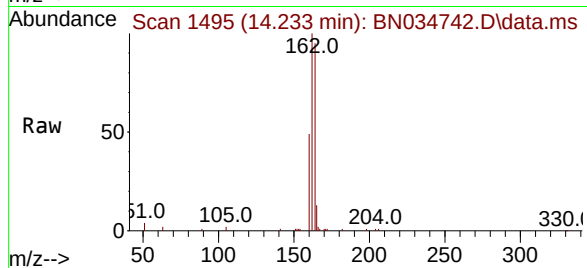
Tgt Ion:164 Resp: 13699

Ion Ratio Lower Upper

164 100

162 105.4 84.3 126.5

160 52.1 41.7 62.5



#14

2,4,6-Tribromophenol

Concen: 0.320 ng

RT: 15.728 min Scan# 1632

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

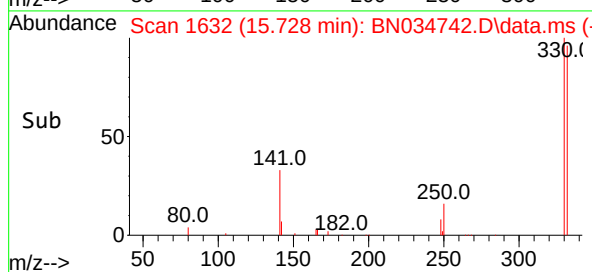
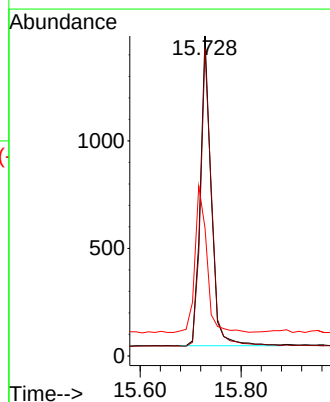
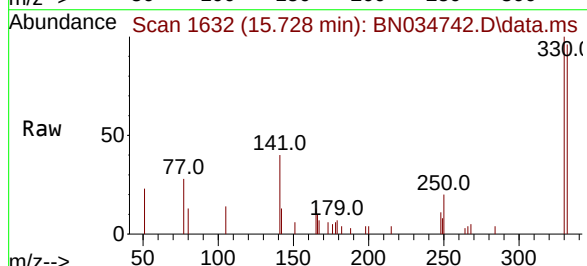
Tgt Ion:330 Resp: 2165

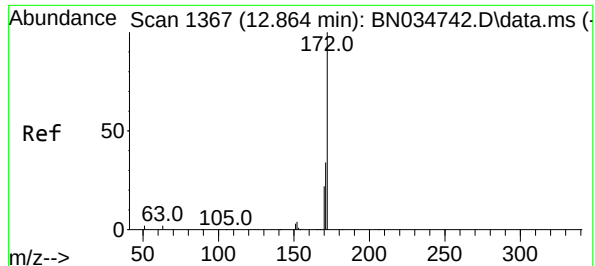
Ion Ratio Lower Upper

330 100

332 97.2 77.8 116.6

141 51.2 41.0 61.4

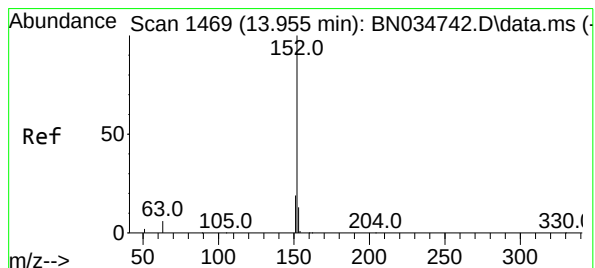
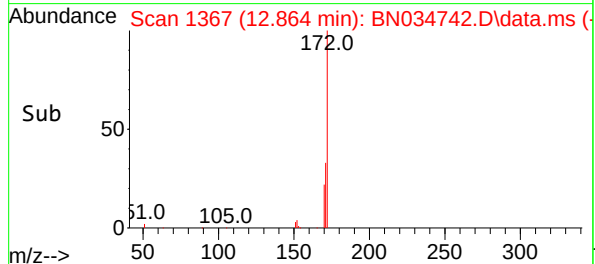
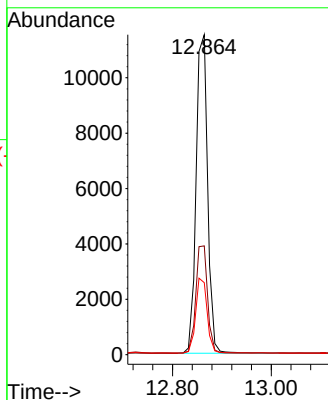
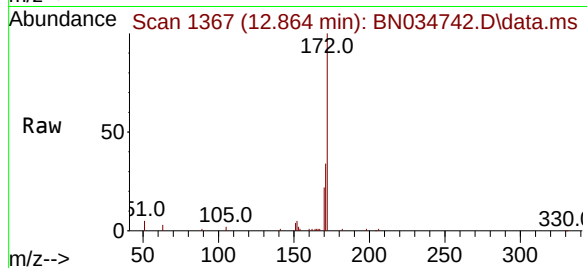




#15
2-Fluorobiphenyl
Concen: 0.345 ng
RT: 12.864 min Scan# 1367
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

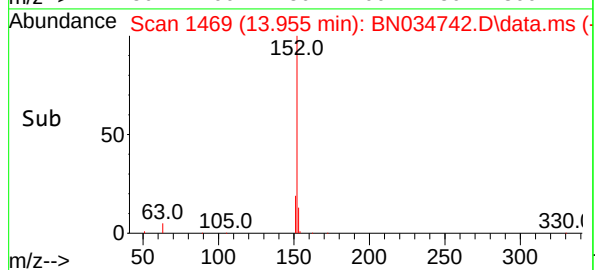
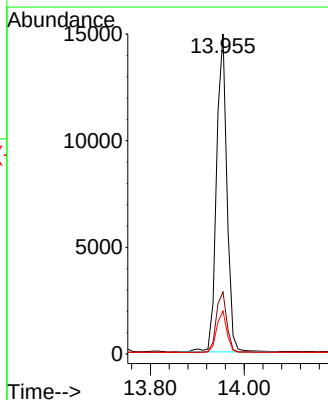
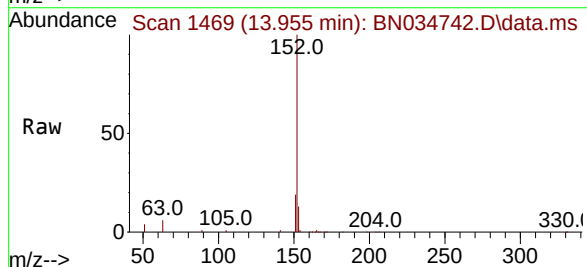
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

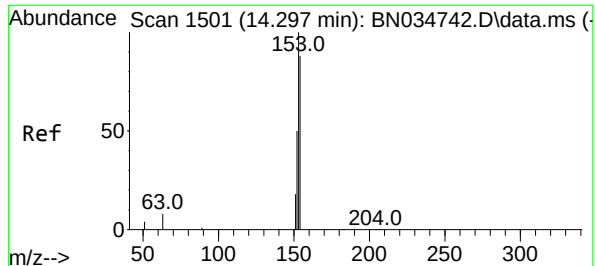
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.0	27.2	40.8
170	22.5	18.0	27.0



#16
Acenaphthylene
Concen: 0.334 ng
RT: 13.955 min Scan# 1469
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	12.8	10.2	15.4

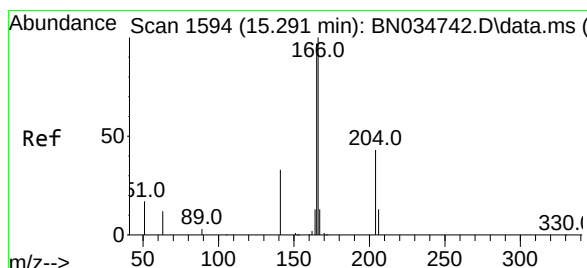
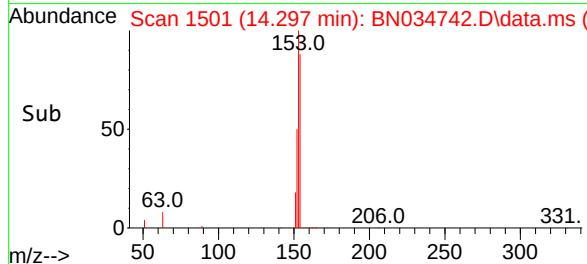
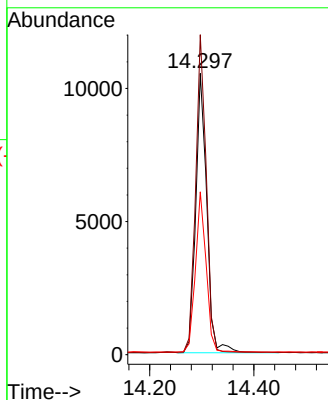
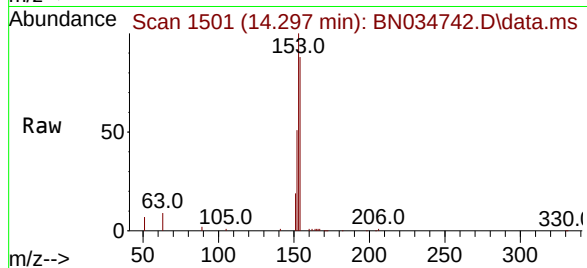




#17
Acenaphthene
Concen: 0.339 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

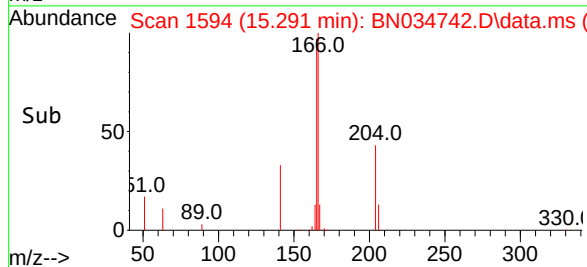
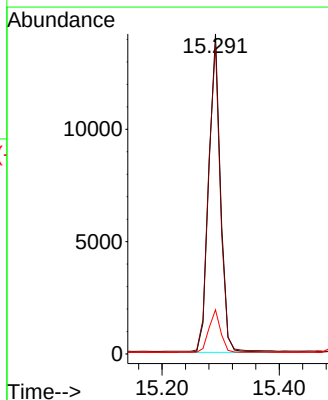
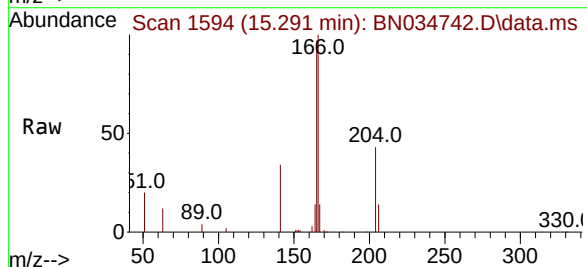
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

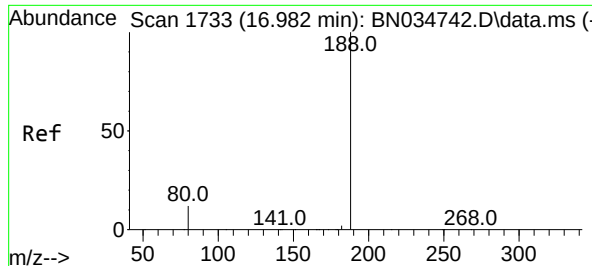
Tgt Ion:154 Resp: 15518
Ion Ratio Lower Upper
154 100
153 109.7 87.8 131.6
152 55.8 44.6 67.0



#18
Fluorene
Concen: 0.344 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:166 Resp: 19646
Ion Ratio Lower Upper
166 100
165 98.1 78.5 117.7
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

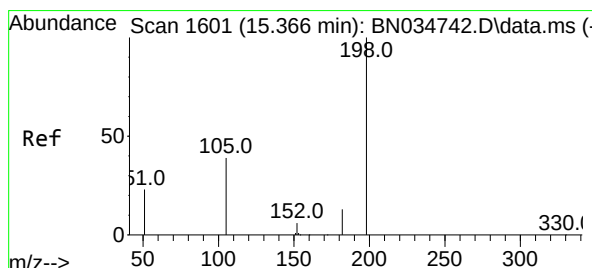
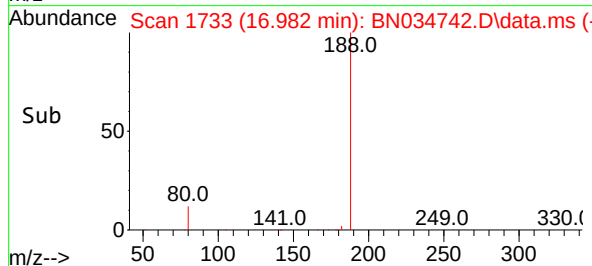
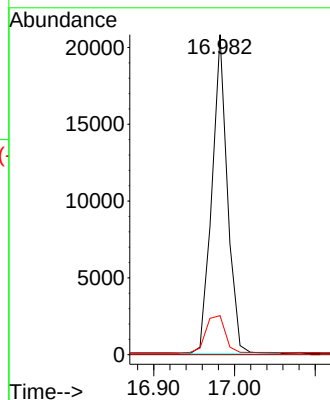
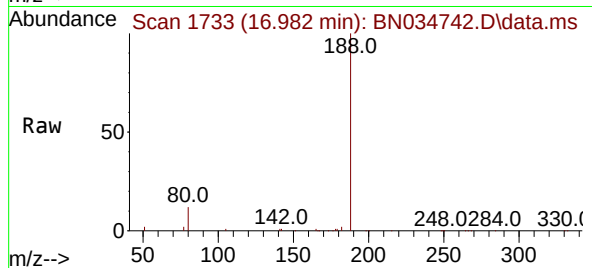
Tgt Ion:188 Resp: 27882

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.413 ng

RT: 15.366 min Scan# 1601

Delta R.T. -0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

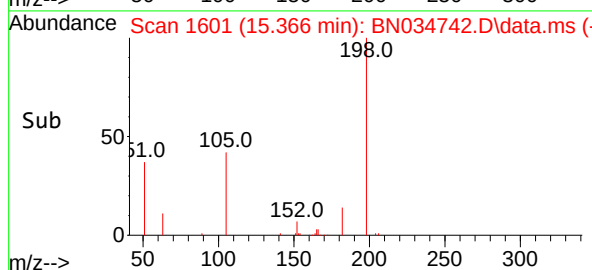
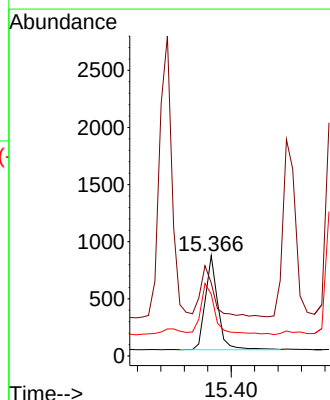
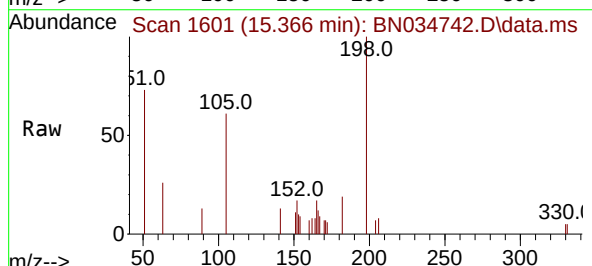
Tgt Ion:198 Resp: 1243

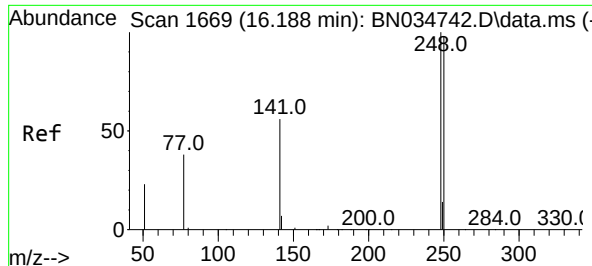
Ion Ratio Lower Upper

198 100

51 72.5 58.0 87.0

105 61.4 49.1 73.7

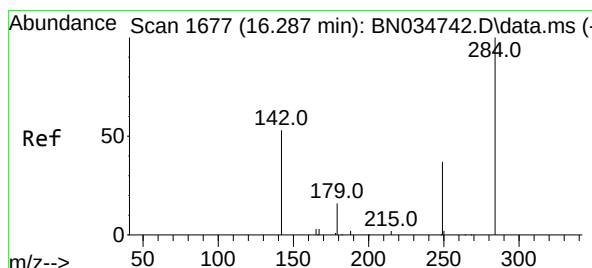
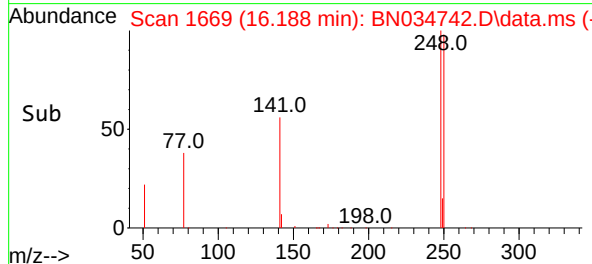
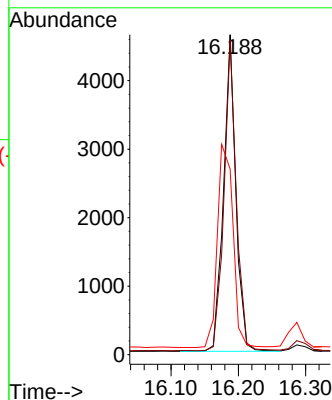
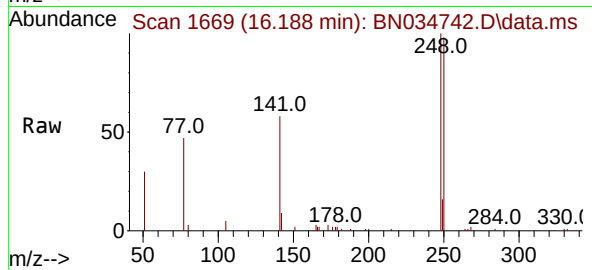




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.188 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

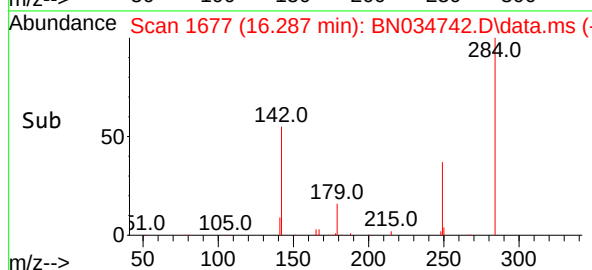
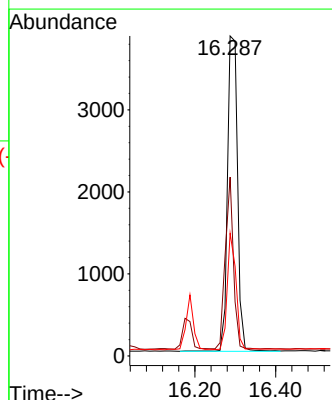
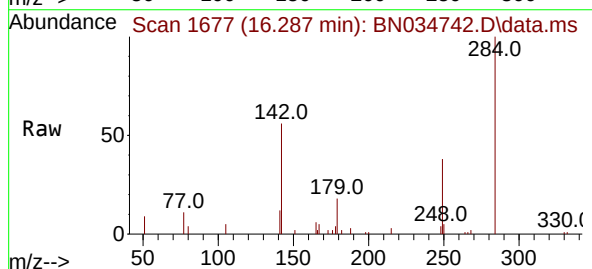
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

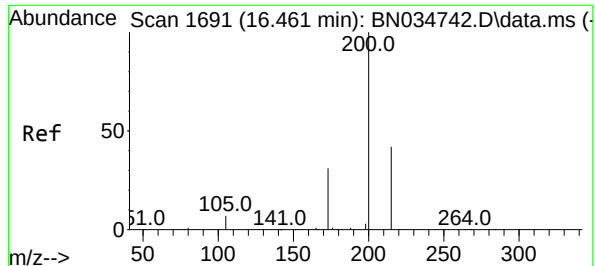
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.7	118.1
141	58.0	46.4	69.6



#22
Hexachlorobenzene
Concen: 0.367 ng
RT: 16.287 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion	Ratio	Lower	Upper
284	100		
142	44.2	35.4	53.0
249	32.1	25.7	38.5

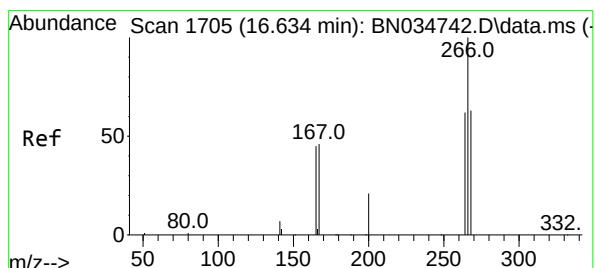
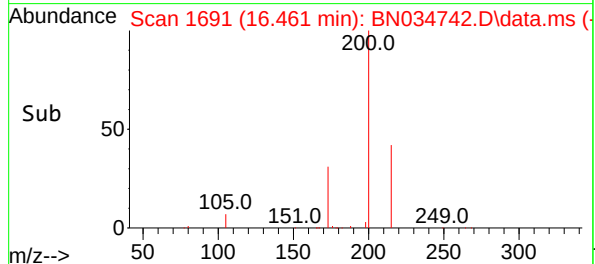
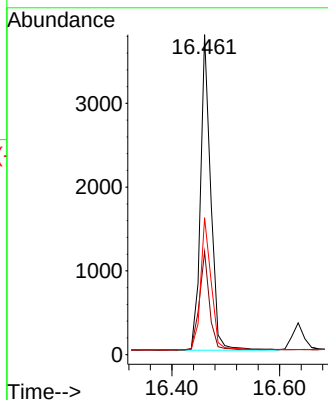
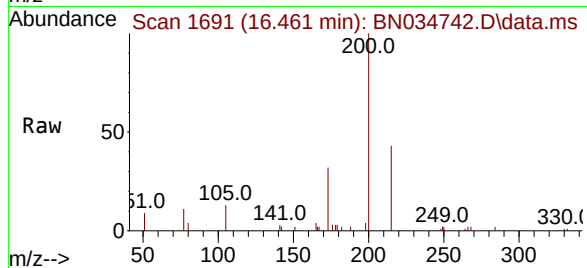




#23
Atrazine
Concen: 0.358 ng
RT: 16.461 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

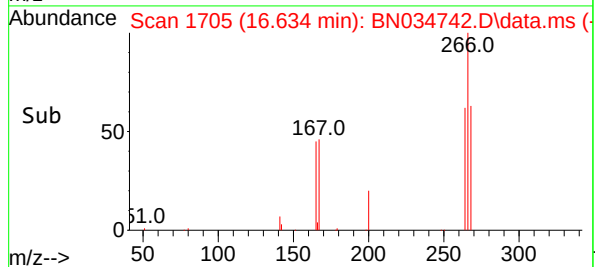
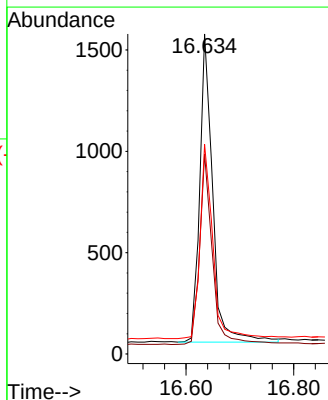
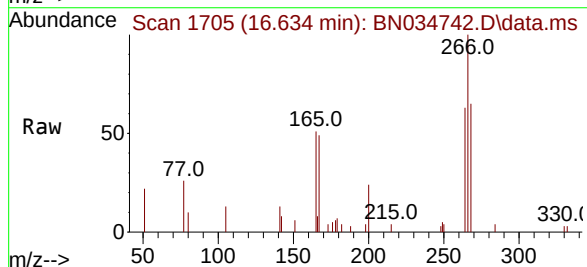
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

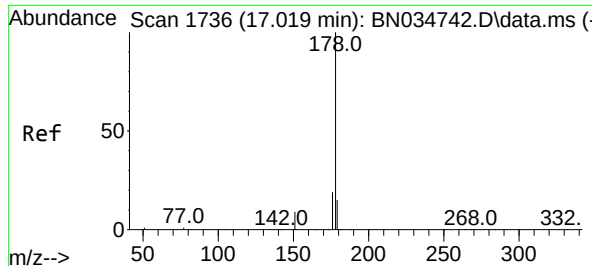
Tgt Ion:200 Resp: 4975
Ion Ratio Lower Upper
200 100
173 32.2 25.8 38.6
215 42.8 34.2 51.4



#24
Pentachlorophenol
Concen: 0.326 ng
RT: 16.634 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:266 Resp: 2536
Ion Ratio Lower Upper
266 100
264 61.2 48.7 73.1
268 62.9 50.2 75.4





#25

Phenanthrene

Concen: 0.366 ng

RT: 17.019 min Scan# 1736

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

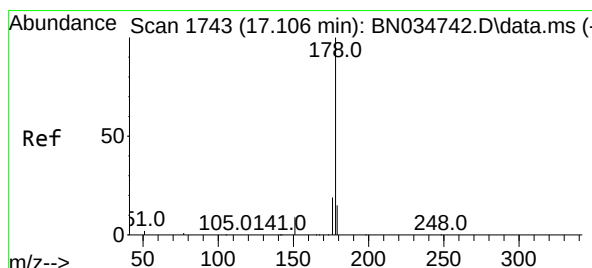
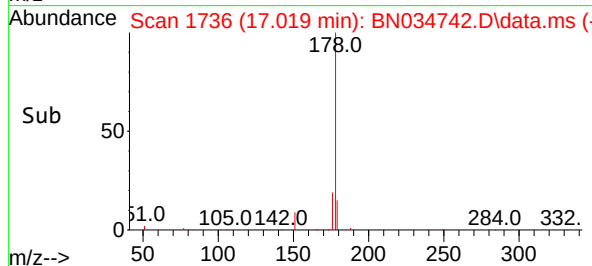
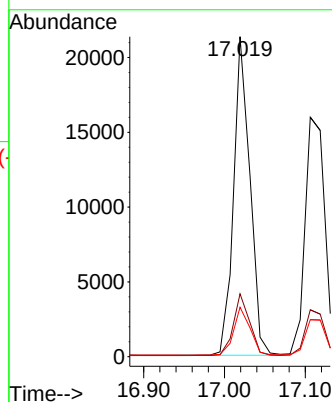
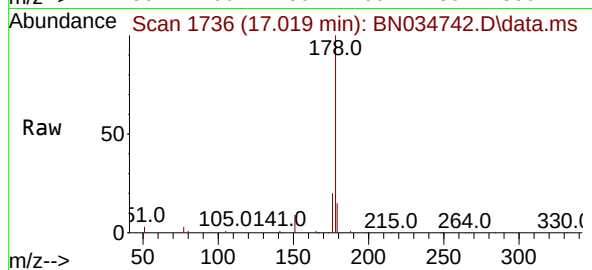
Tgt Ion:178 Resp: 30001

Ion Ratio Lower Upper

178 100

176 19.2 15.4 23.0

179 15.3 12.2 18.4



#26

Anthracene

Concen: 0.360 ng

RT: 17.106 min Scan# 1743

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

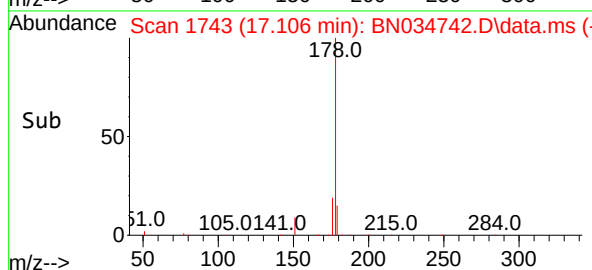
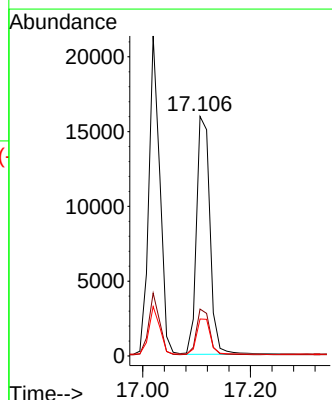
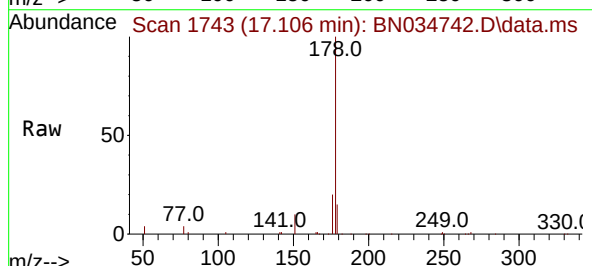
Tgt Ion:178 Resp: 27599

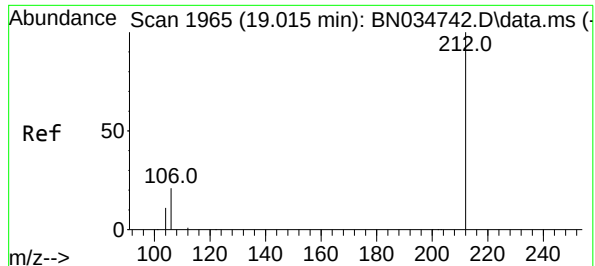
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.6

179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.362 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

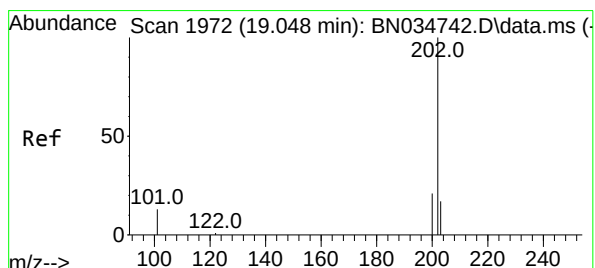
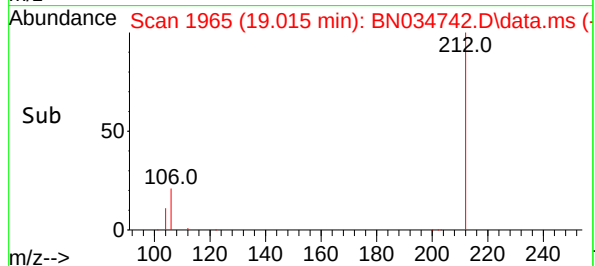
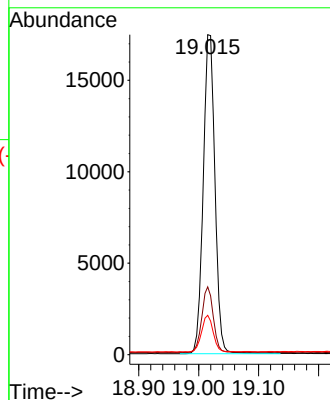
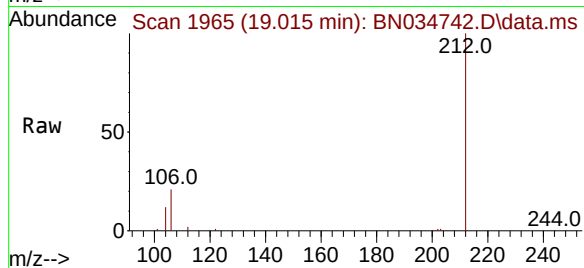
Tgt Ion:212 Resp: 23668

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.5 9.2 13.8



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

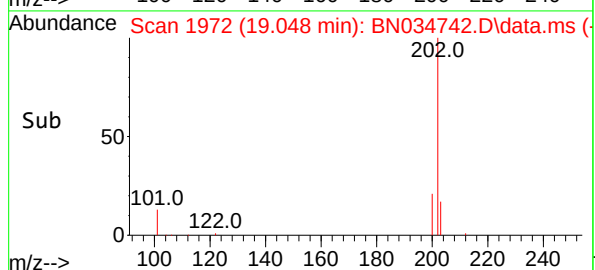
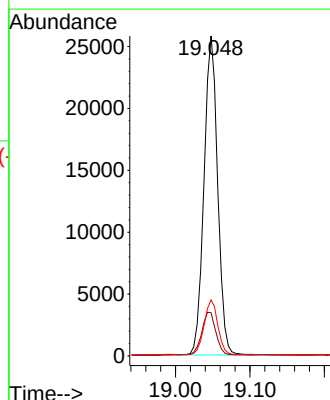
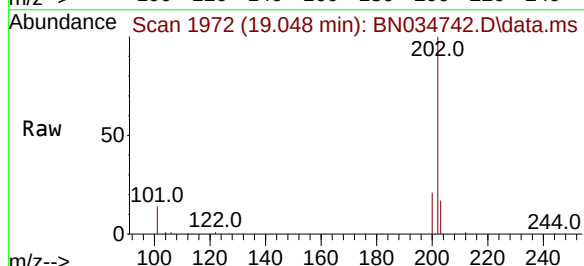
Tgt Ion:202 Resp: 32726

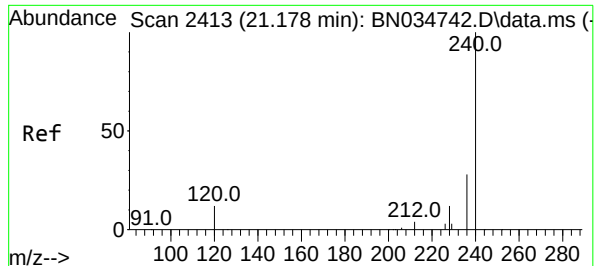
Ion Ratio Lower Upper

202 100

101 14.2 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

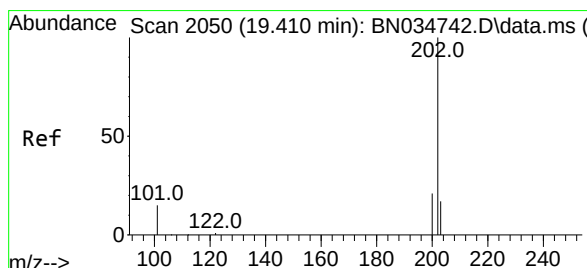
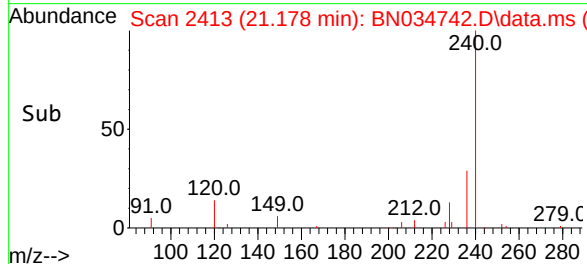
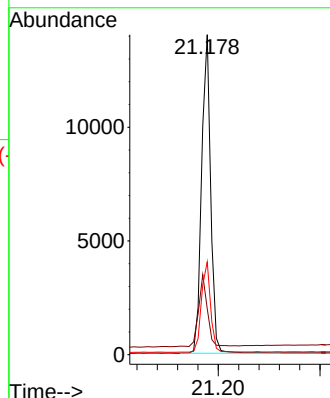
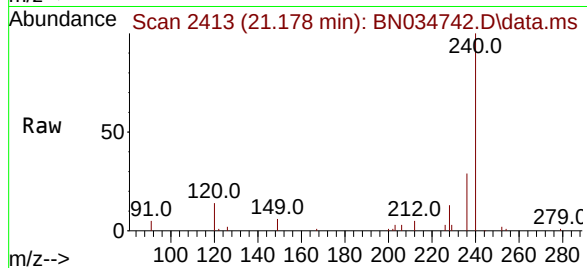
Tgt Ion:240 Resp: 17310

Ion Ratio Lower Upper

240 100

120 14.4 11.5 17.3

236 29.0 23.2 34.8



#30

Pyrene

Concen: 0.368 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

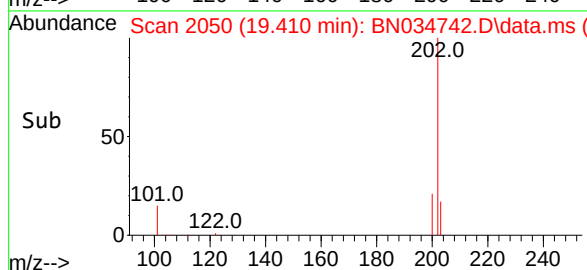
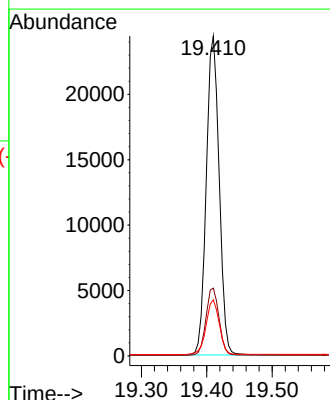
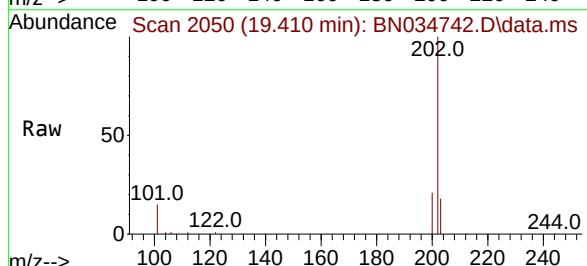
Tgt Ion:202 Resp: 33335

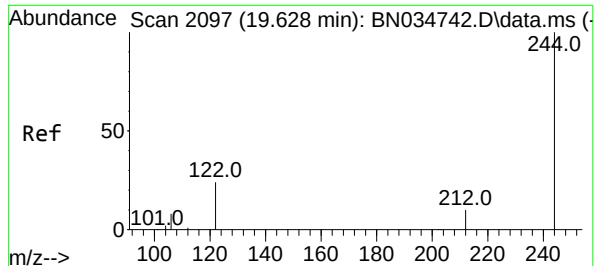
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.2 21.2

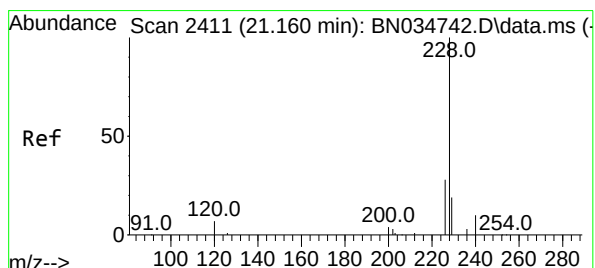
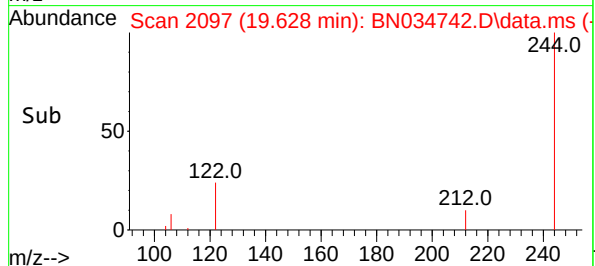
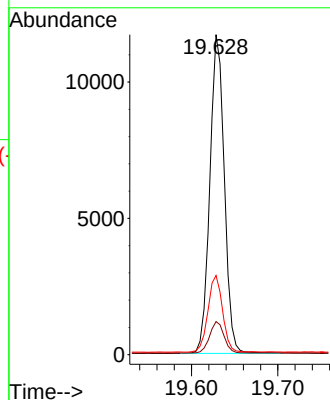
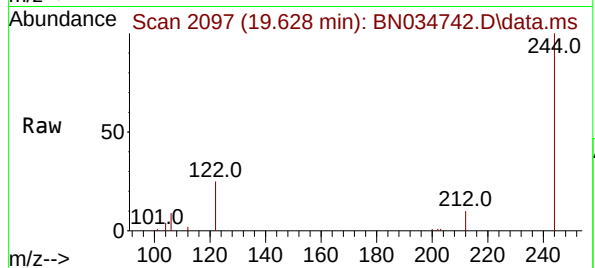




#31
Terphenyl-d14
Concen: 0.367 ng
RT: 19.628 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

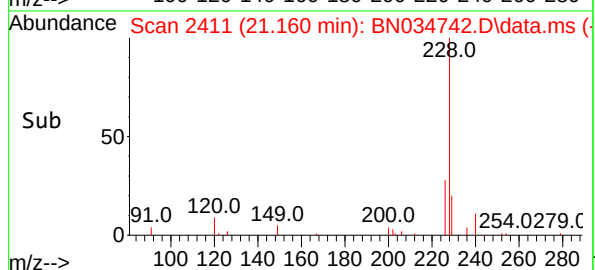
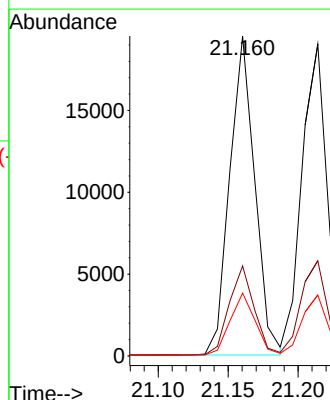
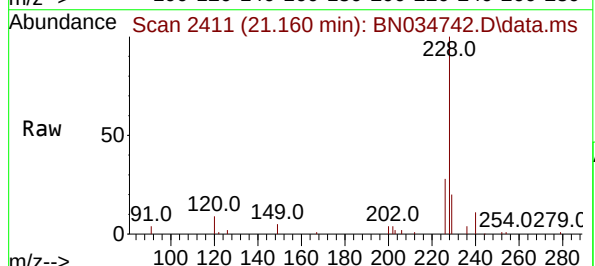
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

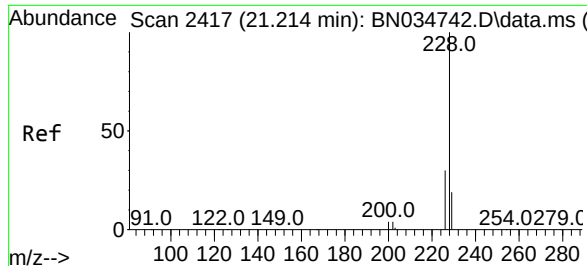
Tgt Ion:244 Resp: 13647
Ion Ratio Lower Upper
244 100
212 10.3 8.2 12.4
122 24.7 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.353 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034742.D
Acq: 30 Oct 2024 10:32

Tgt Ion:228 Resp: 24331
Ion Ratio Lower Upper
228 100
226 28.2 22.6 33.8
229 19.6 15.7 23.5





#33

Chrysene

Concen: 0.361 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

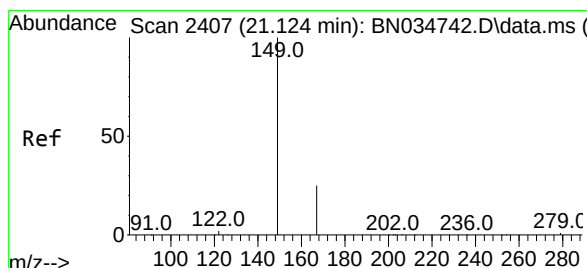
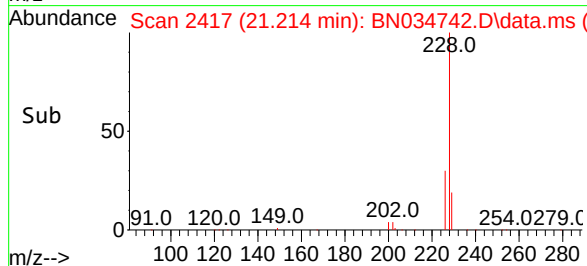
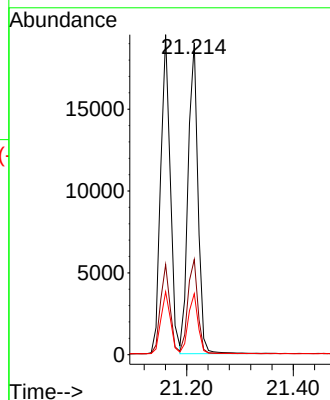
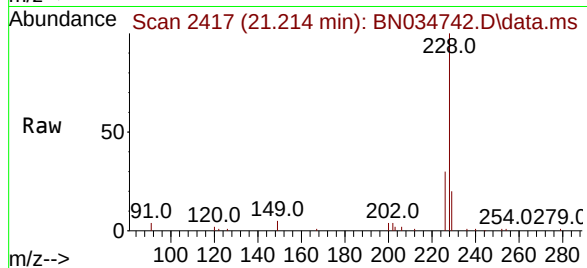
Tgt Ion:228 Resp: 24332

Ion Ratio Lower Upper

228 100

226 30.5 24.4 36.6

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.388 ng

RT: 21.124 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

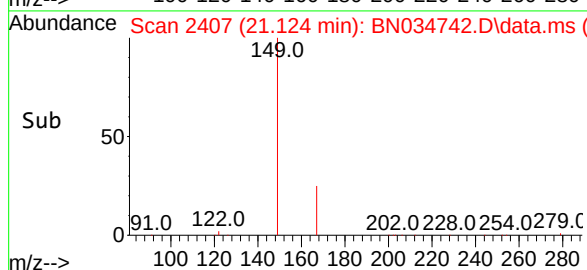
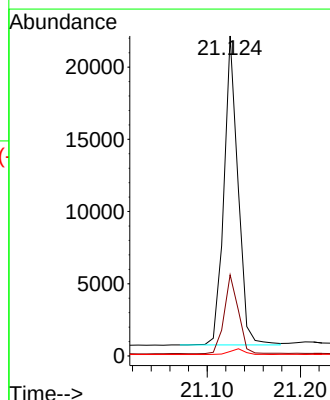
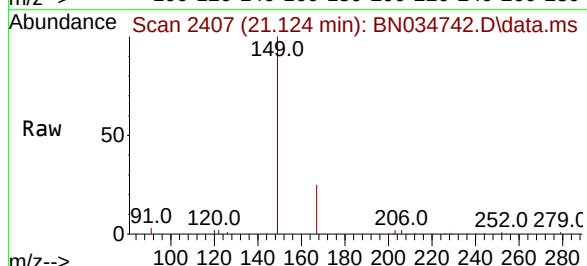
Tgt Ion:149 Resp: 22344

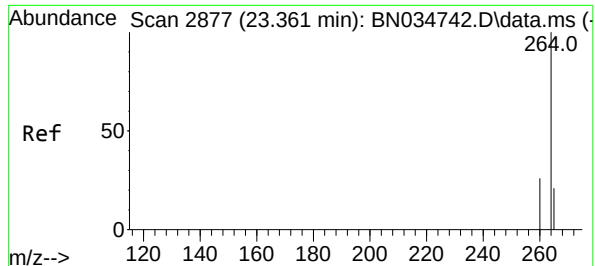
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.361 min Scan# 2877

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

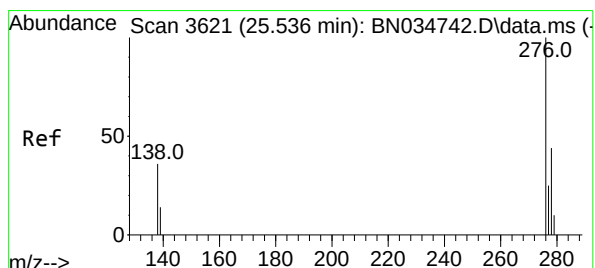
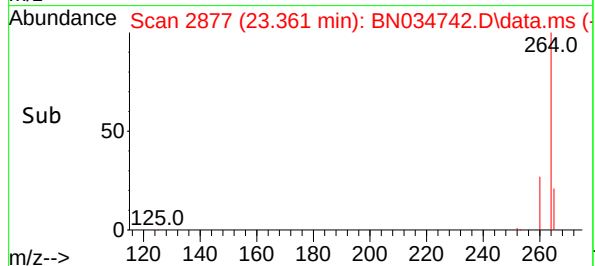
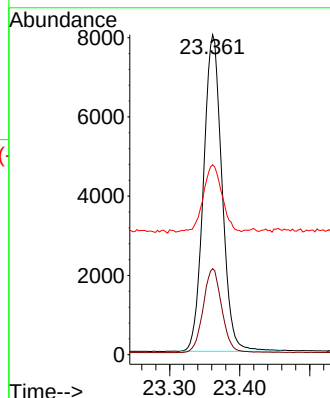
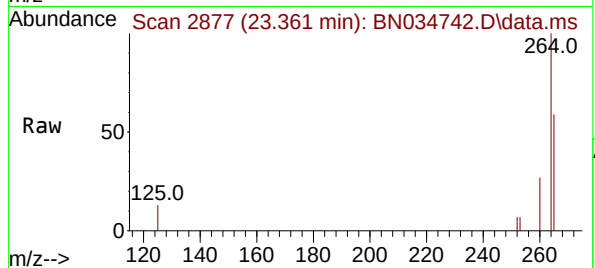
Tgt Ion:264 Resp: 14673

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 59.4 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.362 ng

RT: 25.536 min Scan# 3621

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

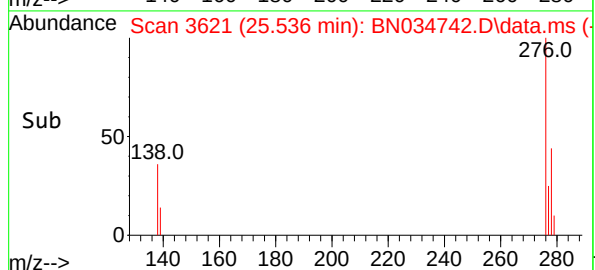
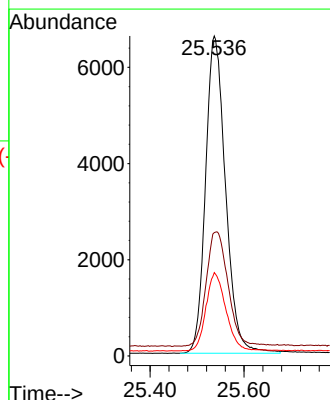
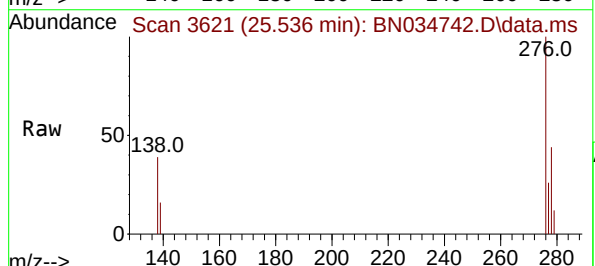
Tgt Ion:276 Resp: 19549

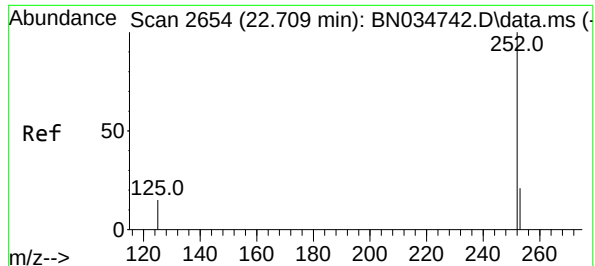
Ion Ratio Lower Upper

276 100

138 39.4 31.5 47.3

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.360 ng

RT: 22.709 min Scan# 2654

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

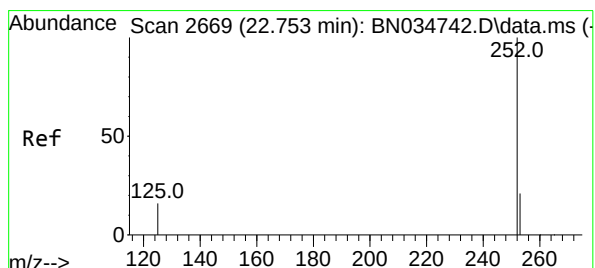
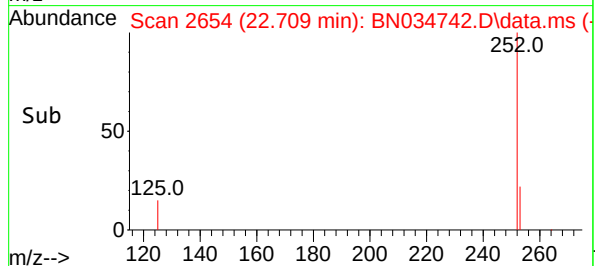
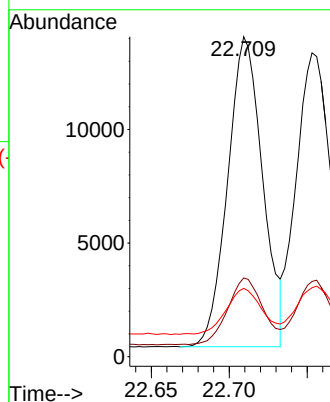
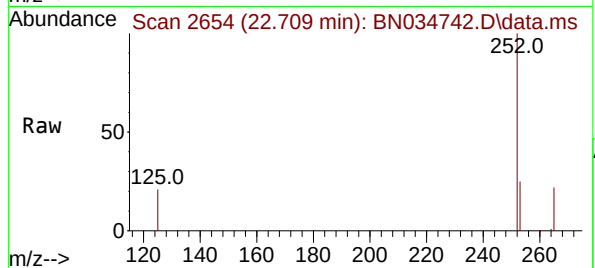
Tgt Ion:252 Resp: 21276

Ion Ratio Lower Upper

252 100

253 24.6 19.7 29.5

125 21.4 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.355 ng

RT: 22.753 min Scan# 2669

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

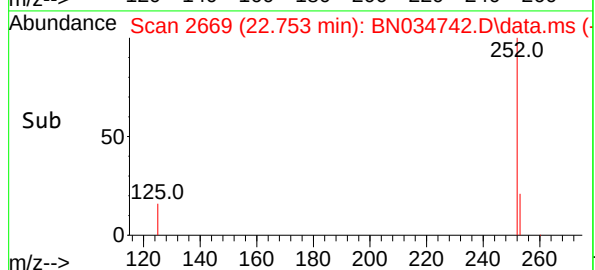
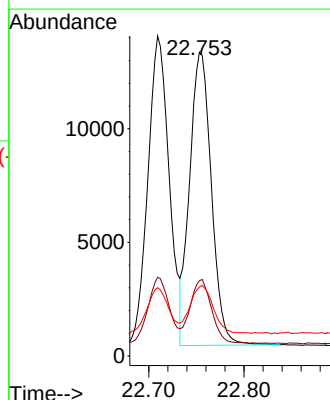
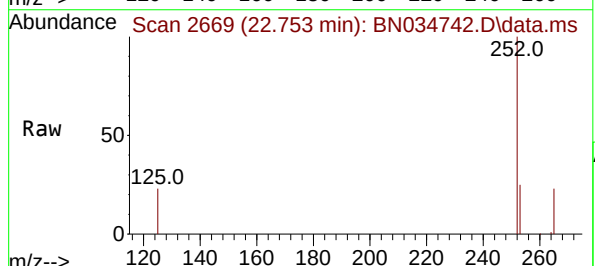
Tgt Ion:252 Resp: 20480

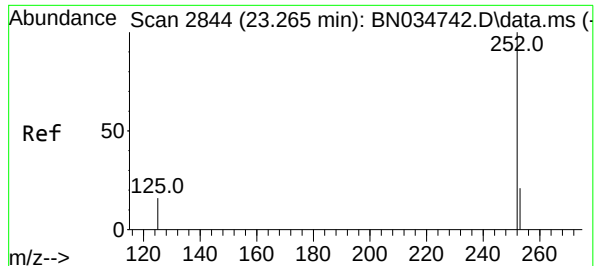
Ion Ratio Lower Upper

252 100

253 24.7 19.8 29.6

125 22.7 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.355 ng

RT: 23.265 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

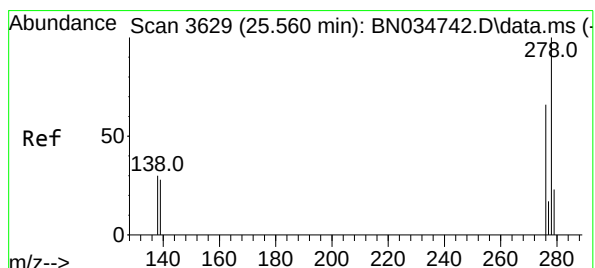
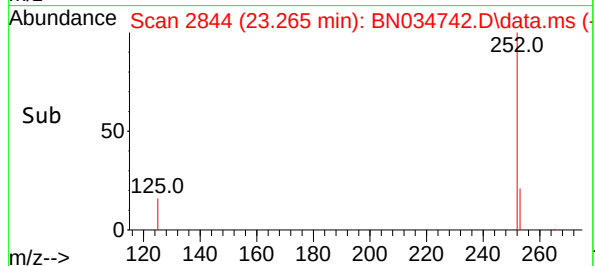
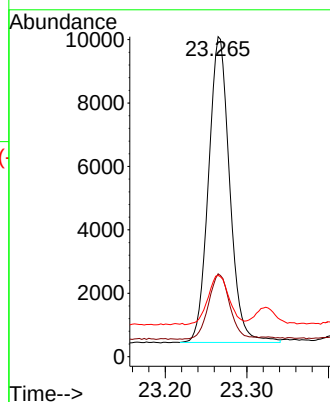
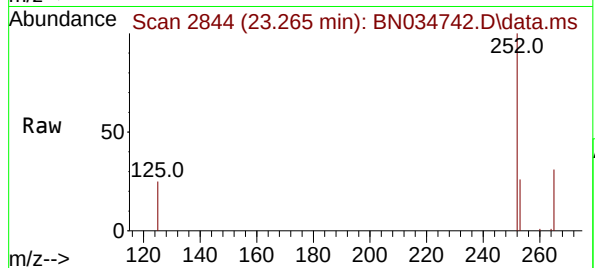
Tgt Ion:252 Resp: 17327

Ion Ratio Lower Upper

252 100

253 25.9 20.7 31.1

125 25.4 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.361 ng

RT: 25.560 min Scan# 3629

Delta R.T. 0.000 min

Lab File: BN034742.D

Acq: 30 Oct 2024 10:32

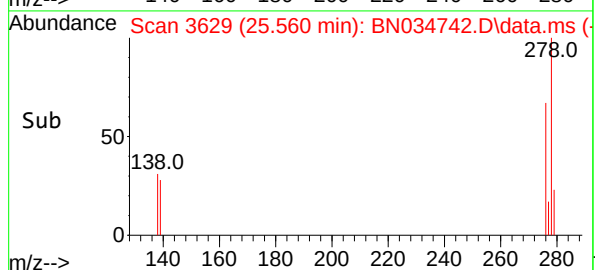
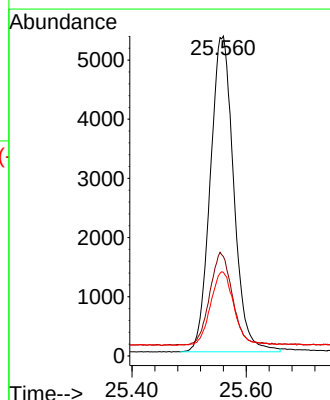
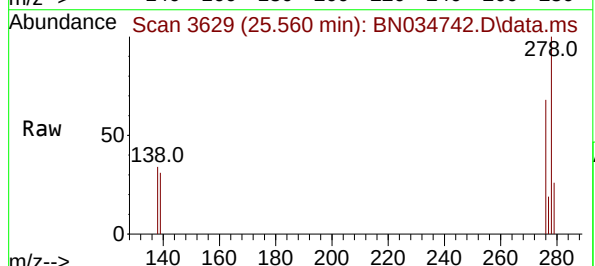
Tgt Ion:278 Resp: 15182

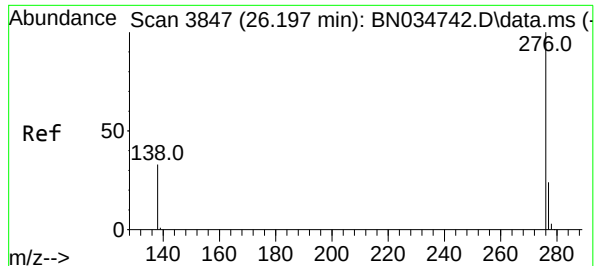
Ion Ratio Lower Upper

278 100

139 31.1 24.9 37.3

279 26.2 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.367 ng

RT: 26.197 min Scan# 3847

Delta R.T. 0.000 min

Lab File: BN034742.D

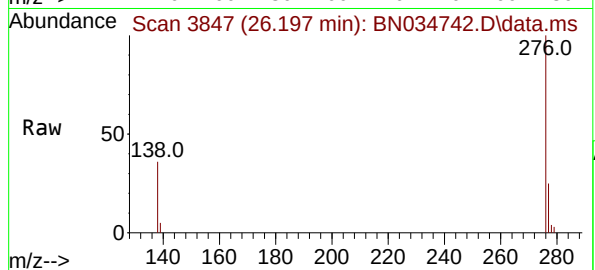
Acq: 30 Oct 2024 10:32

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



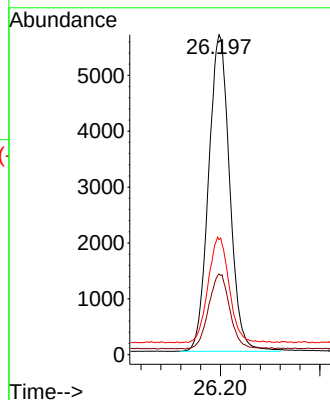
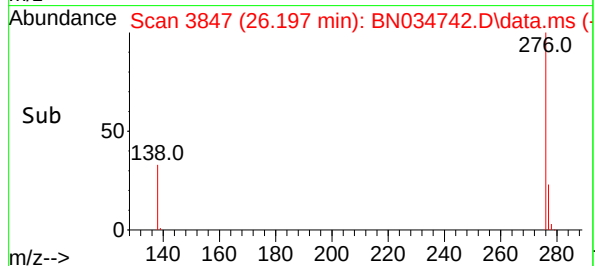
Tgt Ion:276 Resp: 16694

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 35.9 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034743.D
 Acq On : 30 Oct 2024 11:08
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Oct 30 13:32:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

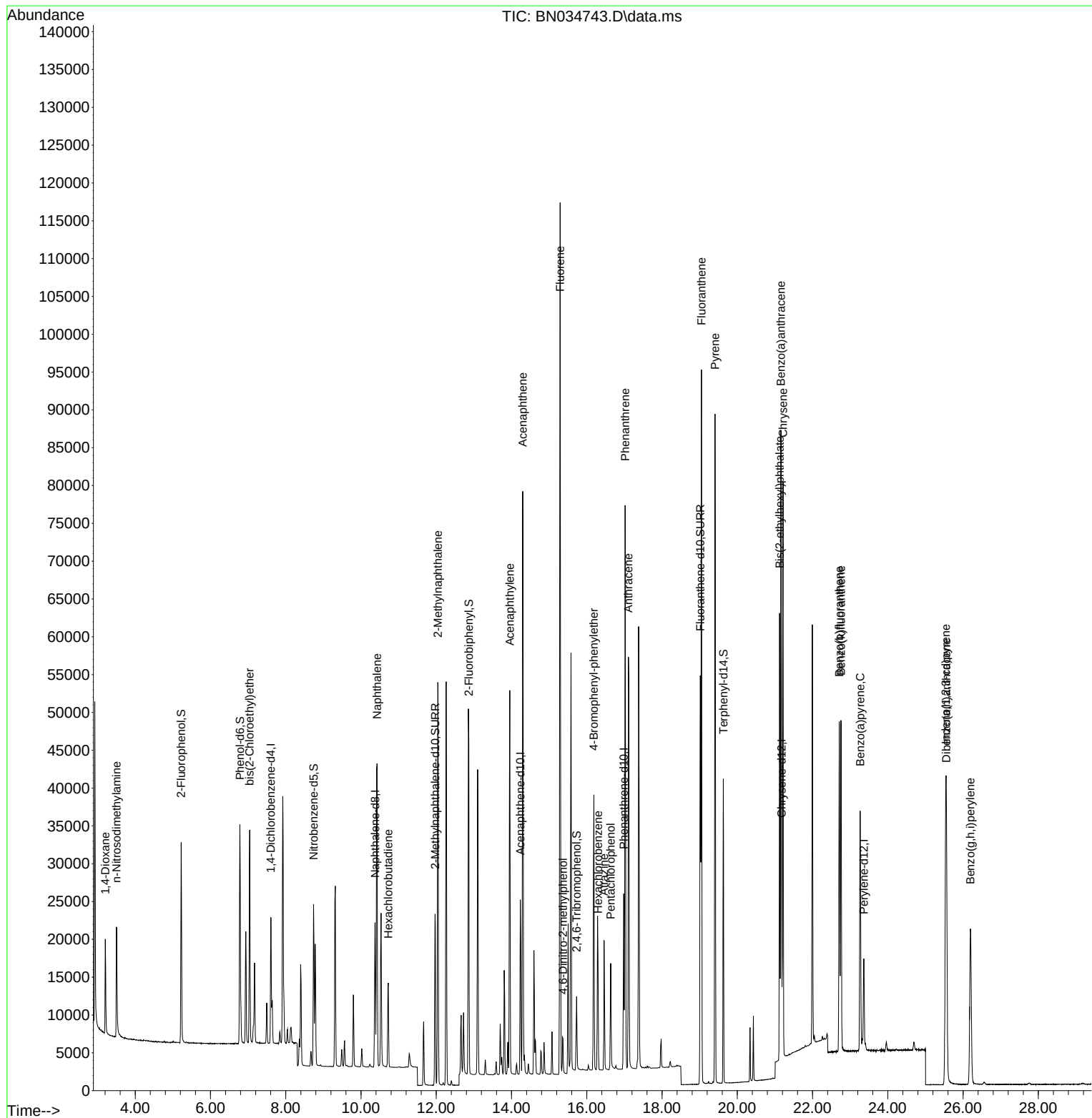
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7844	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	23416	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	12641	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	27616	0.400	ng	0.00
29) Chrysene-d12	21.178	240	17392	0.400	ng	0.00
35) Perylene-d12	23.361	264	14751	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	20290	0.854	ng	0.00
5) Phenol-d6	6.780	99	26015	0.843	ng	0.00
8) Nitrobenzene-d5	8.739	82	15848	0.861	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	29411	0.868	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	5165	0.827	ng	0.00
15) 2-Fluorobiphenyl	12.864	172	43648	0.877	ng	0.00
27) Fluoranthene-d10	19.015	212	55546	0.858	ng	0.00
31) Terphenyl-d14	19.628	244	32374	0.867	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	7250	0.843	ng	95
3) n-Nitrosodimethylamine	3.502	42	8426	0.869	ng	100
6) bis(2-Chloroethyl)ether	7.040	93	19568	0.868	ng	100
9) Naphthalene	10.426	128	55797	0.862	ng	99
10) Hexachlorobutadiene	10.725	225	9215	0.864	ng	# 99
12) 2-Methylnaphthalene	12.041	142	36777	0.868	ng	99
16) Acenaphthylene	13.955	152	54517	0.860	ng	100
17) Acenaphthene	14.297	154	36855	0.872	ng	99
18) Fluorene	15.291	166	45912	0.872	ng	99
20) 4,6-Dinitro-2-methylph...	15.366	198	3291	0.802	ng	# 69
21) 4-Bromophenyl-phenylether	16.188	248	13565	0.849	ng	100
22) Hexachlorobenzene	16.299	284	15374	0.859	ng	99
23) Atrazine	16.461	200	11835	0.860	ng	99
24) Pentachlorophenol	16.635	266	6270	0.814	ng	98
25) Phenanthrene	17.019	178	70004	0.862	ng	100
26) Anthracene	17.106	178	64216	0.845	ng	100
28) Fluoranthene	19.048	202	77562	0.866	ng	100
30) Pyrene	19.410	202	79305	0.872	ng	100
32) Benzo(a)anthracene	21.160	228	59862	0.865	ng	99
33) Chrysene	21.214	228	58705	0.866	ng	100
34) Bis(2-ethylhexyl)phtha...	21.125	149	48274	0.834	ng	100
36) Indeno(1,2,3-cd)pyrene	25.539	276	46389	0.855	ng	100
37) Benzo(b)fluoranthene	22.709	252	51704	0.871	ng	94
38) Benzo(k)fluoranthene	22.753	252	50258	0.867	ng	94
39) Benzo(a)pyrene	23.265	252	42305	0.863	ng	# 92
40) Dibenzo(a,h)anthracene	25.557	278	36275	0.857	ng	96
41) Benzo(g,h,i)perylene	26.194	276	39205	0.857	ng	99

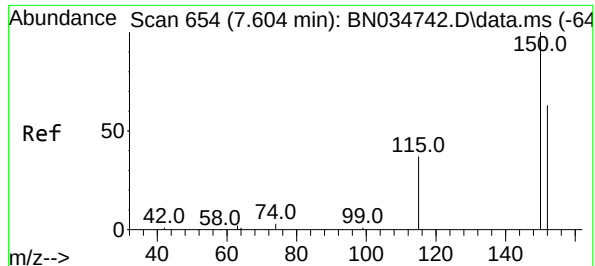
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034743.D
Acq On : 30 Oct 2024 11:08
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Oct 30 13:32:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

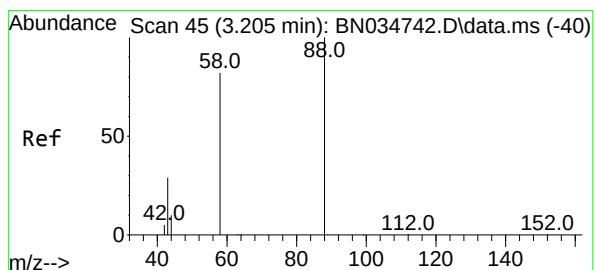
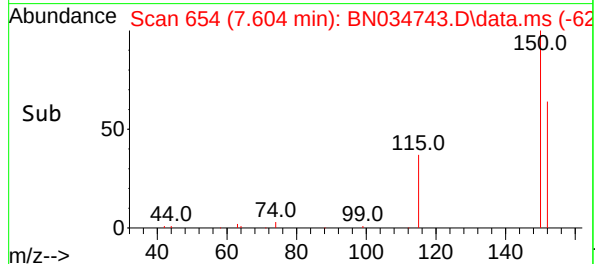
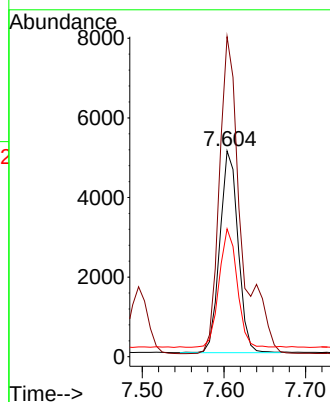
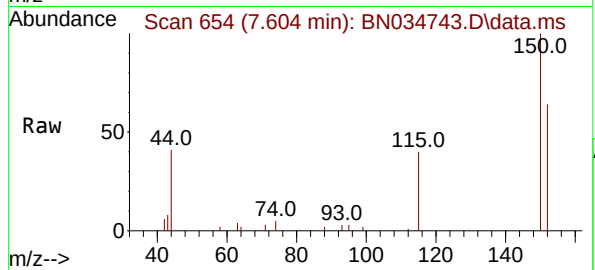




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

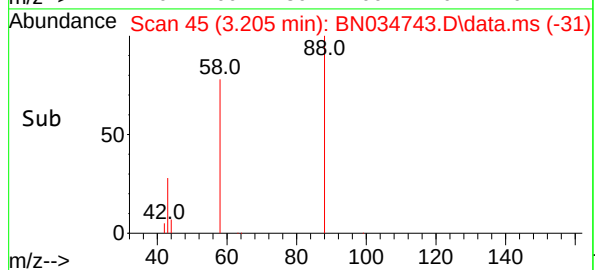
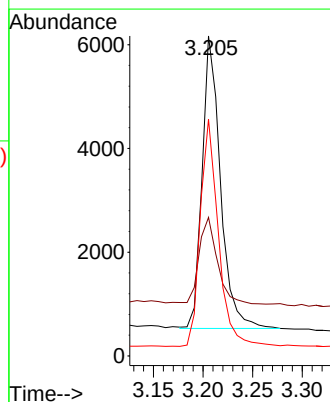
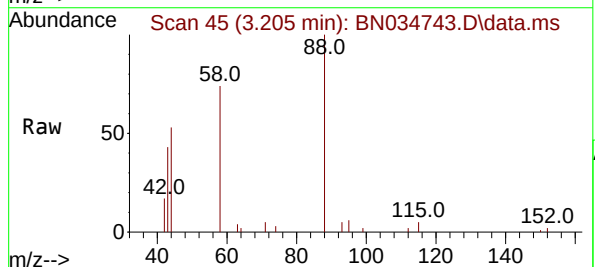
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

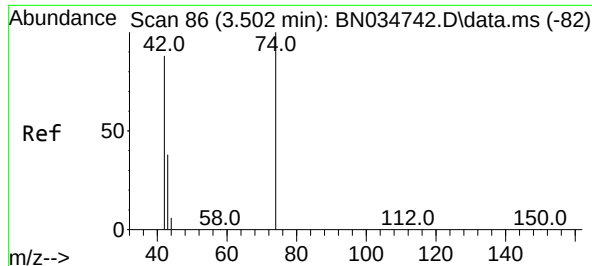
Tgt Ion:152 Resp: 7844
Ion Ratio Lower Upper
152 100
150 155.5 124.9 187.3
115 62.1 50.2 75.2



#2
1,4-Dioxane
Concen: 0.843 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion: 88 Resp: 7250
Ion Ratio Lower Upper
88 100
43 29.6 26.7 40.1
58 77.2 59.3 88.9

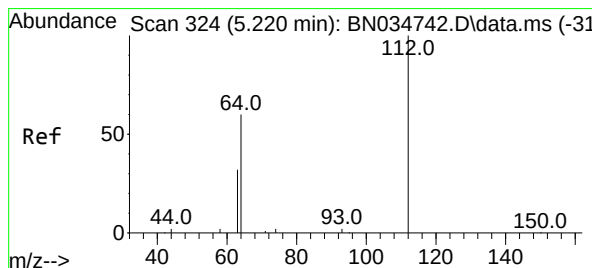
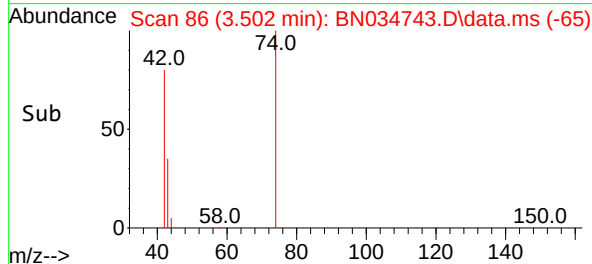
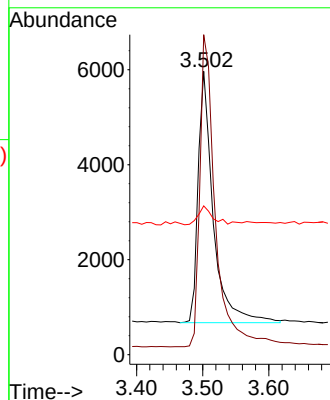
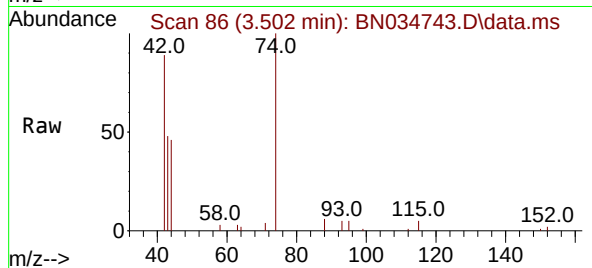




#3
n-Nitrosodimethylamine
Concen: 0.869 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

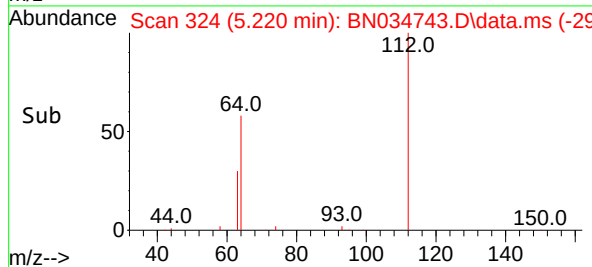
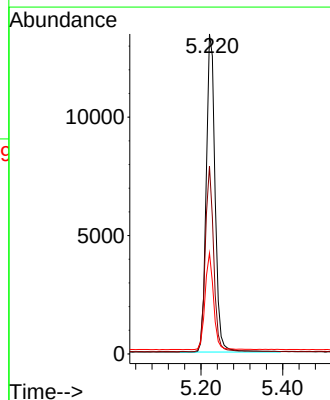
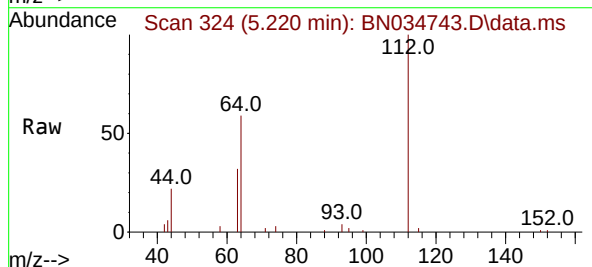
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

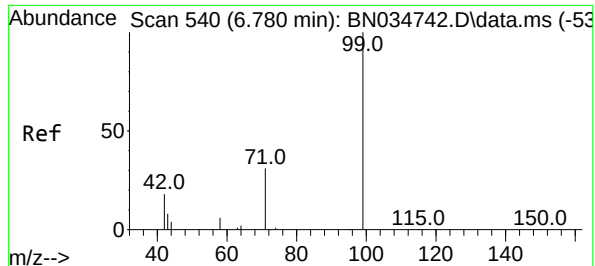
Tgt Ion: 42 Resp: 8426
Ion Ratio Lower Upper
42 100
74 129.0 103.1 154.7
44 7.4 6.7 10.1



#4
2-Fluorophenol
Concen: 0.854 ng
RT: 5.220 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion: 112 Resp: 20290
Ion Ratio Lower Upper
112 100
64 55.8 44.9 67.3
63 29.2 23.5 35.3

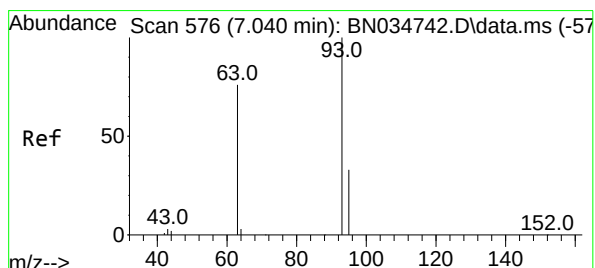
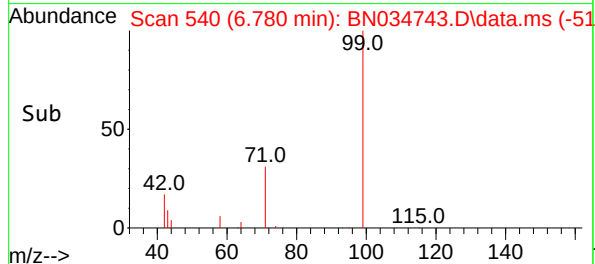
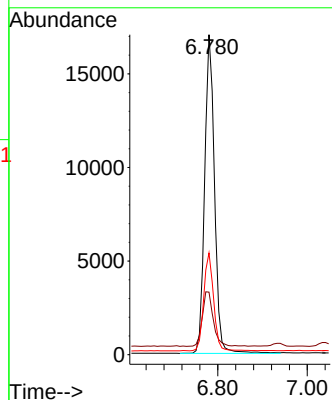
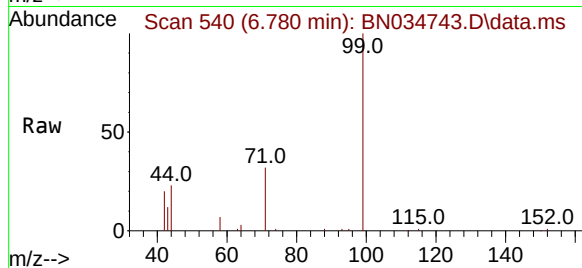




#5
Phenol-d6
Concen: 0.843 ng
RT: 6.780 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

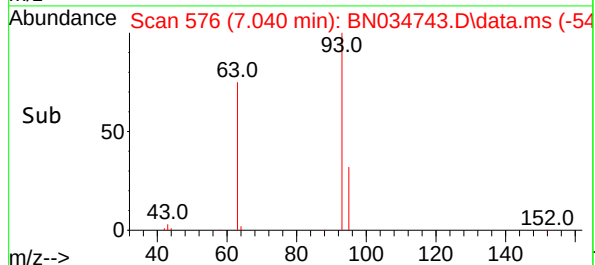
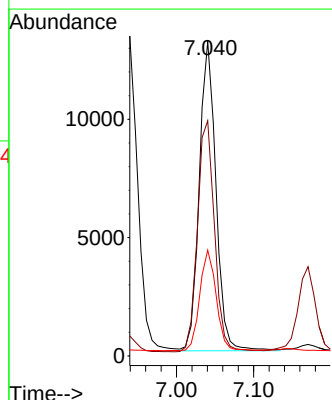
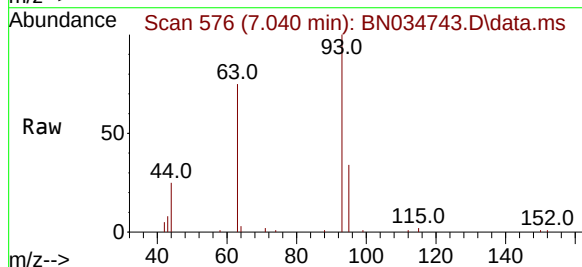
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

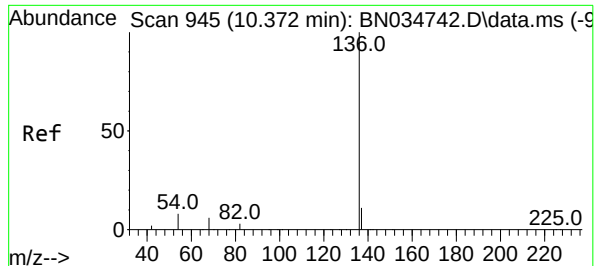
Tgt Ion: 99 Resp: 26015
Ion Ratio Lower Upper
99 100
42 19.2 15.9 23.9
71 31.1 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.868 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion: 93 Resp: 19568
Ion Ratio Lower Upper
93 100
63 76.8 61.2 91.8
95 32.2 25.8 38.8

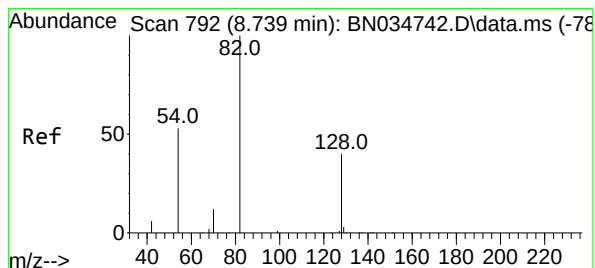
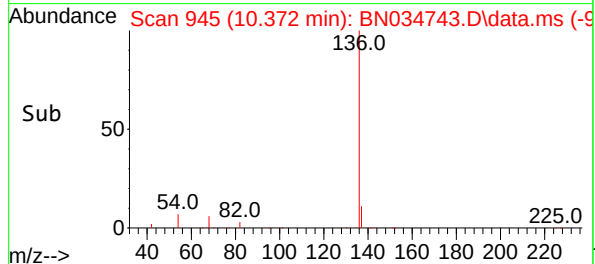
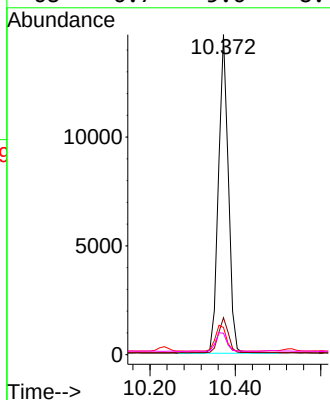
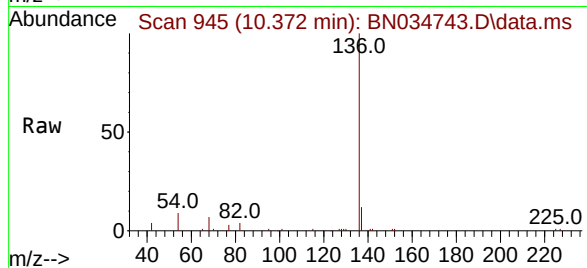




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

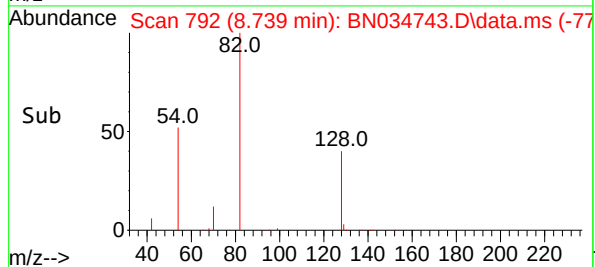
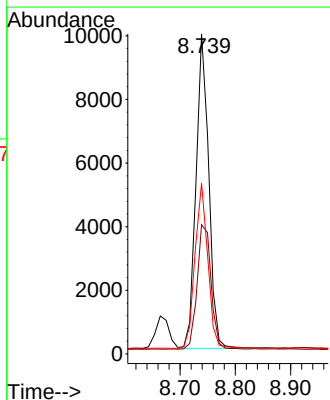
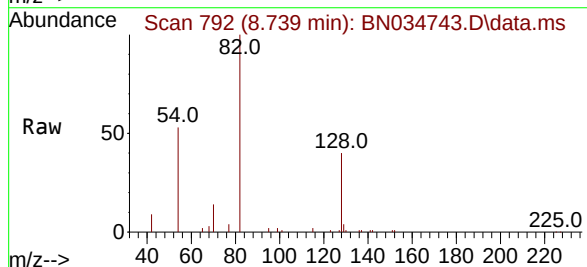
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

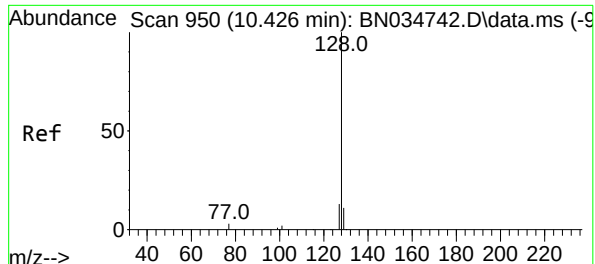
Tgt Ion:	136	Resp:	23416
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	8.5	7.0	10.4
68	6.7	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.861 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:	82	Resp:	15848
Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.7	50.5
54	53.3	44.4	66.6





#9

Naphthalene

Concen: 0.862 ng

RT: 10.426 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

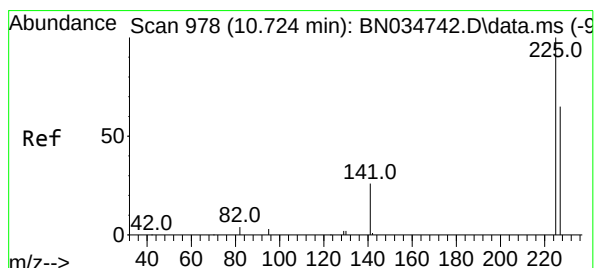
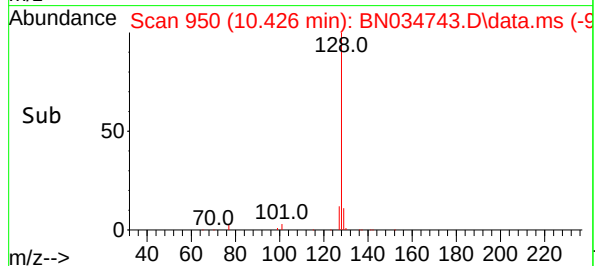
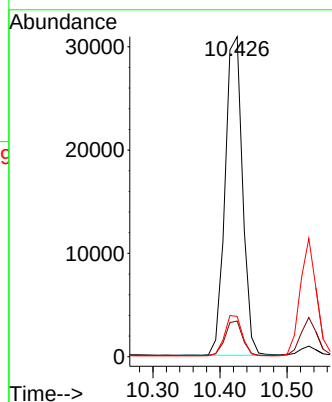
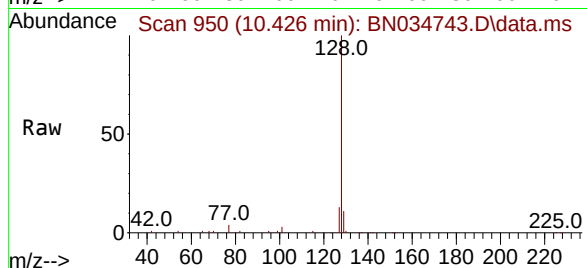
Tgt Ion:128 Resp: 55797

Ion Ratio Lower Upper

128 100

129 11.1 9.4 14.0

127 12.6 10.6 15.8



#10

Hexachlorobutadiene

Concen: 0.864 ng

RT: 10.725 min Scan# 978

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

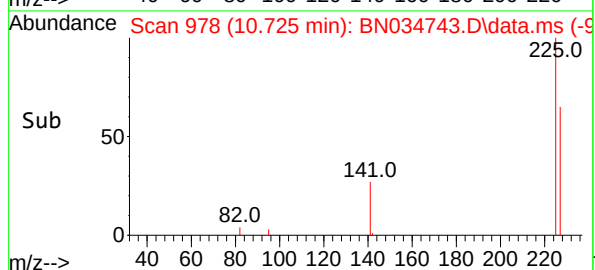
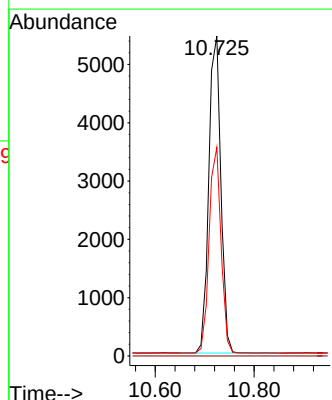
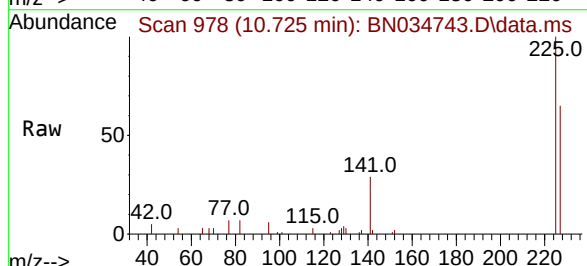
Tgt Ion:225 Resp: 9215

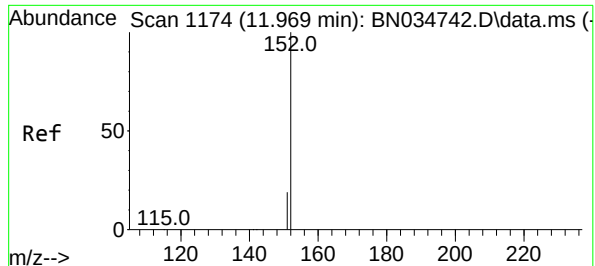
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.9 51.4 77.2

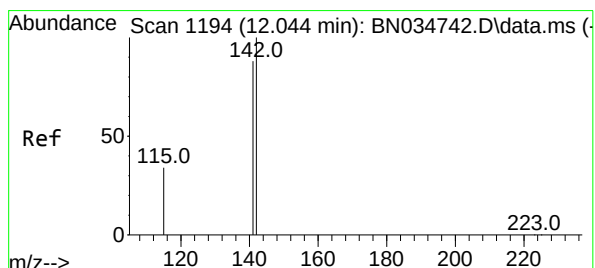
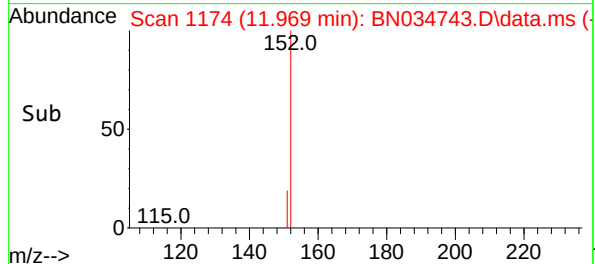
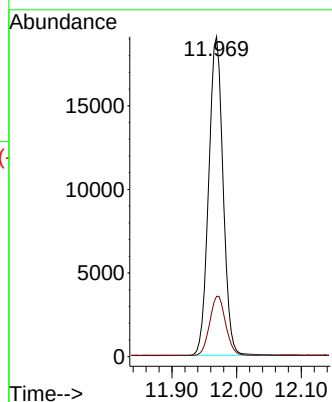
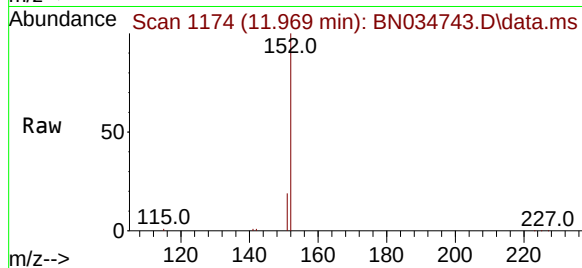




#11
2-Methylnaphthalene-d10
Concen: 0.868 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

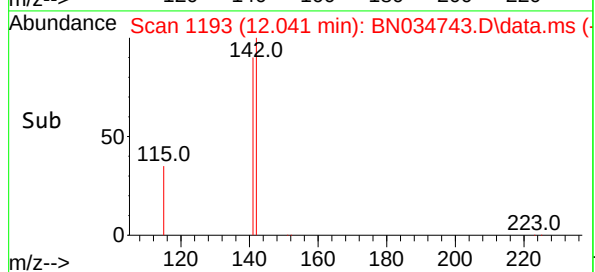
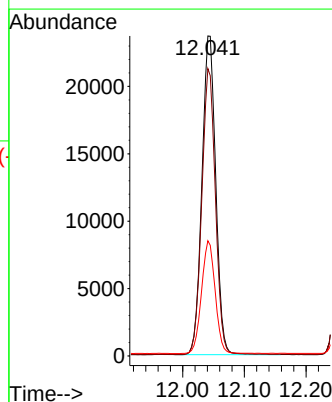
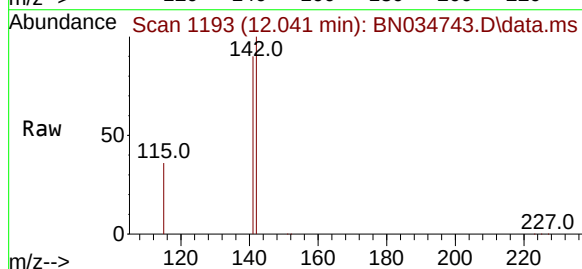
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

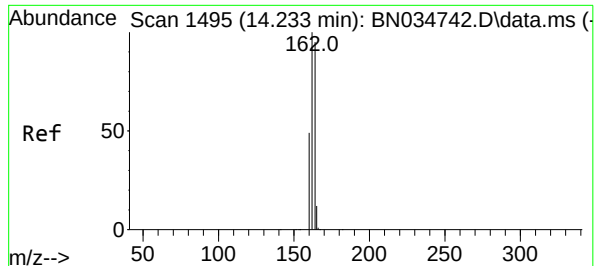
Tgt Ion:152 Resp: 29411
Ion Ratio Lower Upper
152 100
151 20.6 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.868 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:142 Resp: 36777
Ion Ratio Lower Upper
142 100
141 89.8 70.6 106.0
115 36.0 28.6 42.8

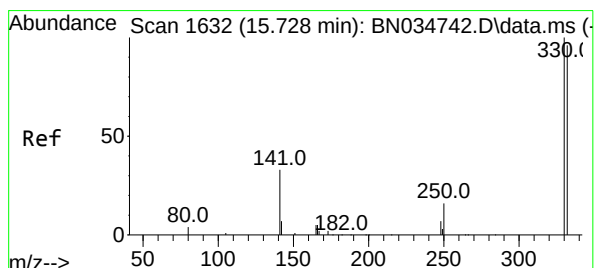
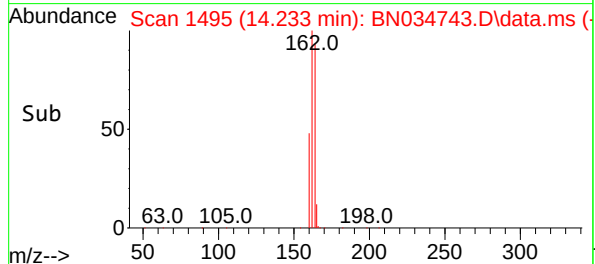
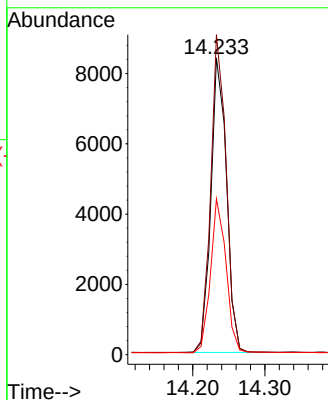
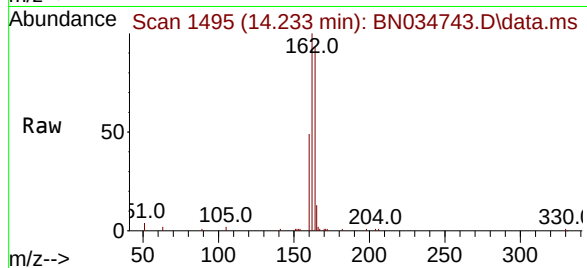




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.233 min Scan# 1495
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

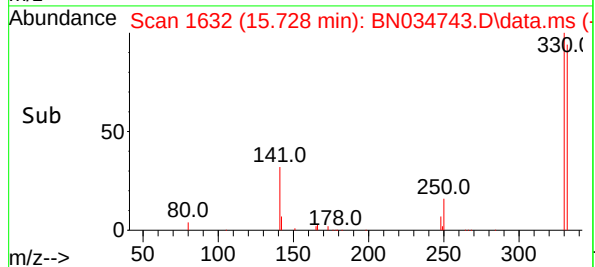
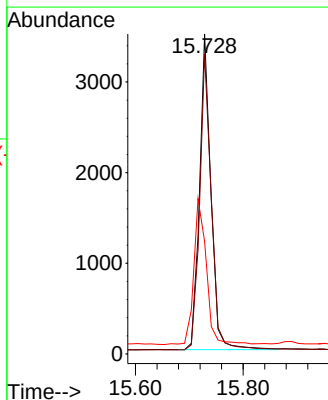
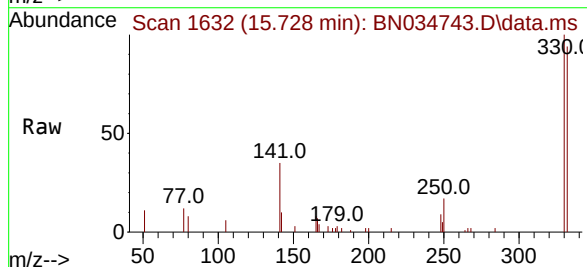
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

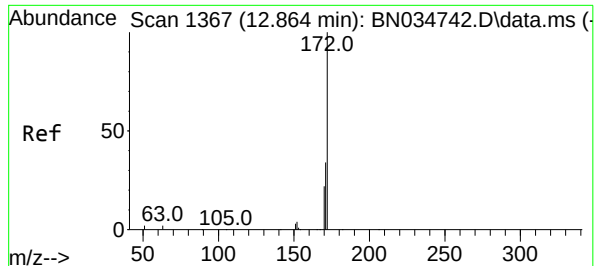
Tgt Ion:164 Resp: 12641
Ion Ratio Lower Upper
164 100
162 107.8 84.3 126.5
160 52.5 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.827 ng
RT: 15.728 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:330 Resp: 5165
Ion Ratio Lower Upper
330 100
332 95.5 77.8 116.6
141 50.6 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 0.877 ng

RT: 12.864 min Scan# 1367

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

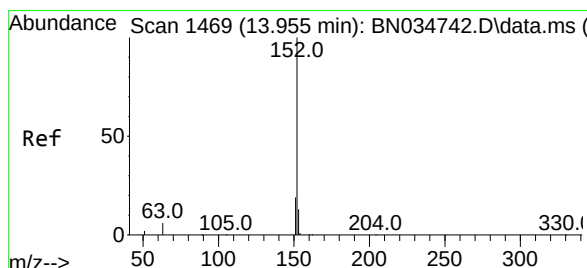
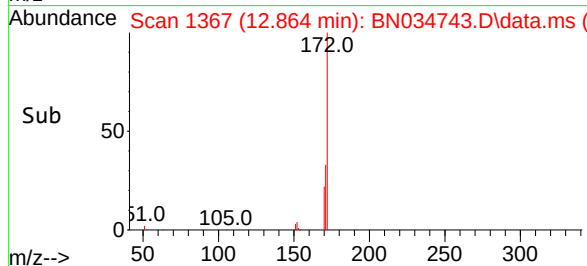
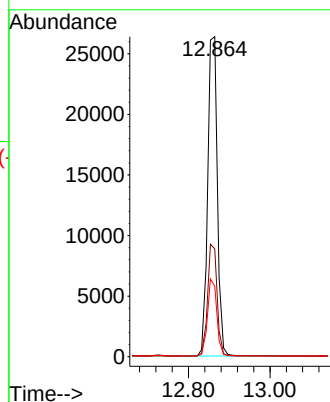
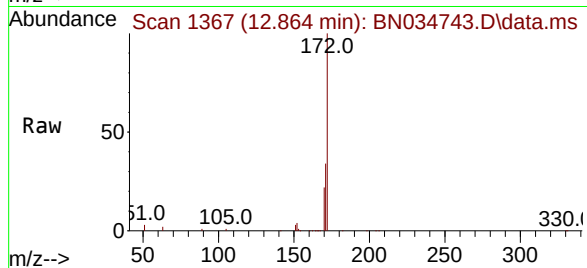
Tgt Ion:172 Resp: 43648

Ion Ratio Lower Upper

172 100

171 33.7 27.2 40.8

170 22.0 18.0 27.0



#16

Acenaphthylene

Concen: 0.860 ng

RT: 13.955 min Scan# 1469

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

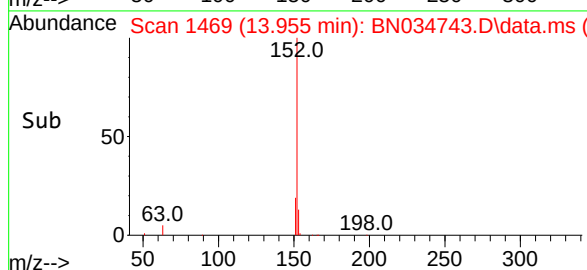
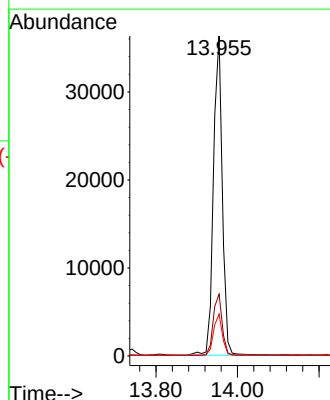
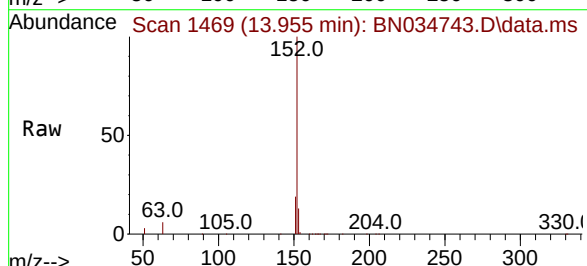
Tgt Ion:152 Resp: 54517

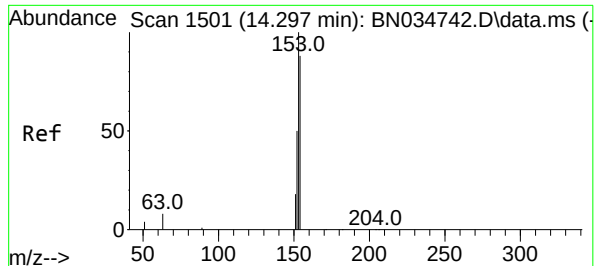
Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.2

153 12.8 10.2 15.4

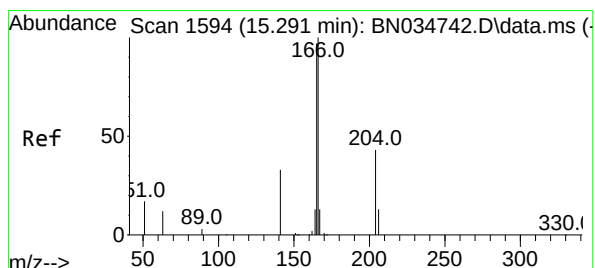
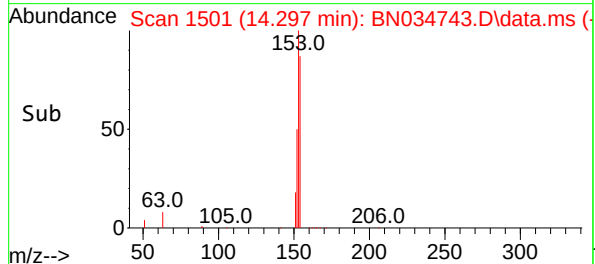
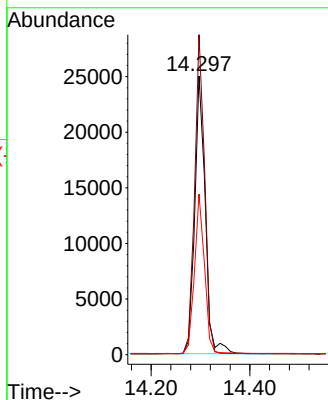
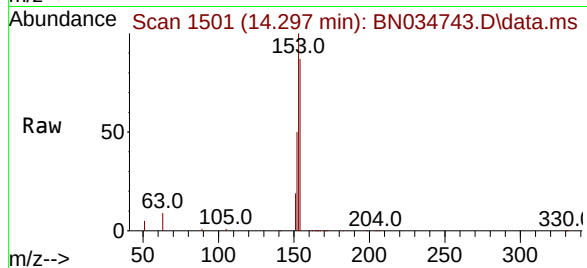




#17
Acenaphthene
Concen: 0.872 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

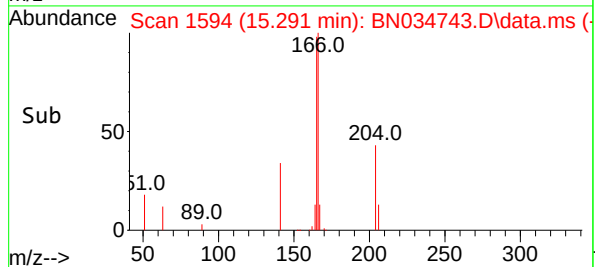
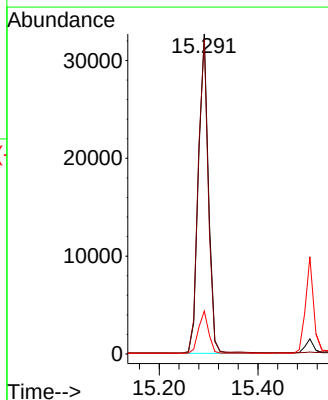
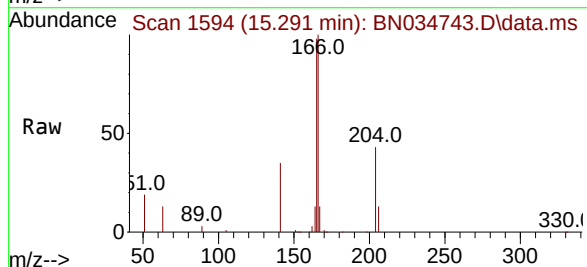
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

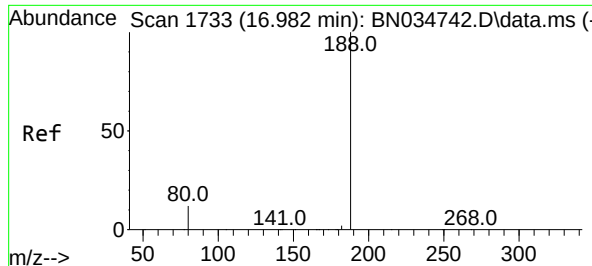
Tgt Ion:154 Resp: 36855
Ion Ratio Lower Upper
154 100
153 109.4 87.8 131.6
152 54.9 44.6 67.0



#18
Fluorene
Concen: 0.872 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:166 Resp: 45912
Ion Ratio Lower Upper
166 100
165 98.8 78.5 117.7
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 1733

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

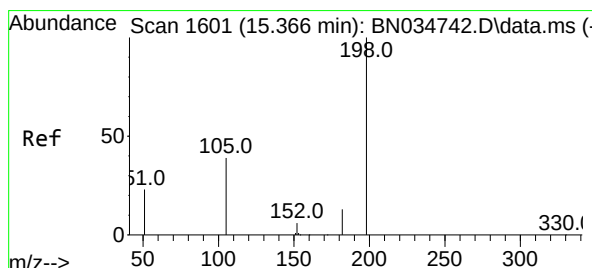
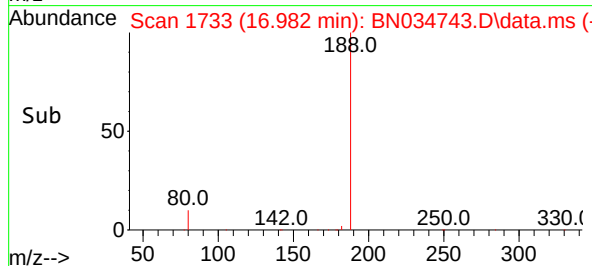
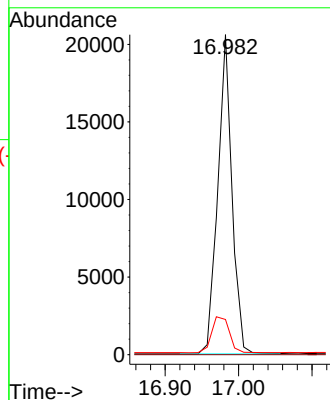
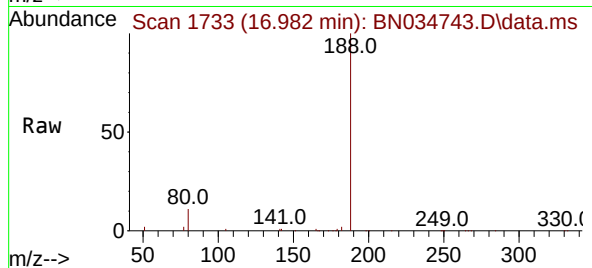
Tgt Ion:188 Resp: 27616

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.0 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.802 ng

RT: 15.366 min Scan# 1601

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

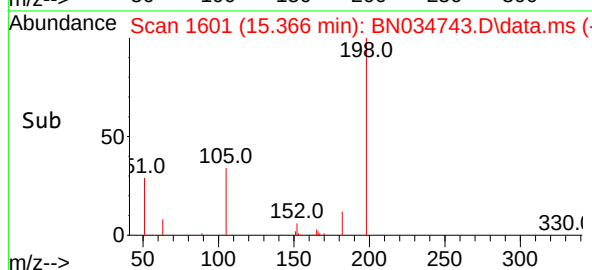
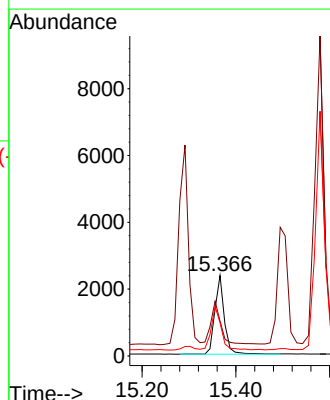
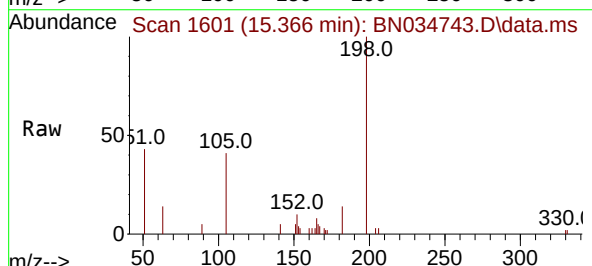
Tgt Ion:198 Resp: 3291

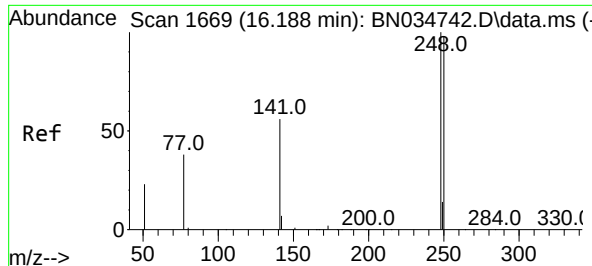
Ion Ratio Lower Upper

198 100

51 43.4 58.0 87.0#

105 41.2 49.1 73.7#





#21

4-Bromophenyl-phenylether

Concen: 0.849 ng

RT: 16.188 min Scan# 1669

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

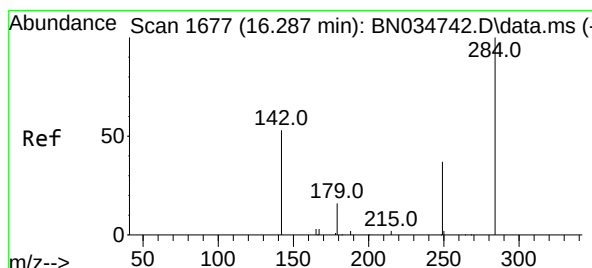
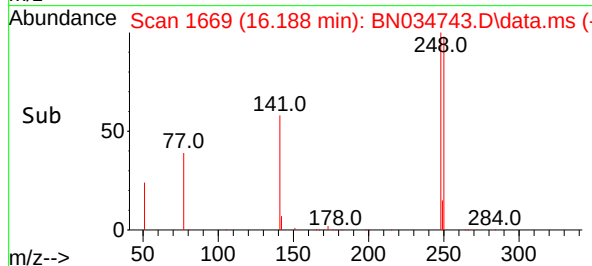
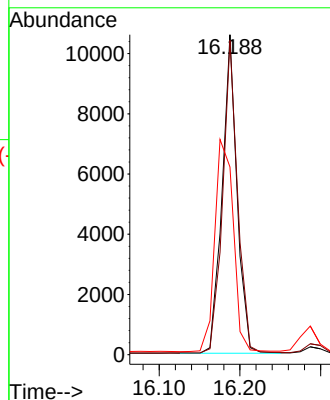
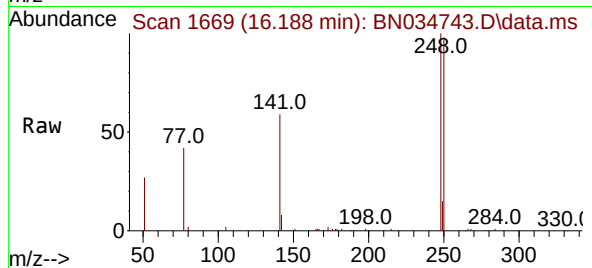
Tgt Ion:248 Resp: 13565

Ion Ratio Lower Upper

248 100

250 98.2 78.7 118.1

141 58.7 46.4 69.6



#22

Hexachlorobenzene

Concen: 0.859 ng

RT: 16.299 min Scan# 1678

Delta R.T. 0.012 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

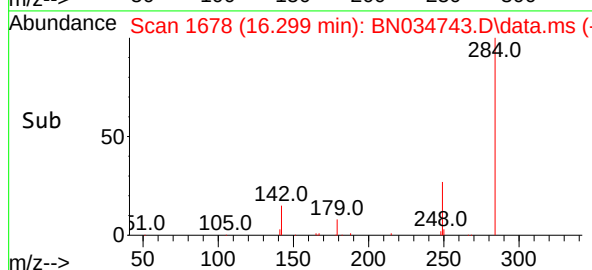
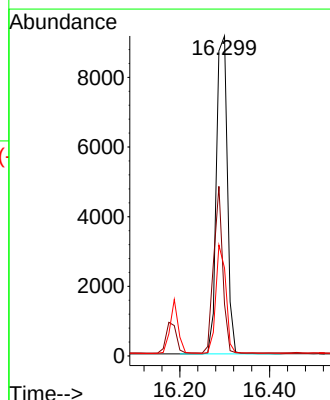
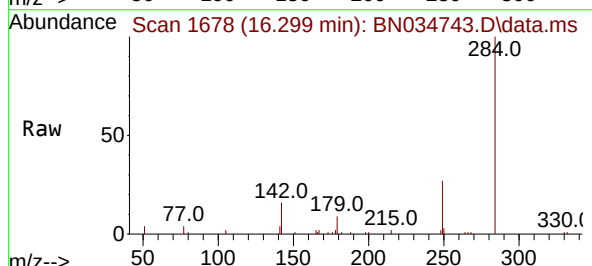
Tgt Ion:284 Resp: 15374

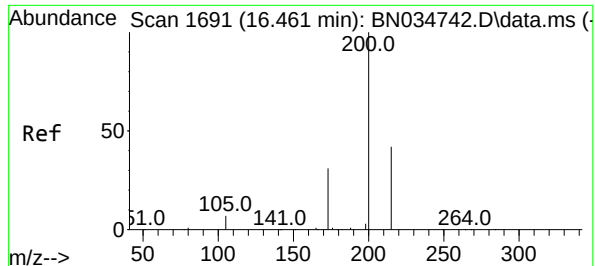
Ion Ratio Lower Upper

284 100

142 43.7 35.4 53.0

249 31.4 25.7 38.5





#23

Atrazine

Concen: 0.860 ng

RT: 16.461 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

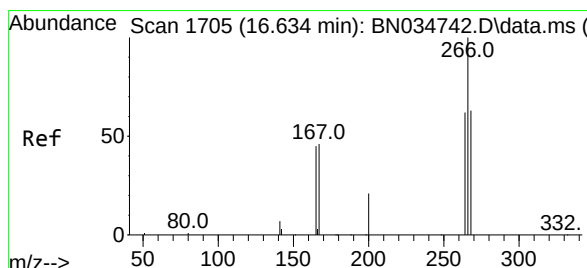
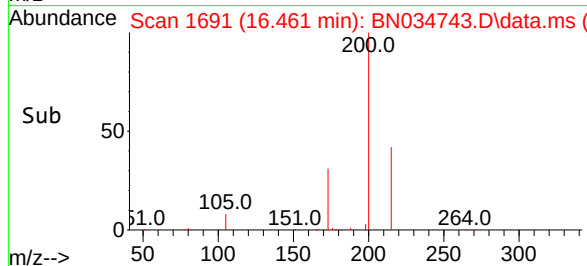
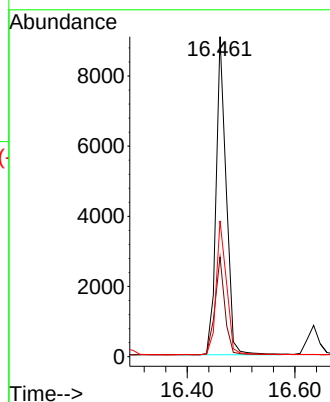
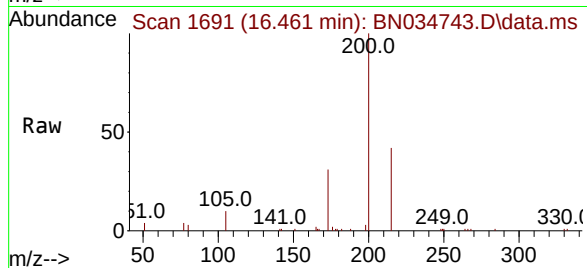
Tgt Ion:200 Resp: 11835

Ion Ratio Lower Upper

200 100

173 31.2 25.8 38.6

215 42.4 34.2 51.4



#24

Pentachlorophenol

Concen: 0.814 ng

RT: 16.635 min Scan# 1705

Delta R.T. 0.001 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

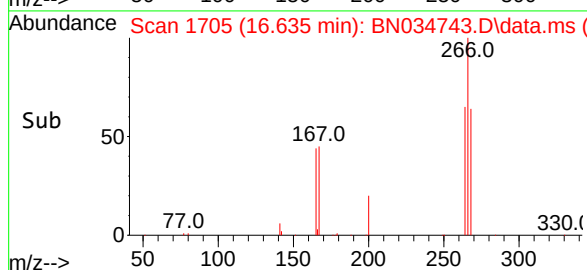
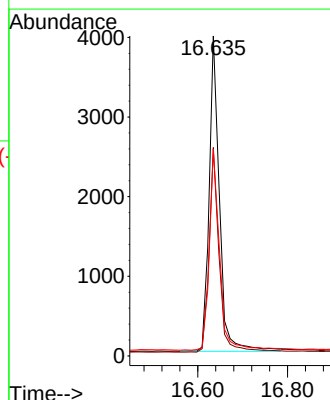
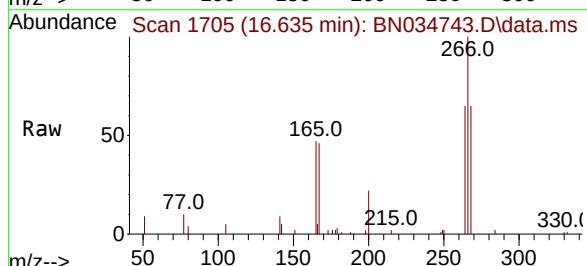
Tgt Ion:266 Resp: 6270

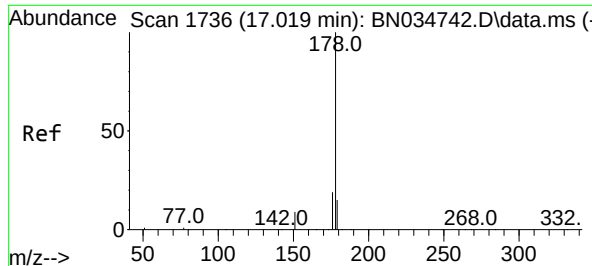
Ion Ratio Lower Upper

266 100

264 63.6 48.7 73.1

268 63.8 50.2 75.4

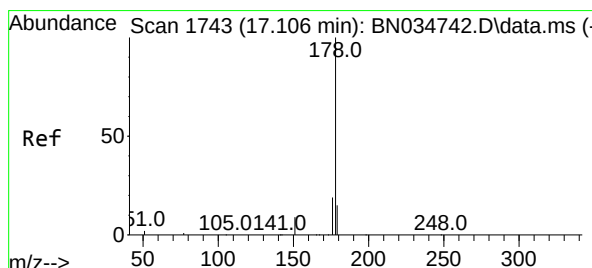
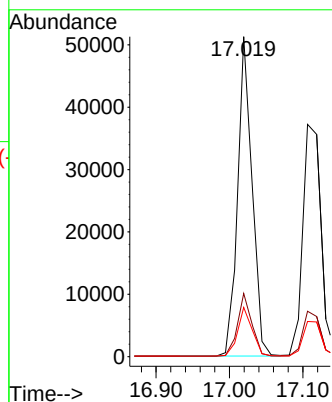
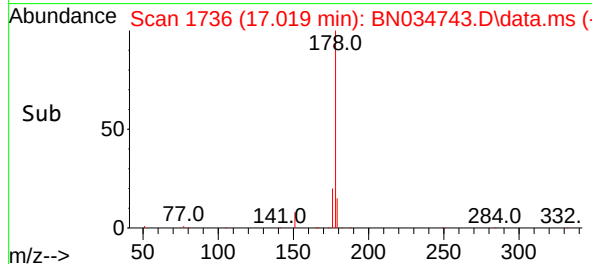
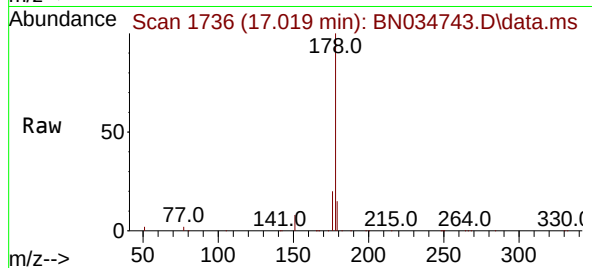




#25
Phenanthrene
Concen: 0.862 ng
RT: 17.019 min Scan# 1736
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

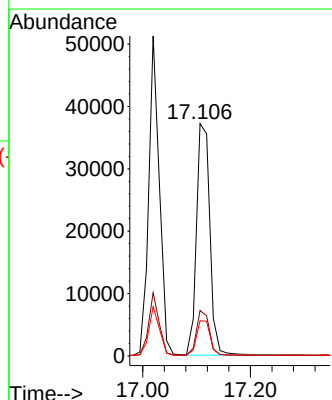
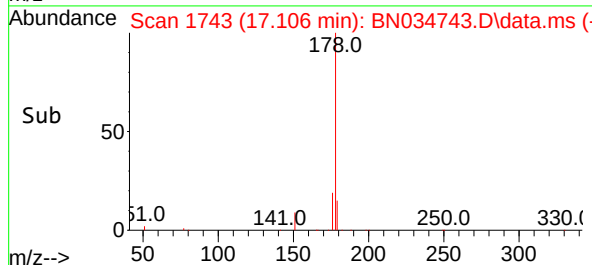
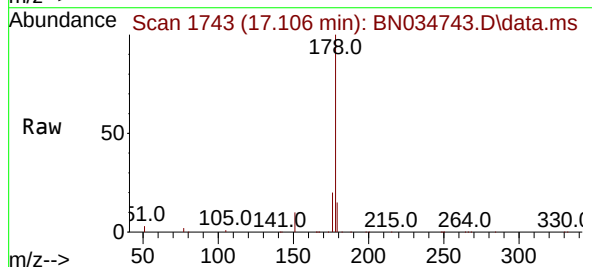
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

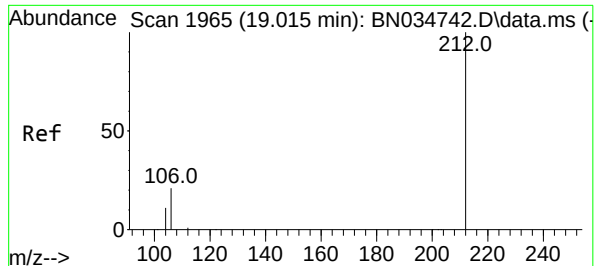
Tgt Ion:178 Resp: 70004
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.3 12.2 18.4



#26
Anthracene
Concen: 0.845 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion:178 Resp: 64216
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.858 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

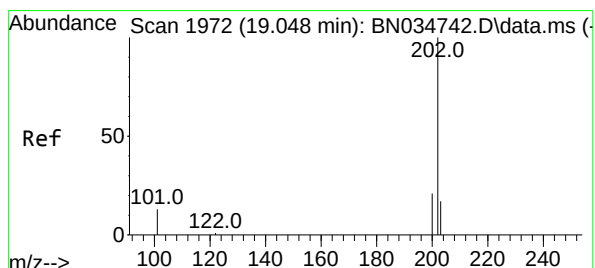
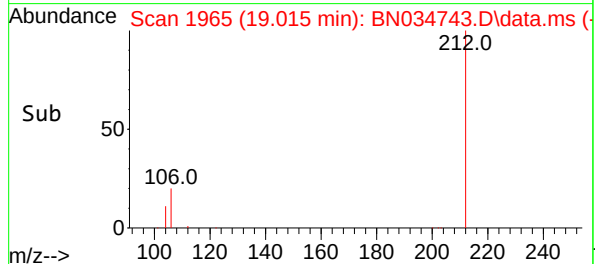
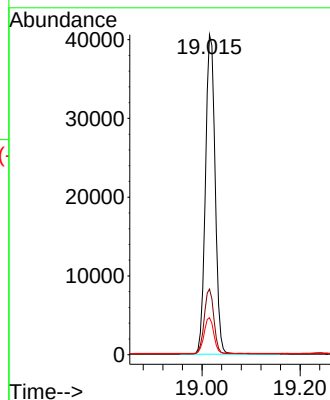
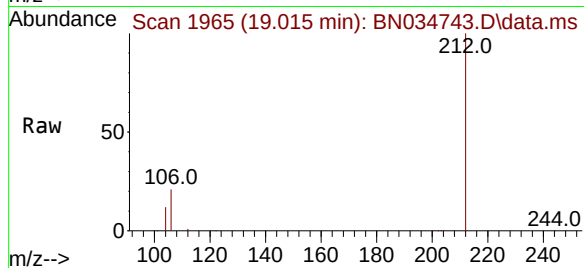
Tgt Ion:212 Resp: 55546

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.2 9.2 13.8



#28

Fluoranthene

Concen: 0.866 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

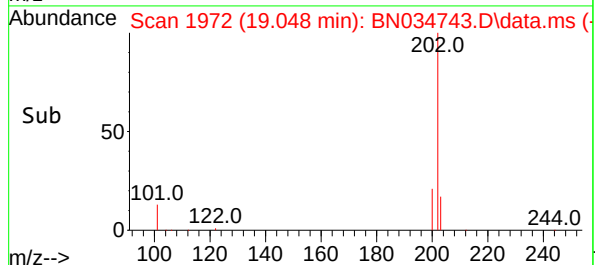
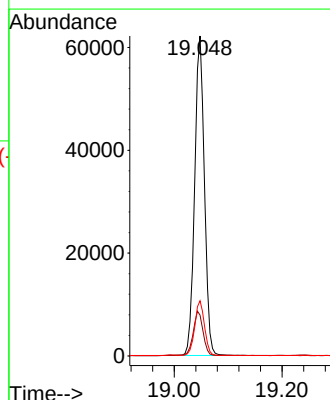
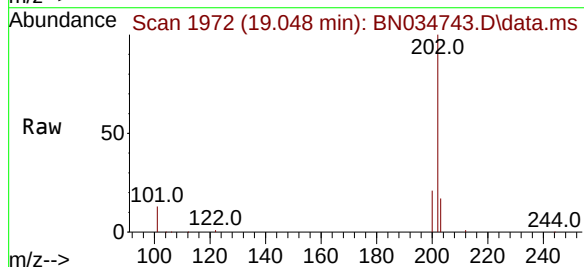
Tgt Ion:202 Resp: 77562

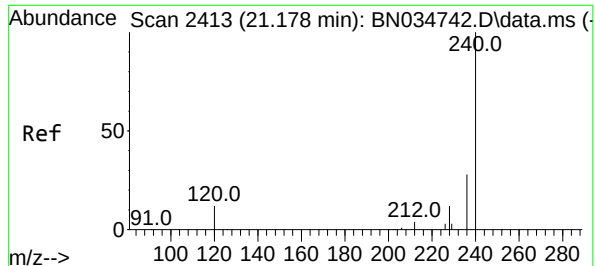
Ion Ratio Lower Upper

202 100

101 14.1 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

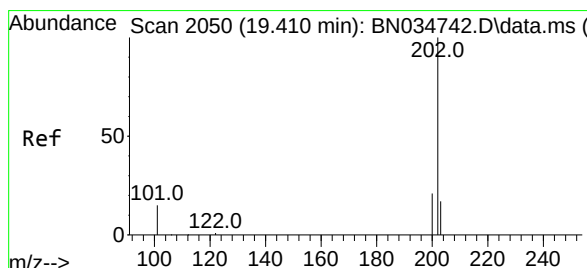
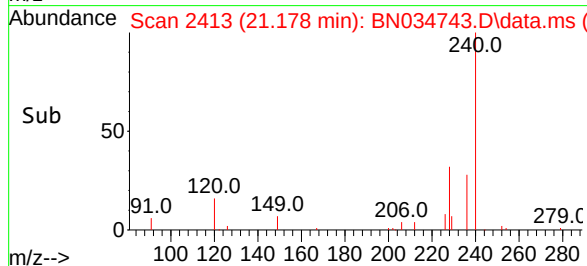
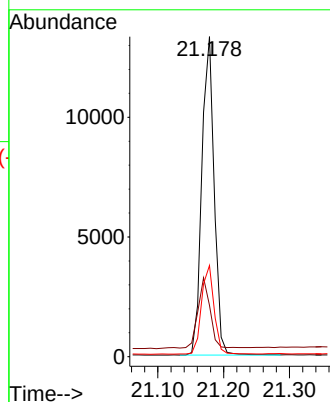
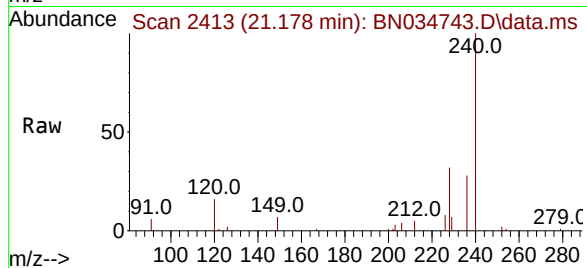
Tgt Ion:240 Resp: 17392

Ion Ratio Lower Upper

240 100

120 16.1 11.5 17.3

236 28.5 23.2 34.8



#30

Pyrene

Concen: 0.872 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

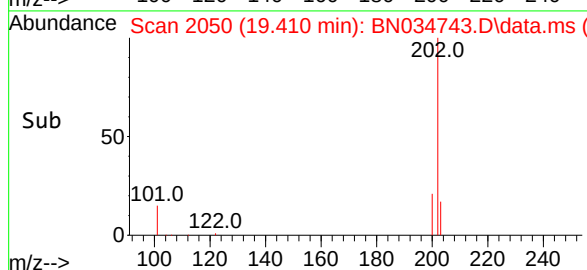
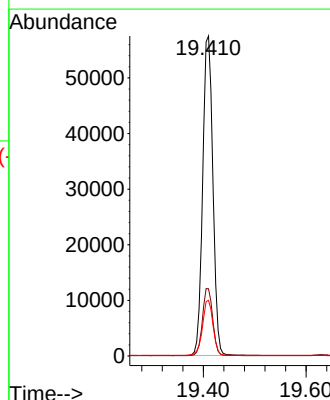
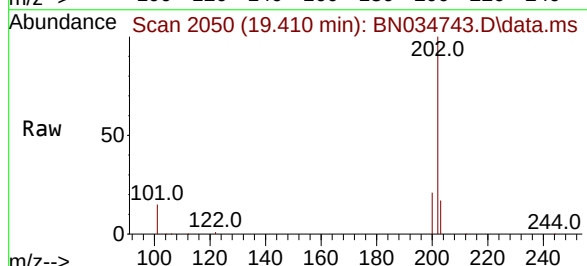
Tgt Ion:202 Resp: 79305

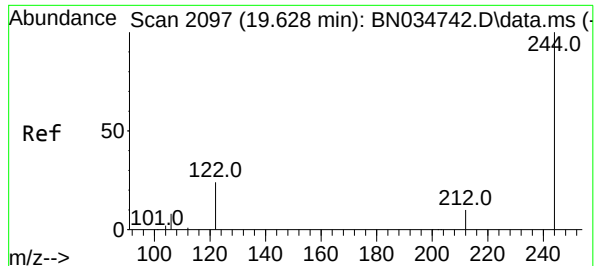
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 17.7 14.2 21.2

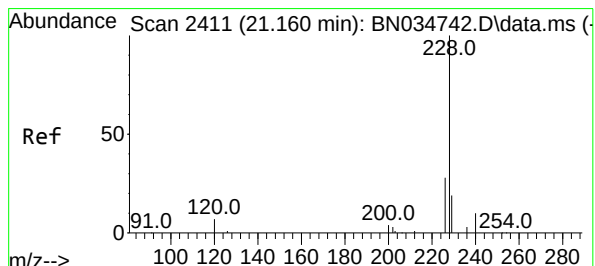
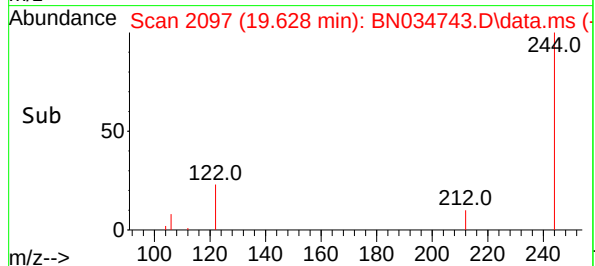
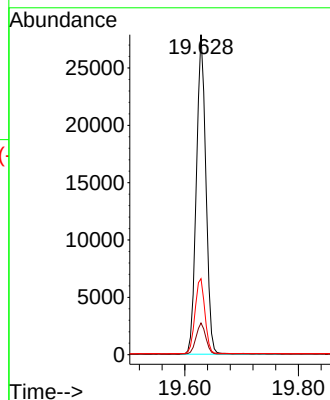
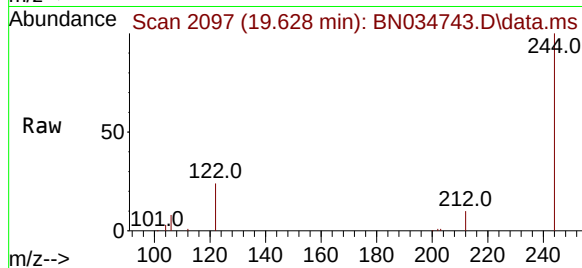




#31
Terphenyl-d14
Concen: 0.867 ng
RT: 19.628 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

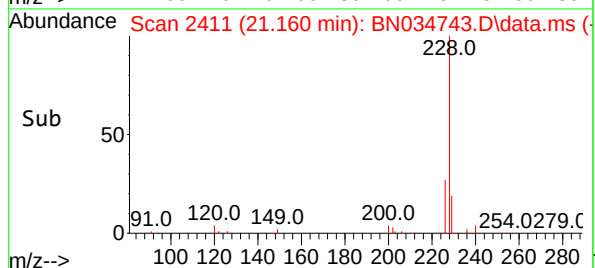
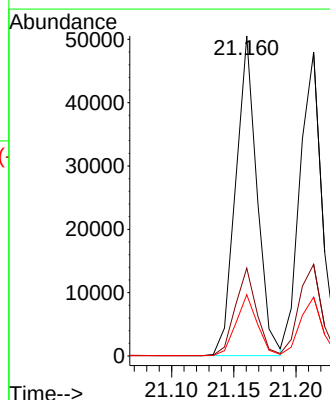
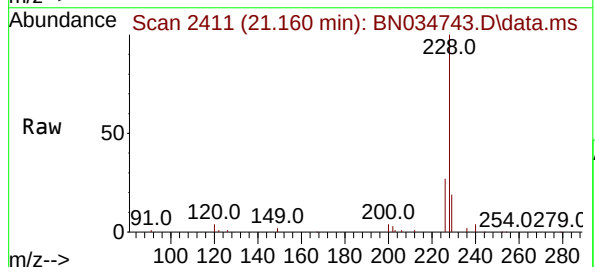
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

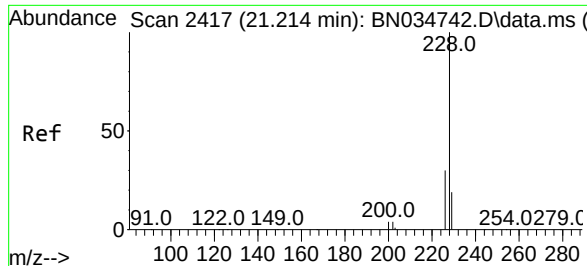
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.9	8.2	12.4
122	23.7	19.8	29.6



#32
Benzo(a)anthracene
Concen: 0.865 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034743.D
Acq: 30 Oct 2024 11:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.6	33.8
229	19.2	15.7	23.5





#33

Chrysene

Concen: 0.866 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

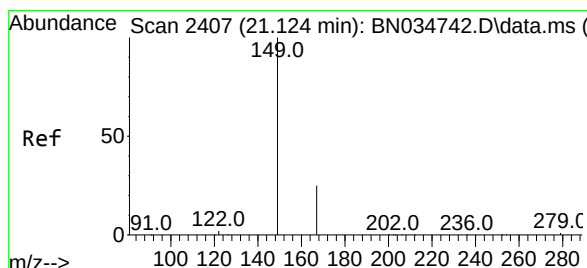
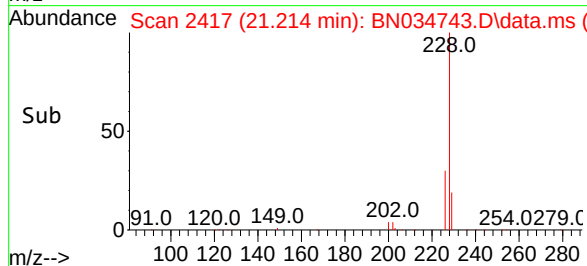
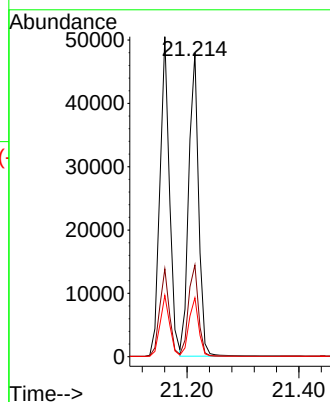
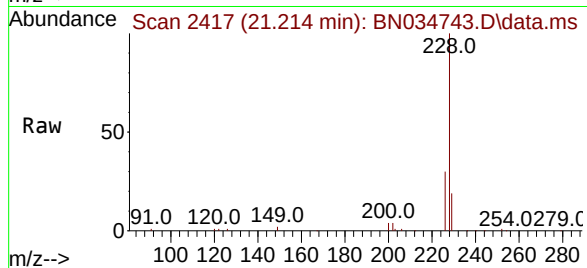
Tgt Ion:228 Resp: 58705

Ion Ratio Lower Upper

228 100

226 30.2 24.4 36.6

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.834 ng

RT: 21.125 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

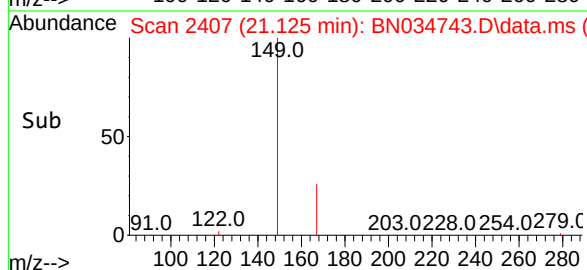
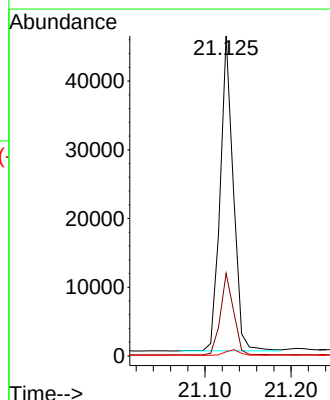
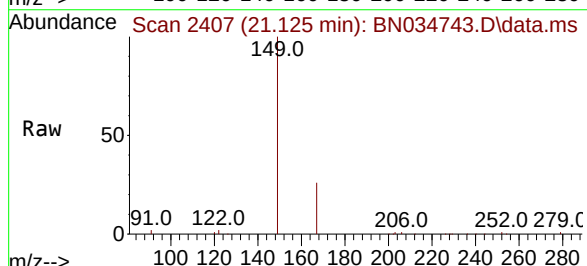
Tgt Ion:149 Resp: 48274

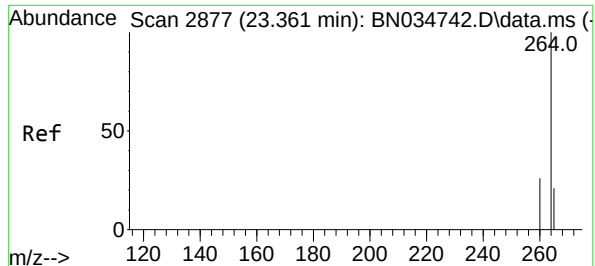
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.361 min Scan# 2877

Delta R.T. 0.000 min

Lab File: BN034743.D

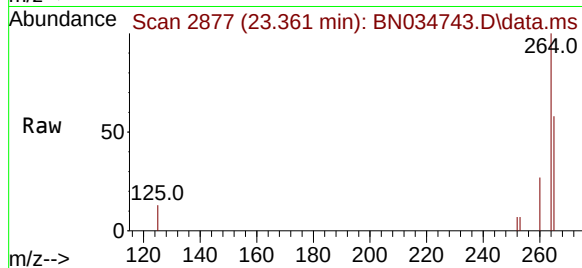
Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



