

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 : Q1423
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1423

Project ID : NWIRP Bethpage CTO WE13 - VPB-192 #112G08005

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1423-01
Q1423-02
Q1423-03
Q1423-04

Client Sample Number

BP-VPB-192-TB-20250220
VPB192-HYD-20250221
BP-VPB-192-EB-20250221
BP-VPB-192-GW-925-927

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 : _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:02 am, Mar 10, 2025

Date: 3/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # Q1423

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 02/24/2025.

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 PB166876BS [2-Fluorobiphenyl - 123%], PB166876BSD [2-Fluorobiphenyl - 127%], VPB192-HYD-20250221 [Terphenyl-d14 - 147%], BP-VPB-192-EB-20250221 [2-Fluorobiphenyl - 124% and Terphenyl-d14 - 158%], The above failure surrogates not associated with the client parameters list, therefore no corrective action was taken and VPB192-HYD-20250221 [2-Methylnaphthalene-d10 - 22%,], Due to the limited volume of this sample not be re-analyzed therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BN036508.D met the requirements except for 2,4,6-Tribromophenol , The above failure compound not associated with the client parameters list, therefore no corrective action was 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 <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:02 am, Mar 10, 2025

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: Q1423

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 BN036508.D met the requirements except for 2,4,6-Tribromophenol , The above failure compound not associated with the client parameters list, therefore no corrective action was taken..		✓	
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
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 PB166876BS [2- Fluorobiphenyl - 123%], PB166876BSD [2-Fluorobiphenyl - 127%], VPB192-HYD- 20250221 [Terphenyl-d14 - 147%], BP-VPB-192-EB-20250221 [2-Fluorobiphenyl - 124% and Terphenyl-d14 - 158%], The above failure surrogates not associated with the client parameters list, therefore no corrective action was taken and VPB192-HYD- 20250221 [2-Methylnaphthalene-d10 - 22%,], Due to the limited volume of this sample not be re-analyzed therefore no corrective action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓

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

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

ADDITIONAL COMMENTS:

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

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

The not QT review data is reported in the Miscellaneous.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

REVIEWED

By *Sohil Jodhani, QA/QC Director* at 10:51 am, Mar 10, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1423

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 03/05/2025

LAB CHRONICLE

OrderID:	Q1423	OrderDate:	2/25/2025 10:55:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	H33,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1423-02	VPB192-HYD-20250221	Water			02/21/25			02/24/25
			SVOC-SIMGroup1	8270-Modified		02/26/25	02/26/25	
Q1423-03	BP-VPB-192-EB-20250221	Water			02/21/25			02/24/25
			SVOC-SIMGroup1	8270-Modified		02/26/25	02/26/25	



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Fax : 908 789 8922

Hit Summary Sheet SW-846

SDG No.: Q1423

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
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Surrogate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166876BL	PB166876BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
PB166876BS	PB166876BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.49	123	*	53	106
		Terphenyl-d14	0.4	0.48	119		58	132
PB166876BSD	PB166876BSD	2-Methylnaphthalene-d10	0.4	0.42	106		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.51	127	*	53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1423-02	VPB192-HYD-20250221	2-Methylnaphthalene-d10	0.4	0.086	22	*	30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
Q1423-03	BP-VPB-192-EB-20250221	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.37	91		55	111
		2-Fluorobiphenyl	0.4	0.50	124	*	53	106
		Terphenyl-d14	0.4	0.63	158	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036512.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166876BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036513.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166876BSD	1,4-Dioxane	0.4	0.37	ug/L	93	0			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166876BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1423

SAS No.: Q1423 SDG NO.: Q1423

Lab File ID: BN036509.D

Lab Sample ID: PB166876BL

Instrument ID: BNA_N

Date Extracted: 02/26/2025

Matrix: (soil/water) Water

Date Analyzed: 02/26/2025

Level: (low/med) LOW

Time Analyzed: 14:19

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166876BS	PB166876BS	BN036512.D	02/26/2025
VPB192-HYD-20250221	Q1423-02	BN036510.D	02/26/2025
BP-VPB-192-EB-20250221	Q1423-03	BN036511.D	02/26/2025
PB166876BSD	PB166876BSD	BN036513.D	02/26/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1423SDG NO.: Q1423Lab File ID: BN036408.DDFTPP Injection Date: 02/10/2025Instrument ID: BNA_NDFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.3
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	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	7.1
442	Greater than 50% of mass 198	52.3
443	15.0 - 24.0% of mass 442	10.5 (20.1) 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
SSTDICC0.1	SSTDICC0.1	BN036409.D	02/10/2025	12:25
SSTDICC0.2	SSTDICC0.2	BN036410.D	02/10/2025	13:01
SSTDICCC0.4	SSTDICCC0.4	BN036411.D	02/10/2025	13:36
SSTDICC0.8	SSTDICC0.8	BN036412.D	02/10/2025	14:12
SSTDICC1.6	SSTDICC1.6	BN036413.D	02/10/2025	14:48
SSTDICC3.2	SSTDICC3.2	BN036414.D	02/10/2025	15:24
SSTDICC5.0	SSTDICC5.0	BN036415.D	02/10/2025	16:00



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1423 SDG NO.: Q1423Lab File ID: BN036507.DDFTPP Injection Date: 02/26/2025Instrument ID: BNA_NDFTPP Injection Time: 13:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	49.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	57.1
443	15.0 - 24.0% of mass 442	10.6 (18.6) 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	BN036508.D	02/26/2025	13:43
PB166876BL	PB166876BL	BN036509.D	02/26/2025	14:19
VPB192-HYD-20250221	Q1423-02	BN036510.D	02/26/2025	14:55
BP-VPB-192-EB-20250221	Q1423-03	BN036511.D	02/26/2025	15:31
PB166876BS	PB166876BS	BN036512.D	02/26/2025	16:07
PB166876BSD	PB166876BSD	BN036513.D	02/26/2025	16:44
SSTDCCC0.4EC	SSTDCCC0.4	BN036514.D	02/26/2025	17:20

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/26/2025

Lab File ID: BN036508.D Time Analyzed: 13:43

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	2772	7.739	6909	10.53	4680	14.38
UPPER LIMIT	5544	8.239	13818	11.03	9360	14.877
LOWER LIMIT	1386	7.239	3454.5	10.03	2340	13.877
EPA SAMPLE NO.						
01 PB166876BL	2585	7.75	5224	10.55	3049	14.39
02 VPB192-HYD-20250221	2028	7.74	4364	10.53	3005	14.38
03 PB166876BS	2531	7.74	5759	10.53	3208	14.38
04 BP-VPB-192-EB-20250221	2561	7.74	5724	10.53	3696	14.38
05 PB166876BSD	2476	7.74	5554	10.53	2910	14.38

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.: Q1423 SAS No.: Q1423 SDG NO.: Q1423

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/26/2025

Lab File ID: BN036508.D Time Analyzed: 13:43

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	9092	17.124	6639	21.313	6000	23.581
UPPER LIMIT	18184	17.624	13278	21.813	12000	24.081
LOWER LIMIT	4546	16.624	3319.5	20.813	3000	23.081
EPA SAMPLE NO.						
01 PB166876BL	5698	17.15	3989	21.32	3507	23.59
02 VPB192-HYD-20250221	6199	17.14	5181	21.31	4672	23.58
03 PB166876BS	5804	17.12	3657	21.31	3285	23.58
04 BP-VPB-192-EB-20250221	7691	17.12	5768	21.31	5083	23.58
05 PB166876BSD	5252	17.12	3329	21.31	2986 *	23.58

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/21/25
Project:	CTO WE13	Date Received:	02/24/25
Client Sample ID:	VPB192-HYD-20250221	SDG No.:	Q1423
Lab Sample ID:	Q1423-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	890 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036510.D	1	02/26/25 08:52	02/26/25 14:55	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.086	*	30 - 150		22%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2030		7.739			
1146-65-2	Naphthalene-d8	4360		10.53			
15067-26-2	Acenaphthene-d10	3010		14.377			
1517-22-2	Phenanthrene-d10	6200		17.136			
1719-03-5	Chrysene-d12	5180		21.313			
1520-96-3	Perylene-d12	4670		23.578			

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\BN022625\
Data File : BN036510.D
Acq On : 26 Feb 2025 14:55
Operator : RC/JU
Sample : Q1423-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

Quant Time: Feb 26 15:20:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

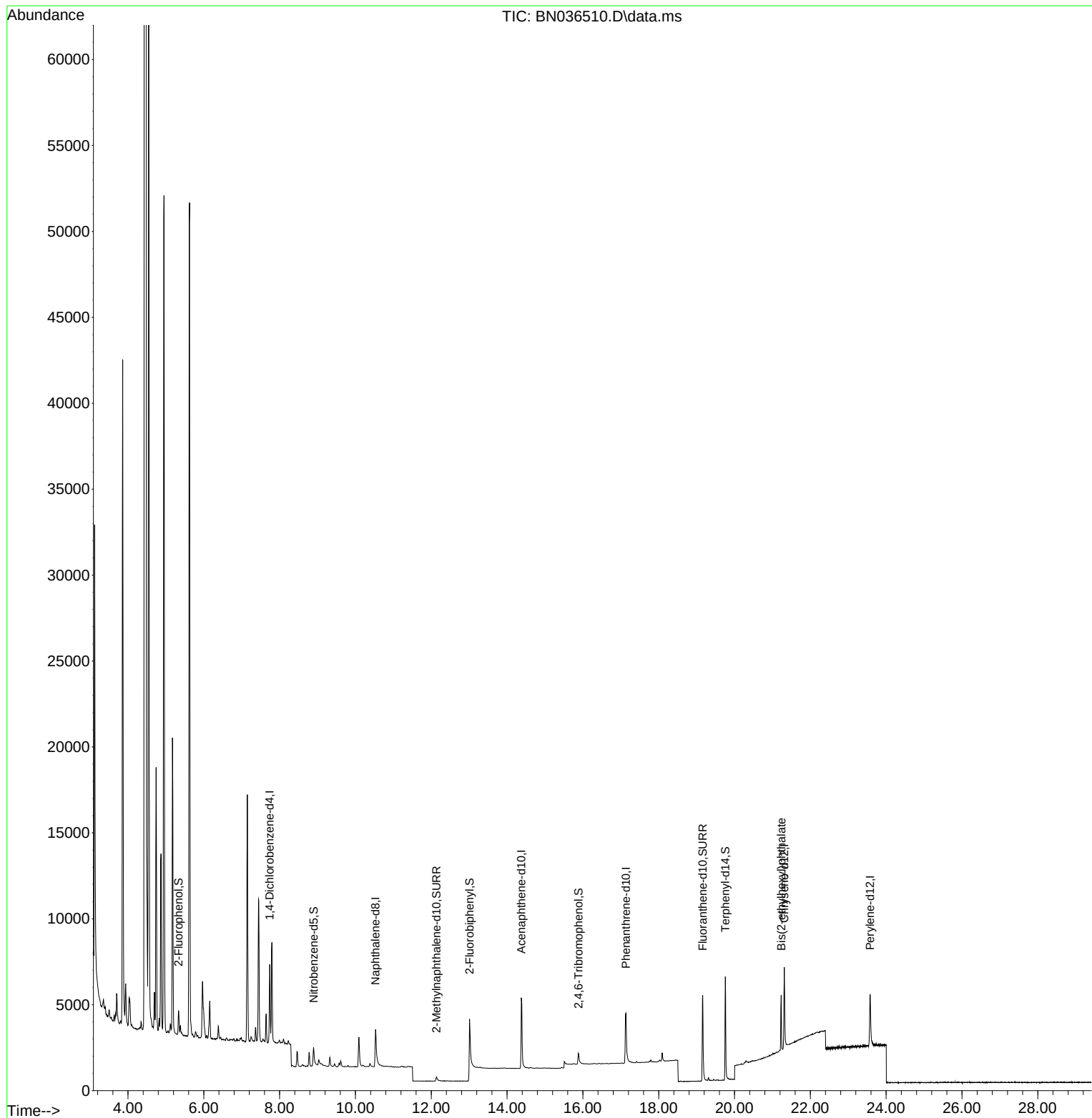
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2028	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	4364	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	3005	0.400	ng	-0.01
19) Phenanthrene-d10	17.136	188	6199	0.400	ng	0.00
29) Chrysene-d12	21.313	240	5181	0.400	ng	0.00
35) Perylene-d12	23.578	264	4672	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	615	0.128	ng	-0.01
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.897	82	1400	0.325	ng	-0.01
11) 2-Methylnaphthalene-d10	12.136	152	574	0.086	ng	0.00
14) 2,4,6-Tribromophenol	15.883	330	516	0.346	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	3919	0.347	ng	-0.01
27) Fluoranthene-d10	19.160	212	6728	0.390	ng	0.00
31) Terphenyl-d14	19.759	244	6510	0.589	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.232	149	2947	0.277	ng	Qvalue 98

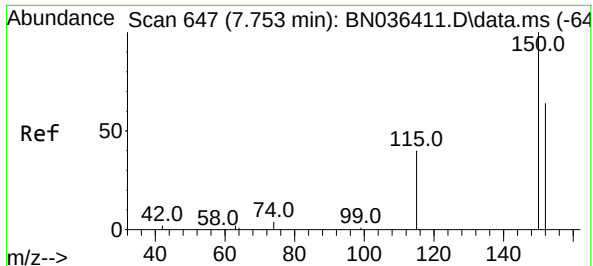
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036510.D
Acq On : 26 Feb 2025 14:55
Operator : RC/JU
Sample : Q1423-02
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

Quant Time: Feb 26 15:20:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

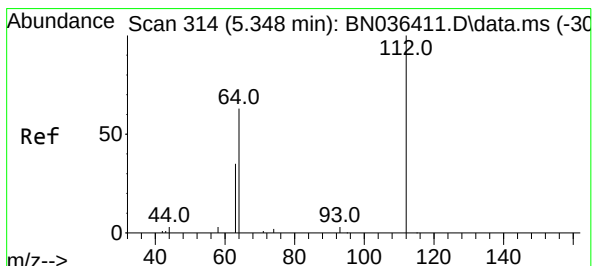
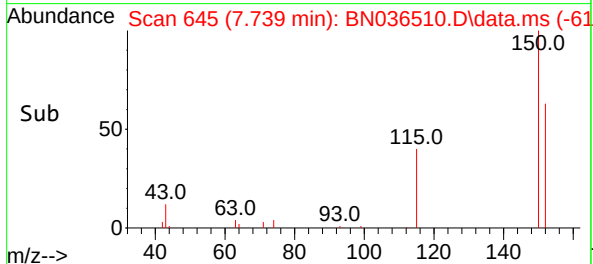
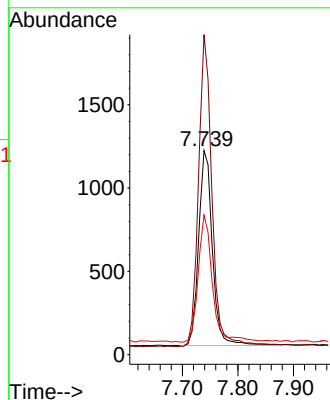
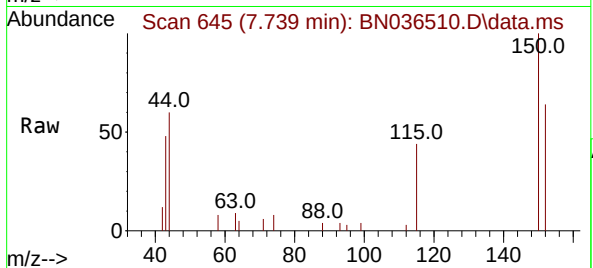




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

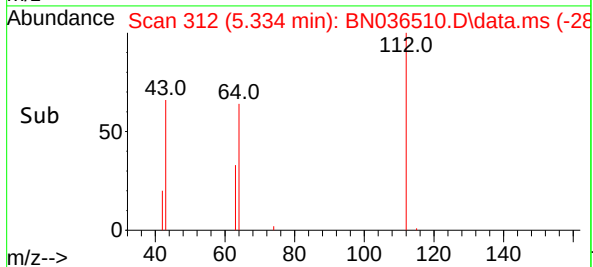
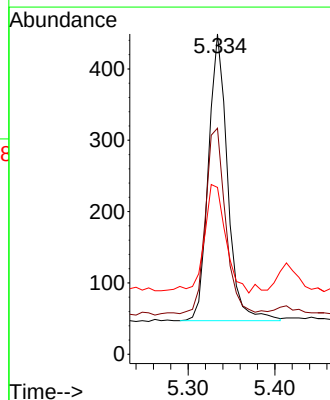
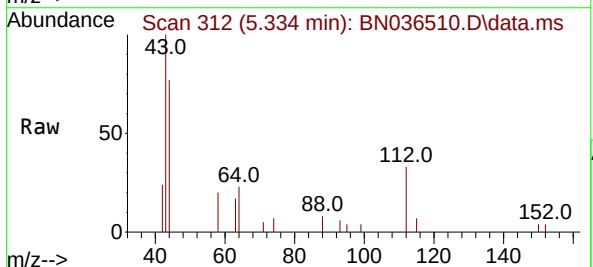
Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

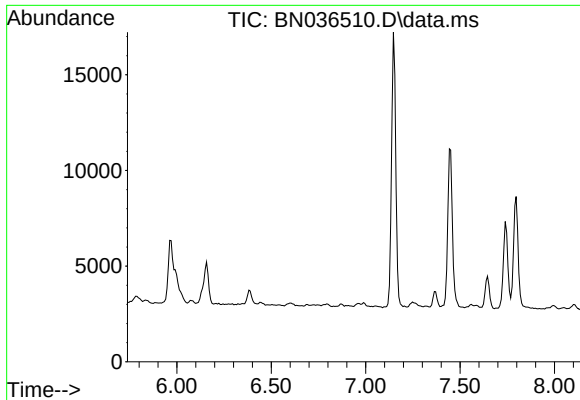
Tgt Ion:152 Resp: 2028
Ion Ratio Lower Upper
152 100
150 156.8 123.7 185.5
115 68.3 52.5 78.7



#4
2-Fluorophenol
Concen: 0.128 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.014 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

Tgt Ion:112 Resp: 615
Ion Ratio Lower Upper
112 100
64 69.8 53.4 80.0
63 42.9 30.3 45.5



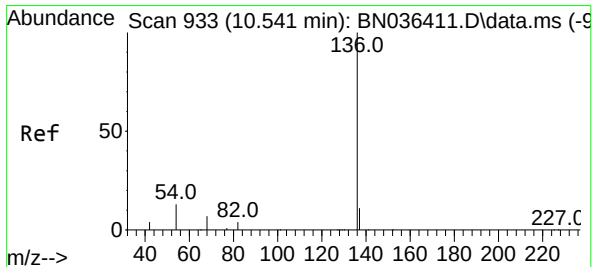
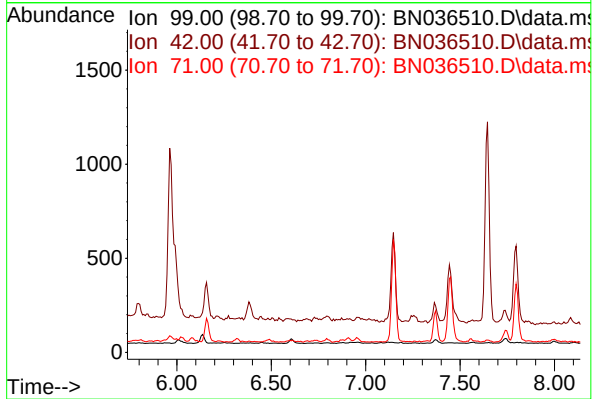


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.94 min

Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

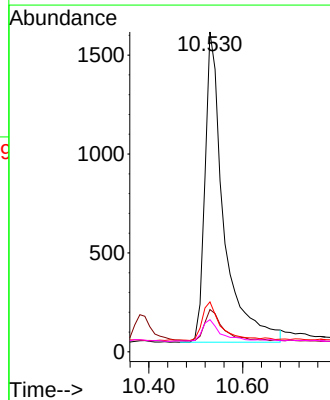
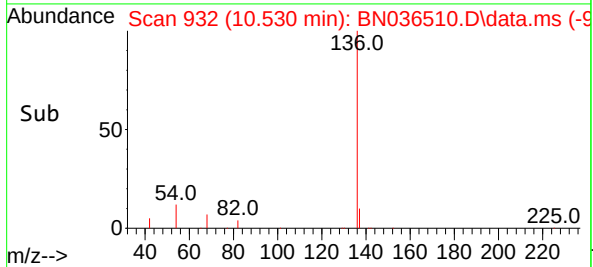
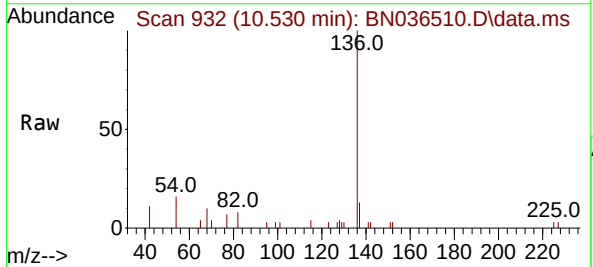
Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

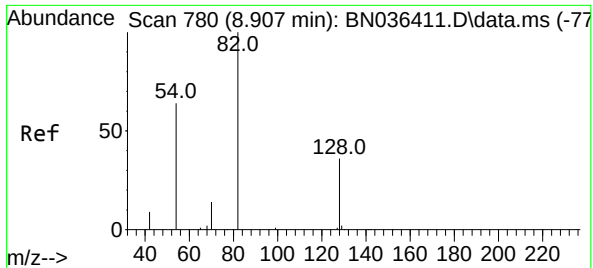
Tgt Ion: 99
Sig Exp Ratio
99 100
42 27.1
71 40.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 932
Delta R.T. -0.011 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

Tgt Ion:136 Resp: 4364
Ion Ratio Lower Upper
136 100
137 13.2 10.1 15.1
54 15.6 11.8 17.6
68 10.1 7.2 10.8

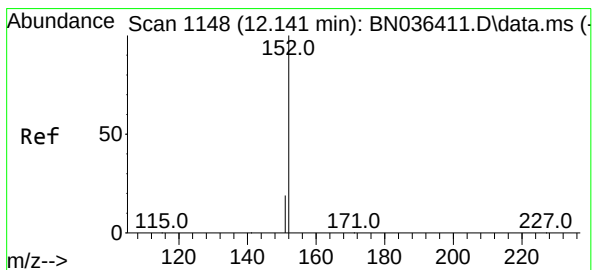
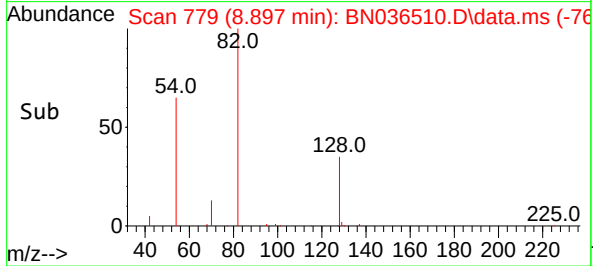
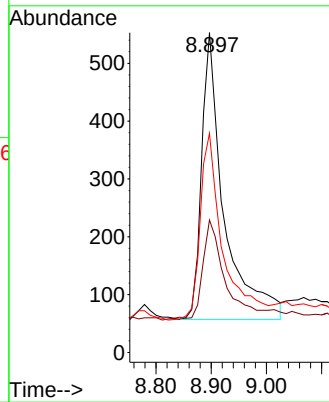
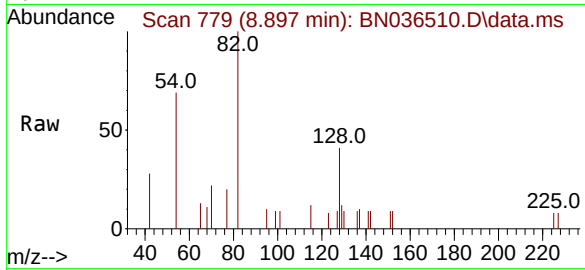




#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.897 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

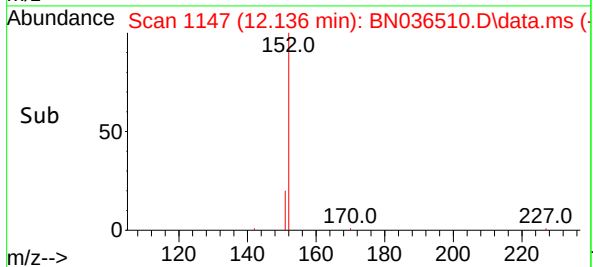
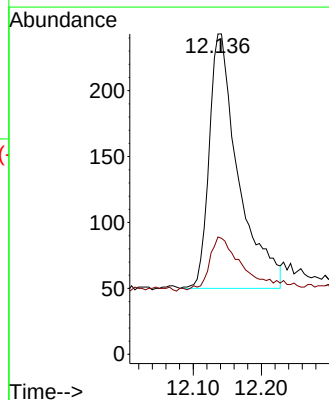
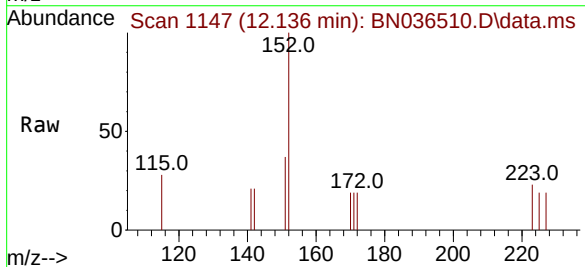
Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

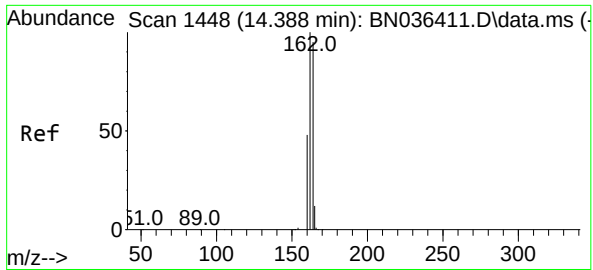
Tgt Ion:	82	Resp:	1400
Ion	Ratio	Lower	Upper
82	100		
128	41.4	31.9	47.9
54	68.5	53.1	79.7



#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

Tgt Ion:	152	Resp:	574
Ion	Ratio	Lower	Upper
152	100		
151	26.0	16.6	25.0#

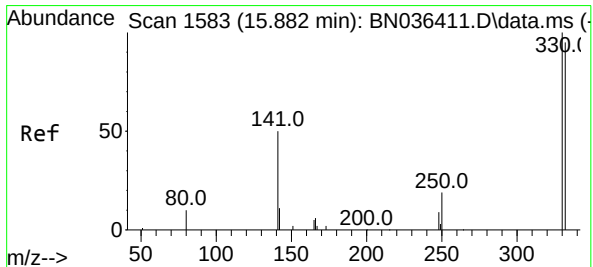
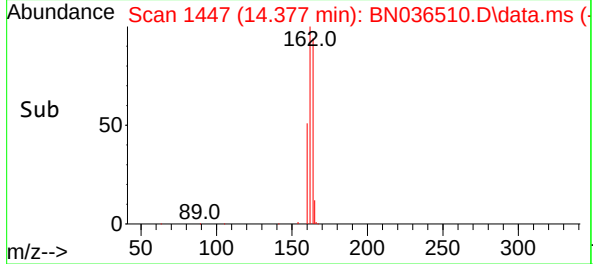
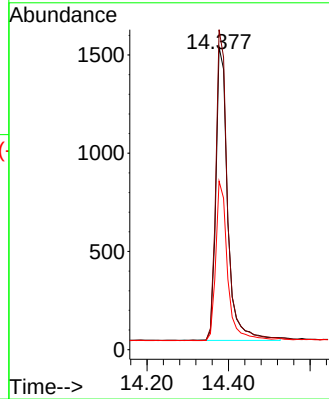
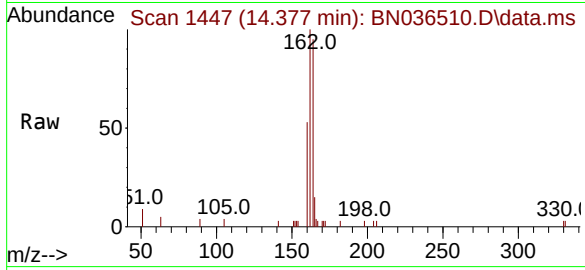




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

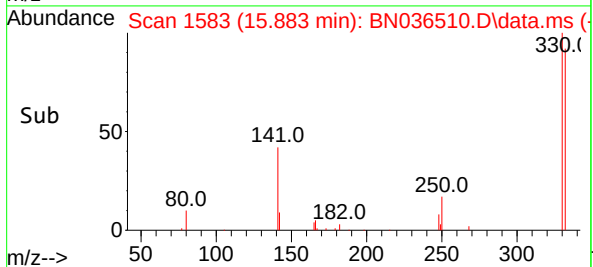
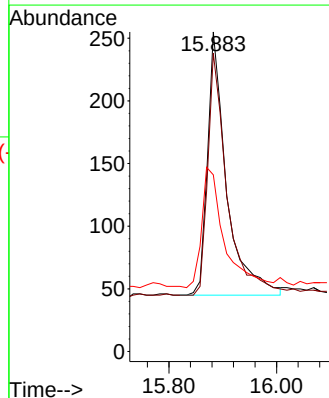
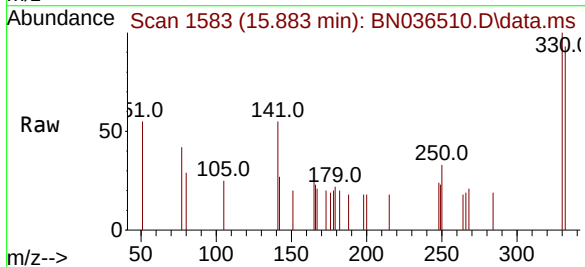
Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

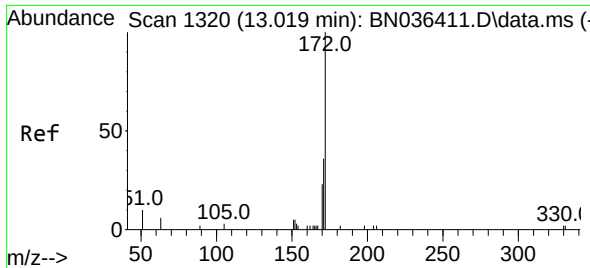
Tgt Ion:	164	Resp:	3005
Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.1	126.1
160	55.7	41.4	62.0



#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

Tgt Ion:	330	Resp:	516
Ion	Ratio	Lower	Upper
330	100		
332	93.8	76.6	114.8
141	51.9	37.8	56.8

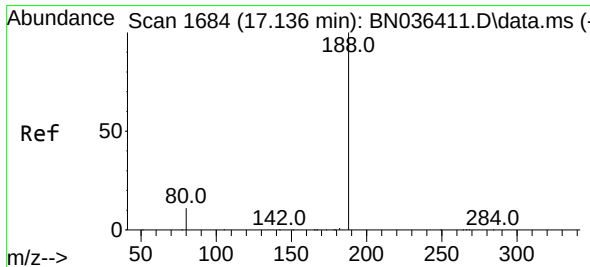
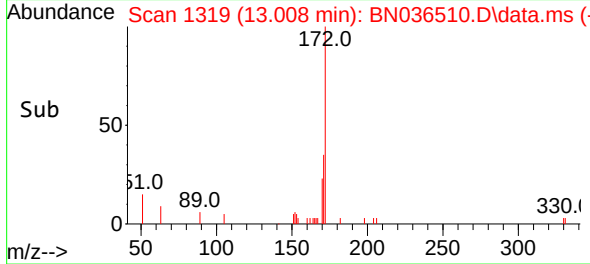
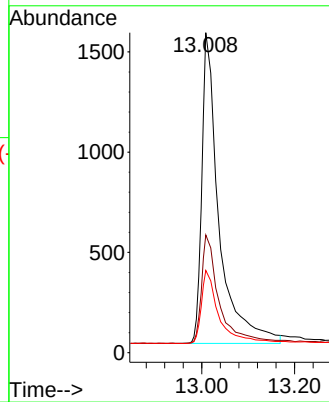
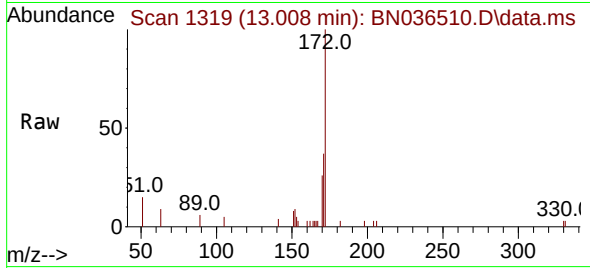




#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 13.008 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

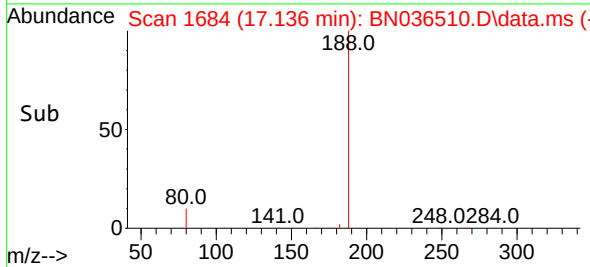
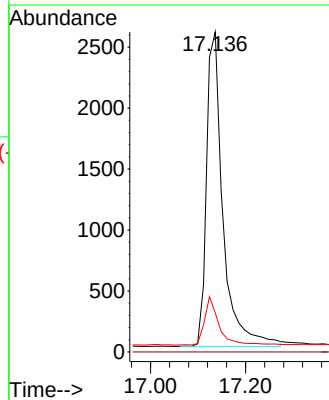
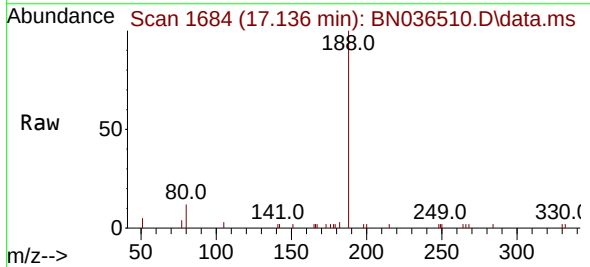
Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

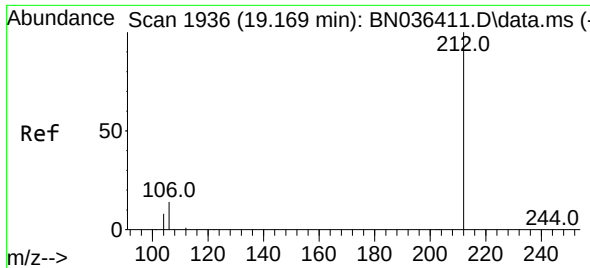
Tgt Ion:	172	Resp:	3919
Ion Ratio	Lower	Upper	
172	100		
171	36.8	29.6	44.4
170	25.7	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.136 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

Tgt Ion:	188	Resp:	6199
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	12.3	9.8	14.6

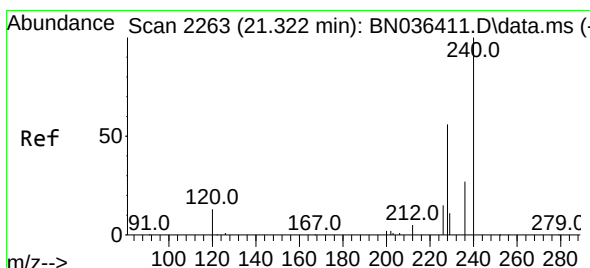
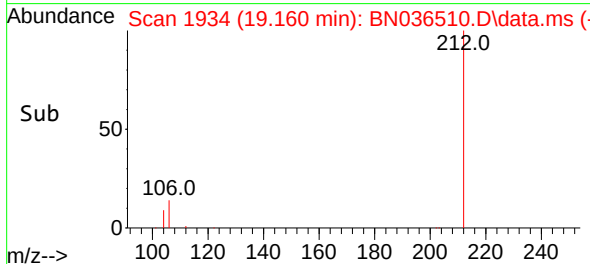
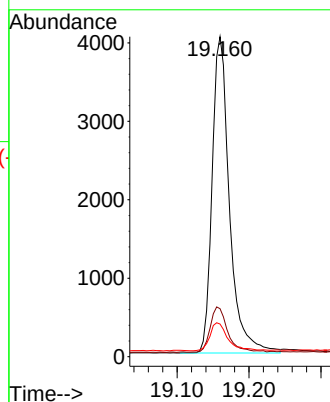
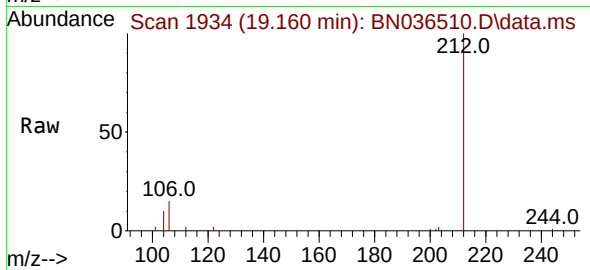




#27
Fluoranthene-d10
Concen: 0.390 ng
RT: 19.160 min Scan# 1936
Delta R.T. -0.009 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

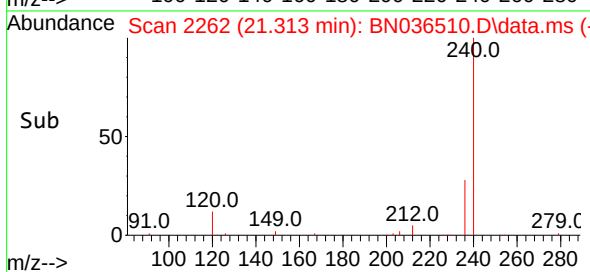
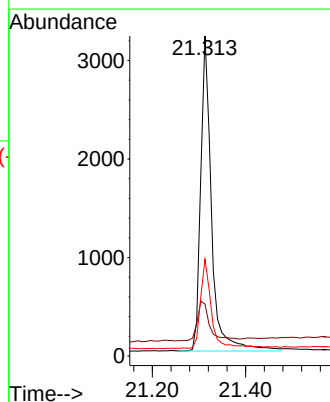
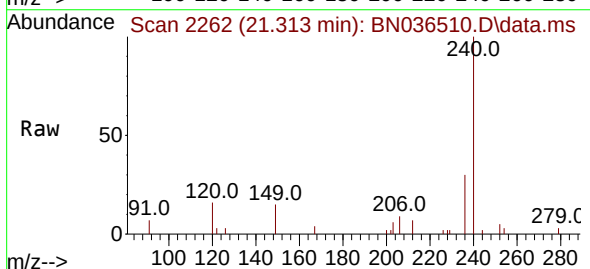
Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

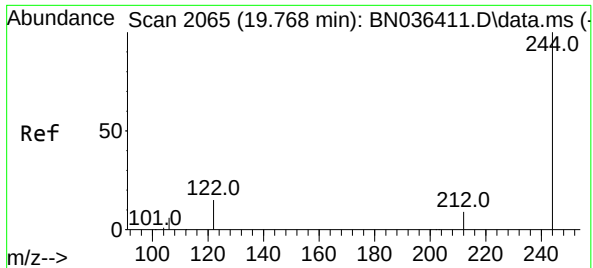
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.5	17.3
104	9.3	7.1	10.7



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.009 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.2	13.3	19.9
236	30.3	23.0	34.6

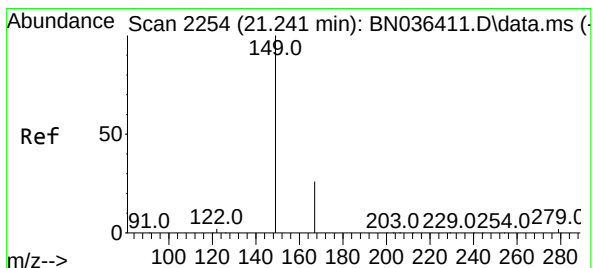
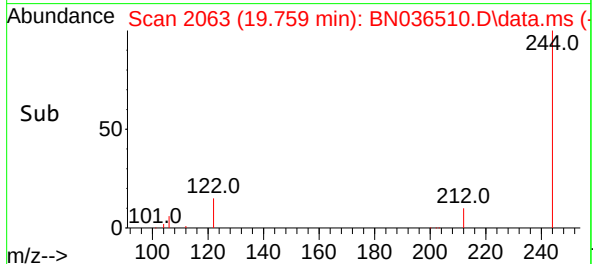
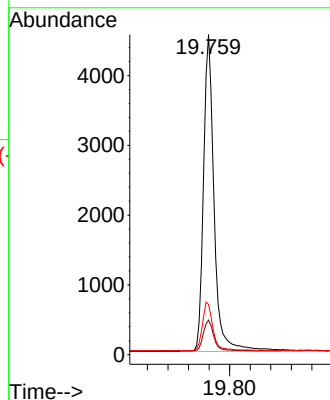
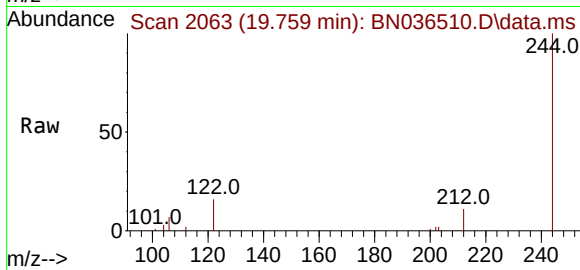




#31
Terphenyl-d14
Concen: 0.589 ng
RT: 19.759 min Scan# 2063
Delta R.T. -0.009 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

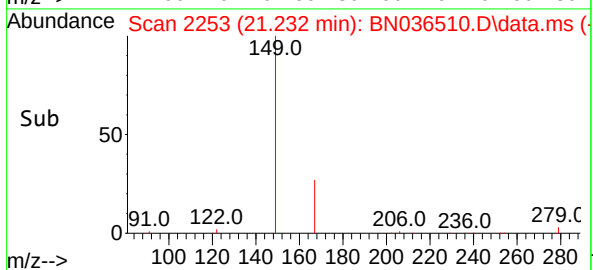
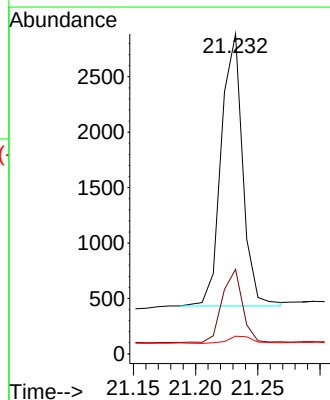
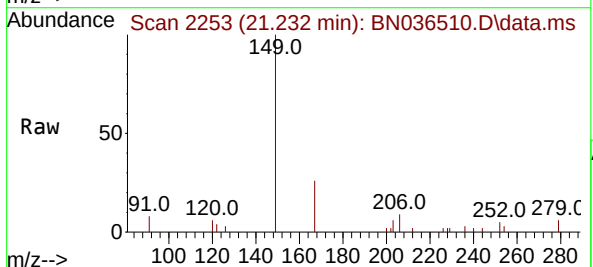
Instrument :
BNA_N
ClientSampleId :
VPB-192-HYD-20250221

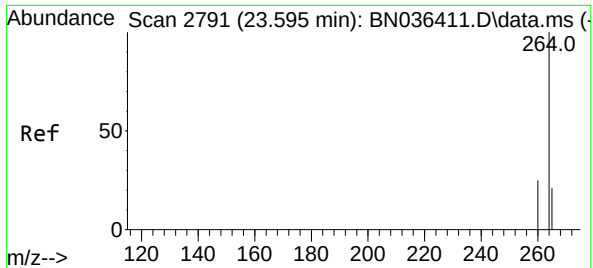
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.8	8.1	12.1
122	15.7	12.8	19.2



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.277 ng
RT: 21.232 min Scan# 2253
Delta R.T. -0.009 min
Lab File: BN036510.D
Acq: 26 Feb 2025 14:55

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.2	31.8
279	3.1	2.7	4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.578 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036510.D

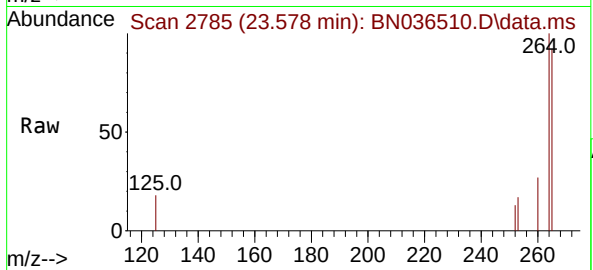
Acq: 26 Feb 2025 14:55

Instrument :

BNA_N

ClientSampleId :

VPB-192-HYD-20250221



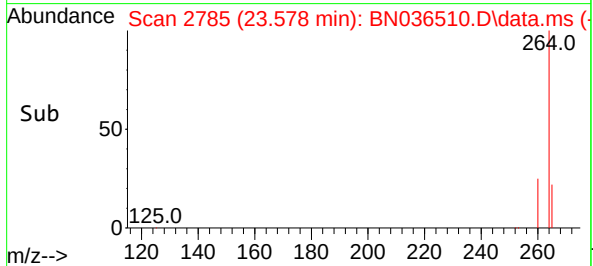
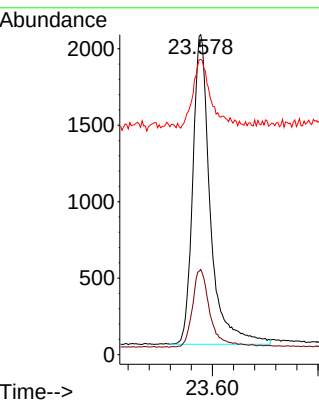
Tgt Ion:264 Resp: 4672

Ion	Ratio	Lower	Upper

264	100		

260	26.6	20.9	31.3

265	92.3	60.7	91.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/21/25
Project:	CTO WE13	Date Received:	02/24/25
Client Sample ID:	BP-VPB-192-EB-20250221	SDG No.:	Q1423
Lab Sample ID:	Q1423-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	900 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036511.D	1	02/26/25 08:52	02/26/25 15:31	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.50	*	53 - 106		124%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.63	*	58 - 132		158%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2560	7.739				
1146-65-2	Naphthalene-d8	5720	10.53				
15067-26-2	Acenaphthene-d10	3700	14.377				
1517-22-2	Phenanthrene-d10	7690	17.124				
1719-03-5	Chrysene-d12	5770	21.313				
1520-96-3	Perylene-d12	5080	23.578				

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\BN022625\
Data File : BN036511.D
Acq On : 26 Feb 2025 15:31
Operator : RC/JU
Sample : Q1423-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

Quant Time: Feb 26 15:55:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2561	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5724	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	3696	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	7691	0.400	ng	-0.01
29) Chrysene-d12	21.313	240	5768	0.400	ng	0.00
35) Perylene-d12	23.578	264	5083	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	957	0.158	ng	-0.01
5) Phenol-d6	6.923	99	596	0.084	ng	-0.01
8) Nitrobenzene-d5	8.897	82	2065	0.366	ng	-0.01
11) 2-Methylnaphthalene-d10	12.121	152	3255	0.370	ng	-0.02
14) 2,4,6-Tribromophenol	15.882	330	623	0.340	ng	0.00
15) 2-Fluorobiphenyl	13.003	172	6877	0.495	ng	-0.02
27) Fluoranthene-d10	19.155	212	9001	0.421	ng	-0.01
31) Terphenyl-d14	19.754	244	7770	0.631	ng	-0.01
Target Compounds						
9) Naphthalene	10.584	128	434	0.026	ng	# 55
12) 2-Methylnaphthalene	12.197	142	240	0.022	ng	# 82
16) Acenaphthylene	14.099	152	415	0.025	ng	# 91
17) Acenaphthene	14.441	154	256	0.023	ng	98
18) Fluorene	15.435	166	446	0.029	ng	# 96
25) Phenanthrene	17.161	178	886	0.040	ng	95
26) Anthracene	17.260	178	719	0.037	ng	97
28) Fluoranthene	19.187	202	1310	0.048	ng	# 64
30) Pyrene	19.550	202	1284	0.058	ng	99
32) Benzo(a)anthracene	21.295	228	913	0.048	ng	# 89
33) Chrysene	21.348	228	1129	0.055	ng	# 92
34) Bis(2-ethylhexyl)phtha...	21.232	149	962	0.081	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.884	276	854m	0.048	ng	
40) Dibenzo(a,h)anthracene	25.905	278	605m	0.043	ng	
41) Benzo(g,h,i)perylene	26.583	276	699	0.044	ng	# 56

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

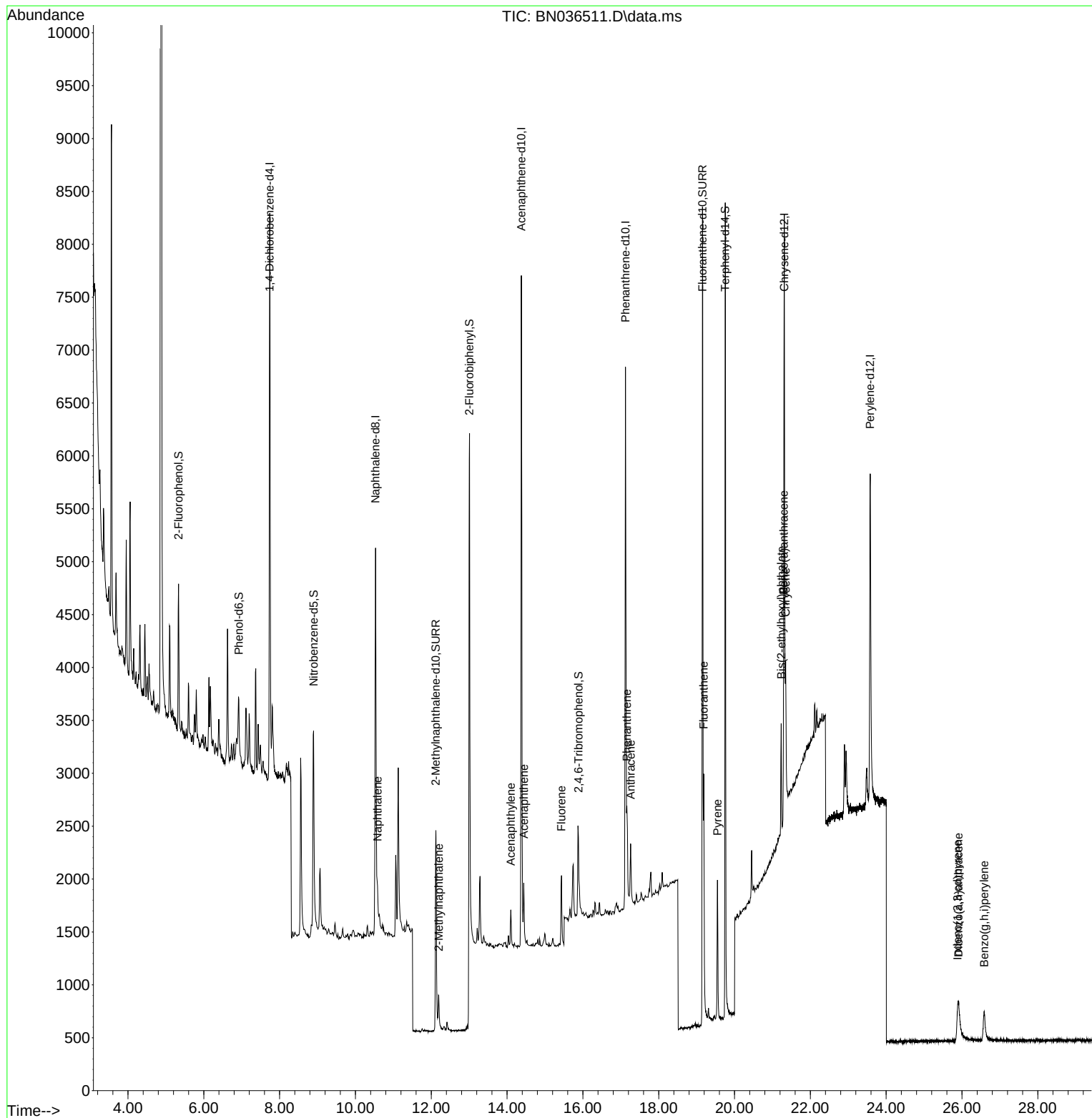
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Acq On : 26 Feb 2025 15:31
Operator : RC/JU
Sample : Q1423-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

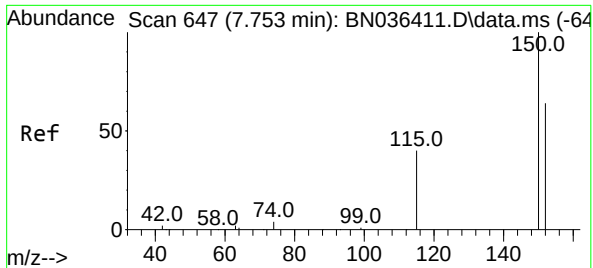
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BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

Quant Time: Feb 26 15:55:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

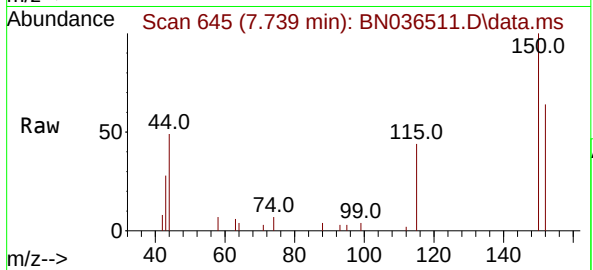
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 647
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

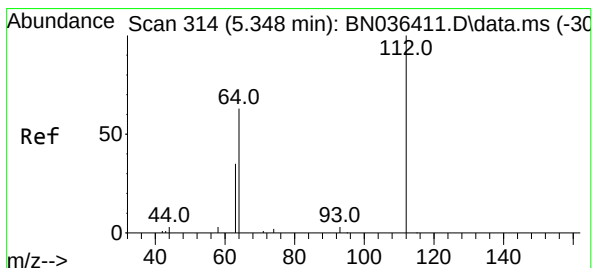
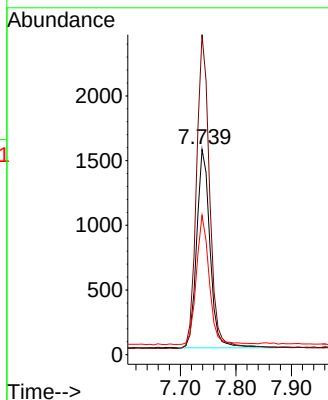
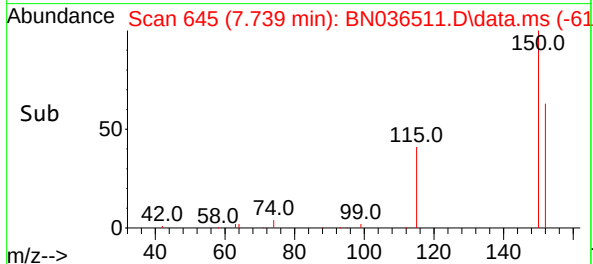
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:152 Resp: 256
Ion Ratio Lower Upper
152 100
150 155.8 123.7 185.5
115 67.9 52.5 78.7

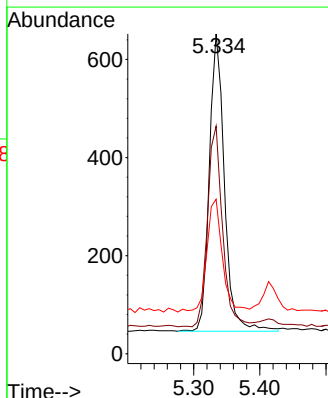
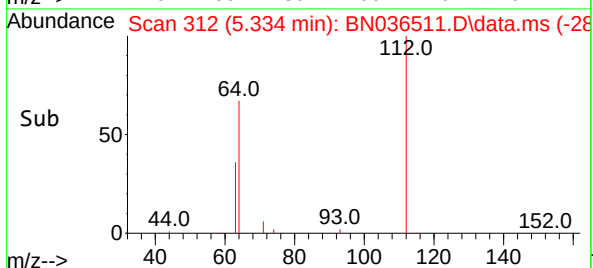
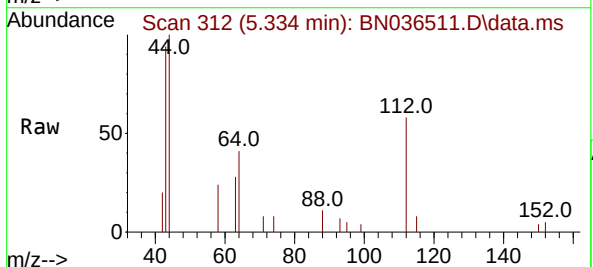
Manual Integrations
APPROVED

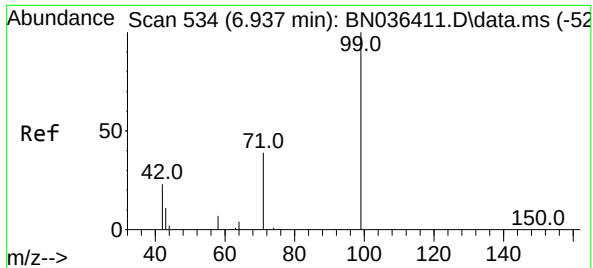
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#4
2-Fluorophenol
Concen: 0.158 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

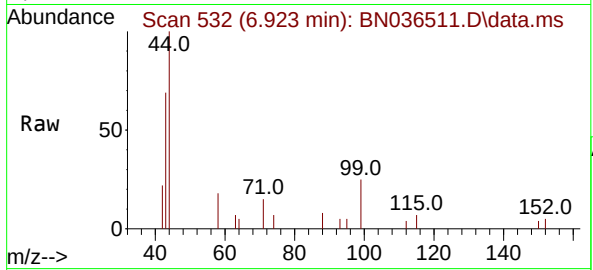
Tgt Ion:112 Resp: 957
Ion Ratio Lower Upper
112 100
64 66.5 53.4 80.0
63 39.4 30.3 45.5





#5
Phenol-d6
Concen: 0.084 ng
RT: 6.923 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

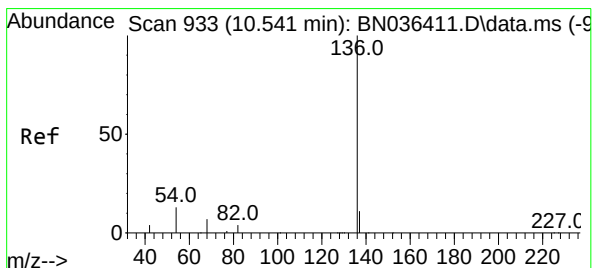
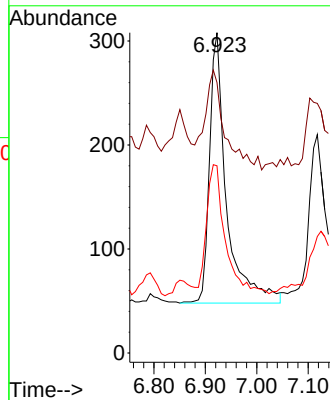
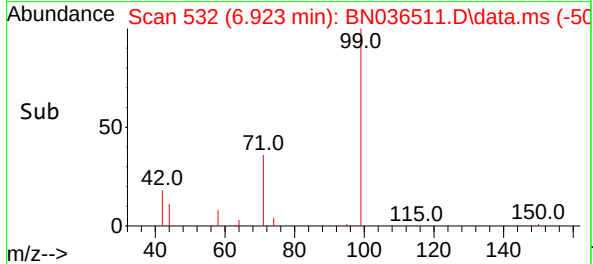
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion: 99 Resp: 590
Ion Ratio Lower Upper
99 100
42 43.8 21.7 32.5
71 52.9 32.6 49.0

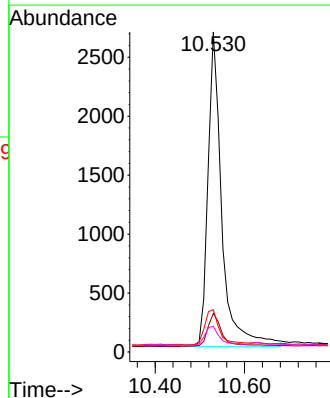
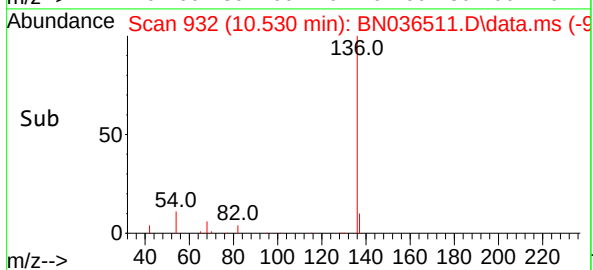
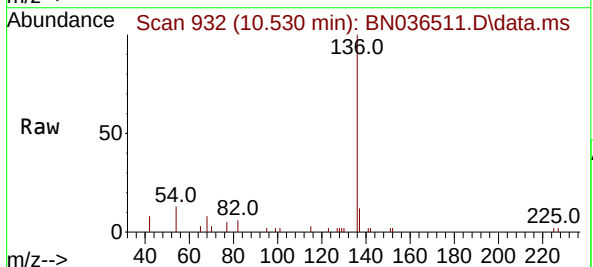
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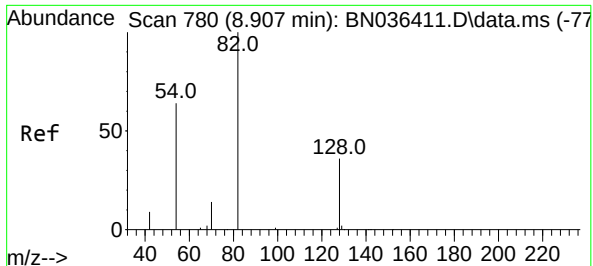
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 932
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion:136 Resp: 5724
Ion Ratio Lower Upper
136 100
137 12.0 10.1 15.1
54 13.2 11.8 17.6
68 8.0 7.2 10.8





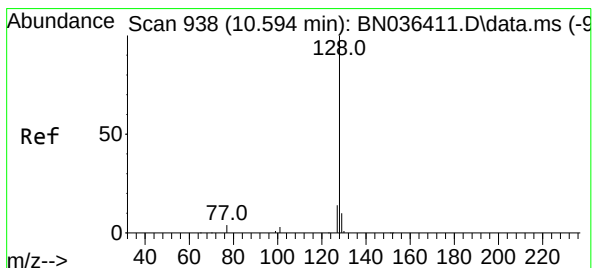
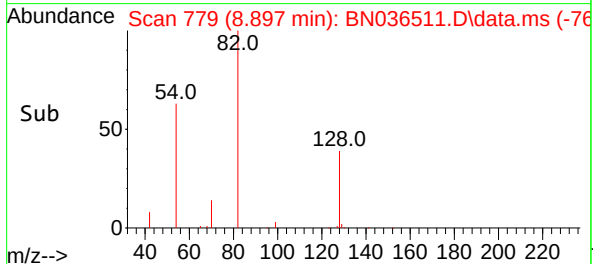
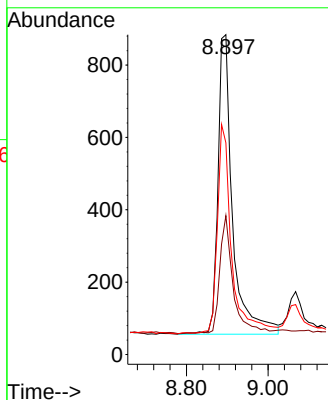
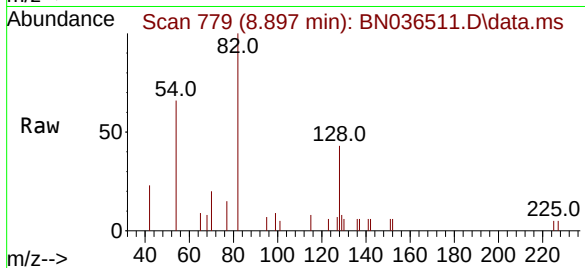
#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.897 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

Tgt Ion: 82 Resp: 206
Ion Ratio Lower Upper
82 100
128 43.4 31.9 47.9
54 66.2 53.1 79.7

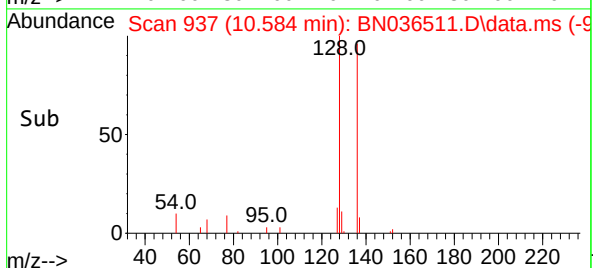
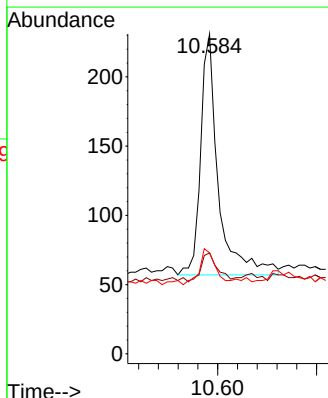
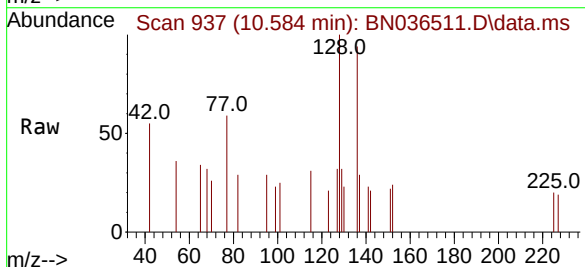
Manual Integrations
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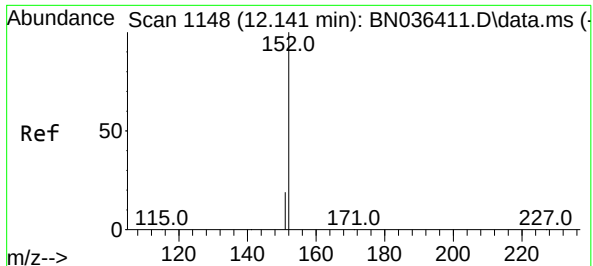
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#9
Naphthalene
Concen: 0.026 ng
RT: 10.584 min Scan# 937
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

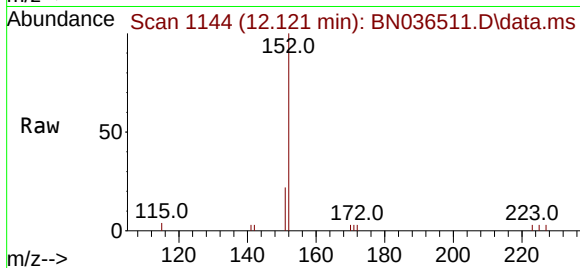
Tgt Ion:128 Resp: 434
Ion Ratio Lower Upper
128 100
129 31.6 9.6 14.4#
127 31.6 12.0 18.0#





#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.121 min Scan# 1144
Delta R.T. -0.020 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

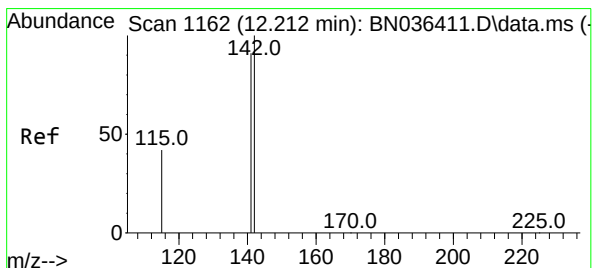
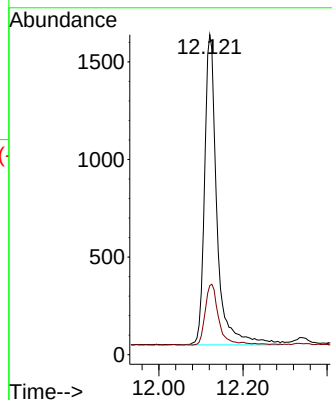
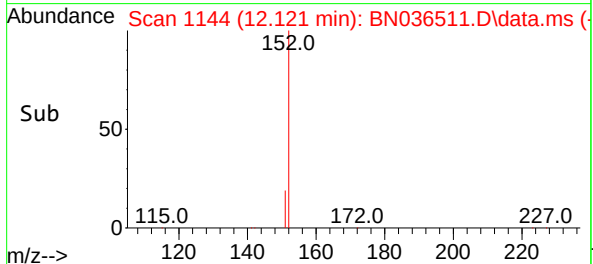
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:152 Resp: 325
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0

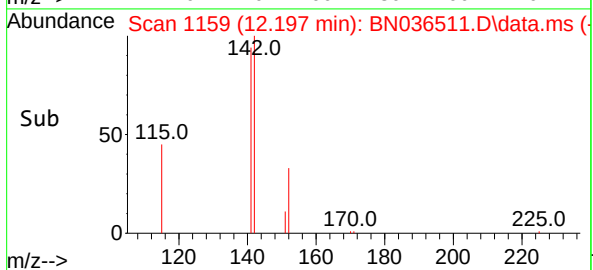
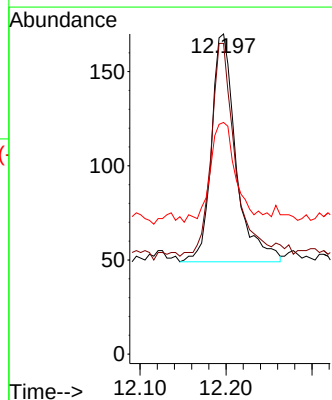
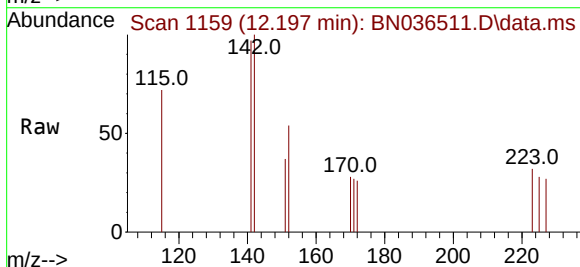
Manual Integrations
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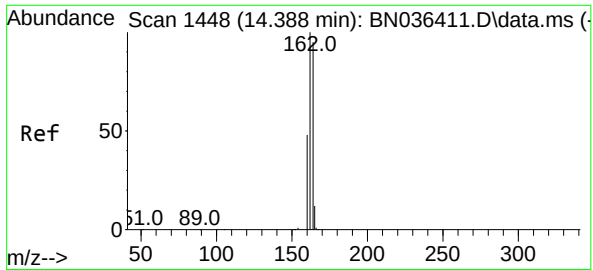
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#12
2-Methylnaphthalene
Concen: 0.022 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.015 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

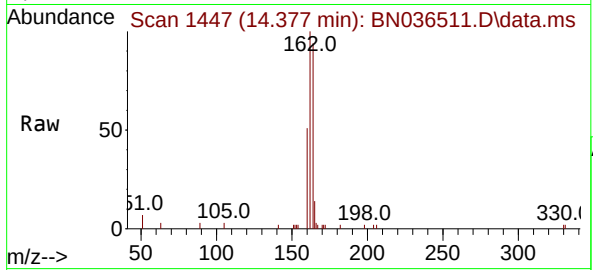
Tgt Ion:142 Resp: 240
Ion Ratio Lower Upper
142 100
141 97.1 72.8 109.2
115 72.4 35.5 53.3#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

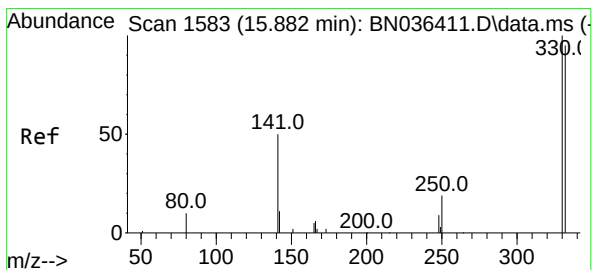
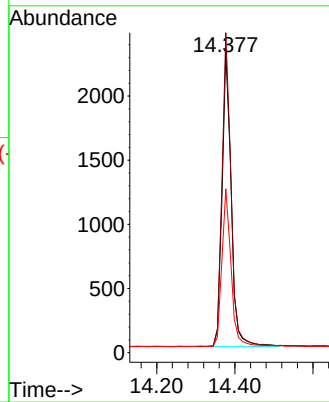
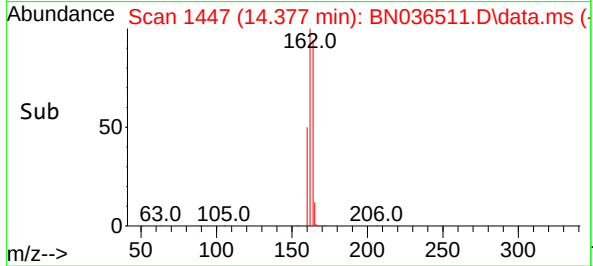
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:164 Resp: 3690
Ion Ratio Lower Upper
164 100
162 106.5 84.1 126.1
160 54.5 41.4 62.0

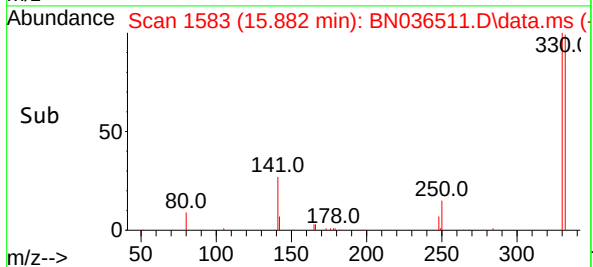
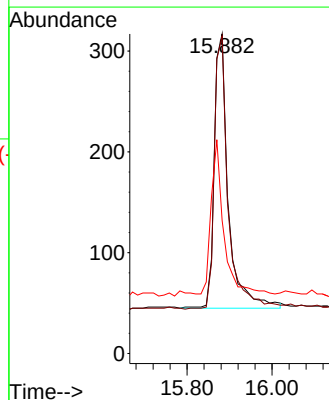
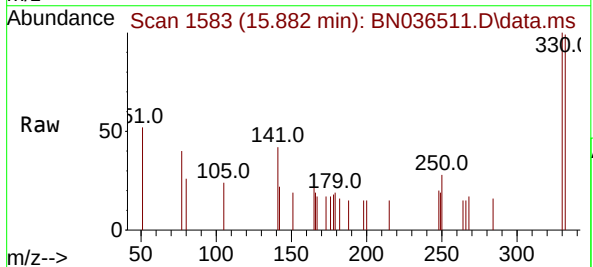
Manual Integrations
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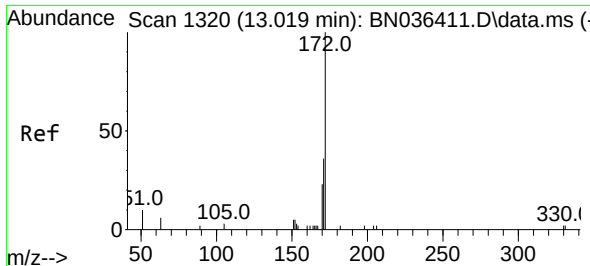
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#14
2,4,6-Tribromophenol
Concen: 0.340 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

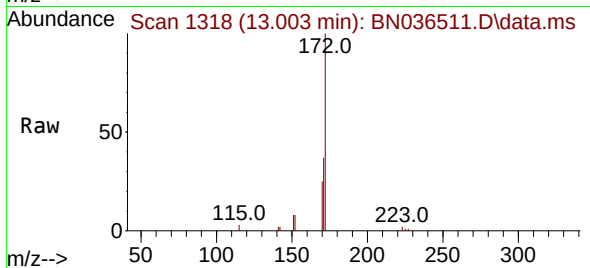
Tgt Ion:330 Resp: 623
Ion Ratio Lower Upper
330 100
332 98.6 76.6 114.8
141 50.7 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.495 ng
RT: 13.003 min Scan# 11
Delta R.T. -0.016 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

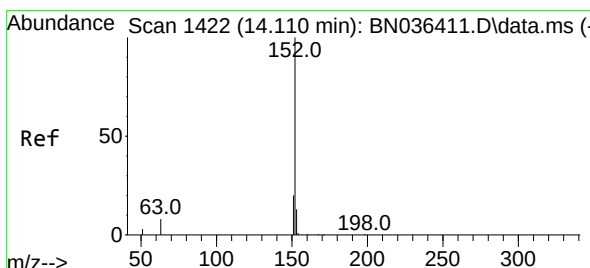
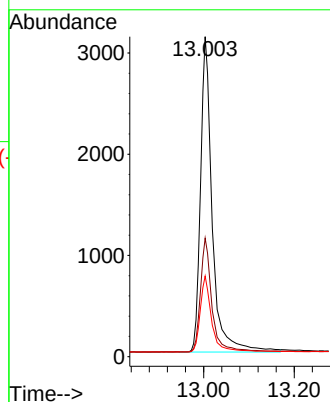
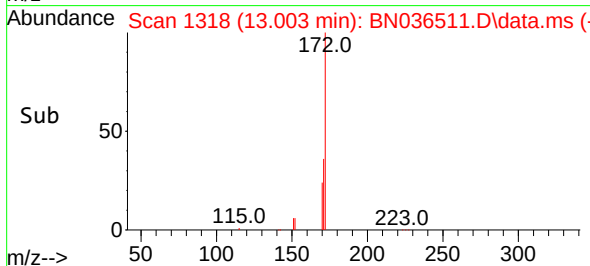
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:172 Resp: 687
Ion Ratio Lower Upper
172 100
171 37.1 29.6 44.4
170 25.2 19.8 29.6