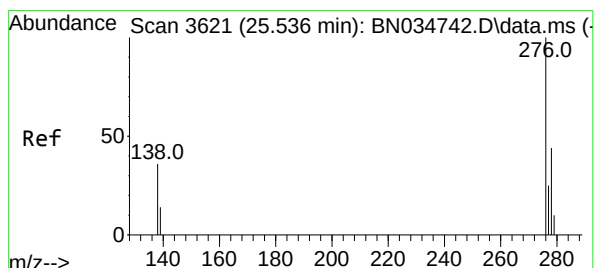
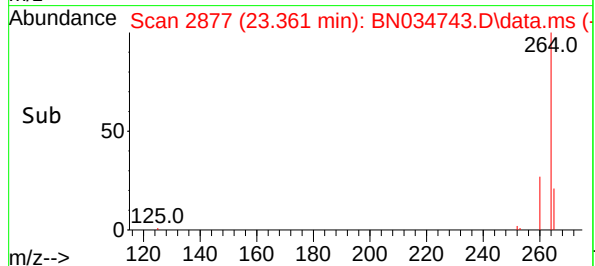
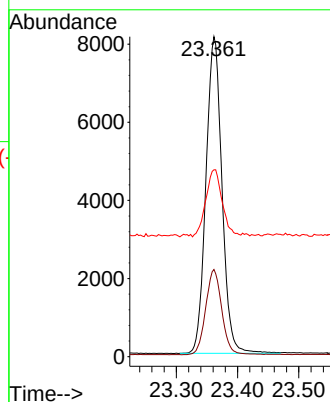
Tgt Ion:264 Resp: 14751

Ion Ratio Lower Upper

264 100

260 27.3 21.5 32.3

265 58.4 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.855 ng

RT: 25.539 min Scan# 3622

Delta R.T. 0.003 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

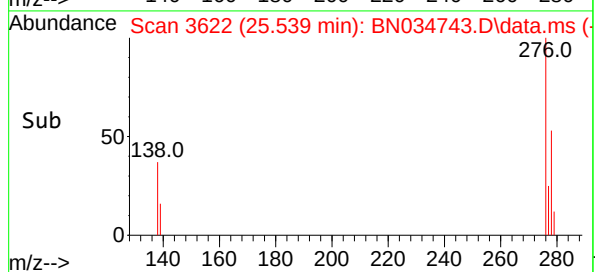
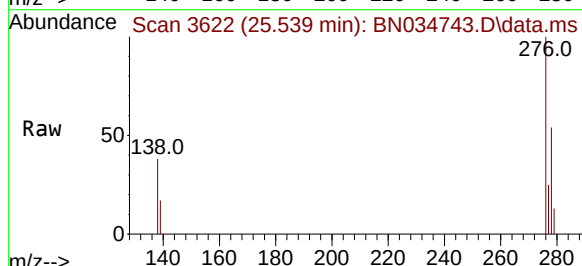
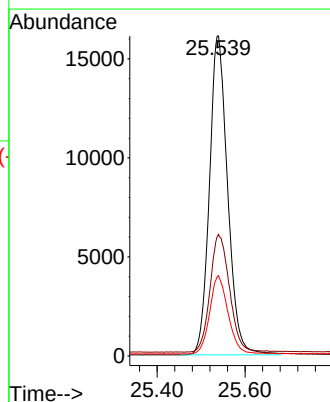
Tgt Ion:276 Resp: 46389

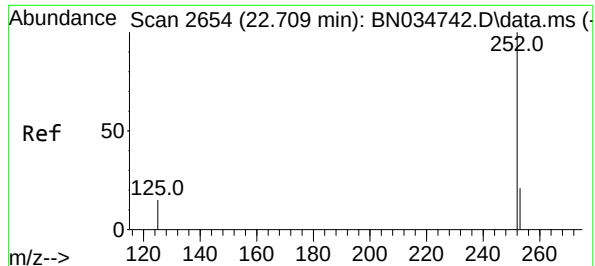
Ion Ratio Lower Upper

276 100

138 39.4 31.5 47.3

277 24.5 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.871 ng

RT: 22.709 min Scan# 2654

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

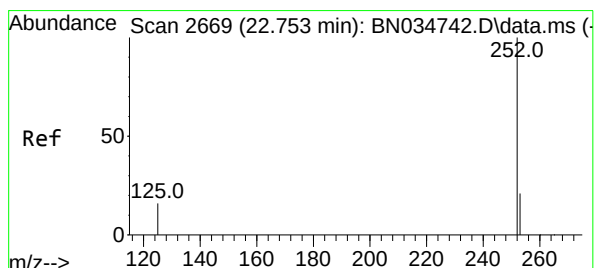
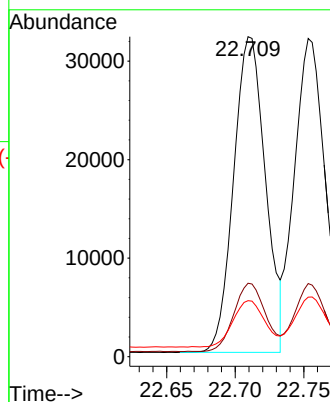
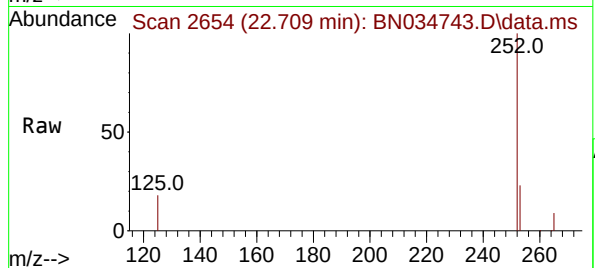
Tgt Ion:252 Resp: 51704

Ion Ratio Lower Upper

252 100

253 22.9 19.7 29.5

125 17.5 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.867 ng

RT: 22.753 min Scan# 2669

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

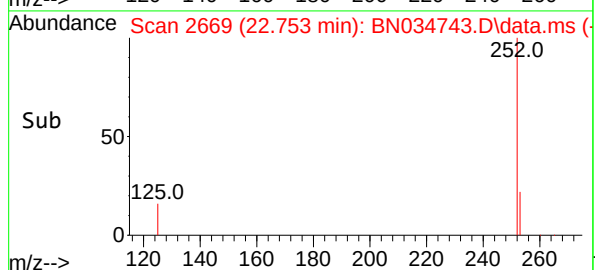
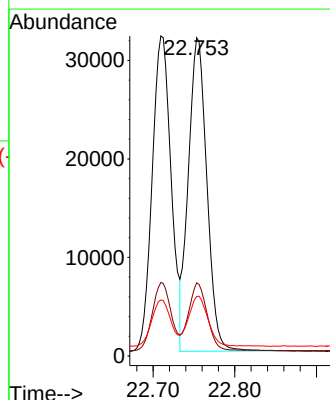
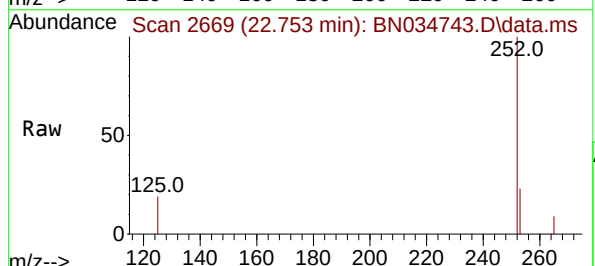
Tgt Ion:252 Resp: 50258

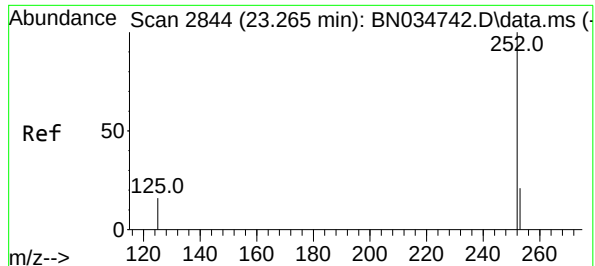
Ion Ratio Lower Upper

252 100

253 23.0 19.8 29.6

125 18.7 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.863 ng

RT: 23.265 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

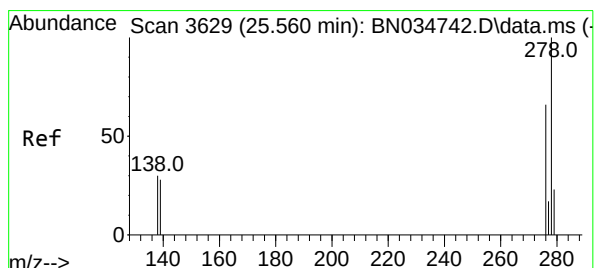
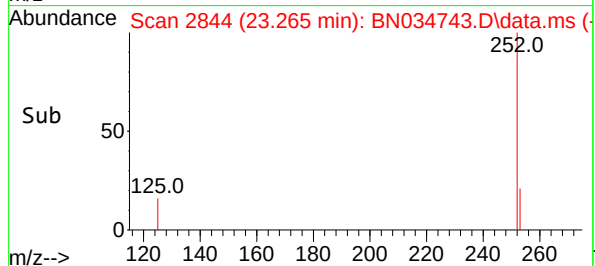
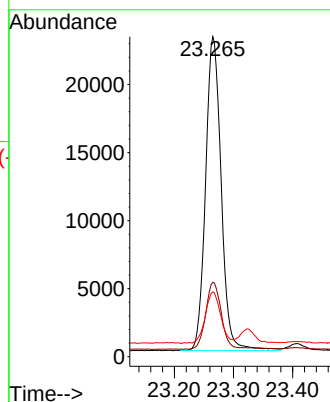
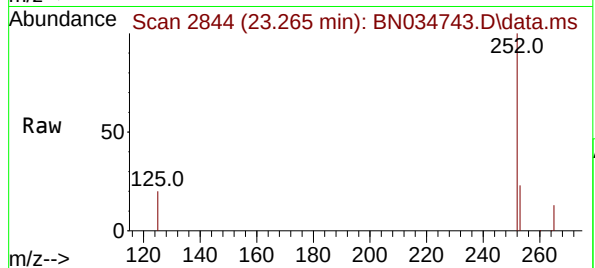
Tgt Ion:252 Resp: 42305

Ion Ratio Lower Upper

252 100

253 23.3 20.7 31.1

125 20.3 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.857 ng

RT: 25.557 min Scan# 3628

Delta R.T. -0.003 min

Lab File: BN034743.D

Acq: 30 Oct 2024 11:08

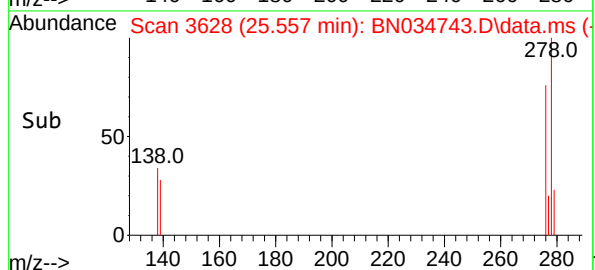
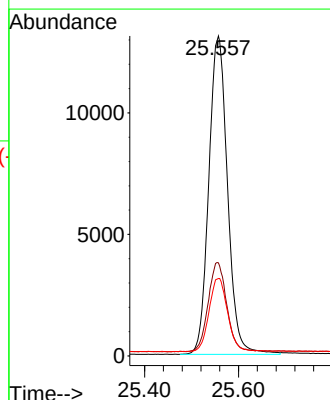
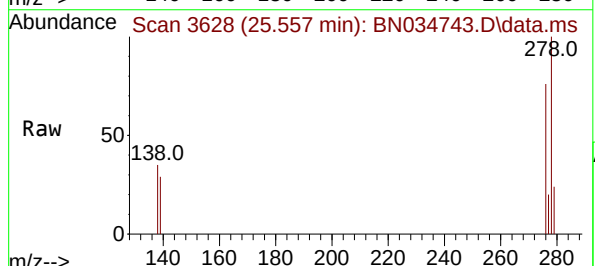
Tgt Ion:278 Resp: 36275

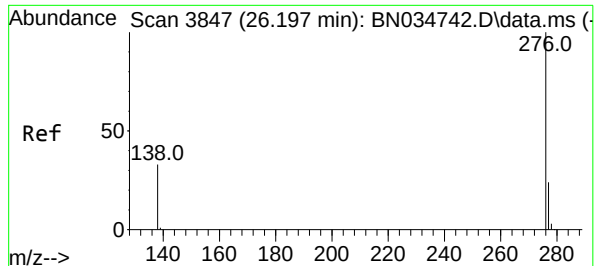
Ion Ratio Lower Upper

278 100

139 29.1 24.9 37.3

279 24.2 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.857 ng

RT: 26.194 min Scan# 3846

Delta R.T. -0.003 min

Lab File: BN034743.D

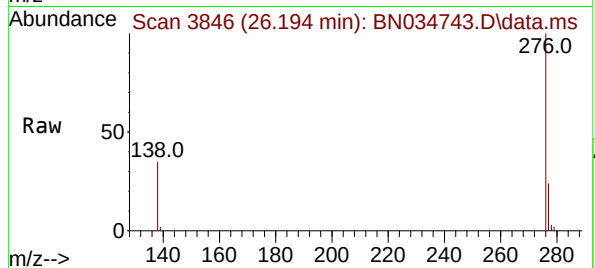
Acq: 30 Oct 2024 11:08

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



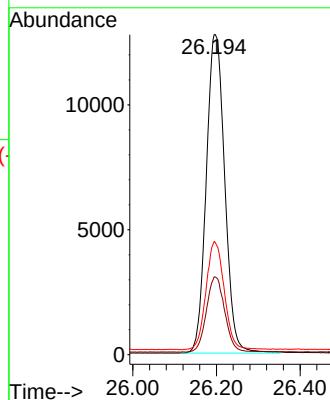
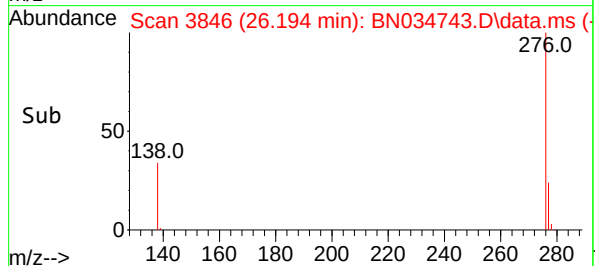
Tgt Ion:276 Resp: 39205

Ion Ratio Lower Upper

276 100

277 24.3 20.2 30.2

138 35.3 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034744.D
 Acq On : 30 Oct 2024 11:44
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Oct 30 13:33:08 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

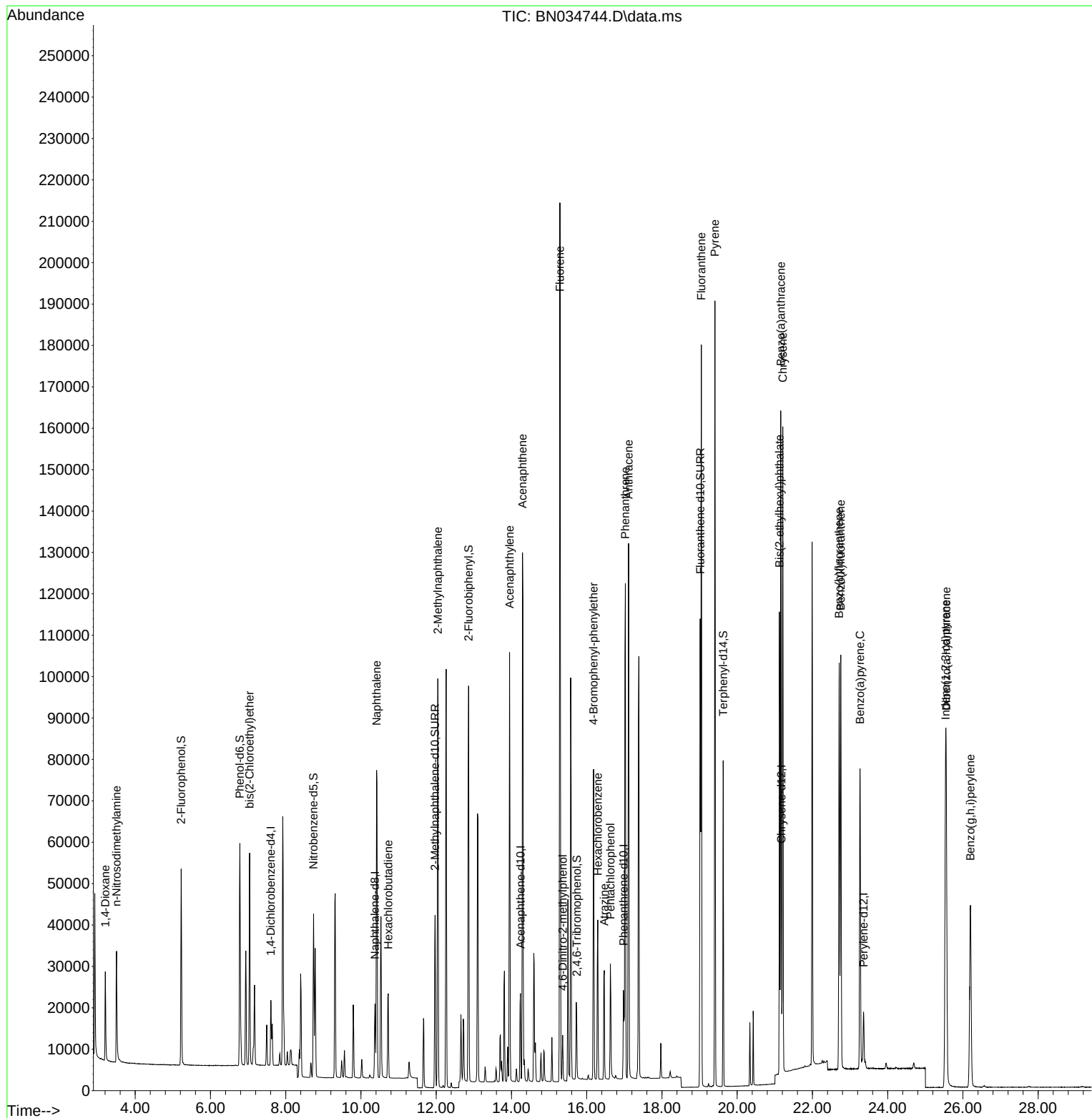
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7301	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	22084	0.400	ng	0.00
13) Acenaphthene-d10	14.240	164	12150	0.400	ng	0.00
19) Phenanthrene-d10	16.977	188	26742	0.400	ng	# 0.00
29) Chrysene-d12	21.176	240	18538	0.400	ng	# 0.00
35) Perylene-d12	23.359	264	16531	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	36440	1.648	ng	0.00
5) Phenol-d6	6.781	99	47456	1.651	ng	0.00
8) Nitrobenzene-d5	8.739	82	28992	1.671	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	54464	1.704	ng	0.00
14) 2,4,6-Tribromophenol	15.735	330	10362	1.727	ng	0.00
15) 2-Fluorobiphenyl	12.861	172	81002	1.693	ng	0.00
27) Fluoranthene-d10	19.018	212	108982	1.737	ng	0.00
31) Terphenyl-d14	19.626	244	64278	1.614	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.206	88	12799	1.599	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.502	42	15266	1.692	ng	100
6) bis(2-Chloroethyl)ether	7.041	93	35367	1.686	ng	100
9) Naphthalene	10.415	128	101868	1.668	ng	99
10) Hexachlorobutadiene	10.725	225	16779	1.668	ng	# 99
12) 2-Methylnaphthalene	12.041	142	67960	1.701	ng	100
16) Acenaphthylene	13.951	152	103814	1.703	ng	100
17) Acenaphthene	14.293	154	69971	1.723	ng	98
18) Fluorene	15.288	166	87149	1.722	ng	99
20) 4,6-Dinitro-2-methylph...	15.362	198	6901	1.527	ng	# 81
21) 4-Bromophenyl-phenylether	16.182	248	25438	1.644	ng	# 82
22) Hexachlorobenzene	16.294	284	28587	1.650	ng	99
23) Atrazine	16.468	200	22913	1.720	ng	# 91
24) Pentachlorophenol	16.629	266	13014	1.745	ng	98
25) Phenanthrene	17.026	178	131847	1.676	ng	100
26) Anthracene	17.113	178	125946	1.711	ng	100
28) Fluoranthene	19.045	202	151422	1.747	ng	100
30) Pyrene	19.408	202	155057	1.600	ng	100
32) Benzo(a)anthracene	21.158	228	124466	1.687	ng	99
33) Chrysene	21.212	228	121891	1.687	ng	100
34) Bis(2-ethylhexyl)phtha...	21.122	149	98800	1.601	ng	100
36) Indeno(1,2,3-cd)pyrene	25.537	276	98007	1.612	ng	99
37) Benzo(b)fluoranthene	22.710	252	114384	1.719	ng	# 92
38) Benzo(k)fluoranthene	22.754	252	109313	1.683	ng	# 91
39) Benzo(a)pyrene	23.265	252	92846	1.691	ng	# 89
40) Dibenzo(a,h)anthracene	25.555	278	76192	1.607	ng	94
41) Benzo(g,h,i)perylene	26.198	276	80842	1.577	ng	96

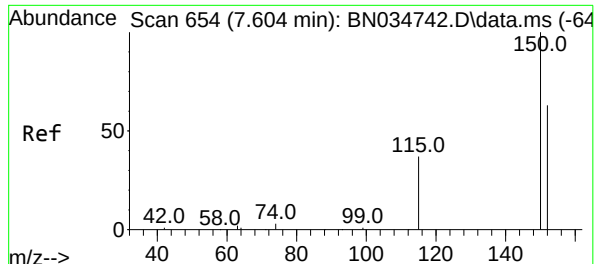
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034744.D
Acq On : 30 Oct 2024 11:44
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Oct 30 13:33:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

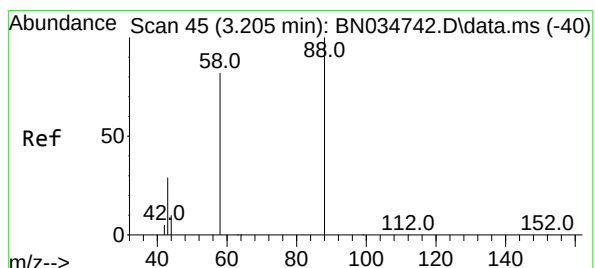
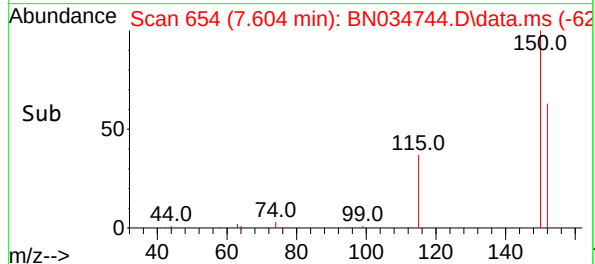
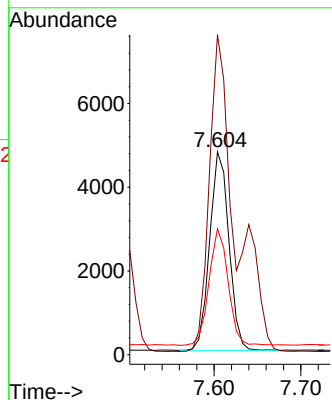
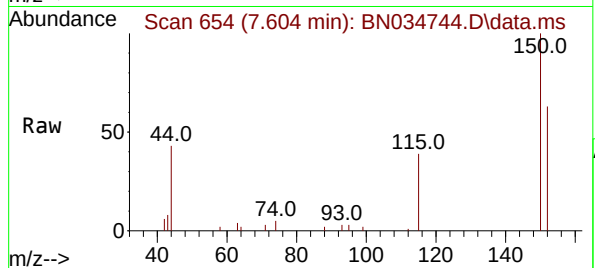




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

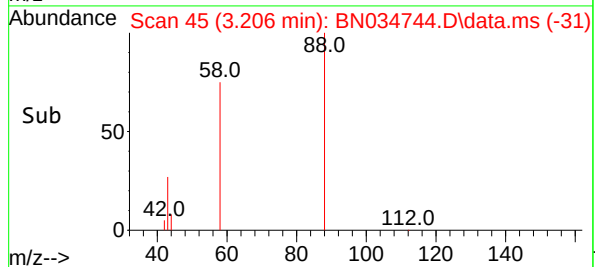
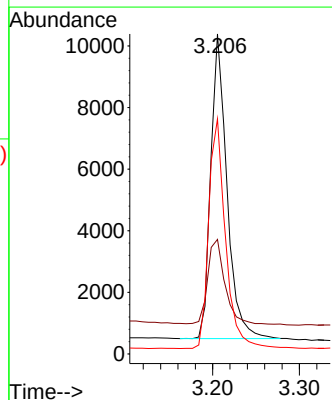
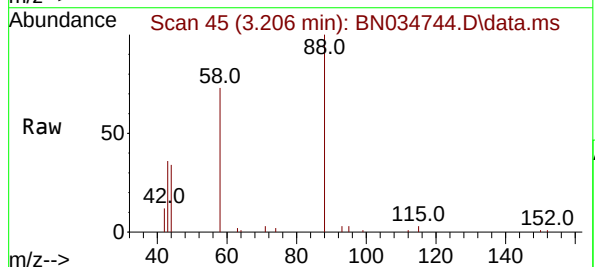
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

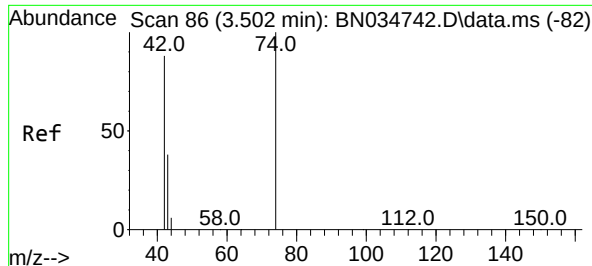
Tgt Ion:152 Resp: 7301
Ion Ratio Lower Upper
152 100
150 157.7 124.9 187.3
115 62.1 50.2 75.2



#2
1,4-Dioxane
Concen: 1.599 ng
RT: 3.206 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion: 88 Resp: 12799
Ion Ratio Lower Upper
88 100
43 29.6 26.7 40.1
58 78.4 59.3 88.9

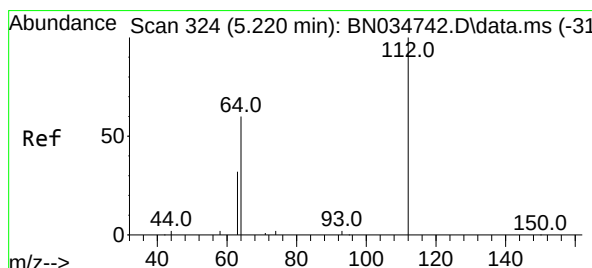
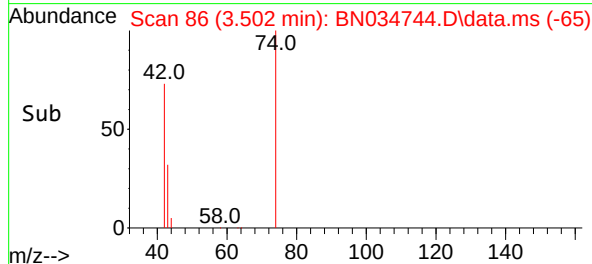
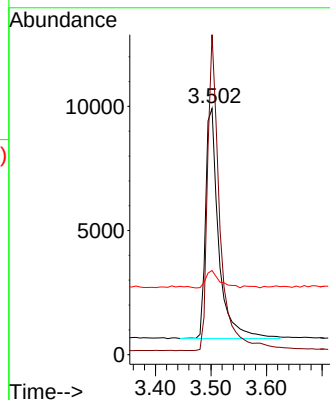
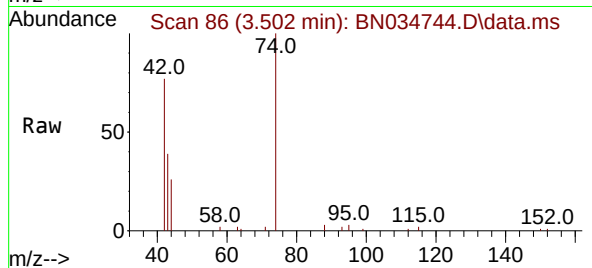




#3
n-Nitrosodimethylamine
Concen: 1.692 ng
RT: 3.502 min Scan# 86
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

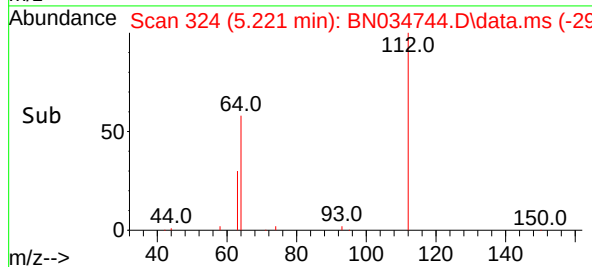
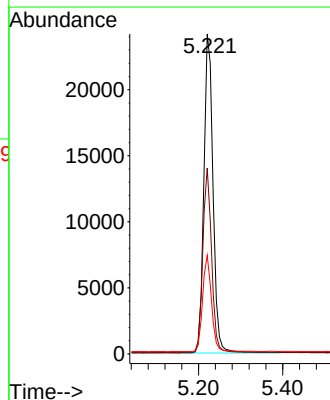
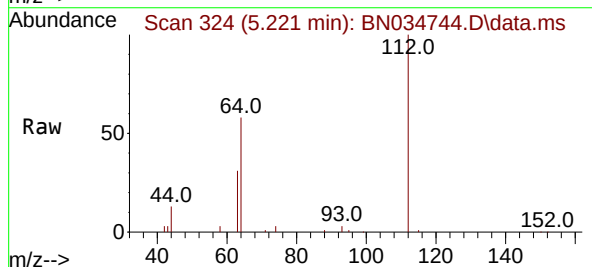
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

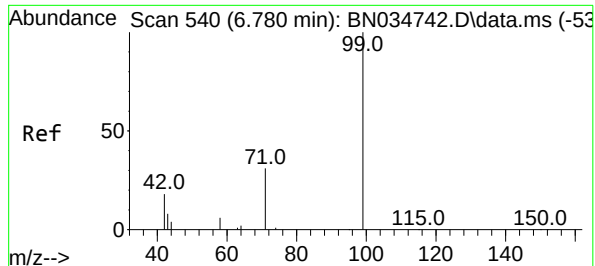
Tgt Ion: 42 Resp: 15266
Ion Ratio Lower Upper
42 100
74 128.5 103.1 154.7
44 7.8 6.7 10.1



#4
2-Fluorophenol
Concen: 1.648 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion: 112 Resp: 36440
Ion Ratio Lower Upper
112 100
64 56.0 44.9 67.3
63 29.4 23.5 35.3

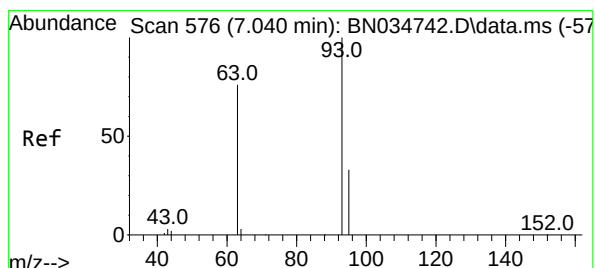
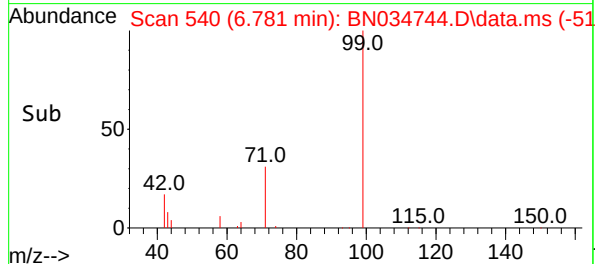
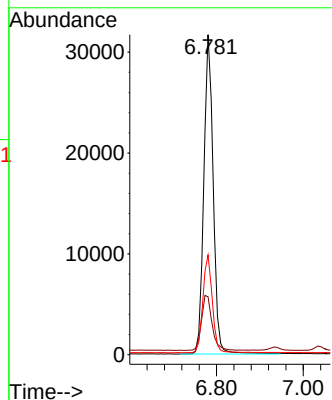
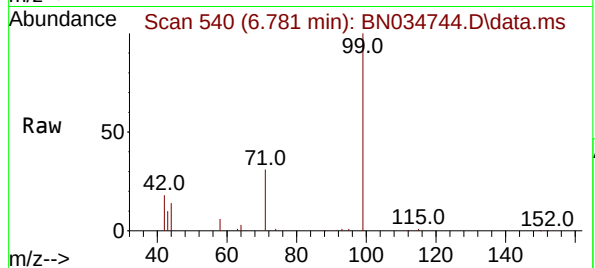




#5
Phenol-d6
Concen: 1.651 ng
RT: 6.781 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

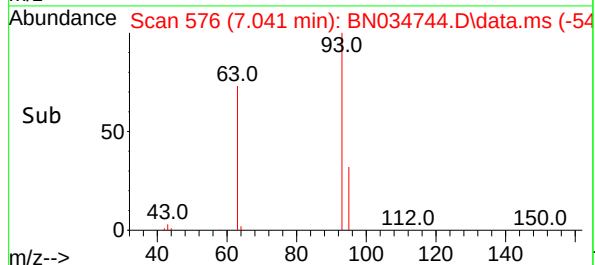
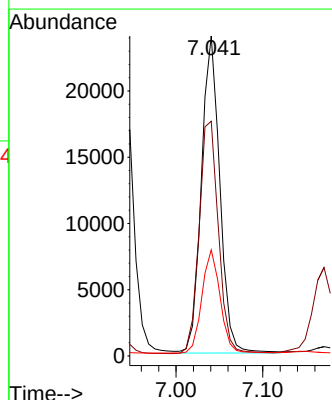
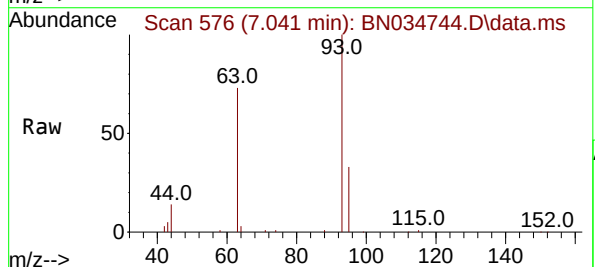
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

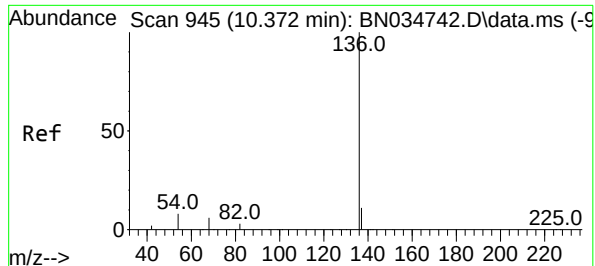
Tgt Ion: 99 Resp: 47456
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 30.7 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 1.686 ng
RT: 7.041 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion: 93 Resp: 35367
Ion Ratio Lower Upper
93 100
63 77.1 61.2 91.8
95 32.3 25.8 38.8

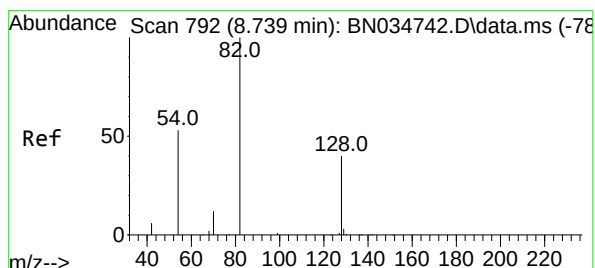
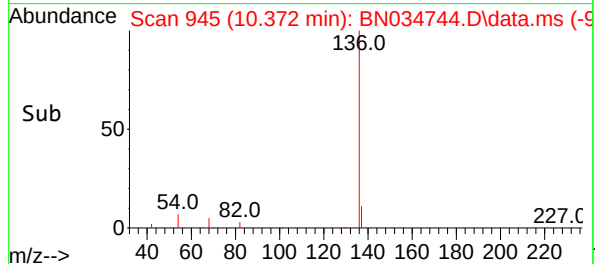
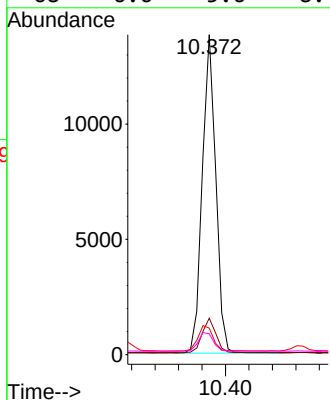
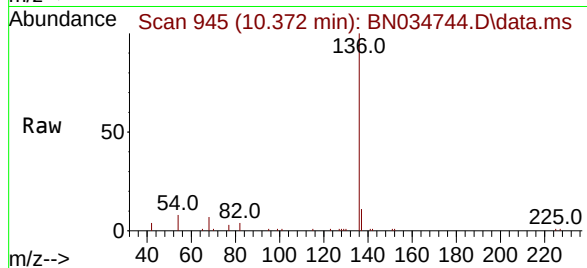




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

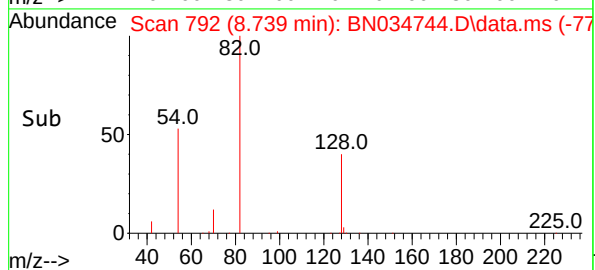
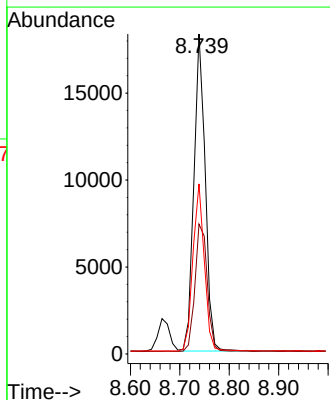
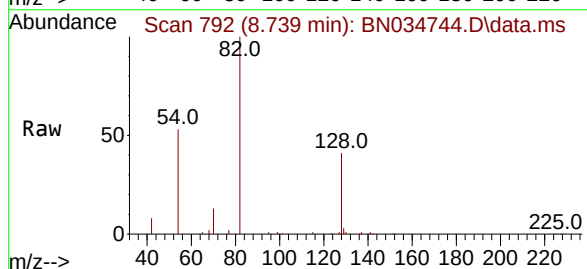
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

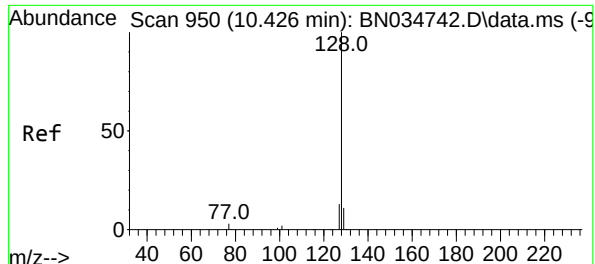
Tgt Ion:	136	Resp:	22084
Ion Ratio	Lower	Upper	
136	100		
137	11.4	9.2	13.8
54	8.3	7.0	10.4
68	6.6	5.6	8.4



#8
Nitrobenzene-d5
Concen: 1.671 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:	82	Resp:	28992
Ion Ratio	Lower	Upper	
82	100		
128	40.6	33.7	50.5
54	53.1	44.4	66.6

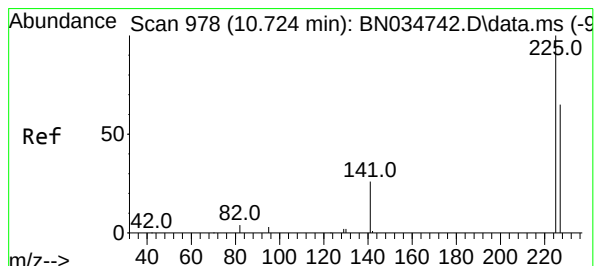
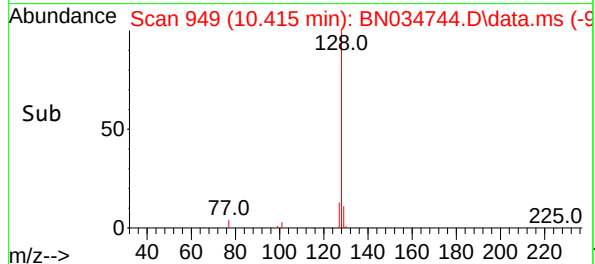
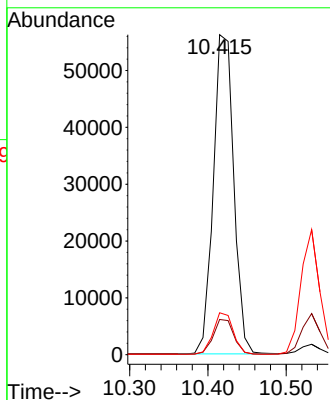
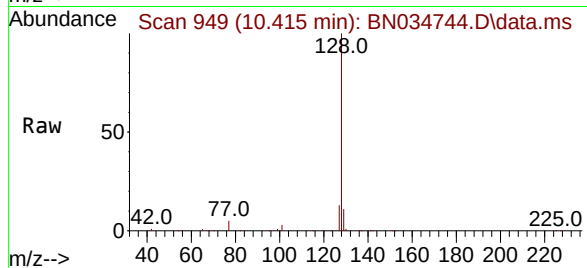




#9
Naphthalene
Concen: 1.668 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

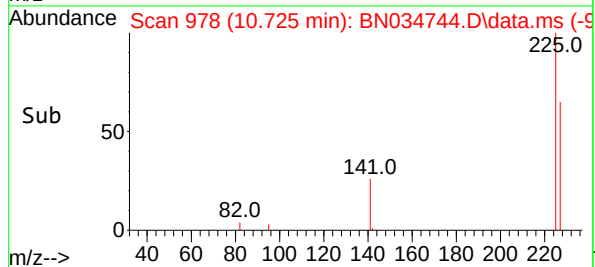
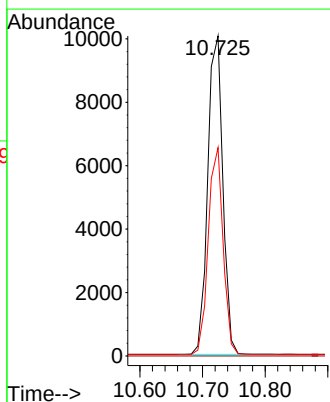
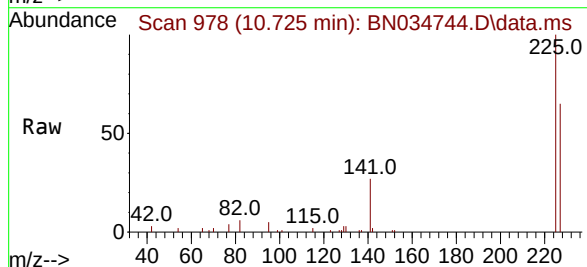
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

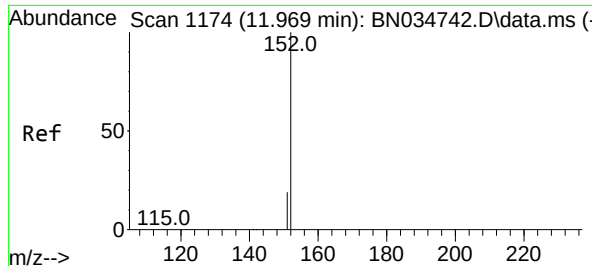
Tgt Ion:128 Resp: 101868
Ion Ratio Lower Upper
128 100
129 11.0 9.4 14.0
127 13.1 10.6 15.8



#10
Hexachlorobutadiene
Concen: 1.668 ng
RT: 10.725 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:225 Resp: 16779
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2

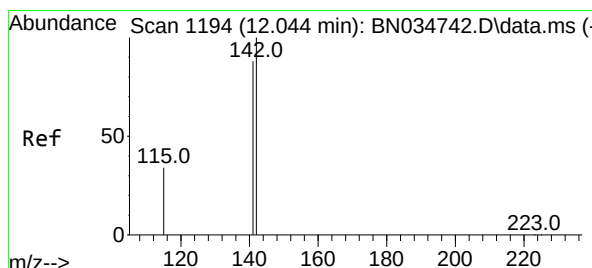
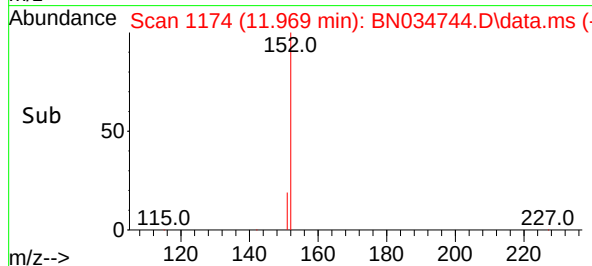
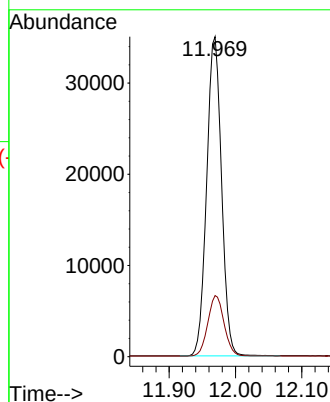
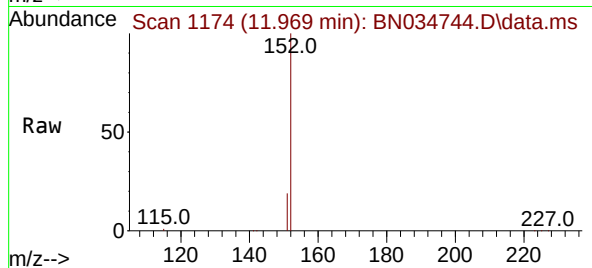




#11
2-Methylnaphthalene-d10
Concen: 1.704 ng
RT: 11.969 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

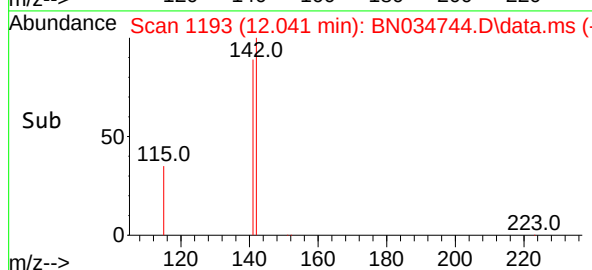
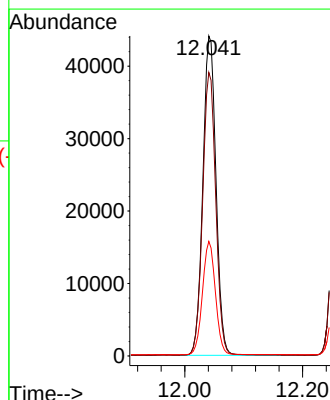
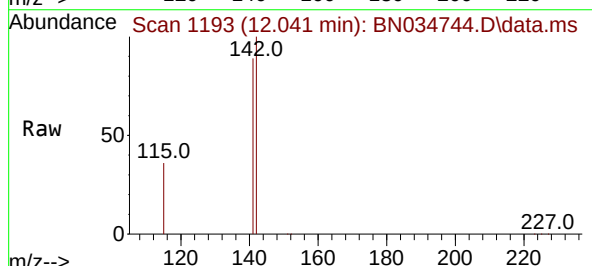
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

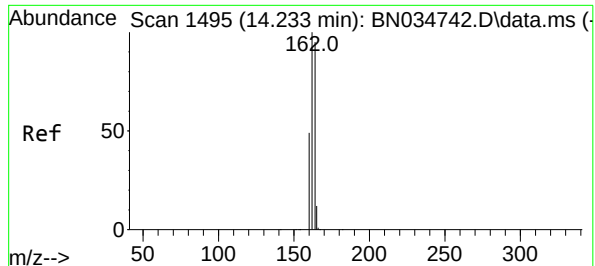
Tgt Ion:152 Resp: 54464
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 1.701 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:142 Resp: 67960
Ion Ratio Lower Upper
142 100
141 88.6 70.6 106.0
115 35.8 28.6 42.8

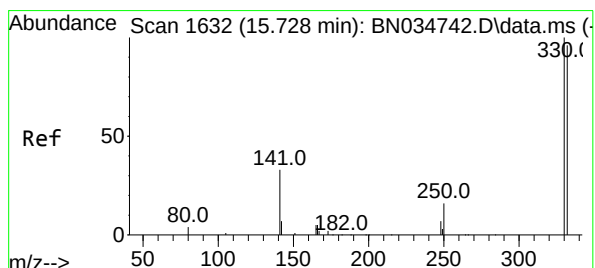
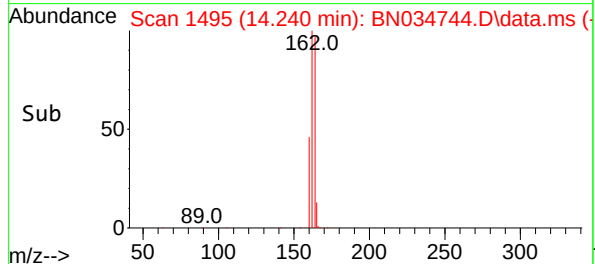
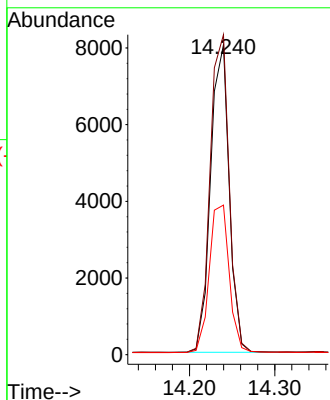
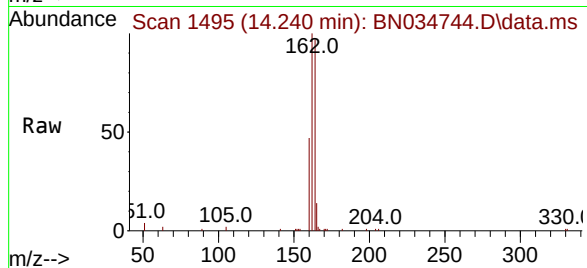




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.240 min Scan# 1495
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

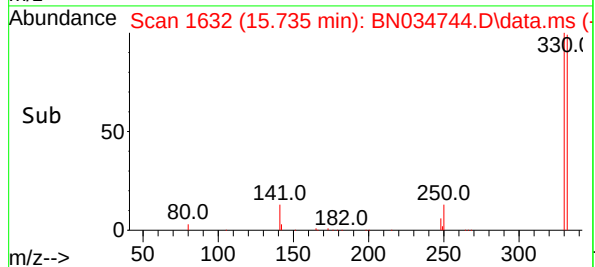
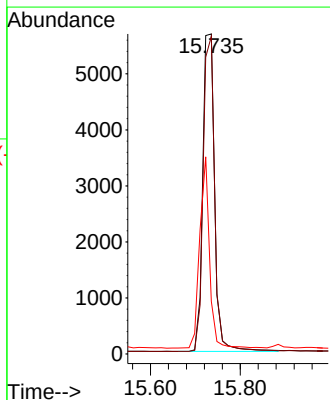
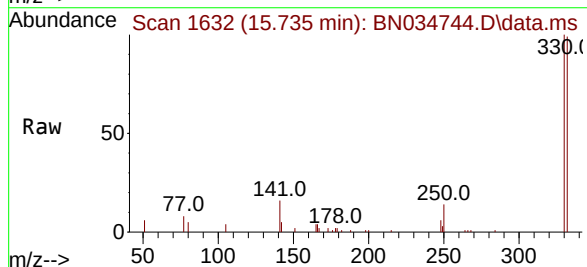
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

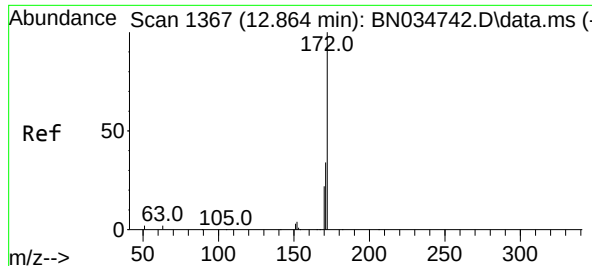
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.3	84.3	126.5
160	48.3	41.7	62.5



#14
2,4,6-Tribromophenol
Concen: 1.727 ng
RT: 15.735 min Scan# 1632
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.8	116.6
141	49.9	41.0	61.4

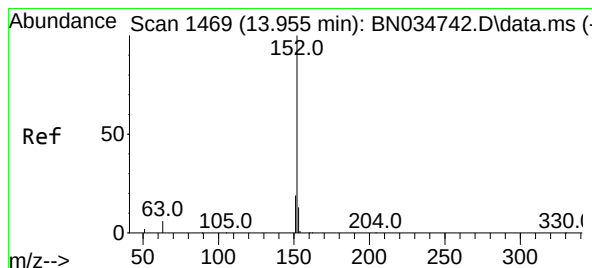
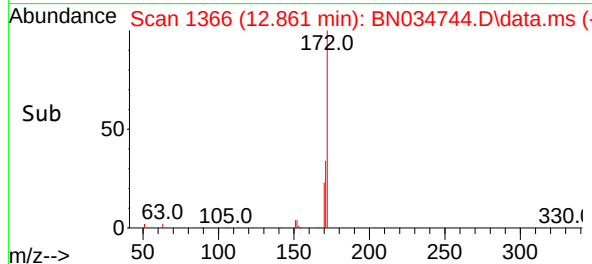
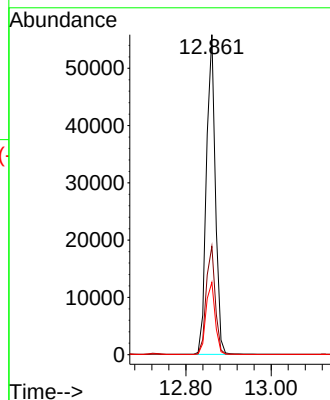
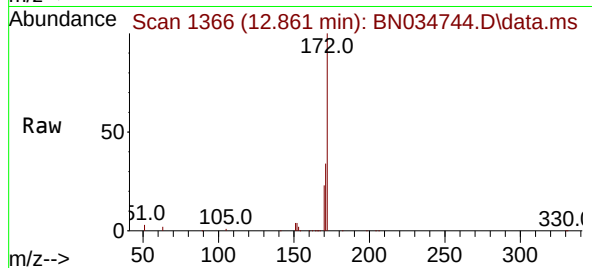




#15
2-Fluorobiphenyl
Concen: 1.693 ng
RT: 12.861 min Scan# 1367
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

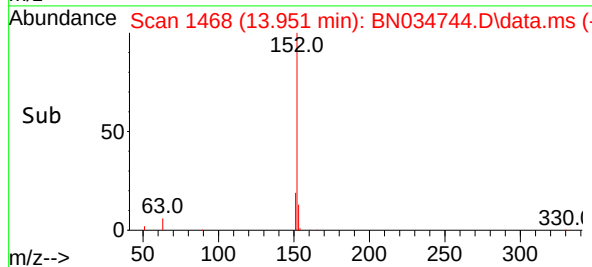
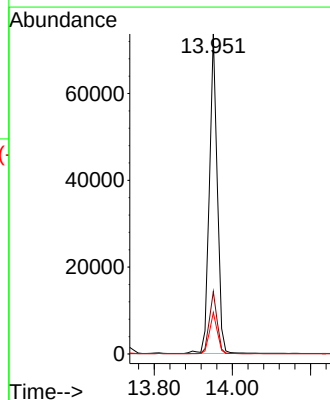
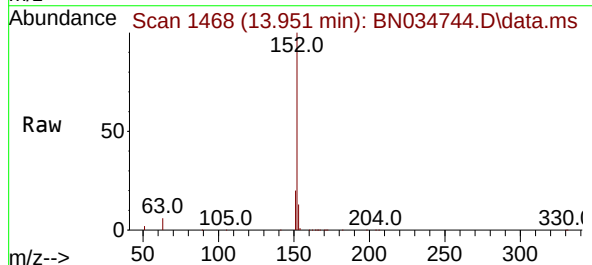
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

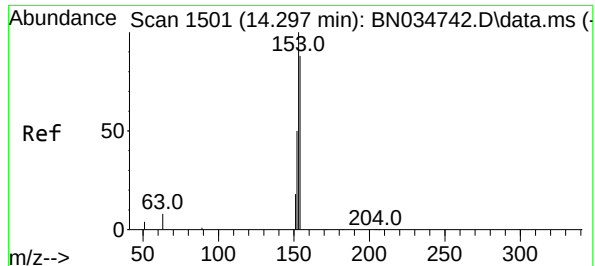
Tgt Ion:172 Resp: 81002
Ion Ratio Lower Upper
172 100
171 33.8 27.2 40.8
170 22.6 18.0 27.0



#16
Acenaphthylene
Concen: 1.703 ng
RT: 13.951 min Scan# 1468
Delta R.T. -0.004 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:152 Resp: 103814
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.2
153 12.9 10.2 15.4





#17

Acenaphthene

Concen: 1.723 ng

RT: 14.293 min Scan# 1500

Delta R.T. -0.004 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

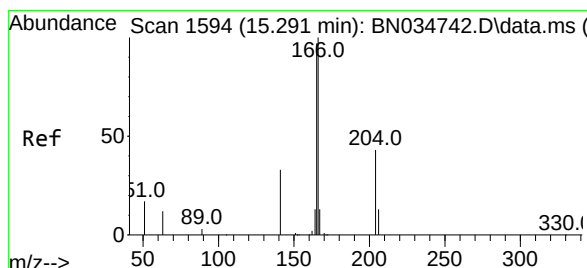
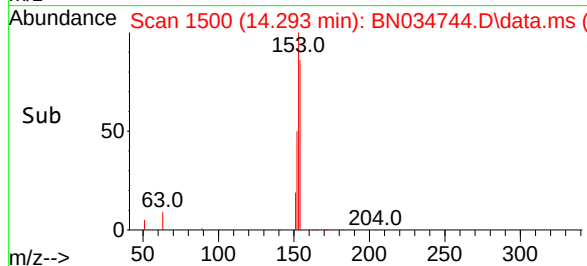
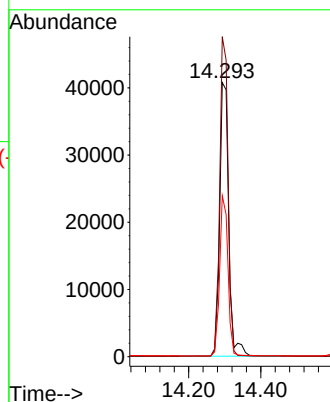
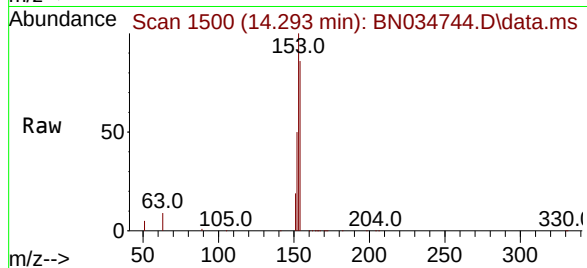
Tgt Ion:154 Resp: 69971

Ion Ratio Lower Upper

154 100

153 108.7 87.8 131.6

152 53.9 44.6 67.0



#18

Fluorene

Concen: 1.722 ng

RT: 15.288 min Scan# 1593

Delta R.T. -0.004 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

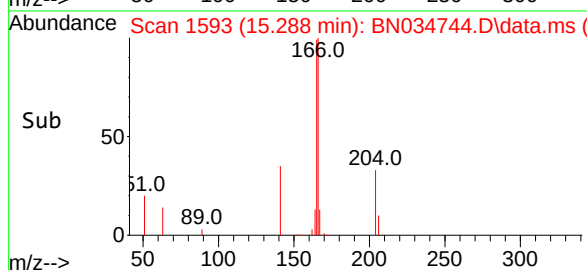
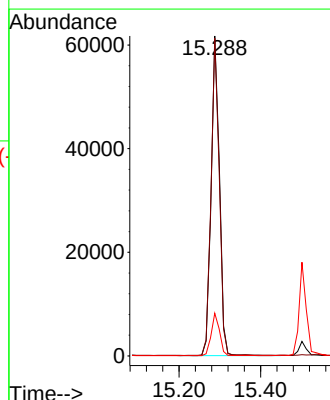
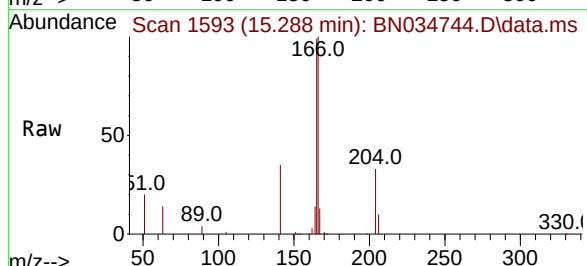
Tgt Ion:166 Resp: 87149

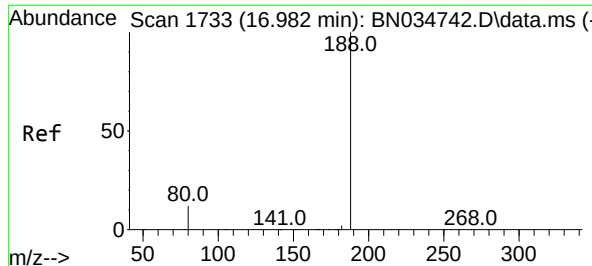
Ion Ratio Lower Upper

166 100

165 98.6 78.5 117.7

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.977 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

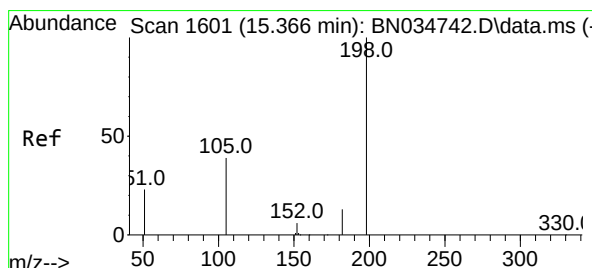
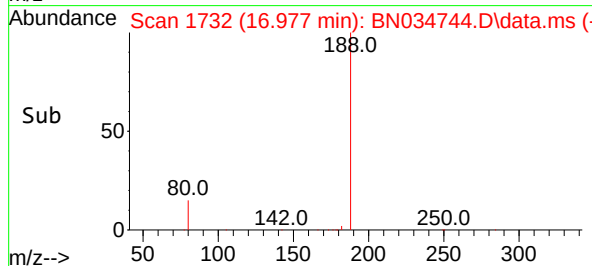
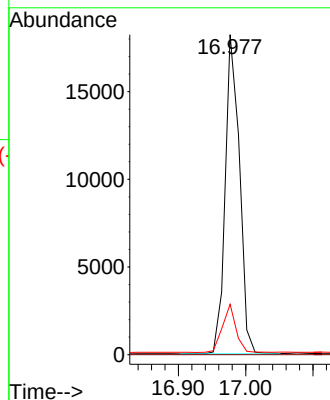
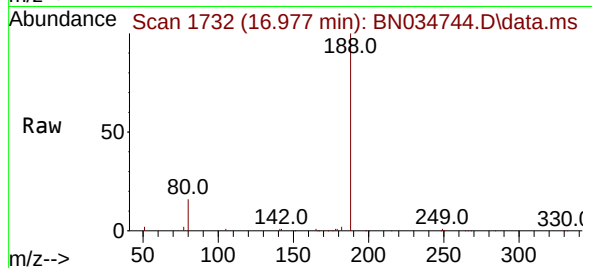
Tgt Ion:188 Resp: 26742

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 9.8 14.6#



#20

4,6-Dinitro-2-methylphenol

Concen: 1.527 ng

RT: 15.362 min Scan# 1600

Delta R.T. -0.004 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

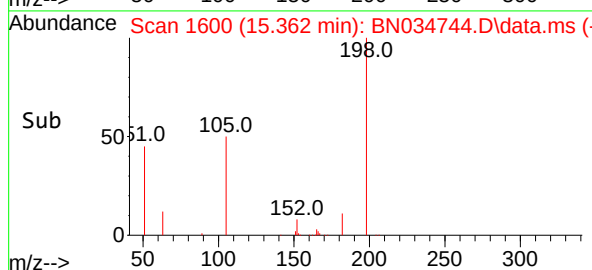
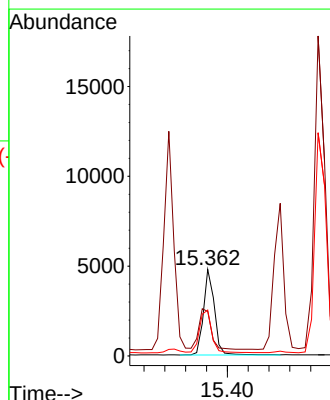
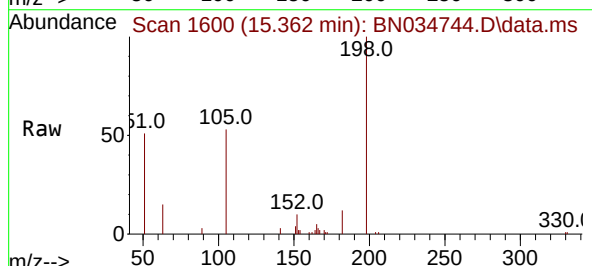
Tgt Ion:198 Resp: 6901

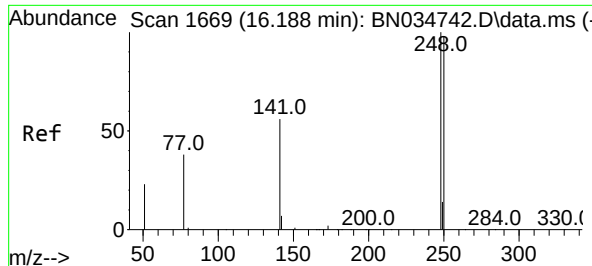
Ion Ratio Lower Upper

198 100

51 51.5 58.0 87.0#

105 53.0 49.1 73.7

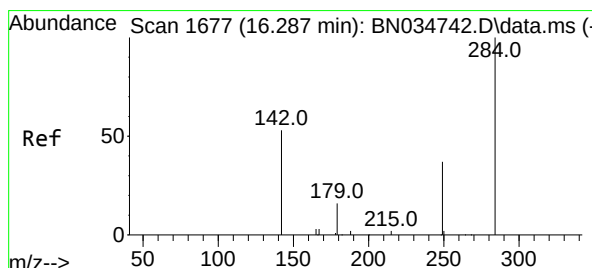
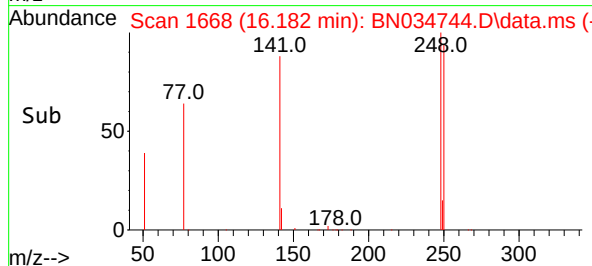
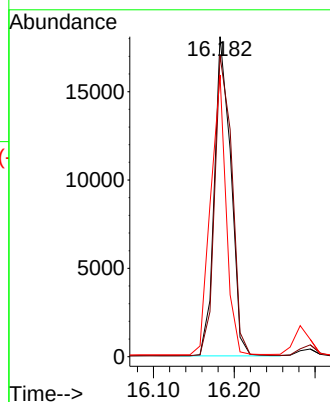
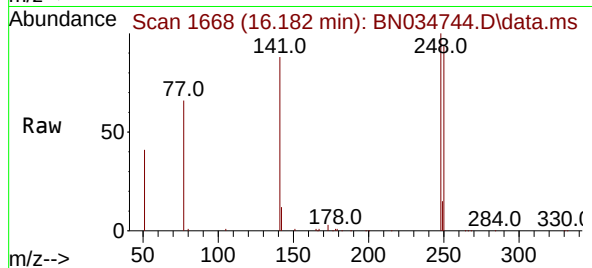




#21
4-Bromophenyl-phenylether
Concen: 1.644 ng
RT: 16.182 min Scan# 1668
Delta R.T. -0.005 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

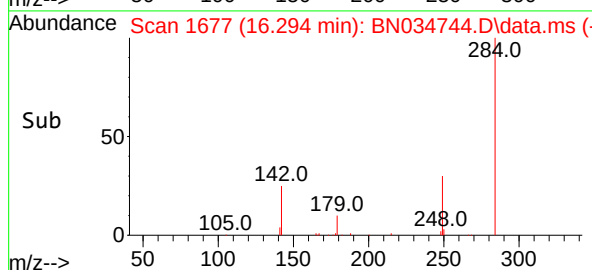
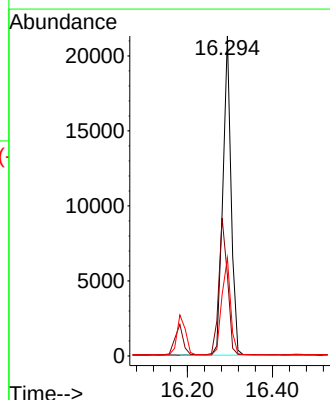
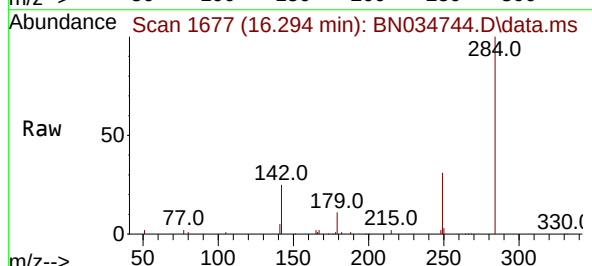
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

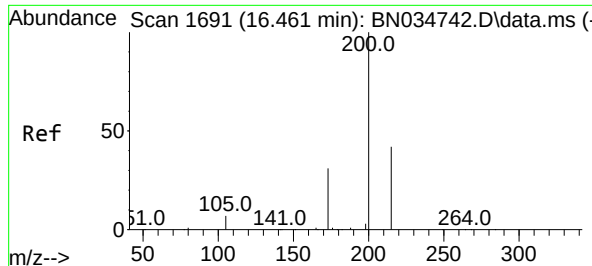
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	78.7	118.1
141	88.1	46.4	69.6#



#22
Hexachlorobenzene
Concen: 1.650 ng
RT: 16.294 min Scan# 1677
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion	Ratio	Lower	Upper
284	100		
142	44.8	35.4	53.0
249	32.2	25.7	38.5

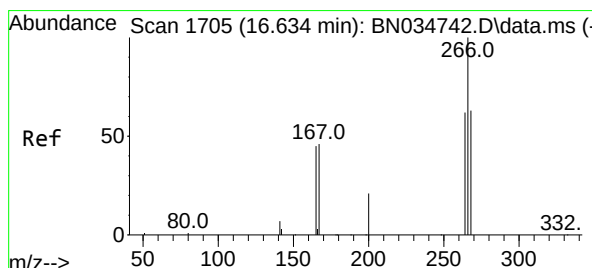
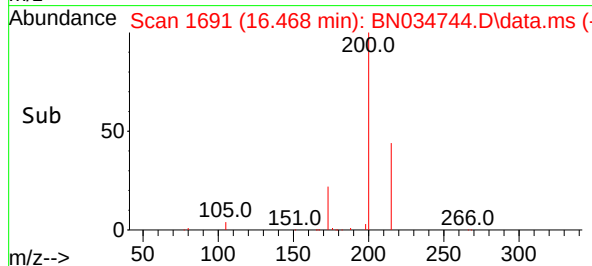
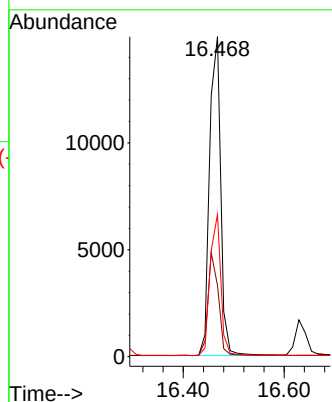
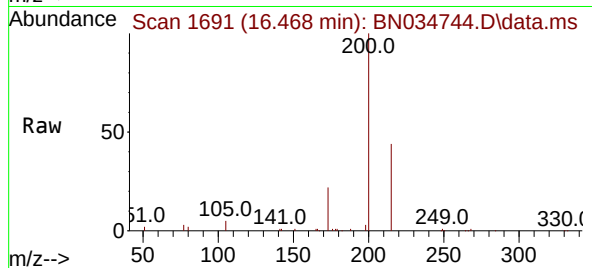




#23
Atrazine
Concen: 1.720 ng
RT: 16.468 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

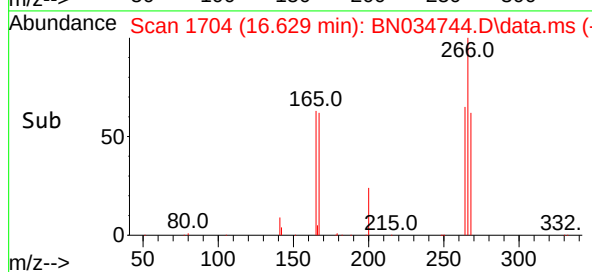
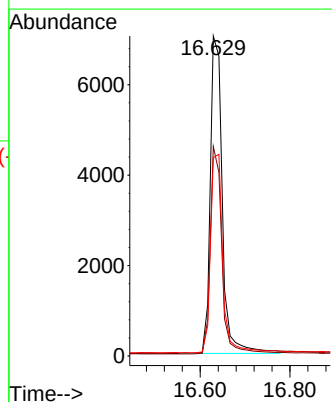
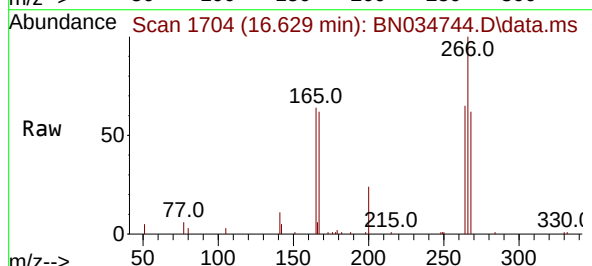
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

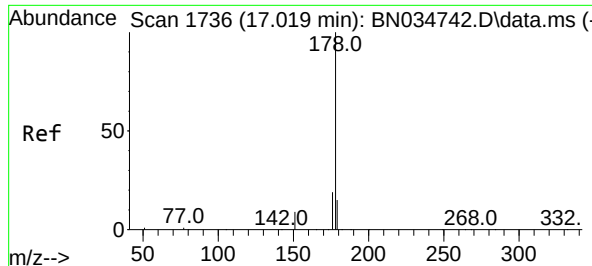
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.3	25.8	38.6
215	44.4	34.2	51.4



#24
Pentachlorophenol
Concen: 1.745 ng
RT: 16.629 min Scan# 1704
Delta R.T. -0.005 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	48.7	73.1
268	63.8	50.2	75.4

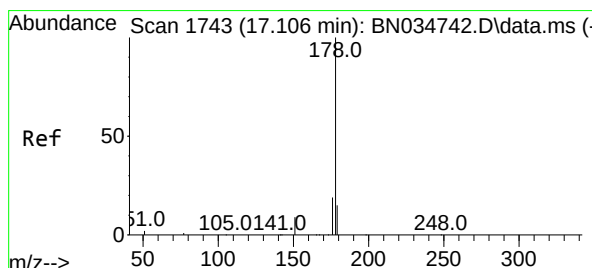
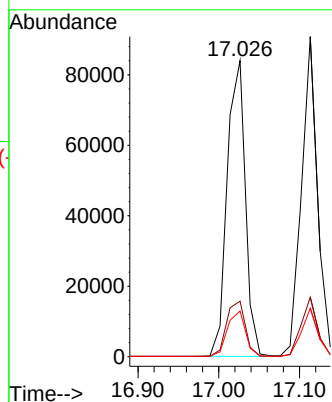
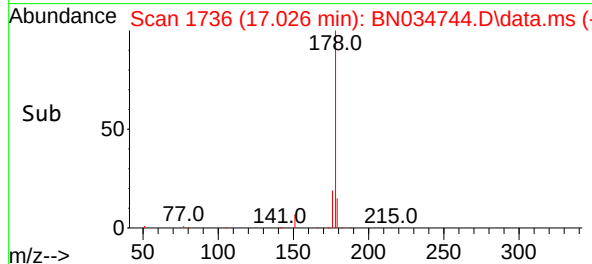
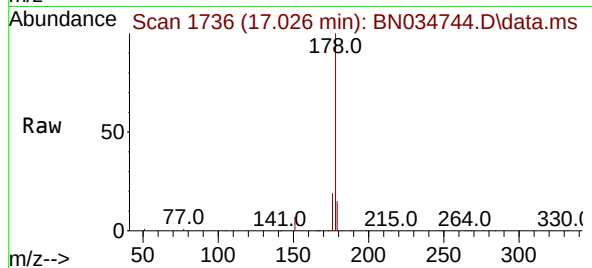




#25
Phenanthrene
Concen: 1.676 ng
RT: 17.026 min Scan# 1736
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

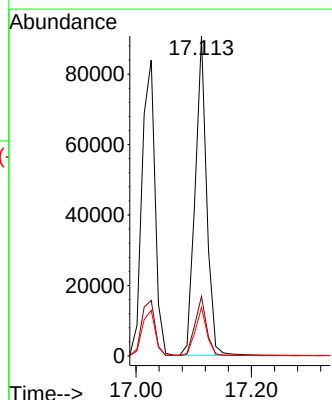
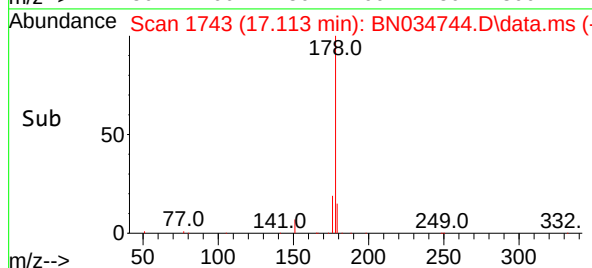
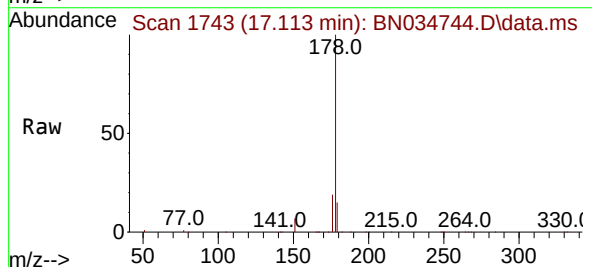
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

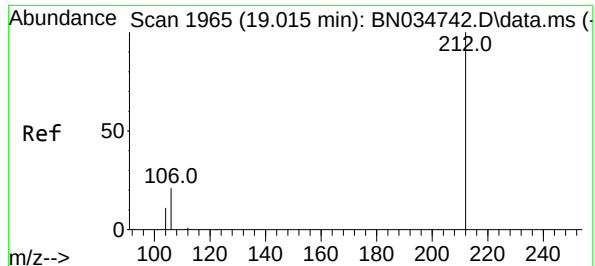
Tgt Ion:178 Resp: 131847
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 1.711 ng
RT: 17.113 min Scan# 1743
Delta R.T. 0.007 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:178 Resp: 125946
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 1.737 ng

RT: 19.018 min Scan# 1965

Delta R.T. 0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

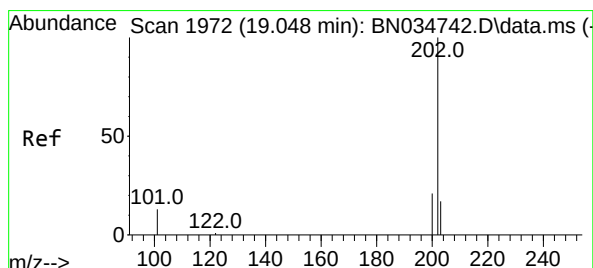
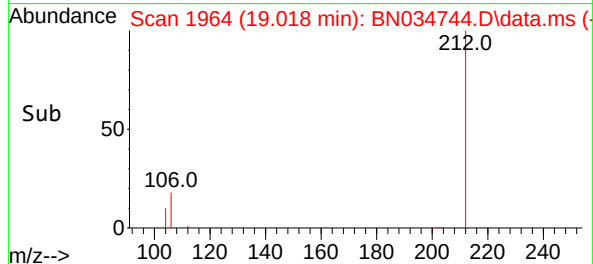
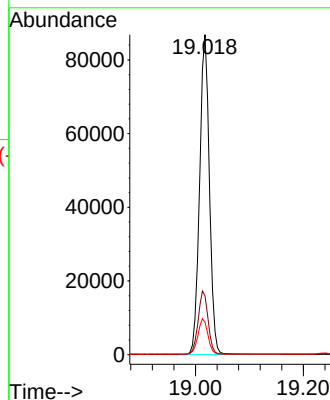
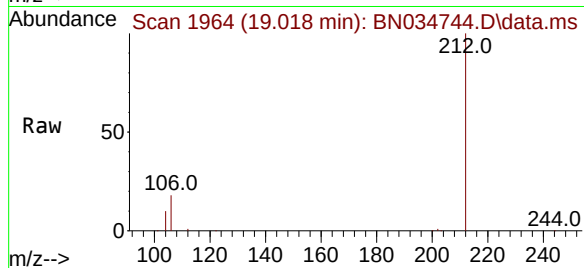
Tgt Ion:212 Resp: 108982

Ion Ratio Lower Upper

212 100

106 20.0 16.1 24.1

104 11.2 9.2 13.8



#28

Fluoranthene

Concen: 1.747 ng

RT: 19.045 min Scan# 1970

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

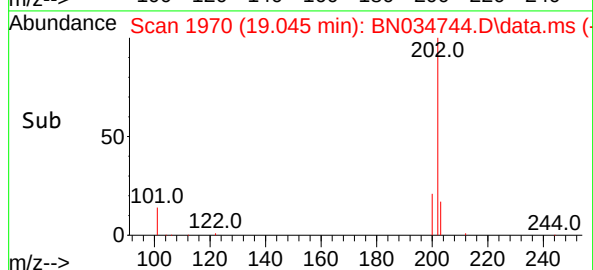
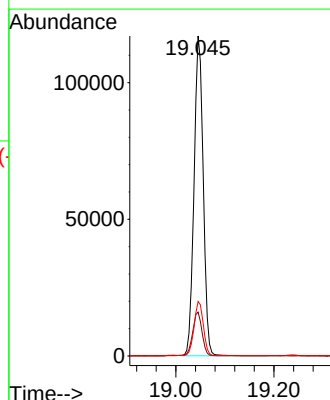
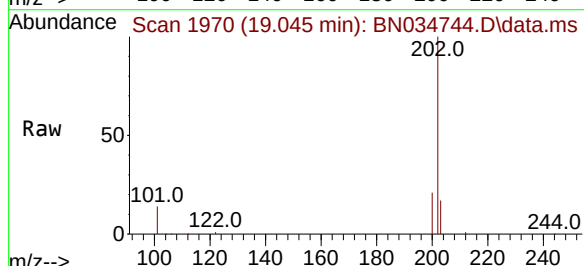
Tgt Ion:202 Resp: 151422

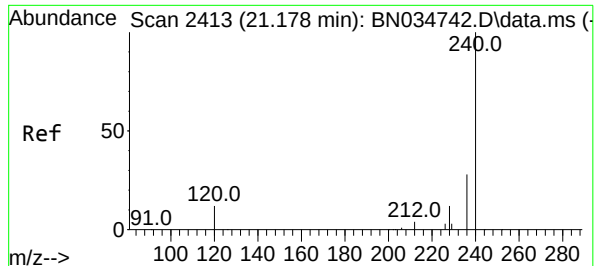
Ion Ratio Lower Upper

202 100

101 13.9 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

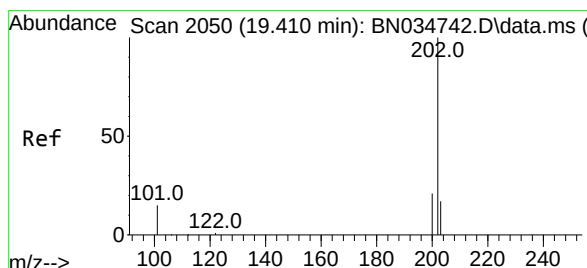
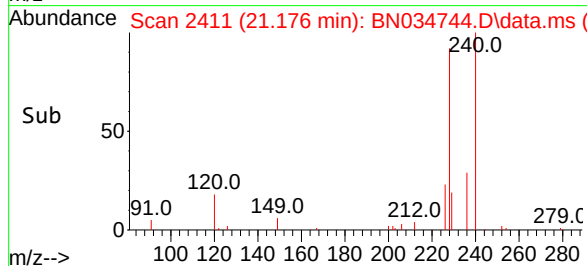
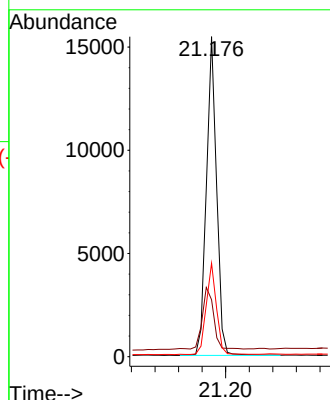
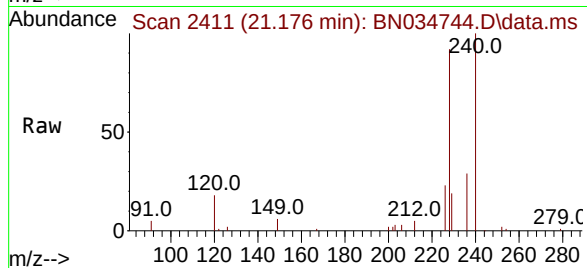
Tgt Ion:240 Resp: 18538

Ion Ratio Lower Upper

240 100

120 17.8 11.5 17.3#

236 29.2 23.2 34.8



#30

Pyrene

Concen: 1.600 ng

RT: 19.408 min Scan# 2048

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

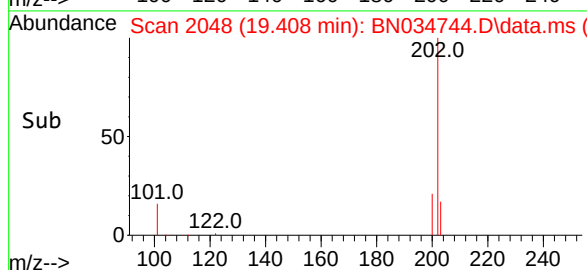
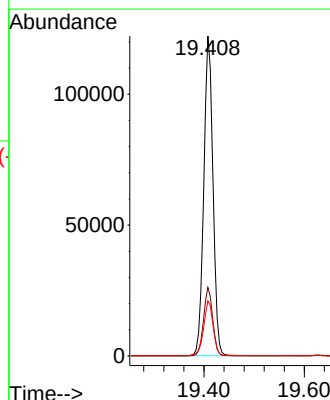
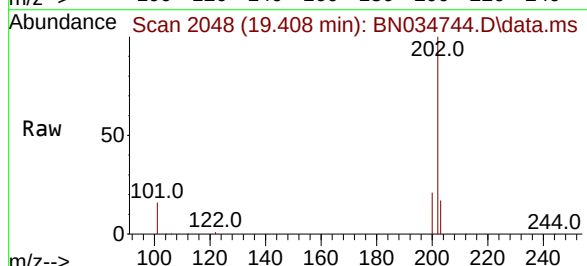
Tgt Ion:202 Resp: 155057

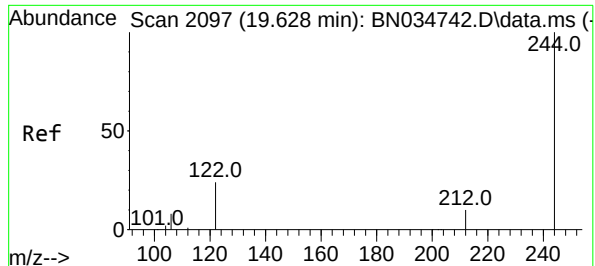
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.2 21.2

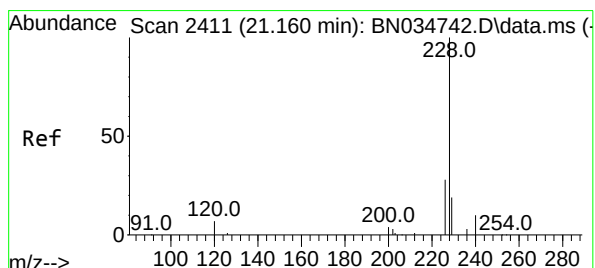
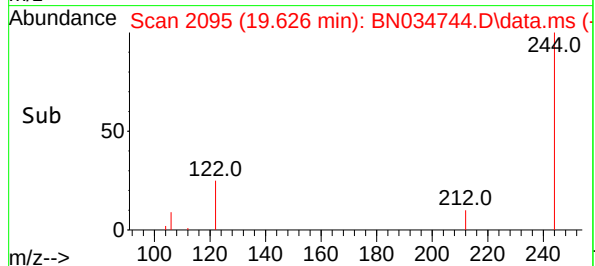
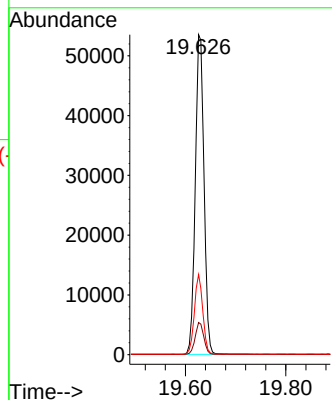
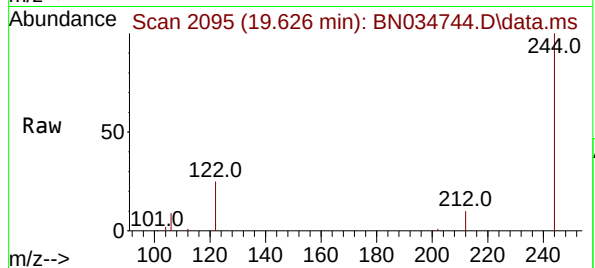




#31
Terphenyl-d14
Concen: 1.614 ng
RT: 19.626 min Scan# 2095
Delta R.T. -0.002 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

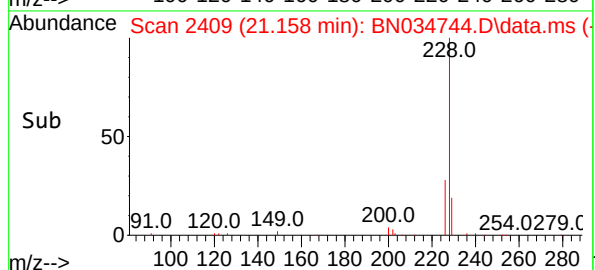
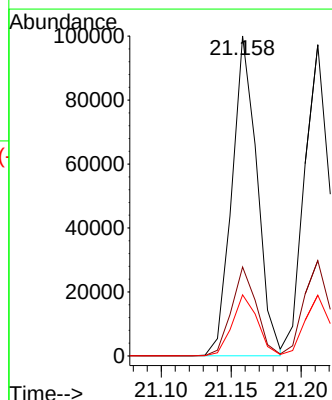
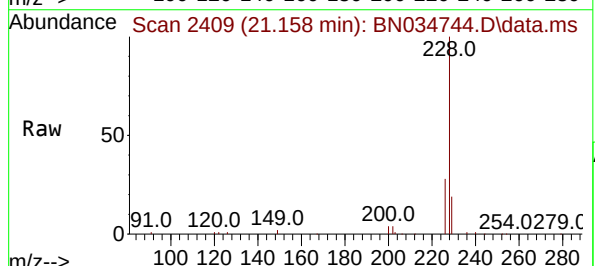
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

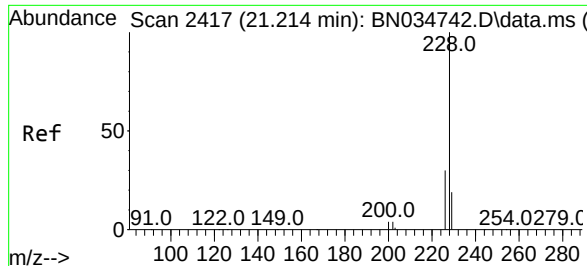
Tgt Ion:244 Resp: 64278
Ion Ratio Lower Upper
244 100
212 10.0 8.2 12.4
122 25.0 19.8 29.6



#32
Benzo(a)anthracene
Concen: 1.687 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.002 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:228 Resp: 124466
Ion Ratio Lower Upper
228 100
226 27.8 22.6 33.8
229 19.1 15.7 23.5





#33

Chrysene

Concen: 1.687 ng

RT: 21.212 min Scan# 2417

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

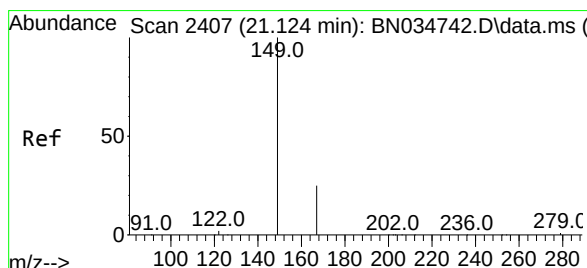
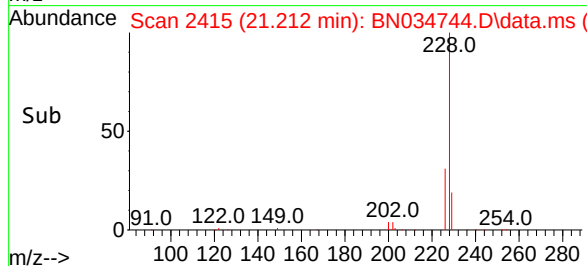
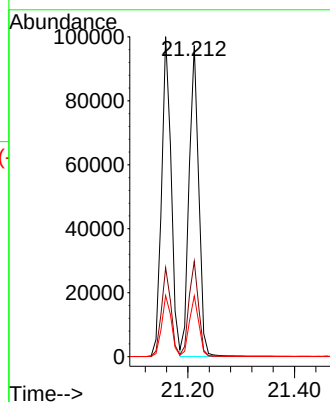
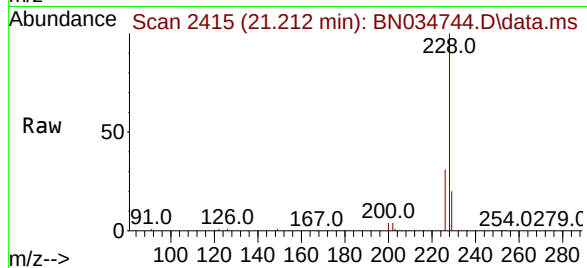
Tgt Ion:228 Resp: 121891

Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.601 ng

RT: 21.122 min Scan# 2405

Delta R.T. -0.002 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

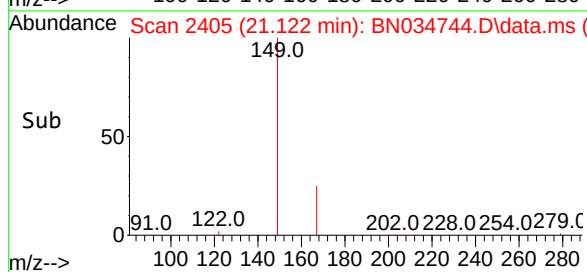
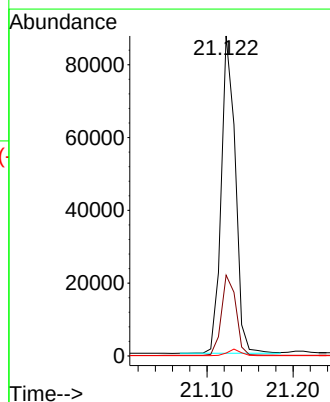
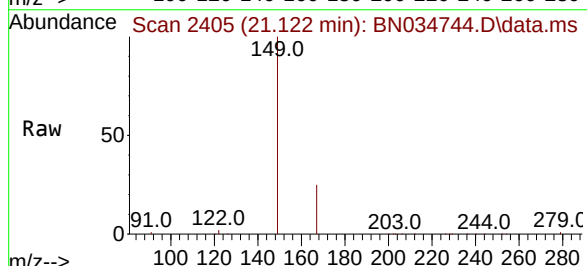
Tgt Ion:149 Resp: 98800

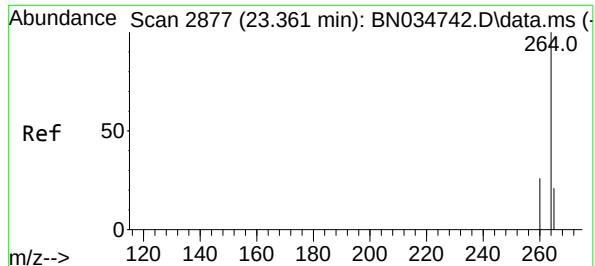
Ion Ratio Lower Upper

149 100

167 25.8 20.6 30.8

279 1.9 1.5 2.3

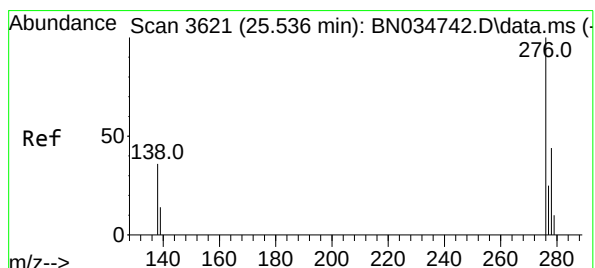
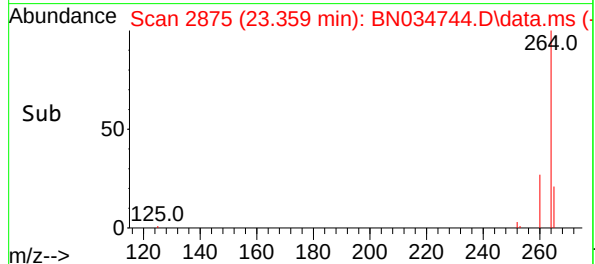
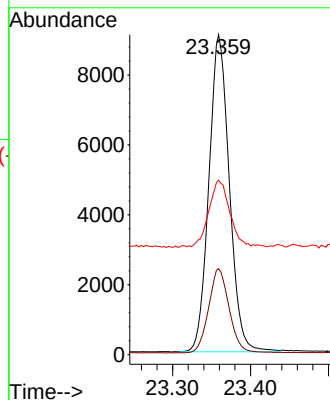
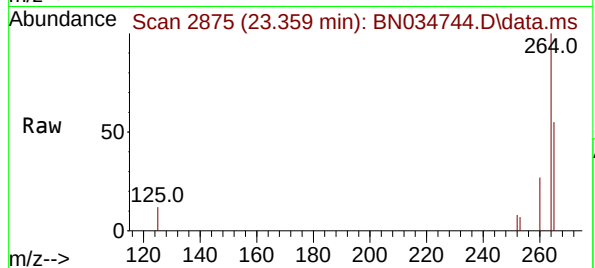




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.359 min Scan# 21
Delta R.T. -0.002 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

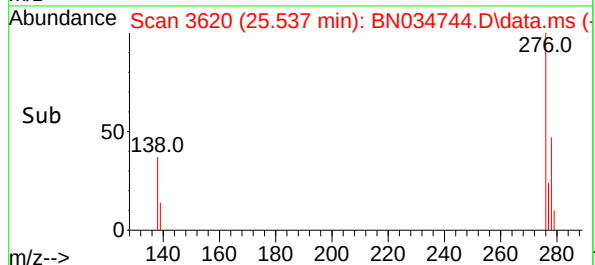
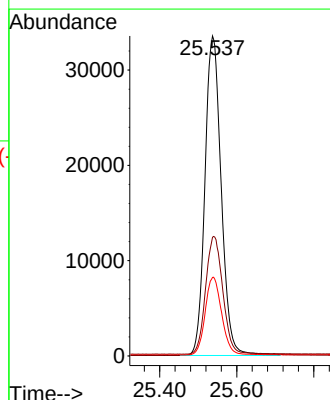
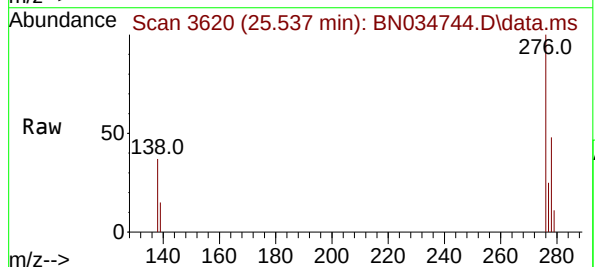
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

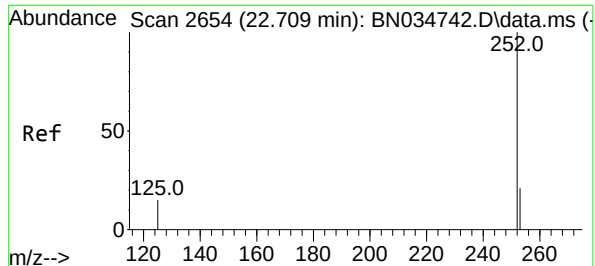
Tgt Ion:264 Resp: 16531
Ion Ratio Lower Upper
264 100
260 26.9 21.5 32.3
265 54.5 47.5 71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 1.612 ng
RT: 25.537 min Scan# 3620
Delta R.T. 0.001 min
Lab File: BN034744.D
Acq: 30 Oct 2024 11:44

Tgt Ion:276 Resp: 98007
Ion Ratio Lower Upper
276 100
138 38.9 31.5 47.3
277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 1.719 ng

RT: 22.710 min Scan# 20

Delta R.T. 0.001 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

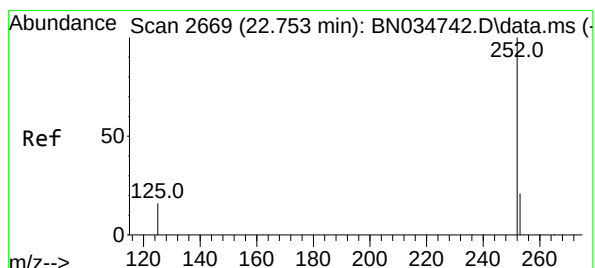
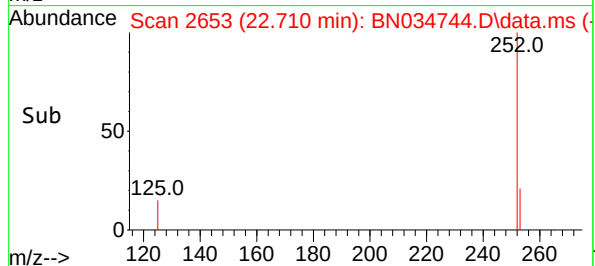
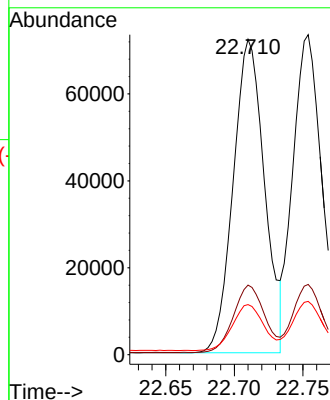
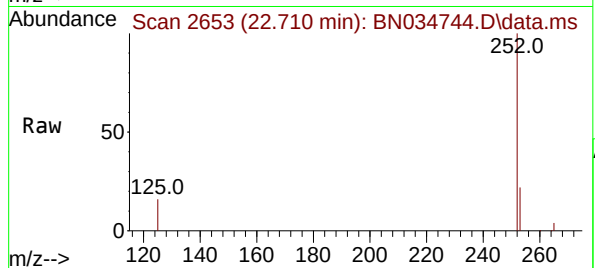
Tgt Ion:252 Resp: 114384

Ion Ratio Lower Upper

252 100

253 22.1 19.7 29.5

125 15.9 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 1.683 ng

RT: 22.754 min Scan# 2668

Delta R.T. 0.001 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

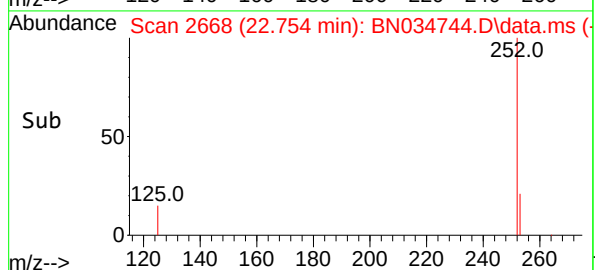
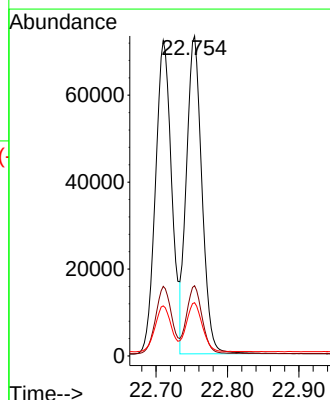
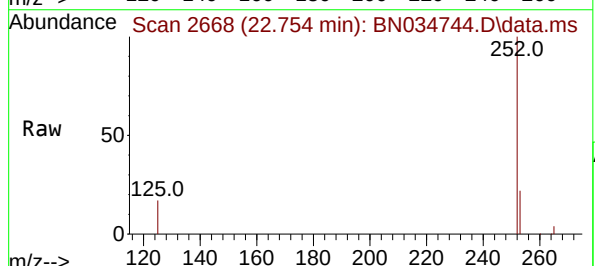
Tgt Ion:252 Resp: 109313

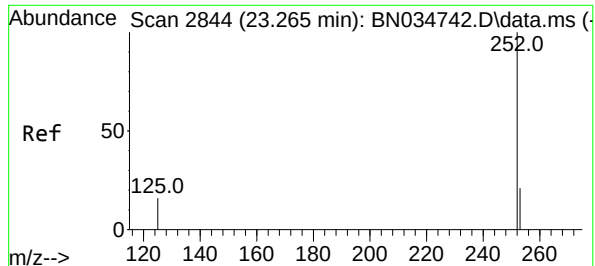
Ion Ratio Lower Upper

252 100

253 21.9 19.8 29.6

125 16.7 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 1.691 ng

RT: 23.265 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

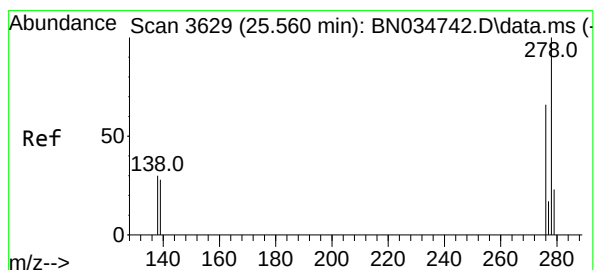
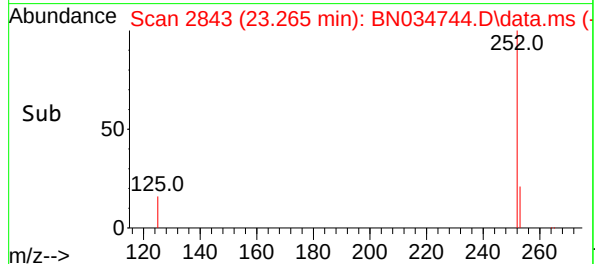
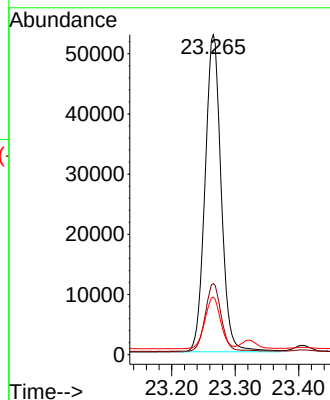
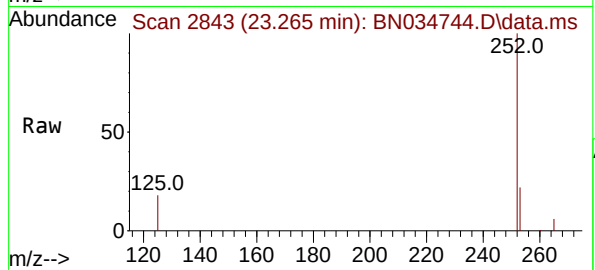
Tgt Ion:252 Resp: 92846

Ion Ratio Lower Upper

252 100

253 22.2 20.7 31.1

125 17.9 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 1.607 ng

RT: 25.555 min Scan# 3626

Delta R.T. -0.005 min

Lab File: BN034744.D

Acq: 30 Oct 2024 11:44

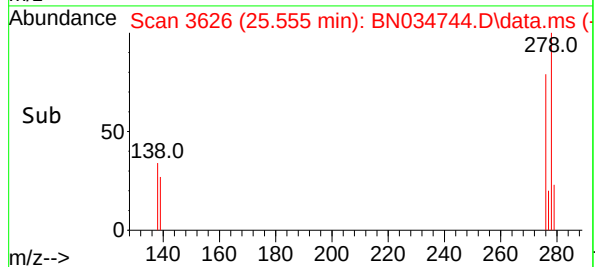
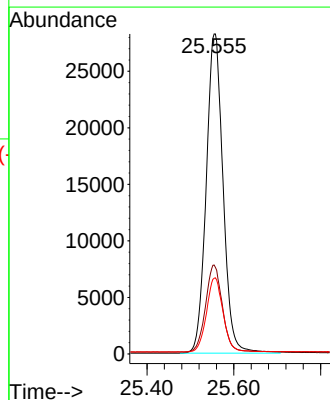
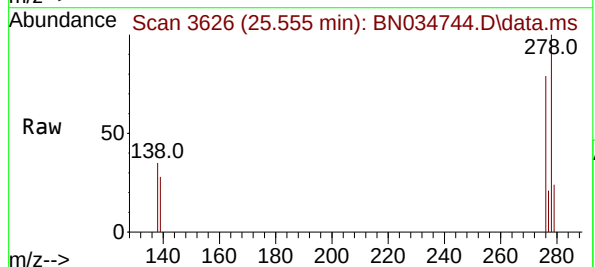
Tgt Ion:278 Resp: 76192

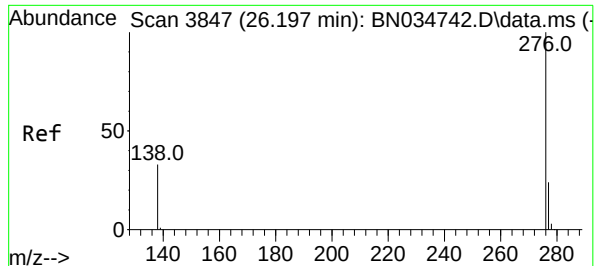
Ion Ratio Lower Upper

278 100

139 27.8 24.9 37.3

279 23.7 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 1.577 ng

RT: 26.198 min Scan# 3846

Delta R.T. 0.001 min

Lab File: BN034744.D

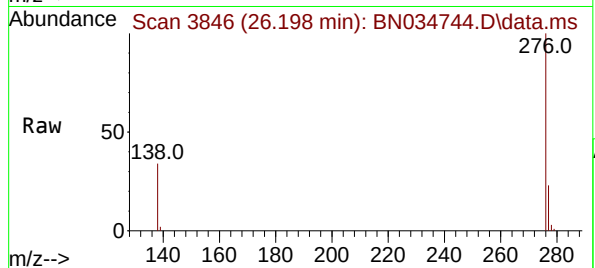
Acq: 30 Oct 2024 11:44

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



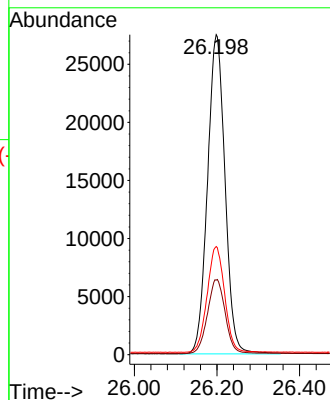
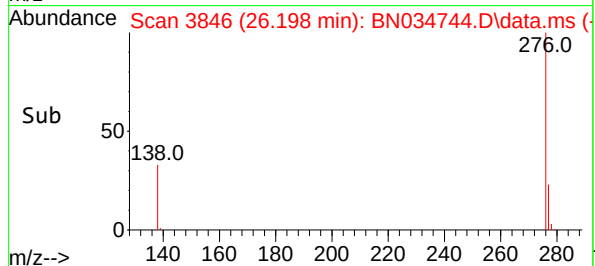
Tgt Ion:276 Resp: 80842

Ion Ratio Lower Upper

276 100

277 23.3 20.2 30.2

138 33.8 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034745.D
 Acq On : 30 Oct 2024 12:20
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Oct 30 13:33:31 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

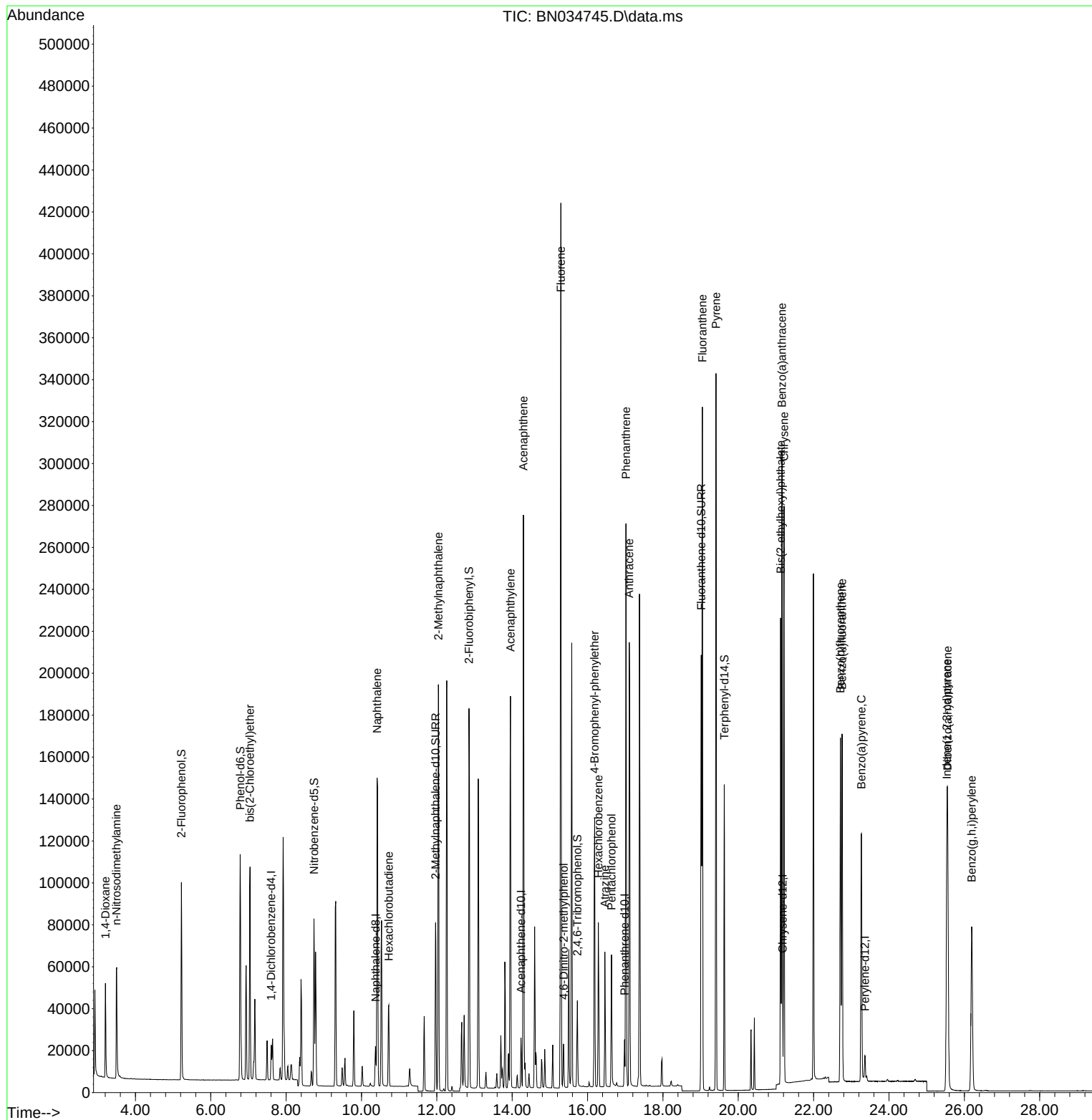
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7839	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	23469	0.400	ng	0.00
13) Acenaphthene-d10	14.233	164	12728	0.400	ng	0.00
19) Phenanthrene-d10	16.982	188	26921	0.400	ng	0.00
29) Chrysene-d12	21.178	240	17860	0.400	ng	0.00
35) Perylene-d12	23.361	264	14803	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	71738	3.021	ng	0.00
5) Phenol-d6	6.780	99	94762	3.071	ng	0.00
8) Nitrobenzene-d5	8.739	82	57884	3.138	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	106744	3.142	ng	0.00
14) 2,4,6-Tribromophenol	15.728	330	20998	3.340	ng	0.00
15) 2-Fluorobiphenyl	12.854	172	156997	3.132	ng	-0.01
27) Fluoranthene-d10	19.015	212	202339	3.204	ng	0.00
31) Terphenyl-d14	19.628	244	117940	3.075	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	26237	3.053	ng	95
3) n-Nitrosodimethylamine	3.494	42	30381	3.136	ng	99
6) bis(2-Chloroethyl)ether	7.040	93	69949	3.106	ng	100
9) Naphthalene	10.415	128	200718	3.093	ng	99
10) Hexachlorobutadiene	10.725	225	32560	3.046	ng	# 99
12) 2-Methylnaphthalene	12.041	142	133202	3.138	ng	99
16) Acenaphthylene	13.955	152	205467	3.217	ng	100
17) Acenaphthene	14.297	154	135647	3.188	ng	98
18) Fluorene	15.291	166	167960	3.167	ng	100
20) 4,6-Dinitro-2-methylph...	15.366	198	14820	3.054	ng	# 59
21) 4-Bromophenyl-phenylether	16.188	248	49257	3.162	ng	97
22) Hexachlorobenzene	16.287	284	54623	3.132	ng	99
23) Atrazine	16.461	200	43642	3.254	ng	98
24) Pentachlorophenol	16.634	266	27299	3.635	ng	99
25) Phenanthrene	17.019	178	251446	3.176	ng	100
26) Anthracene	17.106	178	238630	3.221	ng	100
28) Fluoranthene	19.048	202	279121	3.199	ng	100
30) Pyrene	19.410	202	285947	3.062	ng	100
32) Benzo(a)anthracene	21.160	228	225874	3.177	ng	99
33) Chrysene	21.214	228	216996	3.117	ng	99
34) Bis(2-ethylhexyl)phtha...	21.124	149	176797	2.974	ng	99
36) Indeno(1,2,3-cd)pyrene	25.536	276	168535	3.095	ng	99
37) Benzo(b)fluoranthene	22.712	252	191690	3.217	ng	# 91
38) Benzo(k)fluoranthene	22.753	252	190108	3.269	ng	# 90
39) Benzo(a)pyrene	23.268	252	158240	3.218	ng	# 88
40) Dibenzo(a,h)anthracene	25.557	278	131448	3.095	ng	93
41) Benzo(g,h,i)perylene	26.194	276	140292	3.057	ng	96

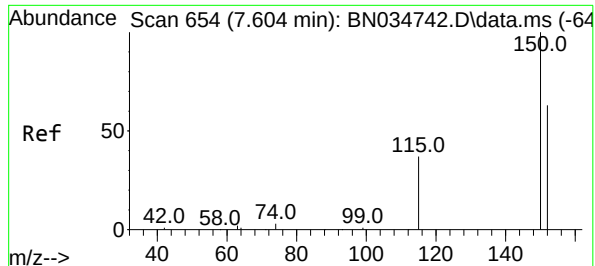
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034745.D
Acq On : 30 Oct 2024 12:20
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Oct 30 13:33:31 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

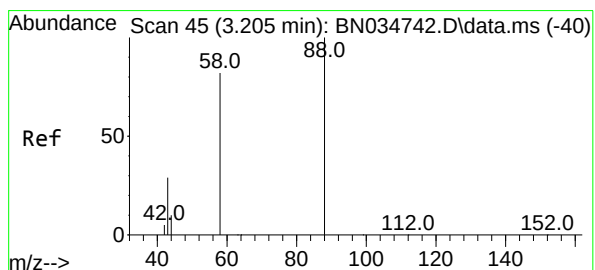
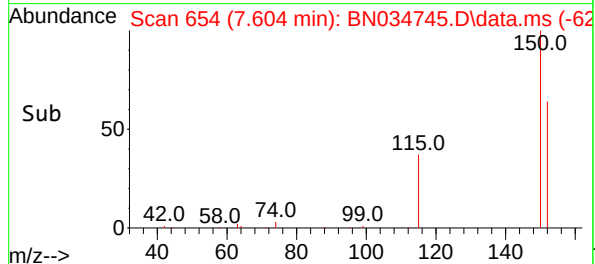
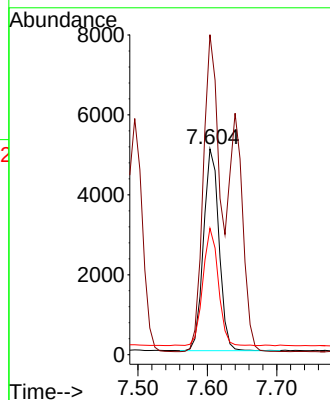
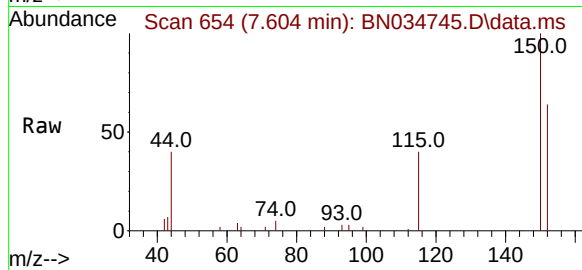




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

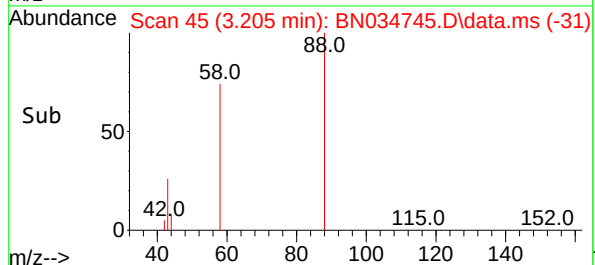
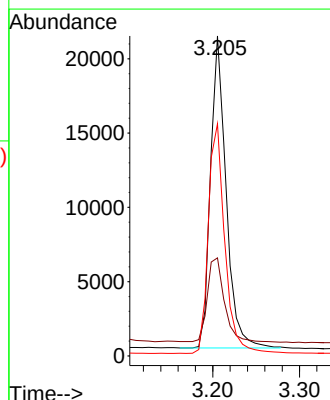
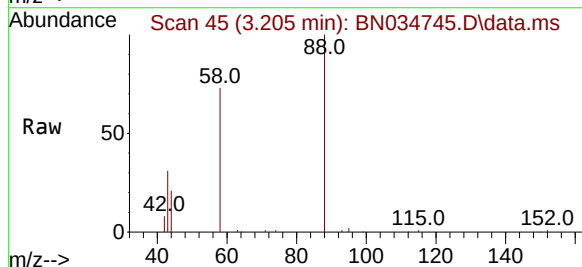
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

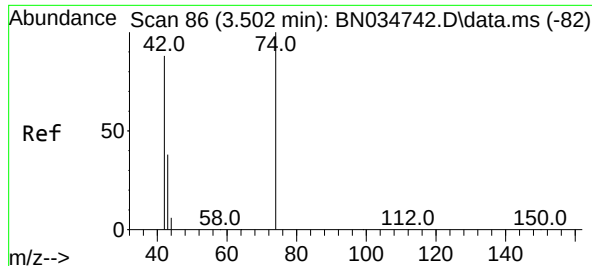
Tgt Ion:152 Resp: 7839
Ion Ratio Lower Upper
152 100
150 155.5 124.9 187.3
115 61.5 50.2 75.2



#2
1,4-Dioxane
Concen: 3.053 ng
RT: 3.205 min Scan# 45
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion: 88 Resp: 26237
Ion Ratio Lower Upper
88 100
43 29.8 26.7 40.1
58 77.8 59.3 88.9

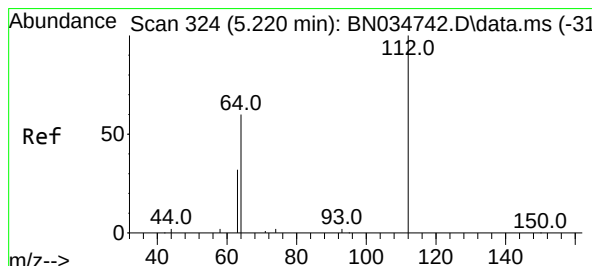
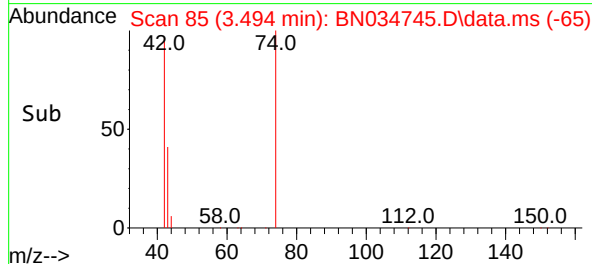
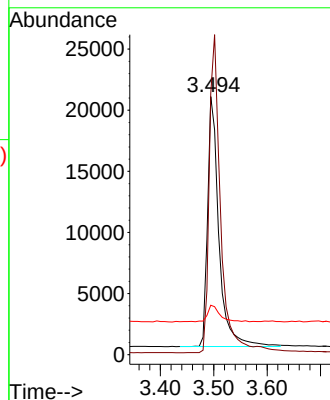
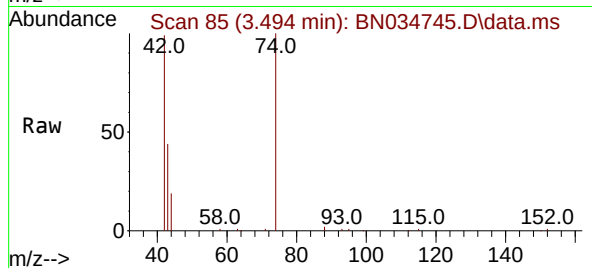




#3
n-Nitrosodimethylamine
Concen: 3.136 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

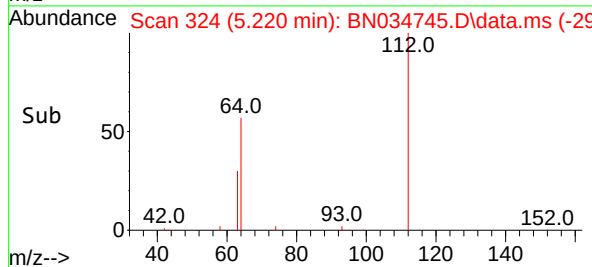
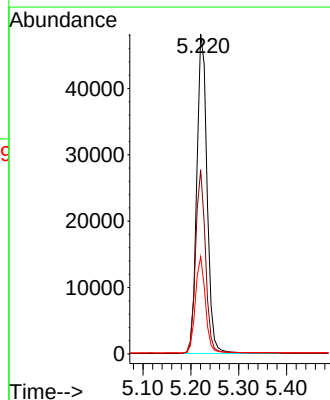
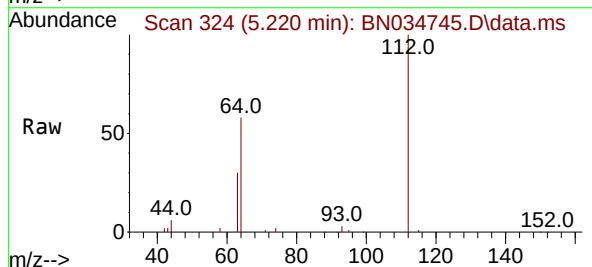
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

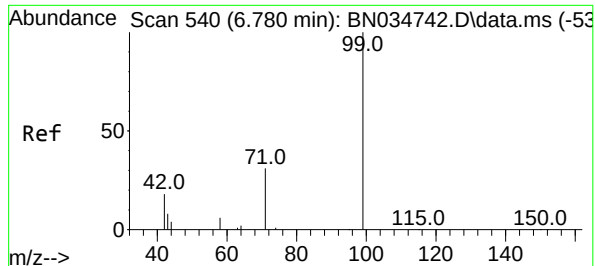
Tgt Ion: 42 Resp: 30381
Ion Ratio Lower Upper
42 100
74 128.3 103.1 154.7
44 7.8 6.7 10.1



#4
2-Fluorophenol
Concen: 3.021 ng
RT: 5.220 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion: 112 Resp: 71738
Ion Ratio Lower Upper
112 100
64 55.9 44.9 67.3
63 29.2 23.5 35.3

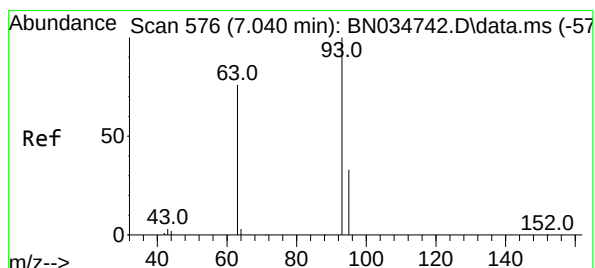
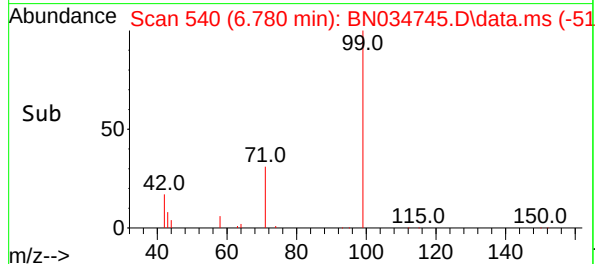
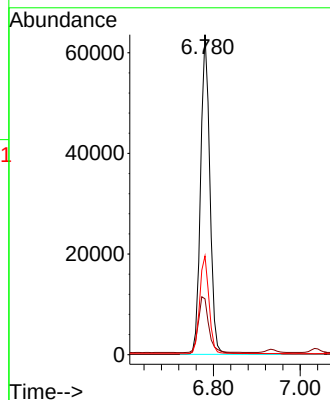
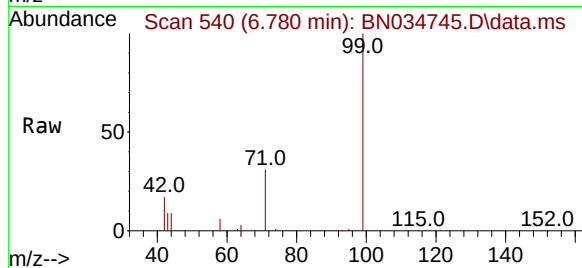




#5
Phenol-d6
Concen: 3.071 ng
RT: 6.780 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

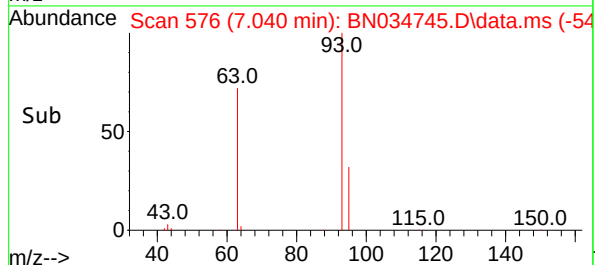
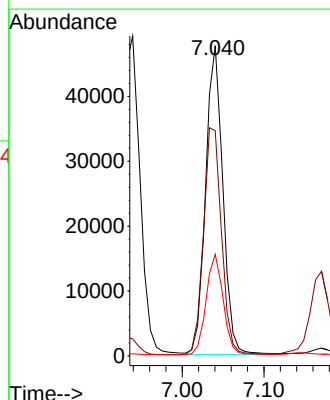
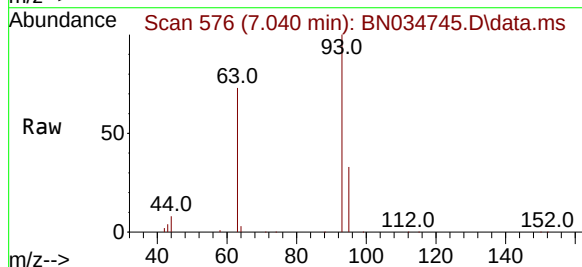
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

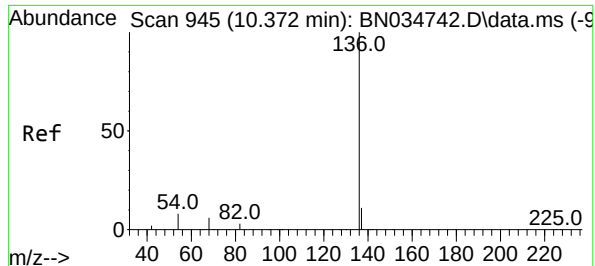
Tgt Ion: 99 Resp: 94762
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 30.8 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 3.106 ng
RT: 7.040 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion: 93 Resp: 69949
Ion Ratio Lower Upper
93 100
63 76.8 61.2 91.8
95 32.1 25.8 38.8

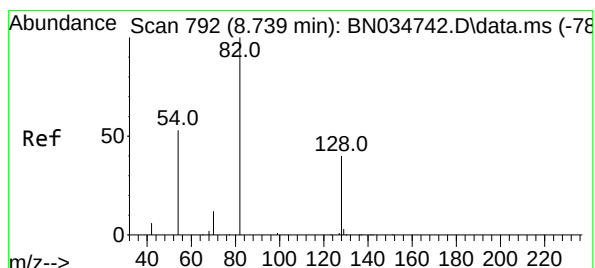
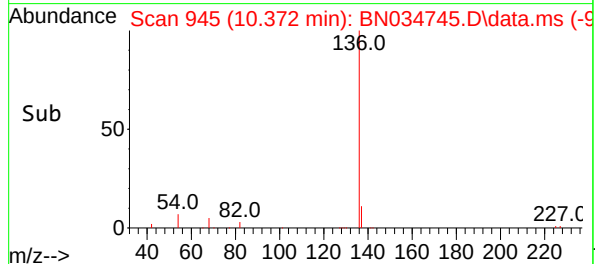
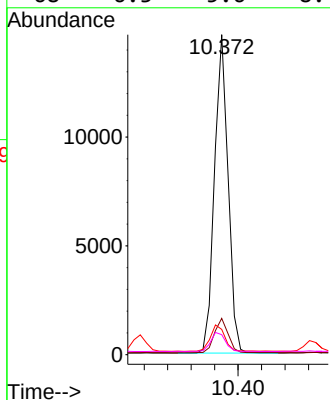
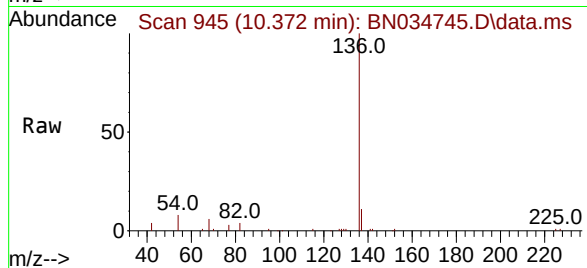




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

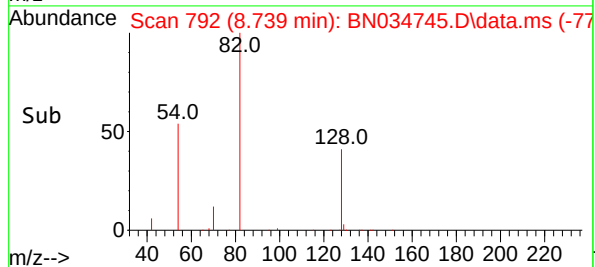
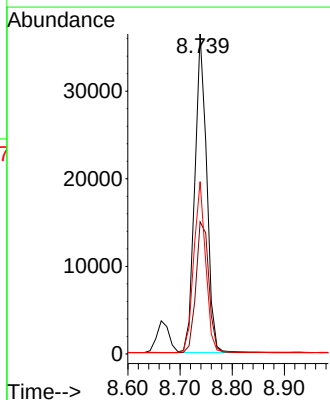
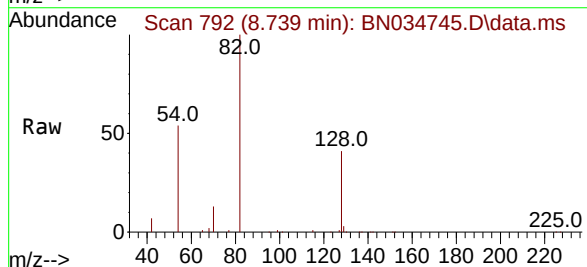
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

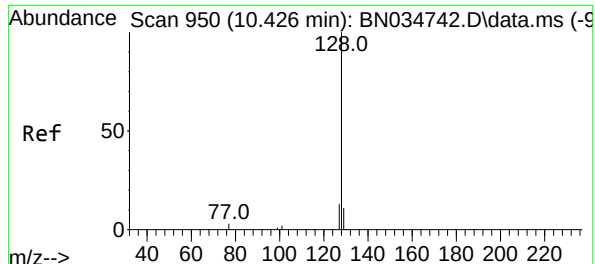
Tgt Ion:	136	Resp:	23469
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.2	13.8
54	7.9	7.0	10.4
68	6.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 3.138 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:	82	Resp:	57884
Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.7	50.5
54	53.9	44.4	66.6

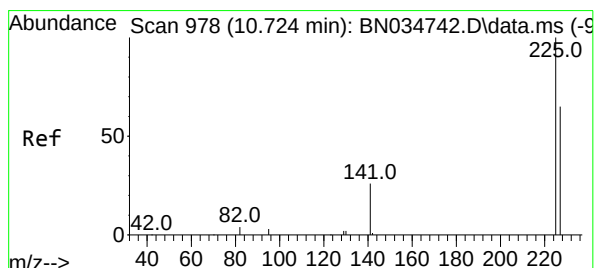
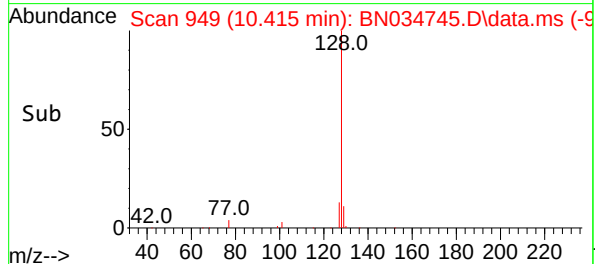
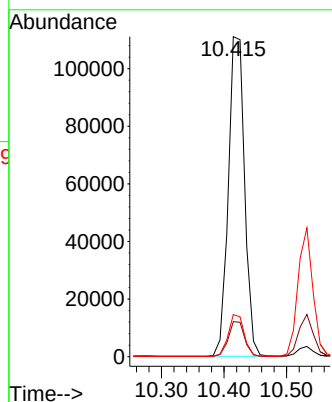
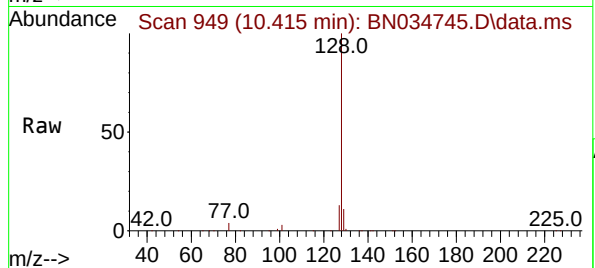




#9
Naphthalene
Concen: 3.093 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

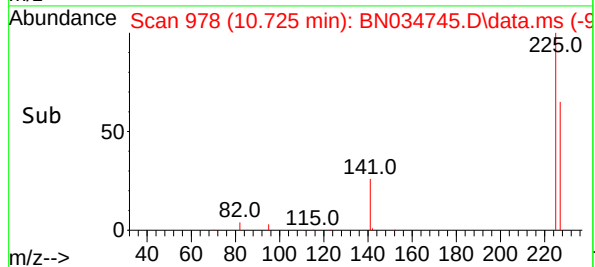
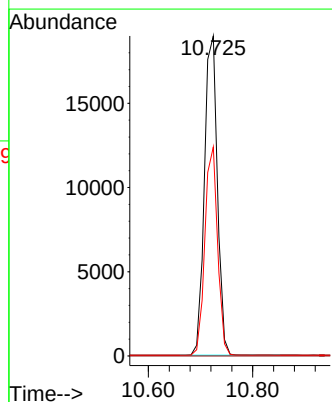
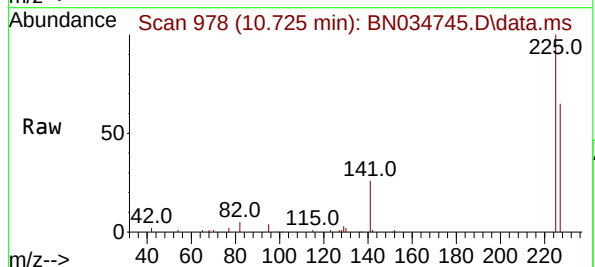
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

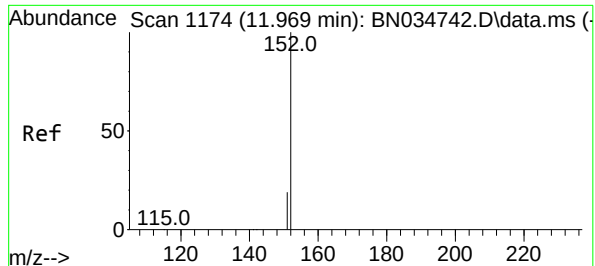
Tgt Ion:128 Resp: 200718
Ion Ratio Lower Upper
128 100
129 10.9 9.4 14.0
127 13.2 10.6 15.8



#10
Hexachlorobutadiene
Concen: 3.046 ng
RT: 10.725 min Scan# 978
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:225 Resp: 32560
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.4 77.2

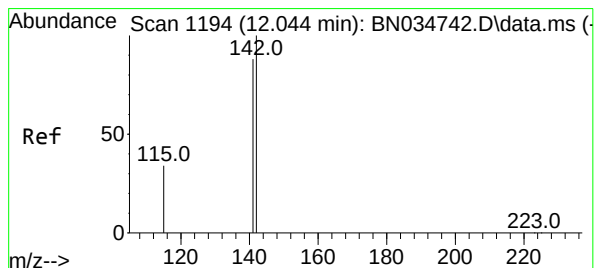
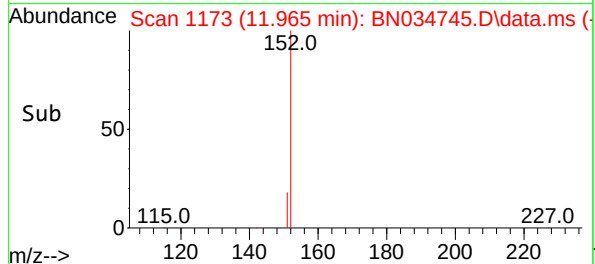
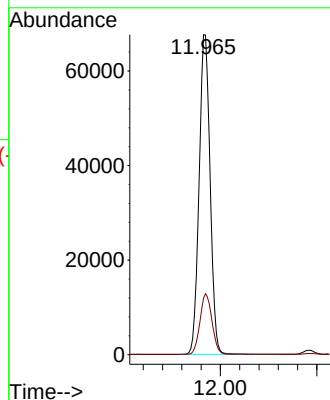
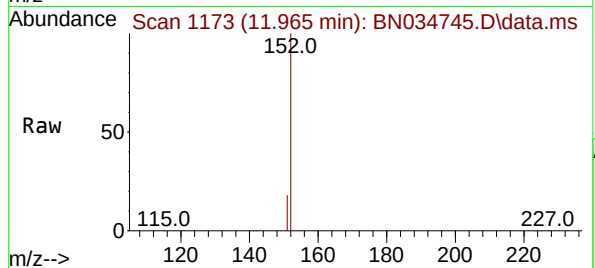