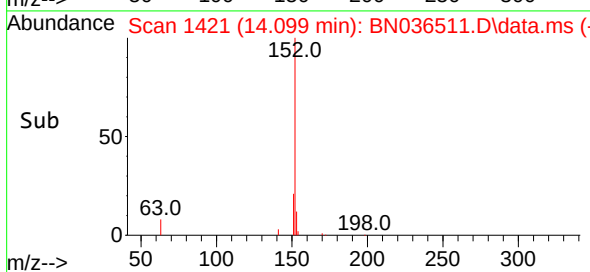
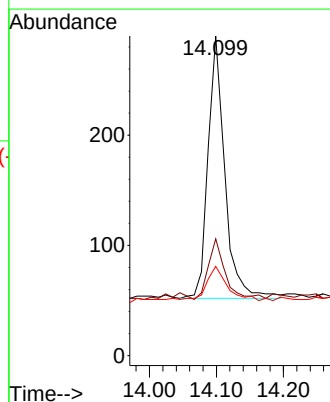
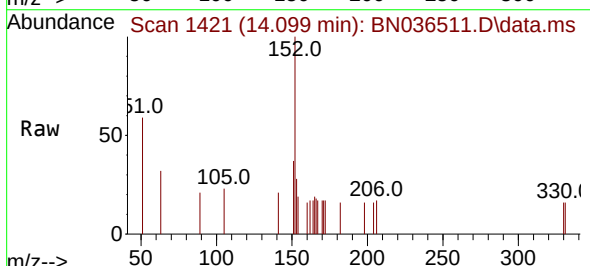
Manual Integrations
APPROVED

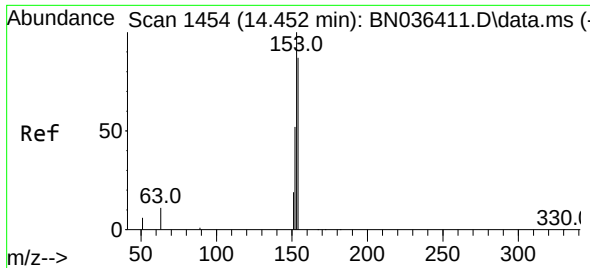
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#16
Acenaphthylene
Concen: 0.025 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

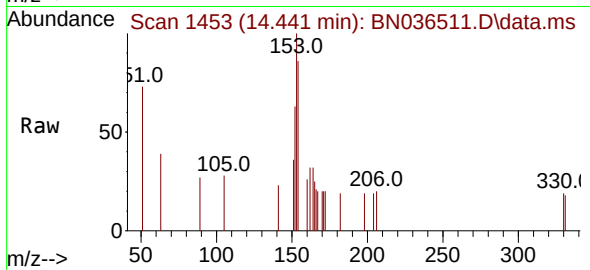
Tgt Ion:152 Resp: 415
Ion Ratio Lower Upper
152 100
151 22.7 15.8 23.8
153 17.6 10.2 15.2#





#17
Acenaphthene
Concen: 0.023 ng
RT: 14.441 min Scan# 1453
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

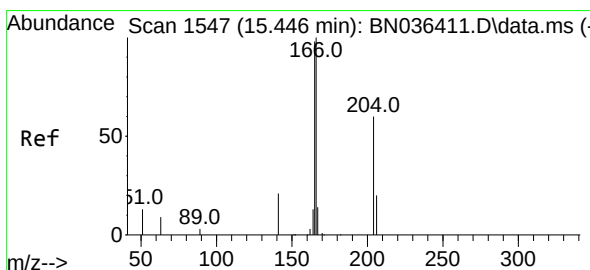
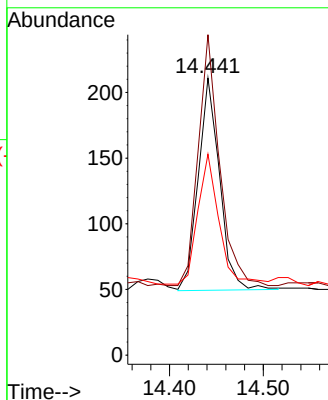
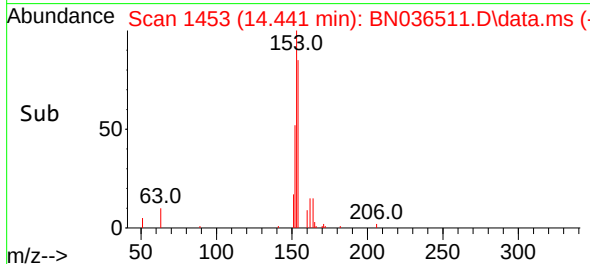
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:154 Resp: 250
Ion Ratio Lower Upper
154 100
153 118.8 93.3 139.9
152 62.9 48.8 73.2

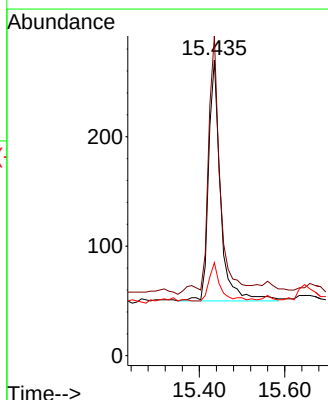
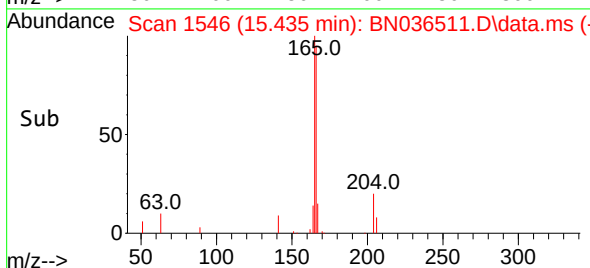
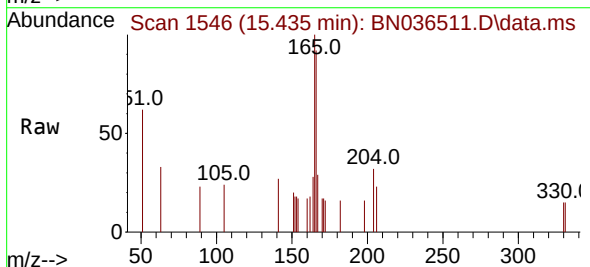
Manual Integrations
APPROVED

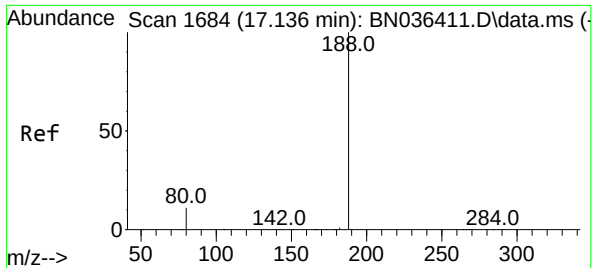
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#18
Fluorene
Concen: 0.029 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

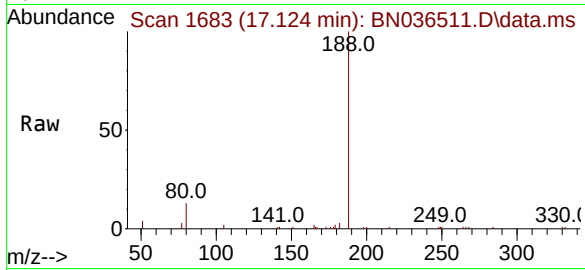
Tgt Ion:166 Resp: 446
Ion Ratio Lower Upper
166 100
165 102.9 79.5 119.3
167 15.9 10.4 15.6#





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

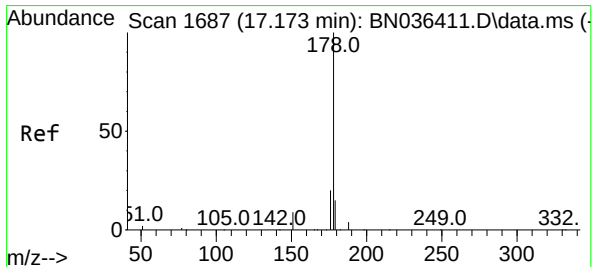
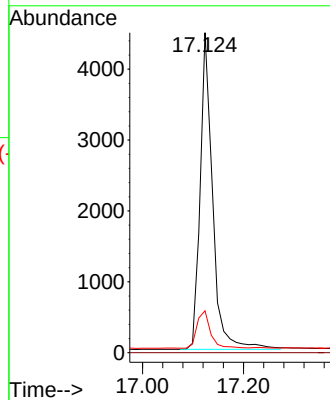
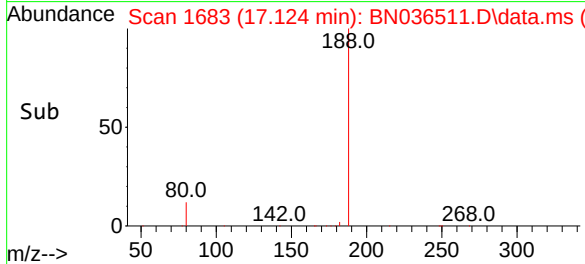
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:188 Resp: 769
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.1 9.8 14.6

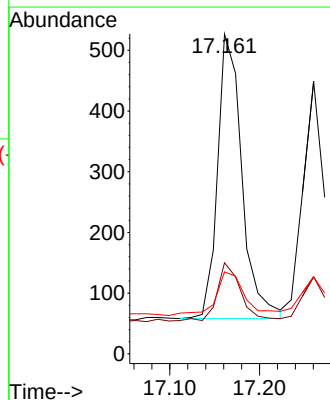
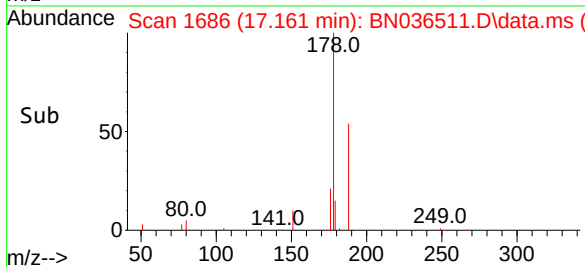
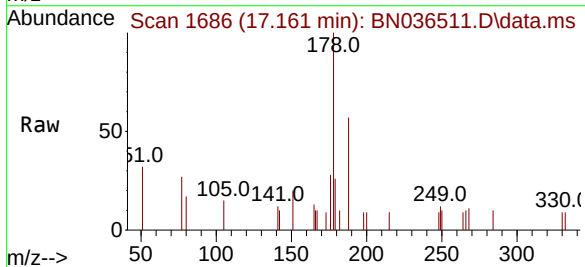
Manual Integrations
APPROVED

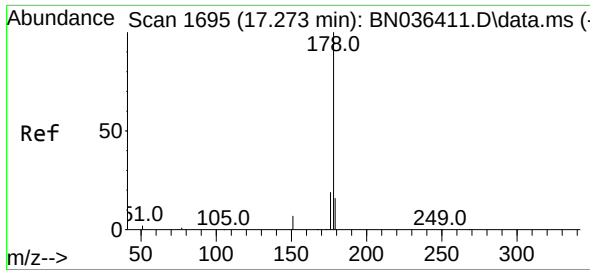
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#25
Phenanthrene
Concen: 0.040 ng
RT: 17.161 min Scan# 1686
Delta R.T. -0.012 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

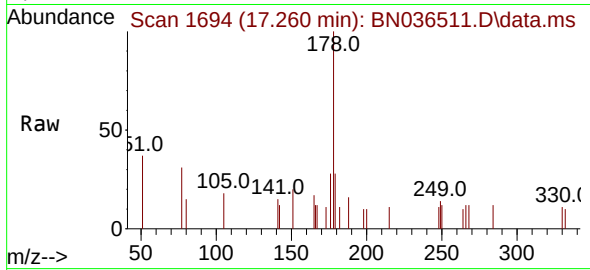
Tgt Ion:178 Resp: 886
Ion Ratio Lower Upper
178 100
176 21.2 15.7 23.5
179 18.4 12.4 18.6





#26
Anthracene
Concen: 0.037 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

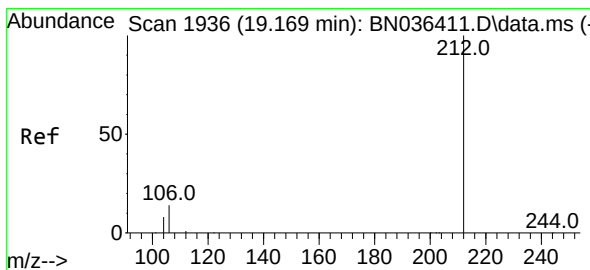
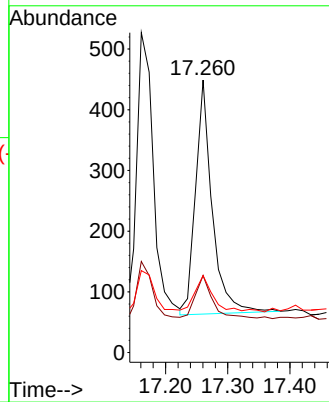
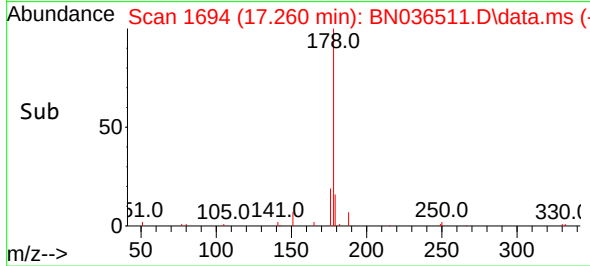
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:178 Resp: 719
Ion Ratio Lower Upper
178 100
176 18.5 14.9 22.3
179 18.4 12.4 18.6

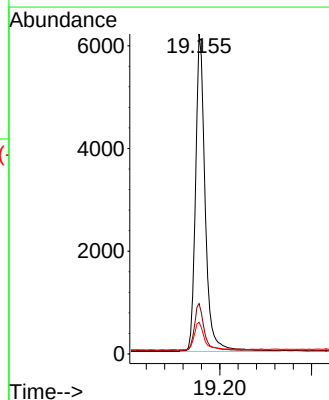
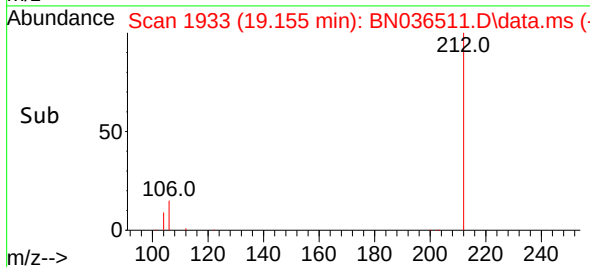
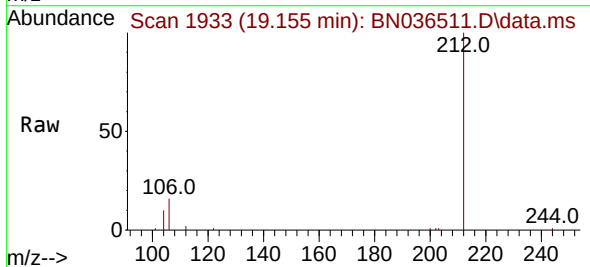
Manual Integrations
APPROVED

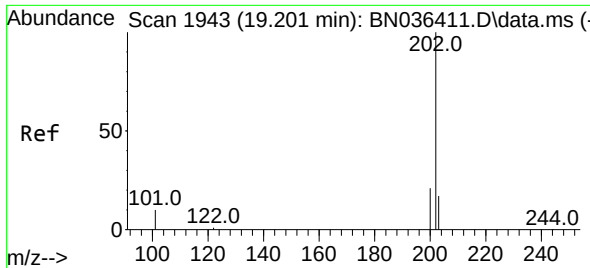
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#27
Fluoranthene-d10
Concen: 0.421 ng
RT: 19.155 min Scan# 1933
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

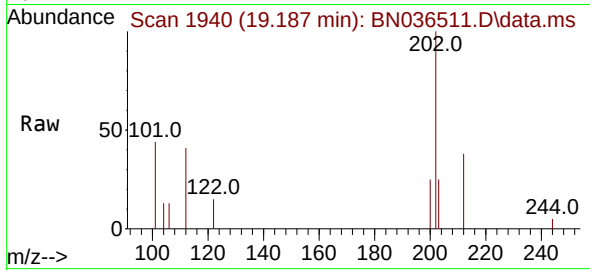
Tgt Ion:212 Resp: 9001
Ion Ratio Lower Upper
212 100
106 15.3 11.5 17.3
104 9.3 7.1 10.7





#28
Fluoranthene
Concen: 0.048 ng
RT: 19.187 min Scan# 1943
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

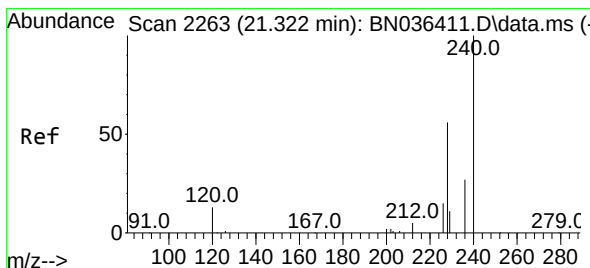
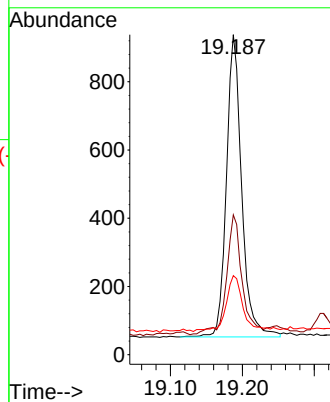
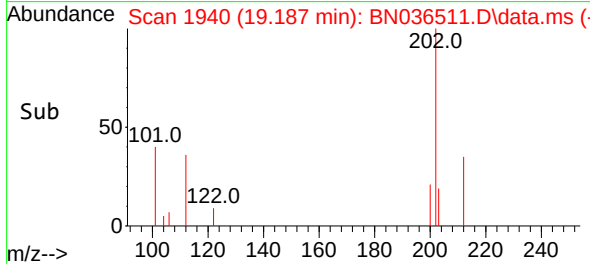
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:202 Resp: 1310
Ion Ratio Lower Upper
202 100
101 40.3 9.2 13.8
203 20.7 13.4 20.0

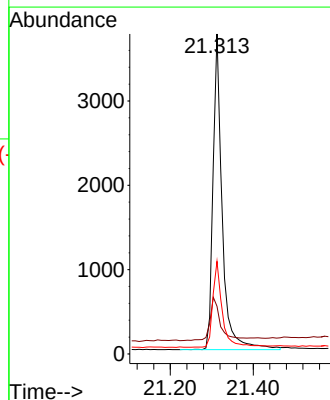
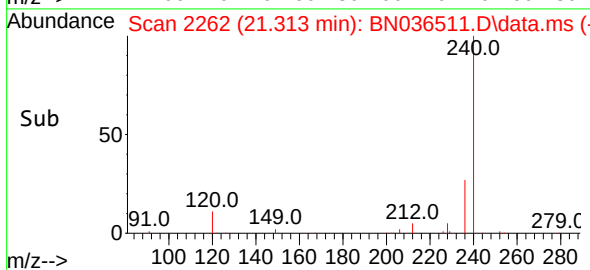
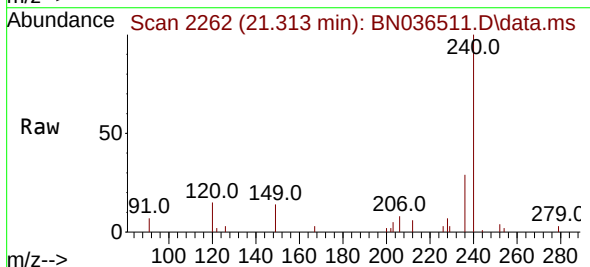
Manual Integrations
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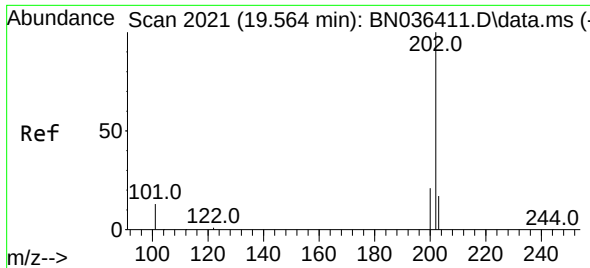
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.009 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

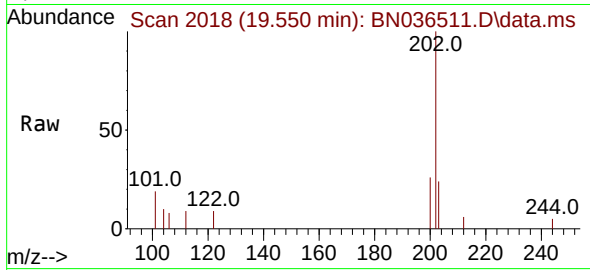
Tgt Ion:240 Resp: 5768
Ion Ratio Lower Upper
240 100
120 14.9 13.3 19.9
236 29.0 23.0 34.6





#30
Pyrene
Concen: 0.058 ng
RT: 19.550 min Scan# 2021
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

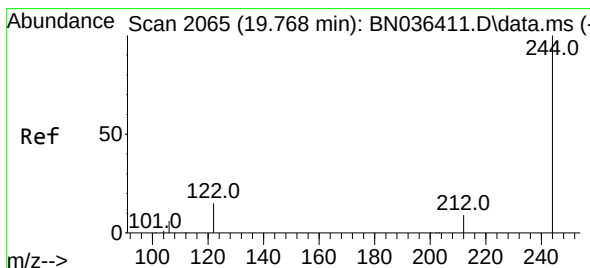
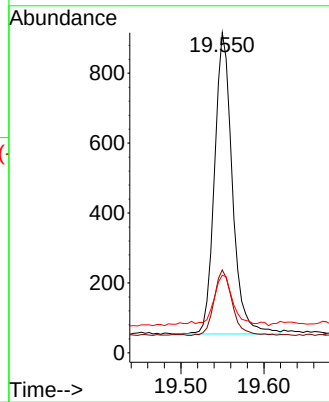
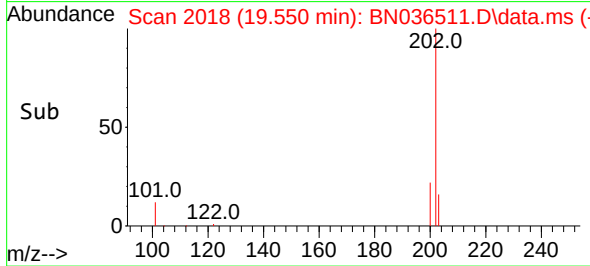
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:202 Resp: 1284
Ion Ratio Lower Upper
202 100
200 22.0 16.9 25.3
203 17.6 13.9 20.9

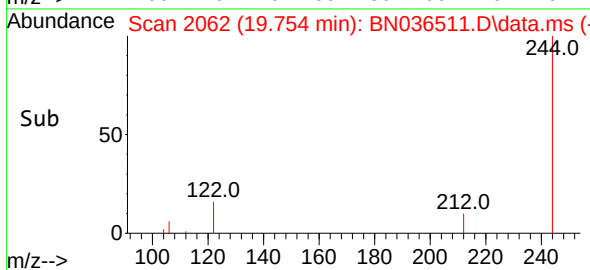
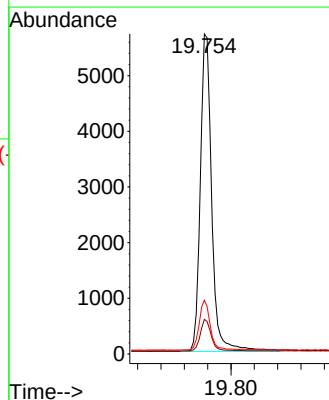
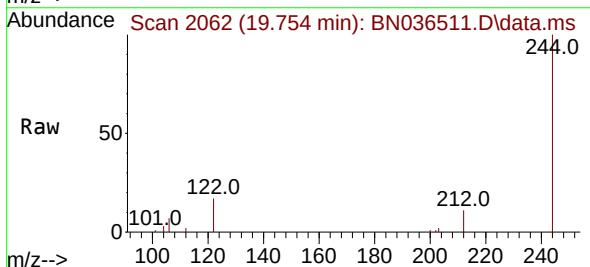
Manual Integrations
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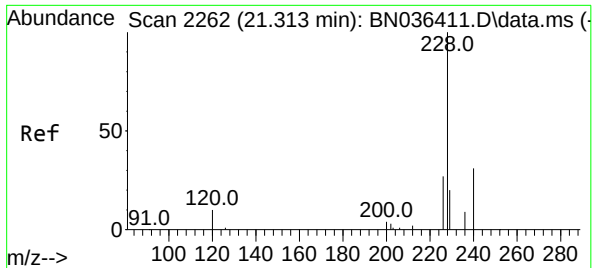
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#31
Terphenyl-d14
Concen: 0.631 ng
RT: 19.754 min Scan# 2062
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

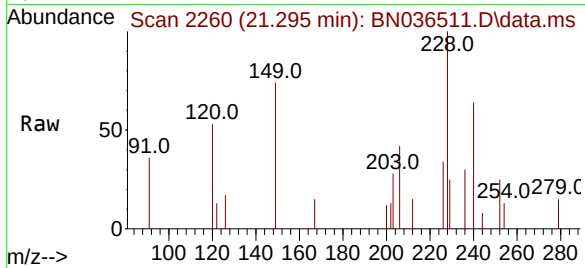
Tgt Ion:244 Resp: 7770
Ion Ratio Lower Upper
244 100
212 10.8 8.1 12.1
122 16.8 12.8 19.2





#32
Benzo(a)anthracene
Concen: 0.048 ng
RT: 21.295 min Scan# 2126
Delta R.T. -0.018 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

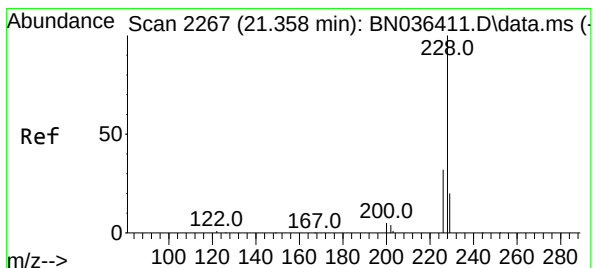
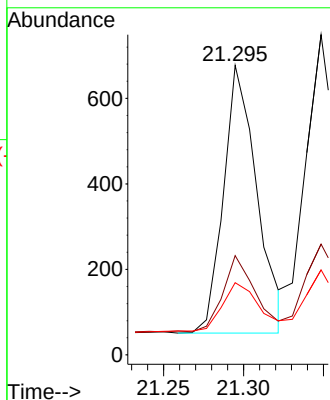
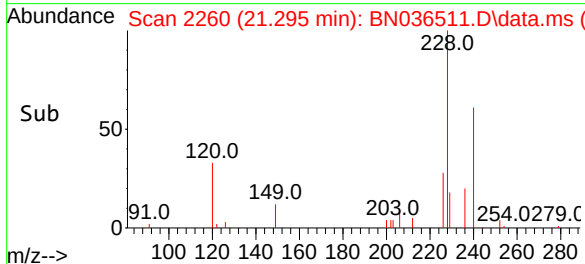
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:228 Resp: 911
Ion Ratio Lower Upper
228 100
226 34.3 22.2 33.2
229 25.0 16.5 24.7

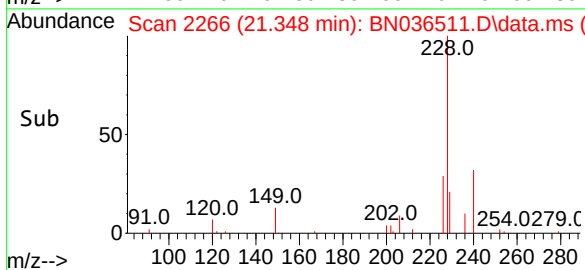
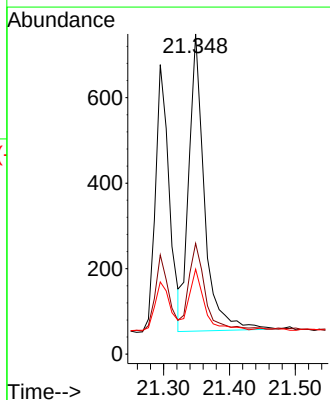
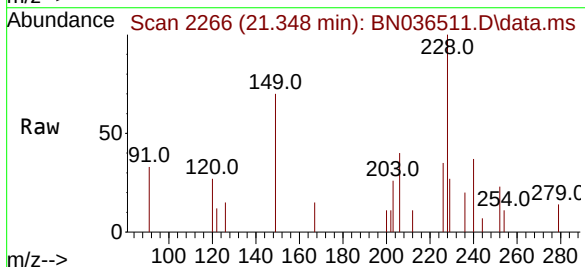
Manual Integrations
APPROVED

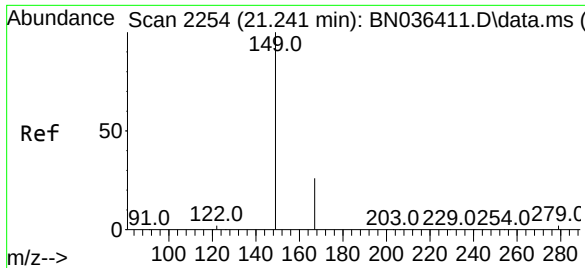
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#33
Chrysene
Concen: 0.055 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

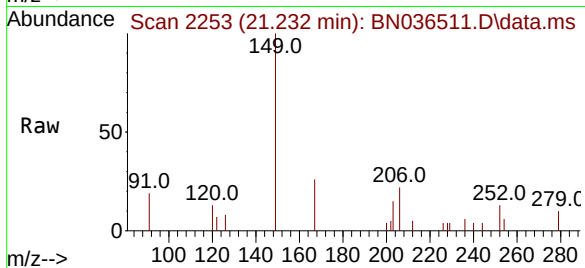
Tgt Ion:228 Resp: 1129
Ion Ratio Lower Upper
228 100
226 34.6 25.5 38.3
229 26.6 16.4 24.6





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.081 ng
RT: 21.232 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

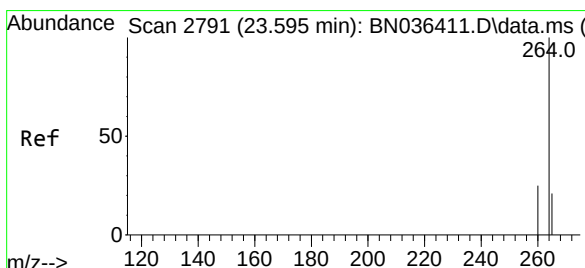
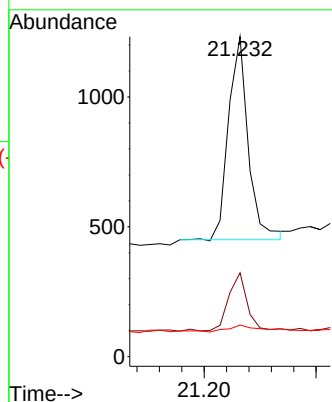
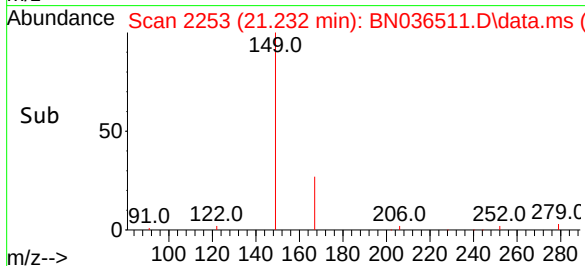
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion:149 Resp: 962
Ion Ratio Lower Upper
149 100
167 29.1 21.2 31.8
279 6.3 2.7 4.1

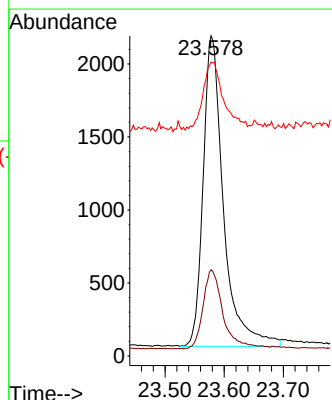
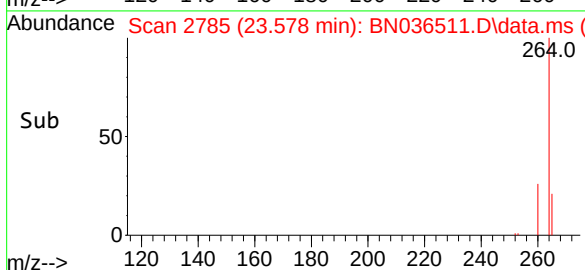
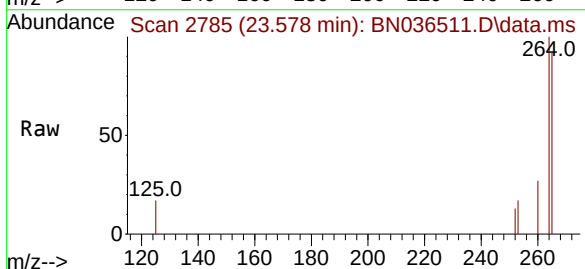
Manual Integrations
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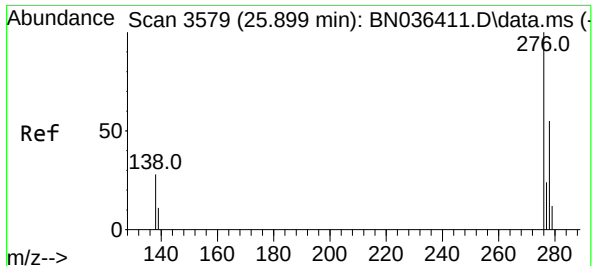
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.578 min Scan# 2785
Delta R.T. -0.018 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

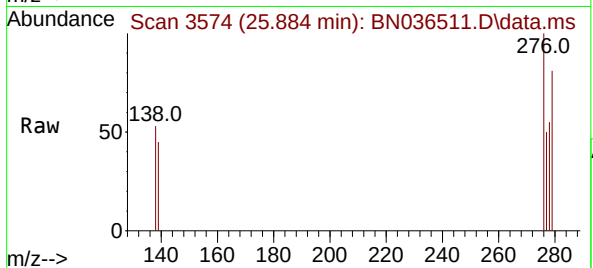
Tgt Ion:264 Resp: 5083
Ion Ratio Lower Upper
264 100
260 27.0 20.9 31.3
265 91.8 60.7 91.1





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.048 ng m
RT: 25.884 min Scan# 3574
Delta R.T. -0.015 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

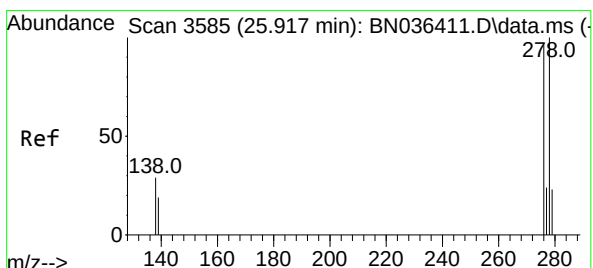
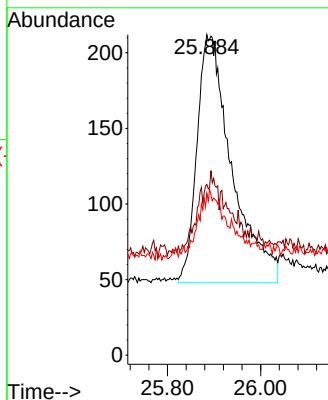
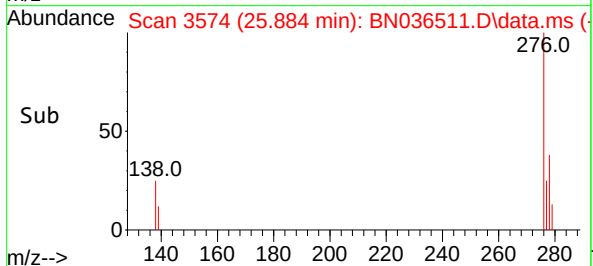
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion: 276 Resp: 854
Ion Ratio Lower Upper
276 100
138 6.3 22.2 33.2#
277 15.3 19.8 29.6#

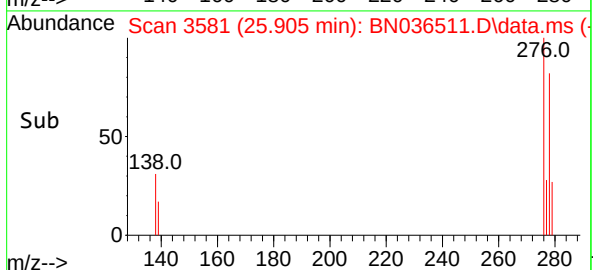
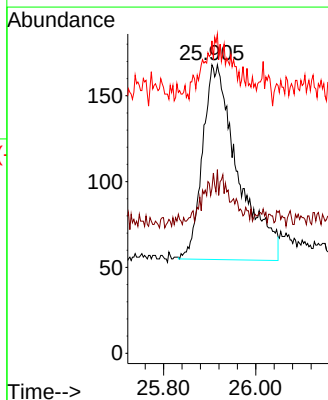
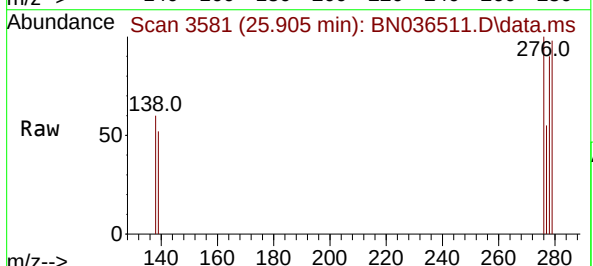
Manual Integrations
APPROVED

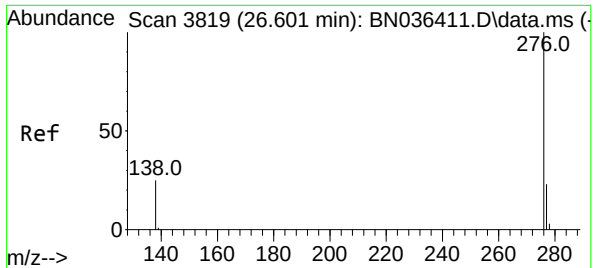
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#40
Dibenzo(a,h)anthracene
Concen: 0.043 ng m
RT: 25.905 min Scan# 3581
Delta R.T. -0.012 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

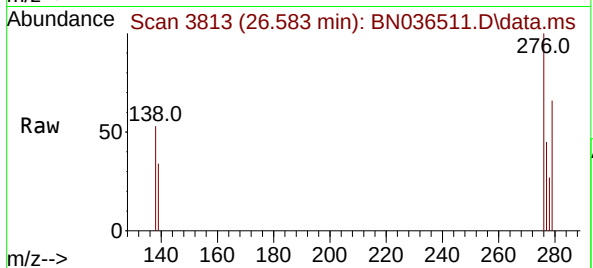
Tgt Ion: 278 Resp: 605
Ion Ratio Lower Upper
278 100
139 57.1 18.5 27.7#
279 108.3 24.8 37.2#





#41
Benzo(g,h,i)perylene
Concen: 0.044 ng
RT: 26.583 min Scan# 3813
Delta R.T. -0.018 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

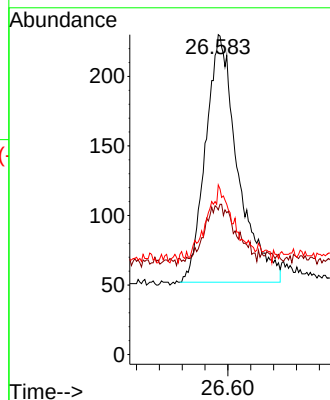
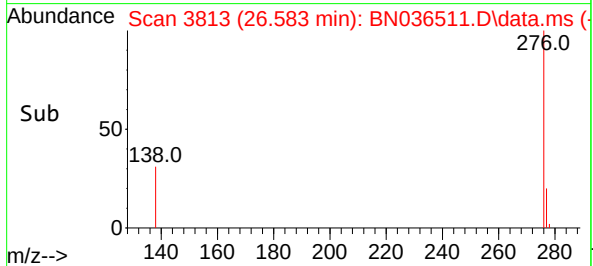
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



Tgt Ion: 276 Resp: 699
Ion Ratio Lower Upper
276 100
277 45.2 20.7 31.1
138 53.0 21.8 32.6

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025





CALIBRATION SUMMARY

1
2
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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN021025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 11 01:17:14 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036409.D 0.2 =BN036410.D 0.4 =BN036411.D 0.8 =BN036412.D 1.6 =BN036413.D 3.2 =BN036414.D 5.0 =BN036415.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	0.555	0.437	0.433	0.414	0.411	0.433	0.381	0.438	12.66
3)	n-Nitrosodimet...	0.906	0.779	0.764	0.724	0.708	0.769	0.670	0.760	9.90
4) S	2-Fluorophenol	1.009	0.954	0.936	0.920	0.914	0.999	0.885	0.945	4.80
5) S	Phenol-d6	1.134	1.007	1.032	1.062	1.099	1.267	1.164	1.109	8.00
6)	bis(2-Chloroet...	1.382	1.070	1.086	1.129	1.120	1.225	1.107	1.160	9.48
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.500	0.363	0.365	0.370	0.367	0.417	0.381	0.395	12.70
9)	Naphthalene	1.400	1.141	1.116	1.088	1.075	1.186	1.073	1.154	10.01
10)	Hexachlorobuta...	0.319	0.293	0.283	0.272	0.264	0.282	0.253	0.281	7.67
11) SURR2	Methylnaphth...	0.647	0.583	0.602	0.588	0.597	0.668	0.618	0.615	5.19
12)	2-Methylnaphth...	0.833	0.712	0.738	0.721	0.726	0.816	0.750	0.757	6.40
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.196	0.181	0.186	0.184	0.195	0.226	0.219	0.198	8.90
15) S	2-Fluorobiphenyl	1.409	1.390	1.377	1.491	1.564	1.738	1.558	1.504	8.57
16)	Acenaphthylene	1.807	1.667	1.692	1.683	1.734	1.964	1.820	1.767	5.98
17)	Acenaphthene	1.245	1.125	1.146	1.128	1.175	1.273	1.169	1.180	4.89
18)	Fluorene	1.696	1.630	1.661	1.627	1.669	1.829	1.646	1.680	4.17
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.071	0.067	0.069	0.074	0.084	0.107		0.078	19.60
21)	4-Bromophenyl-...	0.243	0.227	0.231	0.232	0.236	0.264	0.238	0.239	5.15
22)	Hexachlorobenzene	0.305	0.296	0.284	0.287	0.289	0.317	0.285	0.295	4.11
23)	Atrazine	0.196	0.190	0.187	0.186	0.194	0.229	0.213	0.199	8.00
24)	Pentachlorophenol	0.140	0.125	0.122	0.122	0.134	0.170	0.167	0.140	14.74
25)	Phenanthrene	1.233	1.090	1.095	1.112	1.138	1.273	1.153	1.156	6.12
26)	Anthracene	0.990	0.933	0.967	0.978	1.015	1.167	1.088	1.020	7.92
27) SURR	Fluoranthene-d10	1.109	1.043	1.063	1.059	1.098	1.258	1.156	1.112	6.70
28)	Fluoranthene	1.441	1.323	1.353	1.356	1.404	1.607	1.461	1.421	6.76
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.584	1.568	1.534	1.490	1.488	1.629	1.492	1.541	3.59
31) S	Terphenyl-d14	0.860	0.847	0.852	0.829	0.834	0.913	0.843	0.854	3.27
32)	Benzo(a)anthra...	1.257	1.276	1.293	1.255	1.300	1.471	1.362	1.316	5.86
33)	Chrysene	1.449	1.456	1.360	1.414	1.404	1.527	1.366	1.425	4.08
34)	Bis(2-ethylhex...	0.902	0.875	0.777	0.745	0.761	0.861	0.819	0.820	7.45
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN021025.M

36)	Indeno(1,2,3-c...	1.182	1.289	1.378	1.390	1.446	1.630	1.471	1.398	10.13
37)	Benzo(b)fluora...	1.174	1.220	1.260	1.290	1.333	1.529	1.416	1.317	9.24
38)	Benzo(k)fluora...	1.258	1.253	1.363	1.326	1.347	1.532	1.413	1.356	7.08
39) C	Benzo(a)pyrene	1.091	1.081	1.102	1.114	1.145	1.309	1.206	1.150	7.12
40)	Dibenzo(a,h)an...	0.906	1.021	1.075	1.087	1.154	1.304	1.176	1.103	11.40
41)	Benzo(g,h,i)pe...	1.140	1.212	1.254	1.230	1.269	1.400	1.249	1.250	6.27

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036409.D
 Acq On : 10 Feb 2025 12:25
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Feb 11 00:34:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

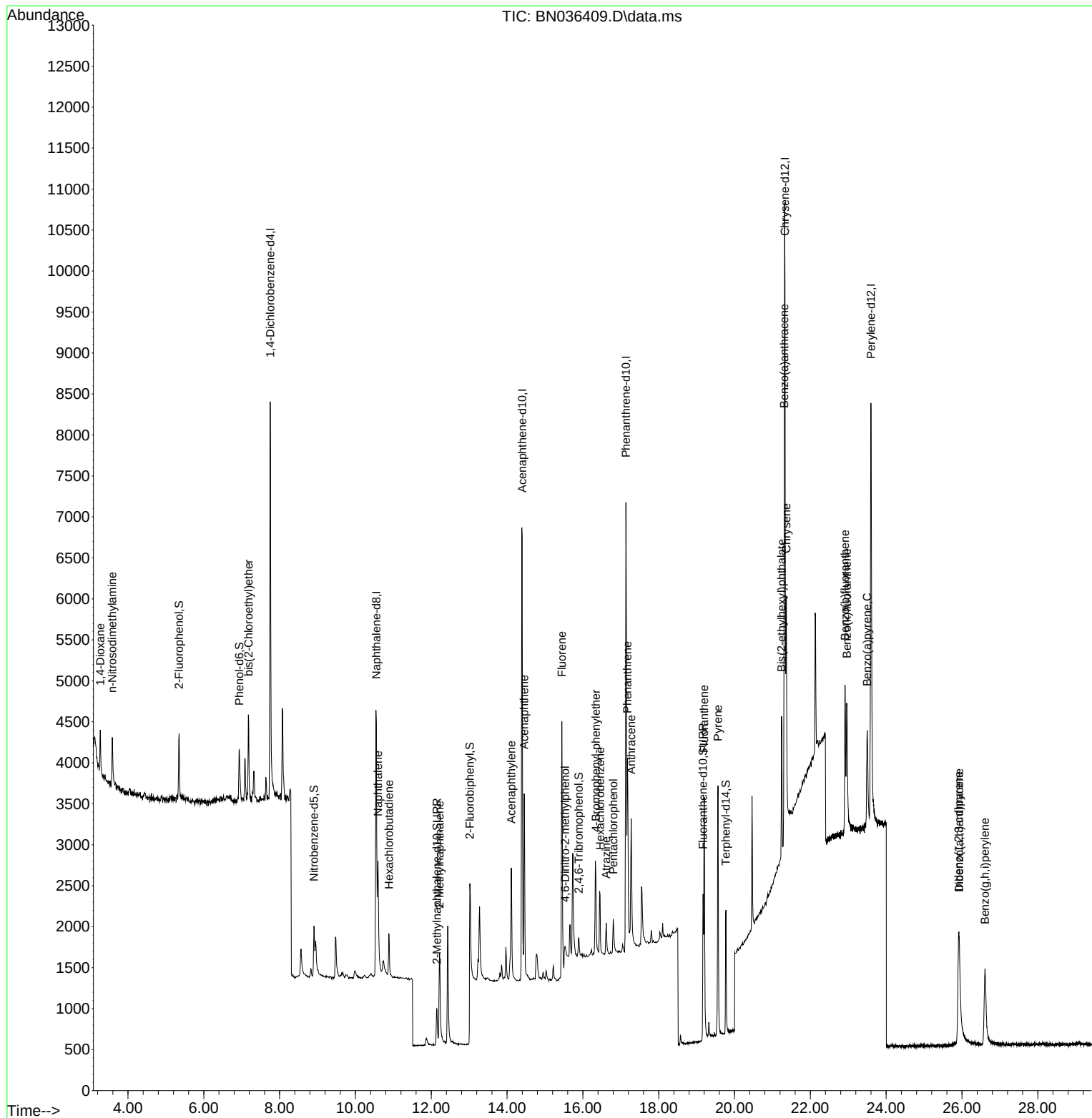
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2370	0.400	ng	0.00
7) Naphthalene-d8	10.552	136	5687	0.400	ng	# 0.01
13) Acenaphthene-d10	14.398	164	3837	0.400	ng	0.01
19) Phenanthrene-d10	17.136	188	8539	0.400	ng	0.00
29) Chrysene-d12	21.331	240	8027	0.400	ng	# 0.00
35) Perylene-d12	23.598	264	8068	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	598	0.099	ng	0.00
5) Phenol-d6	6.937	99	672	0.095	ng	0.00
8) Nitrobenzene-d5	8.907	82	711	0.134	ng	0.00
11) 2-Methylnaphthalene-d10	12.146	152	920	0.118	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	188	0.080	ng	0.01
15) 2-Fluorobiphenyl	13.019	172	1352	0.083	ng	0.00
27) Fluoranthene-d10	19.169	212	2368	0.108	ng	0.00
31) Terphenyl-d14	19.773	244	1725	0.104	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	329	0.126	ng	93
3) n-Nitrosodimethylamine	3.586	42	537	0.114	ng	# 96
6) bis(2-Chloroethyl)ether	7.183	93	819	0.140	ng	99
9) Naphthalene	10.594	128	1990	0.123	ng	# 91
10) Hexachlorobutadiene	10.883	225	454	0.089	ng	# 99
12) 2-Methylnaphthalene	12.217	142	1185	0.116	ng	96
16) Acenaphthylene	14.110	152	1733	0.098	ng	99
17) Acenaphthene	14.452	154	1194	0.098	ng	98
18) Fluorene	15.446	166	1627	0.104	ng	99
20) 4,6-Dinitro-2-methylph...	15.535	198	151	0.079	ng	# 36
21) 4-Bromophenyl-phenylether	16.342	248	518	0.089	ng	# 81
22) Hexachlorobenzene	16.453	284	651	0.085	ng	99
23) Atrazine	16.615	200	419	0.097	ng	# 85
24) Pentachlorophenol	16.801	266	298	0.089	ng	97
25) Phenanthrene	17.173	178	2633	0.105	ng	100
26) Anthracene	17.273	178	2113	0.093	ng	96
28) Fluoranthene	19.201	202	3077	0.104	ng	99
30) Pyrene	19.564	202	3179	0.099	ng	99
32) Benzo(a)anthracene	21.313	228	2523	0.088	ng	96
33) Chrysene	21.366	228	2908	0.099	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	1810	0.114	ng	99
36) Indeno(1,2,3-cd)pyrene	25.911	276	2385	0.075	ng	98
37) Benzo(b)fluoranthene	22.917	252	2367	0.083	ng	# 67
38) Benzo(k)fluoranthene	22.961	252	2537	0.087	ng	# 65
39) Benzo(a)pyrene	23.499	252	2200	0.089	ng	# 53
40) Dibenzo(a,h)anthracene	25.928	278	1827	0.073	ng	# 62
41) Benzo(g,h,i)perylene	26.607	276	2299	0.083	ng	# 83

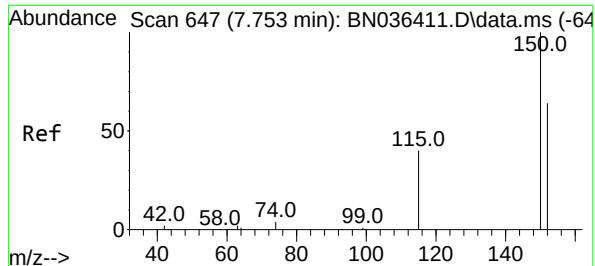
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Data File : BN036409.D
Acq On : 10 Feb 2025 12:25
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Feb 11 00:34:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

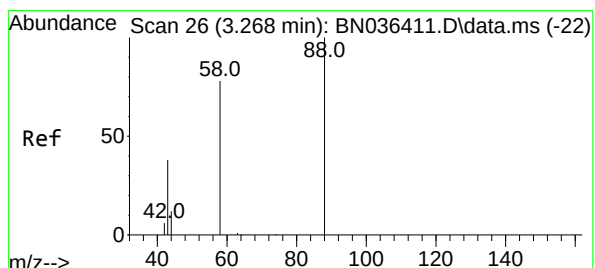
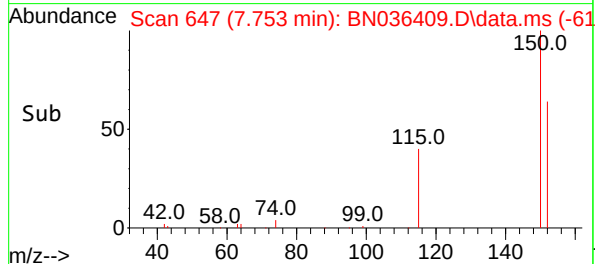
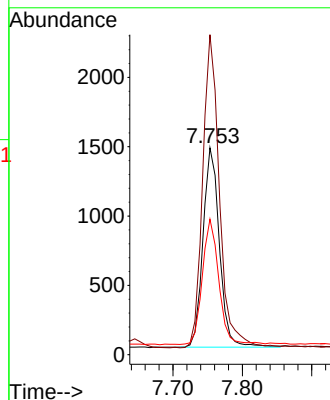
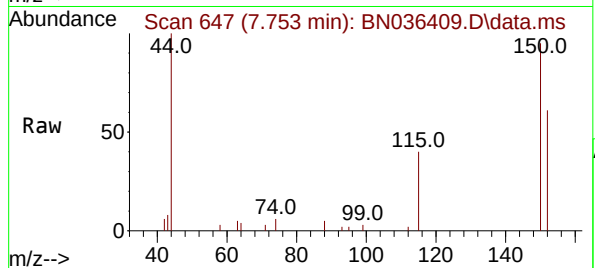




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

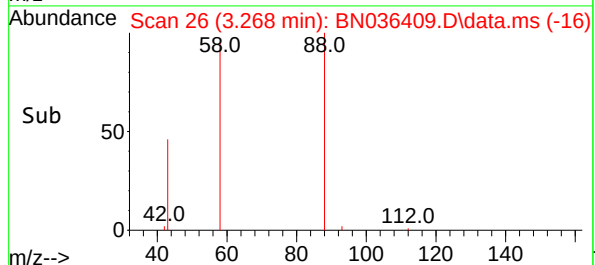
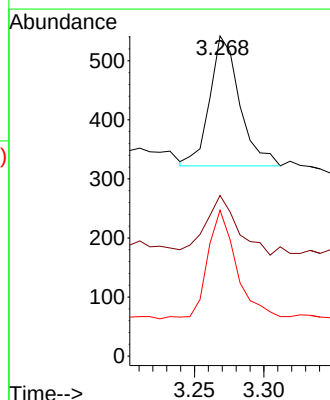
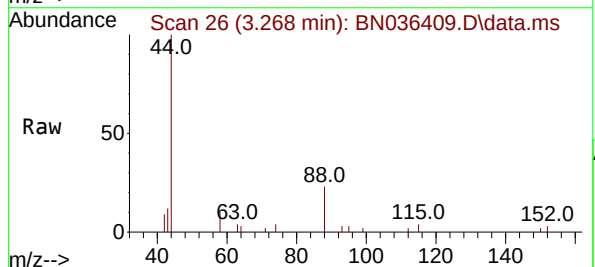
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

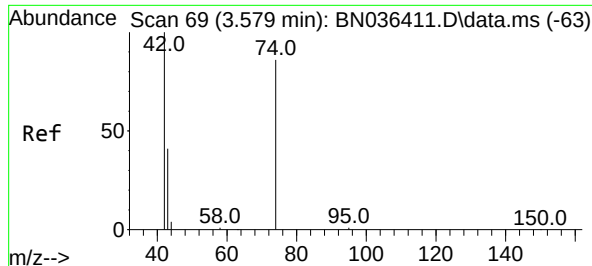
Tgt Ion:152 Resp: 2370
Ion Ratio Lower Upper
152 100
150 154.7 123.7 185.5
115 65.5 52.5 78.7



#2
1,4-Dioxane
Concen: 0.126 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 88 Resp: 329
Ion Ratio Lower Upper
88 100
43 48.9 33.7 50.5
58 81.8 68.9 103.3

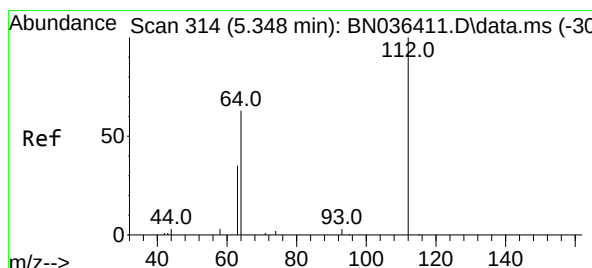
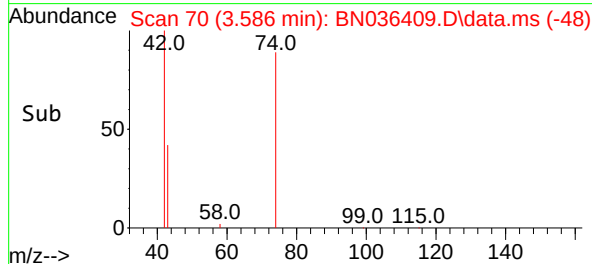
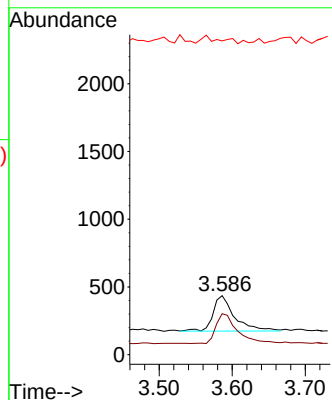
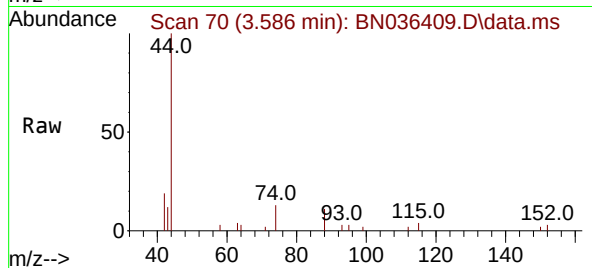




#3
n-Nitrosodimethylamine
Concen: 0.114 ng
RT: 3.586 min Scan# 70
Delta R.T. 0.007 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

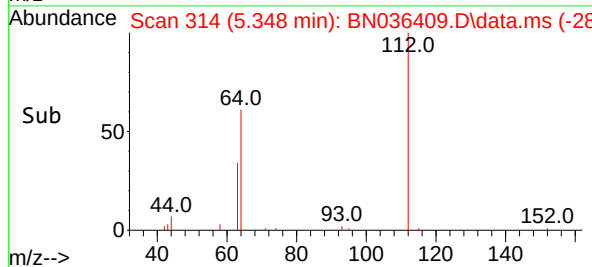
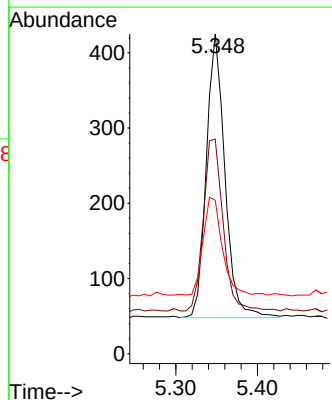
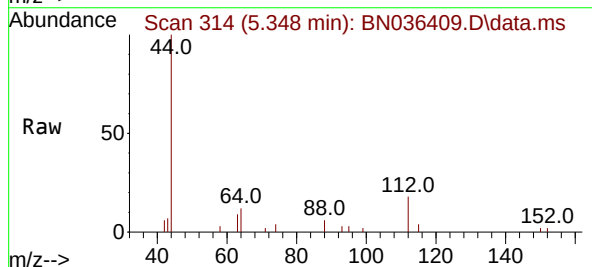
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

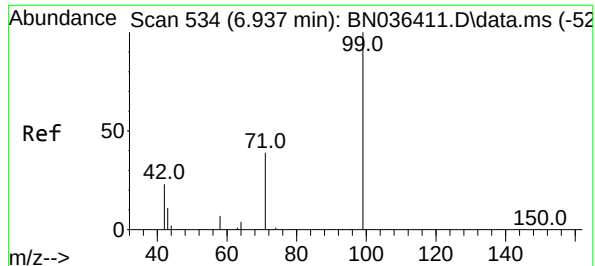
Tgt Ion: 42 Resp: 537
Ion Ratio Lower Upper
42 100
74 87.0 71.8 107.6
44 5.4 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.099 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion: 112 Resp: 598
Ion Ratio Lower Upper
112 100
64 64.2 53.4 80.0
63 36.0 30.3 45.5





#5

Phenol-d6

Concen: 0.095 ng

RT: 6.937 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

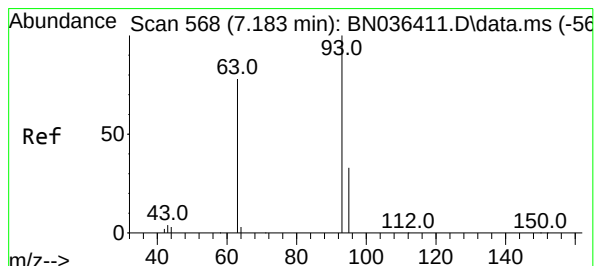
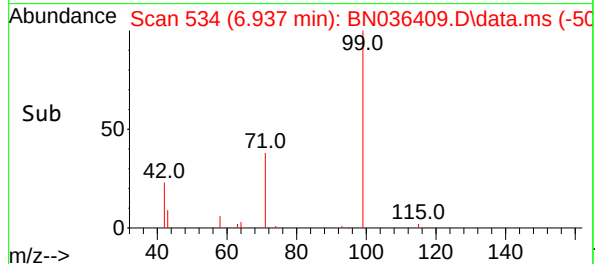
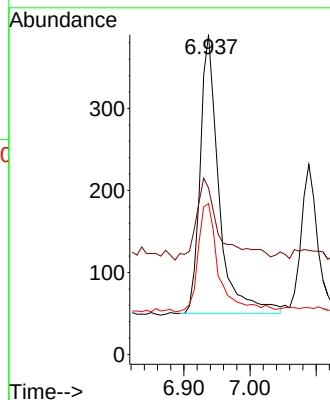
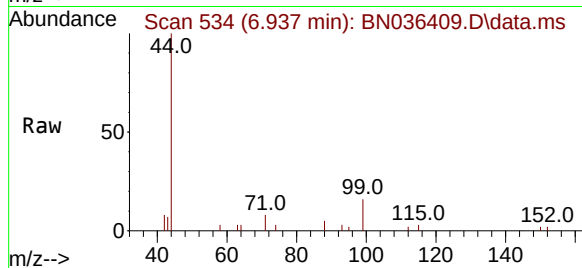
ClientSampleId :

SSTDICC0.1

Tgt Ion: 99 Resp: 672

Ion Ratio Lower Upper

99	100		
42	36.8	21.7	32.5#
71	42.9	32.6	49.0



#6

bis(2-Chloroethyl)ether

Concen: 0.140 ng

RT: 7.183 min Scan# 568

Delta R.T. 0.000 min

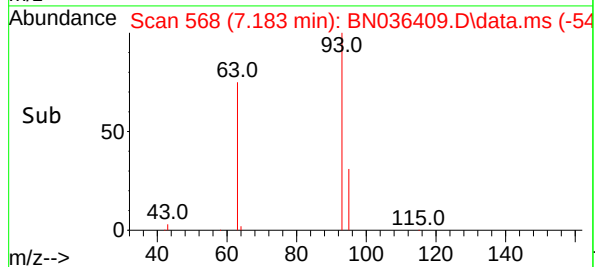
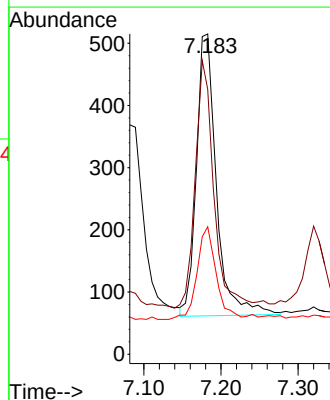
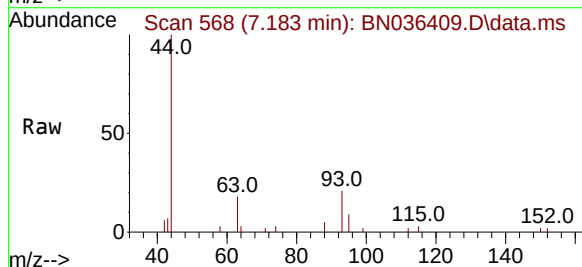
Lab File: BN036409.D

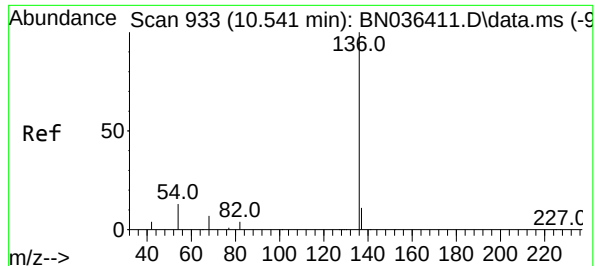
Acq: 10 Feb 2025 12:25

Tgt Ion: 93 Resp: 819

Ion Ratio Lower Upper

93	100		
63	82.8	66.3	99.5
95	31.5	26.2	39.4

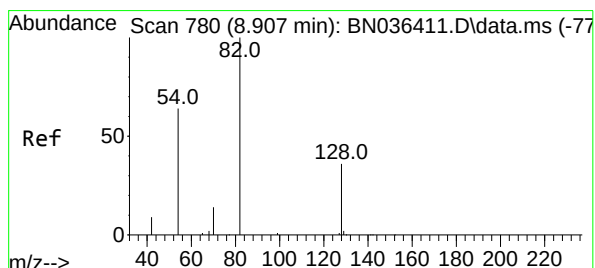
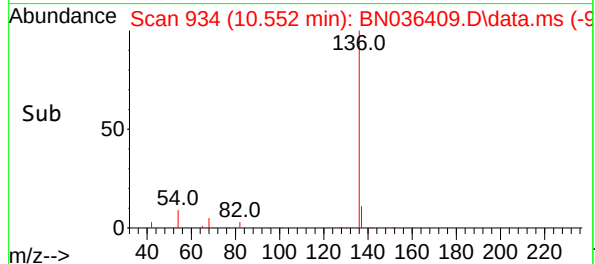
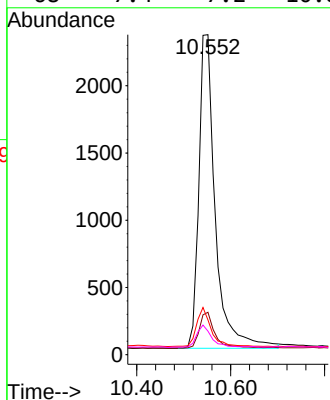
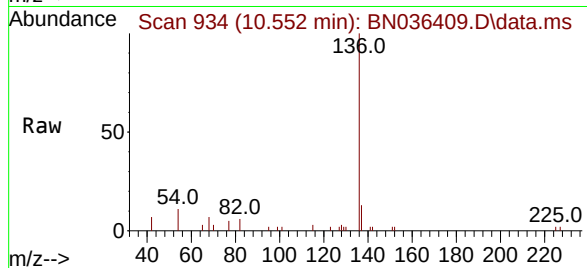




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

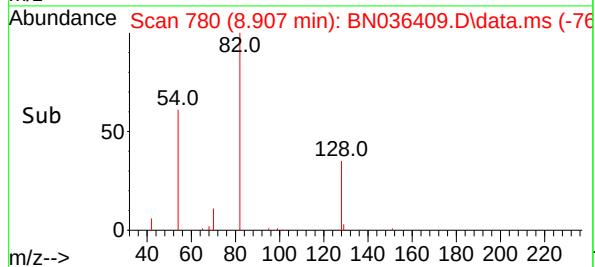
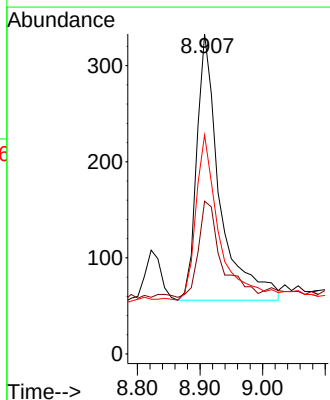
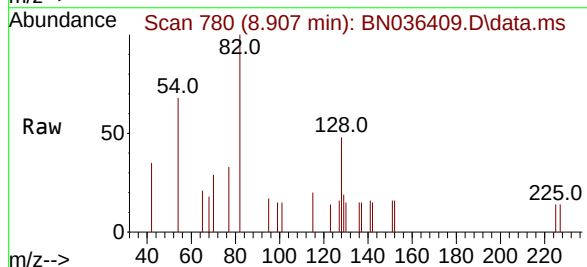
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

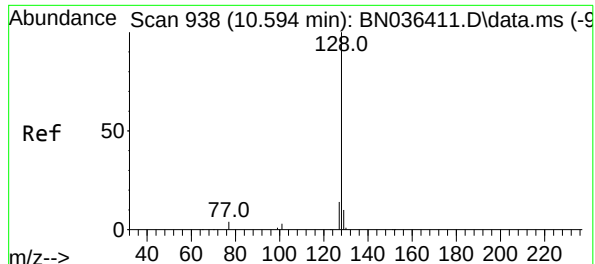
Tgt Ion:	136	Resp:	5687
Ion	Ratio	Lower	Upper
136	100		
137	13.3	10.1	15.1
54	10.9	11.8	17.6#
68	7.4	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.134 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:	82	Resp:	711
Ion	Ratio	Lower	Upper
82	100		
128	47.7	31.9	47.9
54	68.5	53.1	79.7



#9
Naphthalene

Concen: 0.123 ng

RT: 10.594 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

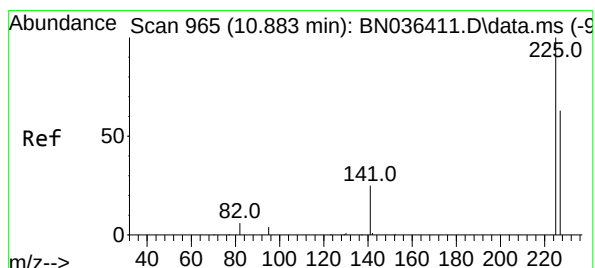
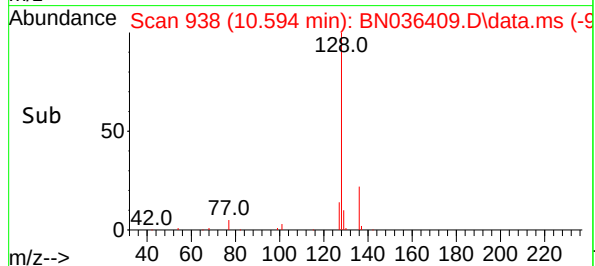
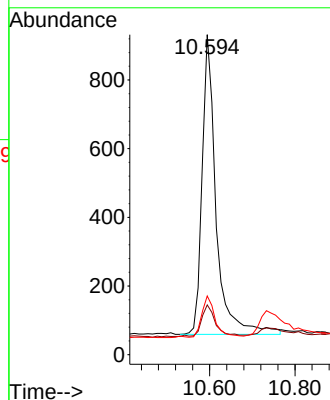
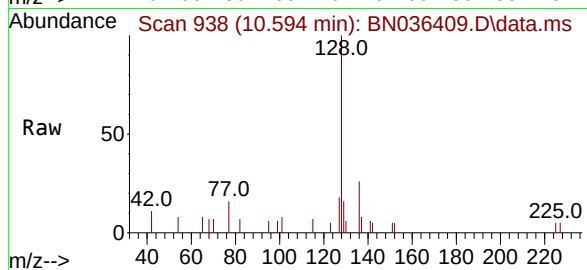
Tgt Ion:128 Resp: 1990

Ion Ratio Lower Upper

128 100

129 15.6 9.6 14.4#

127 18.3 12.0 18.0#



#10

Hexachlorobutadiene

Concen: 0.089 ng

RT: 10.883 min Scan# 965

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

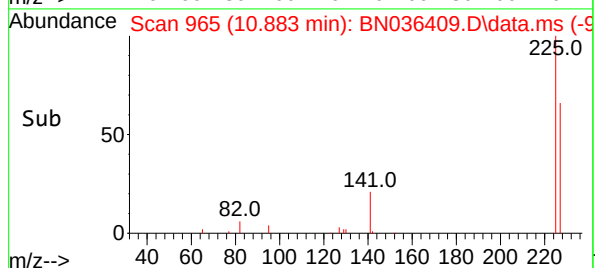
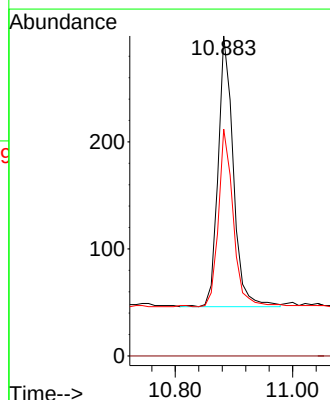
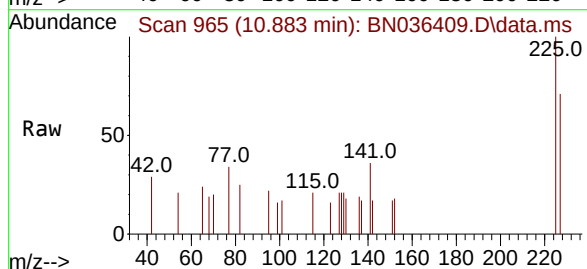
Tgt Ion:225 Resp: 454

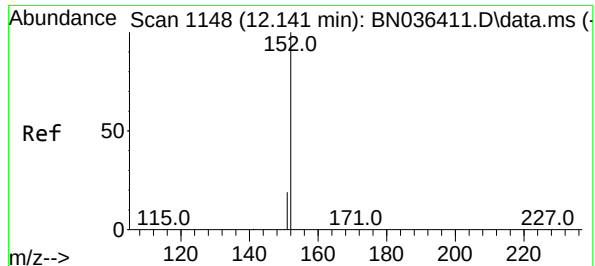
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 50.9 76.3

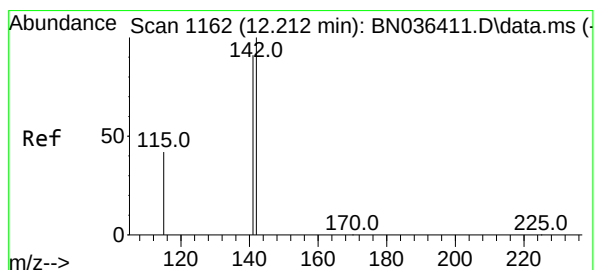
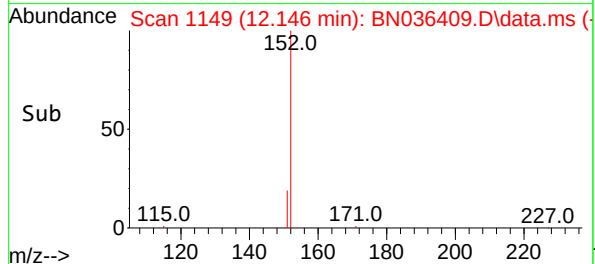
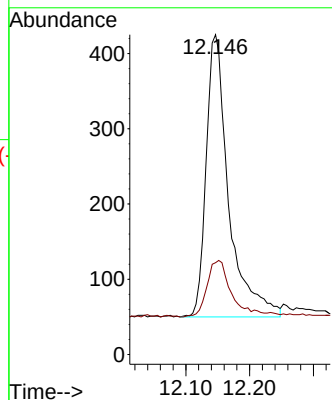
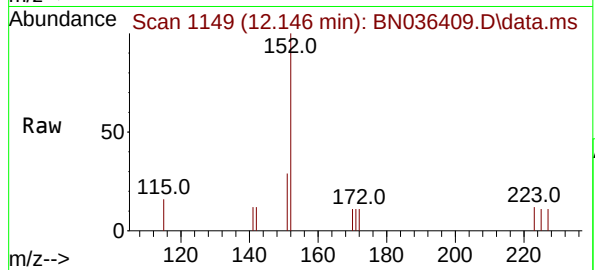




#11
2-Methylnaphthalene-d10
Concen: 0.118 ng
RT: 12.146 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

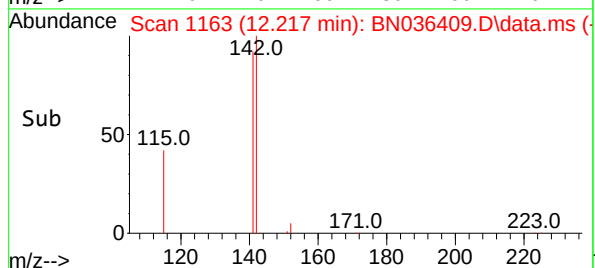
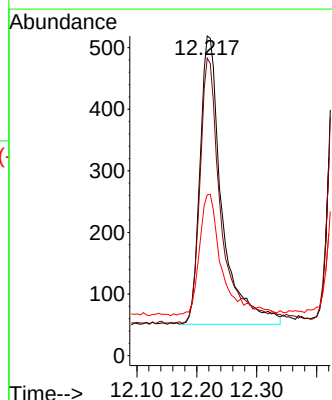
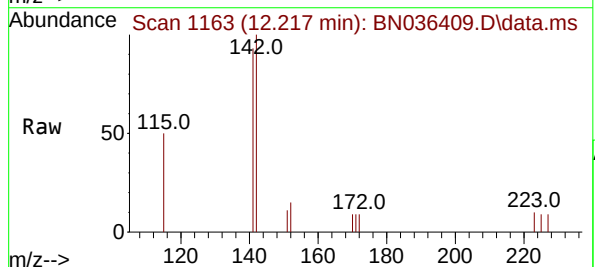
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

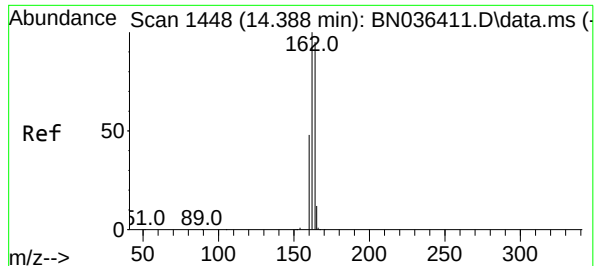
Tgt Ion:152 Resp: 920
Ion Ratio Lower Upper
152 100
151 21.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.116 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:142 Resp: 1185
Ion Ratio Lower Upper
142 100
141 93.1 72.8 109.2
115 50.3 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.398 min Scan# 1448

Delta R.T. 0.011 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

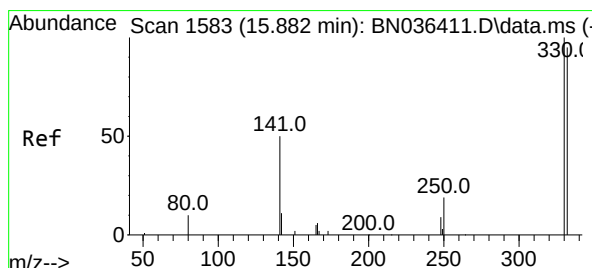
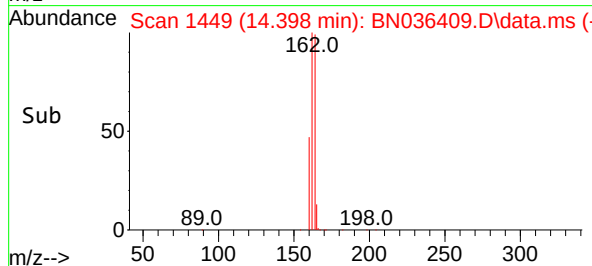
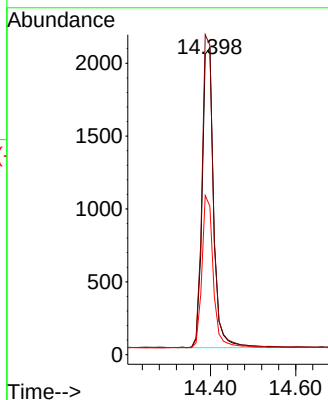
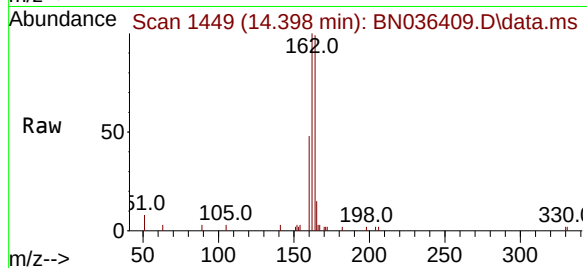
Tgt Ion:164 Resp: 3837

Ion Ratio Lower Upper

164 100

162 100.8 84.1 126.1

160 48.4 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 0.080 ng

RT: 15.895 min Scan# 1584

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

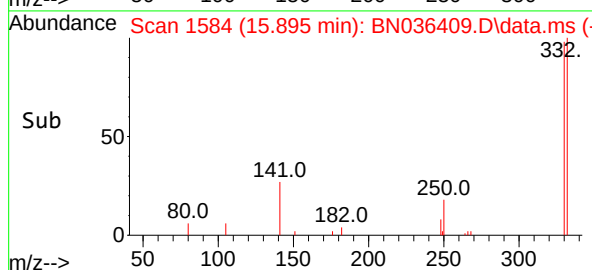
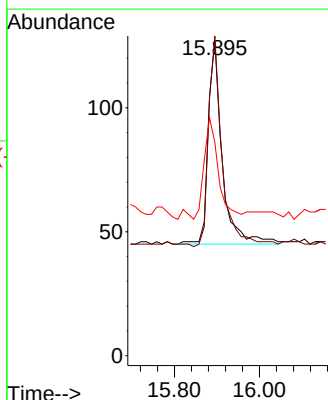
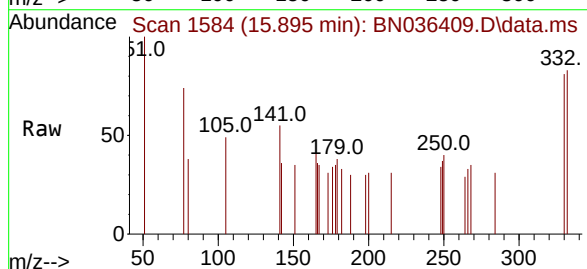
Tgt Ion:330 Resp: 188

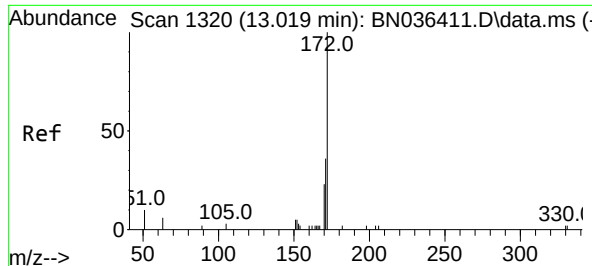
Ion Ratio Lower Upper

330 100

332 101.6 76.6 114.8

141 50.5 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.083 ng

RT: 13.019 min Scan# 1320

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

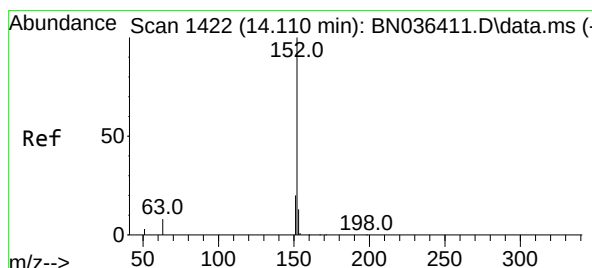
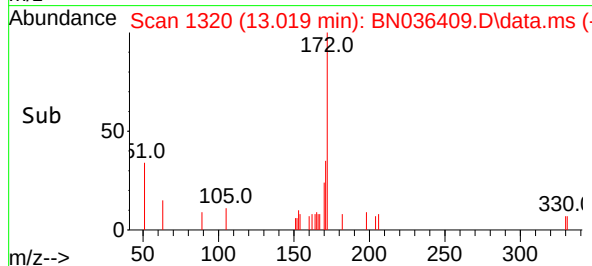
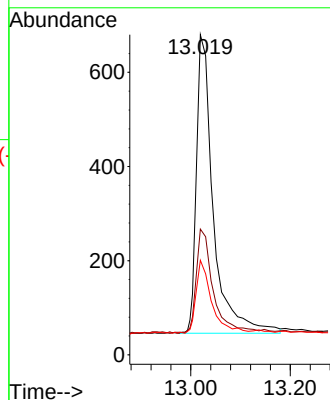
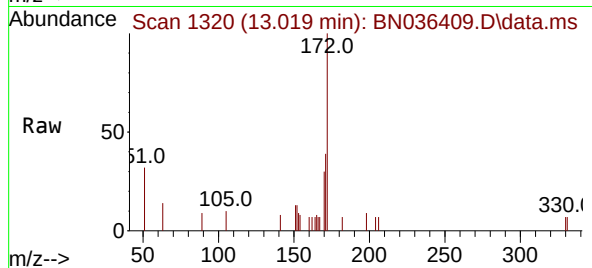
Tgt Ion:172 Resp: 1352

Ion Ratio Lower Upper

172 100

171 39.3 29.6 44.4

170 29.6 19.8 29.6



#16

Acenaphthylene

Concen: 0.098 ng

RT: 14.110 min Scan# 1422

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

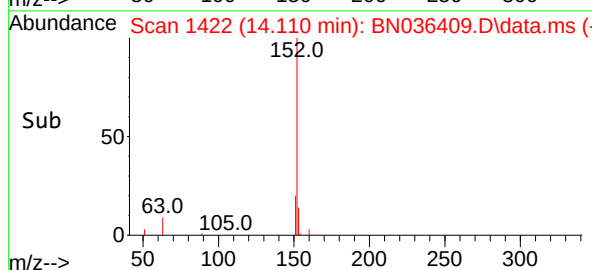
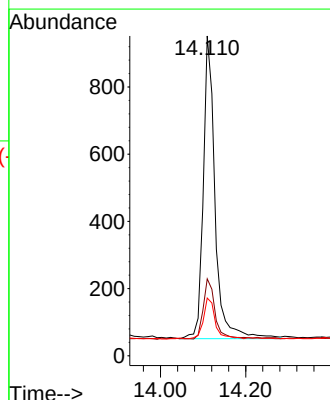
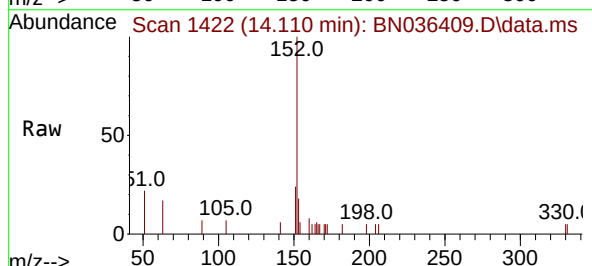
Tgt Ion:152 Resp: 1733

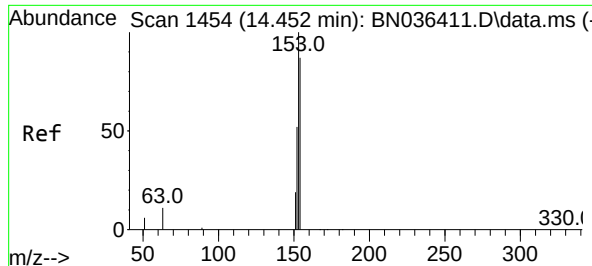
Ion Ratio Lower Upper

152 100

151 19.4 15.8 23.8

153 13.3 10.2 15.2

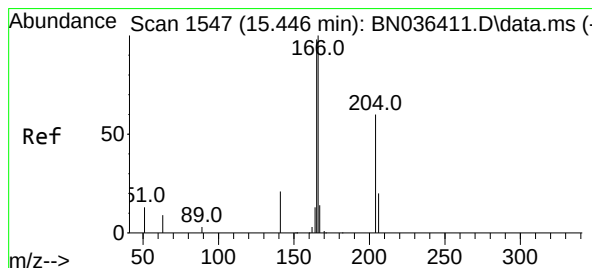
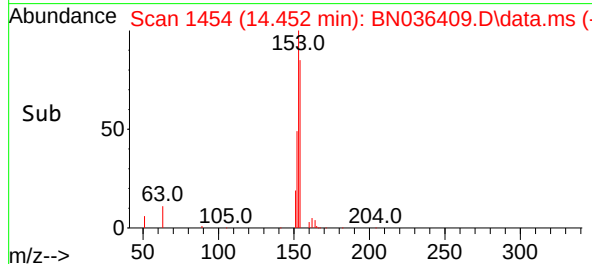
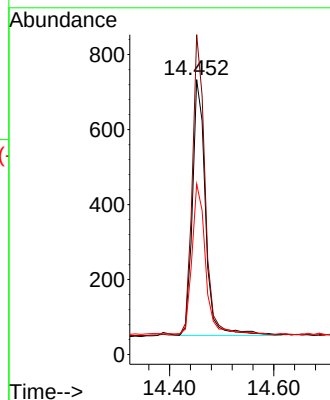
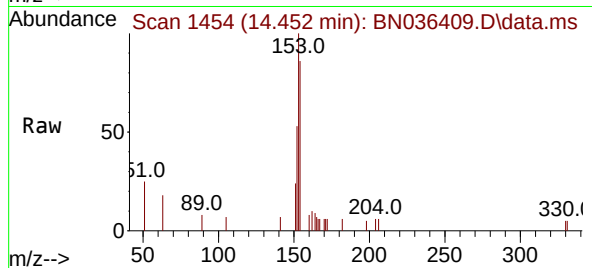




#17
Acenaphthene
Concen: 0.098 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

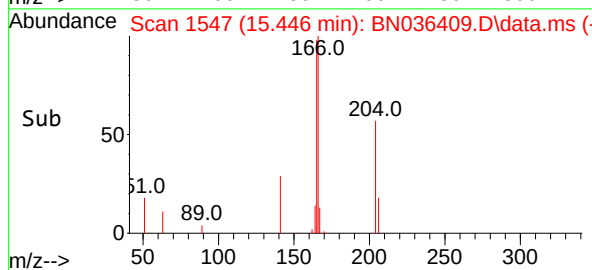
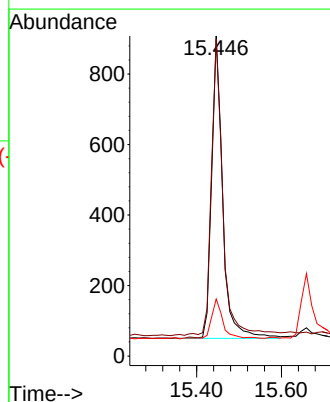
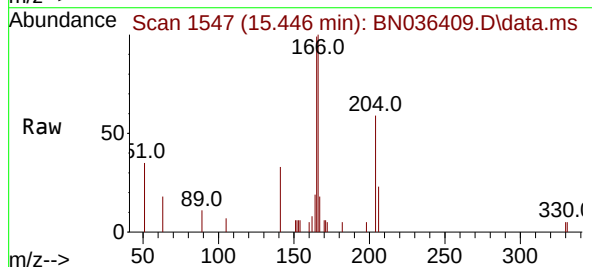
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

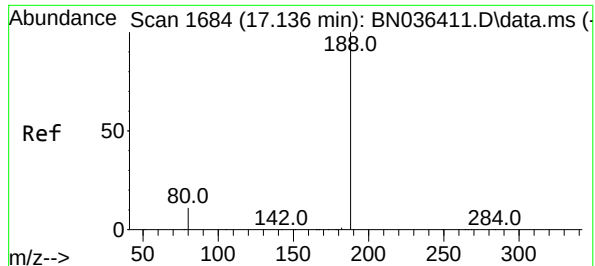
Tgt Ion	154	Resp	1194
Ion Ratio	Lower	Upper	
154	100		
153	114.2	93.3	139.9
152	61.5	48.8	73.2



#18
Fluorene
Concen: 0.104 ng
RT: 15.446 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion	166	Resp	1627
Ion Ratio	Lower	Upper	
166	100		
165	100.3	79.5	119.3
167	13.0	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

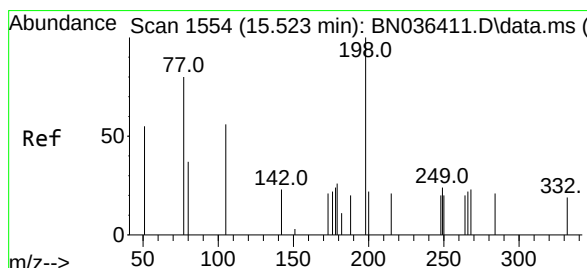
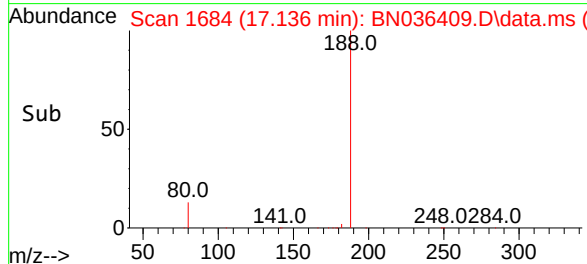
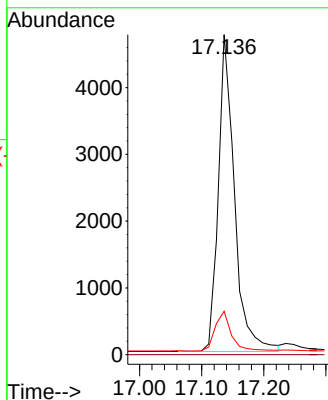
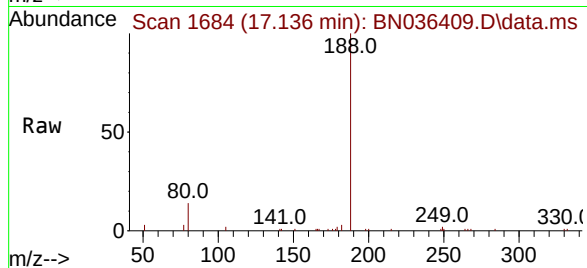
Tgt Ion:188 Resp: 8539

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.079 ng

RT: 15.535 min Scan# 1555

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

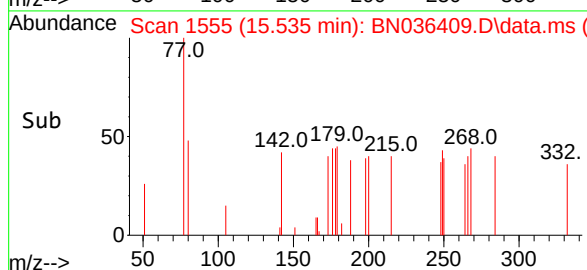
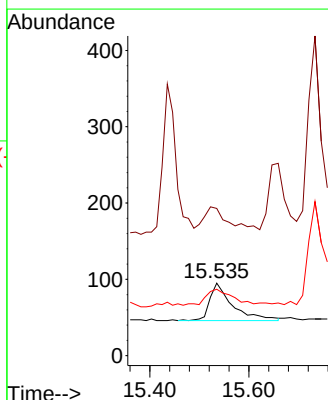
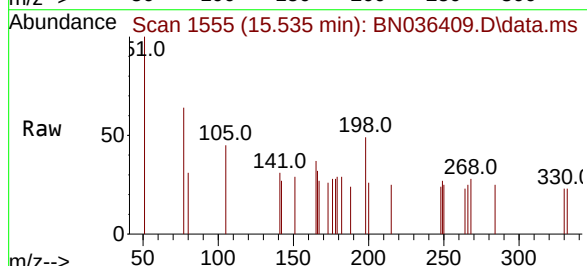
Tgt Ion:198 Resp: 151

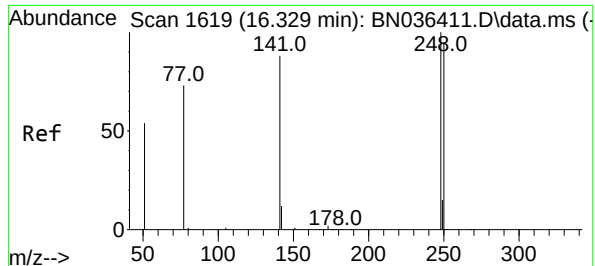
Ion Ratio Lower Upper

198 100

51 203.2 86.6 129.8#

105 91.6 57.5 86.3#

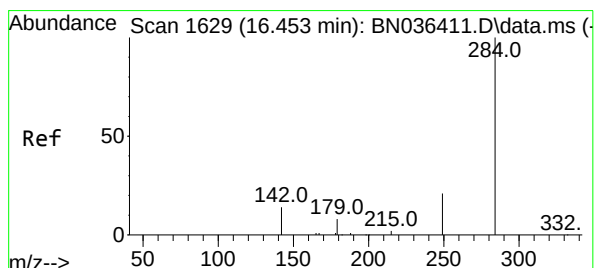
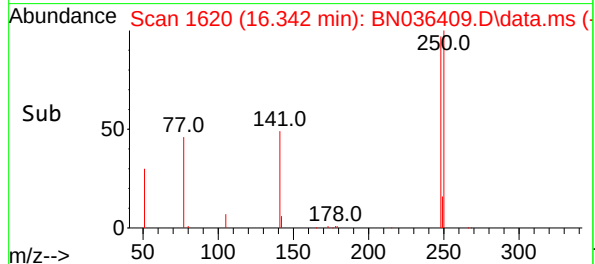
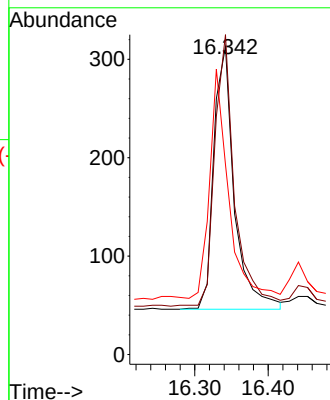
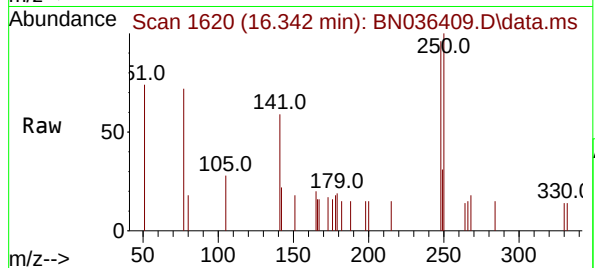




#21
4-Bromophenyl-phenylether
Concen: 0.089 ng
RT: 16.342 min Scan# 1620
Delta R.T. 0.012 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

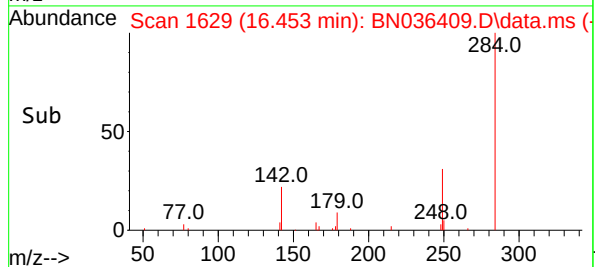
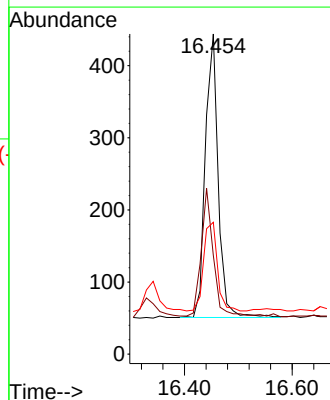
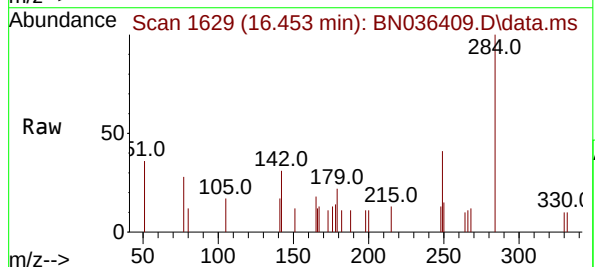
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

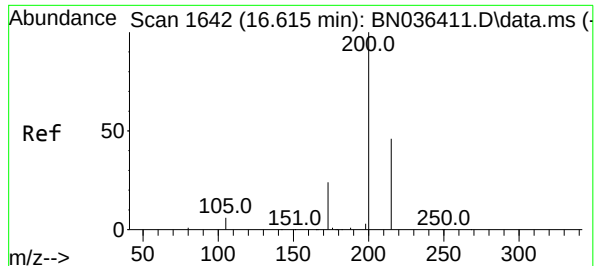
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.8	76.1	114.1
141	61.7	71.7	107.5#



#22
Hexachlorobenzene
Concen: 0.085 ng
RT: 16.453 min Scan# 1629
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion	Ratio	Lower	Upper
284	100		
142	41.5	33.4	50.0
249	35.0	28.6	43.0

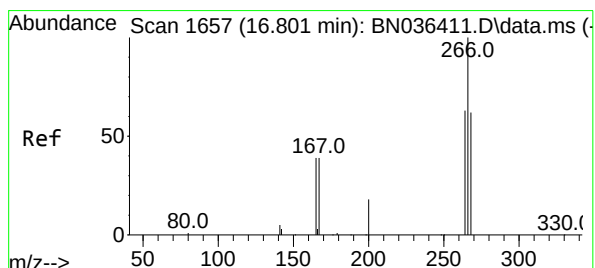
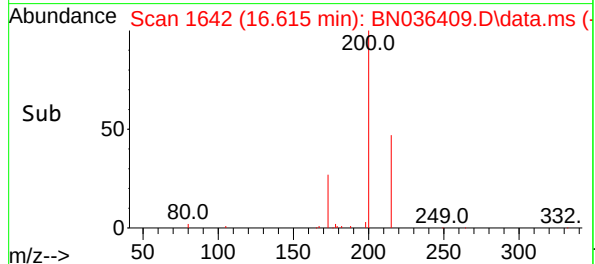
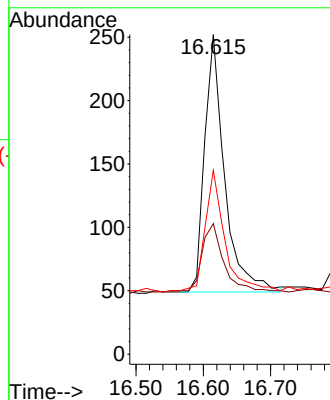
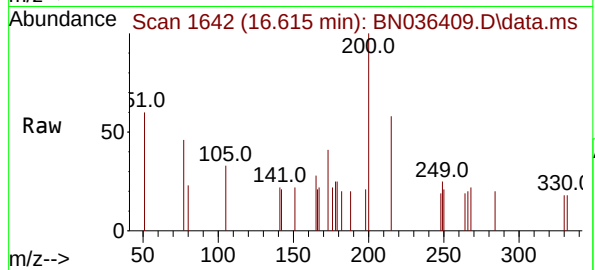




#23
Atrazine
Concen: 0.097 ng
RT: 16.615 min Scan# 1642
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

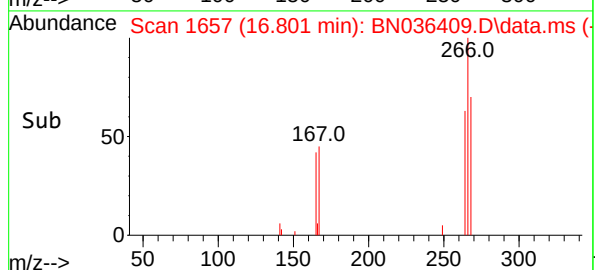
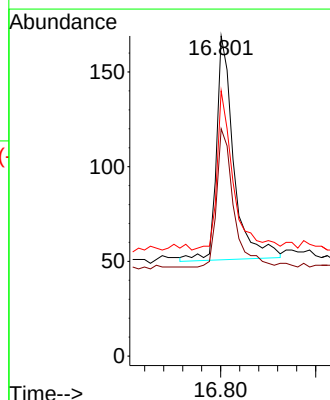
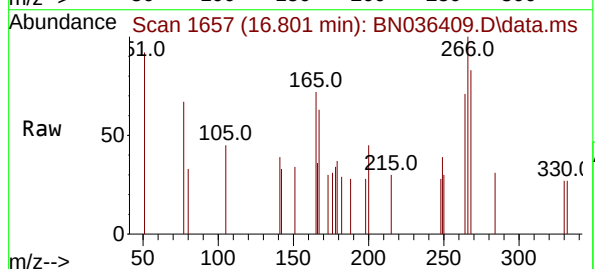
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

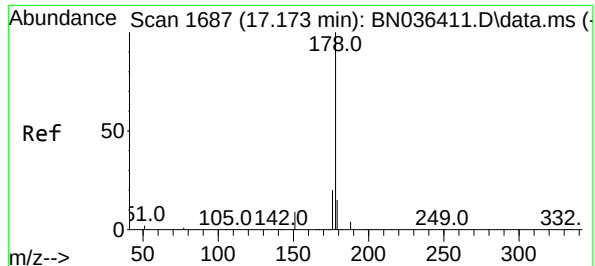
Tgt Ion:200 Resp: 419
Ion Ratio Lower Upper
200 100
173 40.9 23.2 34.8#
215 57.5 40.0 60.0



#24
Pentachlorophenol
Concen: 0.089 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:266 Resp: 298
Ion Ratio Lower Upper
266 100
264 60.1 50.6 76.0
268 63.1 51.9 77.9

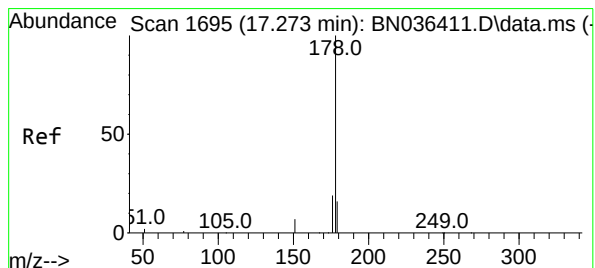
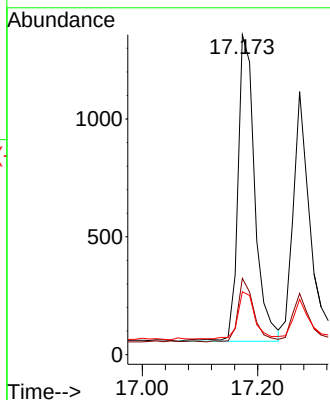
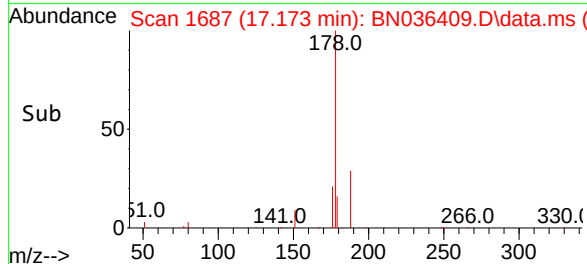
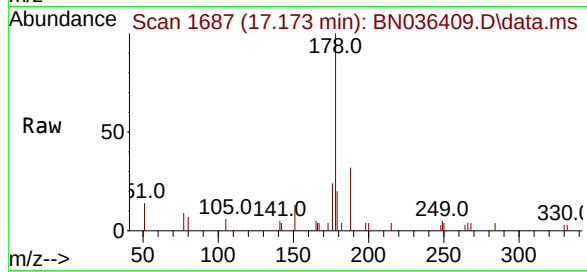




#25
Phenanthrene
Concen: 0.105 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

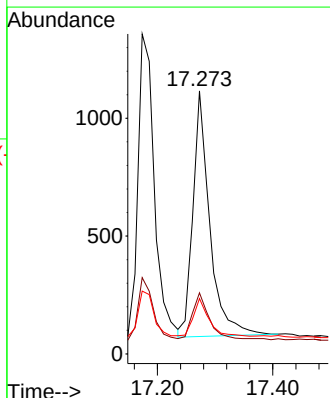
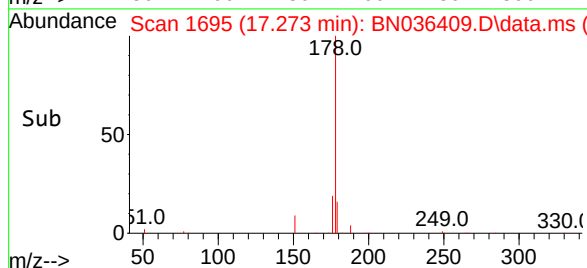
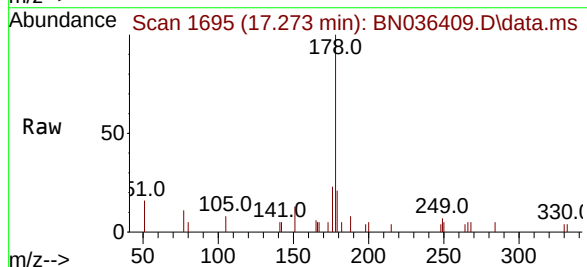
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

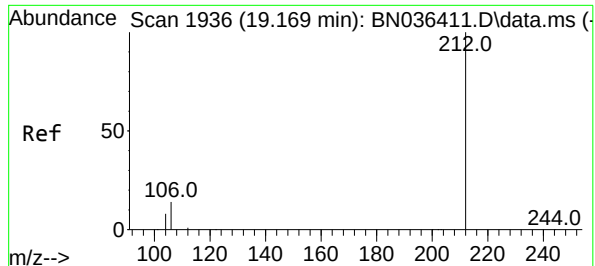
Tgt Ion:178 Resp: 2633
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.5 12.4 18.6



#26
Anthracene
Concen: 0.093 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:178 Resp: 2113
Ion Ratio Lower Upper
178 100
176 20.8 14.9 22.3
179 14.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.108 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

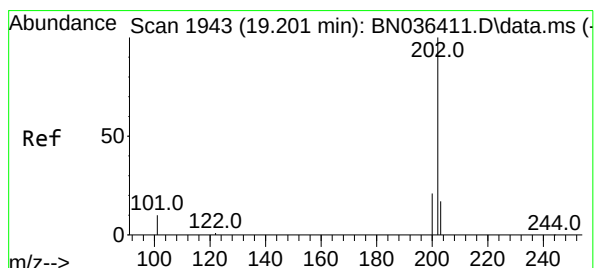
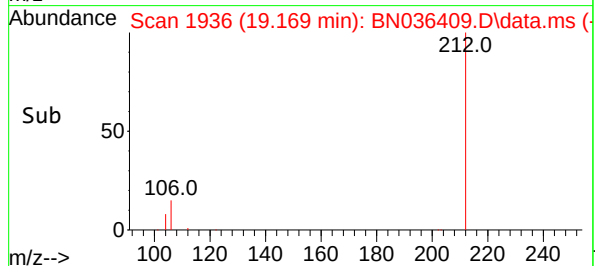
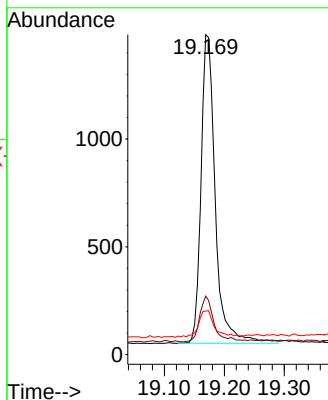
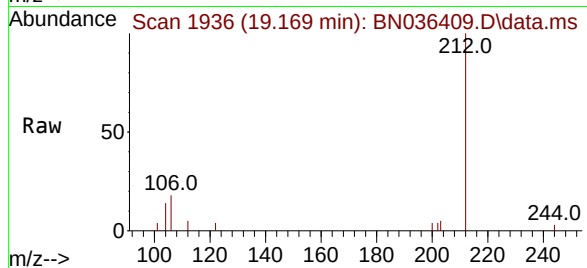
Tgt Ion:212 Resp: 2368

Ion Ratio Lower Upper

212 100

106 14.8 11.5 17.3

104 9.8 7.1 10.7



#28

Fluoranthene

Concen: 0.104 ng

RT: 19.201 min Scan# 1943

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

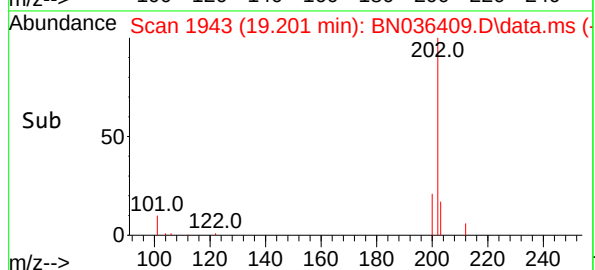
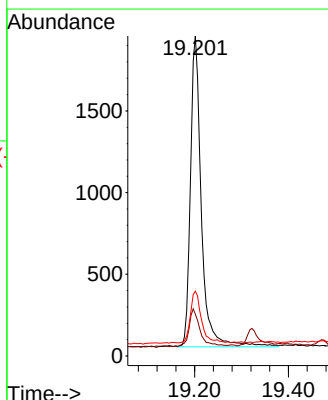
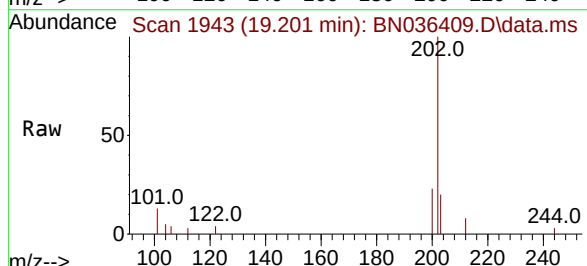
Tgt Ion:202 Resp: 3077

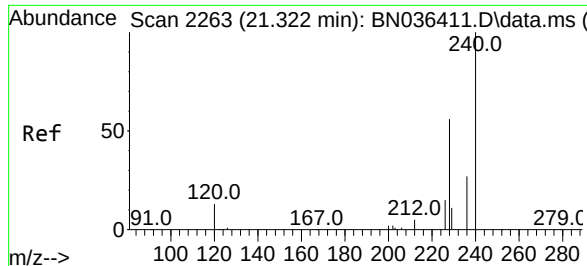
Ion Ratio Lower Upper

202 100

101 12.2 9.2 13.8

203 16.6 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

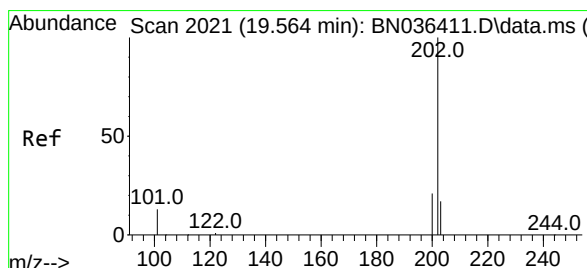
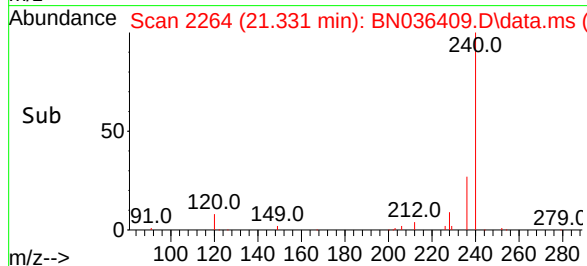
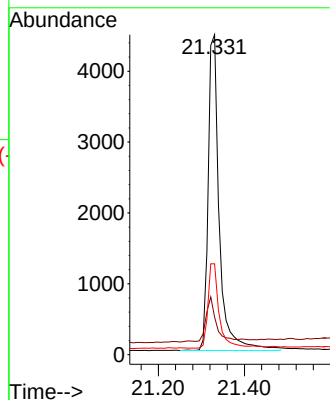
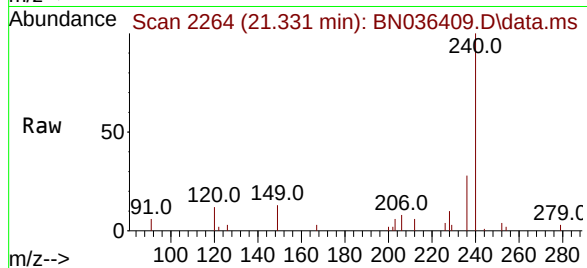
Tgt Ion:240 Resp: 8027

Ion Ratio Lower Upper

240 100

120 11.7 13.3 19.9#

236 28.4 23.0 34.6



#30

Pyrene

Concen: 0.099 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

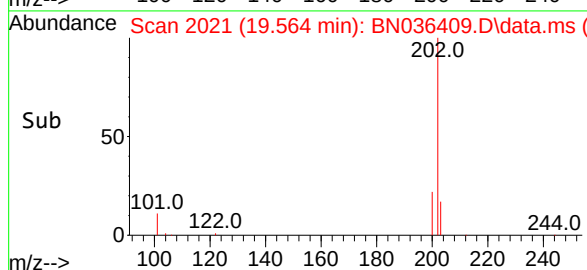
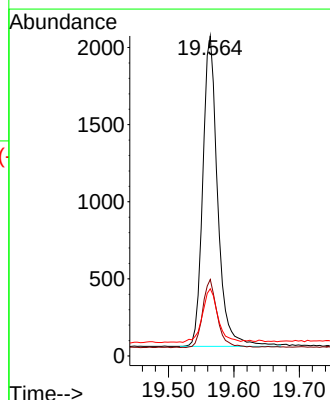
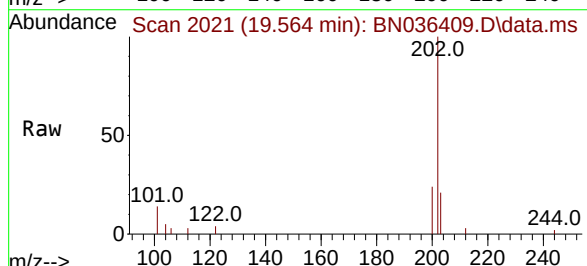
Tgt Ion:202 Resp: 3179

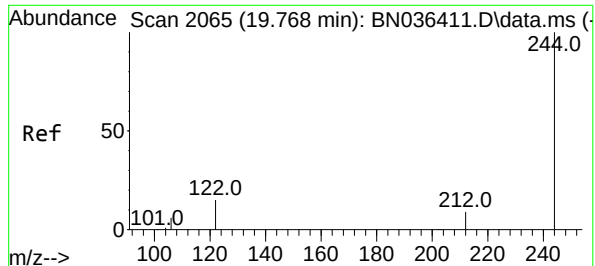
Ion Ratio Lower Upper

202 100

200 21.4 16.9 25.3

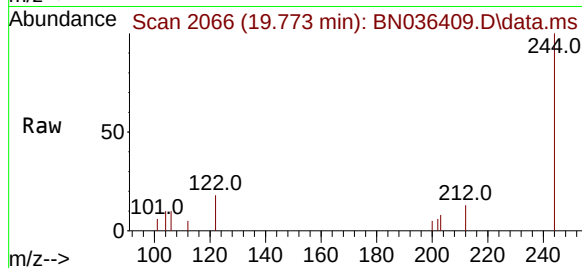
203 17.8 13.9 20.9



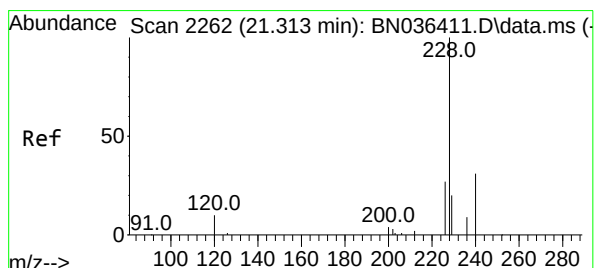
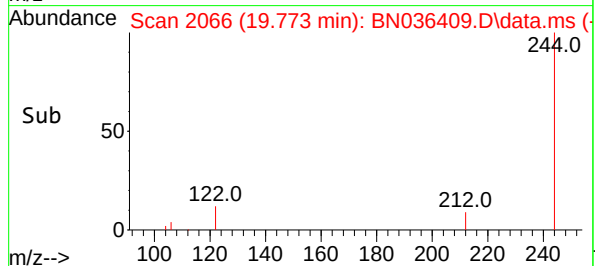
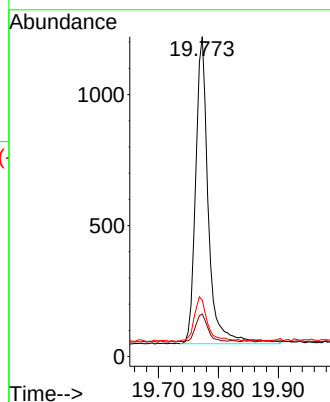


#31
Terphenyl-d14
Concen: 0.104 ng
RT: 19.773 min Scan# 2066
Delta R.T. 0.005 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

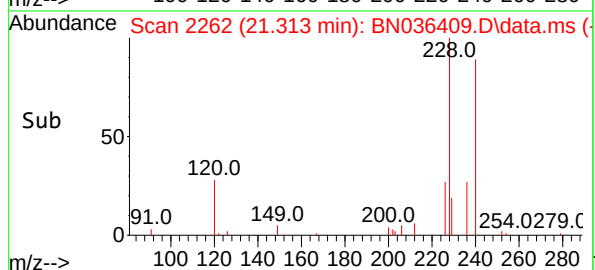
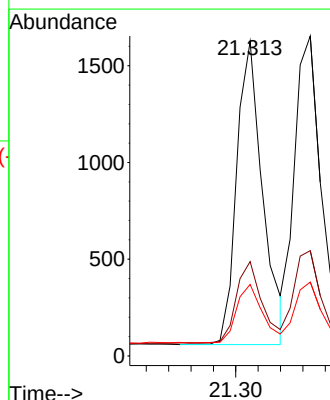
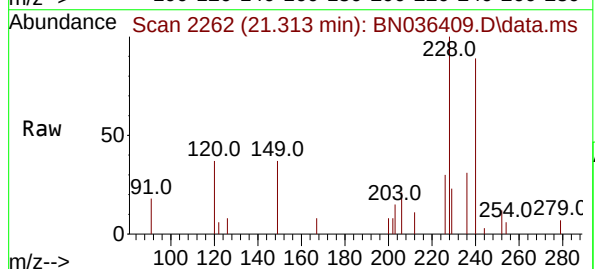


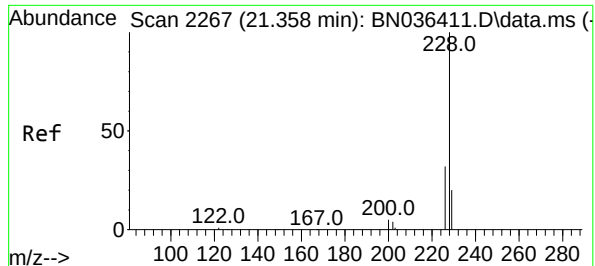
Tgt Ion:244 Resp: 1725
Ion Ratio Lower Upper
244 100
212 13.3 8.1 12.1#
122 17.7 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.088 ng
RT: 21.313 min Scan# 2262
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:228 Resp: 2523
Ion Ratio Lower Upper
228 100
226 30.0 22.2 33.2
229 22.7 16.5 24.7

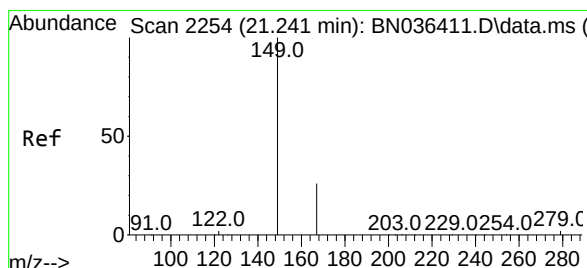
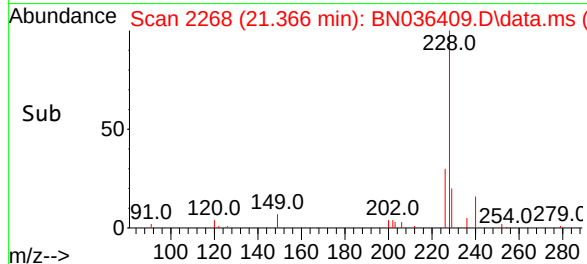
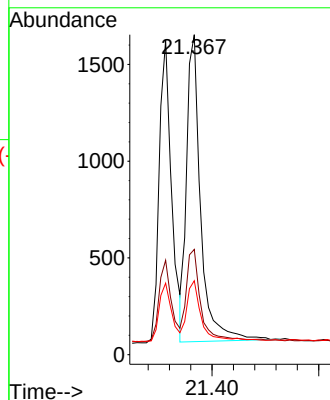
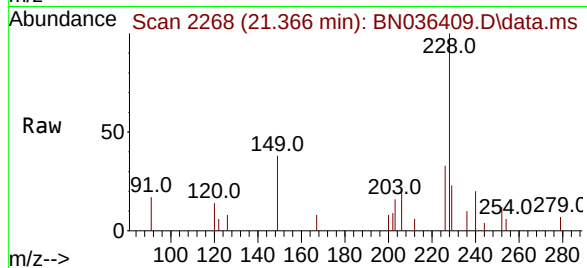




#33
Chrysene
Concen: 0.099 ng
RT: 21.366 min Scan# 2136
Delta R.T. 0.009 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

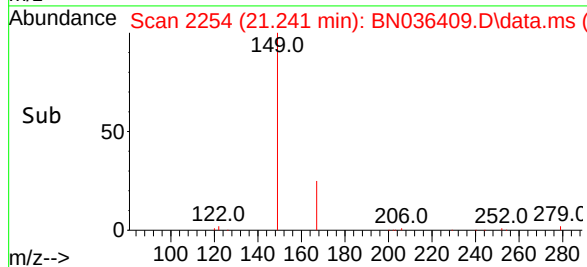
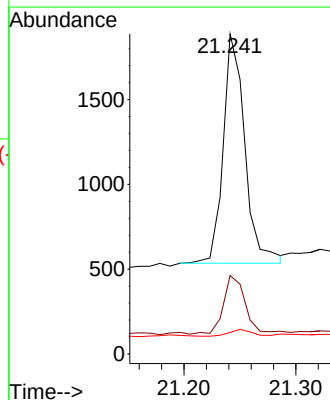
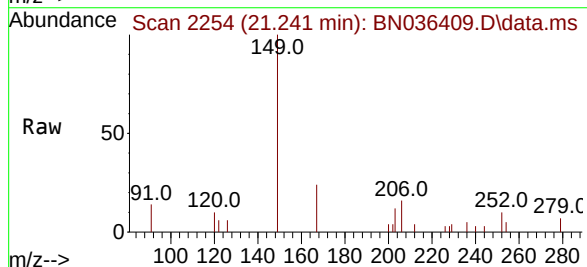
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

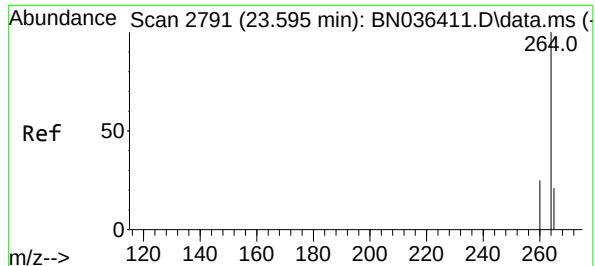
Tgt Ion:	228	Resp:	2908
Ion Ratio	Lower	Upper	
228	100		
226	32.9	25.5	38.3
229	23.1	16.4	24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.241 min Scan# 2254
Delta R.T. 0.000 min
Lab File: BN036409.D
Acq: 10 Feb 2025 12:25

Tgt Ion:	149	Resp:	1810
Ion Ratio	Lower	Upper	
149	100		
167	26.2	21.2	31.8
279	3.1	2.7	4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.598 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036409.D

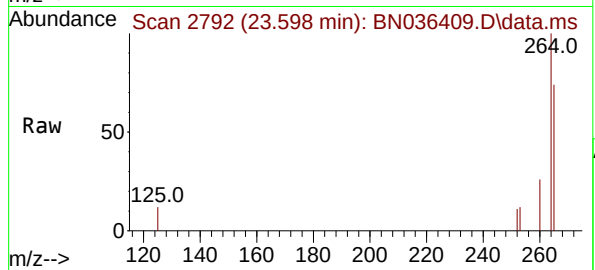
Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



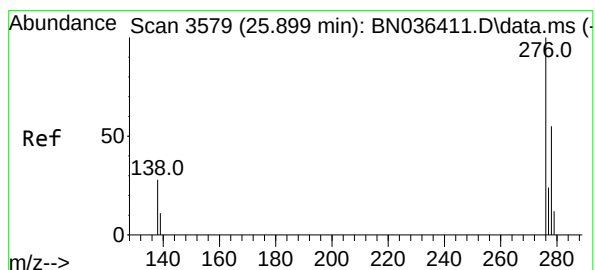
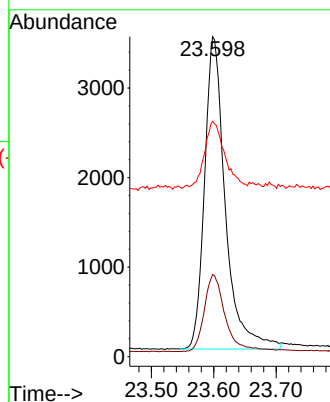
Tgt Ion:264 Resp: 8068

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 73.6 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.075 ng

RT: 25.911 min Scan# 3583

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

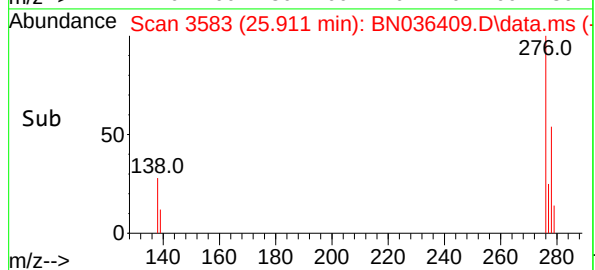
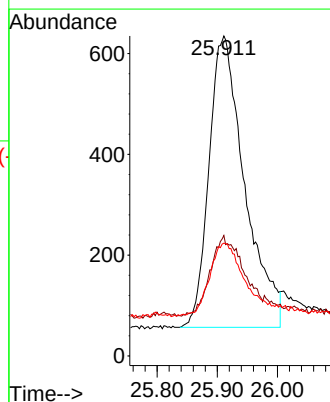
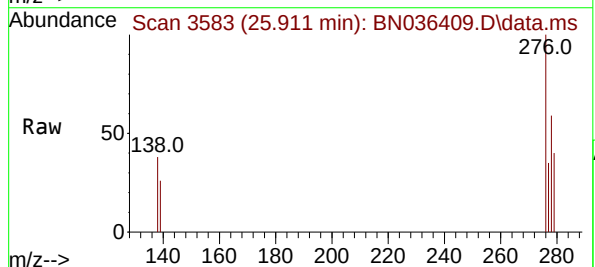
Tgt Ion:276 Resp: 2385

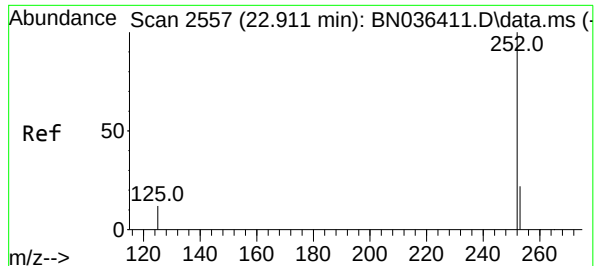
Ion Ratio Lower Upper

276 100

138 25.9 22.2 33.2

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.083 ng

RT: 22.917 min Scan# 2557

Delta R.T. 0.006 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

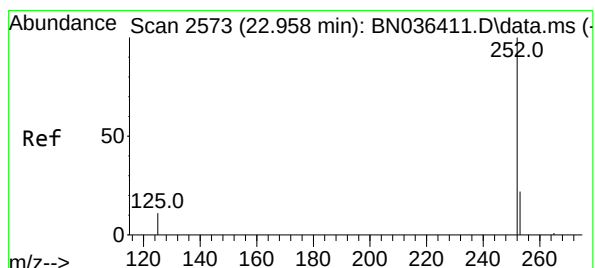
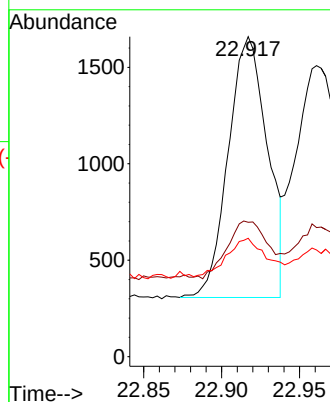
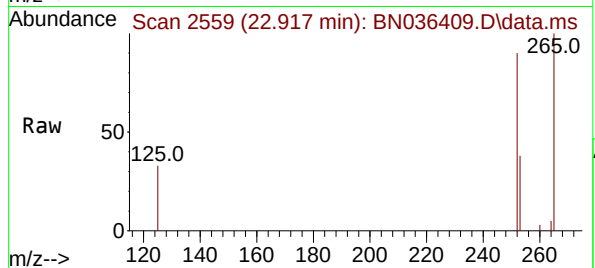
Tgt Ion:252 Resp: 2367

Ion Ratio Lower Upper

252 100

253 42.0 21.9 32.9#

125 37.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.087 ng

RT: 22.961 min Scan# 2574

Delta R.T. 0.003 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

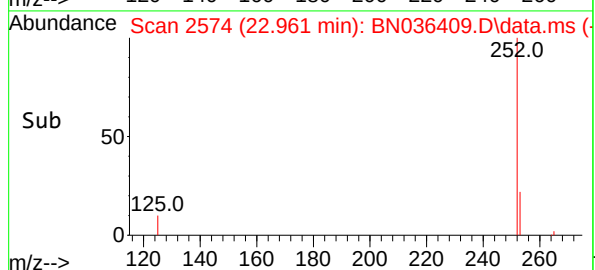
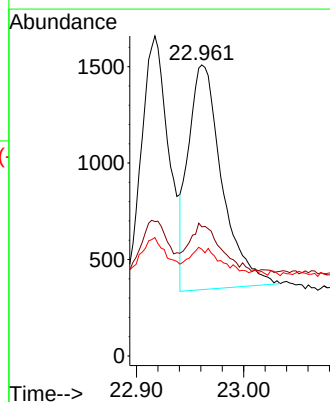
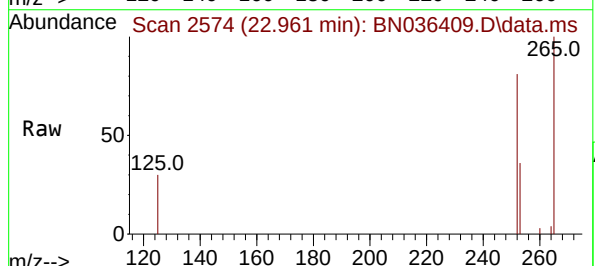
Tgt Ion:252 Resp: 2537

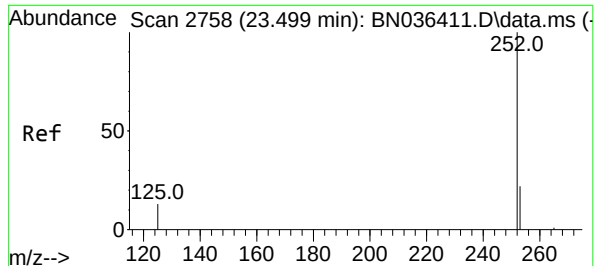
Ion Ratio Lower Upper

252 100

253 44.3 22.2 33.4#

125 36.6 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.089 ng

RT: 23.499 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

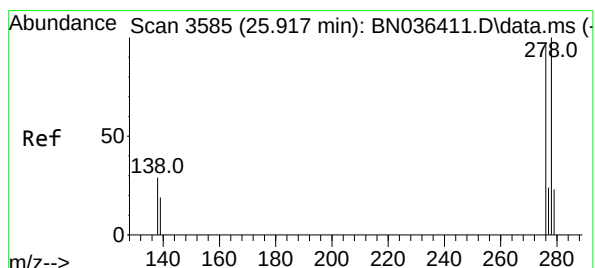
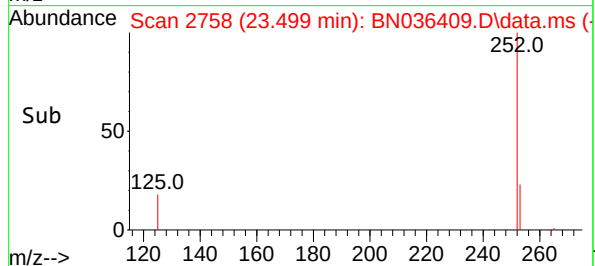
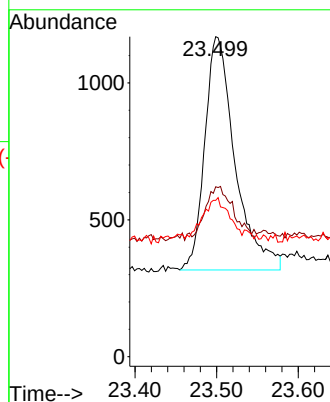
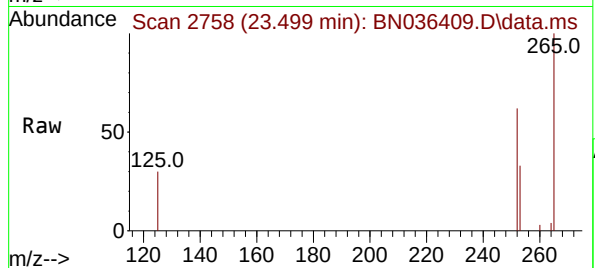
Tgt Ion:252 Resp: 2200

Ion Ratio Lower Upper

252 100

253 53.1 24.4 36.6#

125 48.8 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.073 ng

RT: 25.928 min Scan# 3589

Delta R.T. 0.012 min

Lab File: BN036409.D

Acq: 10 Feb 2025 12:25

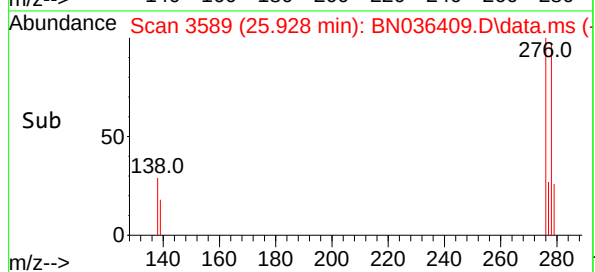
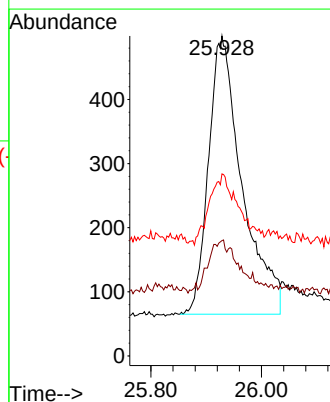
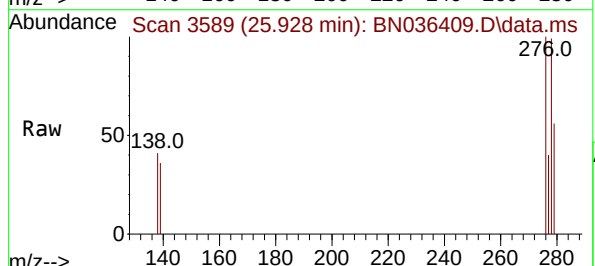
Tgt Ion:278 Resp: 1827

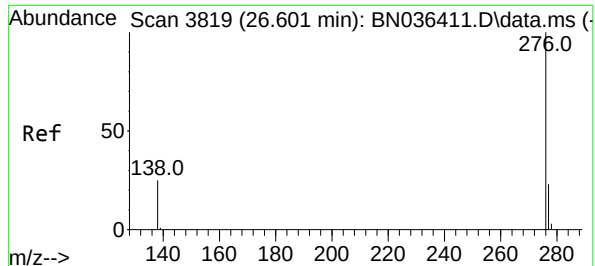
Ion Ratio Lower Upper

278 100

139 36.1 18.5 27.7#

279 56.9 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 0.083 ng

RT: 26.607 min Scan# 3819

Delta R.T. 0.006 min

Lab File: BN036409.D

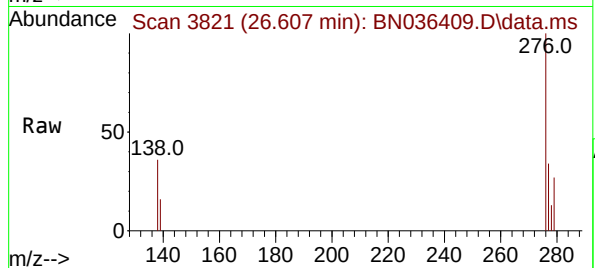
Acq: 10 Feb 2025 12:25

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



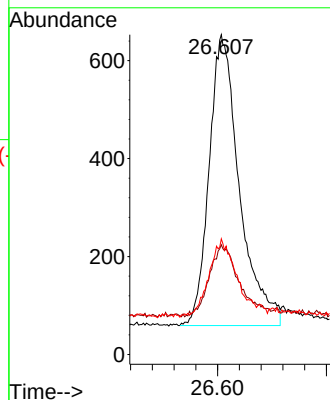
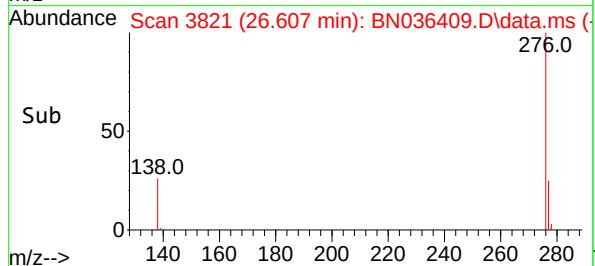
Tgt Ion:276 Resp: 2299

Ion Ratio Lower Upper

276 100

277 34.3 20.7 31.1#

138 36.1 21.8 32.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036410.D
 Acq On : 10 Feb 2025 13:01
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Feb 11 00:35:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

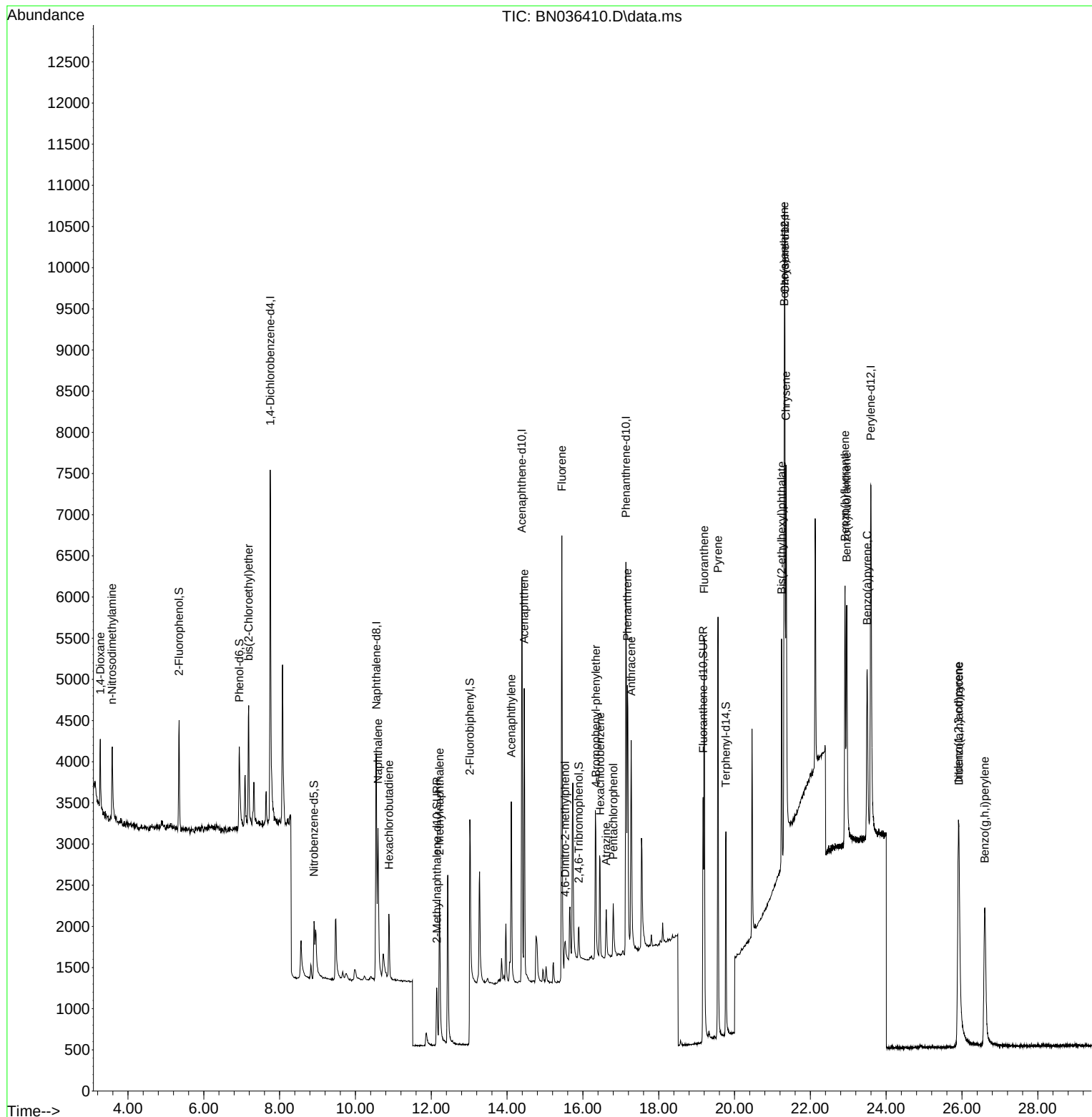
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2157	0.400	ng	0.00
7) Naphthalene-d8	10.551	136	4791	0.400	ng	# 0.01
13) Acenaphthene-d10	14.387	164	3185	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	7435	0.400	ng	0.00
29) Chrysene-d12	21.331	240	6531	0.400	ng	# 0.00
35) Perylene-d12	23.595	264	6918	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	1029	0.187	ng	0.00
5) Phenol-d6	6.937	99	1086	0.170	ng	0.00
8) Nitrobenzene-d5	8.907	82	869	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	12.146	152	1397	0.213	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	289	0.147	ng	0.01
15) 2-Fluorobiphenyl	13.019	172	2214	0.163	ng	0.00
27) Fluoranthene-d10	19.173	212	3879	0.203	ng	0.00
31) Terphenyl-d14	19.773	244	2765	0.204	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	471	0.198	ng	97
3) n-Nitrosodimethylamine	3.579	42	840	0.196	ng	# 98
6) bis(2-Chloroethyl)ether	7.183	93	1154	0.217	ng	98
9) Naphthalene	10.594	128	2733	0.200	ng	# 95
10) Hexachlorobutadiene	10.882	225	702	0.164	ng	# 99
12) 2-Methylnaphthalene	12.217	142	1706	0.198	ng	97
16) Acenaphthylene	14.110	152	2654	0.180	ng	98
17) Acenaphthene	14.452	154	1791	0.177	ng	98
18) Fluorene	15.446	166	2596	0.200	ng	100
20) 4,6-Dinitro-2-methylph...	15.535	198	248	0.149	ng	# 85
21) 4-Bromophenyl-phenylether	16.342	248	844	0.166	ng	# 80
22) Hexachlorobenzene	16.453	284	1101	0.166	ng	97
23) Atrazine	16.615	200	705	0.188	ng	95
24) Pentachlorophenol	16.801	266	463	0.159	ng	95
25) Phenanthrene	17.173	178	4051	0.186	ng	100
26) Anthracene	17.273	178	3467	0.175	ng	98
28) Fluoranthene	19.201	202	4918	0.190	ng	100
30) Pyrene	19.564	202	5119	0.196	ng	100
32) Benzo(a)anthracene	21.313	228	4166	0.180	ng	98
33) Chrysene	21.357	228	4754	0.200	ng	99
34) Bis(2-ethylhexyl)phtha...	21.241	149	2858	0.221	ng	100
36) Indeno(1,2,3-cd)pyrene	25.905	276	4459	0.164	ng	99
37) Benzo(b)fluoranthene	22.914	252	4220	0.172	ng	# 85
38) Benzo(k)fluoranthene	22.958	252	4335	0.173	ng	# 85
39) Benzo(a)pyrene	23.499	252	3740	0.177	ng	# 80
40) Dibenzo(a,h)anthracene	25.919	278	3533	0.164	ng	# 86
41) Benzo(g,h,i)perylene	26.601	276	4192	0.177	ng	93

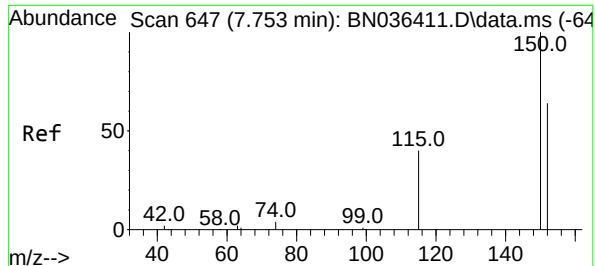
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036410.D
Acq On : 10 Feb 2025 13:01
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Feb 11 00:35:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

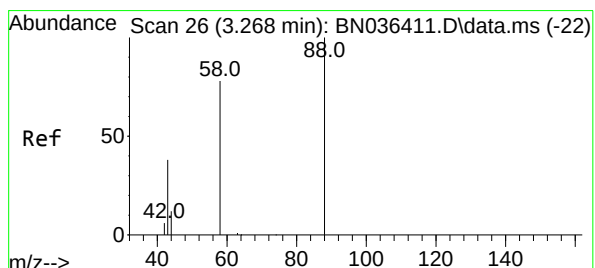
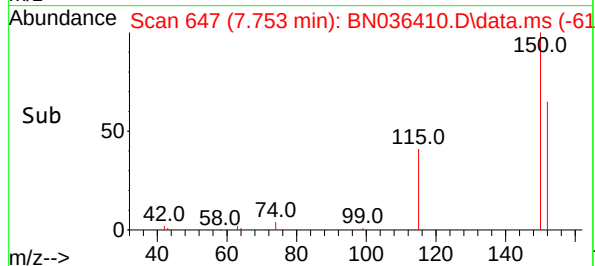
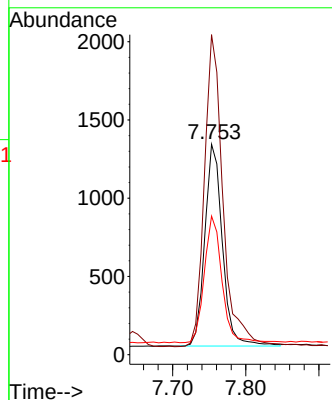
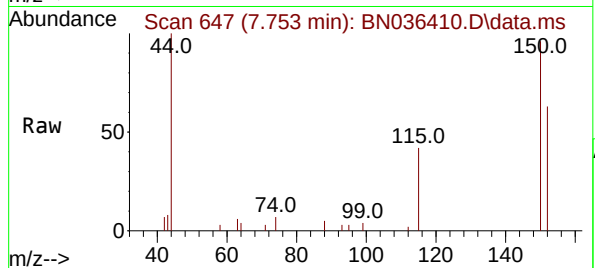




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

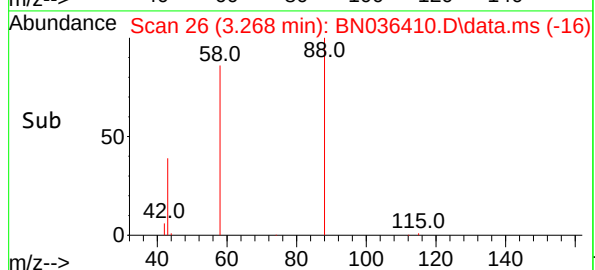
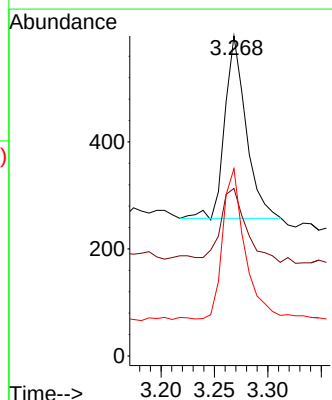
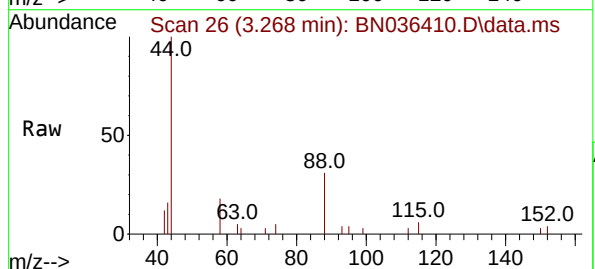
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

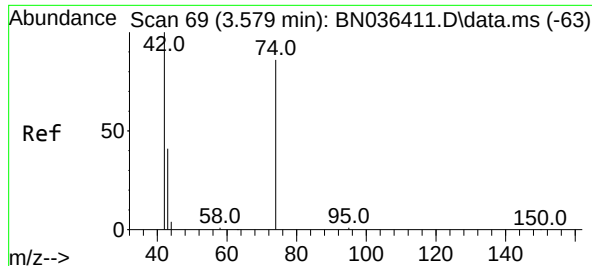
Tgt Ion:152 Resp: 2157
Ion Ratio Lower Upper
152 100
150 152.0 123.7 185.5
115 65.9 52.5 78.7



#2
1,4-Dioxane
Concen: 0.198 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 88 Resp: 471
Ion Ratio Lower Upper
88 100
43 48.2 33.7 50.5
58 85.8 68.9 103.3