#11
2-Methylnaphthalene-d10
Concen: 3.142 ng
RT: 11.965 min Scan# 1173
Delta R.T. -0.004 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

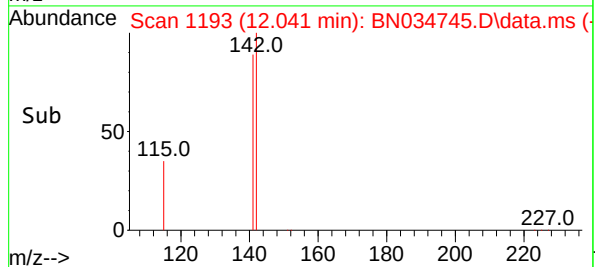
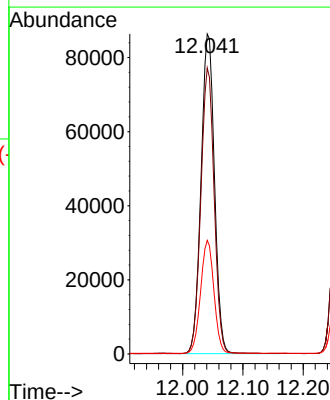
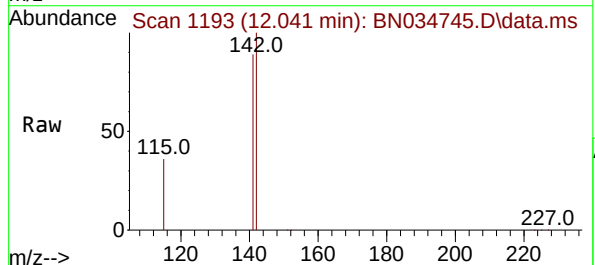
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

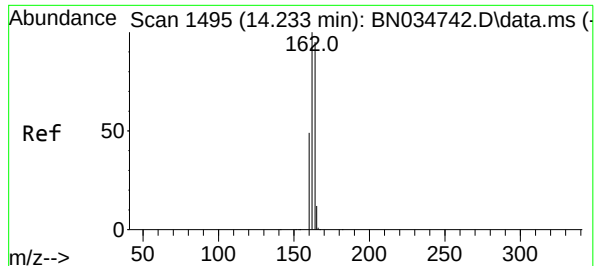
Tgt Ion:152 Resp: 106744
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 3.138 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:142 Resp: 133202
Ion Ratio Lower Upper
142 100
141 89.4 70.6 106.0
115 35.5 28.6 42.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.233 min Scan# 1495

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

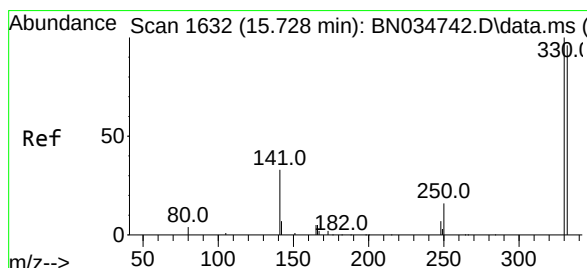
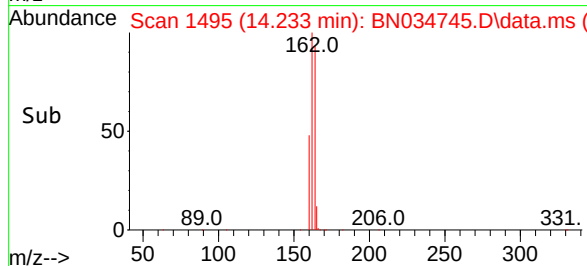
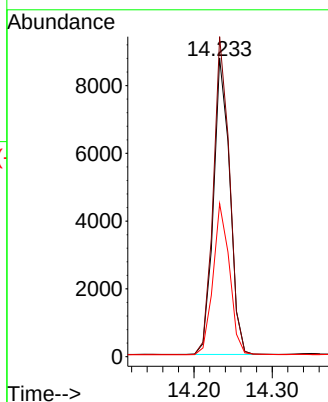
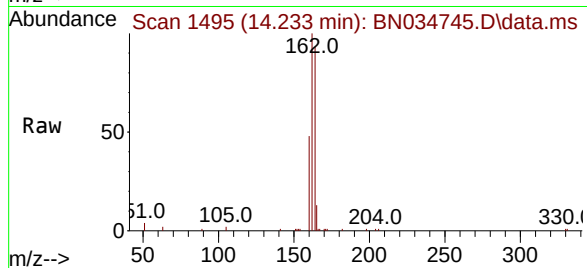
Tgt Ion:164 Resp: 12728

Ion Ratio Lower Upper

164 100

162 107.1 84.3 126.5

160 51.2 41.7 62.5



#14

2,4,6-Tribromophenol

Concen: 3.340 ng

RT: 15.728 min Scan# 1632

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

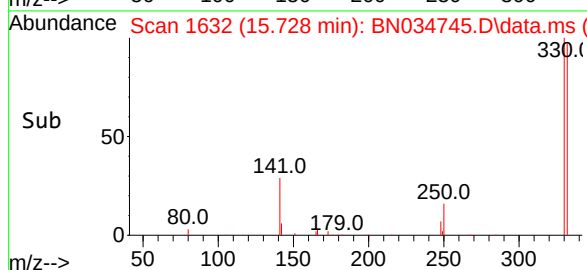
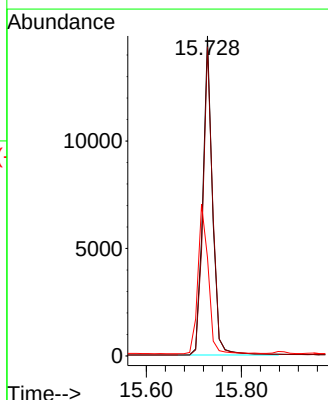
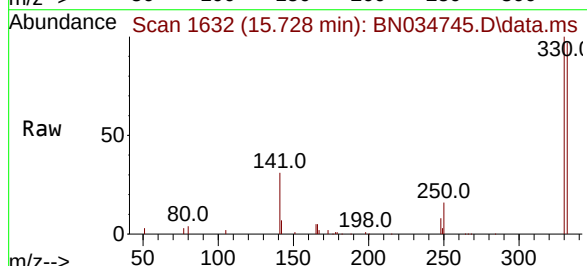
Tgt Ion:330 Resp: 20998

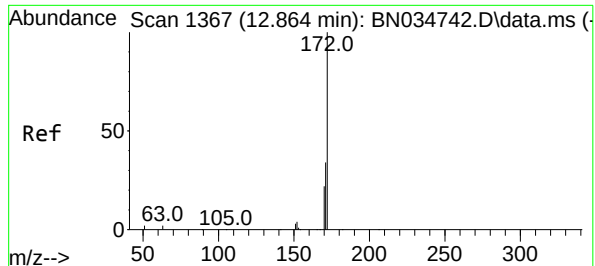
Ion Ratio Lower Upper

330 100

332 97.1 77.8 116.6

141 50.0 41.0 61.4

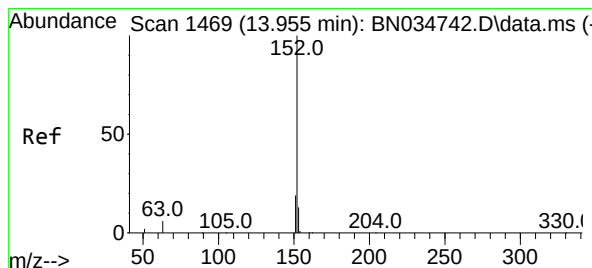
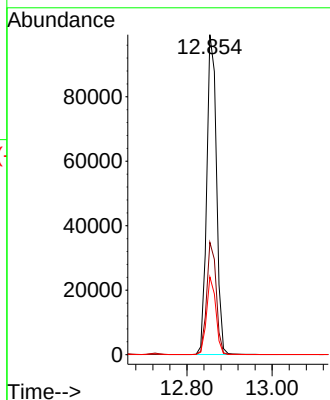
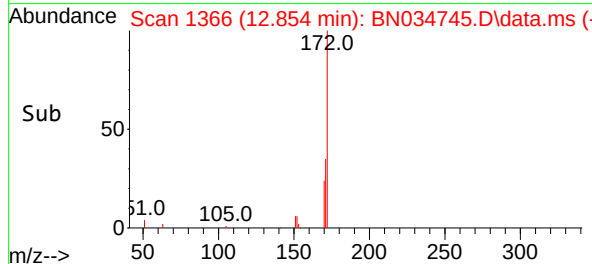
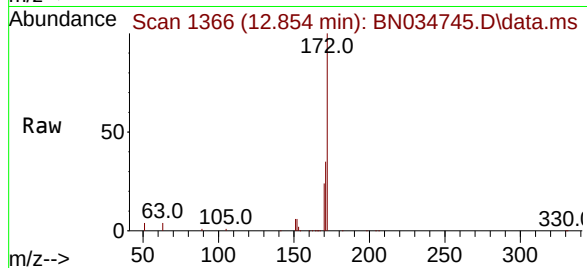




#15
2-Fluorobiphenyl
Concen: 3.132 ng
RT: 12.854 min Scan# 1366
Delta R.T. -0.011 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

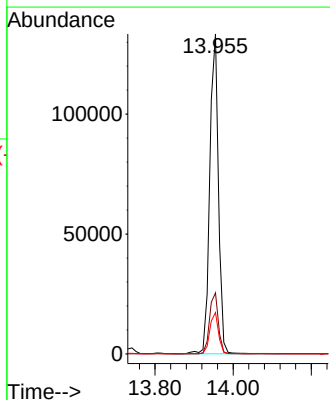
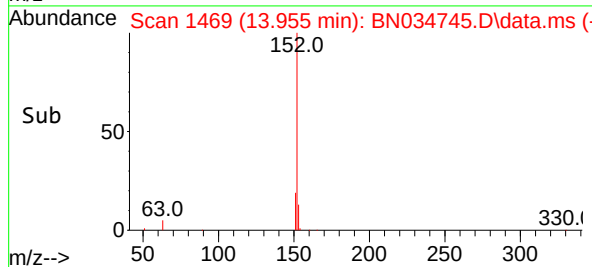
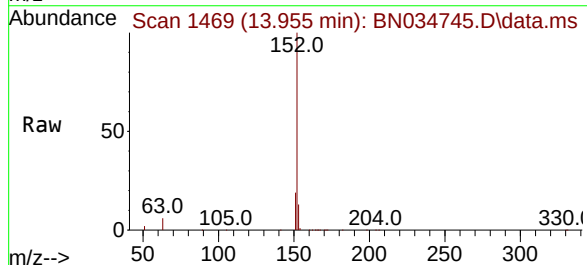
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

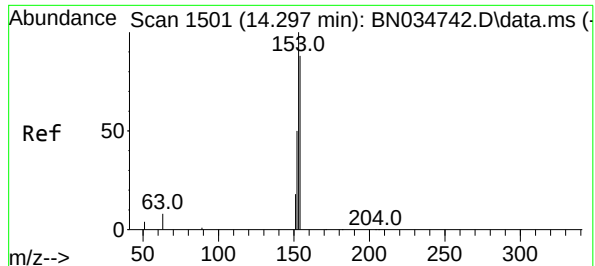
Tgt Ion:172 Resp: 156997
Ion Ratio Lower Upper
172 100
171 35.1 27.2 40.8
170 24.3 18.0 27.0



#16
Acenaphthylene
Concen: 3.217 ng
RT: 13.955 min Scan# 1469
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:152 Resp: 205467
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.2
153 12.9 10.2 15.4

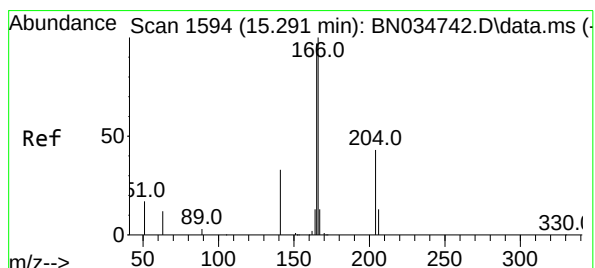
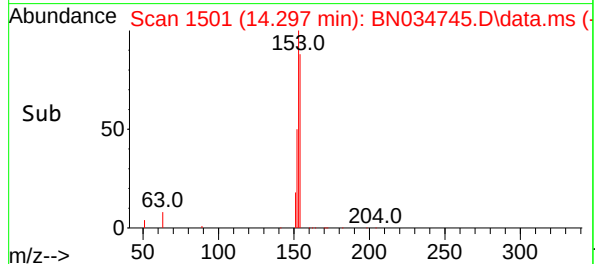
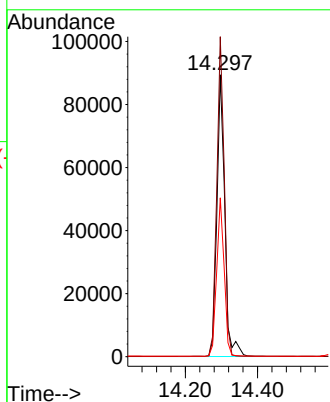
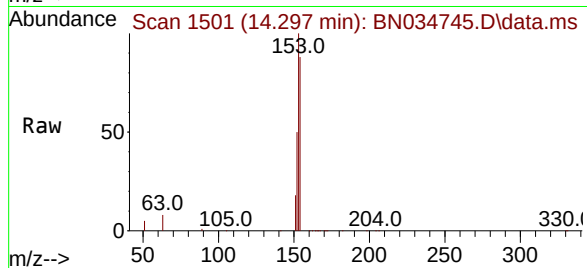




#17
Acenaphthene
Concen: 3.188 ng
RT: 14.297 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

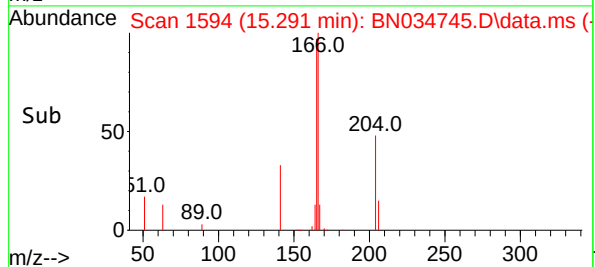
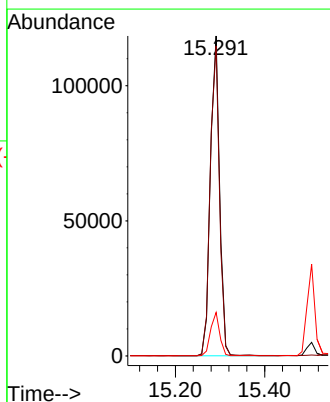
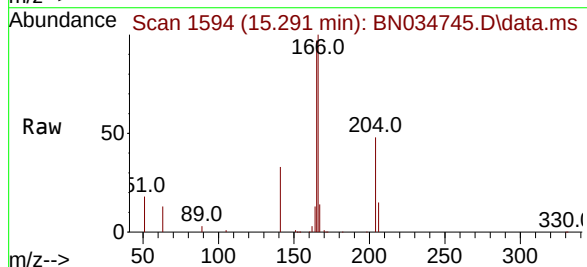
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

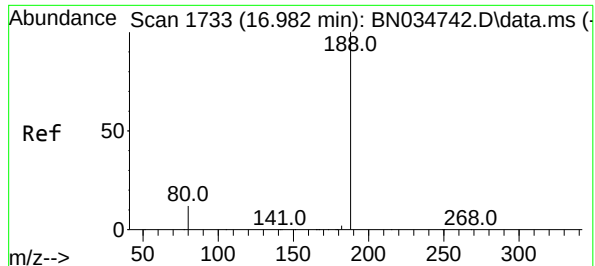
Tgt Ion:154 Resp: 135647
Ion Ratio Lower Upper
154 100
153 107.7 87.8 131.6
152 53.5 44.6 67.0



#18
Fluorene
Concen: 3.167 ng
RT: 15.291 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:166 Resp: 167960
Ion Ratio Lower Upper
166 100
165 97.8 78.5 117.7
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.982 min Scan# 1733

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

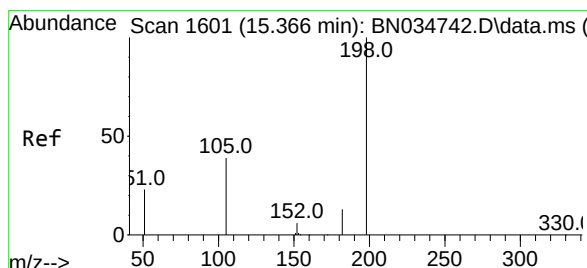
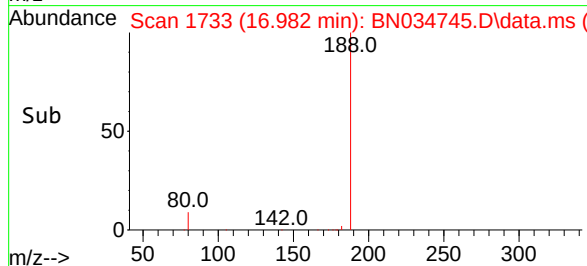
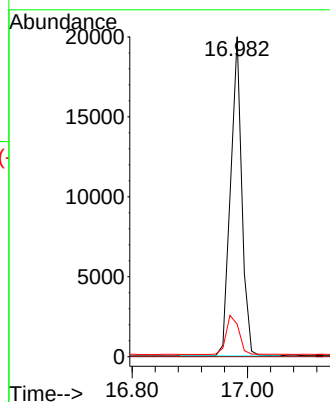
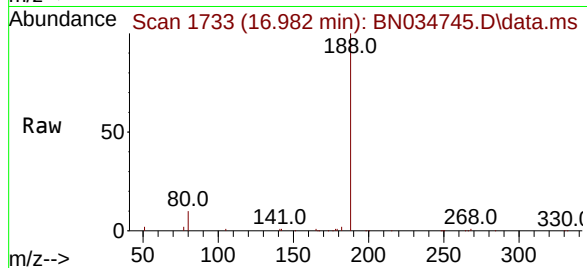
Tgt Ion:188 Resp: 26921

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 3.054 ng

RT: 15.366 min Scan# 1601

Delta R.T. -0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

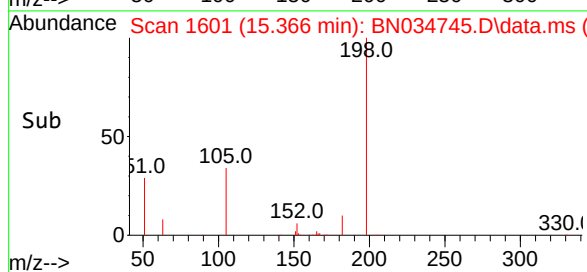
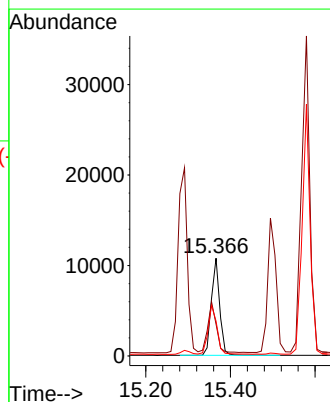
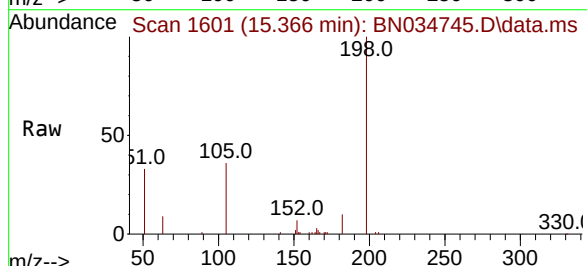
Tgt Ion:198 Resp: 14820

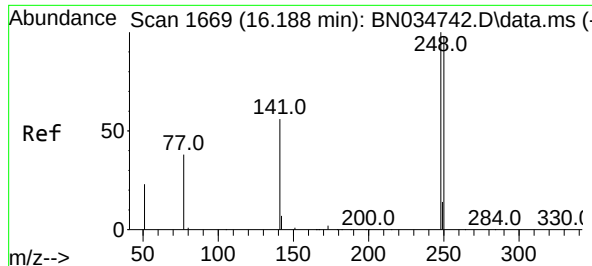
Ion Ratio Lower Upper

198 100

51 32.6 58.0 87.0#

105 35.7 49.1 73.7#

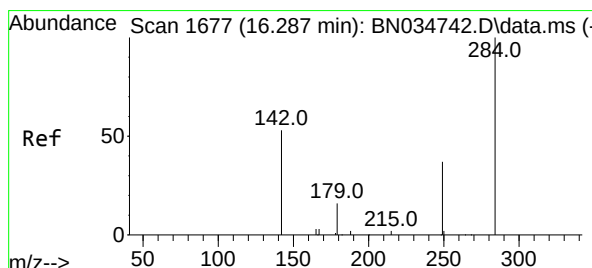
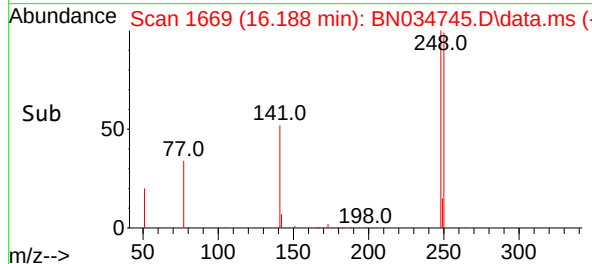
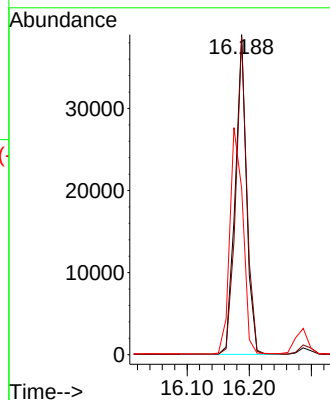
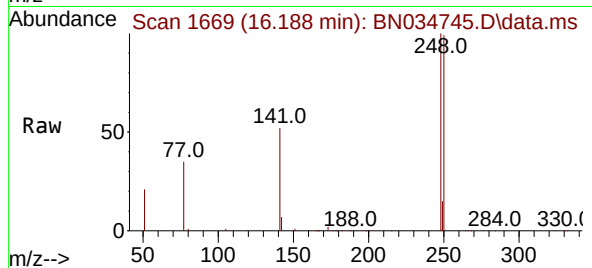




#21
4-Bromophenyl-phenylether
Concen: 3.162 ng
RT: 16.188 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

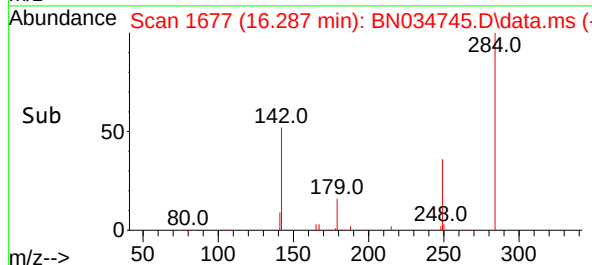
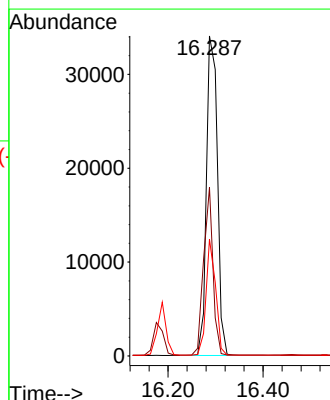
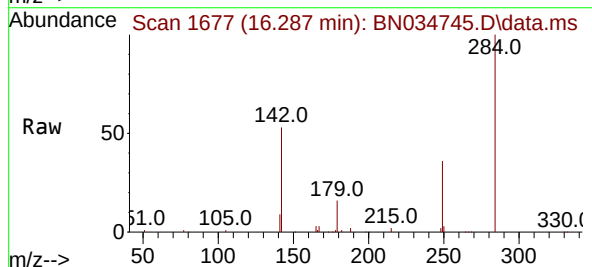
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

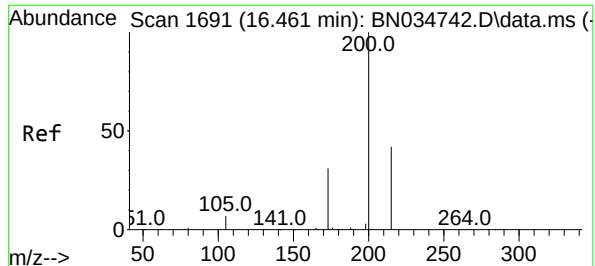
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.1	78.7	118.1
141	52.0	46.4	69.6



#22
Hexachlorobenzene
Concen: 3.132 ng
RT: 16.287 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion	Ratio	Lower	Upper
284	100		
142	45.0	35.4	53.0
249	31.7	25.7	38.5





#23

Atrazine

Concen: 3.254 ng

RT: 16.461 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

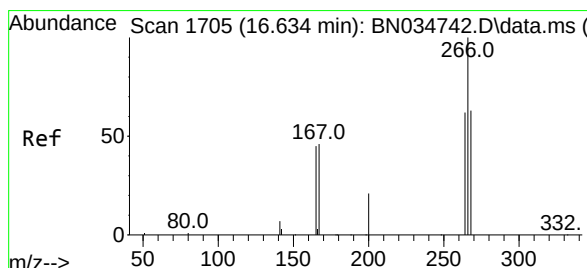
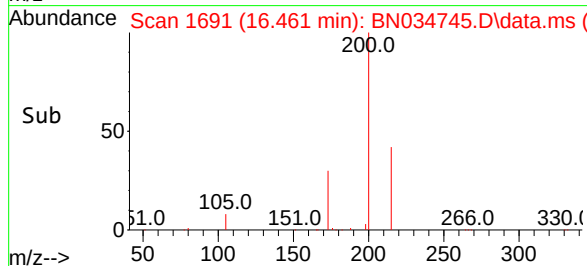
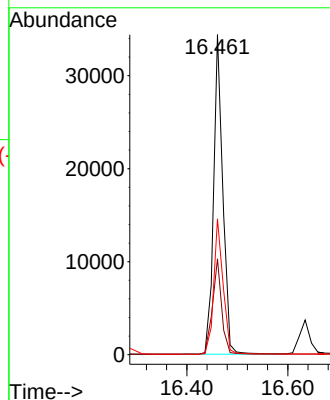
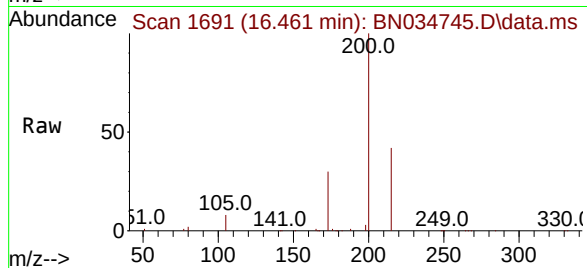
Tgt Ion:200 Resp: 43642

Ion Ratio Lower Upper

200 100

173 29.9 25.8 38.6

215 42.5 34.2 51.4



#24

Pentachlorophenol

Concen: 3.635 ng

RT: 16.634 min Scan# 1705

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

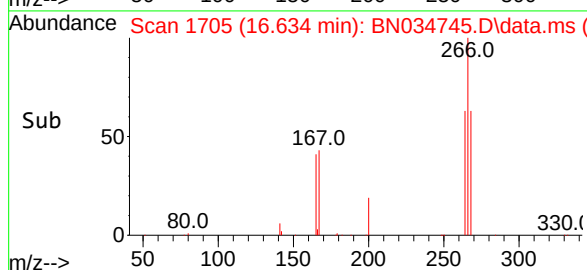
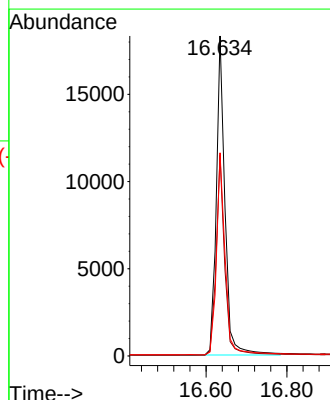
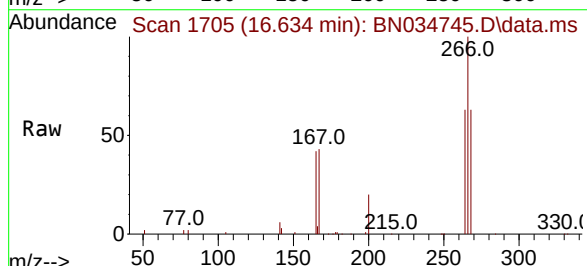
Tgt Ion:266 Resp: 27299

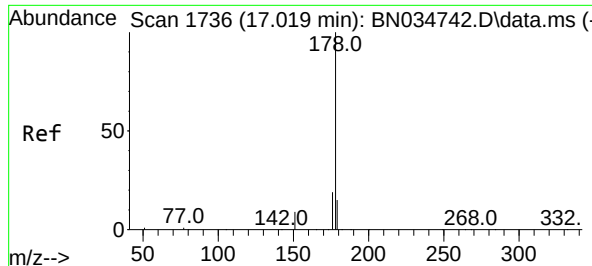
Ion Ratio Lower Upper

266 100

264 62.4 48.7 73.1

268 63.6 50.2 75.4

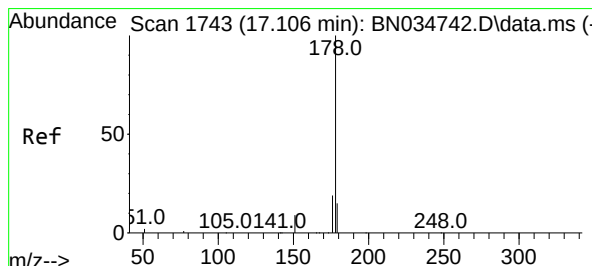
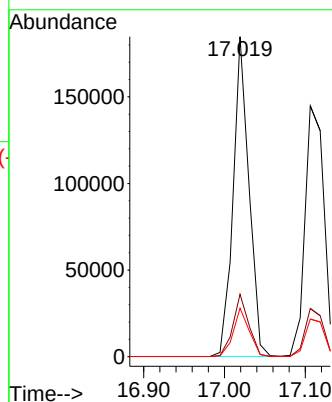
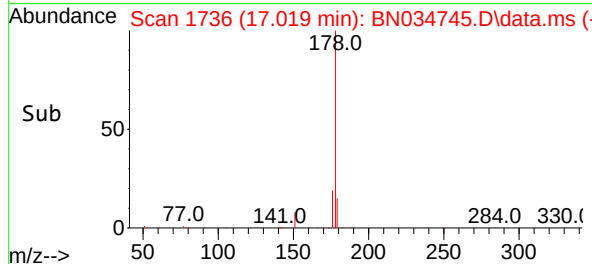
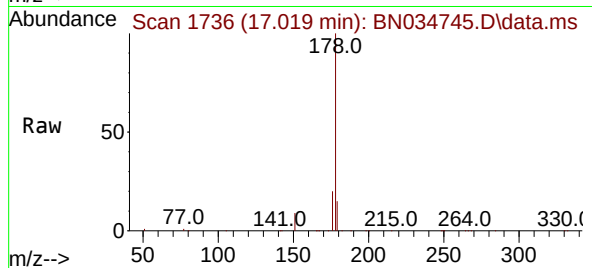




#25
Phenanthrene
Concen: 3.176 ng
RT: 17.019 min Scan# 1736
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

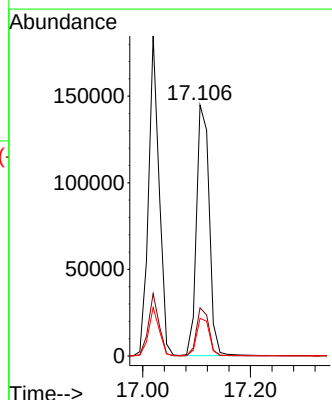
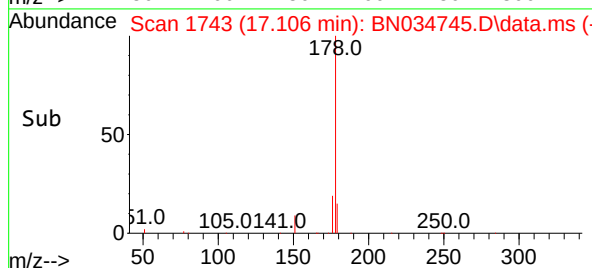
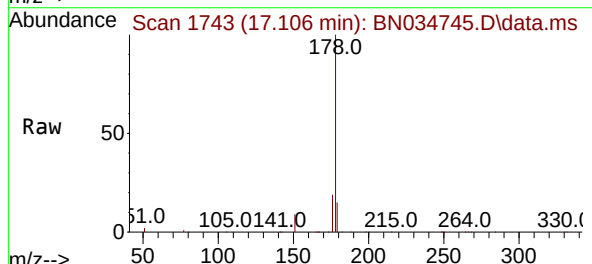
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

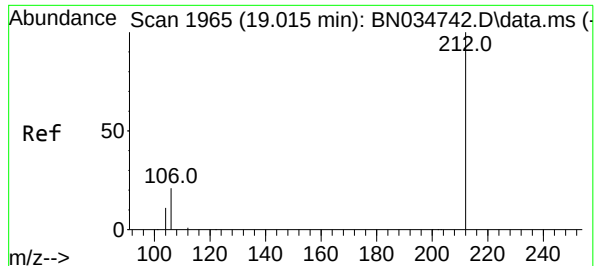
Tgt Ion:178 Resp: 251446
Ion Ratio Lower Upper
178 100
176 19.4 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 3.221 ng
RT: 17.106 min Scan# 1743
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:178 Resp: 238630
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 3.204 ng

RT: 19.015 min Scan# 1965

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

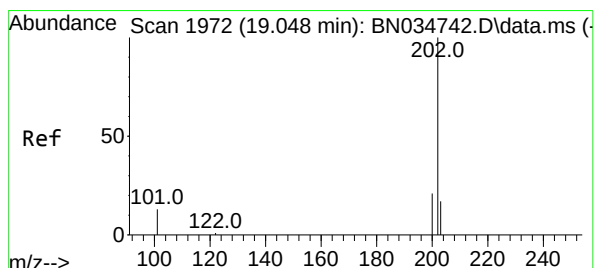
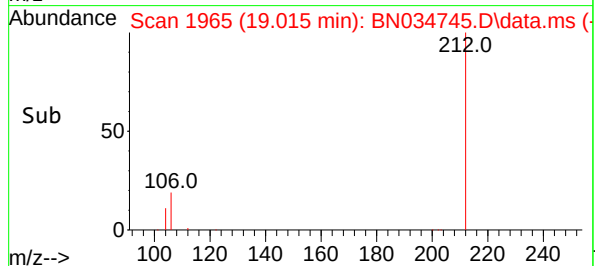
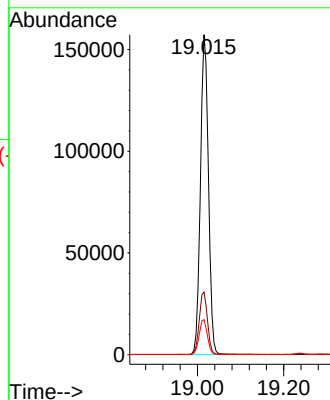
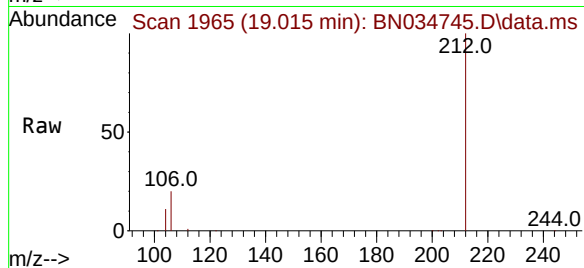
Tgt Ion:212 Resp: 202339

Ion Ratio Lower Upper

212 100

106 19.9 16.1 24.1

104 11.1 9.2 13.8



#28

Fluoranthene

Concen: 3.199 ng

RT: 19.048 min Scan# 1972

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

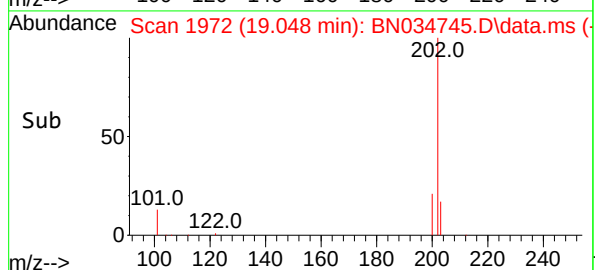
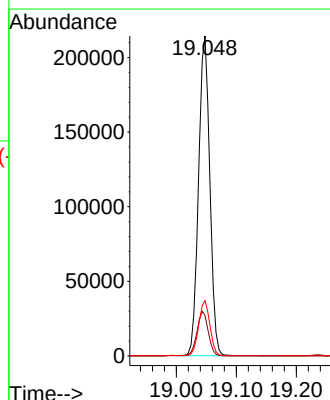
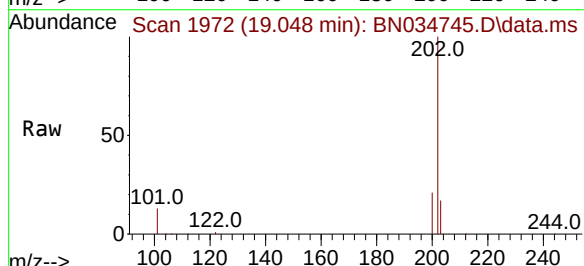
Tgt Ion:202 Resp: 279121

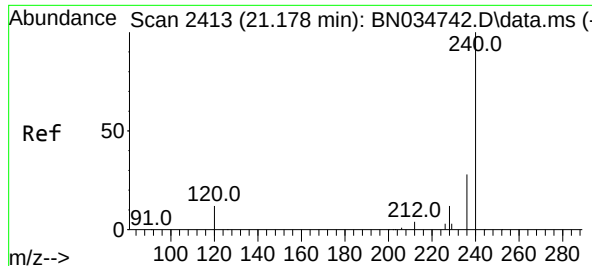
Ion Ratio Lower Upper

202 100

101 14.1 11.4 17.0

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.178 min Scan# 2413

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

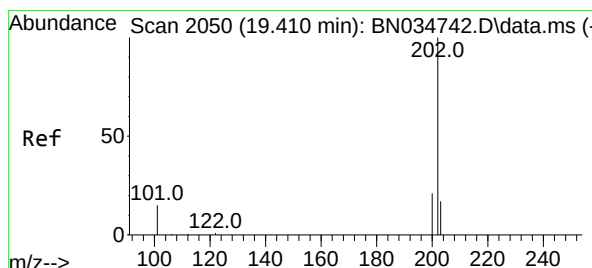
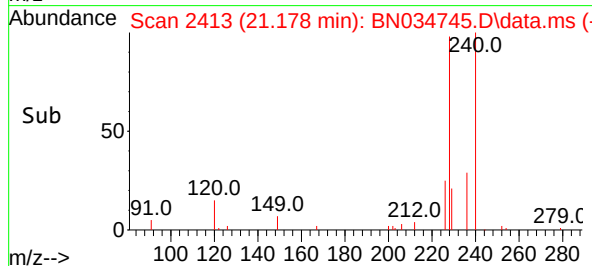
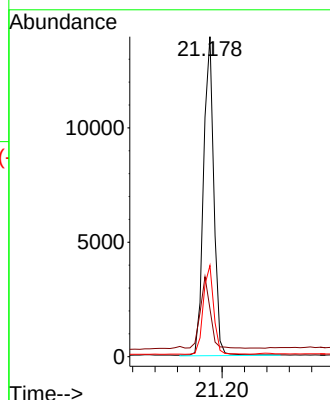
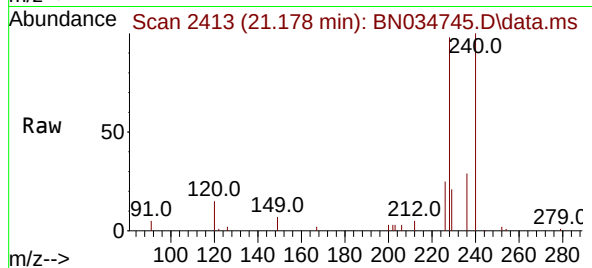
Tgt Ion:240 Resp: 17860

Ion Ratio Lower Upper

240 100

120 15.0 11.5 17.3

236 28.5 23.2 34.8



#30

Pyrene

Concen: 3.062 ng

RT: 19.410 min Scan# 2050

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

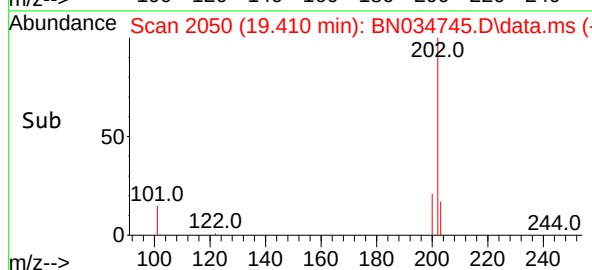
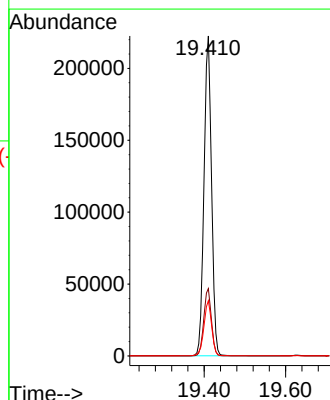
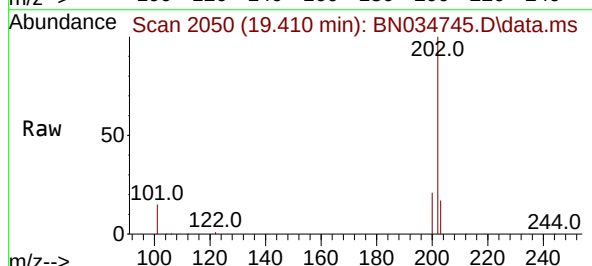
Tgt Ion:202 Resp: 285947

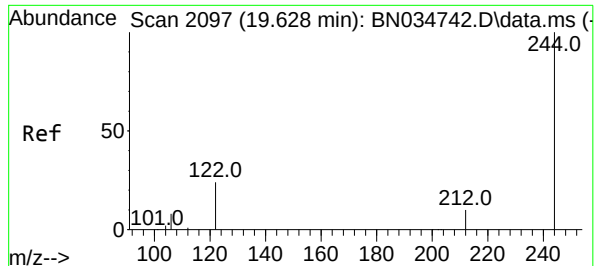
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.2 21.2

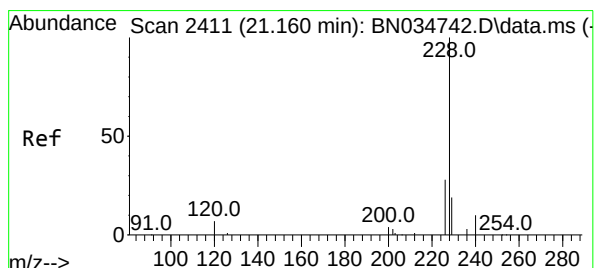
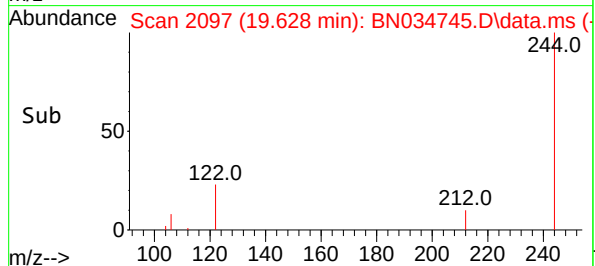
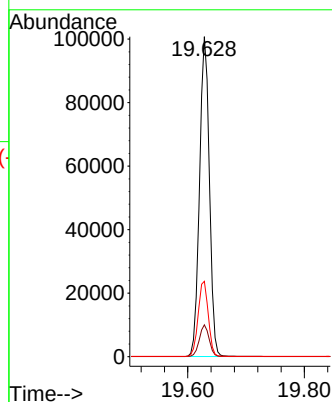
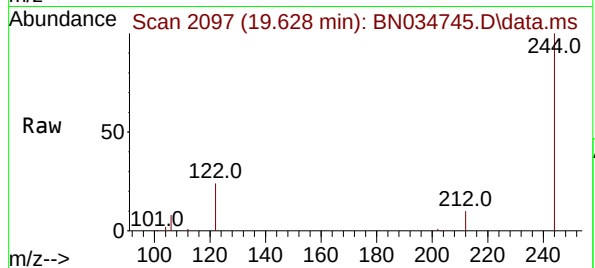




#31
Terphenyl-d14
Concen: 3.075 ng
RT: 19.628 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

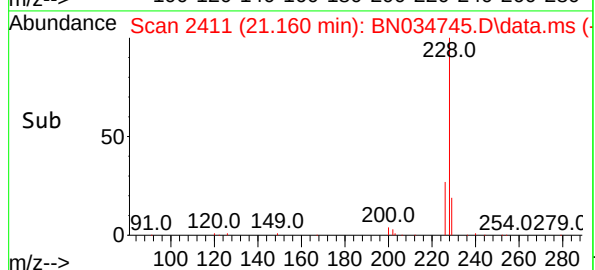
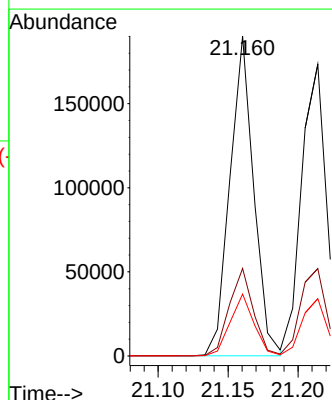
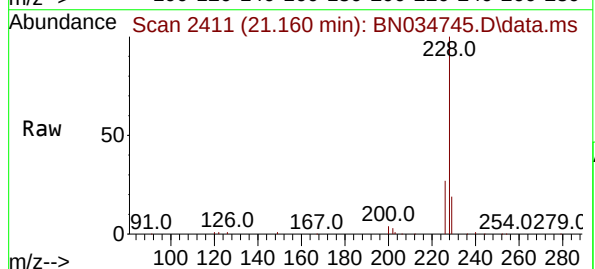
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

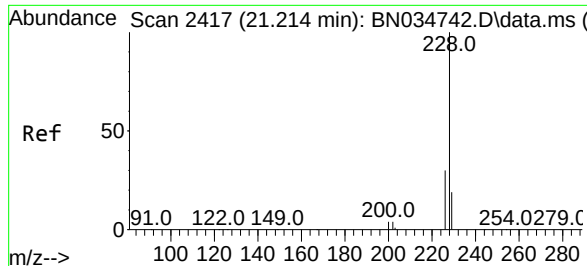
Tgt Ion:244 Resp: 117940
Ion Ratio Lower Upper
244 100
212 9.9 8.2 12.4
122 23.6 19.8 29.6



#32
Benzo(a)anthracene
Concen: 3.177 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034745.D
Acq: 30 Oct 2024 12:20

Tgt Ion:228 Resp: 225874
Ion Ratio Lower Upper
228 100
226 27.4 22.6 33.8
229 19.4 15.7 23.5





#33

Chrysene

Concen: 3.117 ng

RT: 21.214 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

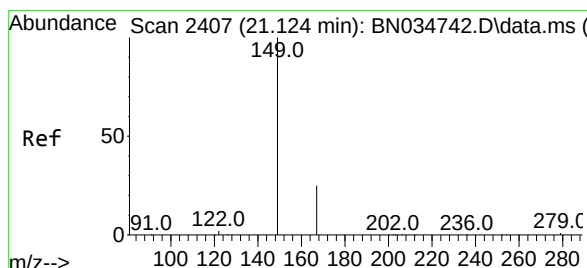
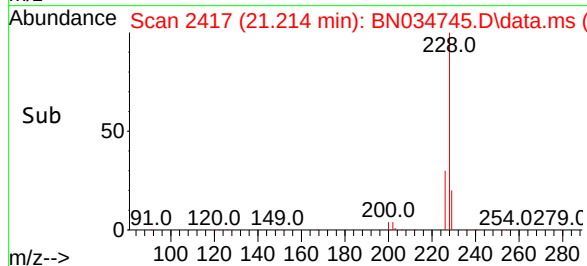
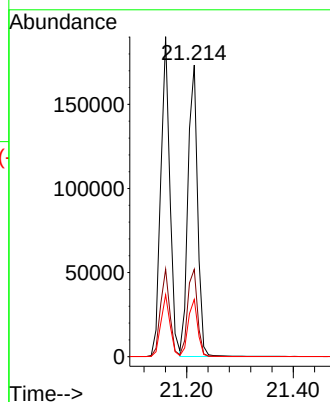
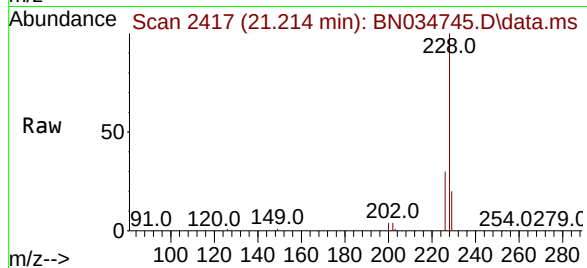
Tgt Ion:228 Resp: 216996

Ion Ratio Lower Upper

228 100

226 29.9 24.4 36.6

229 19.6 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.974 ng

RT: 21.124 min Scan# 2407

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

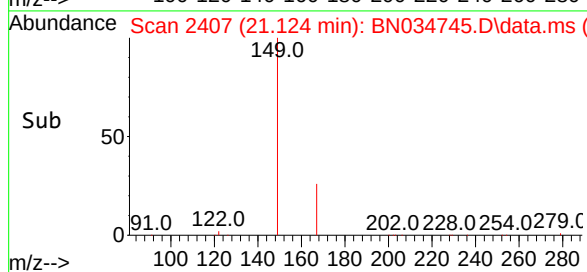
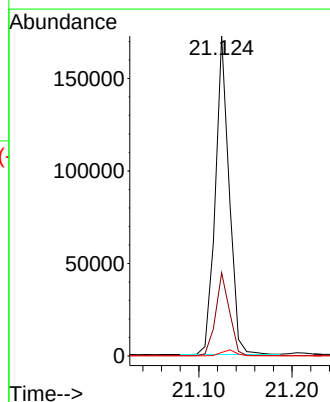
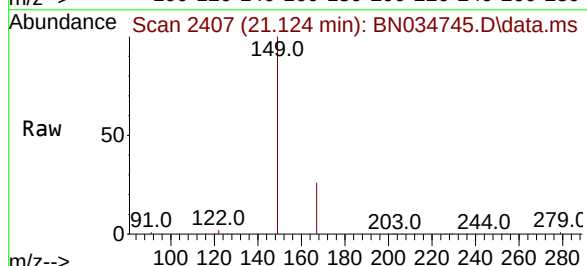
Tgt Ion:149 Resp: 176797

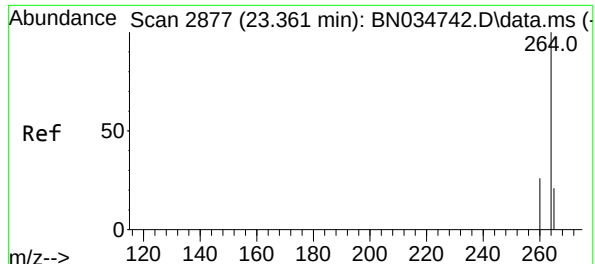
Ion Ratio Lower Upper

149 100

167 26.0 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.361 min Scan# 2877

Delta R.T. 0.000 min

Lab File: BN034745.D

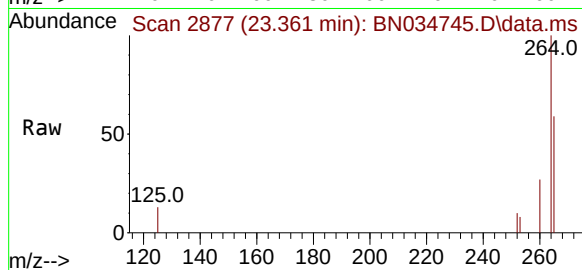
Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



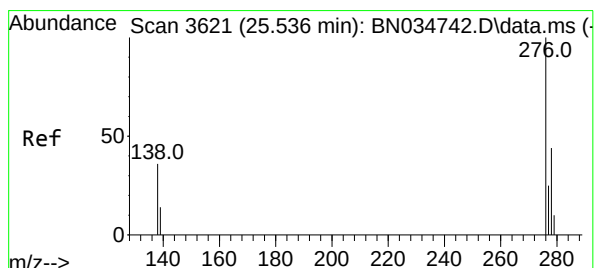
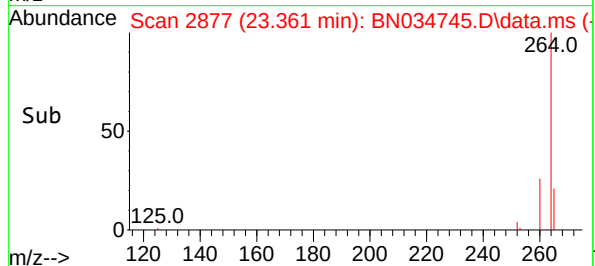
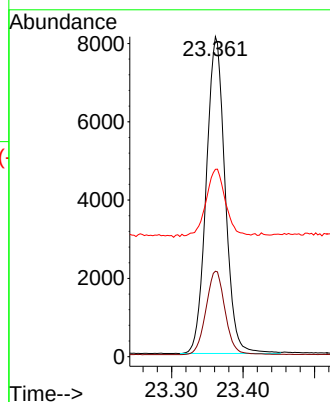
Tgt Ion:264 Resp: 14803

Ion Ratio Lower Upper

264 100

260 26.7 21.5 32.3

265 58.5 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.095 ng

RT: 25.536 min Scan# 3621

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

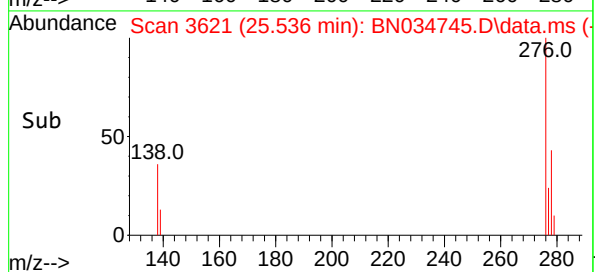
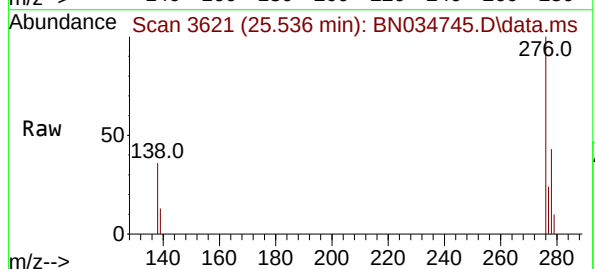
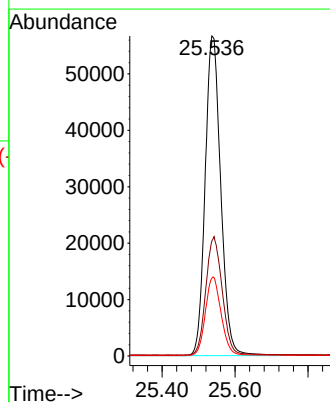
Tgt Ion:276 Resp: 168535

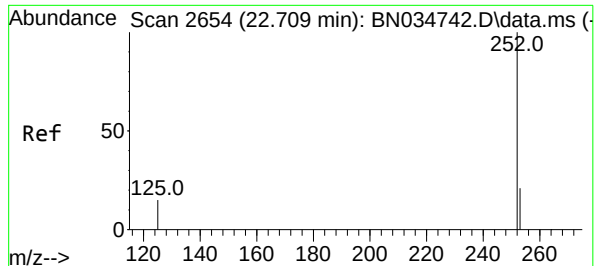
Ion Ratio Lower Upper

276 100

138 38.8 31.5 47.3

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 3.217 ng

RT: 22.712 min Scan# 2655

Delta R.T. 0.003 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

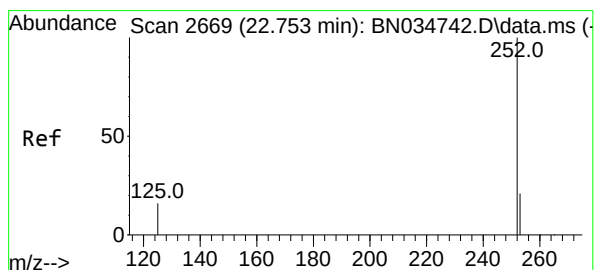
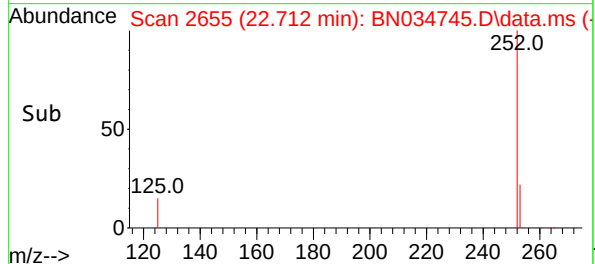
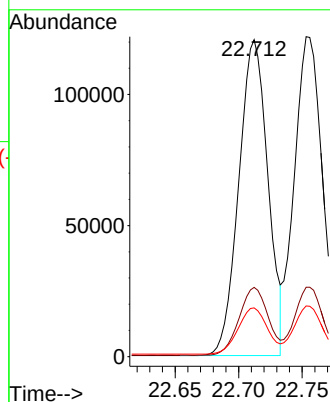
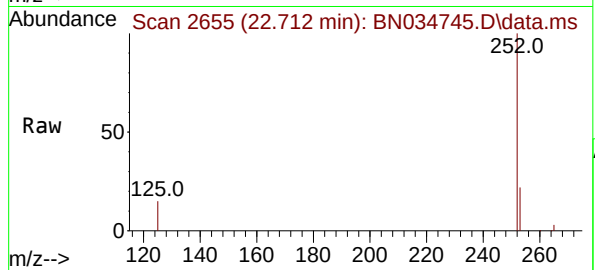
Tgt Ion:252 Resp: 191690

Ion Ratio Lower Upper

252 100

253 21.9 19.7 29.5

125 15.4 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 3.269 ng

RT: 22.753 min Scan# 2669

Delta R.T. 0.000 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

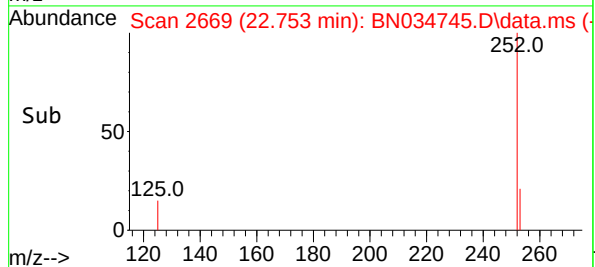
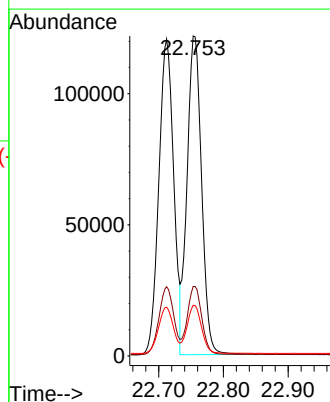
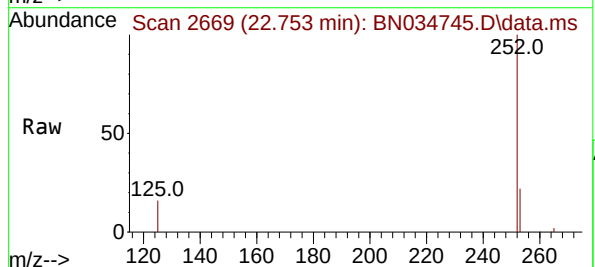
Tgt Ion:252 Resp: 190108

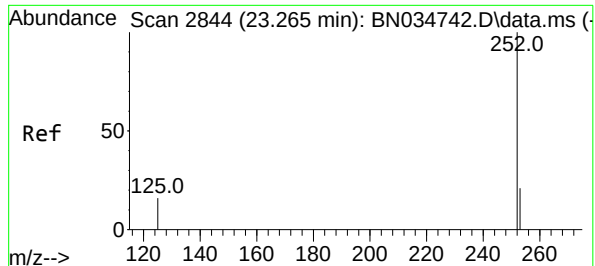
Ion Ratio Lower Upper

252 100

253 21.7 19.8 29.6

125 15.9 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 3.218 ng

RT: 23.268 min Scan# 2844

Delta R.T. 0.003 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

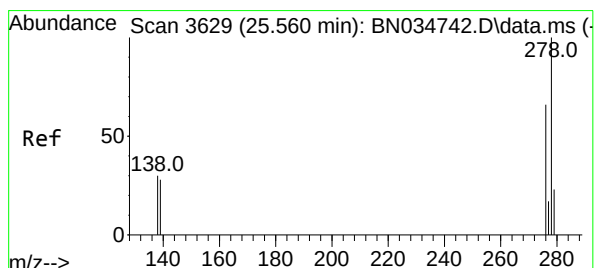
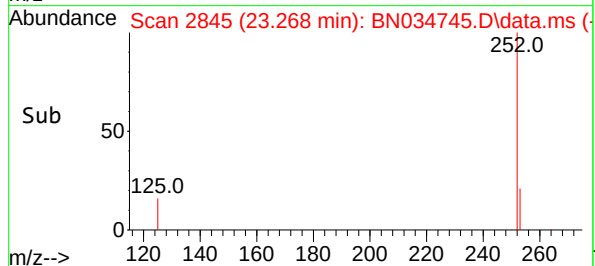
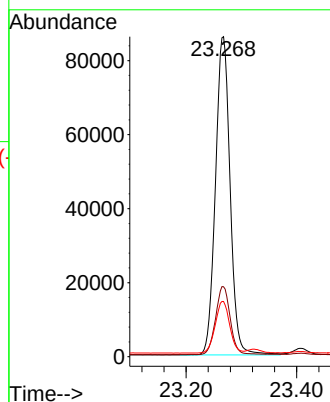
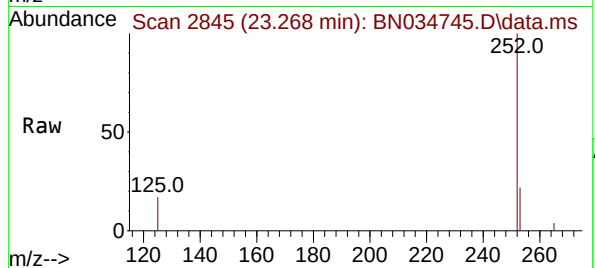
Tgt Ion:252 Resp: 158240

Ion Ratio Lower Upper

252 100

253 21.8 20.7 31.1

125 17.2 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 3.095 ng

RT: 25.557 min Scan# 3628

Delta R.T. -0.003 min

Lab File: BN034745.D

Acq: 30 Oct 2024 12:20

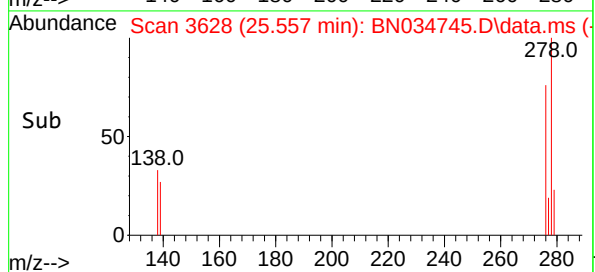
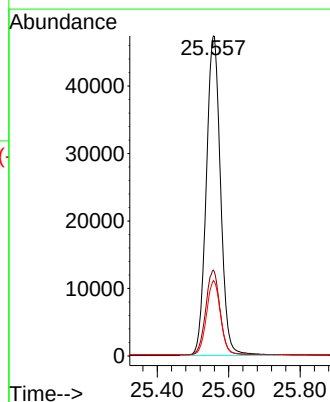
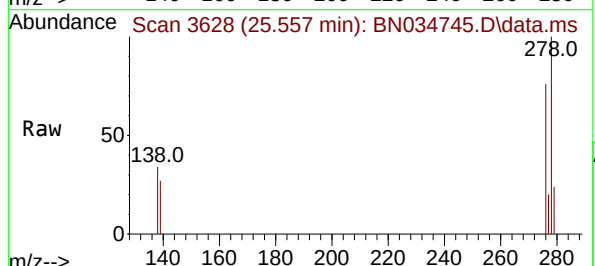
Tgt Ion:278 Resp: 131448

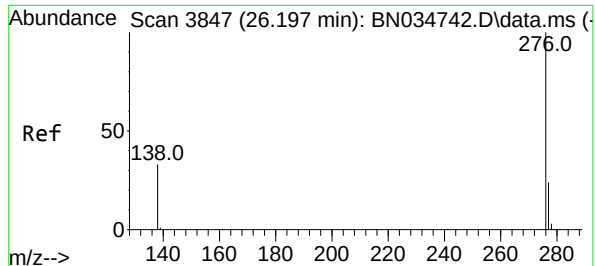
Ion Ratio Lower Upper

278 100

139 26.9 24.9 37.3

279 23.5 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 3.057 ng

RT: 26.194 min Scan# 3846

Delta R.T. -0.003 min

Lab File: BN034745.D

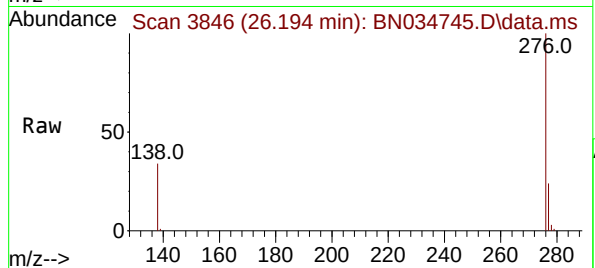
Acq: 30 Oct 2024 12:20

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



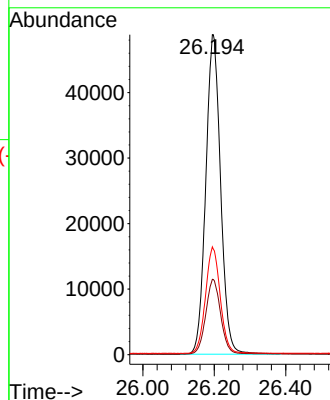
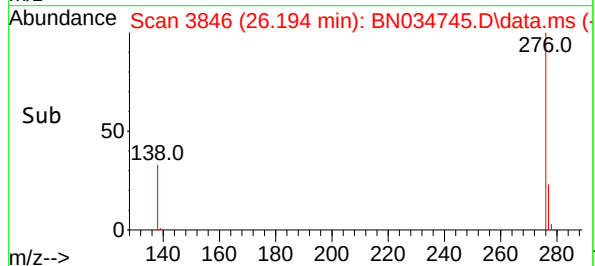
Tgt Ion:276 Resp: 140292

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

138 33.7 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034746.D
 Acq On : 30 Oct 2024 12:56
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Oct 30 13:33:55 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

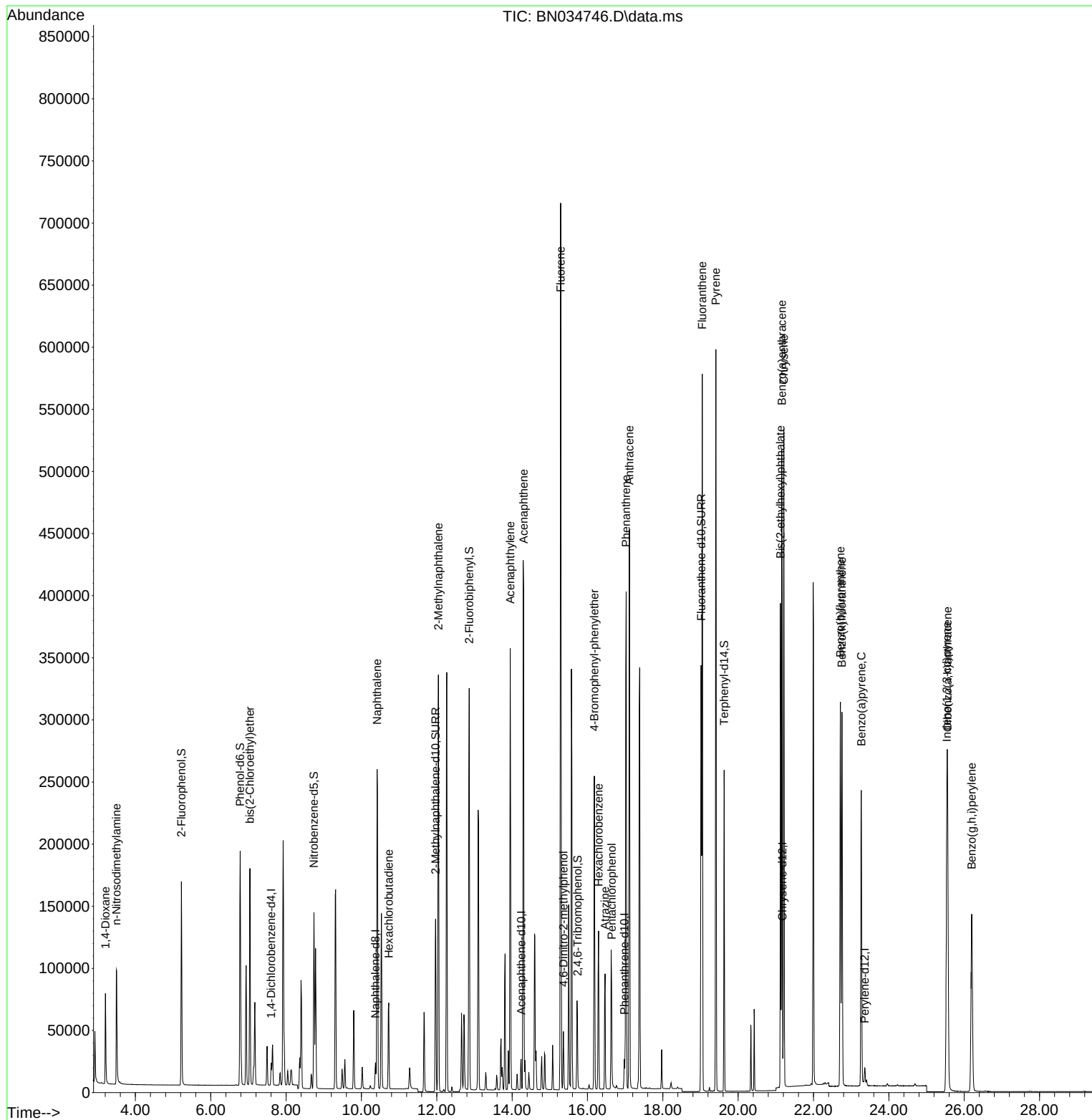
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	8470	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	25305	0.400	ng	0.00
13) Acenaphthene-d10	14.240	164	13960	0.400	ng	0.00
19) Phenanthrene-d10	16.977	188	30155	0.400	ng	# 0.00
29) Chrysene-d12	21.176	240	20145	0.400	ng	# 0.00
35) Perylene-d12	23.362	264	17397	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	122942	4.792	ng	0.00
5) Phenol-d6	6.780	99	164353	4.930	ng	0.00
8) Nitrobenzene-d5	8.739	82	102200	5.139	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	184627	5.041	ng	0.00
14) 2,4,6-Tribromophenol	15.735	330	39115	5.672	ng	0.00
15) 2-Fluorobiphenyl	12.861	172	272449	4.955	ng	0.00
27) Fluoranthene-d10	19.017	212	353376	4.996	ng	0.00
31) Terphenyl-d14	19.626	244	206973	4.784	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.205	88	42868	4.617	ng	95
3) n-Nitrosodimethylamine	3.494	42	51876	4.956	ng	99
6) bis(2-Chloroethyl)ether	7.040	93	118985	4.890	ng	100
9) Naphthalene	10.415	128	343978	4.915	ng	99
10) Hexachlorobutadiene	10.724	225	56061	4.864	ng	# 99
12) 2-Methylnaphthalene	12.041	142	229277	5.010	ng	100
16) Acenaphthylene	13.951	152	362458	5.175	ng	100
17) Acenaphthene	14.304	154	238786	5.117	ng	97
18) Fluorene	15.287	166	288411	4.959	ng	100
20) 4,6-Dinitro-2-methylph...	15.362	198	28489	5.112	ng	# 78
21) 4-Bromophenyl-phenylether	16.182	248	86486	4.956	ng	# 82
22) Hexachlorobenzene	16.294	284	94273	4.826	ng	99
23) Atrazine	16.468	200	75090	4.999	ng	# 92
24) Pentachlorophenol	16.641	266	52103	6.194	ng	98
25) Phenanthrene	17.026	178	436521	4.922	ng	100
26) Anthracene	17.113	178	419798	5.058	ng	100
28) Fluoranthene	19.045	202	483565	4.947	ng	100
30) Pyrene	19.408	202	500345	4.751	ng	100
32) Benzo(a)anthracene	21.158	228	404286	5.042	ng	99
33) Chrysene	21.212	228	387398	4.934	ng	100
34) Bis(2-ethylhexyl)phtha...	21.122	149	337998	5.041	ng	99
36) Indeno(1,2,3-cd)pyrene	25.540	276	309042	4.829	ng	99
37) Benzo(b)fluoranthene	22.713	252	354898	5.067	ng	# 91
38) Benzo(k)fluoranthene	22.754	252	345310	5.053	ng	# 90
39) Benzo(a)pyrene	23.268	252	294657	5.098	ng	# 87
40) Dibenzo(a,h)anthracene	25.558	278	240649	4.822	ng	93
41) Benzo(g,h,i)perylene	26.198	276	254439	4.718	ng	96

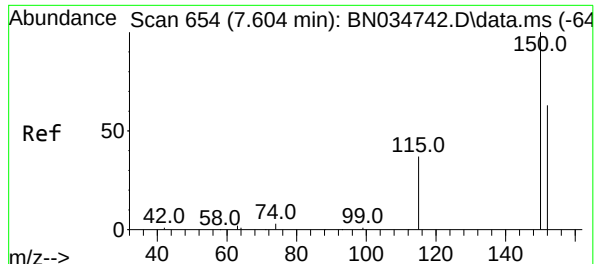
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034746.D
Acq On : 30 Oct 2024 12:56
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Oct 30 13:33:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

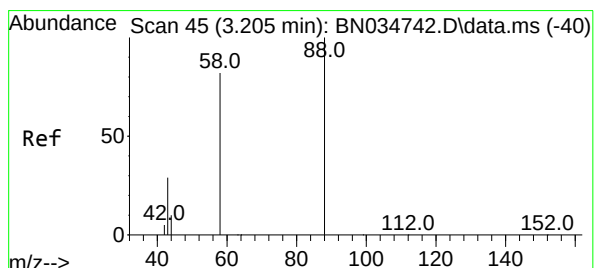
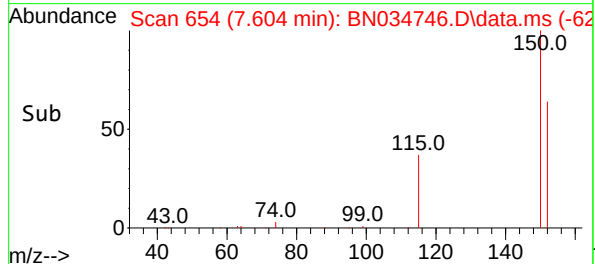
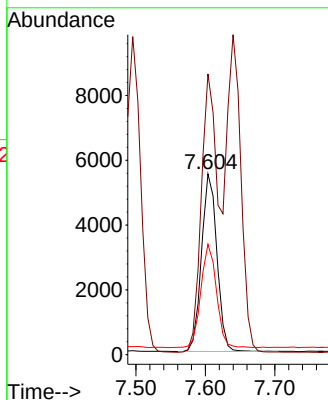
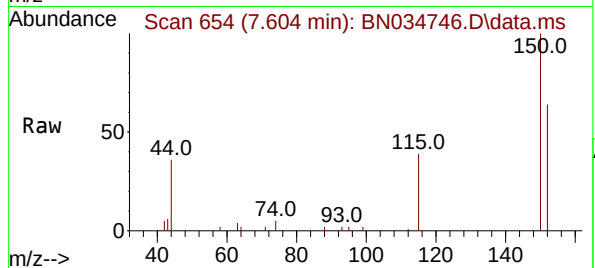




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

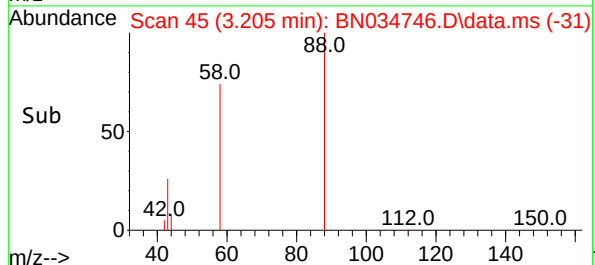
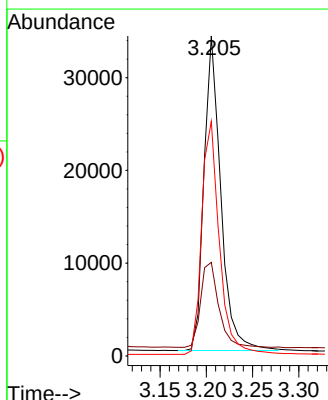
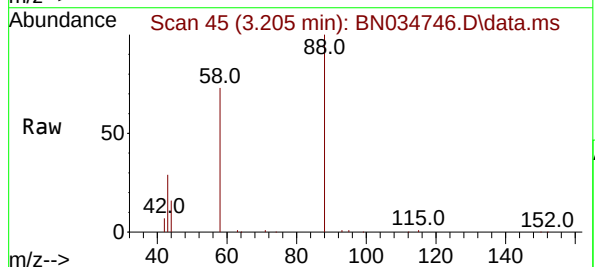
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

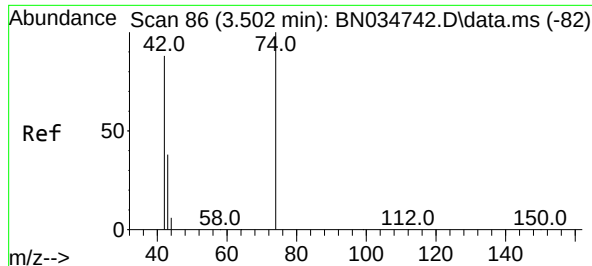
Tgt Ion:152 Resp: 8470
Ion Ratio Lower Upper
152 100
150 155.3 124.9 187.3
115 61.1 50.2 75.2



#2
1,4-Dioxane
Concen: 4.617 ng
RT: 3.205 min Scan# 45
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion: 88 Resp: 42868
Ion Ratio Lower Upper
88 100
43 29.1 26.7 40.1
58 77.7 59.3 88.9

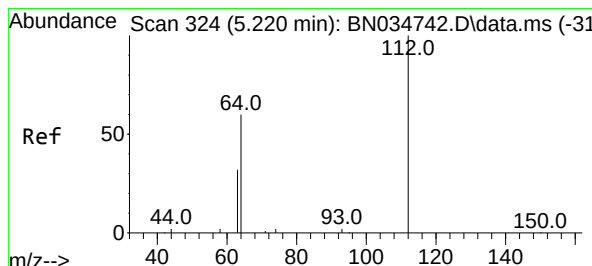
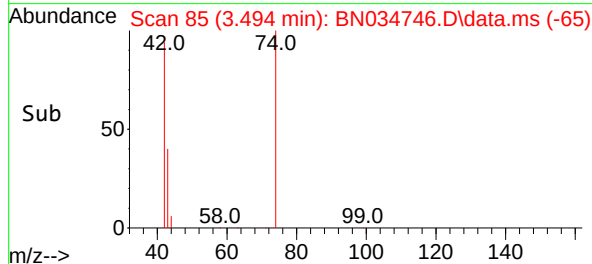
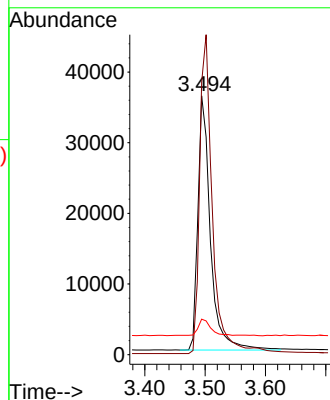
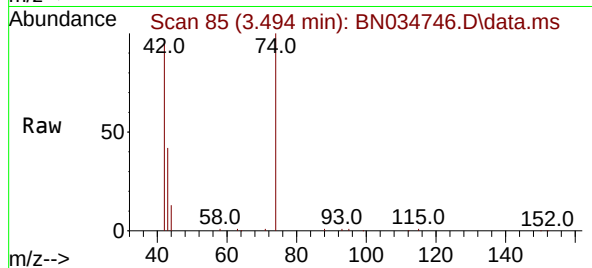




#3
n-Nitrosodimethylamine
Concen: 4.956 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

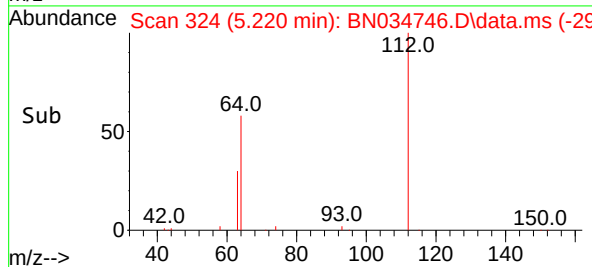
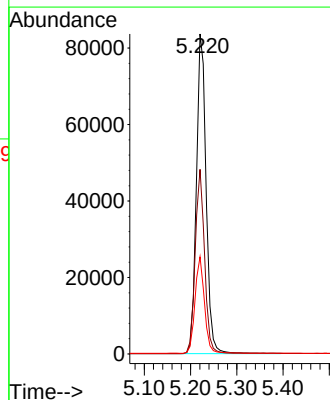
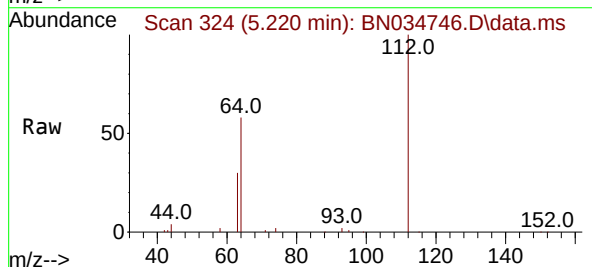
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

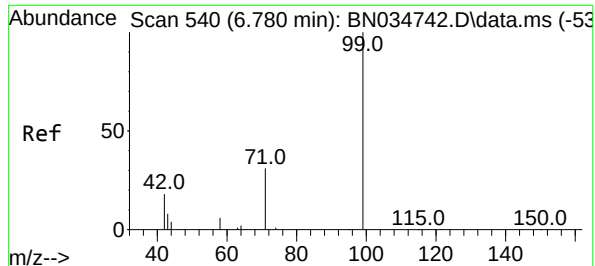
Tgt Ion: 42 Resp: 51876
Ion Ratio Lower Upper
42 100
74 128.4 103.1 154.7
44 6.8 6.7 10.1



#4
2-Fluorophenol
Concen: 4.792 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion: 112 Resp: 122942
Ion Ratio Lower Upper
112 100
64 55.9 44.9 67.3
63 29.3 23.5 35.3

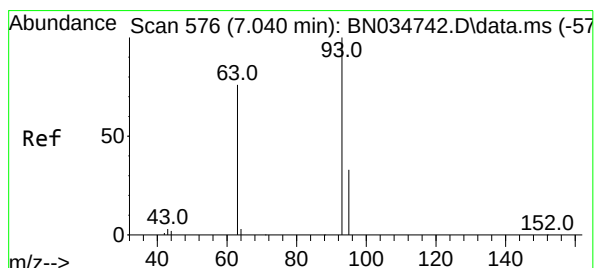
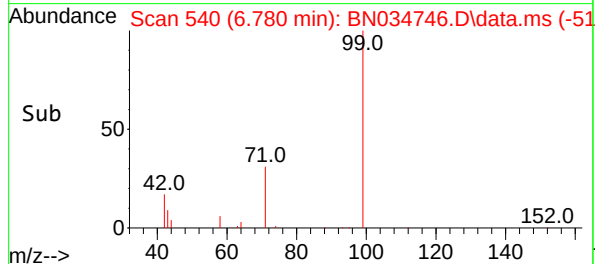
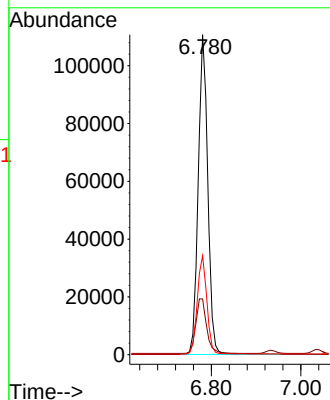
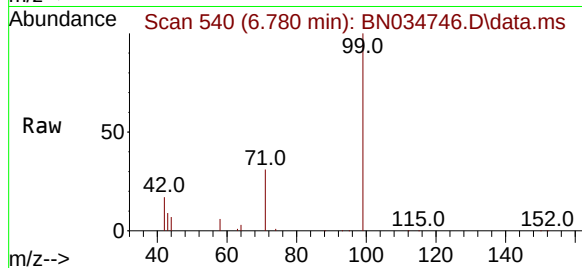




#5
Phenol-d6
Concen: 4.930 ng
RT: 6.780 min Scan# 540
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

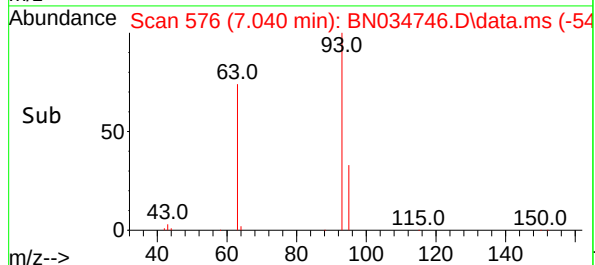
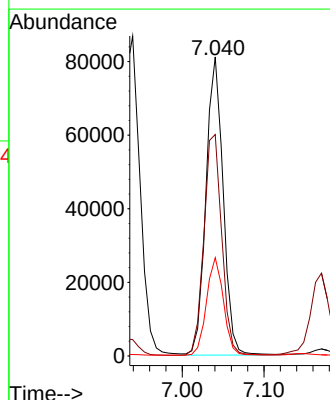
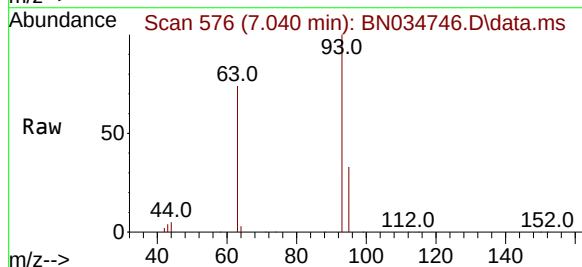
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

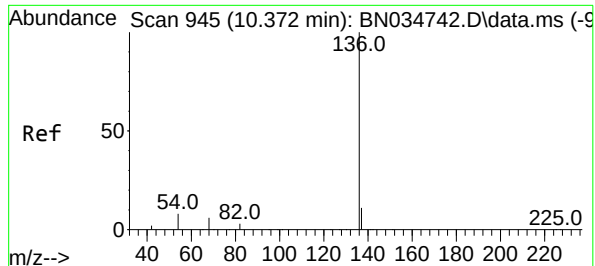
Tgt Ion: 99 Resp: 164353
Ion Ratio Lower Upper
99 100
42 19.2 15.9 23.9
71 30.9 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 4.890 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion: 93 Resp: 118985
Ion Ratio Lower Upper
93 100
63 77.0 61.2 91.8
95 32.2 25.8 38.8

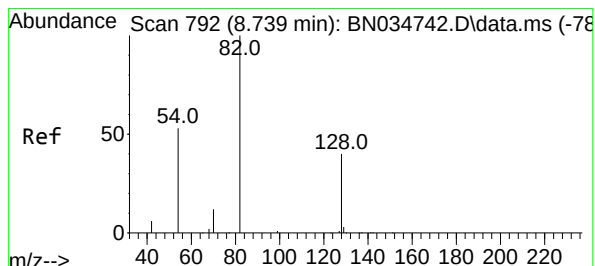
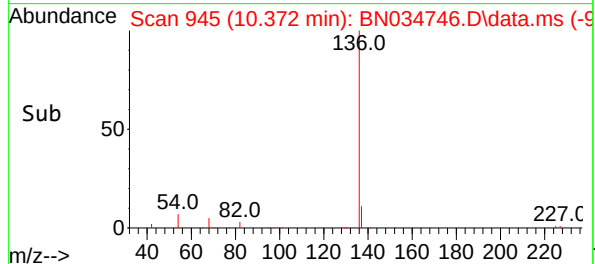
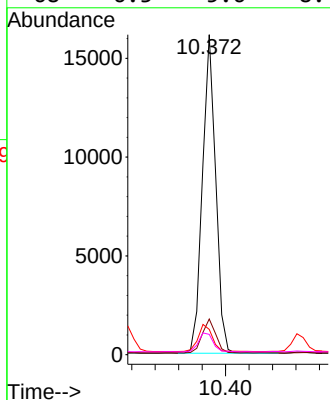
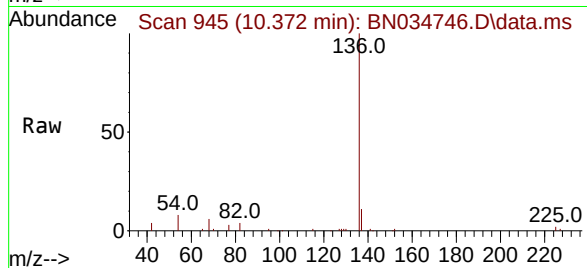




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

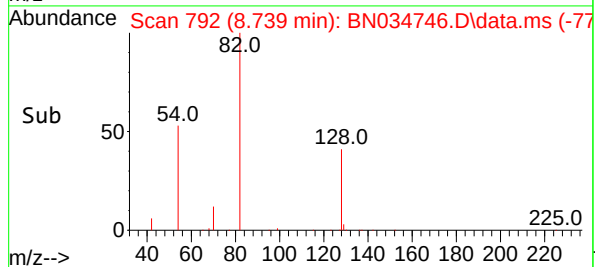
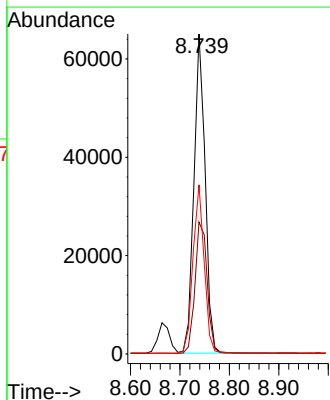
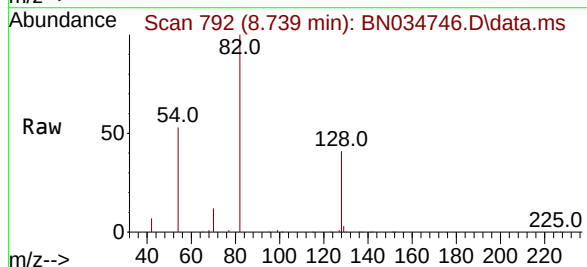
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

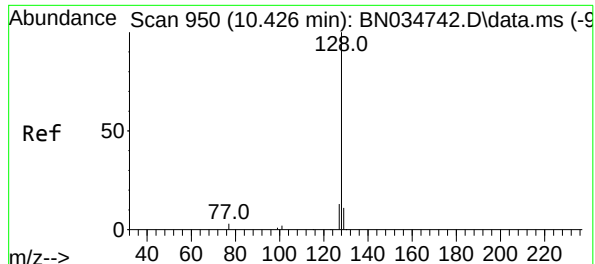
Tgt Ion:	136	Resp:	25305
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.2	13.8
54	7.9	7.0	10.4
68	6.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 5.139 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:	82	Resp:	102200
Ion Ratio	Lower	Upper	
82	100		
128	41.2	33.7	50.5
54	52.8	44.4	66.6

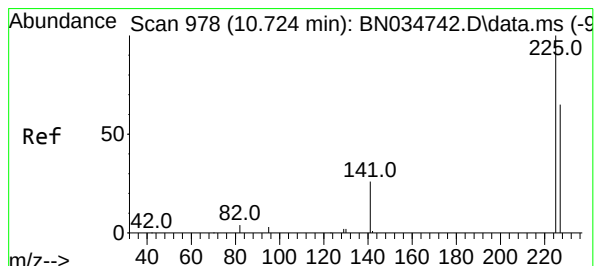
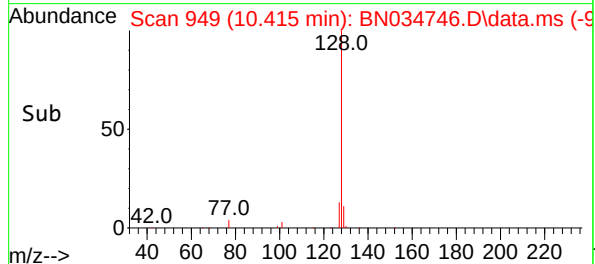
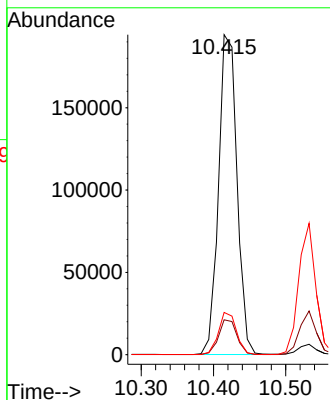
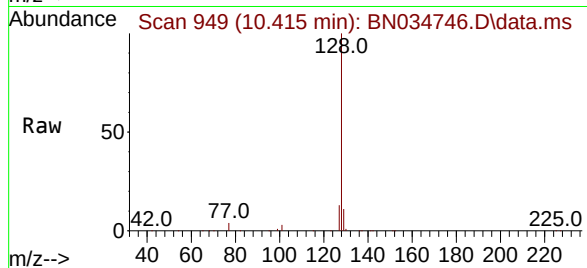




#9
Naphthalene
Concen: 4.915 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

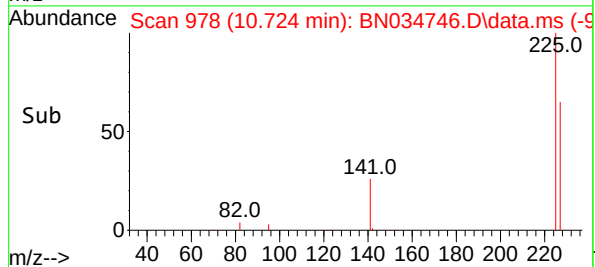
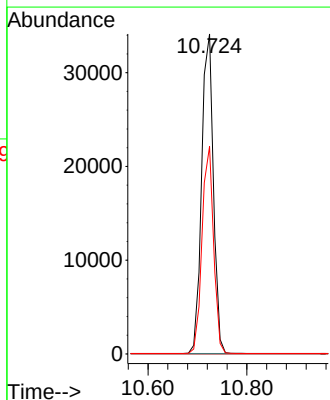
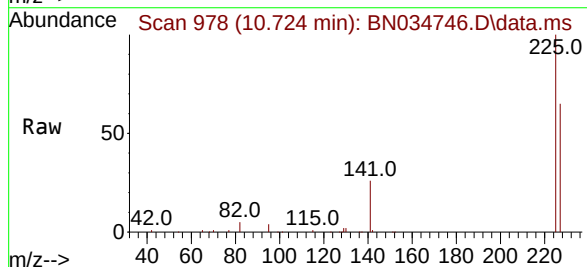
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

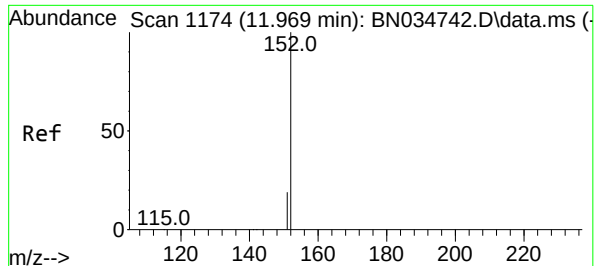
Tgt Ion:128 Resp: 343978
Ion Ratio Lower Upper
128 100
129 10.9 9.4 14.0
127 13.2 10.6 15.8



#10
Hexachlorobutadiene
Concen: 4.864 ng
RT: 10.724 min Scan# 978
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:225 Resp: 56061
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2

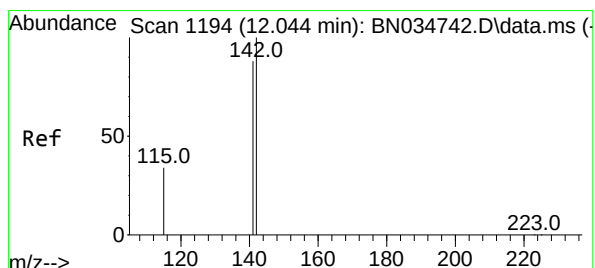
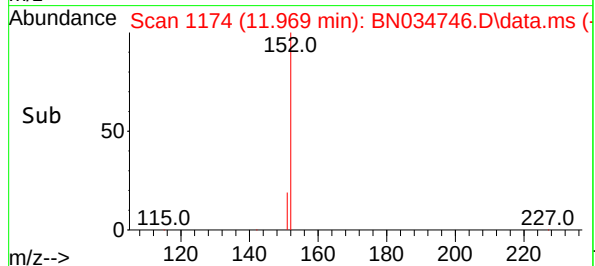
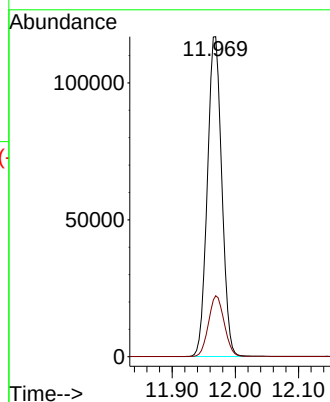
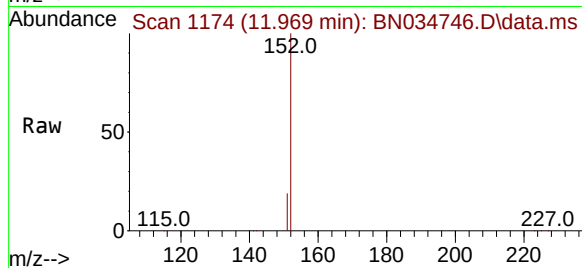




#11
2-Methylnaphthalene-d10
Concen: 5.041 ng
RT: 11.969 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

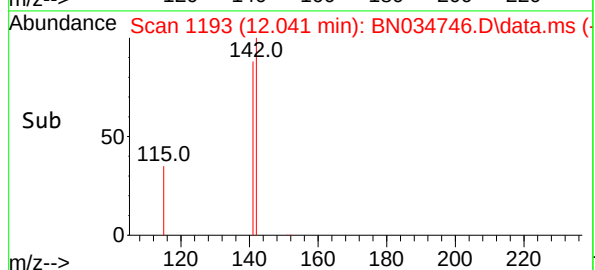
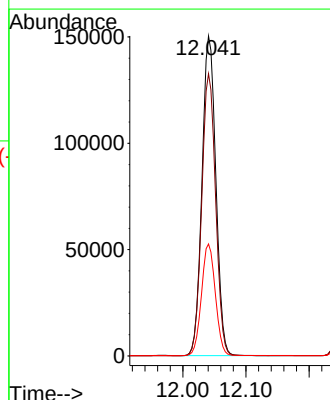
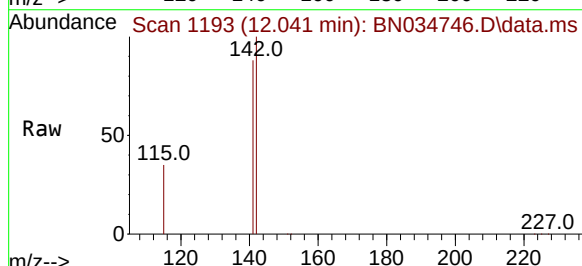
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

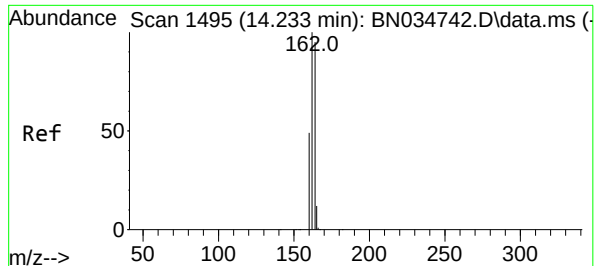
Tgt Ion:152 Resp: 184627
Ion Ratio Lower Upper
152 100
151 20.7 16.6 24.8



#12
2-Methylnaphthalene
Concen: 5.010 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:142 Resp: 229277
Ion Ratio Lower Upper
142 100
141 88.2 70.6 106.0
115 35.0 28.6 42.8

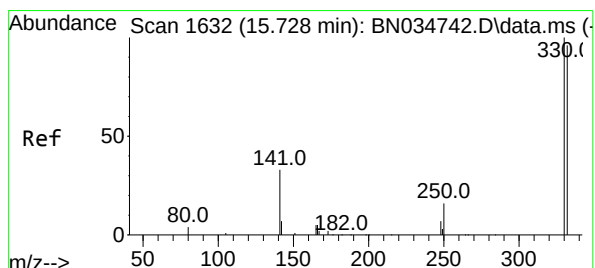
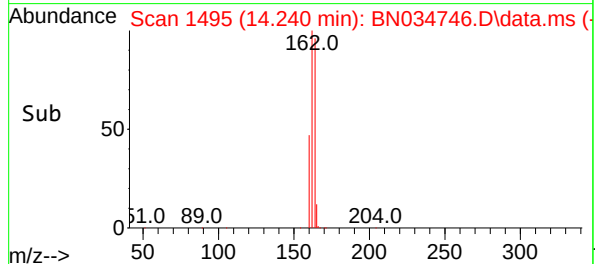
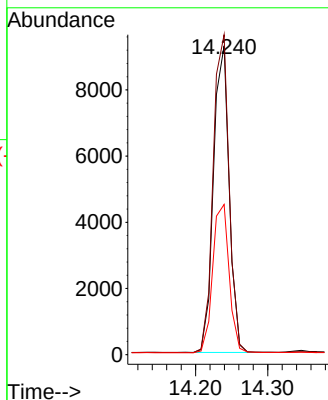
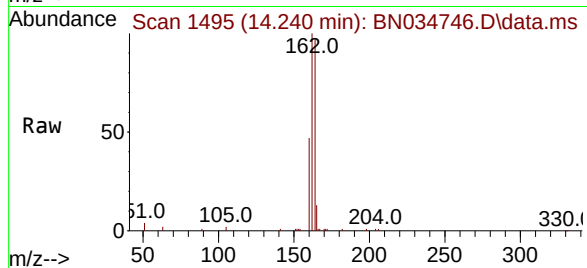




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.240 min Scan# 1495
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

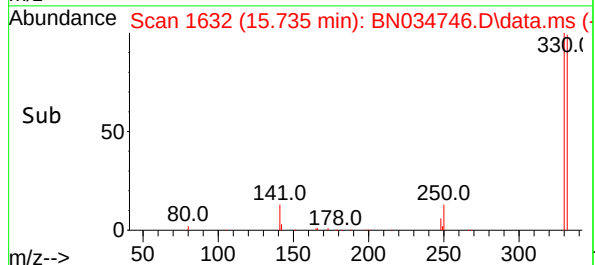
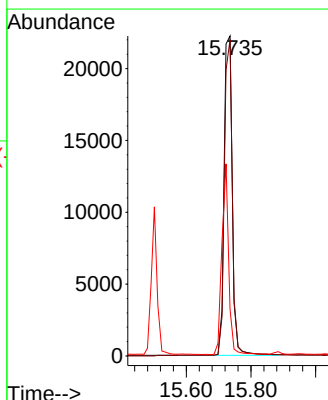
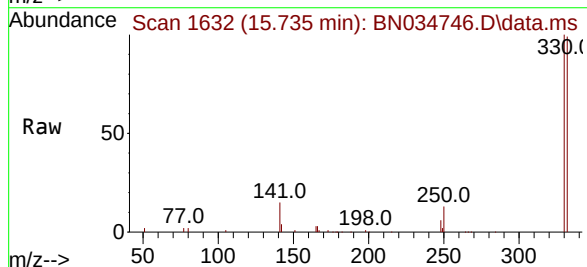
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

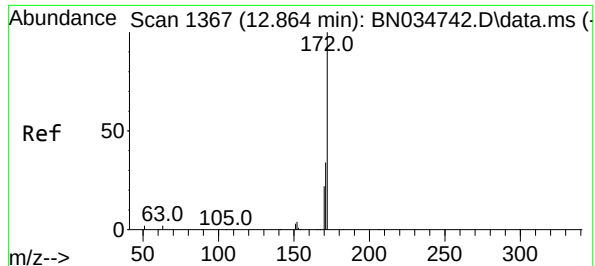
Tgt Ion:164 Resp: 13960
Ion Ratio Lower Upper
164 100
162 103.6 84.3 126.5
160 48.6 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 5.672 ng
RT: 15.735 min Scan# 1632
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:330 Resp: 39115
Ion Ratio Lower Upper
330 100
332 95.7 77.8 116.6
141 49.7 41.0 61.4

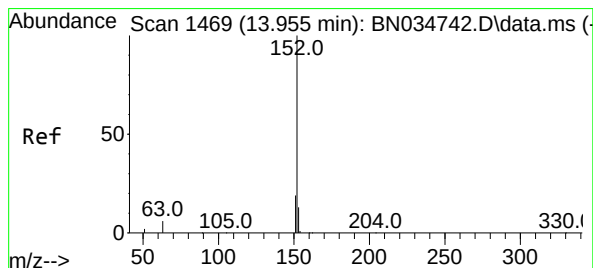
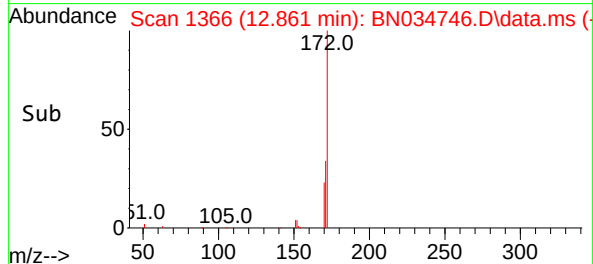
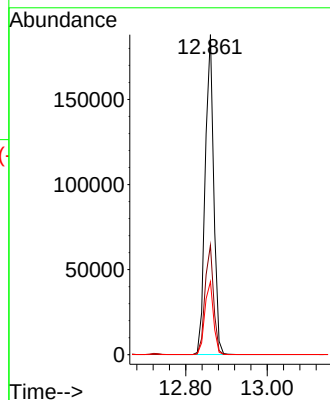
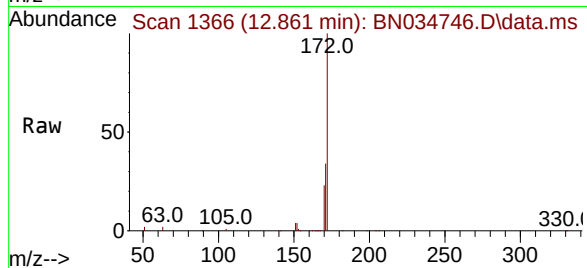




#15
2-Fluorobiphenyl
Concen: 4.955 ng
RT: 12.861 min Scan# 1367
Delta R.T. -0.004 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

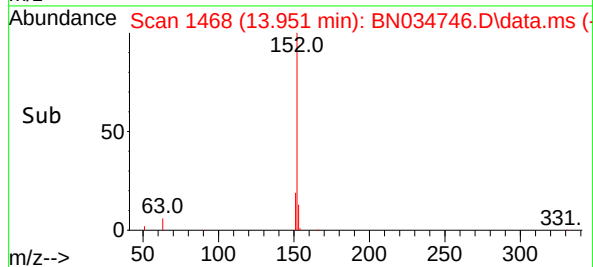
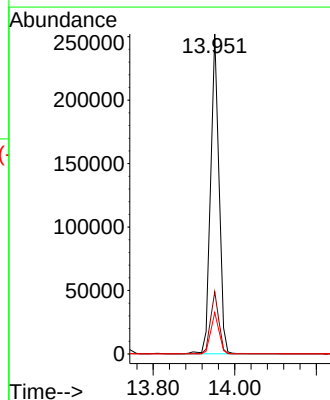
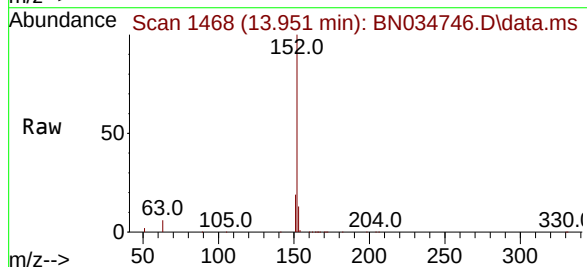
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

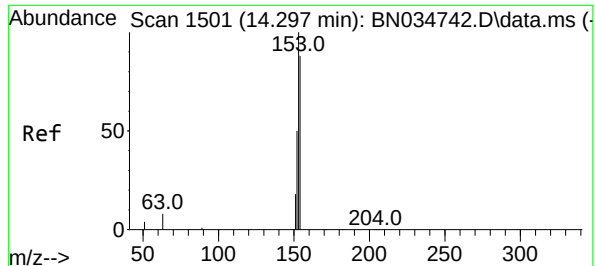
Tgt Ion:172 Resp: 272449
Ion Ratio Lower Upper
172 100
171 34.2 27.2 40.8
170 22.8 18.0 27.0



#16
Acenaphthylene
Concen: 5.175 ng
RT: 13.951 min Scan# 1468
Delta R.T. -0.004 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:152 Resp: 362458
Ion Ratio Lower Upper
152 100
151 19.3 15.4 23.2
153 12.9 10.2 15.4





#17

Acenaphthene

Concen: 5.117 ng

RT: 14.304 min Scan# 1501

Delta R.T. 0.007 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

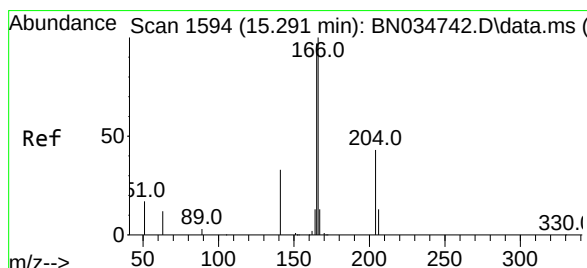
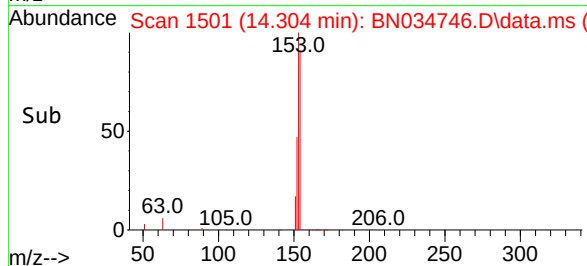
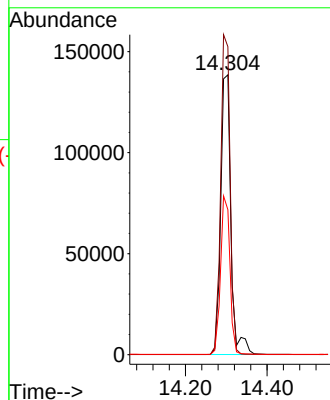
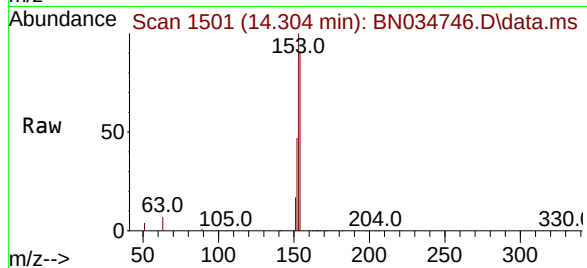
Tgt Ion:154 Resp: 238786

Ion Ratio Lower Upper

154 100

153 106.9 87.8 131.6

152 52.2 44.6 67.0



#18

Fluorene

Concen: 4.959 ng

RT: 15.287 min Scan# 1593

Delta R.T. -0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

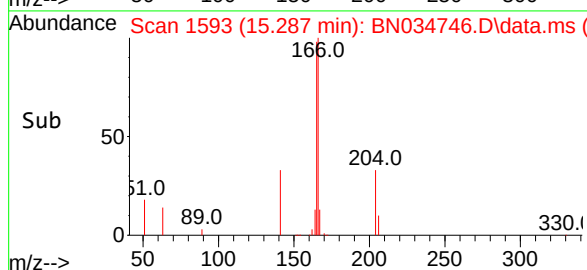
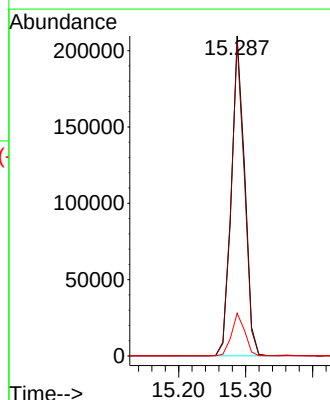
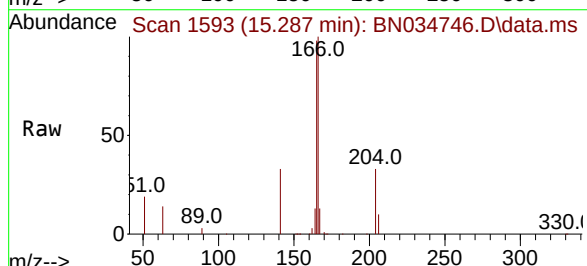
Tgt Ion:166 Resp: 288411

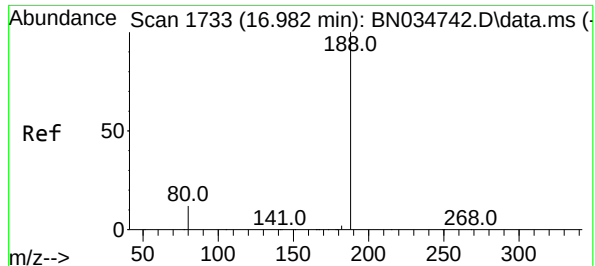
Ion Ratio Lower Upper

166 100

165 97.9 78.5 117.7

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.977 min Scan# 1

Delta R.T. -0.006 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

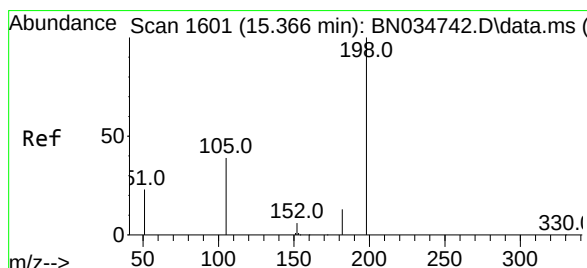
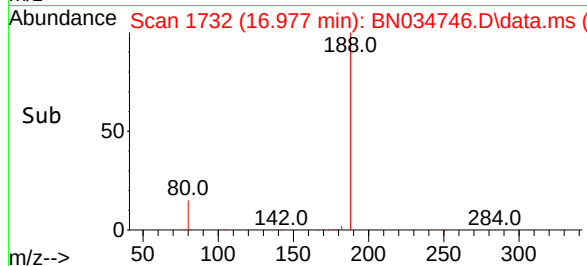
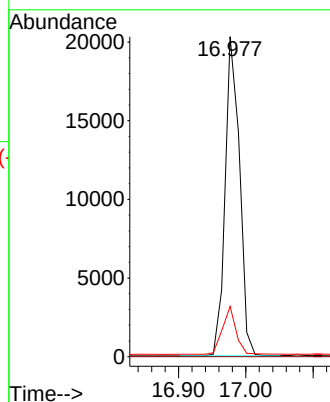
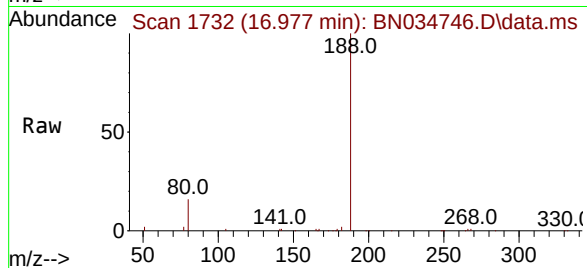
Tgt Ion:188 Resp: 30155

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 9.8 14.6#



#20

4,6-Dinitro-2-methylphenol

Concen: 5.112 ng

RT: 15.362 min Scan# 1600

Delta R.T. -0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

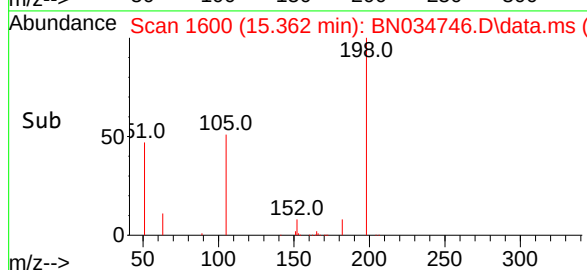
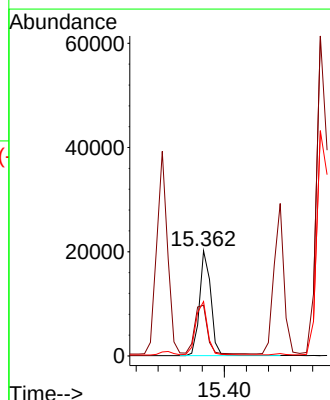
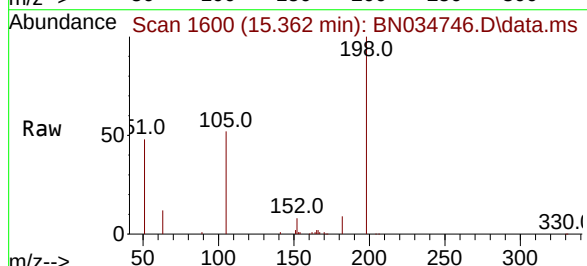
Tgt Ion:198 Resp: 28489

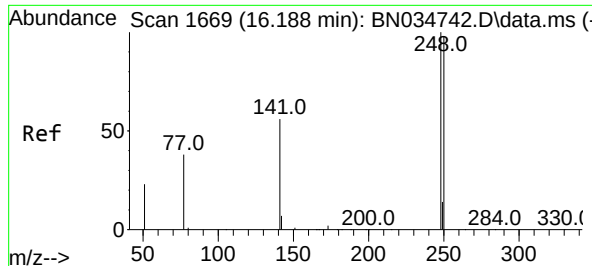
Ion Ratio Lower Upper

198 100

51 48.2 58.0 87.0#

105 51.7 49.1 73.7





#21

4-Bromophenyl-phenylether

Concen: 4.956 ng

RT: 16.182 min Scan# 1668

Delta R.T. -0.006 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

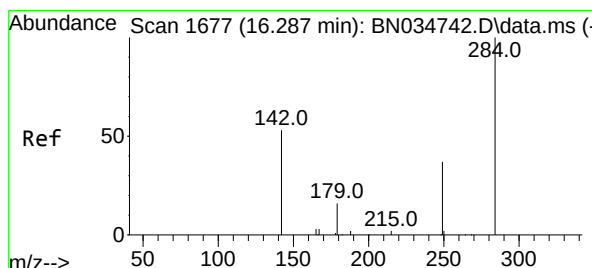
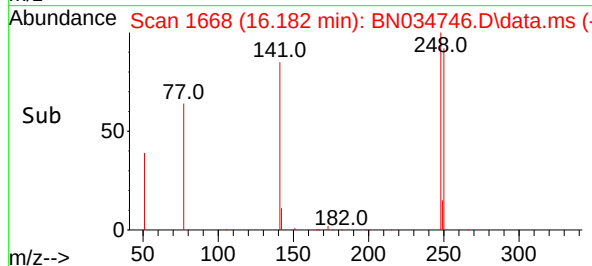
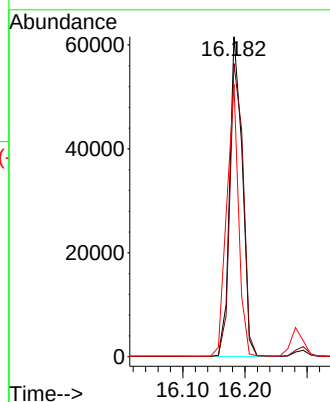
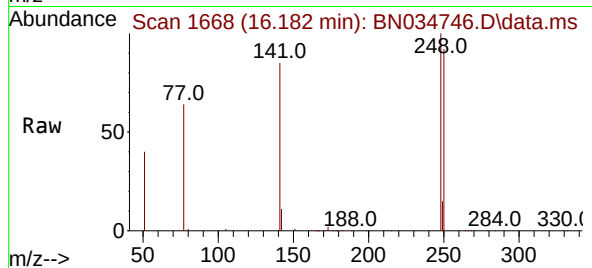
Tgt Ion:248 Resp: 86486

Ion Ratio Lower Upper

248 100

250 91.6 78.7 118.1

141 85.2 46.4 69.6#



#22

Hexachlorobenzene

Concen: 4.826 ng

RT: 16.294 min Scan# 1677

Delta R.T. 0.007 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

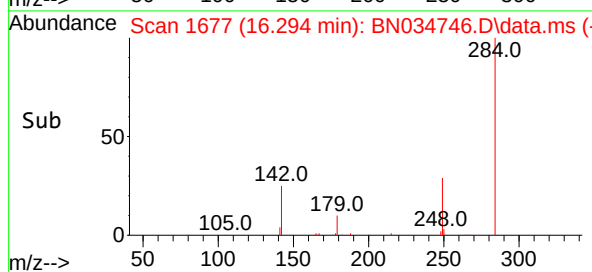
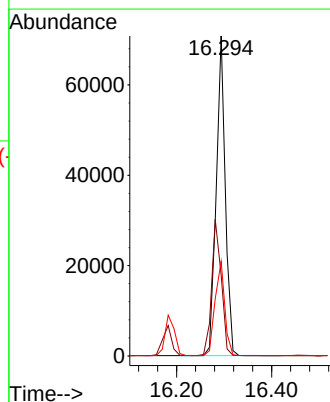
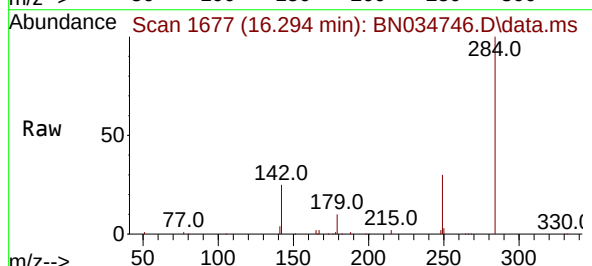
Tgt Ion:284 Resp: 94273

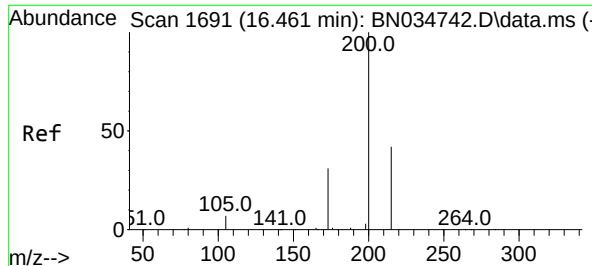
Ion Ratio Lower Upper

284 100

142 45.0 35.4 53.0

249 31.4 25.7 38.5

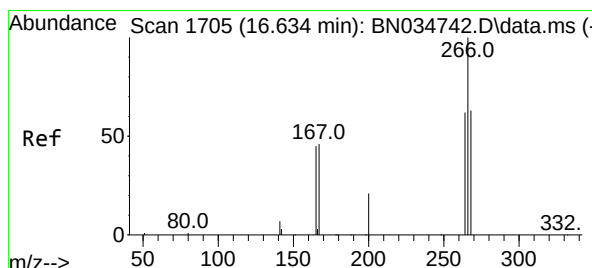
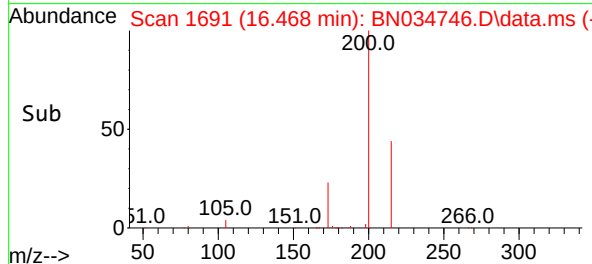
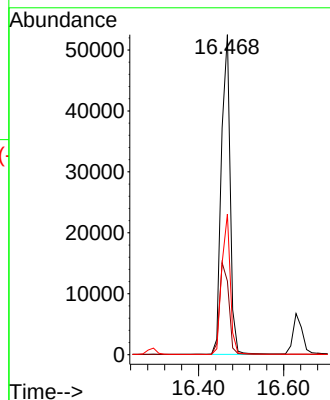
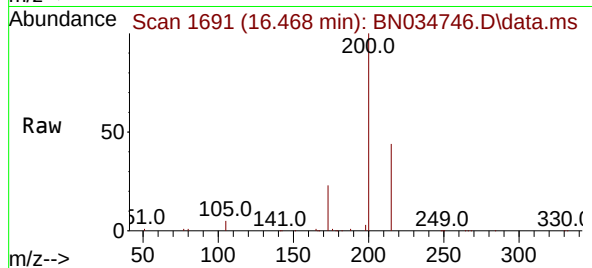




#23
Atrazine
Concen: 4.999 ng
RT: 16.468 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

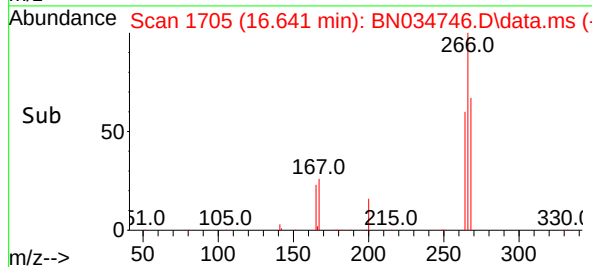
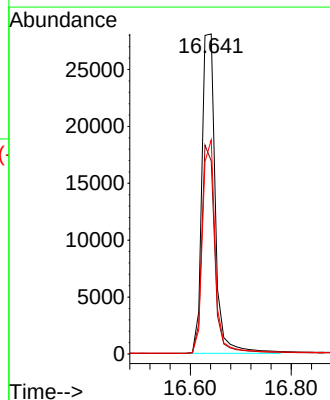
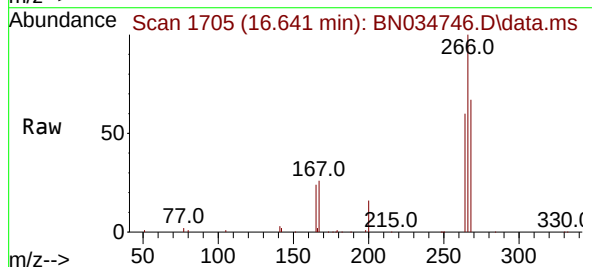
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

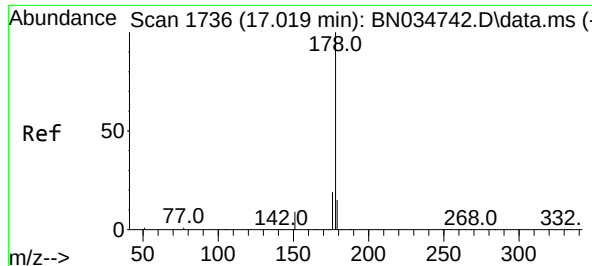
Tgt Ion:200 Resp: 75090
Ion Ratio Lower Upper
200 100
173 23.0 25.8 38.6#
215 44.0 34.2 51.4



#24
Pentachlorophenol
Concen: 6.194 ng
RT: 16.641 min Scan# 1705
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:266 Resp: 52103
Ion Ratio Lower Upper
266 100
264 62.8 48.7 73.1
268 63.7 50.2 75.4

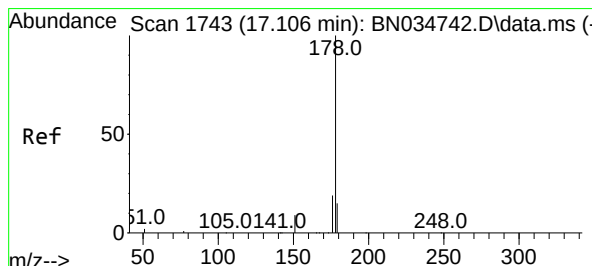
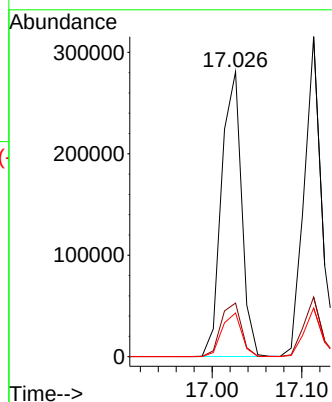
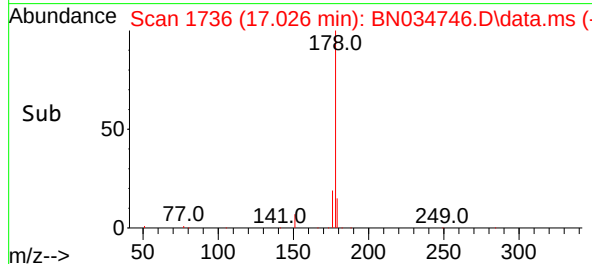
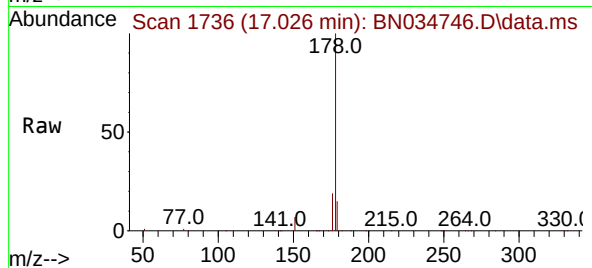




#25
Phenanthrene
Concen: 4.922 ng
RT: 17.026 min Scan# 1736
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

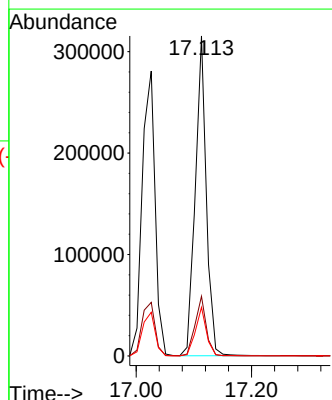
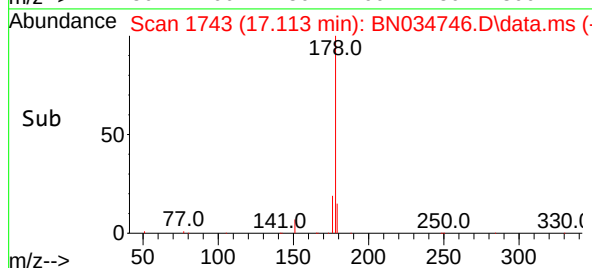
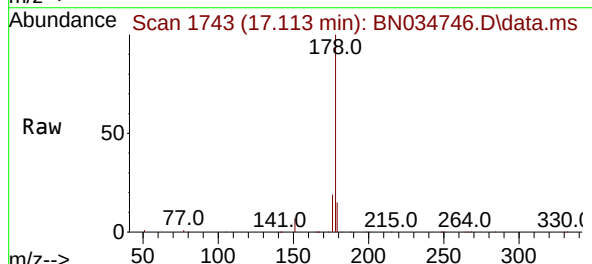
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

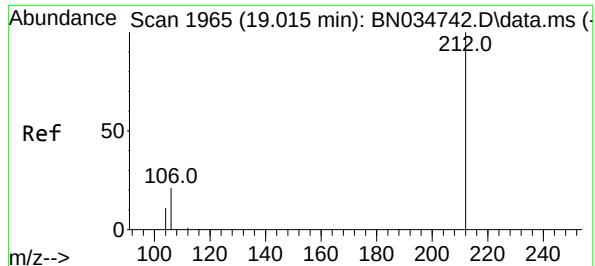
Tgt Ion:178 Resp: 436521
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 5.058 ng
RT: 17.113 min Scan# 1743
Delta R.T. 0.007 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:178 Resp: 419798
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.2 18.2





#27

Fluoranthene-d10

Concen: 4.996 ng

RT: 19.017 min Scan# 1965

Delta R.T. 0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

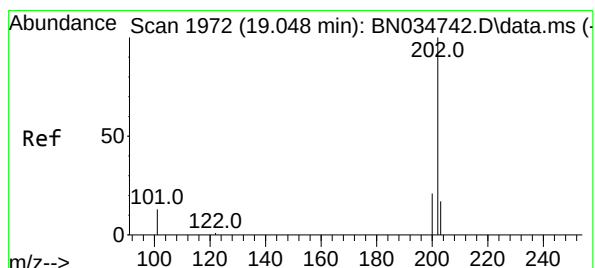
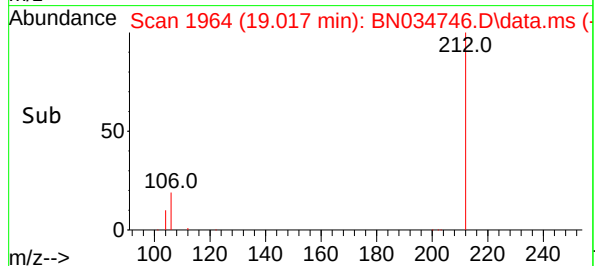
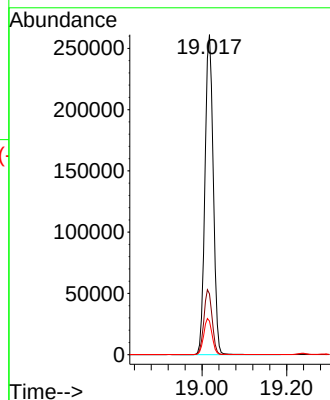
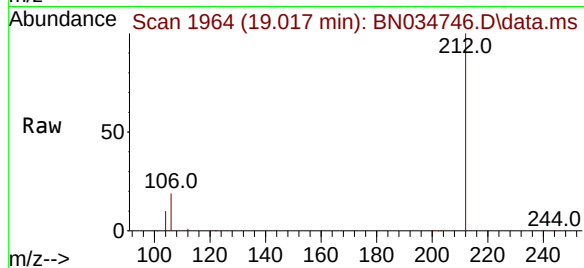
Tgt Ion:212 Resp: 353376

Ion Ratio Lower Upper

212 100

106 20.1 16.1 24.1

104 11.3 9.2 13.8



#28

Fluoranthene

Concen: 4.947 ng

RT: 19.045 min Scan# 1970

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

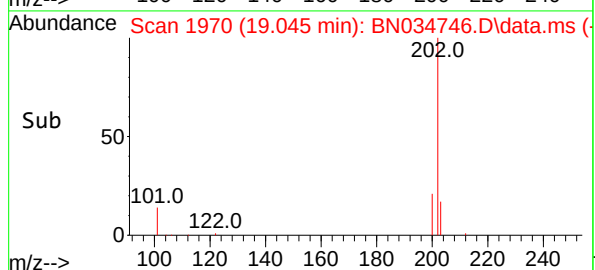
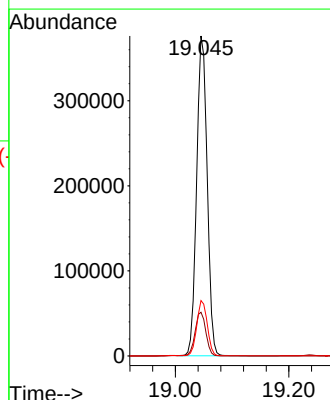
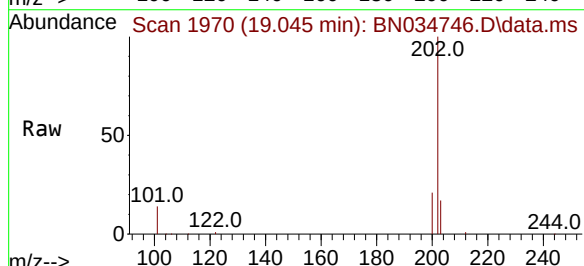
Tgt Ion:202 Resp: 483565

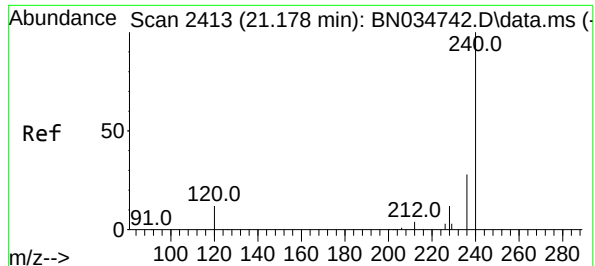
Ion Ratio Lower Upper

202 100

101 14.1 11.4 17.0

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.176 min Scan# 2413

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

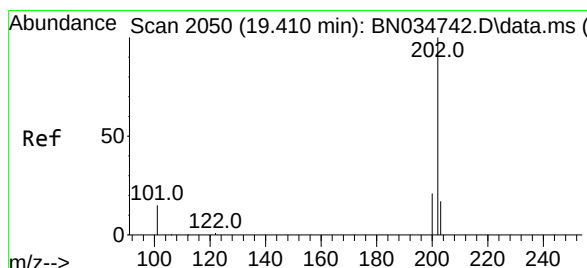
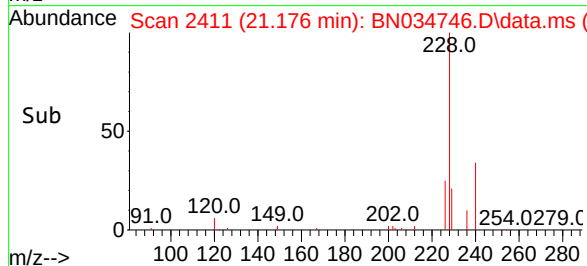
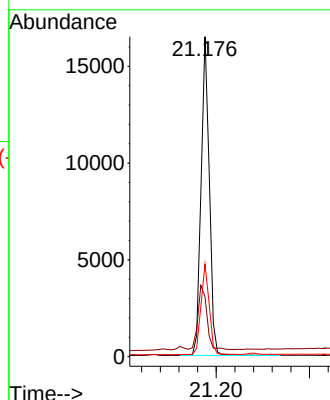
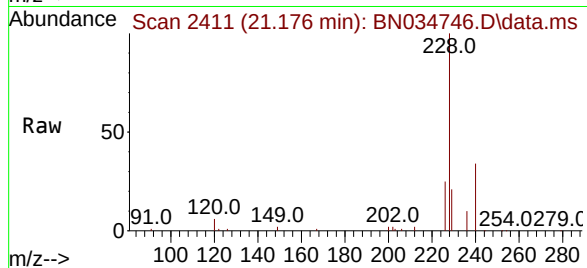
Tgt Ion:240 Resp: 20145

Ion Ratio Lower Upper

240 100

120 18.8 11.5 17.3#

236 28.9 23.2 34.8



#30

Pyrene

Concen: 4.751 ng

RT: 19.408 min Scan# 2048

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

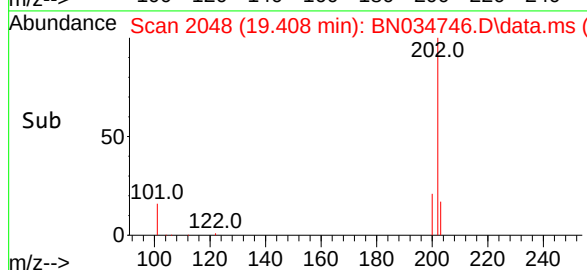
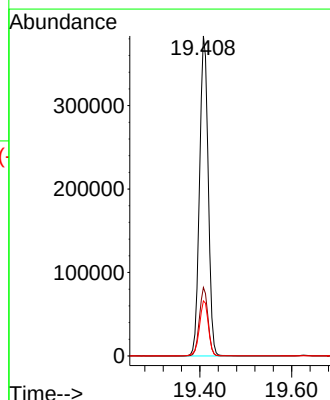
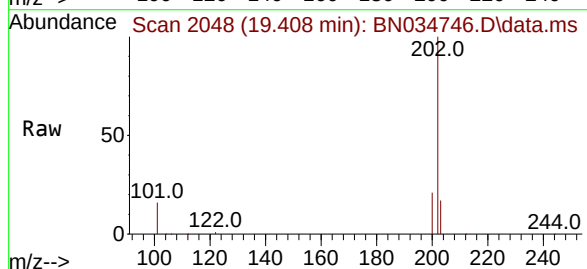
Tgt Ion:202 Resp: 500345

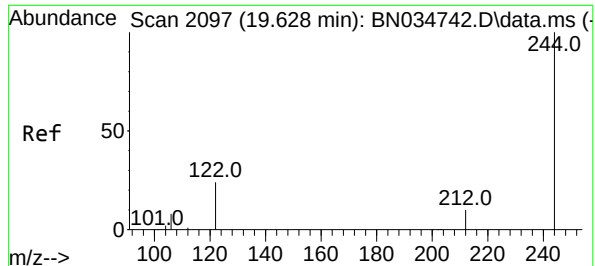
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.8 14.2 21.2

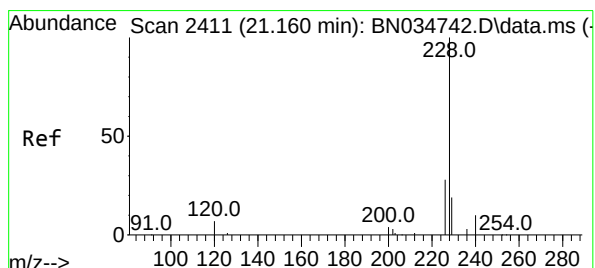
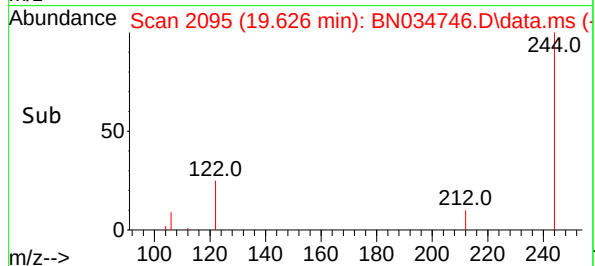
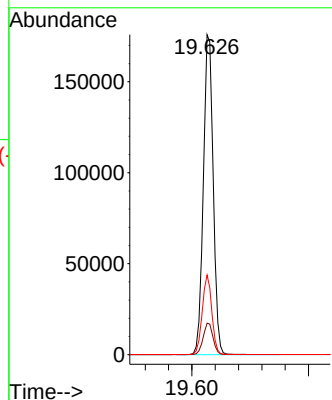
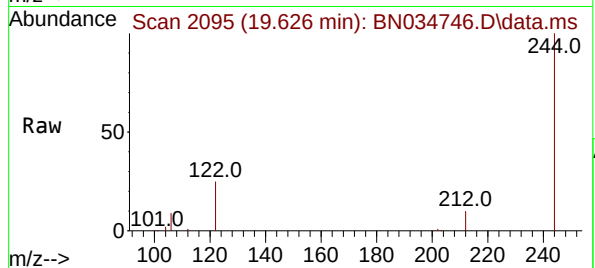




#31
Terphenyl-d14
Concen: 4.784 ng
RT: 19.626 min Scan# 2095
Delta R.T. -0.002 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