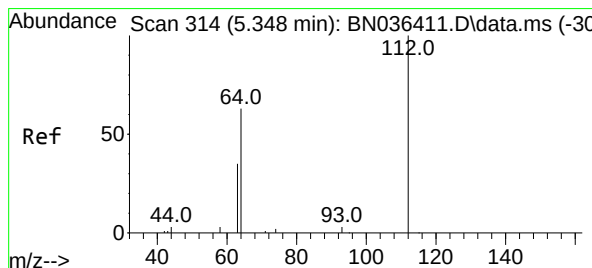
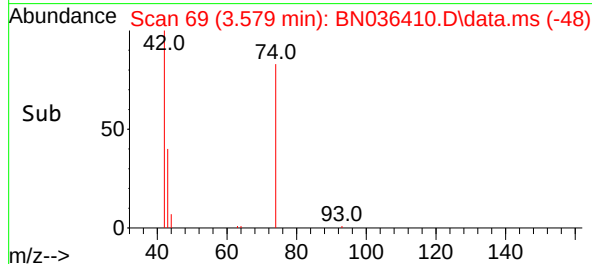
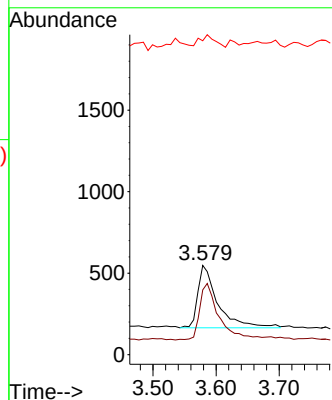
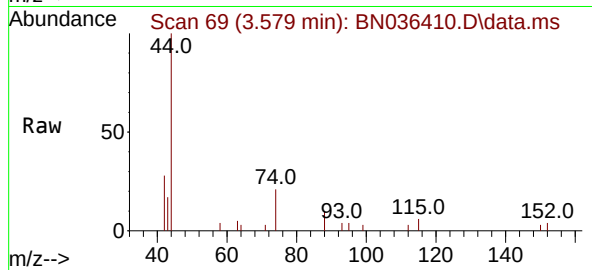




#3
n-Nitrosodimethylamine
Concen: 0.196 ng
RT: 3.579 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

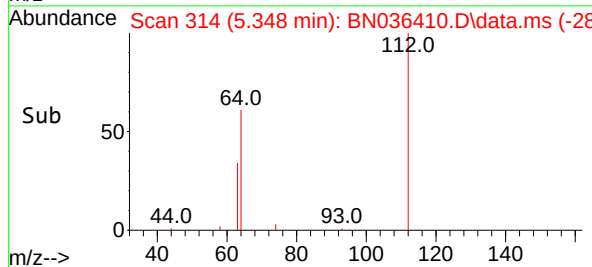
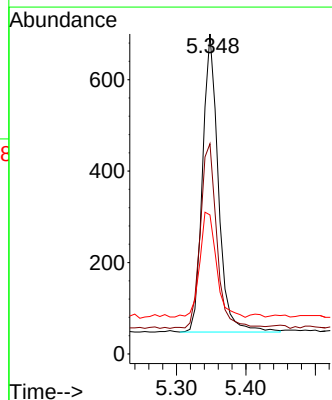
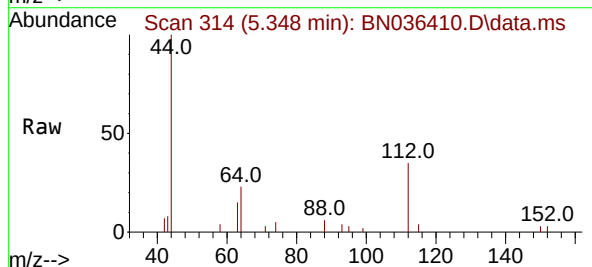
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

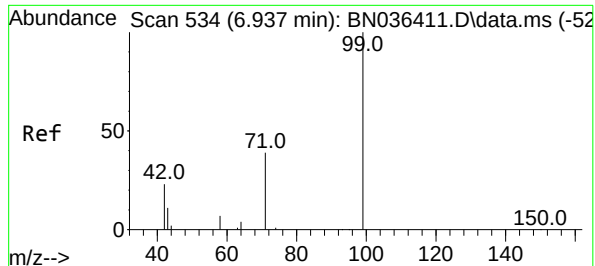
Tgt Ion: 42 Resp: 840
Ion Ratio Lower Upper
42 100
74 90.6 71.8 107.6
44 14.5 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.187 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion: 112 Resp: 1029
Ion Ratio Lower Upper
112 100
64 64.8 53.4 80.0
63 37.2 30.3 45.5

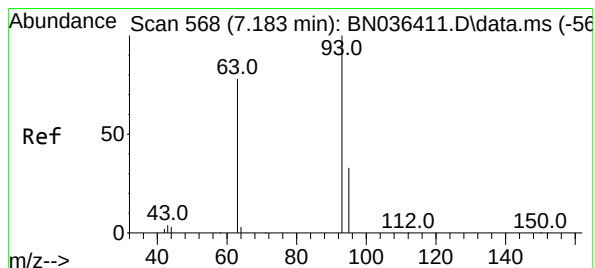
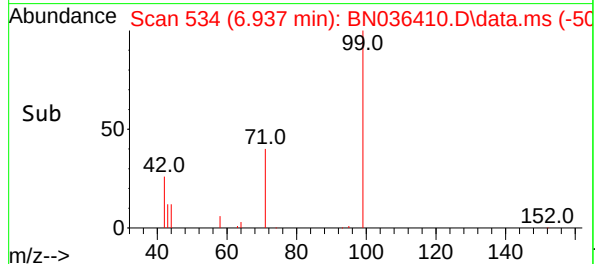
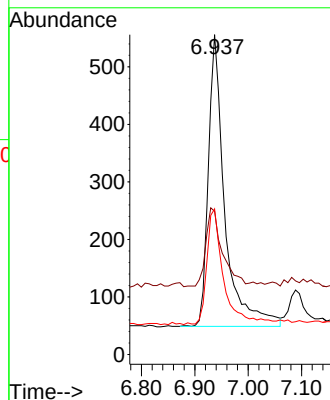
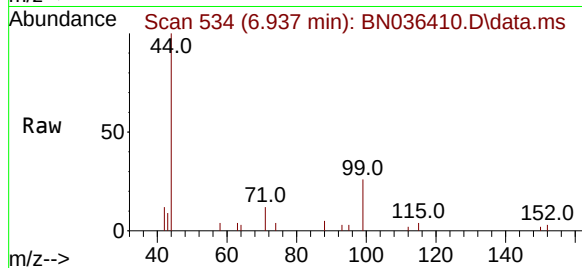




#5
Phenol-d6
Concen: 0.170 ng
RT: 6.937 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

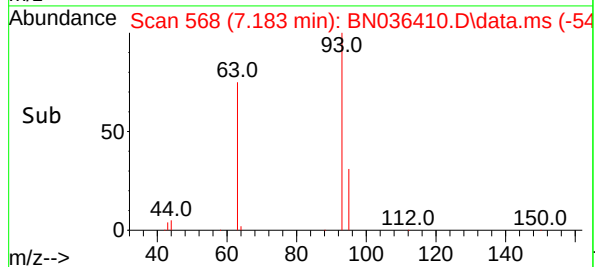
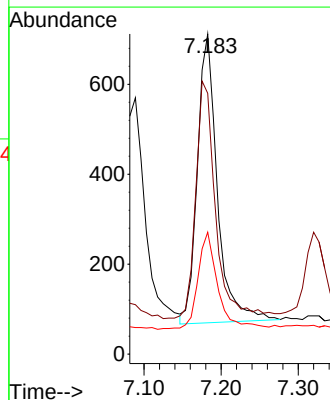
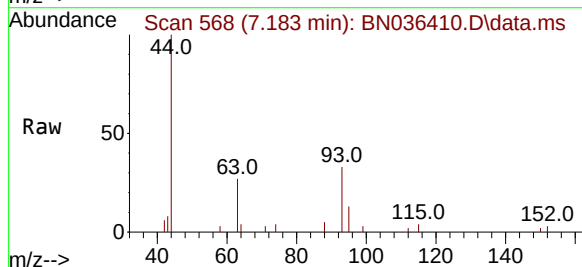
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

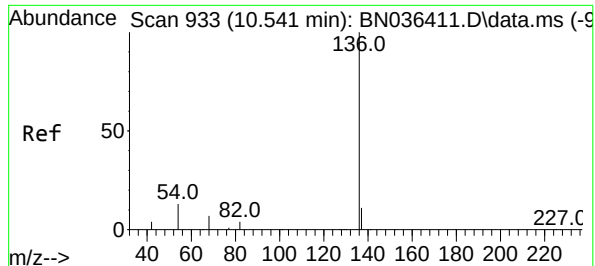
Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.8	21.7	32.5
71	40.7	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.217 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion	Ratio	Lower	Upper
93	100		
63	81.6	66.3	99.5
95	34.1	26.2	39.4

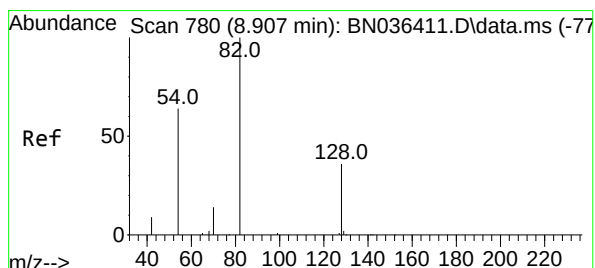
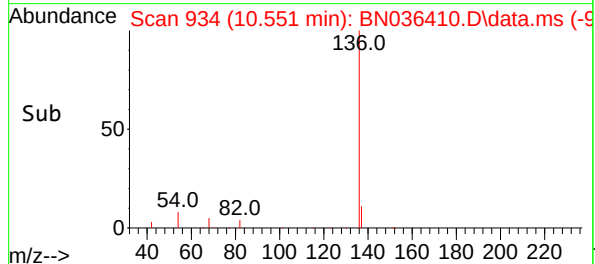
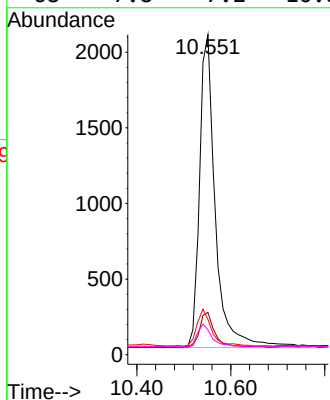
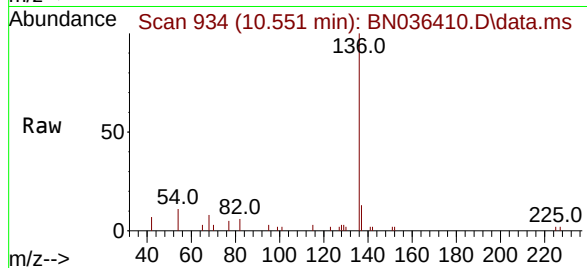




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.551 min Scan# 91
Delta R.T. 0.011 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

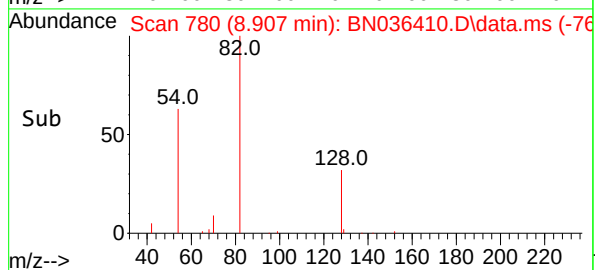
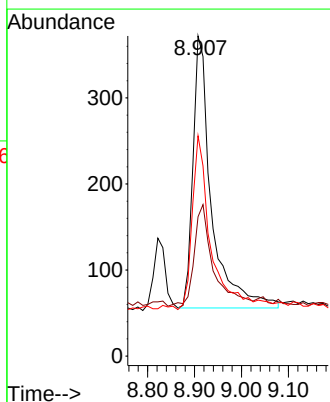
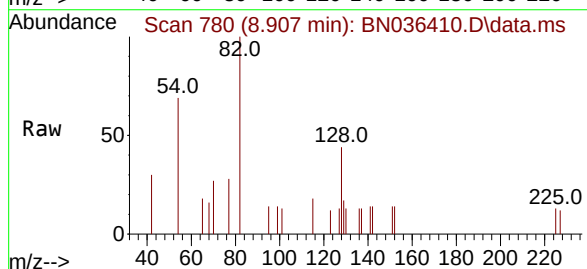
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

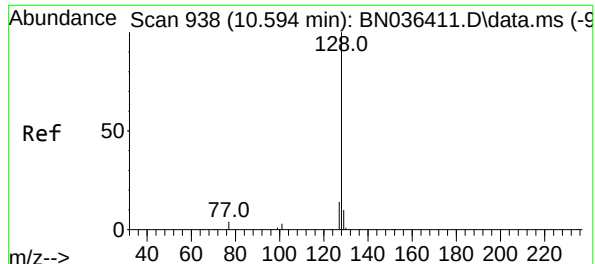
Tgt Ion:	136	Resp:	4791
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.1	15.1
54	11.1	11.8	17.6#
68	7.8	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:	82	Resp:	869
Ion	Ratio	Lower	Upper
82	100		
128	43.5	31.9	47.9
54	68.8	53.1	79.7

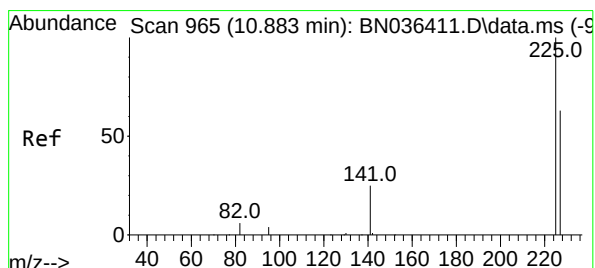
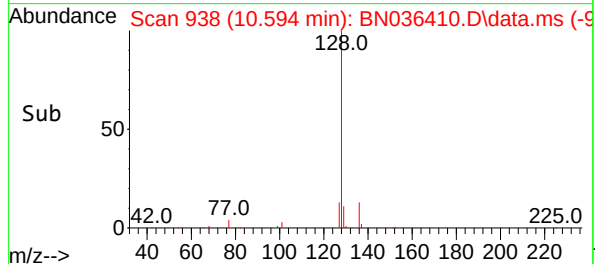
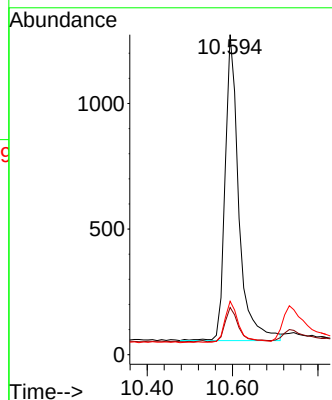
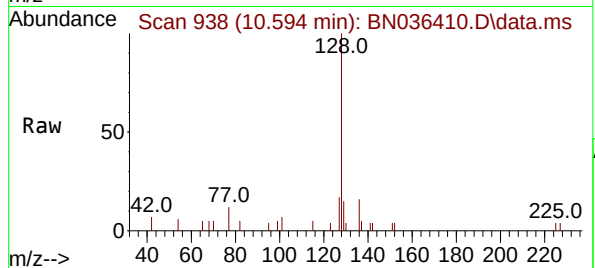




#9
Naphthalene
Concen: 0.200 ng
RT: 10.594 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

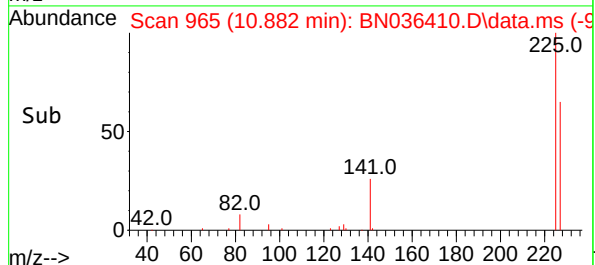
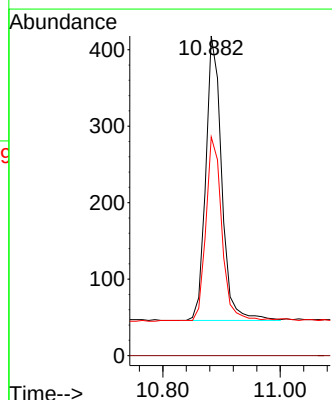
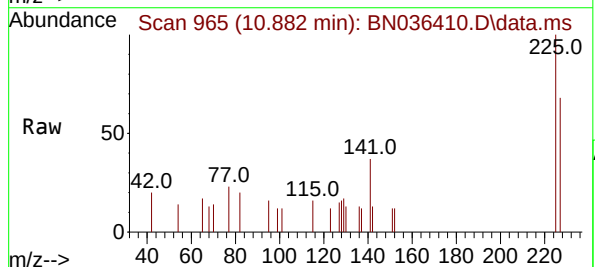
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

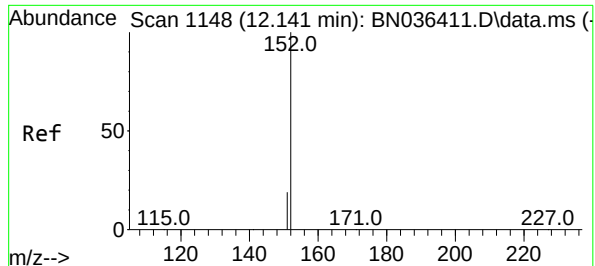
Tgt Ion:128 Resp: 2733
Ion Ratio Lower Upper
128 100
129 14.8 9.6 14.4#
127 16.7 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.164 ng
RT: 10.882 min Scan# 965
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:225 Resp: 702
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.9 76.3

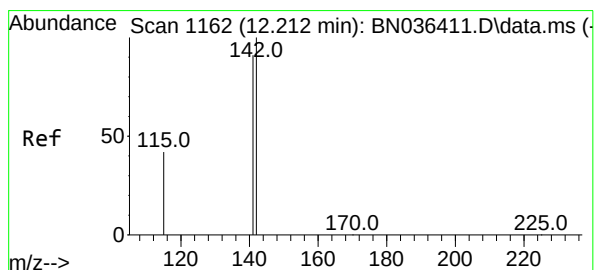
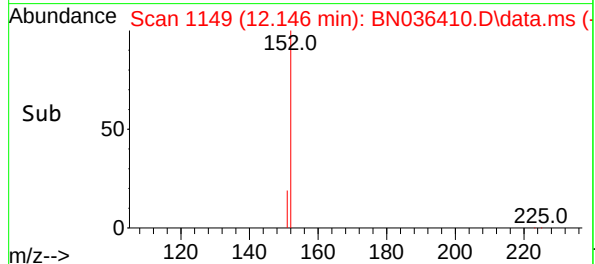
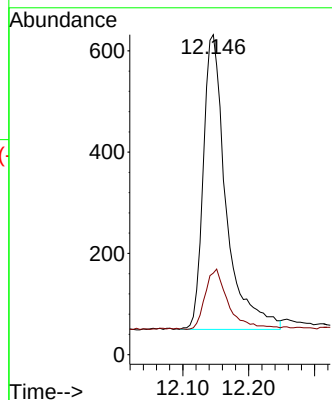
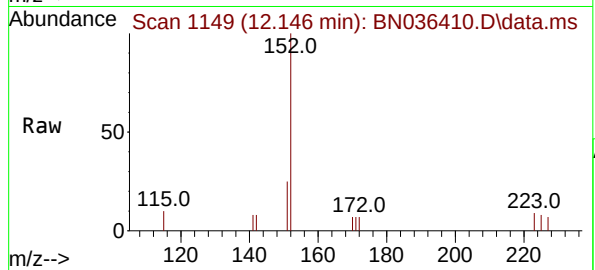




#11
2-Methylnaphthalene-d10
Concen: 0.213 ng
RT: 12.146 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

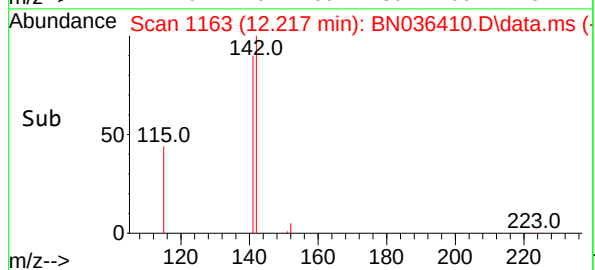
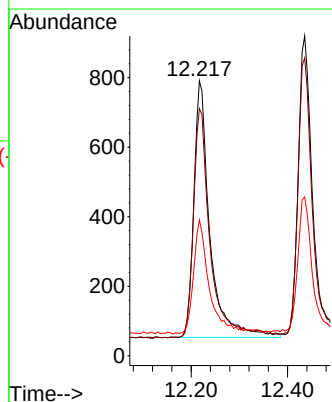
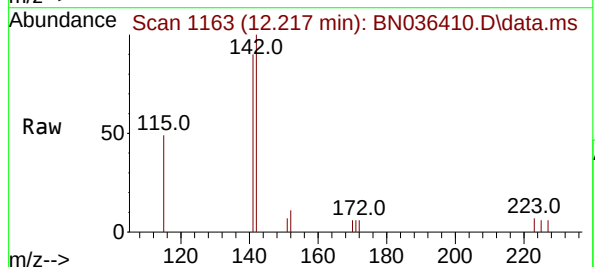
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

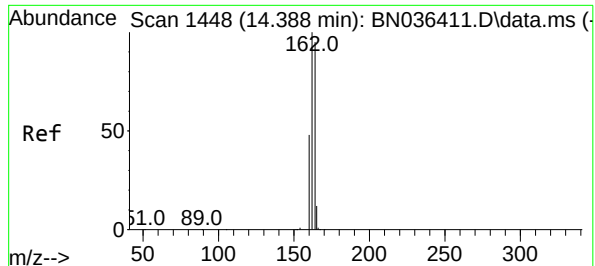
Tgt Ion:152 Resp: 1397
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.198 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:142 Resp: 1706
Ion Ratio Lower Upper
142 100
141 89.9 72.8 109.2
115 49.4 35.5 53.3

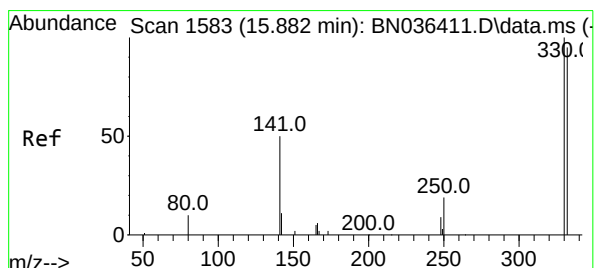
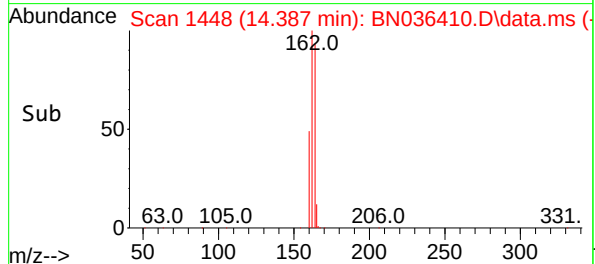
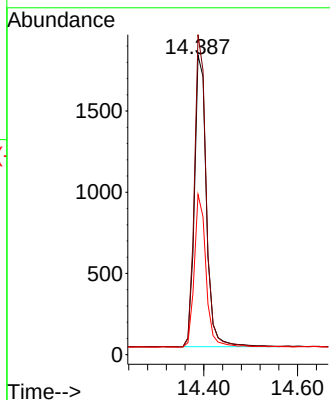
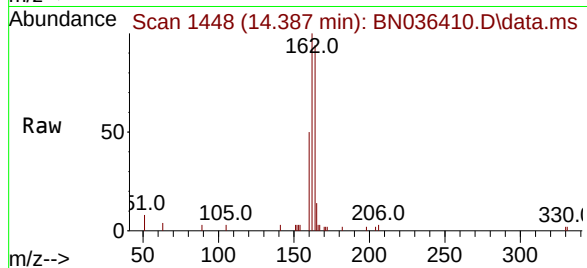




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

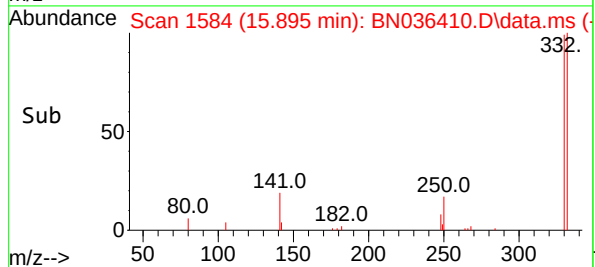
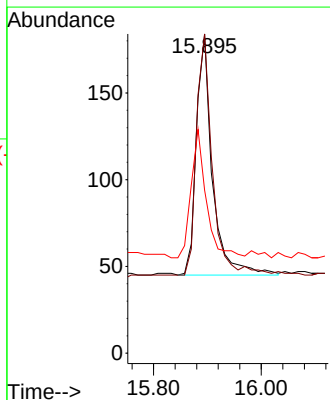
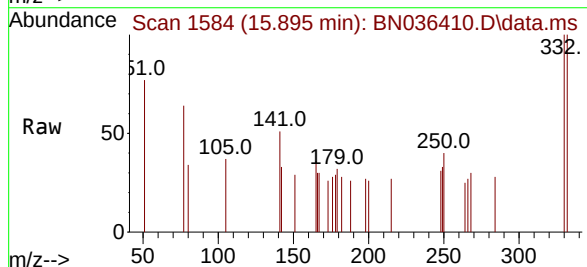
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

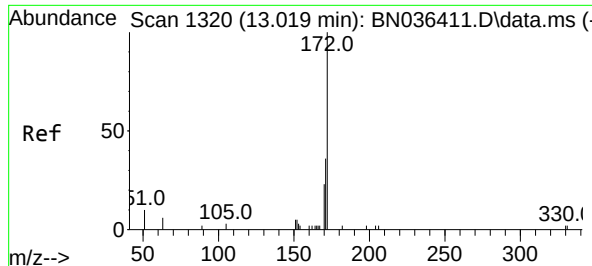
Tgt Ion:164 Resp: 3185
Ion Ratio Lower Upper
164 100
162 106.9 84.1 126.1
160 53.5 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.147 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.012 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:330 Resp: 289
Ion Ratio Lower Upper
330 100
332 99.0 76.6 114.8
141 49.8 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.163 ng

RT: 13.019 min Scan# 1320

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

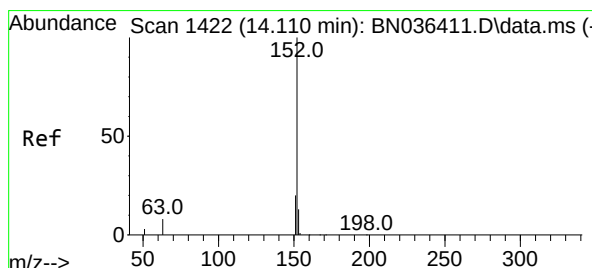
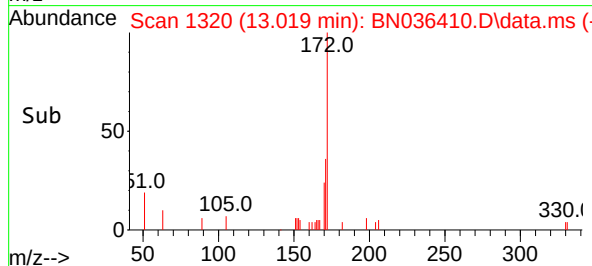
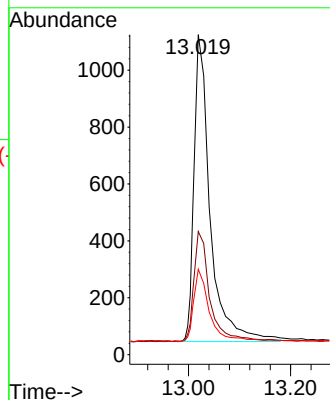
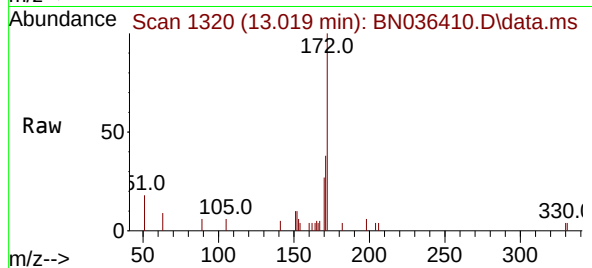
Tgt Ion:172 Resp: 2214

Ion Ratio Lower Upper

172 100

171 38.5 29.6 44.4

170 26.7 19.8 29.6



#16

Acenaphthylene

Concen: 0.180 ng

RT: 14.110 min Scan# 1422

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

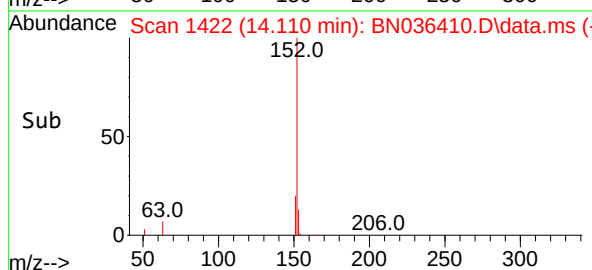
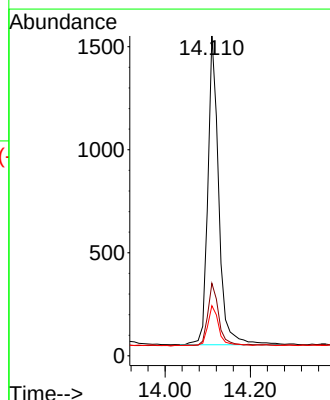
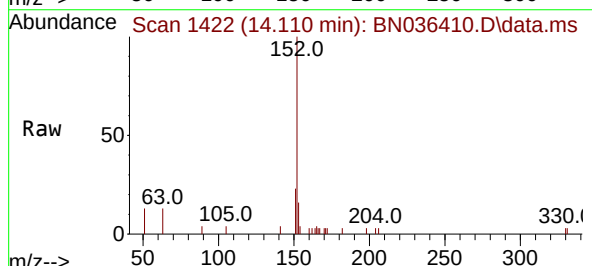
Tgt Ion:152 Resp: 2654

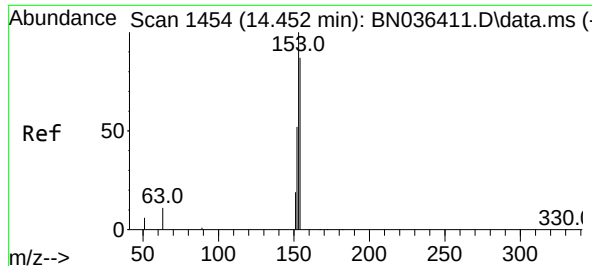
Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.8

153 13.9 10.2 15.2





#17

Acenaphthene

Concen: 0.177 ng

RT: 14.452 min Scan# 1454

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

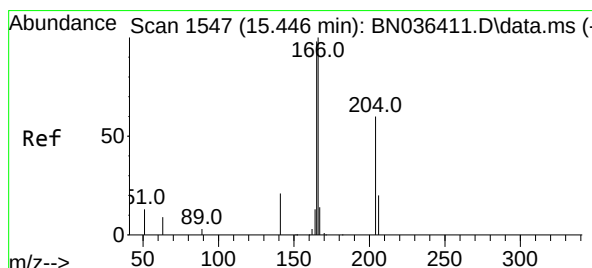
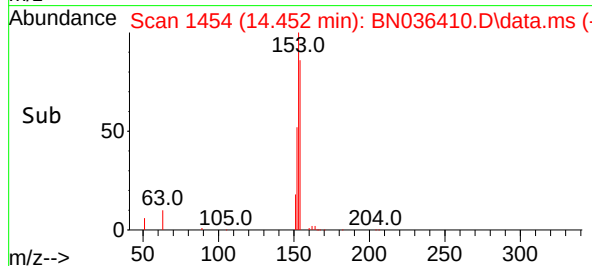
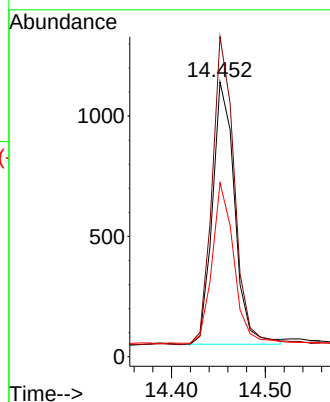
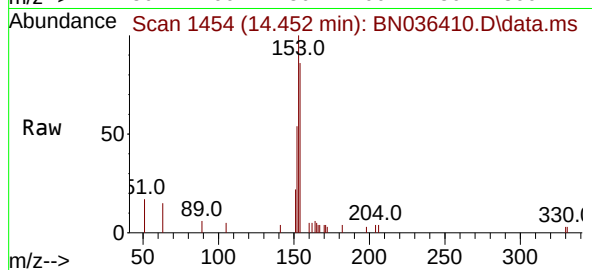
Tgt Ion:154 Resp: 1791

Ion Ratio Lower Upper

154 100

153 119.4 93.3 139.9

152 61.4 48.8 73.2



#18

Fluorene

Concen: 0.200 ng

RT: 15.446 min Scan# 1547

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

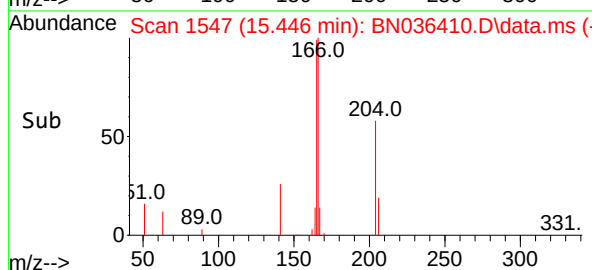
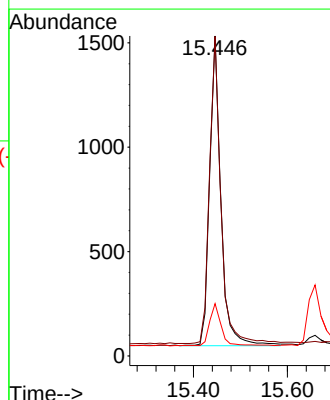
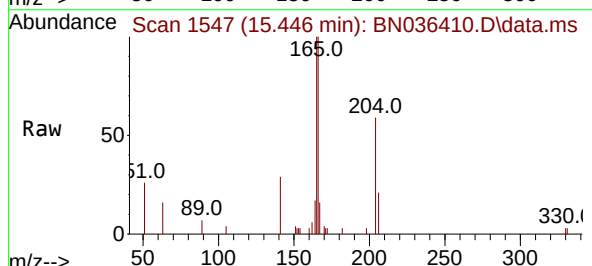
Tgt Ion:166 Resp: 2596

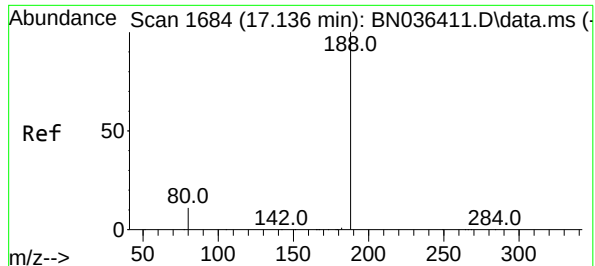
Ion Ratio Lower Upper

166 100

165 99.4 79.5 119.3

167 13.8 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

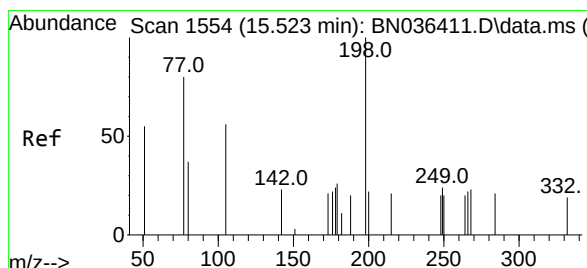
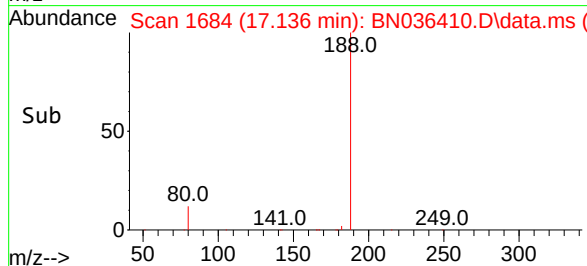
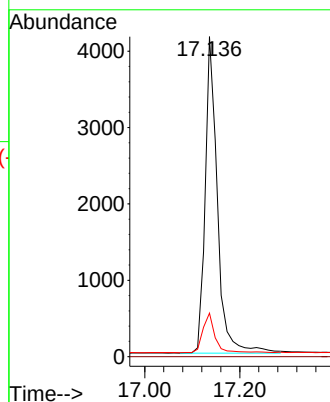
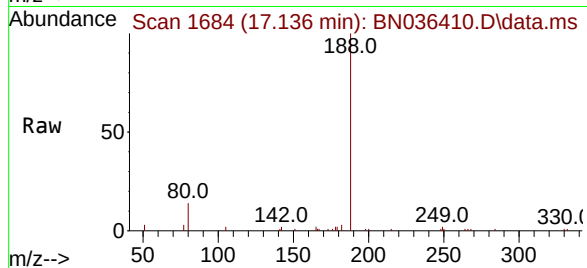
Tgt Ion:188 Resp: 7435

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.6 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.149 ng

RT: 15.535 min Scan# 1555

Delta R.T. 0.012 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

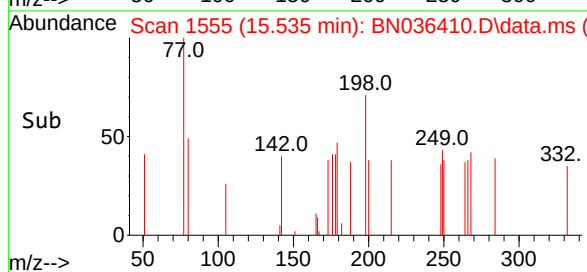
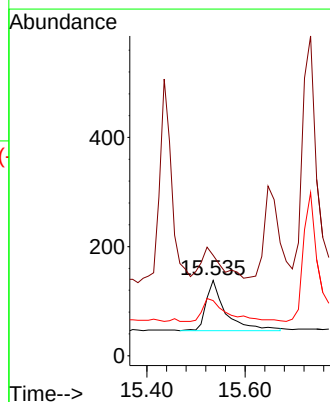
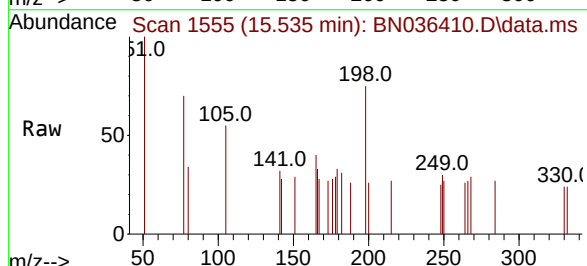
Tgt Ion:198 Resp: 248

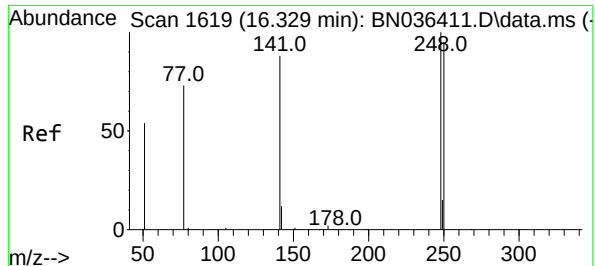
Ion Ratio Lower Upper

198 100

51 133.3 86.6 129.8#

105 73.2 57.5 86.3

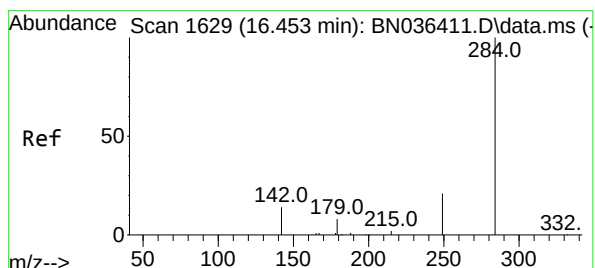
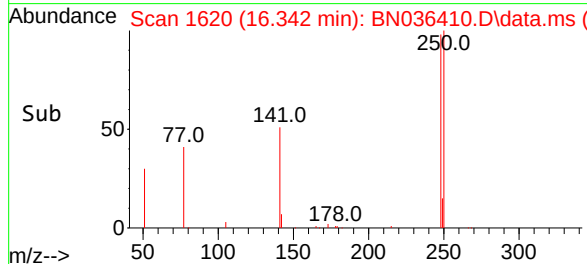
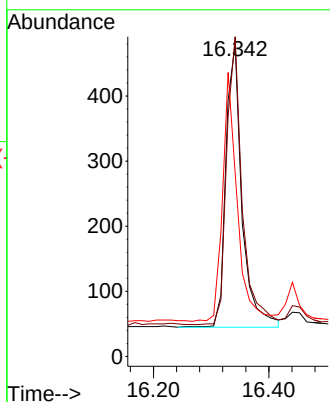
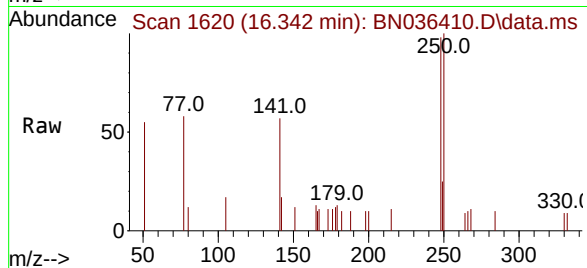




#21
4-Bromophenyl-phenylether
Concen: 0.166 ng
RT: 16.342 min Scan# 1620
Delta R.T. 0.012 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

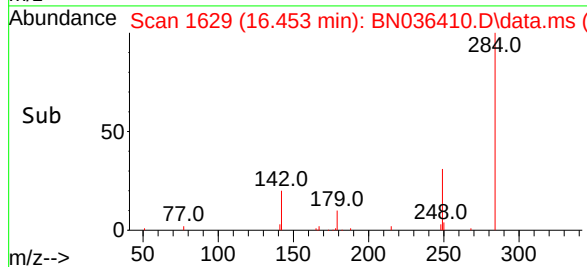
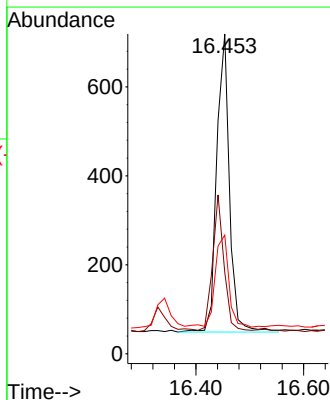
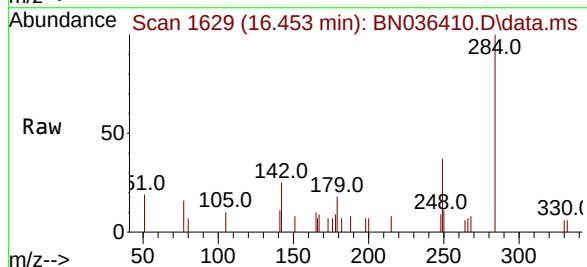
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

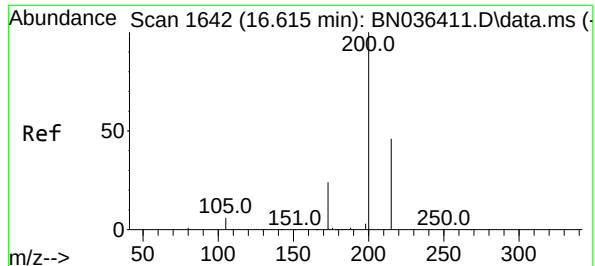
Tgt Ion:248 Resp: 844
Ion Ratio Lower Upper
248 100
250 102.3 76.1 114.1
141 58.7 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.166 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:284 Resp: 1101
Ion Ratio Lower Upper
284 100
142 39.9 33.4 50.0
249 33.7 28.6 43.0





#23

Atrazine

Concen: 0.188 ng

RT: 16.615 min Scan# 1642

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

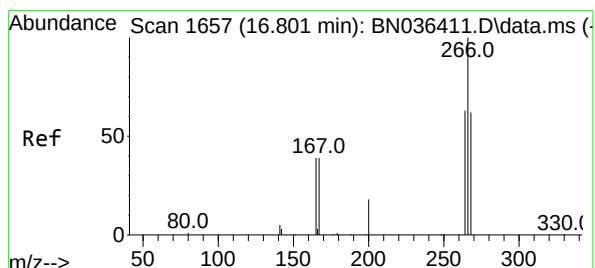
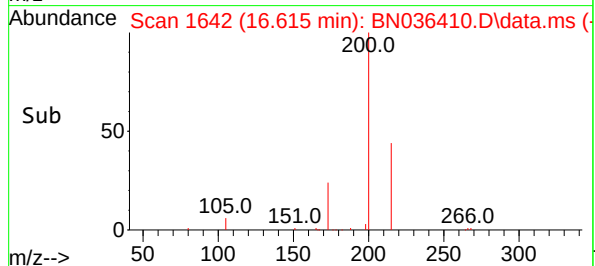
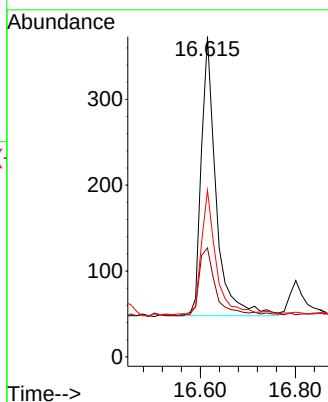
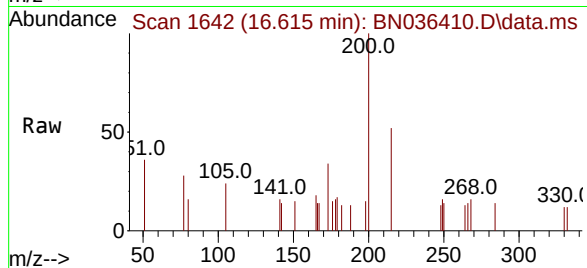
Tgt Ion:200 Resp: 705

Ion Ratio Lower Upper

200 100

173 34.0 23.2 34.8

215 52.0 40.0 60.0



#24

Pentachlorophenol

Concen: 0.159 ng

RT: 16.801 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

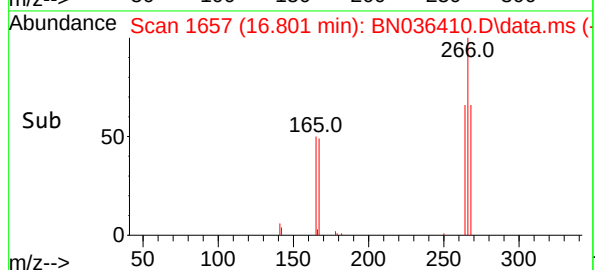
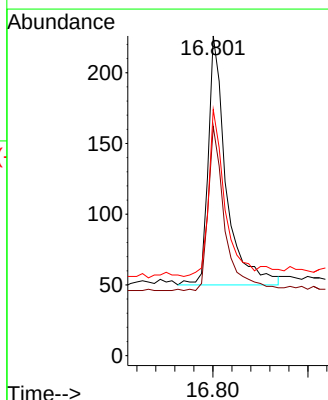
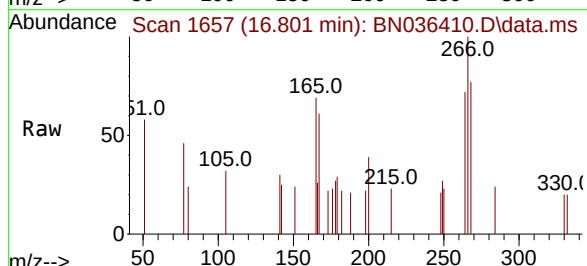
Tgt Ion:266 Resp: 463

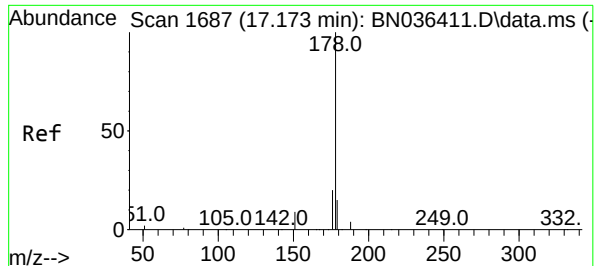
Ion Ratio Lower Upper

266 100

264 60.9 50.6 76.0

268 60.0 51.9 77.9

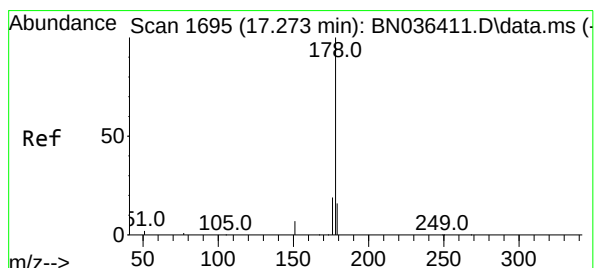
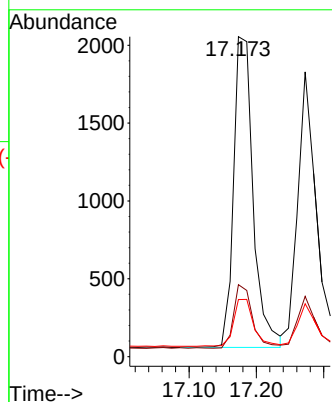
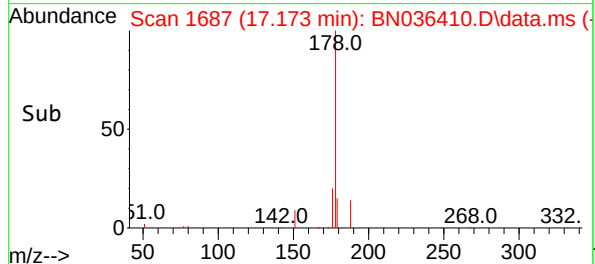
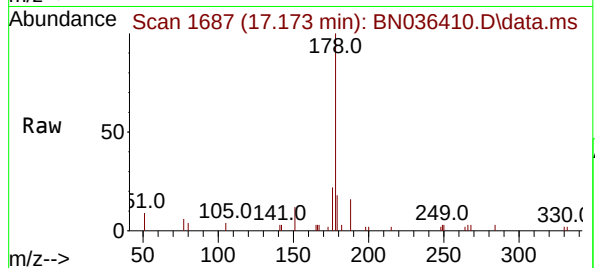




#25
Phenanthrene
Concen: 0.186 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

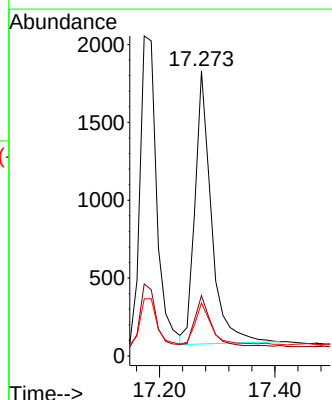
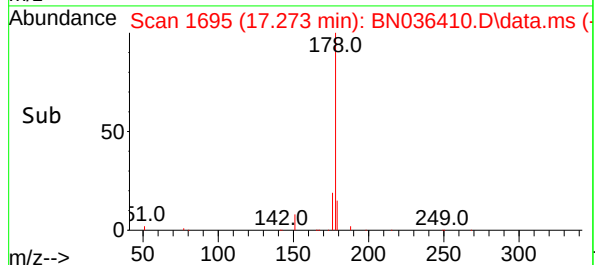
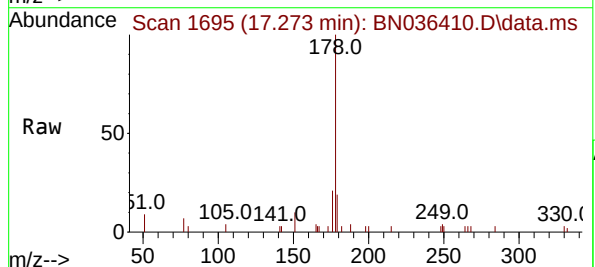
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

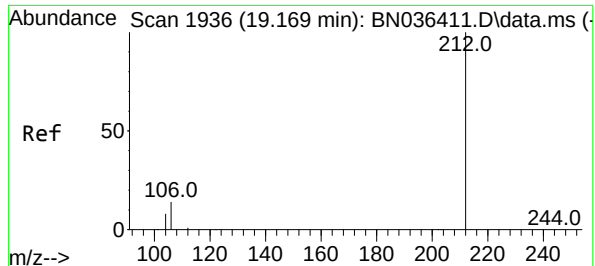
Tgt Ion:178 Resp: 4051
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.4 18.6



#26
Anthracene
Concen: 0.175 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:178 Resp: 3467
Ion Ratio Lower Upper
178 100
176 19.6 14.9 22.3
179 16.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.203 ng

RT: 19.173 min Scan# 1937

Delta R.T. 0.005 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

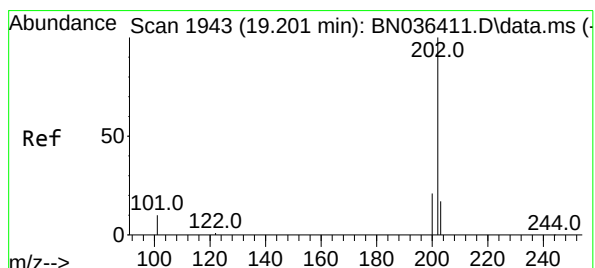
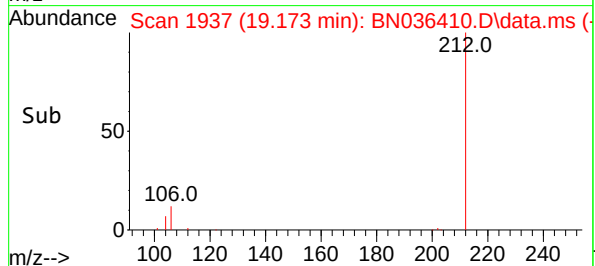
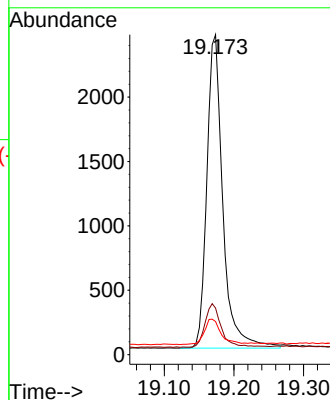
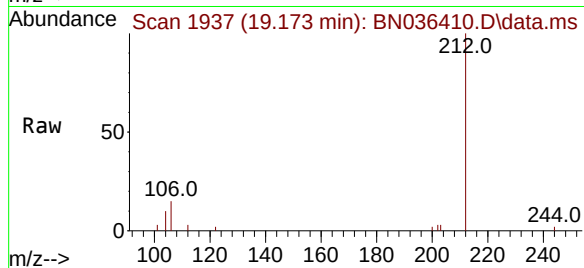
Tgt Ion:212 Resp: 3879

Ion Ratio Lower Upper

212 100

106 14.1 11.5 17.3

104 8.6 7.1 10.7



#28

Fluoranthene

Concen: 0.190 ng

RT: 19.201 min Scan# 1943

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

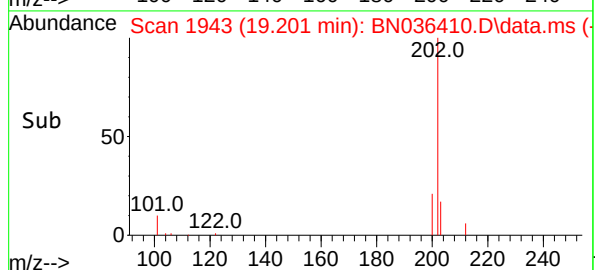
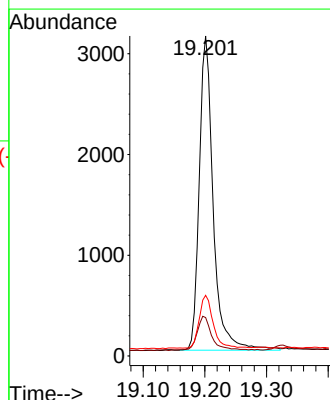
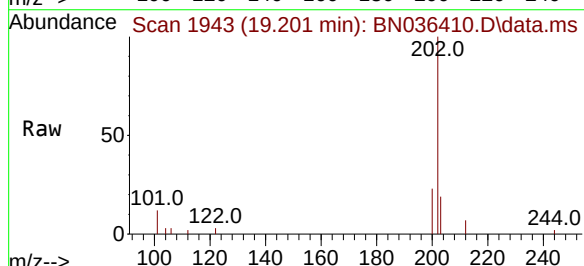
Tgt Ion:202 Resp: 4918

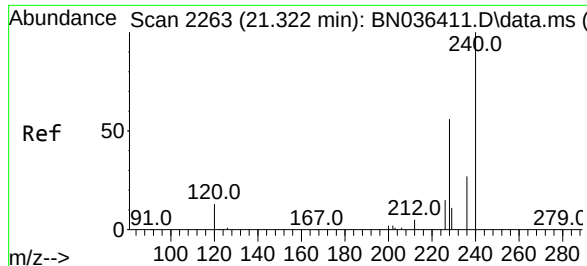
Ion Ratio Lower Upper

202 100

101 11.6 9.2 13.8

203 16.7 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.331 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

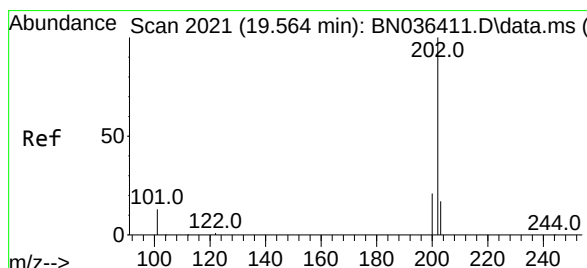
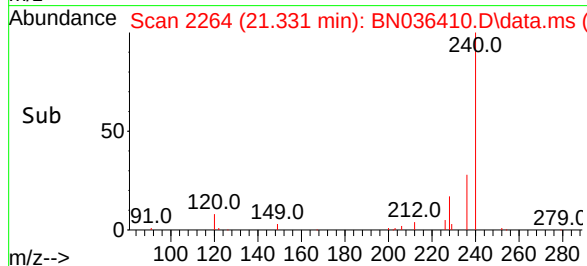
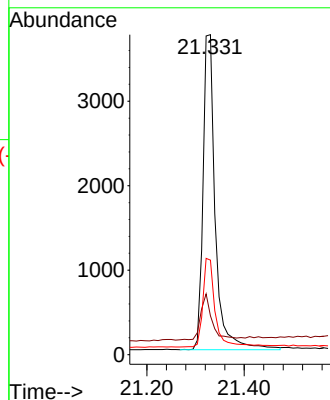
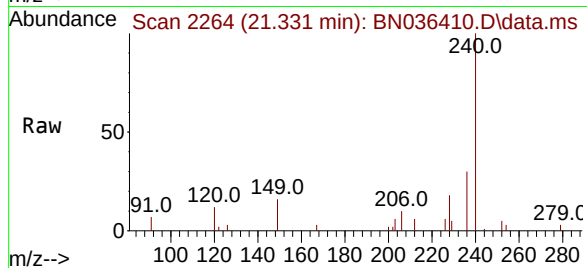
Tgt Ion:240 Resp: 6531

Ion Ratio Lower Upper

240 100

120 12.1 13.3 19.9#

236 29.5 23.0 34.6



#30

Pyrene

Concen: 0.196 ng

RT: 19.564 min Scan# 2021

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

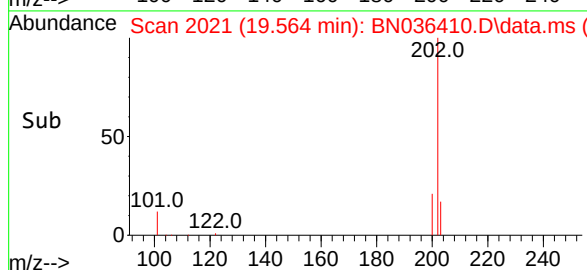
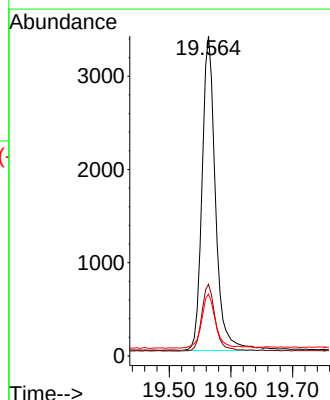
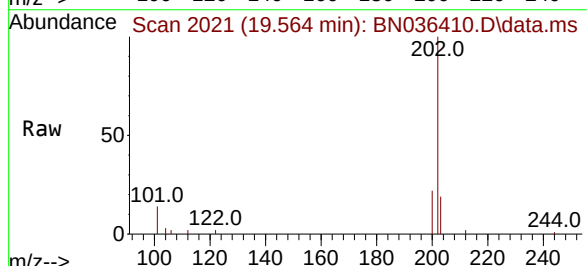
Tgt Ion:202 Resp: 5119

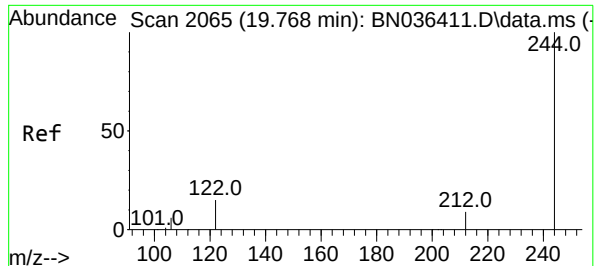
Ion Ratio Lower Upper

202 100

200 21.0 16.9 25.3

203 17.6 13.9 20.9

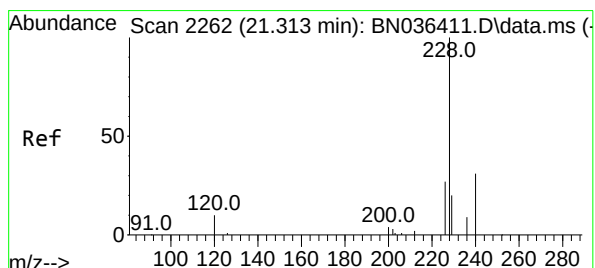
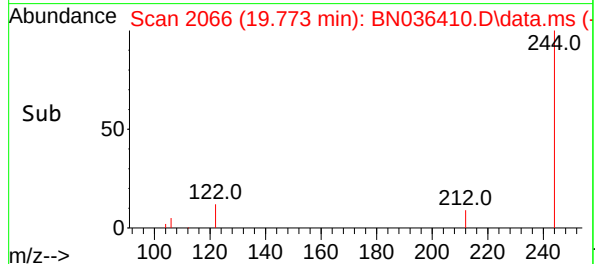
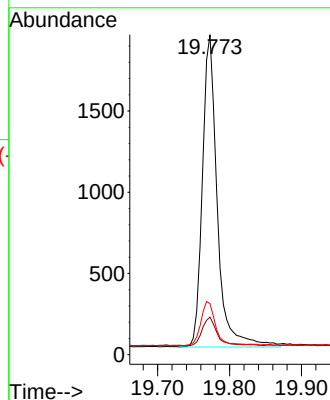
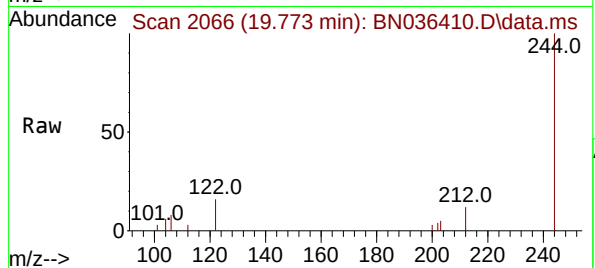




#31
Terphenyl-d14
Concen: 0.204 ng
RT: 19.773 min Scan# 2066
Delta R.T. 0.005 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

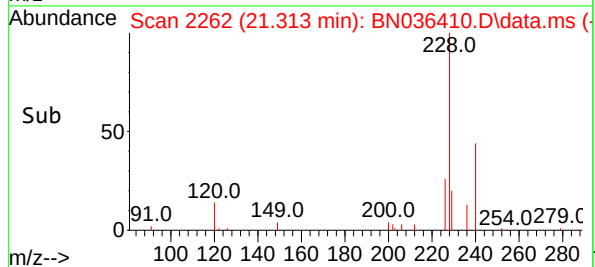
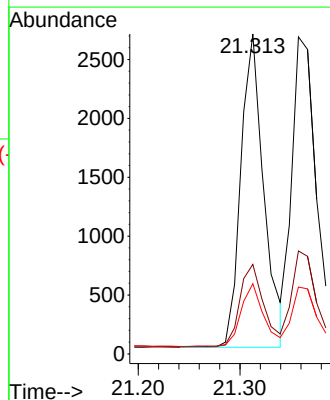
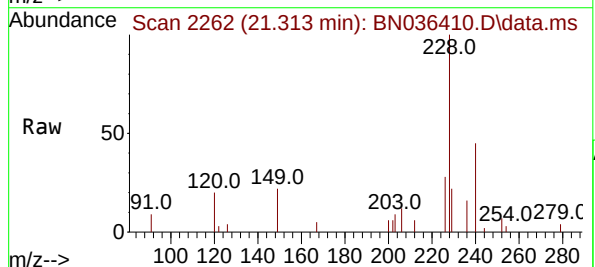
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

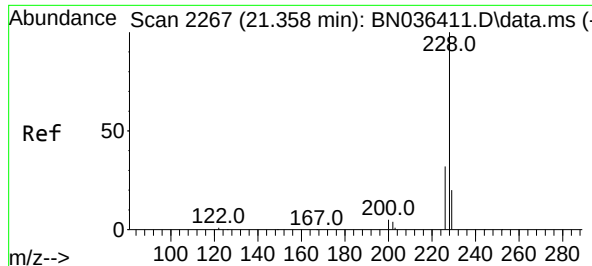
Tgt Ion:244 Resp: 2765
Ion Ratio Lower Upper
244 100
212 11.8 8.1 12.1
122 15.9 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.180 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.000 min
Lab File: BN036410.D
Acq: 10 Feb 2025 13:01

Tgt Ion:228 Resp: 4166
Ion Ratio Lower Upper
228 100
226 28.0 22.2 33.2
229 21.9 16.5 24.7





#33

Chrysene

Concen: 0.200 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

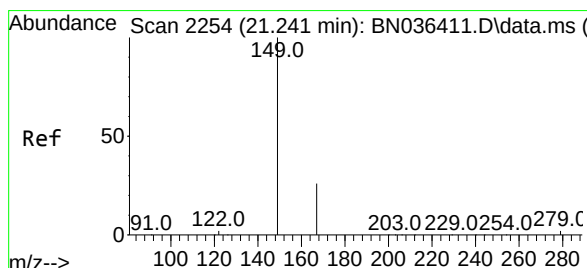
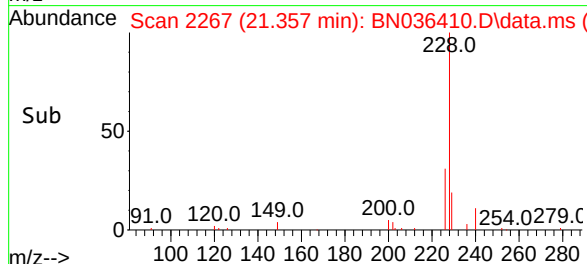
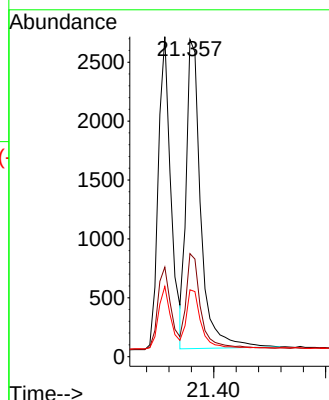
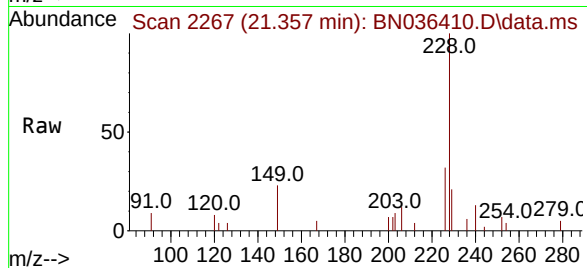
Tgt Ion:228 Resp: 4754

Ion Ratio Lower Upper

228 100

226 32.5 25.5 38.3

229 21.1 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.221 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

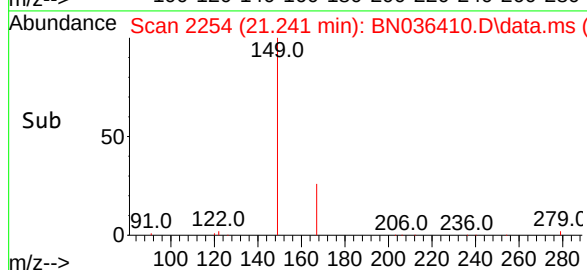
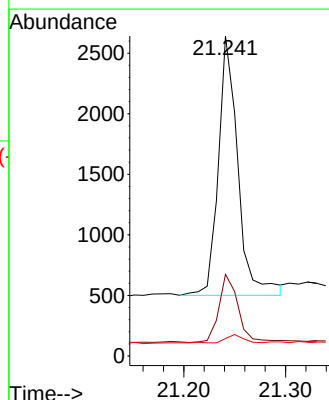
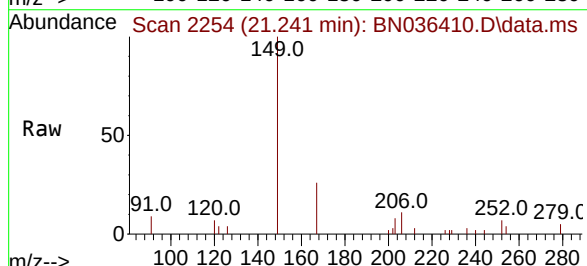
Tgt Ion:149 Resp: 2858

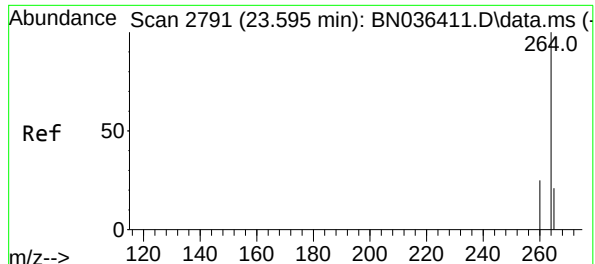
Ion Ratio Lower Upper

149 100

167 26.6 21.2 31.8

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

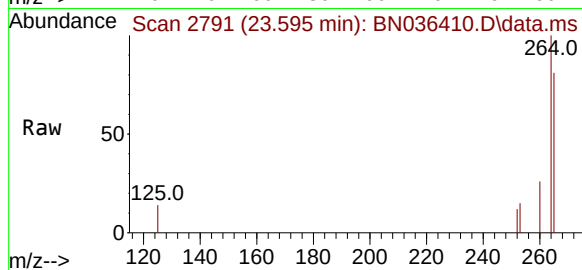
Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



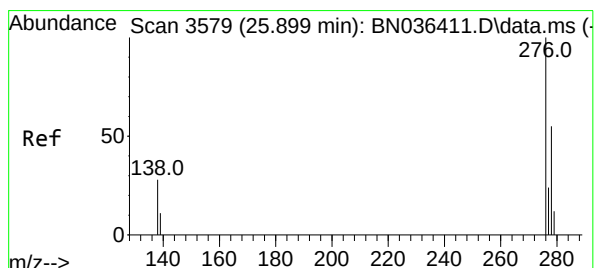
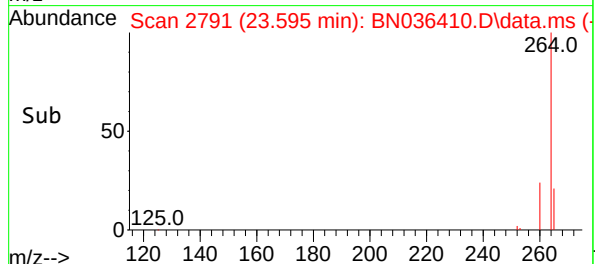
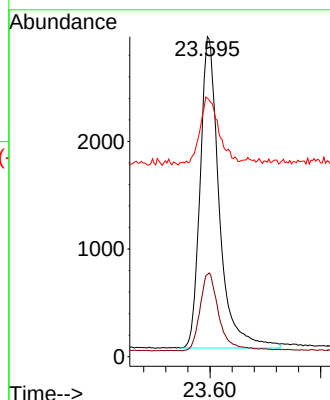
Tgt Ion:264 Resp: 6918

Ion Ratio Lower Upper

264 100

260 25.7 20.9 31.3

265 80.8 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.164 ng

RT: 25.905 min Scan# 3581

Delta R.T. 0.006 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

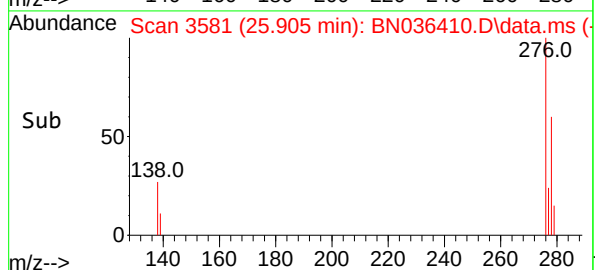
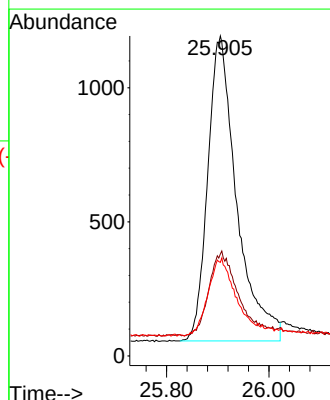
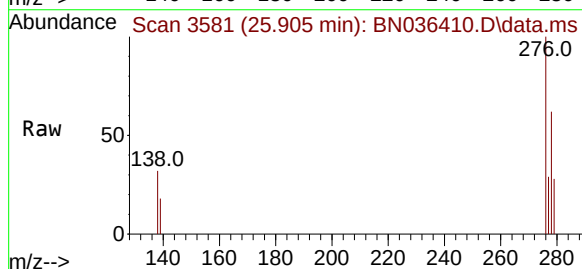
Tgt Ion:276 Resp: 4459

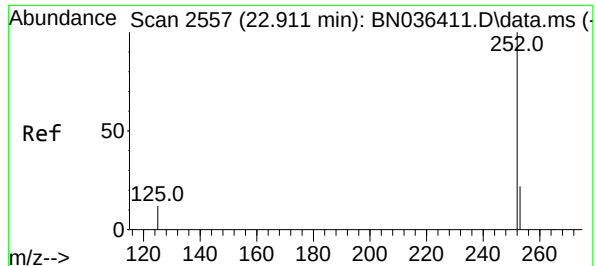
Ion Ratio Lower Upper

276 100

138 28.4 22.2 33.2

277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.172 ng

RT: 22.914 min Scan# 2557

Delta R.T. 0.003 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

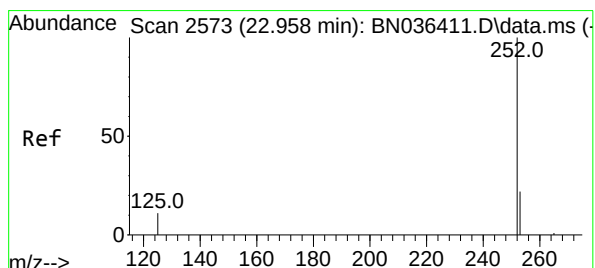
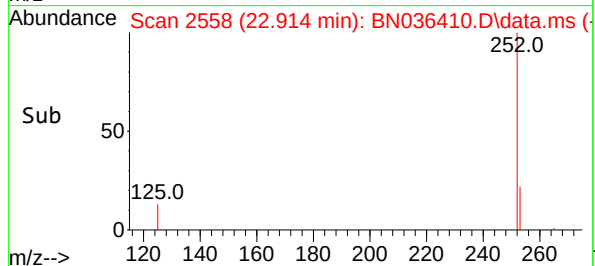
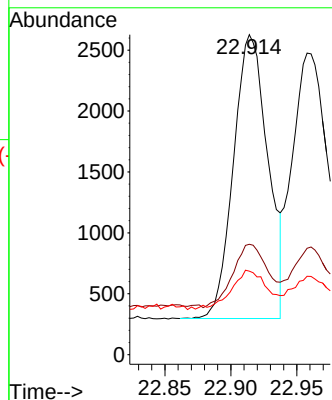
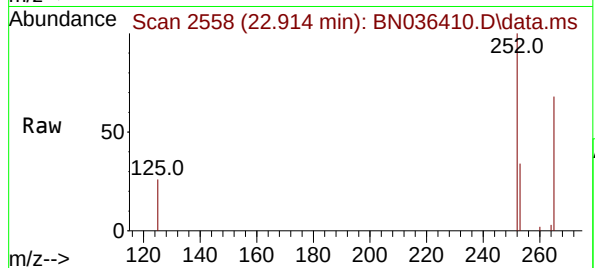
Tgt Ion:252 Resp: 4220

Ion Ratio Lower Upper

252 100

253 34.5 21.9 32.9#

125 26.1 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.173 ng

RT: 22.958 min Scan# 2573

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

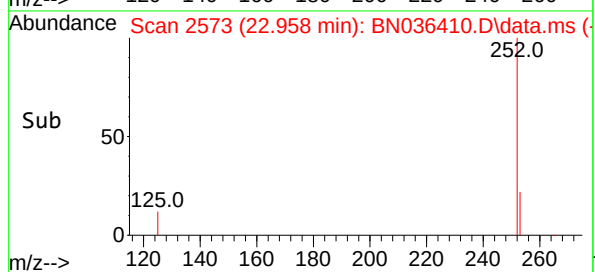
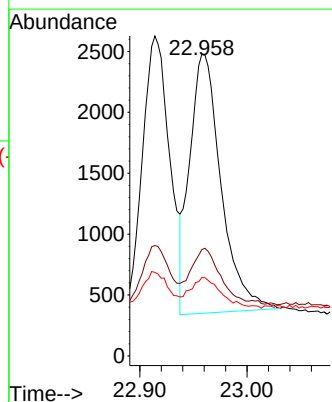
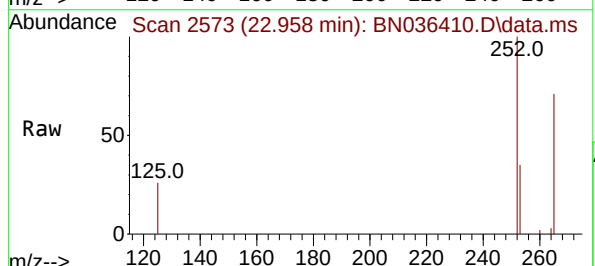
Tgt Ion:252 Resp: 4335

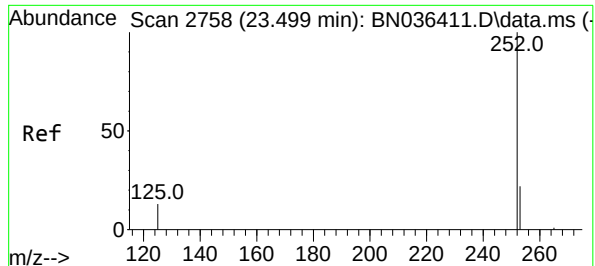
Ion Ratio Lower Upper

252 100

253 35.3 22.2 33.4#

125 26.0 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.177 ng

RT: 23.499 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

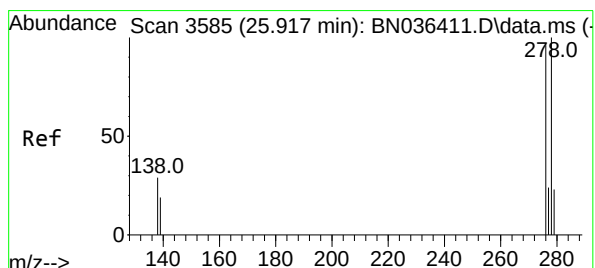
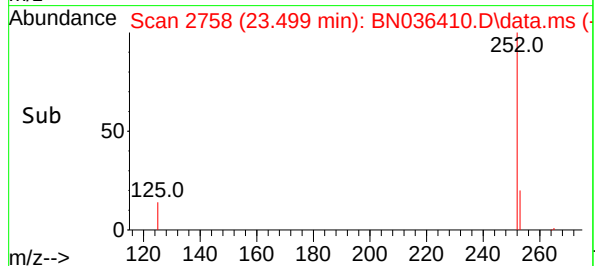
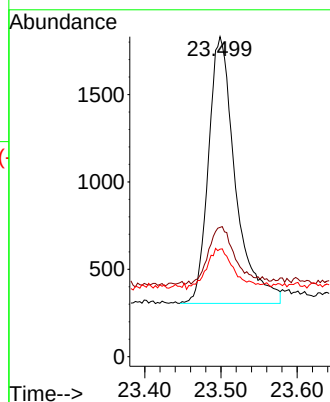
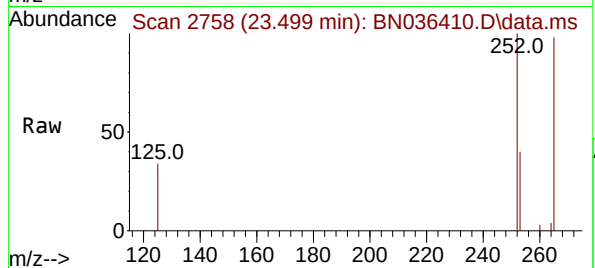
Tgt Ion:252 Resp: 3740

Ion Ratio Lower Upper

252 100

253 40.4 24.4 36.6#

125 33.6 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.164 ng

RT: 25.919 min Scan# 3586

Delta R.T. 0.003 min

Lab File: BN036410.D

Acq: 10 Feb 2025 13:01

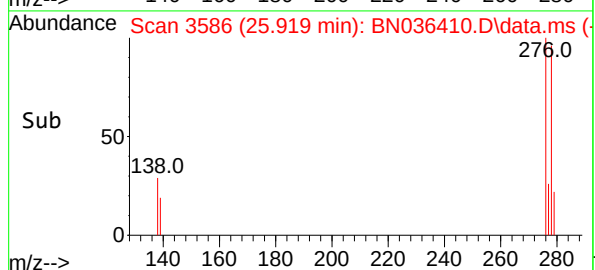
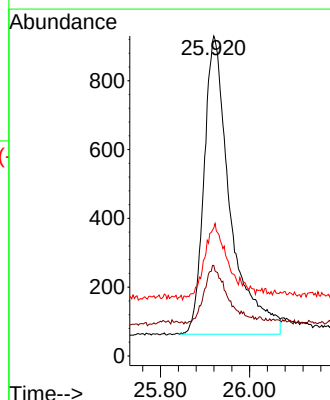
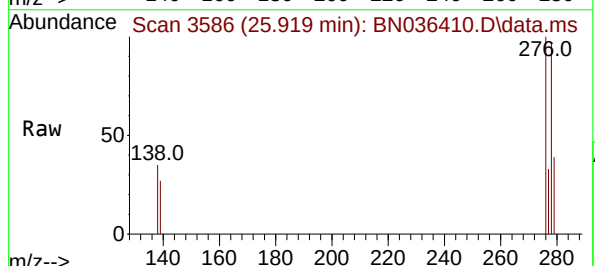
Tgt Ion:278 Resp: 3533

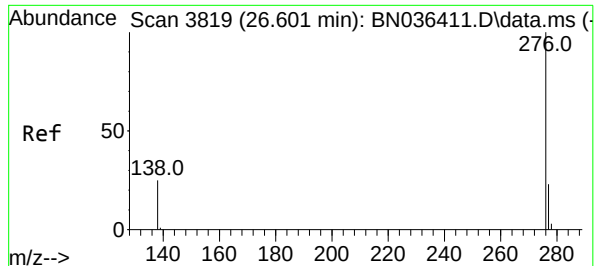
Ion Ratio Lower Upper

278 100

139 28.3 18.5 27.7#

279 40.0 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 0.177 ng

RT: 26.601 min Scan# 3819

Delta R.T. -0.000 min

Lab File: BN036410.D

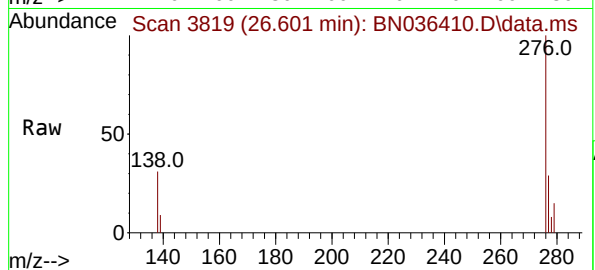
Acq: 10 Feb 2025 13:01

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



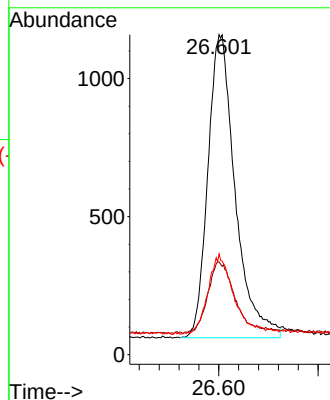
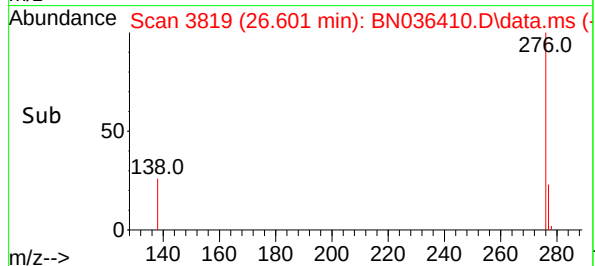
Tgt Ion:276 Resp: 4192

Ion Ratio Lower Upper

276 100

277 29.0 20.7 31.1

138 31.5 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036411.D
 Acq On : 10 Feb 2025 13:36
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

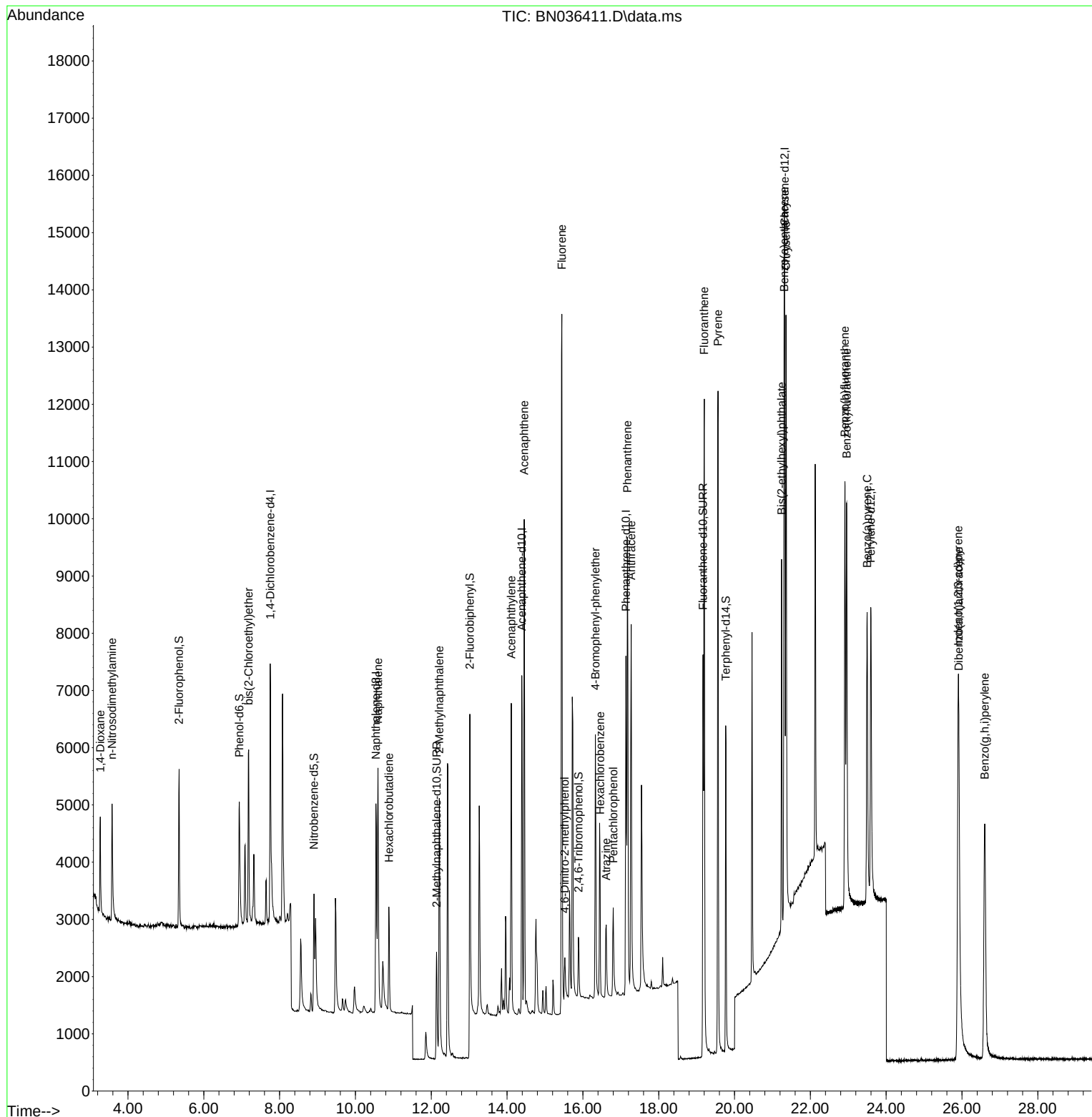
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2219	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5528	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3606	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8328	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7484	0.400	ng	0.00
35) Perylene-d12	23.595	264	7735	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	2078	0.368	ng	0.00
5) Phenol-d6	6.937	99	2290	0.348	ng	0.00
8) Nitrobenzene-d5	8.907	82	2015	0.391	ng	0.00
11) 2-Methylnaphthalene-d10	12.141	152	3329	0.440	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	670	0.302	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	4965	0.323	ng	0.00
27) Fluoranthene-d10	19.169	212	8851	0.413	ng	0.00
31) Terphenyl-d14	19.768	244	6378	0.412	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.268	88	961	0.392	ng	99
3) n-Nitrosodimethylamine	3.579	42	1695	0.385	ng	100
6) bis(2-Chloroethyl)ether	7.183	93	2410	0.440	ng	100
9) Naphthalene	10.594	128	6168	0.391	ng	100
10) Hexachlorobutadiene	10.883	225	1567	0.317	ng	# 100
12) 2-Methylnaphthalene	12.212	142	4078	0.411	ng	100
16) Acenaphthylene	14.110	152	6103	0.366	ng	100
17) Acenaphthene	14.452	154	4132	0.362	ng	100
18) Fluorene	15.446	166	5991	0.407	ng	99
20) 4,6-Dinitro-2-methylph...	15.523	198	572	0.307	ng	100
21) 4-Bromophenyl-phenylether	16.329	248	1920	0.337	ng	100
22) Hexachlorobenzene	16.453	284	2369	0.318	ng	100
23) Atrazine	16.615	200	1560	0.372	ng	100
24) Pentachlorophenol	16.801	266	1018	0.313	ng	99
25) Phenanthrene	17.173	178	9119	0.374	ng	100
26) Anthracene	17.273	178	8056	0.363	ng	100
28) Fluoranthene	19.201	202	11264	0.389	ng	100
30) Pyrene	19.564	202	11479	0.384	ng	100
32) Benzo(a)anthracene	21.313	228	9677	0.364	ng	100
33) Chrysene	21.358	228	10178	0.373	ng	100
34) Bis(2-ethylhexyl)phtha...	21.241	149	5815	0.392	ng	100
36) Indeno(1,2,3-cd)pyrene	25.899	276	10661	0.351	ng	100
37) Benzo(b)fluoranthene	22.911	252	9743	0.355	ng	100
38) Benzo(k)fluoranthene	22.958	252	10543	0.377	ng	100
39) Benzo(a)pyrene	23.499	252	8521	0.362	ng	100
40) Dibenzo(a,h)anthracene	25.917	278	8314	0.344	ng	100
41) Benzo(g,h,i)perylene	26.601	276	9701	0.366	ng	100

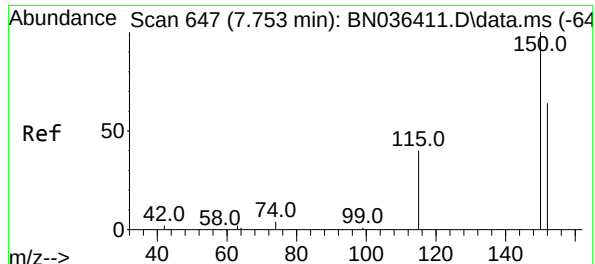
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036411.D
Acq On : 10 Feb 2025 13:36
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Feb 11 00:35:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

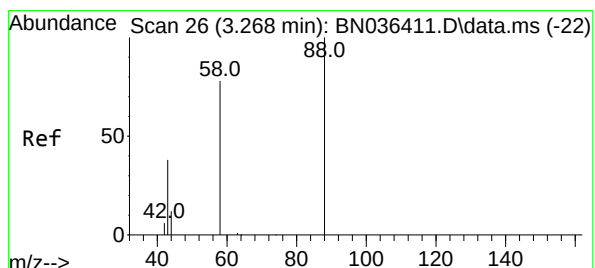
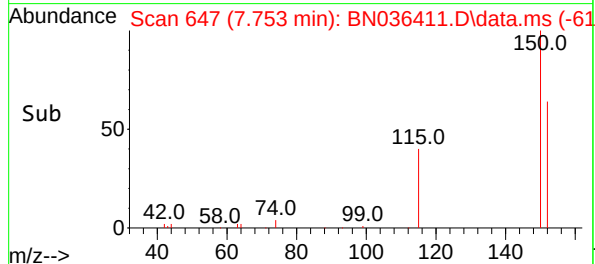
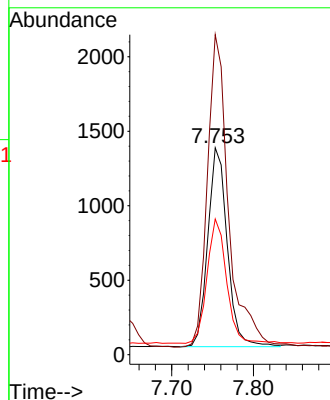
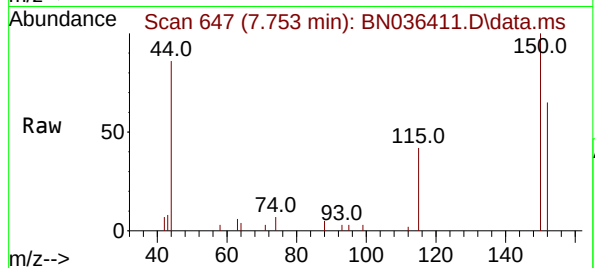




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

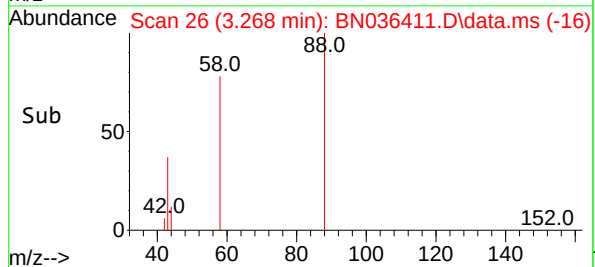
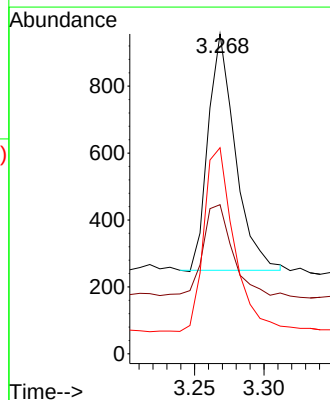
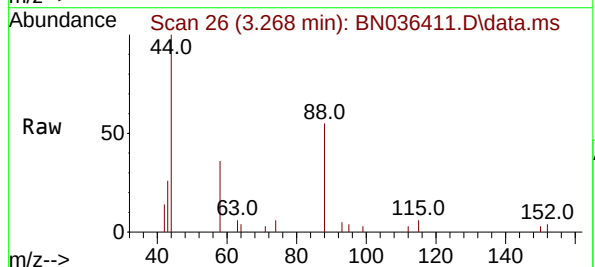
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

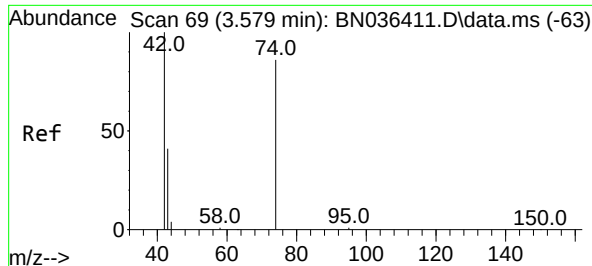
Tgt Ion:152 Resp: 2219
Ion Ratio Lower Upper
152 100
150 154.6 123.7 185.5
115 65.6 52.5 78.7



#2
1,4-Dioxane
Concen: 0.392 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion: 88 Resp: 961
Ion Ratio Lower Upper
88 100
43 41.4 33.7 50.5
58 87.1 68.9 103.3

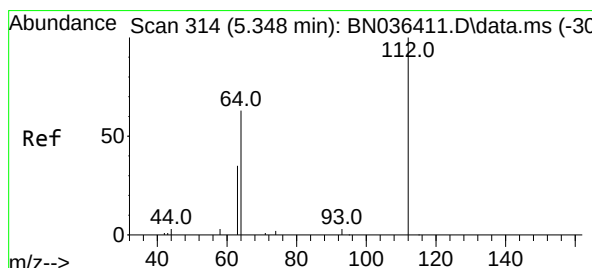
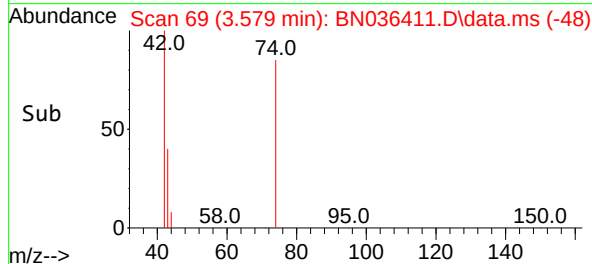
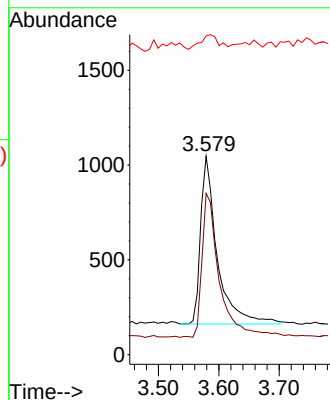
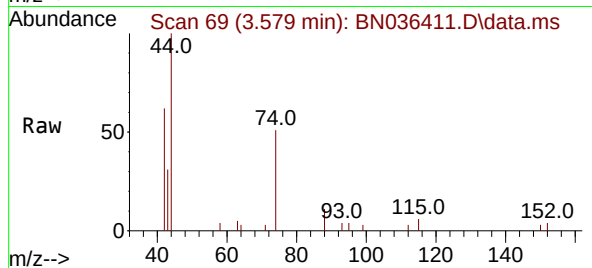




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.579 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

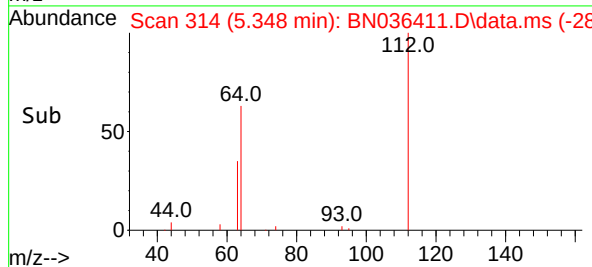
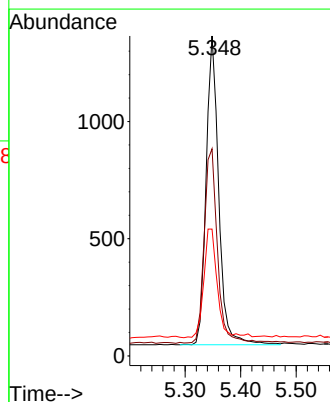
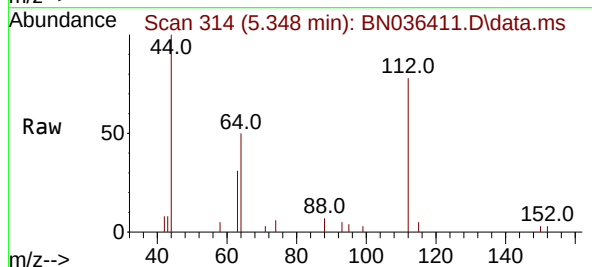
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

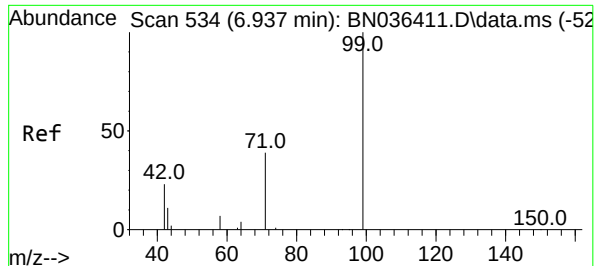
Tgt Ion: 42 Resp: 1695
Ion Ratio Lower Upper
42 100
74 89.7 71.8 107.6
44 9.7 7.8 11.6



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion: 112 Resp: 2078
Ion Ratio Lower Upper
112 100
64 66.7 53.4 80.0
63 37.9 30.3 45.5

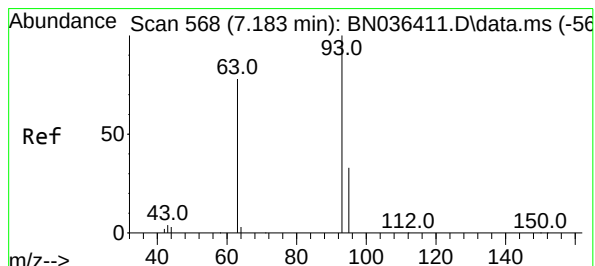
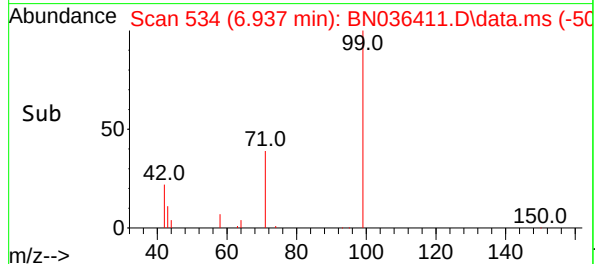
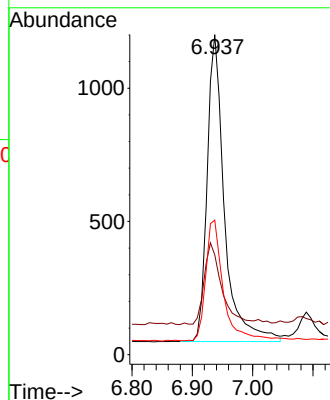
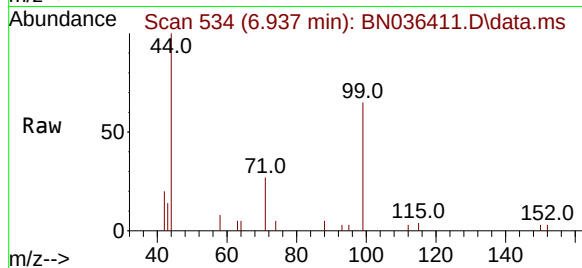




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.937 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

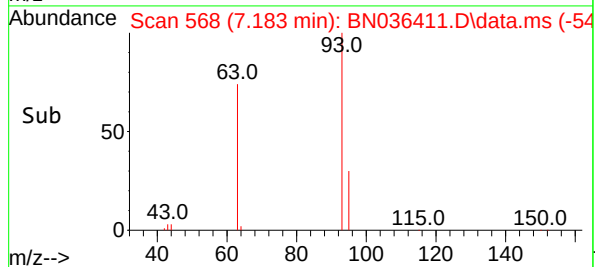
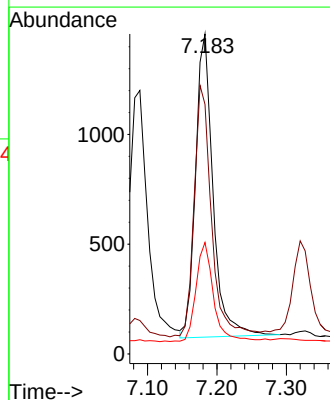
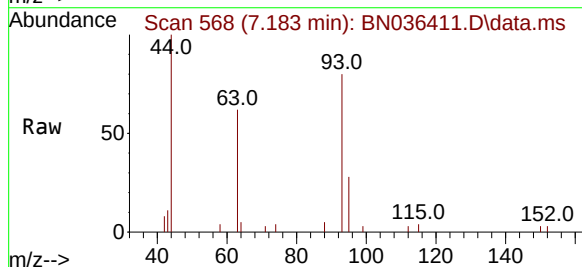
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

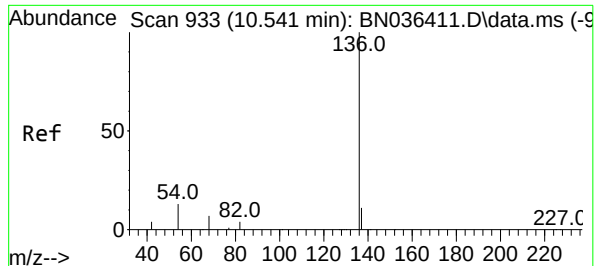
Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.1	21.7	32.5
71	40.8	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.183 min Scan# 568
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	Ratio	Lower	Upper
93	100		
63	82.9	66.3	99.5
95	32.8	26.2	39.4

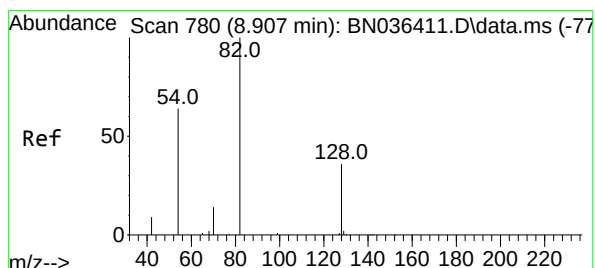
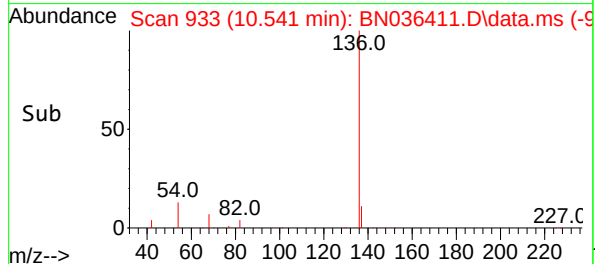
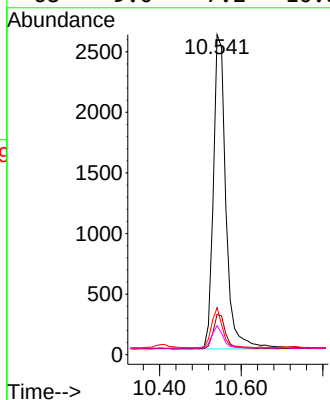
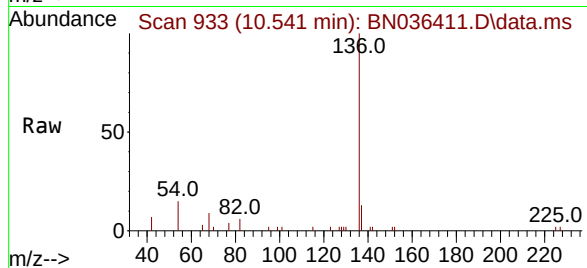




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

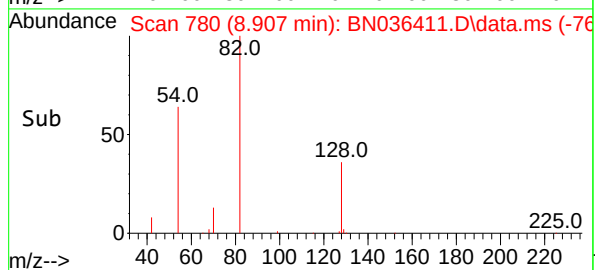
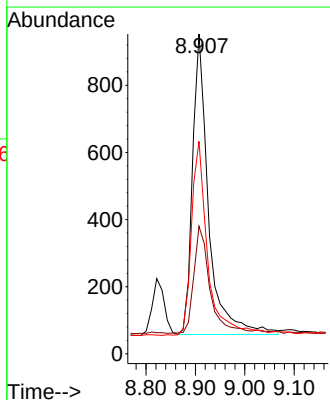
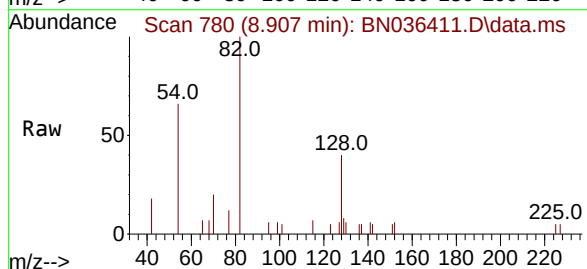
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

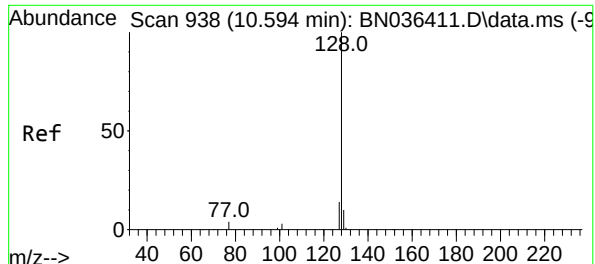
Tgt Ion:	136	Resp:	5528
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.1	15.1
54	14.7	11.8	17.6
68	9.0	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:	82	Resp:	2015
Ion	Ratio	Lower	Upper
82	100		
128	39.9	31.9	47.9
54	66.4	53.1	79.7

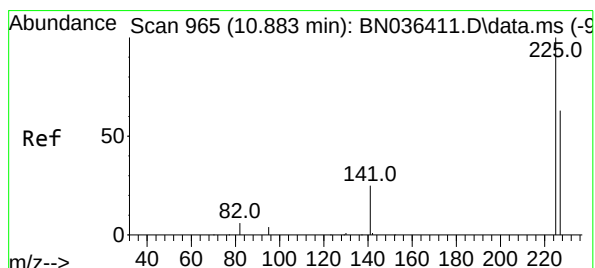
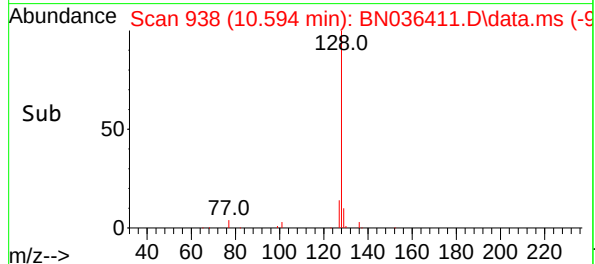
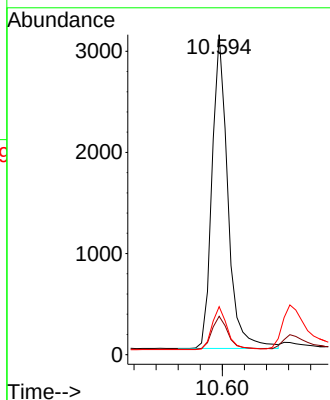
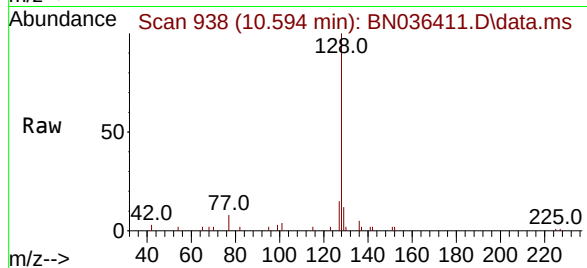




#9
Naphthalene
Concen: 0.391 ng
RT: 10.594 min Scan# 938
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

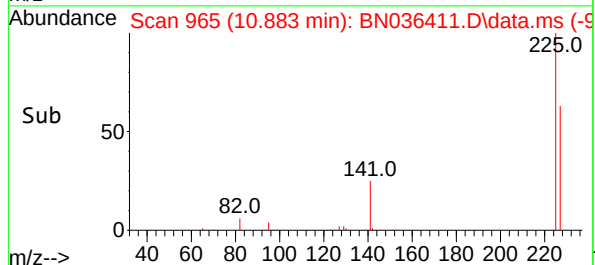
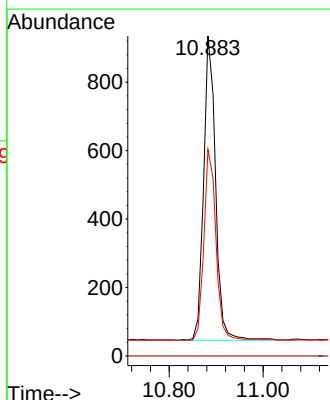
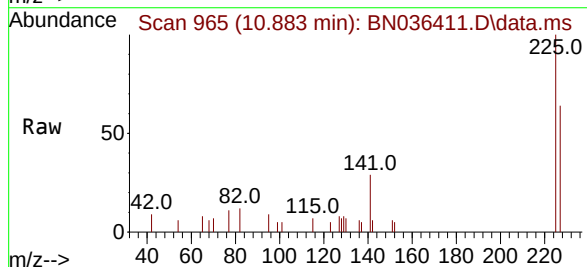
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

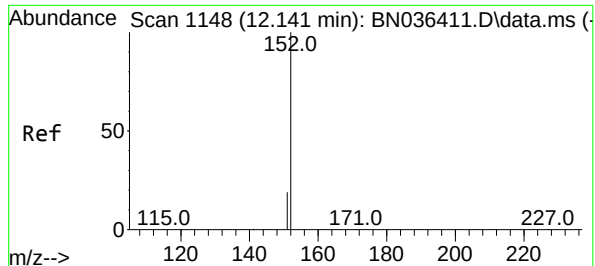
Tgt Ion:128 Resp: 6168
Ion Ratio Lower Upper
128 100
129 12.0 9.6 14.4
127 15.0 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.317 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:225 Resp: 1567
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.9 76.3

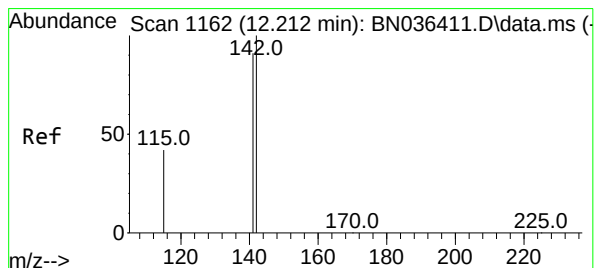
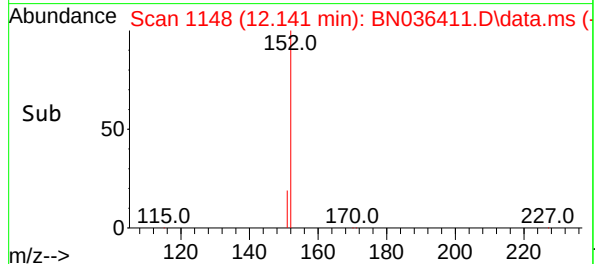
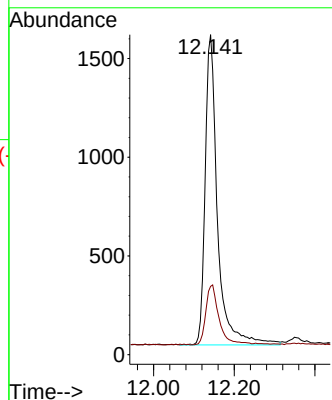
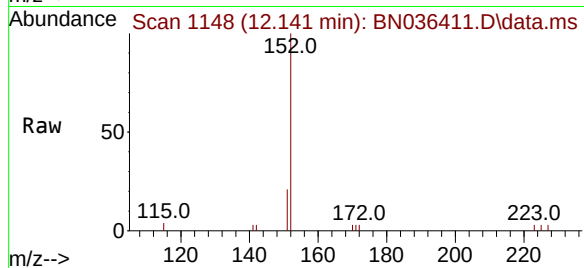




#11
2-Methylnaphthalene-d10
Concen: 0.440 ng
RT: 12.141 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

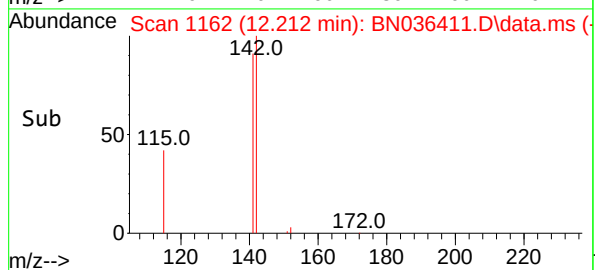
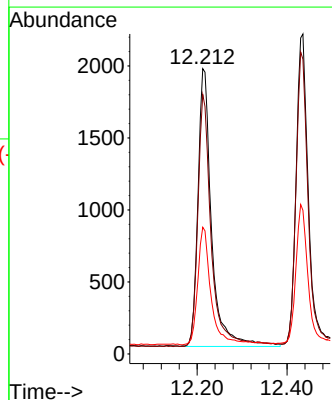
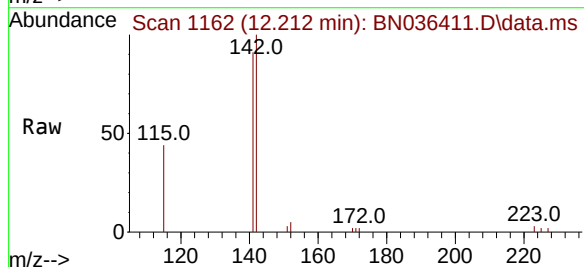
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

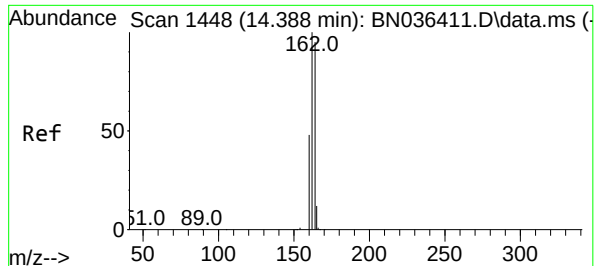
Tgt Ion:152 Resp: 3329
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.411 ng
RT: 12.212 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:142 Resp: 4078
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 44.4 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.388 min Scan# 1448

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

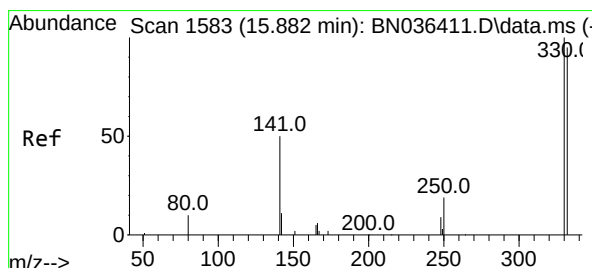
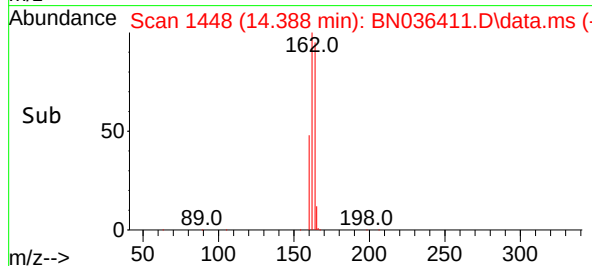
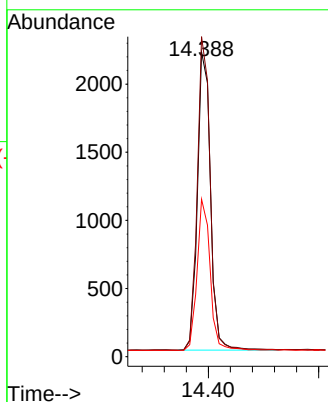
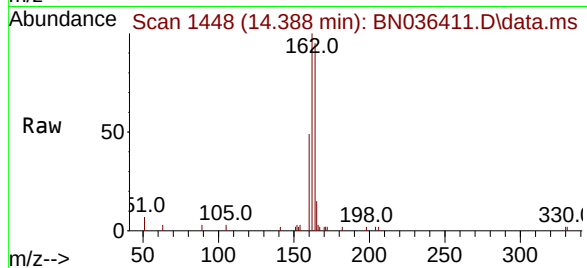
Tgt Ion:164 Resp: 3606

Ion Ratio Lower Upper

164 100

162 105.1 84.1 126.1

160 51.7 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 0.302 ng

RT: 15.882 min Scan# 1583

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

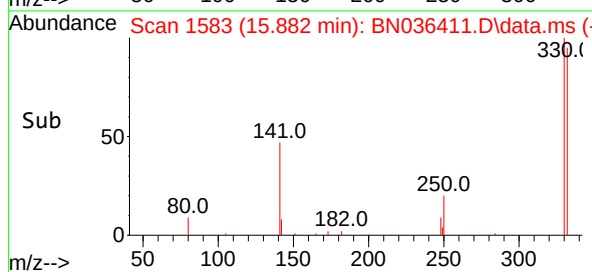
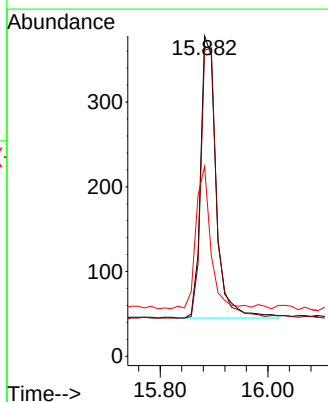
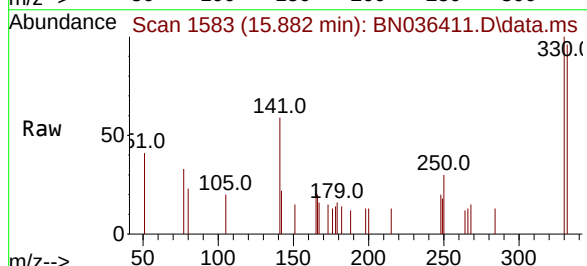
Tgt Ion:330 Resp: 670

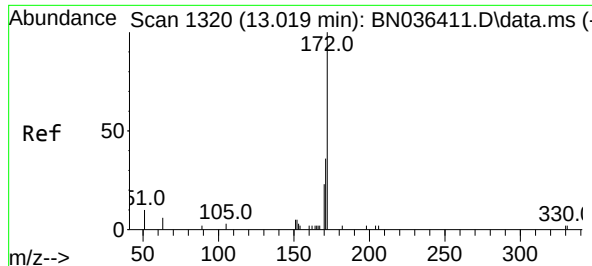
Ion Ratio Lower Upper

330 100

332 95.7 76.6 114.8

141 47.3 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.323 ng

RT: 13.019 min Scan# 1320

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

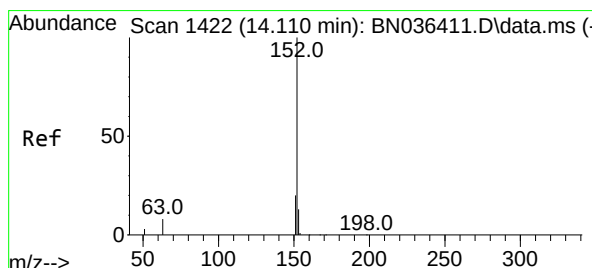
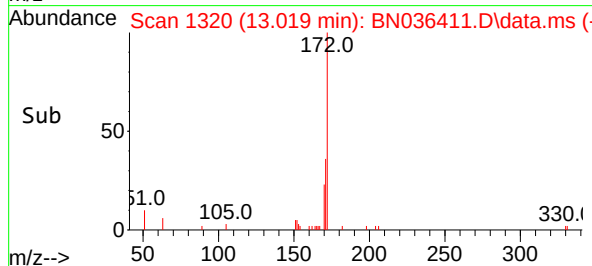
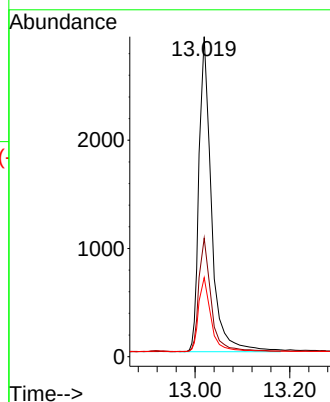
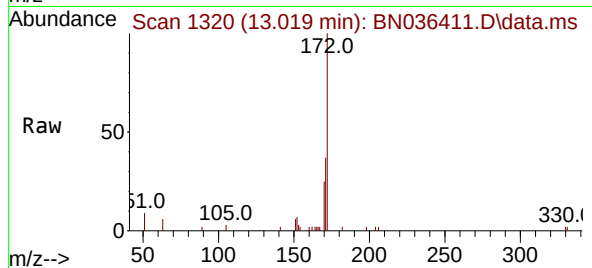
Tgt Ion:172 Resp: 4965

Ion Ratio Lower Upper

172 100

171 37.0 29.6 44.4

170 24.7 19.8 29.6



#16

Acenaphthylene

Concen: 0.366 ng

RT: 14.110 min Scan# 1422

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

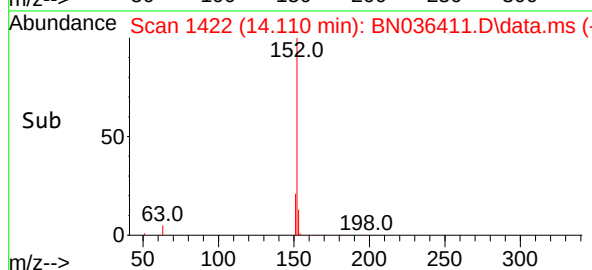
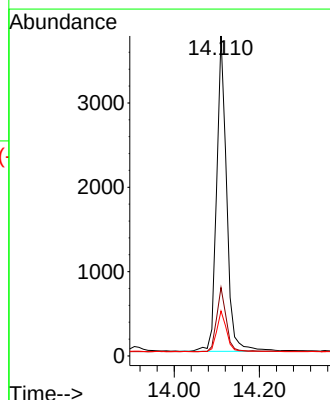
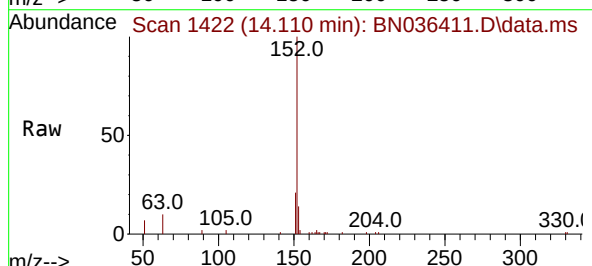
Tgt Ion:152 Resp: 6103

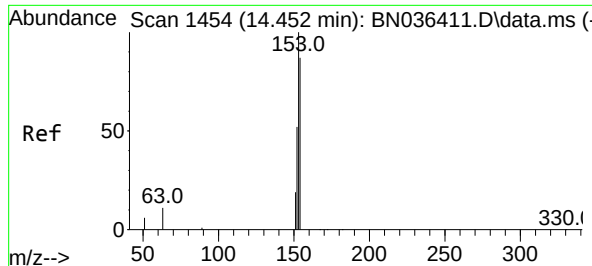
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 12.7 10.2 15.2

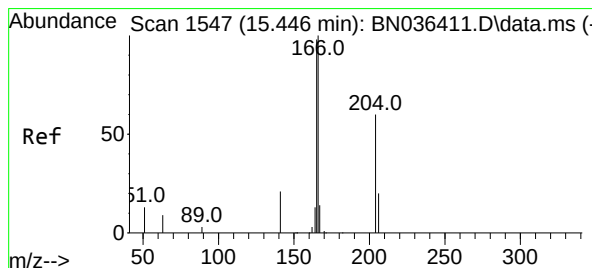
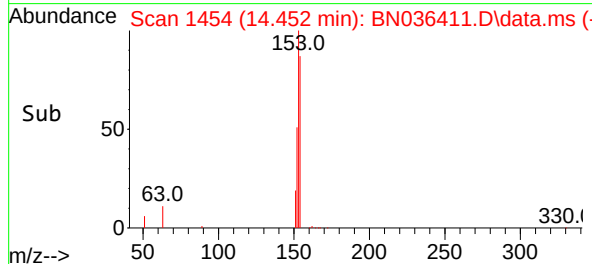
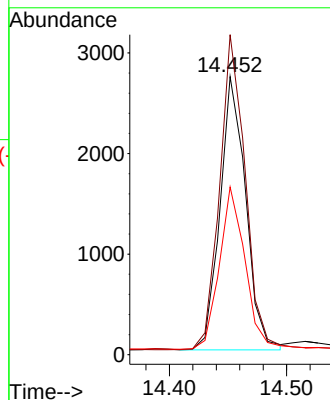
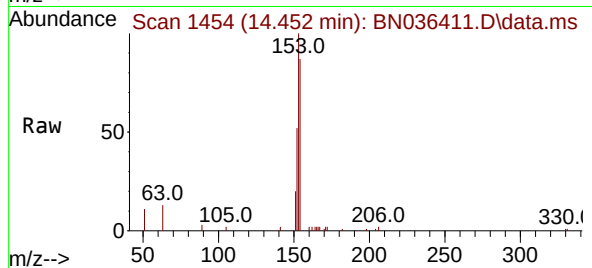




#17
Acenaphthene
Concen: 0.362 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

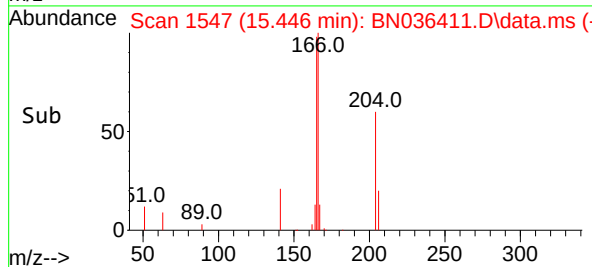
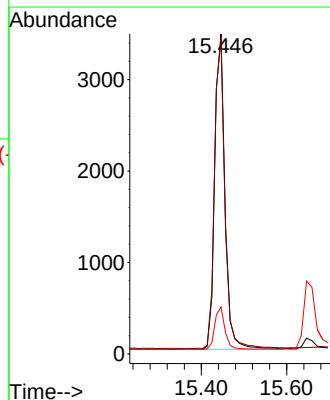
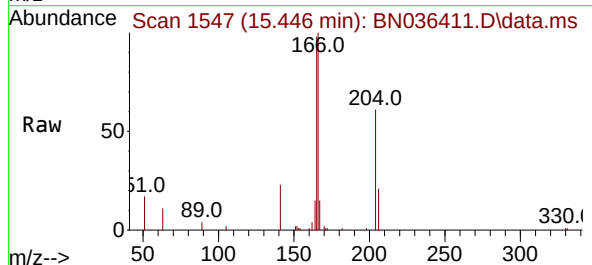
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

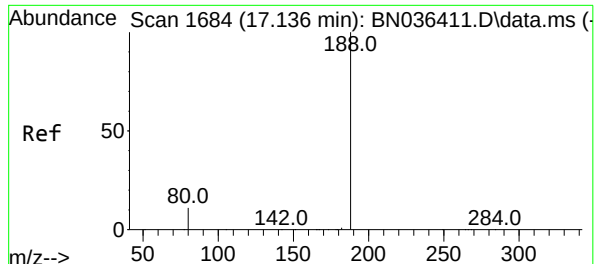
Tgt Ion	154	153	152
Resp:	4132		
Ion Ratio	100	116.6	61.0
Lower		93.3	48.8
Upper		139.9	73.2



#18
Fluorene
Concen: 0.407 ng
RT: 15.446 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion	166	165	167
Resp:	5991		
Ion Ratio	100	100.0	13.0
Lower		79.5	10.4
Upper		119.3	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

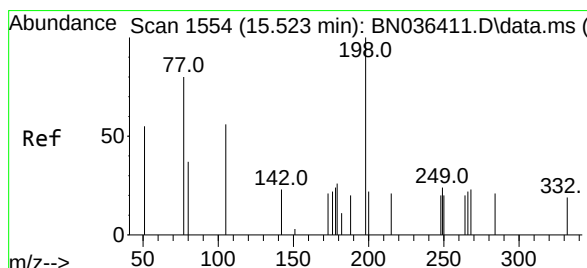
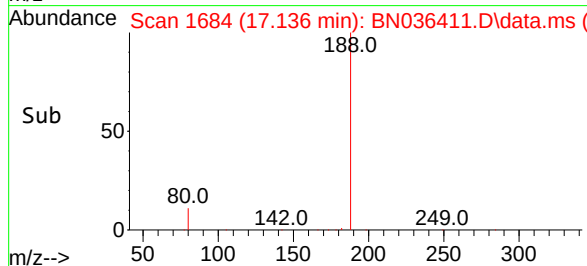
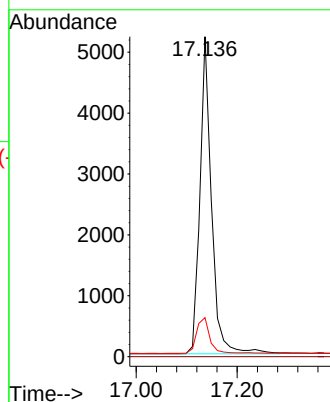
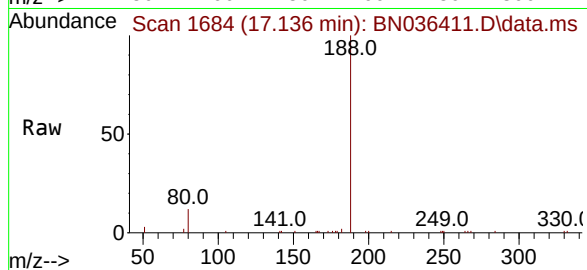
Tgt Ion:188 Resp: 8328

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: 0.307 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

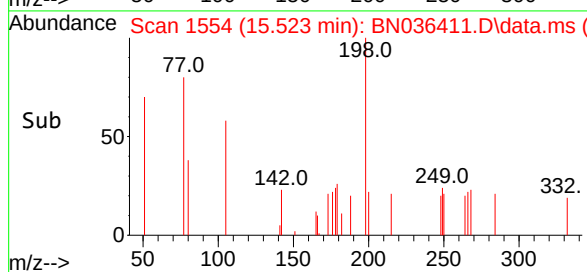
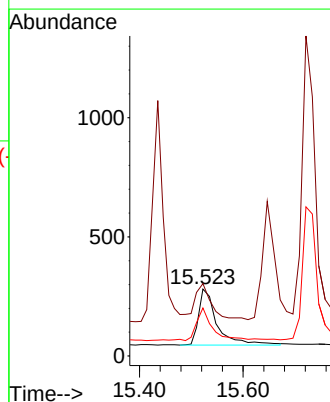
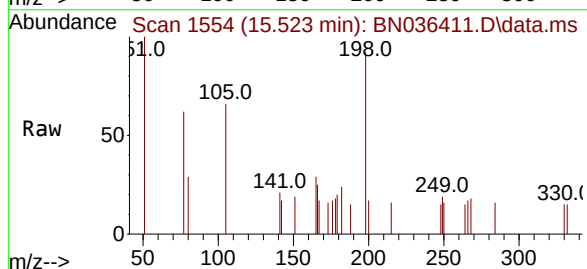
Tgt Ion:198 Resp: 572

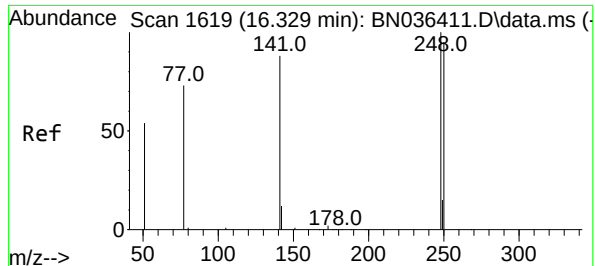
Ion Ratio Lower Upper

198 100

51 108.2 86.6 129.8

105 71.9 57.5 86.3

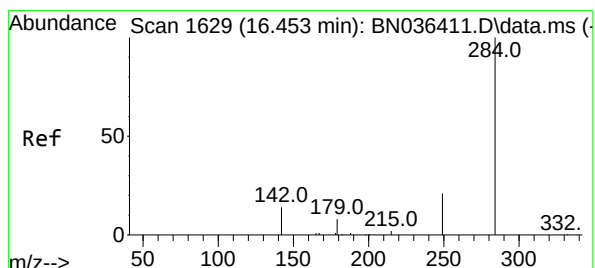
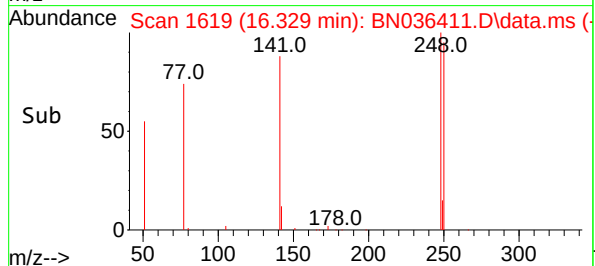
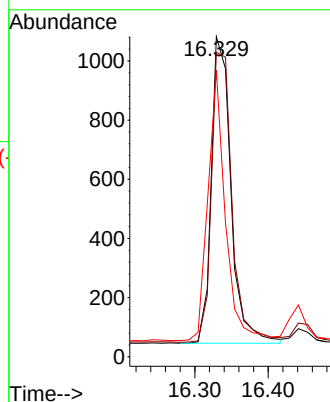
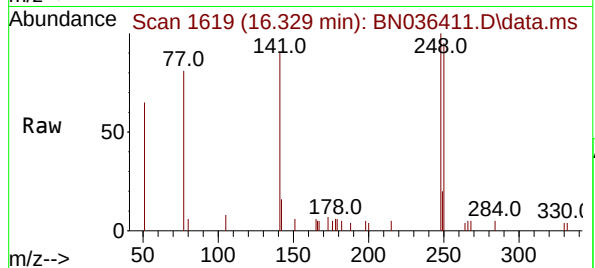




#21
4-Bromophenyl-phenylether
Concen: 0.337 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

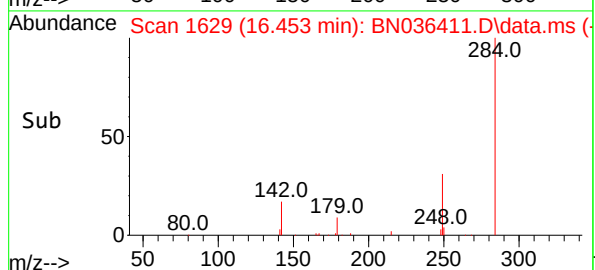
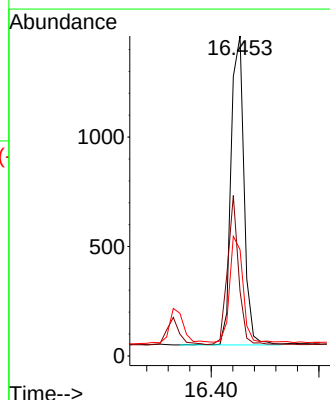
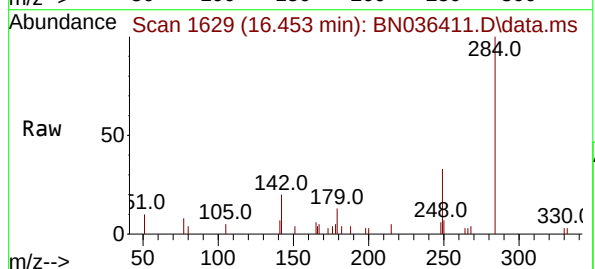
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

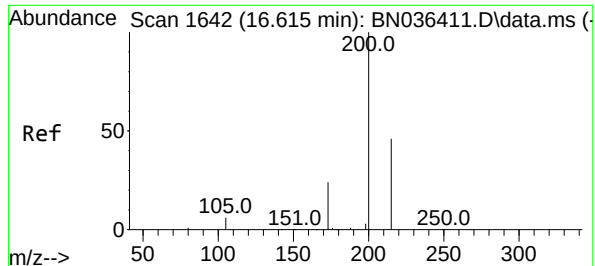
Tgt Ion:248 Resp: 1920
Ion Ratio Lower Upper
248 100
250 95.1 76.1 114.1
141 89.6 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.318 ng
RT: 16.453 min Scan# 1629
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:284 Resp: 2369
Ion Ratio Lower Upper
284 100
142 41.7 33.4 50.0
249 35.4 28.6 43.0





#23

Atrazine

Concen: 0.372 ng

RT: 16.615 min Scan# 1642

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

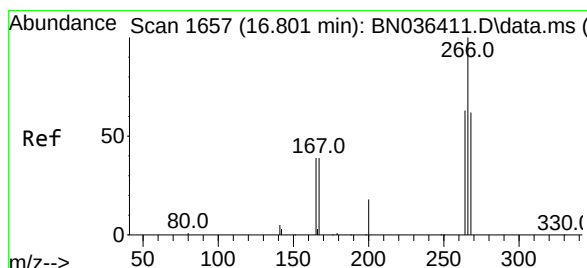
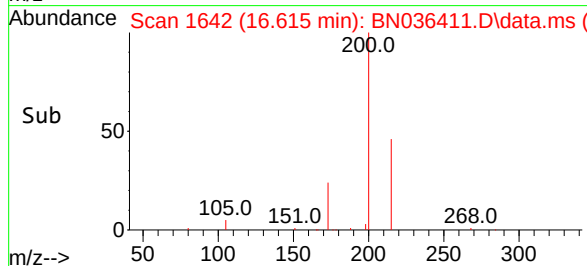
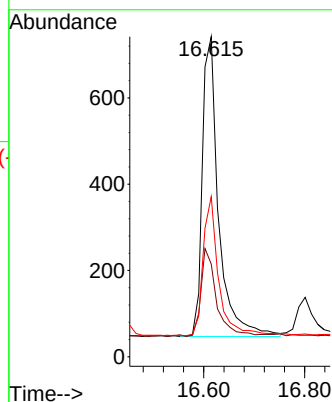
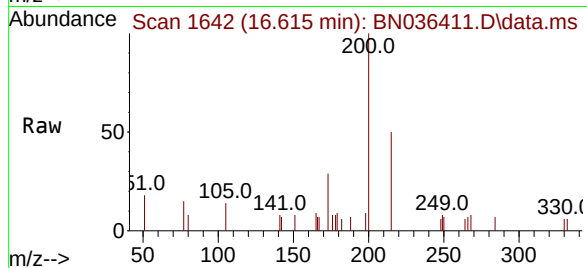
Tgt Ion:200 Resp: 1560

Ion Ratio Lower Upper

200 100

173 29.0 23.2 34.8

215 50.0 40.0 60.0



#24

Pentachlorophenol

Concen: 0.313 ng

RT: 16.801 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

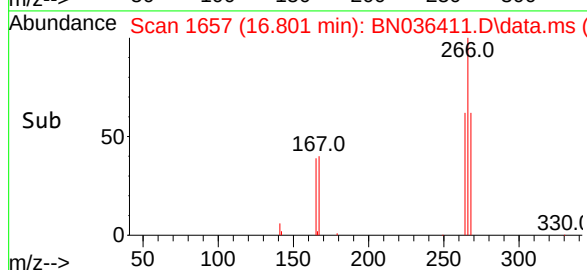
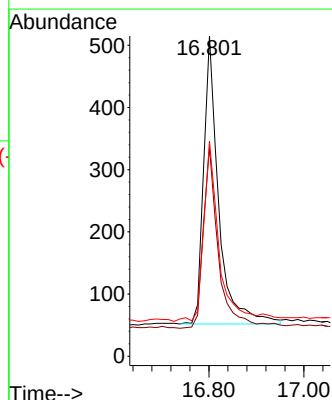
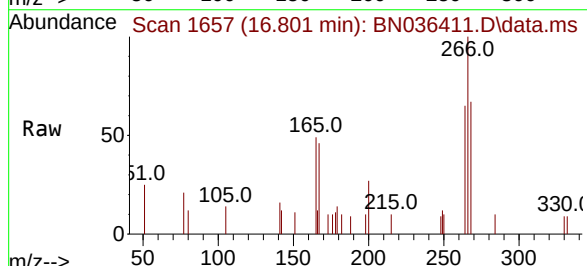
Tgt Ion:266 Resp: 1018

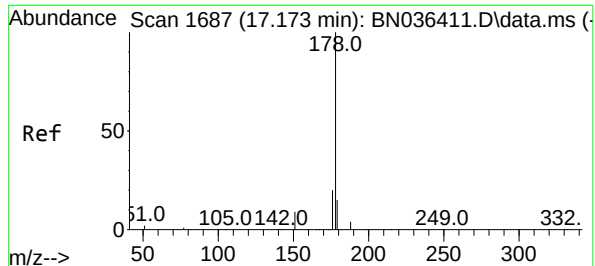
Ion Ratio Lower Upper

266 100

264 64.0 50.6 76.0

268 65.1 51.9 77.9





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.173 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

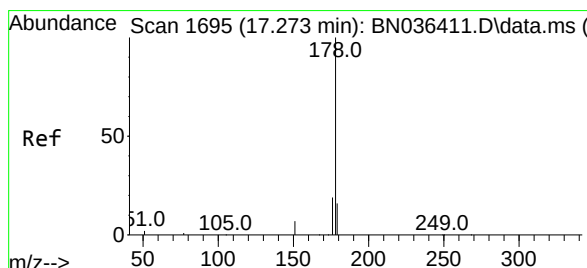
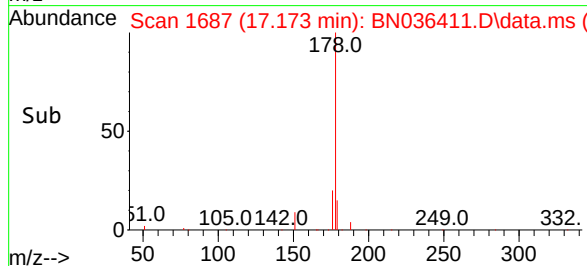
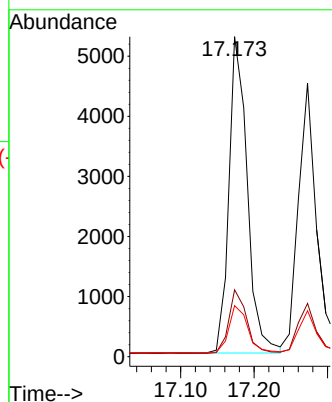
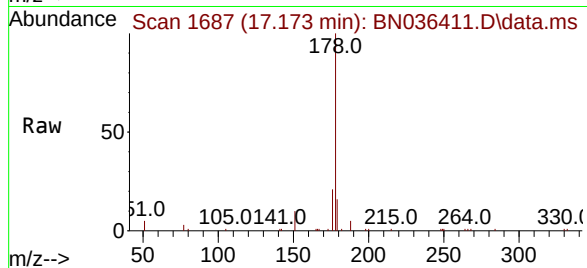
Tgt Ion:178 Resp: 9119

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.5 12.4 18.6



#26

Anthracene

Concen: 0.363 ng

RT: 17.273 min Scan# 1695

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

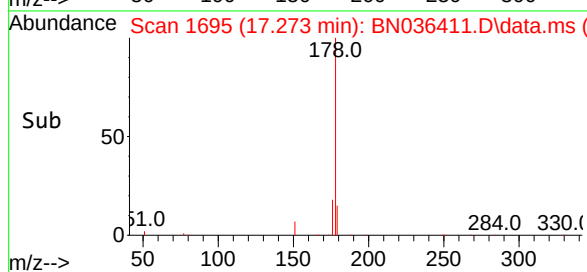
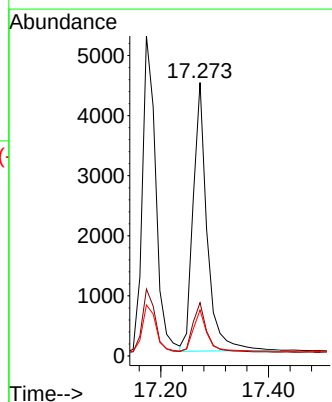
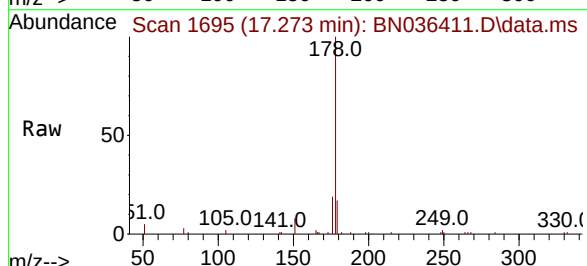
Tgt Ion:178 Resp: 8056

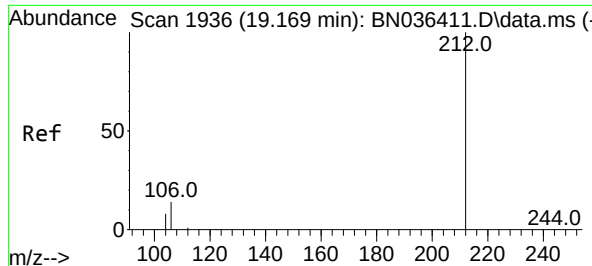
Ion Ratio Lower Upper

178 100

176 18.7 14.9 22.3

179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

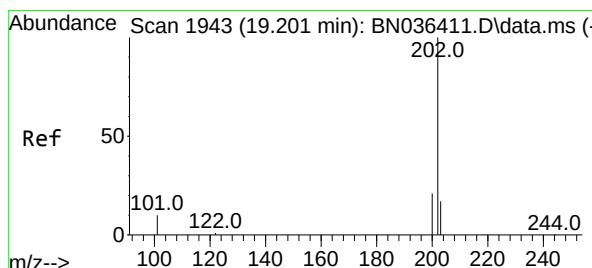
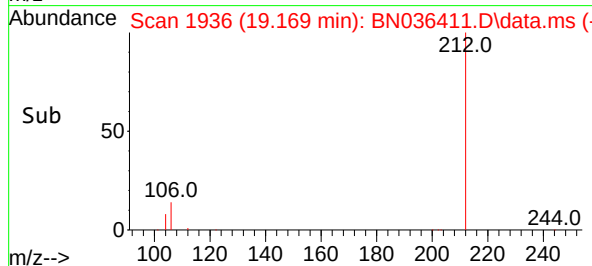
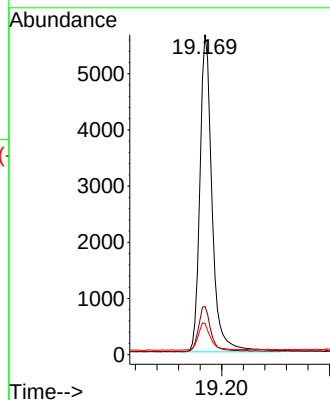
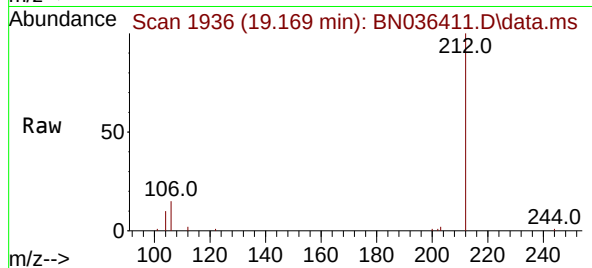
Tgt Ion:212 Resp: 8851

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.9 7.1 10.7



#28

Fluoranthene

Concen: 0.389 ng

RT: 19.201 min Scan# 1943

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

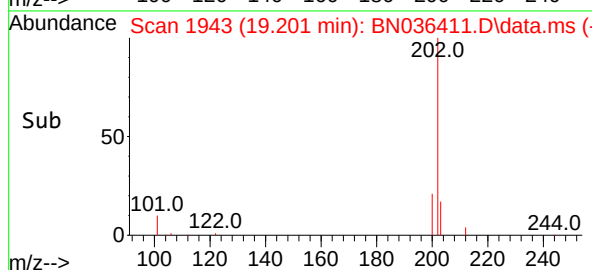
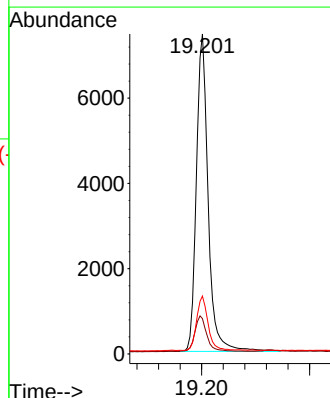
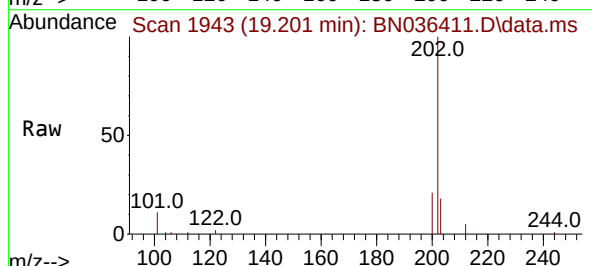
Tgt Ion:202 Resp: 11264