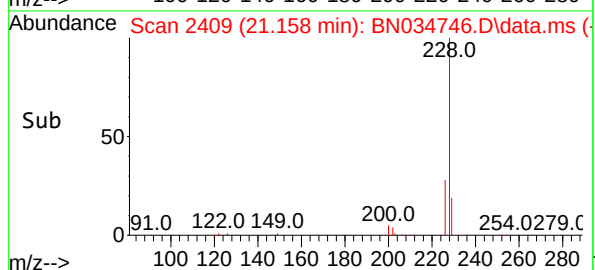
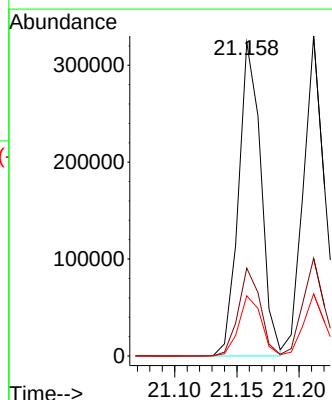
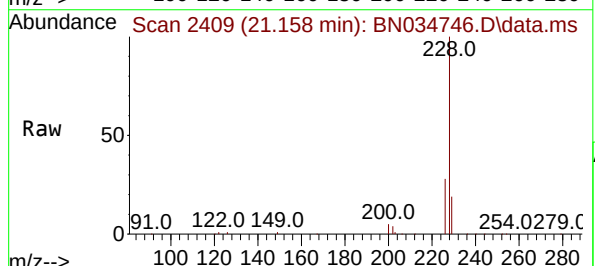
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

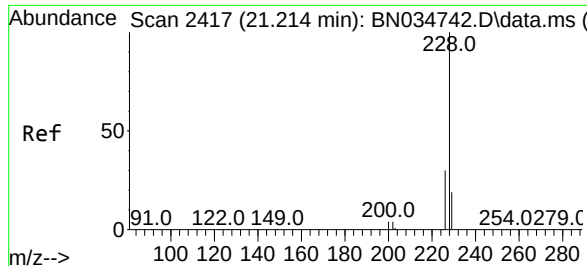
Tgt Ion:244 Resp: 206973
Ion Ratio Lower Upper
244 100
212 9.8 8.2 12.4
122 24.9 19.8 29.6



#32
Benzo(a)anthracene
Concen: 5.042 ng
RT: 21.158 min Scan# 2409
Delta R.T. -0.002 min
Lab File: BN034746.D
Acq: 30 Oct 2024 12:56

Tgt Ion:228 Resp: 404286
Ion Ratio Lower Upper
228 100
226 28.0 22.6 33.8
229 19.2 15.7 23.5





#33

Chrysene

Concen: 4.934 ng

RT: 21.212 min Scan# 2417

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

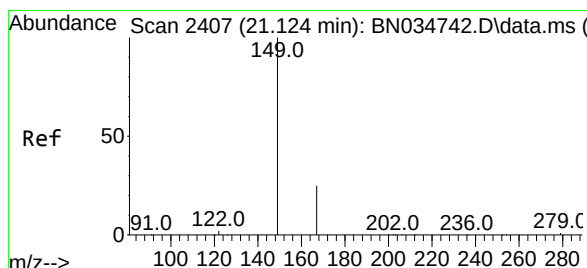
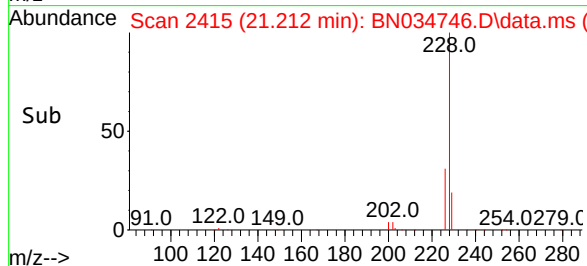
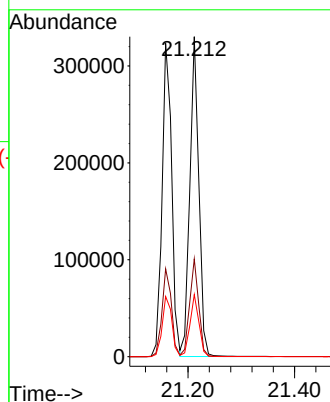
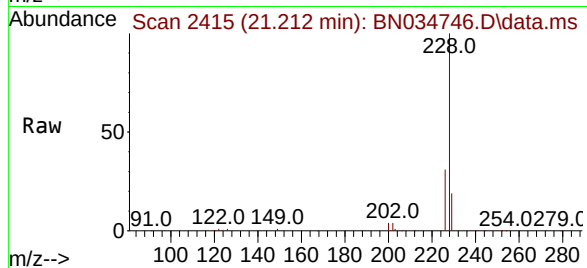
Tgt Ion:228 Resp: 387398

Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.041 ng

RT: 21.122 min Scan# 2405

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

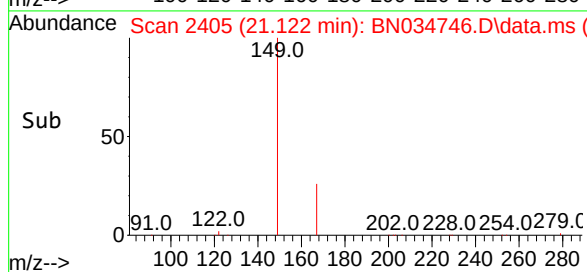
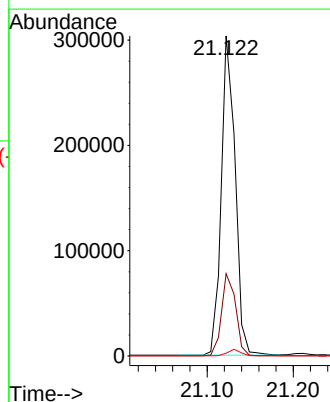
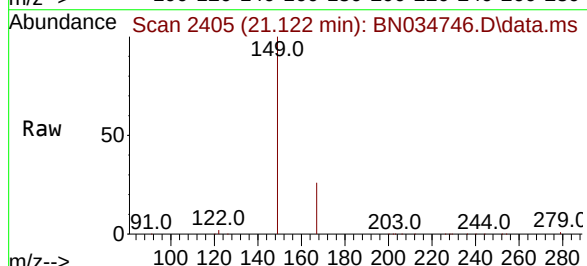
Tgt Ion:149 Resp: 337998

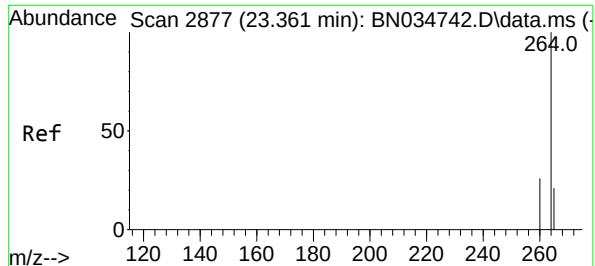
Ion Ratio Lower Upper

149 100

167 26.1 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.362 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034746.D

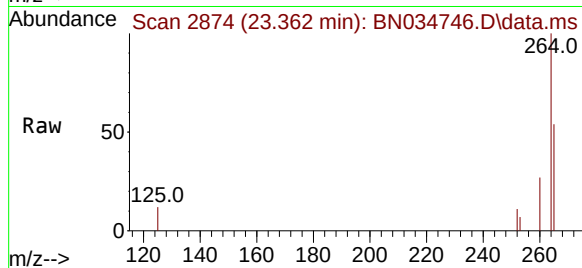
Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



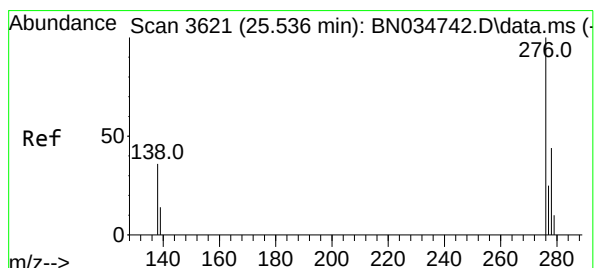
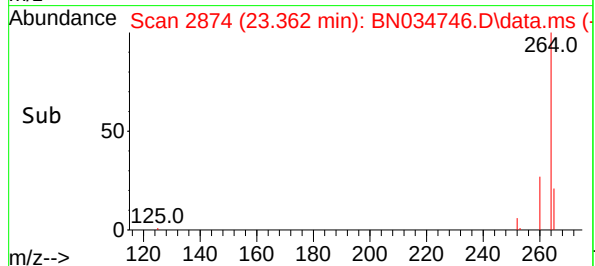
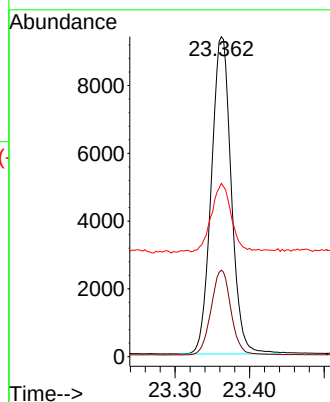
Tgt Ion:264 Resp: 17397

Ion Ratio Lower Upper

264 100

260 27.1 21.5 32.3

265 54.2 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.829 ng

RT: 25.540 min Scan# 3619

Delta R.T. 0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

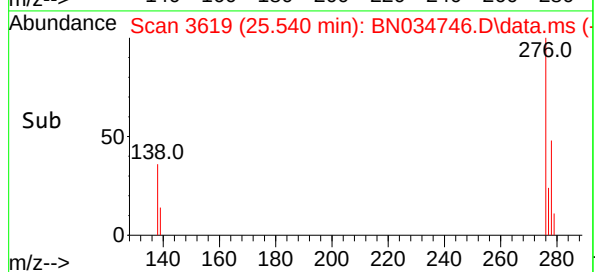
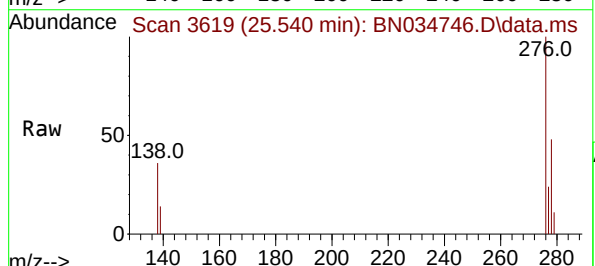
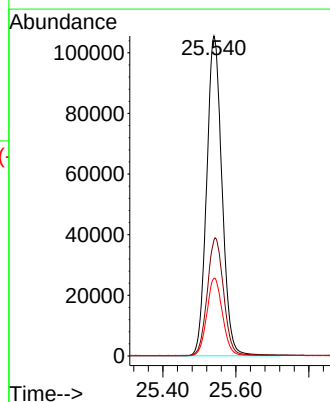
Tgt Ion:276 Resp: 309042

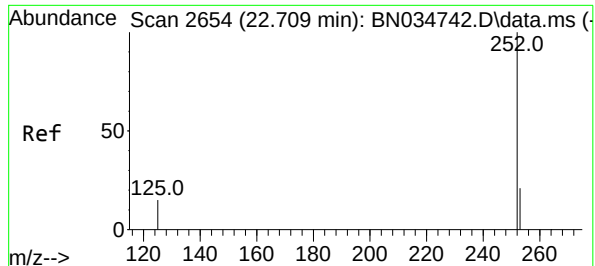
Ion Ratio Lower Upper

276 100

138 38.9 31.5 47.3

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 5.067 ng

RT: 22.713 min Scan# 2652

Delta R.T. 0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

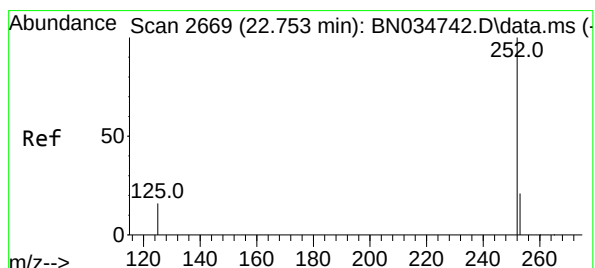
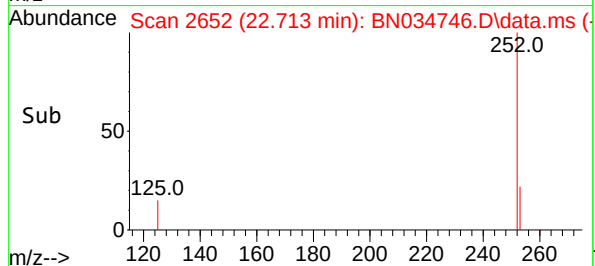
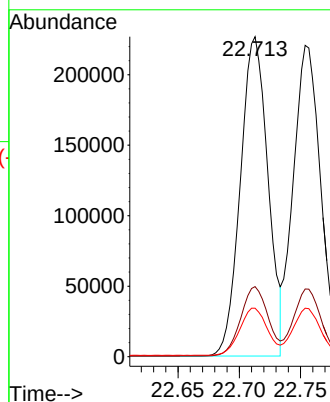
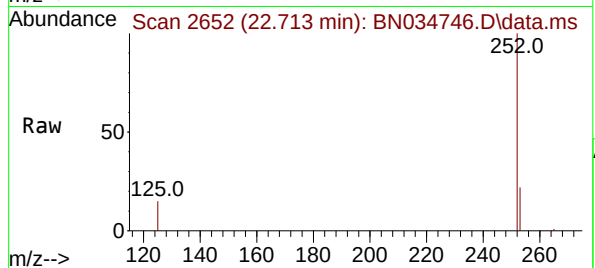
Tgt Ion:252 Resp: 354898

Ion Ratio Lower Upper

252 100

253 21.9 19.7 29.5

125 15.2 17.1 25.7#



#38

Benzo(k)fluoranthene

Concen: 5.053 ng

RT: 22.754 min Scan# 2666

Delta R.T. 0.001 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

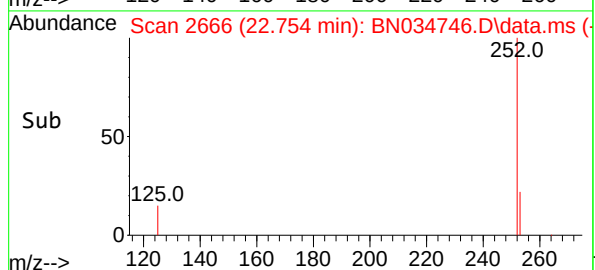
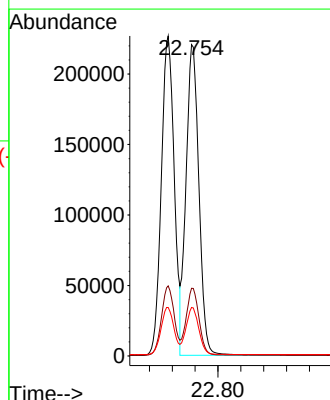
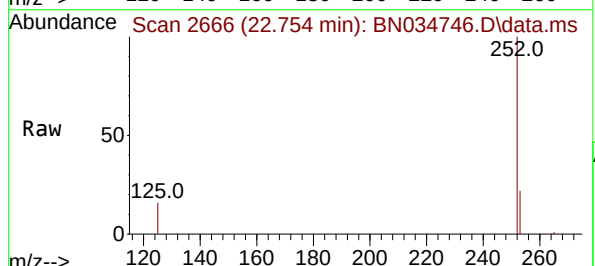
Tgt Ion:252 Resp: 345310

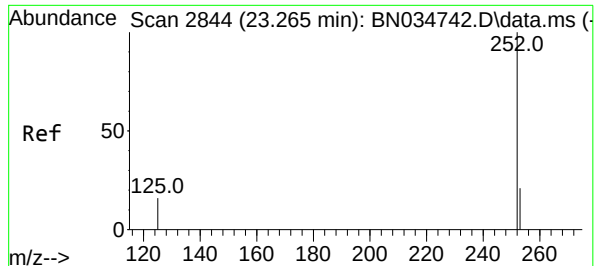
Ion Ratio Lower Upper

252 100

253 21.7 19.8 29.6

125 15.6 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 5.098 ng

RT: 23.268 min Scan# 21

Delta R.T. 0.004 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

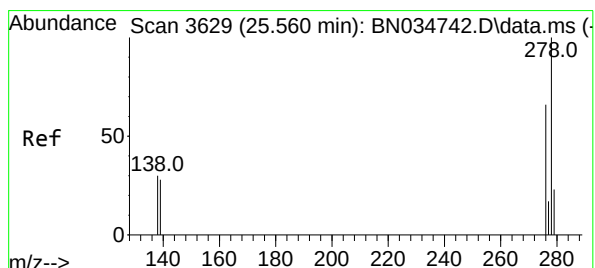
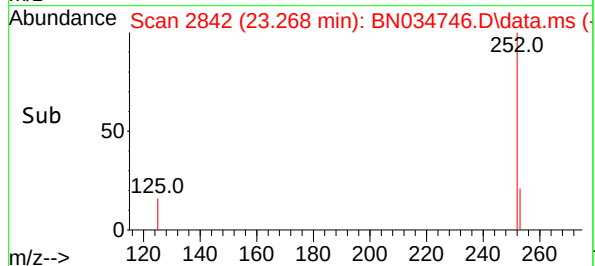
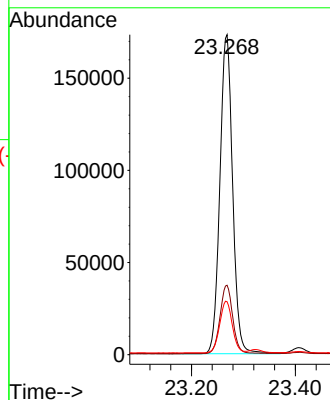
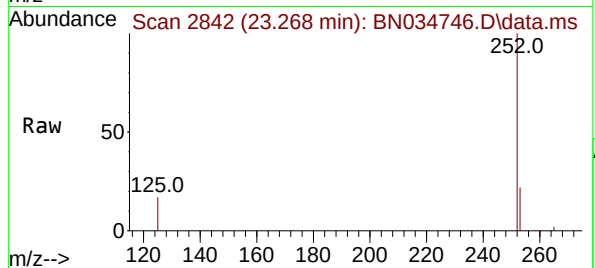
Tgt Ion:252 Resp: 294657

Ion Ratio Lower Upper

252 100

253 21.7 20.7 31.1

125 16.6 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 4.822 ng

RT: 25.558 min Scan# 3625

Delta R.T. -0.002 min

Lab File: BN034746.D

Acq: 30 Oct 2024 12:56

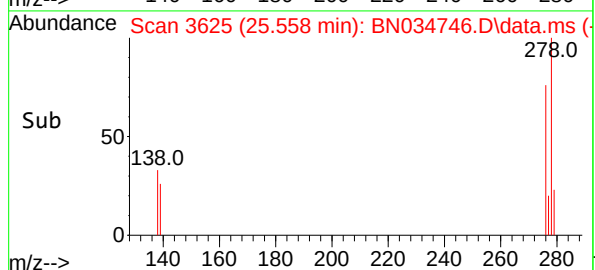
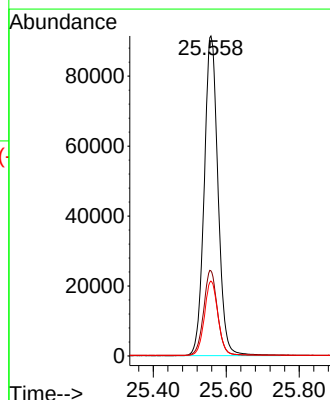
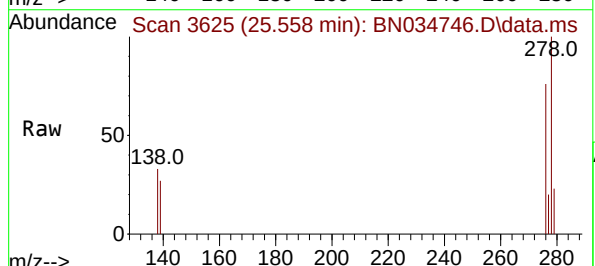
Tgt Ion:278 Resp: 240649

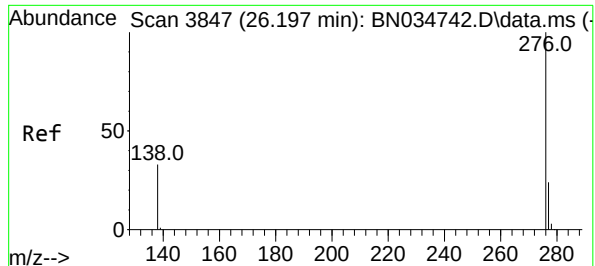
Ion Ratio Lower Upper

278 100

139 26.6 24.9 37.3

279 23.4 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 4.718 ng

RT: 26.198 min Scan# 3844

Delta R.T. 0.001 min

Lab File: BN034746.D

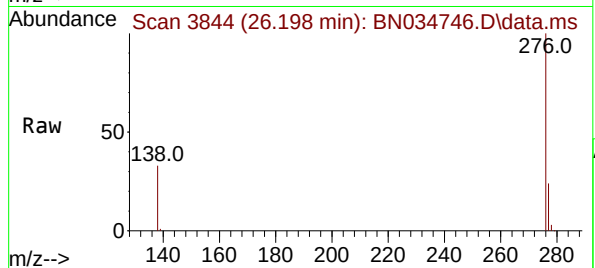
Acq: 30 Oct 2024 12:56

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



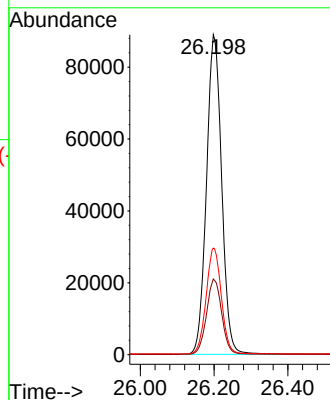
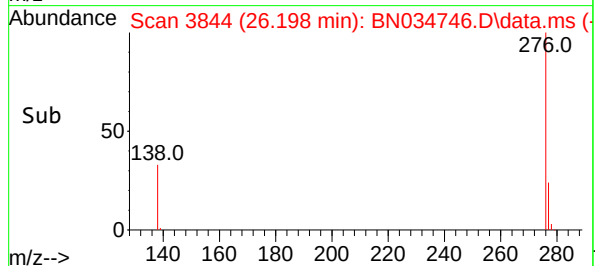
Tgt Ion:276 Resp: 254439

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.2

138 33.3 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
 Data File : BN034747.D
 Acq On : 30 Oct 2024 15:21
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN103024

Quant Time: Oct 30 15:57:34 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 30 13:28:24 2024
 Response via : Initial Calibration

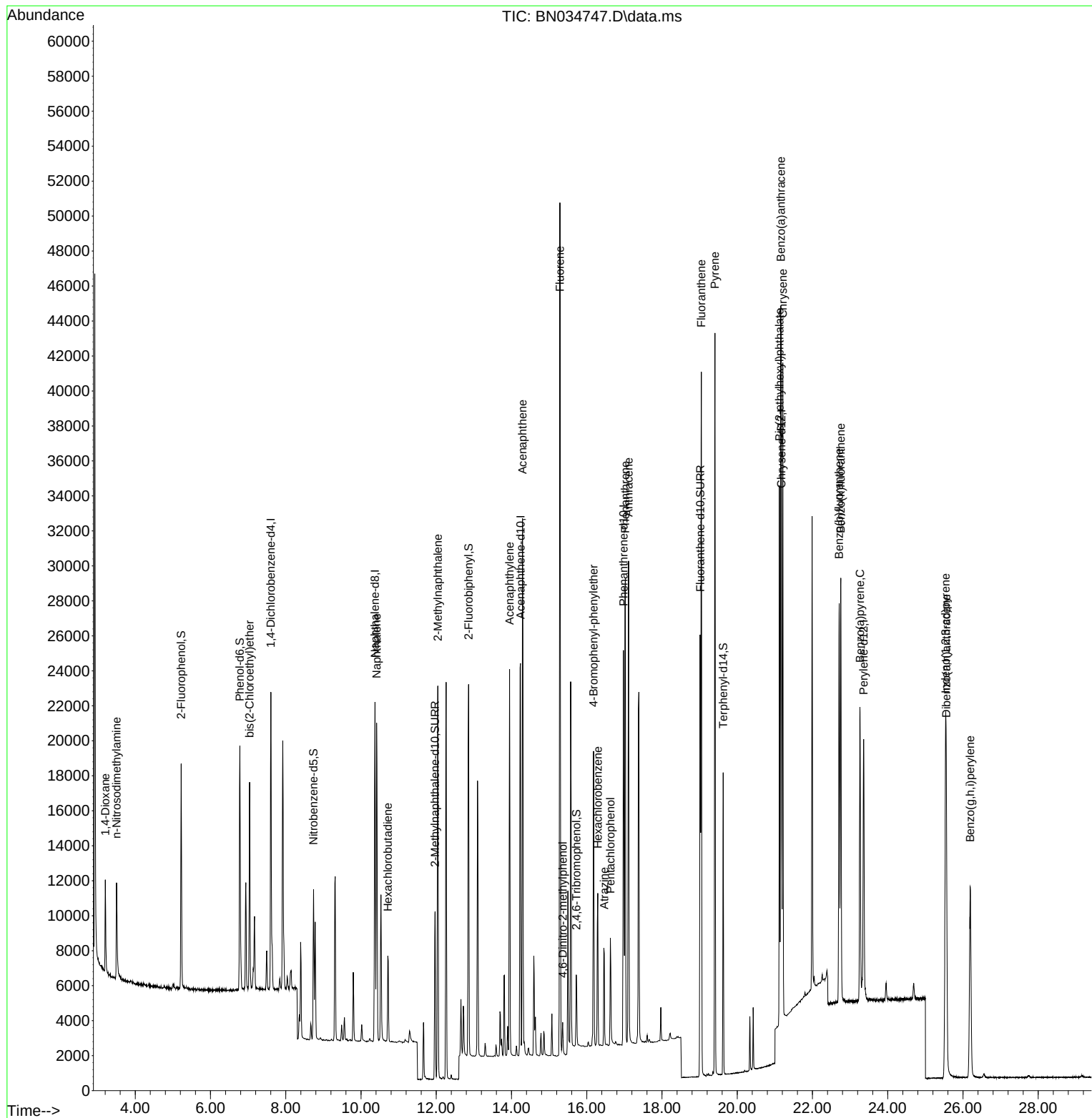
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.604	152	7993	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	24332	0.400	ng	0.00
13) Acenaphthene-d10	14.240	164	13847	0.400	ng	0.00
19) Phenanthrene-d10	16.976	188	28842	0.400	ng	# 0.00
29) Chrysene-d12	21.176	240	20211	0.400	ng	0.00
35) Perylene-d12	23.362	264	19052	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	9901	0.409	ng	0.00
5) Phenol-d6	6.780	99	12725	0.404	ng	0.00
8) Nitrobenzene-d5	8.738	82	6502	0.340	ng	0.00
11) 2-Methylnaphthalene-d10	11.969	152	12746	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.723	330	2296	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.860	172	18636	0.342	ng	0.00
27) Fluoranthene-d10	19.017	212	25699	0.380	ng	0.00
31) Terphenyl-d14	19.626	244	14610	0.337	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.205	88	3241	0.370	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.501	42	3778	0.382	ng	94
6) bis(2-Chloroethyl)ether	7.040	93	8441	0.368	ng	99
9) Naphthalene	10.415	128	23988	0.356	ng	99
10) Hexachlorobutadiene	10.714	225	3960	0.357	ng	# 100
12) 2-Methylnaphthalene	12.041	142	15573	0.354	ng	99
16) Acenaphthylene	13.951	152	22661	0.326	ng	100
17) Acenaphthene	14.293	154	15571	0.336	ng	99
18) Fluorene	15.287	166	19700	0.341	ng	100
20) 4,6-Dinitro-2-methylph...	15.362	198	1194	0.396	ng	88
21) 4-Bromophenyl-phenylether	16.182	248	5801	0.348	ng	# 81
22) Hexachlorobenzene	16.294	284	6660	0.356	ng	99
23) Atrazine	16.467	200	4984	0.347	ng	# 91
24) Pentachlorophenol	16.629	266	2972	0.369	ng	97
25) Phenanthrene	17.026	178	31124	0.367	ng	100
26) Anthracene	17.113	178	28137	0.354	ng	100
28) Fluoranthene	19.045	202	34832	0.373	ng	100
30) Pyrene	19.407	202	36026	0.341	ng	100
32) Benzo(a)anthracene	21.158	228	28785	0.358	ng	99
33) Chrysene	21.212	228	28844	0.366	ng	100
34) Bis(2-ethylhexyl)phtha...	21.122	149	26293	0.391	ng	100
36) Indeno(1,2,3-cd)pyrene	25.537	276	24079	0.344	ng	100
37) Benzo(b)fluoranthene	22.710	252	27161	0.354	ng	98
38) Benzo(k)fluoranthene	22.754	252	27081	0.362	ng	98
39) Benzo(a)pyrene	23.262	252	22298	0.352	ng	97
40) Dibenzo(a,h)anthracene	25.558	278	18731	0.343	ng	98
41) Benzo(g,h,i)perylene	26.195	276	20248	0.343	ng	100

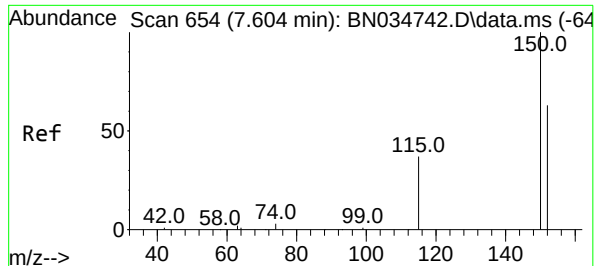
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034747.D
Acq On : 30 Oct 2024 15:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN103024

Quant Time: Oct 30 15:57:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

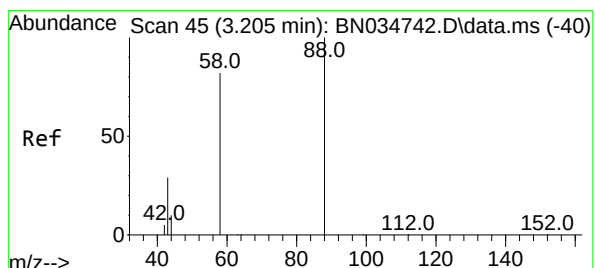
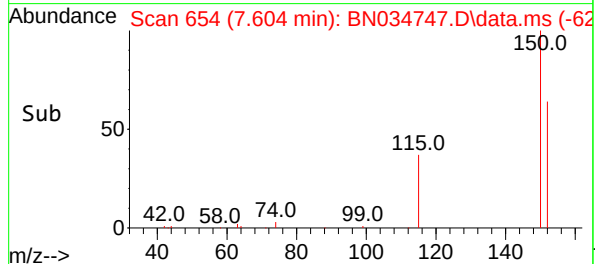
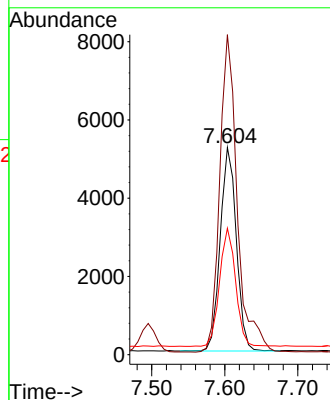
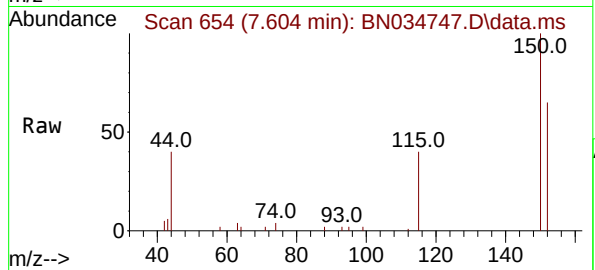




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.604 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

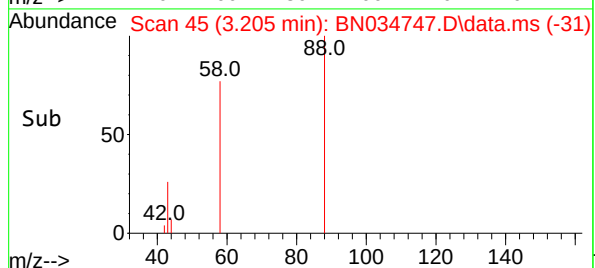
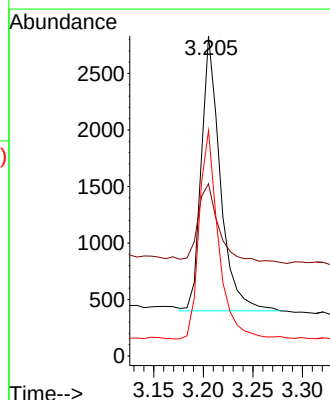
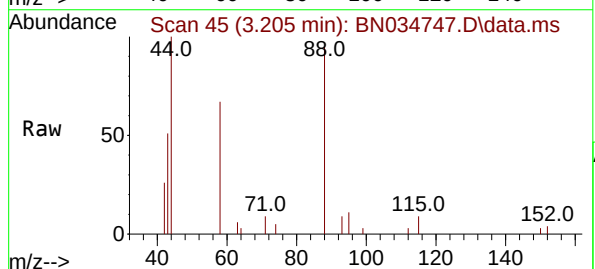
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

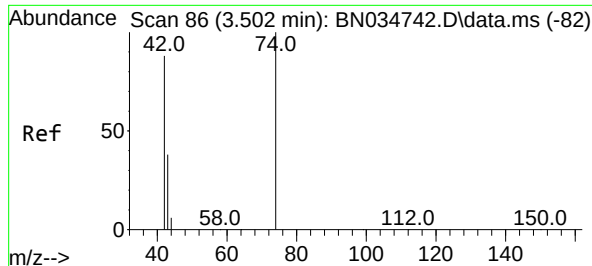
Tgt Ion:152 Resp: 7993
Ion Ratio Lower Upper
152 100
150 154.4 124.9 187.3
115 61.0 50.2 75.2



#2
1,4-Dioxane
Concen: 0.370 ng
RT: 3.205 min Scan# 45
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion: 88 Resp: 3241
Ion Ratio Lower Upper
88 100
43 31.3 26.7 40.1
58 76.7 59.3 88.9

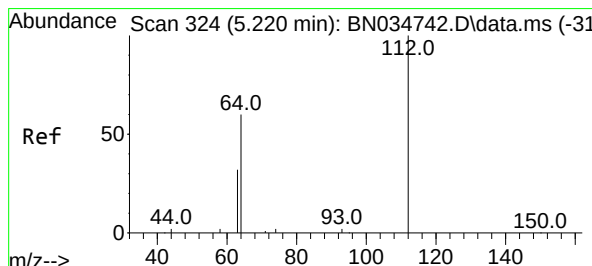
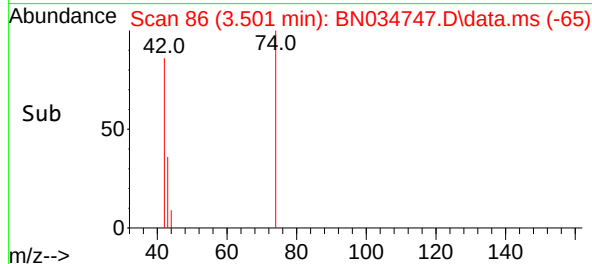
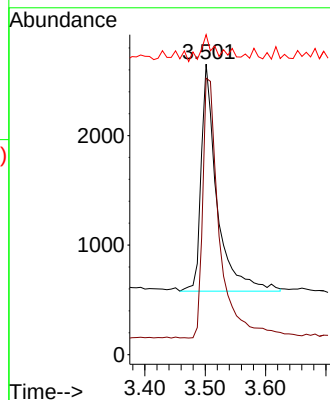
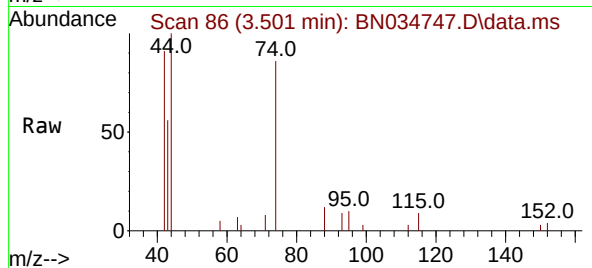




#3
n-Nitrosodimethylamine
Concen: 0.382 ng
RT: 3.501 min Scan# 86
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

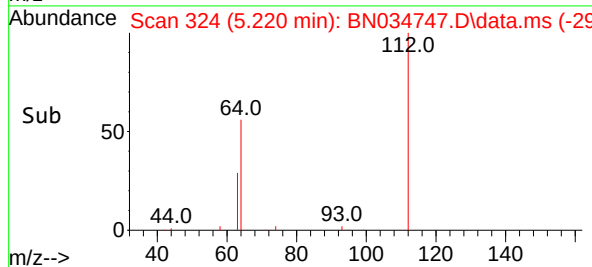
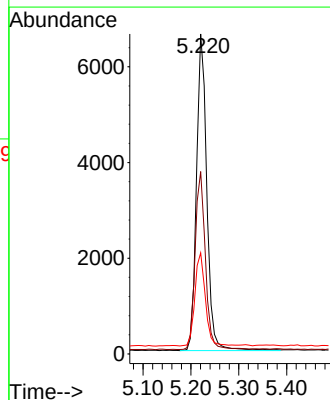
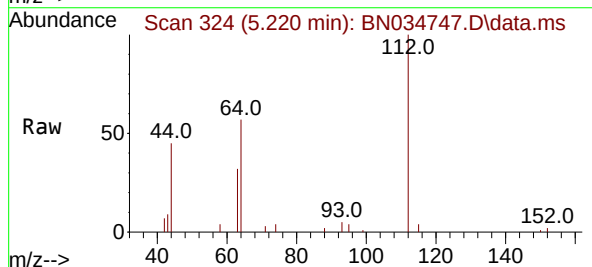
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

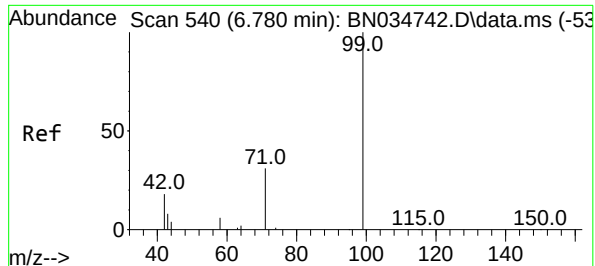
Tgt Ion: 42 Resp: 3778
Ion Ratio Lower Upper
42 100
74 121.8 103.1 154.7
44 8.7 6.7 10.1



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion: 112 Resp: 9901
Ion Ratio Lower Upper
112 100
64 56.0 44.9 67.3
63 29.7 23.5 35.3

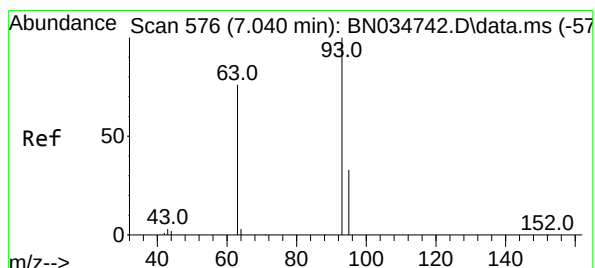
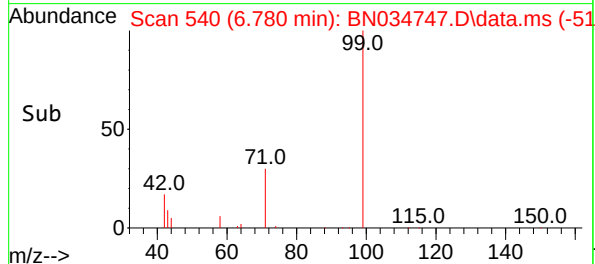
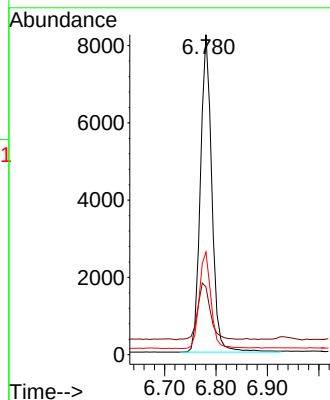
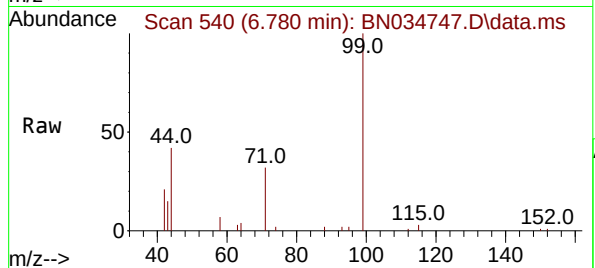




#5
Phenol-d6
Concen: 0.404 ng
RT: 6.780 min Scan# 540
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

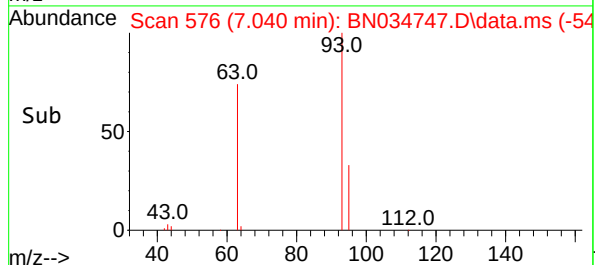
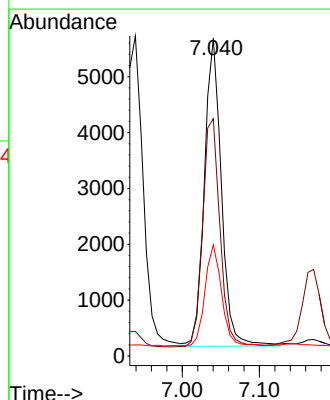
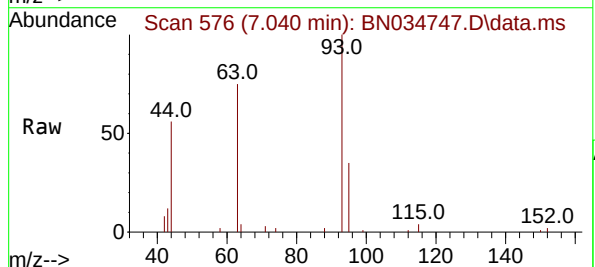
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

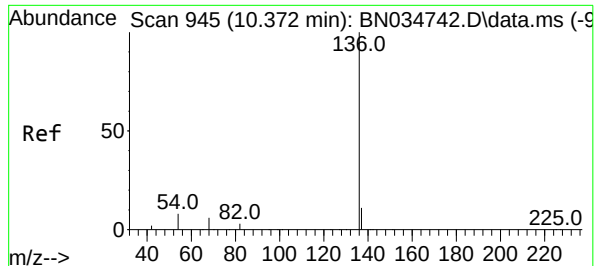
Tgt Ion: 99 Resp: 12725
Ion Ratio Lower Upper
99 100
42 19.9 15.9 23.9
71 31.0 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion: 93 Resp: 8441
Ion Ratio Lower Upper
93 100
63 75.9 61.2 91.8
95 32.0 25.8 38.8

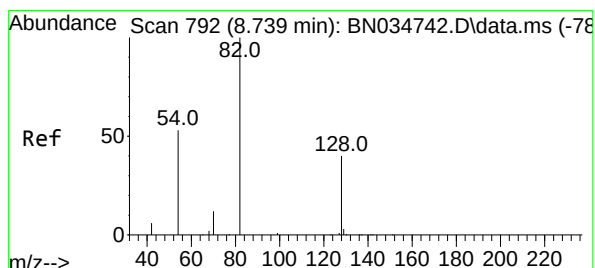
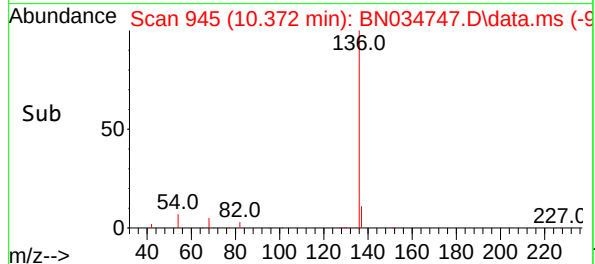
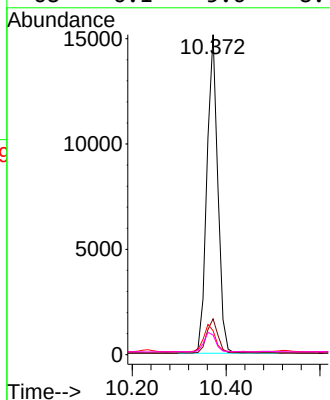
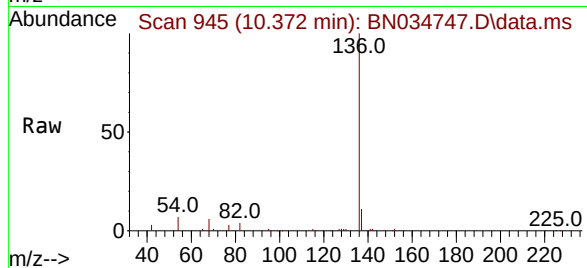




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

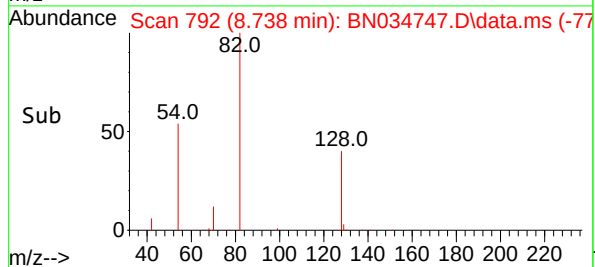
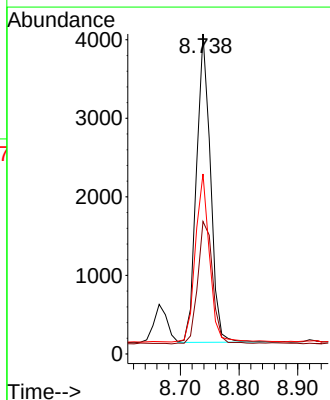
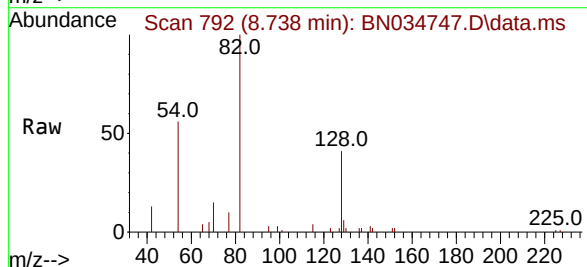
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

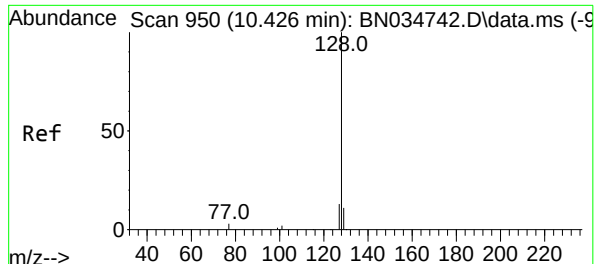
Tgt Ion:	136	Resp:	24332
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.2	13.8
54	7.5	7.0	10.4
68	6.1	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.340 ng
RT: 8.738 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:	82	Resp:	6502
Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.7	50.5
54	56.2	44.4	66.6

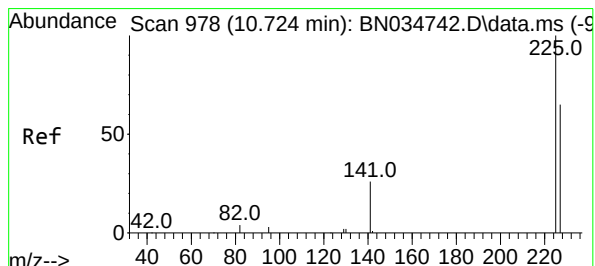
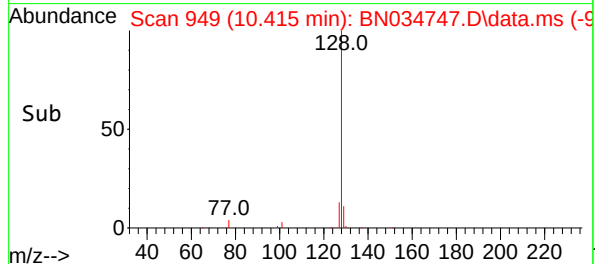
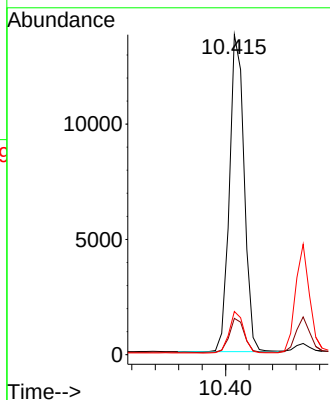
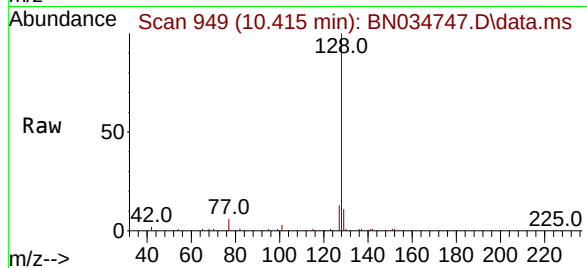




#9
Naphthalene
Concen: 0.356 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

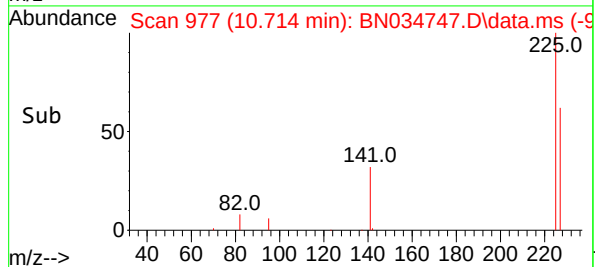
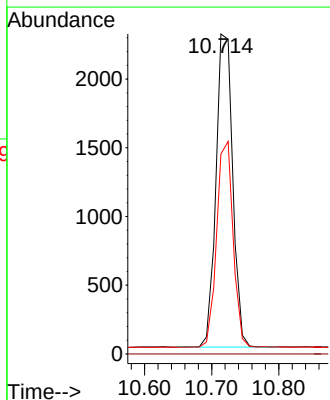
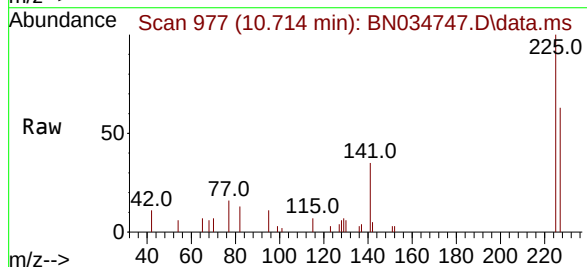
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

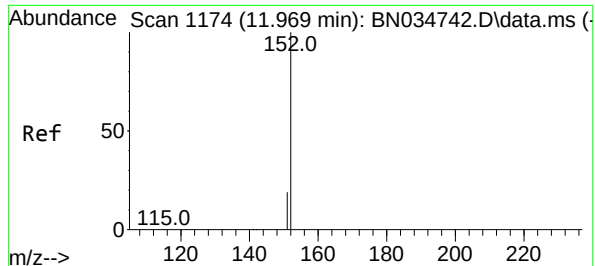
Tgt Ion:128 Resp: 23988
Ion Ratio Lower Upper
128 100
129 11.4 9.4 14.0
127 13.5 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.357 ng
RT: 10.714 min Scan# 977
Delta R.T. -0.011 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:225 Resp: 3960
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 51.4 77.2

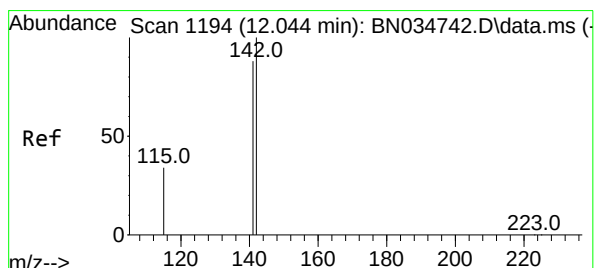
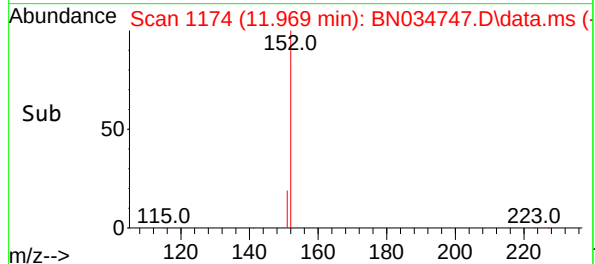
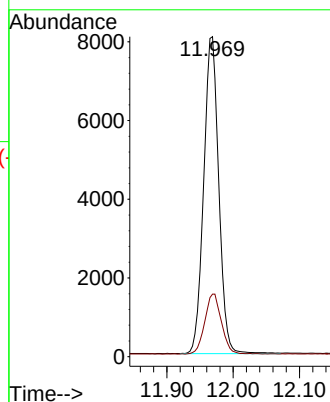
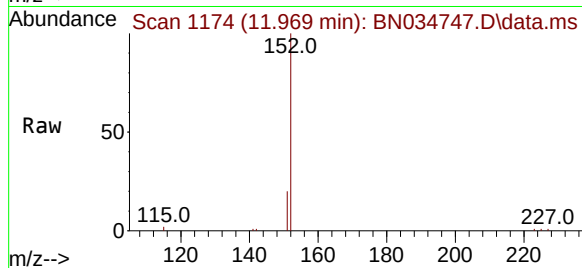




#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 11.969 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

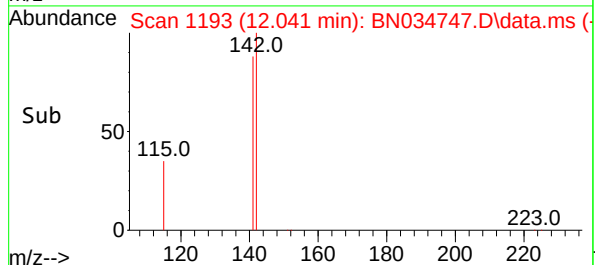
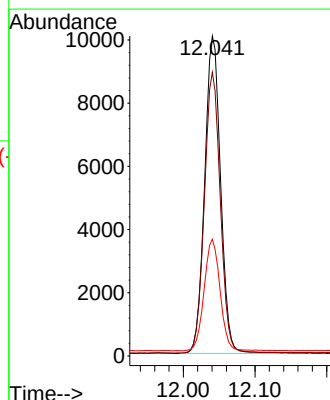
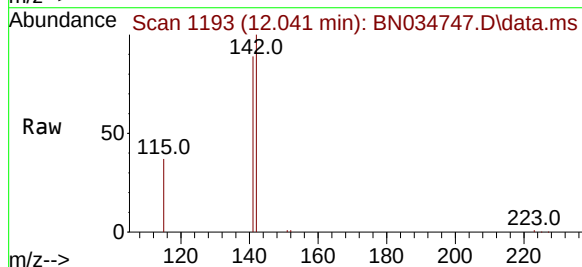
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

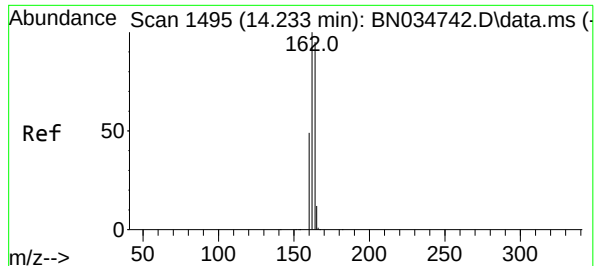
Tgt Ion:152 Resp: 12746
Ion Ratio Lower Upper
152 100
151 20.8 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.354 ng
RT: 12.041 min Scan# 1193
Delta R.T. -0.004 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:142 Resp: 15573
Ion Ratio Lower Upper
142 100
141 88.7 70.6 106.0
115 36.5 28.6 42.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.240 min Scan# 1495

Delta R.T. 0.007 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

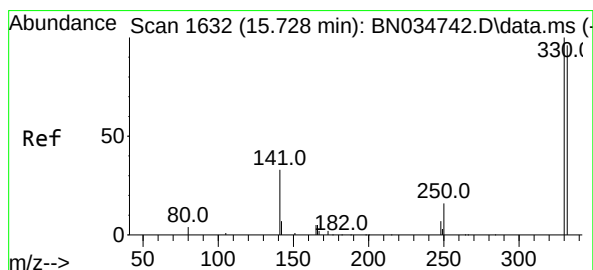
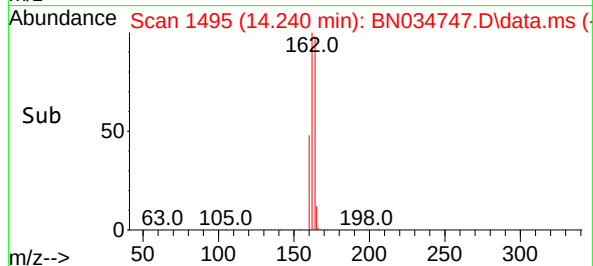
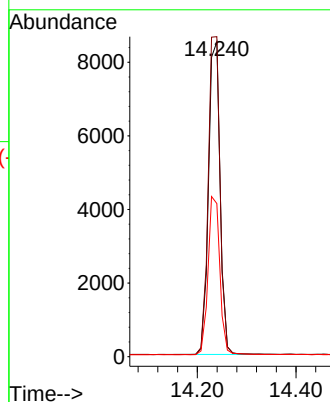
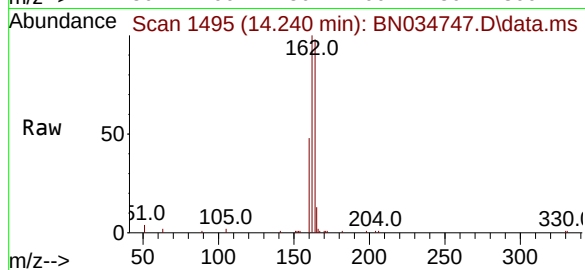
Tgt Ion:164 Resp: 13847

Ion Ratio Lower Upper

164 100

162 101.7 84.3 126.5

160 48.6 41.7 62.5



#14

2,4,6-Tribromophenol

Concen: 0.336 ng

RT: 15.723 min Scan# 1631

Delta R.T. -0.006 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

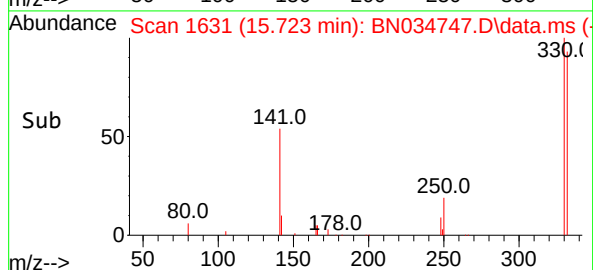
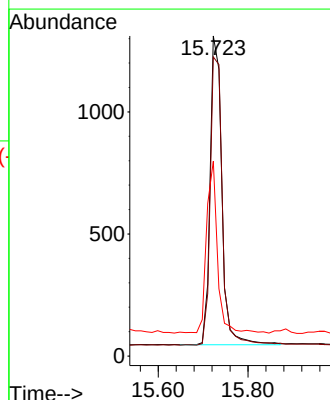
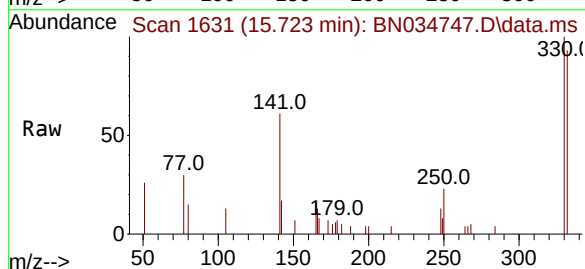
Tgt Ion:330 Resp: 2296

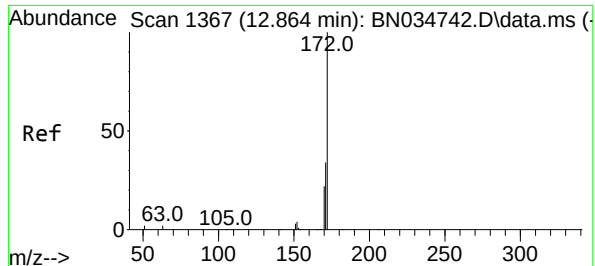
Ion Ratio Lower Upper

330 100

332 96.6 77.8 116.6

141 51.8 41.0 61.4





#15

2-Fluorobiphenyl

Concen: 0.342 ng

RT: 12.860 min Scan# 1367

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

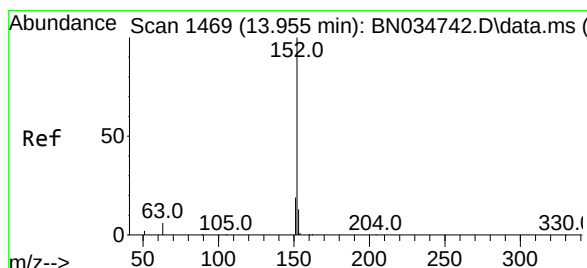
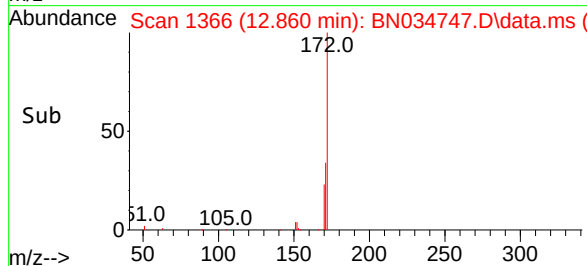
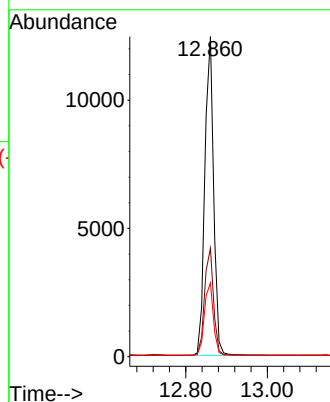
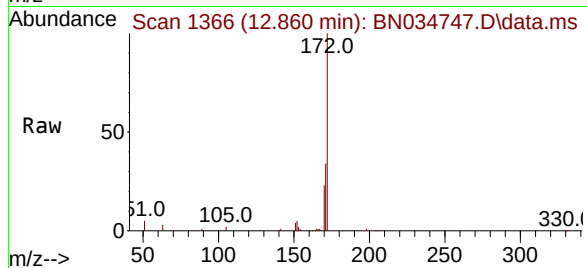
Tgt Ion:172 Resp: 18636

Ion Ratio Lower Upper

172 100

171 33.9 27.2 40.8

170 23.1 18.0 27.0



#16

Acenaphthylene

Concen: 0.326 ng

RT: 13.951 min Scan# 1468

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

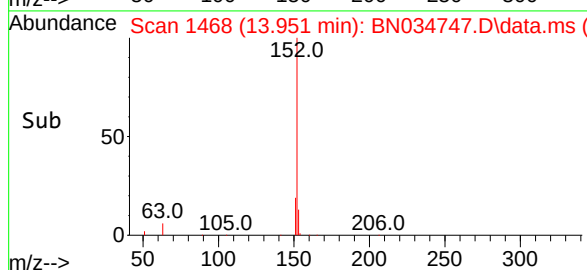
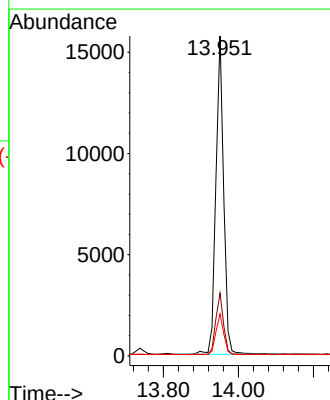
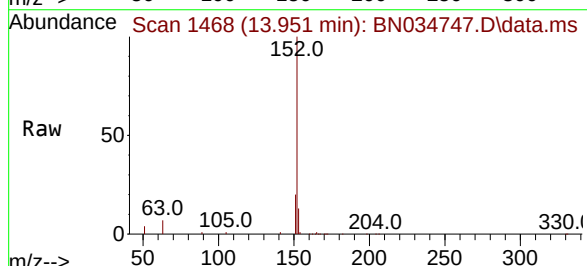
Tgt Ion:152 Resp: 22661

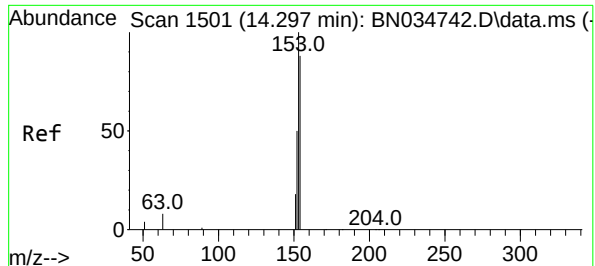
Ion Ratio Lower Upper

152 100

151 19.3 15.4 23.2

153 12.9 10.2 15.4

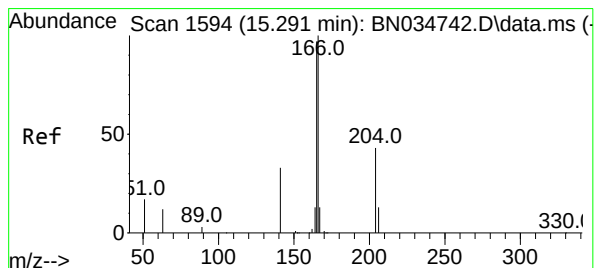
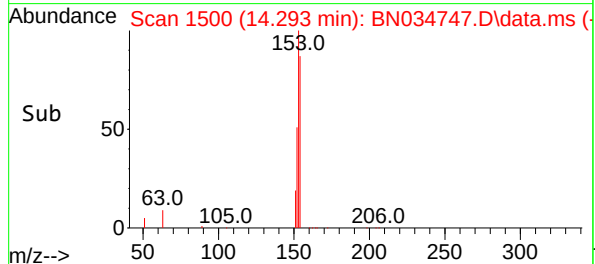
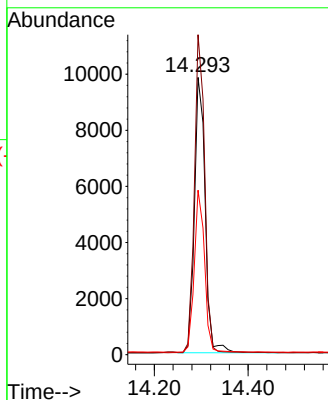
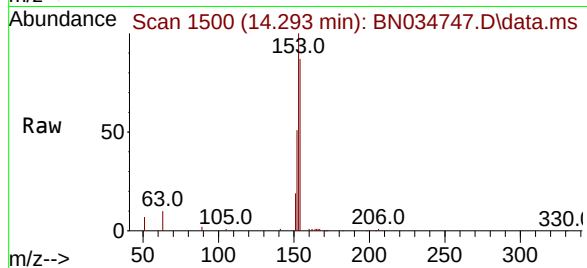




#17
Acenaphthene
Concen: 0.336 ng
RT: 14.293 min Scan# 1500
Delta R.T. -0.004 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

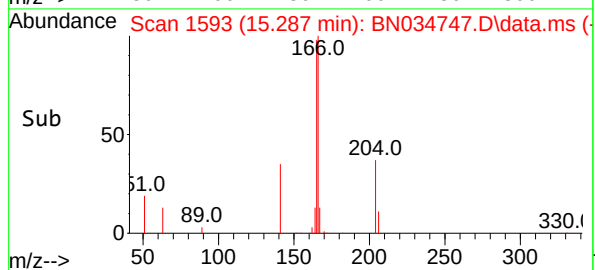
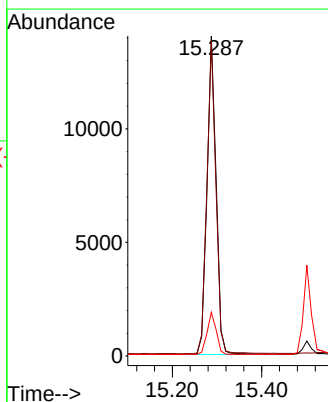
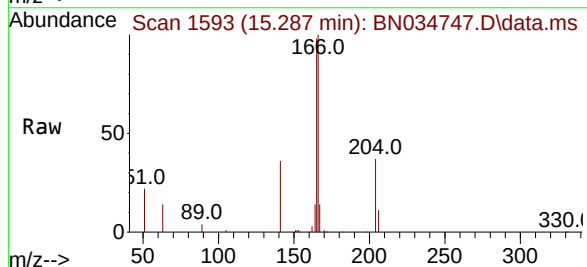
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

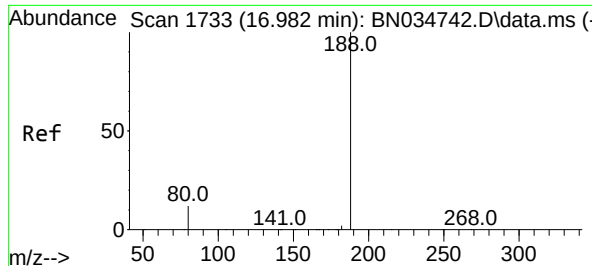
Tgt Ion:154 Resp: 15571
Ion Ratio Lower Upper
154 100
153 110.8 87.8 131.6
152 56.4 44.6 67.0



#18
Fluorene
Concen: 0.341 ng
RT: 15.287 min Scan# 1593
Delta R.T. -0.004 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:166 Resp: 19700
Ion Ratio Lower Upper
166 100
165 98.3 78.5 117.7
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.976 min Scan# 11

Delta R.T. -0.006 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

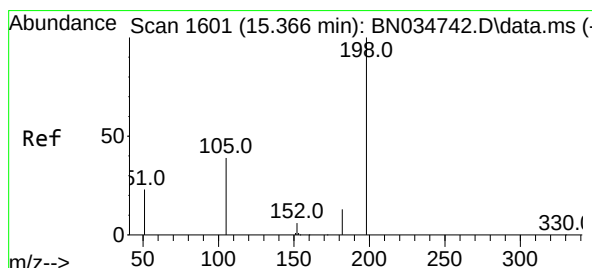
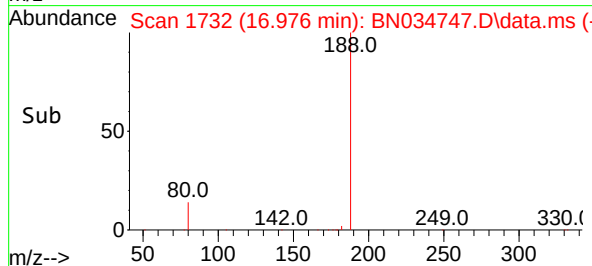
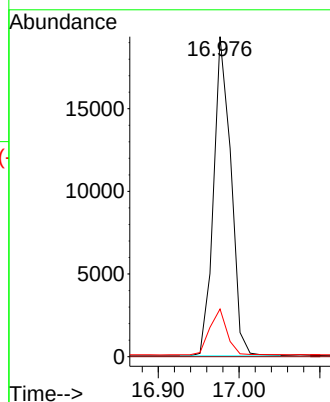
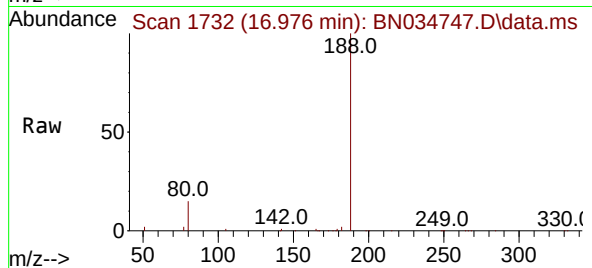
Tgt Ion:188 Resp: 28842

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.9 9.8 14.6#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.396 ng

RT: 15.362 min Scan# 1600

Delta R.T. -0.004 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

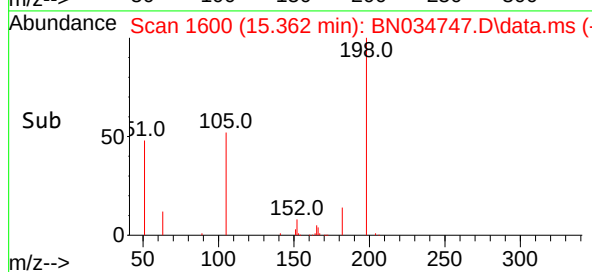
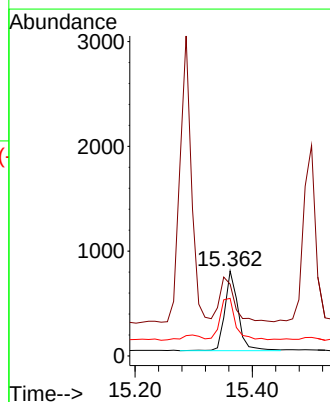
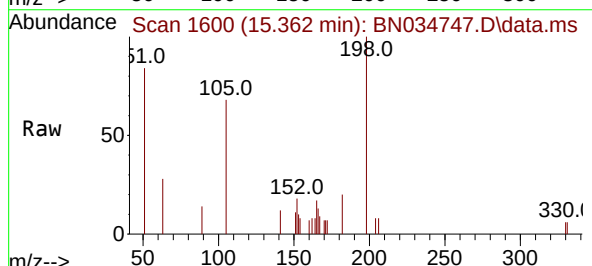
Tgt Ion:198 Resp: 1194

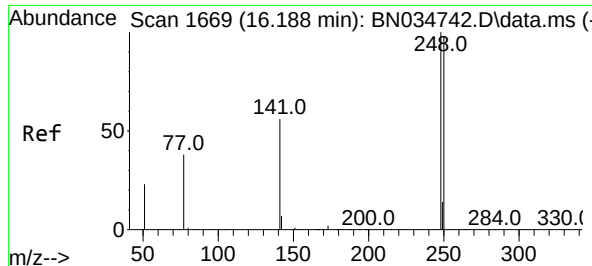
Ion Ratio Lower Upper

198 100

51 84.5 58.0 87.0

105 67.7 49.1 73.7





#21

4-Bromophenyl-phenylether

Concen: 0.348 ng

RT: 16.182 min Scan# 1668

Delta R.T. -0.006 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

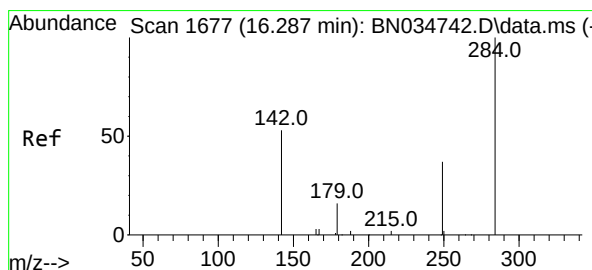
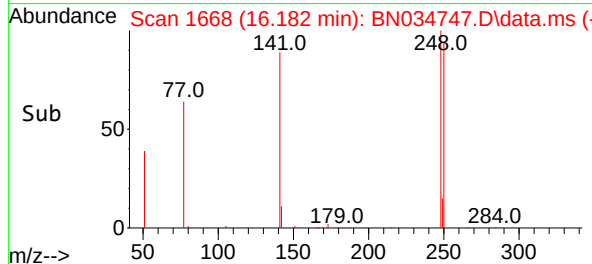
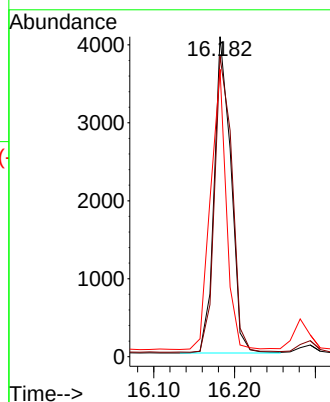
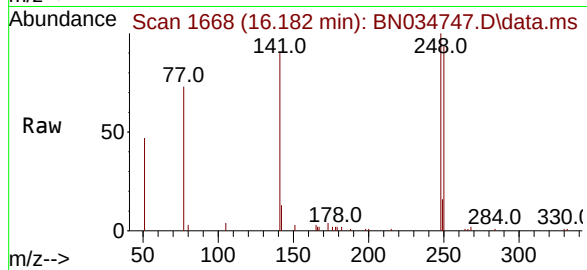
Tgt Ion:248 Resp: 5801

Ion Ratio Lower Upper

248 100

250 93.9 78.7 118.1

141 89.8 46.4 69.6#



#22

Hexachlorobenzene

Concen: 0.356 ng

RT: 16.294 min Scan# 1677

Delta R.T. 0.007 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

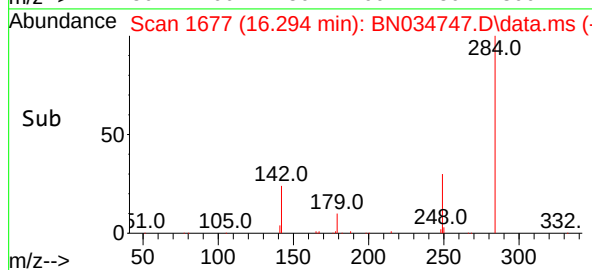
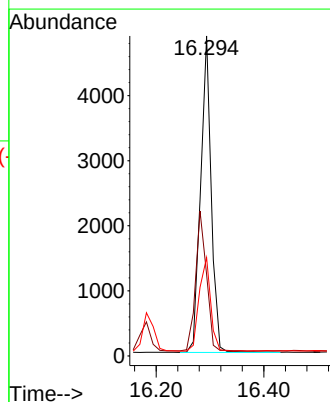
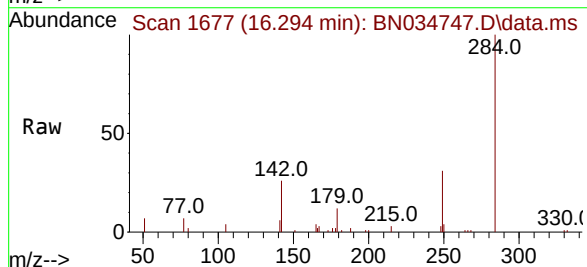
Tgt Ion:284 Resp: 6660

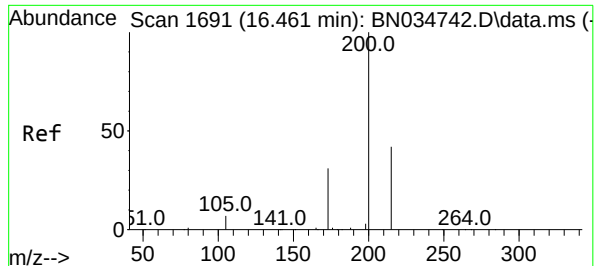
Ion Ratio Lower Upper

284 100

142 45.6 35.4 53.0

249 32.0 25.7 38.5

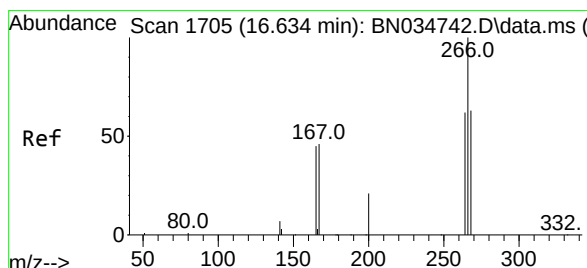
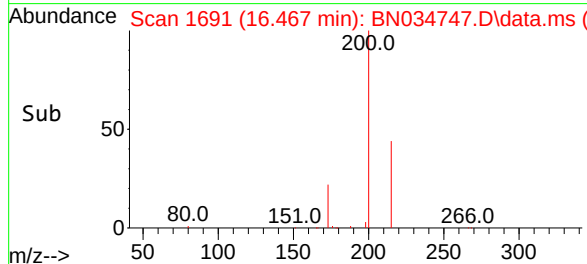
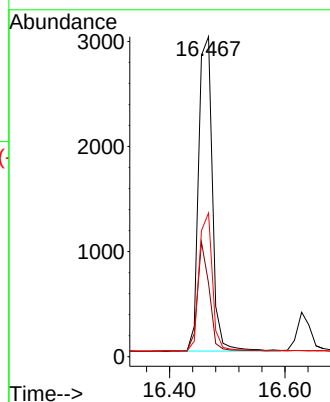
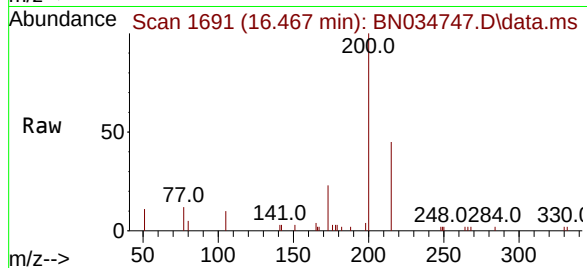




#23
Atrazine
Concen: 0.347 ng
RT: 16.467 min Scan# 1
Delta R.T. 0.007 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

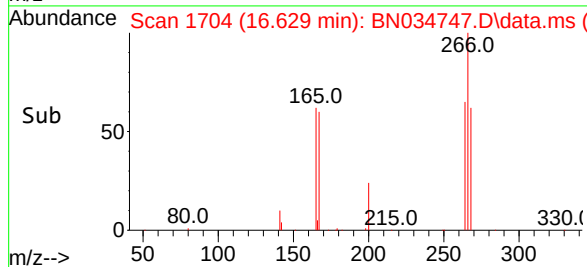
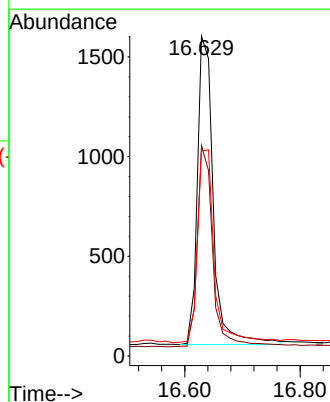
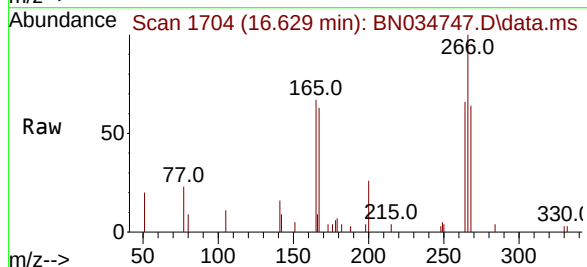
Instrument :
BNA_N
ClientSampleId :
ICVBN103024

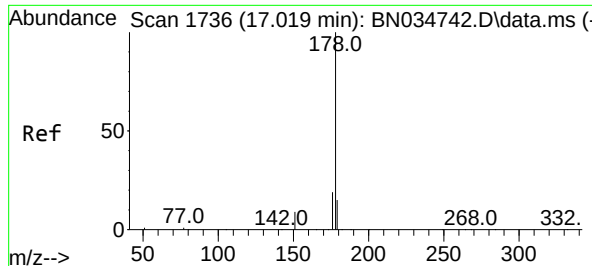
Tgt Ion:200 Resp: 4984
Ion Ratio Lower Upper
200 100
173 23.0 25.8 38.6#
215 44.9 34.2 51.4



#24
Pentachlorophenol
Concen: 0.369 ng
RT: 16.629 min Scan# 1704
Delta R.T. -0.005 min
Lab File: BN034747.D
Acq: 30 Oct 2024 15:21

Tgt Ion:266 Resp: 2972
Ion Ratio Lower Upper
266 100
264 63.0 48.7 73.1
268 65.2 50.2 75.4





#25

Phenanthrene

Concen: 0.367 ng

RT: 17.026 min Scan# 1736

Delta R.T. 0.007 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

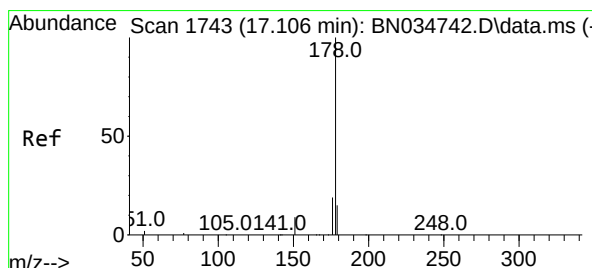
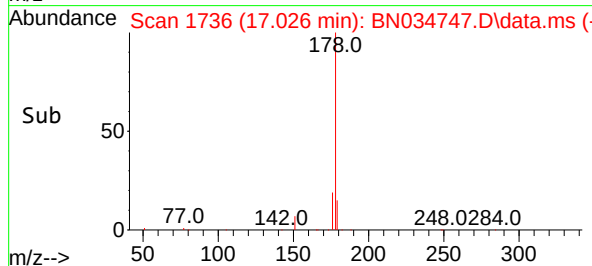
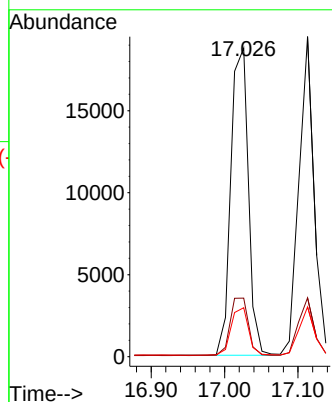
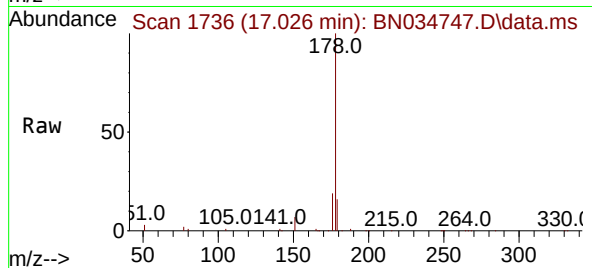
Tgt Ion:178 Resp: 31124

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 15.2 12.2 18.4



#26

Anthracene

Concen: 0.354 ng

RT: 17.113 min Scan# 1743

Delta R.T. 0.007 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

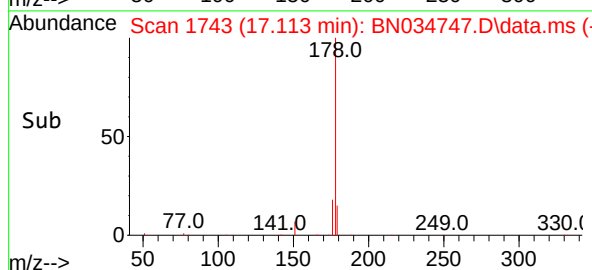
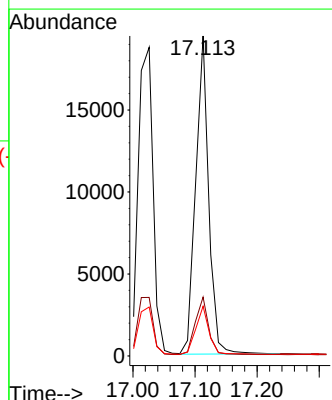
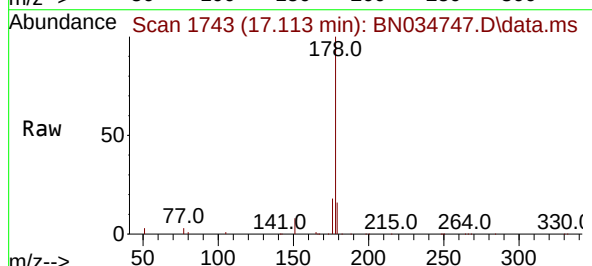
Tgt Ion:178 Resp: 28137

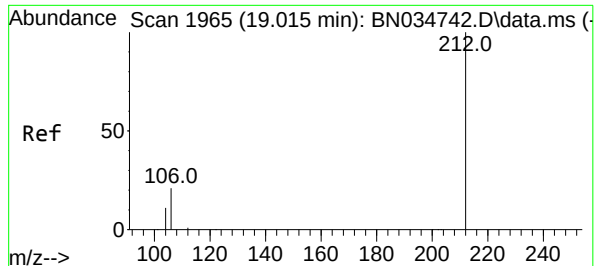
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.6

179 15.1 12.2 18.2





#27

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.017 min Scan# 1965

Delta R.T. 0.002 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

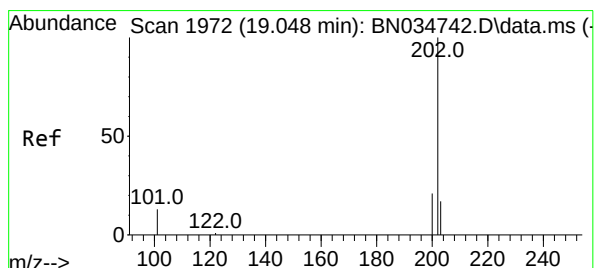
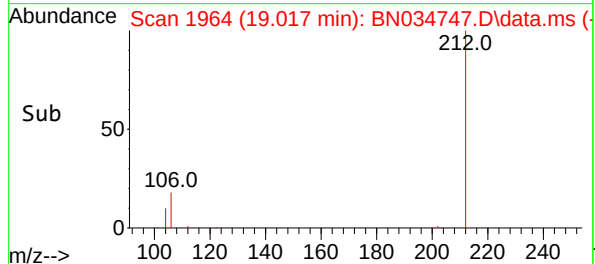
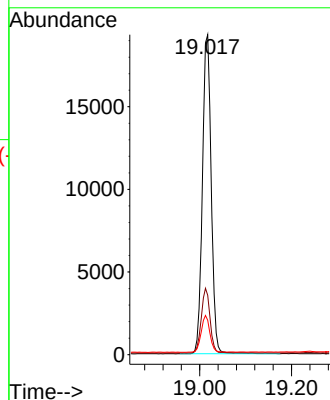
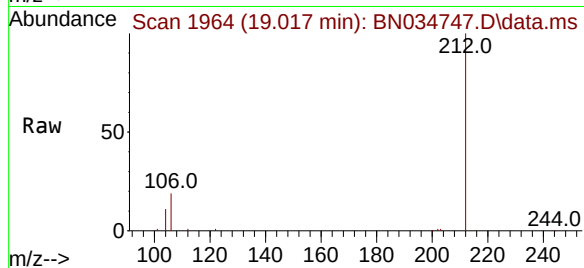
Tgt Ion:212 Resp: 25699

Ion Ratio Lower Upper

212 100

106 20.0 16.1 24.1

104 11.4 9.2 13.8



#28

Fluoranthene

Concen: 0.373 ng

RT: 19.045 min Scan# 1970

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

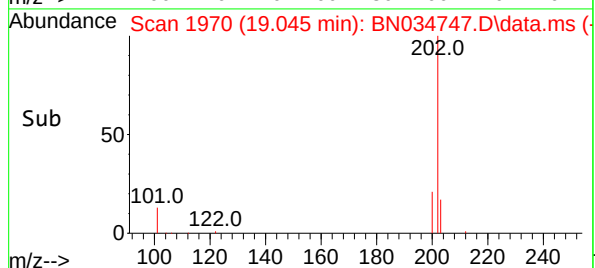
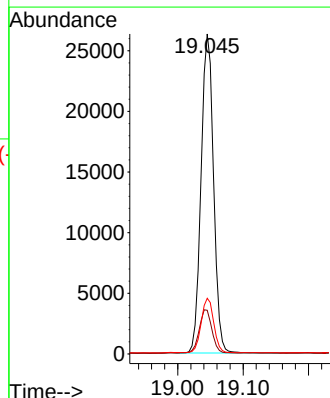
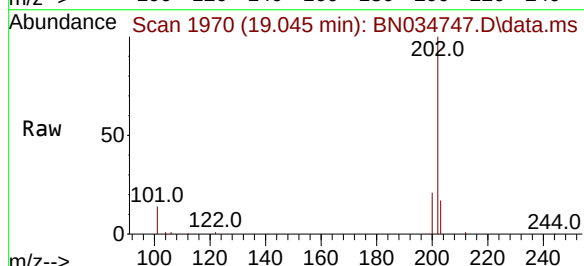
Tgt Ion:202 Resp: 34832

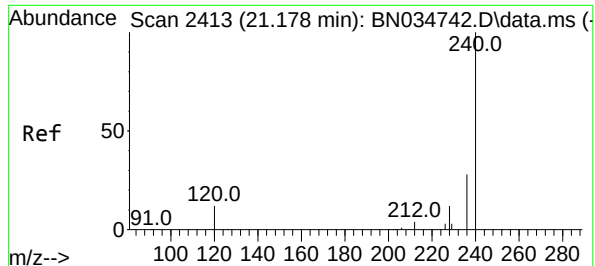
Ion Ratio Lower Upper

202 100

101 14.0 11.4 17.0

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.176 min Scan# 2411

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

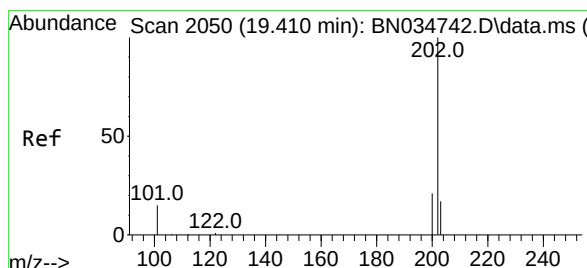
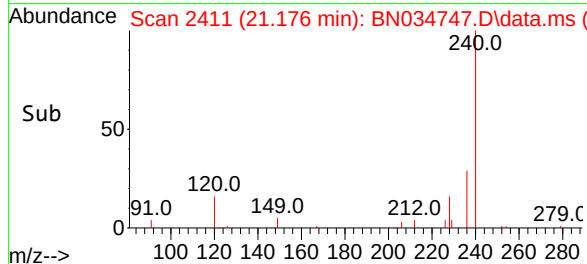
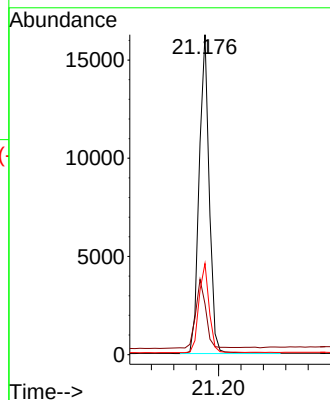
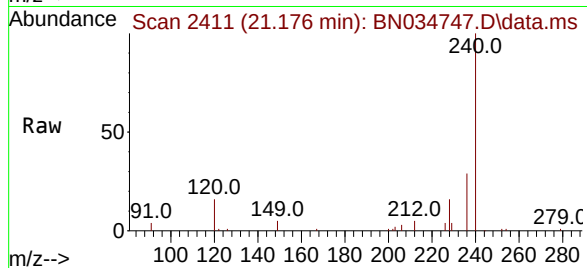
Tgt Ion:240 Resp: 20211

Ion Ratio Lower Upper

240 100

120 15.9 11.5 17.3

236 28.5 23.2 34.8



#30

Pyrene

Concen: 0.341 ng

RT: 19.407 min Scan# 2048

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

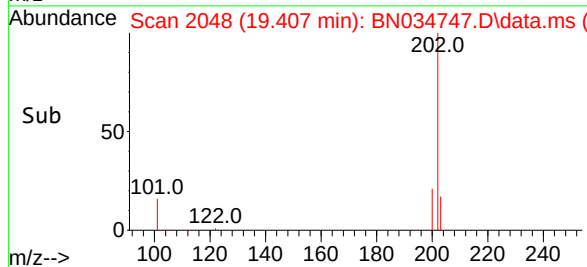
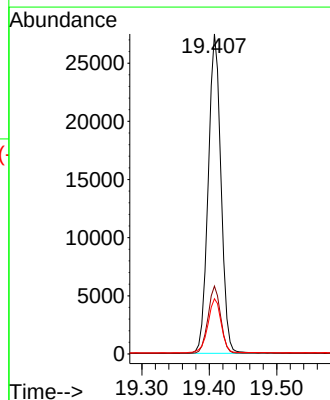
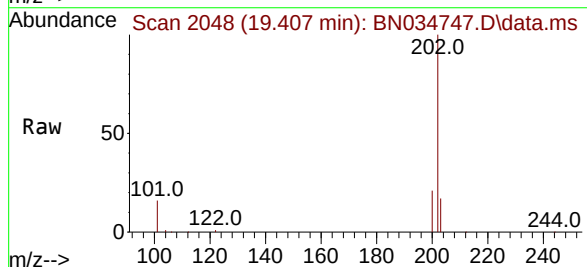
Tgt Ion:202 Resp: 36026

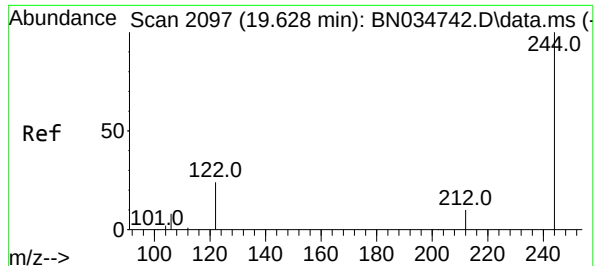
Ion Ratio Lower Upper

202 100

200 20.9 17.0 25.4

203 17.6 14.2 21.2





#31

Terphenyl-d14

Concen: 0.337 ng

RT: 19.626 min Scan# 2095

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

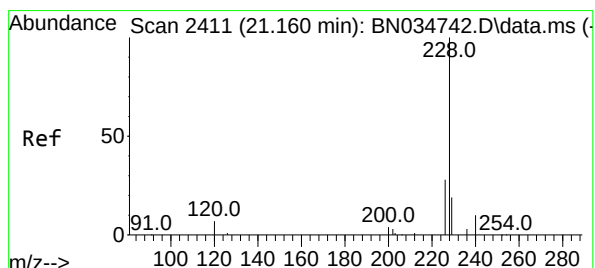
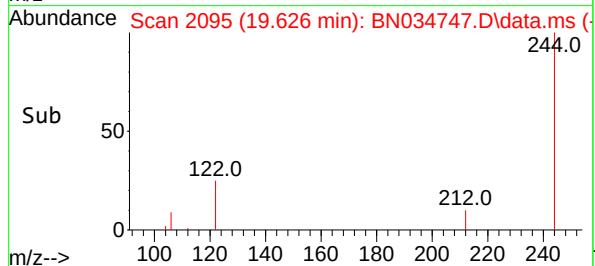
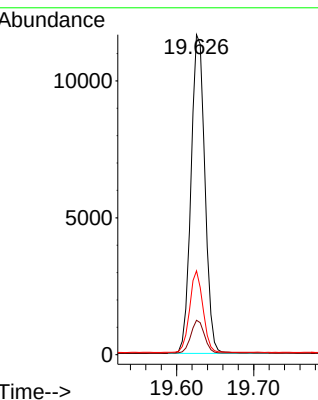
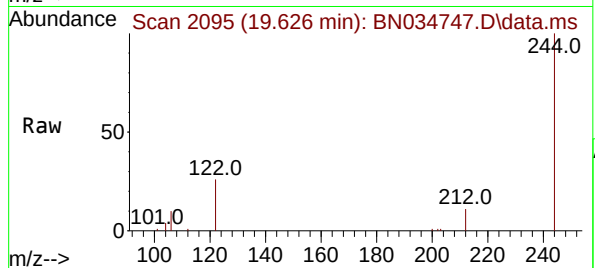
Tgt Ion:244 Resp: 14610

Ion Ratio Lower Upper

244 100

212 10.7 8.2 12.4

122 26.2 19.8 29.6



#32

Benzo(a)anthracene

Concen: 0.358 ng

RT: 21.158 min Scan# 2409

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

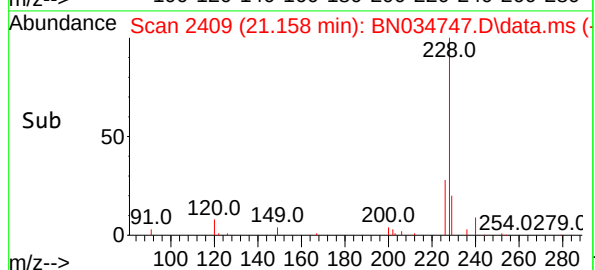
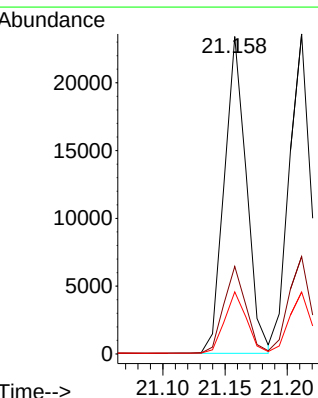
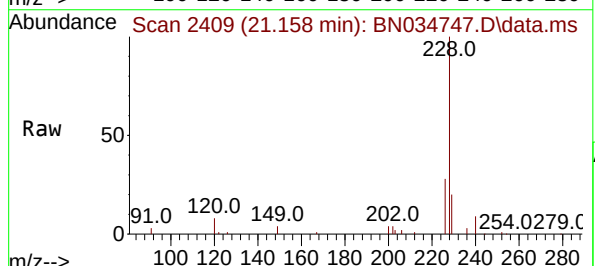
Tgt Ion:228 Resp: 28785

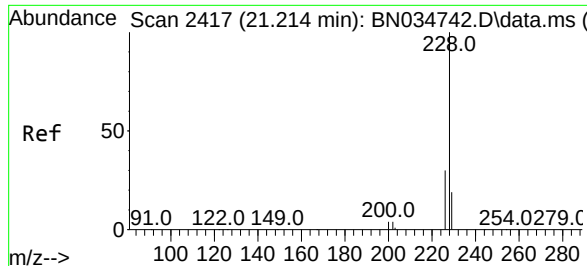
Ion Ratio Lower Upper

228 100

226 27.6 22.6 33.8

229 19.6 15.7 23.5





#33

Chrysene

Concen: 0.366 ng

RT: 21.212 min Scan# 2417

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

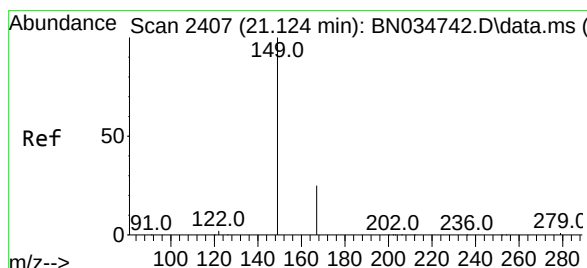
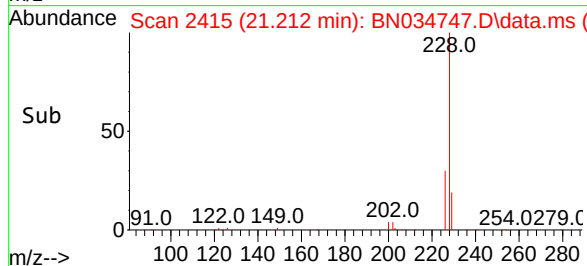
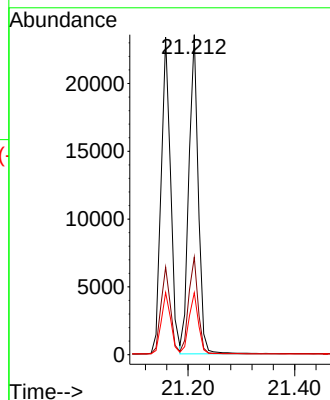
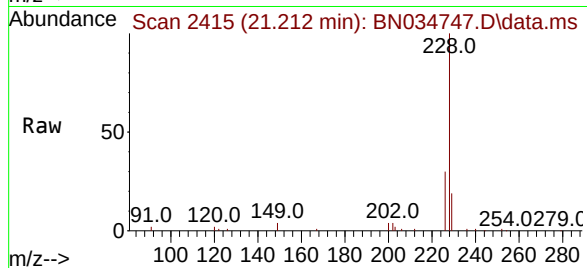
Tgt Ion:228 Resp: 28844

Ion Ratio Lower Upper

228 100

226 30.5 24.4 36.6

229 19.4 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.391 ng

RT: 21.122 min Scan# 2405

Delta R.T. -0.003 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

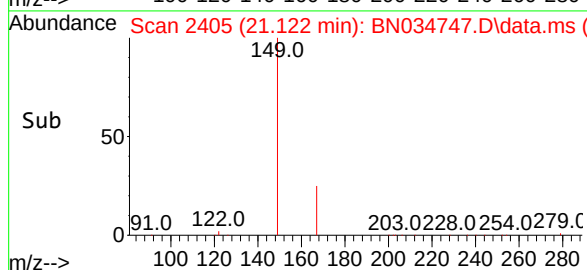
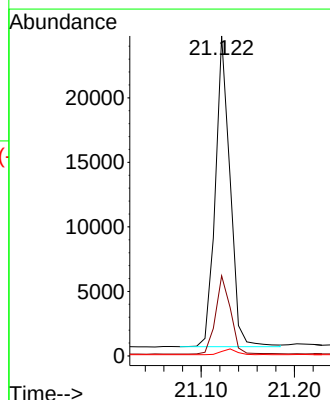
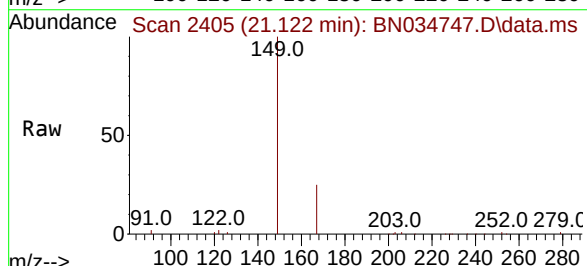
Tgt Ion:149 Resp: 26293

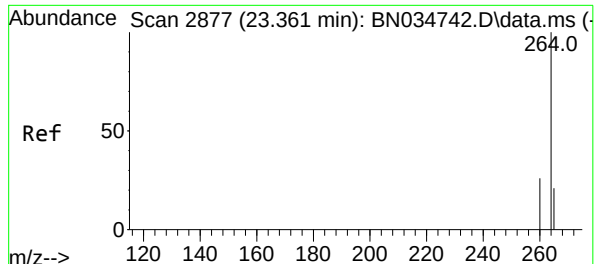
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 1.9 1.5 2.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.362 min Scan# 21

Delta R.T. 0.001 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

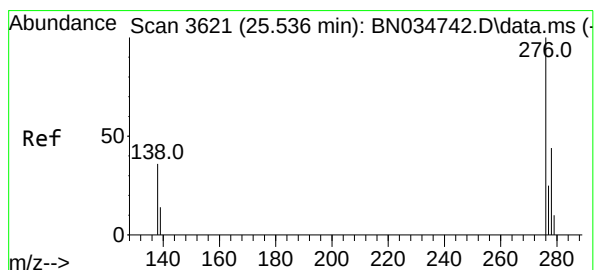
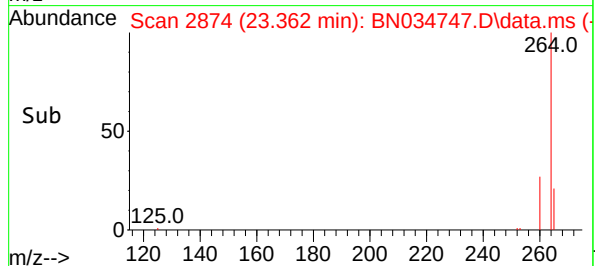
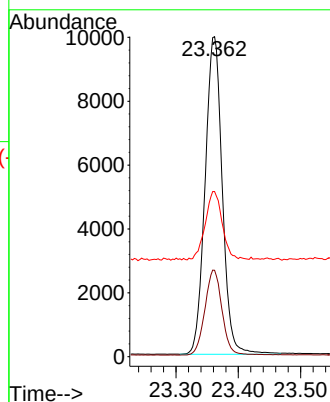
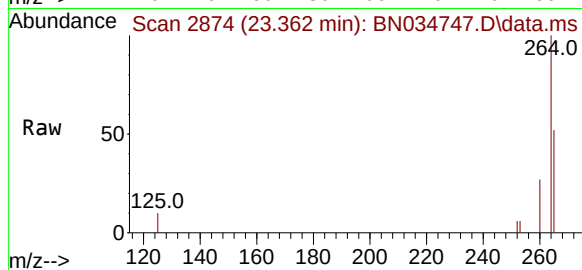
Tgt Ion:264 Resp: 19052

Ion Ratio Lower Upper

264 100

260 27.0 21.5 32.3

265 51.6 47.5 71.3



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.344 ng

RT: 25.537 min Scan# 3618

Delta R.T. 0.001 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

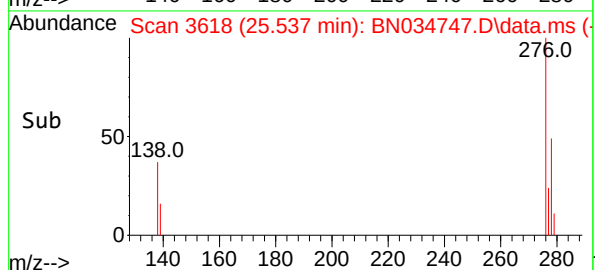
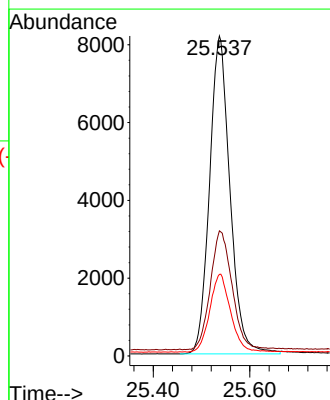
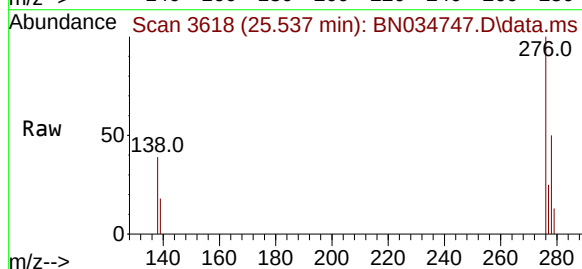
Tgt Ion:276 Resp: 24079

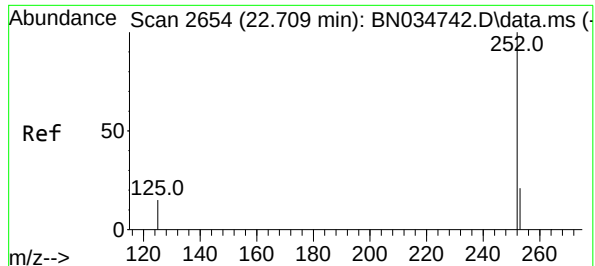
Ion Ratio Lower Upper

276 100

138 39.6 31.5 47.3

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.354 ng

RT: 22.710 min Scan# 2651

Delta R.T. 0.001 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

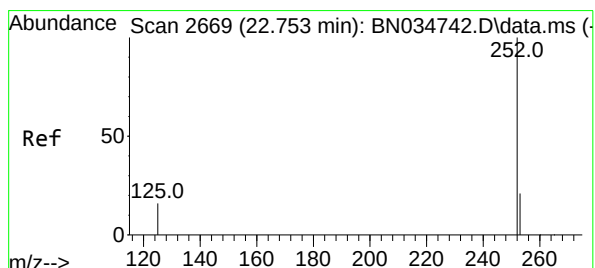
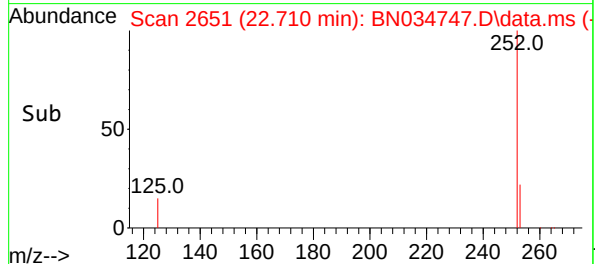
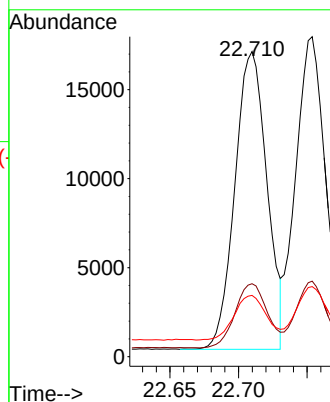
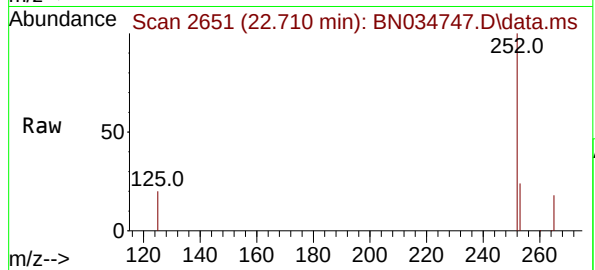
Tgt Ion:252 Resp: 27161

Ion Ratio Lower Upper

252 100

253 23.9 19.7 29.5

125 20.1 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.362 ng

RT: 22.754 min Scan# 2666

Delta R.T. 0.001 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

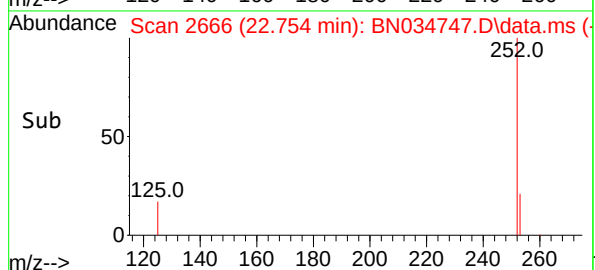
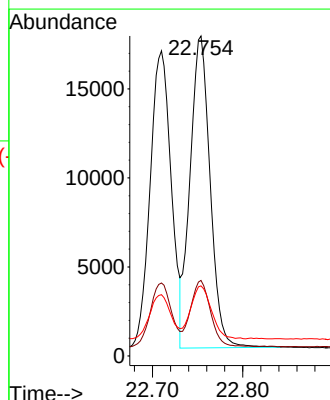
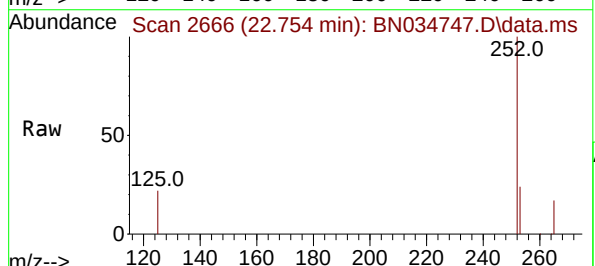
Tgt Ion:252 Resp: 27081

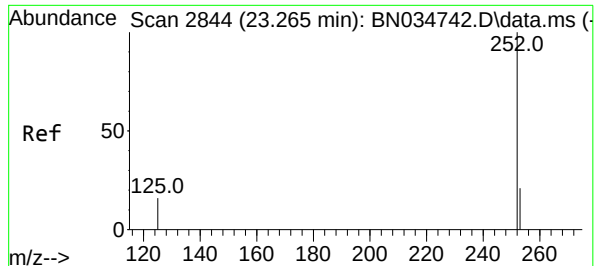
Ion Ratio Lower Upper

252 100

253 23.6 19.8 29.6

125 21.9 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.352 ng

RT: 23.262 min Scan# 21

Delta R.T. -0.002 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024

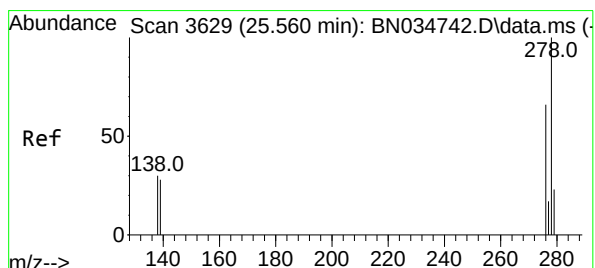
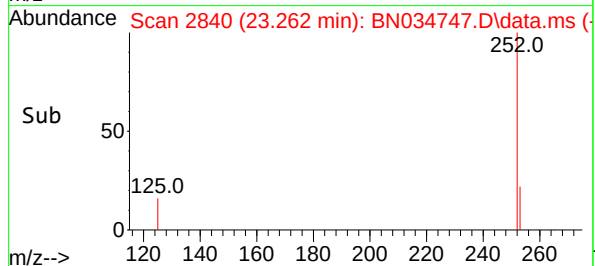
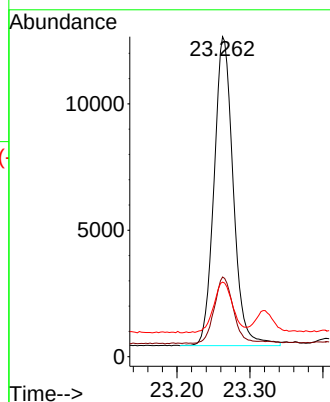
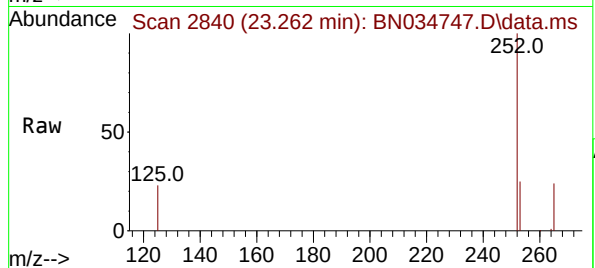
Tgt Ion:252 Resp: 22298

Ion Ratio Lower Upper

252 100

253 24.9 20.7 31.1

125 23.3 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.343 ng

RT: 25.558 min Scan# 3625

Delta R.T. -0.002 min

Lab File: BN034747.D

Acq: 30 Oct 2024 15:21

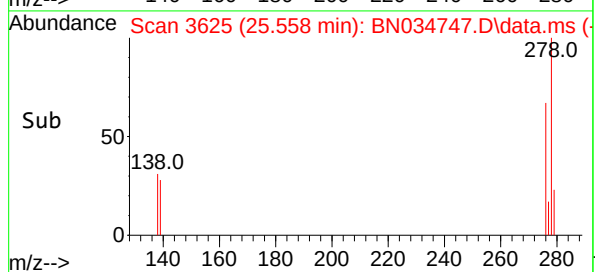
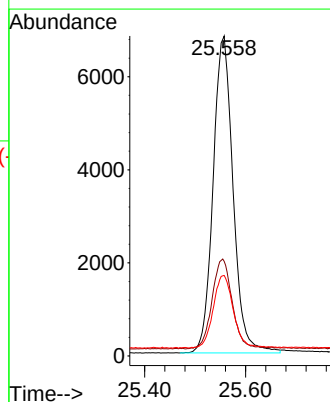
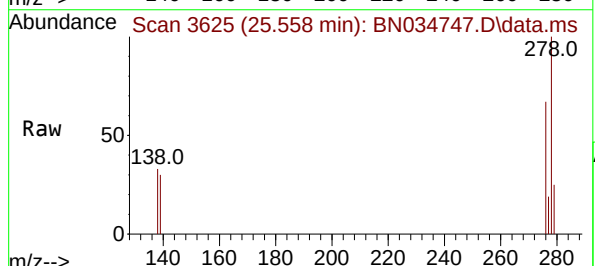
Tgt Ion:278 Resp: 18731

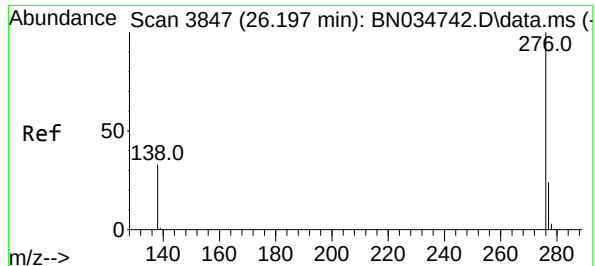
Ion Ratio Lower Upper

278 100

139 29.6 24.9 37.3

279 25.2 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.343 ng

RT: 26.195 min Scan# 3843

Delta R.T. -0.002 min

Lab File: BN034747.D

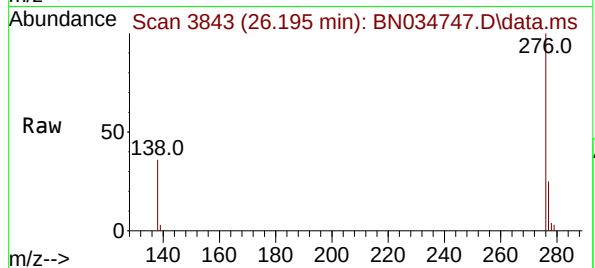
Acq: 30 Oct 2024 15:21

Instrument :

BNA_N

ClientSampleId :

ICVBN103024



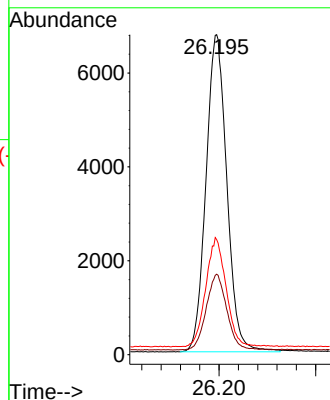
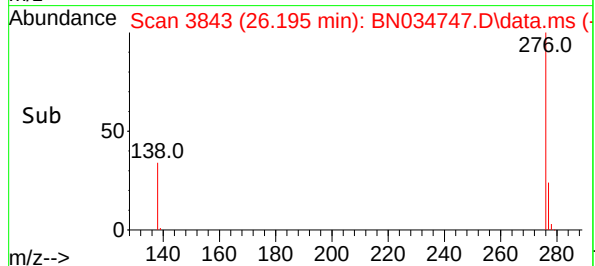
Tgt Ion:276 Resp: 20248

Ion Ratio Lower Upper

276 100

277 25.1 20.2 30.2

138 36.0 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034747.D
Acq On : 30 Oct 2024 15:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN103024

Quant Time: Oct 30 15:57:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	1,4-Dioxane	0.439	0.405	7.7	99	0.00
3	n-Nitrosodimethylamine	0.494	0.473	4.3	108	0.00
4 S	2-Fluorophenol	1.212	1.239	-2.2	113	0.00
5 S	Phenol-d6	1.574	1.592	-1.1	113	0.00
6	bis(2-Chloroethyl)ether	1.149	1.056	8.1	100	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	101	0.00
8 S	Nitrobenzene-d5	0.314	0.267	15.0	97	0.00
9	Naphthalene	1.106	0.986	10.8	100	-0.01
10	Hexachlorobutadiene	0.182	0.163	10.4	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.579	0.524	9.5	102	0.00
12	2-Methylnaphthalene	0.723	0.640	11.5	99	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.198	0.166	16.2	106	0.00
15 S	2-Fluorobiphenyl	1.575	1.346	14.5	100	0.00
16	Acenaphthylene	2.007	1.637	18.4	99	0.00
17	Acenaphthene	1.337	1.125	15.9	100	0.00
18	Fluorene	1.667	1.423	14.6	100	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.041	30.5#	96	0.00
21	4-Bromophenyl-phenylether	0.231	0.201	13.0	99	0.00
22	Hexachlorobenzene	0.259	0.231	10.8	100	0.00
23	Atrazine	0.199	0.173	13.1	100	0.00
24	Pentachlorophenol	0.112	0.103	8.0	117	0.00
25	Phenanthrene	1.176	1.079	8.2	104	0.00
26	Anthracene	1.101	0.976	11.4	102	0.00
27 SURR	Fluoranthene-d10	0.938	0.891	5.0	109	0.00
28	Fluoranthene	1.297	1.208	6.9	106	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	117	0.00
30	Pyrene	2.091	1.782	14.8	108	0.00
31 S	Terphenyl-d14	0.859	0.723	15.8	107	0.00
32	Benzo(a)anthracene	1.592	1.424	10.6	118	0.00
33	Chrysene	1.559	1.427	8.5	119	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	1.301	2.3	118	0.00
35 I	Perylene-d12	1.000	1.000	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.264	14.1	123	0.00
37	Benzo(b)fluoranthene	1.610	1.426	11.4	128	0.00
38	Benzo(k)fluoranthene	1.571	1.421	9.5	132	0.00
39 C	Benzo(a)pyrene	1.329	1.170	12.0	129	0.00
40	Dibenzo(a,h)anthracene	1.147	0.983	14.3	123	0.00
41	Benzo(g,h,i)perylene	1.240	1.063	14.3	121	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034747.D
Acq On : 30 Oct 2024 15:21
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN103024

Quant Time: Oct 30 15:57:34 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Oct 30 13:28:24 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	100	0.00
2	1,4-Dioxane	0.400	0.370	7.5	99	0.00
3	n-Nitrosodimethylamine	0.400	0.382	4.5	108	0.00
4 S	2-Fluorophenol	0.400	0.409	-2.2	113	0.00
5 S	Phenol-d6	0.400	0.404	-1.0	113	0.00
6	bis(2-Chloroethyl)ether	0.400	0.368	8.0	100	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	101	0.00
8 S	Nitrobenzene-d5	0.400	0.340	15.0	97	0.00
9	Naphthalene	0.400	0.356	11.0	100	-0.01
10	Hexachlorobutadiene	0.400	0.357	10.8	100	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.362	9.5	102	0.00
12	2-Methylnaphthalene	0.400	0.354	11.5	99	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.400	0.336	16.0	106	0.00
15 S	2-Fluorobiphenyl	0.400	0.342	14.5	100	0.00
16	Acenaphthylene	0.400	0.326	18.5	99	0.00
17	Acenaphthene	0.400	0.336	16.0	100	0.00
18	Fluorene	0.400	0.341	14.8	100	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	103	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.396	1.0	96	0.00
21	4-Bromophenyl-phenylether	0.400	0.348	13.0	99	0.00
22	Hexachlorobenzene	0.400	0.356	11.0	100	0.00
23	Atrazine	0.400	0.347	13.3	100	0.00
24	Pentachlorophenol	0.400	0.369	7.8	117	0.00
25	Phenanthrene	0.400	0.367	8.3	104	0.00
26	Anthracene	0.400	0.354	11.5	102	0.00
27 SURR	Fluoranthene-d10	0.400	0.380	5.0	109	0.00
28	Fluoranthene	0.400	0.373	6.8	106	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	117	0.00
30	Pyrene	0.400	0.341	14.8	108	0.00
31 S	Terphenyl-d14	0.400	0.337	15.8	107	0.00
32	Benzo(a)anthracene	0.400	0.358	10.5	118	0.00
33	Chrysene	0.400	0.366	8.5	119	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.391	2.3	118	0.00
35 I	Perylene-d12	0.400	0.400	0.0	130	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.344	14.0	123	0.00
37	Benzo(b)fluoranthene	0.400	0.354	11.5	128	0.00
38	Benzo(k)fluoranthene	0.400	0.362	9.5	132	0.00
39 C	Benzo(a)pyrene	0.400	0.352	12.0	129	0.00
40	Dibenzo(a,h)anthracene	0.400	0.343	14.2	123	0.00
41	Benzo(g,h,i)perylene	0.400	0.343	14.2	121	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4600 SAS No.: P4600 SDG No.: P4600

Instrument ID: BNA_N Calibration Date/Time: 11/04/2024 21:33

Lab File ID: BN034850.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.495		-14.5	20.0
Fluoranthene-d10	0.938	0.829		-11.6	20.0
2-Fluorophenol	1.212	1.320		8.9	20.0
Phenol-d6	1.574	1.837		16.7	20.0
Nitrobenzene-d5	0.314	0.268		-14.6	20.0
2-Fluorobiphenyl	1.575	1.396		-11.4	20.0
2,4,6-Tribromophenol	0.198	0.157		-20.7	20.0
Terphenyl-d14	0.859	0.690		-19.7	20.0
1,4-Dioxane	0.439	0.410		-6.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034850.D
 Acq On : 04 Nov 2024 21:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

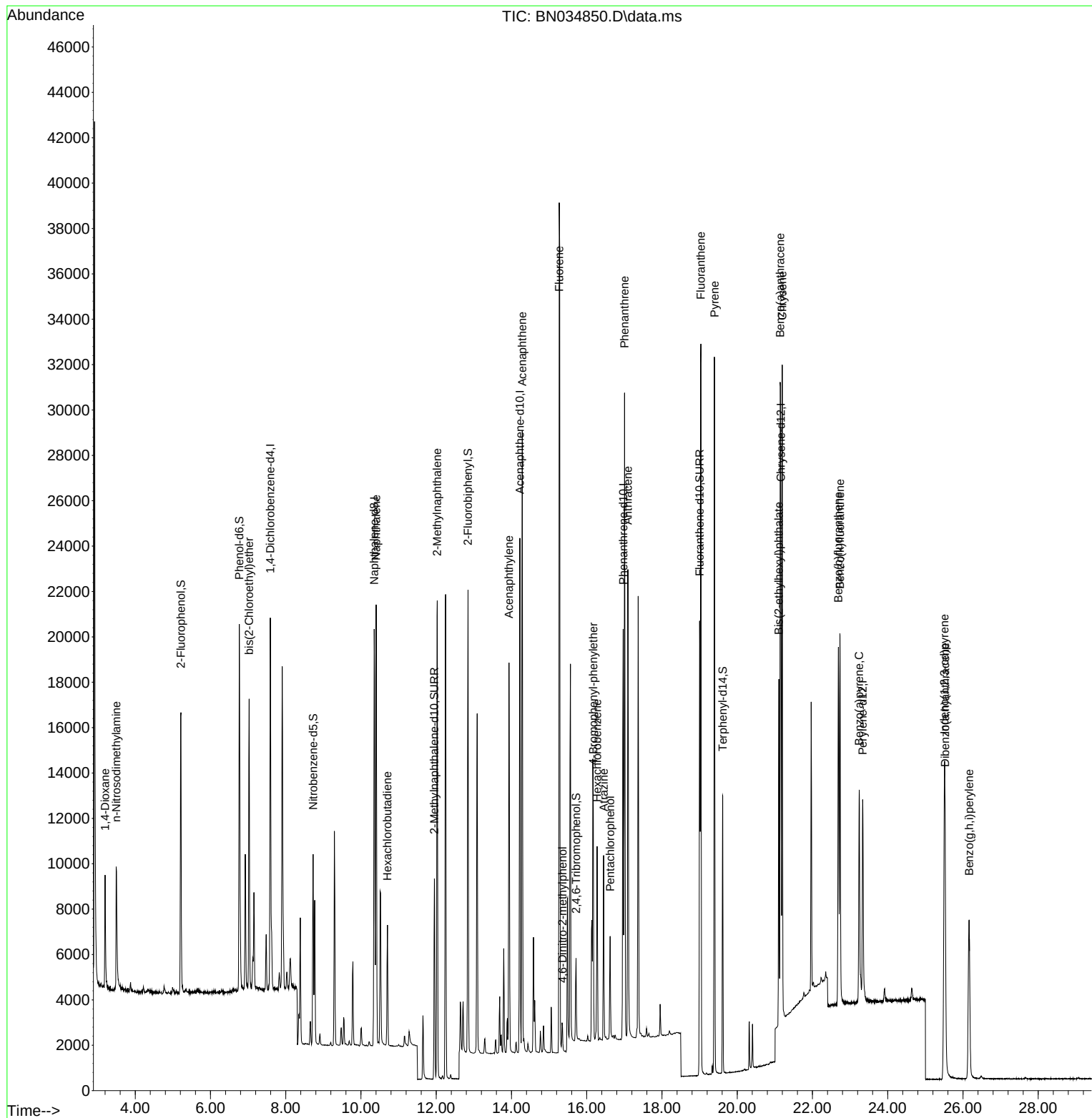
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	7674	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	23850	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	12009	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	23508	0.400	ng	0.00
29) Chrysene-d12	21.160	240	14579	0.400	ng	# 0.00
35) Perylene-d12	23.335	264	11281	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	10132	0.436	ng	0.00
5) Phenol-d6	6.766	99	14098	0.467	ng	0.00
8) Nitrobenzene-d5	8.728	82	6385	0.341	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	11814	0.342	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1886	0.318	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	16764	0.354	ng	0.00
27) Fluoranthene-d10	19.001	212	19478	0.353	ng	0.00
31) Terphenyl-d14	19.615	244	10056	0.321	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	3144	0.374	ng	92
3) n-Nitrosodimethylamine	3.494	42	4129	0.435	ng	# 85
6) bis(2-Chloroethyl)ether	7.026	93	8704	0.395	ng	97
9) Naphthalene	10.404	128	23856	0.362	ng	99
10) Hexachlorobutadiene	10.703	225	3900	0.359	ng	# 99
12) 2-Methylnaphthalene	12.026	142	14586	0.338	ng	99
16) Acenaphthylene	13.934	152	18997	0.315	ng	100
17) Acenaphthene	14.286	154	13333	0.332	ng	95
18) Fluorene	15.270	166	16800	0.336	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	752	0.347	ng	88
21) 4-Bromophenyl-phenylether	16.175	248	4638	0.341	ng	92
22) Hexachlorobenzene	16.275	284	5661	0.372	ng	94
23) Atrazine	16.448	200	5580	0.477	ng	97
24) Pentachlorophenol	16.622	266	2026	0.309	ng	98
25) Phenanthrene	17.007	178	26321	0.381	ng	100
26) Anthracene	17.094	178	22246	0.344	ng	99
28) Fluoranthene	19.034	202	27481	0.361	ng	99
30) Pyrene	19.396	202	28018	0.368	ng	100
32) Benzo(a)anthracene	21.143	228	20082	0.346	ng	100
33) Chrysene	21.196	228	21768	0.383	ng	99
34) Bis(2-ethylhexyl)phtha...	21.107	149	13933	0.287	ng	96
36) Indeno(1,2,3-cd)pyrene	25.504	276	15750	0.380	ng	94
37) Benzo(b)fluoranthene	22.689	252	17915	0.394	ng	97
38) Benzo(k)fluoranthene	22.730	252	18784	0.424	ng	97
39) Benzo(a)pyrene	23.241	252	13171	0.351	ng	96
40) Dibenzo(a,h)anthracene	25.525	278	12198	0.377	ng	99
41) Benzo(g,h,i)perylene	26.165	276	12966	0.371	ng	96

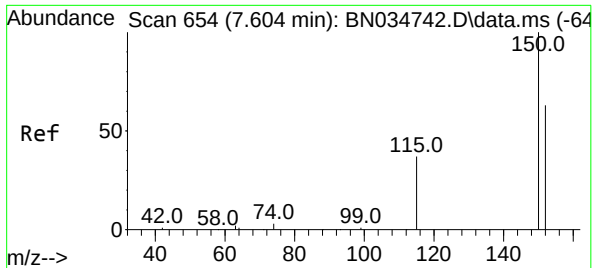
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034850.D
Acq On : 04 Nov 2024 21:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

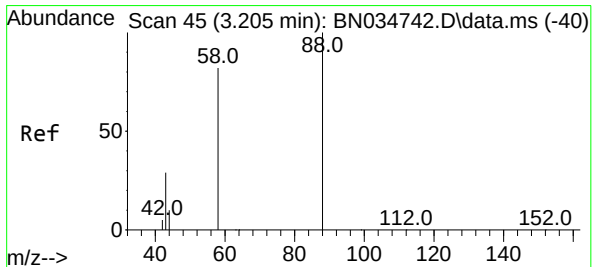
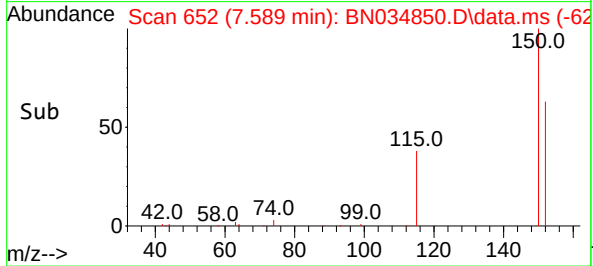
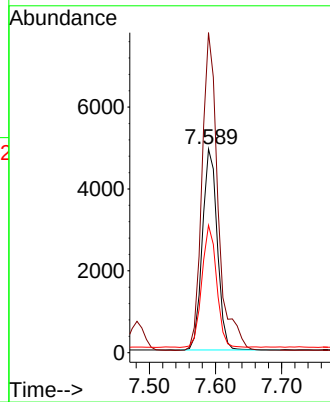
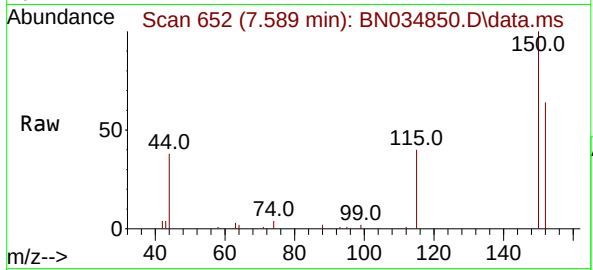




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

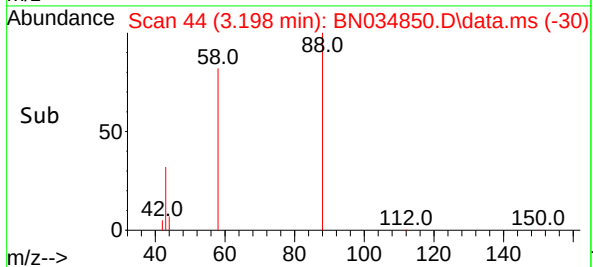
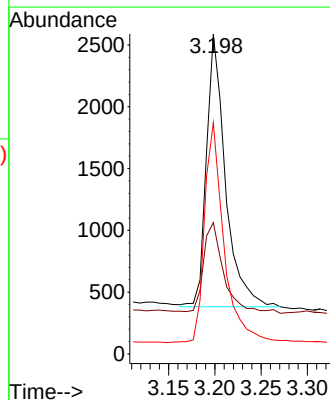
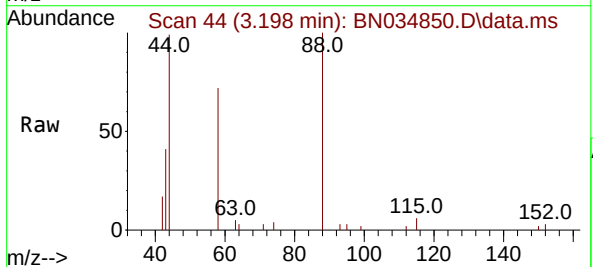
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7674
Ion Ratio Lower Upper
152 100
150 157.2 124.9 187.3
115 62.5 50.2 75.2

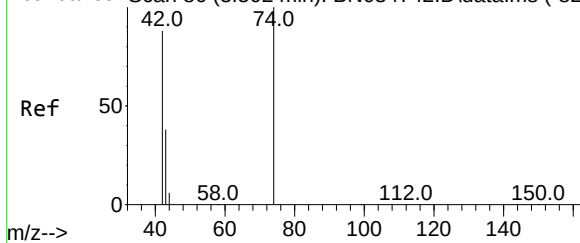


#2
1,4-Dioxane
Concen: 0.374 ng
RT: 3.198 min Scan# 44
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion: 88 Resp: 3144
Ion Ratio Lower Upper
88 100
43 35.8 26.7 40.1
58 82.6 59.3 88.9



Abundance Scan 86 (3.502 min): BN034742.D\data.ms (-82)



#3

n-Nitrosodimethylamine

Concen: 0.435 ng

RT: 3.494 min Scan# 81

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 4129

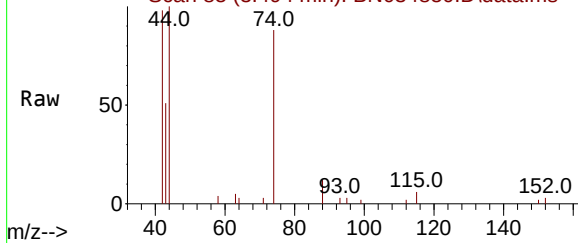
Ion Ratio Lower Upper

42 100

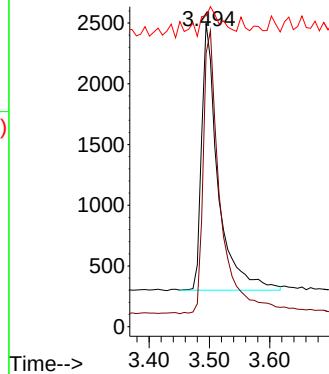
74 110.6 103.1 154.7

44 11.0 6.7 10.1#

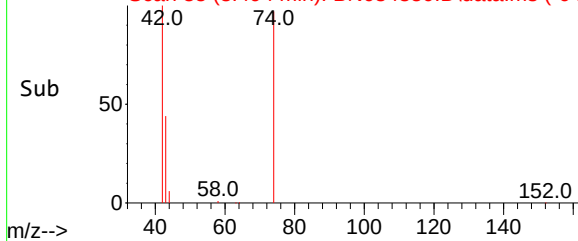
Abundance Scan 85 (3.494 min): BN034850.D\data.ms



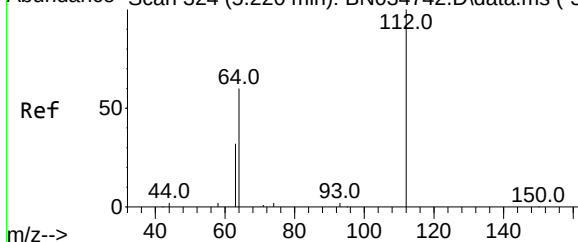
Abundance



Abundance Scan 85 (3.494 min): BN034850.D\data.ms (-64)



Abundance Scan 324 (5.220 min): BN034742.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.436 ng

RT: 5.213 min Scan# 323

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Tgt Ion: 112 Resp: 10132

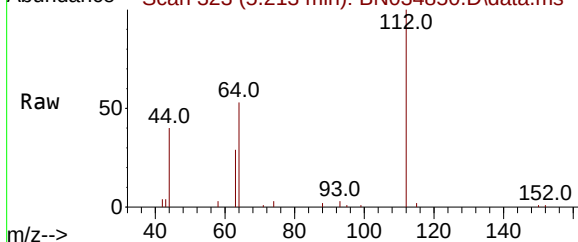
Ion Ratio Lower Upper

112 100

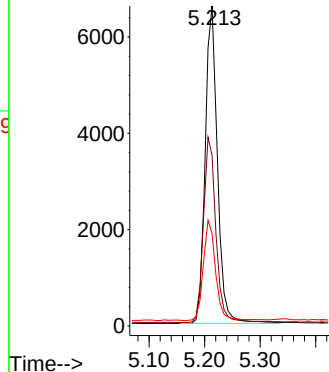
64 59.5 44.9 67.3

63 31.8 23.5 35.3

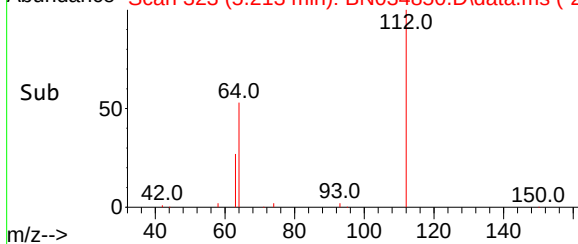
Abundance Scan 323 (5.213 min): BN034850.D\data.ms

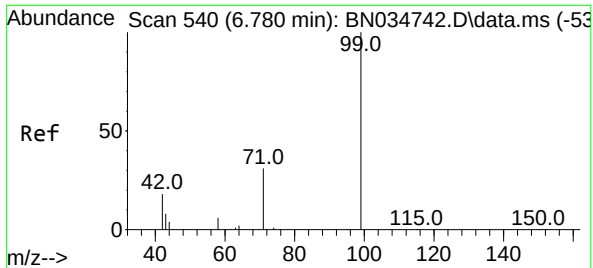


Abundance



Abundance Scan 323 (5.213 min): BN034850.D\data.ms (-29)

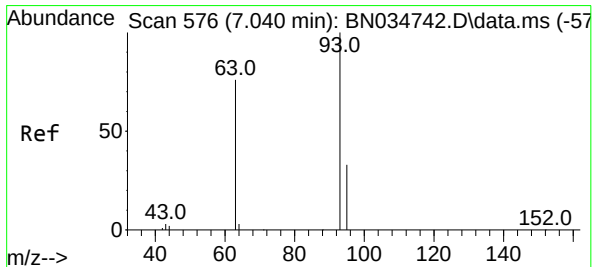
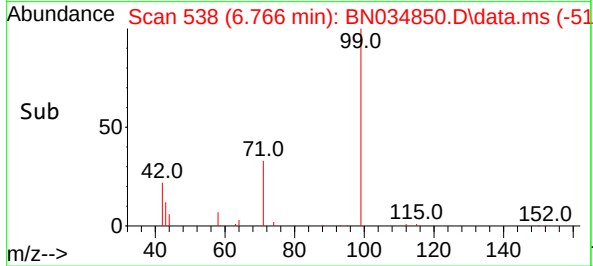
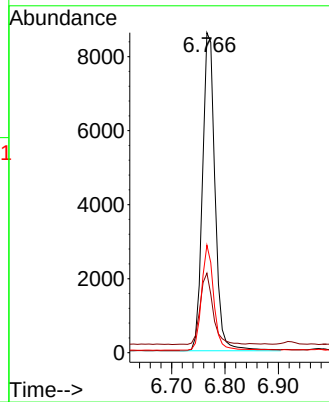
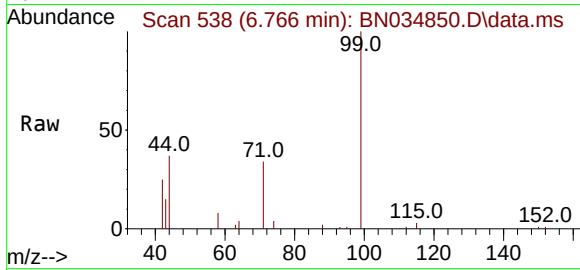