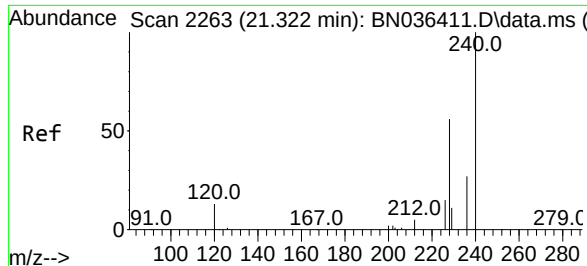
Ion Ratio Lower Upper

202 100

101 11.5 9.2 13.8

203 16.7 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

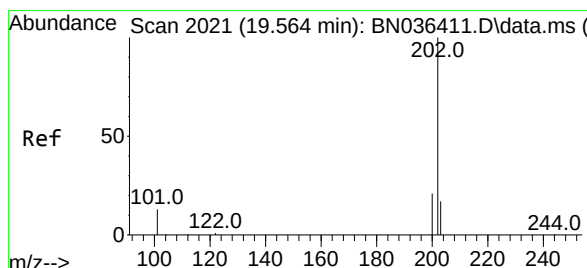
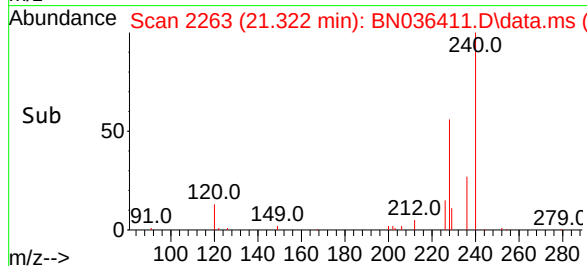
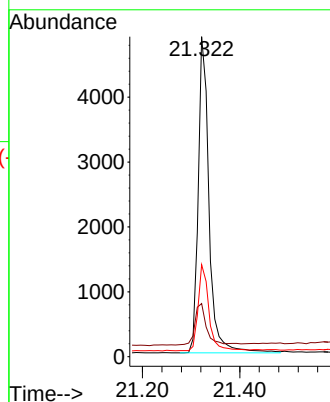
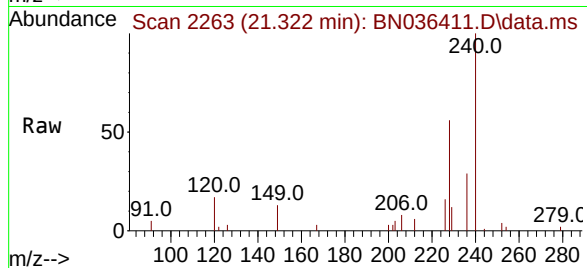
Tgt Ion:240 Resp: 7484

Ion Ratio Lower Upper

240 100

120 16.6 13.3 19.9

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.384 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

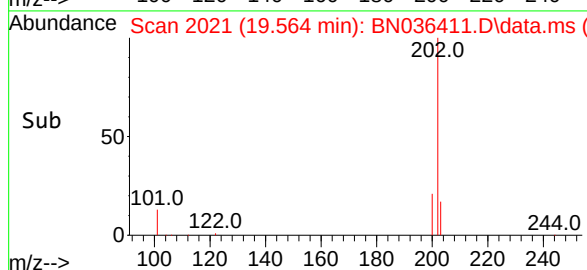
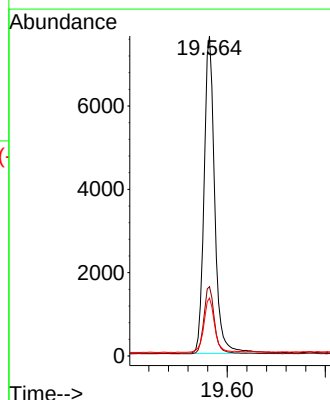
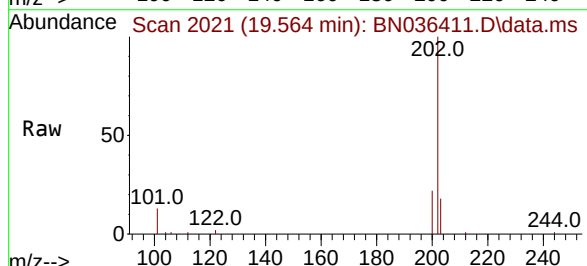
Tgt Ion:202 Resp: 11479

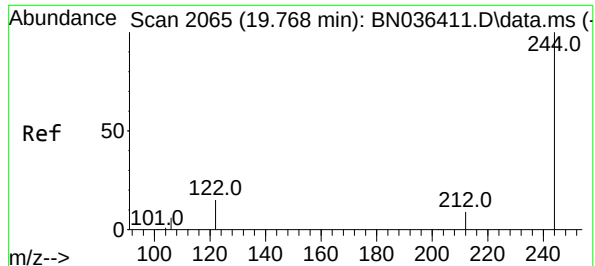
Ion Ratio Lower Upper

202 100

200 21.1 16.9 25.3

203 17.4 13.9 20.9

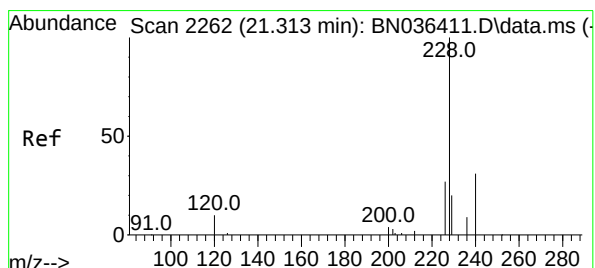
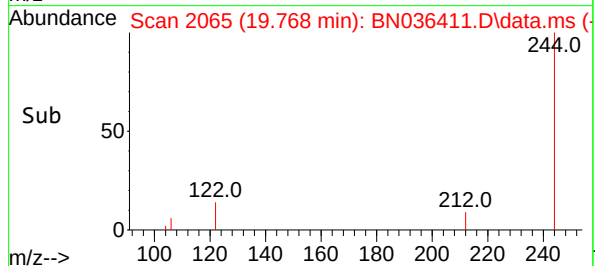
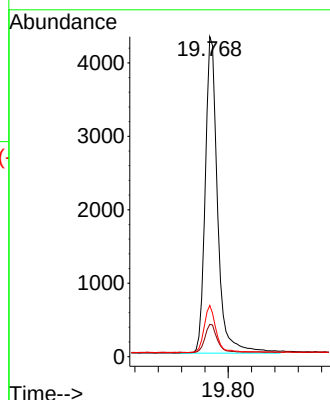
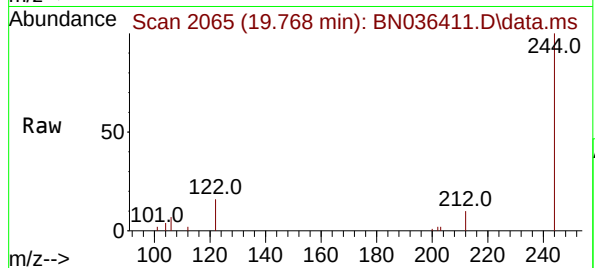




#31
Terphenyl-d14
Concen: 0.412 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

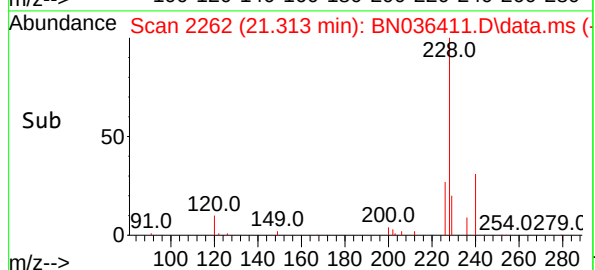
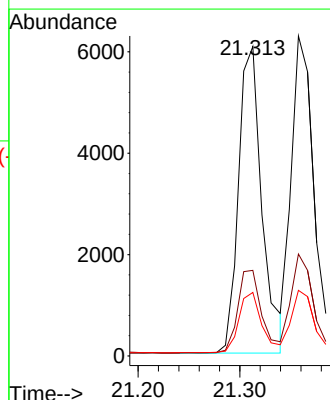
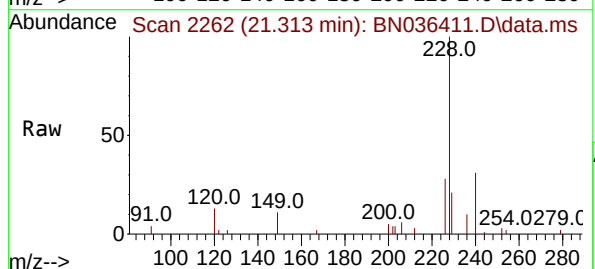
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

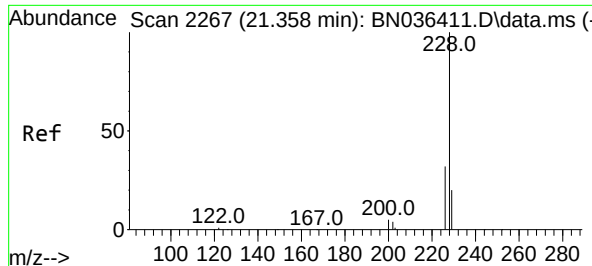
Tgt Ion:244 Resp: 6378
Ion Ratio Lower Upper
244 100
212 10.1 8.1 12.1
122 16.0 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.313 min Scan# 2262
Delta R.T. 0.000 min
Lab File: BN036411.D
Acq: 10 Feb 2025 13:36

Tgt Ion:228 Resp: 9677
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.2
229 20.6 16.5 24.7





#33

Chrysene

Concen: 0.373 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

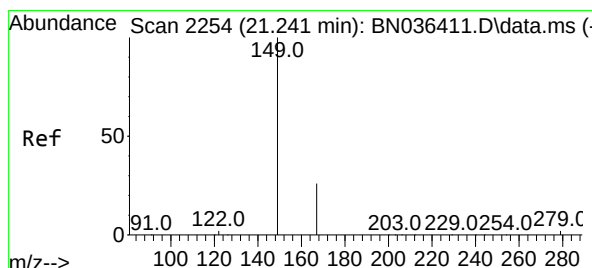
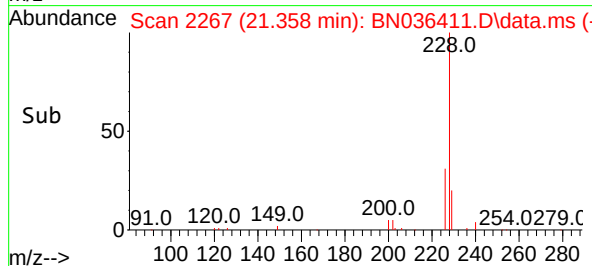
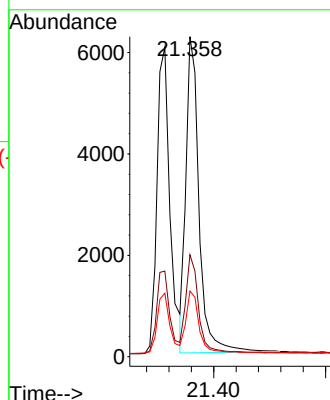
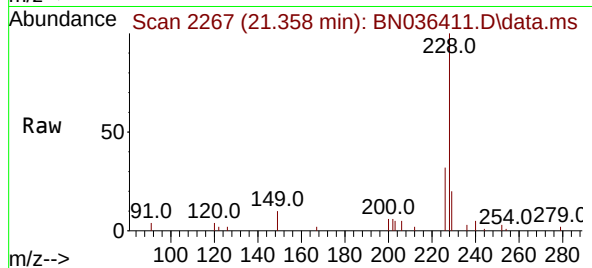
Tgt Ion:228 Resp: 10178

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.392 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

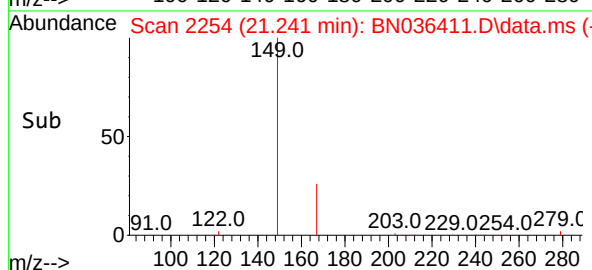
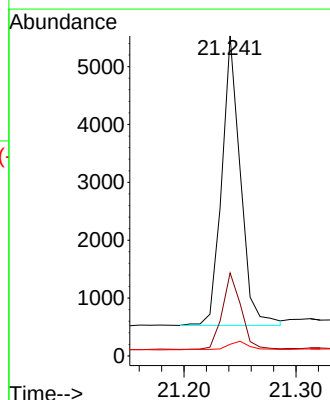
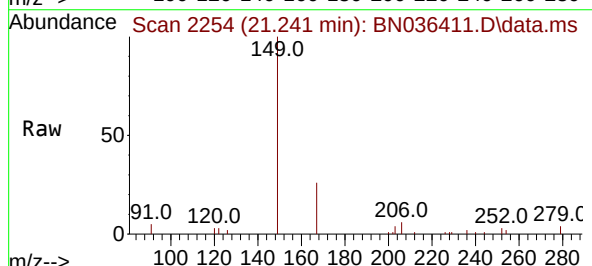
Tgt Ion:149 Resp: 5815

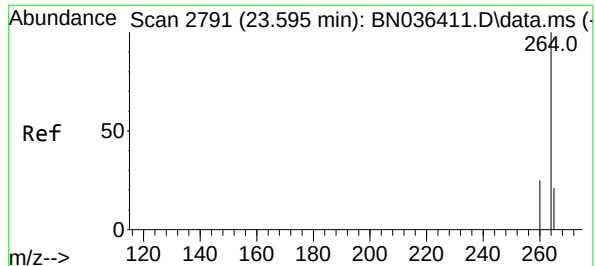
Ion Ratio Lower Upper

149 100

167 26.5 21.2 31.8

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 2791

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

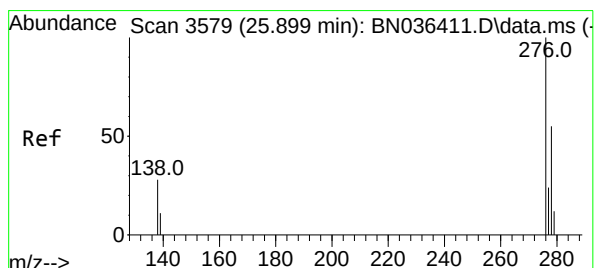
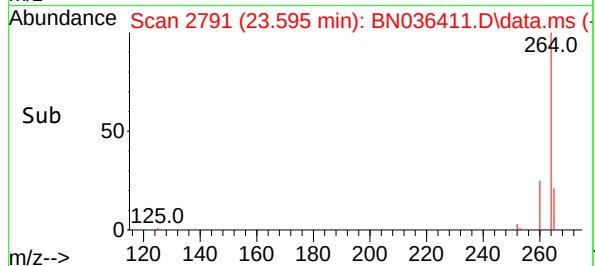
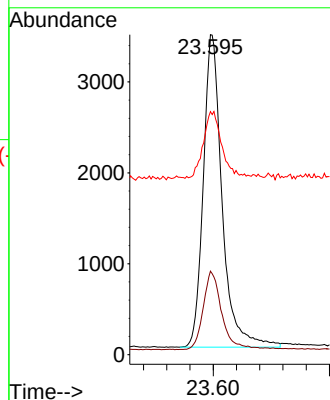
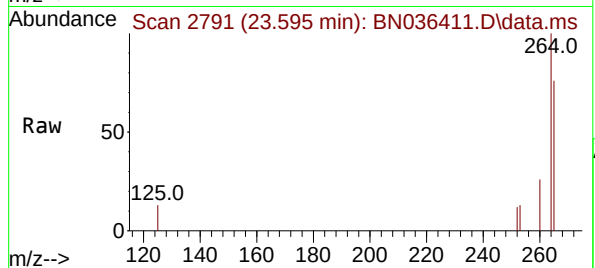
Tgt Ion:264 Resp: 7735

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 75.9 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.351 ng

RT: 25.899 min Scan# 3579

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

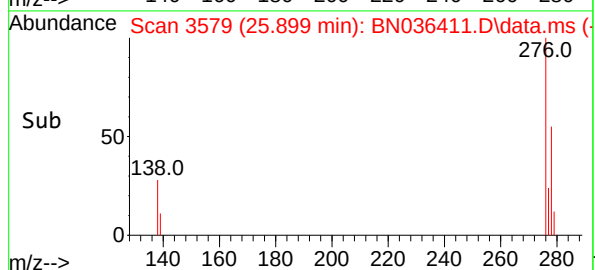
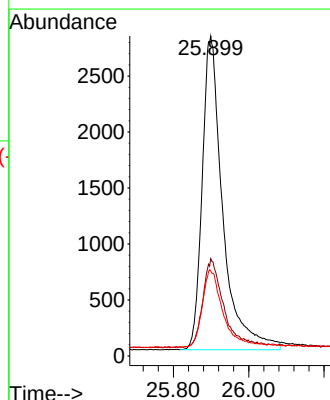
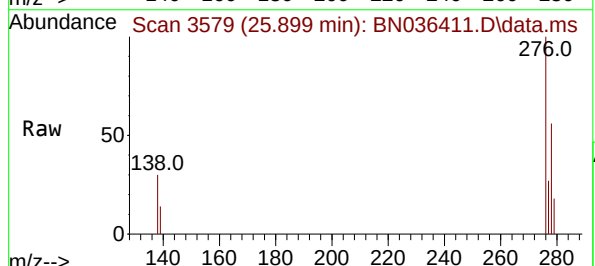
Tgt Ion:276 Resp: 10661

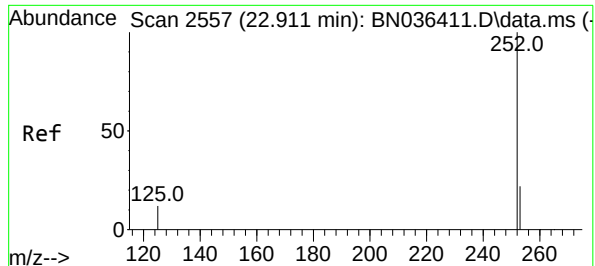
Ion Ratio Lower Upper

276 100

138 27.8 22.2 33.2

277 24.8 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.911 min Scan# 2557

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

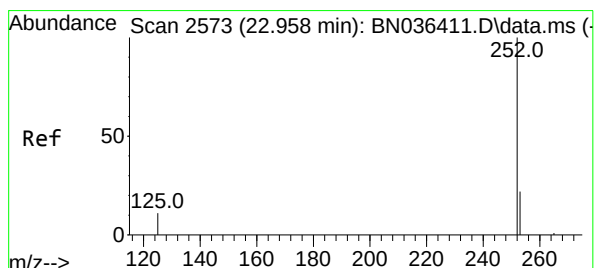
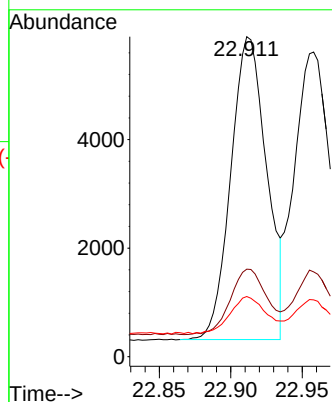
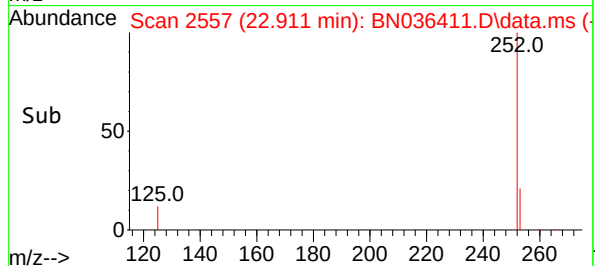
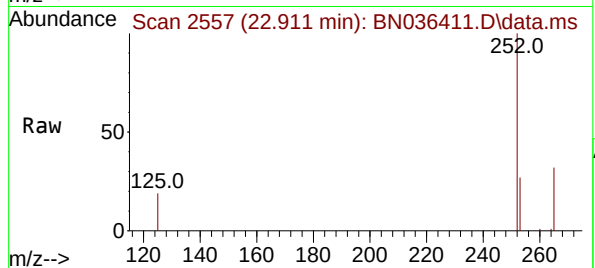
Tgt Ion:252 Resp: 9743

Ion Ratio Lower Upper

252 100

253 27.4 21.9 32.9

125 18.8 15.0 22.6



#38

Benzo(k)fluoranthene

Concen: 0.377 ng

RT: 22.958 min Scan# 2573

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

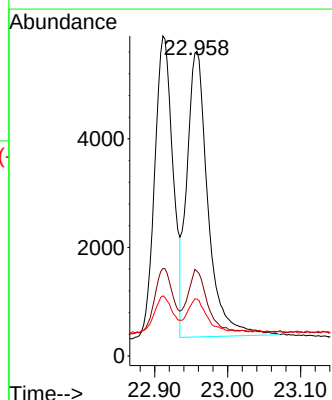
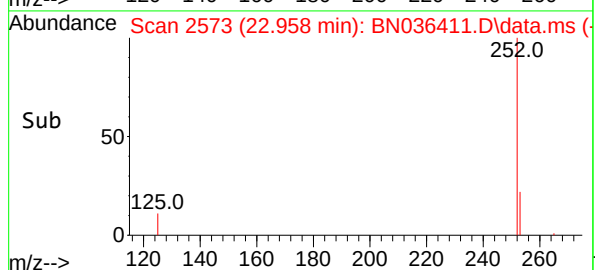
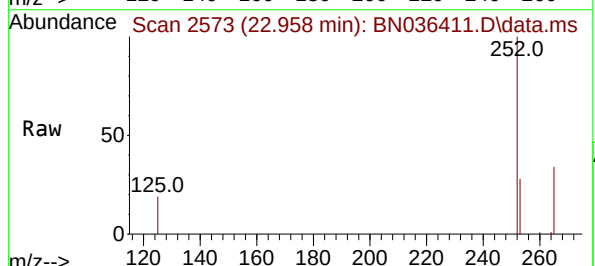
Tgt Ion:252 Resp: 10543

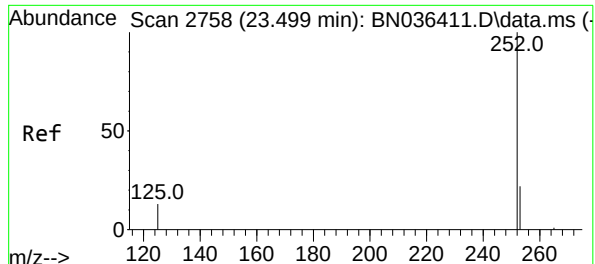
Ion Ratio Lower Upper

252 100

253 27.8 22.2 33.4

125 18.7 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.362 ng

RT: 23.499 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

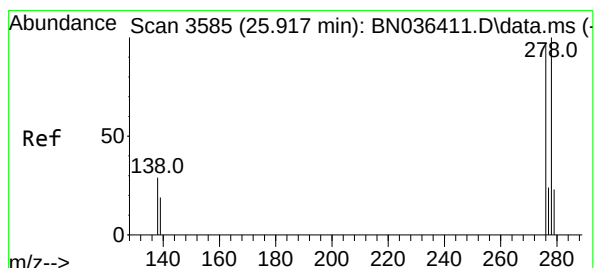
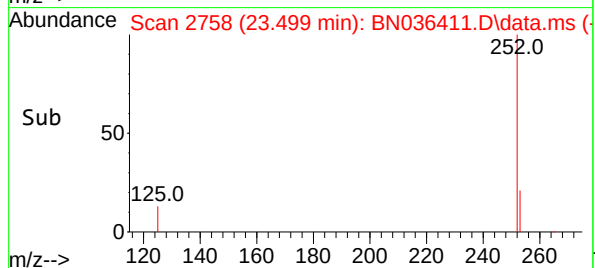
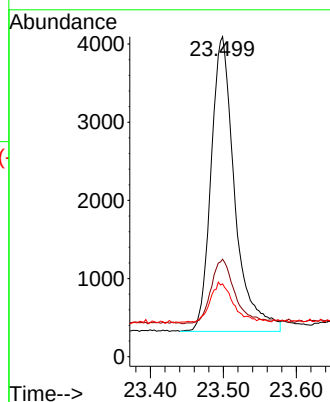
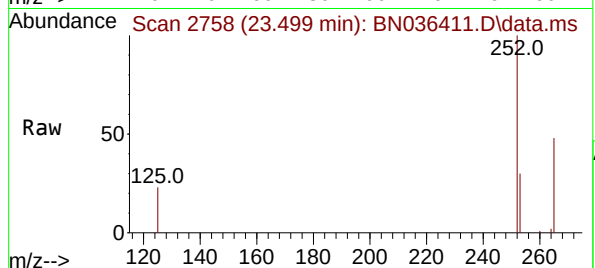
Tgt Ion:252 Resp: 8521

Ion Ratio Lower Upper

252 100

253 30.5 24.4 36.6

125 22.7 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.344 ng

RT: 25.917 min Scan# 3585

Delta R.T. 0.000 min

Lab File: BN036411.D

Acq: 10 Feb 2025 13:36

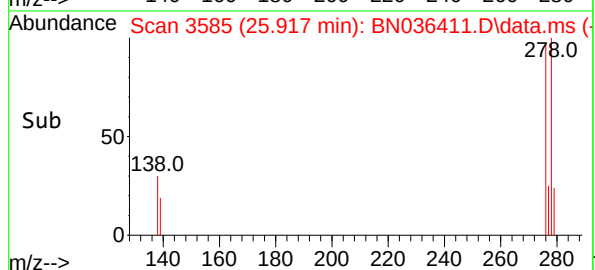
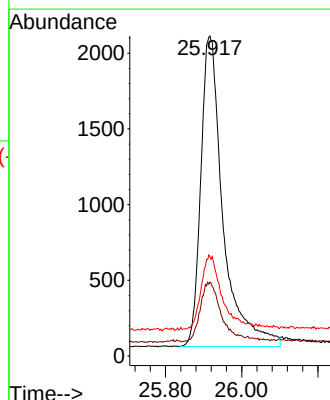
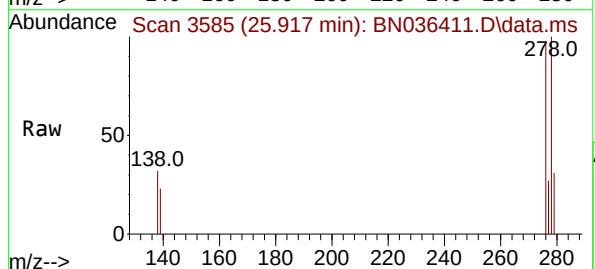
Tgt Ion:278 Resp: 8314

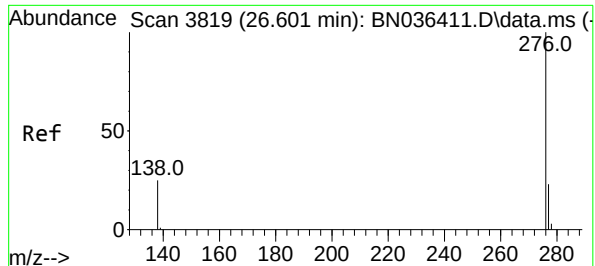
Ion Ratio Lower Upper

278 100

139 23.1 18.5 27.7

279 31.0 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.601 min Scan# 3819

Delta R.T. 0.000 min

Lab File: BN036411.D

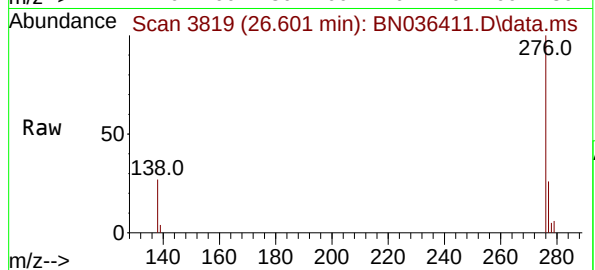
Acq: 10 Feb 2025 13:36

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



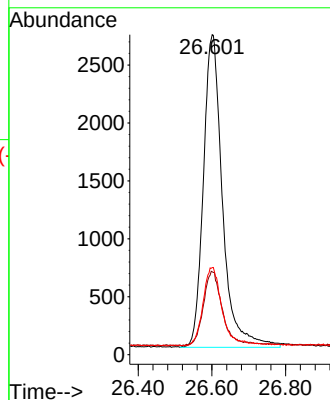
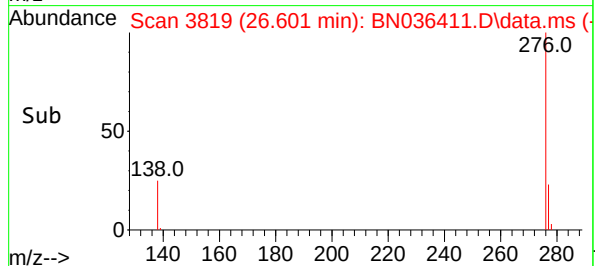
Tgt Ion:276 Resp: 9701

Ion Ratio Lower Upper

276 100

277 25.9 20.7 31.1

138 27.2 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036412.D
 Acq On : 10 Feb 2025 14:12
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Feb 11 00:36:15 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

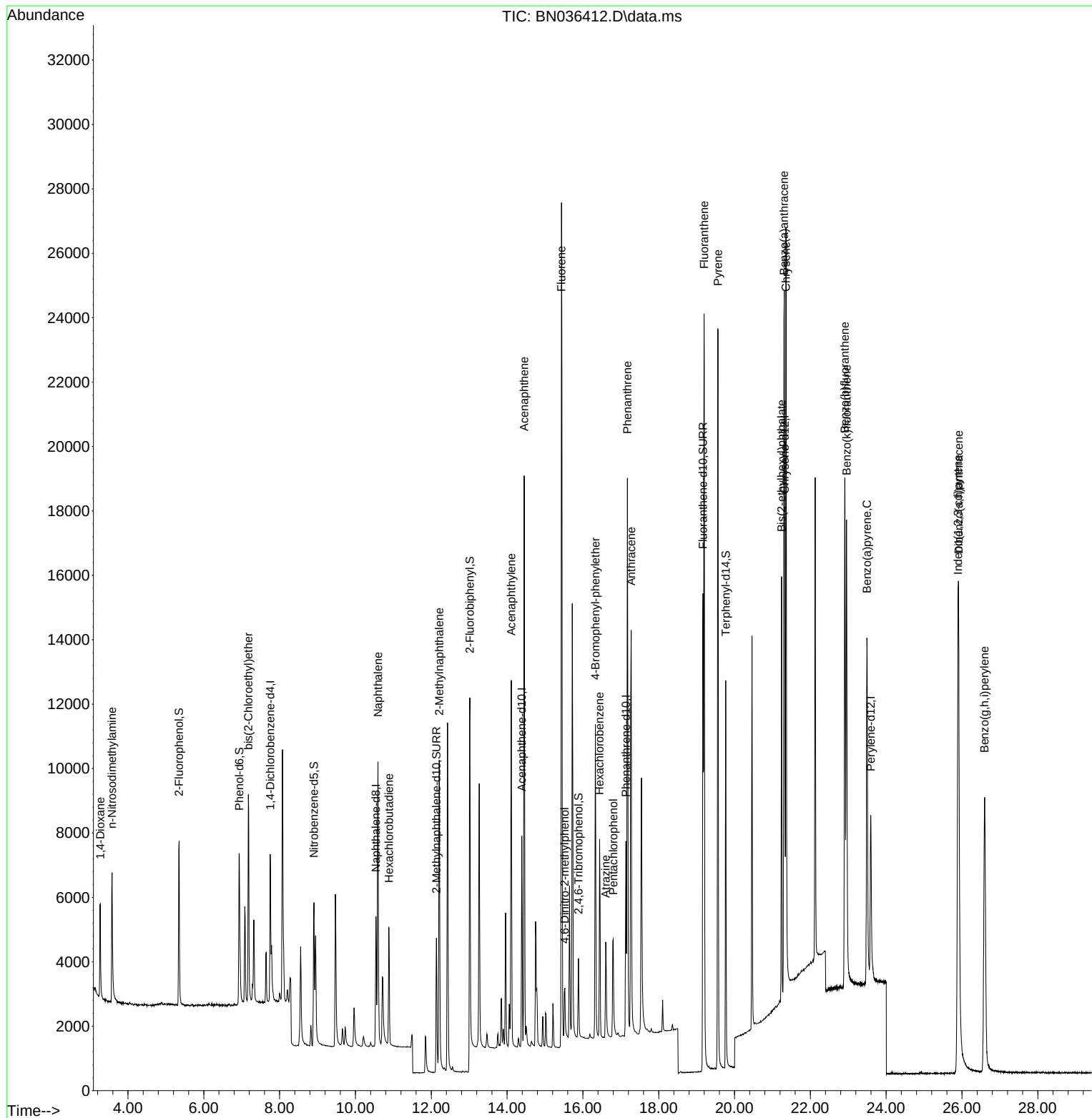
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2190	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5510	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3611	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8139	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7521	0.400	ng	0.00
35) Perylene-d12	23.595	264	7758	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	4030	0.723	ng	0.00
5) Phenol-d6	6.937	99	4653	0.715	ng	0.00
8) Nitrobenzene-d5	8.907	82	4082	0.795	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	6480	0.860	ng	0.00
14) 2,4,6-Tribromophenol	15.883	330	1331	0.598	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	10765	0.699	ng	0.00
27) Fluoranthene-d10	19.169	212	17242	0.823	ng	0.00
31) Terphenyl-d14	19.768	244	12467	0.800	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	1812	0.748	ng	99
3) n-Nitrosodimethylamine	3.579	42	3171	0.729	ng	# 98
6) bis(2-Chloroethyl)ether	7.176	93	4947	0.915	ng	97
9) Naphthalene	10.594	128	11992	0.762	ng	98
10) Hexachlorobutadiene	10.883	225	2996	0.608	ng	# 100
12) 2-Methylnaphthalene	12.212	142	7947	0.804	ng	97
16) Acenaphthylene	14.110	152	12153	0.727	ng	99
17) Acenaphthene	14.452	154	8143	0.712	ng	98
18) Fluorene	15.435	166	11752	0.798	ng	100
20) 4,6-Dinitro-2-methylph...	15.523	198	1199	0.658	ng	# 66
21) 4-Bromophenyl-phenylether	16.329	248	3776	0.677	ng	94
22) Hexachlorobenzene	16.441	284	4670	0.642	ng	96
23) Atrazine	16.602	200	3020	0.737	ng	94
24) Pentachlorophenol	16.801	266	1989	0.625	ng	99
25) Phenanthrene	17.173	178	18094	0.758	ng	99
26) Anthracene	17.273	178	15928	0.735	ng	99
28) Fluoranthene	19.197	202	22075	0.781	ng	99
30) Pyrene	19.564	202	22410	0.746	ng	99
32) Benzo(a)anthracene	21.304	228	18881	0.707	ng	98
33) Chrysene	21.358	228	21269	0.776	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	11207	0.752	ng	99
36) Indeno(1,2,3-cd)pyrene	25.893	276	21570	0.708	ng	98
37) Benzo(b)fluoranthene	22.908	252	20019	0.727	ng	# 93
38) Benzo(k)fluoranthene	22.955	252	20570	0.733	ng	# 93
39) Benzo(a)pyrene	23.493	252	17289	0.731	ng	# 91
40) Dibenzo(a,h)anthracene	25.911	278	16872	0.697	ng	93
41) Benzo(g,h,i)perylene	26.598	276	19078	0.718	ng	98

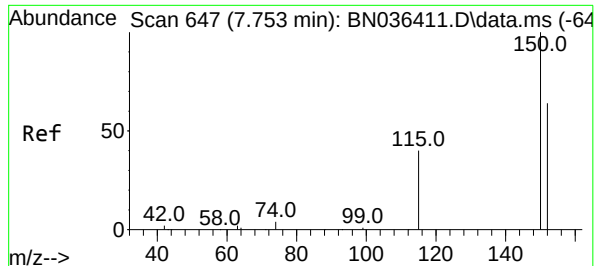
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036412.D
Acq On : 10 Feb 2025 14:12
Operator : RC/JU
Sample : SSTDIC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

Quant Time: Feb 11 00:36:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

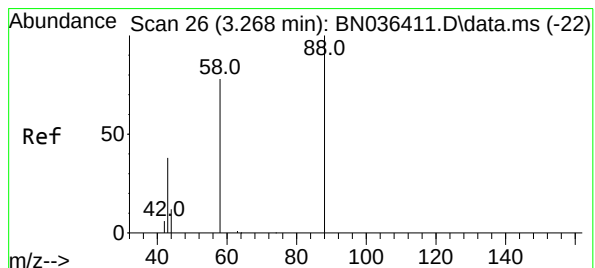
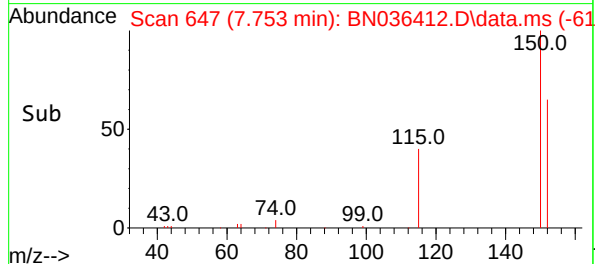
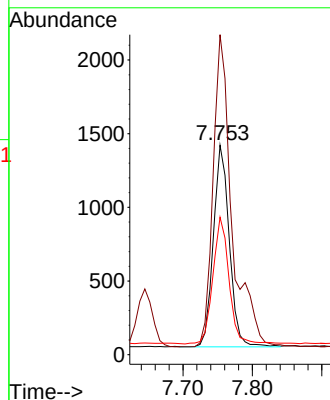
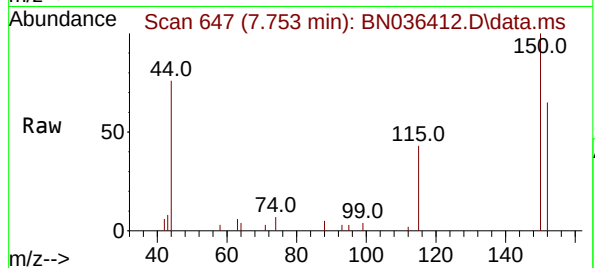




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

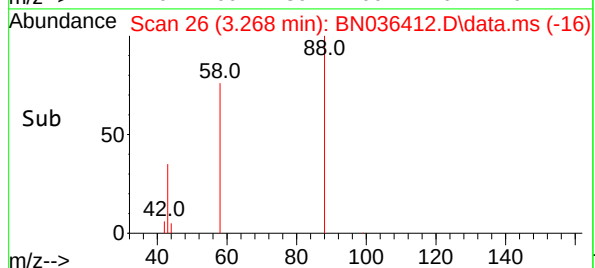
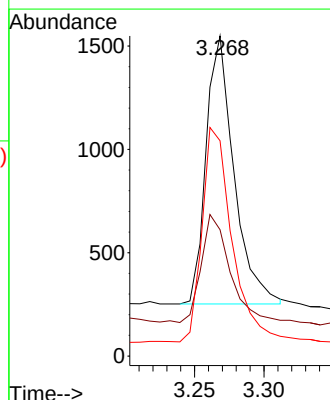
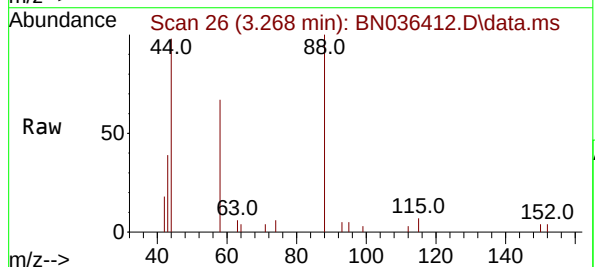
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

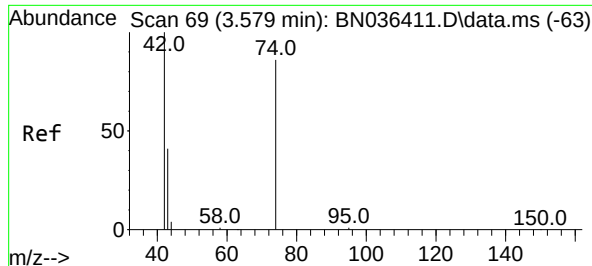
Tgt Ion:152 Resp: 2190
Ion Ratio Lower Upper
152 100
150 152.7 123.7 185.5
115 65.6 52.5 78.7



#2
1,4-Dioxane
Concen: 0.748 ng
RT: 3.268 min Scan# 26
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 88 Resp: 1812
Ion Ratio Lower Upper
88 100
43 41.0 33.7 50.5
58 86.3 68.9 103.3

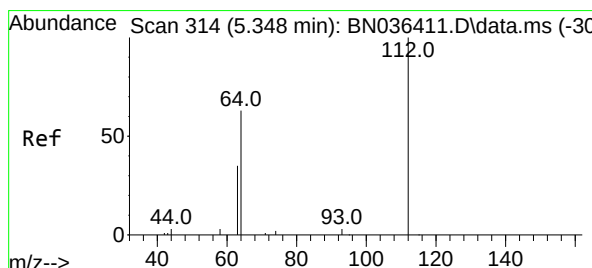
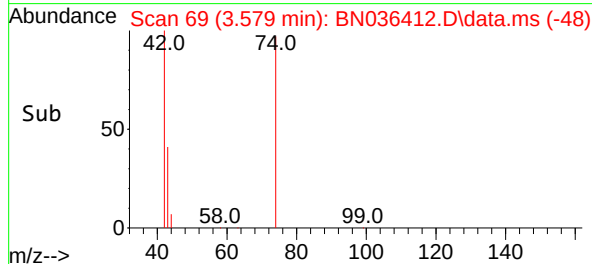
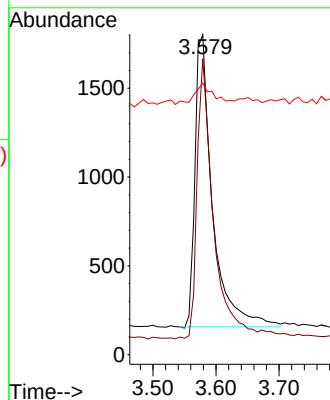
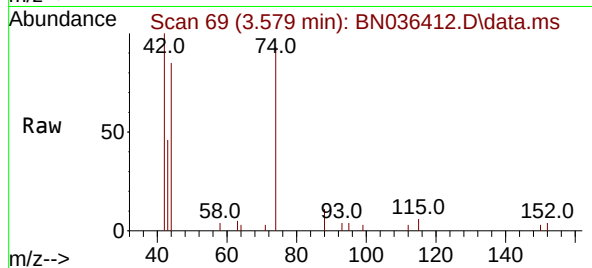




#3
n-Nitrosodimethylamine
Concen: 0.729 ng
RT: 3.579 min Scan# 69
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

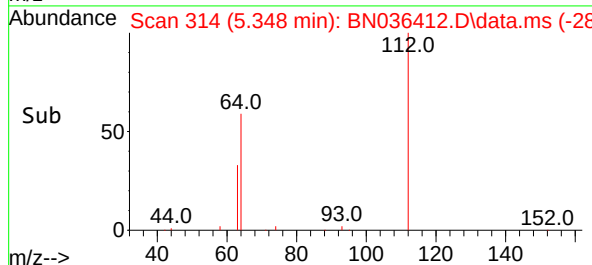
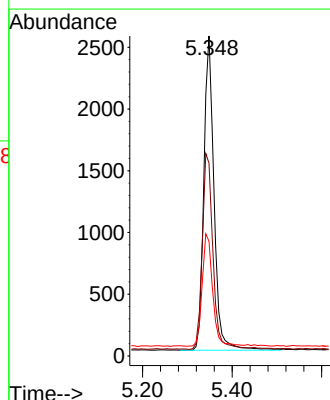
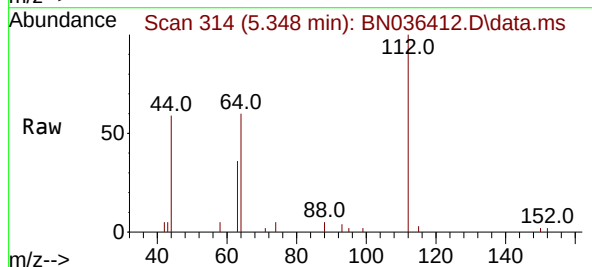
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

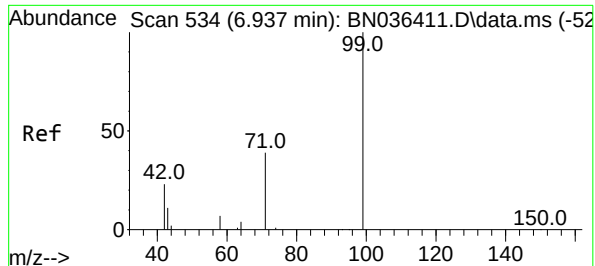
Tgt Ion: 42 Resp: 3171
Ion Ratio Lower Upper
42 100
74 91.4 71.8 107.6
44 7.2 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.723 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 112 Resp: 4030
Ion Ratio Lower Upper
112 100
64 65.3 53.4 80.0
63 36.6 30.3 45.5

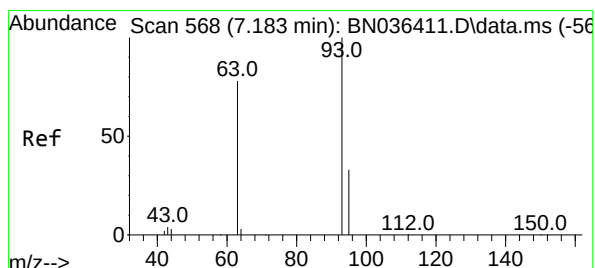
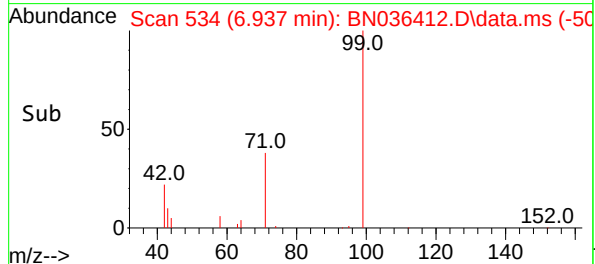
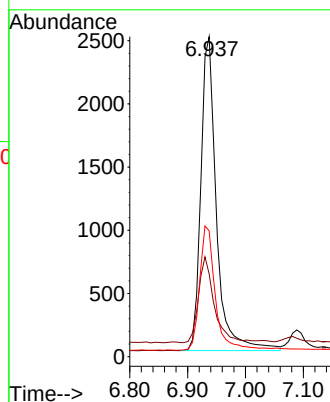
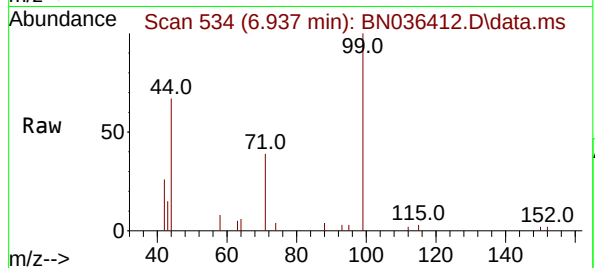




#5
Phenol-d6
Concen: 0.715 ng
RT: 6.937 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

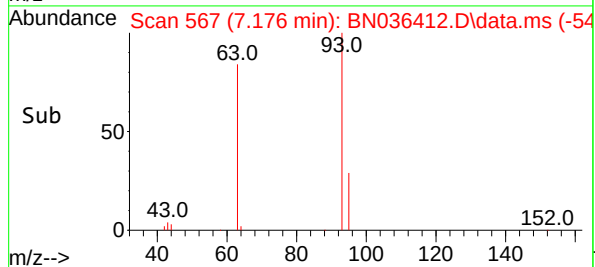
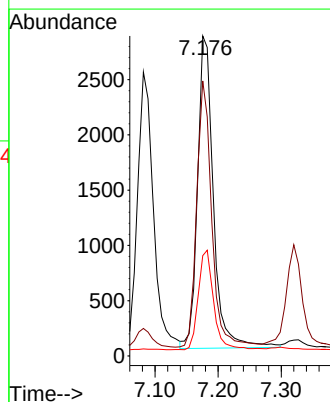
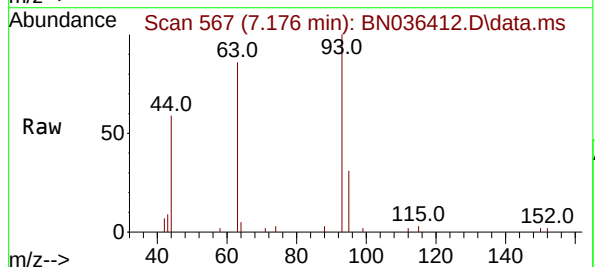
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

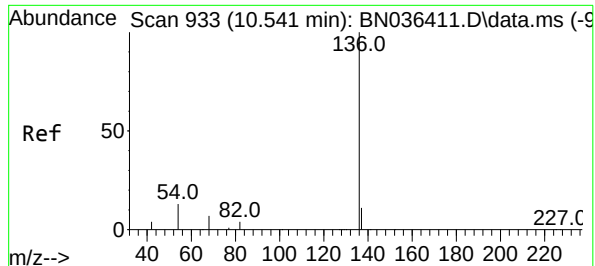
Tgt Ion: 99 Resp: 4653
Ion Ratio Lower Upper
99 100
42 27.6 21.7 32.5
71 40.0 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.915 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion: 93 Resp: 4947
Ion Ratio Lower Upper
93 100
63 80.8 66.3 99.5
95 31.0 26.2 39.4

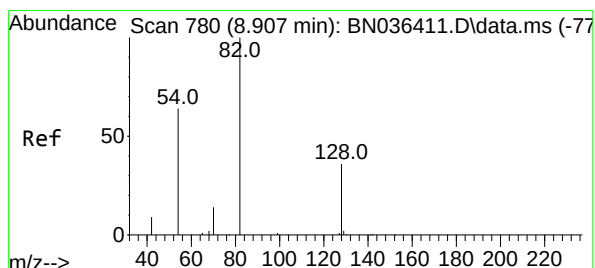
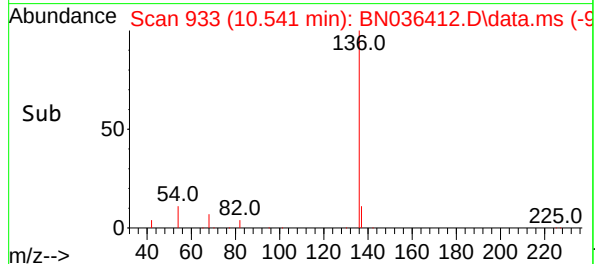
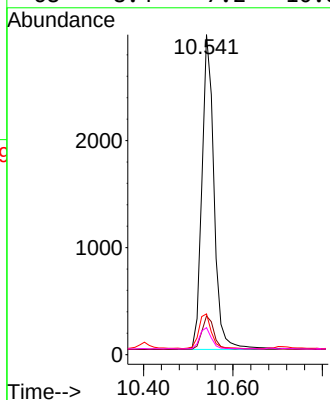
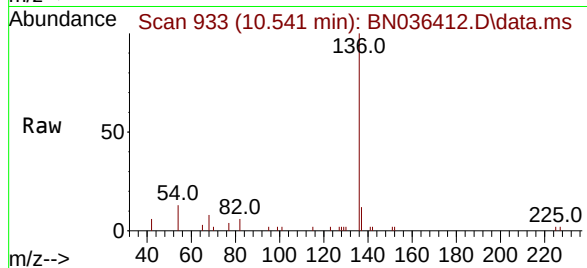




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

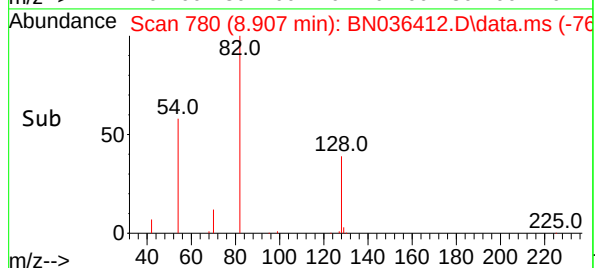
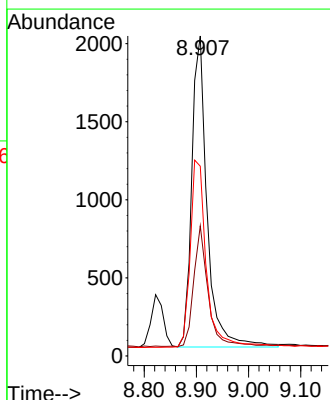
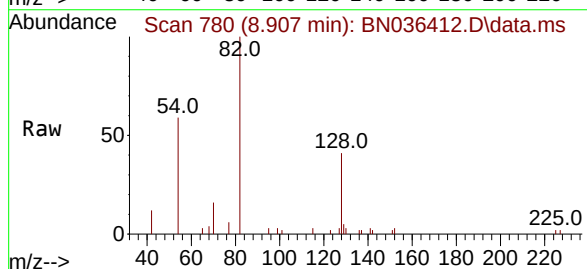
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

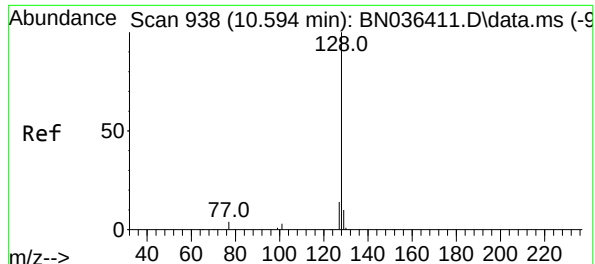
Tgt Ion:	136	Resp:	5510
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	12.7	11.8	17.6
68	8.4	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.795 ng
RT: 8.907 min Scan# 780
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:	82	Resp:	4082
Ion	Ratio	Lower	Upper
82	100		
128	40.7	31.9	47.9
54	59.3	53.1	79.7

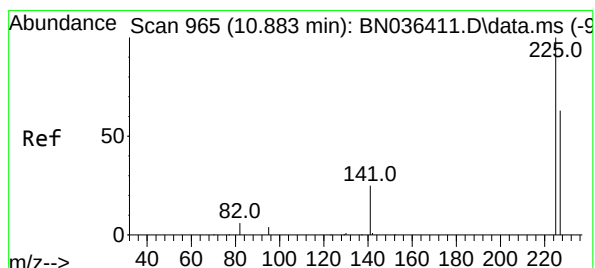
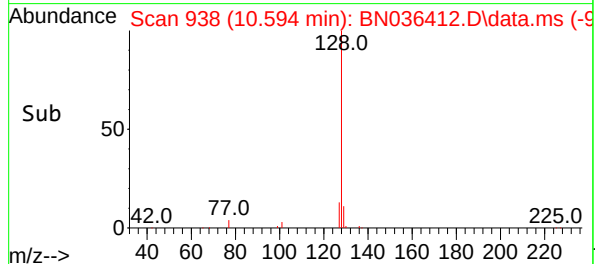
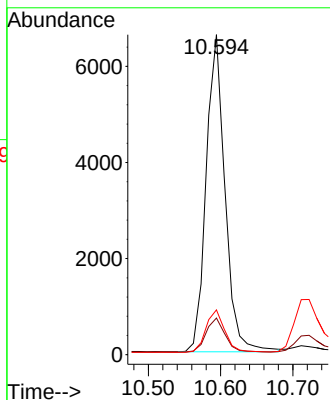
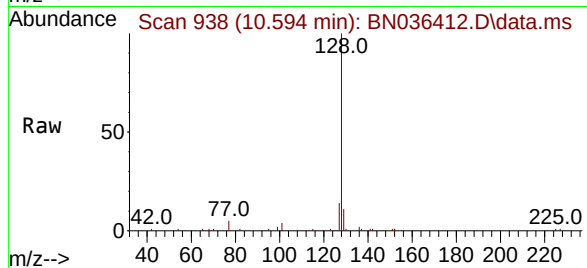




#9
Naphthalene
Concen: 0.762 ng
RT: 10.594 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

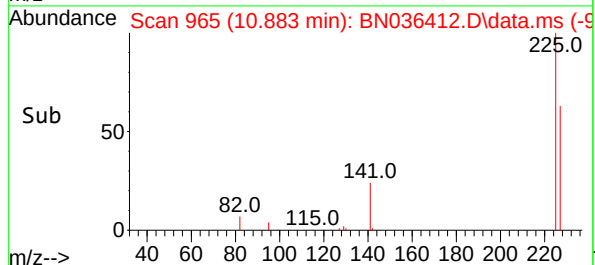
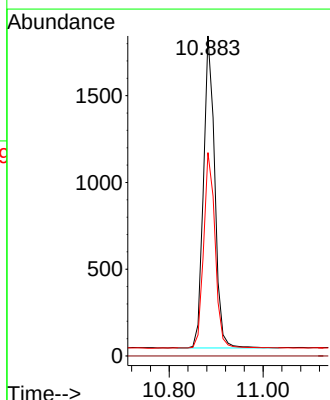
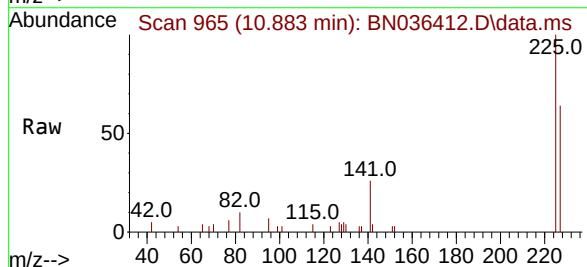
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

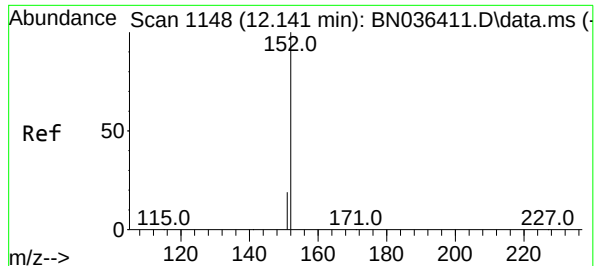
Tgt Ion:128 Resp: 11992
Ion Ratio Lower Upper
128 100
129 11.5 9.6 14.4
127 14.0 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.608 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:225 Resp: 2996
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.9 76.3

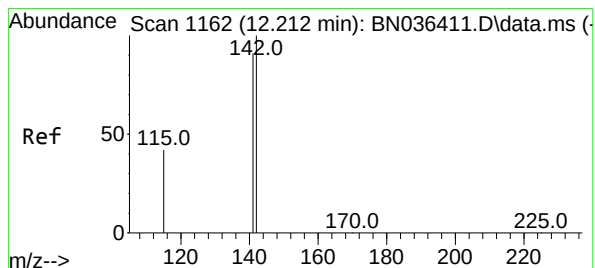
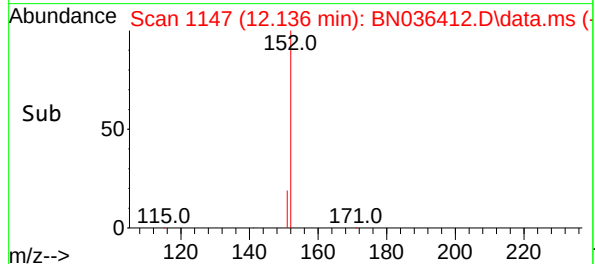
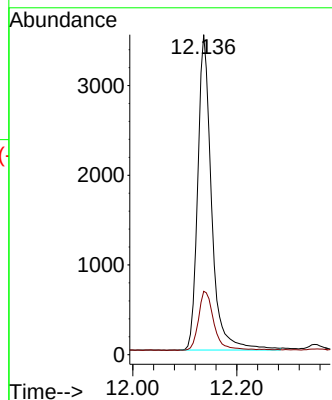
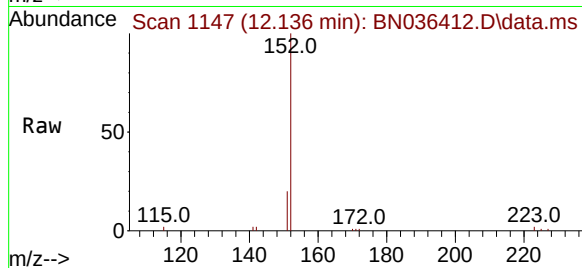




#11
2-Methylnaphthalene-d10
Concen: 0.860 ng
RT: 12.136 min Scan# 1148
Delta R.T. -0.005 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

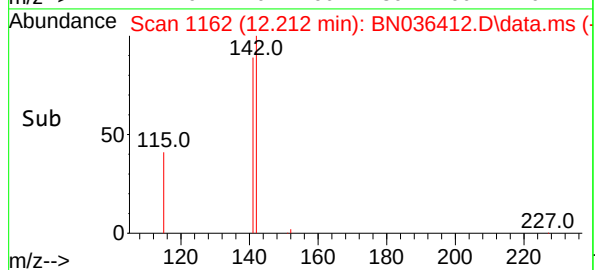
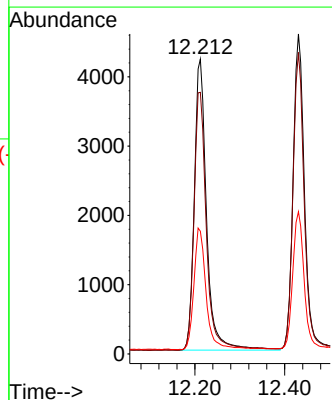
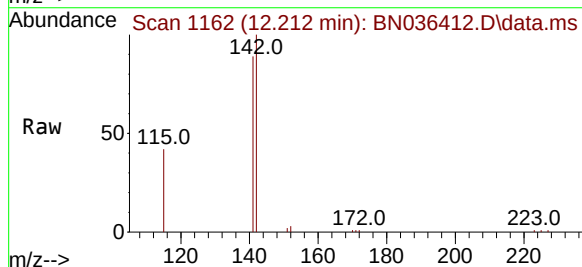
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

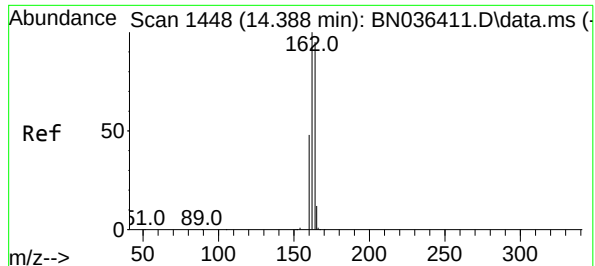
Tgt Ion:152 Resp: 6480
Ion Ratio Lower Upper
152 100
151 20.7 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.804 ng
RT: 12.212 min Scan# 1162
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:142 Resp: 7947
Ion Ratio Lower Upper
142 100
141 88.7 72.8 109.2
115 41.6 35.5 53.3

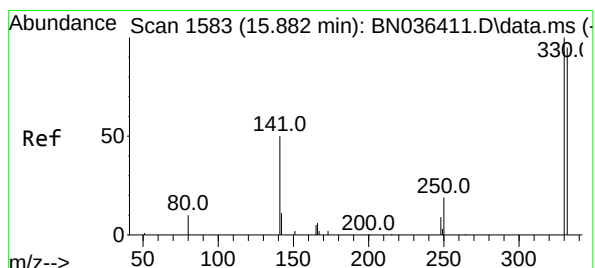
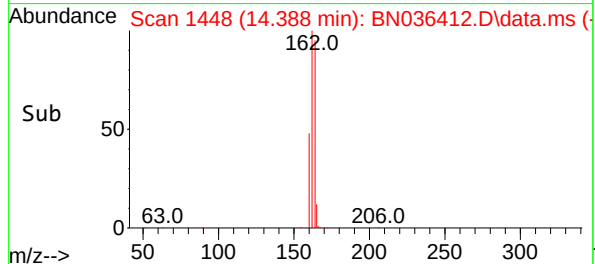
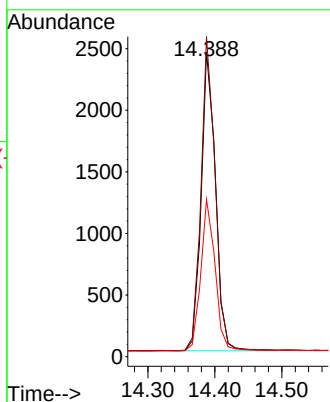
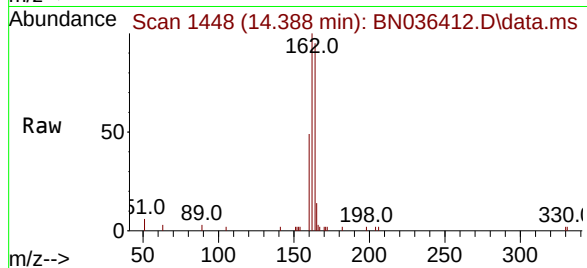




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

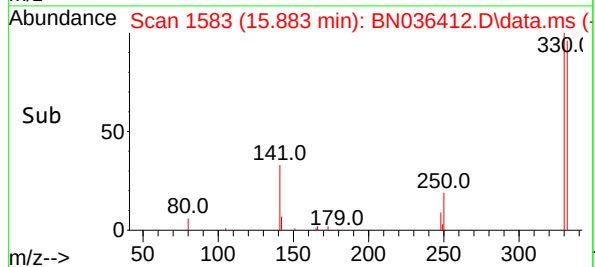
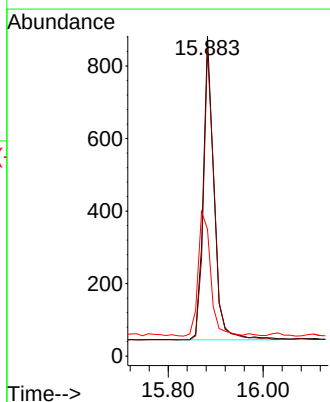
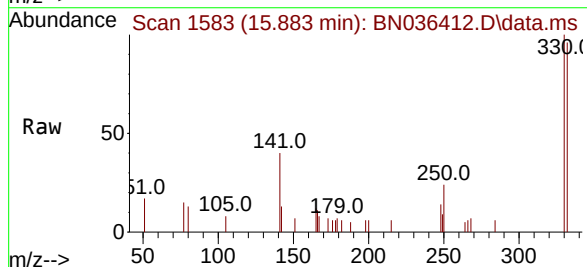
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

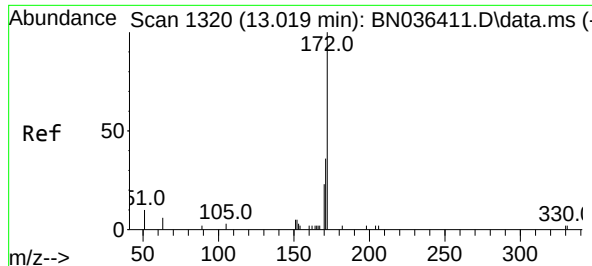
Tgt Ion:164 Resp: 3611
Ion Ratio Lower Upper
164 100
162 105.0 84.1 126.1
160 51.6 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.598 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:330 Resp: 1331
Ion Ratio Lower Upper
330 100
332 95.8 76.6 114.8
141 47.5 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.699 ng

RT: 13.019 min Scan# 1320

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

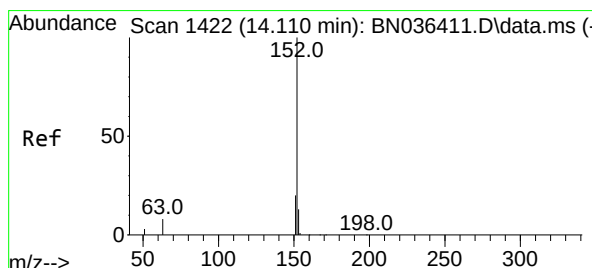
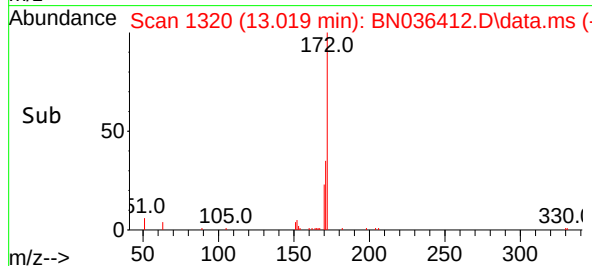
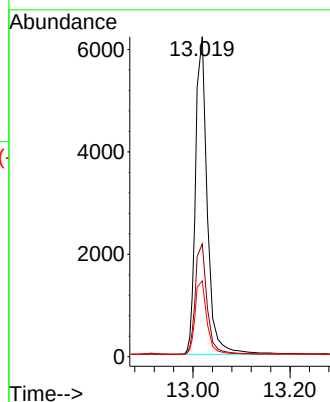
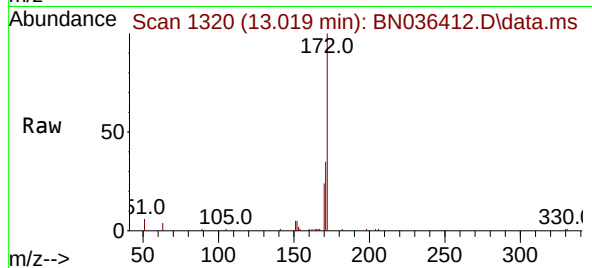
Tgt Ion:172 Resp: 10765

Ion Ratio Lower Upper

172 100

171 35.2 29.6 44.4

170 23.7 19.8 29.6



#16

Acenaphthylene

Concen: 0.727 ng

RT: 14.110 min Scan# 1422

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

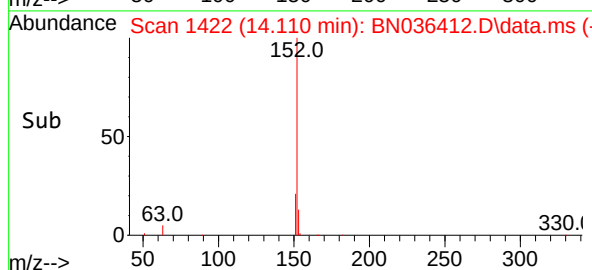
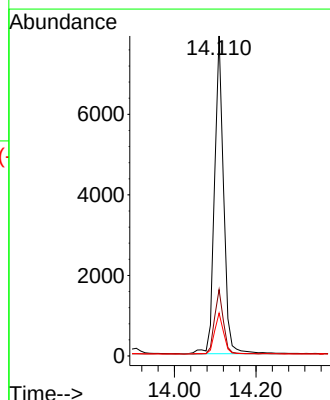
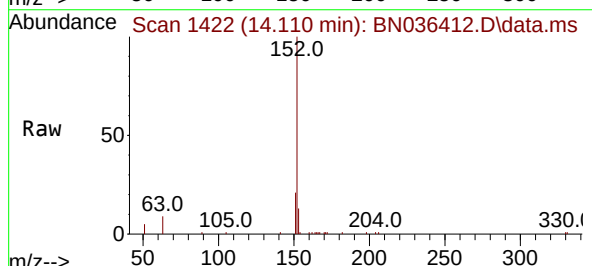
Tgt Ion:152 Resp: 12153

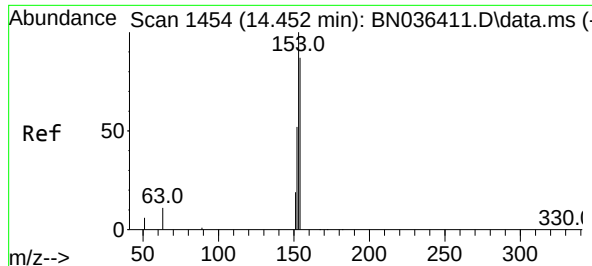
Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.8

153 13.0 10.2 15.2

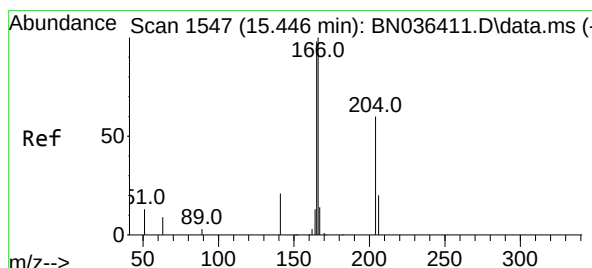
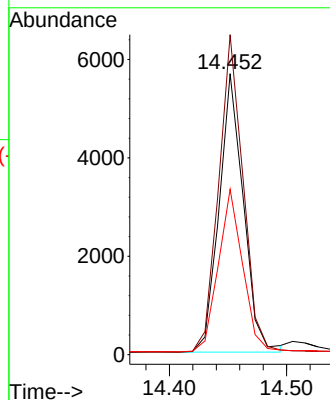
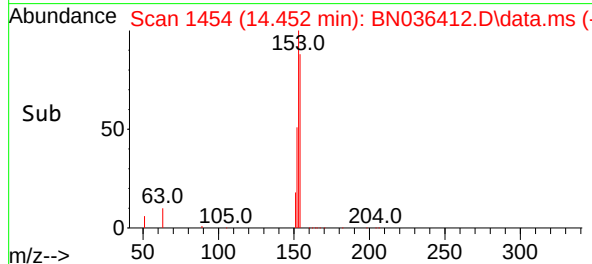
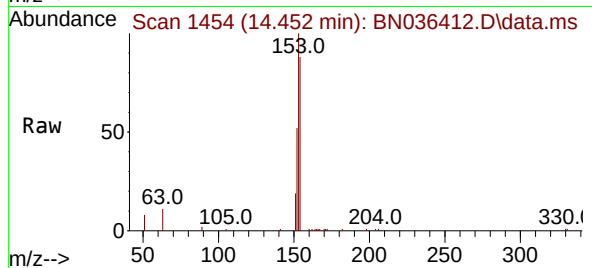




#17
Acenaphthene
Concen: 0.712 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

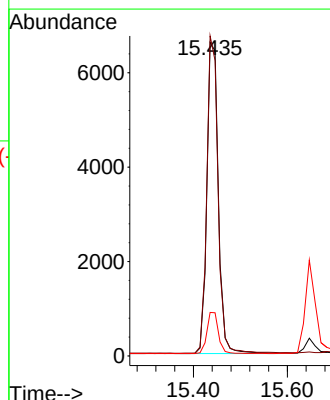
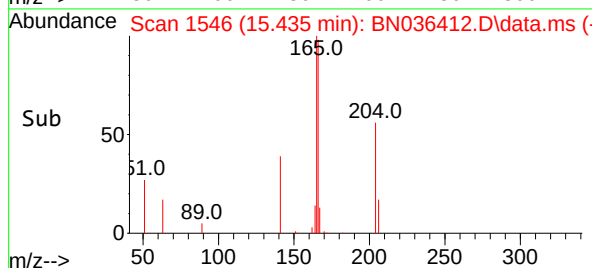
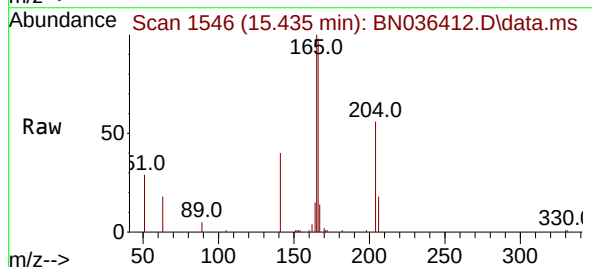
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

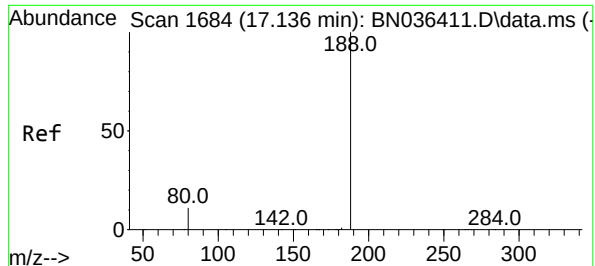
Tgt Ion:154 Resp: 8143
Ion Ratio Lower Upper
154 100
153 115.5 93.3 139.9
152 59.0 48.8 73.2



#18
Fluorene
Concen: 0.798 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:166 Resp: 11752
Ion Ratio Lower Upper
166 100
165 99.6 79.5 119.3
167 13.3 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

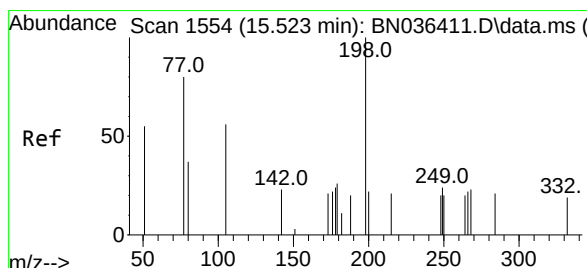
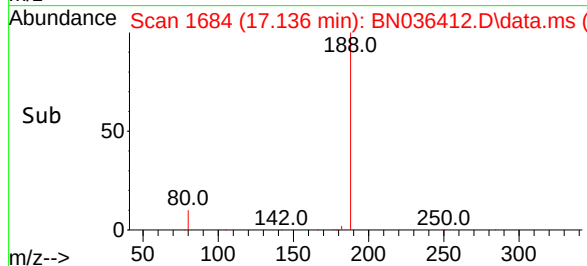
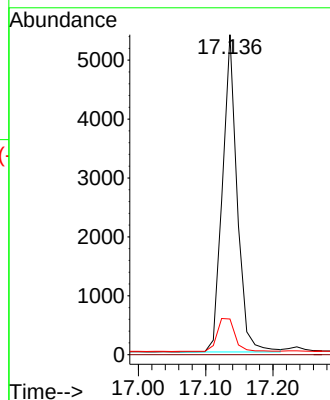
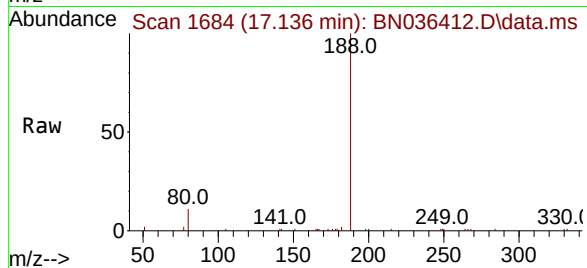
Tgt Ion:188 Resp: 8139

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.658 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

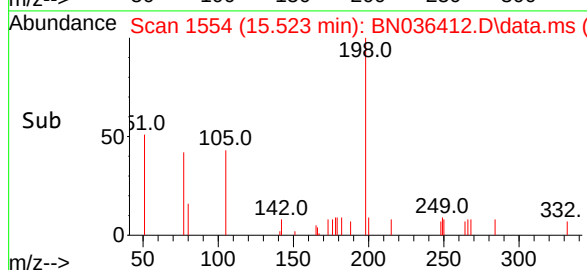
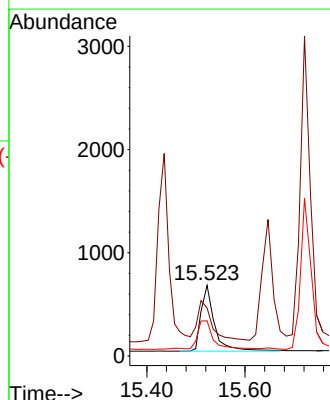
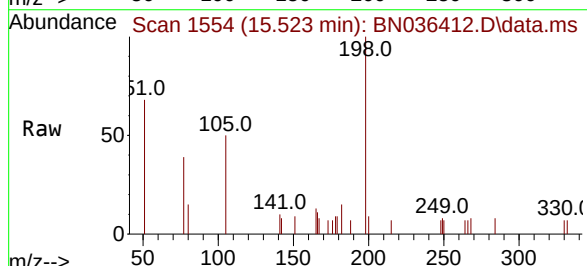
Tgt Ion:198 Resp: 1199

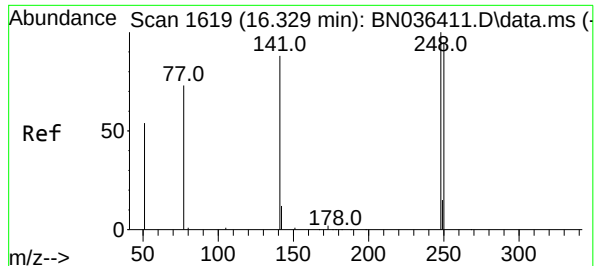
Ion Ratio Lower Upper

198 100

51 68.0 86.6 129.8#

105 49.9 57.5 86.3#

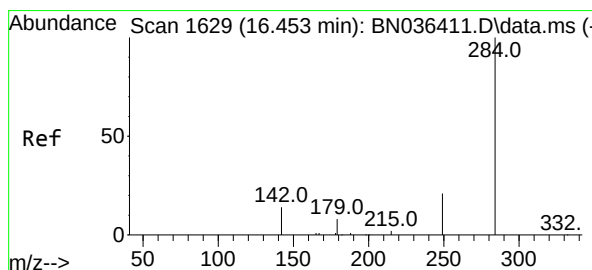
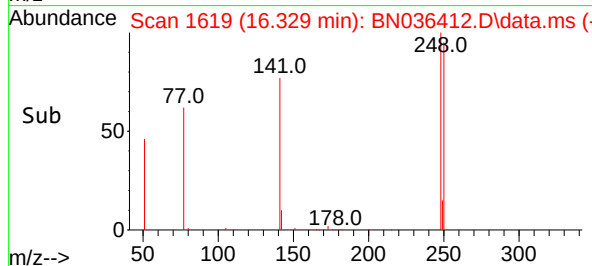
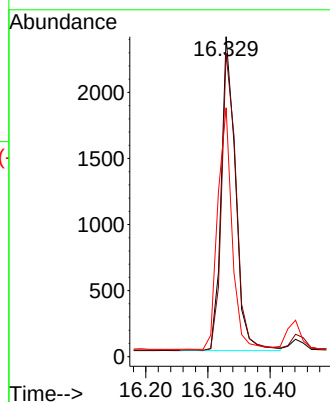
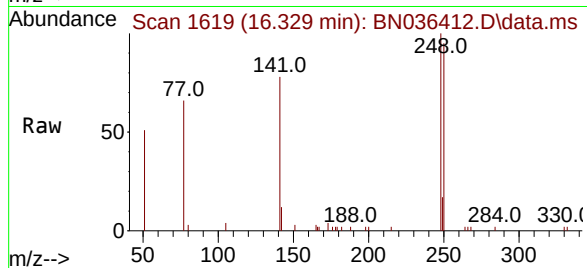




#21
4-Bromophenyl-phenylether
Concen: 0.677 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

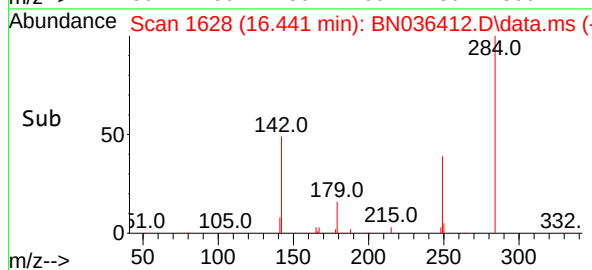
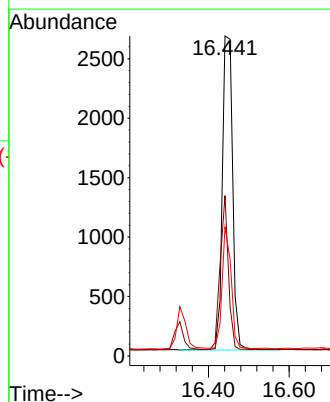
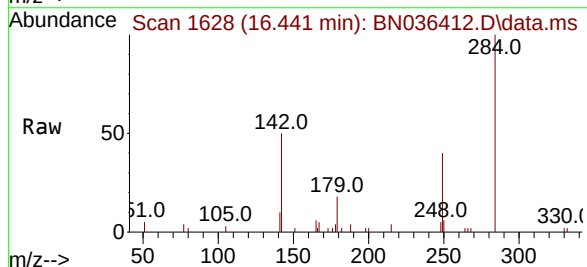
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

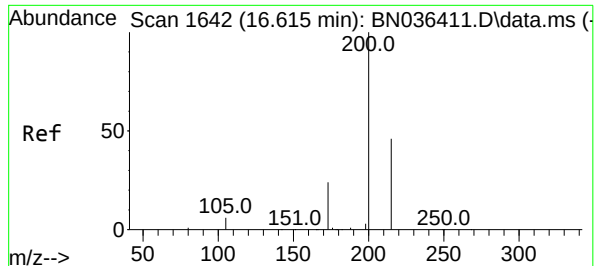
Tgt Ion:248 Resp: 3776
Ion Ratio Lower Upper
248 100
250 94.9 76.1 114.1
141 77.8 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.642 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:284 Resp: 4670
Ion Ratio Lower Upper
284 100
142 39.5 33.4 50.0
249 33.7 28.6 43.0

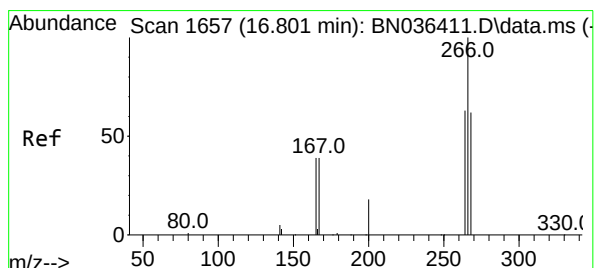
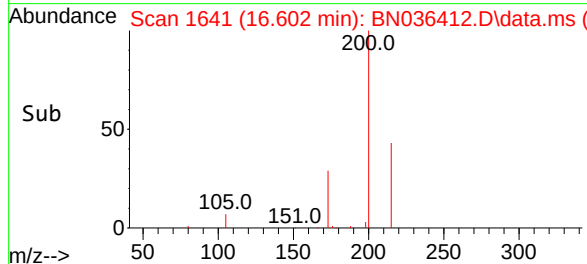
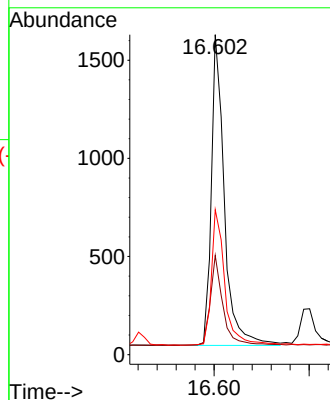
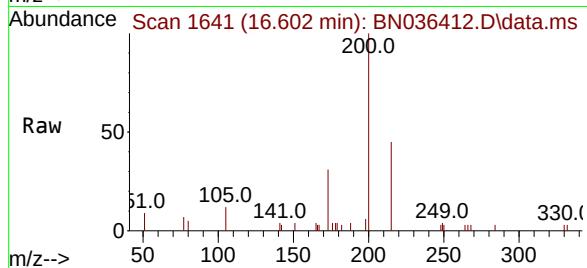




#23
Atrazine
Concen: 0.737 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

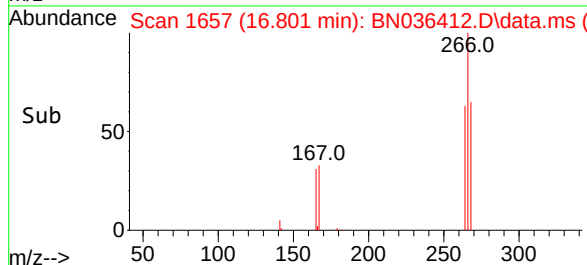
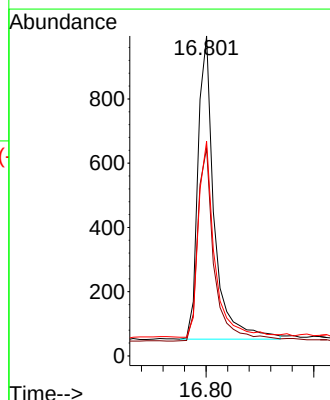
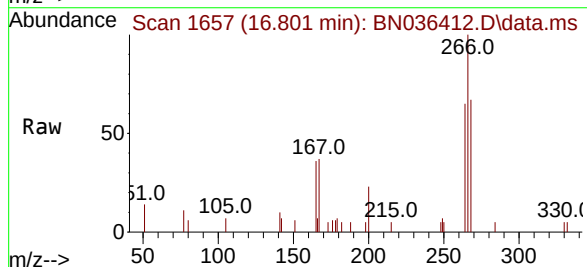
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

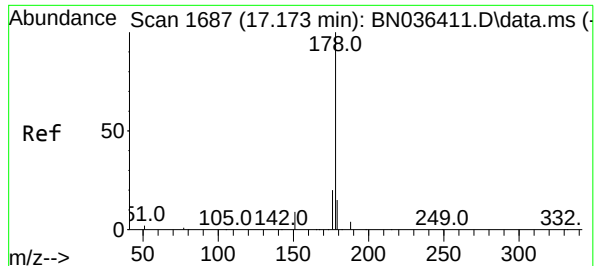
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.0	23.2	34.8
215	45.3	40.0	60.0



#24
Pentachlorophenol
Concen: 0.625 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.5	50.6	76.0
268	64.4	51.9	77.9

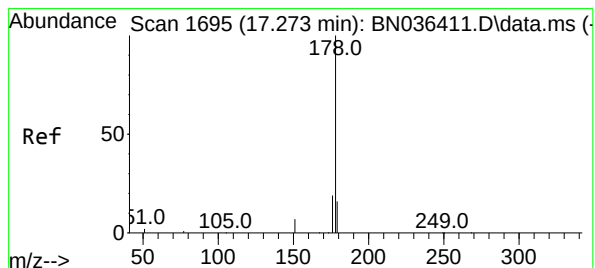
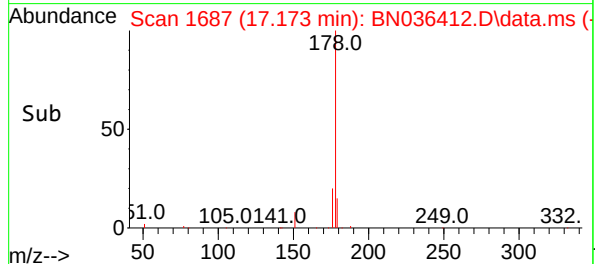
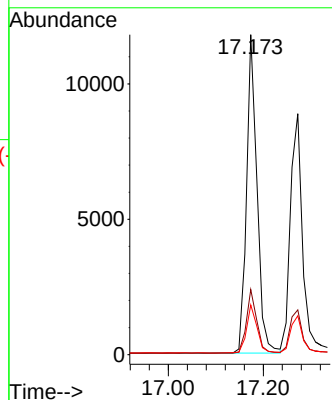
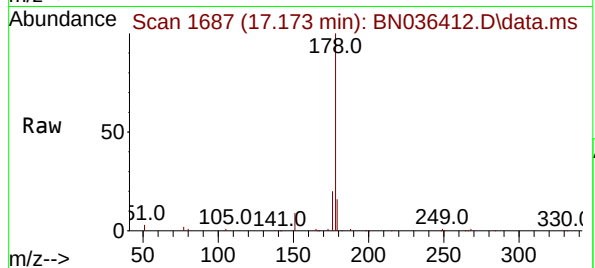




#25
Phenanthrene
Concen: 0.758 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

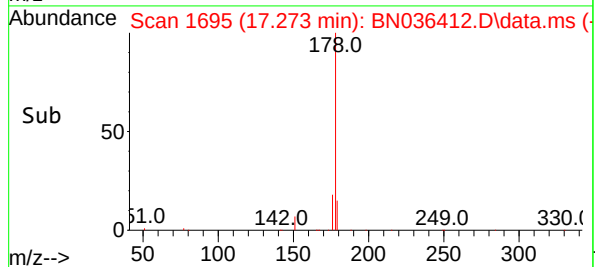
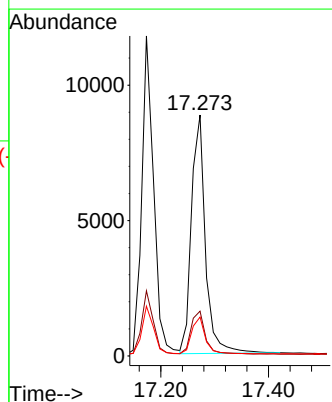
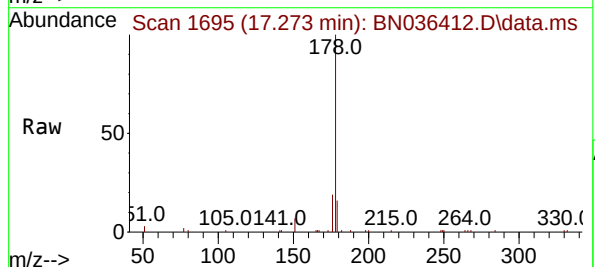
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

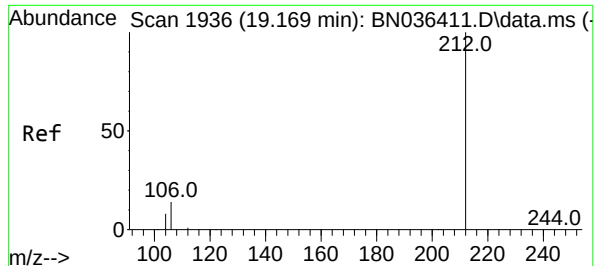
Tgt Ion:178 Resp: 18094
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 0.735 ng
RT: 17.273 min Scan# 1695
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:178 Resp: 15928
Ion Ratio Lower Upper
178 100
176 18.3 14.9 22.3
179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.823 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

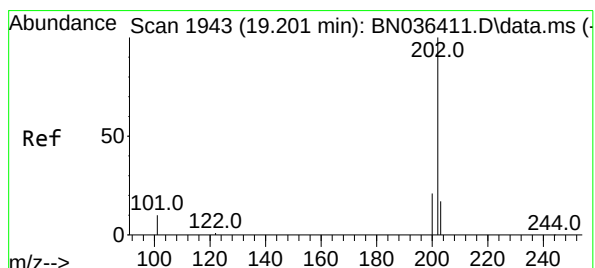
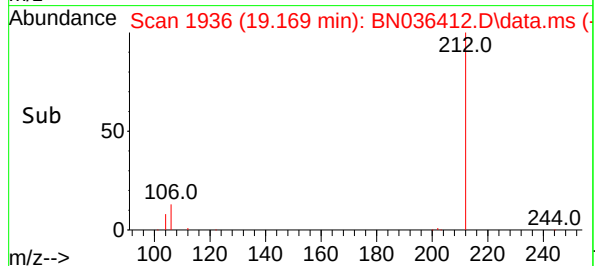
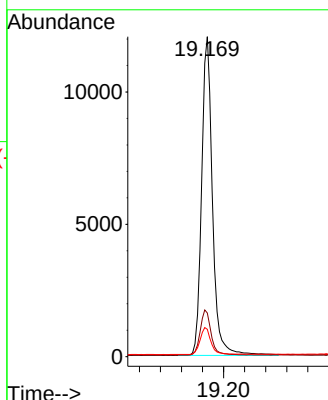
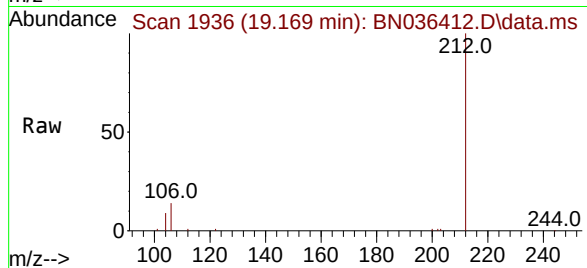
Tgt Ion:212 Resp: 17242

Ion Ratio Lower Upper

212 100

106 14.2 11.5 17.3

104 8.4 7.1 10.7



#28

Fluoranthene

Concen: 0.781 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

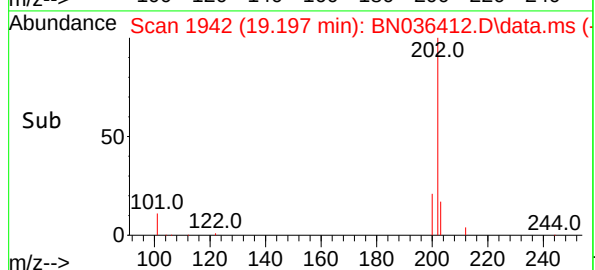
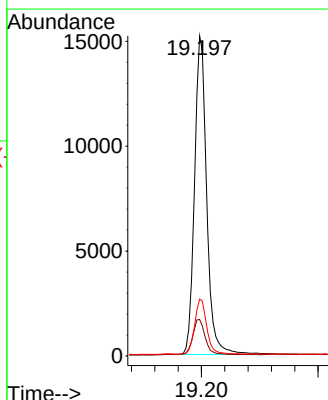
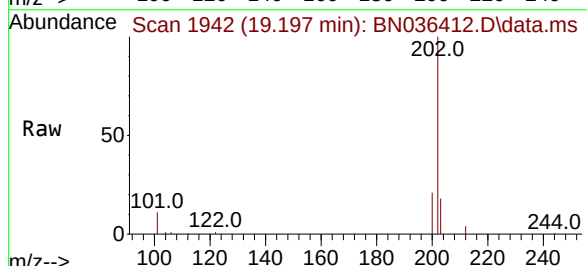
Tgt Ion:202 Resp: 22075

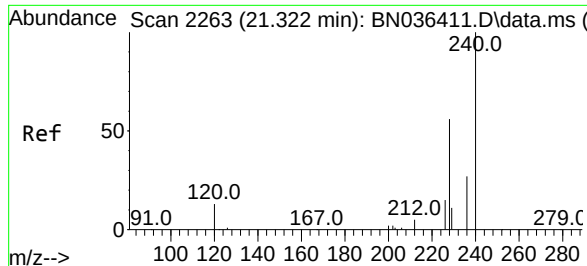
Ion Ratio Lower Upper

202 100

101 11.4 9.2 13.8

203 17.0 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

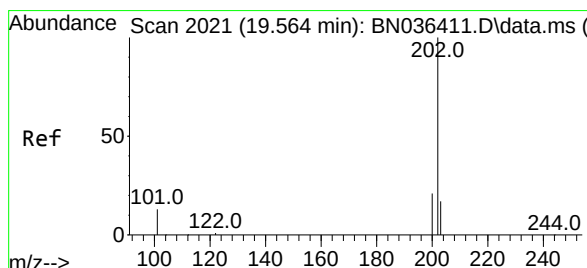
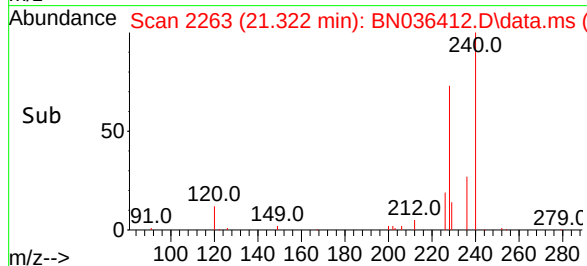
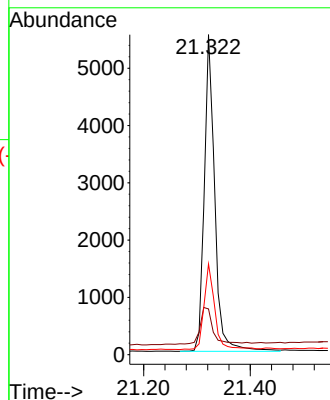
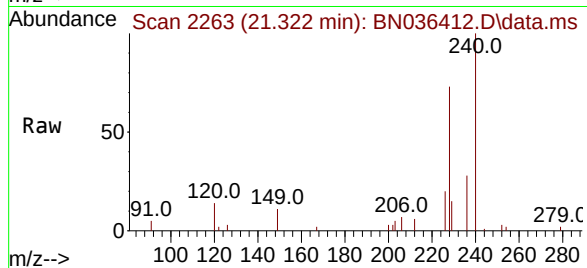
Tgt Ion:240 Resp: 7521

Ion Ratio Lower Upper

240 100

120 14.3 13.3 19.9

236 28.3 23.0 34.6



#30

Pyrene

Concen: 0.746 ng

RT: 19.564 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

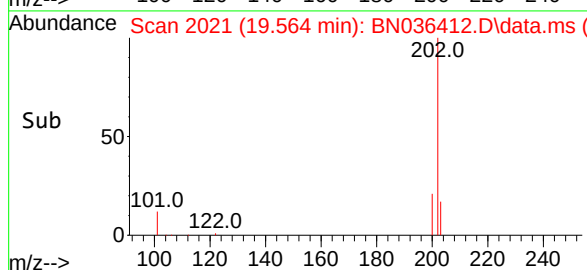
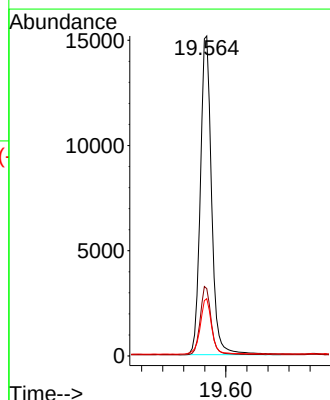
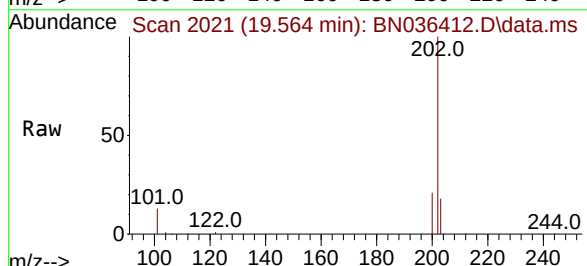
Tgt Ion:202 Resp: 22410

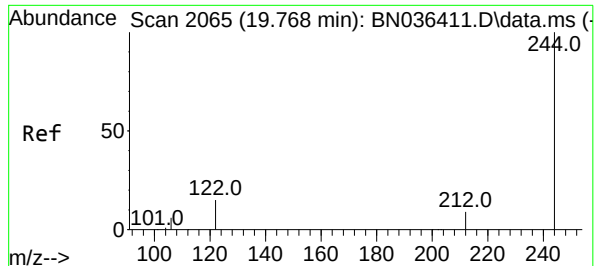
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.9 13.9 20.9

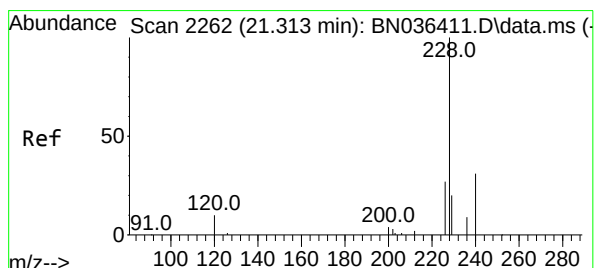
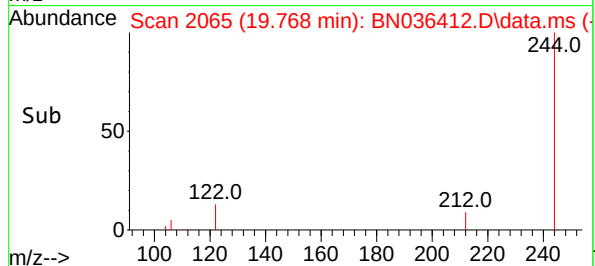
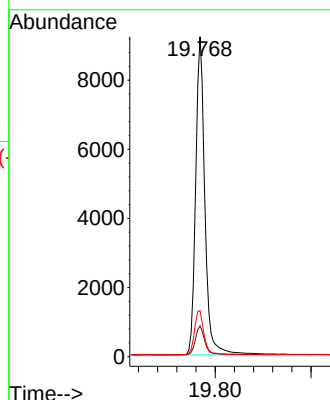
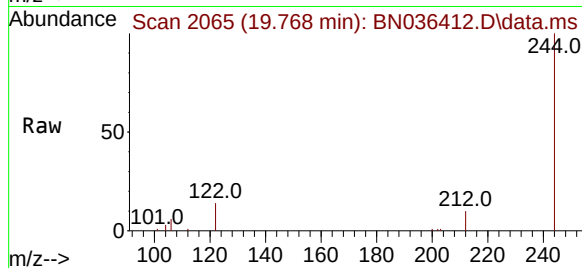




#31
Terphenyl-d14
Concen: 0.800 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

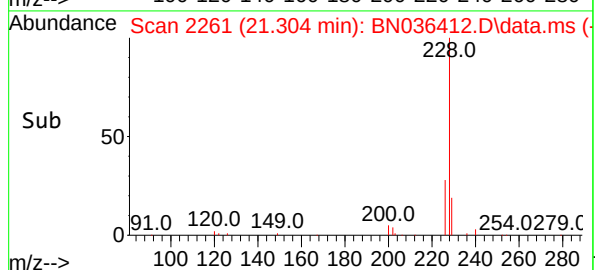
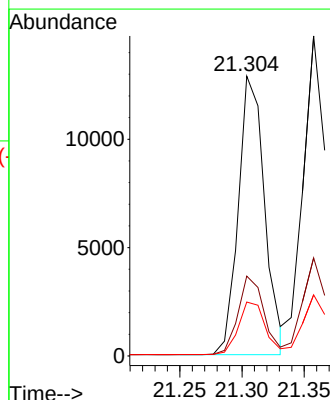
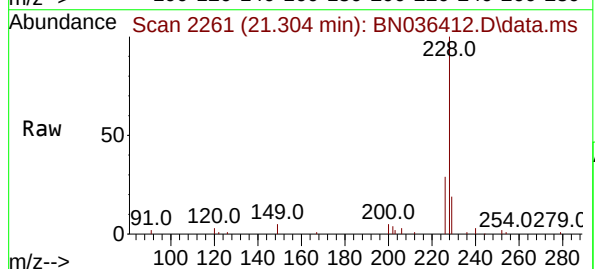
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

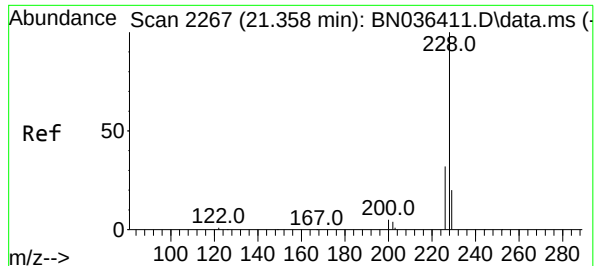
Tgt Ion:244 Resp: 12467
Ion Ratio Lower Upper
244 100
212 9.6 8.1 12.1
122 14.3 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.707 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036412.D
Acq: 10 Feb 2025 14:12

Tgt Ion:228 Resp: 18881
Ion Ratio Lower Upper
228 100
226 28.5 22.2 33.2
229 19.3 16.5 24.7





#33

Chrysene

Concen: 0.776 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

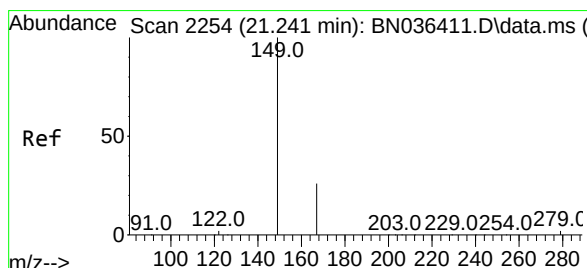
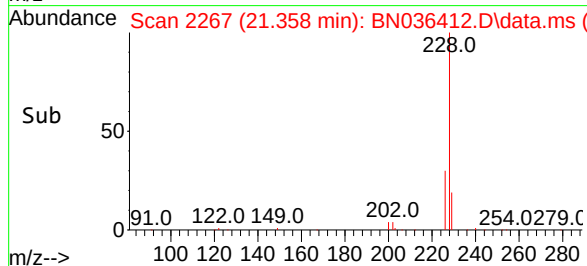
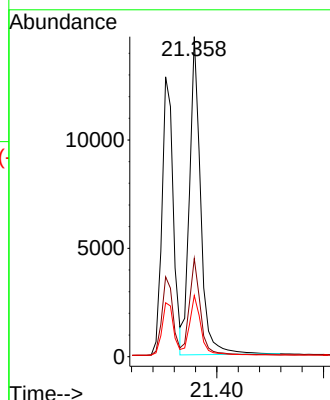
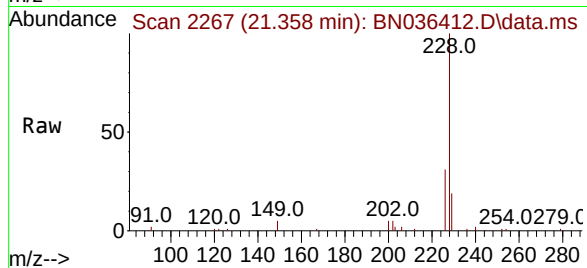
Tgt Ion:228 Resp: 21269

Ion Ratio Lower Upper

228 100

226 30.6 25.5 38.3

229 19.1 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.752 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

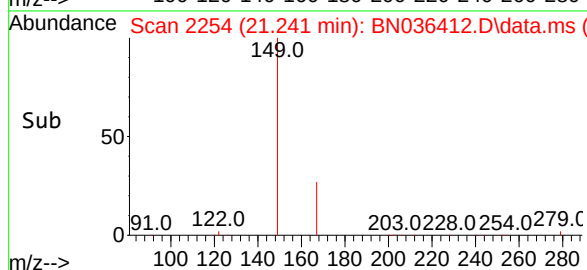
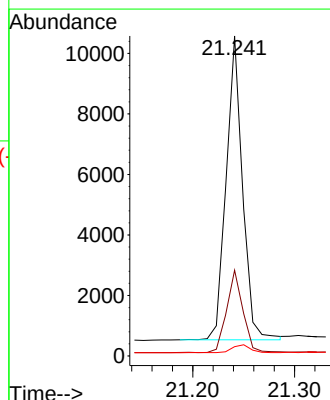
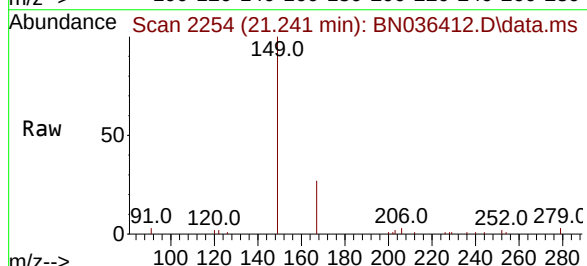
Tgt Ion:149 Resp: 11207

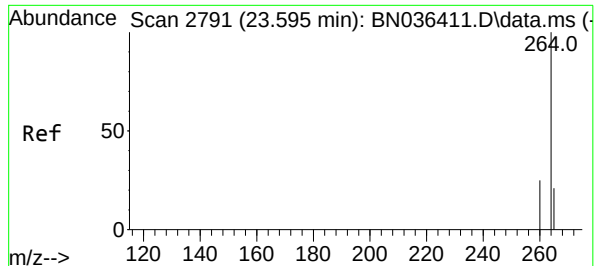
Ion Ratio Lower Upper

149 100

167 27.0 21.2 31.8

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.595 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036412.D

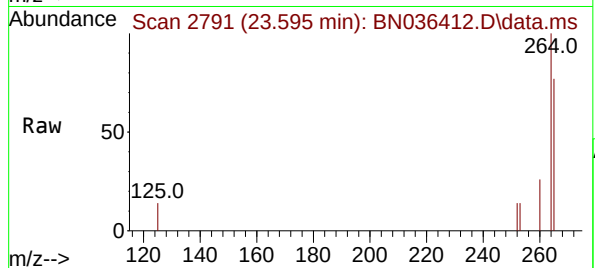
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



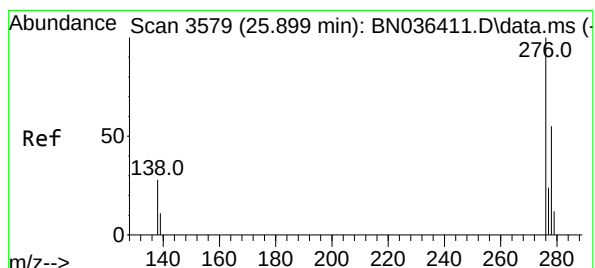
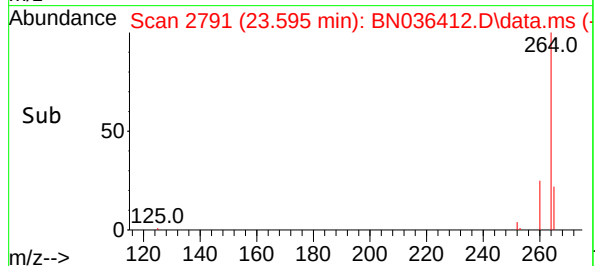
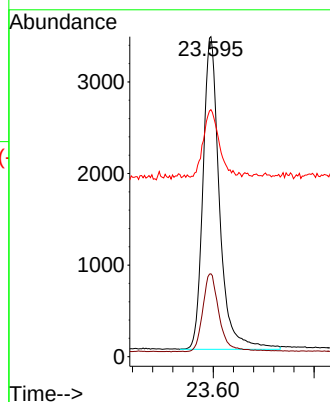
Tgt Ion:264 Resp: 7758

Ion Ratio Lower Upper

264 100

260 25.9 20.9 31.3

265 77.2 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.708 ng

RT: 25.893 min Scan# 3577

Delta R.T. -0.006 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

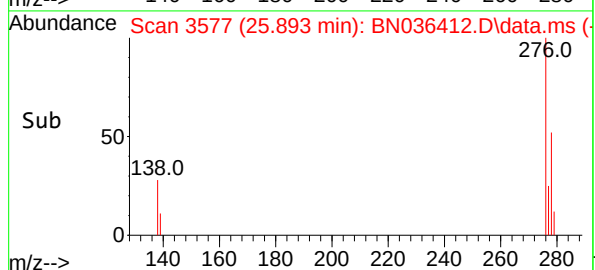
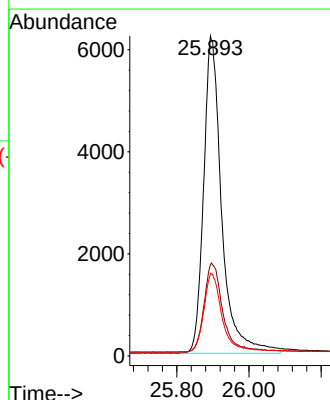
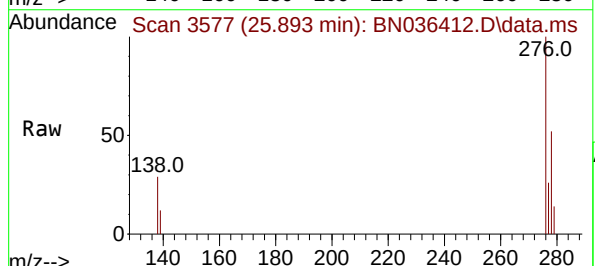
Tgt Ion:276 Resp: 21570

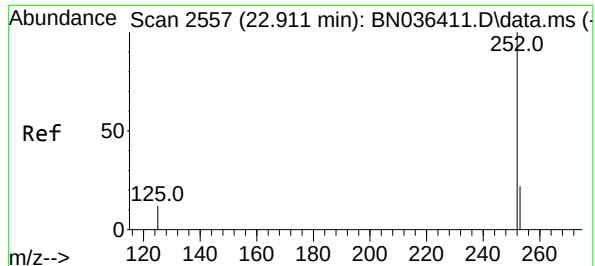
Ion Ratio Lower Upper

276 100

138 28.9 22.2 33.2

277 23.9 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.727 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

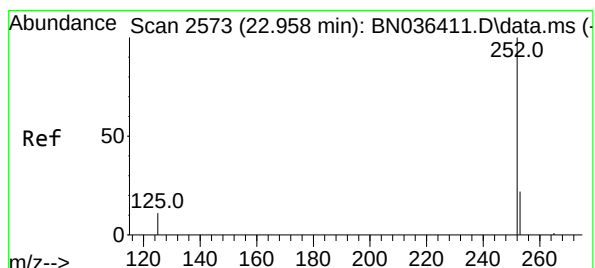
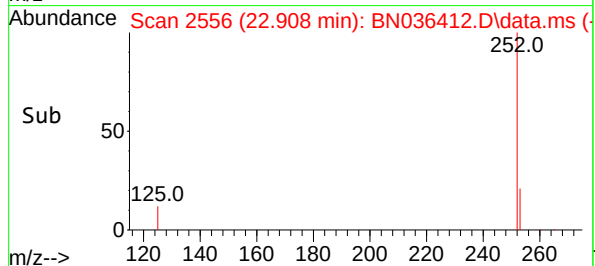
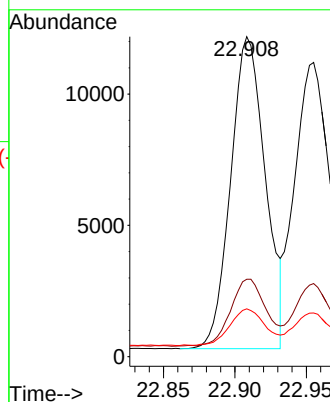
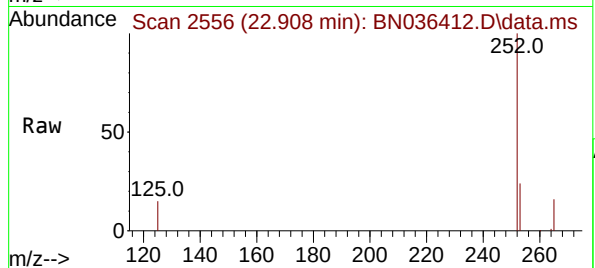
Tgt Ion:252 Resp: 20019

Ion Ratio Lower Upper

252 100

253 24.2 21.9 32.9

125 15.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.733 ng

RT: 22.955 min Scan# 2572

Delta R.T. -0.003 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

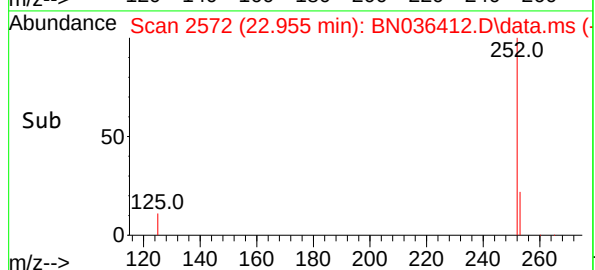
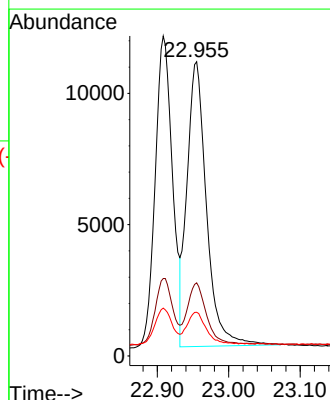
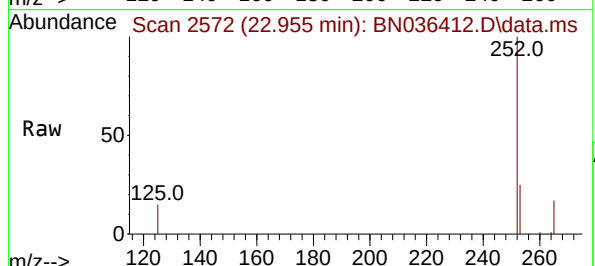
Tgt Ion:252 Resp: 20570

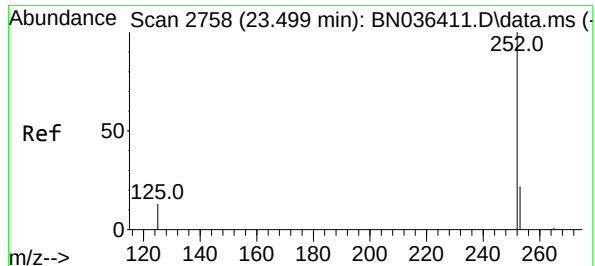
Ion Ratio Lower Upper

252 100

253 24.9 22.2 33.4

125 14.8 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.731 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

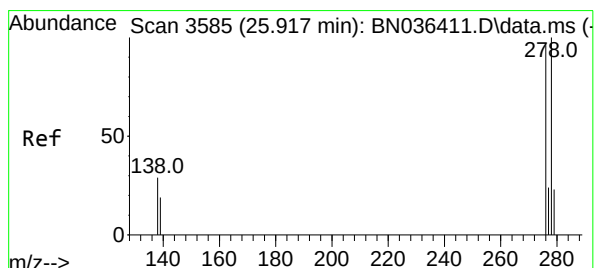
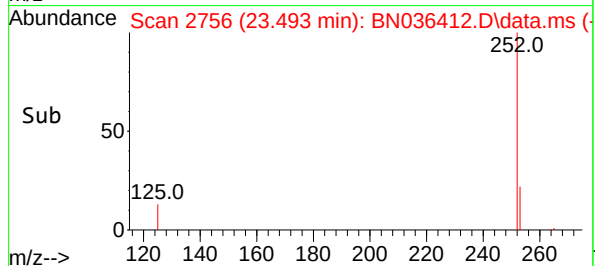
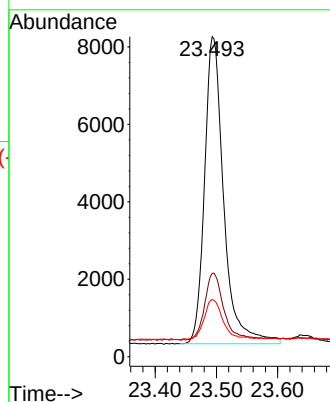
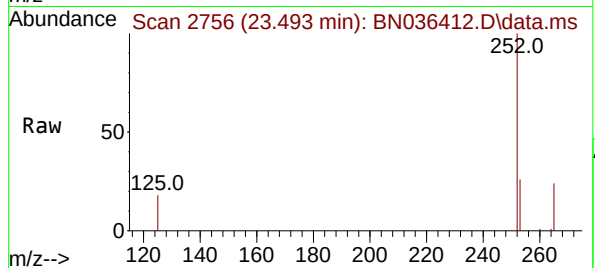
Tgt Ion:252 Resp: 17289

Ion Ratio Lower Upper

252 100

253 26.0 24.4 36.6

125 17.9 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.697 ng

RT: 25.911 min Scan# 3583

Delta R.T. -0.006 min

Lab File: BN036412.D

Acq: 10 Feb 2025 14:12

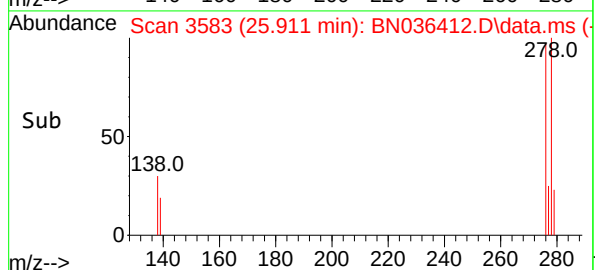
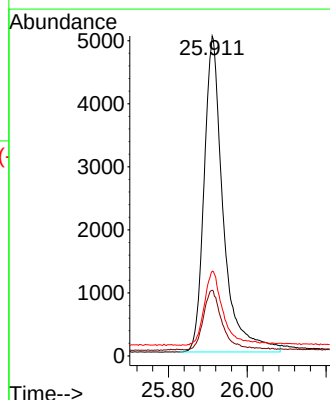
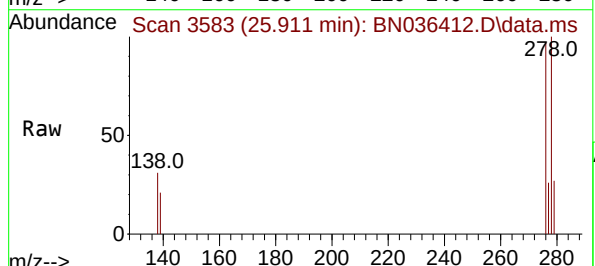
Tgt Ion:278 Resp: 16872

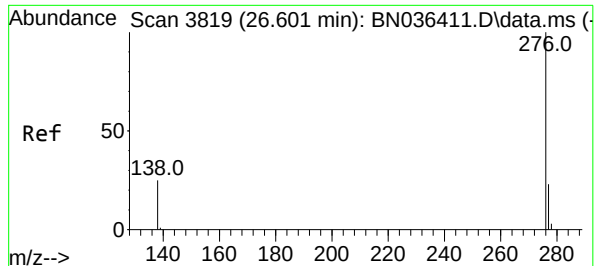
Ion Ratio Lower Upper

278 100

139 20.6 18.5 27.7

279 26.5 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.718 ng

RT: 26.598 min Scan# 3818

Delta R.T. -0.003 min

Lab File: BN036412.D

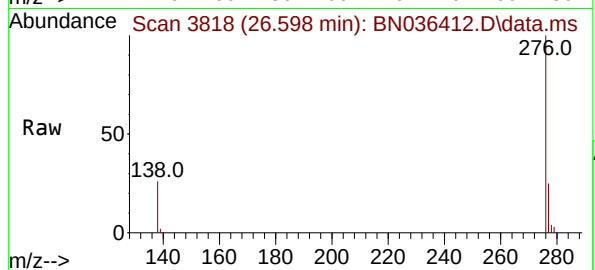
Acq: 10 Feb 2025 14:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



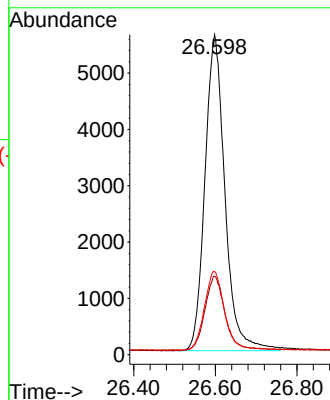
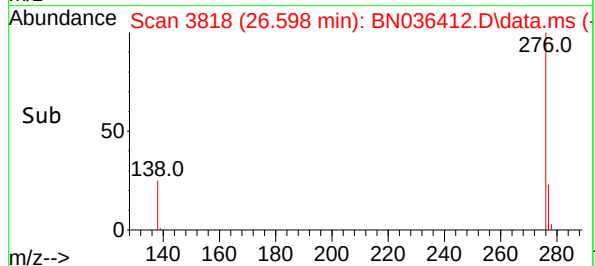
Tgt Ion:276 Resp: 19078

Ion Ratio Lower Upper

276 100

277 24.6 20.7 31.1

138 26.0 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036413.D
 Acq On : 10 Feb 2025 14:48
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Feb 11 00:36:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

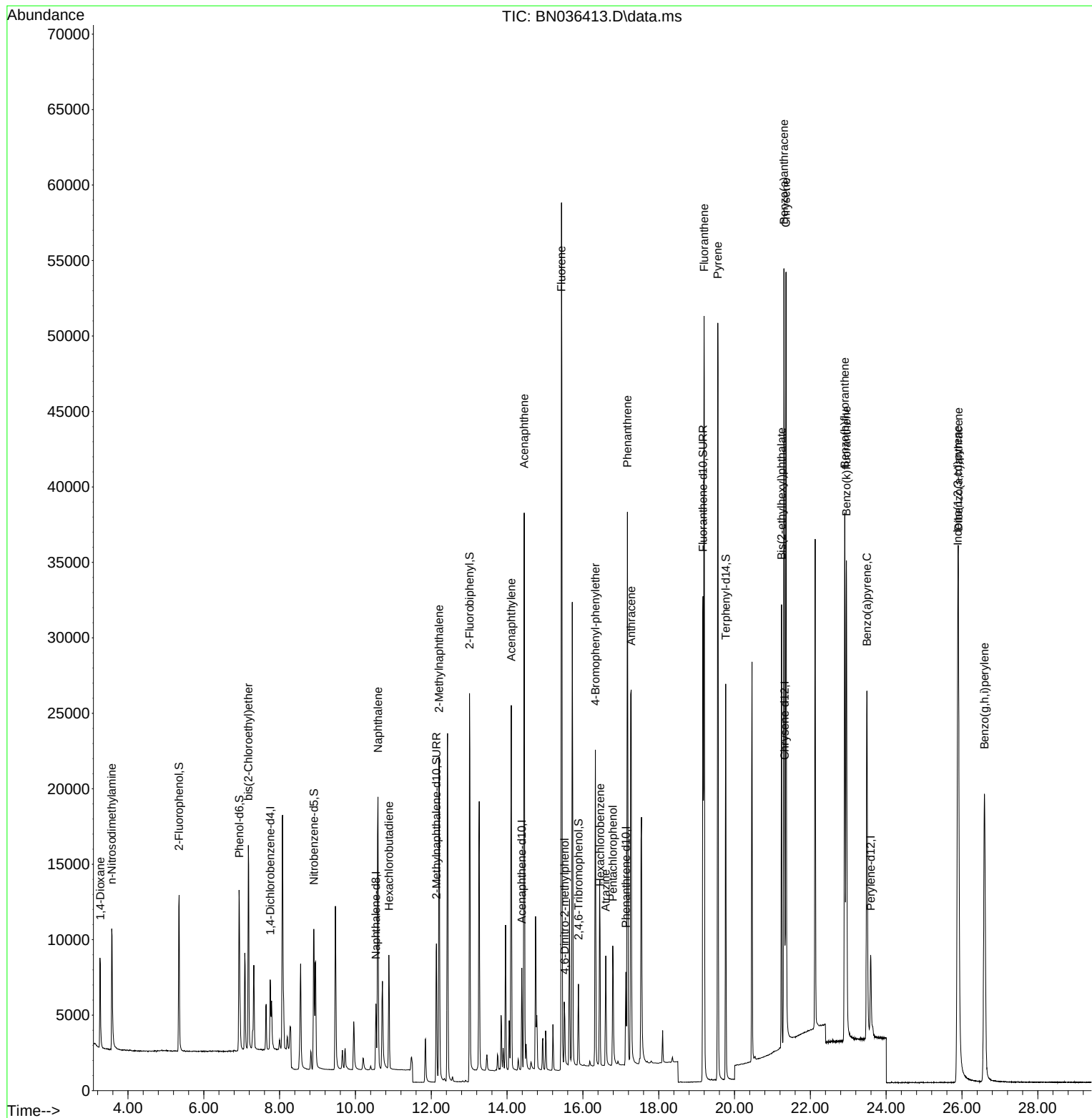
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2193	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5625	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	3645	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8137	0.400	ng	0.00
29) Chrysene-d12	21.322	240	7773	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	7967	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	8016	1.436	ng	0.00
5) Phenol-d6	6.937	99	9644	1.481	ng	0.00
8) Nitrobenzene-d5	8.907	82	8250	1.574	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	13436	1.746	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	2844	1.266	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	22810	1.467	ng	-0.01
27) Fluoranthene-d10	19.169	212	35740	1.707	ng	0.00
31) Terphenyl-d14	19.768	244	25927	1.611	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	3606	1.487	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.572	42	6208	1.425	ng	99
6) bis(2-Chloroethyl)ether	7.175	93	9821	1.813	ng	98
9) Naphthalene	10.594	128	24185	1.505	ng	97
10) Hexachlorobutadiene	10.882	225	5933	1.178	ng	# 100
12) 2-Methylnaphthalene	12.207	142	16325	1.617	ng	99
16) Acenaphthylene	14.110	152	25289	1.499	ng	100
17) Acenaphthene	14.452	154	17130	1.483	ng	97
18) Fluorene	15.435	166	24341	1.638	ng	100
20) 4,6-Dinitro-2-methylph...	15.522	198	2725	1.497	ng	# 47
21) 4-Bromophenyl-phenylether	16.329	248	7690	1.379	ng	91
22) Hexachlorobenzene	16.453	284	9401	1.292	ng	97
23) Atrazine	16.602	200	6316	1.541	ng	95
24) Pentachlorophenol	16.789	266	4352	1.368	ng	99
25) Phenanthrene	17.173	178	37027	1.552	ng	100
26) Anthracene	17.273	178	33031	1.524	ng	99
28) Fluoranthene	19.197	202	45708	1.617	ng	99
30) Pyrene	19.559	202	46256	1.489	ng	100
32) Benzo(a)anthracene	21.304	228	40416	1.463	ng	99
33) Chrysene	21.357	228	43661	1.542	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	23672	1.538	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	46083	1.472	ng	98
37) Benzo(b)fluoranthene	22.908	252	42491	1.502	ng	# 89
38) Benzo(k)fluoranthene	22.952	252	42933	1.489	ng	# 89
39) Benzo(a)pyrene	23.493	252	36490	1.503	ng	# 86
40) Dibenzo(a,h)anthracene	25.905	278	36765	1.478	ng	# 90
41) Benzo(g,h,i)perylene	26.592	276	40441	1.482	ng	98

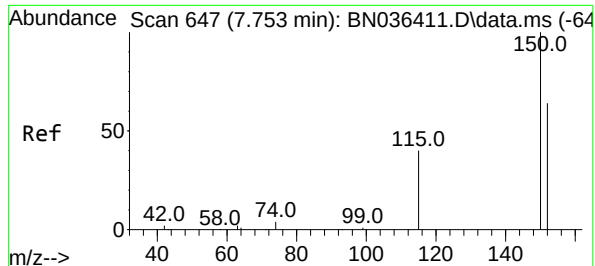
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036413.D
Acq On : 10 Feb 2025 14:48
Operator : RC/JU
Sample : SSTDIC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC1.6

Quant Time: Feb 11 00:36:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

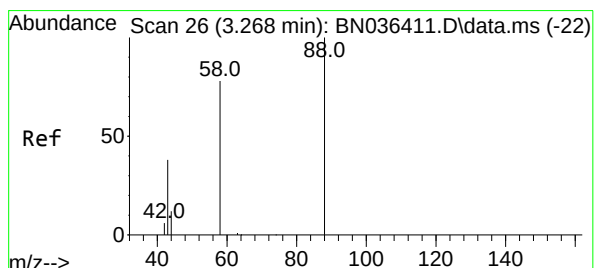
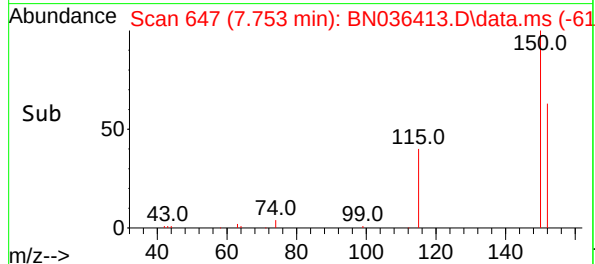
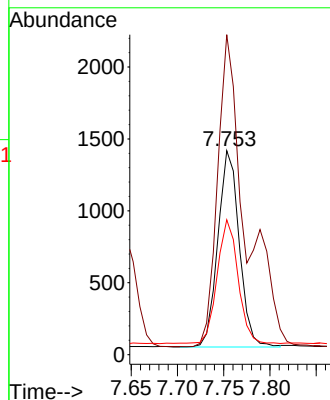
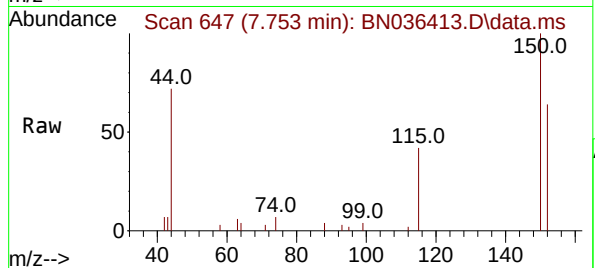




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

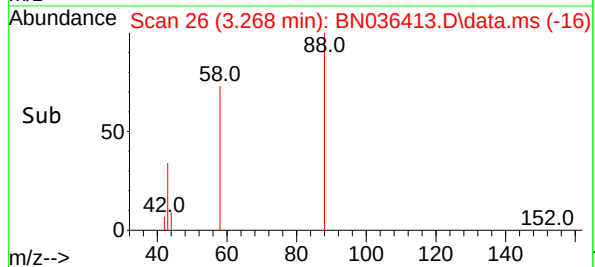
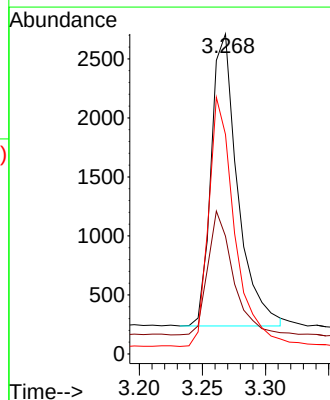
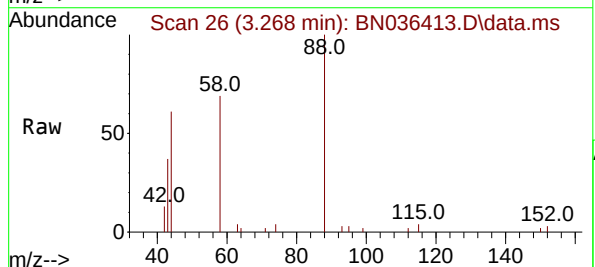
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

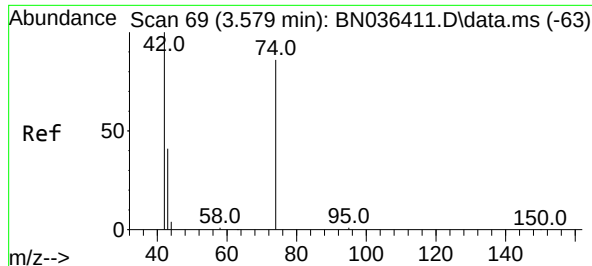
Tgt Ion:152 Resp: 2193
Ion Ratio Lower Upper
152 100
150 156.9 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 1.487 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion: 88 Resp: 3606
Ion Ratio Lower Upper
88 100
43 40.7 33.7 50.5
58 84.0 68.9 103.3

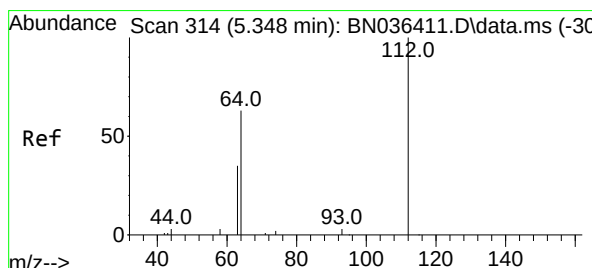
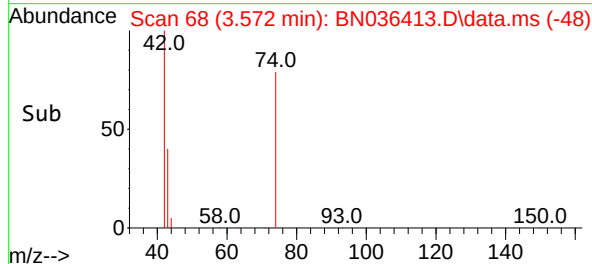
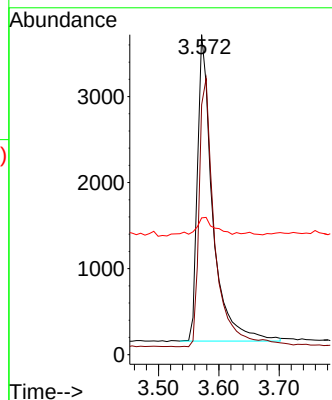
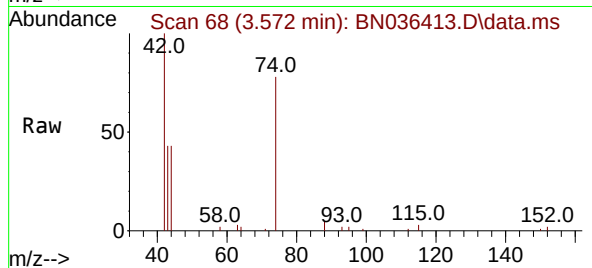




#3
n-Nitrosodimethylamine
Concen: 1.425 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

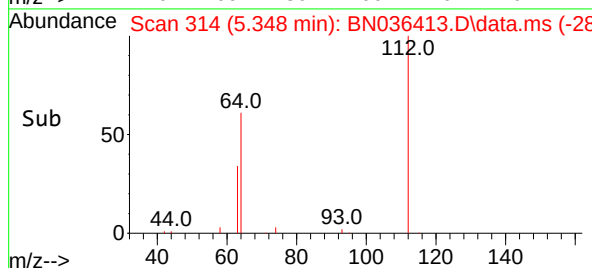
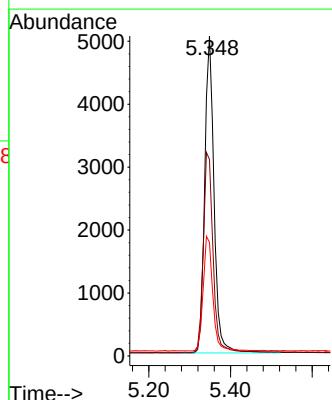
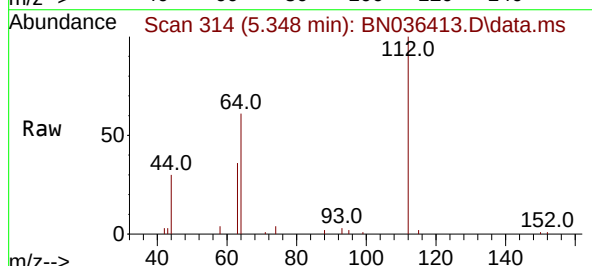
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

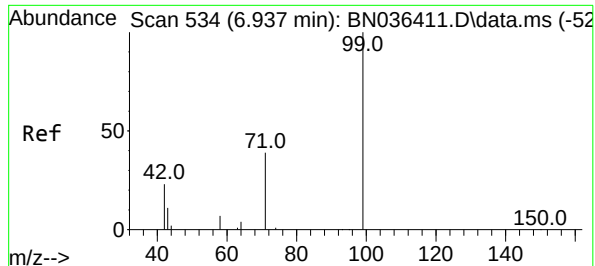
Tgt Ion: 42 Resp: 6208
Ion Ratio Lower Upper
42 100
74 90.8 71.8 107.6
44 7.9 7.8 11.6



#4
2-Fluorophenol
Concen: 1.436 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion: 112 Resp: 8016
Ion Ratio Lower Upper
112 100
64 65.9 53.4 80.0
63 37.6 30.3 45.5

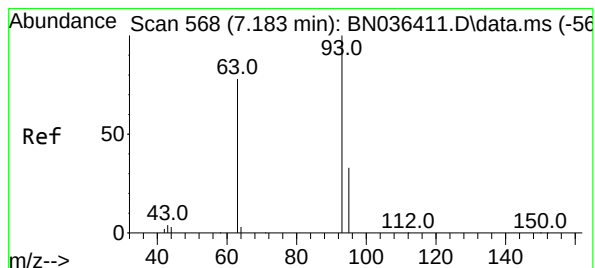
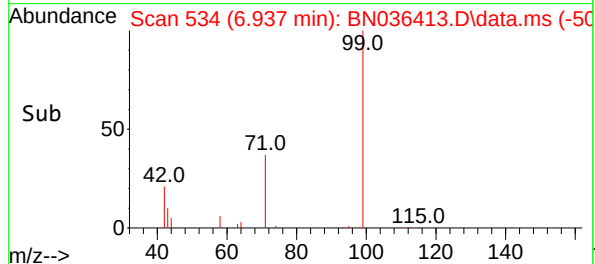
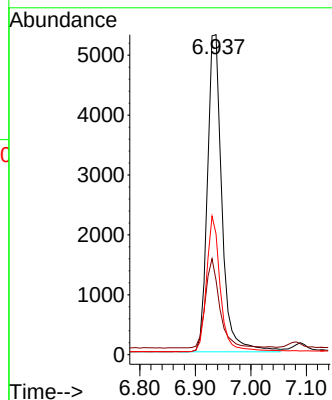
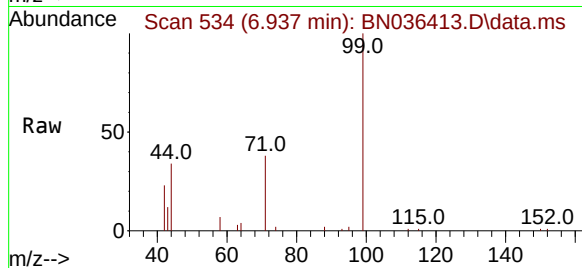




#5
Phenol-d6
Concen: 1.481 ng
RT: 6.937 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

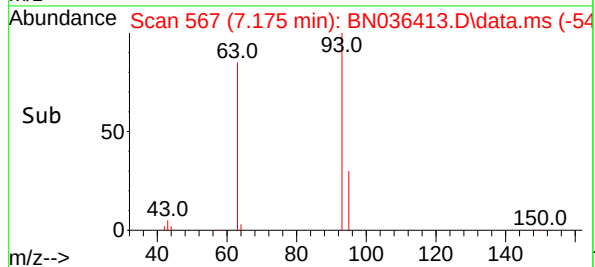
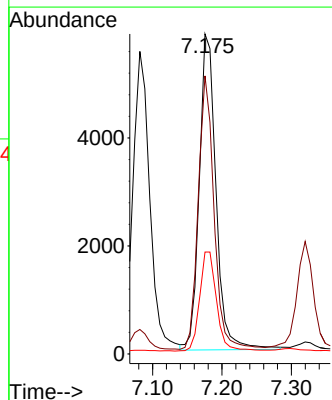
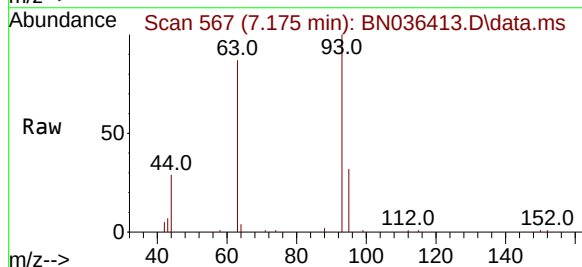
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

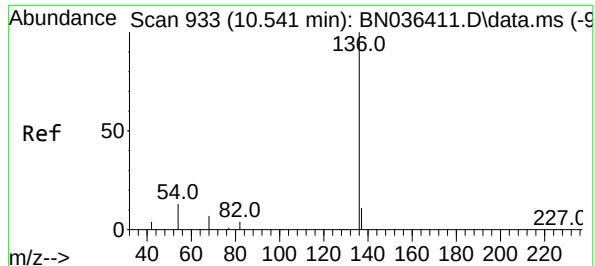
Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.7	21.7	32.5
71	41.1	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 1.813 ng
RT: 7.175 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion	Ratio	Lower	Upper
93	100		
63	81.0	66.3	99.5
95	31.5	26.2	39.4

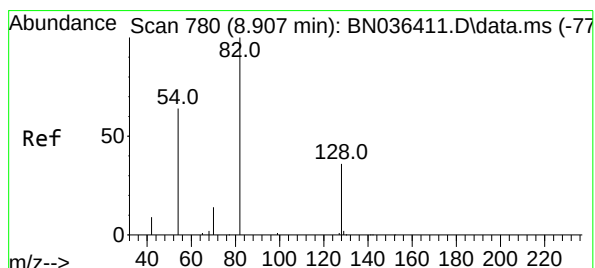
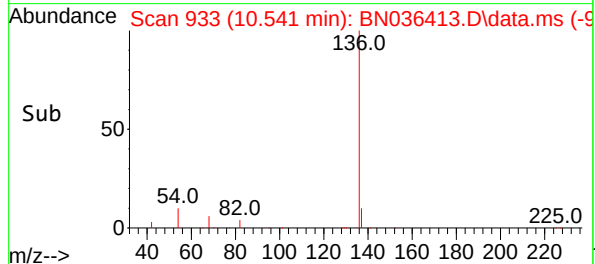
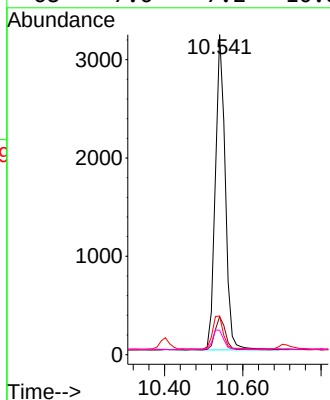
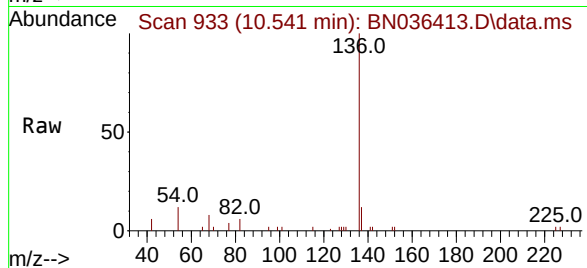




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

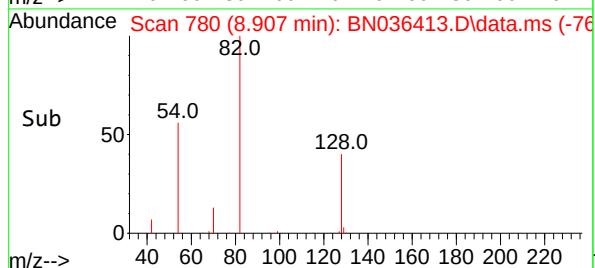
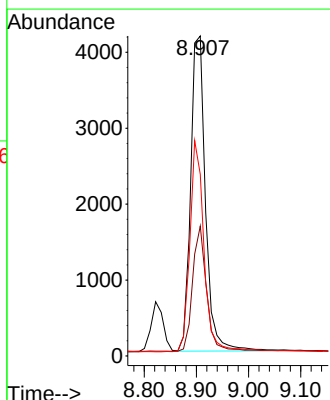
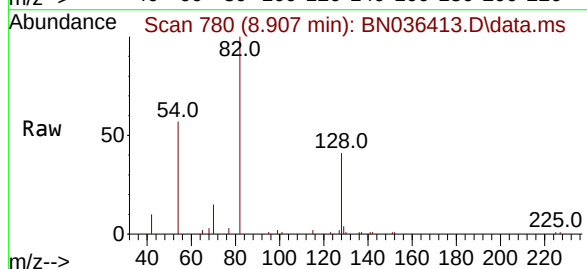
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

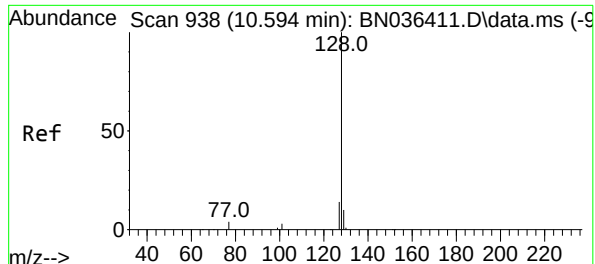
Tgt Ion:	136	Resp:	5625
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	12.0	11.8	17.6
68	7.6	7.2	10.8



#8
Nitrobenzene-d5
Concen: 1.574 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:	82	Resp:	8250
Ion	Ratio	Lower	Upper
82	100		
128	40.6	31.9	47.9
54	56.8	53.1	79.7





#9
Naphthalene

Concen: 1.505 ng

RT: 10.594 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

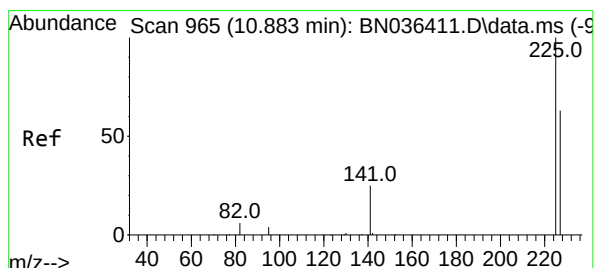
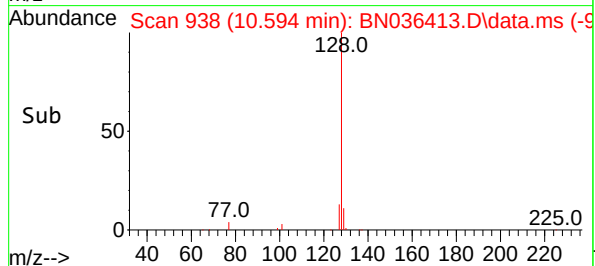
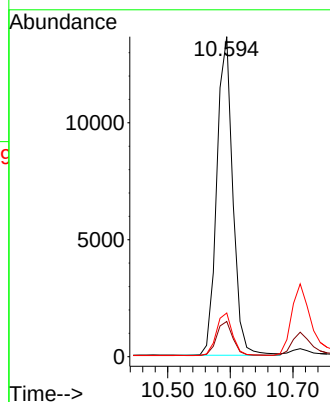
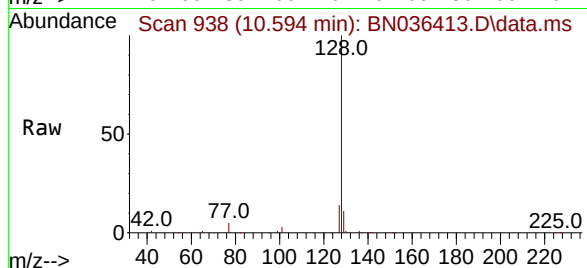
Tgt Ion:128 Resp: 24185

Ion Ratio Lower Upper

128 100

129 11.0 9.6 14.4

127 13.7 12.0 18.0



#10

Hexachlorobutadiene

Concen: 1.178 ng

RT: 10.882 min Scan# 965

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

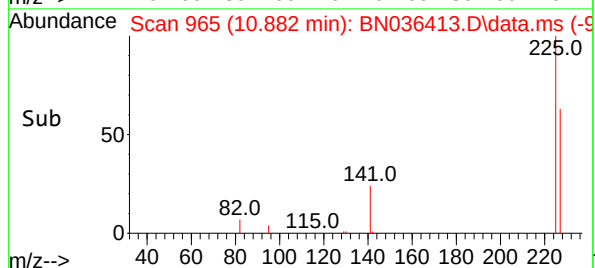
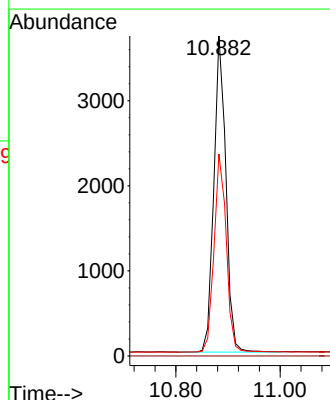
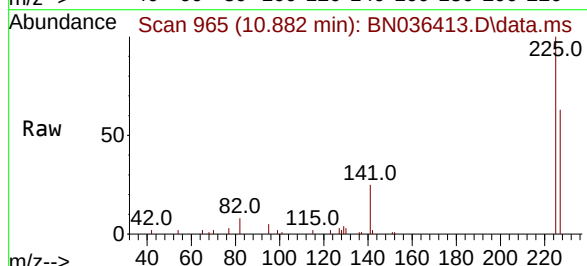
Tgt Ion:225 Resp: 5933

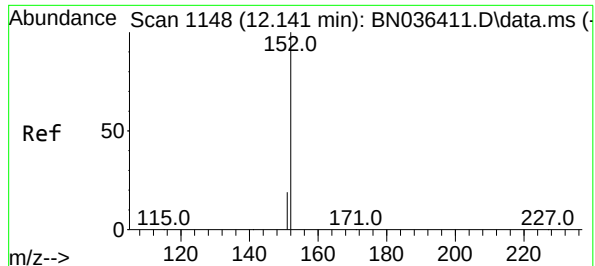
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 50.9 76.3