#5
Phenol-d6
Concen: 0.467 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

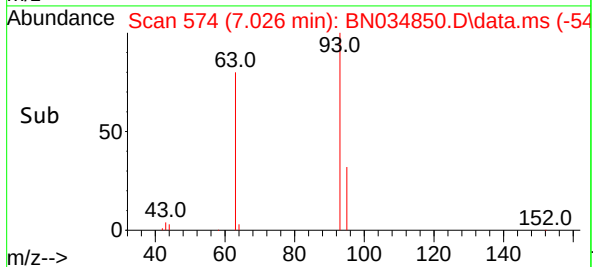
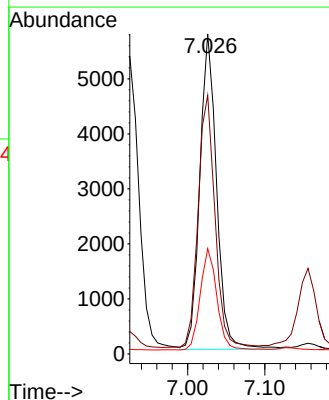
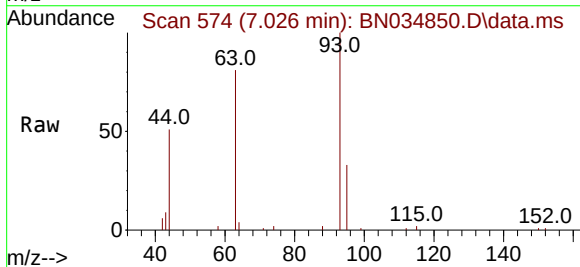
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

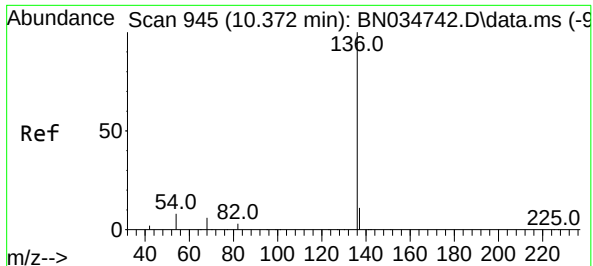
Tgt Ion: 99 Resp: 14098
Ion Ratio Lower Upper
99 100
42 22.8 15.9 23.9
71 32.1 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.026 min Scan# 574
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion: 93 Resp: 8704
Ion Ratio Lower Upper
93 100
63 80.2 61.2 91.8
95 31.7 25.8 38.8

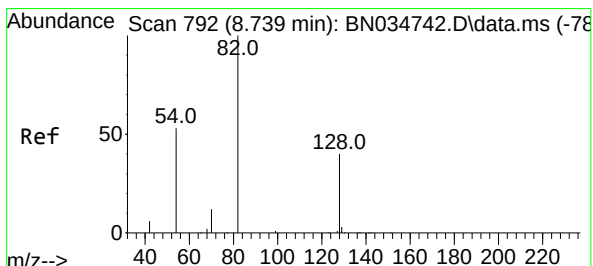
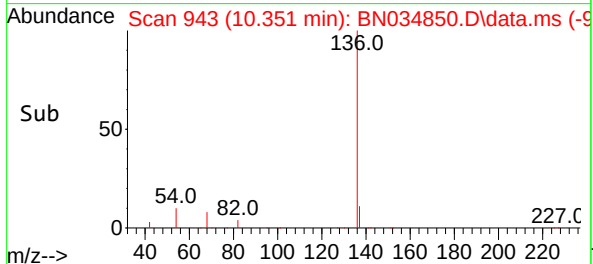
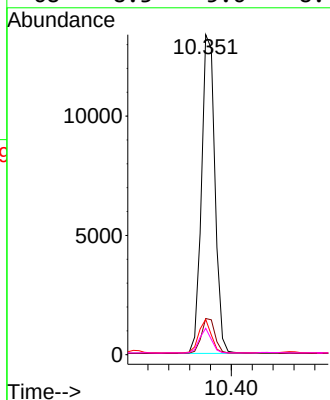
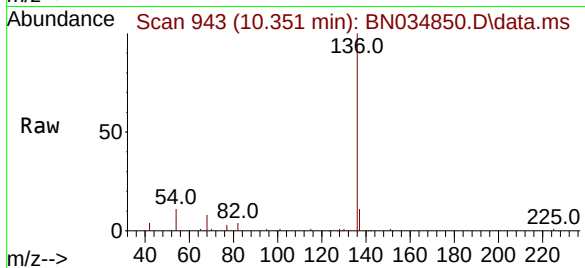




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

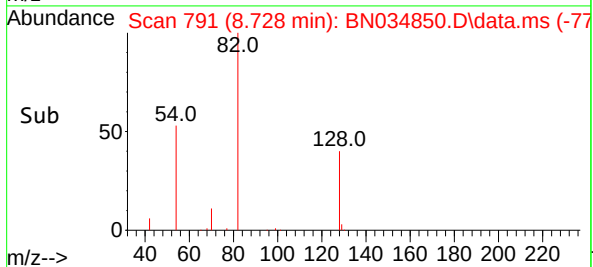
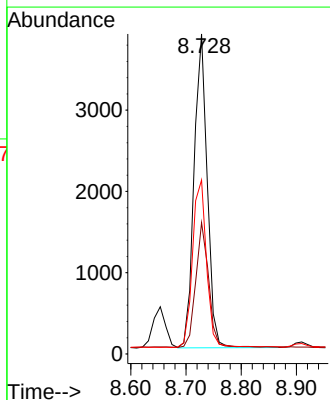
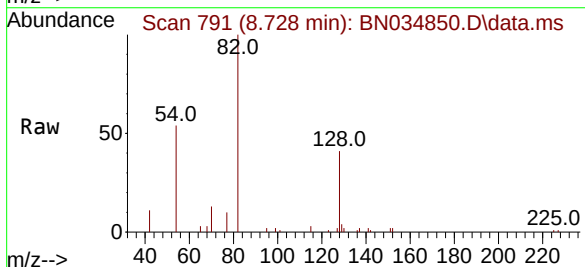
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

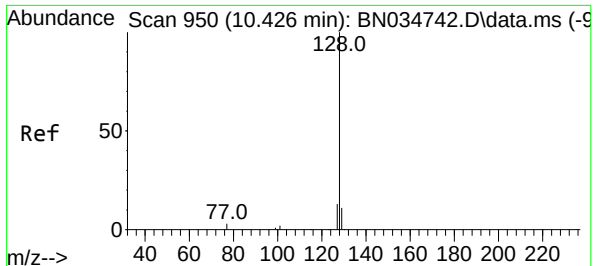
Tgt Ion:	136	Resp:	23850
Ion Ratio	Lower	Upper	
136	100		
137	11.3	9.2	13.8
54	11.0	7.0	10.4
68	8.3	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.341 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:	82	Resp:	6385
Ion Ratio	Lower	Upper	
82	100		
128	41.0	33.7	50.5
54	54.4	44.4	66.6

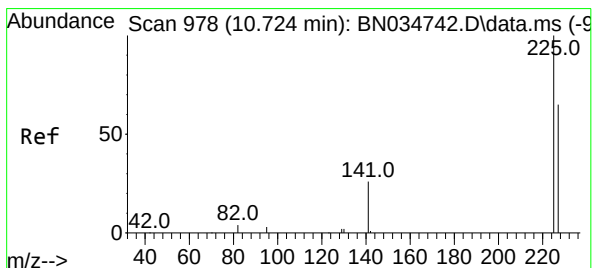
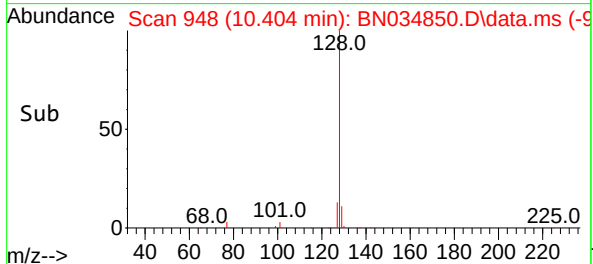
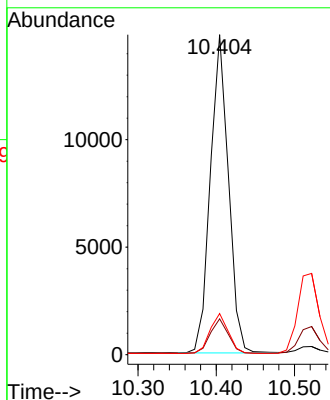
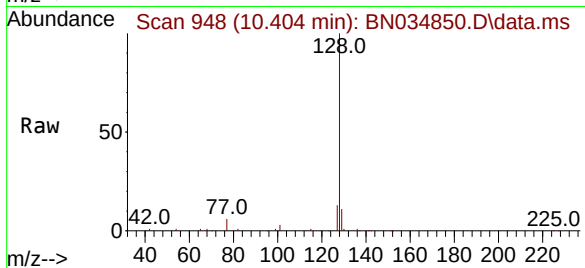




#9
Naphthalene
Concen: 0.362 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

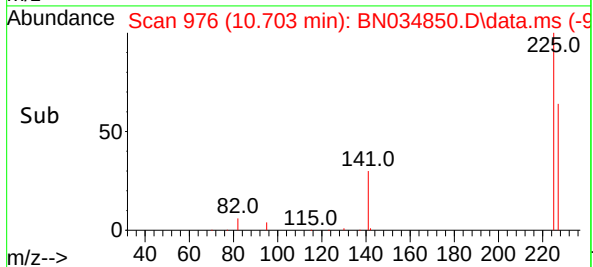
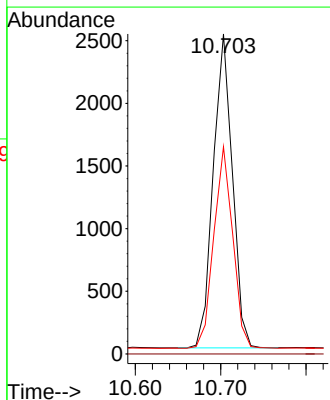
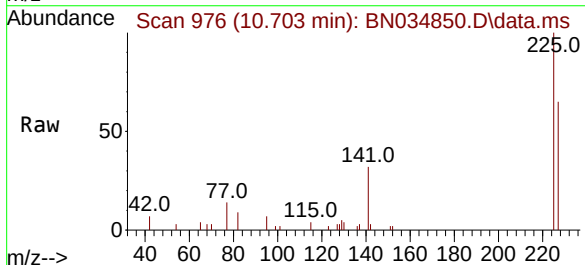
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

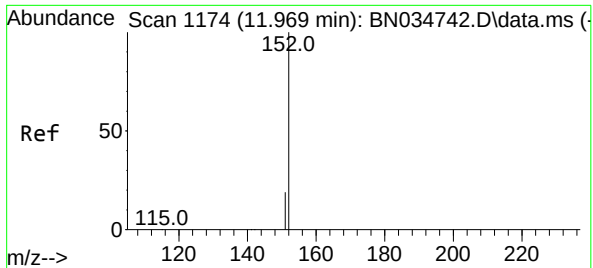
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.4	14.0
127	12.8	10.6	15.8



#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.703 min Scan# 976
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.4	77.2

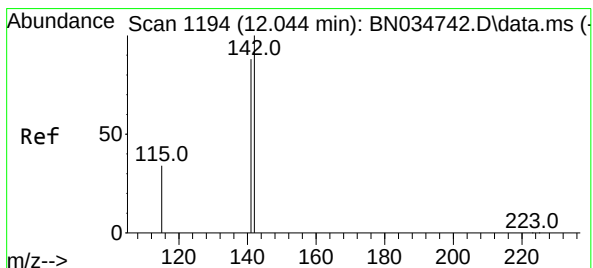
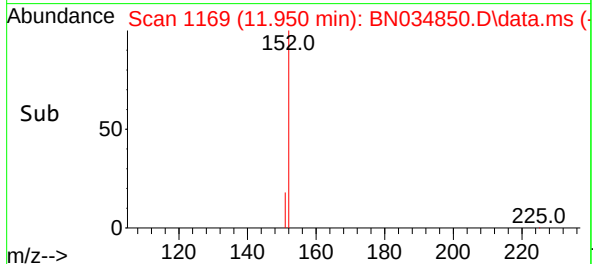
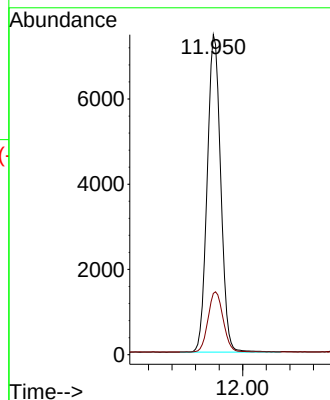
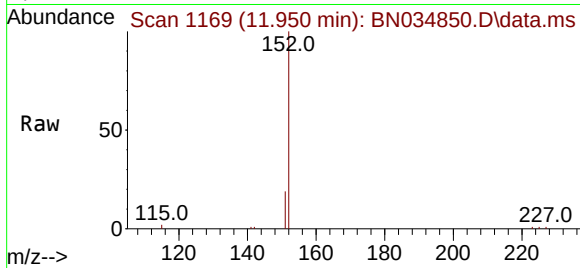




#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 11.950 min Scan# 1189
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

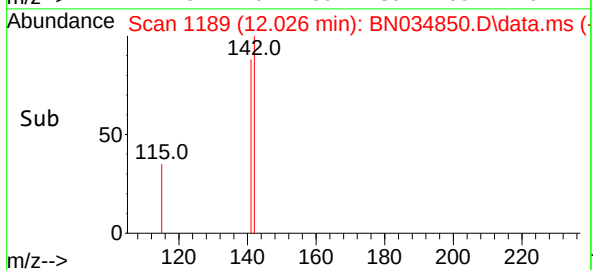
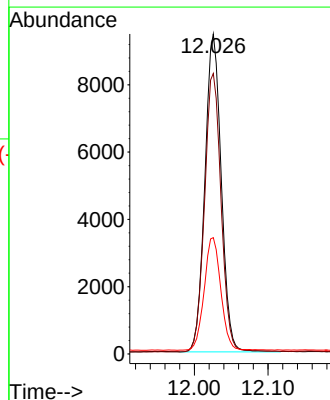
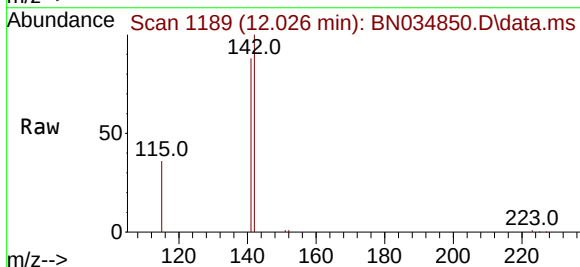
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

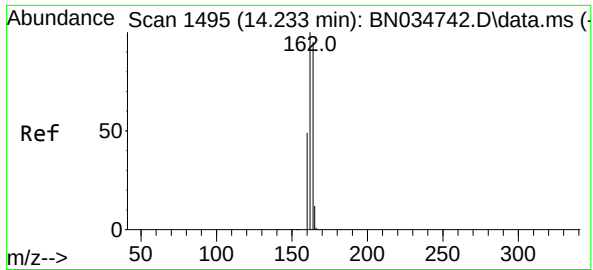
Tgt Ion:152 Resp: 11814
Ion Ratio Lower Upper
152 100
151 21.1 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.338 ng
RT: 12.026 min Scan# 1189
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:142 Resp: 14586
Ion Ratio Lower Upper
142 100
141 87.6 70.6 106.0
115 36.3 28.6 42.8

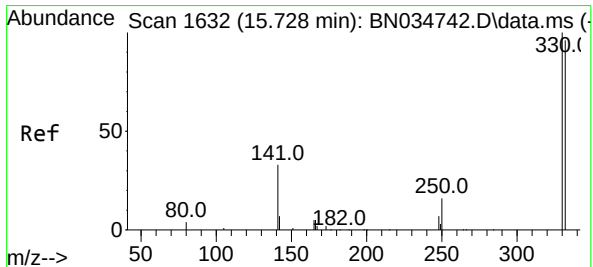
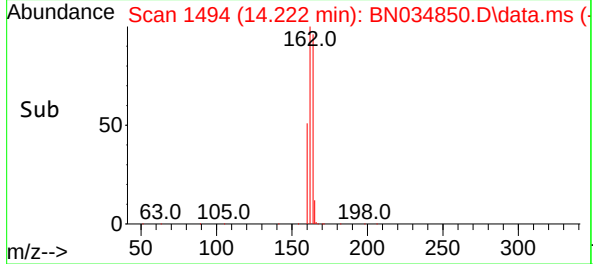
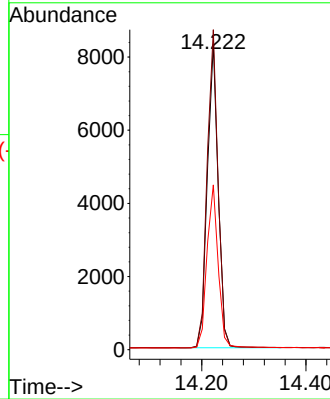
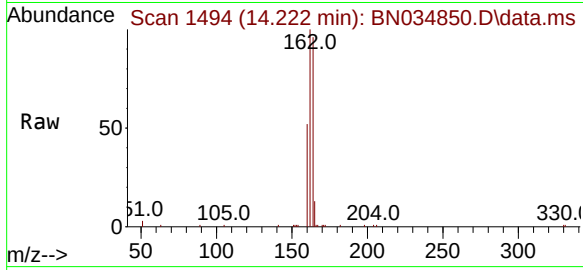




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

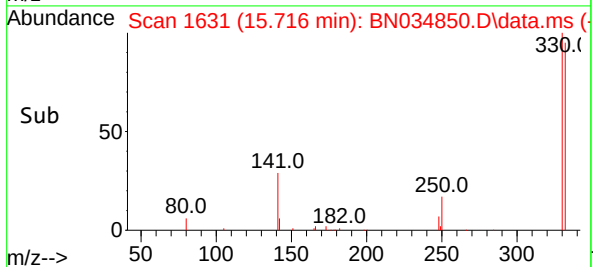
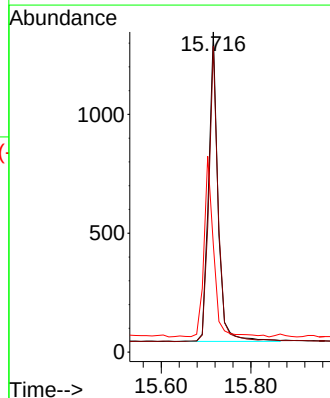
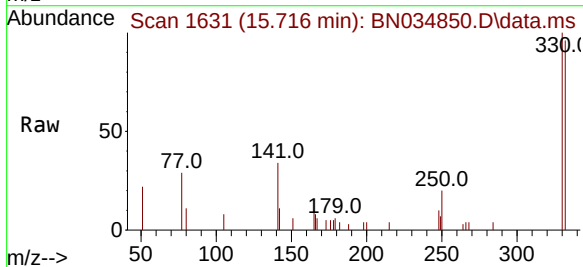
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

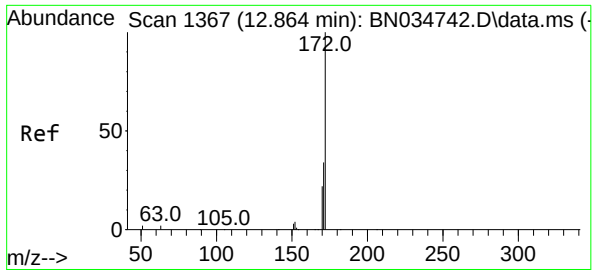
Tgt Ion:164 Resp: 12009
Ion Ratio Lower Upper
164 100
162 104.6 84.3 126.5
160 53.9 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.318 ng
RT: 15.716 min Scan# 1631
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:330 Resp: 1886
Ion Ratio Lower Upper
330 100
332 96.1 77.8 116.6
141 60.1 41.0 61.4

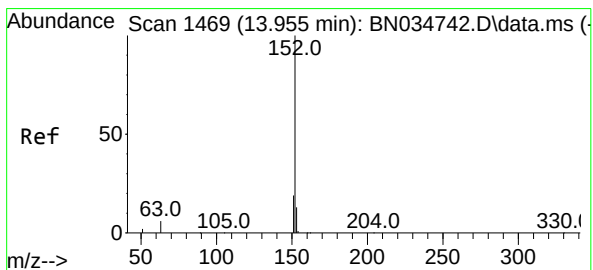
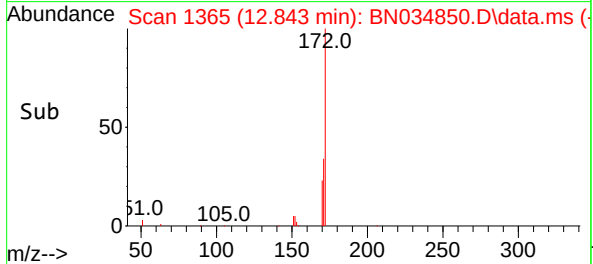
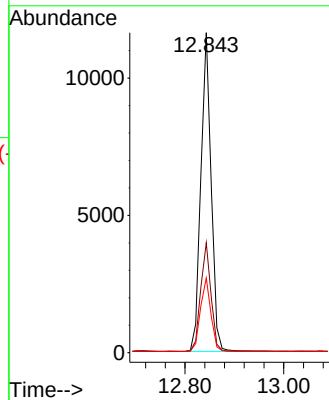
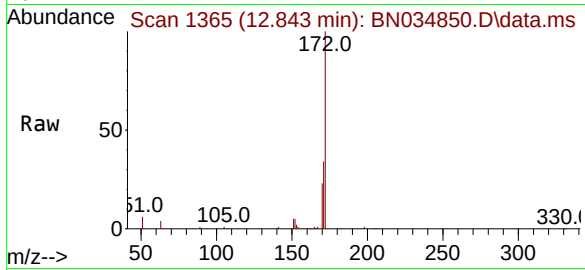




#15
2-Fluorobiphenyl
Concen: 0.354 ng
RT: 12.843 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

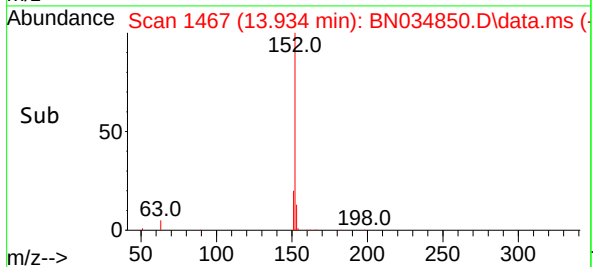
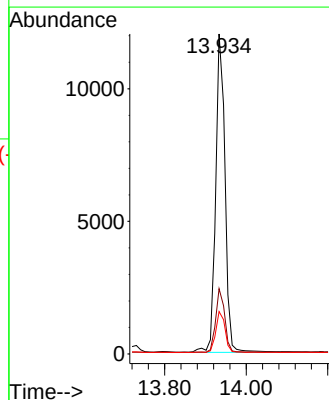
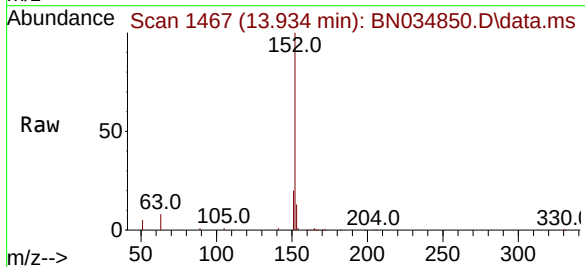
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

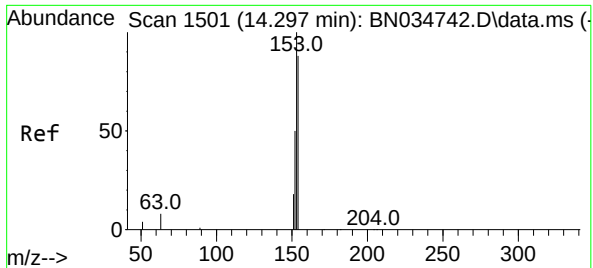
Tgt Ion:	172	Resp:	16764
Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.2	40.8
170	23.4	18.0	27.0



#16
Acenaphthylene
Concen: 0.315 ng
RT: 13.934 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:	152	Resp:	18997
Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	12.8	10.2	15.4

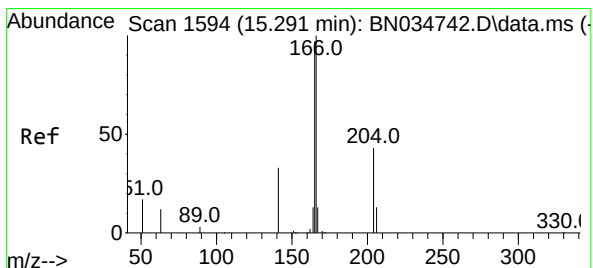
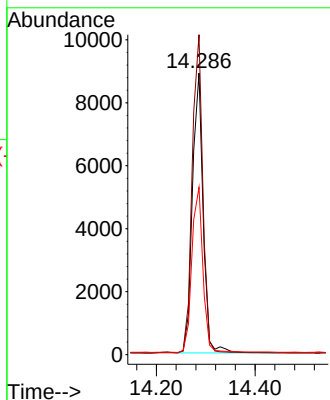
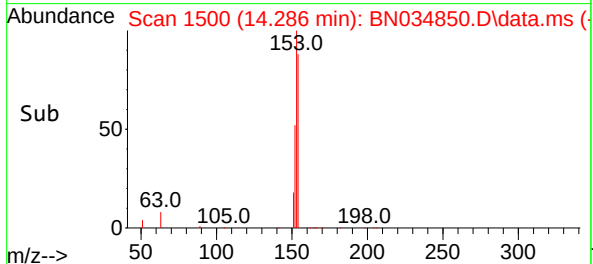
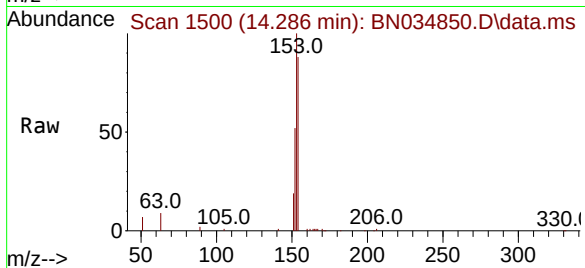




#17
Acenaphthene
Concen: 0.332 ng
RT: 14.286 min Scan# 1500
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

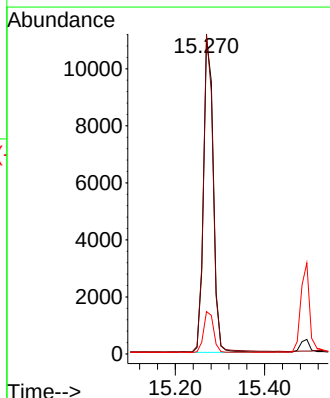
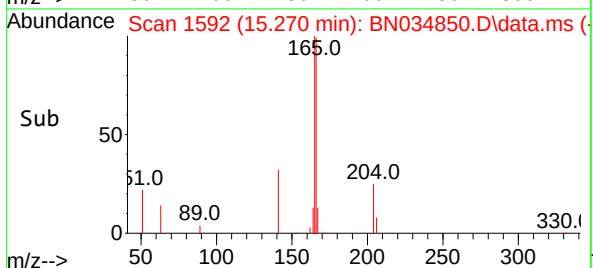
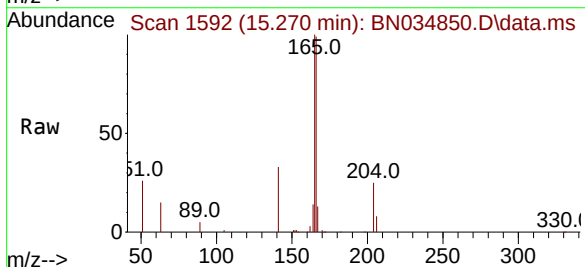
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

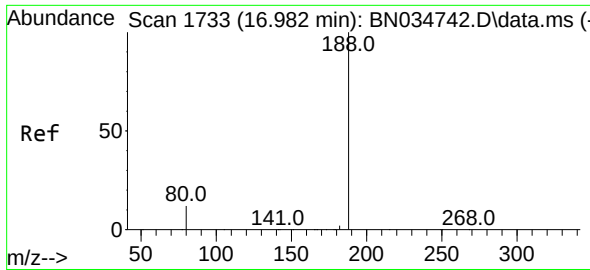
Tgt Ion:154 Resp: 13333
Ion Ratio Lower Upper
154 100
153 113.0 87.8 131.6
152 61.5 44.6 67.0



#18
Fluorene
Concen: 0.336 ng
RT: 15.270 min Scan# 1592
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:166 Resp: 16800
Ion Ratio Lower Upper
166 100
165 99.1 78.5 117.7
167 13.2 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.970 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

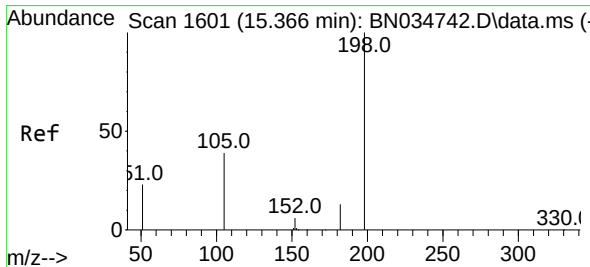
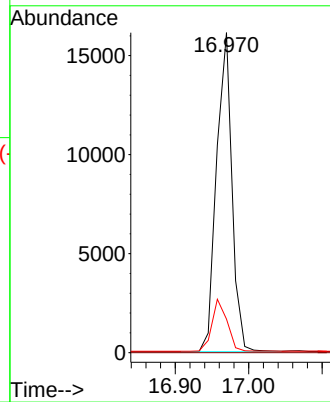
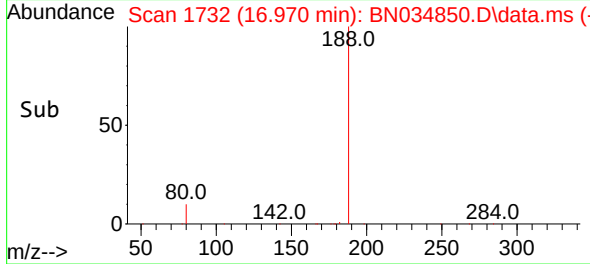
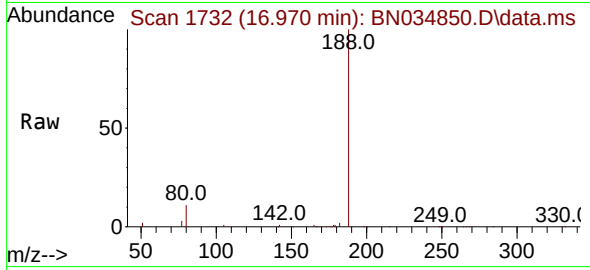
Tgt Ion:188 Resp: 23508

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.5 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.347 ng

RT: 15.355 min Scan# 1600

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

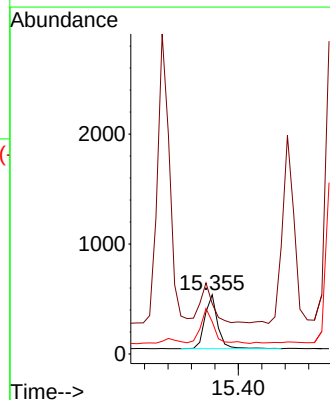
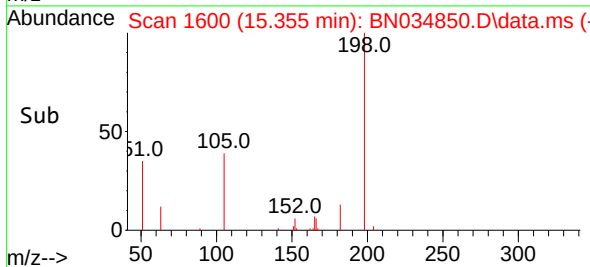
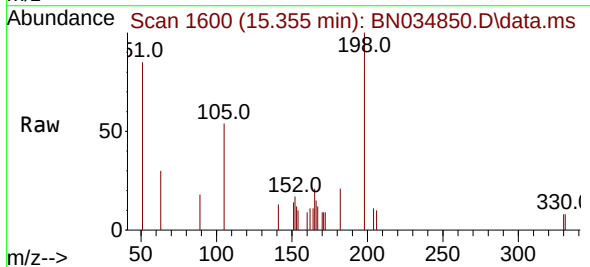
Tgt Ion:198 Resp: 752

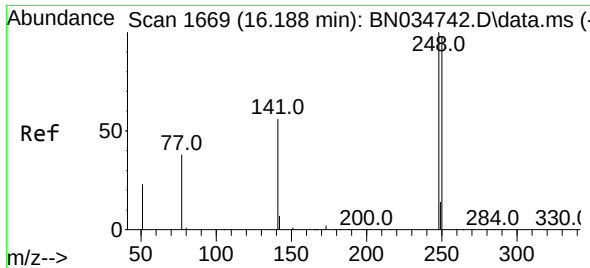
Ion Ratio Lower Upper

198 100

51 84.9 58.0 87.0

105 54.5 49.1 73.7

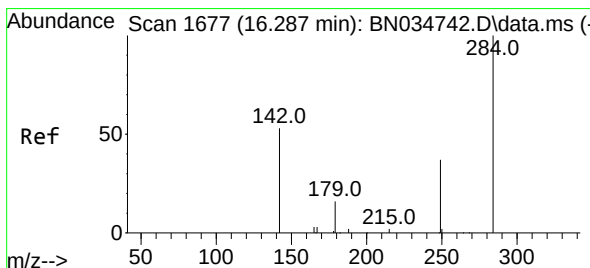
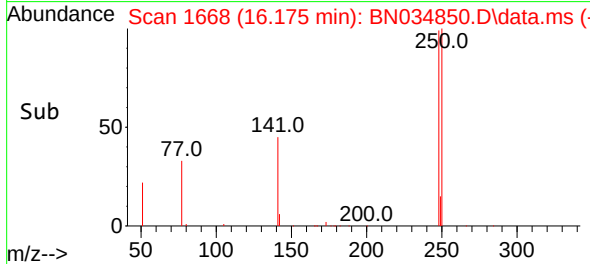
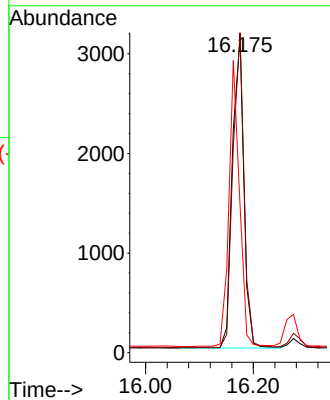
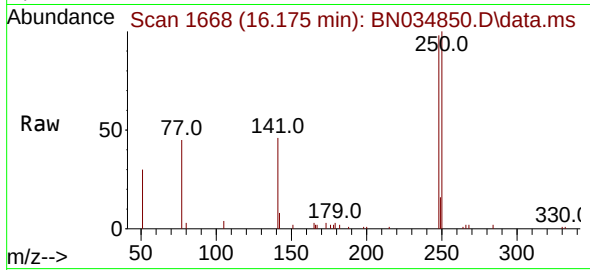




#21
4-Bromophenyl-phenylether
Concen: 0.341 ng
RT: 16.175 min Scan# 1668
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

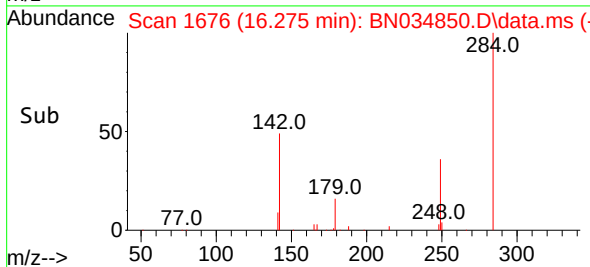
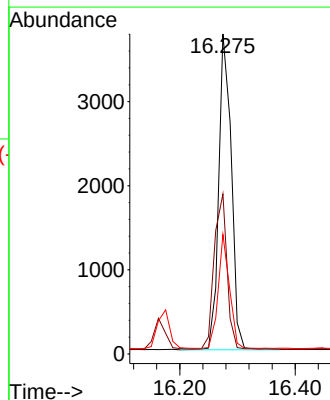
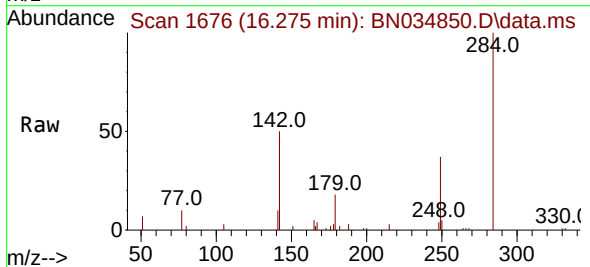
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

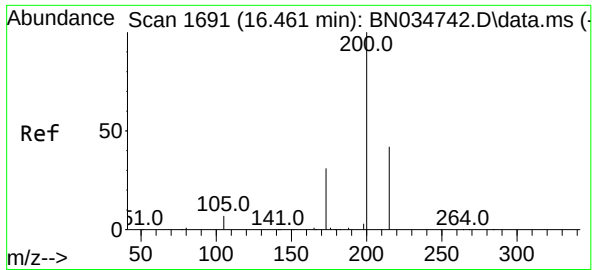
Tgt Ion:248 Resp: 4638
Ion Ratio Lower Upper
248 100
250 101.5 78.7 118.1
141 46.7 46.4 69.6



#22
Hexachlorobenzene
Concen: 0.372 ng
RT: 16.275 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:284 Resp: 5661
Ion Ratio Lower Upper
284 100
142 50.3 35.4 53.0
249 32.6 25.7 38.5

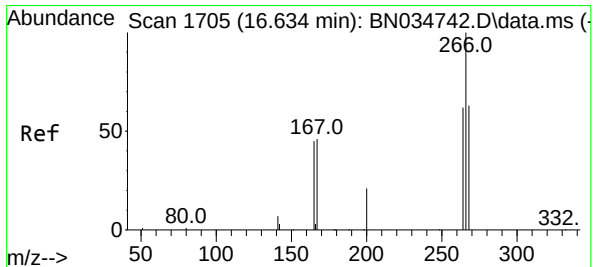
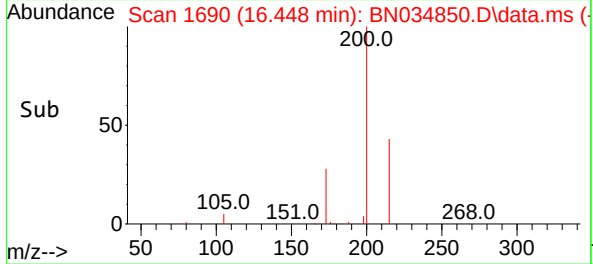
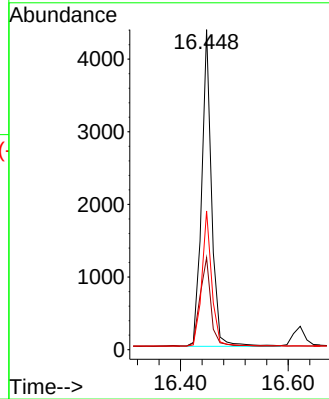
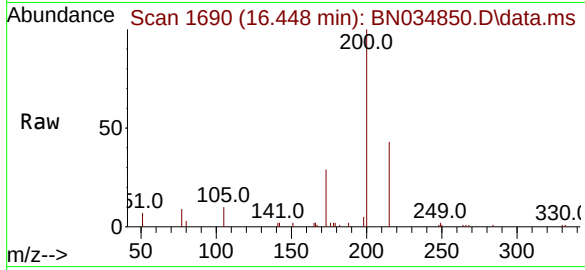




#23
Atrazine
Concen: 0.477 ng
RT: 16.448 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

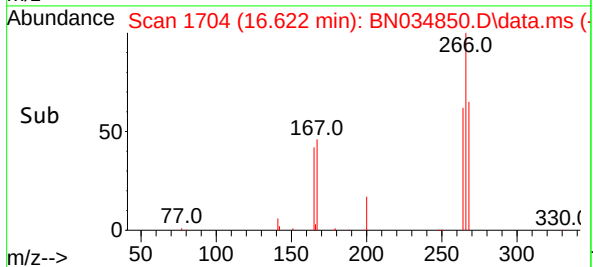
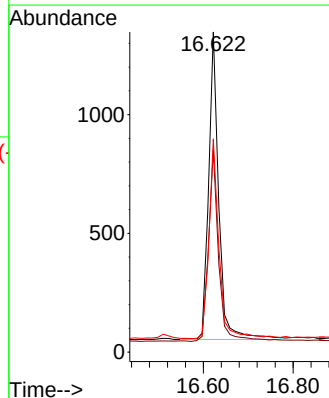
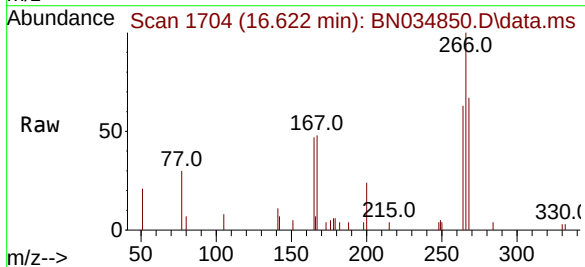
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

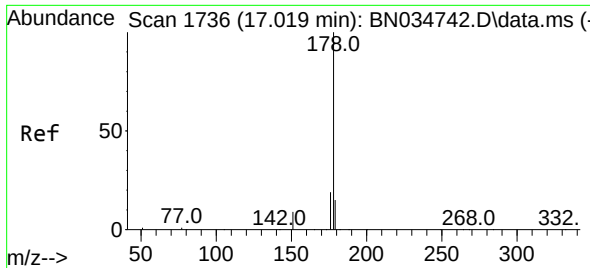
Tgt Ion:	200	Resp:	5580
Ion Ratio	Lower	Upper	
200	100		
173	28.7	25.8	38.6
215	43.4	34.2	51.4



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.622 min Scan# 1704
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:	266	Resp:	2026
Ion Ratio	Lower	Upper	
266	100		
264	62.1	48.7	73.1
268	64.9	50.2	75.4

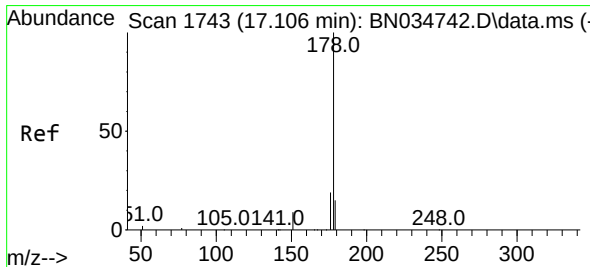
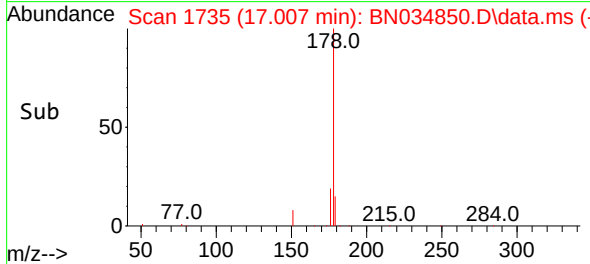
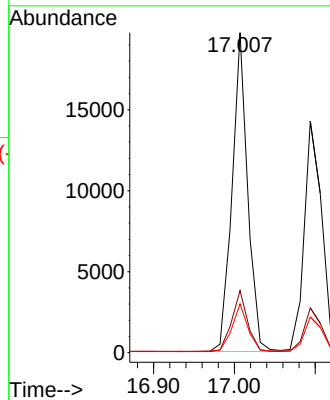
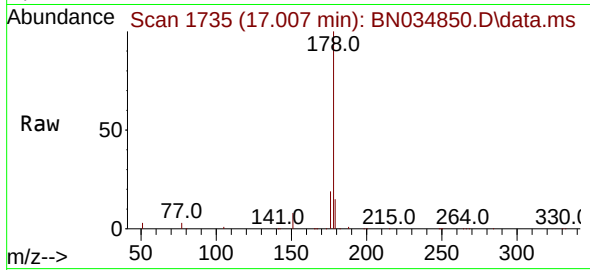




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.007 min Scan# 1742
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

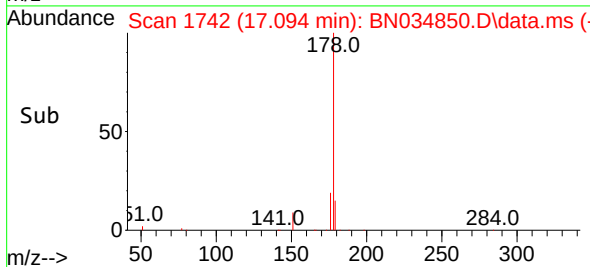
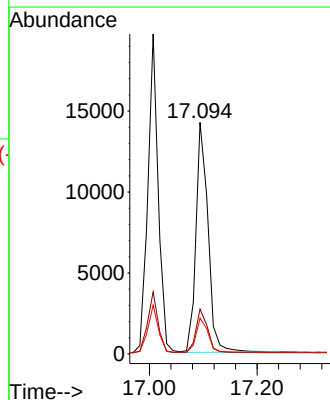
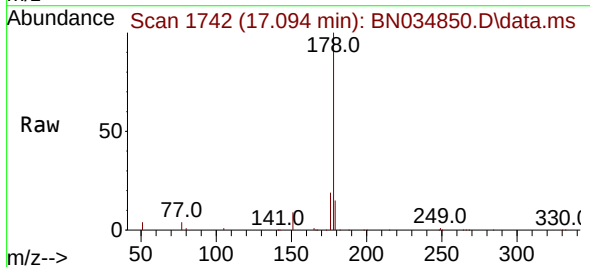
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

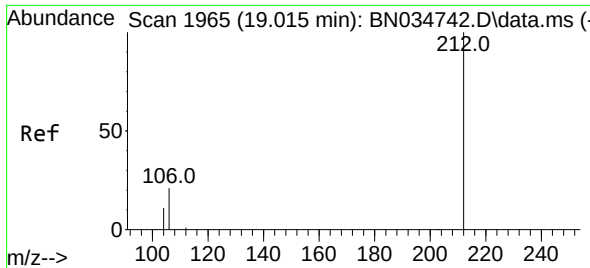
Tgt Ion:178 Resp: 26321
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.344 ng
RT: 17.094 min Scan# 1742
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:178 Resp: 22246
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 14.9 12.2 18.2

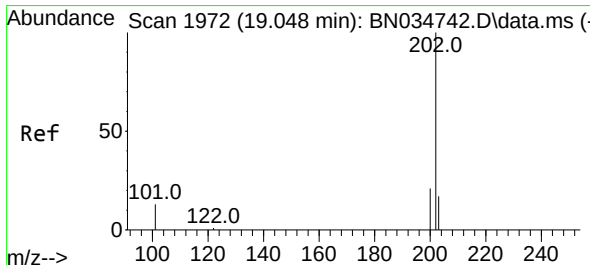
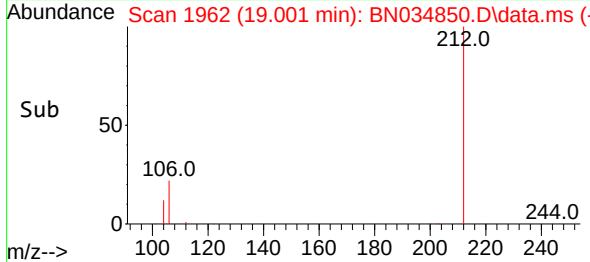
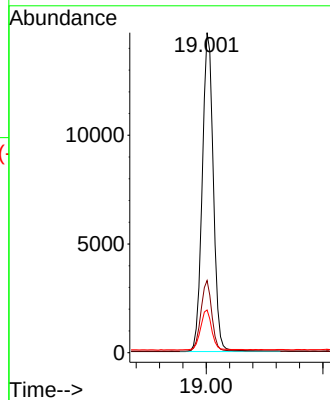
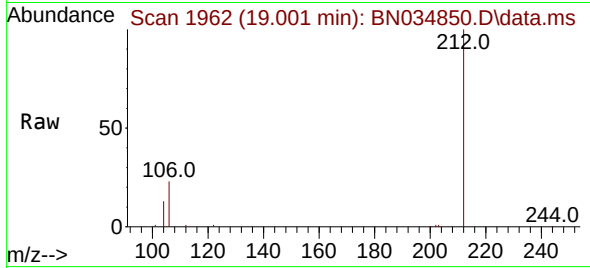




#27
Fluoranthene-d10
Concen: 0.353 ng
RT: 19.001 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

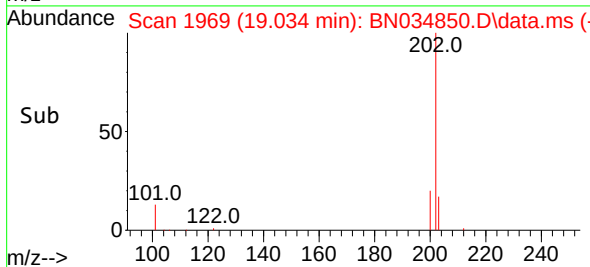
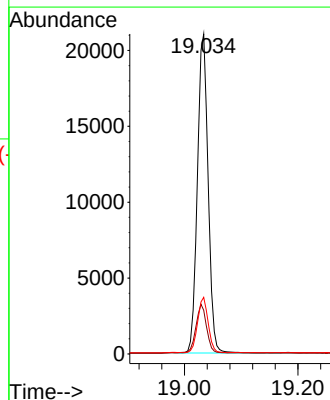
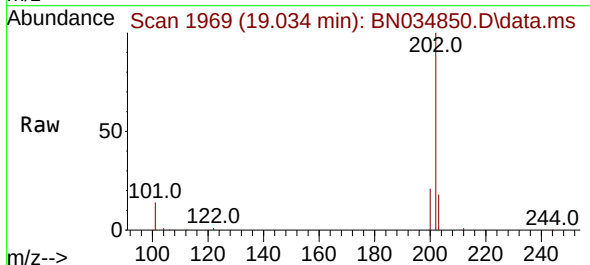
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

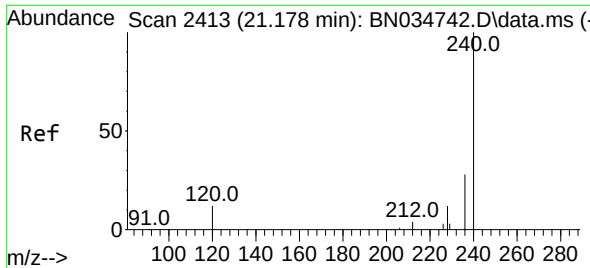
Tgt Ion	Ratio	Lower	Upper
212	100		
106	21.7	16.1	24.1
104	12.5	9.2	13.8



#28
Fluoranthene
Concen: 0.361 ng
RT: 19.034 min Scan# 1969
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.2	11.4	17.0
203	17.0	13.7	20.5

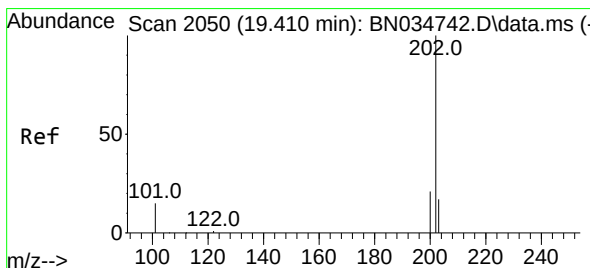
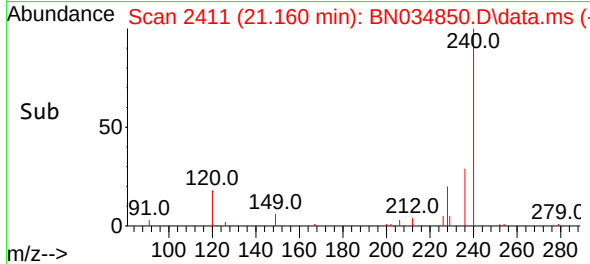
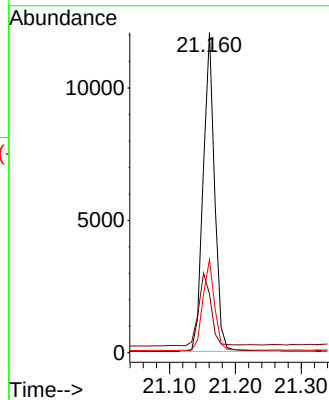
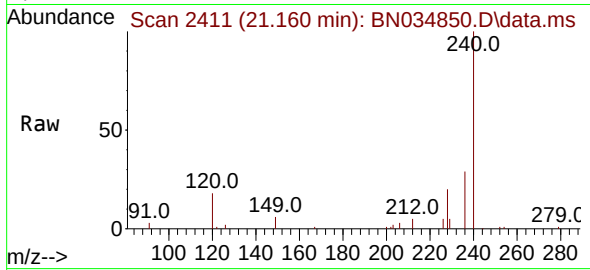




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

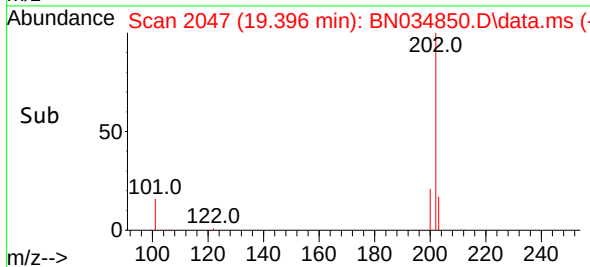
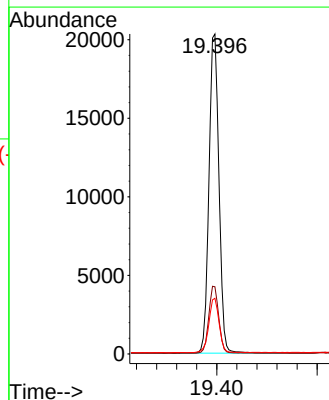
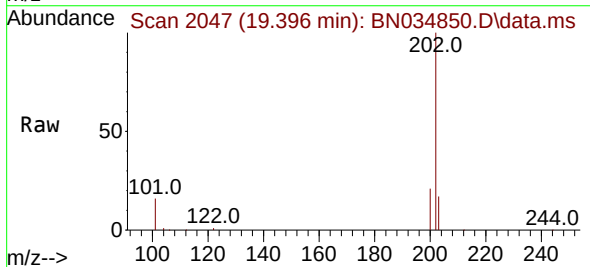
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

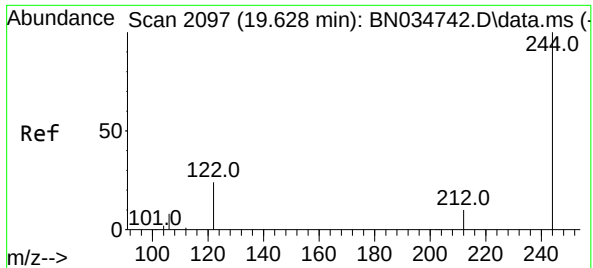
Tgt Ion:240 Resp: 14579
Ion Ratio Lower Upper
240 100
120 18.4 11.5 17.3#
236 29.1 23.2 34.8



#30
Pyrene
Concen: 0.368 ng
RT: 19.396 min Scan# 2047
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:202 Resp: 28018
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.6 14.2 21.2

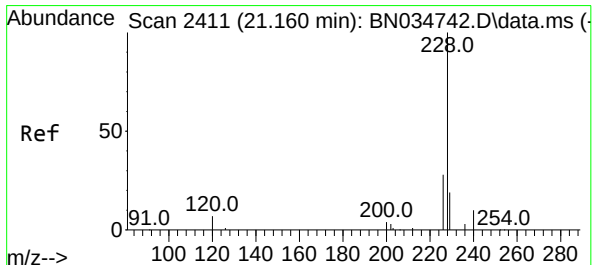
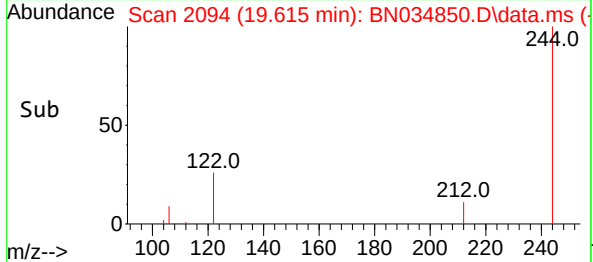
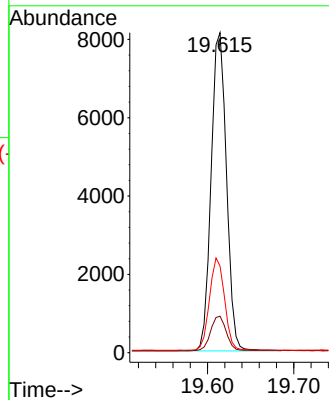
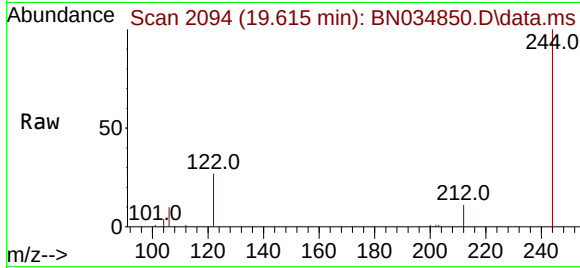




#31
Terphenyl-d14
Concen: 0.321 ng
RT: 19.615 min Scan# 2094
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

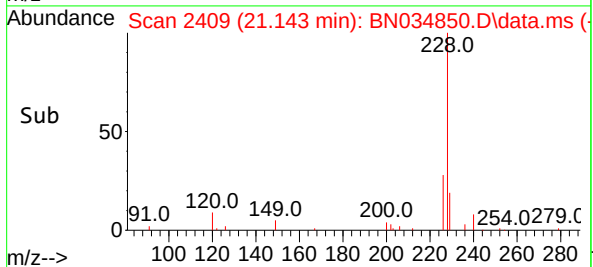
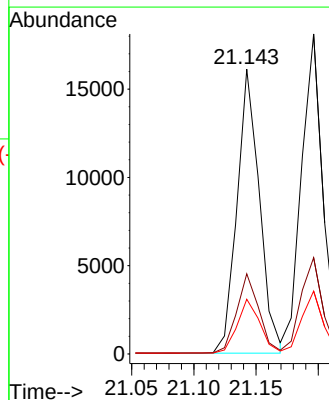
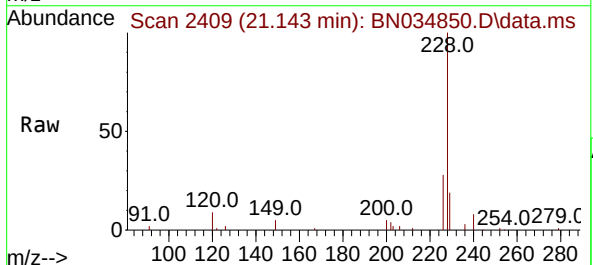
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

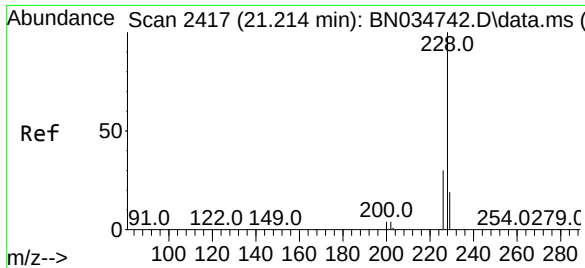
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	8.2	12.4
122	27.1	19.8	29.6



#32
Benzo(a)anthracene
Concen: 0.346 ng
RT: 21.143 min Scan# 2409
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	19.2	15.7	23.5

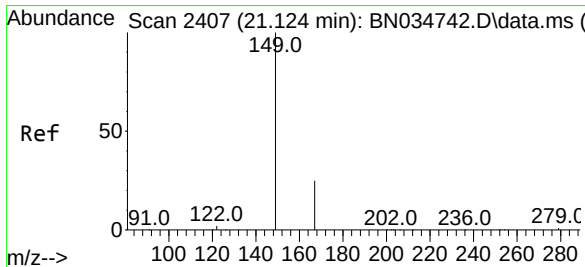
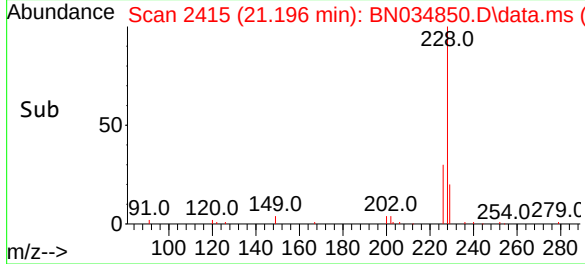
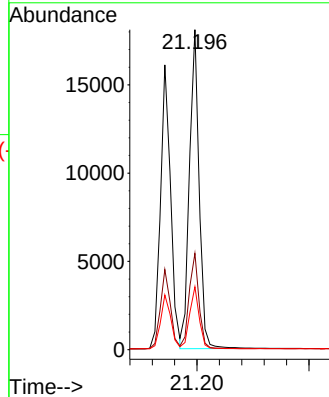
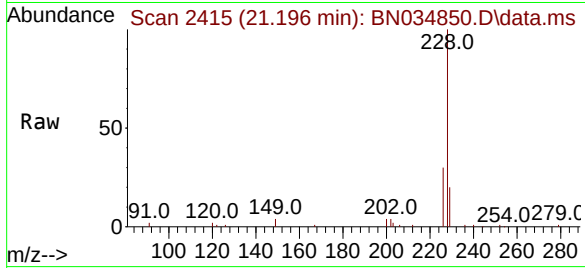




#33
Chrysene
Concen: 0.383 ng
RT: 21.196 min Scan# 2415
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

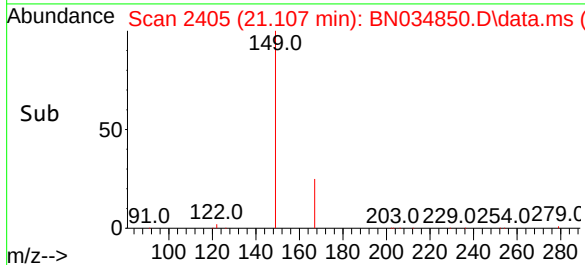
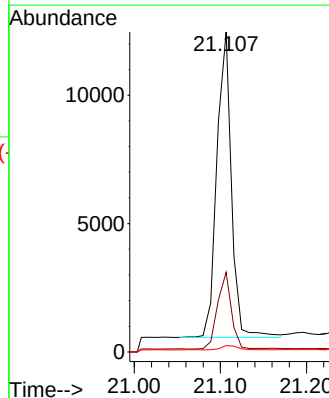
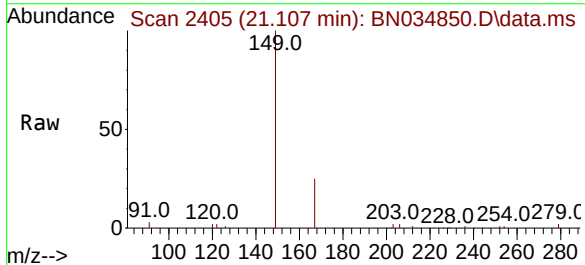
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

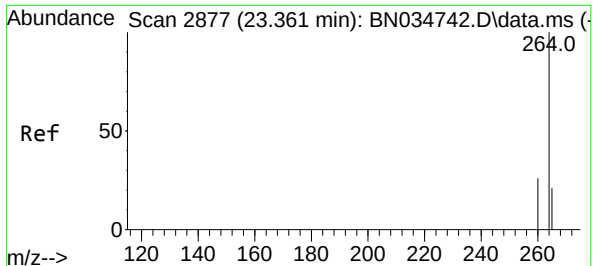
Tgt Ion:	228	Resp:	21768
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.4	36.6
229	19.7	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.287 ng
RT: 21.107 min Scan# 2405
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:	149	Resp:	13933
Ion Ratio	Lower	Upper	
149	100		
167	23.8	20.6	30.8
279	1.7	1.5	2.3

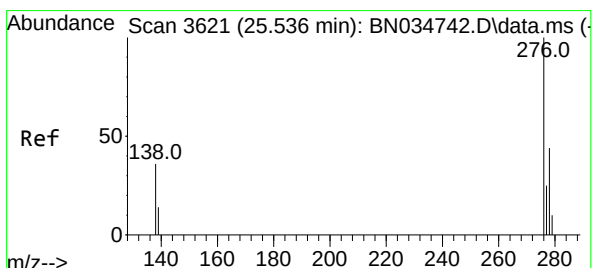
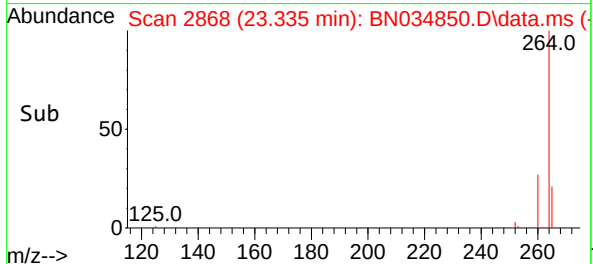
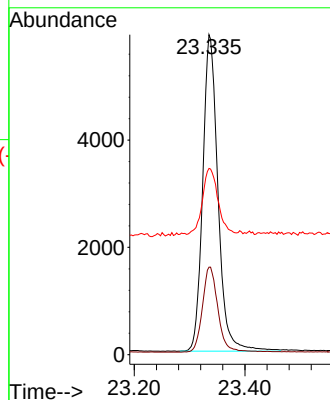
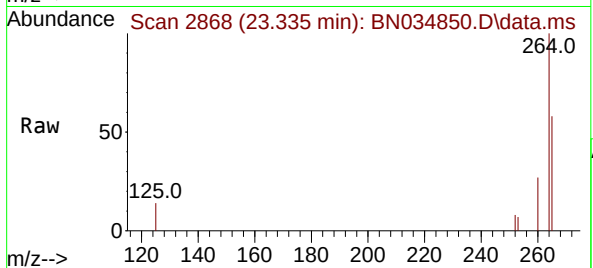




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.335 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

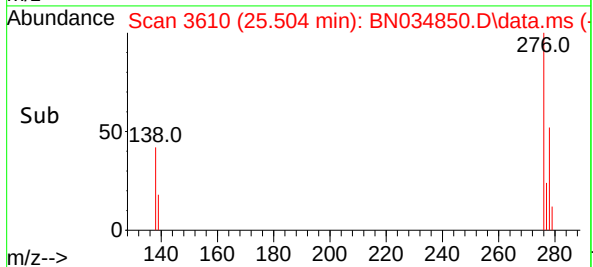
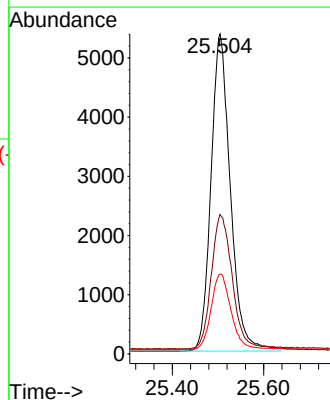
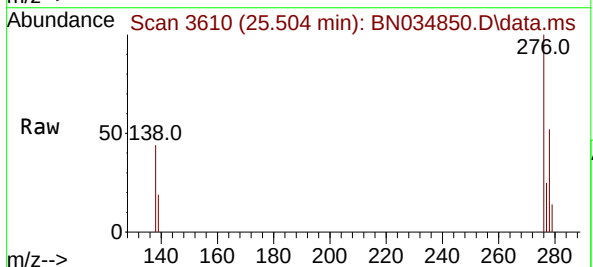
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

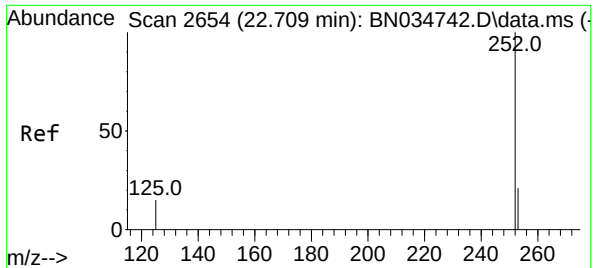
Tgt Ion:264 Resp: 11281
Ion Ratio Lower Upper
264 100
260 27.3 21.5 32.3
265 58.2 47.5 71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.380 ng
RT: 25.504 min Scan# 3610
Delta R.T. 0.000 min
Lab File: BN034850.D
Acq: 04 Nov 2024 21:33

Tgt Ion:276 Resp: 15750
Ion Ratio Lower Upper
276 100
138 45.3 31.5 47.3
277 24.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 22.689 min Scan# 2

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

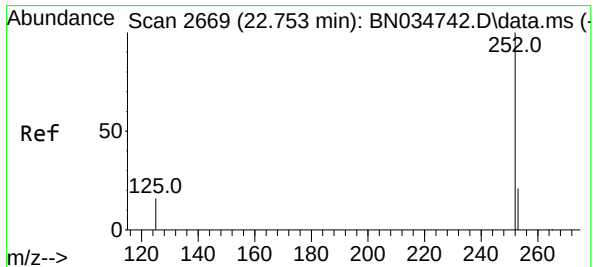
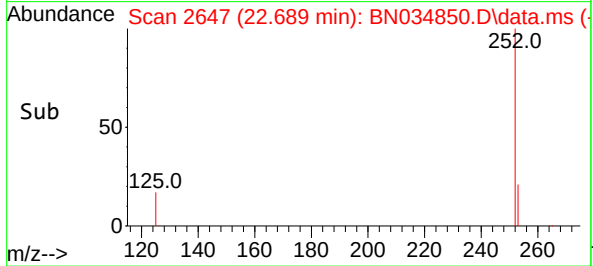
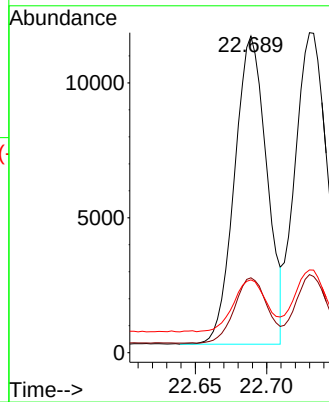
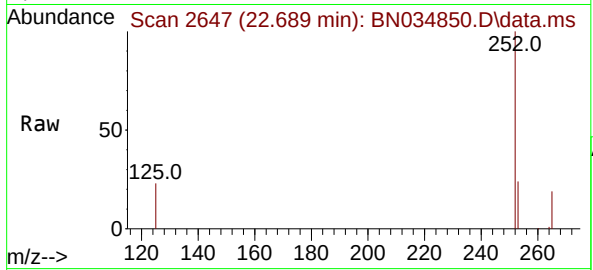
Tgt Ion:252 Resp: 17915

Ion Ratio Lower Upper

252 100

253 23.7 19.7 29.5

125 23.0 17.1 25.7



#38

Benzo(k)fluoranthene

Concen: 0.424 ng

RT: 22.730 min Scan# 2661

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

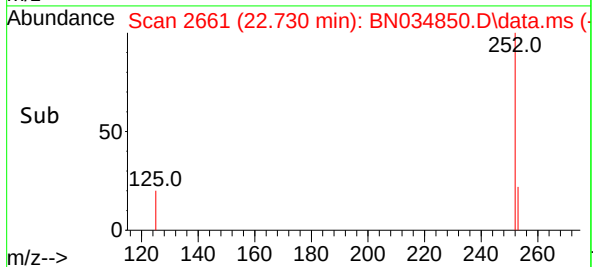
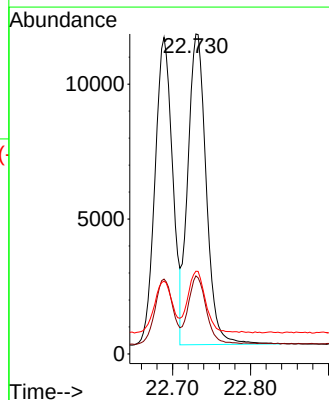
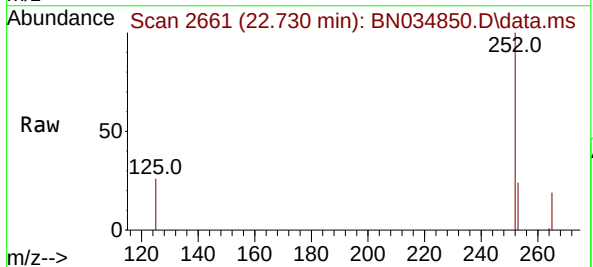
Tgt Ion:252 Resp: 18784

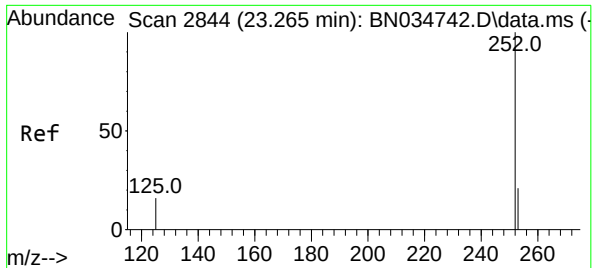
Ion Ratio Lower Upper

252 100

253 24.4 19.8 29.6

125 25.8 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.351 ng

RT: 23.241 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

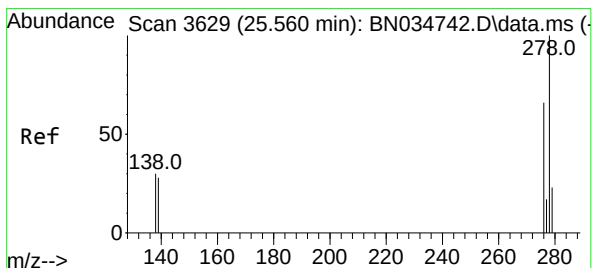
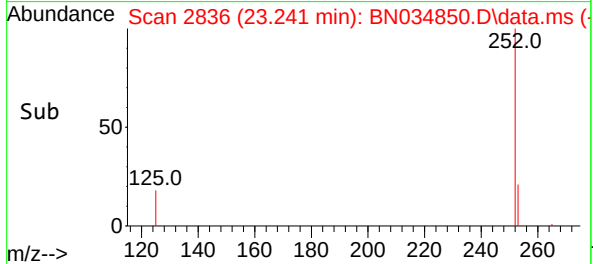
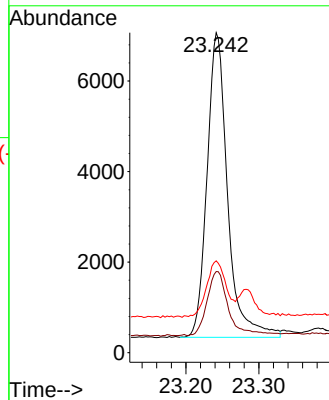
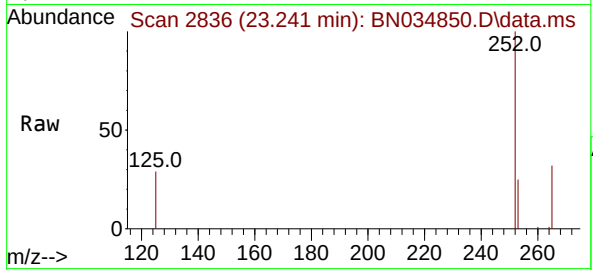
Tgt Ion:252 Resp: 13171

Ion Ratio Lower Upper

252 100

253 25.3 20.7 31.1

125 28.7 20.3 30.5



#40

Dibenzo(a,h)anthracene

Concen: 0.377 ng

RT: 25.525 min Scan# 3617

Delta R.T. 0.000 min

Lab File: BN034850.D

Acq: 04 Nov 2024 21:33

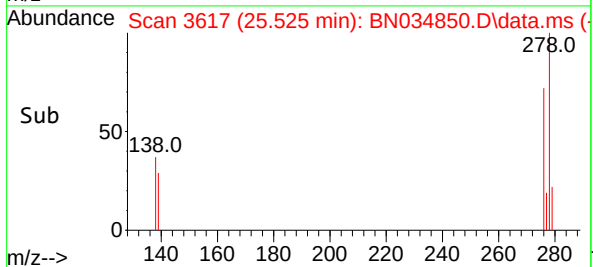
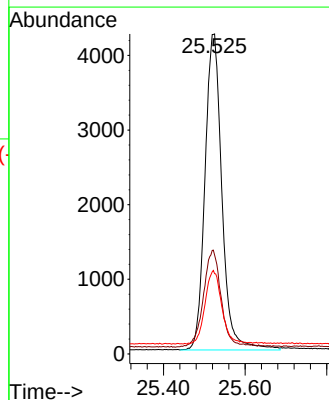
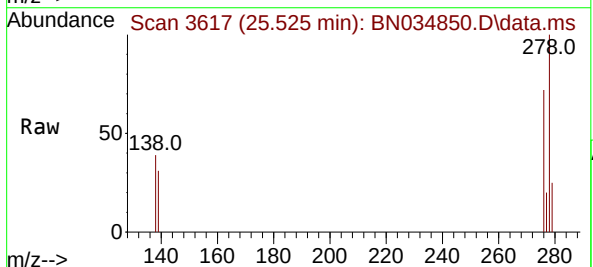
Tgt Ion:278 Resp: 12198

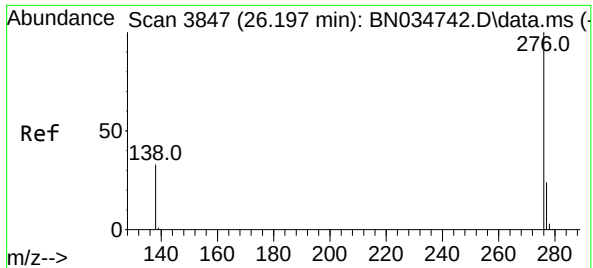
Ion Ratio Lower Upper

278 100

139 30.9 24.9 37.3

279 25.1 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.371 ng

RT: 26.165 min Scan# 3836

Delta R.T. 0.000 min

Lab File: BN034850.D

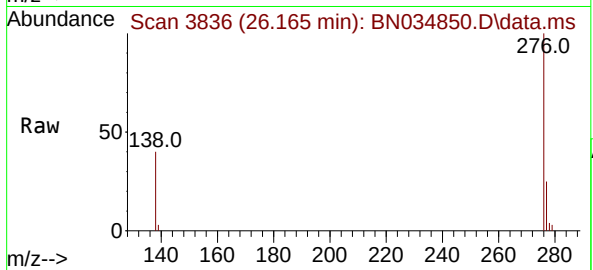
Acq: 04 Nov 2024 21:33

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



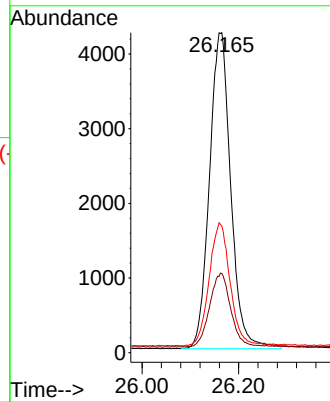
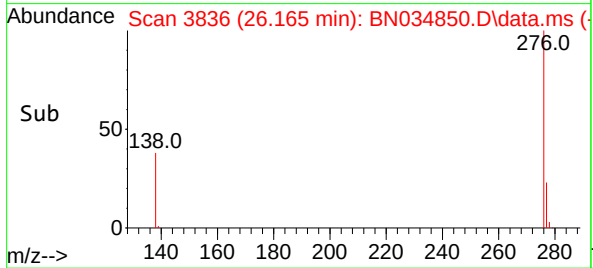
Tgt Ion:276 Resp: 12966

Ion Ratio Lower Upper

276 100

277 24.8 20.2 30.2

138 39.6 28.7 43.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034850.D
 Acq On : 04 Nov 2024 21:33
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 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	96	0.00
2	1,4-Dioxane	0.439	0.410	6.6	97	0.00
3	n-Nitrosodimethylamine	0.494	0.538	-8.9	118	0.00
4 S	2-Fluorophenol	1.212	1.320	-8.9	115	0.00
5 S	Phenol-d6	1.574	1.837	-16.7	125	0.00
6	bis(2-Chloroethyl)ether	1.149	1.134	1.3	103	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
8 S	Nitrobenzene-d5	0.314	0.268	14.6	95	0.00
9	Naphthalene	1.106	1.000	9.6	99	0.00
10	Hexachlorobutadiene	0.182	0.164	9.9	98	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.495	14.5	94	0.00
12	2-Methylnaphthalene	0.723	0.612	15.4	93	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.198	0.157	20.7	87	0.00
15 S	2-Fluorobiphenyl	1.575	1.396	11.4	90	0.00
16	Acenaphthylene	2.007	1.582	21.2	83	0.00
17	Acenaphthene	1.337	1.110	17.0	86	0.00
18	Fluorene	1.667	1.399	16.1	86	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.032	45.8#	60	0.00
21	4-Bromophenyl-phenylether	0.231	0.197	14.7	79	0.00
22	Hexachlorobenzene	0.259	0.241	6.9	85	0.00
23	Atrazine	0.199	0.237	-19.1	112	0.00
24	Pentachlorophenol	0.112	0.086	23.2	80	0.00
25	Phenanthrene	1.176	1.120	4.8	88	0.00
26	Anthracene	1.101	0.946	14.1	81	0.00
27 SURR	Fluoranthene-d10	0.938	0.829	11.6	82	0.00
28	Fluoranthene	1.297	1.169	9.9	84	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	84	0.00
30	Pyrene	2.091	1.922	8.1	84	0.00
31 S	Terphenyl-d14	0.859	0.690	19.7	74	0.00
32	Benzo(a)anthracene	1.592	1.377	13.5	83	0.00
33	Chrysene	1.559	1.493	4.2	89	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	0.956	28.2#	62	0.00
35 I	Perylene-d12	1.000	1.000	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.396	5.1	81	0.00
37	Benzo(b)fluoranthene	1.610	1.588	1.4	84	0.00
38	Benzo(k)fluoranthene	1.571	1.665	-6.0	92	0.00
39 C	Benzo(a)pyrene	1.329	1.168	12.1	76	0.00
40	Dibenzo(a,h)anthracene	1.147	1.081	5.8	80	0.00
41	Benzo(g,h,i)perylene	1.240	1.149	7.3	78	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034850.D
Acq On : 04 Nov 2024 21:33
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 00:11:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	96	0.00
2	1,4-Dioxane	0.400	0.374	6.5	97	0.00
3	n-Nitrosodimethylamine	0.400	0.435	-8.7	118	0.00
4 S	2-Fluorophenol	0.400	0.436	-9.0	115	0.00
5 S	Phenol-d6	0.400	0.467	-16.8	125	0.00
6	bis(2-Chloroethyl)ether	0.400	0.395	1.3	103	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	99	0.00
8 S	Nitrobenzene-d5	0.400	0.341	14.8	95	0.00
9	Naphthalene	0.400	0.362	9.5	99	0.00
10	Hexachlorobutadiene	0.400	0.359	10.3	98	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.342	14.5	94	0.00
12	2-Methylnaphthalene	0.400	0.338	15.5	93	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.400	0.318	20.5	87	0.00
15 S	2-Fluorobiphenyl	0.400	0.354	11.5	90	0.00
16	Acenaphthylene	0.400	0.315	21.3	83	0.00
17	Acenaphthene	0.400	0.332	17.0	86	0.00
18	Fluorene	0.400	0.336	16.0	86	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	84	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.347	13.3	60	0.00
21	4-Bromophenyl-phenylether	0.400	0.341	14.8	79	0.00
22	Hexachlorobenzene	0.400	0.372	7.0	85	0.00
23	Atrazine	0.400	0.477	-19.2	112	0.00
24	Pentachlorophenol	0.400	0.309	22.8	80	0.00
25	Phenanthrene	0.400	0.381	4.8	88	0.00
26	Anthracene	0.400	0.344	14.0	81	0.00
27 SURR	Fluoranthene-d10	0.400	0.353	11.8	82	0.00
28	Fluoranthene	0.400	0.361	9.8	84	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	84	0.00
30	Pyrene	0.400	0.368	8.0	84	0.00
31 S	Terphenyl-d14	0.400	0.321	19.8	74	0.00
32	Benzo(a)anthracene	0.400	0.346	13.5	83	0.00
33	Chrysene	0.400	0.383	4.3	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.287	28.3#	62	0.00
35 I	Perylene-d12	0.400	0.400	0.0	77	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.380	5.0	81	0.00
37	Benzo(b)fluoranthene	0.400	0.394	1.5	84	0.00
38	Benzo(k)fluoranthene	0.400	0.424	-6.0	92	0.00
39 C	Benzo(a)pyrene	0.400	0.351	12.3	76	0.00
40	Dibenzo(a,h)anthracene	0.400	0.377	5.8	80	0.00
41	Benzo(g,h,i)perylene	0.400	0.371	7.3	78	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P4600 SAS No.: P4600 SDG No.: P4600

Instrument ID: BNA_N Calibration Date/Time: 11/05/2024 04:09

Lab File ID: BN034861.D Init. Calib. Date(s): 10/30/2024 10/30/2024

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 09:20 12:56

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.579	0.506		-12.6	50.0
Fluoranthene-d10	0.938	0.812		-13.4	50.0
2-Fluorophenol	1.212	1.041		-14.1	50.0
Phenol-d6	1.574	1.409		-10.5	50.0
Nitrobenzene-d5	0.314	0.279		-11.1	50.0
2-Fluorobiphenyl	1.575	1.451		-7.9	50.0
2,4,6-Tribromophenol	0.198	0.105		-47.0	50.0
Terphenyl-d14	0.859	0.735		-14.4	50.0
1,4-Dioxane	0.439	0.451		2.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034861.D
 Acq On : 05 Nov 2024 04:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
 Supervised By :mohammad ahmed 11/06/2024

Quant Time: Nov 05 04:35:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6839	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	21431	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	10867	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	21411	0.400	ng	0.00
29) Chrysene-d12	21.160	240	12483	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	9733	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7120	0.344	ng	0.00
5) Phenol-d6	6.766	99	9636	0.358	ng	0.00
8) Nitrobenzene-d5	8.728	82	5987	0.355	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	10849	0.350	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1137	0.212	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	15772	0.368	ng	0.00
27) Fluoranthene-d10	19.001	212	17385	0.346	ng	0.00
31) Terphenyl-d14	19.614	244	9173	0.342	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	3081	0.411	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.494	42	4138	0.490	ng	# 81
6) bis(2-Chloroethyl)ether	7.026	93	8023	0.408	ng	95
9) Naphthalene	10.404	128	22001	0.371	ng	99
10) Hexachlorobutadiene	10.703	225	3576	0.366	ng	# 99
12) 2-Methylnaphthalene	12.026	142	13519	0.349	ng	99
16) Acenaphthylene	13.933	152	17717	0.325	ng	100
17) Acenaphthene	14.286	154	12570	0.346	ng	95
18) Fluorene	15.270	166	15790	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	711	0.353	ng	# 79
21) 4-Bromophenyl-phenylether	16.175	248	4117	0.332	ng	# 91
22) Hexachlorobenzene	16.275	284	5221	0.376	ng	93
23) Atrazine	16.448	200	2930	0.275	ng	96
24) Pentachlorophenol	16.622	266	1399	0.234	ng	96
25) Phenanthrene	17.007	178	24192	0.384	ng	100
26) Anthracene	17.094	178	20428	0.347	ng	100
28) Fluoranthene	19.034	202	25234	0.364	ng	99
30) Pyrene	19.396	202	25452	0.390	ng	100
32) Benzo(a)anthracene	21.142	228	17648	0.355	ng	99
33) Chrysene	21.196	228	19265	0.396	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	11721	0.282	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.501	276	14740	0.412	ng	92
37) Benzo(b)fluoranthene	22.689	252	15905	0.406	ng	96
38) Benzo(k)fluoranthene	22.733	252	16776m	0.439	ng	
39) Benzo(a)pyrene	23.241	252	11941	0.369	ng	# 93
40) Dibenzo(a,h)anthracene	25.516	278	11413	0.409	ng	98
41) Benzo(g,h,i)perylene	26.159	276	12092	0.401	ng	95

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

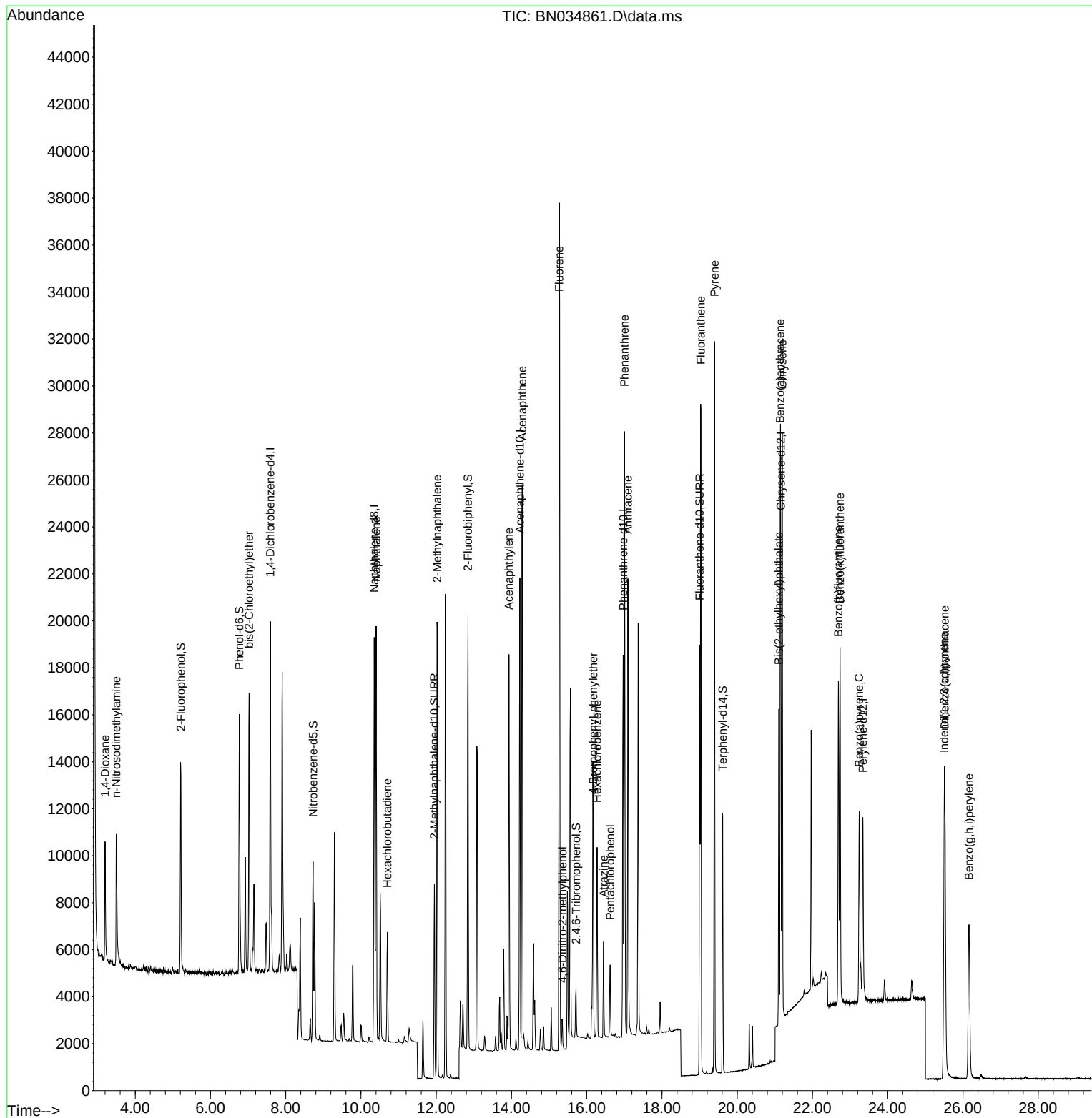
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 Data File : BN034861.D
 Acq On : 05 Nov 2024 04:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

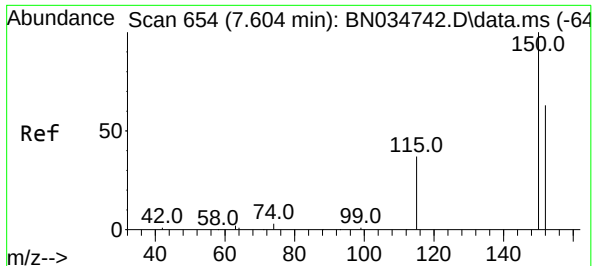
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
 Supervised By :mohammad ahmed 11/06/2024

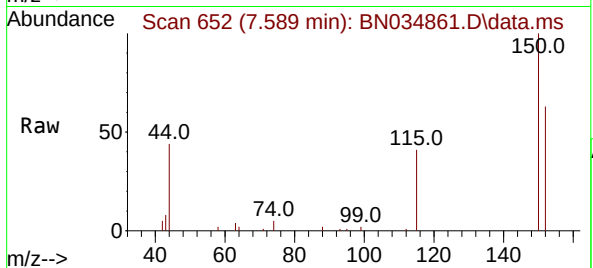
Quant Time: Nov 05 04:35:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

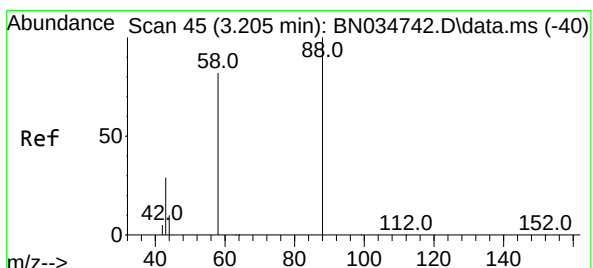
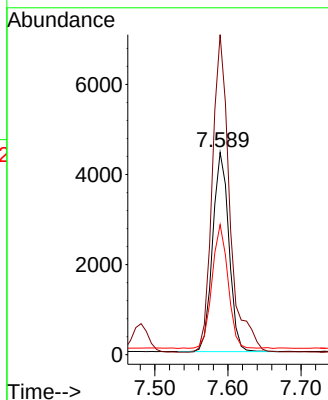
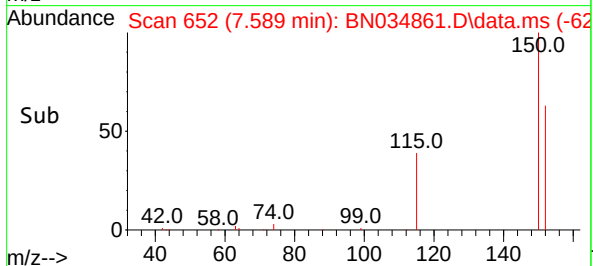
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 6839
Ion Ratio Lower Upper
152 100
150 158.2 124.9 187.3
115 64.3 50.2 75.2

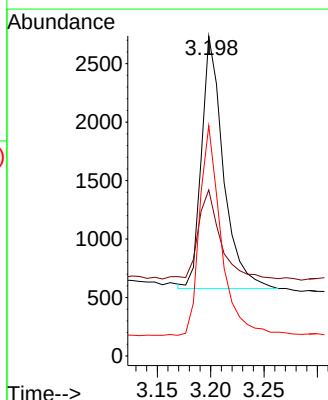
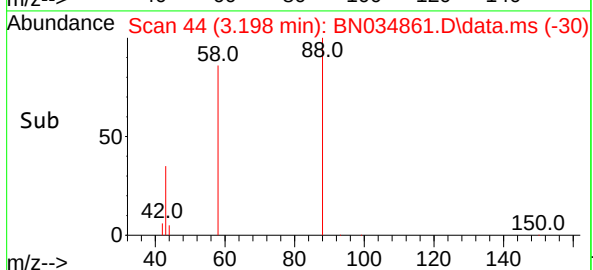
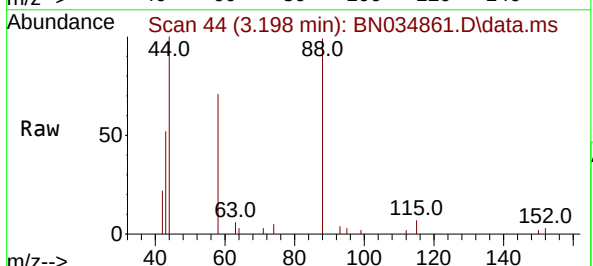
Manual Integrations
APPROVED

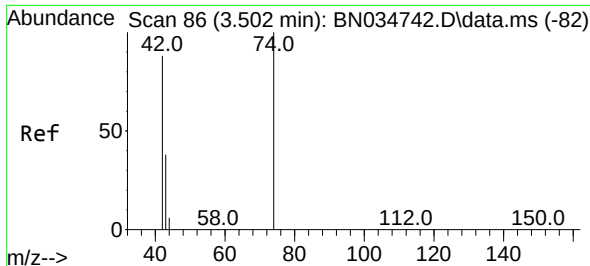
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#2
1,4-Dioxane
Concen: 0.411 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion: 88 Resp: 3081
Ion Ratio Lower Upper
88 100
43 35.7 26.7 40.1
58 82.6 59.3 88.9





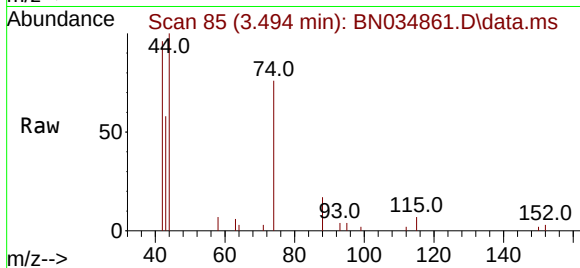
#3
n-Nitrosodimethylamine
Concen: 0.490 ng
RT: 3.494 min Scan# 80
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

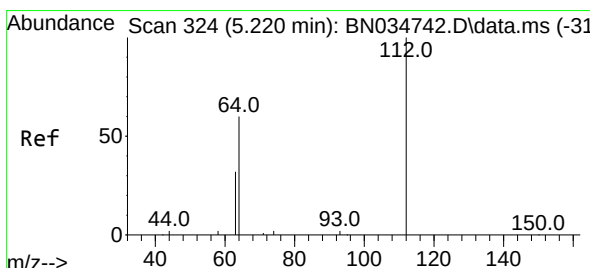
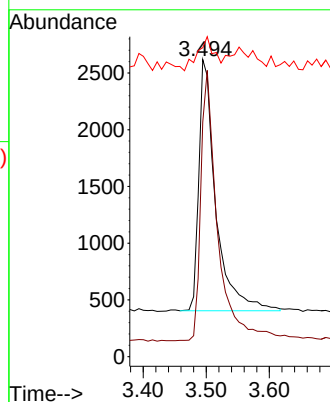
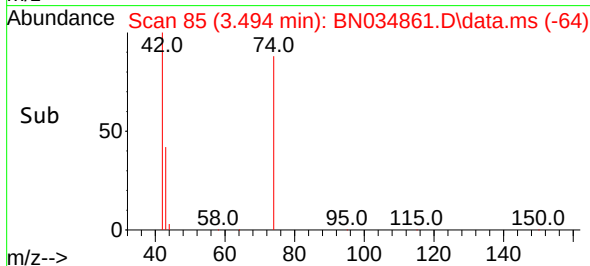


Tgt Ion: 42 Resp: 4138
Ion Ratio Lower Upper
42 100
74 106.6 103.1 154.7
44 12.9 6.7 10.1

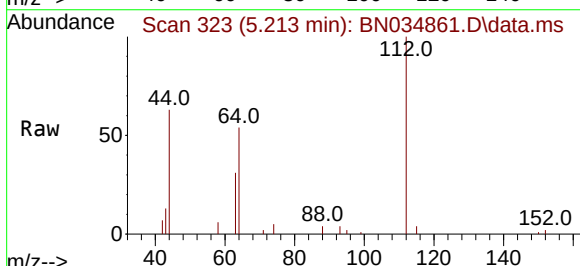
Manual Integrations

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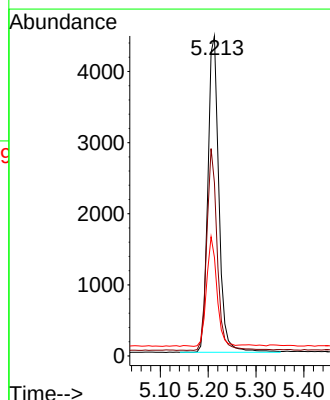
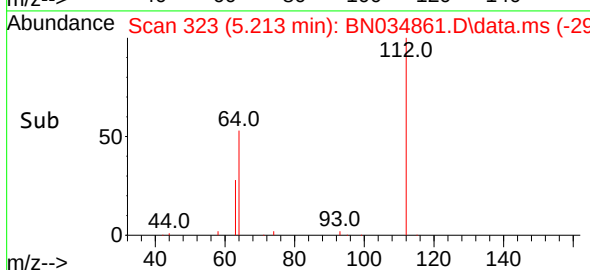
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

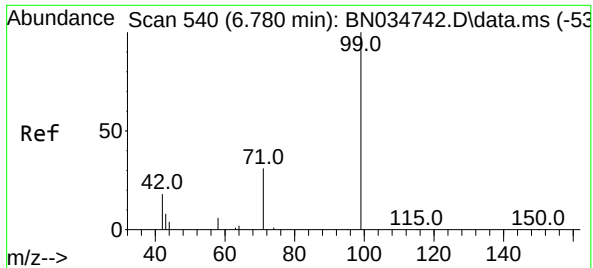


#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09



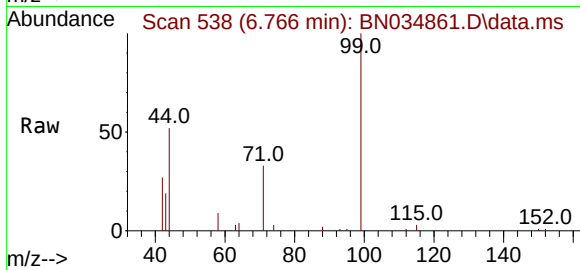
Tgt Ion:112 Resp: 7120
Ion Ratio Lower Upper
112 100
64 60.3 44.9 67.3
63 32.5 23.5 35.3





#5
Phenol-d6
Concen: 0.358 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

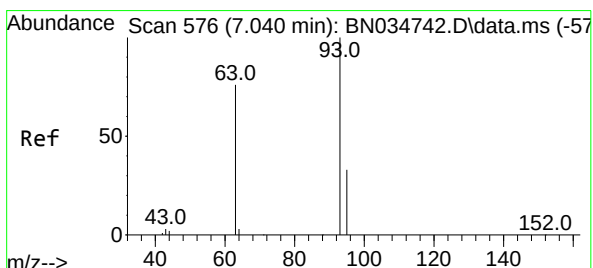
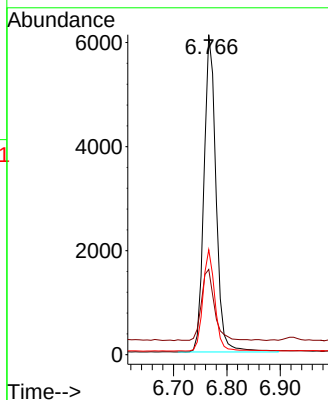
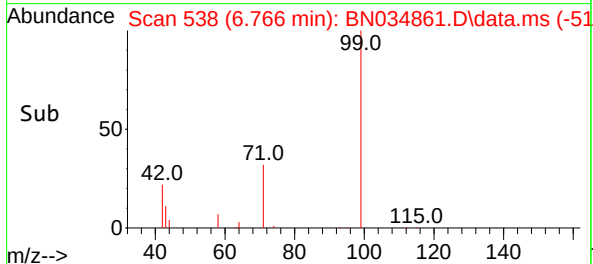
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 99 Resp: 9630
Ion Ratio Lower Upper
99 100
42 23.8 15.9 23.9
71 31.9 24.3 36.5

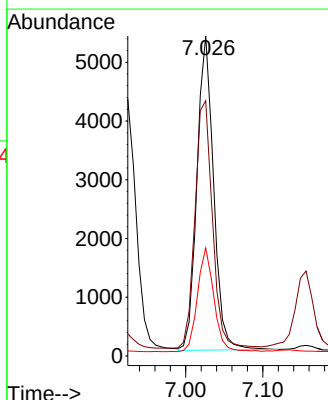
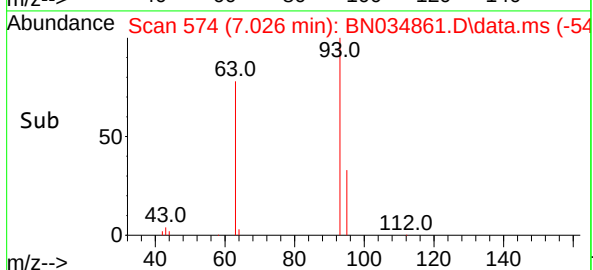
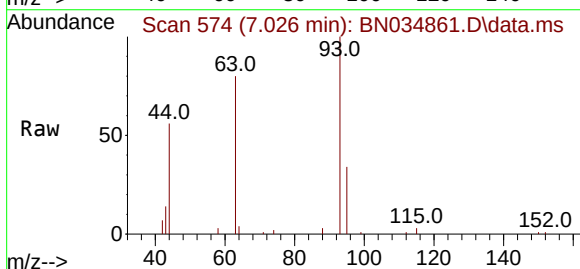
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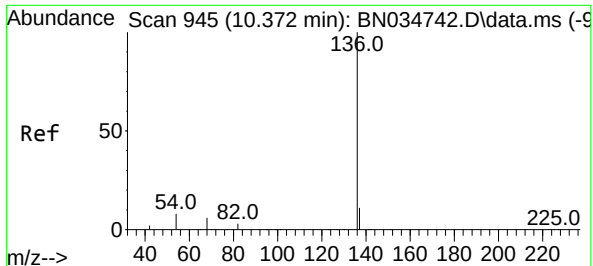
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion: 93 Resp: 8023
Ion Ratio Lower Upper
93 100
63 82.9 61.2 91.8
95 32.5 25.8 38.8





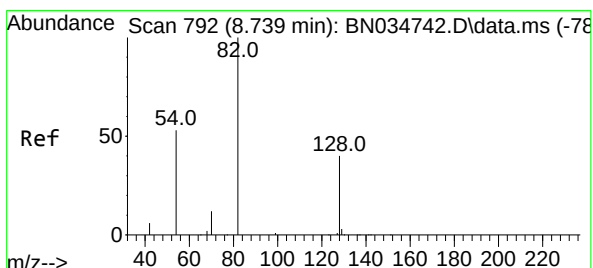
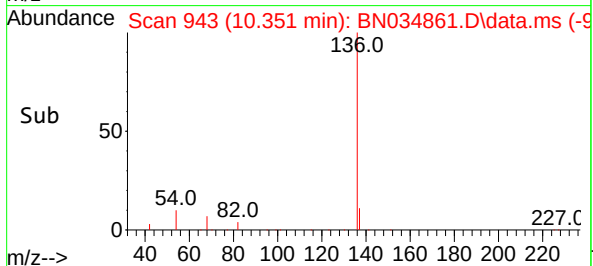
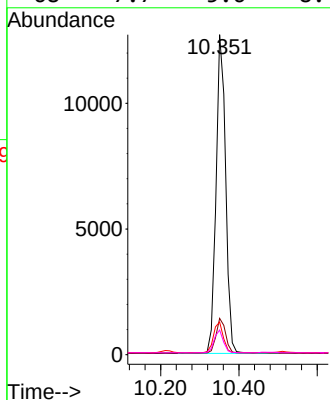
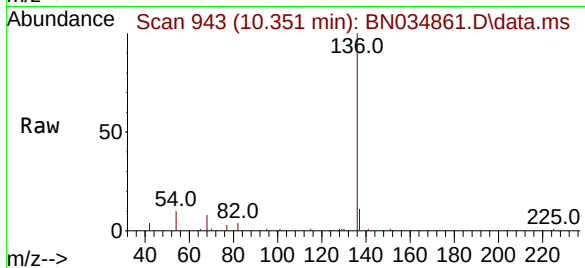
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	10.2	7.0	10.4
68	7.7	5.6	8.4

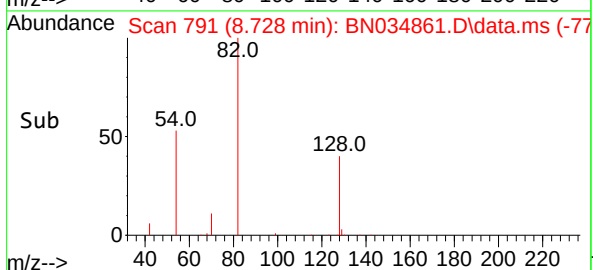
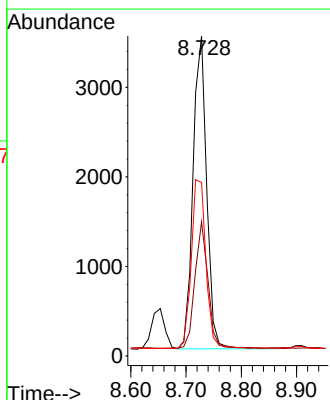
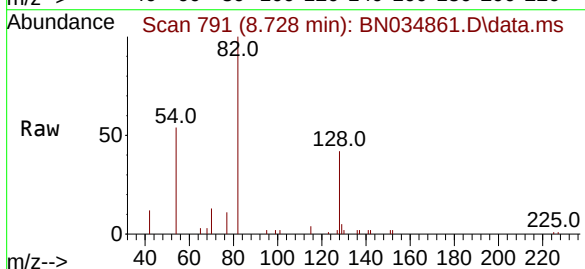
Manual Integrations
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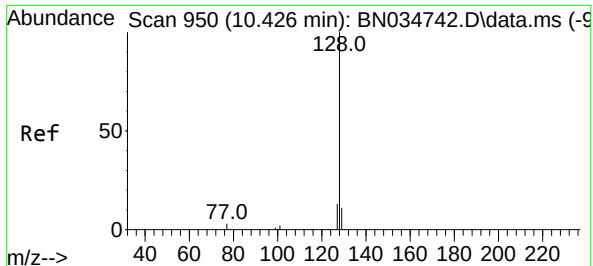
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.7	50.5
54	54.2	44.4	66.6





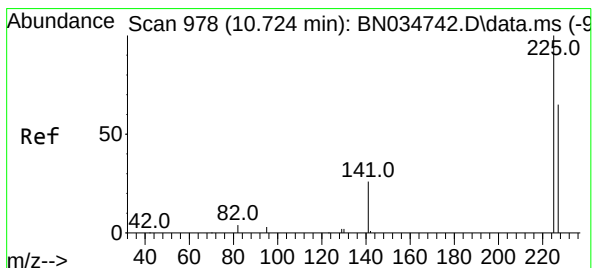
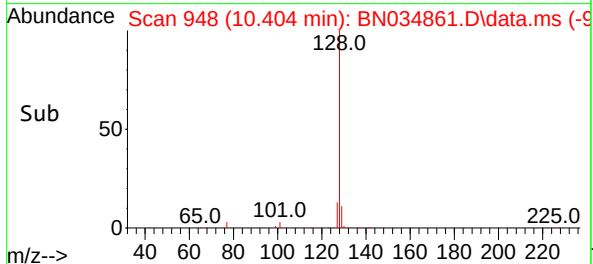
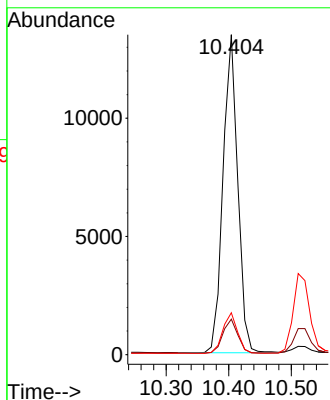
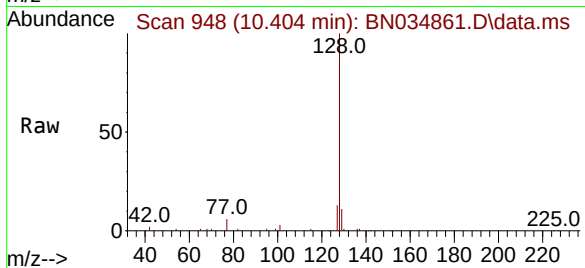
#9
Naphthalene
Concen: 0.371 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 2200
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.0
127 13.1 10.6 15.8

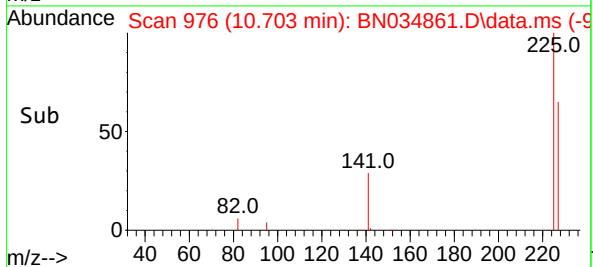
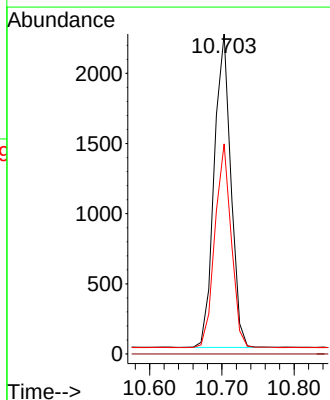
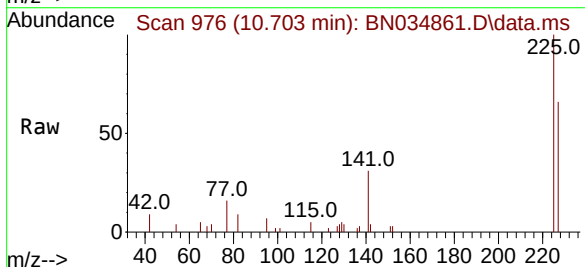
Manual Integrations
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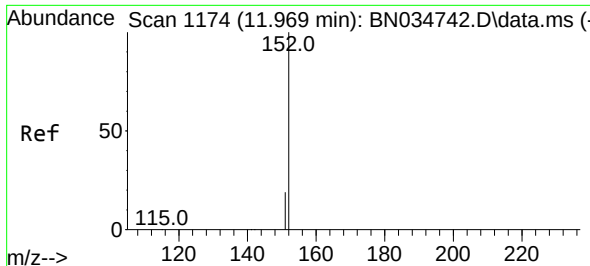
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#10
Hexachlorobutadiene
Concen: 0.366 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:225 Resp: 3576
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.4 77.2





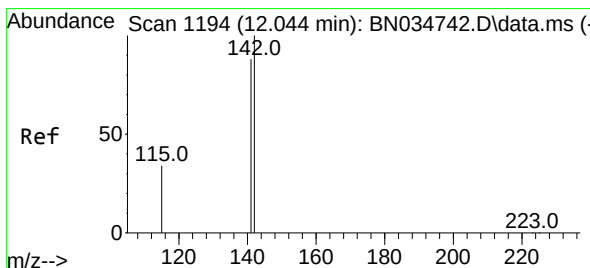
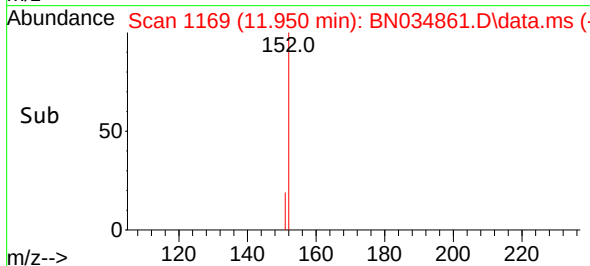
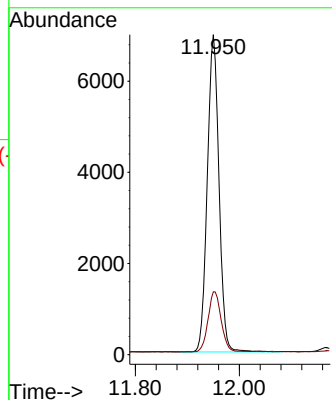
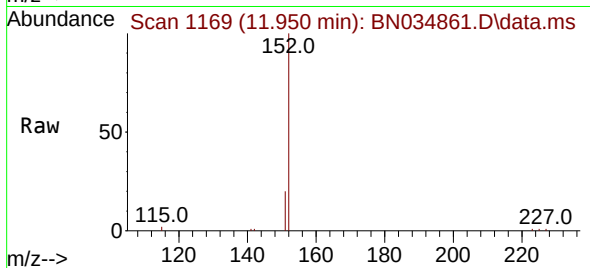
#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC

Tgt Ion:152 Resp: 10849
Ion Ratio Lower Upper
152 100
151 21.2 16.6 24.8

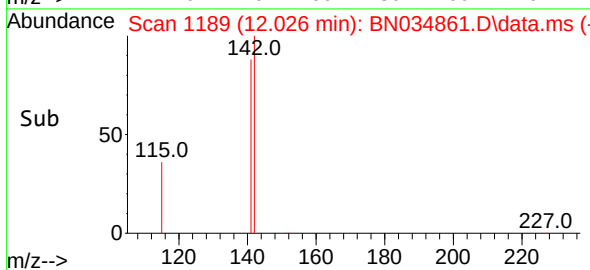
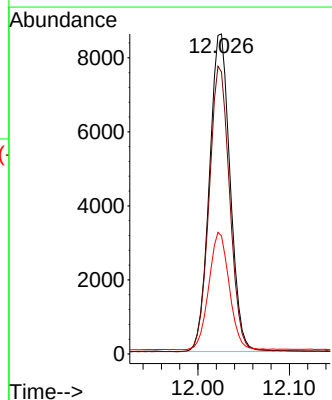
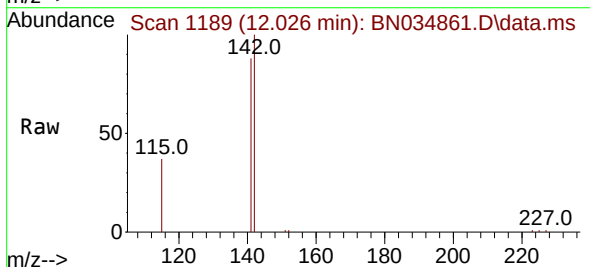
Manual Integrations
APPROVED

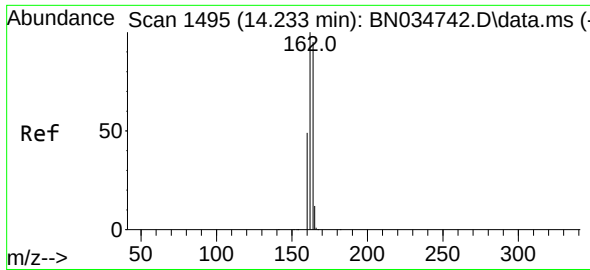
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#12
2-Methylnaphthalene
Concen: 0.349 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

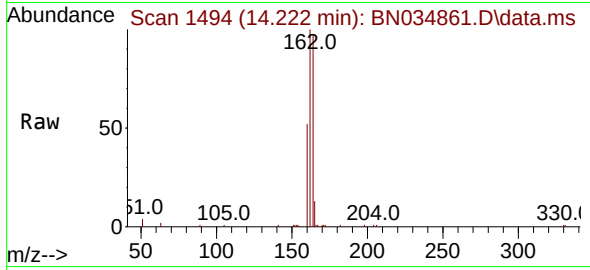
Tgt Ion:142 Resp: 13519
Ion Ratio Lower Upper
142 100
141 88.2 70.6 106.0
115 36.9 28.6 42.8





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

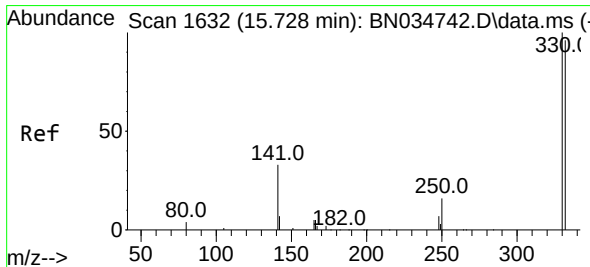
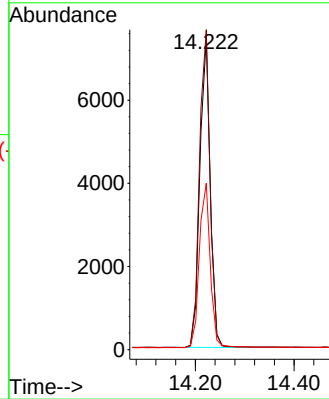
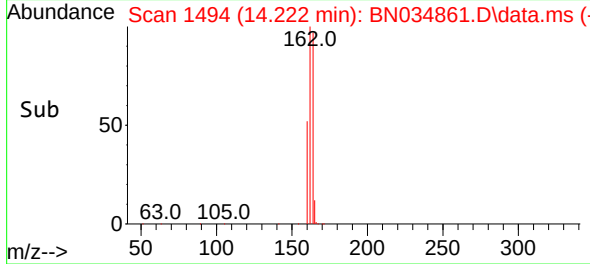
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



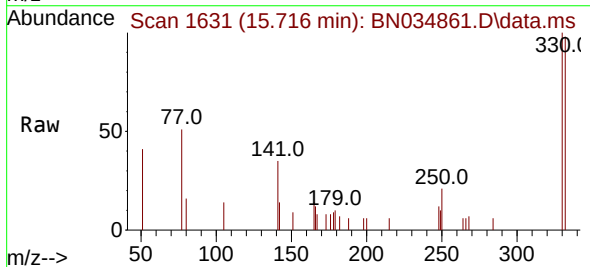
Tgt Ion:164 Resp: 1086
Ion Ratio Lower Upper
164 100
162 102.8 84.3 126.5
160 53.4 41.7 62.5

Manual Integrations
APPROVED

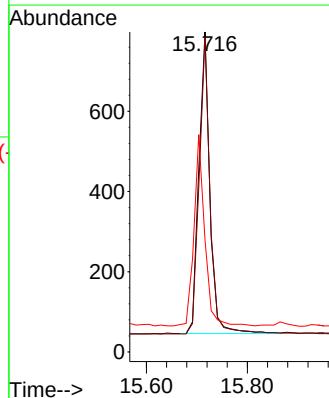
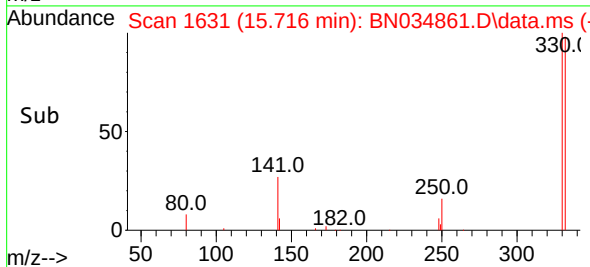
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

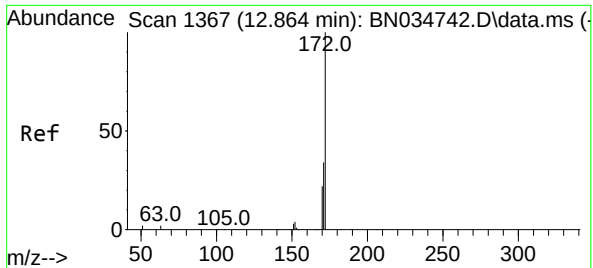


#14
2,4,6-Tribromophenol
Concen: 0.212 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09



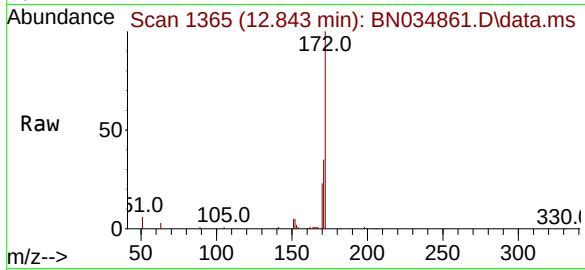
Tgt Ion:330 Resp: 1137
Ion Ratio Lower Upper
330 100
332 97.5 77.8 116.6
141 61.7 41.0 61.4#





#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 12.843 min Scan# 1365
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

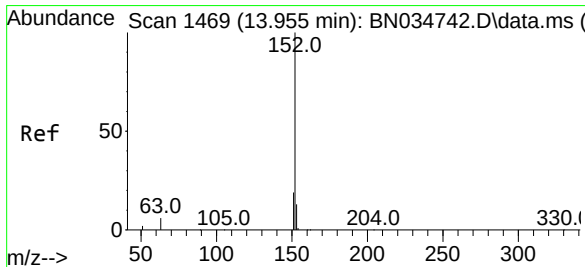
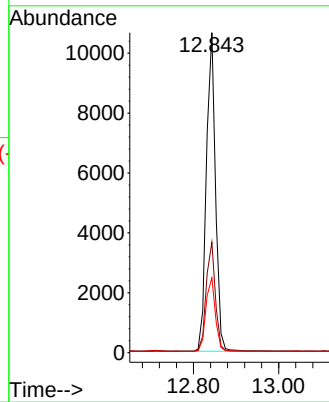
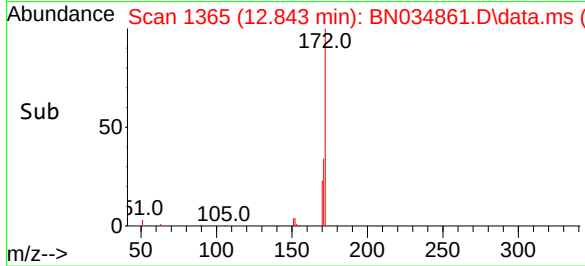
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 15772
Ion Ratio Lower Upper
172 100
171 34.5 27.2 40.8
170 23.4 18.0 27.0

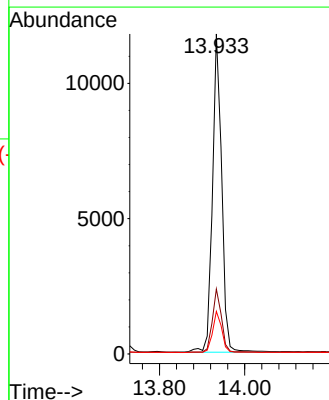
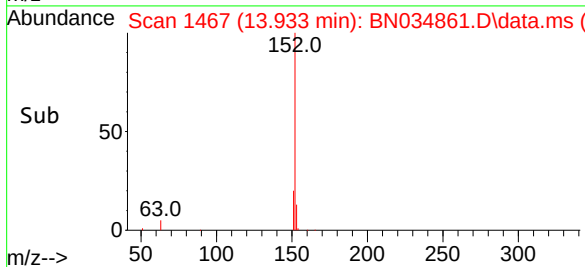
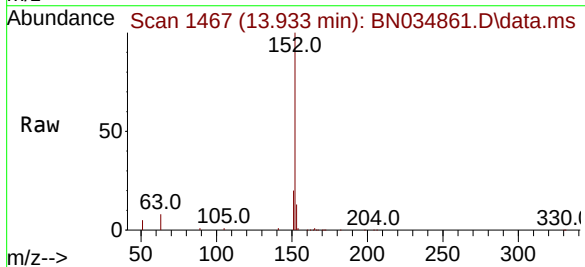
Manual Integrations
APPROVED

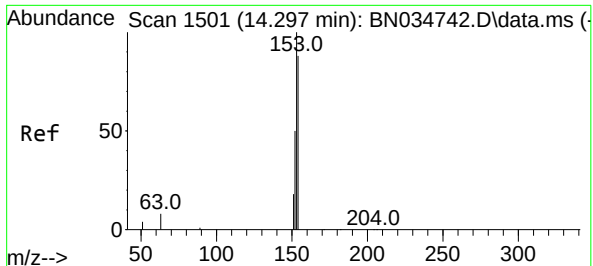
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#16
Acenaphthylene
Concen: 0.325 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

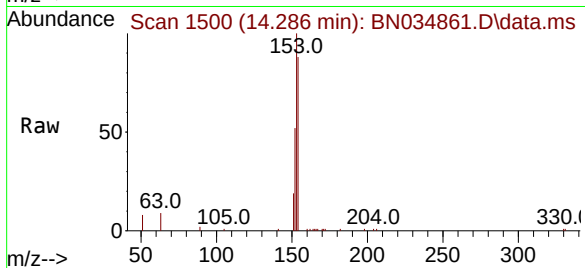
Tgt Ion:152 Resp: 17717
Ion Ratio Lower Upper
152 100
151 19.4 15.4 23.2
153 13.0 10.2 15.4





#17
Acenaphthene
Concen: 0.346 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

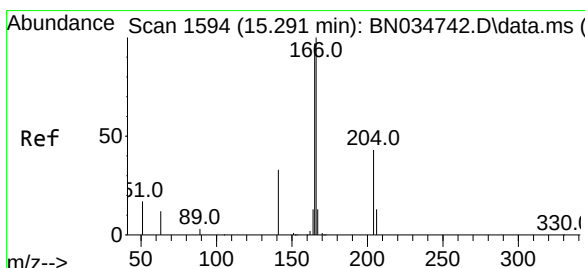
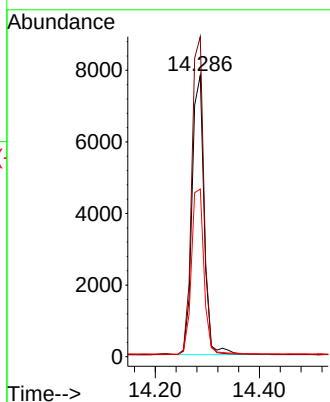
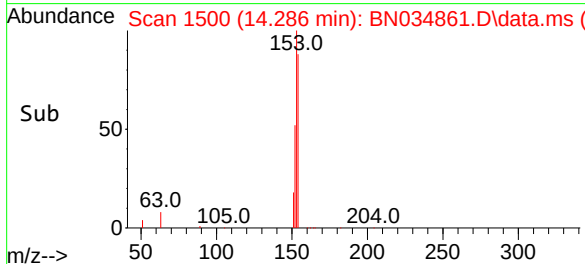
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



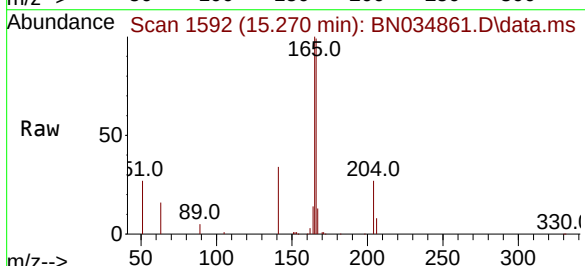
Tgt Ion:154 Resp: 12570
Ion Ratio Lower Upper
154 100
153 113.6 87.8 131.6
152 61.6 44.6 67.0

Manual Integrations
APPROVED

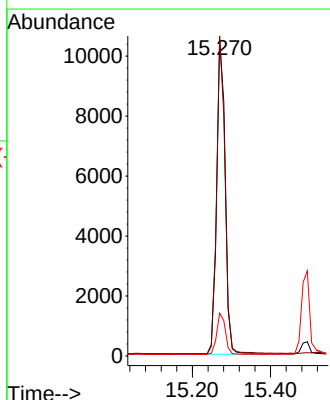
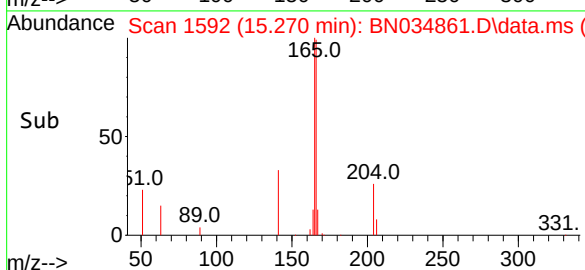
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

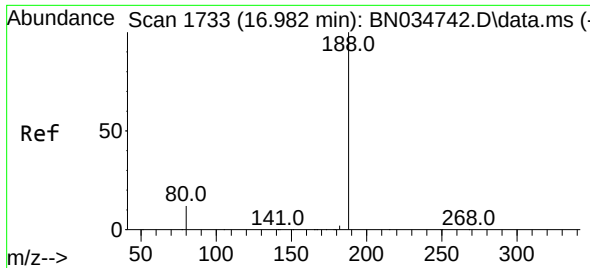


#18
Fluorene
Concen: 0.349 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09



Tgt Ion:166 Resp: 15790
Ion Ratio Lower Upper
166 100
165 99.3 78.5 117.7
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.970 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:188 Resp: 2141

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

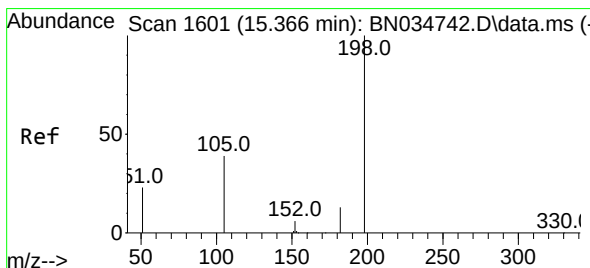
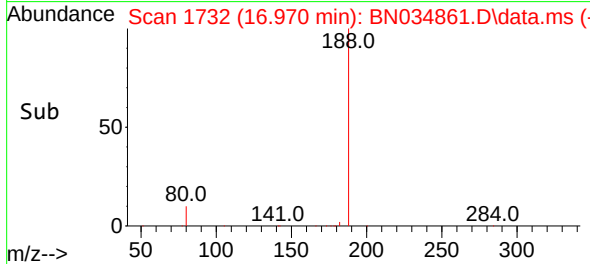
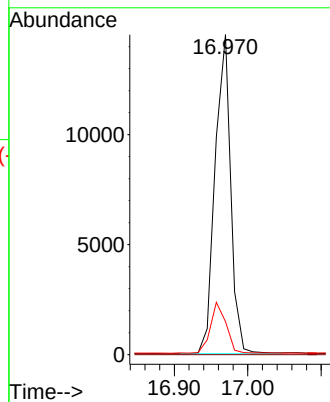
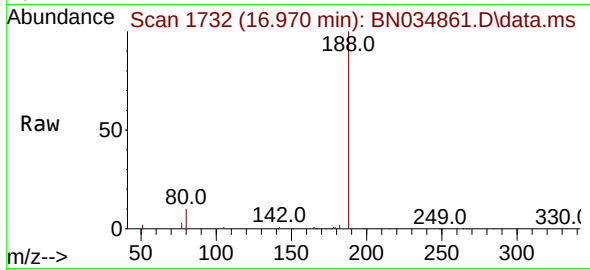
80 10.4 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024

Supervised By :mohammad ahmed 11/06/2024



#20

4,6-Dinitro-2-methylphenol

Concen: 0.353 ng

RT: 15.355 min Scan# 1600

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

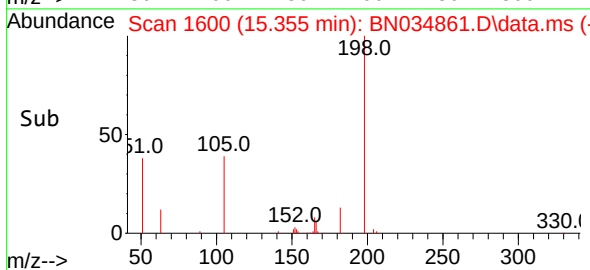
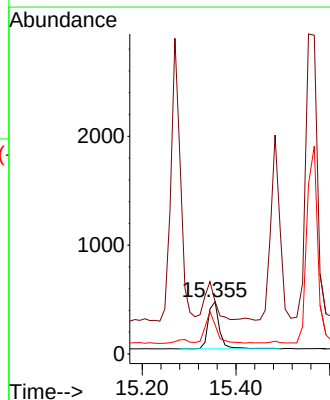
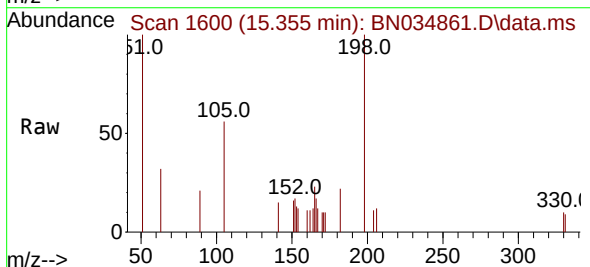
Tgt Ion:198 Resp: 711

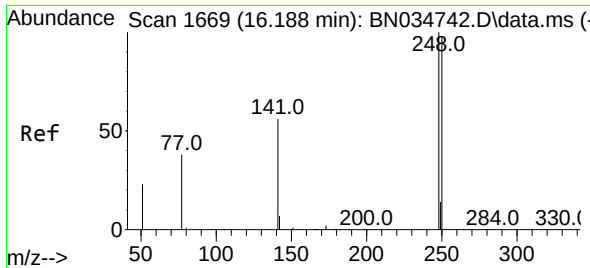
Ion Ratio Lower Upper

198 100

51 100.4 58.0 87.0#

105 55.8 49.1 73.7





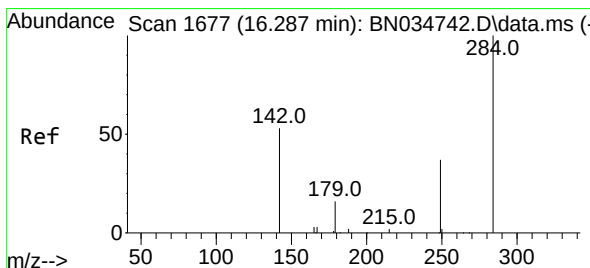
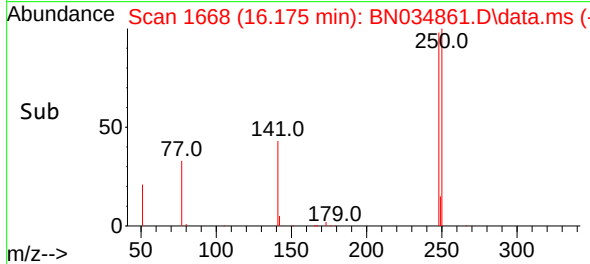
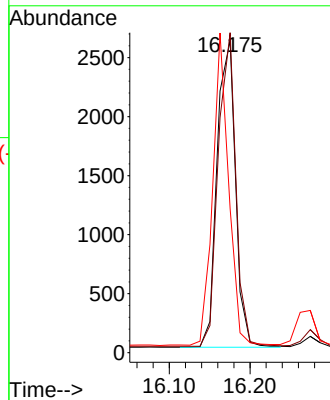
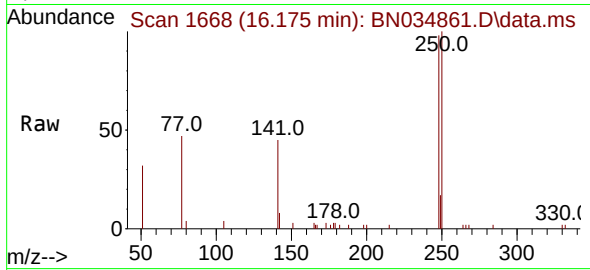
#21
4-Bromophenyl-phenylether
Concen: 0.332 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.5	78.7	118.1
141	46.2	46.4	69.6

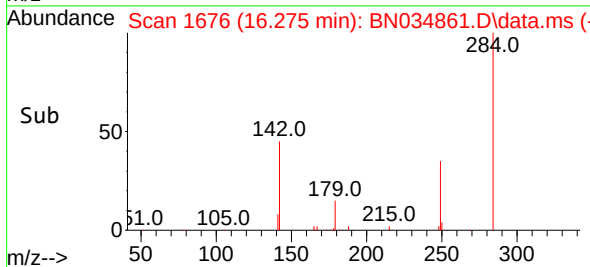
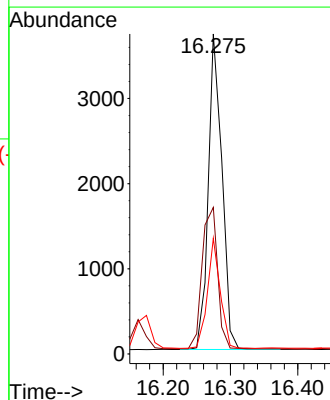
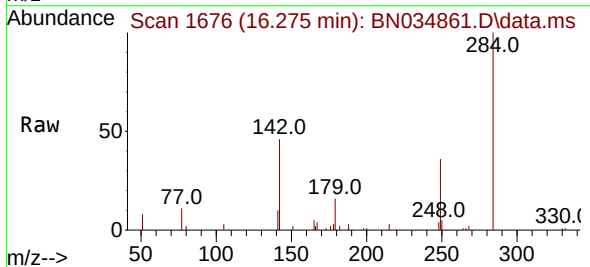
Manual Integrations
APPROVED

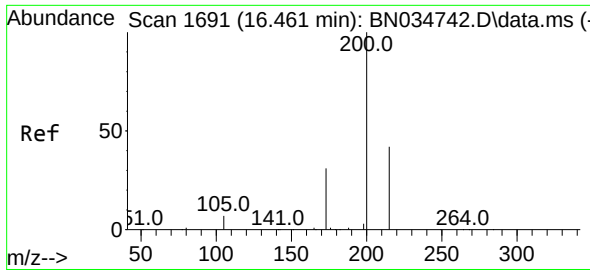
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

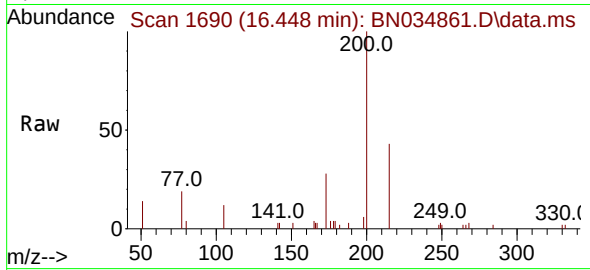
Tgt Ion	Ratio	Lower	Upper
284	100		
142	51.0	35.4	53.0
249	32.9	25.7	38.5





#23
Atrazine
Concen: 0.275 ng
RT: 16.448 min Scan# 1690
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

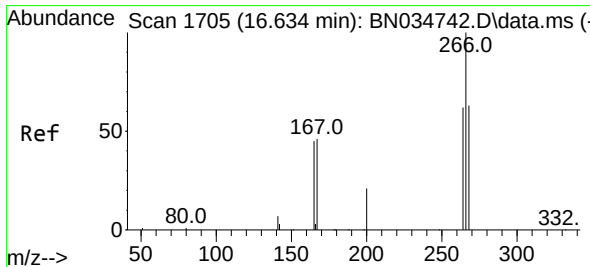
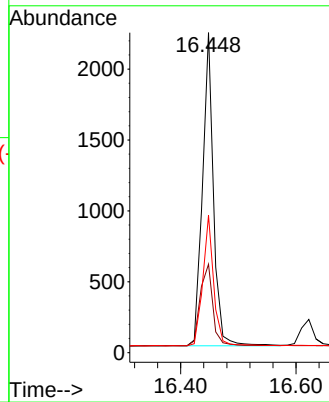
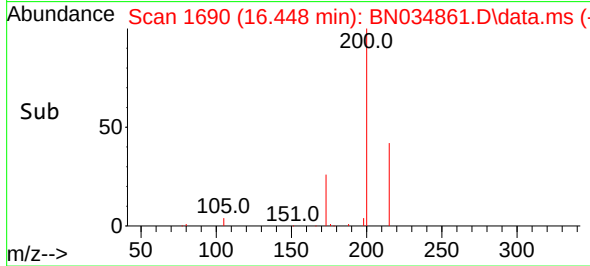
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 200 Resp: 2930
Ion Ratio Lower Upper
200 100
173 27.6 25.8 38.6
215 42.9 34.2 51.4

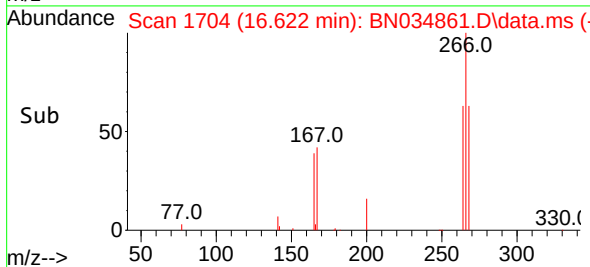
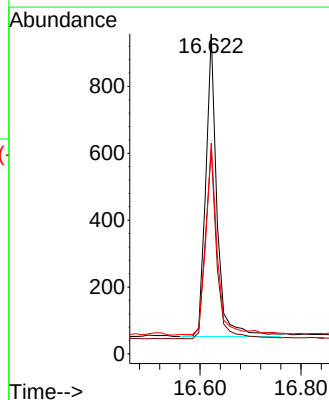
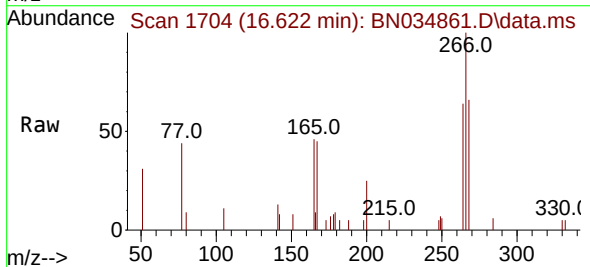
Manual Integrations
APPROVED

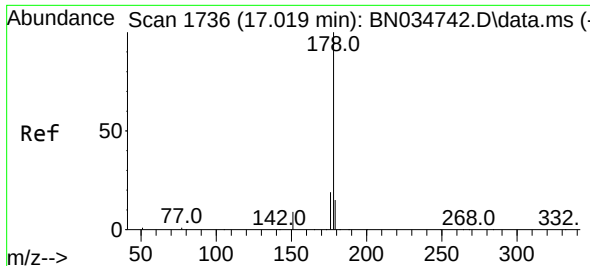
Reviewed By : Jagrut Upadhyay 11/05/2024
Supervised By : mohammad ahmed 11/06/2024



#24
Pentachlorophenol
Concen: 0.234 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

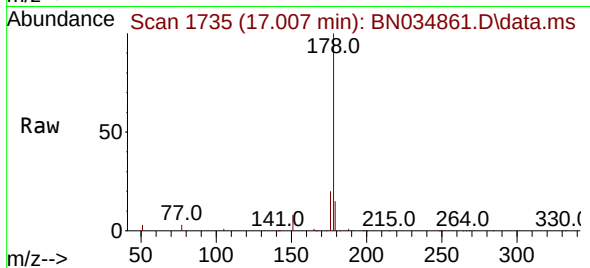
Tgt Ion: 266 Resp: 1399
Ion Ratio Lower Upper
266 100
264 63.8 48.7 73.1
268 66.2 50.2 75.4





#25
Phenanthrene
Concen: 0.384 ng
RT: 17.007 min Scan# 1741
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

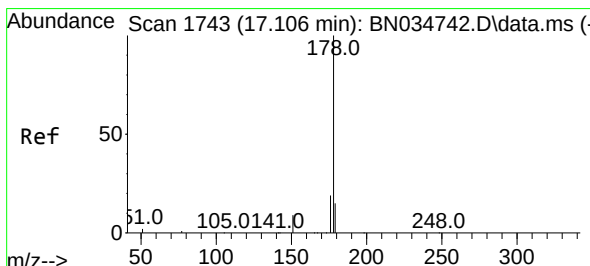
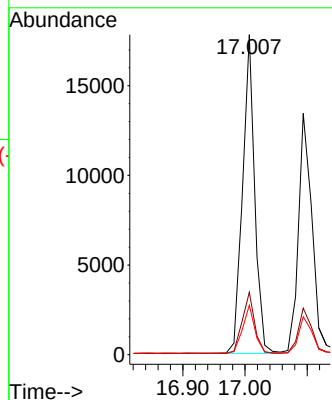
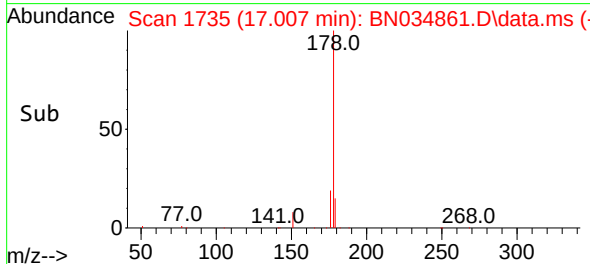
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:178 Resp: 24192
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.2 12.2 18.4

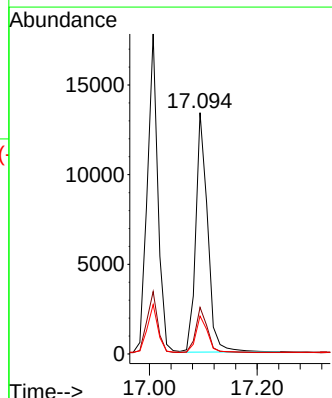
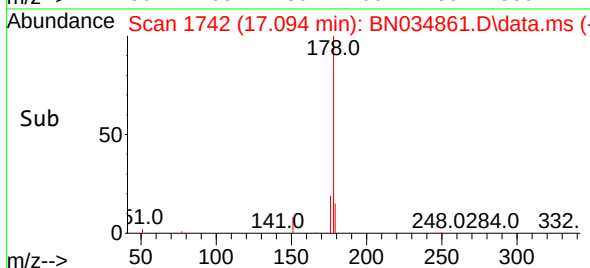
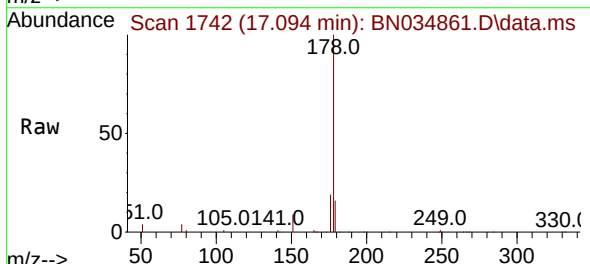
Manual Integrations
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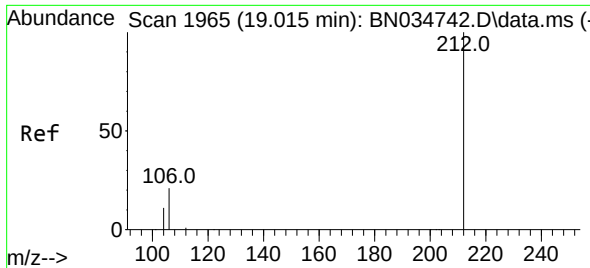
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#26
Anthracene
Concen: 0.347 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

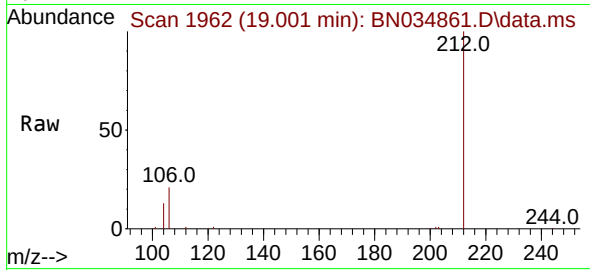
Tgt Ion:178 Resp: 20428
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.2 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.001 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

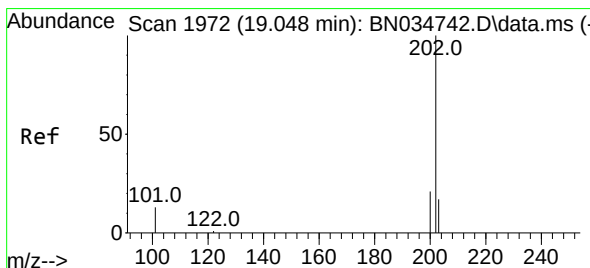
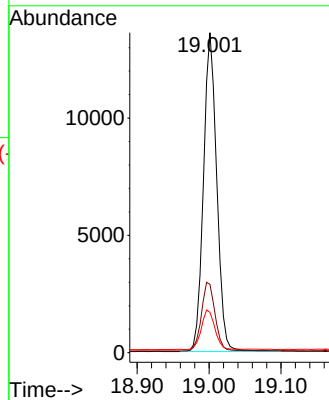
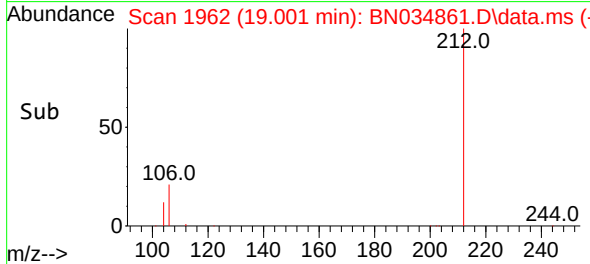
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



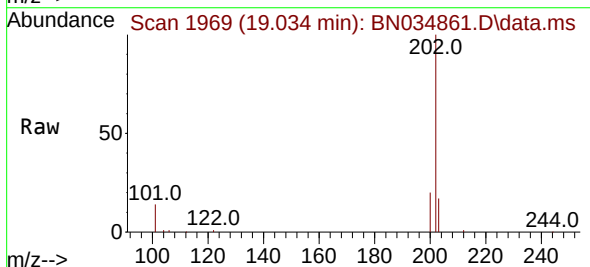
Tgt Ion:212 Resp: 1738
Ion Ratio Lower Upper
212 100
106 22.3 16.1 24.1
104 12.6 9.2 13.8

Manual Integrations
APPROVED

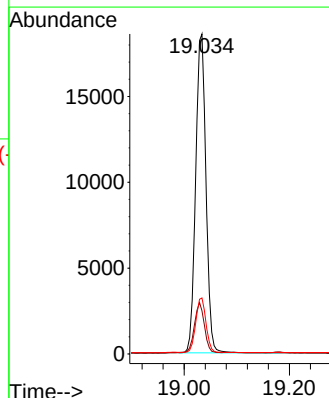
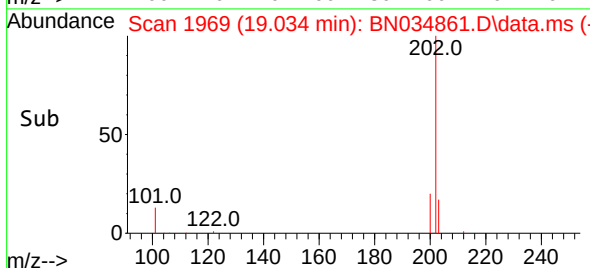
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024

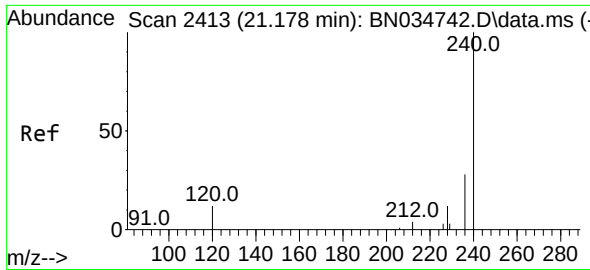


#28
Fluoranthene
Concen: 0.364 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09



Tgt Ion:202 Resp: 25234
Ion Ratio Lower Upper
202 100
101 15.4 11.4 17.0
203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.160 min Scan# 2411

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

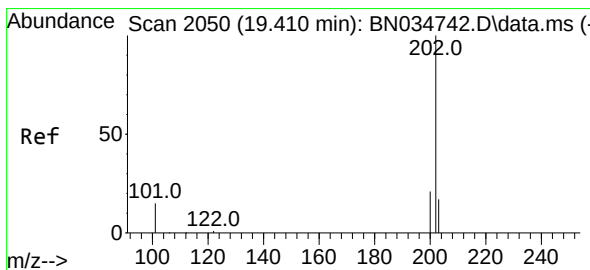
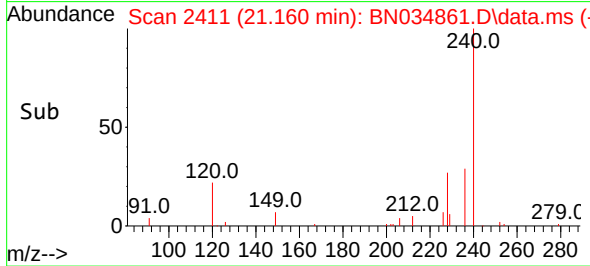
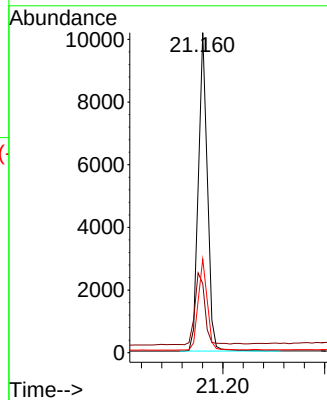
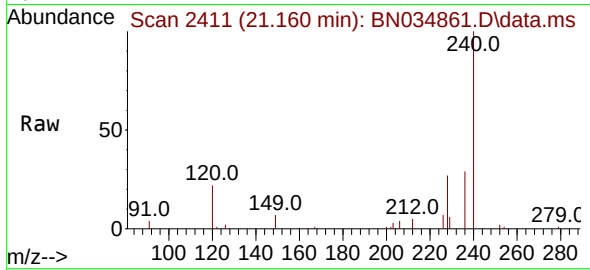
SSTDCCC0.4EC

Tgt Ion:	240	Resp:	1248
Ion Ratio	Lower	Upper	
240	100		
120	21.5	11.5	17.3
236	29.2	23.2	34.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#30

Pyrene

Concen: 0.390 ng

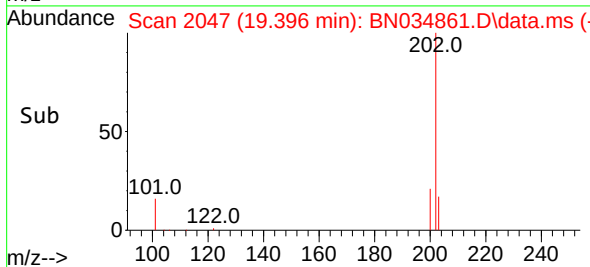
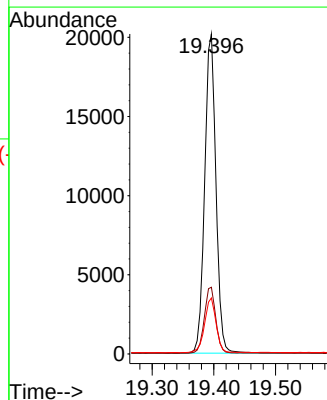
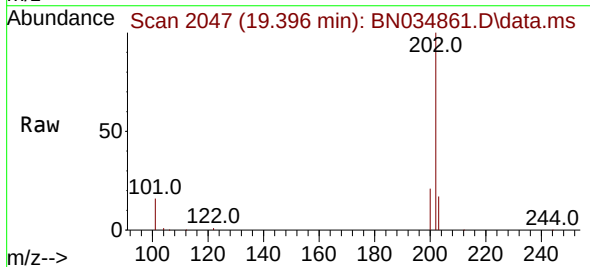
RT: 19.396 min Scan# 2047

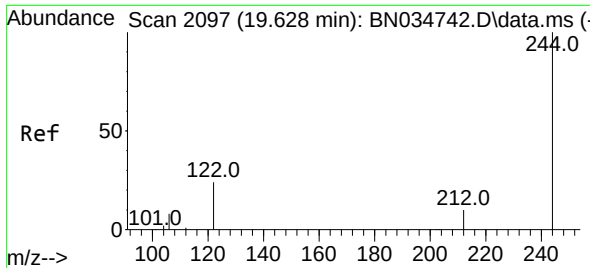
Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Tgt Ion:	202	Resp:	25452
Ion Ratio	Lower	Upper	
202	100		
200	21.0	17.0	25.4
203	17.6	14.2	21.2





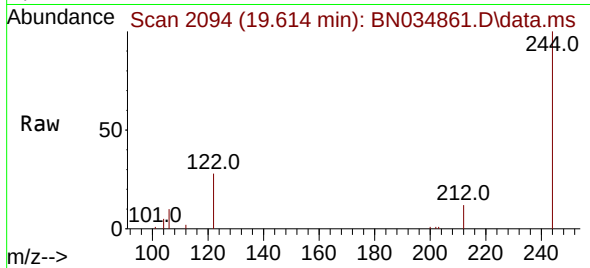
#31
Terphenyl-d14
Concen: 0.342 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

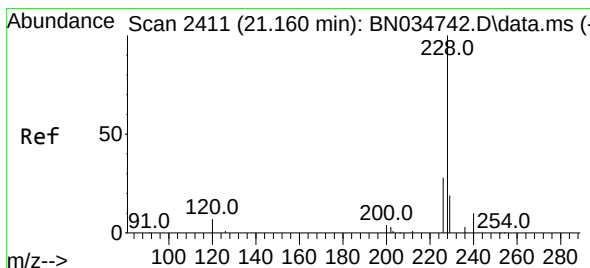
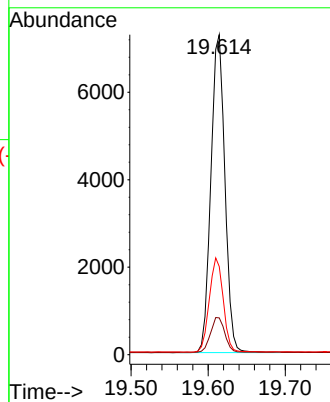
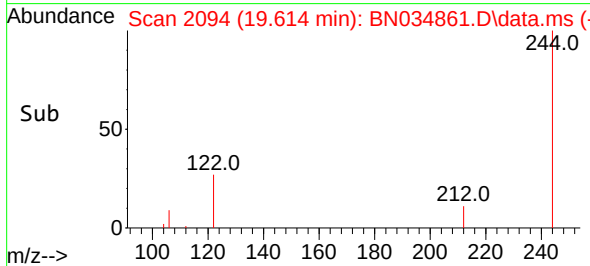


Tgt Ion:244 Resp: 917
Ion Ratio Lower Upper
244 100
212 11.5 8.2 12.4
122 27.6 19.8 29.6

Manual Integrations

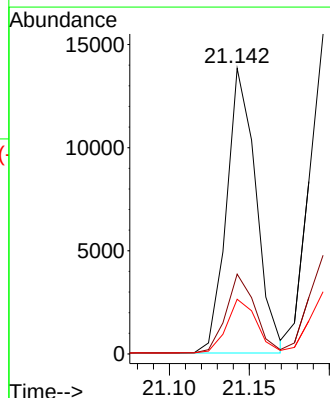
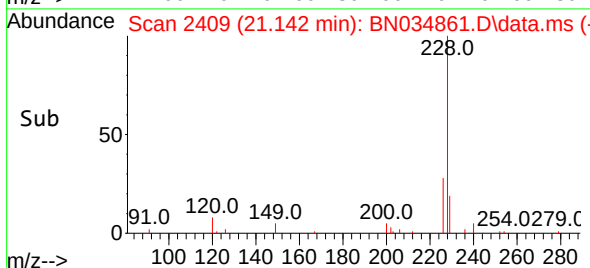
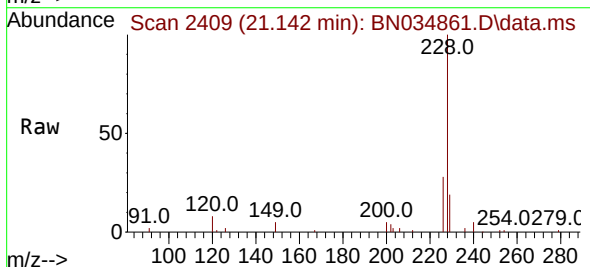
APPROVED

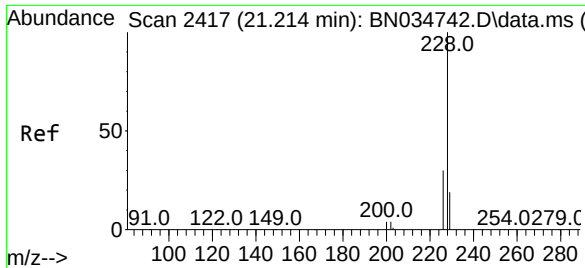
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

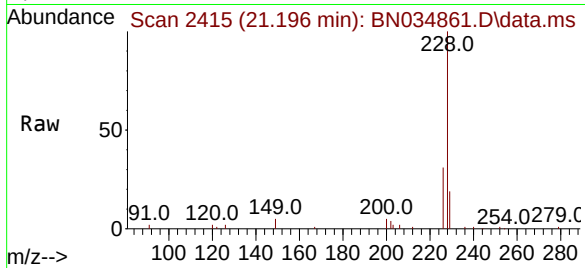
Tgt Ion:228 Resp: 17648
Ion Ratio Lower Upper
228 100
226 28.0 22.6 33.8
229 19.1 15.7 23.5





#33
Chrysene
Concen: 0.396 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

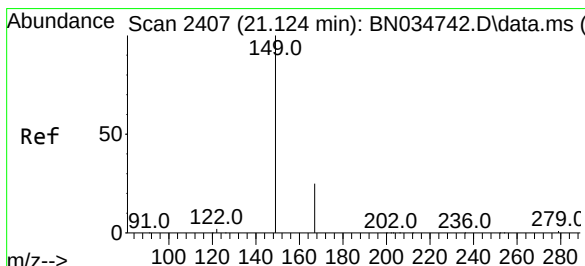
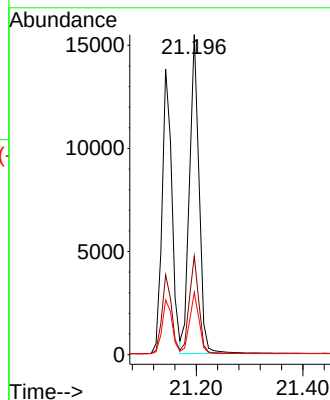
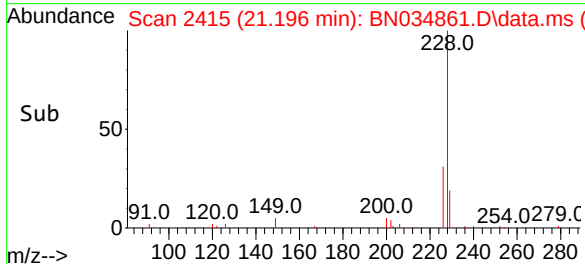
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 228 Resp: 1926
Ion Ratio Lower Upper
228 100
226 30.9 24.4 36.6
229 19.5 15.6 23.4

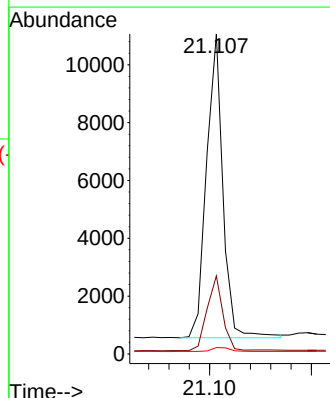
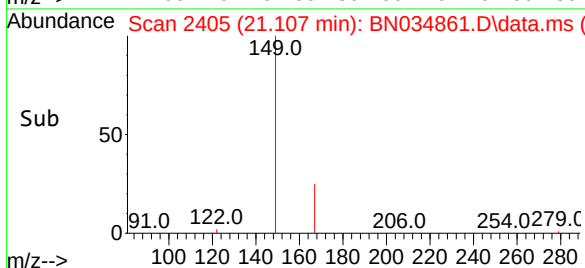
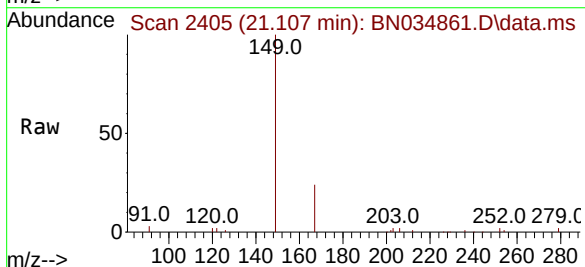
Manual Integrations
APPROVED

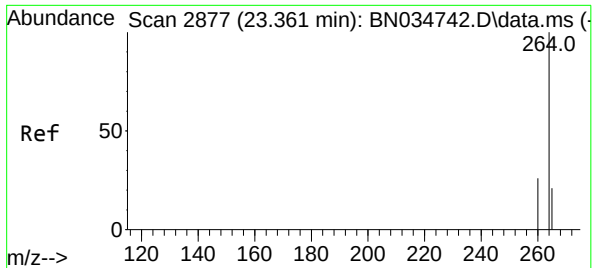
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

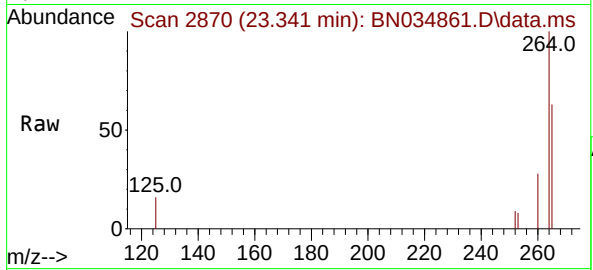
Tgt Ion: 149 Resp: 11721
Ion Ratio Lower Upper
149 100
167 23.6 20.6 30.8
279 1.5 1.5 2.3





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

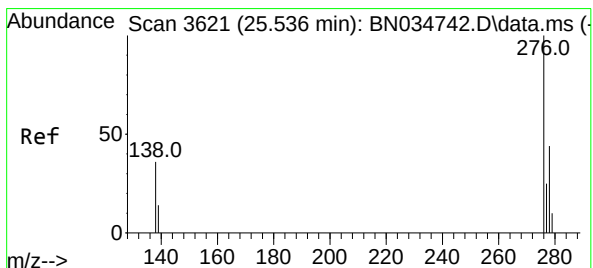
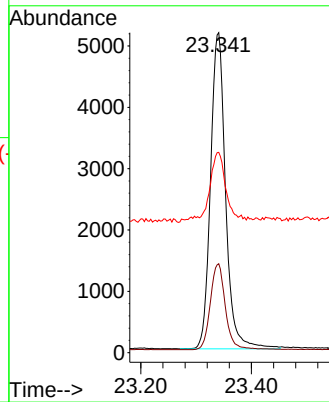
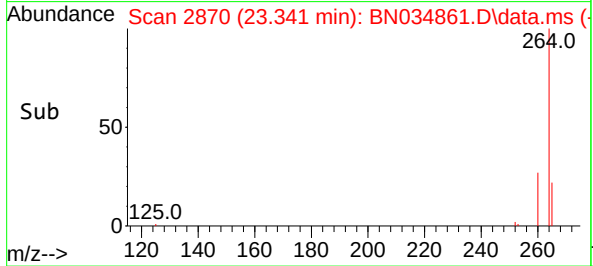
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 973
Ion Ratio Lower Upper
264 100
260 27.8 21.5 32.3
265 62.6 47.5 71.3

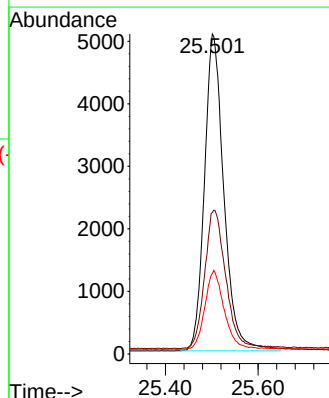
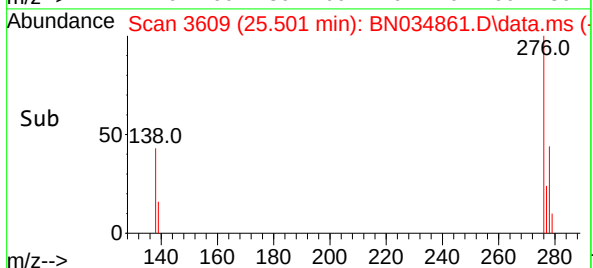
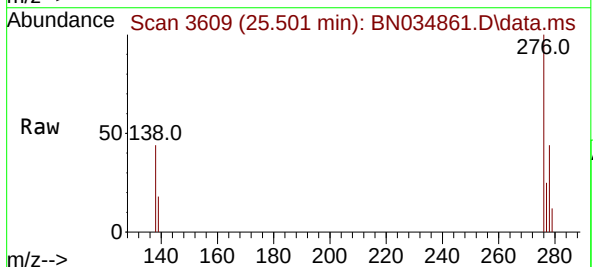
Manual Integrations
APPROVED

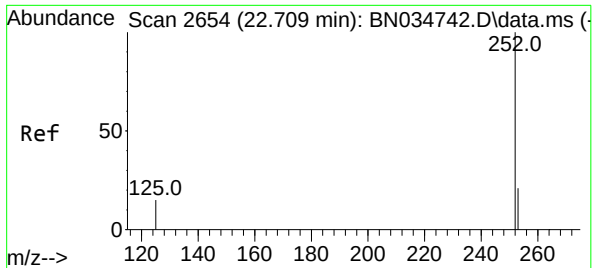
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.501 min Scan# 3609
Delta R.T. -0.003 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

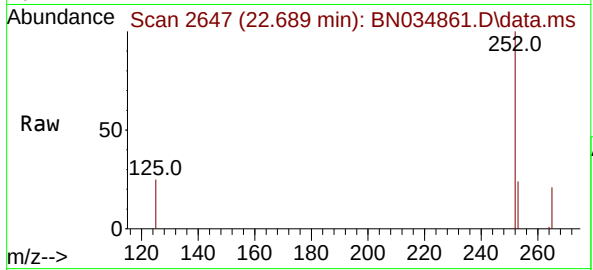
Tgt Ion:276 Resp: 14740
Ion Ratio Lower Upper
276 100
138 47.2 31.5 47.3
277 24.6 19.7 29.5





#37
Benzo(b)fluoranthene
Concen: 0.406 ng
RT: 22.689 min Scan# 2647
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

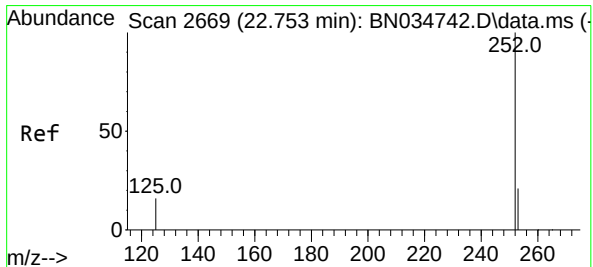
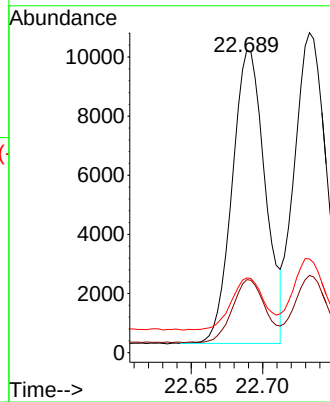
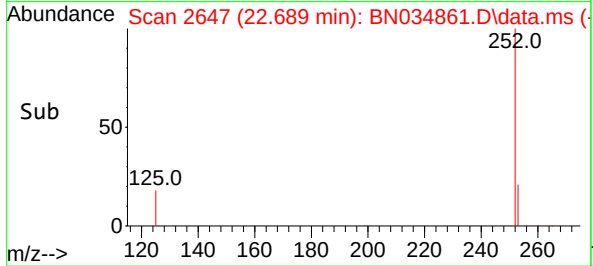
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:252 Resp: 1590
Ion Ratio Lower Upper
252 100
253 24.1 19.7 29.5
125 24.7 17.1 25.7

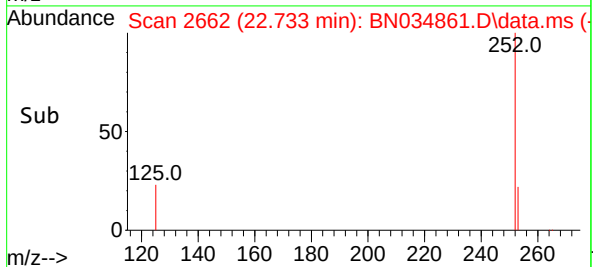
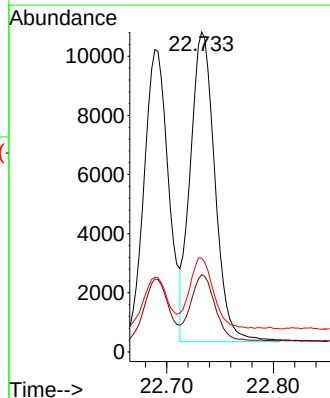
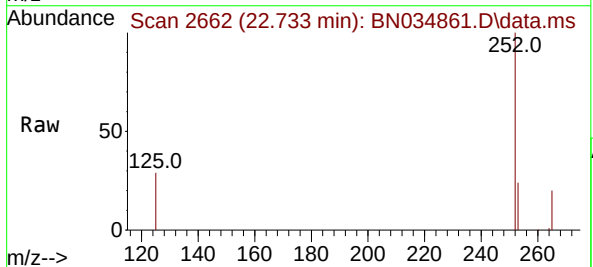
Manual Integrations
APPROVED

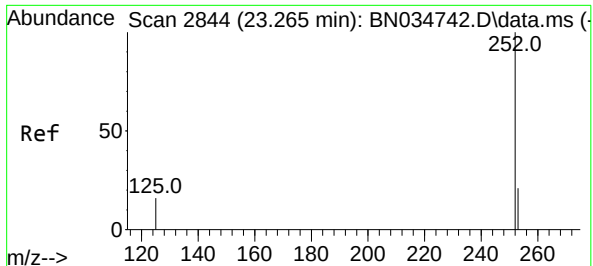
Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#38
Benzo(k)fluoranthene
Concen: 0.439 ng m
RT: 22.733 min Scan# 2662
Delta R.T. 0.003 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:252 Resp: 16776
Ion Ratio Lower Upper
252 100
253 24.2 19.8 29.6
125 29.3 18.2 27.2#





#39

Benzo(a)pyrene

Concen: 0.369 ng

RT: 23.241 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

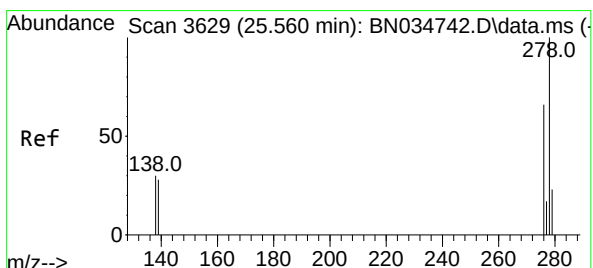
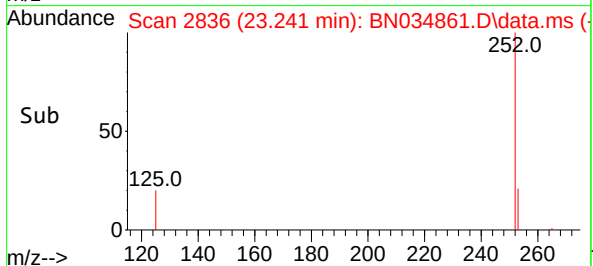
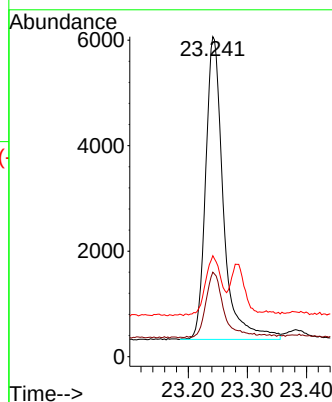
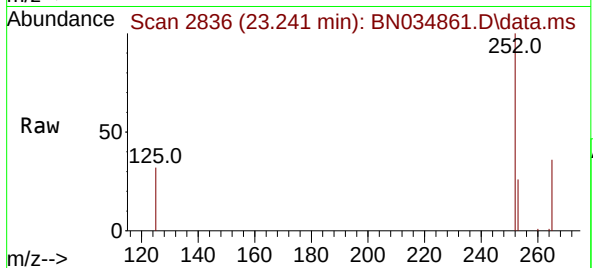
SSTDCCC0.4EC

Tgt Ion:	252	Resp:	1194
Ion Ratio	Lower	Upper	
252	100		
253	26.4	20.7	31.1
125	31.6	20.3	30.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

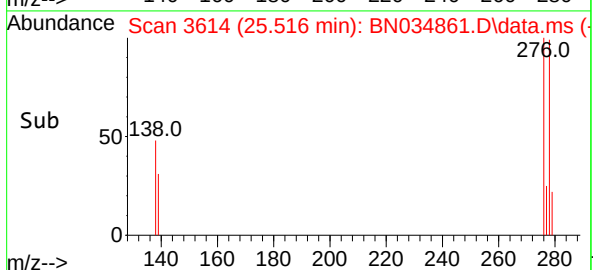
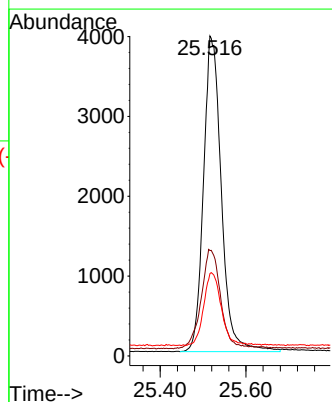
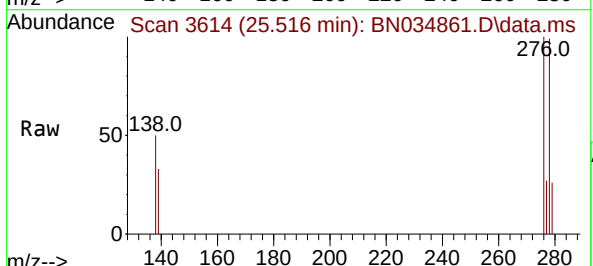
RT: 25.516 min Scan# 3614

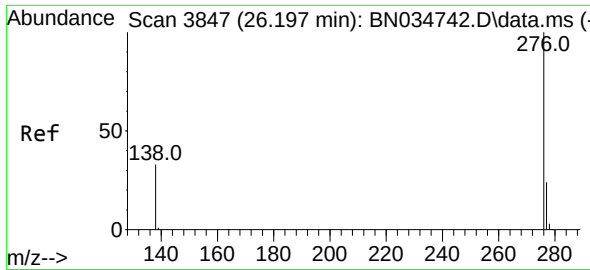
Delta R.T. -0.009 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

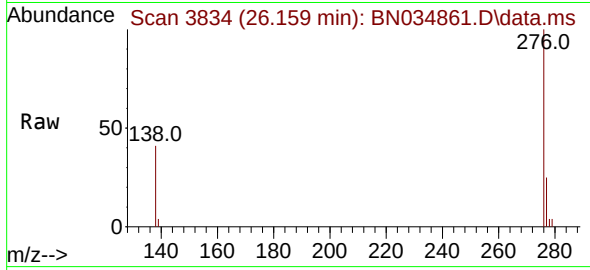
Tgt Ion:	278	Resp:	11413
Ion Ratio	Lower	Upper	
278	100		
139	33.0	24.9	37.3
279	25.8	21.0	31.4





#41
Benzo(g,h,i)perylene
Concen: 0.401 ng
RT: 26.159 min Scan# 3847
Delta R.T. -0.006 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

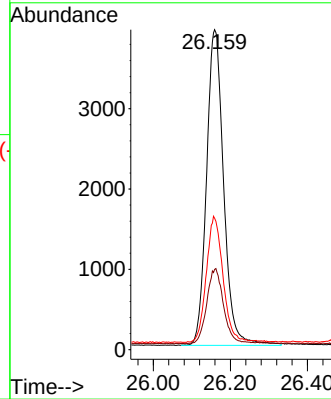
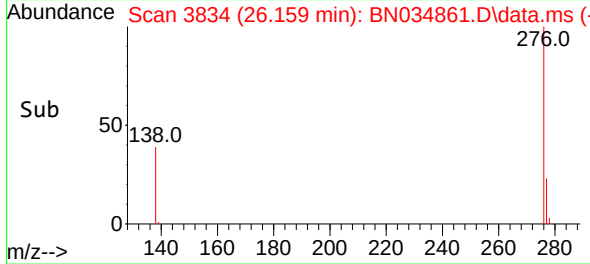
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 276 Resp: 12092
Ion Ratio Lower Upper
276 100
277 25.1 20.2 30.2
138 41.0 28.7 43.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 11/05/2024
Supervised By :mohammad ahmed 11/06/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034861.D
Acq On : 05 Nov 2024 04:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 04:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	85	0.00
2	1,4-Dioxane	0.439	0.451	-2.7	95	0.00
3	n-Nitrosodimethylamine	0.494	0.605	-22.5	118	0.00
4 S	2-Fluorophenol	1.212	1.041	14.1	81	0.00
5 S	Phenol-d6	1.574	1.409	10.5	86	0.00
6	bis(2-Chloroethyl)ether	1.149	1.173	-2.1	95	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	89	0.00
8 S	Nitrobenzene-d5	0.314	0.279	11.1	89	0.00
9	Naphthalene	1.106	1.027	7.1	92	0.00
10	Hexachlorobutadiene	0.182	0.167	8.2	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.579	0.506	12.6	87	0.00
12	2-Methylnaphthalene	0.723	0.631	12.7	86	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.198	0.105	47.0#	53	0.00
15 S	2-Fluorobiphenyl	1.575	1.451	7.9	85	0.00
16	Acenaphthylene	2.007	1.630	18.8	77	0.00
17	Acenaphthene	1.337	1.157	13.5	81	0.00
18	Fluorene	1.667	1.453	12.8	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.059	0.033	44.1#	57	0.00
21	4-Bromophenyl-phenylether	0.231	0.192	16.9	70	0.00
22	Hexachlorobenzene	0.259	0.244	5.8	79	0.00
23	Atrazine	0.199	0.137	31.2#	59	0.00
24	Pentachlorophenol	0.112	0.065	42.0#	55	0.00
25	Phenanthrene	1.176	1.130	3.9	81	0.00
26	Anthracene	1.101	0.954	13.4	74	0.00
27 SURR	Fluoranthene-d10	0.938	0.812	13.4	73	0.00
28	Fluoranthene	1.297	1.179	9.1	77	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	72	0.00
30	Pyrene	2.091	2.039	2.5	76	0.00
31 S	Terphenyl-d14	0.859	0.735	14.4	67	0.00
32	Benzo(a)anthracene	1.592	1.414	11.2	73	0.00
33	Chrysene	1.559	1.543	1.0	79	0.00
34	Bis(2-ethylhexyl)phthalate	1.331	0.939	29.5#	52	0.00
35 I	Perylene-d12	1.000	1.000	0.0	66	0.00
36	Indeno(1,2,3-cd)pyrene	1.471	1.514	-2.9	75	0.00
37	Benzo(b)fluoranthene	1.610	1.634	-1.5	75	0.00
38	Benzo(k)fluoranthene	1.571	1.724	-9.7	82	0.00
39 C	Benzo(a)pyrene	1.329	1.227	7.7	69	0.00
40	Dibenzo(a,h)anthracene	1.147	1.173	-2.3	75	0.00
41	Benzo(g,h,i)perylene	1.240	1.242	-0.2	72	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034861.D
Acq On : 05 Nov 2024 04:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Nov 05 04:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 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	85	0.00
2	1,4-Dioxane	0.400	0.411	-2.7	95	0.00
3	n-Nitrosodimethylamine	0.400	0.490	-22.5	118	0.00
4 S	2-Fluorophenol	0.400	0.344	14.0	81	0.00
5 S	Phenol-d6	0.400	0.358	10.5	86	0.00
6	bis(2-Chloroethyl)ether	0.400	0.408	-2.0	95	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	89	0.00
8 S	Nitrobenzene-d5	0.400	0.355	11.3	89	0.00
9	Naphthalene	0.400	0.371	7.3	92	0.00
10	Hexachlorobutadiene	0.400	0.366	8.5	90	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.350	12.5	87	0.00
12	2-Methylnaphthalene	0.400	0.349	12.8	86	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.400	0.212	47.0#	53	0.00
15 S	2-Fluorobiphenyl	0.400	0.368	8.0	85	0.00
16	Acenaphthylene	0.400	0.325	18.8	77	0.00
17	Acenaphthene	0.400	0.346	13.5	81	0.00
18	Fluorene	0.400	0.349	12.8	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.353	11.8	57	0.00
21	4-Bromophenyl-phenylether	0.400	0.332	17.0	70	0.00
22	Hexachlorobenzene	0.400	0.376	6.0	79	0.00
23	Atrazine	0.400	0.275	31.3#	59	0.00
24	Pentachlorophenol	0.400	0.234	41.5#	55	0.00
25	Phenanthrene	0.400	0.384	4.0	81	0.00
26	Anthracene	0.400	0.347	13.3	74	0.00
27 SURR	Fluoranthene-d10	0.400	0.346	13.5	73	0.00
28	Fluoranthene	0.400	0.364	9.0	77	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	72	0.00
30	Pyrene	0.400	0.390	2.5	76	0.00
31 S	Terphenyl-d14	0.400	0.342	14.5	67	0.00
32	Benzo(a)anthracene	0.400	0.355	11.3	73	0.00
33	Chrysene	0.400	0.396	1.0	79	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.282	29.5#	52	0.00
35 I	Perylene-d12	0.400	0.400	0.0	66	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.412	-3.0	75	0.00
37	Benzo(b)fluoranthene	0.400	0.406	-1.5	75	0.00
38	Benzo(k)fluoranthene	0.400	0.439	-9.7	82	0.00
39 C	Benzo(a)pyrene	0.400	0.369	7.8	69	0.00
40	Dibenzo(a,h)anthracene	0.400	0.409	-2.2	75	0.00
41	Benzo(g,h,i)perylene	0.400	0.401	-0.3	72	0.00

(#) = Out of Range

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



QC SAMPLE DATA

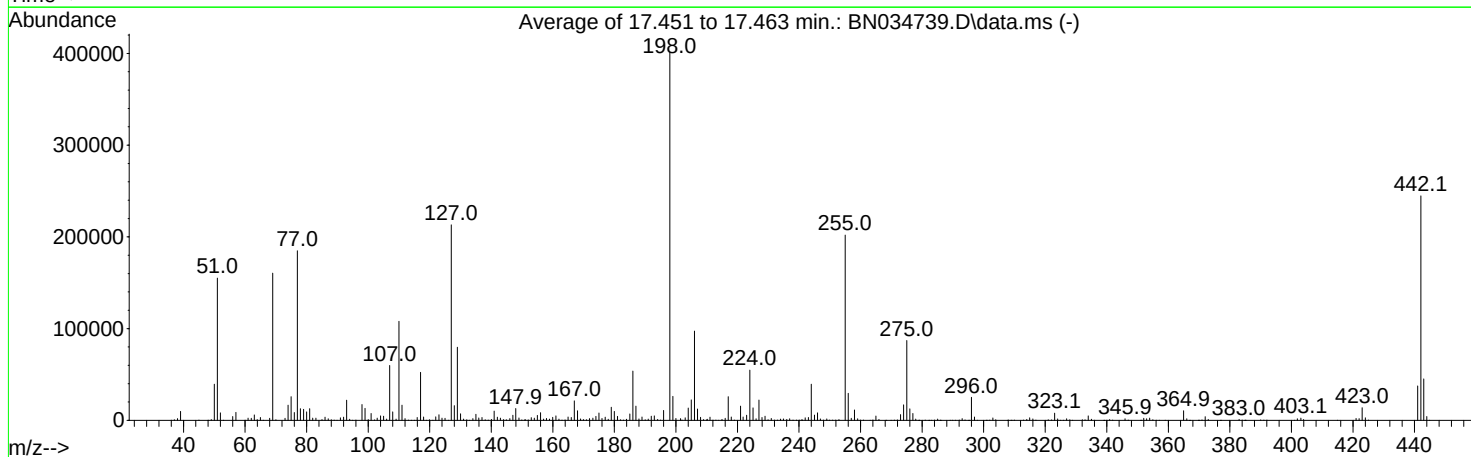
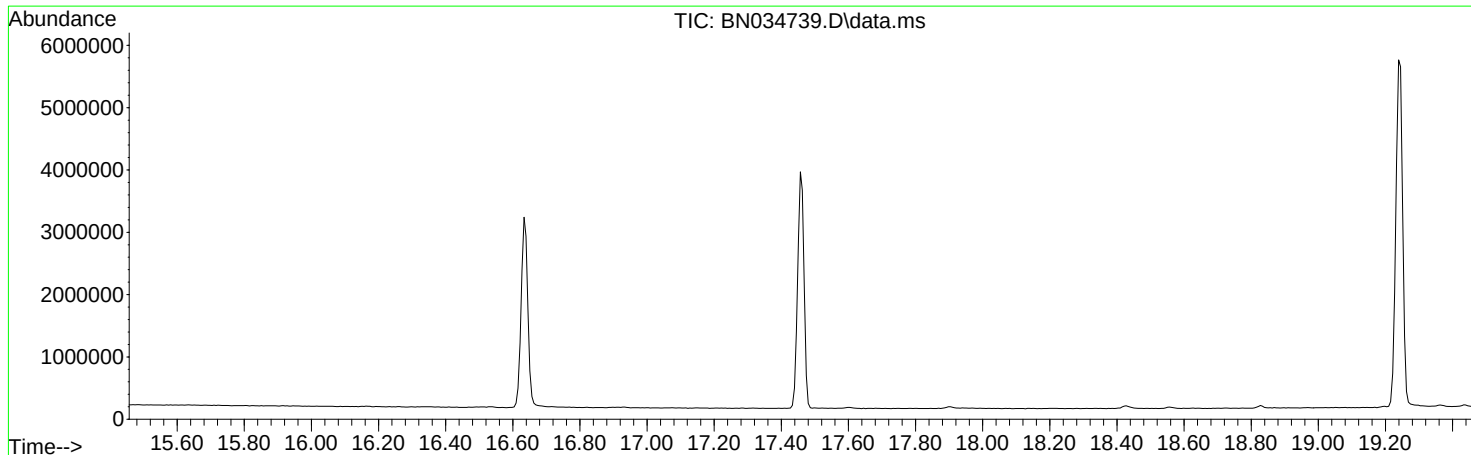
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 30 13:28:24 2024



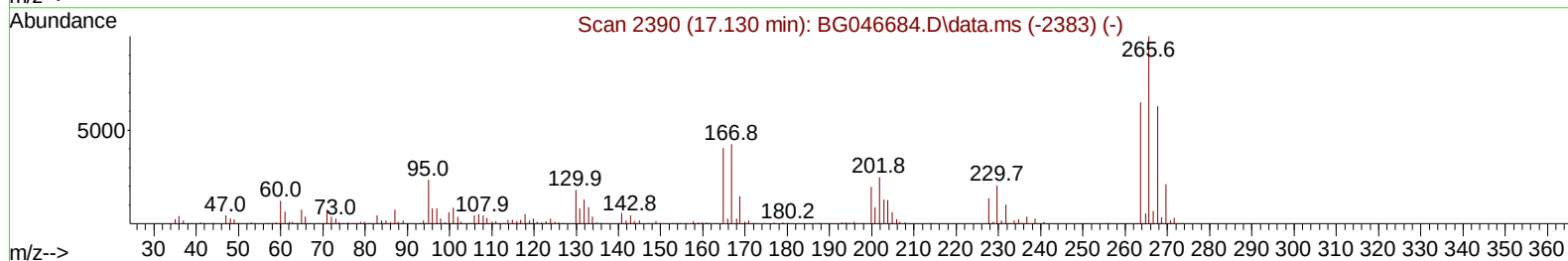
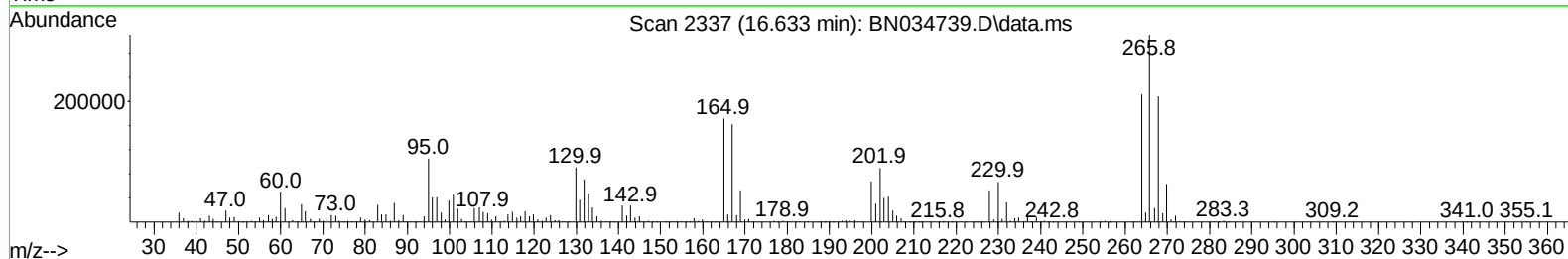
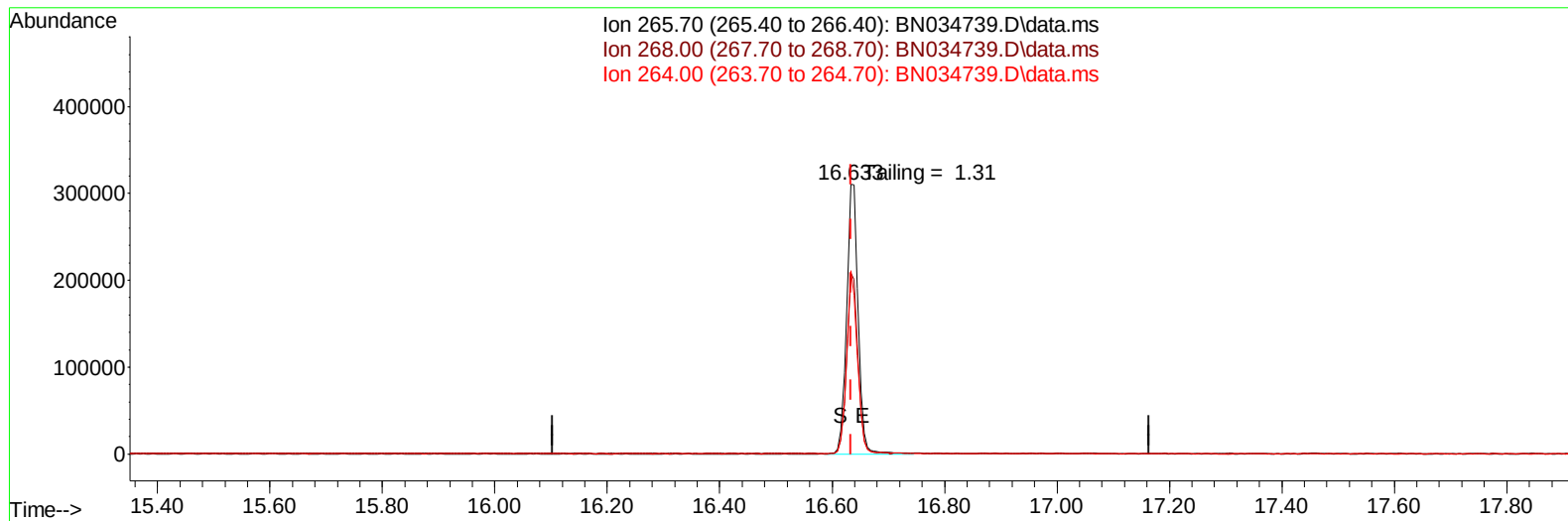
AutoFind: Scans 2476, 2477, 2478; Background Corrected with Scan 2468

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.7	155112	PASS
68	69	0.00	2	1.4	2270	PASS
69	198	0.00	100	40.0	160508	PASS
70	69	0.00	2	0.4	626	PASS
127	198	10	80	53.2	213181	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	401024	PASS
199	198	5	9	6.5	26222	PASS
275	198	10	60	21.7	87027	PASS
365	198	1	100	2.6	10522	PASS
441	198	0.01	100	9.4	37536	PASS
442	442	50	100	100.0	244821	PASS
443	442	15	24	18.5	45208	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 06:42:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration



TIC: BN034739.D\data.ms

(70) Pentachlorophenol (C)

16.633min (0.000) 23615.75 ng

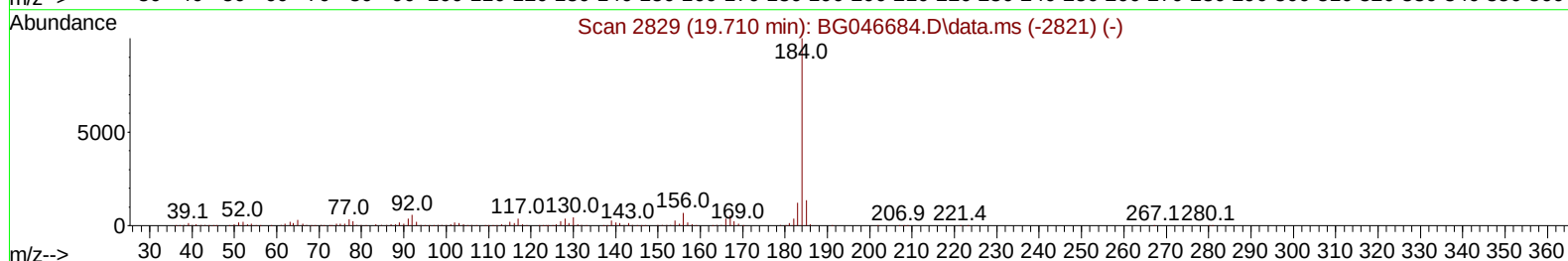
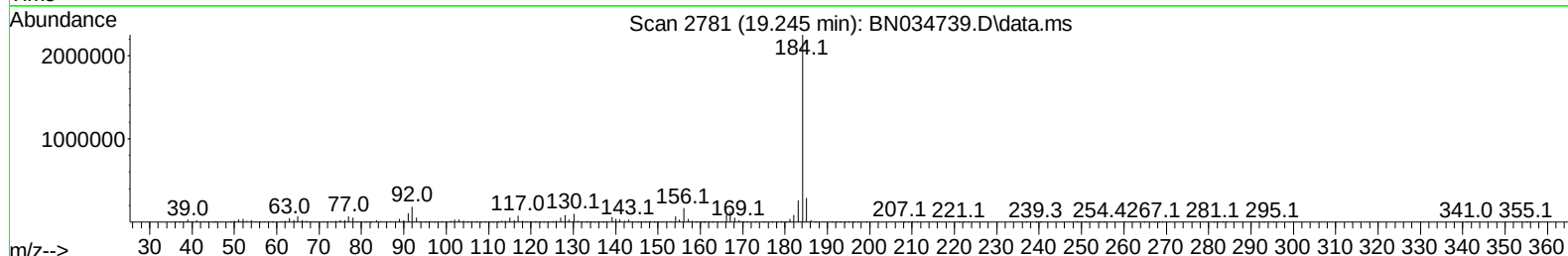
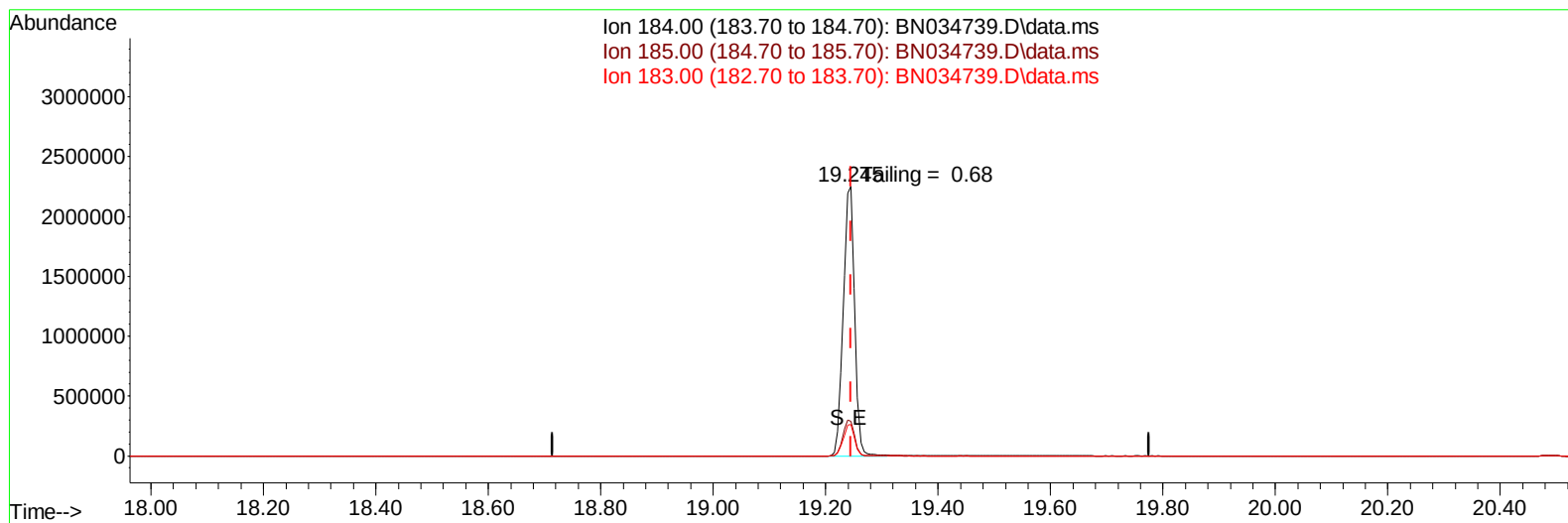
response 445905

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.99
264.00	61.60	68.12
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN103024\
Data File : BN034739.D
Acq On : 30 Oct 2024 08:41
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 06:42:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 06:42:45 2024
Response via : Initial Calibration



TIC: BN034739.D\data.ms

(77) Benzidine

19.245min (0.000) 766500.86 ng

response 3189736

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	12.97
183.00	13.20	11.61
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

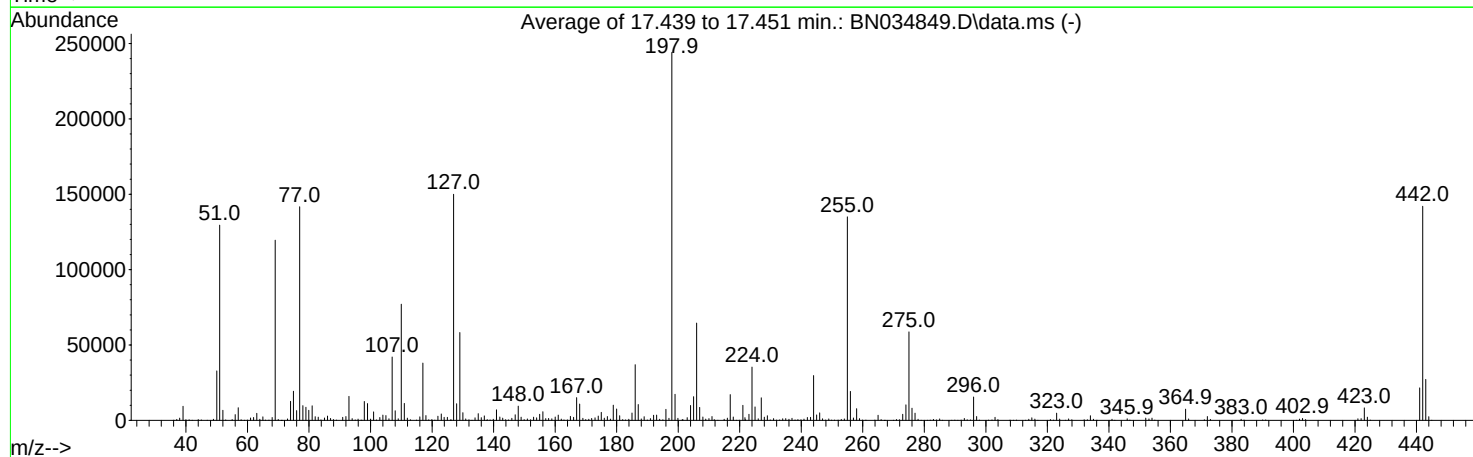
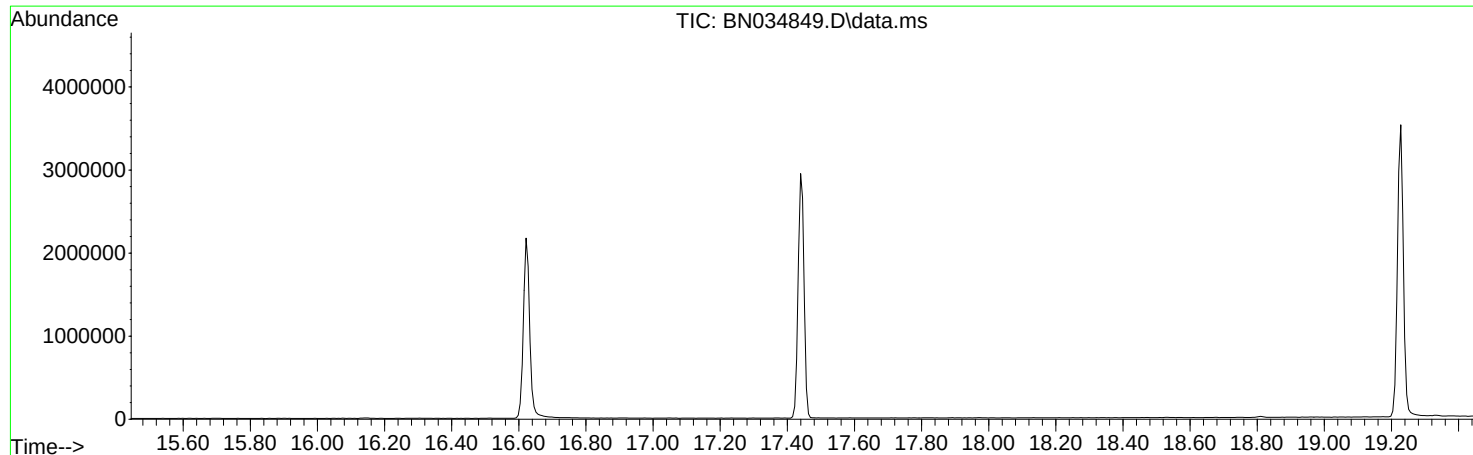
Date	Instrument Name	DFTPP Data File
10/30/2024	BNA_N	<u>BN034739.D</u>
Compound Name	Response	Retention Time
DDT	1360651	20.492
DDD	28684	20.098
DDE	0	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
28684	1389335	2.06

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034849.D
Acq On : 04 Nov 2024 20:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Nov 05 00:03:28 2024



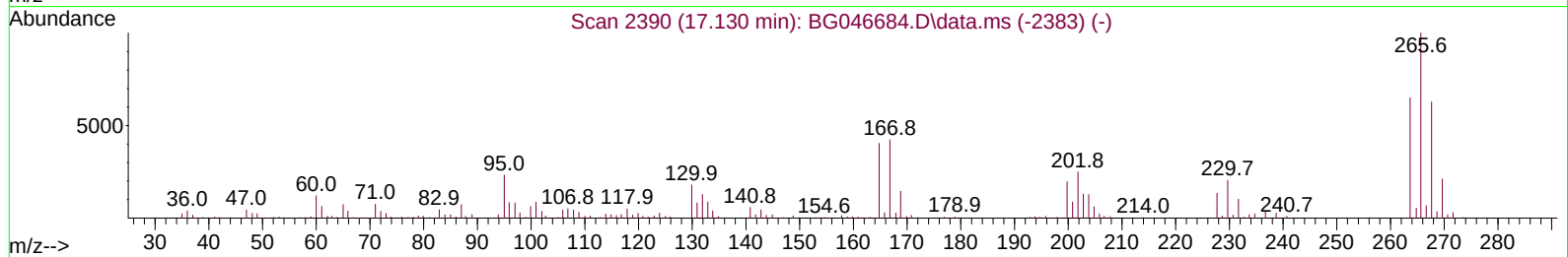
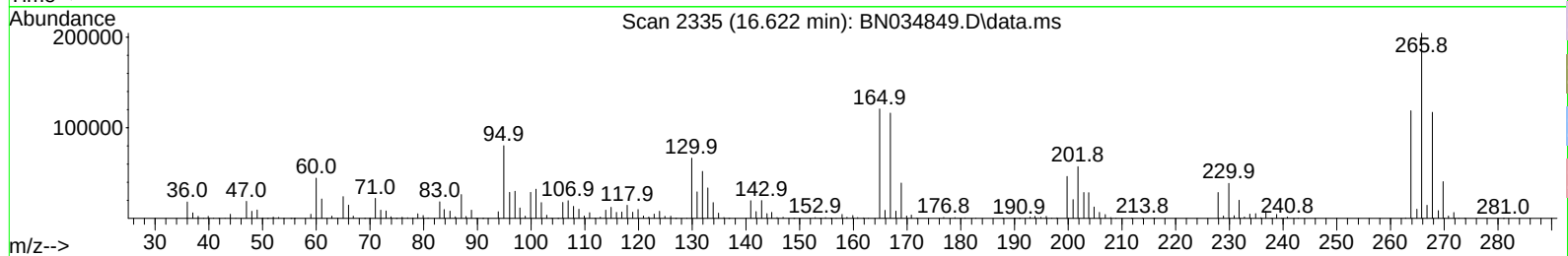
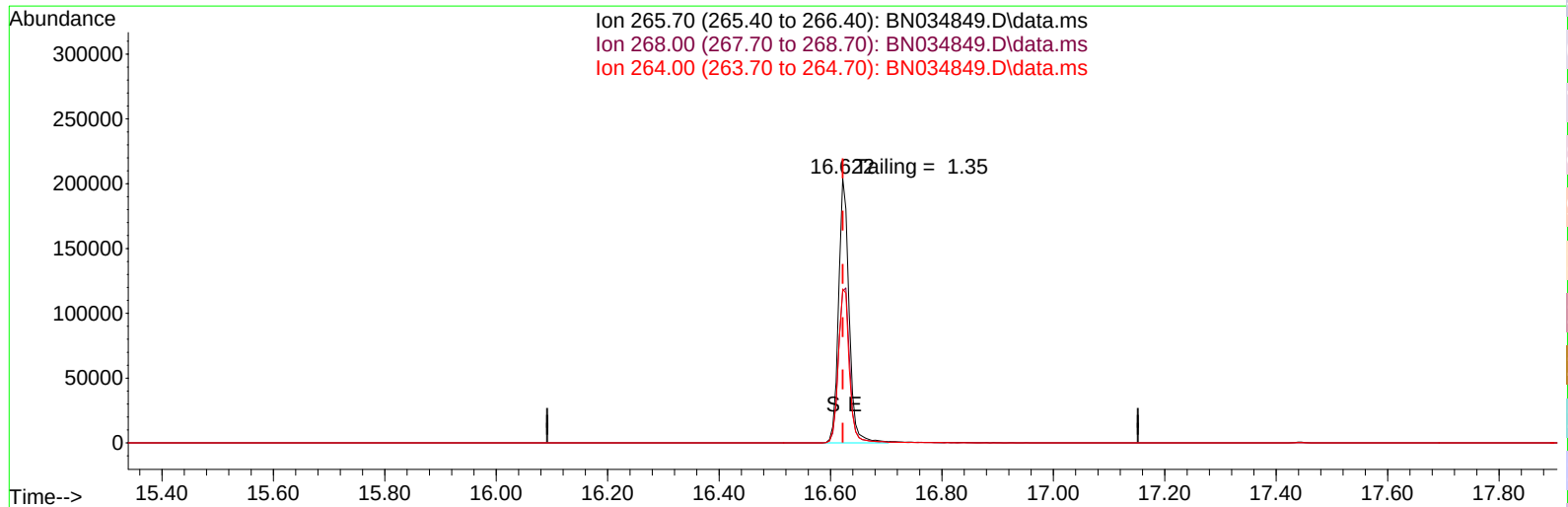
AutoFind: Scans 2474, 2475, 2476; Background Corrected with Scan 2467

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	53.1	129505	PASS
68	69	0.00	2	1.6	1938	PASS
69	198	0.00	100	49.0	119523	PASS
70	69	0.00	2	0.6	686	PASS
127	198	10	80	61.5	149968	PASS
197	198	0.00	2	0.6	1346	PASS
198	198	100	100	100.0	244032	PASS
199	198	5	9	7.1	17358	PASS
275	198	10	60	24.1	58707	PASS
365	198	1	100	3.0	7442	PASS
441	198	0.01	100	8.8	21576	PASS
442	442	50	100	100.0	142067	PASS
443	442	15	24	19.1	27149	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034849.D
Acq On : 04 Nov 2024 20:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 23:56:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 23:56:03 2024
Response via : Initial Calibration



TIC: BN034849.D\data.ms

(70) Pentachlorophenol (C)

16.622min (0.000) 21272.94 ng

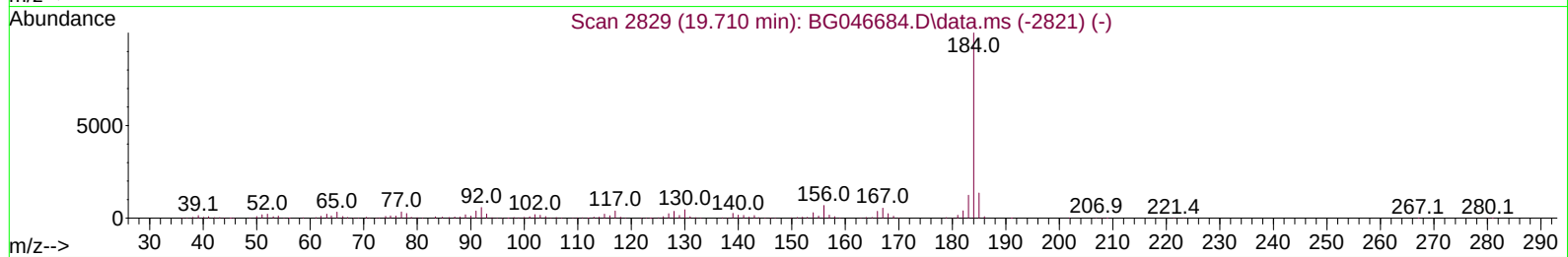
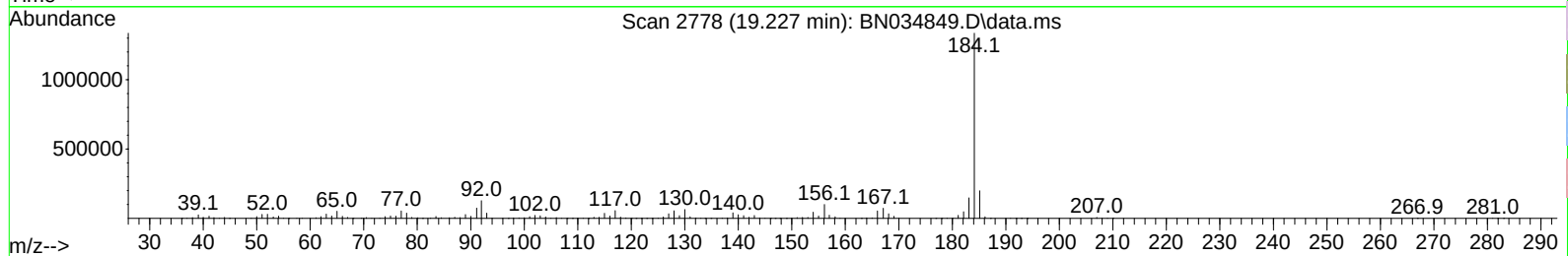
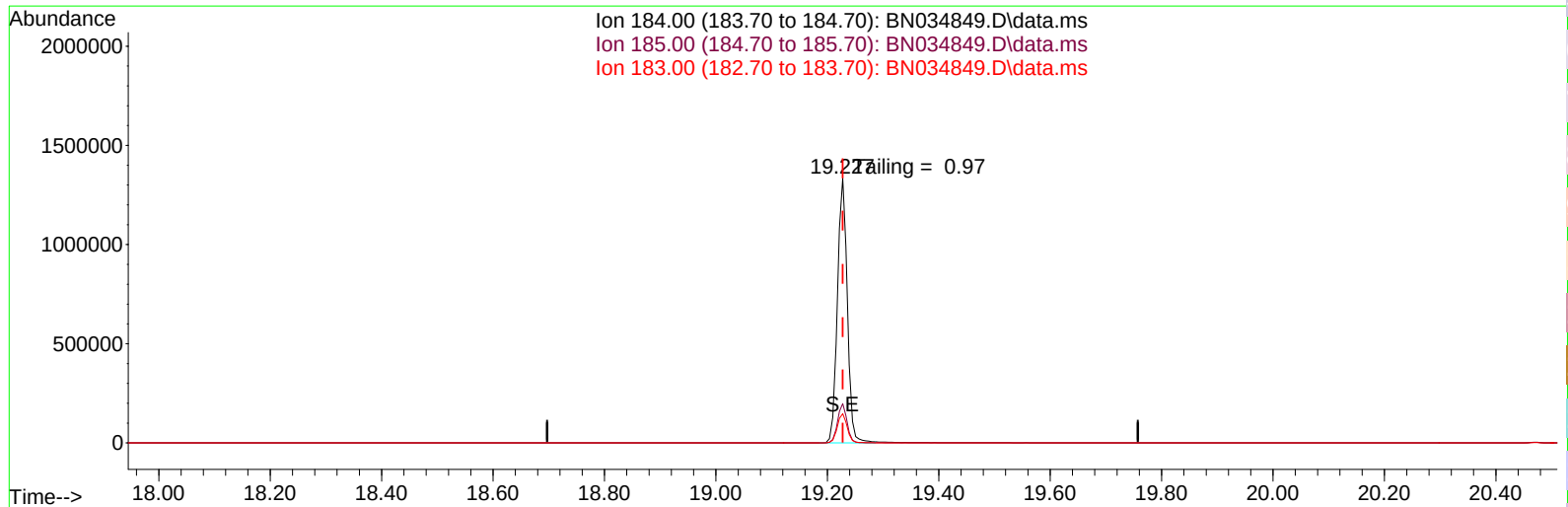
response 271619

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	57.32
264.00	61.60	58.20
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034849.D
Acq On : 04 Nov 2024 20:54
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Nov 04 23:56:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 04 23:56:03 2024
Response via : Initial Calibration



TIC: BN034849.D\data.ms

(77) Benzidine

19.227min (0.000) 0.00 ng

response 1662756

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.88
183.00	13.20	11.04
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/4/2024	BNA_N	<u>BN034849.D</u>
Compound Name	Response	Retention Time
DDT	864034	20.469
DDD	21444	20.027
DDE	934	19.522
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
22378	886412	2.52

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164511BL	SDG No.:	P4600
Lab Sample ID:	PB164511BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034851.D	1	10/29/24 12:50	11/04/24 22:09	PB164511

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		107%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		126%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6310	7.589				
1146-65-2	Naphthalene-d8	18600	10.351				
15067-26-2	Acenaphthene-d10	8720	14.222				
1517-22-2	Phenanthrene-d10	16800	16.97				
1719-03-5	Chrysene-d12	7940	21.16				
1520-96-3	Perylene-d12	6180	23.341				

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\BN110424\
Data File : BN034851.D
Acq On : 04 Nov 2024 22:09
Operator : RC/JU
Sample : PB164511BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164511BL

Quant Time: Nov 05 00:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6305	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	18630	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	8717	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	16792	0.400	ng	0.00
29) Chrysene-d12	21.160	240	7936	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	6177	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	6767	0.354	ng	0.00
5) Phenol-d6	6.773	99	9094	0.366	ng	0.00
8) Nitrobenzene-d5	8.728	82	5609	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	9867	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	746	0.173	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	14715	0.429	ng	0.00
27) Fluoranthene-d10	19.001	212	14465	0.367	ng	0.00
31) Terphenyl-d14	19.614	244	8626	0.506	ng	0.00

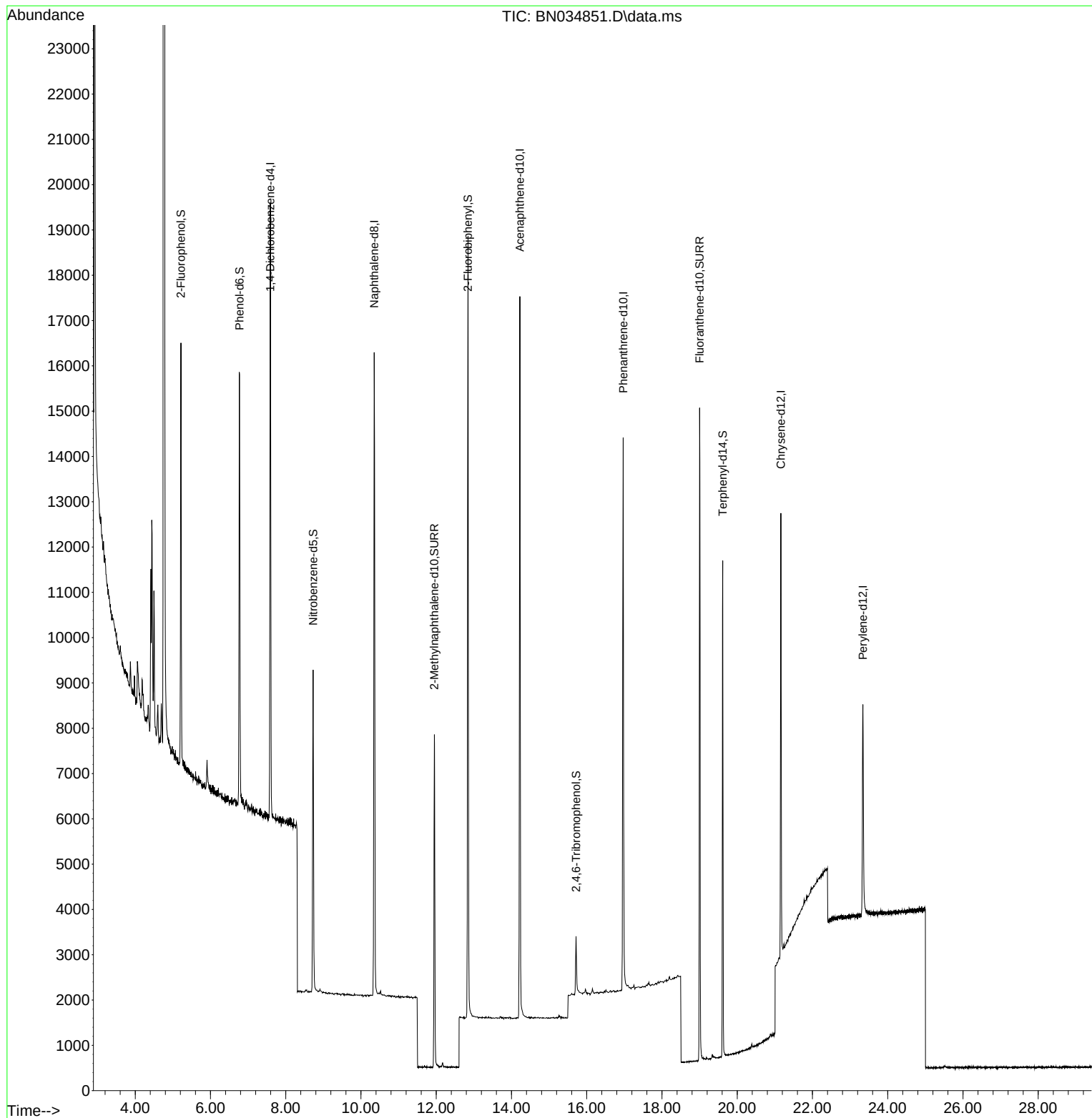
Target Compounds	Qvalue

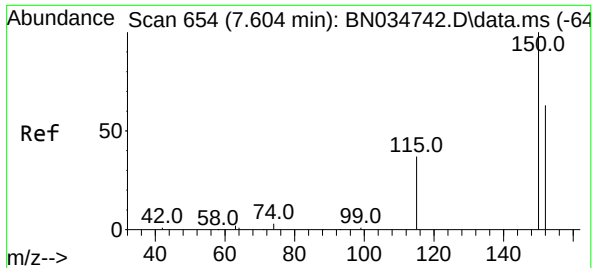
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
Data File : BN034851.D
Acq On : 04 Nov 2024 22:09
Operator : RC/JU
Sample : PB164511BL
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB164511BL

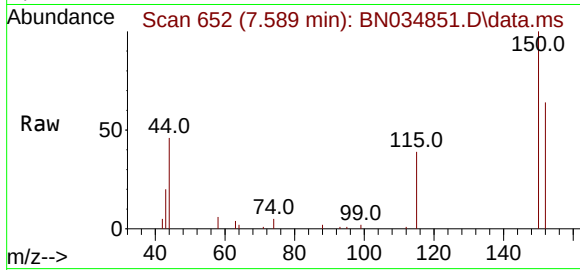
Quant Time: Nov 05 00:11:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration



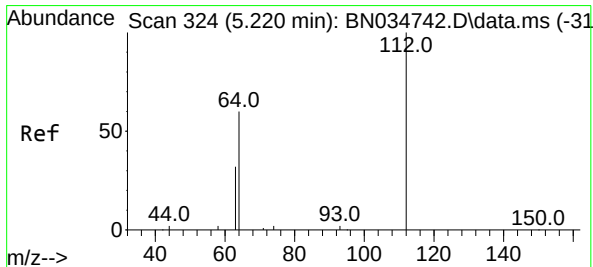
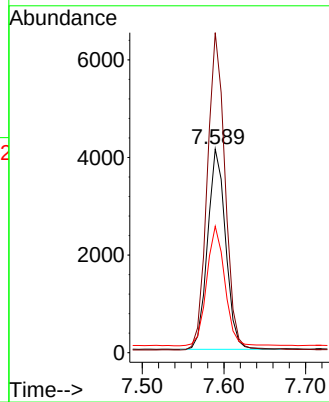
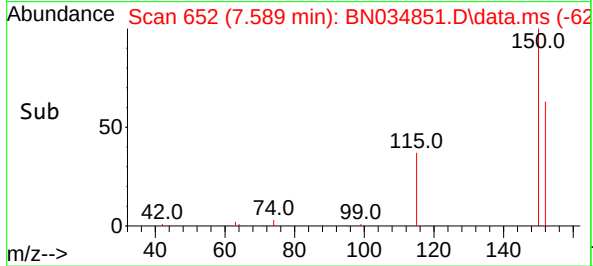


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Instrument :
BNA_N
ClientSampleId :
PB164511BL

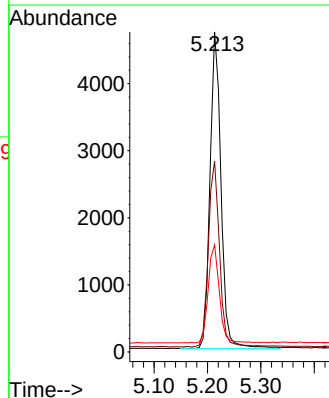
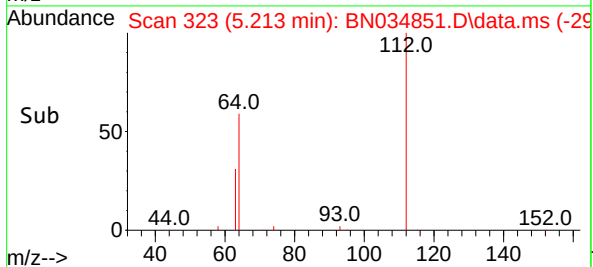
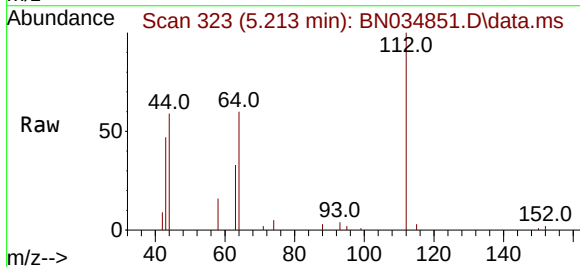


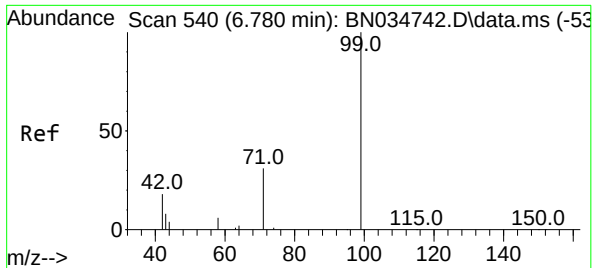
Tgt Ion:152 Resp: 6305
Ion Ratio Lower Upper
152 100
150 157.1 124.9 187.3
115 62.1 50.2 75.2



#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Tgt Ion:112 Resp: 6767
Ion Ratio Lower Upper
112 100
64 59.3 44.9 67.3
63 31.3 23.5 35.3

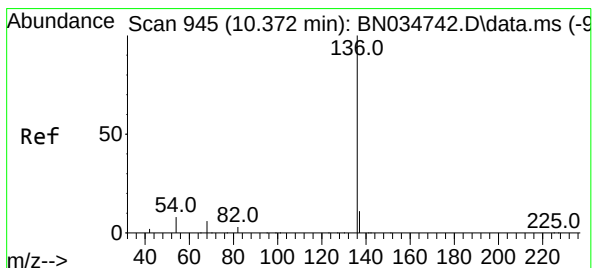
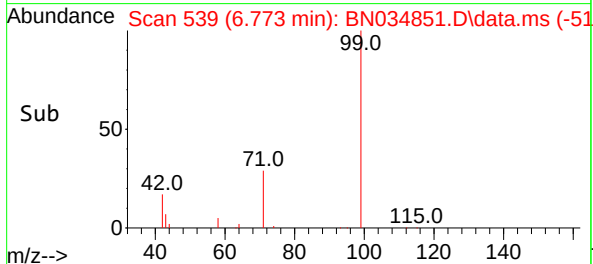
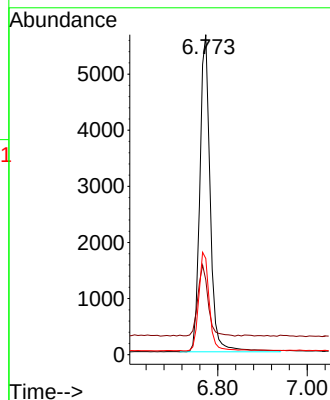
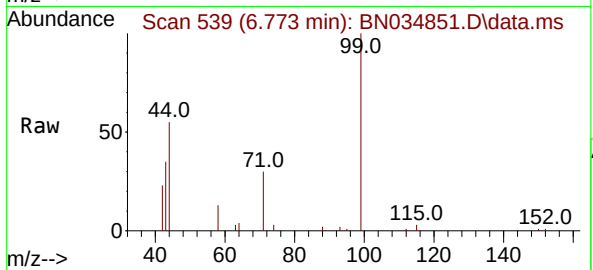




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.773 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

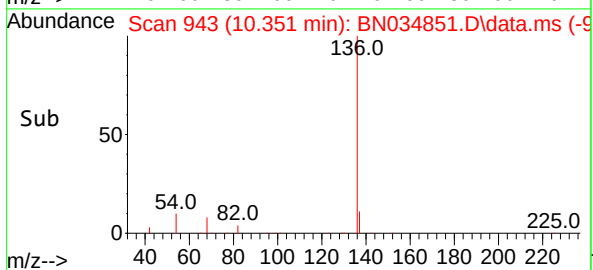
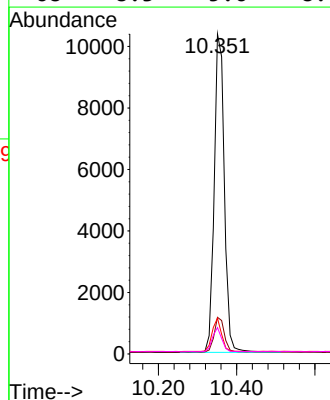
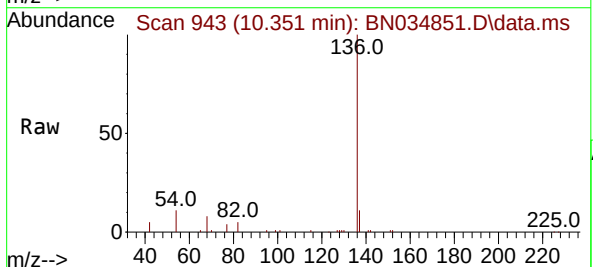
Instrument :
BNA_N
ClientSampleId :
PB164511BL

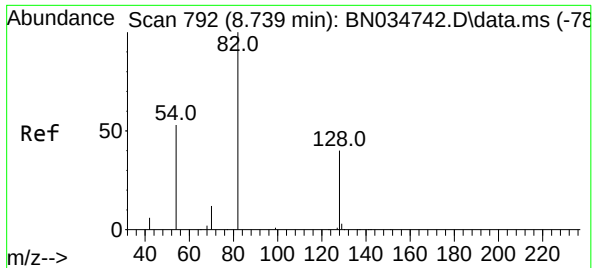
Tgt Ion: 99 Resp: 9094
Ion Ratio Lower Upper
99 100
42 22.0 15.9 23.9
71 31.6 24.3 36.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Tgt Ion: 136 Resp: 18630
Ion Ratio Lower Upper
136 100
137 11.4 9.2 13.8
54 11.2 7.0 10.4#
68 8.3 5.6 8.4

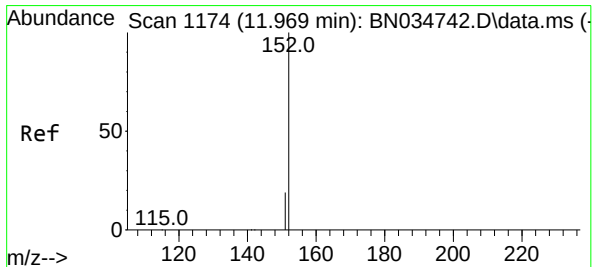
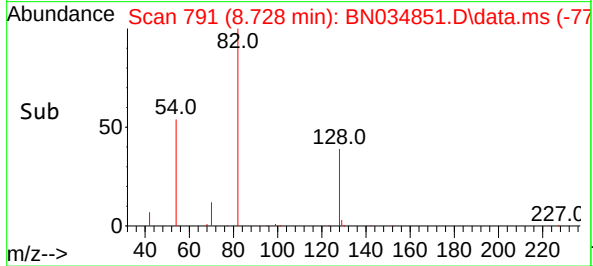
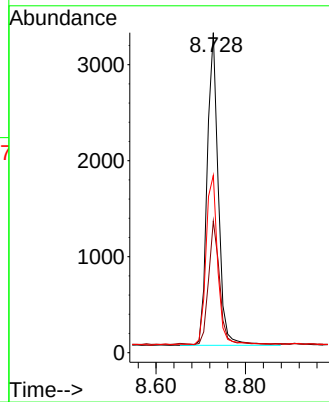
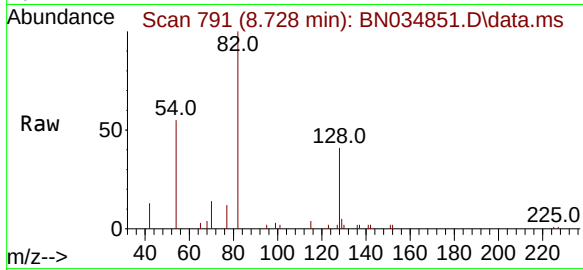




#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

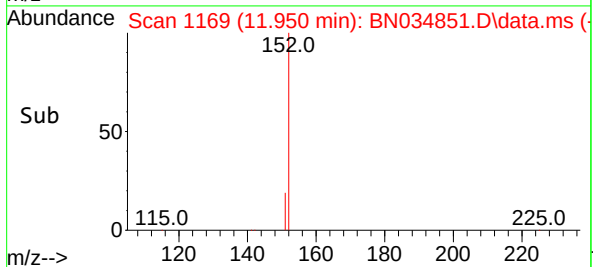
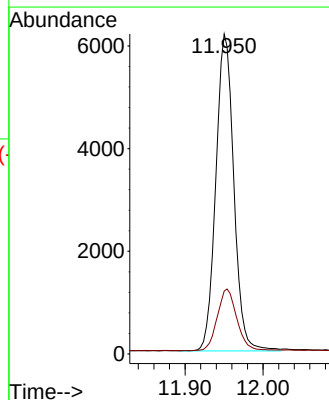
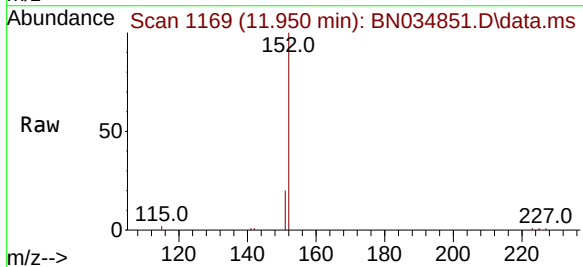
Instrument :
BNA_N
ClientSampleId :
PB164511BL

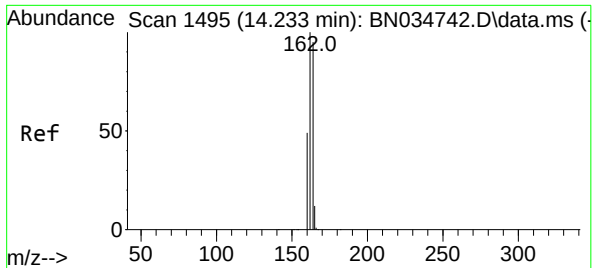
Tgt Ion:	82	Resp:	5609
Ion Ratio	Lower	Upper	
82	100		
128	41.2	33.7	50.5
54	55.4	44.4	66.6



#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 11.950 min Scan# 1169
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Tgt Ion:	152	Resp:	9867
Ion Ratio	Lower	Upper	
152	100		
151	21.5	16.6	24.8

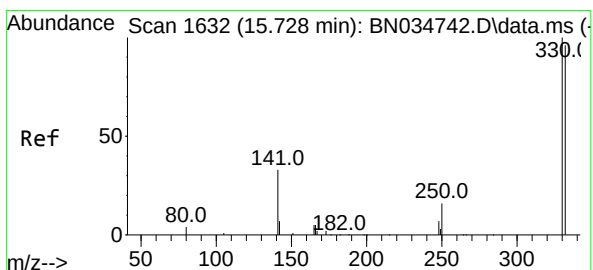
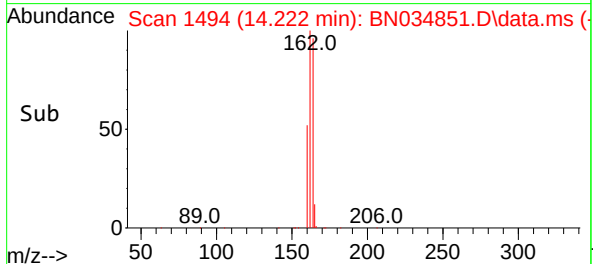
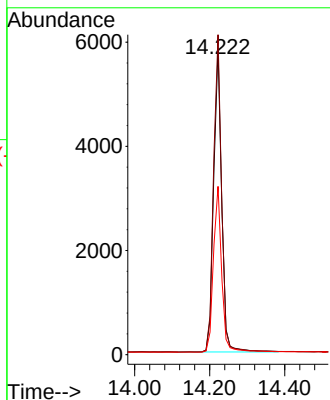
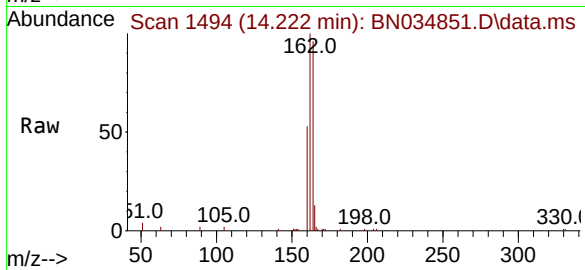




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

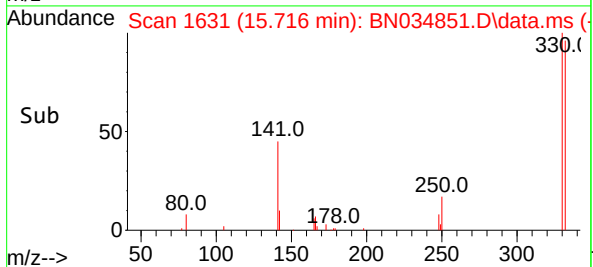
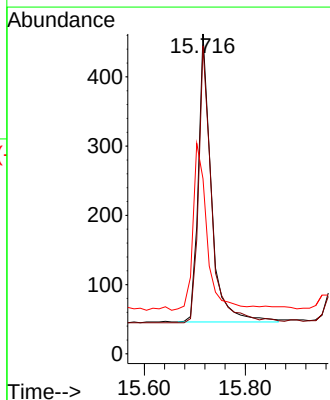
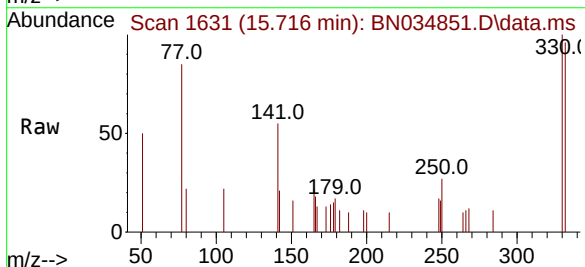
Instrument :
BNA_N
ClientSampleId :
PB164511BL

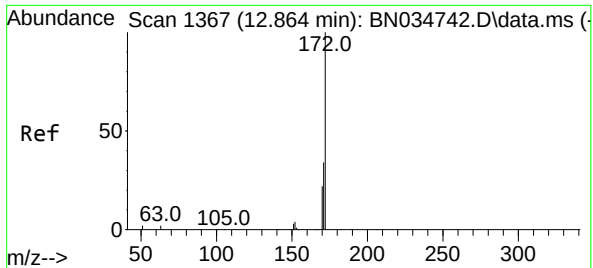
Tgt Ion:164 Resp: 8717
Ion Ratio Lower Upper
164 100
162 104.6 84.3 126.5
160 55.0 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.173 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Tgt Ion:330 Resp: 746
Ion Ratio Lower Upper
330 100
332 96.8 77.8 116.6
141 62.2 41.0 61.4#

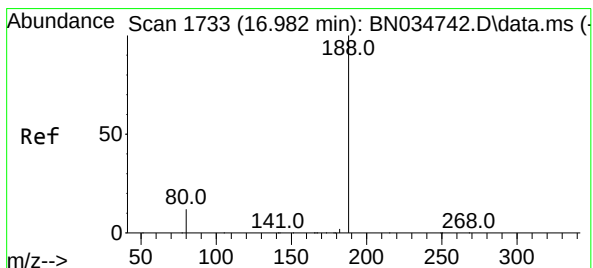
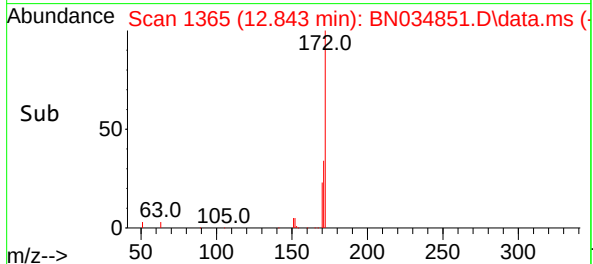
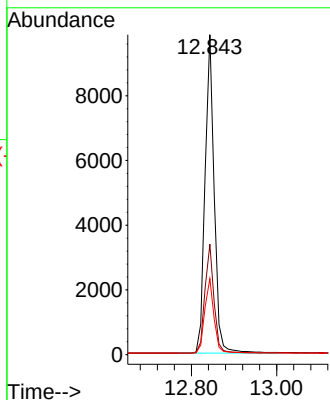
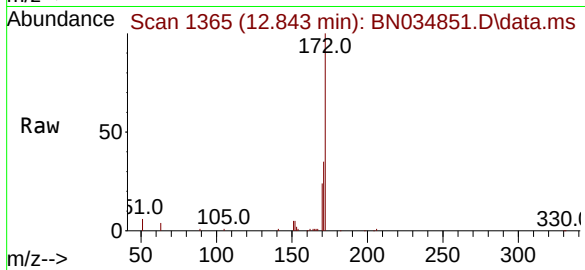




#15
2-Fluorobiphenyl
Concen: 0.429 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

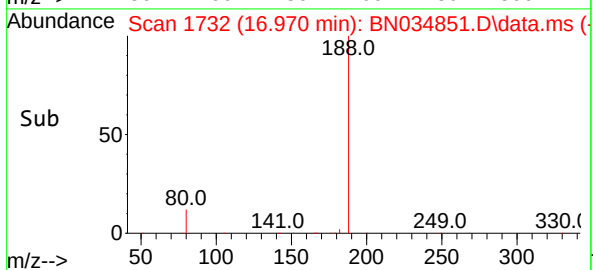
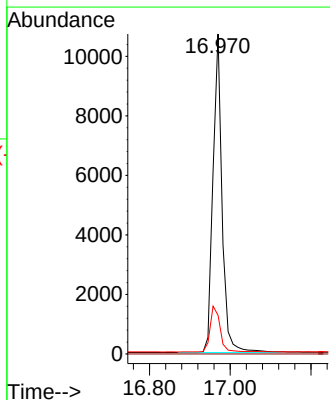
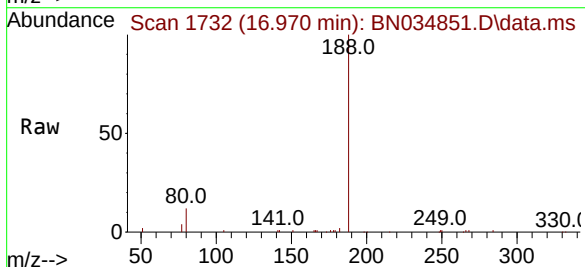
Instrument :
BNA_N
ClientSampleId :
PB164511BL

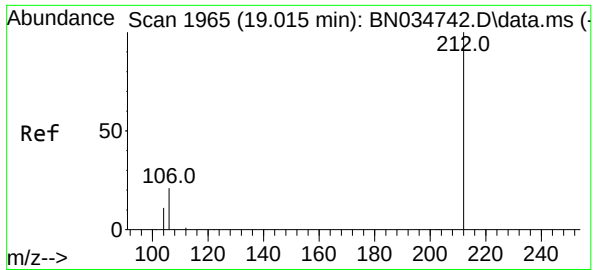
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.2	40.8
170	23.8	18.0	27.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 1732
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.1	9.8	14.6

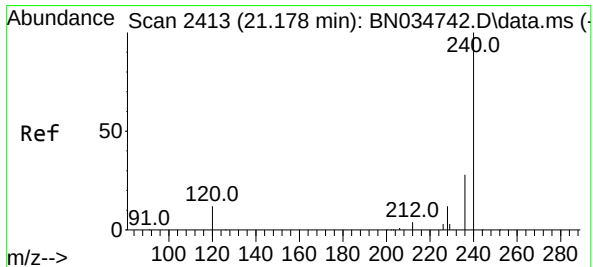
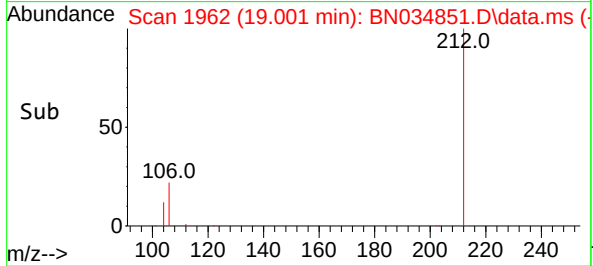
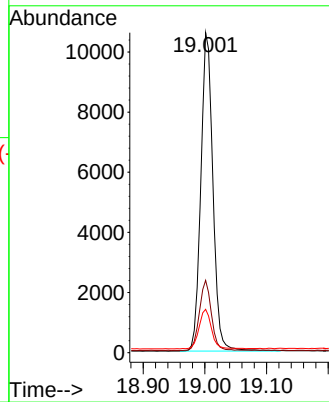
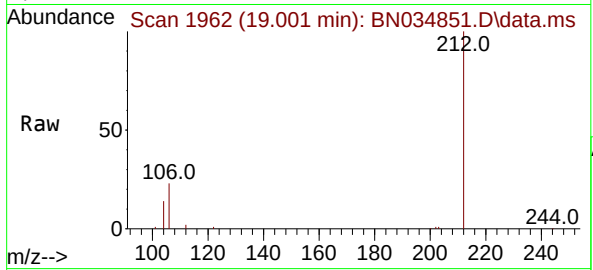




#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 19.001 min Scan# 1962
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

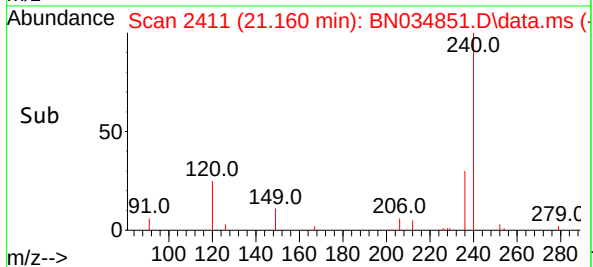
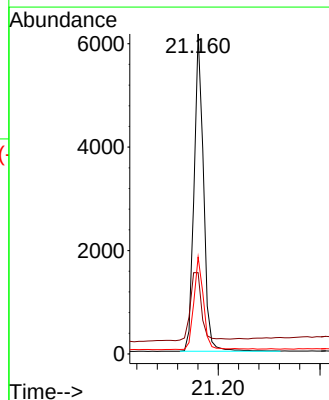
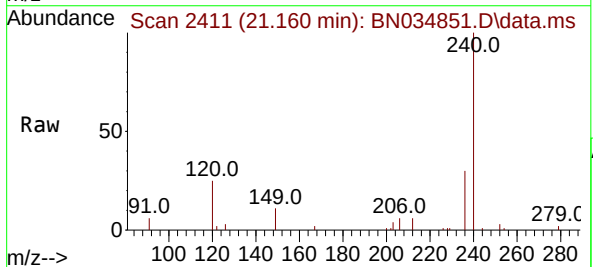
Instrument :
BNA_N
ClientSampleId :
PB164511BL

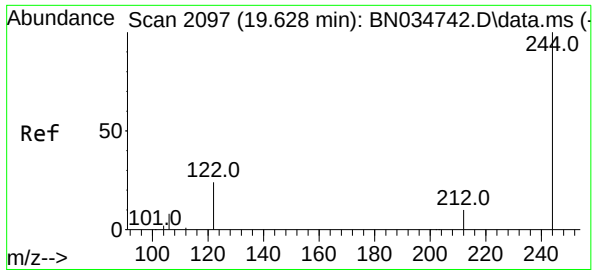
Tgt Ion	Ratio	Lower	Upper
212	100		
106	21.9	16.1	24.1
104	12.9	9.2	13.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Tgt Ion	Ratio	Lower	Upper
240	100		
120	25.4	11.5	17.3#
236	30.3	23.2	34.8

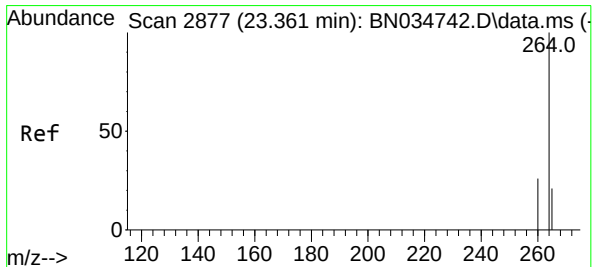
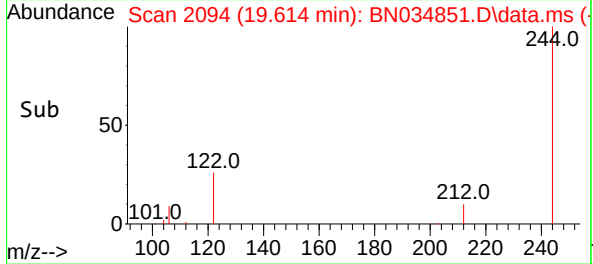
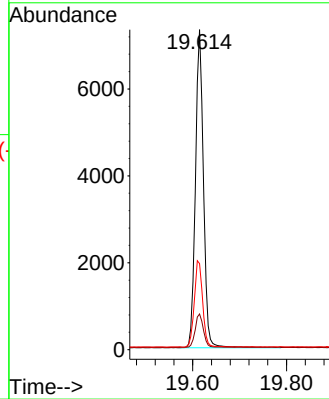
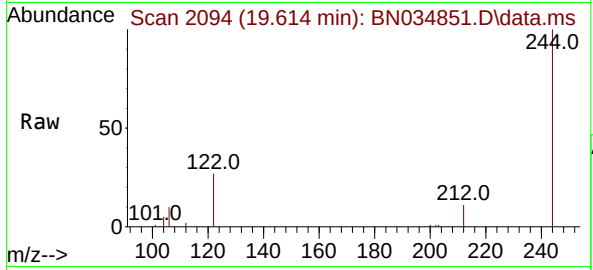




#31
Terphenyl-d14
Concen: 0.506 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

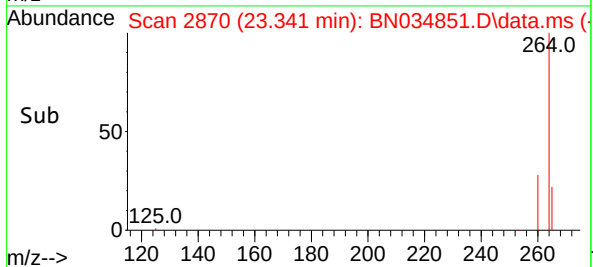
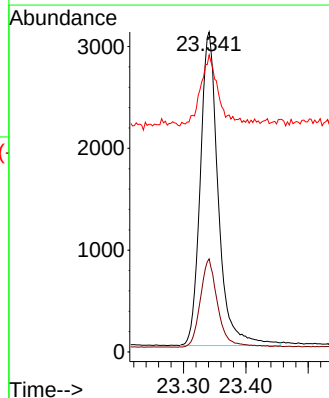
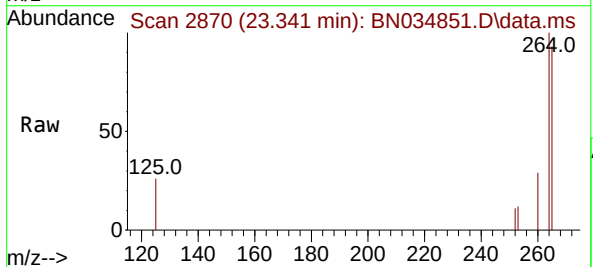
Instrument :
BNA_N
ClientSampleId :
PB164511BL

Tgt Ion:244 Resp: 8626
Ion Ratio Lower Upper
244 100
212 11.1 8.2 12.4
122 26.9 19.8 29.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 2870
Delta R.T. 0.006 min
Lab File: BN034851.D
Acq: 04 Nov 2024 22:09

Tgt Ion:264 Resp: 6177
Ion Ratio Lower Upper
264 100
260 29.1 21.5 32.3
265 92.8 47.5 71.3#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164511BS	SDG No.:	P4600
Lab Sample ID:	PB164511BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034852.D	1	10/29/24 12:50	11/04/24 22:45	PB164511

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.34		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.45		30 - 150		111%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		109%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6960	7.589				
1146-65-2	Naphthalene-d8	20900	10.351				
15067-26-2	Acenaphthene-d10	10100	14.222				
1517-22-2	Phenanthrene-d10	18700	16.97				
1719-03-5	Chrysene-d12	9520	21.16				
1520-96-3	Perylene-d12	6860	23.338				

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\BN110424\
 Data File : BN034852.D
 Acq On : 04 Nov 2024 22:45
 Operator : RC/JU
 Sample : PB164511BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164511BS

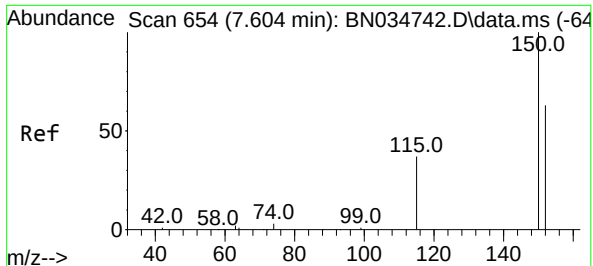
Quant Time: Nov 05 00:11:49 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6963	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	20876	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	10113	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	18739	0.400	ng	0.00
29) Chrysene-d12	21.160	240	9523	0.400	ng	# 0.00
35) Perylene-d12	23.338	264	6855	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7258	0.344	ng	0.00
5) Phenol-d6	6.773	99	9854	0.360	ng	0.00
8) Nitrobenzene-d5	8.728	82	6056	0.369	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	13435	0.445	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	941	0.188	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	16003	0.402	ng	0.00
27) Fluoranthene-d10	19.001	212	15050	0.342	ng	0.00
31) Terphenyl-d14	19.610	244	8958	0.438	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	2581	0.338	ng	# 48
3) n-Nitrosodimethylamine	3.494	42	4137	0.481	ng	85
6) bis(2-Chloroethyl)ether	7.026	93	8459	0.423	ng	94
9) Naphthalene	10.404	128	21993	0.381	ng	100
10) Hexachlorobutadiene	10.703	225	3490	0.367	ng	# 99
12) 2-Methylnaphthalene	12.026	142	13772	0.365	ng	99
16) Acenaphthylene	13.933	152	18700	0.369	ng	99
17) Acenaphthene	14.286	154	12523	0.370	ng	96
18) Fluorene	15.270	166	15243	0.362	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	589	0.344	ng	# 89
21) 4-Bromophenyl-phenylether	16.175	248	3931	0.363	ng	# 91
22) Hexachlorobenzene	16.275	284	4826	0.398	ng	94
23) Atrazine	16.448	200	2704	0.290	ng	96
24) Pentachlorophenol	16.622	266	1805	0.345	ng	99
25) Phenanthrene	17.007	178	22736	0.413	ng	100
26) Anthracene	17.094	178	20145	0.391	ng	99
28) Fluoranthene	19.034	202	21341	0.351	ng	99
30) Pyrene	19.396	202	21406	0.430	ng	100
32) Benzo(a)anthracene	21.142	228	14751	0.389	ng	99
33) Chrysene	21.196	228	15862	0.427	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	7773	0.245	ng	97
36) Indeno(1,2,3-cd)pyrene	25.504	276	11610	0.460	ng	94
37) Benzo(b)fluoranthene	22.689	252	12624	0.457	ng	# 94
38) Benzo(k)fluoranthene	22.733	252	12571	0.467	ng	96
39) Benzo(a)pyrene	23.244	252	10085	0.443	ng	# 92
40) Dibenzo(a,h)anthracene	25.525	278	8853	0.450	ng	99
41) Benzo(g,h,i)perylene	26.162	276	9487	0.446	ng	95

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

Instrument :
BNA_N
ClientSampleId :
PB164511BS

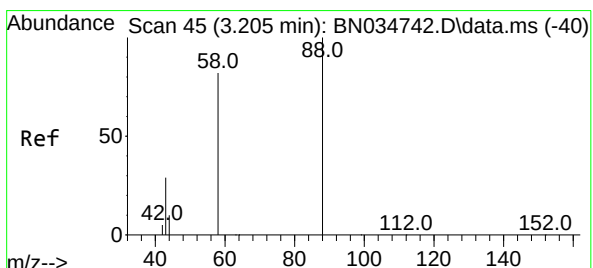
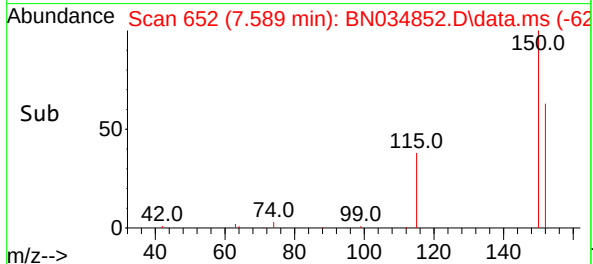
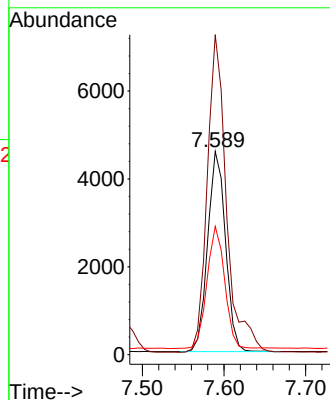
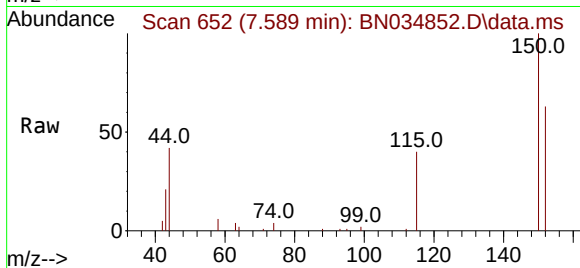
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- 16
- 17
- 18



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

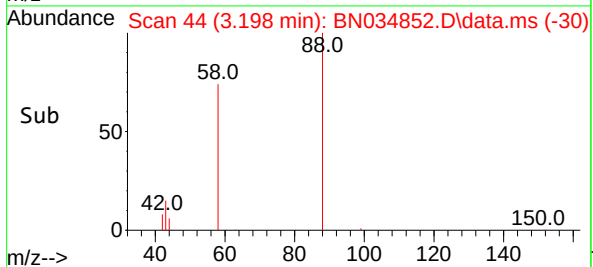
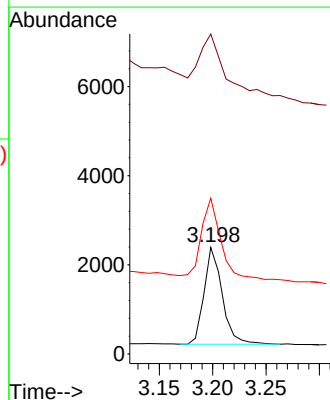
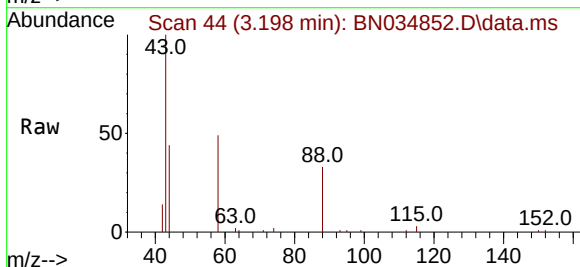
Instrument :
BNA_N
ClientSampleId :
PB164511BS

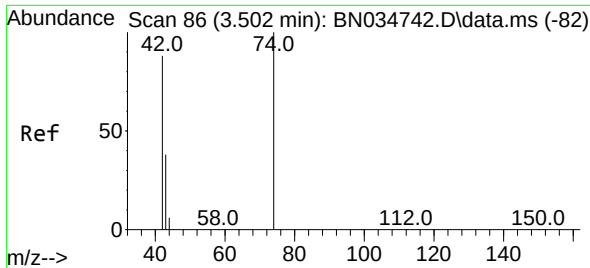
Tgt Ion:152 Resp: 6963
Ion Ratio Lower Upper
152 100
150 157.5 124.9 187.3
115 63.1 50.2 75.2



#2
1,4-Dioxane
Concen: 0.338 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion: 88 Resp: 2581
Ion Ratio Lower Upper
88 100
43 97.7 26.7 40.1#
58 95.4 59.3 88.9#

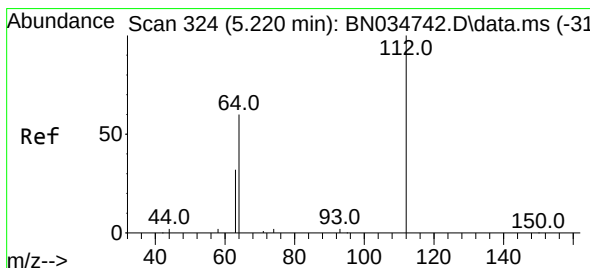
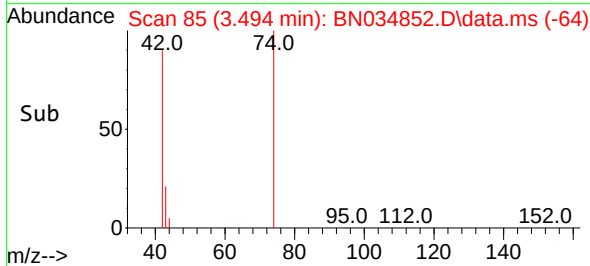
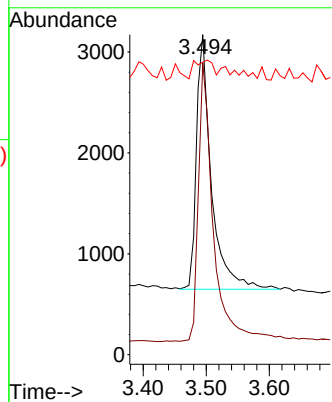
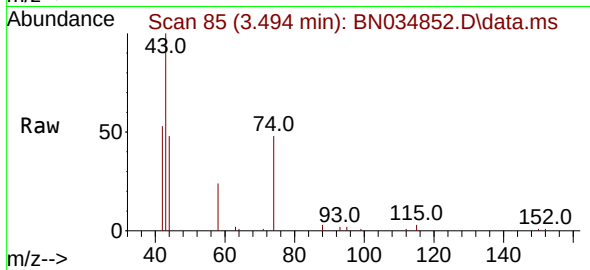




#3
n-Nitrosodimethylamine
Concen: 0.481 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

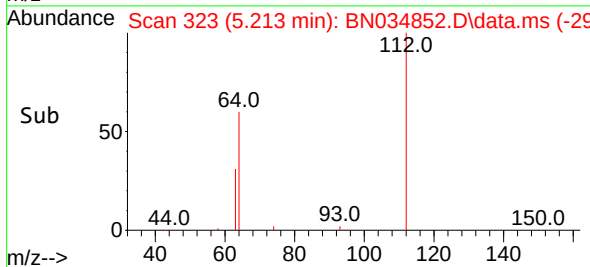
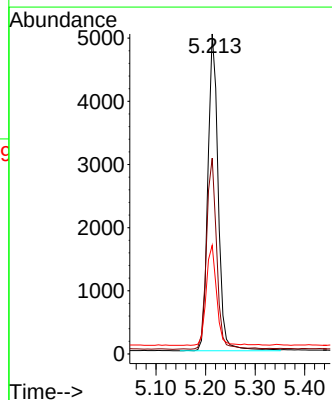
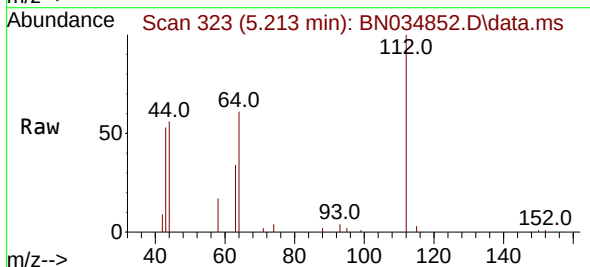
Instrument :
BNA_N
ClientSampleId :
PB164511BS

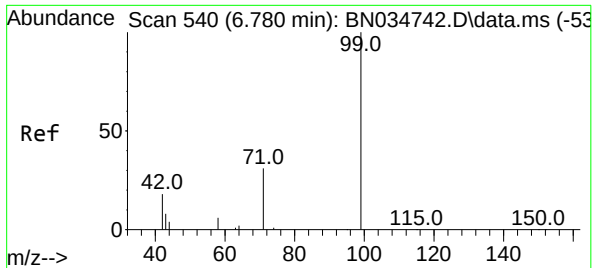
Tgt Ion: 42 Resp: 4137
Ion Ratio Lower Upper
42 100
74 110.0 103.1 154.7
44 9.0 6.7 10.1



#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion: 112 Resp: 7258
Ion Ratio Lower Upper
112 100
64 59.5 44.9 67.3
63 31.5 23.5 35.3

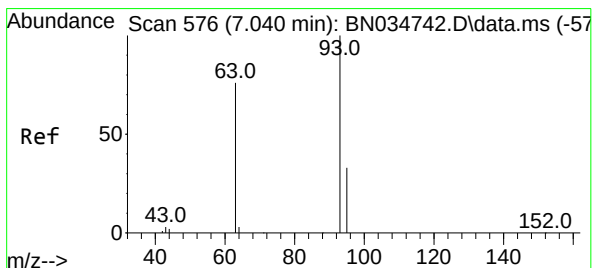
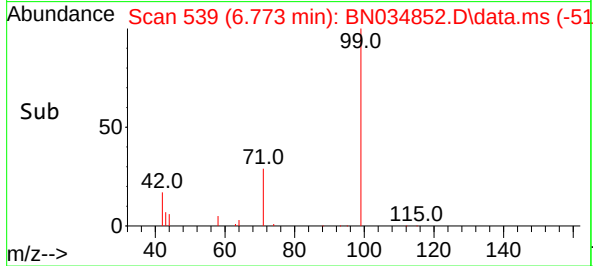
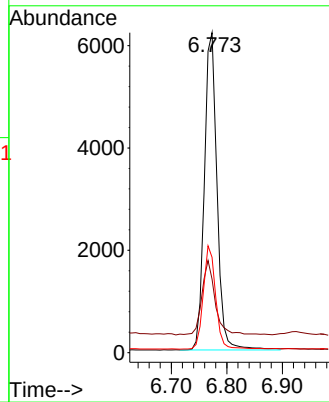
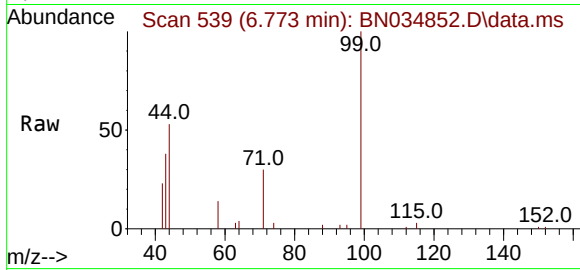




#5
Phenol-d6
Concen: 0.360 ng
RT: 6.773 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

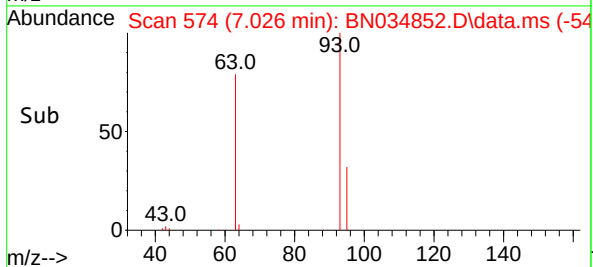
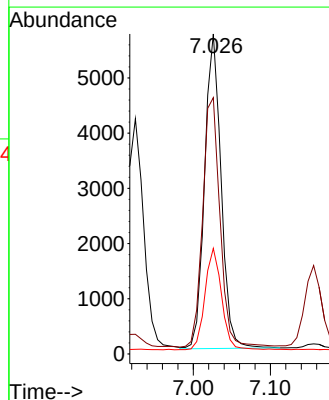
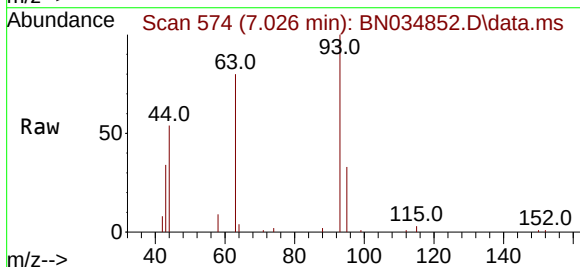
Instrument :
BNA_N
ClientSampleId :
PB164511BS

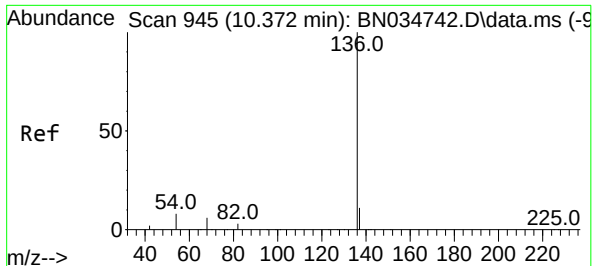
Tgt Ion: 99 Resp: 9854
Ion Ratio Lower Upper
99 100
42 24.6 15.9 23.9#
71 31.9 24.3 36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.423 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion: 93 Resp: 8459
Ion Ratio Lower Upper
93 100
63 83.4 61.2 91.8
95 32.6 25.8 38.8

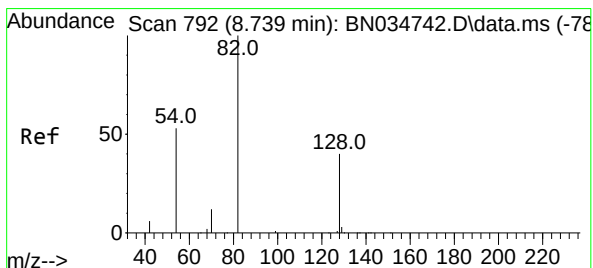
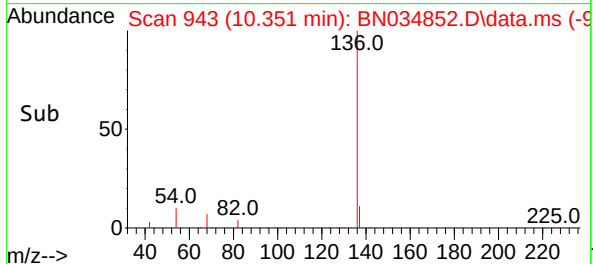
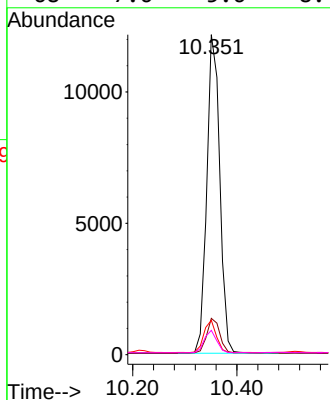
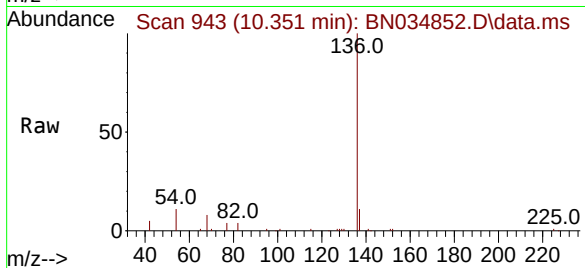




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

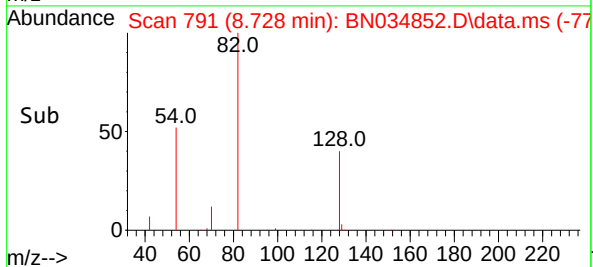
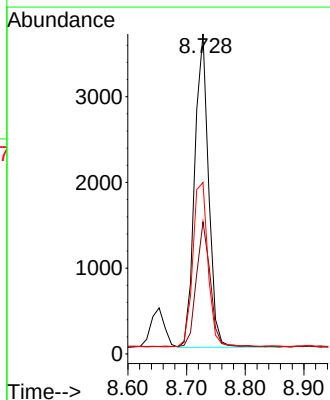
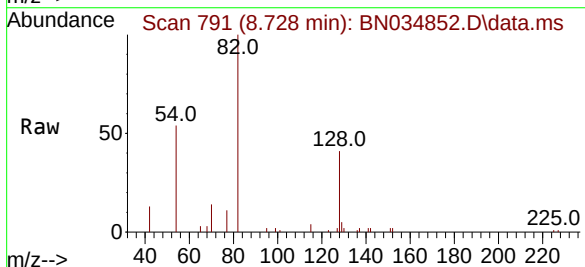
Instrument :
BNA_N
ClientSampleId :
PB164511BS

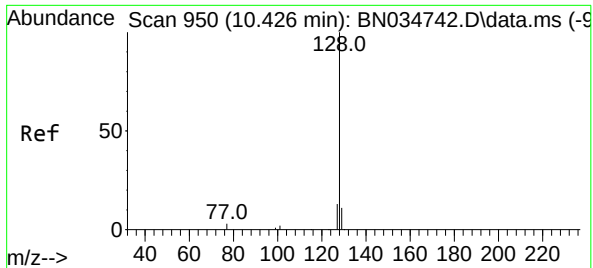
Tgt Ion:	136	Resp:	20876
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	10.8	7.0	10.4
68	7.6	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:	82	Resp:	6056
Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.7	50.5
54	53.6	44.4	66.6

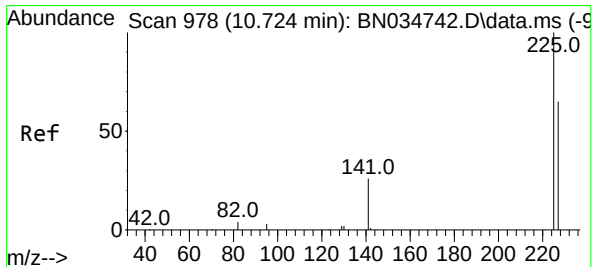
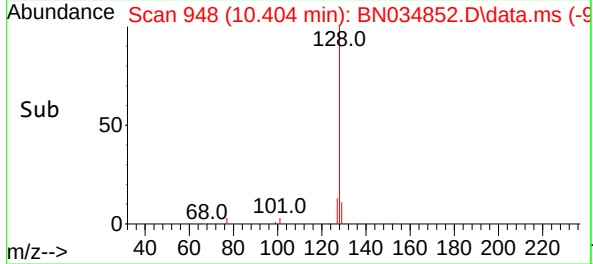
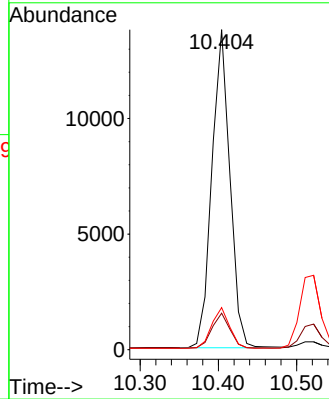
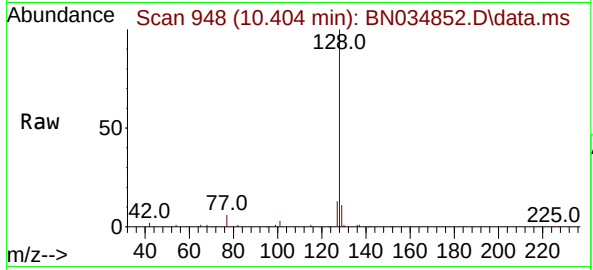




#9
Naphthalene
Concen: 0.381 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

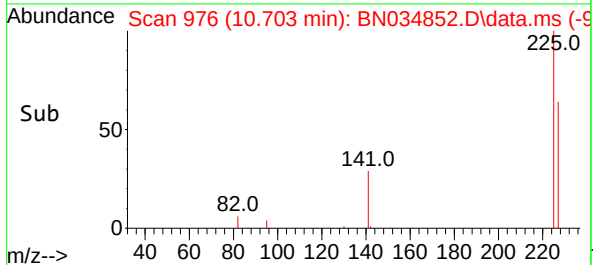
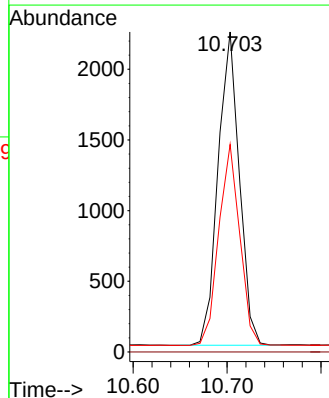
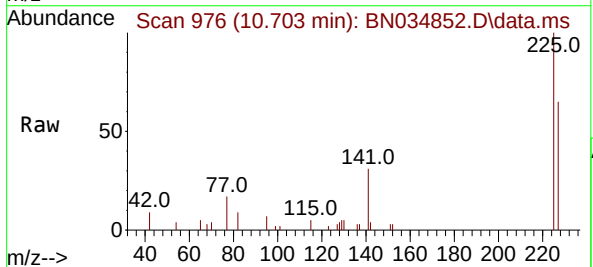
Instrument :
BNA_N
ClientSampleId :
PB164511BS

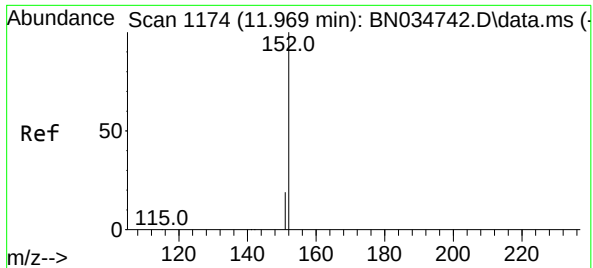
Tgt Ion:128 Resp: 21993
Ion Ratio Lower Upper
128 100
129 11.4 9.4 14.0
127 13.2 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.367 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:225 Resp: 3490
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2

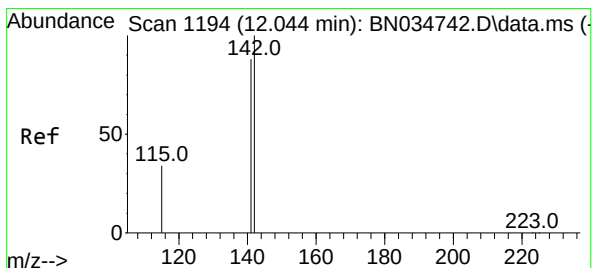
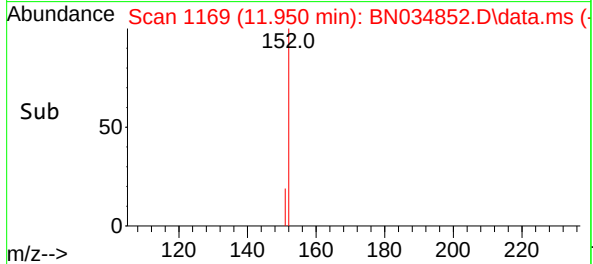
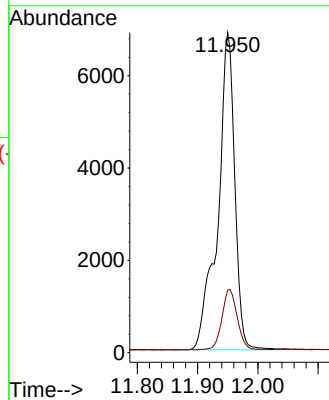
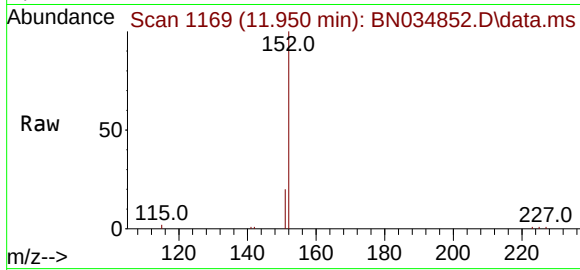




#11
2-Methylnaphthalene-d10
Concen: 0.445 ng
RT: 11.950 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

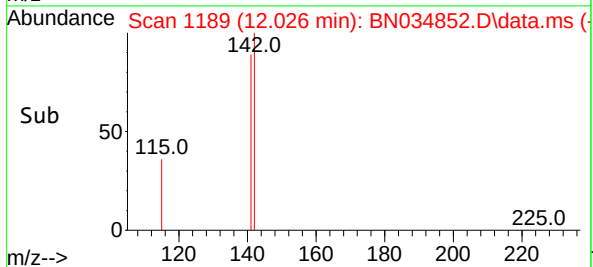
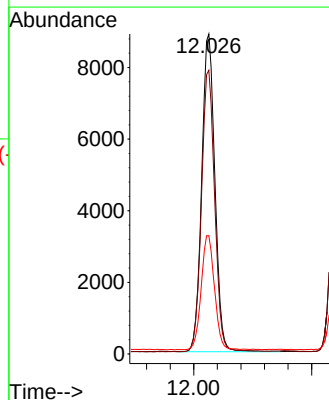
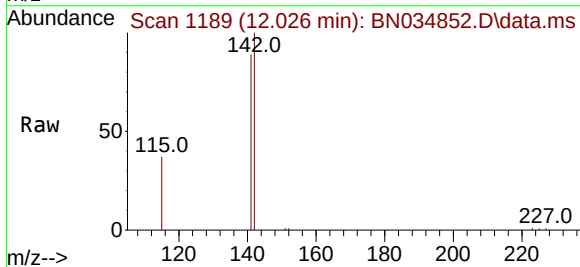
Instrument :
BNA_N
ClientSampleId :
PB164511BS

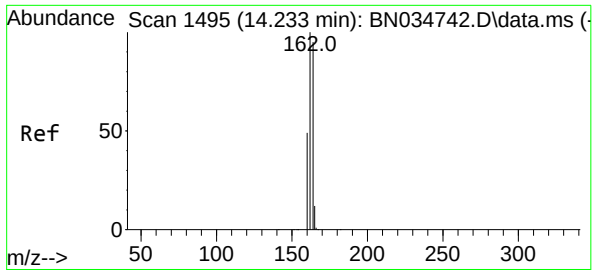
Tgt Ion:152 Resp: 13435
Ion Ratio Lower Upper
152 100
151 17.2 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.365 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:142 Resp: 13772
Ion Ratio Lower Upper
142 100
141 88.7 70.6 106.0
115 37.0 28.6 42.8

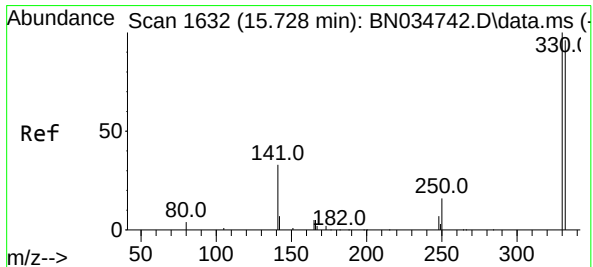
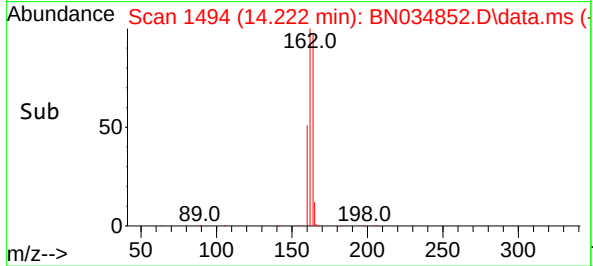
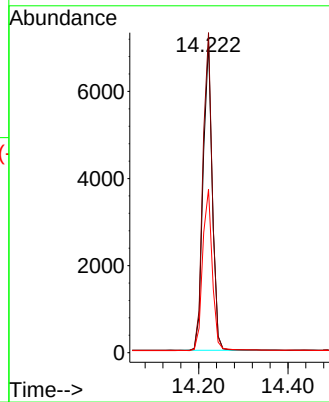
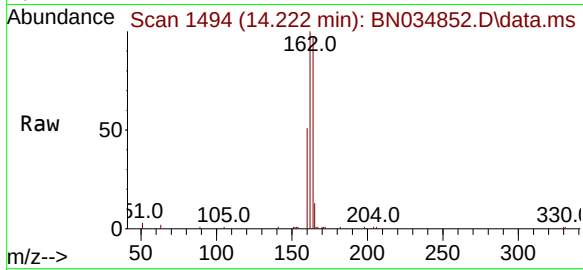




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

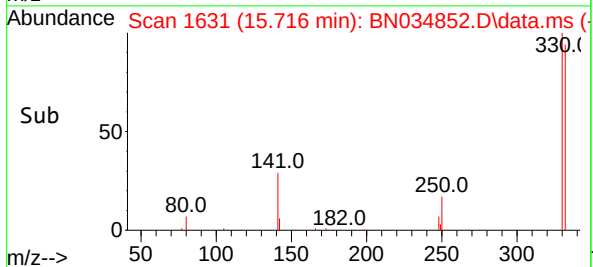
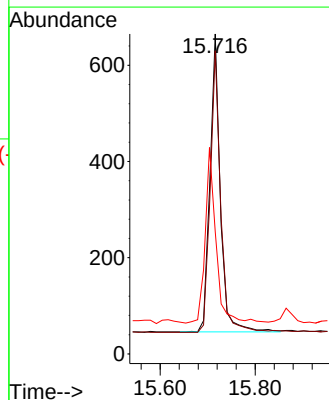
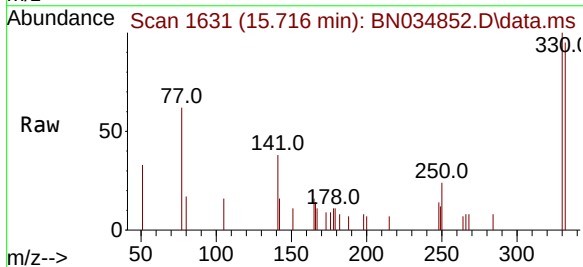
Instrument :
BNA_N
ClientSampleId :
PB164511BS

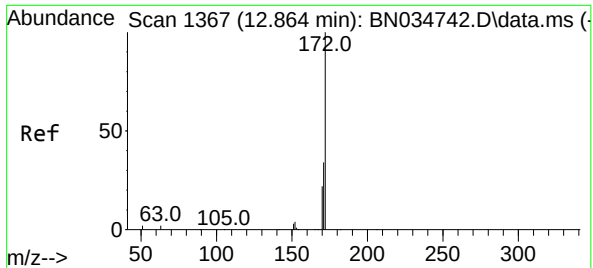
Tgt Ion:164 Resp: 10113
Ion Ratio Lower Upper
164 100
162 102.9 84.3 126.5
160 52.5 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.188 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:330 Resp: 941
Ion Ratio Lower Upper
330 100
332 95.5 77.8 116.6
141 61.5 41.0 61.4#

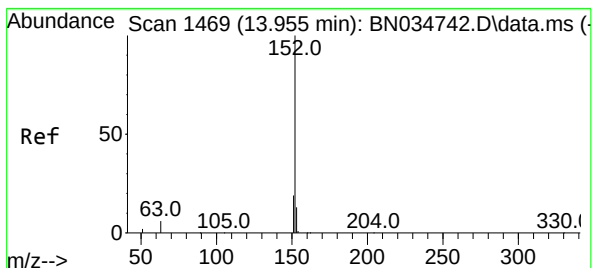
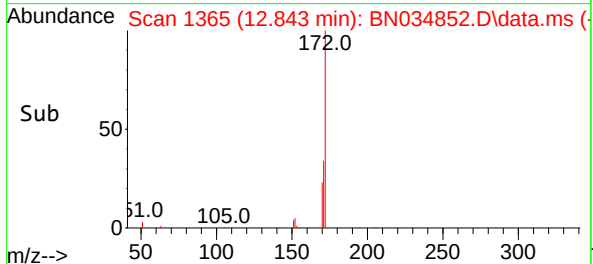
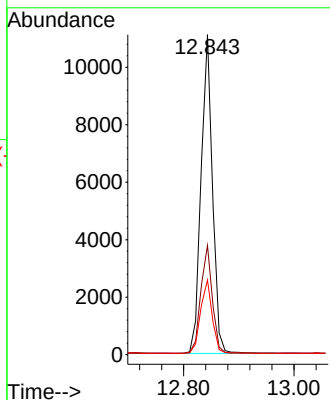
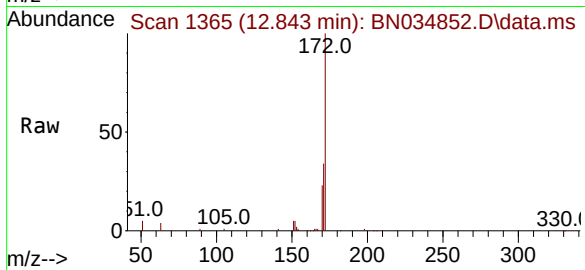




#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

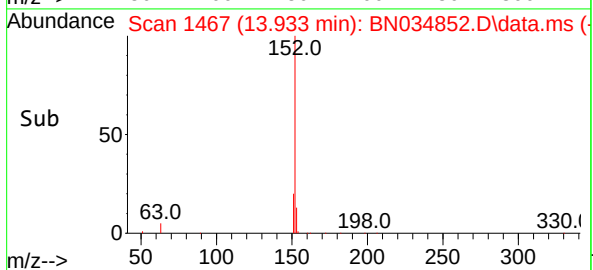
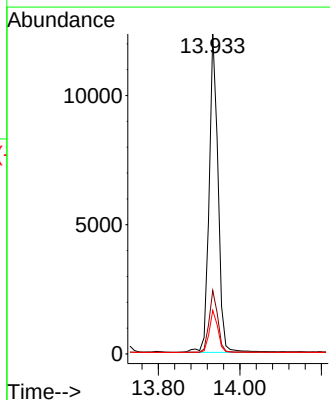
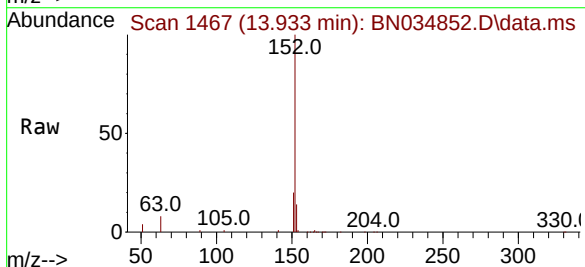
Instrument :
BNA_N
ClientSampleId :
PB164511BS

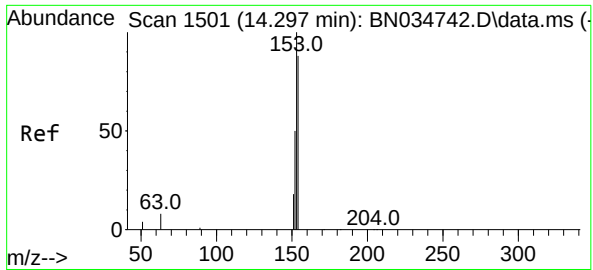
Tgt Ion:	172	Resp:	16003
Ion	Ratio	Lower	Upper
172	100		
171	34.2	27.2	40.8
170	23.3	18.0	27.0



#16
Acenaphthylene
Concen: 0.369 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:	152	Resp:	18700
Ion	Ratio	Lower	Upper
152	100		
151	18.9	15.4	23.2
153	13.0	10.2	15.4

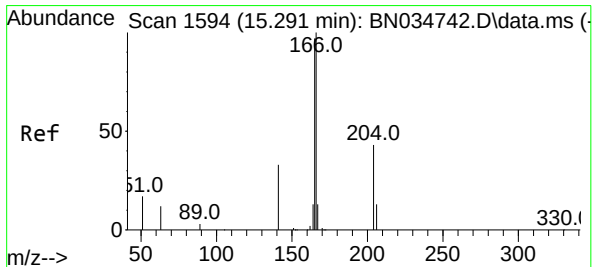
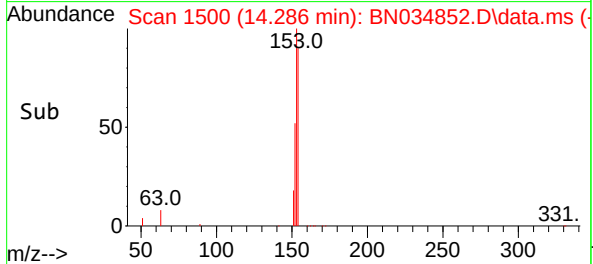
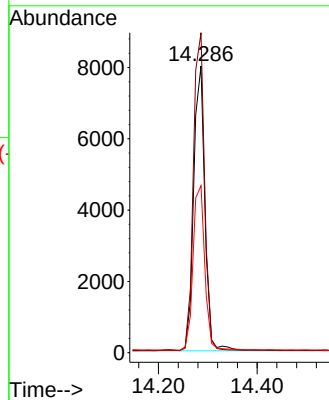
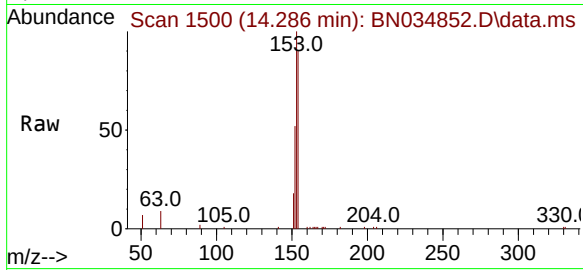




#17
Acenaphthene
Concen: 0.370 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

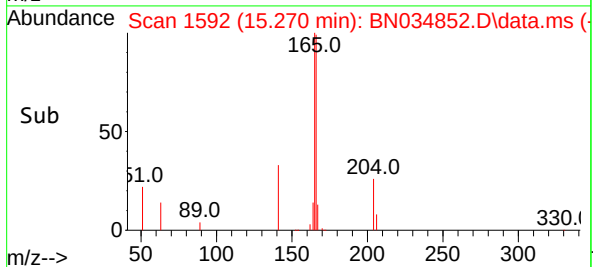
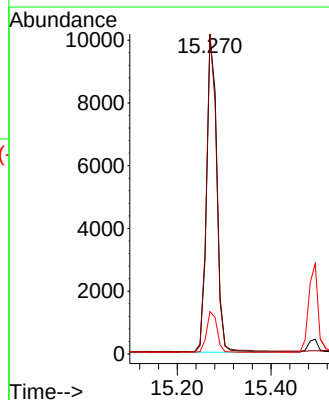
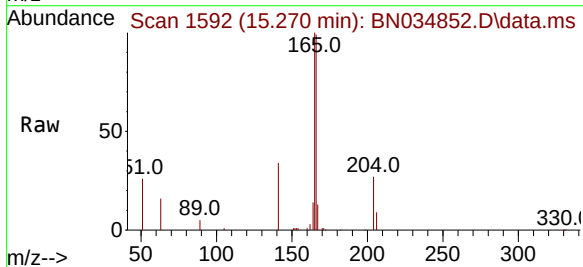
Instrument :
BNA_N
ClientSampleId :
PB164511BS

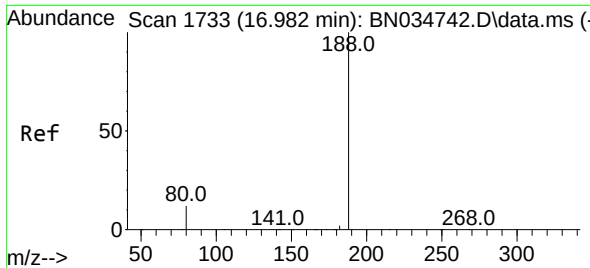
Tgt Ion:154 Resp: 12523
Ion Ratio Lower Upper
154 100
153 112.7 87.8 131.6
152 60.7 44.6 67.0



#18
Fluorene
Concen: 0.362 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:166 Resp: 15243
Ion Ratio Lower Upper
166 100
165 99.6 78.5 117.7
167 13.2 10.8 16.2

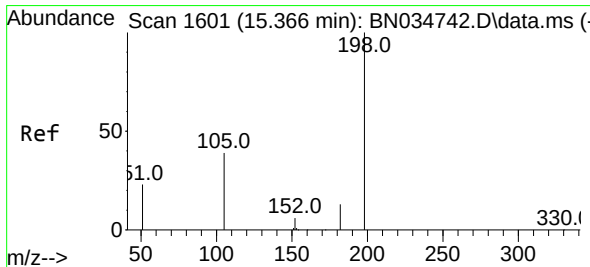
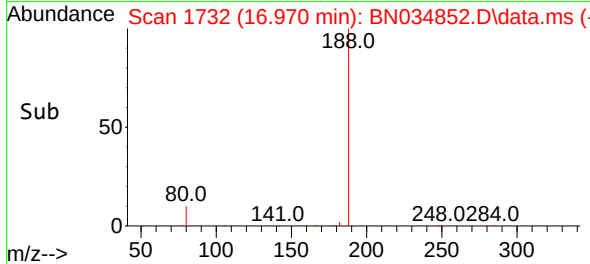
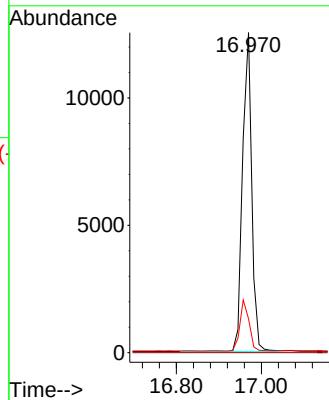
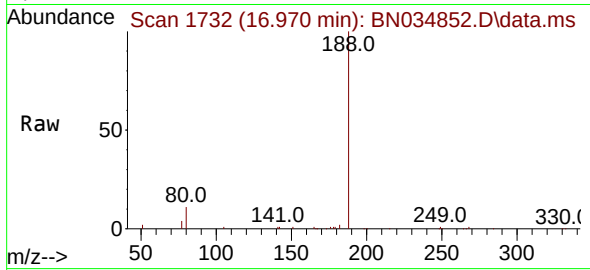




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

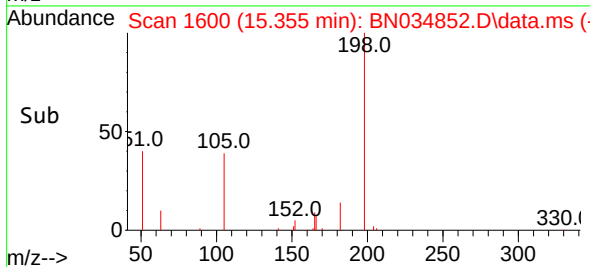
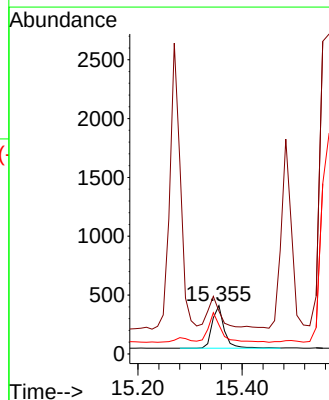
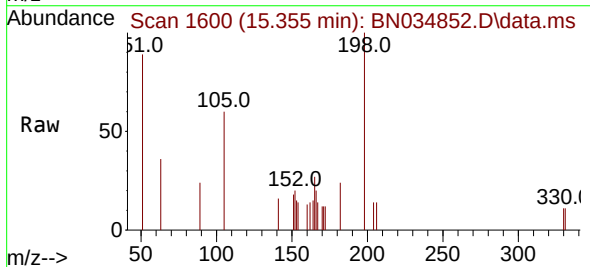
Instrument :
BNA_N
ClientSampleId :
PB164511BS

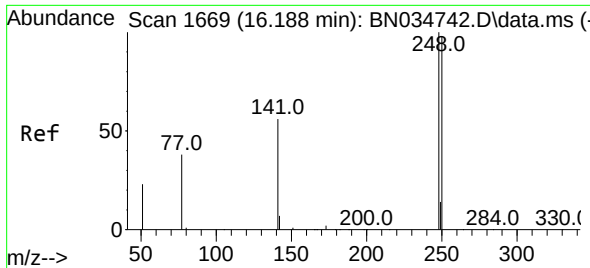
Tgt Ion:188 Resp: 18739
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.6 9.8 14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:198 Resp: 589
Ion Ratio Lower Upper
198 100
51 88.8 58.0 87.0#
105 60.2 49.1 73.7

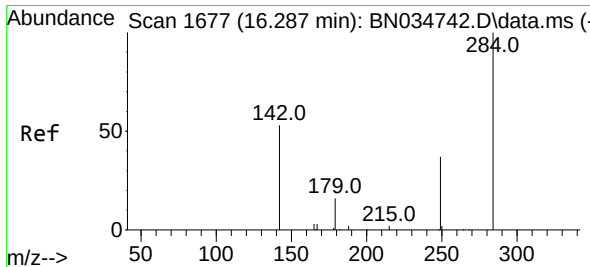
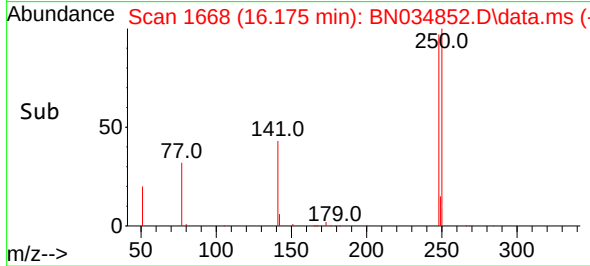
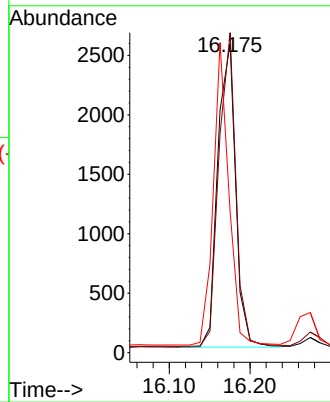
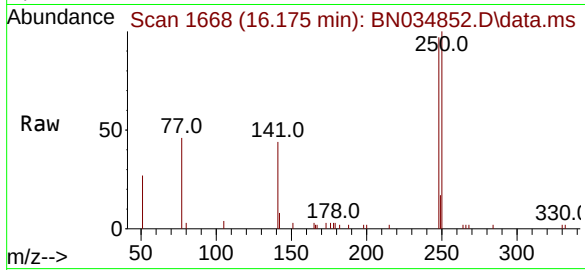




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

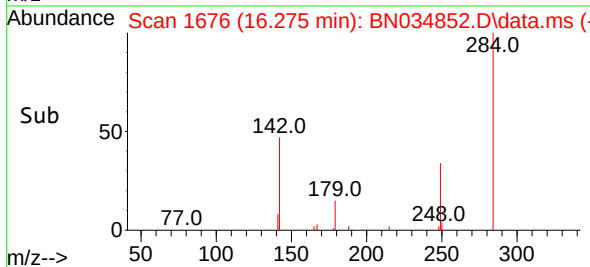
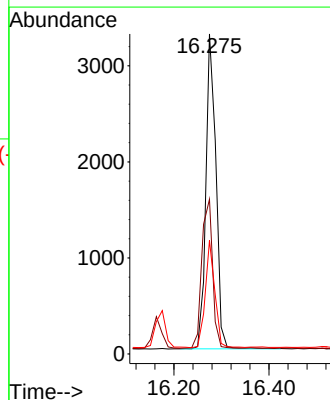
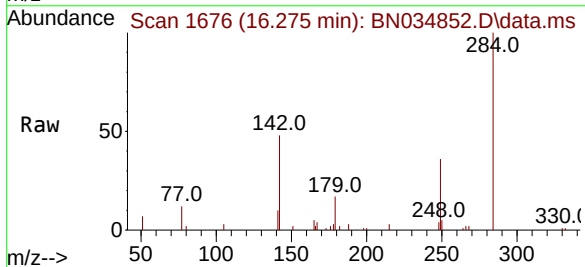
Instrument :
BNA_N
ClientSampleId :
PB164511BS

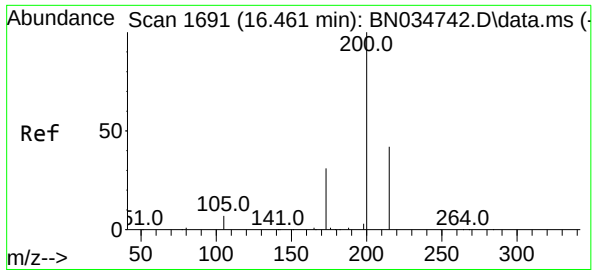
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.4	78.7	118.1
141	45.5	46.4	69.6#



#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion	Ratio	Lower	Upper
284	100		
142	51.1	35.4	53.0
249	32.5	25.7	38.5

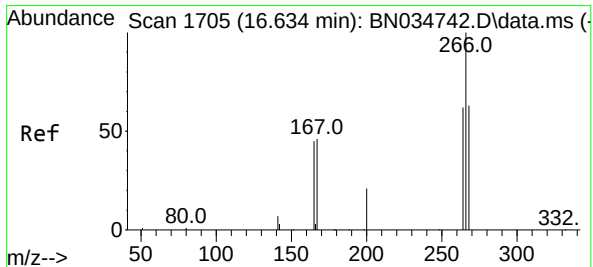
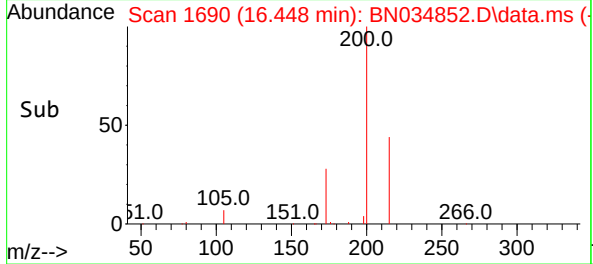
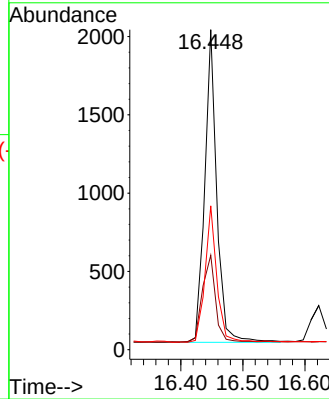
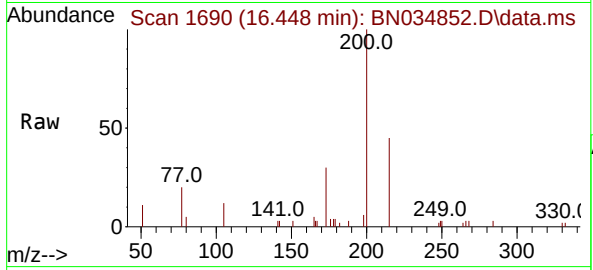




#23
Atrazine
Concen: 0.290 ng
RT: 16.448 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

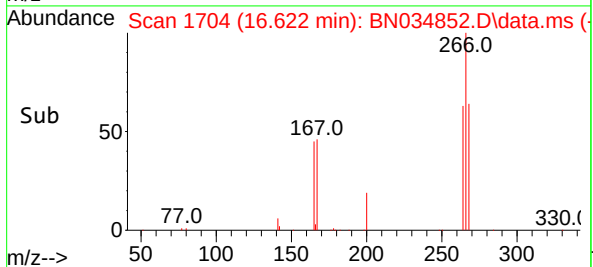
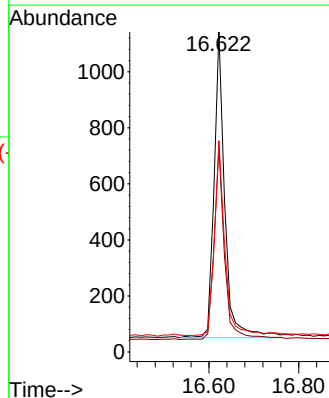
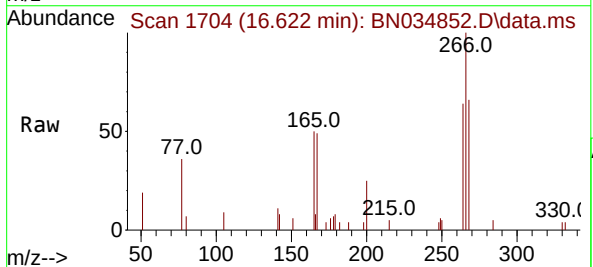
Instrument :
BNA_N
ClientSampleId :
PB164511BS

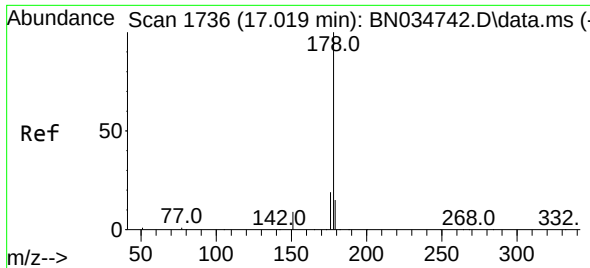
Tgt Ion:	200	Resp:	2704
Ion Ratio	Lower	Upper	
200	100		
173	29.5	25.8	38.6
215	45.0	34.2	51.4



#24
Pentachlorophenol
Concen: 0.345 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:	266	Resp:	1805
Ion Ratio	Lower	Upper	
266	100		
264	60.4	48.7	73.1
268	61.4	50.2	75.4

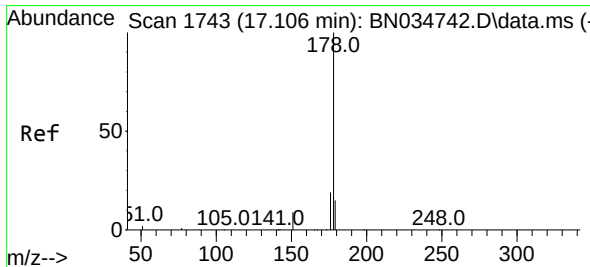
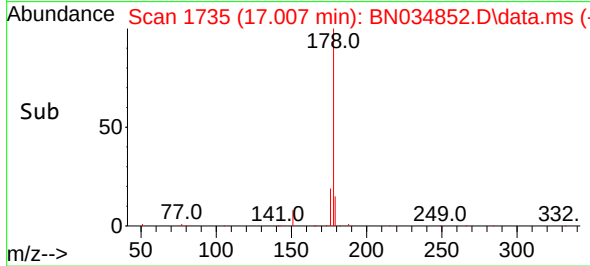
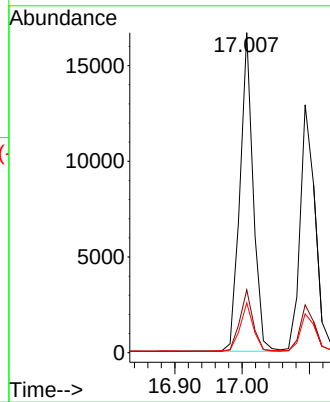
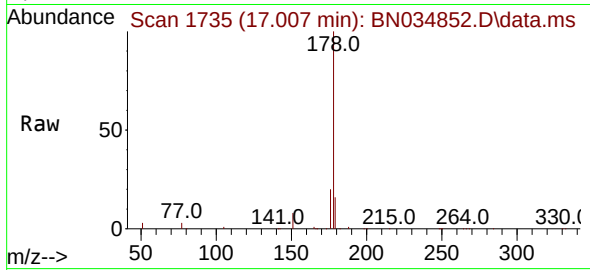




#25
Phenanthrene
Concen: 0.413 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

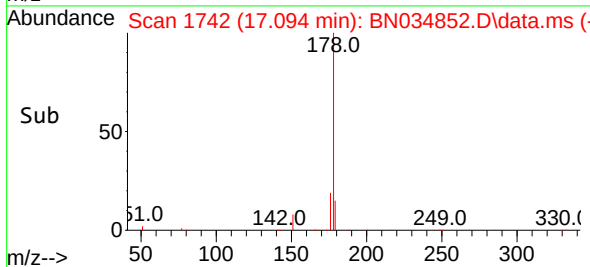
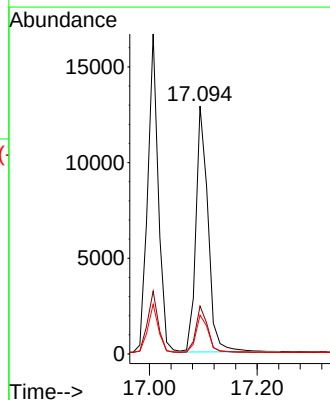
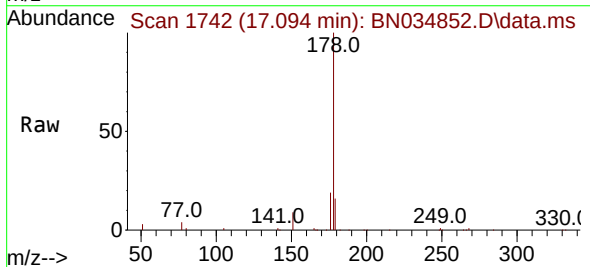
Instrument :
BNA_N
ClientSampleId :
PB164511BS

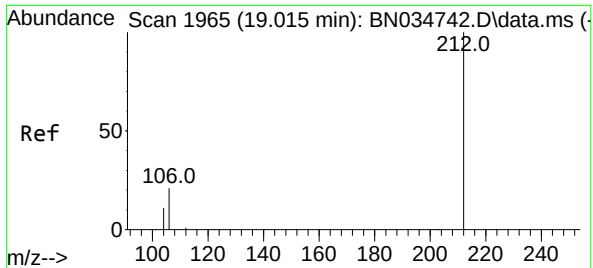
Tgt Ion:178 Resp: 22736
Ion Ratio Lower Upper
178 100
176 19.3 15.4 23.0
179 15.2 12.2 18.4



#26
Anthracene
Concen: 0.391 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:178 Resp: 20145
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.5 12.2 18.2

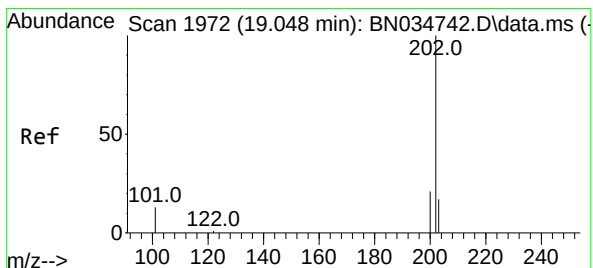
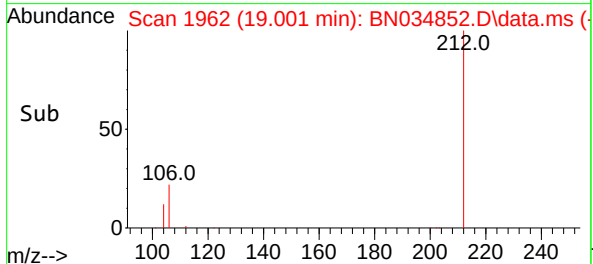
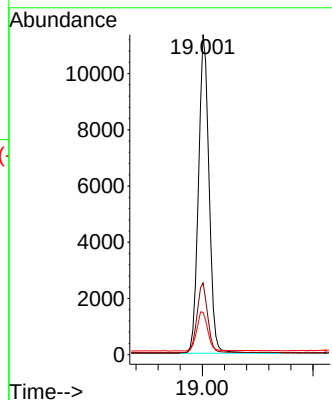
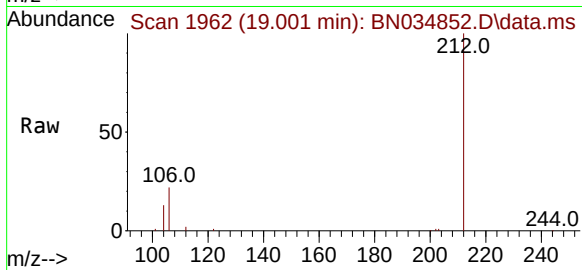




#27
Fluoranthene-d10
Concen: 0.342 ng
RT: 19.001 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

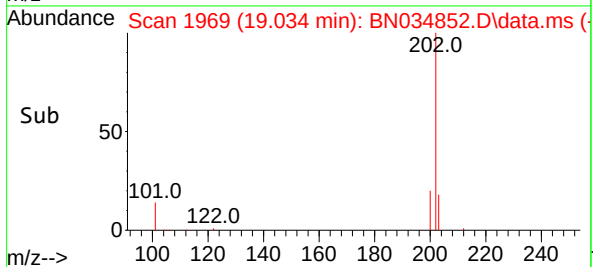
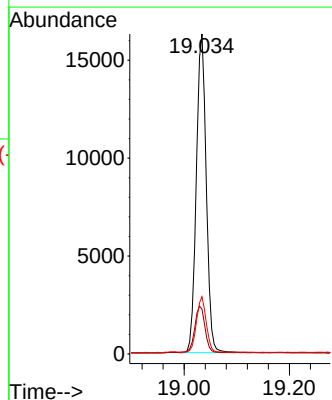
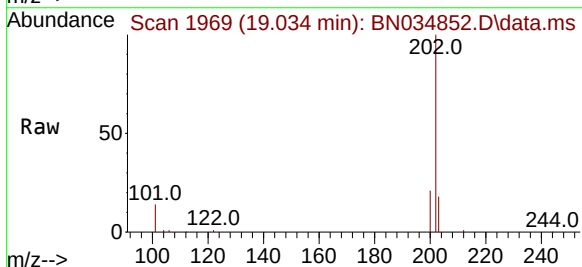
Instrument :
BNA_N
ClientSampleId :
PB164511BS

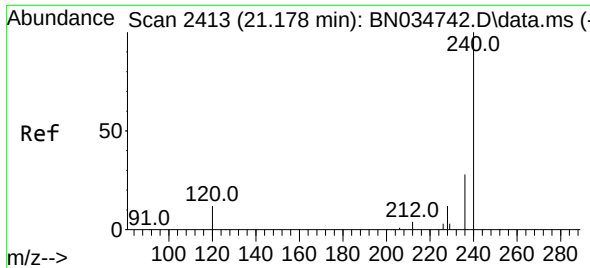
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.2	16.1	24.1
104	12.6	9.2	13.8



#28
Fluoranthene
Concen: 0.351 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.2	11.4	17.0
203	17.0	13.7	20.5

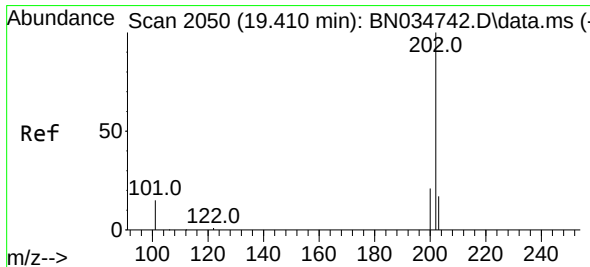
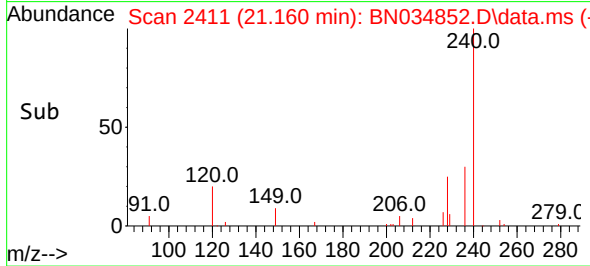
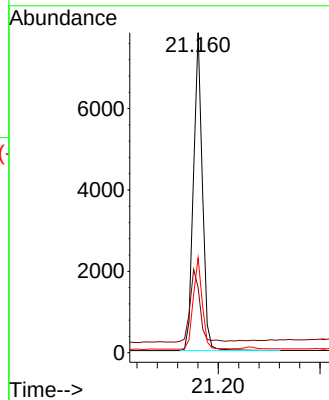
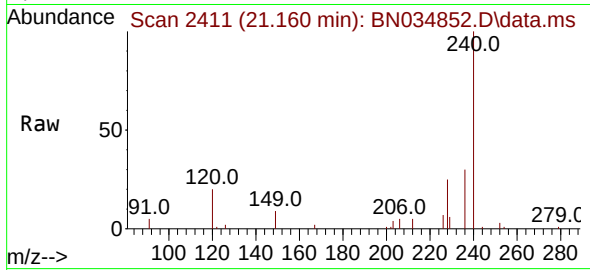




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

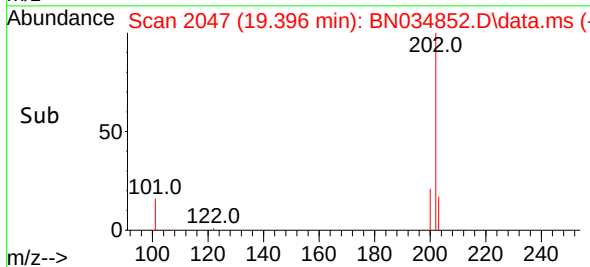
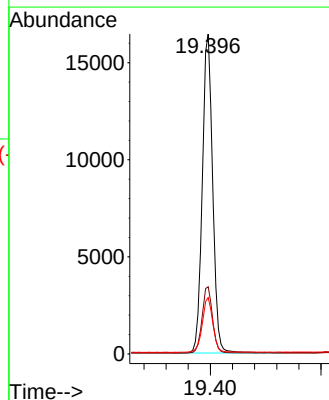
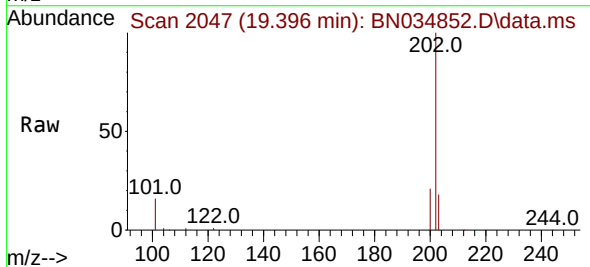
Instrument :
BNA_N
ClientSampleId :
PB164511BS

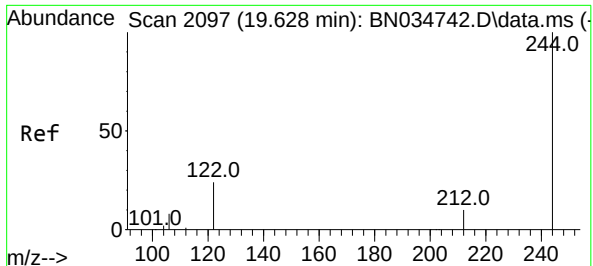
Tgt Ion:240 Resp: 9523
Ion Ratio Lower Upper
240 100
120 20.3 11.5 17.3#
236 29.7 23.2 34.8



#30
Pyrene
Concen: 0.430 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion:202 Resp: 21406
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.6 14.2 21.2

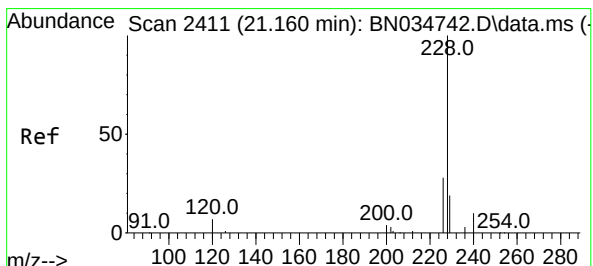
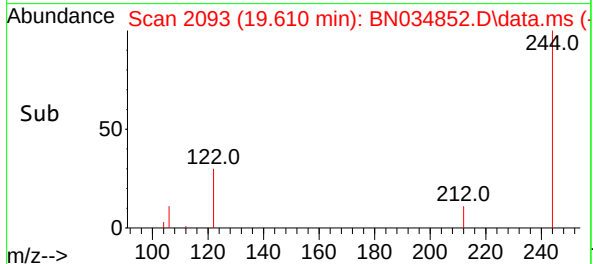
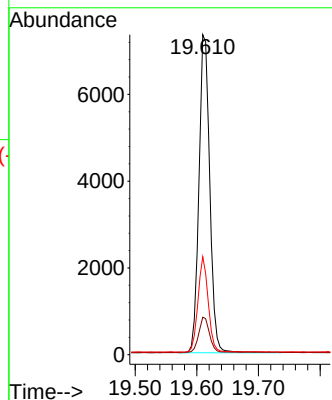
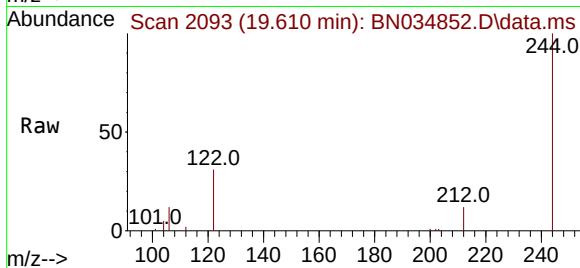




#31
Terphenyl-d14
Concen: 0.438 ng
RT: 19.610 min Scan# 2093
Delta R.T. -0.005 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

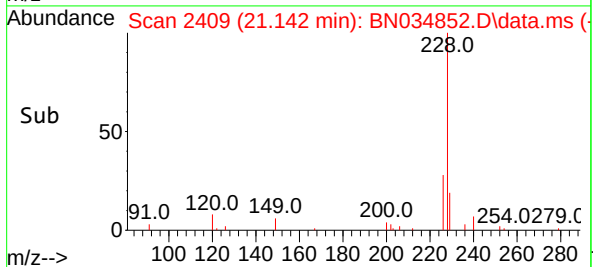
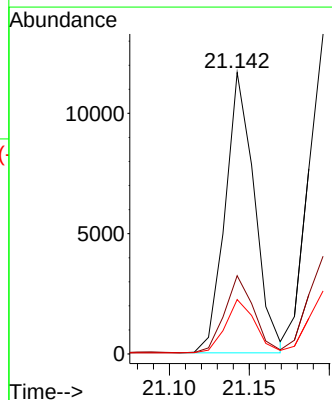
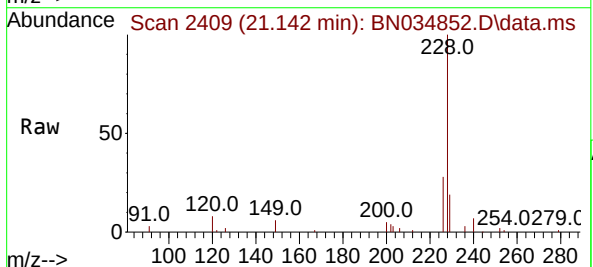
Instrument :
BNA_N
ClientSampleId :
PB164511BS

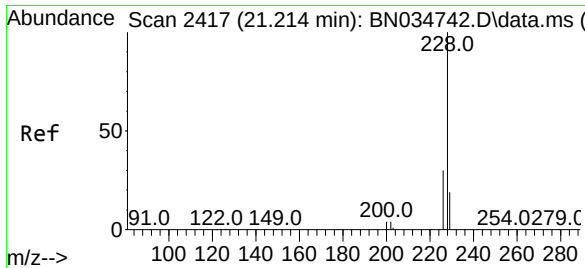
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.7	8.2	12.4
122	30.6	19.8	29.6



#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	19.3	15.7	23.5





#33

Chrysene

Concen: 0.427 ng

RT: 21.196 min Scan# 2415

Delta R.T. -0.000 min

Lab File: BN034852.D

Acq: 04 Nov 2024 22:45

Instrument :

BNA_N

ClientSampleId :

PB164511BS

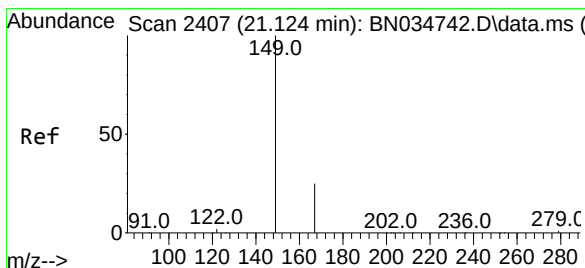
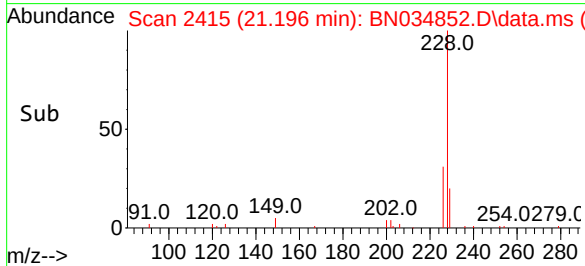
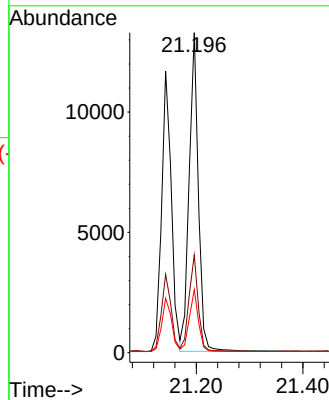
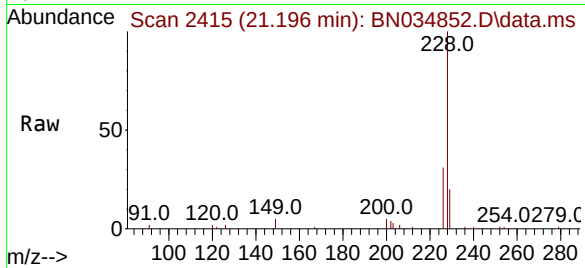
Tgt Ion:228 Resp: 15862

Ion Ratio Lower Upper

228 100

226 30.6 24.4 36.6

229 19.7 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.245 ng

RT: 21.107 min Scan# 2405

Delta R.T. -0.000 min

Lab File: BN034852.D

Acq: 04 Nov 2024 22:45

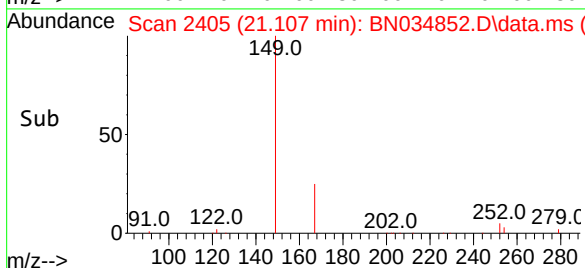
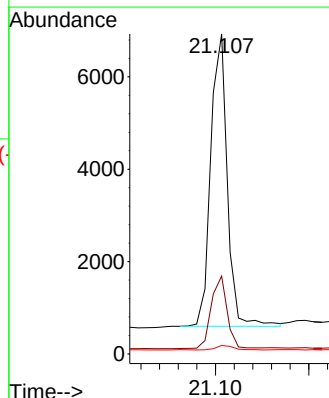
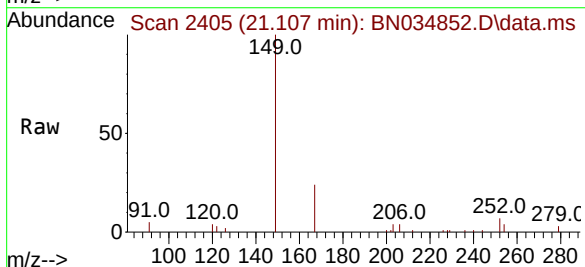
Tgt Ion:149 Resp: 7773

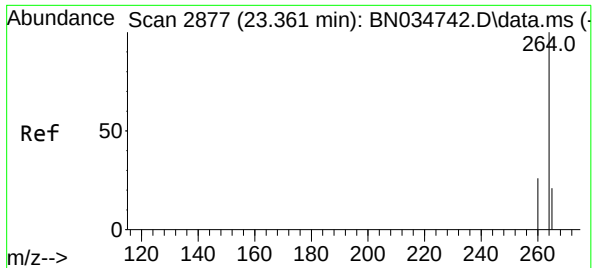
Ion Ratio Lower Upper

149 100

167 23.9 20.6 30.8

279 1.6 1.5 2.3

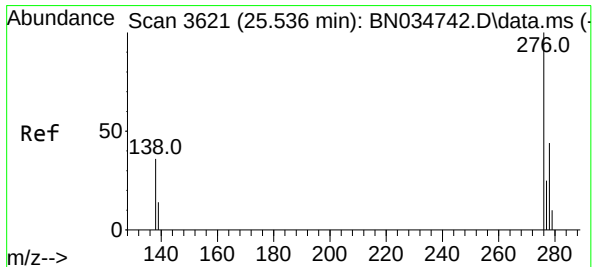
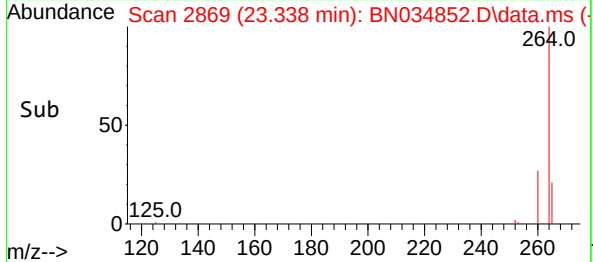
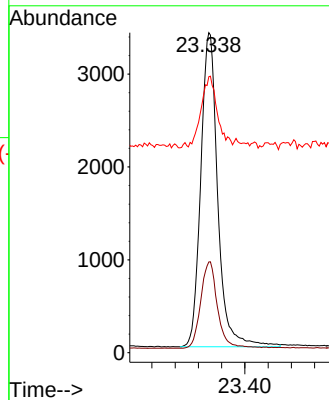
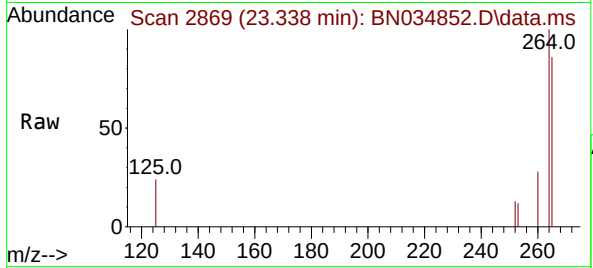




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.338 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

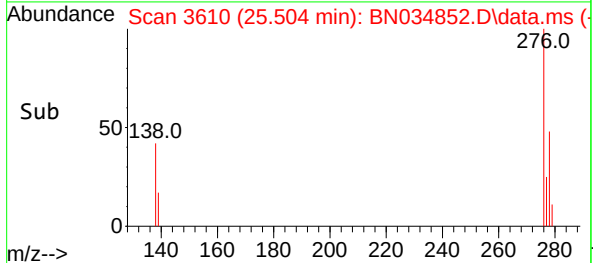
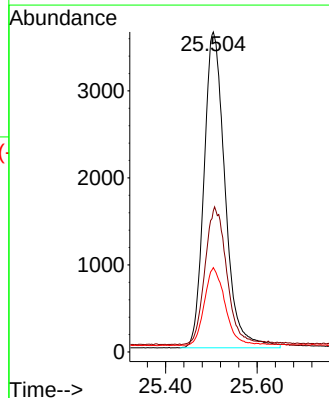
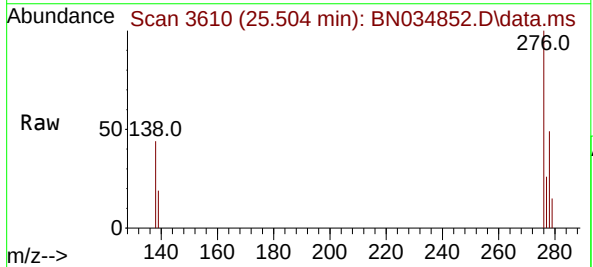
Instrument :
BNA_N
ClientSampleId :
PB164511BS

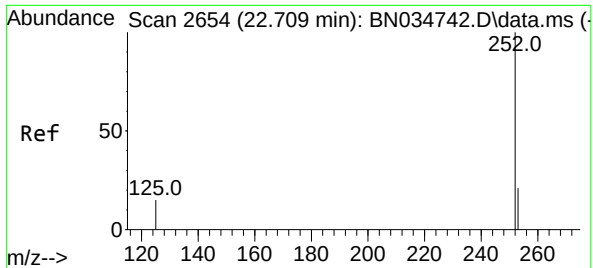
Tgt Ion:264 Resp: 6855
Ion Ratio Lower Upper
264 100
260 28.4 21.5 32.3
265 86.2 47.5 71.3#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.460 ng
RT: 25.504 min Scan# 3610
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

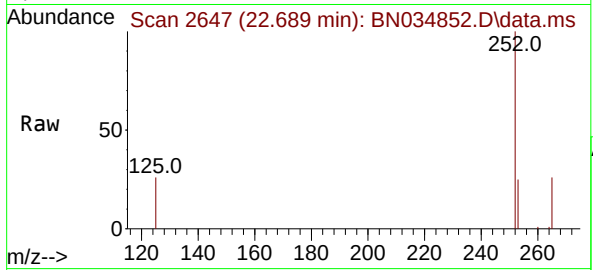
Tgt Ion:276 Resp: 11610
Ion Ratio Lower Upper
276 100
138 45.2 31.5 47.3
277 24.2 19.7 29.5



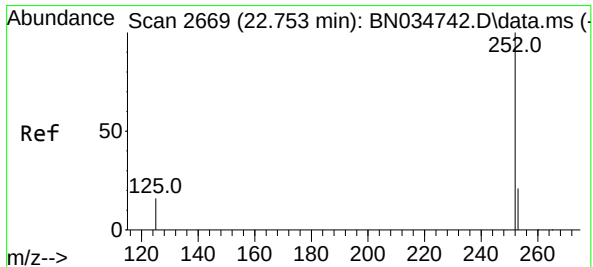
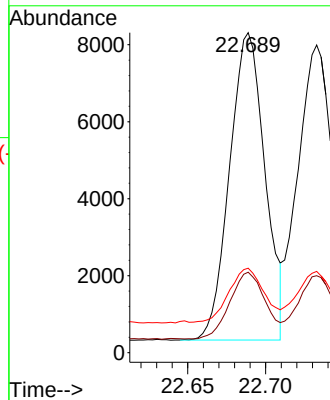
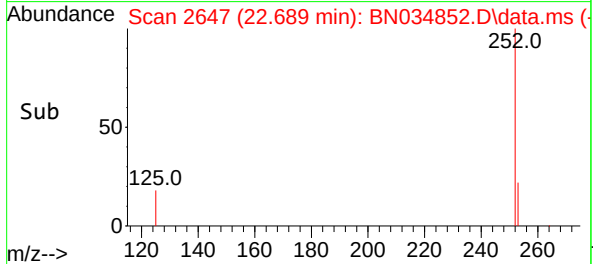


#37
Benzo(b)fluoranthene
Concen: 0.457 ng
RT: 22.689 min Scan# 2647
Delta R.T. -0.000 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45

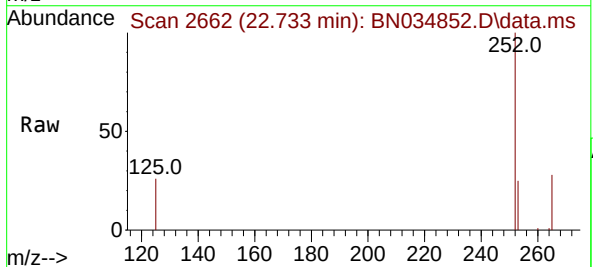
Instrument :
BNA_N
ClientSampleId :
PB164511BS



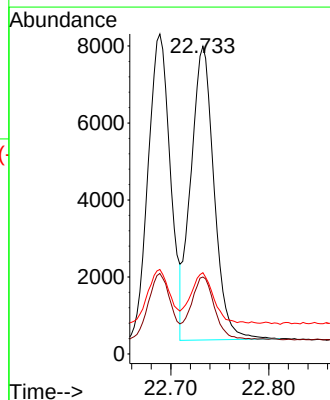
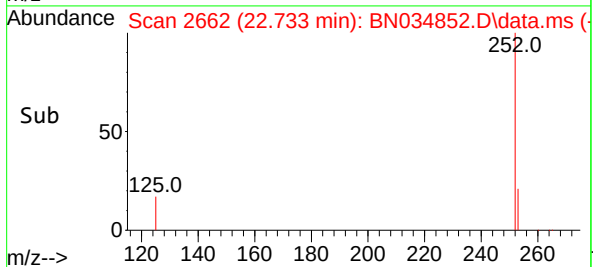
Tgt Ion:252 Resp: 12624
Ion Ratio Lower Upper
252 100
253 25.1 19.7 29.5
125 26.4 17.1 25.7#

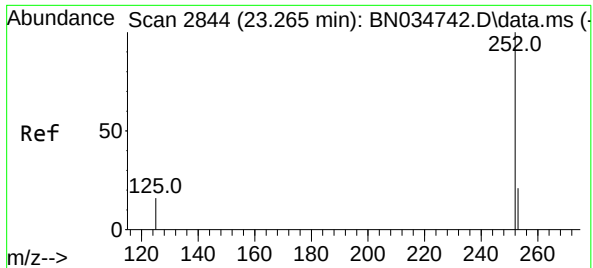


#38
Benzo(k)fluoranthene
Concen: 0.467 ng
RT: 22.733 min Scan# 2662
Delta R.T. 0.003 min
Lab File: BN034852.D
Acq: 04 Nov 2024 22:45



Tgt Ion:252 Resp: 12571
Ion Ratio Lower Upper
252 100
253 25.0 19.8 29.6
125 26.4 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.443 ng

RT: 23.244 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN034852.D

Acq: 04 Nov 2024 22:45

Instrument :

BNA_N

ClientSampleId :

PB164511BS

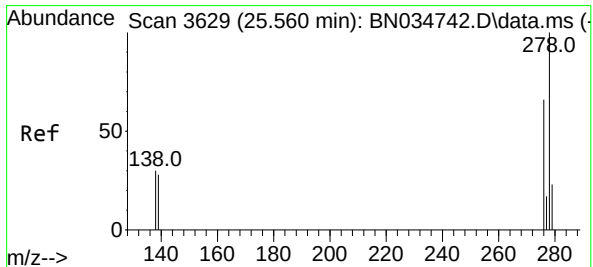
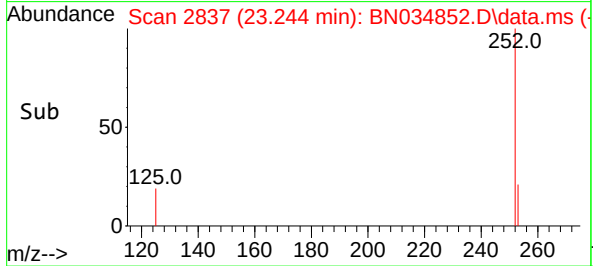
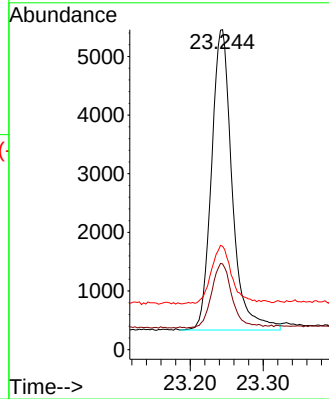
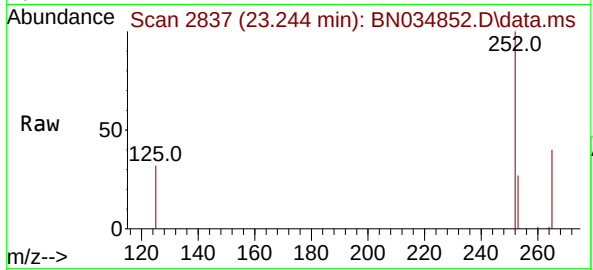
Tgt Ion:252 Resp: 10085

Ion Ratio Lower Upper

252 100

253 26.8 20.7 31.1

125 32.3 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.450 ng

RT: 25.525 min Scan# 3617

Delta R.T. -0.000 min

Lab File: BN034852.D

Acq: 04 Nov 2024 22:45

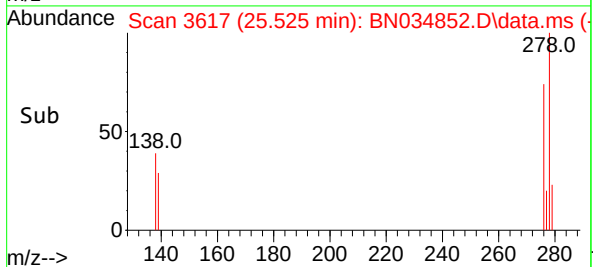
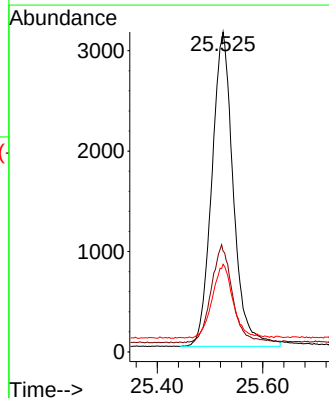
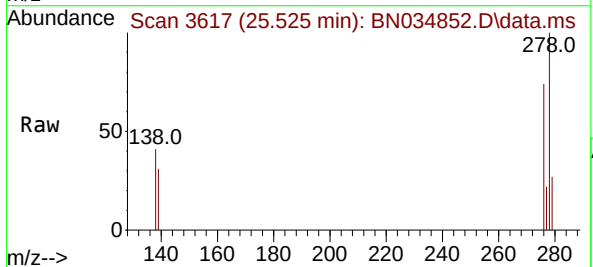
Tgt Ion:278 Resp: 8853

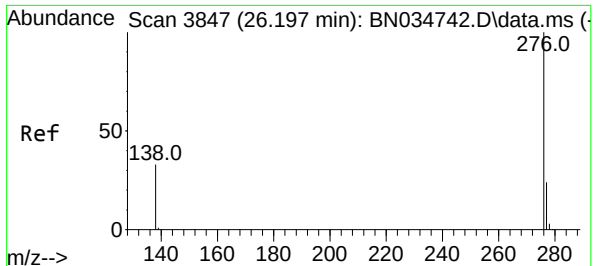
Ion Ratio Lower Upper

278 100

139 31.5 24.9 37.3

279 27.4 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.446 ng

RT: 26.162 min Scan# 3835

Delta R.T. -0.003 min

Lab File: BN034852.D

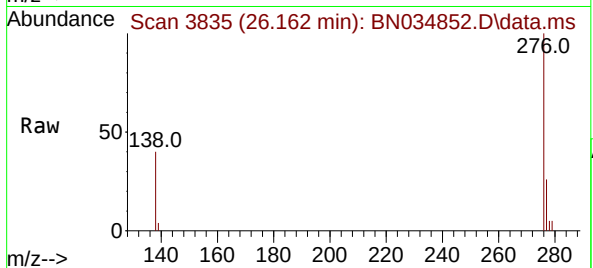
Acq: 04 Nov 2024 22:45

Instrument :

BNA_N

ClientSampleId :

PB164511BS



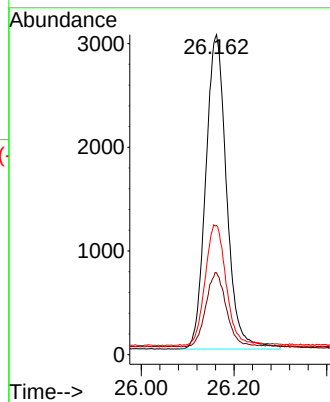
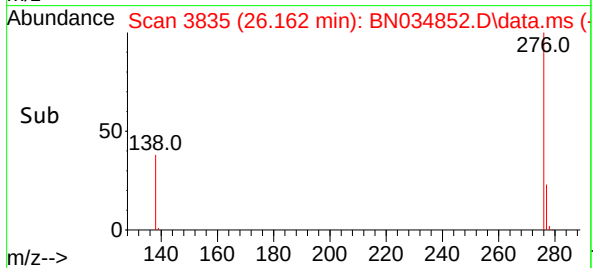
Tgt Ion:276 Resp: 9487

Ion Ratio Lower Upper

276 100

277 25.6 20.2 30.2

138 40.4 28.7 43.1



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB164511BSD	SDG No.:	P4600
Lab Sample ID:	PB164511BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034853.D	1	10/29/24 12:50	11/04/24 23:21	PB164511

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		102%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6840	7.589				
1146-65-2	Naphthalene-d8	20300	10.351				
15067-26-2	Acenaphthene-d10	9830	14.222				
1517-22-2	Phenanthrene-d10	18700	16.97				
1719-03-5	Chrysene-d12	9810	21.16				
1520-96-3	Perylene-d12	7140	23.335				

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\BN110424\
 Data File : BN034853.D
 Acq On : 04 Nov 2024 23:21
 Operator : RC/JU
 Sample : PB164511BSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164511BSD

Quant Time: Nov 05 00:12:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

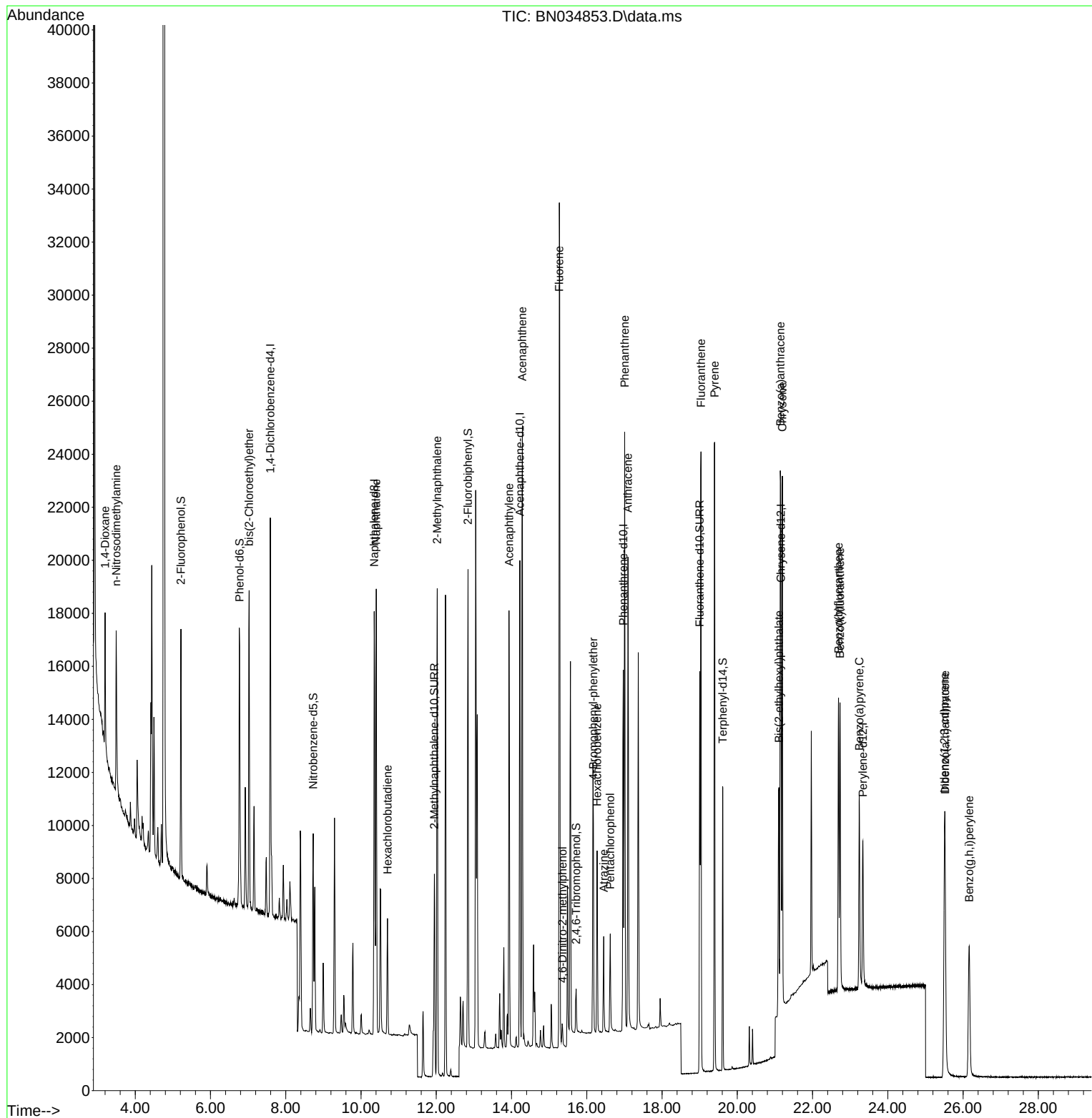
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6841	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	20343	0.400	ng	# 0.00
13) Acenaphthene-d10	14.222	164	9830	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	18690	0.400	ng	0.00
29) Chrysene-d12	21.160	240	9814	0.400	ng	# 0.00
35) Perylene-d12	23.335	264	7135	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	6846	0.330	ng	0.00
5) Phenol-d6	6.773	99	9291	0.345	ng	0.00
8) Nitrobenzene-d5	8.728	82	5751	0.360	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	12710	0.432	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	885	0.182	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	14930	0.386	ng	0.00
27) Fluoranthene-d10	19.001	212	14499	0.331	ng	0.00
31) Terphenyl-d14	19.614	244	8606	0.408	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	2453	0.327	ng	# 40
3) n-Nitrosodimethylamine	3.494	42	3893	0.461	ng	# 85
6) bis(2-Chloroethyl)ether	7.026	93	8000	0.407	ng	95
9) Naphthalene	10.404	128	20735	0.369	ng	99
10) Hexachlorobutadiene	10.703	225	3255	0.351	ng	# 98
12) 2-Methylnaphthalene	12.026	142	12912	0.351	ng	99
16) Acenaphthylene	13.933	152	17472	0.354	ng	100
17) Acenaphthene	14.286	154	11658	0.355	ng	95
18) Fluorene	15.270	166	14247	0.348	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	541	0.331	ng	# 83
21) 4-Bromophenyl-phenylether	16.175	248	3696	0.342	ng	93
22) Hexachlorobenzene	16.275	284	4609	0.381	ng	94
23) Atrazine	16.448	200	2599	0.279	ng	98
24) Pentachlorophenol	16.622	266	1665	0.319	ng	98
25) Phenanthrene	17.007	178	21632	0.394	ng	99
26) Anthracene	17.094	178	19075	0.371	ng	100
28) Fluoranthene	19.034	202	20559	0.339	ng	99
30) Pyrene	19.396	202	20656	0.403	ng	100
32) Benzo(a)anthracene	21.142	228	14497	0.371	ng	100
33) Chrysene	21.196	228	15707	0.411	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	7725	0.236	ng	97
36) Indeno(1,2,3-cd)pyrene	25.504	276	11454	0.436	ng	94
37) Benzo(b)fluoranthene	22.689	252	12554	0.437	ng	# 96
38) Benzo(k)fluoranthene	22.730	252	12552	0.448	ng	96
39) Benzo(a)pyrene	23.241	252	9977	0.421	ng	# 92
40) Dibenzo(a,h)anthracene	25.522	278	8691	0.425	ng	98
41) Benzo(g,h,i)perylene	26.159	276	9347	0.423	ng	94

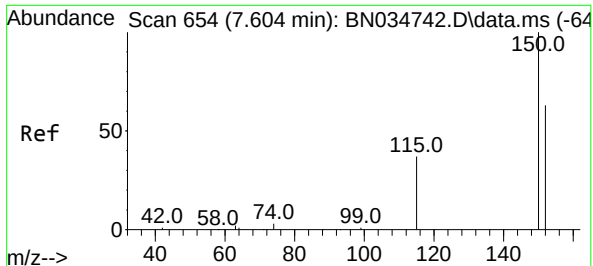
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034853.D
 Acq On : 04 Nov 2024 23:21
 Operator : RC/JU
 Sample : PB164511BSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB164511BSD

Quant Time: Nov 05 00:12:09 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

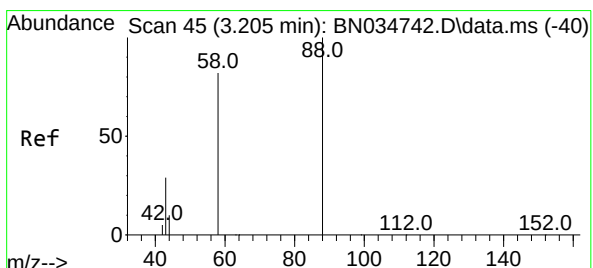
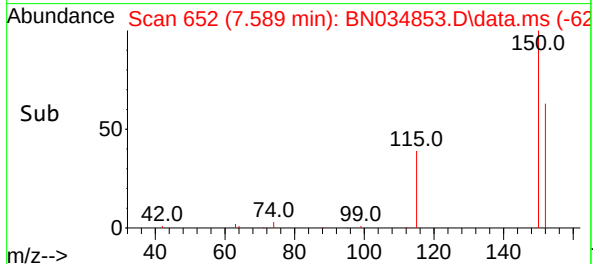
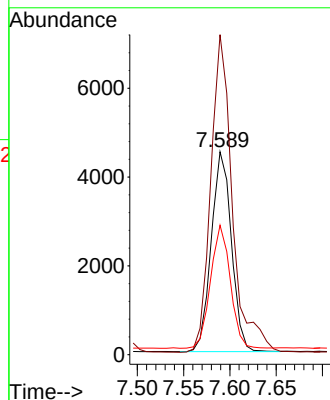
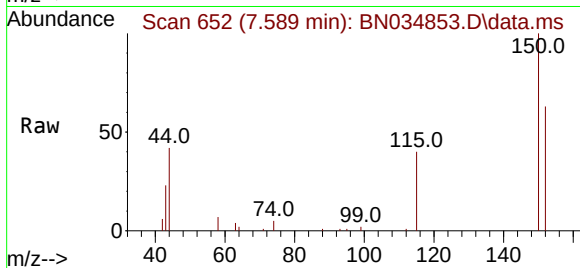




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

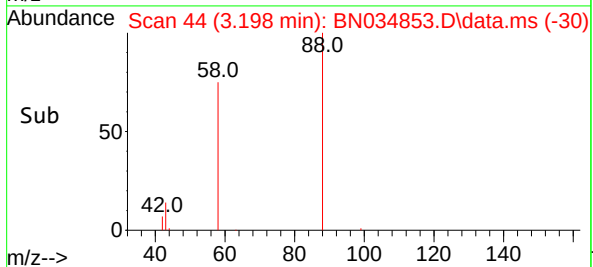
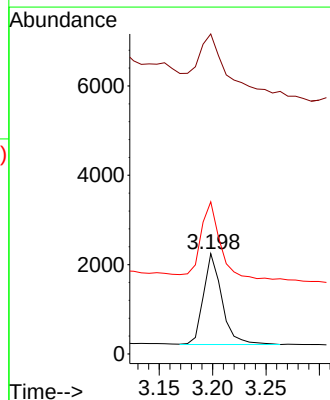
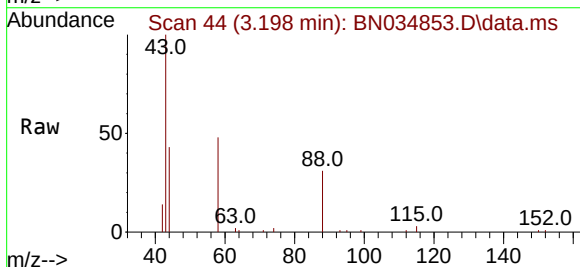
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

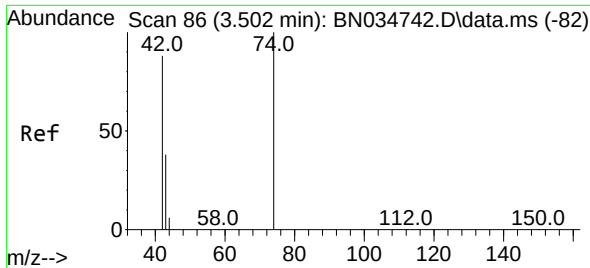
Tgt Ion:152 Resp: 6841
Ion Ratio Lower Upper
152 100
150 157.8 124.9 187.3
115 63.8 50.2 75.2



#2
1,4-Dioxane
Concen: 0.327 ng
RT: 3.198 min Scan# 44
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion: 88 Resp: 2453
Ion Ratio Lower Upper
88 100
43 114.3 26.7 40.1#
58 93.6 59.3 88.9#

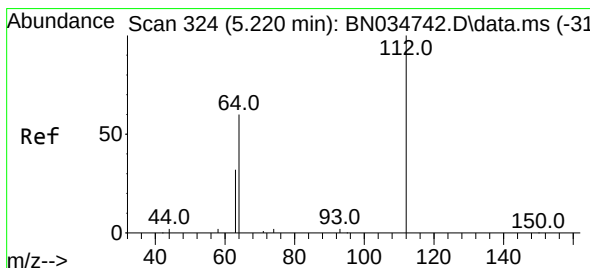
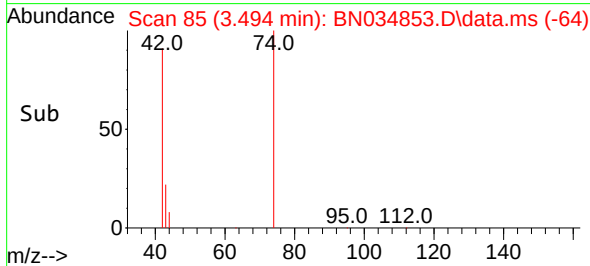
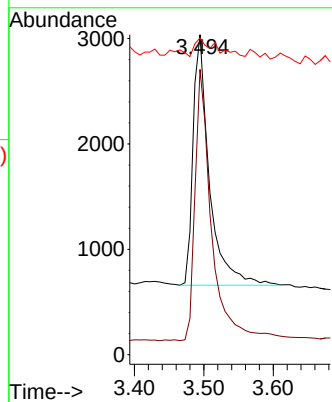
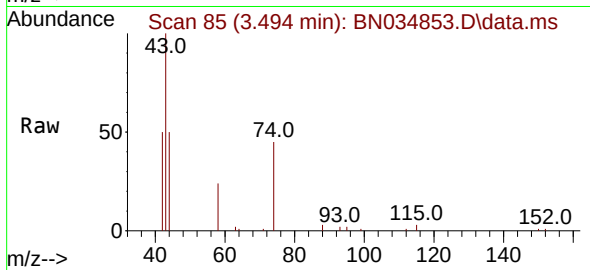




#3
n-Nitrosodimethylamine
Concen: 0.461 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

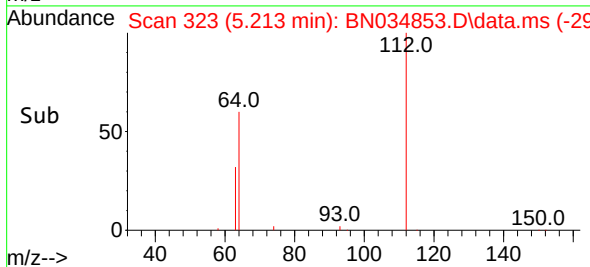
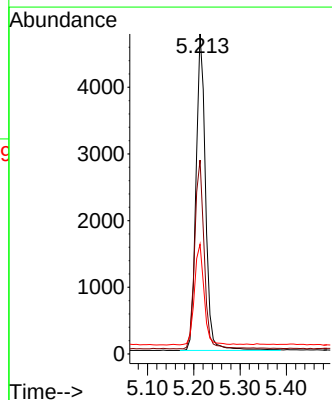
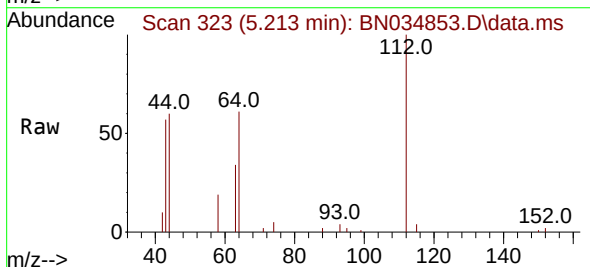
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

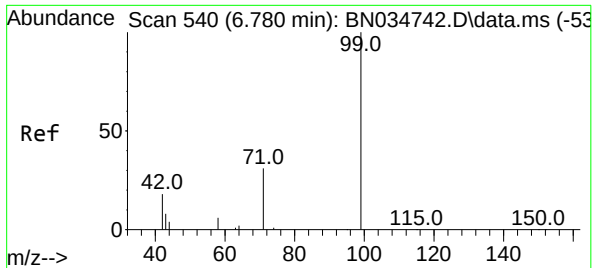
Tgt Ion: 42 Resp: 3893
Ion Ratio Lower Upper
42 100
74 110.8 103.1 154.7
44 10.4 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.330 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion: 112 Resp: 6846
Ion Ratio Lower Upper
112 100
64 59.4 44.9 67.3
63 31.8 23.5 35.3

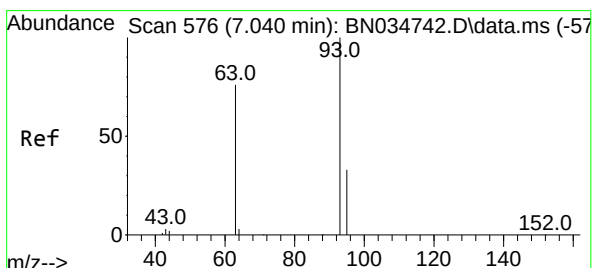
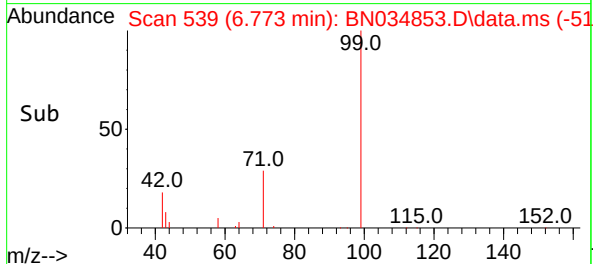
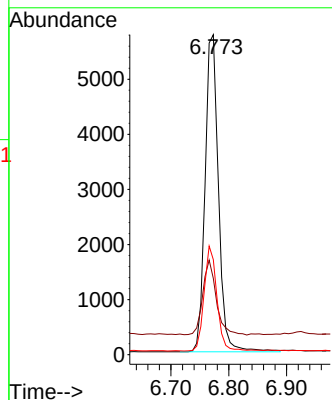
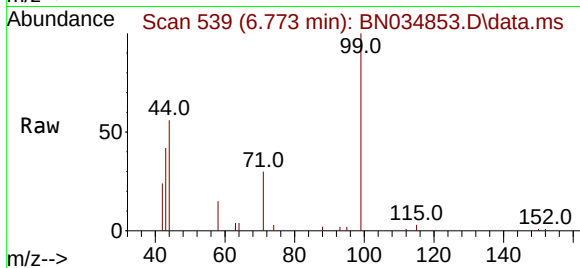




#5
Phenol-d6
Concen: 0.345 ng
RT: 6.773 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

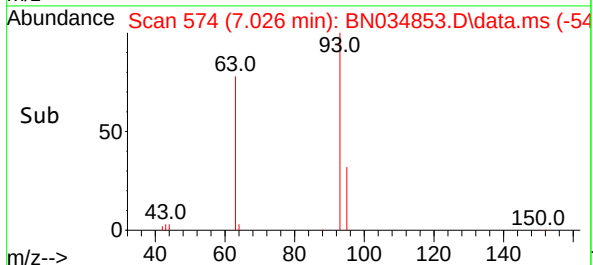
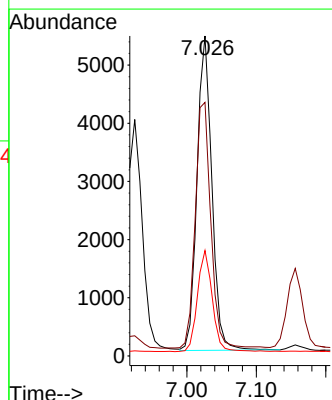
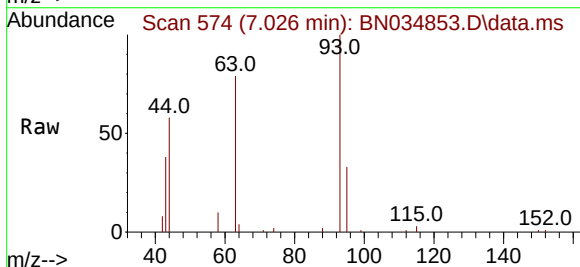
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

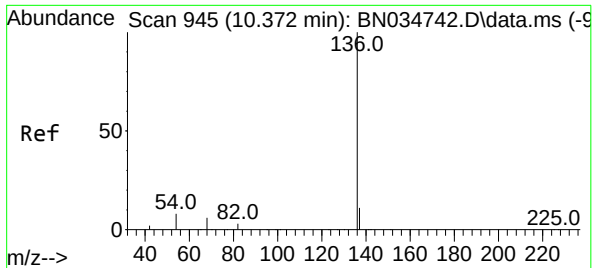
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.8	15.9	23.9
71	31.8	24.3	36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion	Ratio	Lower	Upper
93	100		
63	82.1	61.2	91.8
95	32.2	25.8	38.8

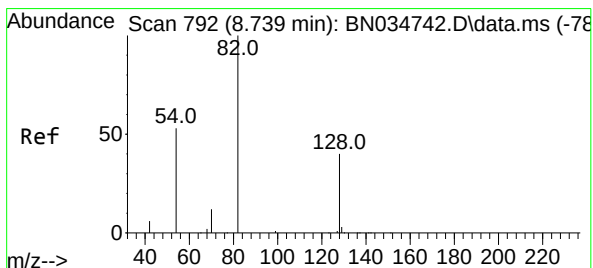
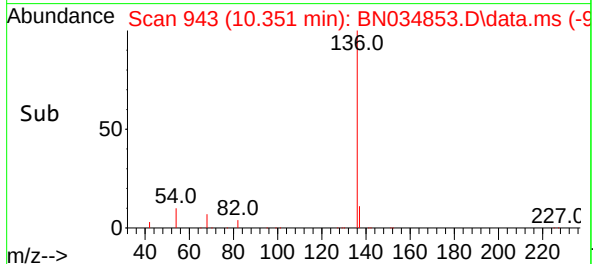
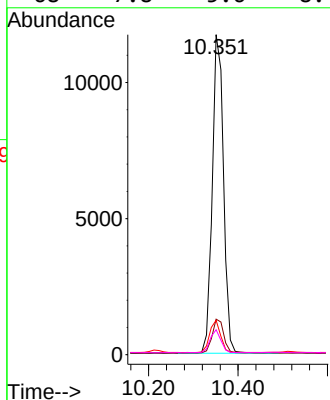
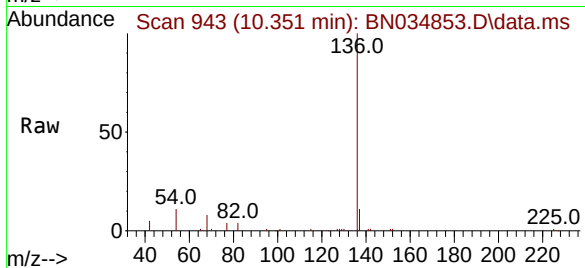




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

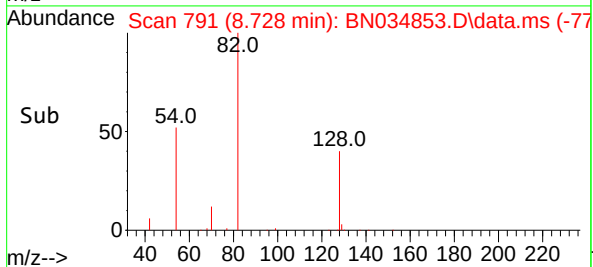
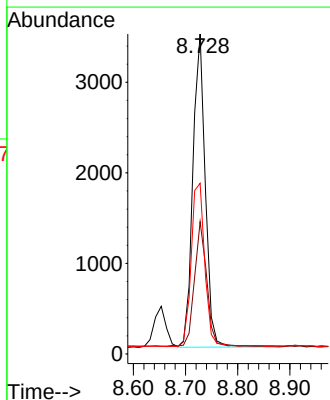
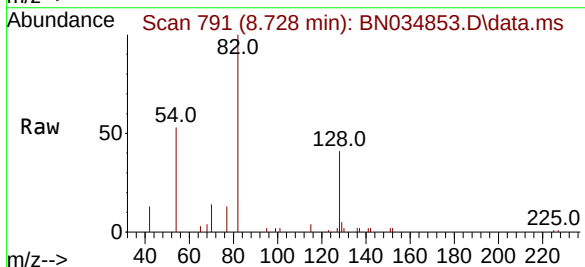
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

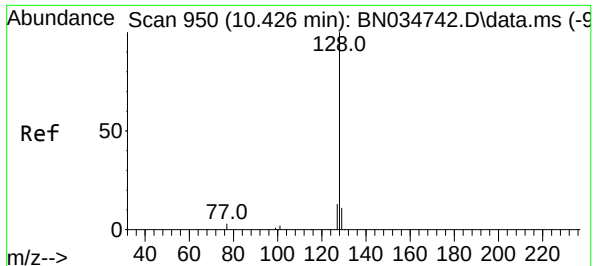
Tgt Ion:	136	Resp:	20343
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.2	13.8
54	10.7	7.0	10.4
68	7.8	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:	82	Resp:	5751
Ion	Ratio	Lower	Upper
82	100		
128	41.3	33.7	50.5
54	53.4	44.4	66.6

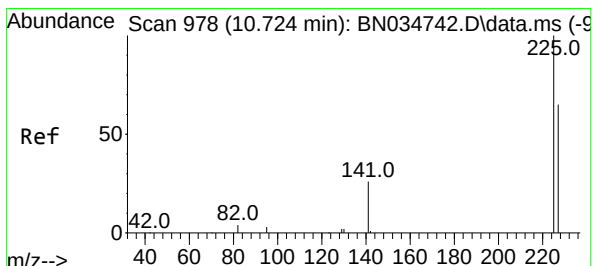
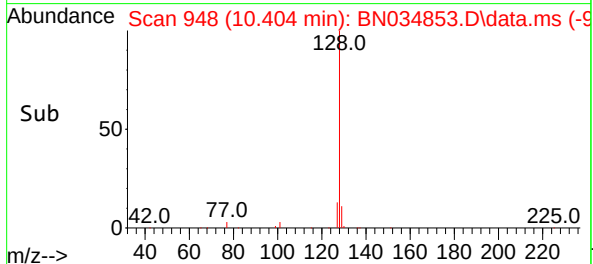
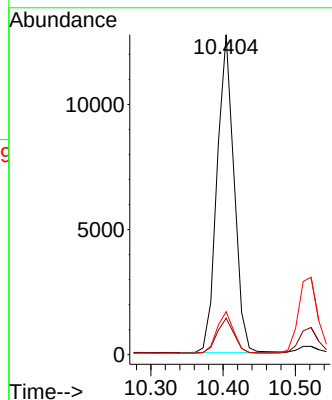
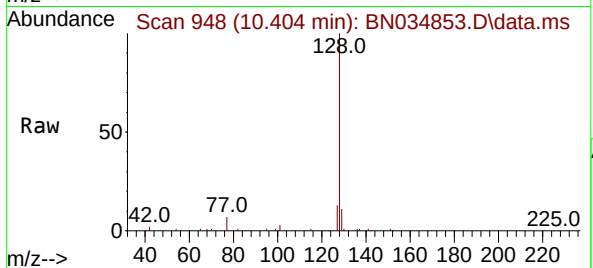




#9
Naphthalene
Concen: 0.369 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

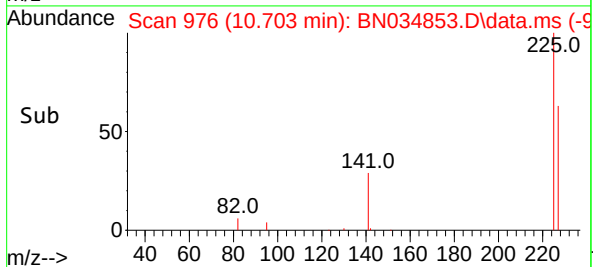
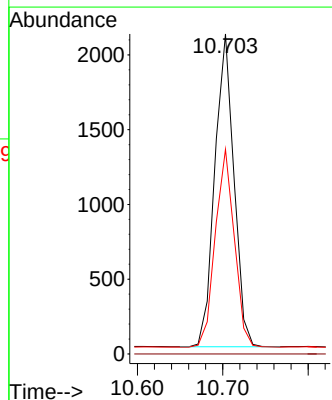
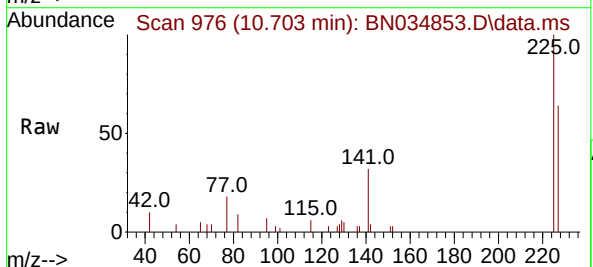
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

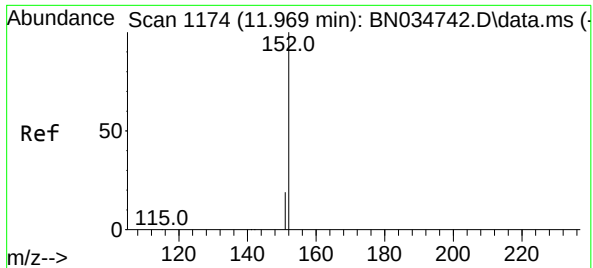
Tgt Ion:128 Resp: 20735
Ion Ratio Lower Upper
128 100
129 11.4 9.4 14.0
127 13.4 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.351 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:225 Resp: 3255
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 51.4 77.2

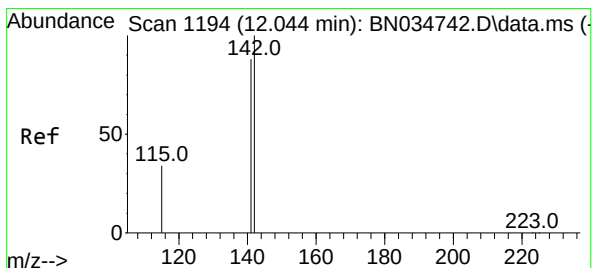
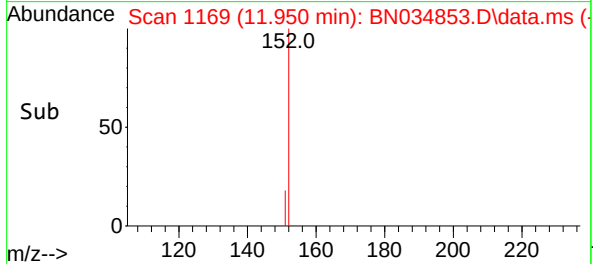
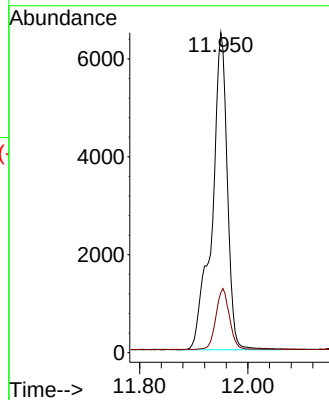
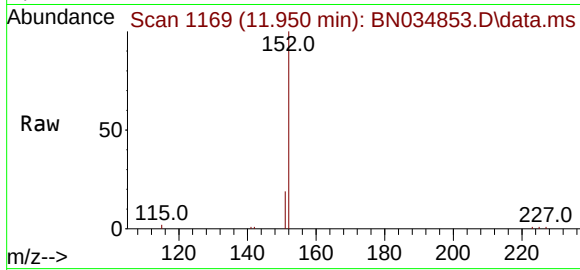




#11
2-Methylnaphthalene-d10
Concen: 0.432 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

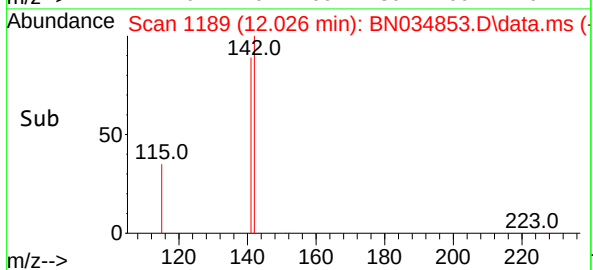
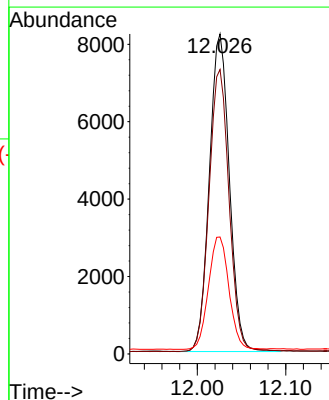
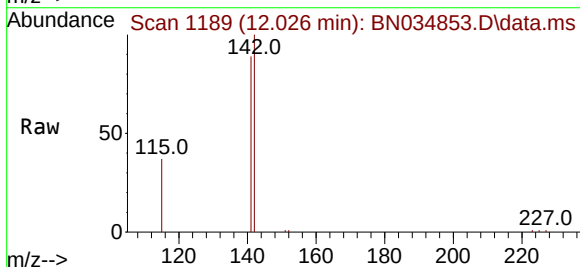
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

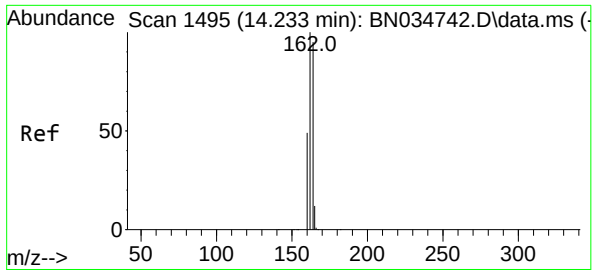
Tgt Ion:152 Resp: 12710
Ion Ratio Lower Upper
152 100
151 16.9 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.351 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:142 Resp: 12912
Ion Ratio Lower Upper
142 100
141 88.9 70.6 106.0
115 36.5 28.6 42.8

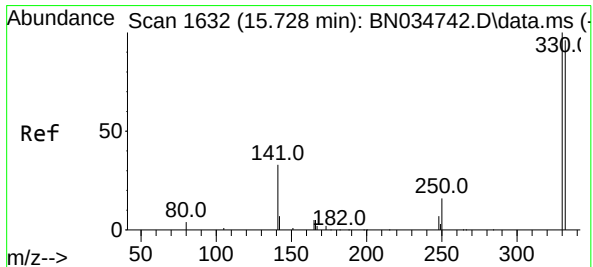
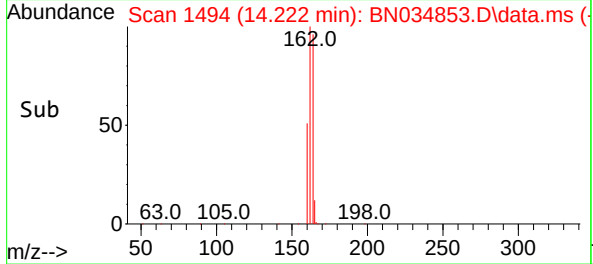
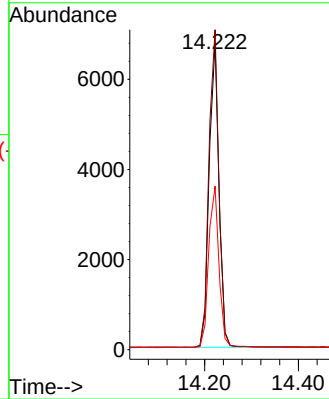
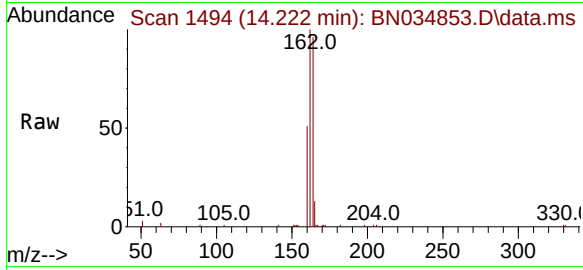




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.222 min Scan# 1494
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

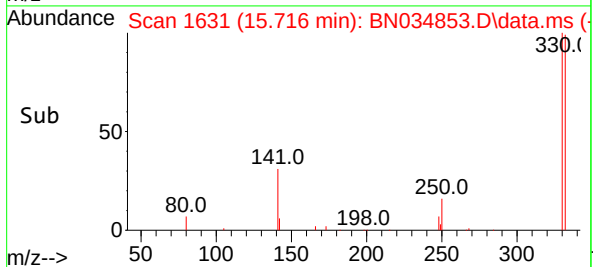
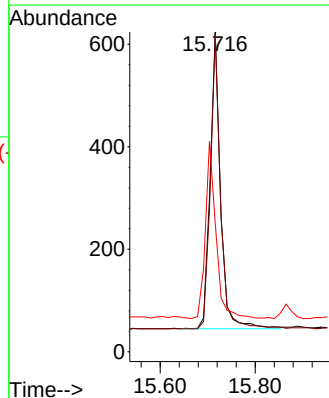
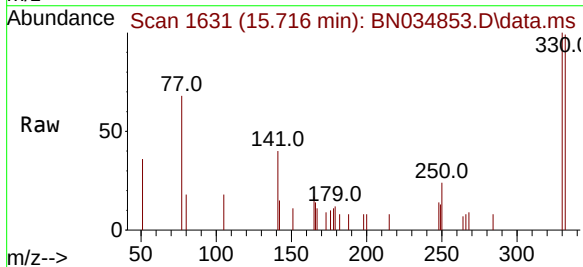
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

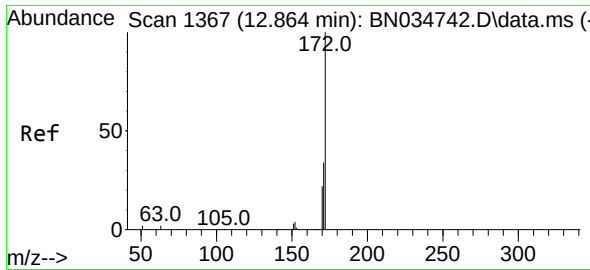
Tgt Ion:164 Resp: 9830
Ion Ratio Lower Upper
164 100
162 104.3 84.3 126.5
160 53.3 41.7 62.5



#14
2,4,6-Tribromophenol
Concen: 0.182 ng
RT: 15.716 min Scan# 1631
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:330 Resp: 885
Ion Ratio Lower Upper
330 100
332 96.6 77.8 116.6
141 60.3 41.0 61.4

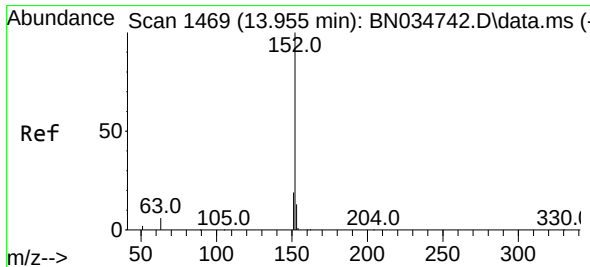
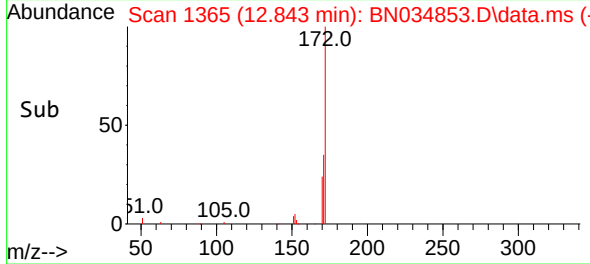
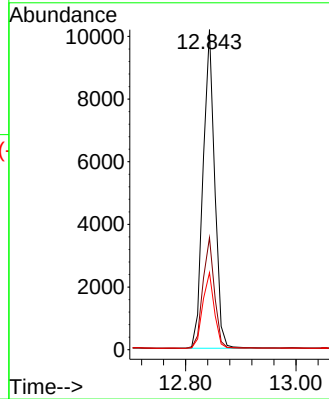
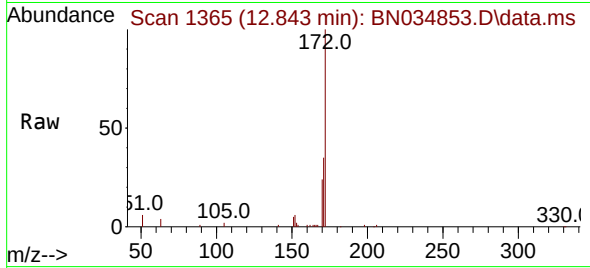




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

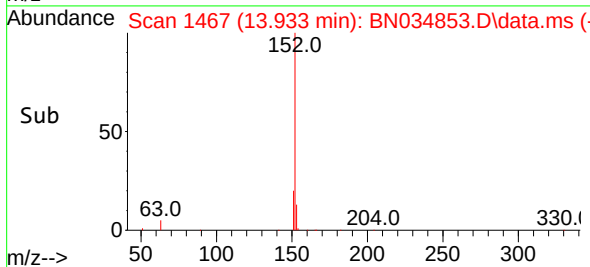
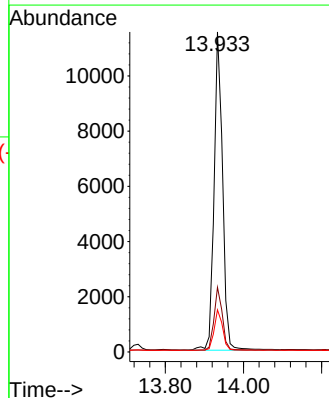
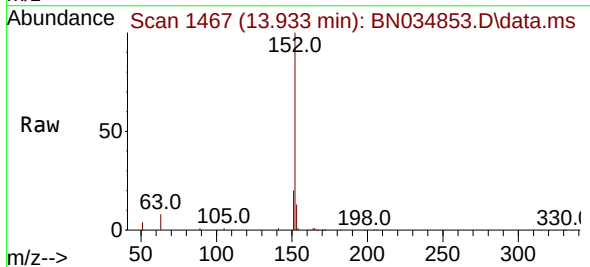
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

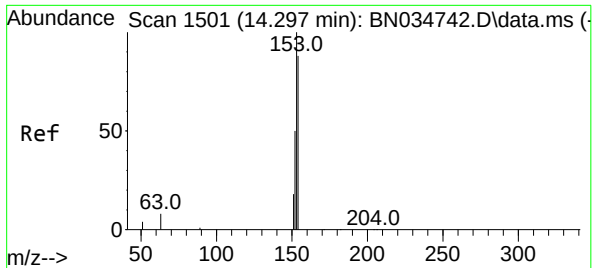
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.2	40.8
170	24.1	18.0	27.0



#16
Acenaphthylene
Concen: 0.354 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	12.8	10.2	15.4

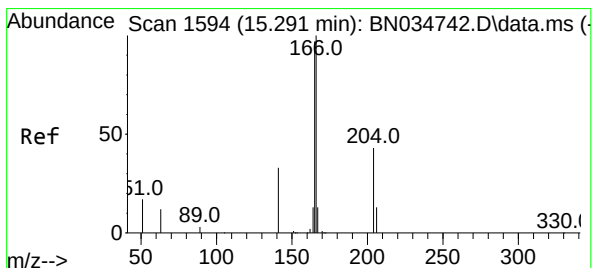
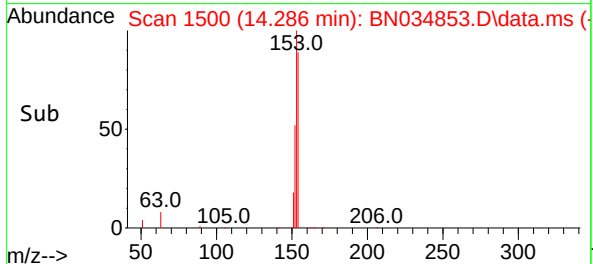
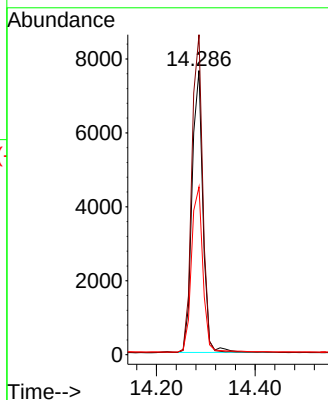
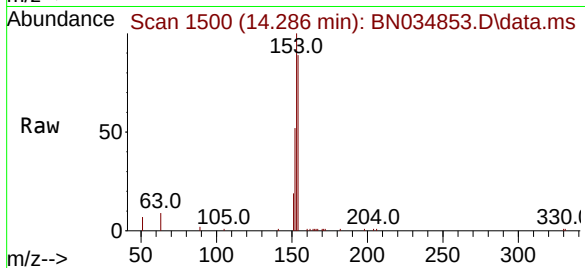




#17
Acenaphthene
Concen: 0.355 ng
RT: 14.286 min Scan# 1500
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

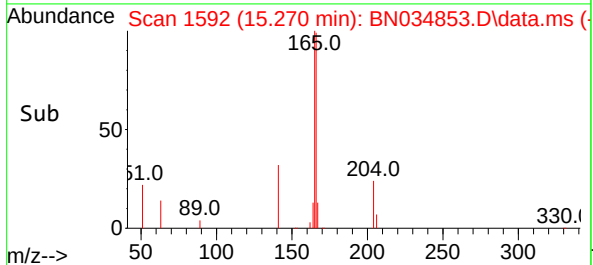
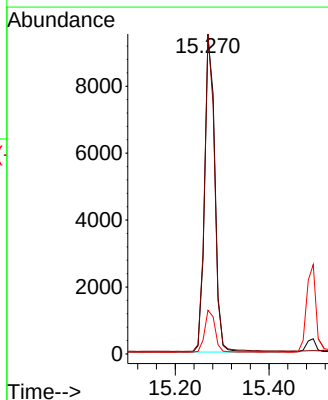
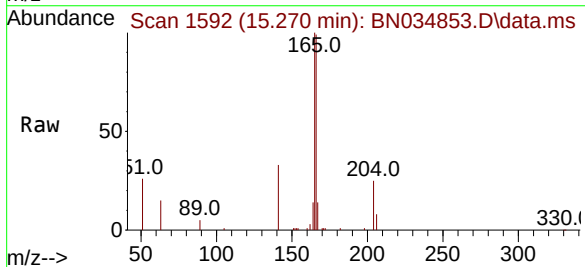
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

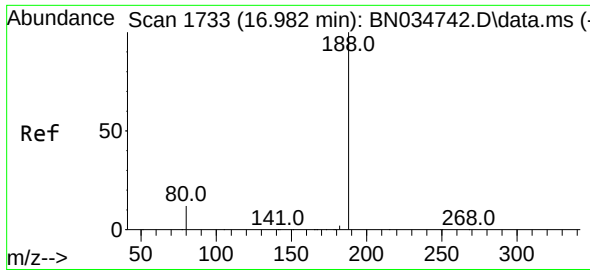
Tgt Ion:154 Resp: 11658
Ion Ratio Lower Upper
154 100
153 113.5 87.8 131.6
152 61.4 44.6 67.0



#18
Fluorene
Concen: 0.348 ng
RT: 15.270 min Scan# 1592
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:166 Resp: 14247
Ion Ratio Lower Upper
166 100
165 99.3 78.5 117.7
167 13.5 10.8 16.2

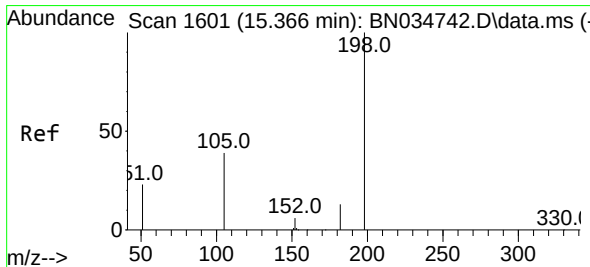
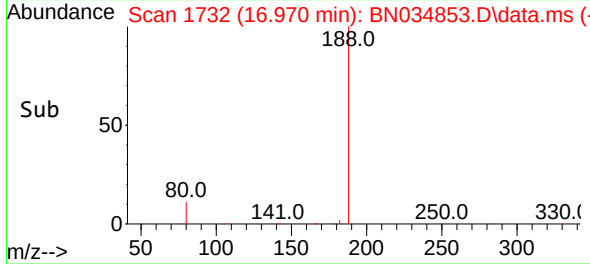
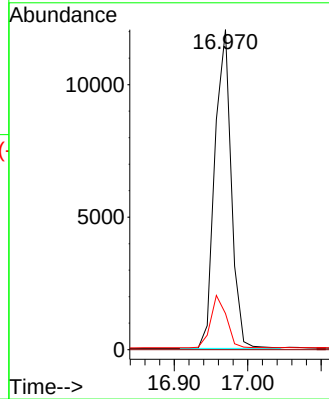
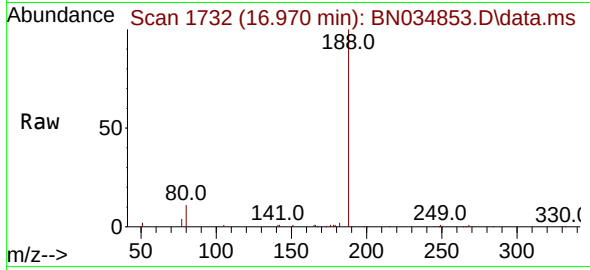




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

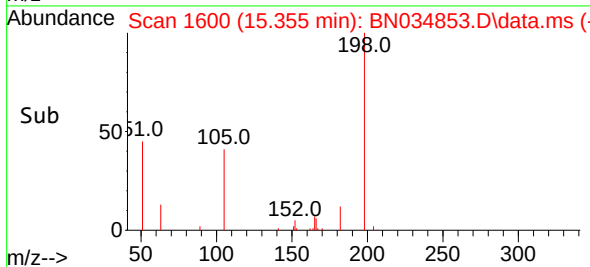
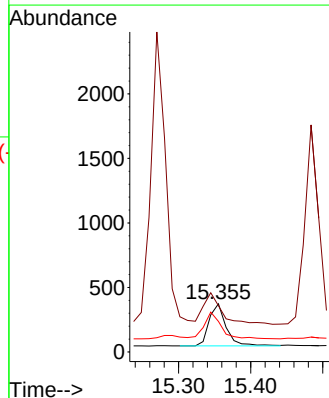
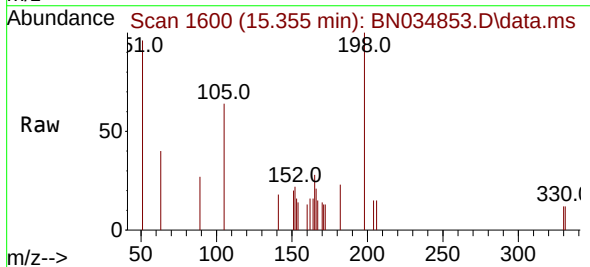
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

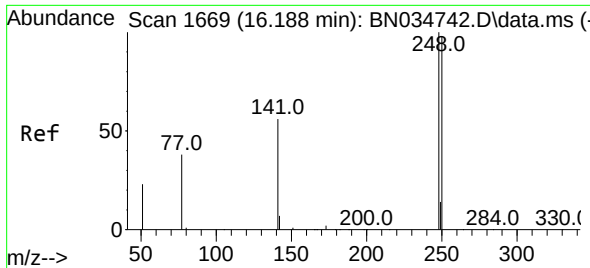
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.3	9.8	14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.331 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion	Ratio	Lower	Upper
198	100		
51	96.2	58.0	87.0#
105	63.5	49.1	73.7

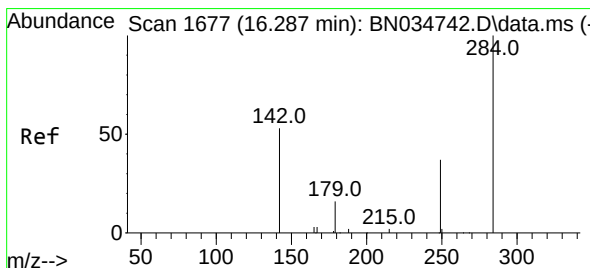
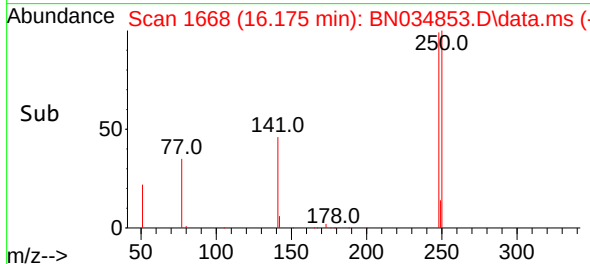
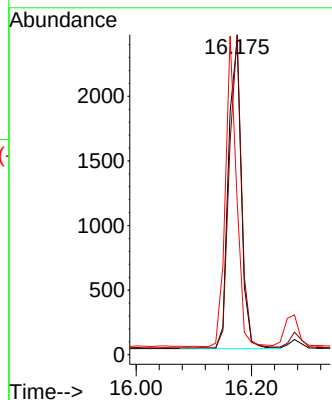
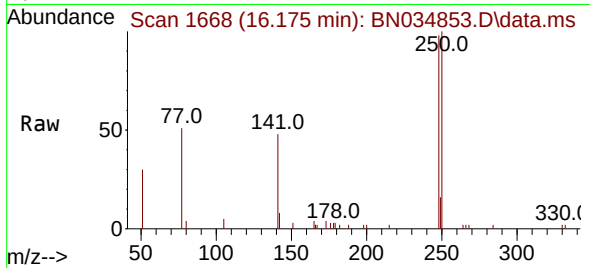




#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

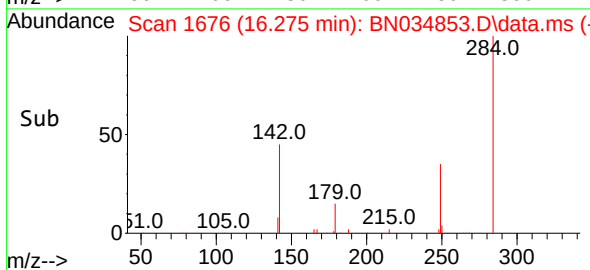
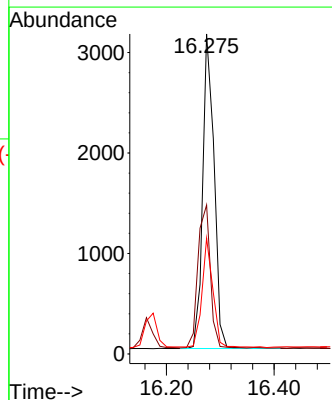
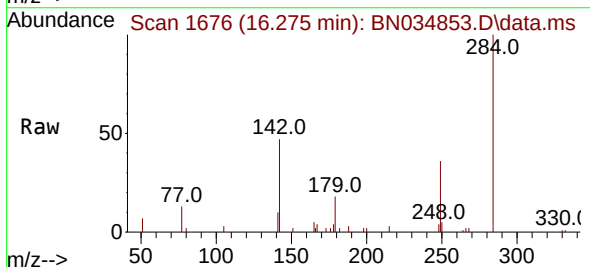
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

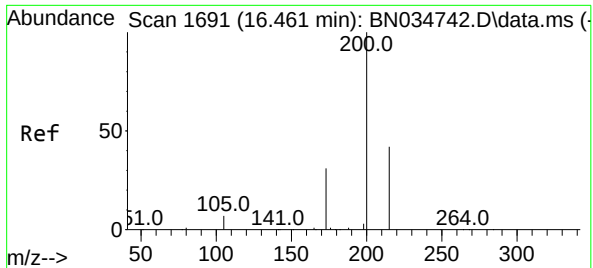
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.8	78.7	118.1
141	48.7	46.4	69.6



#22
Hexachlorobenzene
Concen: 0.381 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.6	35.4	53.0
249	33.6	25.7	38.5

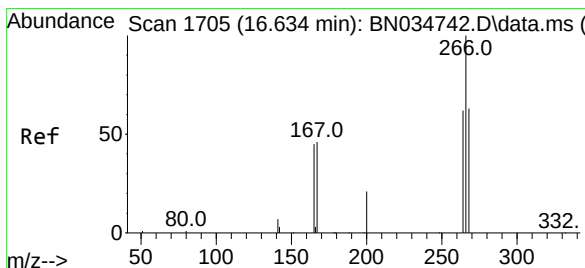
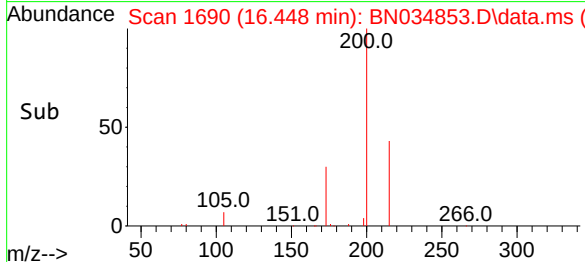
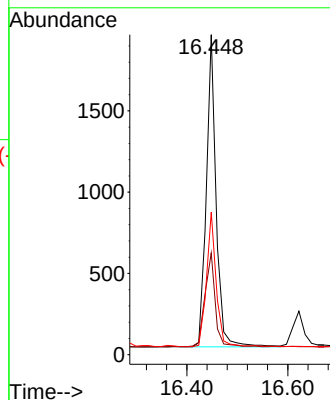
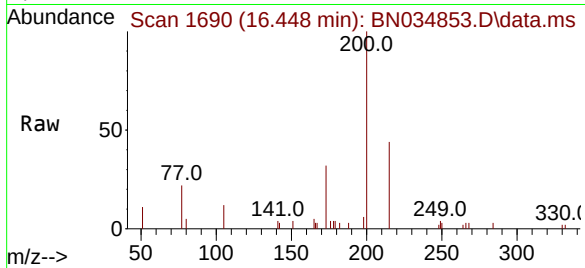




#23
Atrazine
Concen: 0.279 ng
RT: 16.448 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

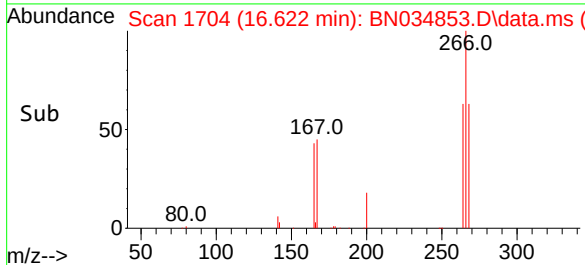
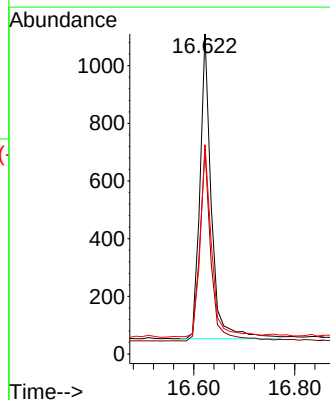
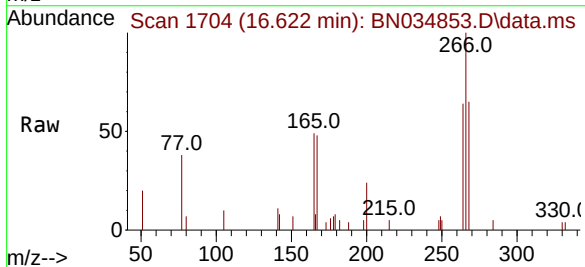
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

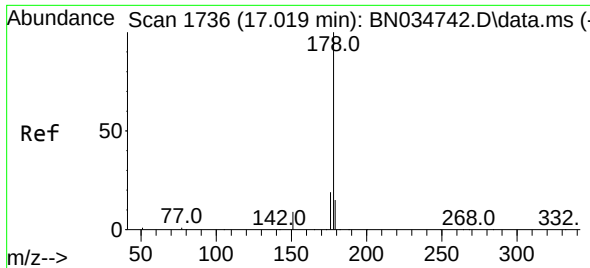
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.8	25.8	38.6
215	44.5	34.2	51.4



#24
Pentachlorophenol
Concen: 0.319 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.6	48.7	73.1
268	64.1	50.2	75.4

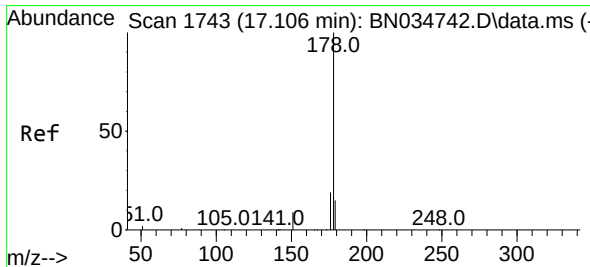
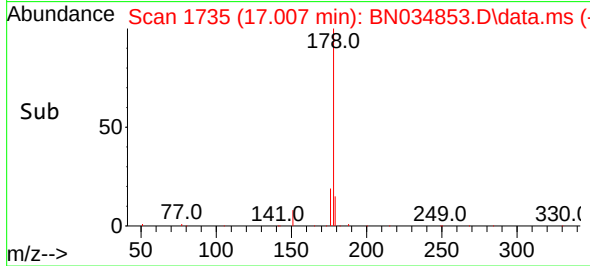
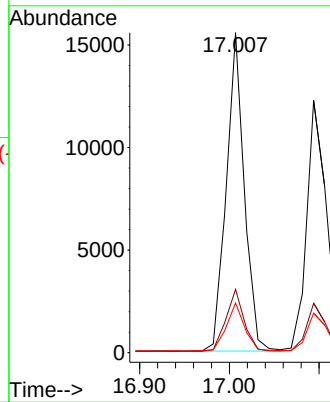
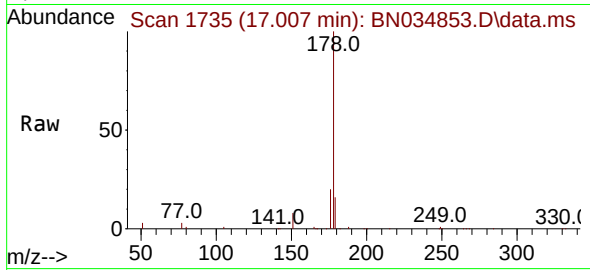




#25
Phenanthrene
Concen: 0.394 ng
RT: 17.007 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

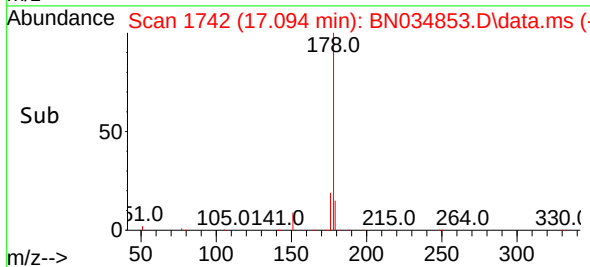
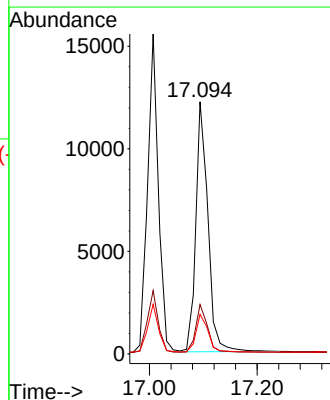
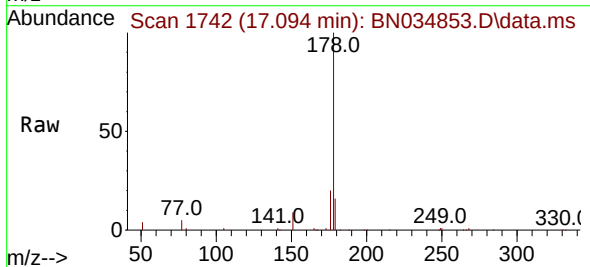
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

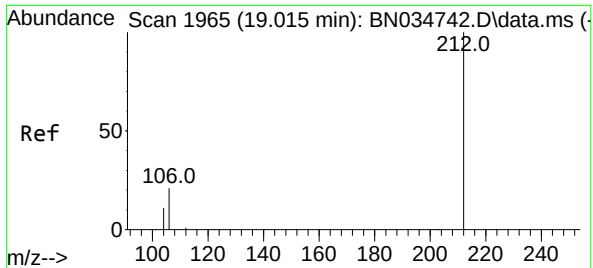
Tgt Ion:178 Resp: 21632
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.0
179 15.4 12.2 18.4



#26
Anthracene
Concen: 0.371 ng
RT: 17.094 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:178 Resp: 19075
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.3 12.2 18.2

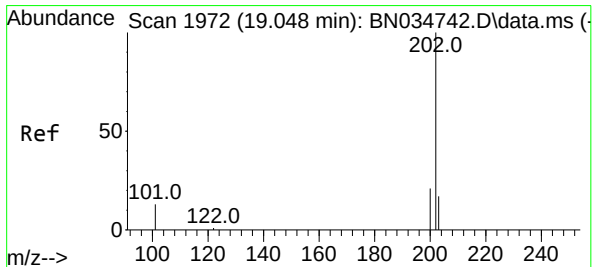
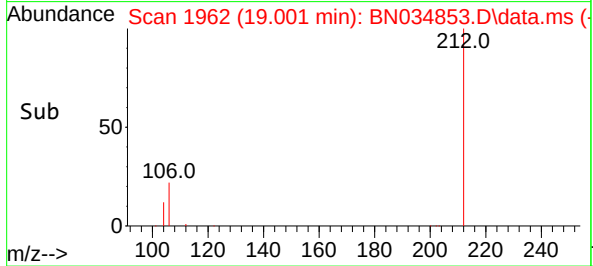
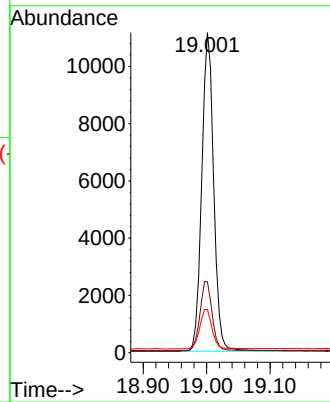
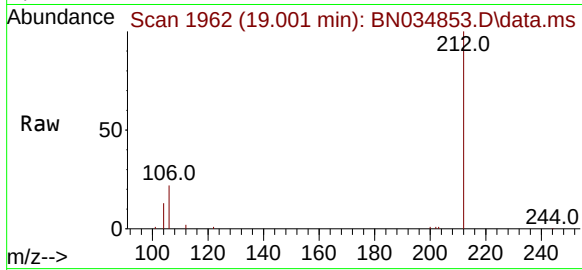




#27
Fluoranthene-d10
Concen: 0.331 ng
RT: 19.001 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

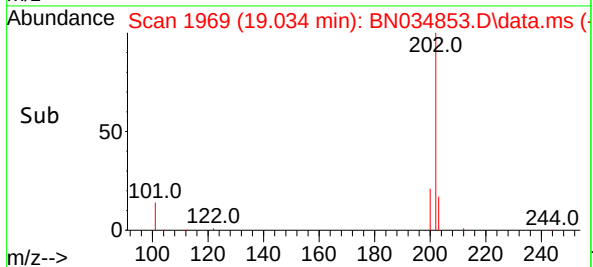
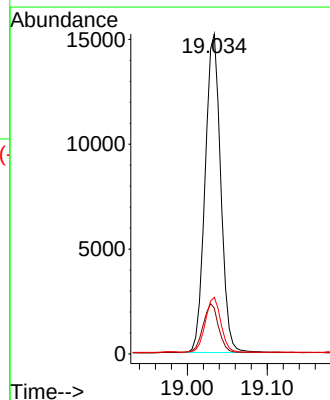
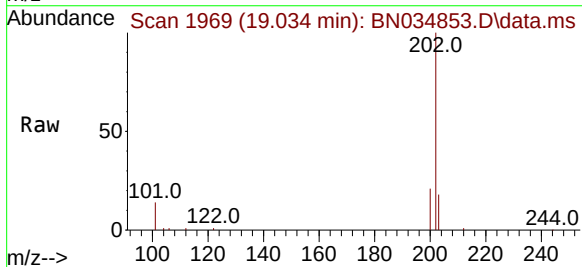
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

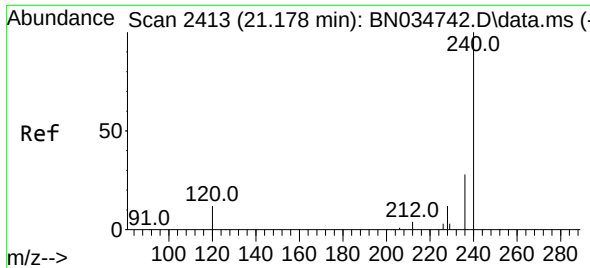
Tgt Ion	Ratio	Lower	Upper
212	100		
106	22.2	16.1	24.1
104	12.9	9.2	13.8



#28
Fluoranthene
Concen: 0.339 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.5	11.4	17.0
203	17.1	13.7	20.5

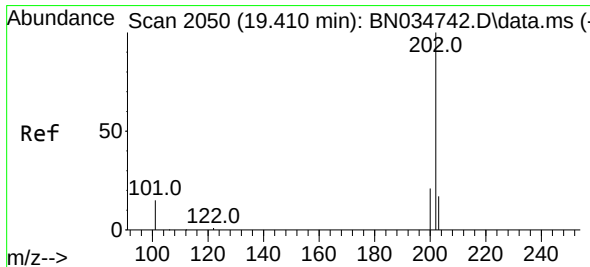
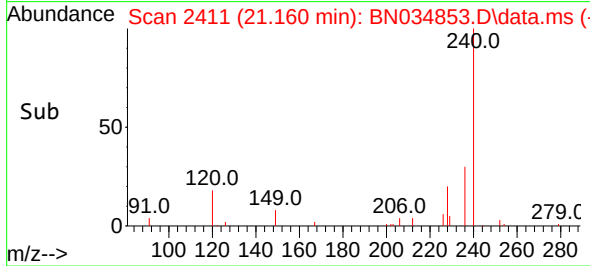
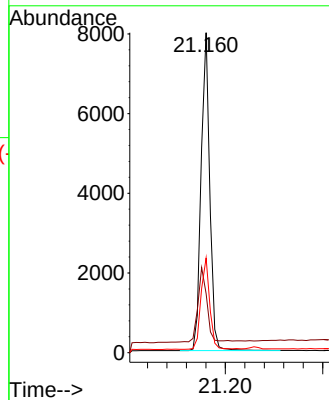
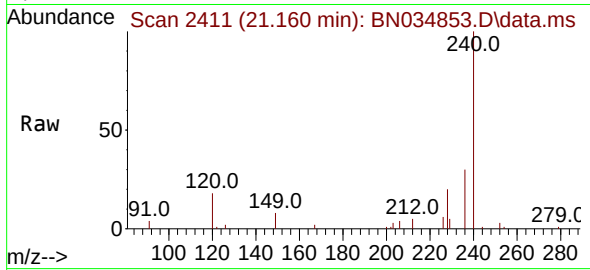




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

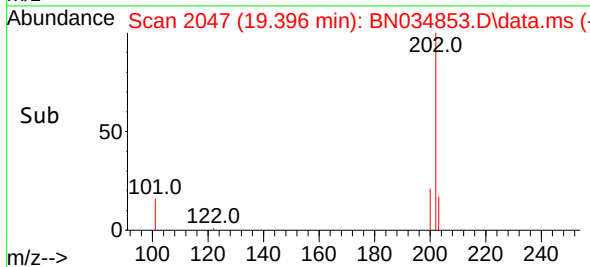
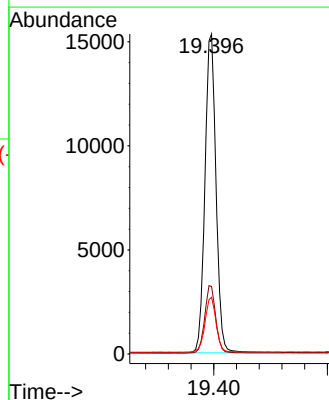
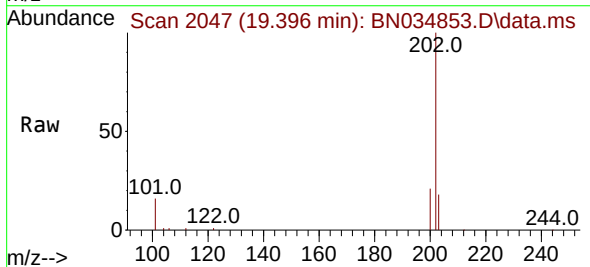
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

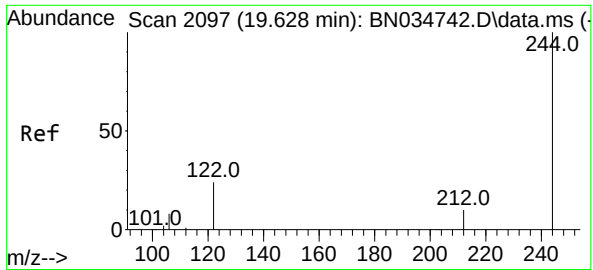
Tgt Ion:240 Resp: 9814
Ion Ratio Lower Upper
240 100
120 18.5 11.5 17.3#
236 29.6 23.2 34.8



#30
Pyrene
Concen: 0.403 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:202 Resp: 20656
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.5 14.2 21.2

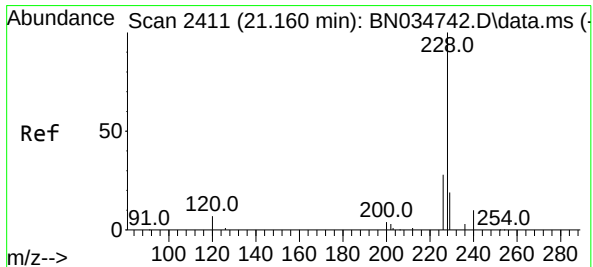
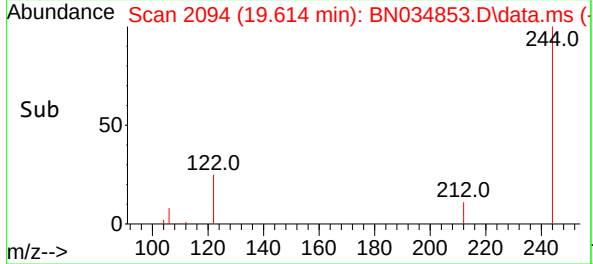
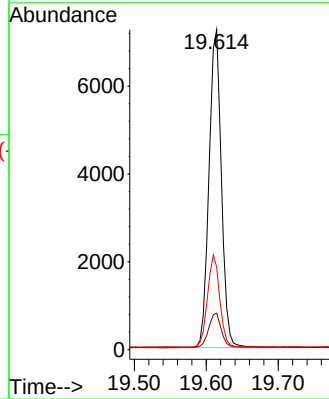
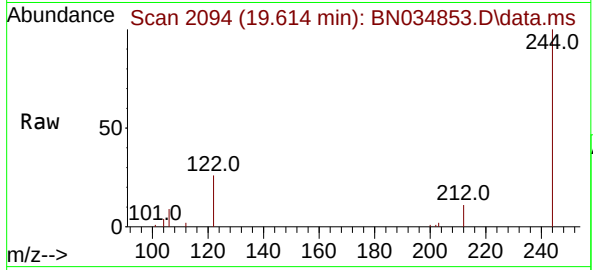




#31
Terphenyl-d14
Concen: 0.408 ng
RT: 19.614 min Scan# 2094
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

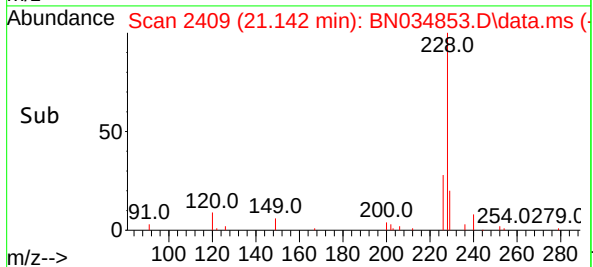
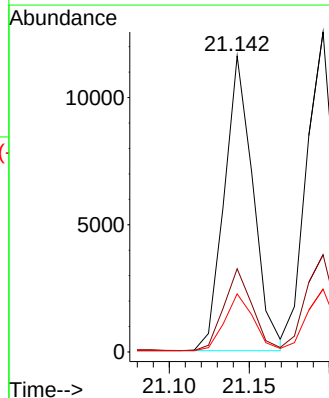
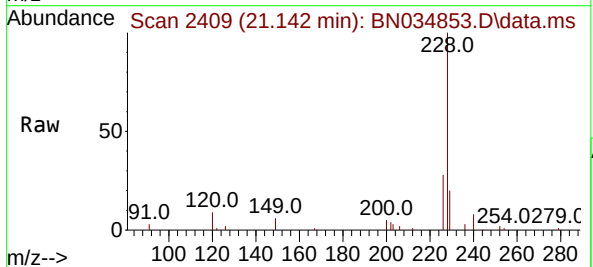
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

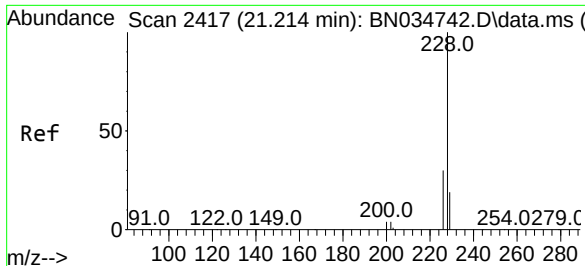
Tgt Ion:244 Resp: 8606
Ion Ratio Lower Upper
244 100
212 11.4 8.2 12.4
122 25.7 19.8 29.6



#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.142 min Scan# 2409
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:228 Resp: 14497
Ion Ratio Lower Upper
228 100
226 28.1 22.6 33.8
229 19.6 15.7 23.5

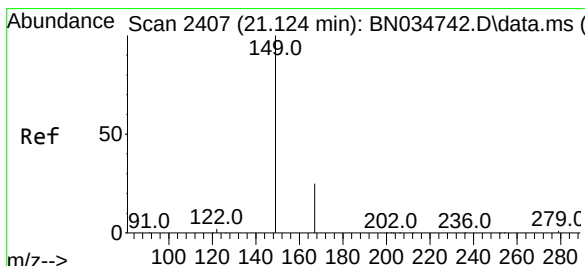
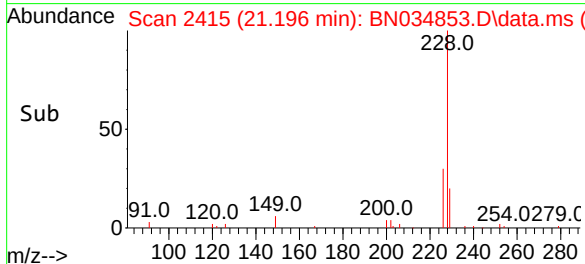
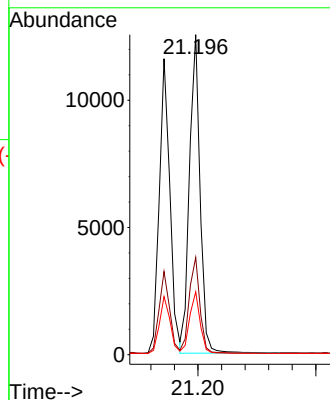
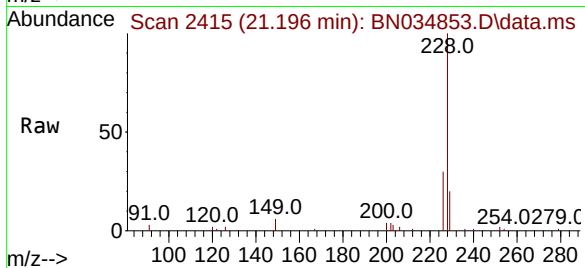




#33
Chrysene
Concen: 0.411 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

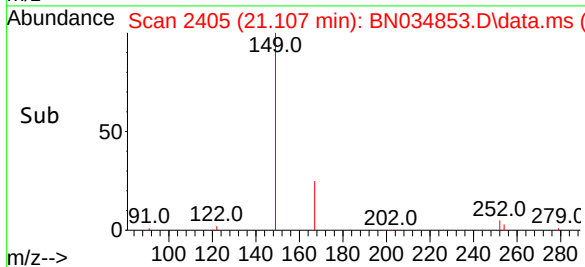
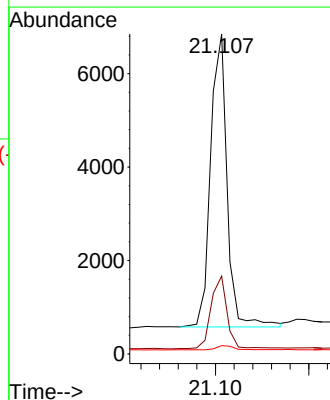
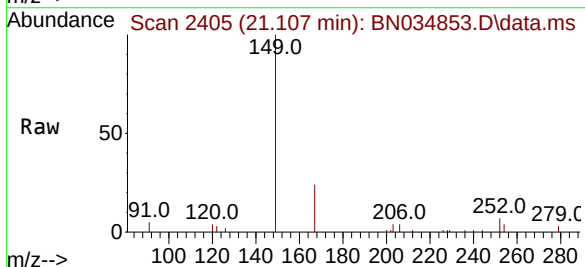
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

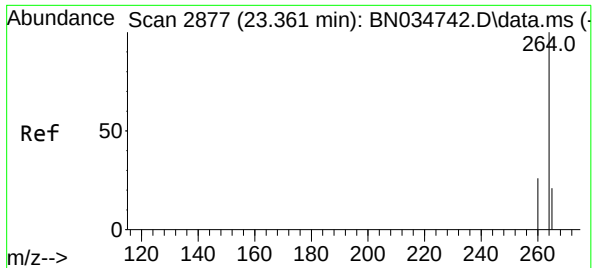
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.4	36.6
229	19.7	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.236 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.2	20.6	30.8
279	1.6	1.5	2.3

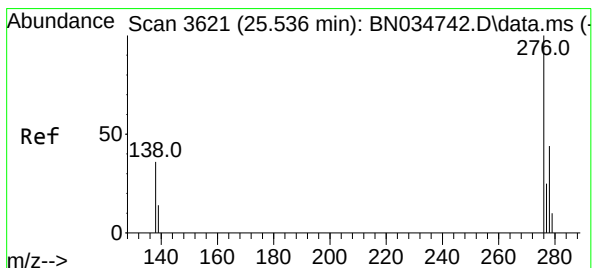
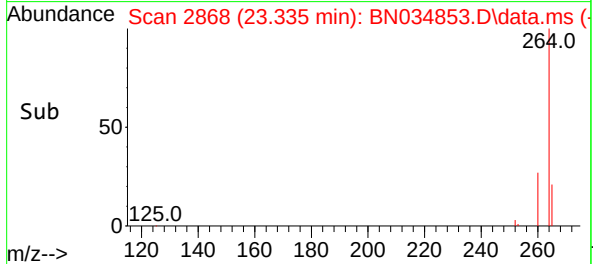
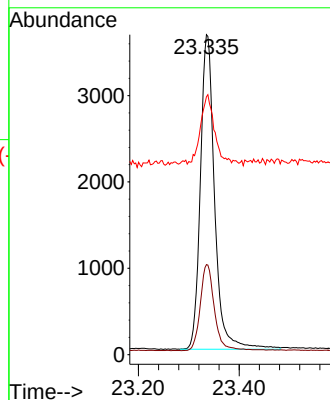
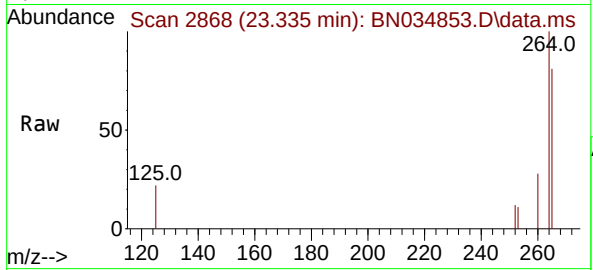




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.335 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

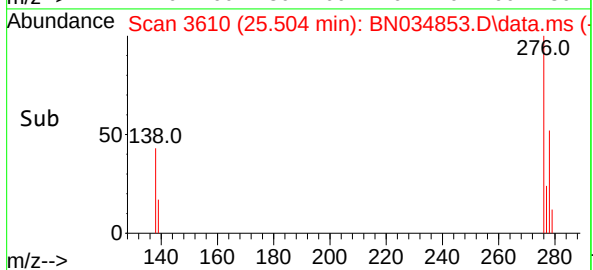
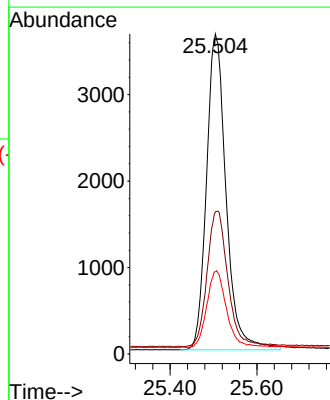
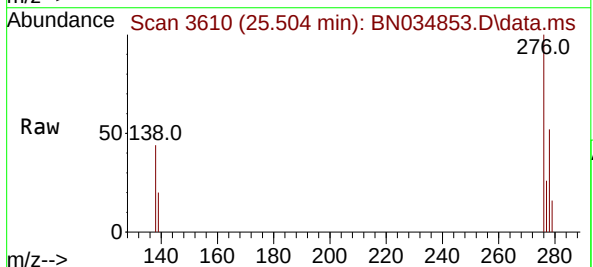
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

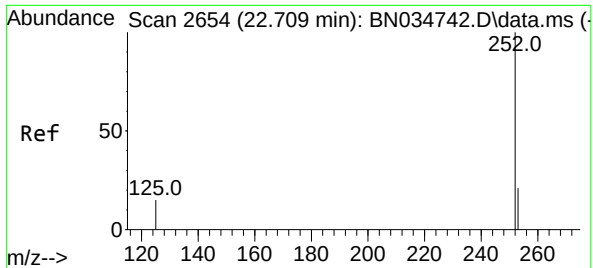
Tgt Ion:264 Resp: 7135
Ion Ratio Lower Upper
264 100
260 28.2 21.5 32.3
265 80.6 47.5 71.3#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.436 ng
RT: 25.504 min Scan# 3610
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:276 Resp: 11454
Ion Ratio Lower Upper
276 100
138 45.1 31.5 47.3
277 23.9 19.7 29.5

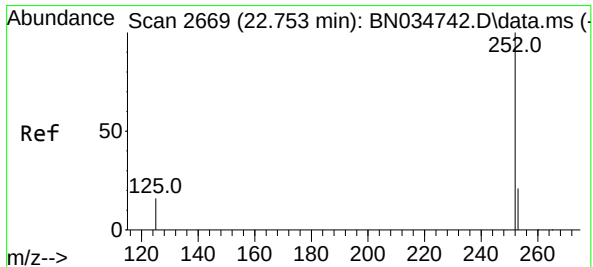
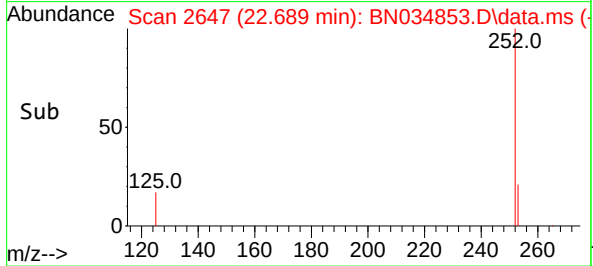
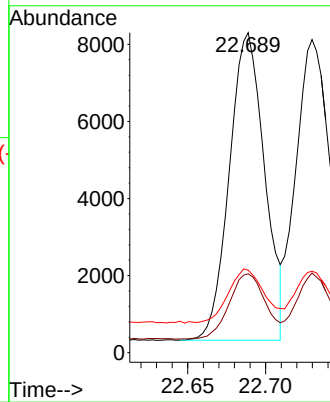
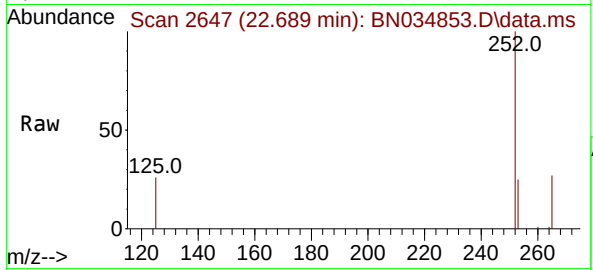




#37
Benzo(b)fluoranthene
Concen: 0.437 ng
RT: 22.689 min Scan# 2647
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

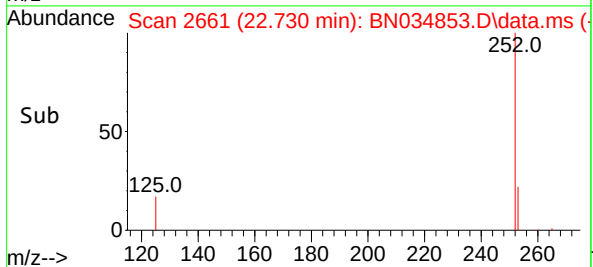
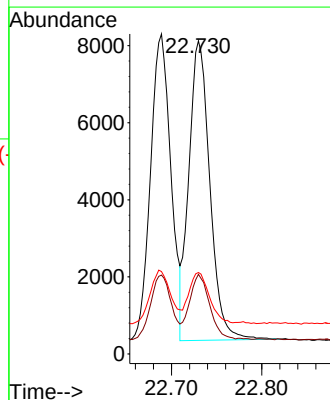
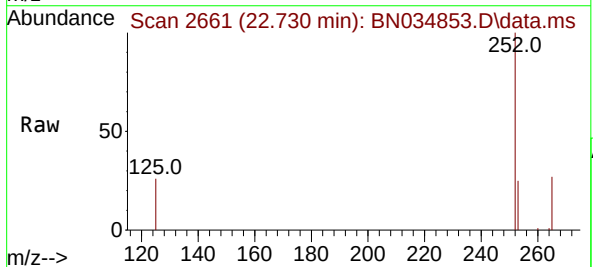
Instrument :
BNA_N
ClientSampleId :
PB164511BSD

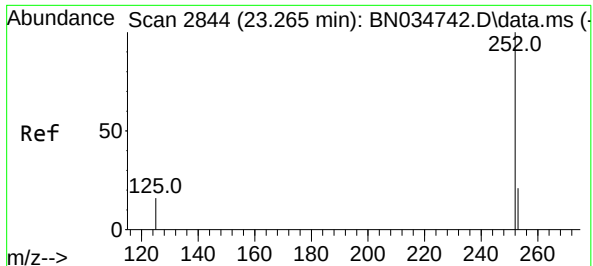
Tgt Ion:252 Resp: 12554
Ion Ratio Lower Upper
252 100
253 24.6 19.7 29.5
125 25.8 17.1 25.7#



#38
Benzo(k)fluoranthene
Concen: 0.448 ng
RT: 22.730 min Scan# 2661
Delta R.T. -0.000 min
Lab File: BN034853.D
Acq: 04 Nov 2024 23:21

Tgt Ion:252 Resp: 12552
Ion Ratio Lower Upper
252 100
253 25.4 19.8 29.6
125 26.0 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.421 ng

RT: 23.241 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN034853.D

Acq: 04 Nov 2024 23:21

Instrument :

BNA_N

ClientSampleId :

PB164511BSD

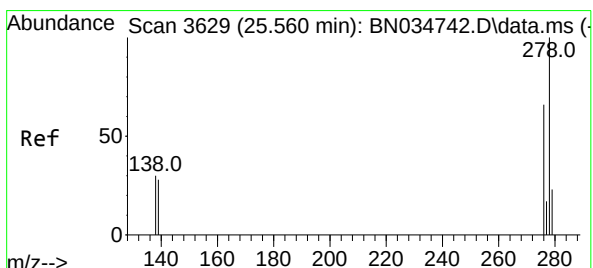
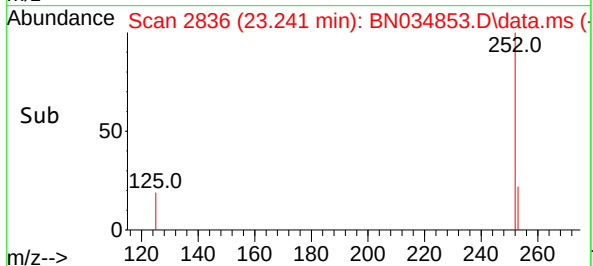
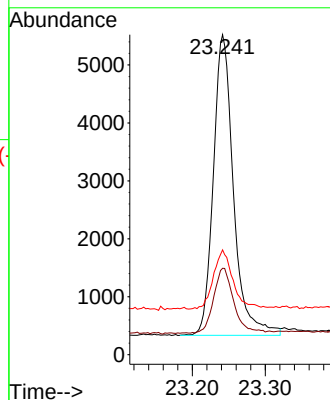
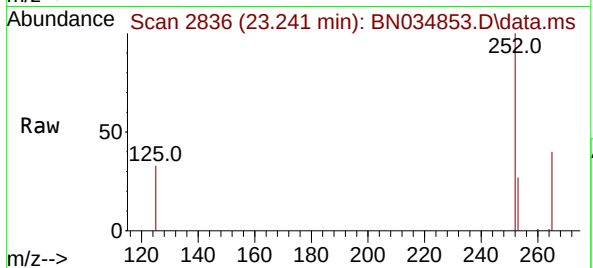
Tgt Ion:252 Resp: 9977

Ion Ratio Lower Upper

252 100

253 27.0 20.7 31.1

125 32.7 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.425 ng

RT: 25.522 min Scan# 3616

Delta R.T. -0.003 min

Lab File: BN034853.D

Acq: 04 Nov 2024 23:21

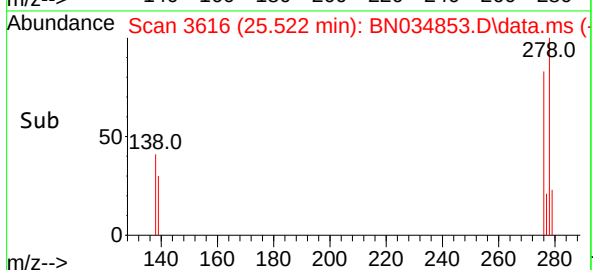
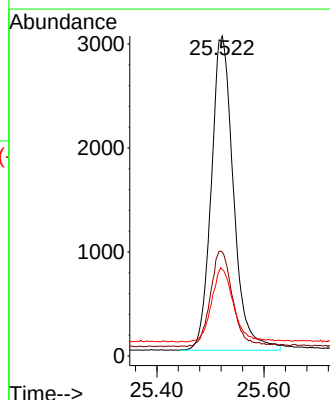
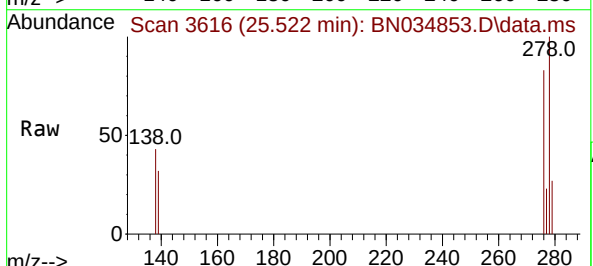
Tgt Ion:278 Resp: 8691

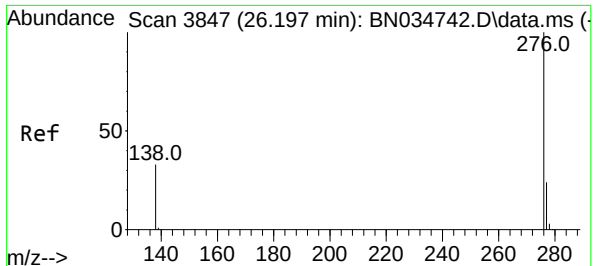
Ion Ratio Lower Upper

278 100

139 32.4 24.9 37.3

279 27.0 21.0 31.4





#41

Benzo(g,h,i)perylene

Concen: 0.423 ng

RT: 26.159 min Scan# 3847

Delta R.T. -0.006 min

Lab File: BN034853.D

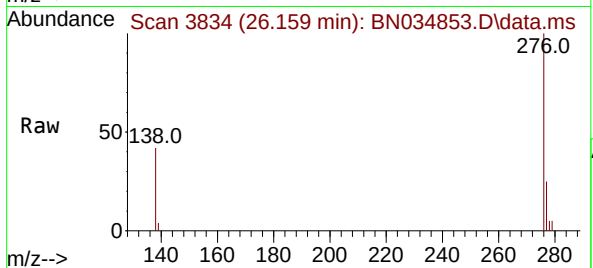
Acq: 04 Nov 2024 23:21

Instrument :

BNA_N

ClientSampleId :

PB164511BSD



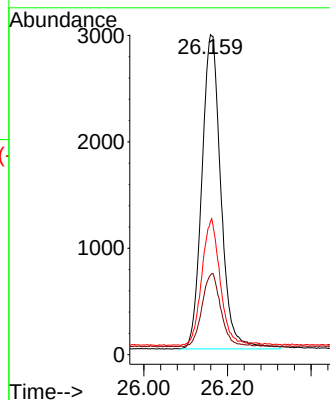
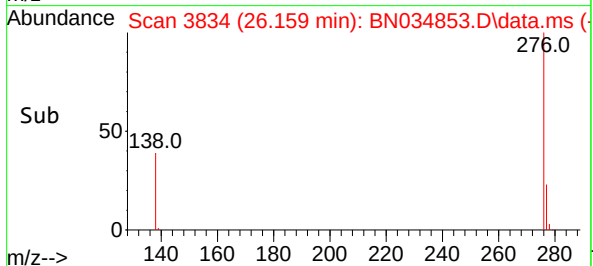
Tgt Ion:276 Resp: 9347

Ion Ratio Lower Upper

276 100

277 24.9 20.2 30.2

138 41.6 28.7 43.1





Manual Integration Report

Sequence:	BN103024	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Manual Integration Report

Sequence:	BN110424	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN034837.D	Bis(2-ethylhexyl)phthalate	Jagrut	11/5/2024 4:18:00 PM	mohammad	11/6/2024 3:14:45 AM	Peak Integrated by Software
SSTDCCC0.4	BN034861.D	Benzo(k)fluoranthene	Jagrut	11/5/2024 4:18:09 PM	mohammad	11/6/2024 3:14:45 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN103024

Review By	yogesh	Review On	11/4/2024 1:33:07 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:10 AM
SubDirectory	BN103024	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn103024
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	BN034739.D	30 Oct 2024 08:41	RC/JU	Ok
2	SSTDICC0.1	BN034740.D	30 Oct 2024 09:20	RC/JU	Ok
3	SSTDICC0.2	BN034741.D	30 Oct 2024 09:56	RC/JU	Ok
4	SSTDICCC0.4	BN034742.D	30 Oct 2024 10:32	RC/JU	Ok
5	SSTDICC0.8	BN034743.D	30 Oct 2024 11:08	RC/JU	Ok
6	SSTDICC1.6	BN034744.D	30 Oct 2024 11:44	RC/JU	Ok
7	SSTDICC3.2	BN034745.D	30 Oct 2024 12:20	RC/JU	Ok
8	SSTDICC5.0	BN034746.D	30 Oct 2024 12:56	RC/JU	Ok
9	SSTDICV0.4	BN034747.D	30 Oct 2024 15:21	RC/JU	Ok
10	PB164323BL	BN034748.D	30 Oct 2024 15:57	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn103024
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	BN034836.D	04 Nov 2024 09:30	RC/JU	Ok
2	SSTDCCC0.4	BN034837.D	04 Nov 2024 10:45	RC/JU	Ok,M
3	PB164594BL	BN034838.D	04 Nov 2024 11:21	RC/JU	Ok
4	P4652-01	BN034839.D	04 Nov 2024 14:55	RC/JU	Dilution
5	P4652-02	BN034840.D	04 Nov 2024 15:31	RC/JU	Ok,M
6	P4652-03	BN034841.D	04 Nov 2024 16:07	RC/JU	Ok
7	P4652-01DL	BN034842.D	04 Nov 2024 16:43	RC/JU	Not Ok
8	P4652-05	BN034843.D	04 Nov 2024 17:19	RC/JU	Ok
9	P4652-06	BN034844.D	04 Nov 2024 17:54	RC/JU	Ok
10	P4652-01DL	BN034845.D	04 Nov 2024 18:30	RC/JU	Ok
11	P4665-05	BN034846.D	04 Nov 2024 19:06	RC/JU	Ok
12	P4665-07	BN034847.D	04 Nov 2024 19:42	RC/JU	Ok
13	SSTDCCC0.4	BN034848.D	04 Nov 2024 20:18	RC/JU	Ok
14	DFTPP	BN034849.D	04 Nov 2024 20:54	RC/JU	Ok
15	SSTDCCC0.4	BN034850.D	04 Nov 2024 21:33	RC/JU	Ok
16	PB164511BL	BN034851.D	04 Nov 2024 22:09	RC/JU	Ok
17	PB164511BS	BN034852.D	04 Nov 2024 22:45	RC/JU	Ok
18	PB164511BSD	BN034853.D	04 Nov 2024 23:21	RC/JU	Ok
19	P4600-03	BN034854.D	04 Nov 2024 23:57	RC/JU	Ok
20	P4600-05	BN034855.D	05 Nov 2024 00:33	RC/JU	Ok
21	P4600-07	BN034856.D	05 Nov 2024 01:09	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn103024
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	P4652-04	BN034857.D	05 Nov 2024 01:45	RC/JU	Dilution
23	P4665-02	BN034858.D	05 Nov 2024 02:21	RC/JU	ReRun
24	PB164594BS	BN034859.D	05 Nov 2024 02:57	RC/JU	Ok
25	PB164594BSD	BN034860.D	05 Nov 2024 03:33	RC/JU	Ok
26	SSTDCCC0.4	BN034861.D	05 Nov 2024 04:09	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN103024

Review By	yogesh	Review On	11/4/2024 1:33:07 AM
Supervise By	mohammad	Supervise On	11/4/2024 1:50:10 AM
SubDirectory	BN103024	HP Acquire Method	BNA_N, 8270_HP Processing Method bn103024

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#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN034739.D	30 Oct 2024 08:41		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN034740.D	30 Oct 2024 09:20	Compound#20 removed from 0.1 ppm	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN034741.D	30 Oct 2024 09:56		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN034742.D	30 Oct 2024 10:32	Compound#20 Kept on LR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN034743.D	30 Oct 2024 11:08	The Calibration is Good For DOD	RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN034744.D	30 Oct 2024 11:44		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN034745.D	30 Oct 2024 12:20		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN034746.D	30 Oct 2024 12:56		RC/JU	Ok
9	SSTDICV0.4	ICVBN103024	BN034747.D	30 Oct 2024 15:21		RC/JU	Ok
10	PB164323BL	PB164323BL	BN034748.D	30 Oct 2024 15:57	END CCC Missing	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_HP Processing Method bn103024

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	BN034836.D	04 Nov 2024 09:30		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN034837.D	04 Nov 2024 10:45		RC/JU	Ok,M
3	PB164594BL	PB164594BL	BN034838.D	04 Nov 2024 11:21		RC/JU	Ok
4	P4652-01	RW5-SP100-50-202410	BN034839.D	04 Nov 2024 14:55	Need 5X Dilution	RC/JU	Dilution
5	P4652-02	RW5-SP201-50-202410	BN034840.D	04 Nov 2024 15:31		RC/JU	Ok,M
6	P4652-03	RW5-SP301-303-50-20	BN034841.D	04 Nov 2024 16:07		RC/JU	Ok
7	P4652-01DL	RW5-SP100-50-202410	BN034842.D	04 Nov 2024 16:43	Internal Standard spiking error	RC/JU	Not Ok
8	P4652-05	RW5-SP201-90-202410	BN034843.D	04 Nov 2024 17:19		RC/JU	Ok
9	P4652-06	RW5-SP301-303-90-20	BN034844.D	04 Nov 2024 17:54		RC/JU	Ok
10	P4652-01DL	RW5-SP100-50-202410	BN034845.D	04 Nov 2024 18:30		RC/JU	Ok
11	P4665-05	BP-VPB-190-GW-558-5	BN034846.D	04 Nov 2024 19:06		RC/JU	Ok
12	P4665-07	BP-VPB-190-GW-598-6	BN034847.D	04 Nov 2024 19:42		RC/JU	Ok
13	SSTDCCC0.4	SSTDCCC0.4EC	BN034848.D	04 Nov 2024 20:18		RC/JU	Ok
14	DFTPP	DFTPP	BN034849.D	04 Nov 2024 20:54		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4	BN034850.D	04 Nov 2024 21:33		RC/JU	Ok
16	PB164511BL	PB164511BL	BN034851.D	04 Nov 2024 22:09		RC/JU	Ok
17	PB164511BS	PB164511BS	BN034852.D	04 Nov 2024 22:45		RC/JU	Ok
18	PB164511BSD	PB164511BSD	BN034853.D	04 Nov 2024 23:21		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN110424

Review By	Jagrut	Review On	11/5/2024 4:35:19 PM
Supervise By	mohammad	Supervise On	11/6/2024 3:14:45 AM
SubDirectory	BN110424	HP Acquire Method	BNA_N, 8270_HP Processing Method bn103024
STD. NAME	STD REF.#		
Tune/Reschk	SP6573		
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597		
CCC	SP6601		
Internal Standard/PEM	SP6527		
ICV/I.BLK	SP6548		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4600-03	BP-VPB-190-GW-438-4	BN034854.D	04 Nov 2024 23:57		RC/JU	Ok
20	P4600-05	BP-VPB-190-GW-478-4	BN034855.D	05 Nov 2024 00:33		RC/JU	Ok
21	P4600-07	BP-VPB-190-GW-518-5	BN034856.D	05 Nov 2024 01:09		RC/JU	Ok
22	P4652-04	RW5-SP100-90-202410	BN034857.D	05 Nov 2024 01:45	Need 5X Dilution	RC/JU	Dilution
23	P4665-02	VPB190-HYD-2024103	BN034858.D	05 Nov 2024 02:21	Surrogate Fail	RC/JU	ReRun
24	PB164594BS	PB164594BS	BN034859.D	05 Nov 2024 02:57		RC/JU	Ok
25	PB164594BSD	PB164594BSD	BN034860.D	05 Nov 2024 03:33		RC/JU	Ok
26	SSTDCCC0.4	SSTDCCC0.4EC	BN034861.D	05 Nov 2024 04:09		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 10/29/2024

Extraction Start Time : 12:50

Extraction End Date : 10/29/2024

Extraction End Time : 17:45

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6636
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	E3817
Baked Na2SO4	N/A	EP2554
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted <2 with 1:1 H2SO4 & >11 with 10 N NaOH.

KD Bath ID: Water bath -01

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/29/24	RP (Ext Lab)	RC/SVOC
17:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 10/29/2024

Sample ID	Client Sample ID	Test	g / ml	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164511BL	SBLK511	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			SEP-01
PB164511BS	SLCS511	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			2
PB164511BS D	SLCSD511	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			3
P4600-03	BP-VPB-190-GW-438-440	SVOC-SIMGrou p1	800	6	ritesh	rajesh	1	C		4
P4600-05	BP-VPB-190-GW-478-480	SVOC-SIMGrou p1	820	6	ritesh	rajesh	1	C		5
P4600-07	BP-VPB-190-GW-518-520	SVOC-SIMGrou p1	830	6	ritesh	rajesh	1	C		6

* Extracts relinquished on the same date as received.

[Signature]
10/29/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4600

WorkList ID : 184911

Department : Extraction

Date : 10-29-2024 12:48:52

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4600-03	BP-VPB-190-GW-438-440	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K63	10/25/2024	8270-Modified
P4600-05	BP-VPB-190-GW-478-480	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K63	10/25/2024	8270-Modified
P4600-07	BP-VPB-190-GW-518-520	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	K63	10/25/2024	8270-Modified

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

10/29/24
10/29/24

12:50

RP (Ext 1 us)

RP (Ext 1 us)

Date/Time

Raw Sample Received by:

Raw Sample Relinquished by:

10/29/24 13:15

RP (Ext 1 us)

RP (Ext 1 us)

Prep Standard - Chemical Standard Summary

Order ID : P4600
Test : SVOC-SIMGroup1
Prepbatch ID : PB164511,
Sequence ID/Qc Batch ID: BN110424,

Standard ID :
EP2548,EP2550,EP2554,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6636,

Chemical ID :
E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3817,M5178,S10103,S10247,S10782,S10977,S 11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2548	10/16/2024	04/16/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 10/16/2024

FROM 1000.00000ml of W3112 + 4000.00000ml of M5178 = 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>
1874	10 N SODIUM HYDROXIDE SOLN	EP2550	10/16/2024	04/16/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 10/16/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2554	10/26/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Rajesh Parikh 10/26/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed
SOURCE FROM 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml								

<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
SOURCE FROM 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = 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>
3895	50 ug/ml DFTTP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel
								07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel
								08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = Final Quantity: 25.000 ml

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed
								08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6636	10/04/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024
FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3788 = Final Quantity: 100.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	23H1462005	04/23/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24H2762011	04/09/2025	10/09/2024 / Rajesh	10/09/2024 / Rajesh	E3817

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	03/29/2026	05/25/2022 / william	04/05/2022 / william	M5178

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	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	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

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	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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

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(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

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

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Receivalon
02/07/23 by CG

Sheet 511096
to
511099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

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

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

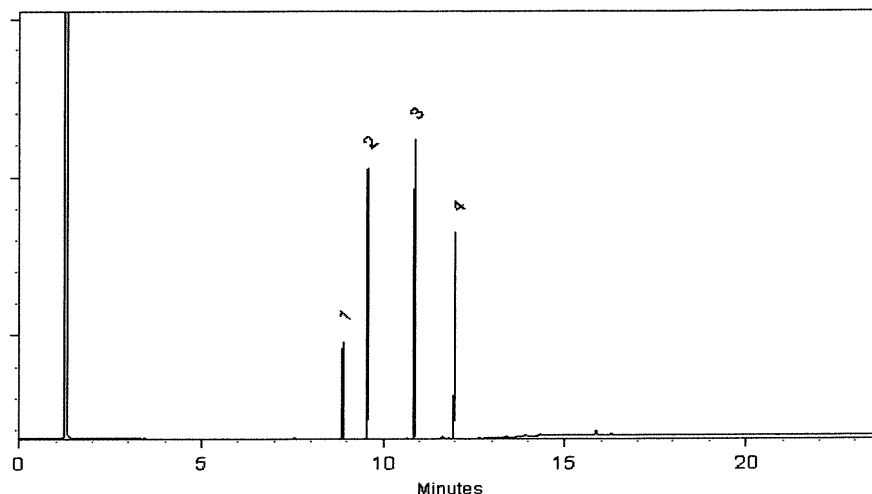
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

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Received on
09/07/22
by
CG
S10778
to
S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Methylnaphthalene-d10 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:

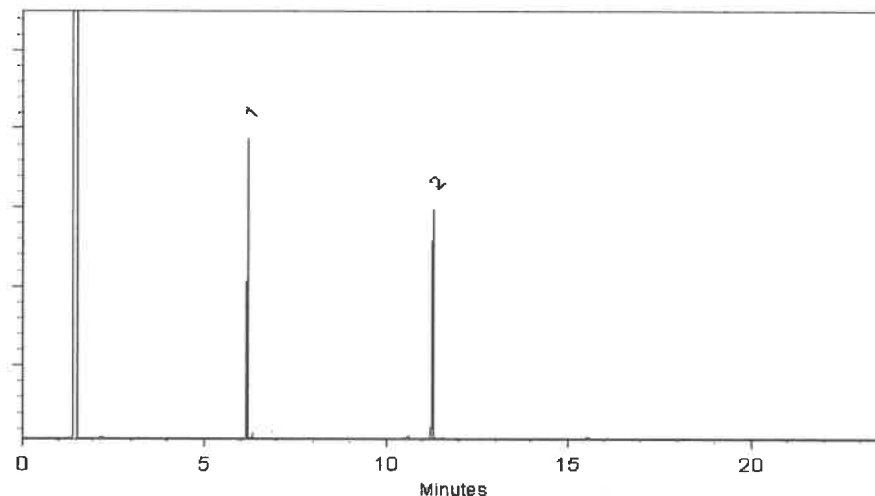
250°C

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

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 13-Jun-2022

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Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL 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:

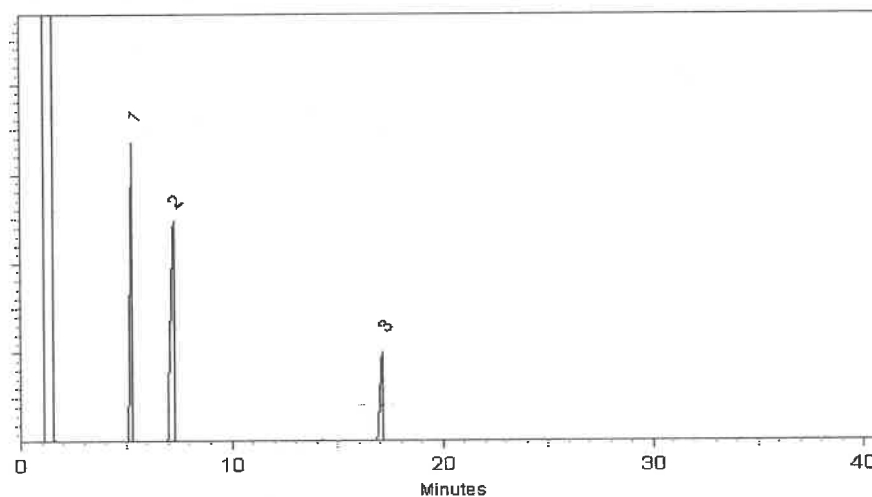
250°C

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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Received by
CG on
12/28/22
\$10981
to
\$11010

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL 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)

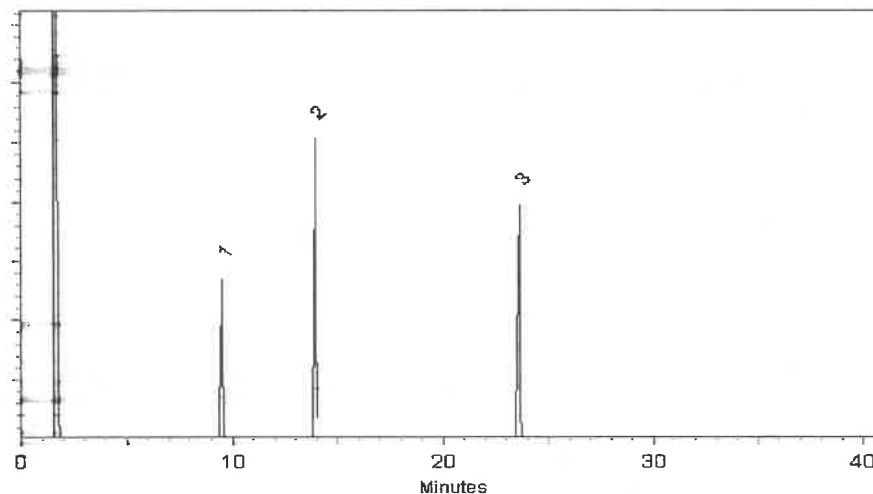
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

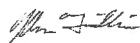
Inj. Temp:
250°C

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

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gravimetric



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Catalog No. : 555872 **Lot No.:** A0193449
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : January 31, 2026 **Storage:** 10°C or colder
Ship: Ambient

Received on
01/13/23
by
CG
S11011
+0
S11015

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Jan-2023

Balance: B442140311

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

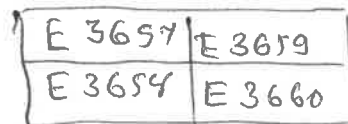
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 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)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: 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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	< 0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700

Page 1 of 1

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 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	0.1 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: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date: 2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3817

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



5580 Skylane Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

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
7.6
0911

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

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:

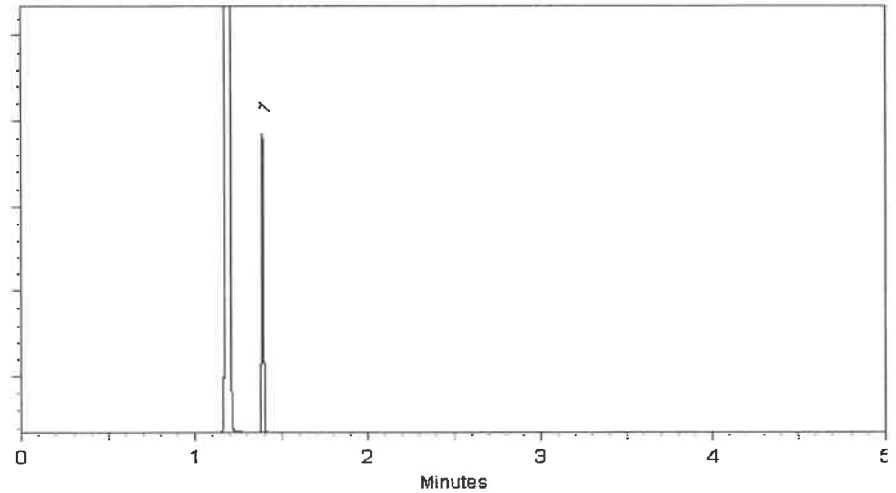
FID

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. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

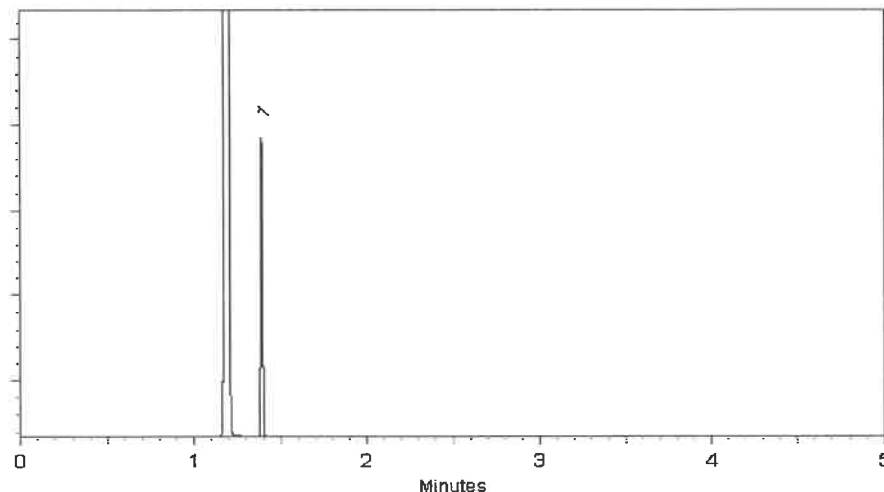
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** 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:

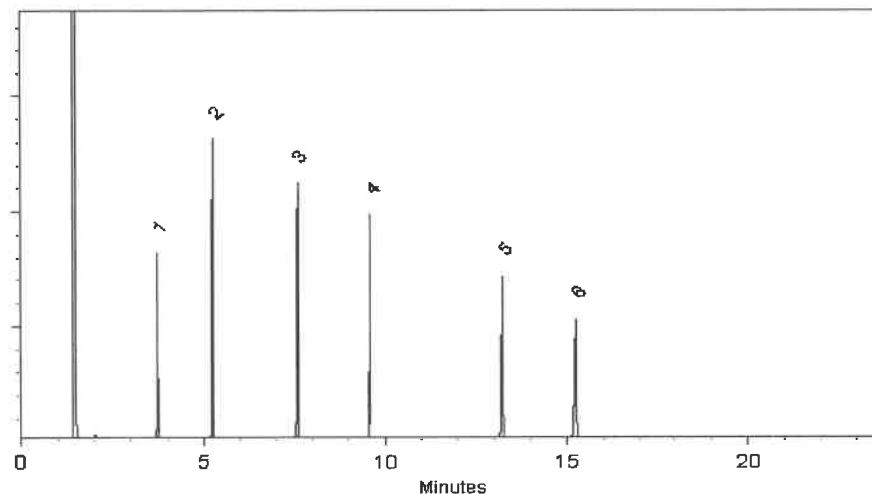
FID

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
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Certificate #FM 80397



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079 } RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

512082 } RC/
↓
512111 } 02/22/24

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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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
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Certificate #FM 80397

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024

Balance: B345965662



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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chromatographic plus



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Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



SHIPPING DOCUMENTS

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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: P4600										
				COC Number:										
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION										
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT PO#										
ADDRESS: 4433 Corporation Lane Suite 300		PROJECT #: 112G08005-WE13 LOCATION: VPB-189		ADDRESS:										
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:										
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetrattech.com		ATTENTION: PHONE:										
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148												
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS										
FAX: _____ 2 & 10 _____ DAYS* HARD COPY: _____ 2 & 10 _____ DAYS* EDD _____ 2 & 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		VOC (SW846-8260B) 1,4 Dioxane (8270 SIM) <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="width: 20px;">1</td><td style="width: 20px;">2</td><td style="width: 20px;">3</td><td style="width: 20px;">4</td><td style="width: 20px;">5</td><td style="width: 20px;">6</td><td style="width: 20px;">7</td><td style="width: 20px;">8</td><td style="width: 20px;">9</td> </tr> </table>		1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9						
				PRESERVATIVES										
				COMMENTS										
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP GRAB	SAMPLE COLLECTION DATE TIME	# of Bottles									
1.	BP-VPB-190-TB-20241025	QA		10/25/24 8:00	2									
2.	BP-VPB-190-DUP-20241025	QA		10/25/24 12:00	2									
3.	BP-VPB-190-GW-438-440	AQ		10/25/24 10:00	3									
4.	BP-VPB-190-GW-458-460	AQ		10/25/24 12:15	2									
5.	BP-VPB-190-GW-478-480	AQ		10/25/24 14:35	3									
6.	BP-VPB-190-GW-498-500	AQ		10/28/24 11:50	2									
7.	BP-VPB-190-GW-518-520	AQ		10/28/24 14:05	3									
8.														
9.														
10.														

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.7°C MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: _____ Comments: 48hr TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list 10-DAY TAT - For 1,4 Dioxane (8270 SIM)		
	10/28/24 15:15				
RELINQUISHED BY	DATE/TIME	RECEIVED BY	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight		
	10-28-24 1810	RECEIVED FOR LAB BY			
Page <u>1</u> of <u>1</u>			Shipment Complete ☐ YES ☐ NO		

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4600	TETR06	Order Date : 10/29/2024 10:17:00 AM	Project Name :
Client Name : Tetra Tech NUS, Inc.		Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 10/29/2024 6:10:00 PM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order : 10/28/2024	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4600-01	BP-VPB-190-TB-20241025	Water	10/25/2024	08:00	VOCMS Group1		8260-Low	2 Bus. Days	
P4600-02	BP-VPB-190-DUP-20241025	Water	10/25/2024	12:00	VOCMS Group1		8260-Low	2 Bus. Days	
P4600-03	BP-VPB-190-GW-438-440	Water	10/25/2024	10:00	VOCMS Group1		8260-Low	2 Bus. Days	
P4600-04	BP-VPB-190-GW-458-460	Water	10/25/2024	12:15	VOCMS Group1		8260-Low	2 Bus. Days	
P4600-05	BP-VPB-190-GW-478-480	Water	10/25/2024	14:35	VOCMS Group1		8260-Low	2 Bus. Days	
P4600-06	BP-VPB-190-GW-498-500	Water	10/25/2024	11:50	VOCMS Group1		8260-Low	2 Bus. Days	
P4600-07	BP-VPB-190-GW-518-520	Water	10/25/2024	14:05	VOCMS Group1		8260-Low	2 Bus. Days	



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4600 TETR06

Client Name : Tetra Tech NUS, Inc.

Client Contact : Ernie Wu

Invoice Name : Tetra Tech NUS, Inc.

Invoice Contact : Ernie Wu

Order Date : 10/29/2024 10:17:00 AM

Project Name : CTO WE13

Receive DateTime : 10/29/2024 6:10:00 PM
10/28/2024

Purchase Order :

Project Mgr :

Report Type : Level 4

EDD Type : ADAPT

Hard Copy Date :

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By : [Signature]

Date / Time : 10-29-24 1230

Received By : [Signature]

Date / Time : 10/29/24 12:30

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN110424\
 Data File : BN034861.D
 Acq On : 05 Nov 2024 04:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Nov 05 04:35:52 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 00:03:28 2024
 Response via : Initial Calibration

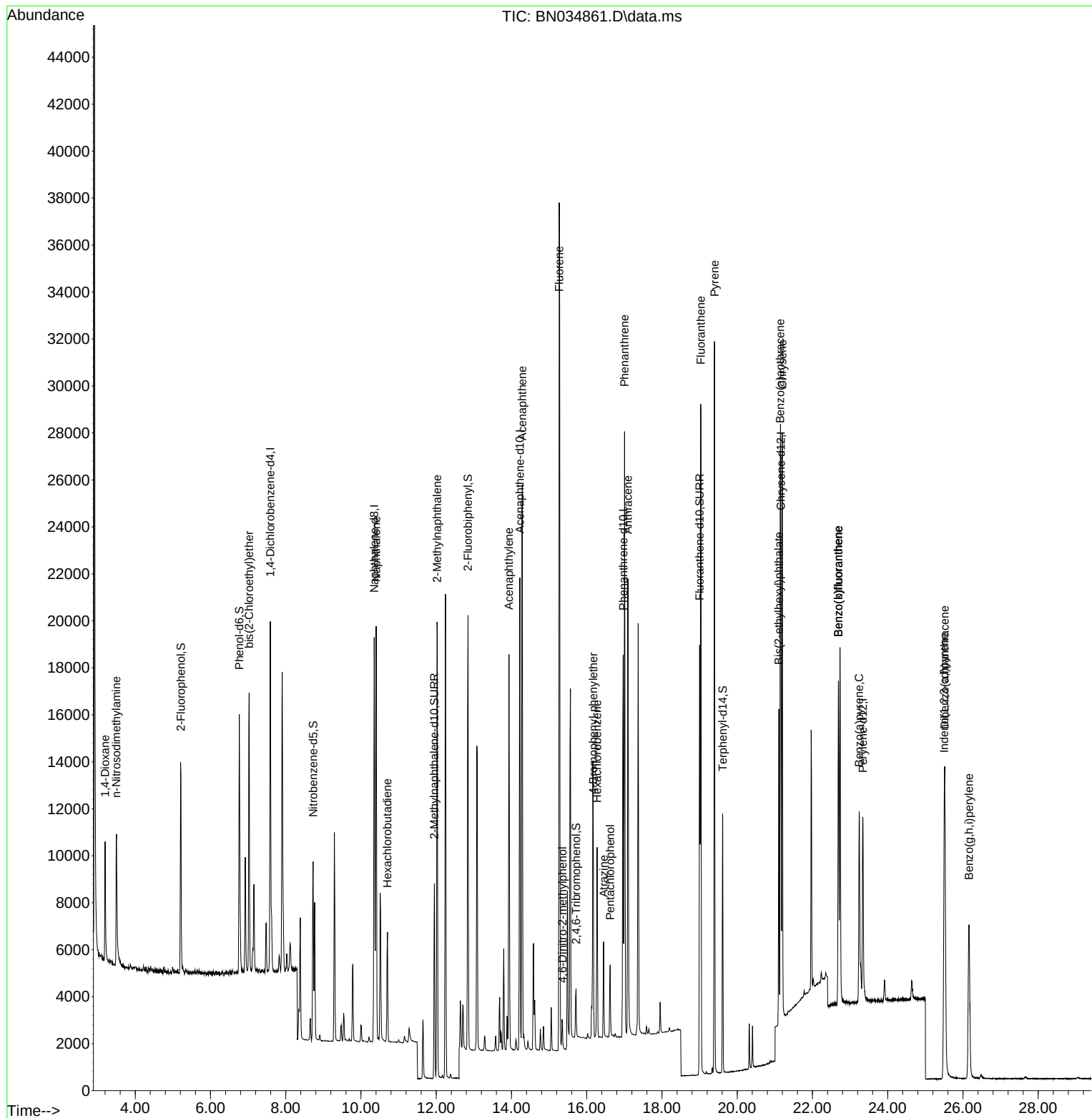
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	6839	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	21431	0.400	ng	0.00
13) Acenaphthene-d10	14.222	164	10867	0.400	ng	0.00
19) Phenanthrene-d10	16.970	188	21411	0.400	ng	0.00
29) Chrysene-d12	21.160	240	12483	0.400	ng	# 0.00
35) Perylene-d12	23.341	264	9733	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	7120	0.344	ng	0.00
5) Phenol-d6	6.766	99	9636	0.358	ng	0.00
8) Nitrobenzene-d5	8.728	82	5987	0.355	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	10849	0.350	ng	0.00
14) 2,4,6-Tribromophenol	15.716	330	1137	0.212	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	15772	0.368	ng	0.00
27) Fluoranthene-d10	19.001	212	17385	0.346	ng	0.00
31) Terphenyl-d14	19.614	244	9173	0.342	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.198	88	3081	0.411	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.494	42	4138	0.490	ng	# 81
6) bis(2-Chloroethyl)ether	7.026	93	8023	0.408	ng	95
9) Naphthalene	10.404	128	22001	0.371	ng	99
10) Hexachlorobutadiene	10.703	225	3576	0.366	ng	# 99
12) 2-Methylnaphthalene	12.026	142	13519	0.349	ng	99
16) Acenaphthylene	13.933	152	17717	0.325	ng	100
17) Acenaphthene	14.286	154	12570	0.346	ng	95
18) Fluorene	15.270	166	15790	0.349	ng	99
20) 4,6-Dinitro-2-methylph...	15.355	198	711	0.353	ng	# 79
21) 4-Bromophenyl-phenylether	16.175	248	4117	0.332	ng	# 91
22) Hexachlorobenzene	16.275	284	5221	0.376	ng	93
23) Atrazine	16.448	200	2930	0.275	ng	96
24) Pentachlorophenol	16.622	266	1399	0.234	ng	96
25) Phenanthrene	17.007	178	24192	0.384	ng	100
26) Anthracene	17.094	178	20428	0.347	ng	100
28) Fluoranthene	19.034	202	25234	0.364	ng	99
30) Pyrene	19.396	202	25452	0.390	ng	100
32) Benzo(a)anthracene	21.142	228	17648	0.355	ng	99
33) Chrysene	21.196	228	19265	0.396	ng	100
34) Bis(2-ethylhexyl)phtha...	21.107	149	11721	0.282	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.501	276	14740	0.412	ng	92
37) Benzo(b)fluoranthene	22.689	252	15905	0.406	ng	96
38) Benzo(k)fluoranthene	22.689	252	15905	0.416	ng	97
39) Benzo(a)pyrene	23.241	252	11941	0.369	ng	# 93
40) Dibenzo(a,h)anthracene	25.516	278	11413	0.409	ng	98
41) Benzo(g,h,i)perylene	26.159	276	12092	0.401	ng	95

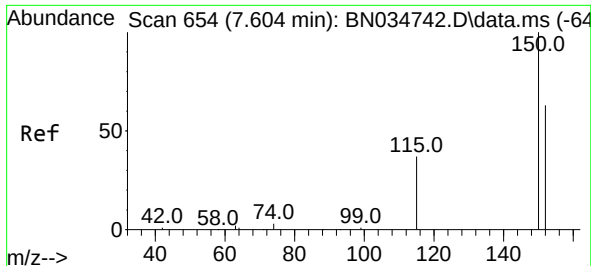
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN034861.D
Acq On : 05 Nov 2024 04:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Nov 05 04:35:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN103024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Nov 05 00:03:28 2024
Response via : Initial Calibration

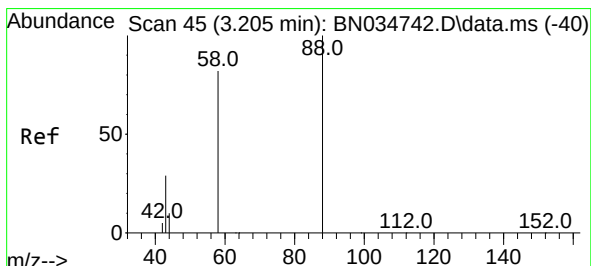
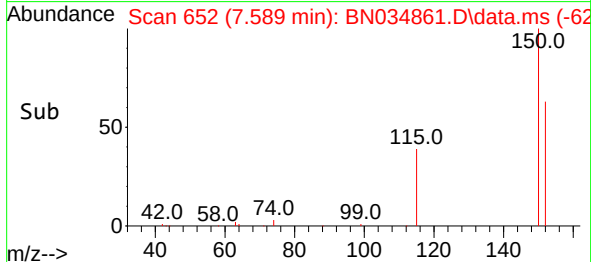
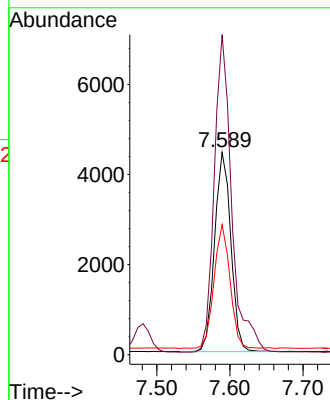
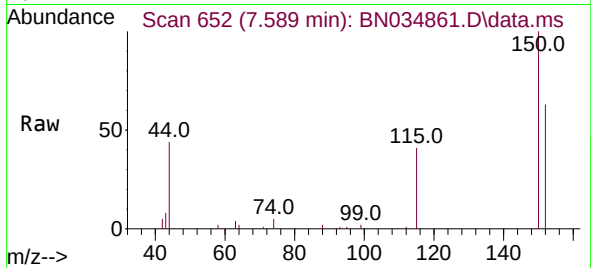




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.589 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

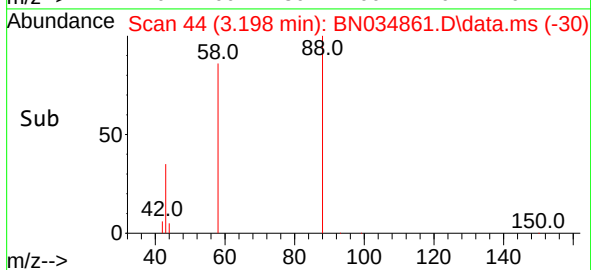
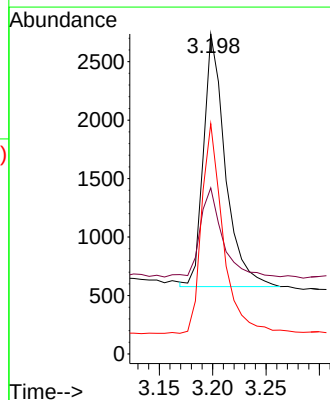
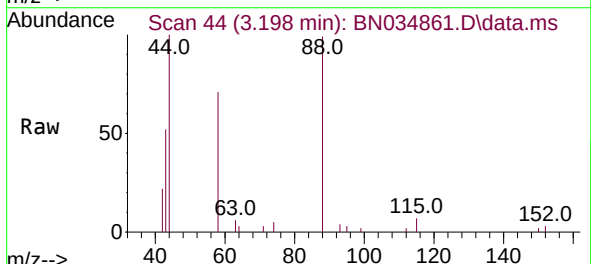
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

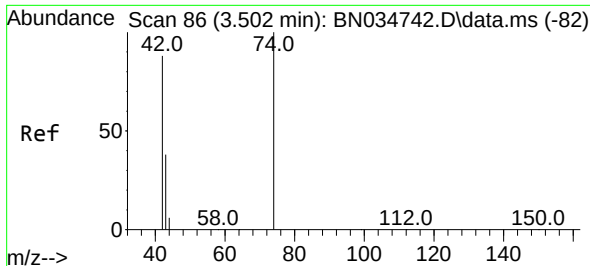
Tgt Ion:152 Resp: 6839
 Ion Ratio Lower Upper
 152 100
 150 158.2 124.9 187.3
 115 64.3 50.2 75.2



#2
 1,4-Dioxane
 Concen: 0.411 ng
 RT: 3.198 min Scan# 44
 Delta R.T. -0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

Tgt Ion: 88 Resp: 3081
 Ion Ratio Lower Upper
 88 100
 43 35.7 26.7 40.1
 58 82.6 59.3 88.9

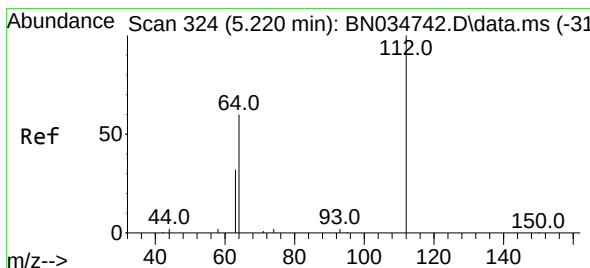
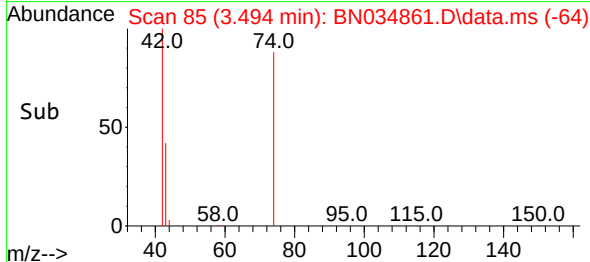
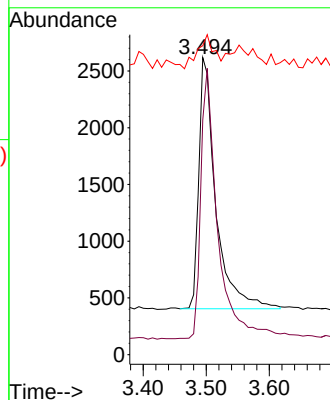
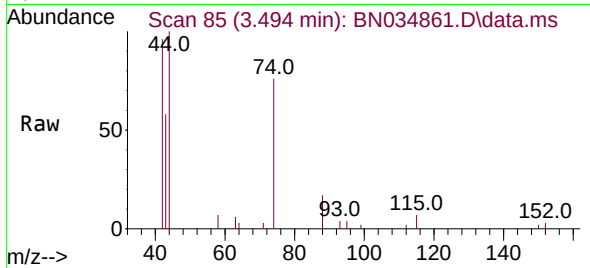




#3
n-Nitrosodimethylamine
Concen: 0.490 ng
RT: 3.494 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

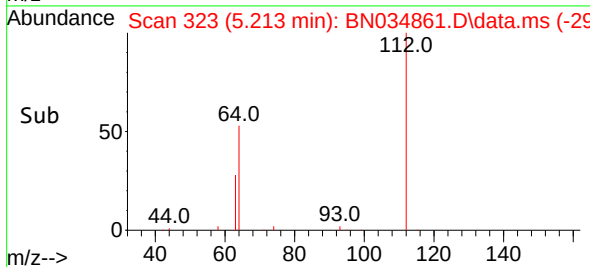
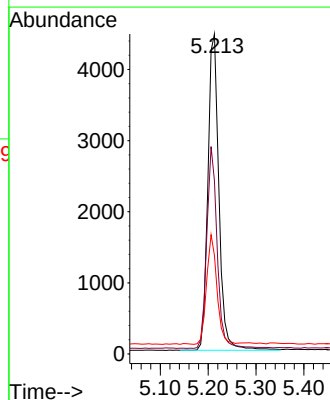
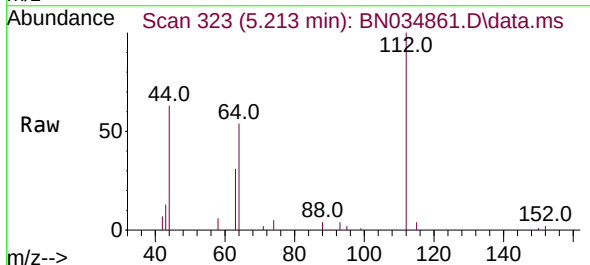
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

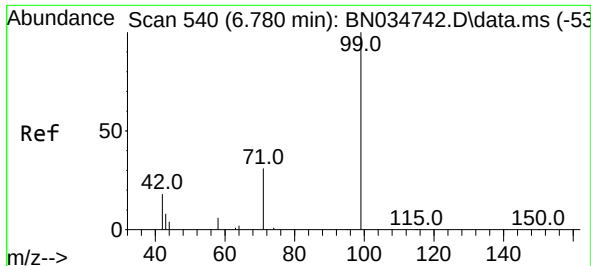
Tgt Ion: 42 Resp: 4138
Ion Ratio Lower Upper
42 100
74 106.6 103.1 154.7
44 12.9 6.7 10.1#



#4
2-Fluorophenol
Concen: 0.344 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion: 112 Resp: 7120
Ion Ratio Lower Upper
112 100
64 60.3 44.9 67.3
63 32.5 23.5 35.3

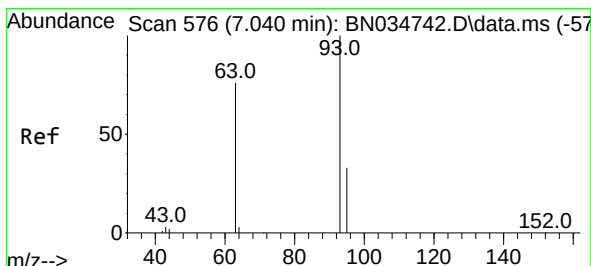
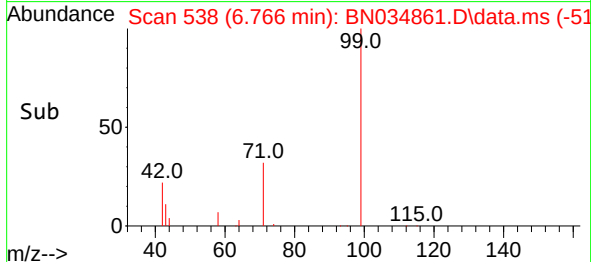
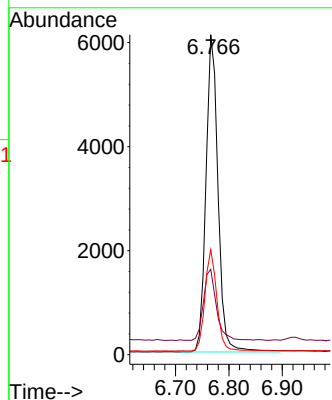
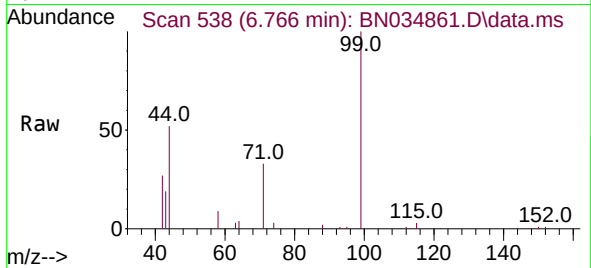




#5
Phenol-d6
Concen: 0.358 ng
RT: 6.766 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

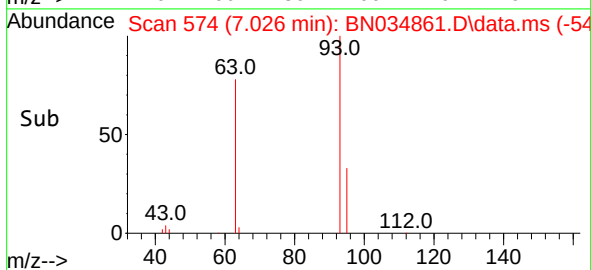
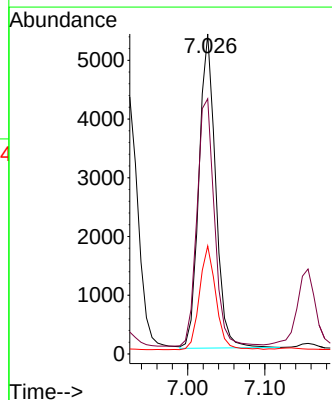
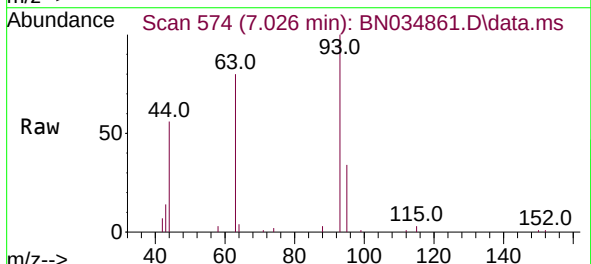
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

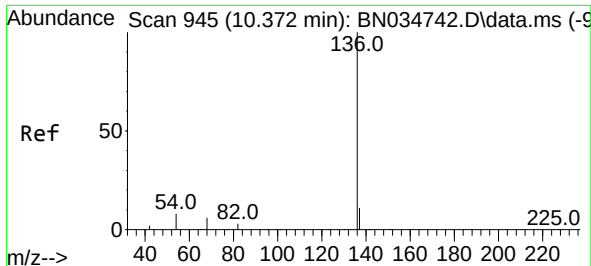
Tgt Ion:	99	Resp:	9636
Ion	Ratio	Lower	Upper
99	100		
42	23.8	15.9	23.9
71	31.9	24.3	36.5



#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.026 min Scan# 574
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:	93	Resp:	8023
Ion	Ratio	Lower	Upper
93	100		
63	82.9	61.2	91.8
95	32.5	25.8	38.8

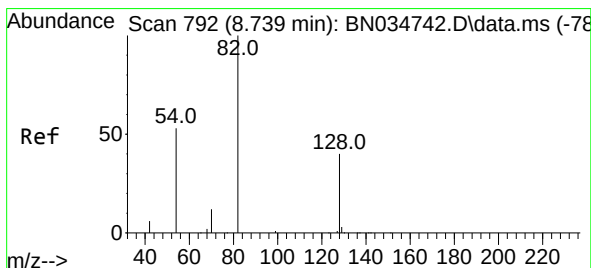
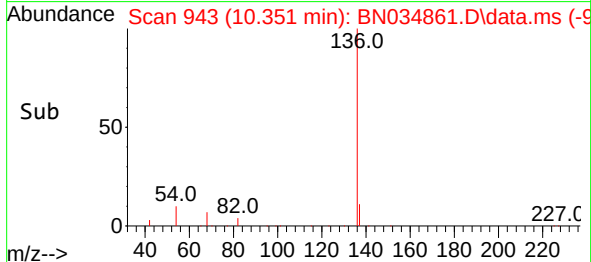
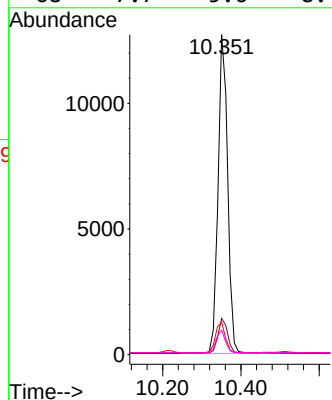
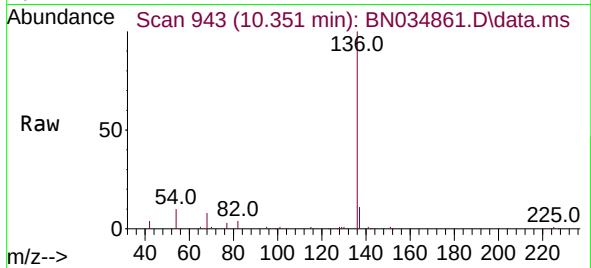




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

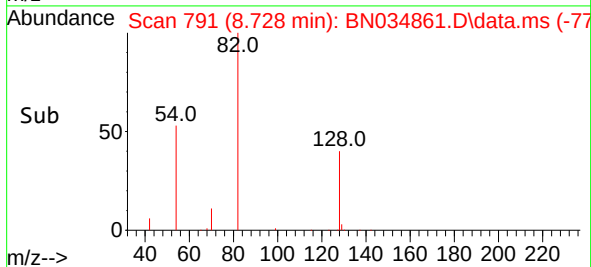
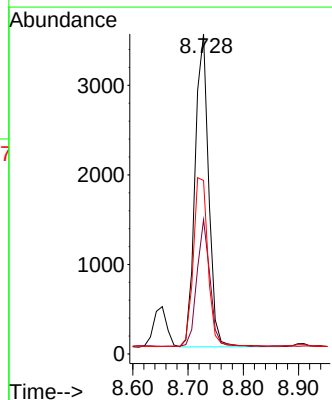
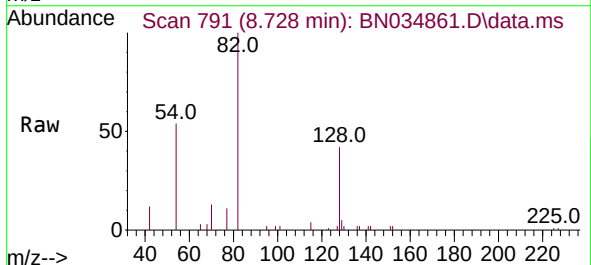
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

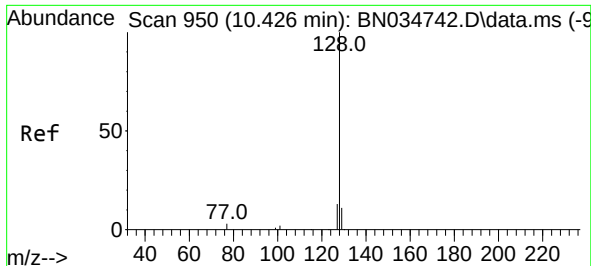
Tgt Ion:	136	Resp:	21431
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.2	13.8
54	10.2	7.0	10.4
68	7.7	5.6	8.4



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:	82	Resp:	5987
Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.7	50.5
54	54.2	44.4	66.6

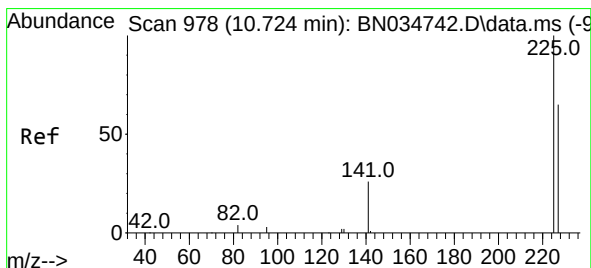
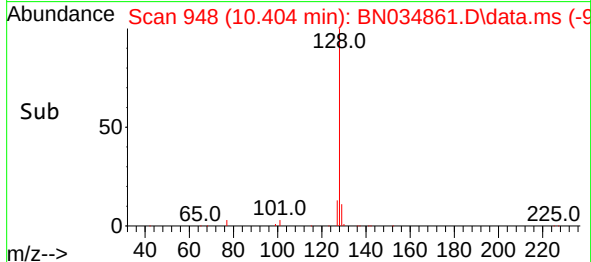
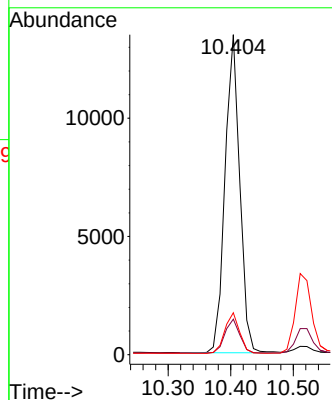
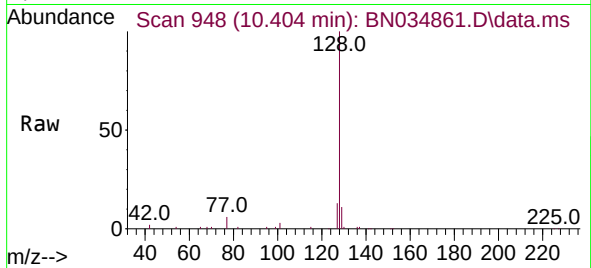




#9
Naphthalene
Concen: 0.371 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

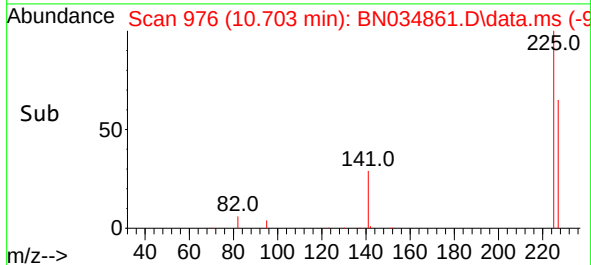
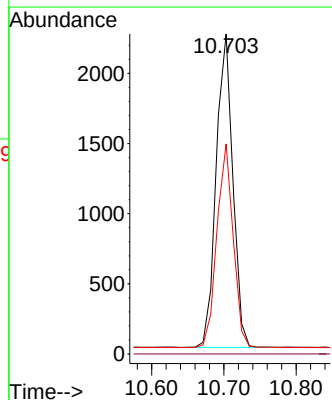
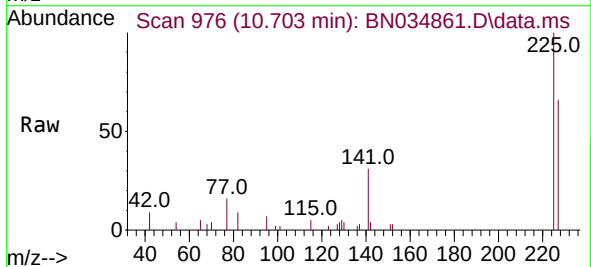
Instrument :
BNA_N
ClientSampleId :
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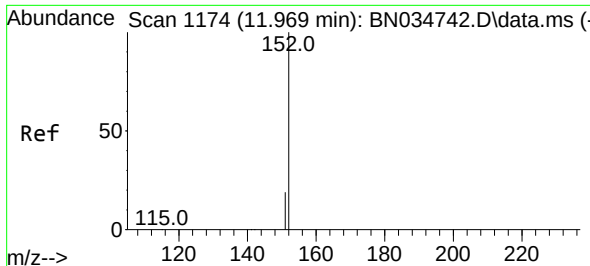
Tgt Ion:128 Resp: 22001
Ion Ratio Lower Upper
128 100
129 11.1 9.4 14.0
127 13.1 10.6 15.8



#10
Hexachlorobutadiene
Concen: 0.366 ng
RT: 10.703 min Scan# 976
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:225 Resp: 3576
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.4 77.2

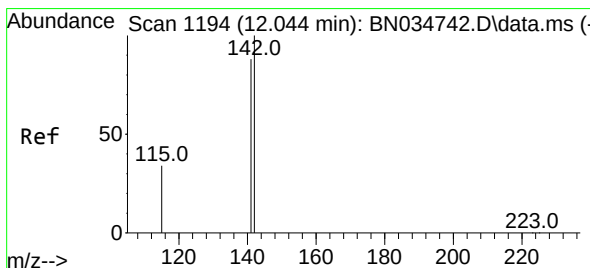
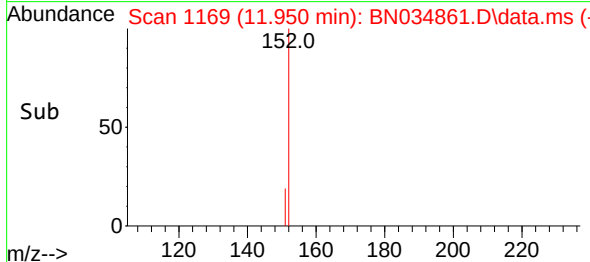
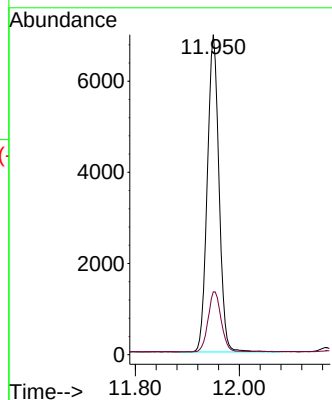
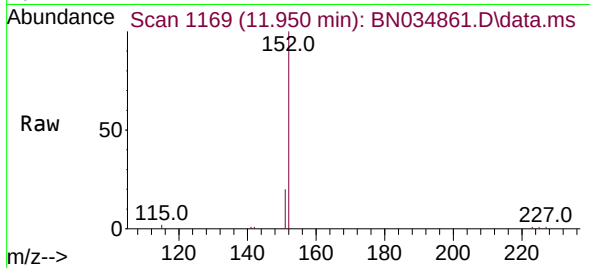




#11
2-Methylnaphthalene-d10
Concen: 0.350 ng
RT: 11.950 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

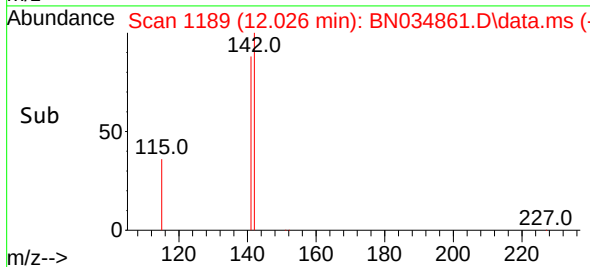
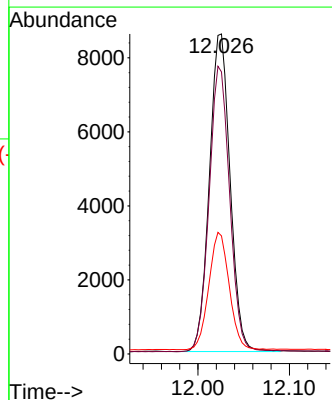
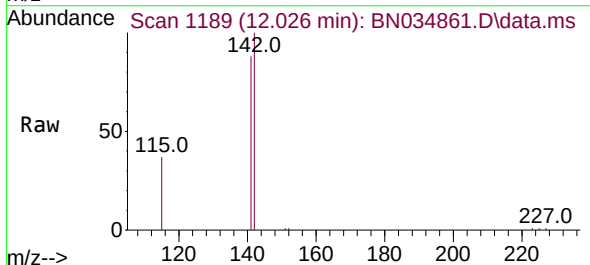
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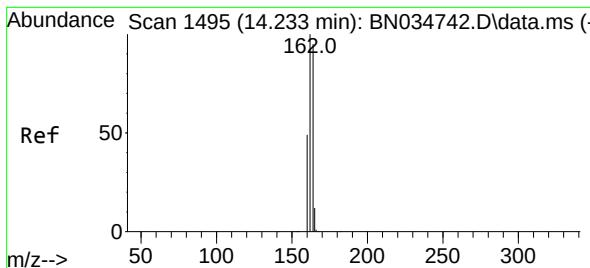
Tgt Ion:152 Resp: 10849
Ion Ratio Lower Upper
152 100
151 21.2 16.6 24.8



#12
2-Methylnaphthalene
Concen: 0.349 ng
RT: 12.026 min Scan# 1189
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:142 Resp: 13519
Ion Ratio Lower Upper
142 100
141 88.2 70.6 106.0
115 36.9 28.6 42.8





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.222 min Scan# 1494

Delta R.T. -0.000 min

Lab File: BN034861.D

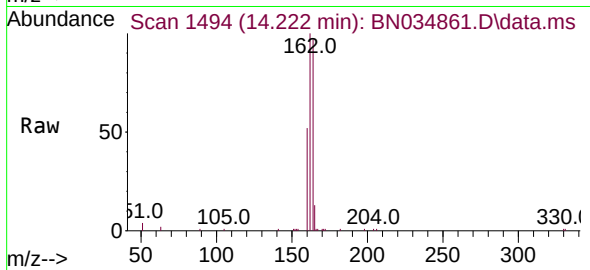
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Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



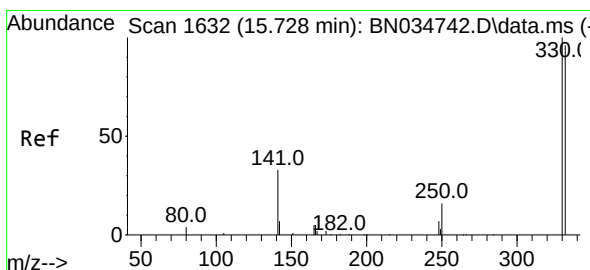
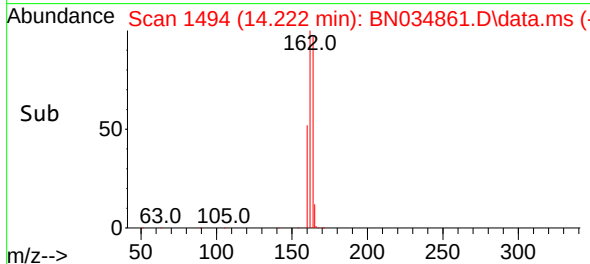
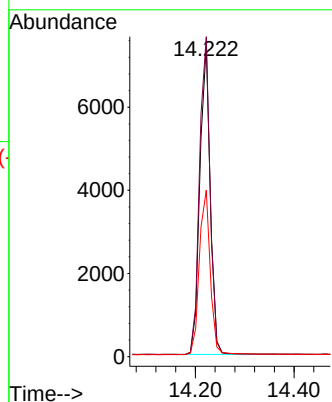
Tgt Ion:164 Resp: 10867

Ion Ratio Lower Upper

164 100

162 102.8 84.3 126.5

160 53.4 41.7 62.5



#14

2,4,6-Tribromophenol

Concen: 0.212 ng

RT: 15.716 min Scan# 1631

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

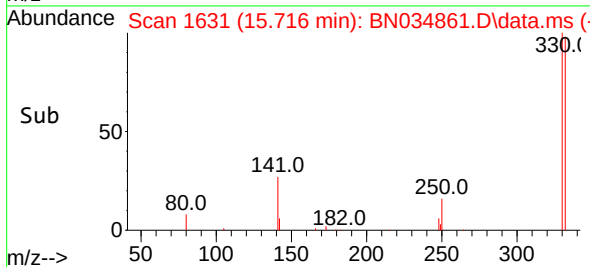
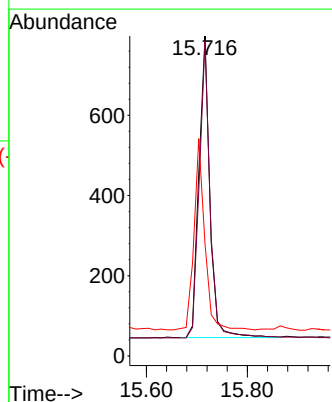
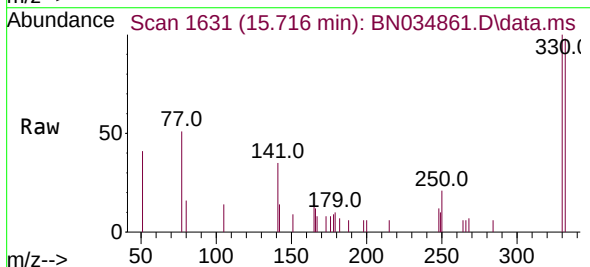
Tgt Ion:330 Resp: 1137

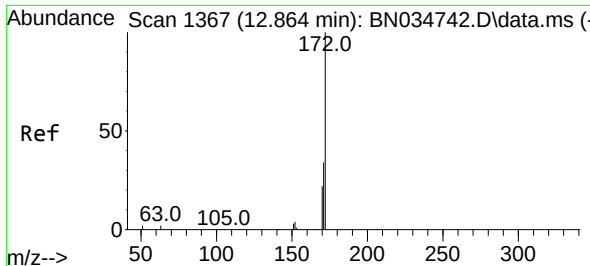
Ion Ratio Lower Upper

330 100

332 97.5 77.8 116.6

141 61.7 41.0 61.4#

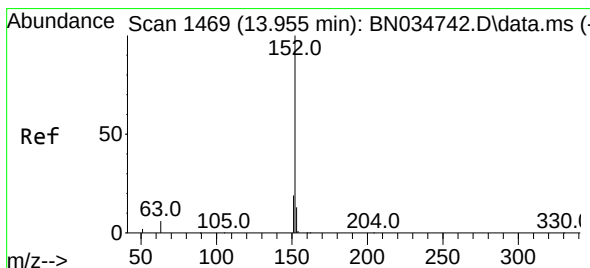
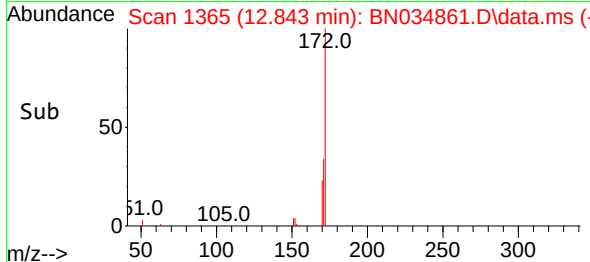
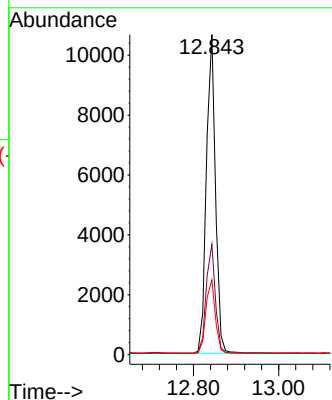
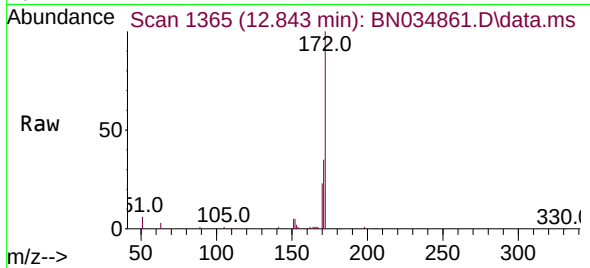




#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

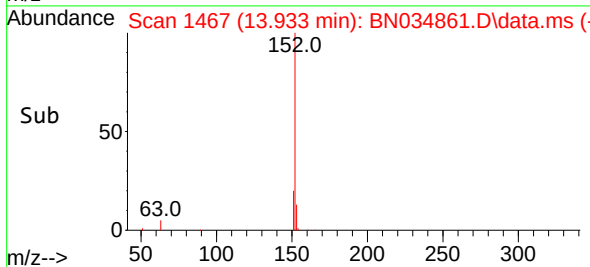
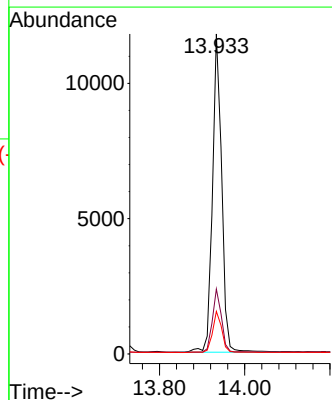
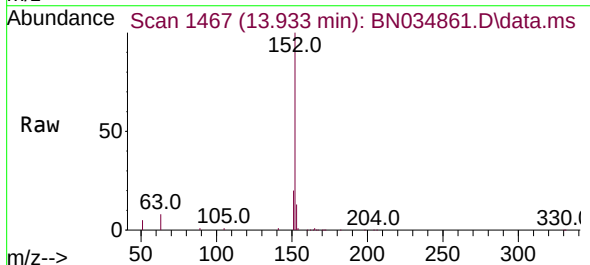
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

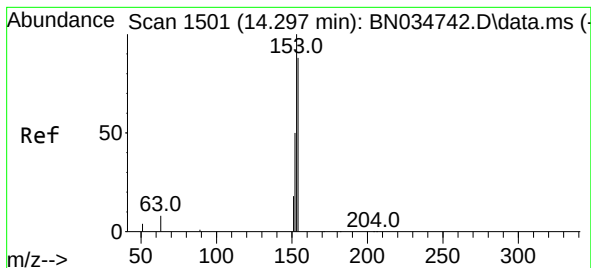
Tgt Ion:172 Resp: 15772
Ion Ratio Lower Upper
172 100
171 34.5 27.2 40.8
170 23.4 18.0 27.0



#16
Acenaphthylene
Concen: 0.325 ng
RT: 13.933 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:152 Resp: 17717
Ion Ratio Lower Upper
152 100
151 19.4 15.4 23.2
153 13.0 10.2 15.4





#17

Acenaphthene

Concen: 0.346 ng

RT: 14.286 min Scan# 1500

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

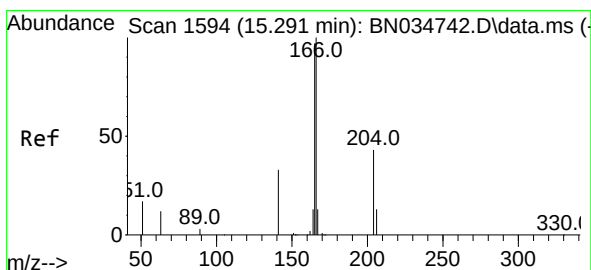
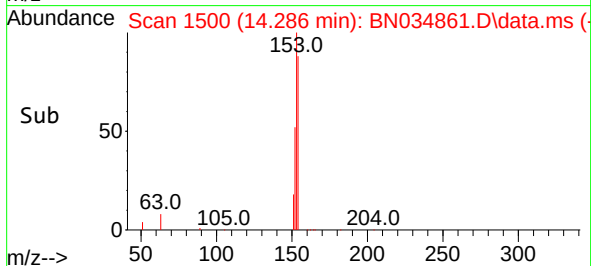
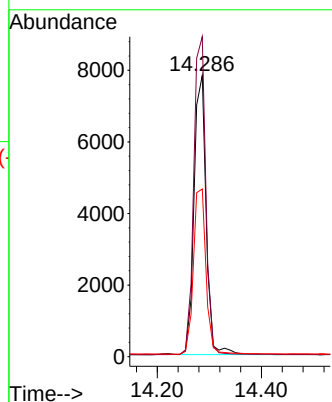
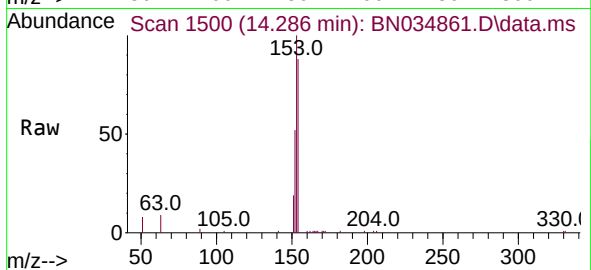
Tgt Ion:154 Resp: 12570

Ion Ratio Lower Upper

154 100

153 113.6 87.8 131.6

152 61.6 44.6 67.0



#18

Fluorene

Concen: 0.349 ng

RT: 15.270 min Scan# 1592

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

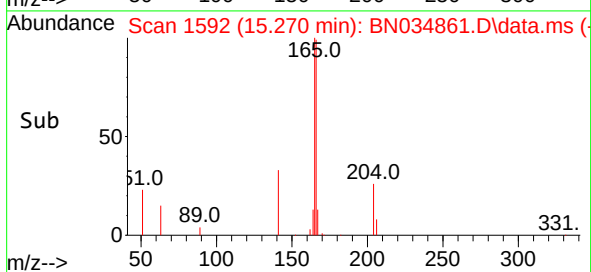
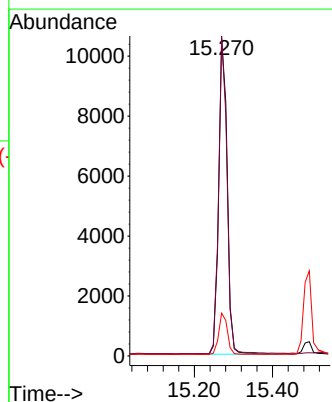
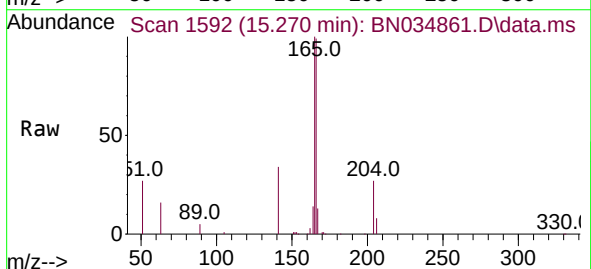
Tgt Ion:166 Resp: 15790

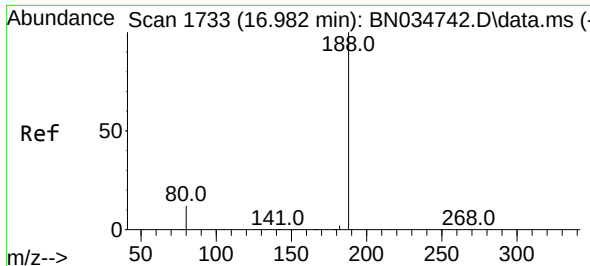
Ion Ratio Lower Upper

166 100

165 99.3 78.5 117.7

167 13.4 10.8 16.2

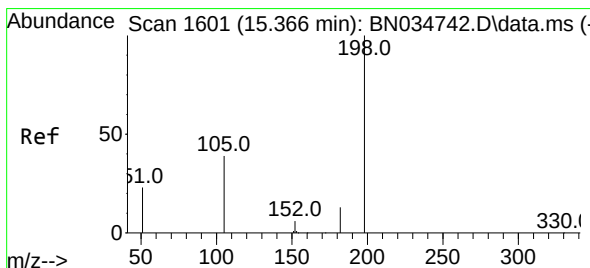
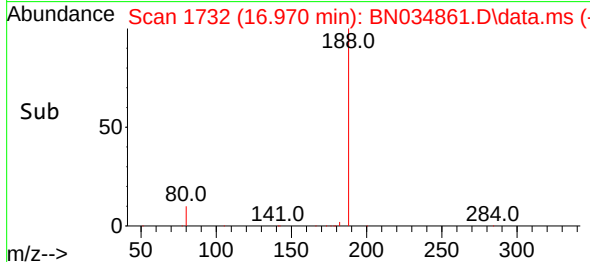
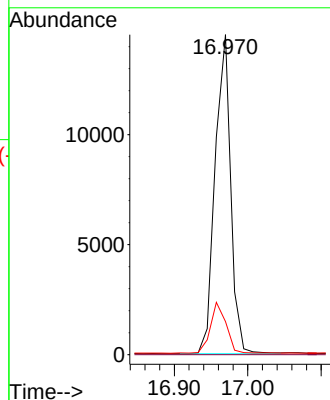
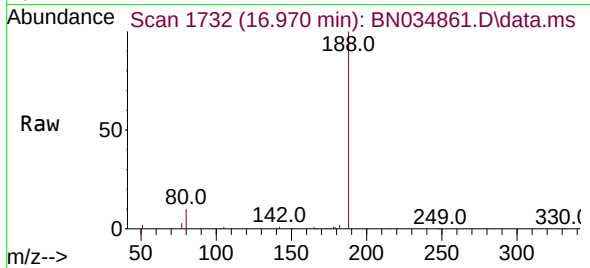




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.970 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

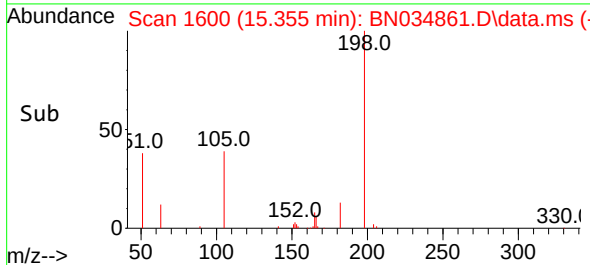
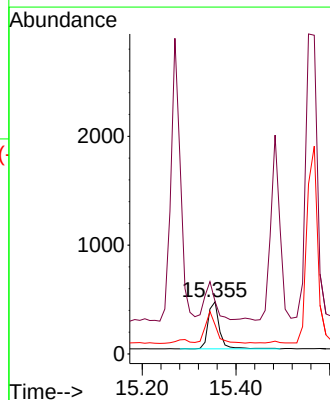
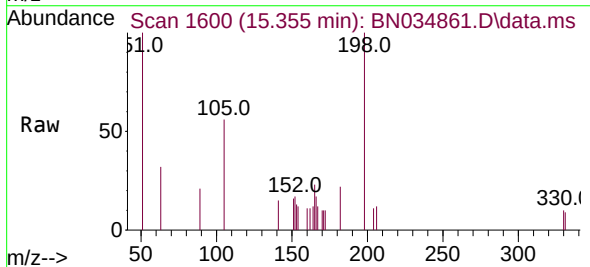
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

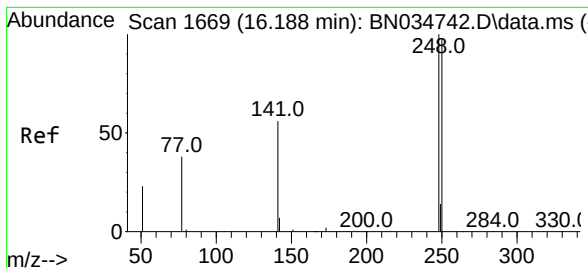
Tgt Ion:188 Resp: 21411
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.4 9.8 14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.353 ng
RT: 15.355 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:198 Resp: 711
Ion Ratio Lower Upper
198 100
51 100.4 58.0 87.0#
105 55.8 49.1 73.7

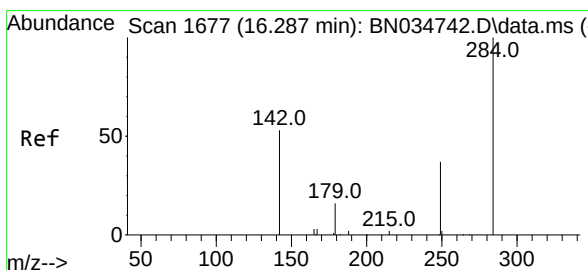
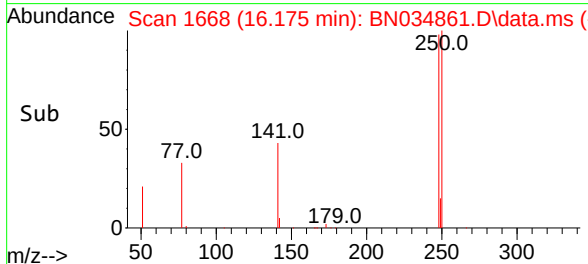
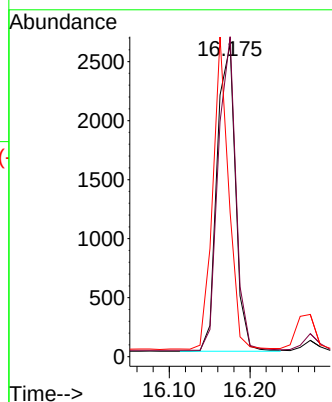
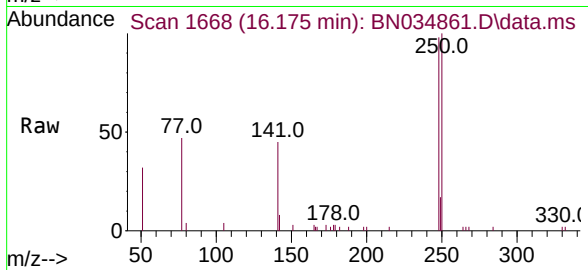




#21
4-Bromophenyl-phenylether
Concen: 0.332 ng
RT: 16.175 min Scan# 1668
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

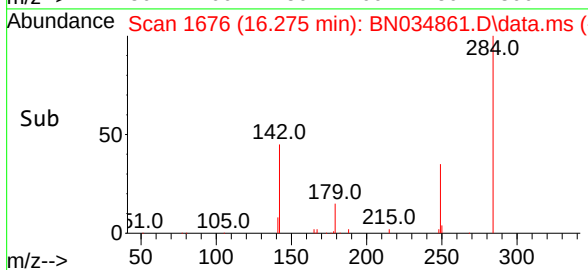
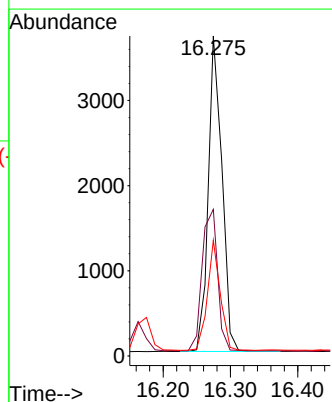
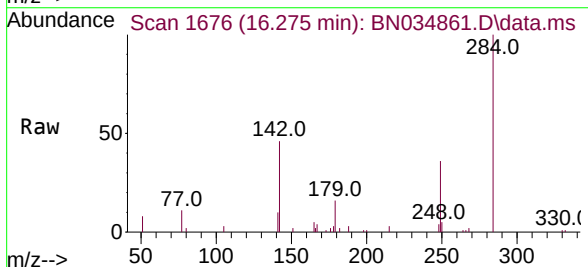
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

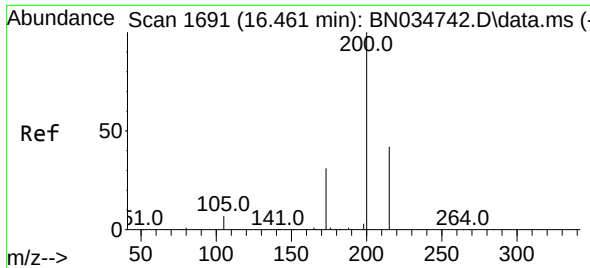
Tgt Ion:248 Resp: 4117
Ion Ratio Lower Upper
248 100
250 102.5 78.7 118.1
141 46.2 46.4 69.6#



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.275 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:284 Resp: 5221
Ion Ratio Lower Upper
284 100
142 51.0 35.4 53.0
249 32.9 25.7 38.5

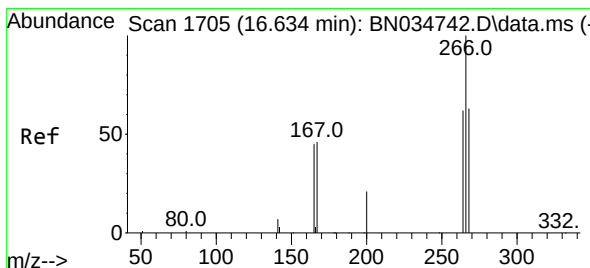
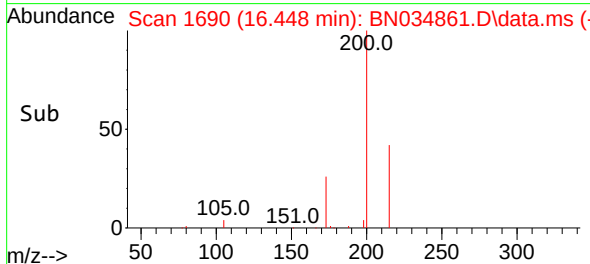
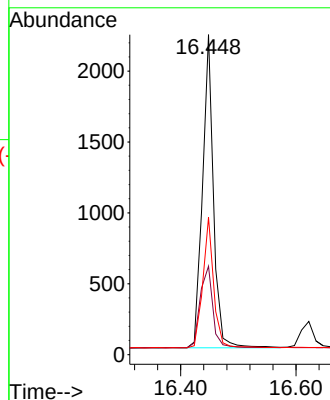
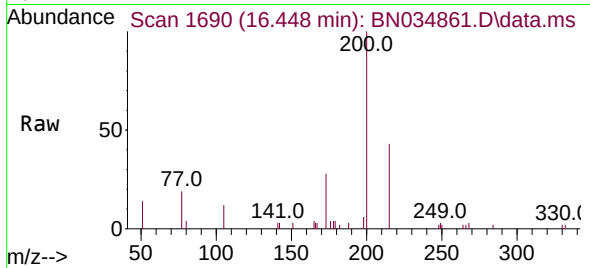




#23
Atrazine
Concen: 0.275 ng
RT: 16.448 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

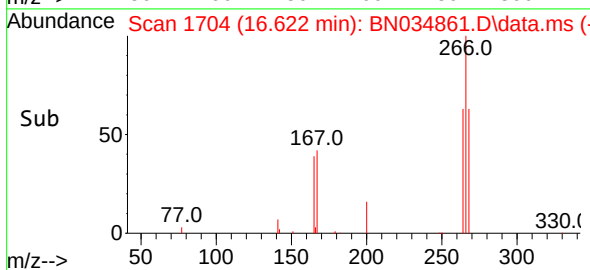
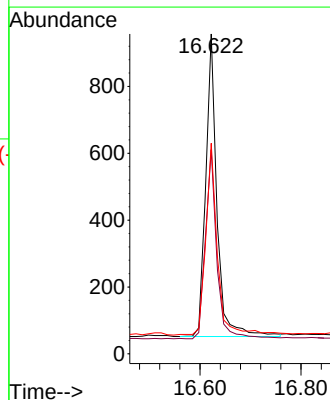
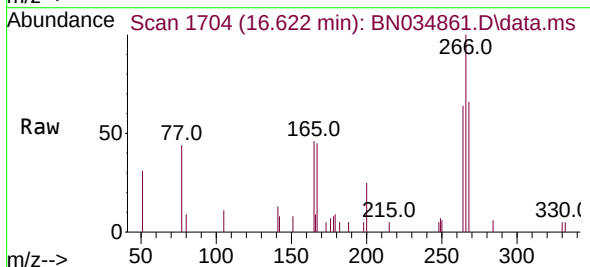
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

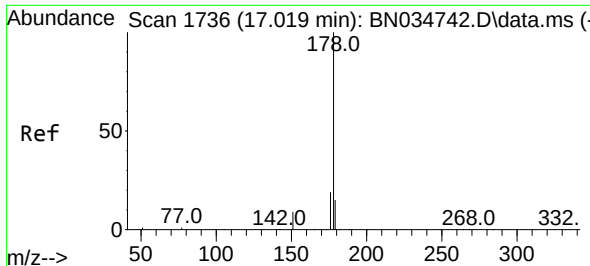
Tgt Ion:200 Resp: 2930
Ion Ratio Lower Upper
200 100
173 27.6 25.8 38.6
215 42.9 34.2 51.4



#24
Pentachlorophenol
Concen: 0.234 ng
RT: 16.622 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:266 Resp: 1399
Ion Ratio Lower Upper
266 100
264 63.8 48.7 73.1
268 66.2 50.2 75.4

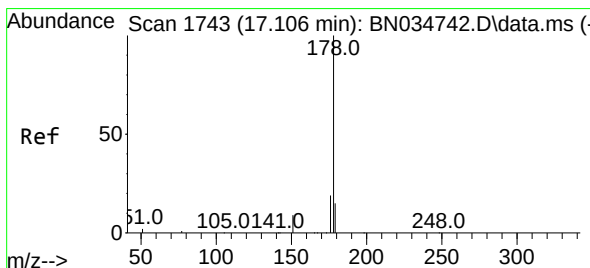
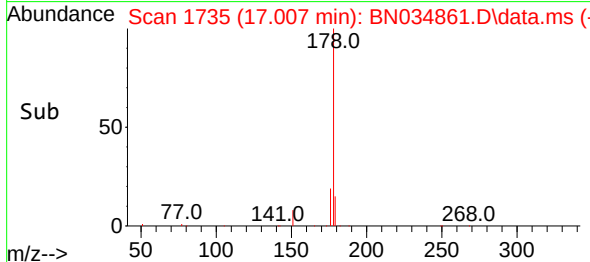
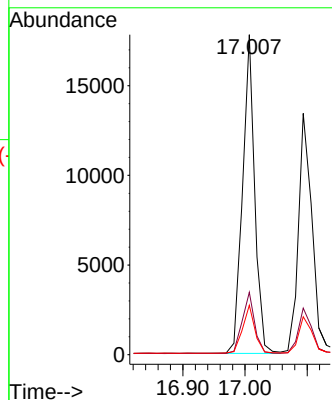
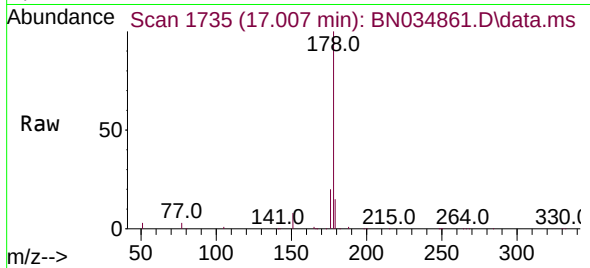




#25
 Phenanthrene
 Concen: 0.384 ng
 RT: 17.007 min Scan# 1742
 Delta R.T. -0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

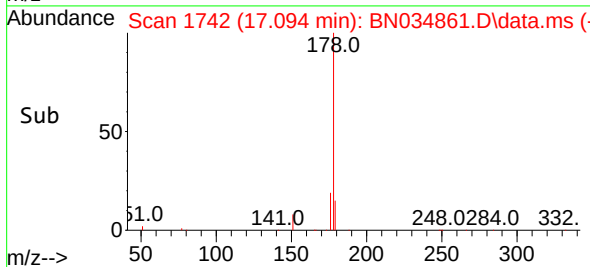
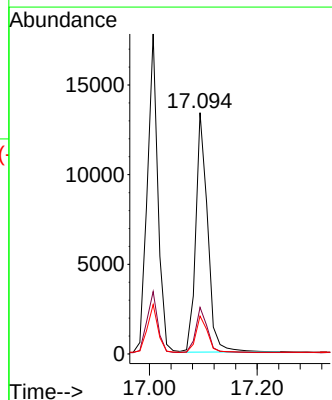
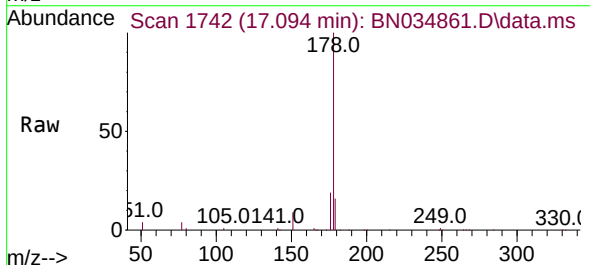
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

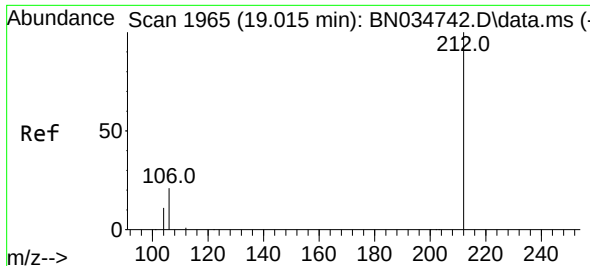
Tgt Ion:178 Resp: 24192
 Ion Ratio Lower Upper
 178 100
 176 19.5 15.4 23.0
 179 15.2 12.2 18.4



#26
 Anthracene
 Concen: 0.347 ng
 RT: 17.094 min Scan# 1742
 Delta R.T. -0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

Tgt Ion:178 Resp: 20428
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.0 22.6
 179 15.2 12.2 18.2

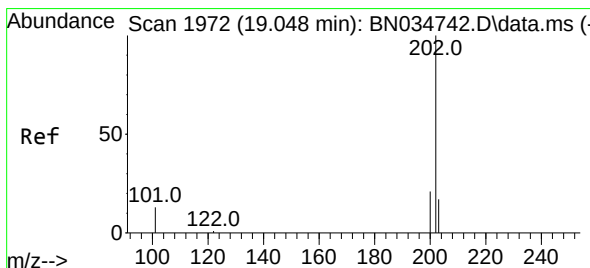
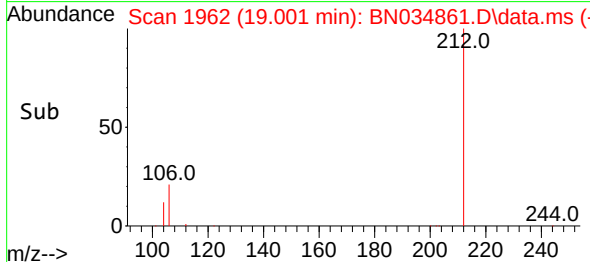
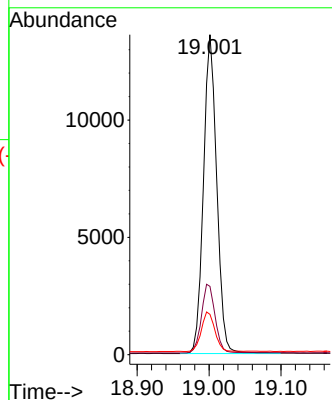
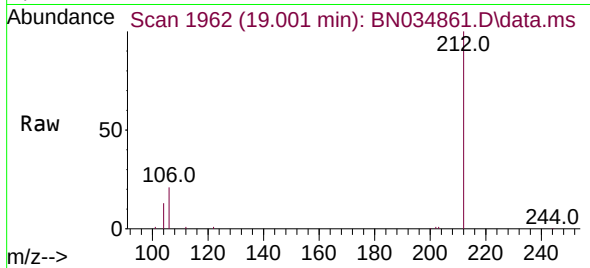




#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.001 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

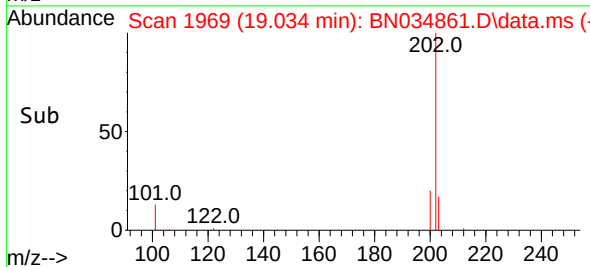
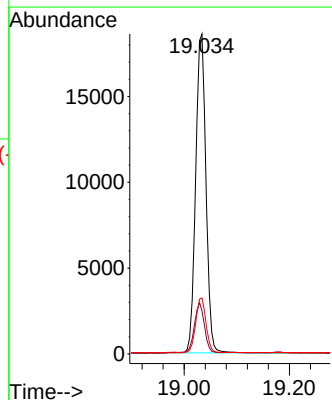
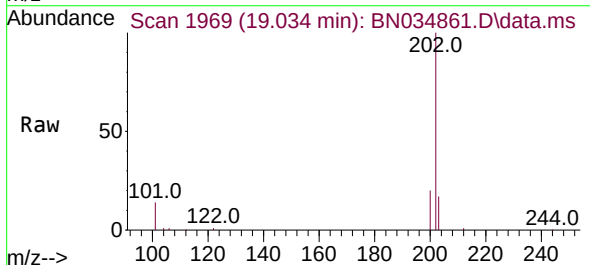
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

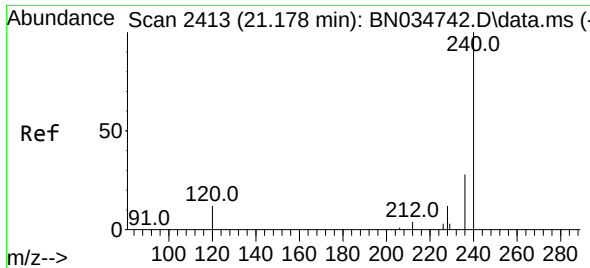
Tgt Ion:212 Resp: 17385
Ion Ratio Lower Upper
212 100
106 22.3 16.1 24.1
104 12.6 9.2 13.8



#28
Fluoranthene
Concen: 0.364 ng
RT: 19.034 min Scan# 1969
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

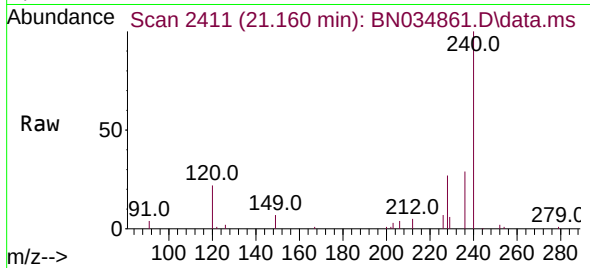
Tgt Ion:202 Resp: 25234
Ion Ratio Lower Upper
202 100
101 15.4 11.4 17.0
203 17.1 13.7 20.5



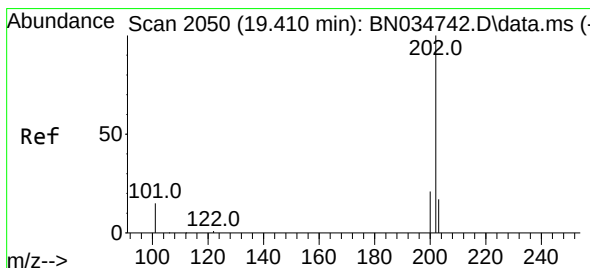
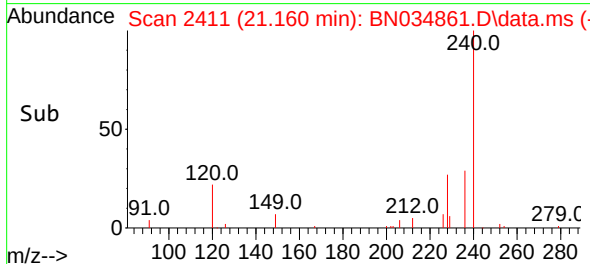
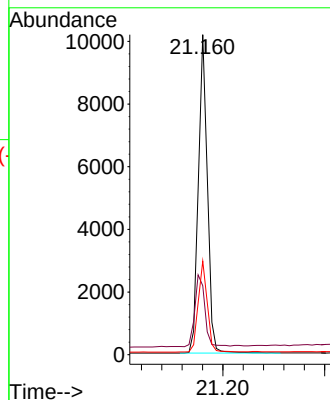


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.160 min Scan# 2411
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

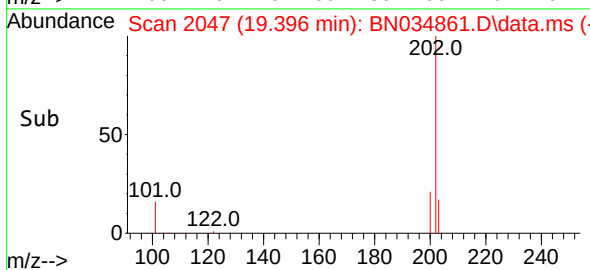
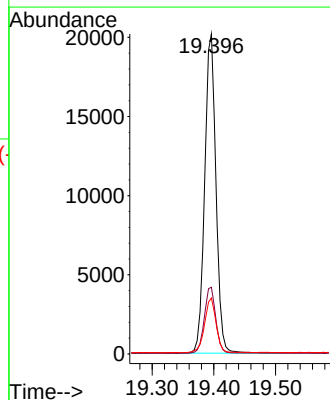
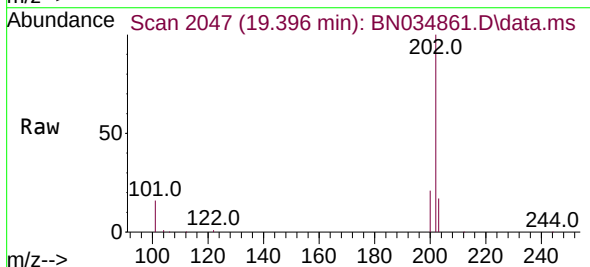


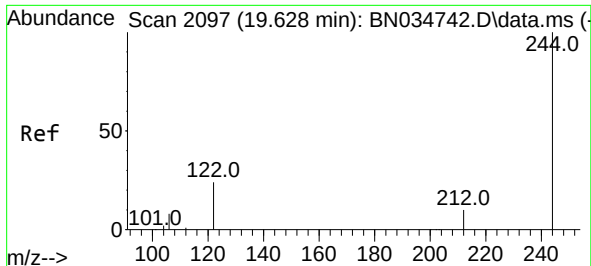
Tgt Ion:240 Resp: 12483
Ion Ratio Lower Upper
240 100
120 21.5 11.5 17.3#
236 29.2 23.2 34.8



#30
Pyrene
Concen: 0.390 ng
RT: 19.396 min Scan# 2047
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:202 Resp: 25452
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.6 14.2 21.2

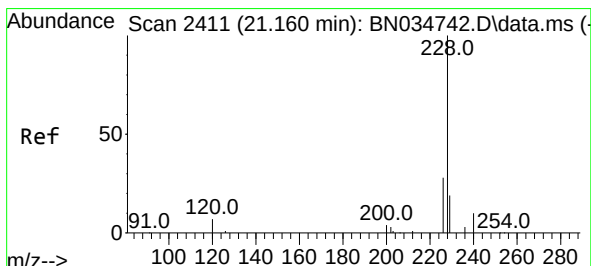
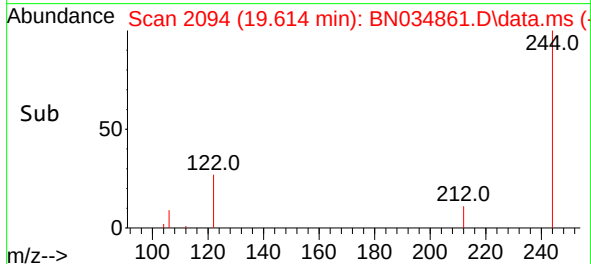
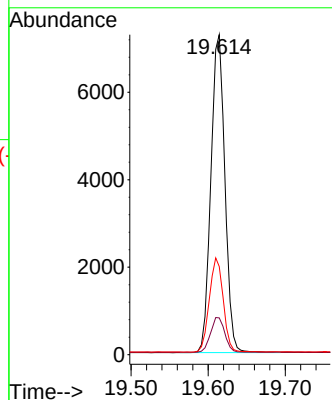
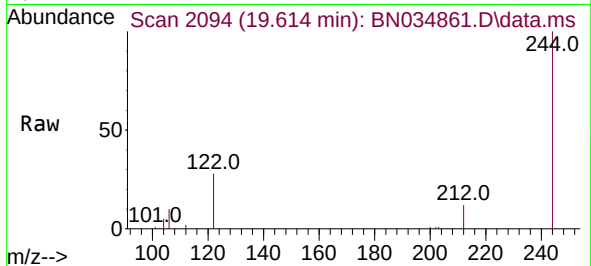




#31
 Terphenyl-d14
 Concen: 0.342 ng
 RT: 19.614 min Scan# 2094
 Delta R.T. -0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

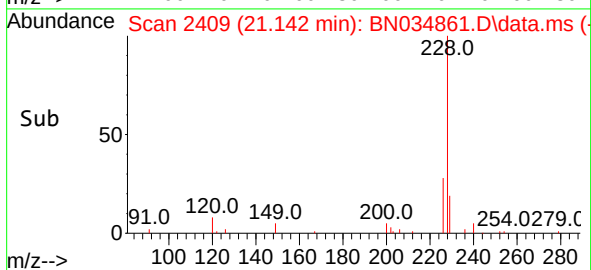
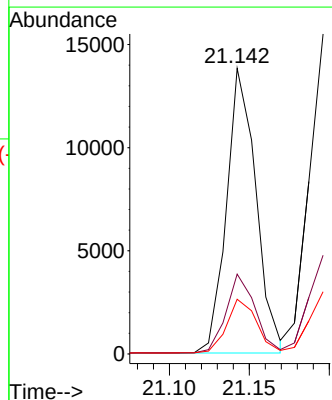
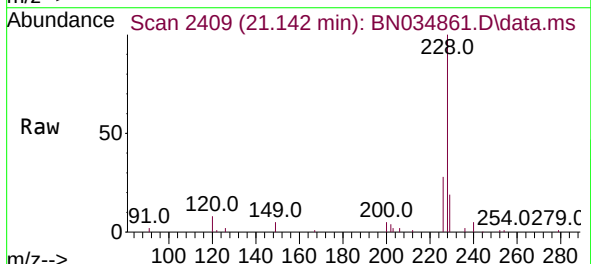
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

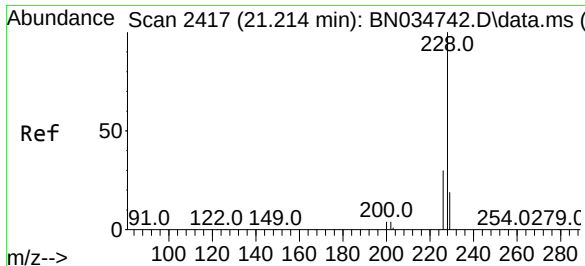
Tgt Ion:244 Resp: 9173
 Ion Ratio Lower Upper
 244 100
 212 11.5 8.2 12.4
 122 27.6 19.8 29.6



#32
 Benzo(a)anthracene
 Concen: 0.355 ng
 RT: 21.142 min Scan# 2409
 Delta R.T. -0.000 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

Tgt Ion:228 Resp: 17648
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.6 33.8
 229 19.1 15.7 23.5

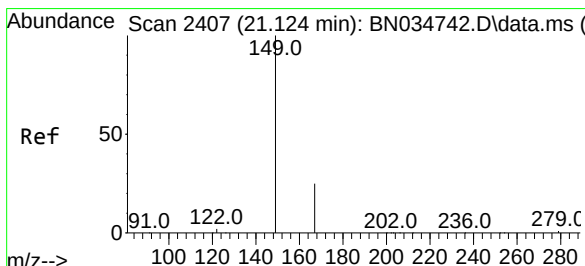
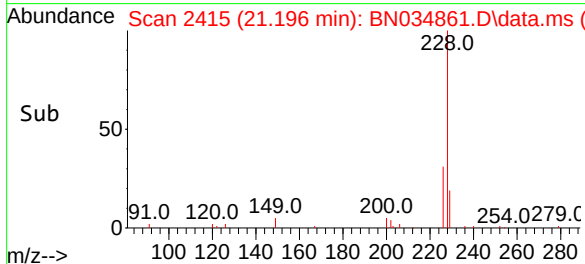
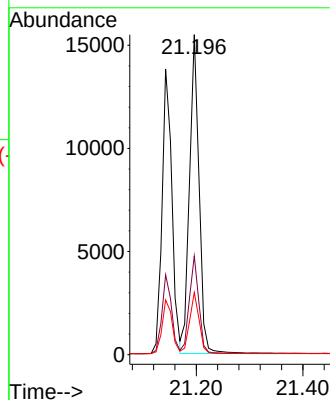
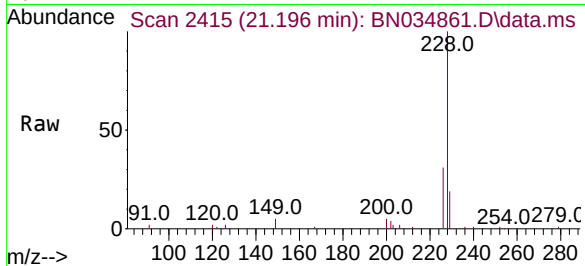




#33
Chrysene
Concen: 0.396 ng
RT: 21.196 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

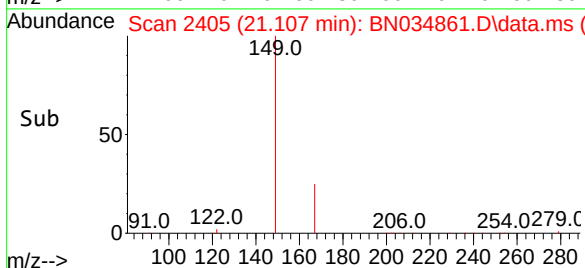
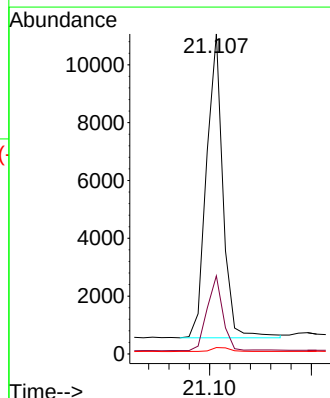
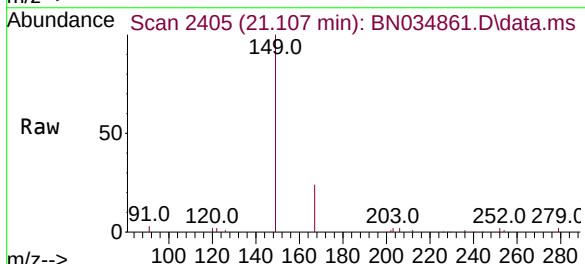
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

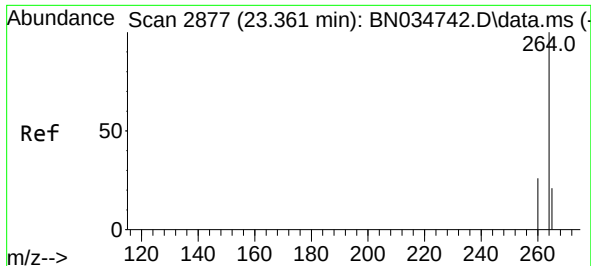
Tgt Ion:228 Resp: 19265
Ion Ratio Lower Upper
228 100
226 30.9 24.4 36.6
229 19.5 15.6 23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.282 ng
RT: 21.107 min Scan# 2405
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

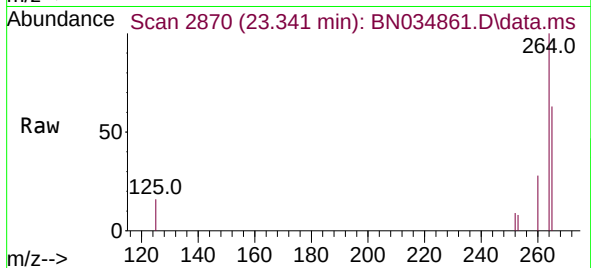
Tgt Ion:149 Resp: 11721
Ion Ratio Lower Upper
149 100
167 23.6 20.6 30.8
279 1.5 1.5 2.3#



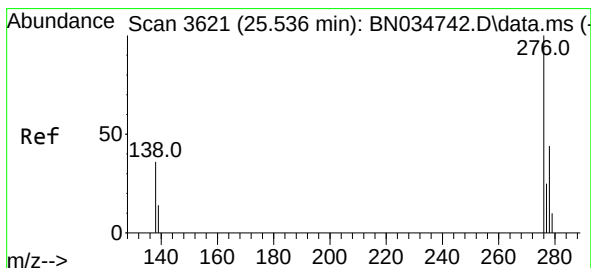
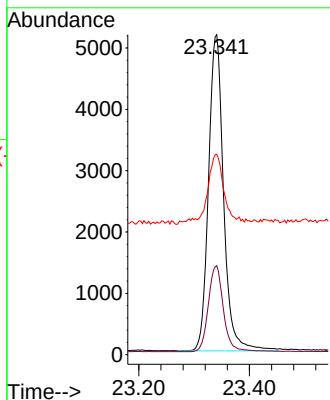
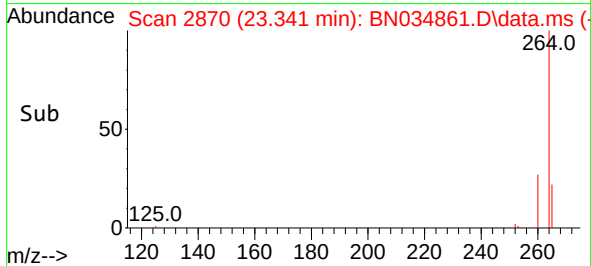


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.341 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

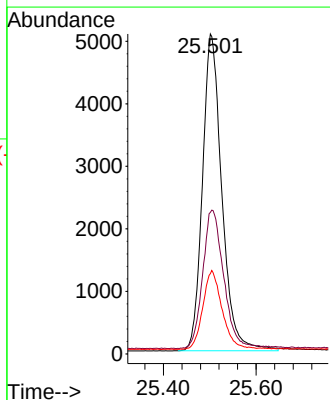
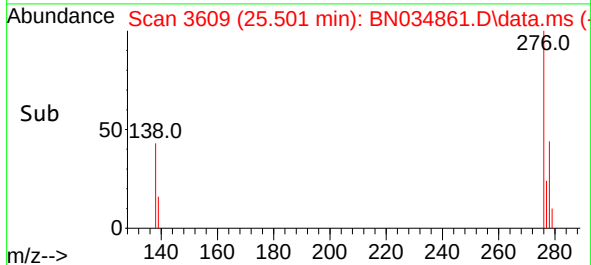
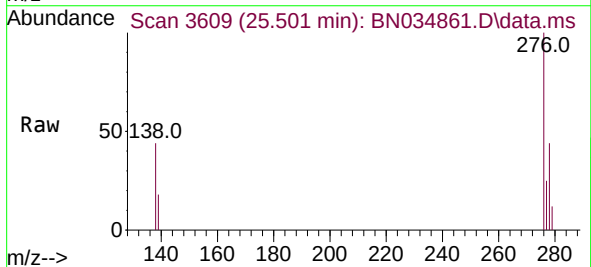


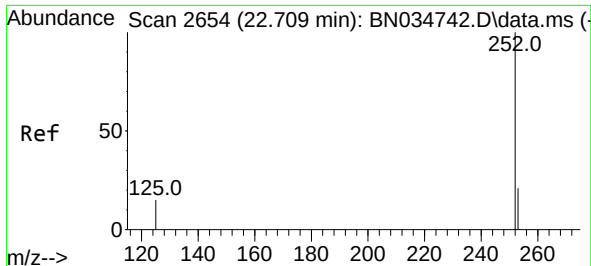
Tgt Ion:264 Resp: 9733
Ion Ratio Lower Upper
264 100
260 27.8 21.5 32.3
265 62.6 47.5 71.3



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.501 min Scan# 3609
Delta R.T. -0.003 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:276 Resp: 14740
Ion Ratio Lower Upper
276 100
138 47.2 31.5 47.3
277 24.6 19.7 29.5

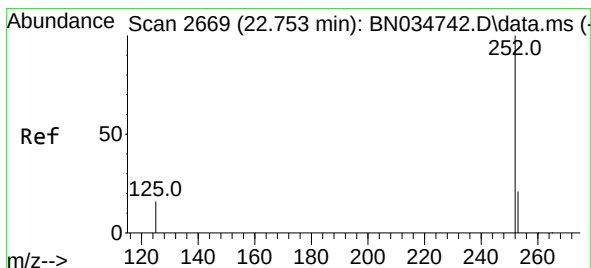
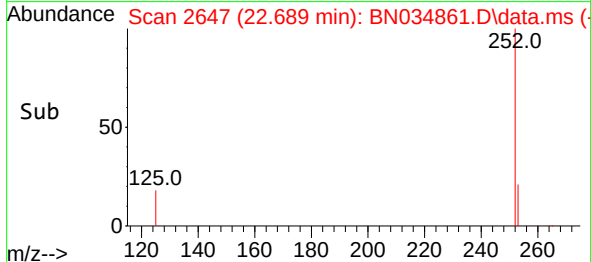
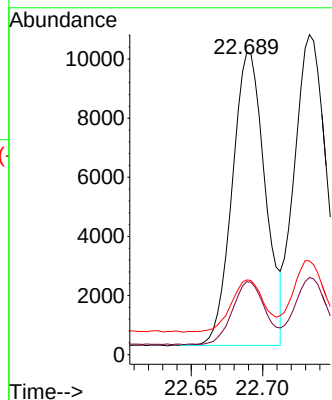
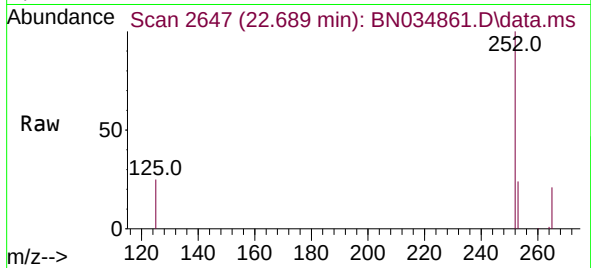




#37
Benzo(b)fluoranthene
Concen: 0.406 ng
RT: 22.689 min Scan# 2647
Delta R.T. -0.000 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

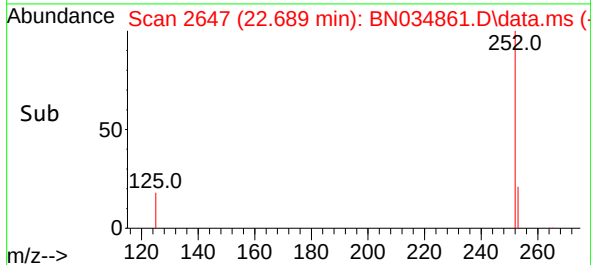
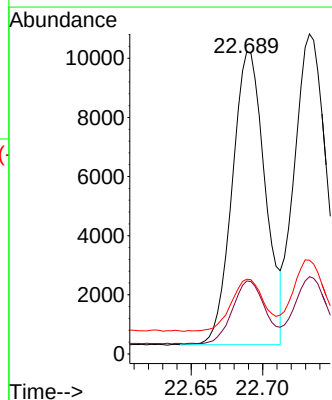
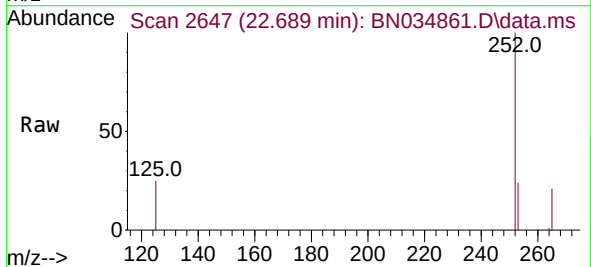
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

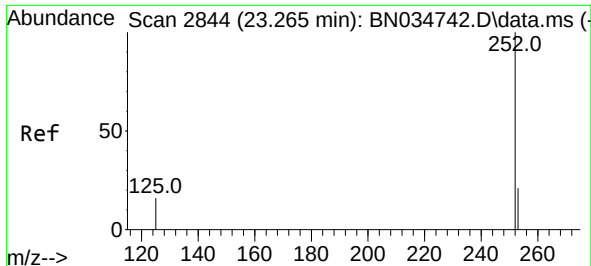
Tgt Ion:252 Resp: 15905
Ion Ratio Lower Upper
252 100
253 24.1 19.7 29.5
125 24.7 17.1 25.7



#38
Benzo(k)fluoranthene
Concen: 0.416 ng
RT: 22.689 min Scan# 2647
Delta R.T. -0.041 min
Lab File: BN034861.D
Acq: 05 Nov 2024 04:09

Tgt Ion:252 Resp: 15905
Ion Ratio Lower Upper
252 100
253 24.1 19.8 29.6
125 24.7 18.2 27.2





#39

Benzo(a)pyrene

Concen: 0.369 ng

RT: 23.241 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

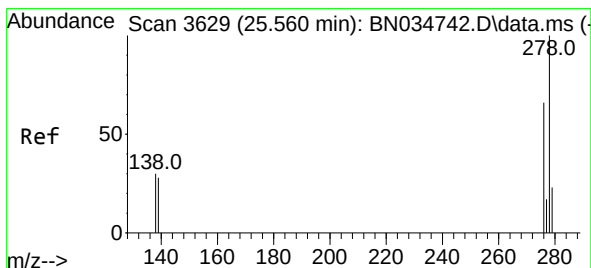
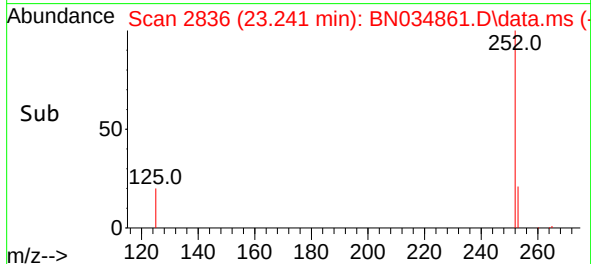
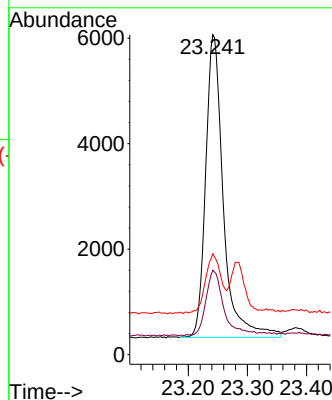
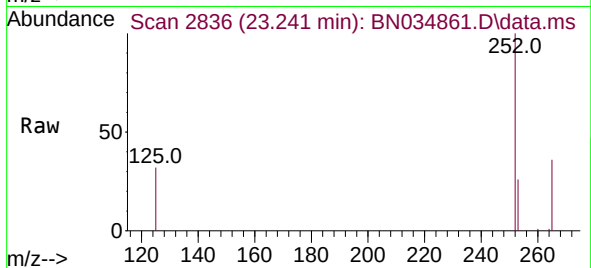
Tgt Ion:252 Resp: 11941

Ion Ratio Lower Upper

252 100

253 26.4 20.7 31.1

125 31.6 20.3 30.5#



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

RT: 25.516 min Scan# 3614

Delta R.T. -0.009 min

Lab File: BN034861.D

Acq: 05 Nov 2024 04:09

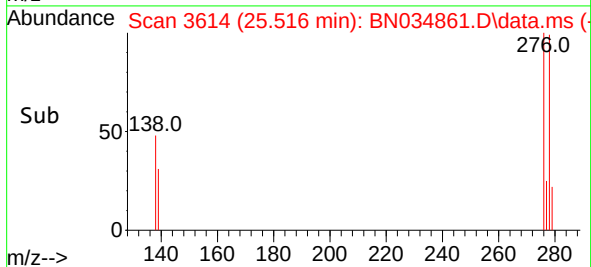
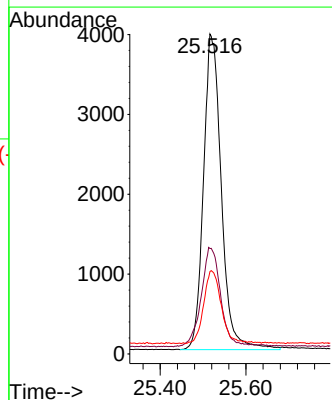
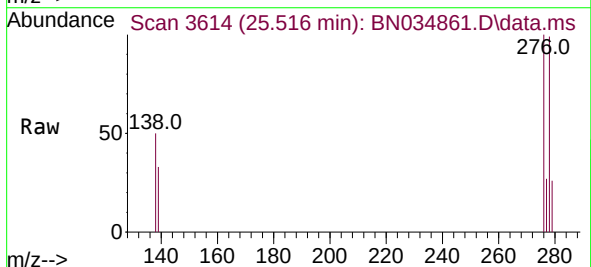
Tgt Ion:278 Resp: 11413

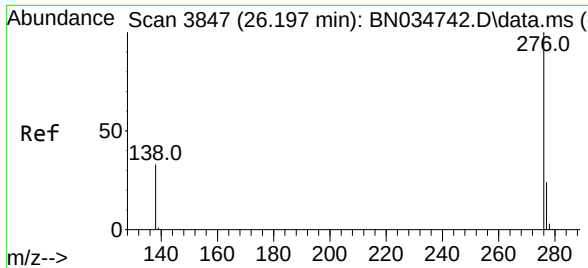
Ion Ratio Lower Upper

278 100

139 33.0 24.9 37.3

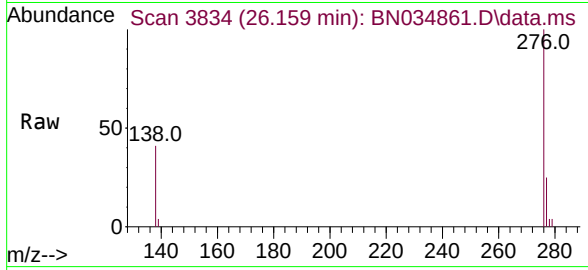
279 25.8 21.0 31.4





#41
 Benzo(g,h,i)perylene
 Concen: 0.401 ng
 RT: 26.159 min Scan# 3847
 Delta R.T. -0.006 min
 Lab File: BN034861.D
 Acq: 05 Nov 2024 04:09

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:	276	Resp:	12092
Ion Ratio	Lower	Upper	
276	100		
277	25.1	20.2	30.2
138	41.0	28.7	43.1