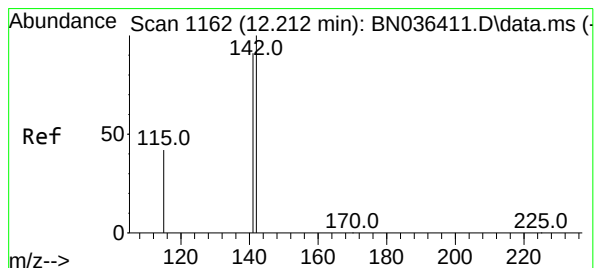
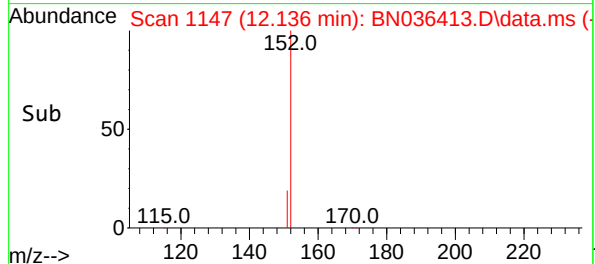
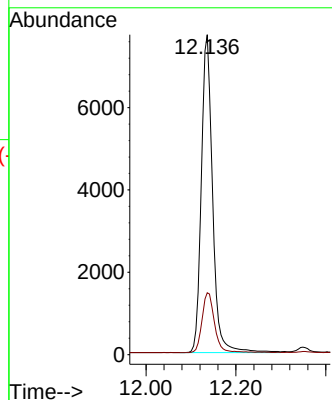
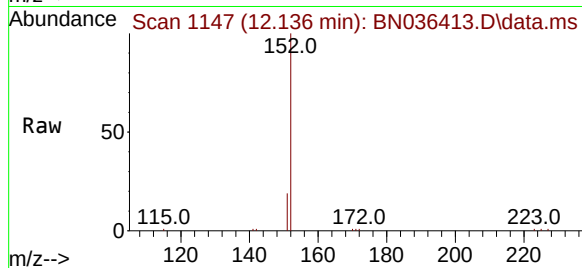




#11
2-Methylnaphthalene-d10
Concen: 1.746 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

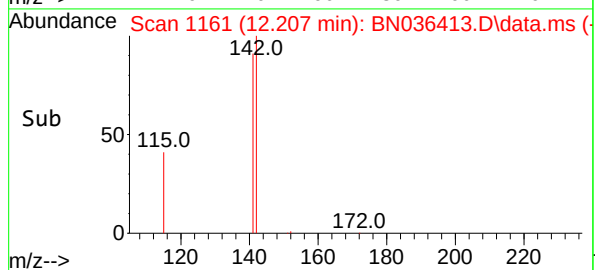
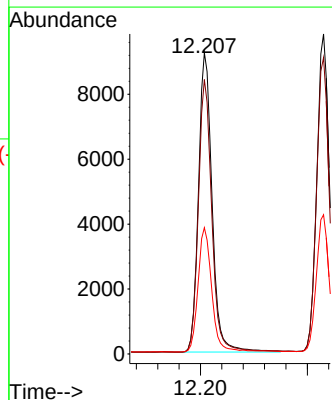
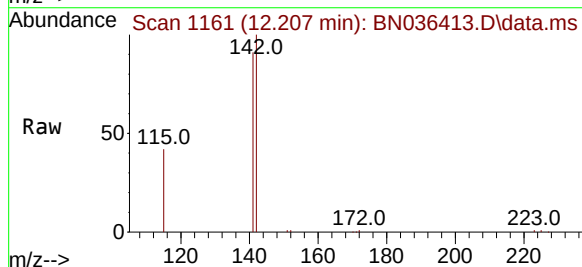
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

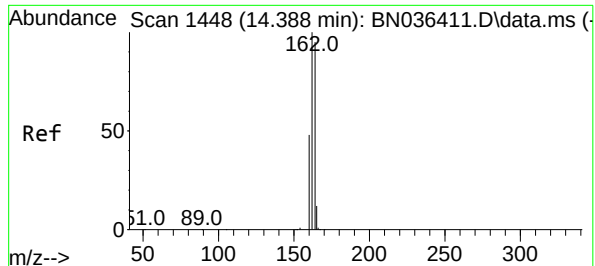
Tgt Ion:152 Resp: 13436
Ion Ratio Lower Upper
152 100
151 20.8 16.6 25.0



#12
2-Methylnaphthalene
Concen: 1.617 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:142 Resp: 16325
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 41.9 35.5 53.3

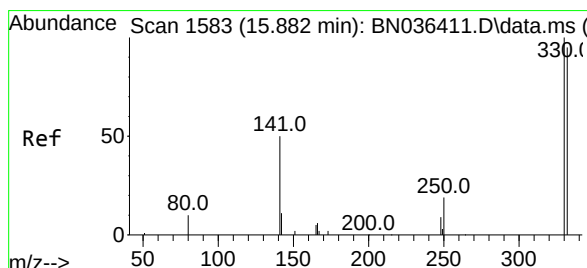
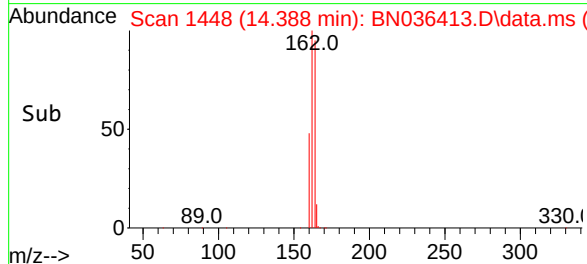
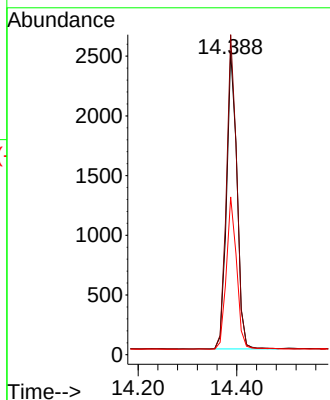
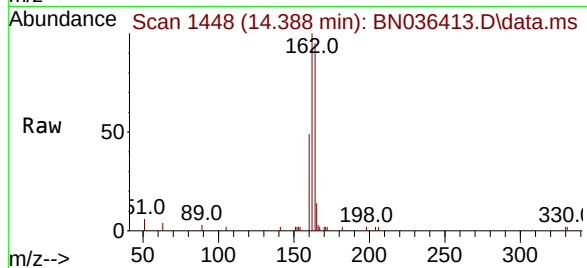




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

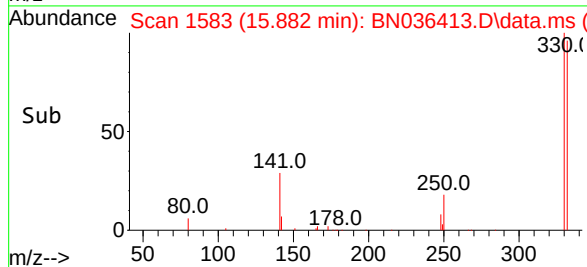
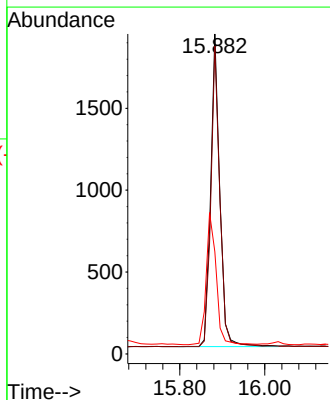
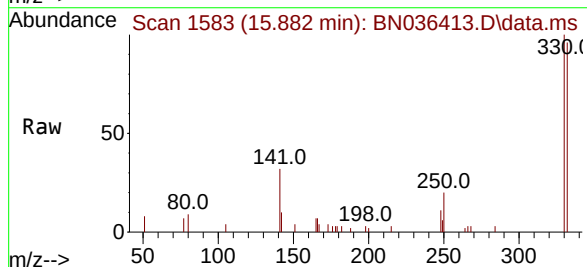
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

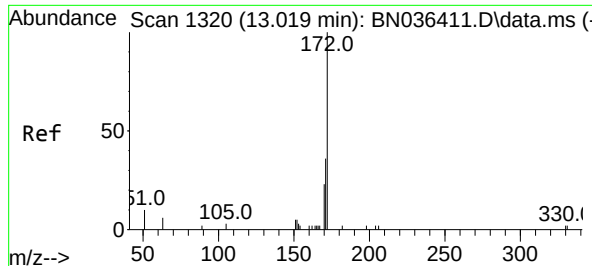
Tgt Ion:164 Resp: 3645
Ion Ratio Lower Upper
164 100
162 105.5 84.1 126.1
160 52.0 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 1.266 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:330 Resp: 2844
Ion Ratio Lower Upper
330 100
332 94.6 76.6 114.8
141 46.0 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 1.467 ng

RT: 13.008 min Scan# 1319

Delta R.T. -0.011 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

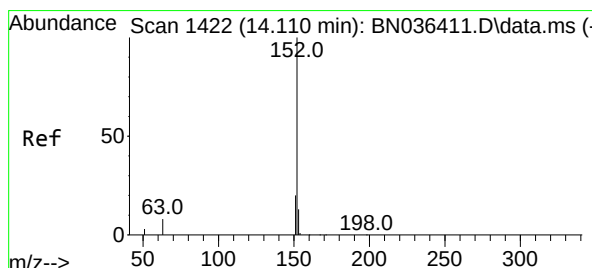
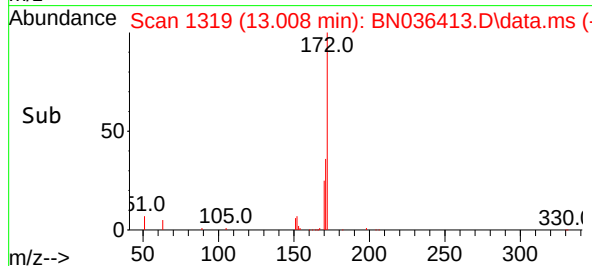
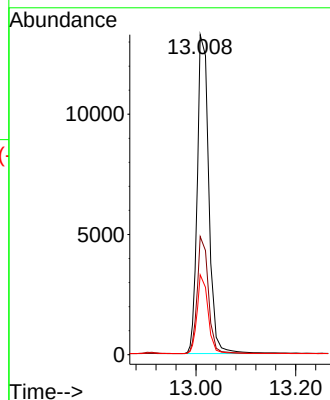
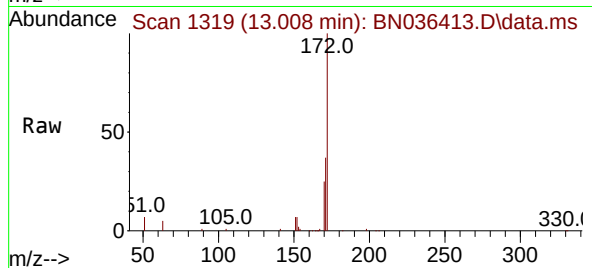
Tgt Ion:172 Resp: 22810

Ion Ratio Lower Upper

172 100

171 36.9 29.6 44.4

170 25.0 19.8 29.6



#16

Acenaphthylene

Concen: 1.499 ng

RT: 14.110 min Scan# 1422

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

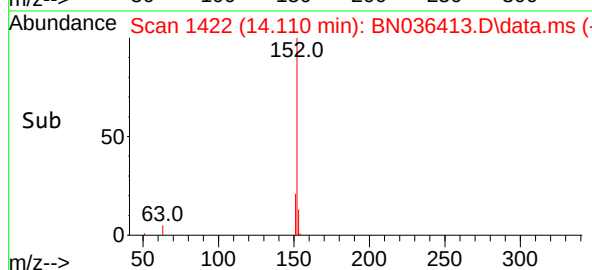
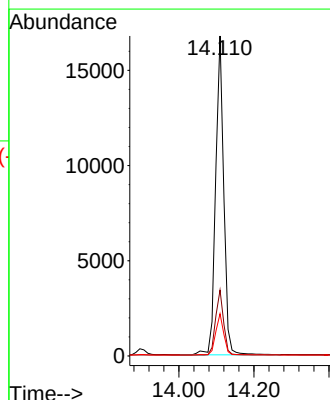
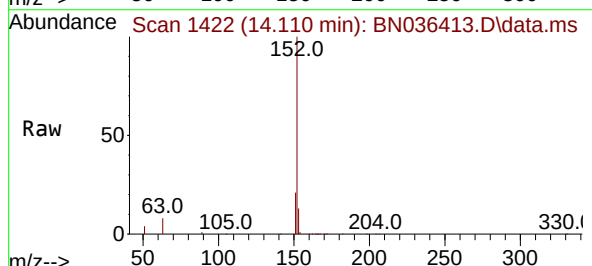
Tgt Ion:152 Resp: 25289

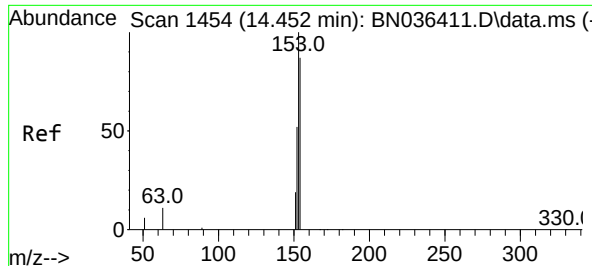
Ion Ratio Lower Upper

152 100

151 20.0 15.8 23.8

153 12.9 10.2 15.2

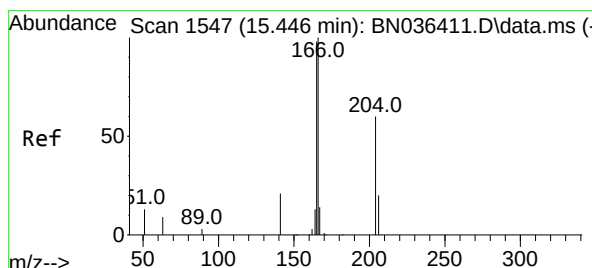
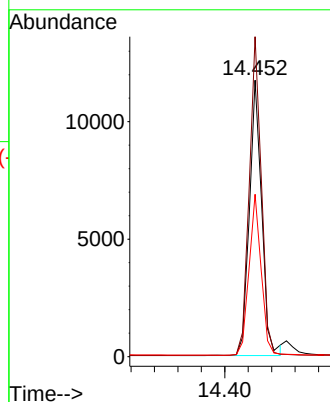
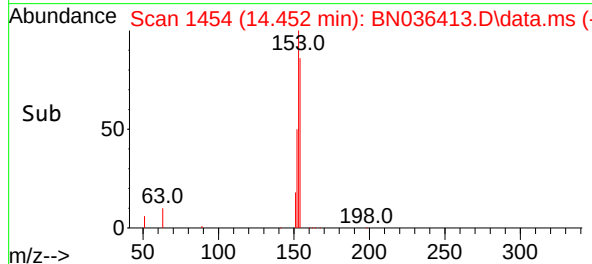
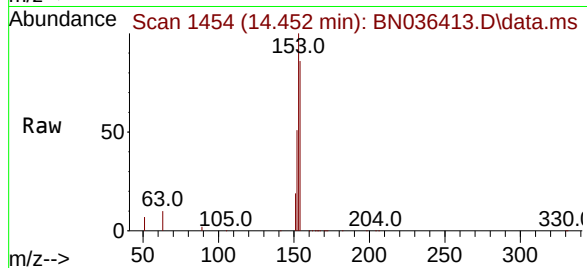




#17
Acenaphthene
Concen: 1.483 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

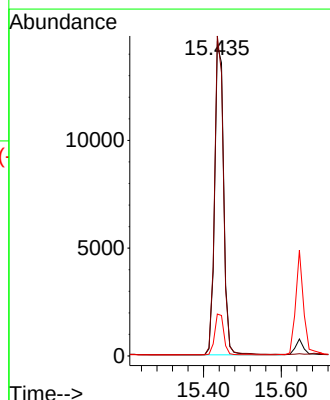
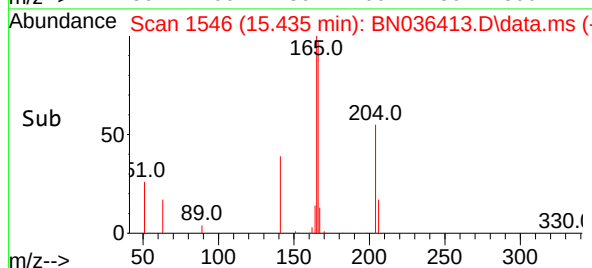
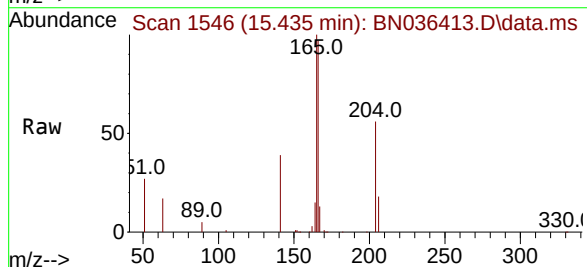
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

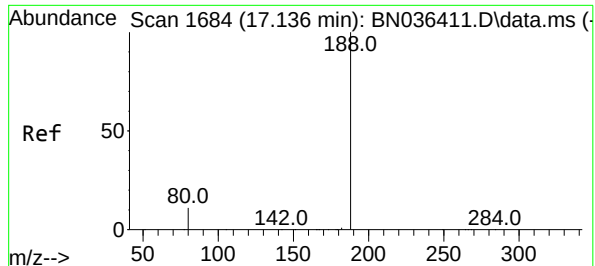
Tgt Ion:154 Resp: 17130
Ion Ratio Lower Upper
154 100
153 114.1 93.3 139.9
152 58.1 48.8 73.2



#18
Fluorene
Concen: 1.638 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:166 Resp: 24341
Ion Ratio Lower Upper
166 100
165 99.5 79.5 119.3
167 13.2 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

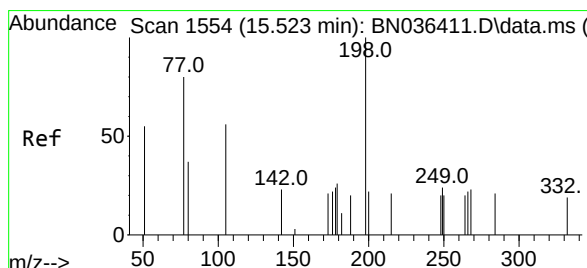
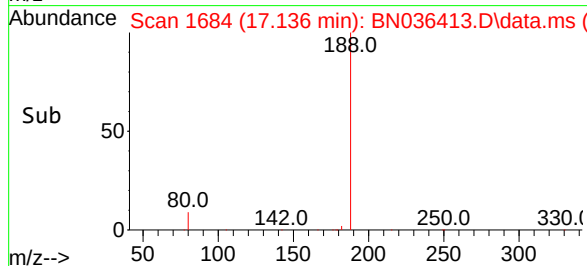
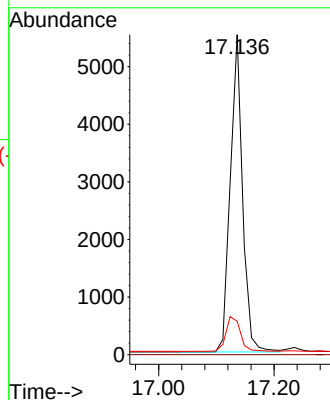
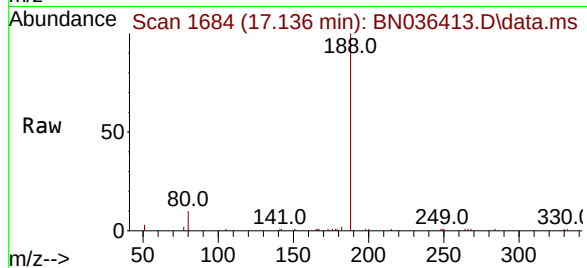
Tgt Ion:188 Resp: 8137

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: 1.497 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

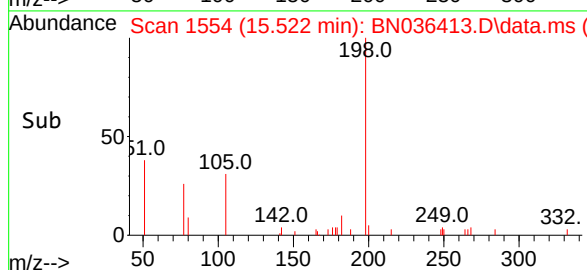
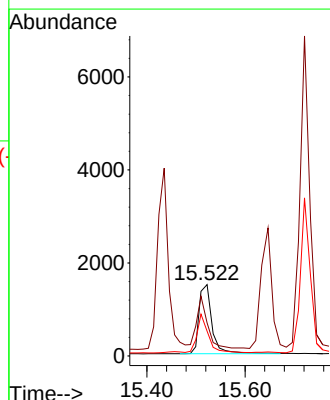
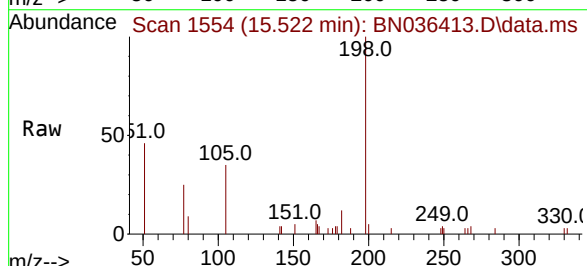
Tgt Ion:198 Resp: 2725

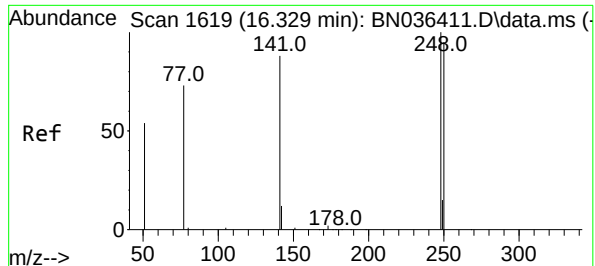
Ion Ratio Lower Upper

198 100

51 46.4 86.6 129.8#

105 34.9 57.5 86.3#

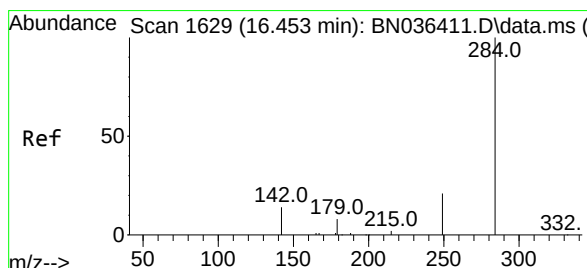
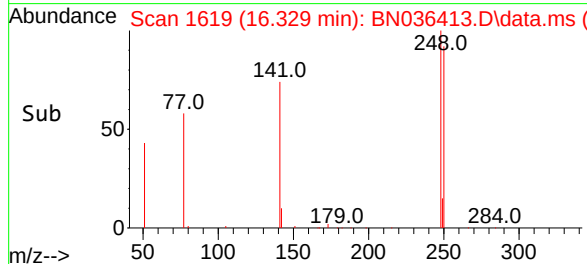
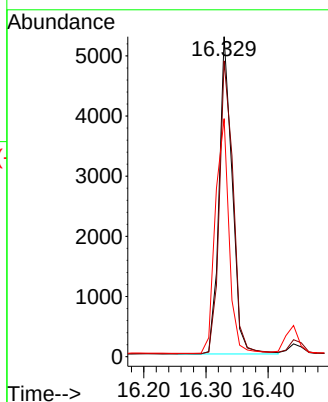
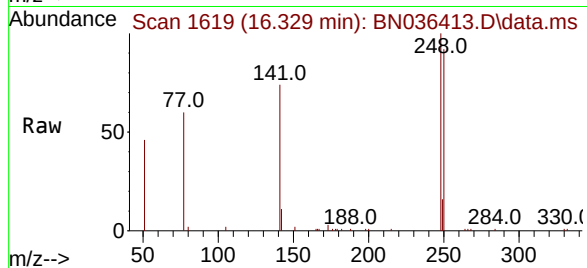




#21
4-Bromophenyl-phenylether
Concen: 1.379 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

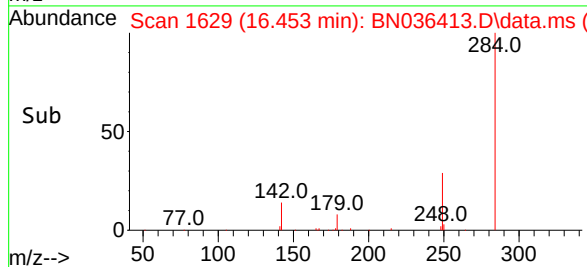
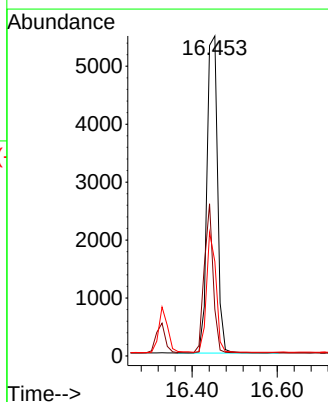
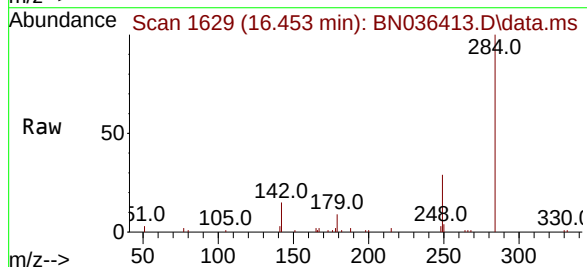
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

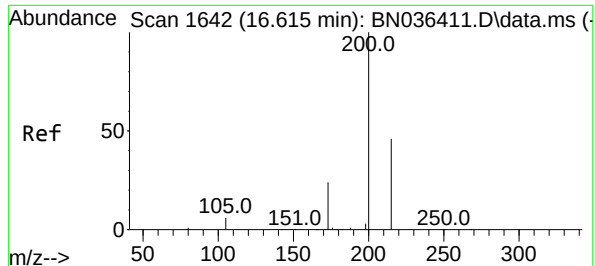
Tgt Ion:248 Resp: 7690
Ion Ratio Lower Upper
248 100
250 92.4 76.1 114.1
141 74.4 71.7 107.5



#22
Hexachlorobenzene
Concen: 1.292 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:284 Resp: 9401
Ion Ratio Lower Upper
284 100
142 39.9 33.4 50.0
249 34.3 28.6 43.0





#23

Atrazine

Concen: 1.541 ng

RT: 16.602 min Scan# 1641

Delta R.T. -0.012 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

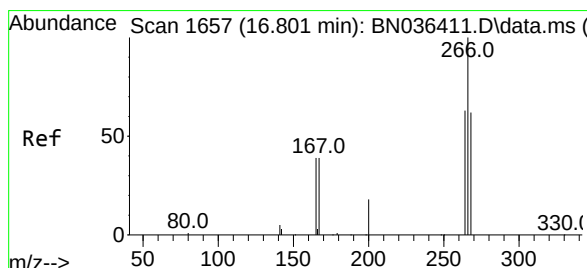
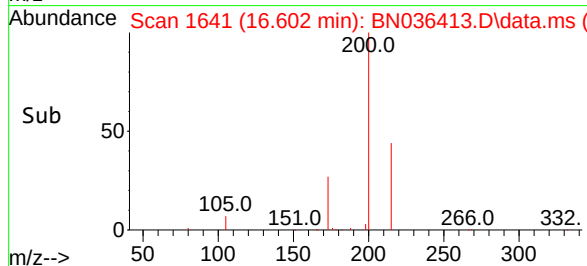
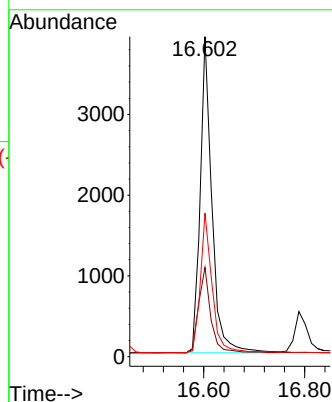
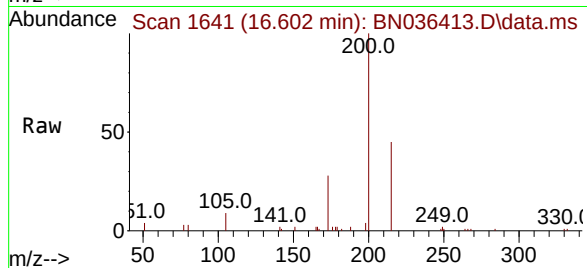
Tgt Ion:200 Resp: 6316

Ion Ratio Lower Upper

200 100

173 27.9 23.2 34.8

215 44.8 40.0 60.0



#24

Pentachlorophenol

Concen: 1.368 ng

RT: 16.789 min Scan# 1656

Delta R.T. -0.012 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

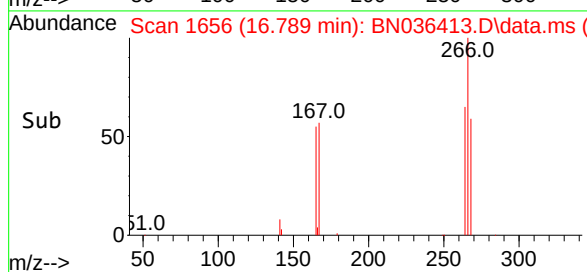
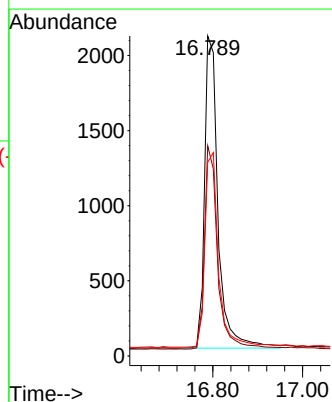
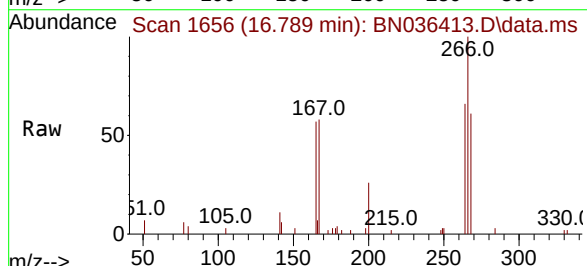
Tgt Ion:266 Resp: 4352

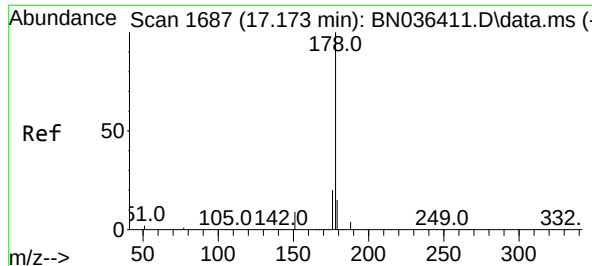
Ion Ratio Lower Upper

266 100

264 63.3 50.6 76.0

268 63.3 51.9 77.9

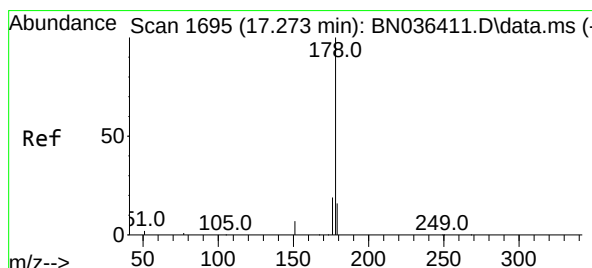
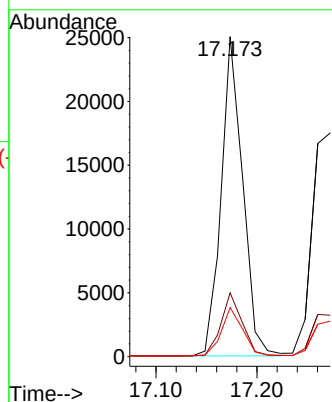
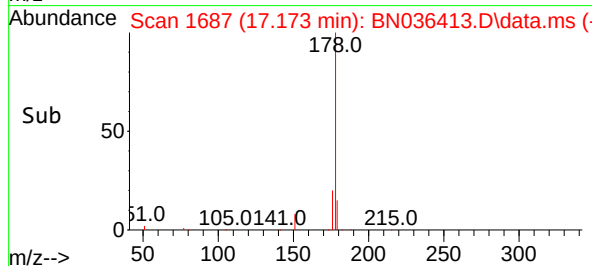
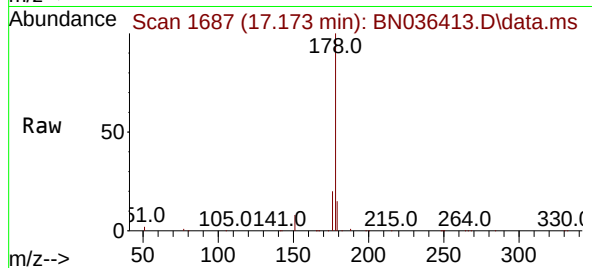




#25
Phenanthrene
Concen: 1.552 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

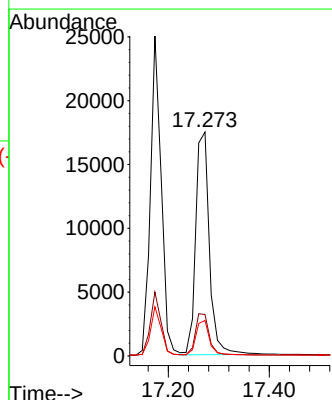
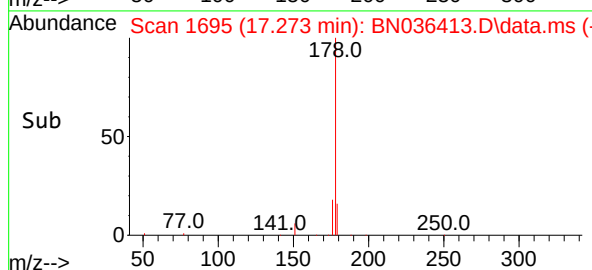
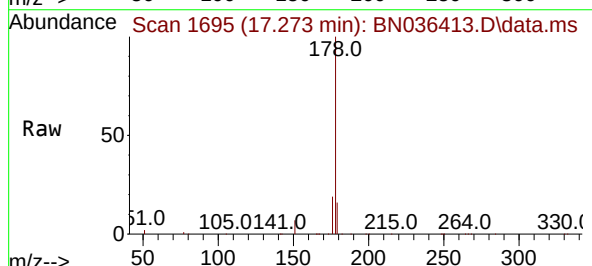
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

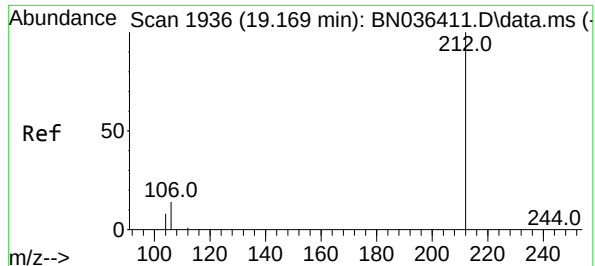
Tgt Ion:178 Resp: 37027
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 1.524 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:178 Resp: 33031
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.707 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

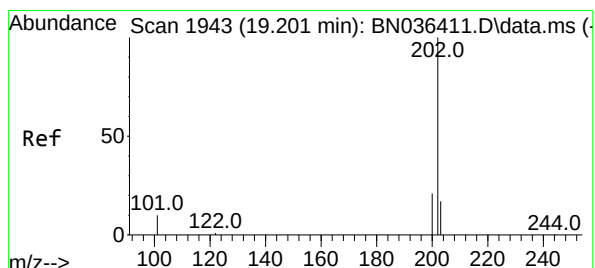
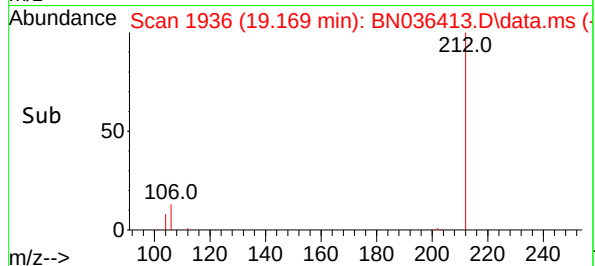
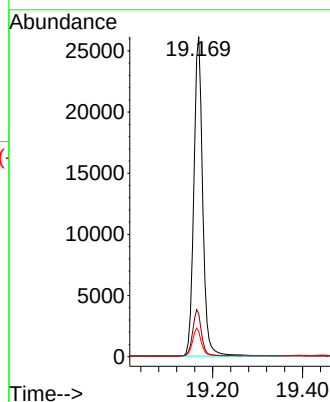
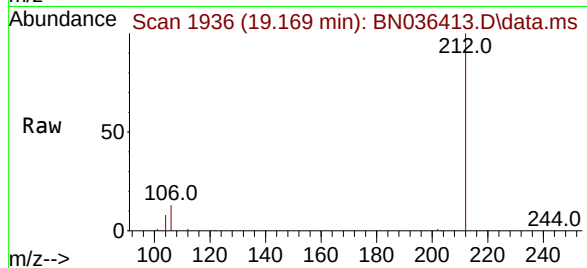
Tgt Ion:212 Resp: 35740

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.5 7.1 10.7



#28

Fluoranthene

Concen: 1.617 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

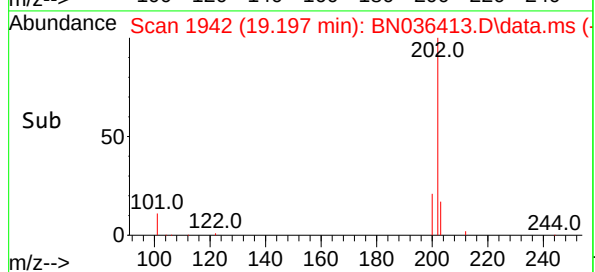
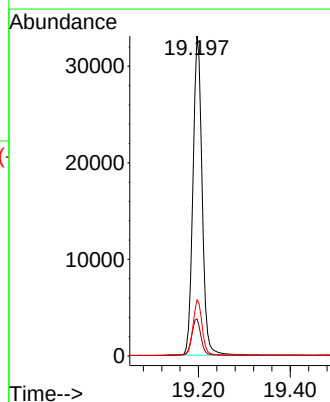
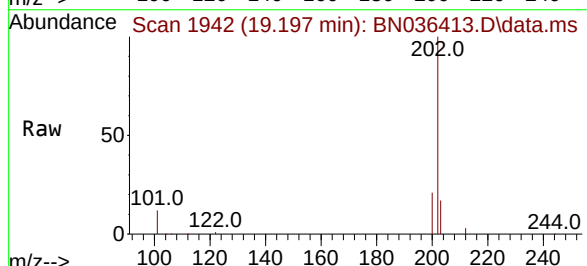
Tgt Ion:202 Resp: 45708

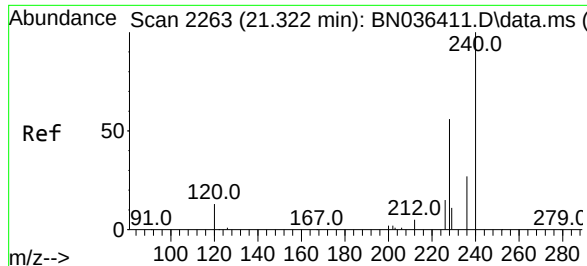
Ion Ratio Lower Upper

202 100

101 11.8 9.2 13.8

203 17.0 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

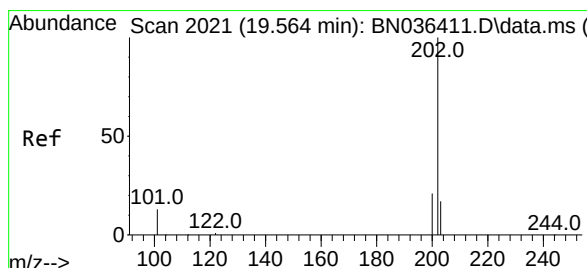
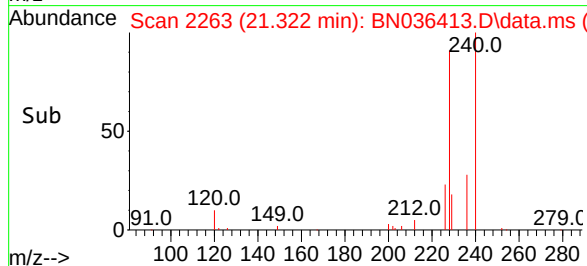
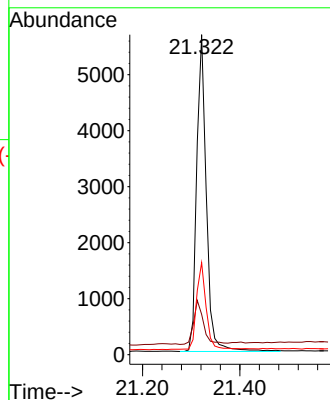
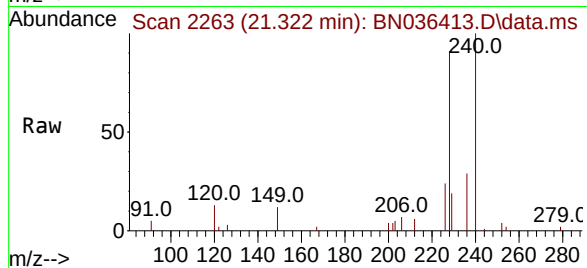
Tgt Ion:240 Resp: 7773

Ion Ratio Lower Upper

240 100

120 12.6 13.3 19.9#

236 28.8 23.0 34.6



#30

Pyrene

Concen: 1.489 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

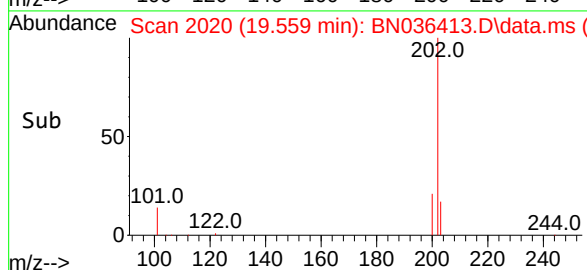
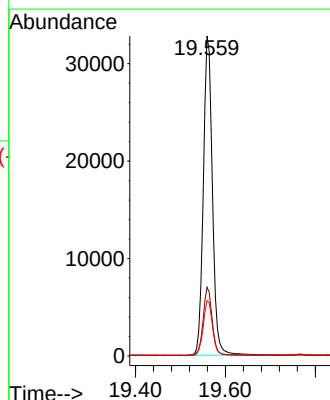
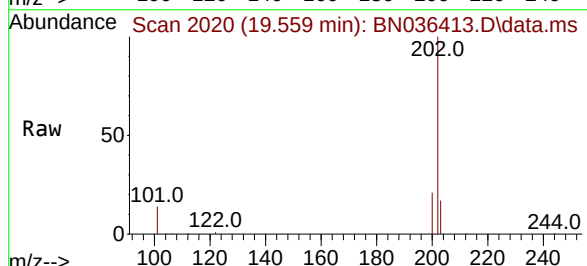
Tgt Ion:202 Resp: 46256

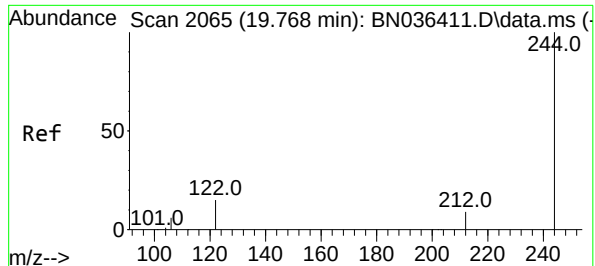
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.9 20.9

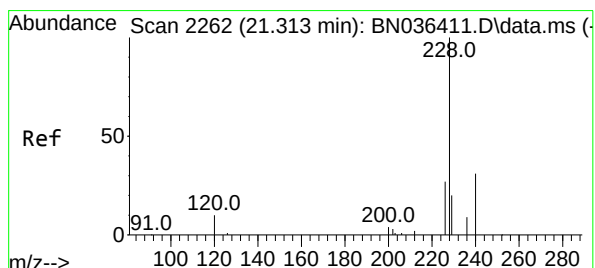
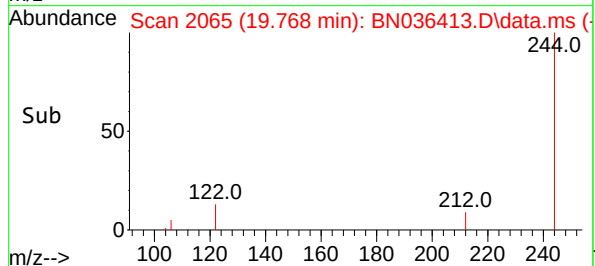
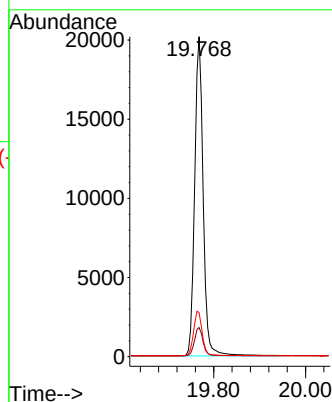
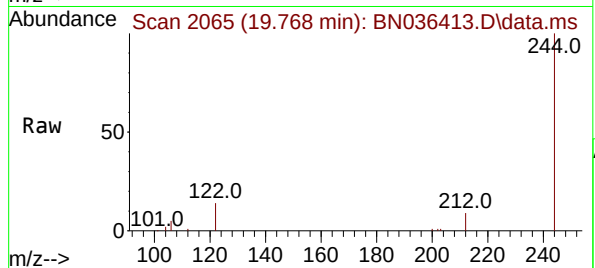




#31
Terphenyl-d14
Concen: 1.611 ng
RT: 19.768 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

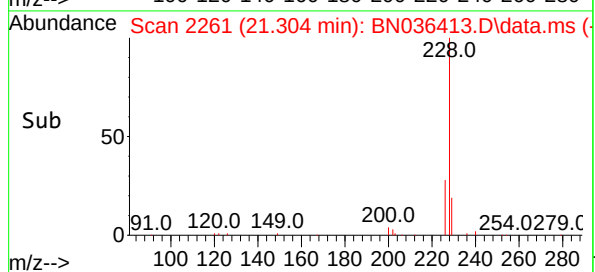
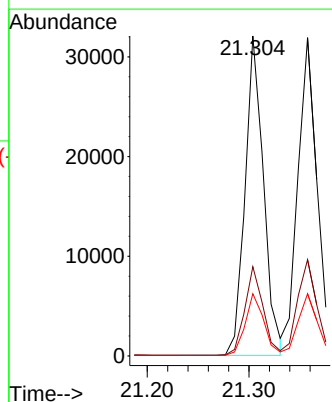
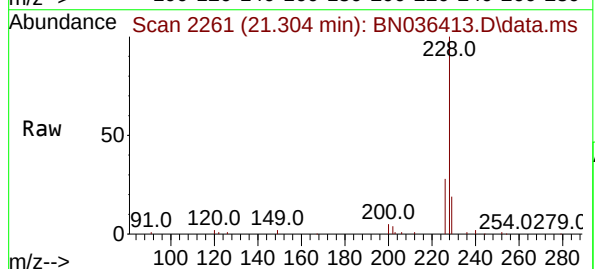
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

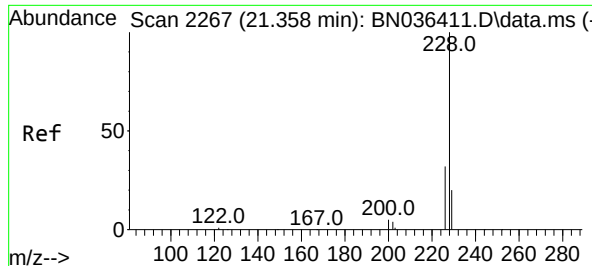
Tgt Ion:244 Resp: 25927
Ion Ratio Lower Upper
244 100
212 9.1 8.1 12.1
122 13.8 12.8 19.2



#32
Benzo(a)anthracene
Concen: 1.463 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036413.D
Acq: 10 Feb 2025 14:48

Tgt Ion:228 Resp: 40416
Ion Ratio Lower Upper
228 100
226 27.9 22.2 33.2
229 19.5 16.5 24.7





#33

Chrysene

Concen: 1.542 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

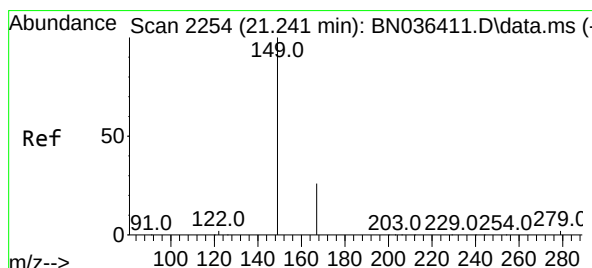
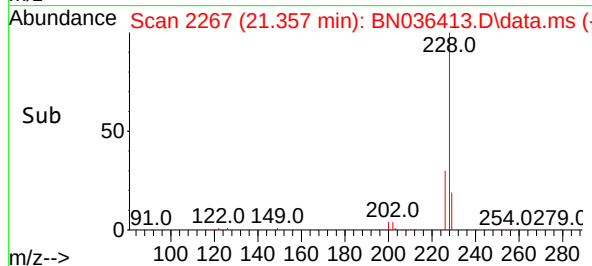
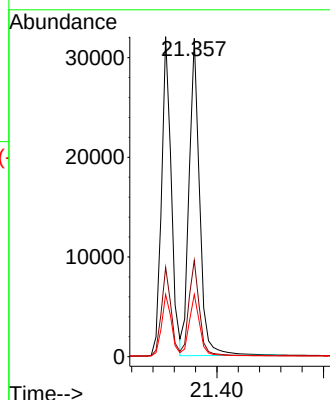
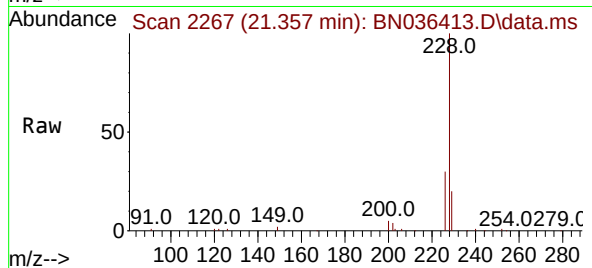
Tgt Ion:228 Resp: 43661

Ion Ratio Lower Upper

228 100

226 30.3 25.5 38.3

229 19.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.538 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

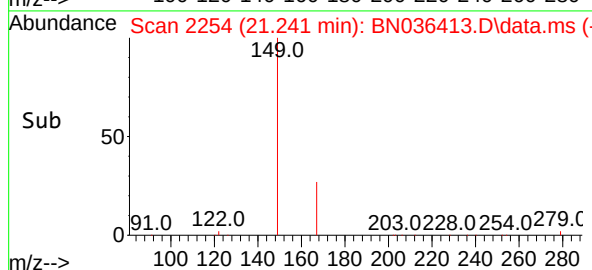
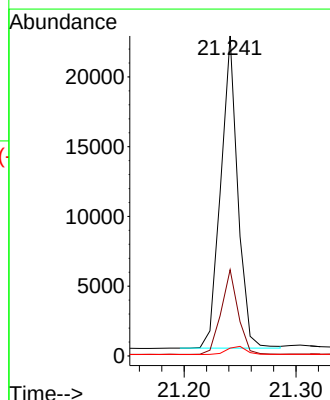
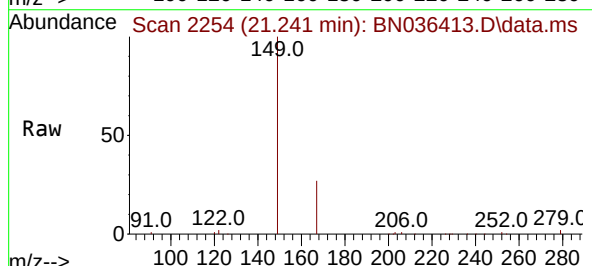
Tgt Ion:149 Resp: 23672

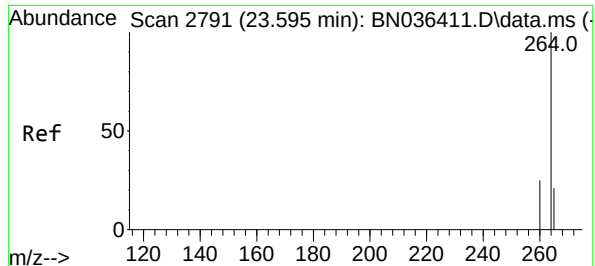
Ion Ratio Lower Upper

149 100

167 26.9 21.2 31.8

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036413.D

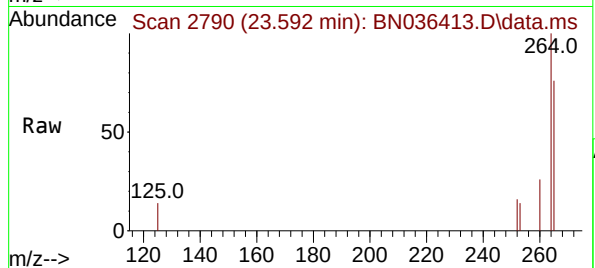
Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



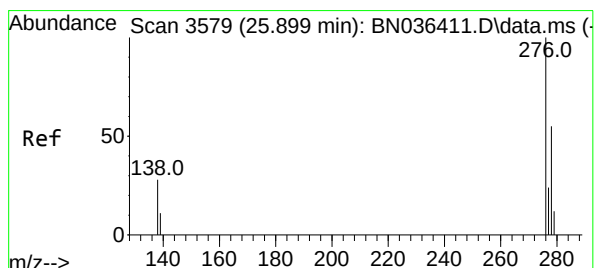
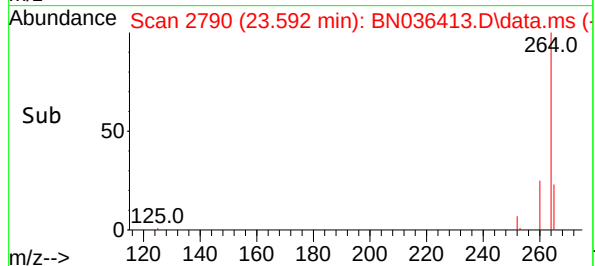
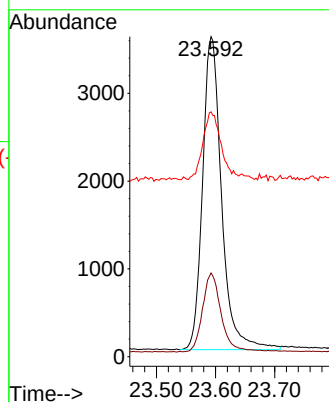
Tgt Ion:264 Resp: 7967

Ion Ratio Lower Upper

264 100

260 26.1 20.9 31.3

265 76.5 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.472 ng

RT: 25.890 min Scan# 3576

Delta R.T. -0.009 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

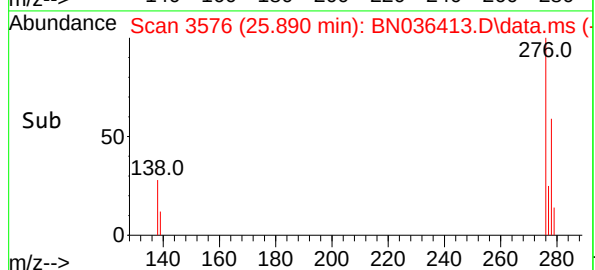
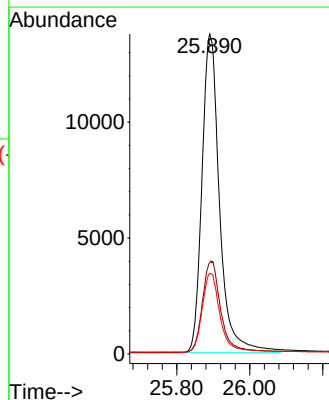
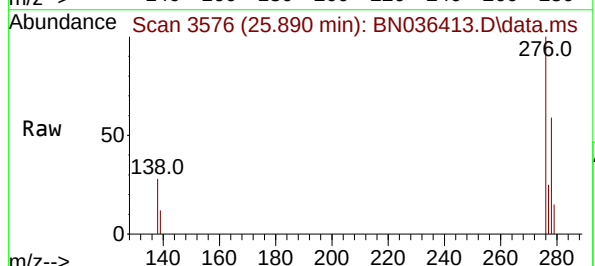
Tgt Ion:276 Resp: 46083

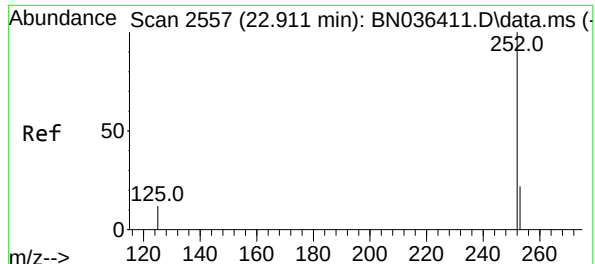
Ion Ratio Lower Upper

276 100

138 29.4 22.2 33.2

277 25.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 1.502 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

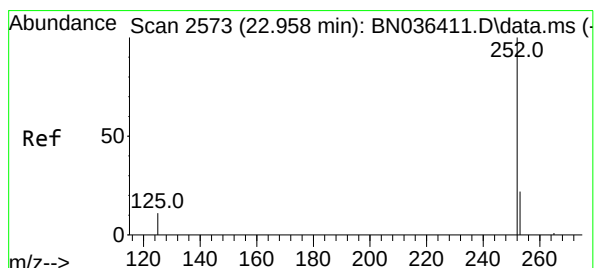
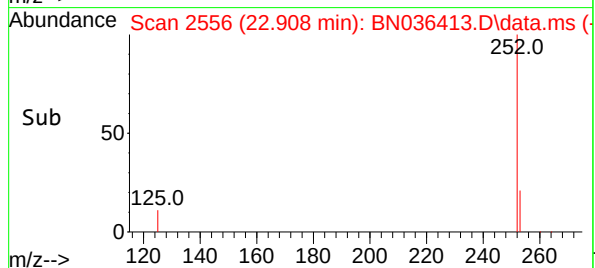
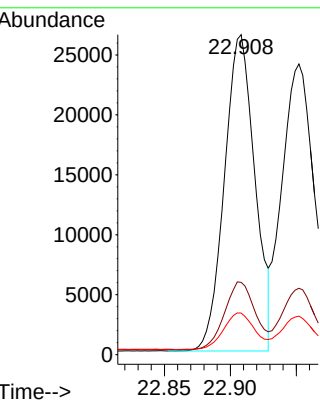
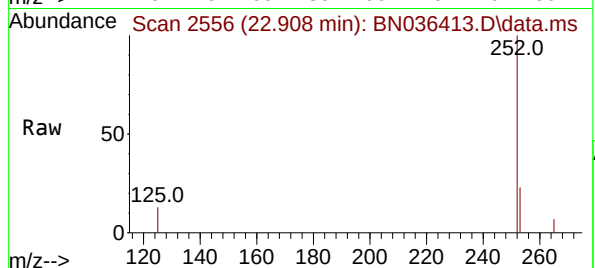
Tgt Ion:252 Resp: 42491

Ion Ratio Lower Upper

252 100

253 22.6 21.9 32.9

125 13.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 1.489 ng

RT: 22.952 min Scan# 2571

Delta R.T. -0.006 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

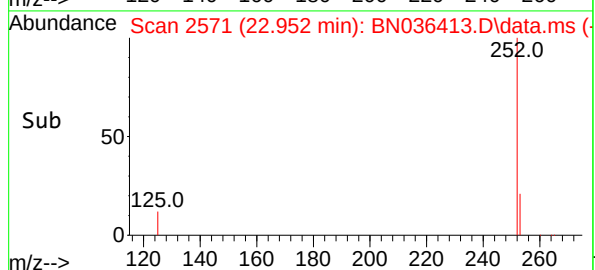
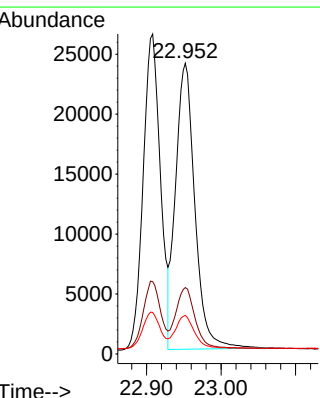
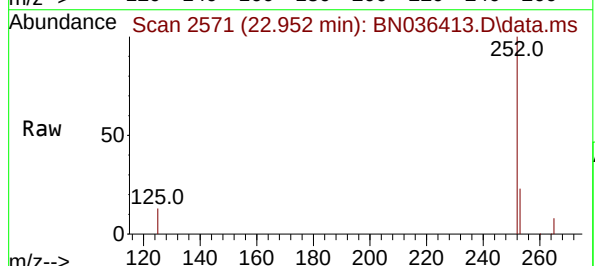
Tgt Ion:252 Resp: 42933

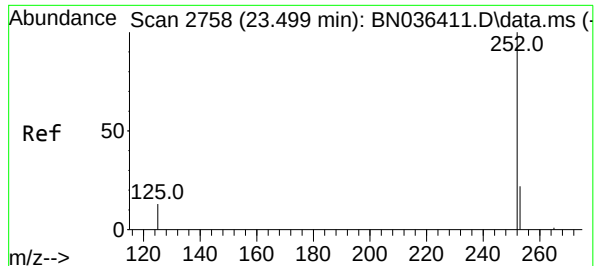
Ion Ratio Lower Upper

252 100

253 22.8 22.2 33.4

125 13.2 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 1.503 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

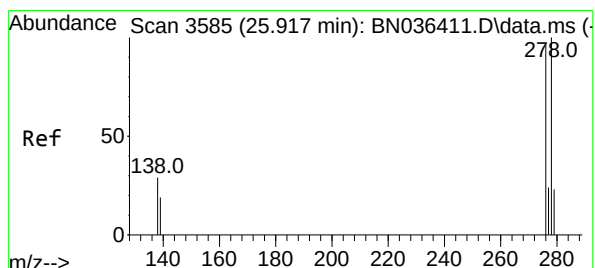
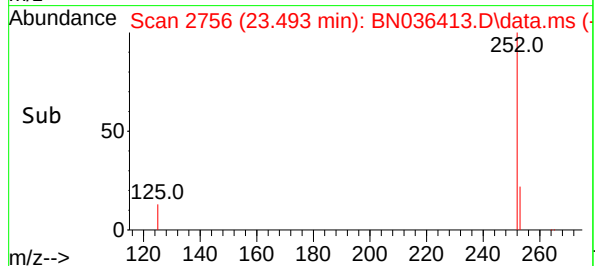
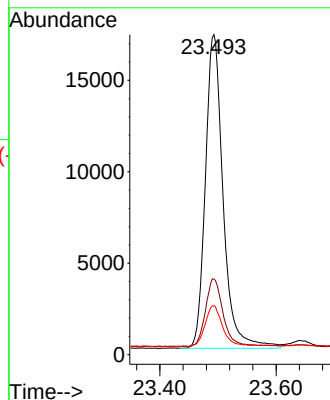
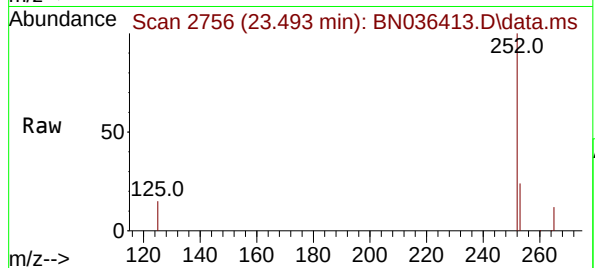
Tgt Ion:252 Resp: 36490

Ion Ratio Lower Upper

252 100

253 23.7 24.4 36.6#

125 15.3 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.478 ng

RT: 25.905 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BN036413.D

Acq: 10 Feb 2025 14:48

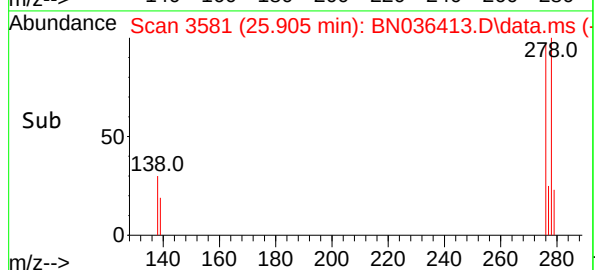
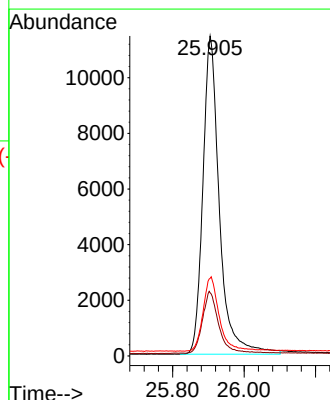
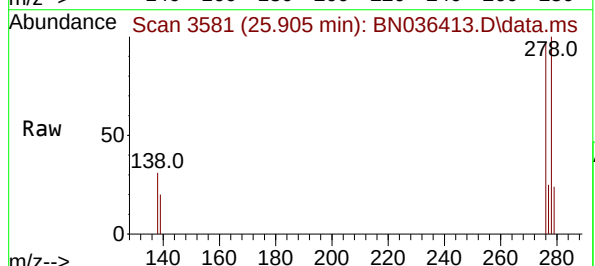
Tgt Ion:278 Resp: 36765

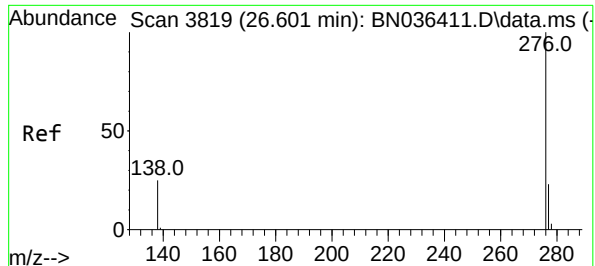
Ion Ratio Lower Upper

278 100

139 19.7 18.5 27.7

279 24.3 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 1.482 ng

RT: 26.592 min Scan# 3816

Delta R.T. -0.009 min

Lab File: BN036413.D

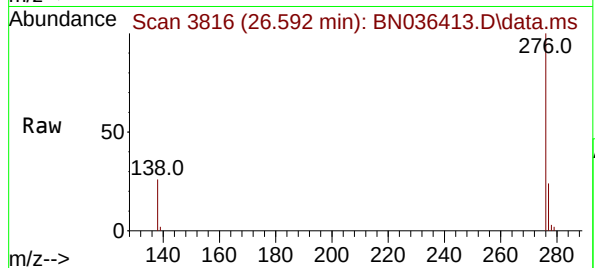
Acq: 10 Feb 2025 14:48

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



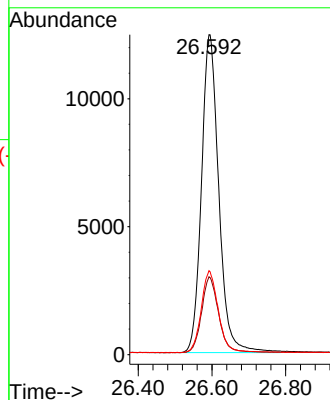
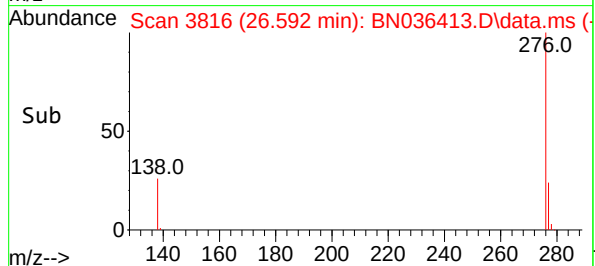
Tgt Ion:276 Resp: 40441

Ion Ratio Lower Upper

276 100

277 24.3 20.7 31.1

138 26.3 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036414.D
 Acq On : 10 Feb 2025 15:24
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

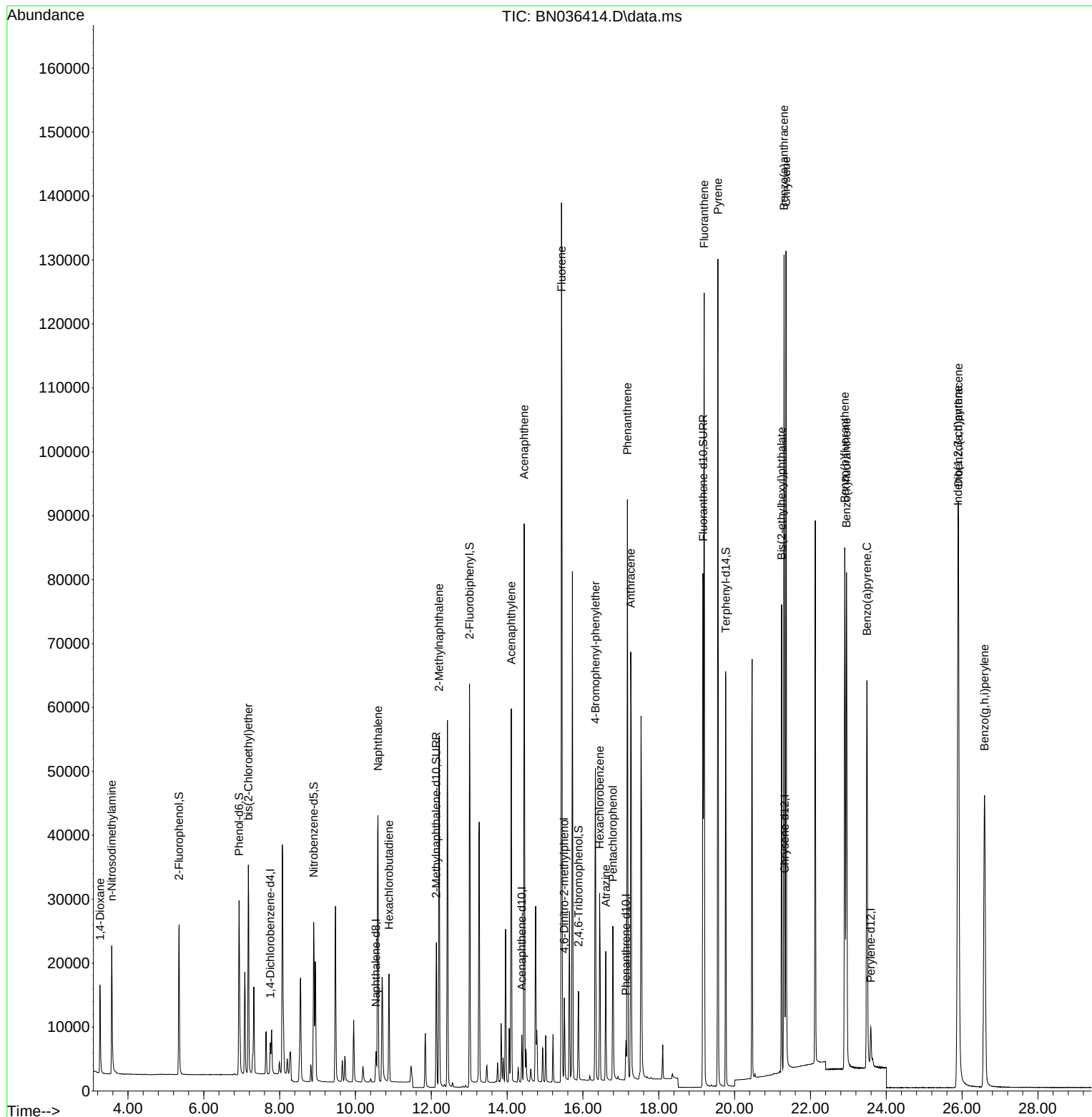
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2264	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	5888	0.400	ng	# 0.00
13) Acenaphthene-d10	14.388	164	3870	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	8443	0.400	ng	0.00
29) Chrysene-d12	21.322	240	8450	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	8327	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	18096	3.140	ng	0.00
5) Phenol-d6	6.930	99	22949	3.414	ng	0.00
8) Nitrobenzene-d5	8.897	82	19636	3.579	ng	-0.01
11) 2-Methylnaphthalene-d10	12.131	152	31489	3.909	ng	-0.01
14) 2,4,6-Tribromophenol	15.883	330	7004	2.937	ng	0.00
15) 2-Fluorobiphenyl	13.009	172	53807	3.260	ng	-0.01
27) Fluoranthene-d10	19.169	212	84968	3.911	ng	0.00
31) Terphenyl-d14	19.768	244	61695	3.526	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	7842	3.133	ng	97
3) n-Nitrosodimethylamine	3.572	42	13931	3.098	ng	# 98
6) bis(2-Chloroethyl)ether	7.176	93	22184	3.968	ng	99
9) Naphthalene	10.594	128	55857	3.321	ng	97
10) Hexachlorobutadiene	10.883	225	13261	2.516	ng	# 100
12) 2-Methylnaphthalene	12.207	142	38458	3.640	ng	98
16) Acenaphthylene	14.110	152	60797	3.395	ng	100
17) Acenaphthene	14.452	154	39414	3.214	ng	98
18) Fluorene	15.435	166	56634	3.589	ng	100
20) 4,6-Dinitro-2-methylph...	15.510	198	7256	3.841	ng	# 74
21) 4-Bromophenyl-phenylether	16.329	248	17824	3.081	ng	# 86
22) Hexachlorobenzene	16.441	284	21378	2.832	ng	97
23) Atrazine	16.602	200	15456	3.634	ng	92
24) Pentachlorophenol	16.789	266	11492	3.481	ng	100
25) Phenanthrene	17.173	178	85950	3.473	ng	99
26) Anthracene	17.260	178	78802	3.504	ng	99
28) Fluoranthene	19.197	202	108527	3.700	ng	99
30) Pyrene	19.559	202	110153	3.262	ng	100
32) Benzo(a)anthracene	21.304	228	99445	3.312	ng	99
33) Chrysene	21.358	228	103234	3.354	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	58234	3.480	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	108596	3.320	ng	97
37) Benzo(b)fluoranthene	22.905	252	101833	3.445	ng	# 88
38) Benzo(k)fluoranthene	22.952	252	102040	3.385	ng	# 88
39) Benzo(a)pyrene	23.490	252	87191	3.437	ng	# 84
40) Dibenzo(a,h)anthracene	25.905	278	86887	3.343	ng	# 90
41) Benzo(g,h,i)perylene	26.592	276	93260	3.269	ng	97

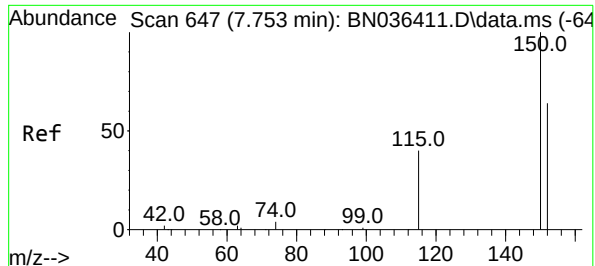
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036414.D
Acq On : 10 Feb 2025 15:24
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Feb 11 00:37:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

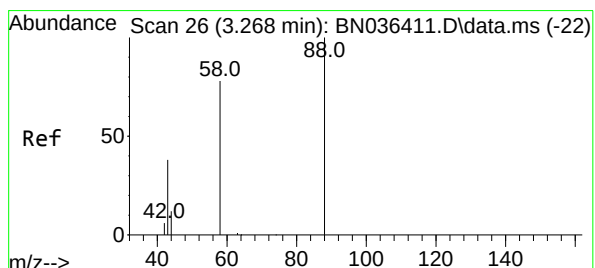
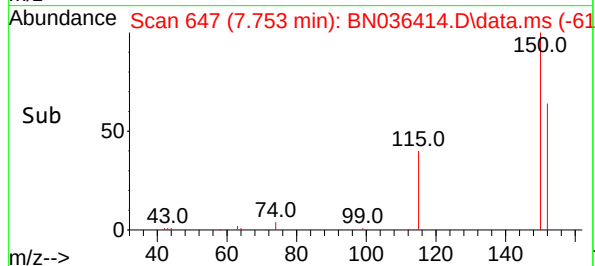
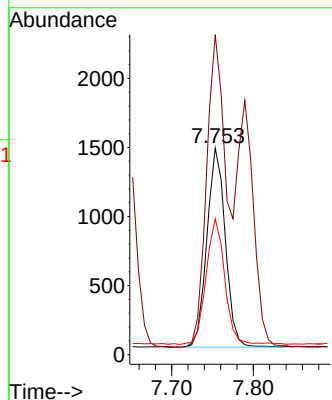
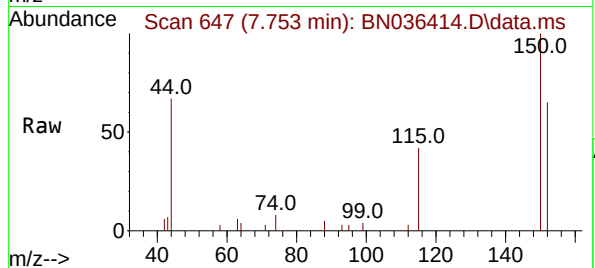




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

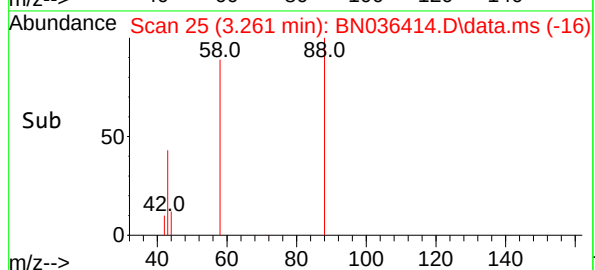
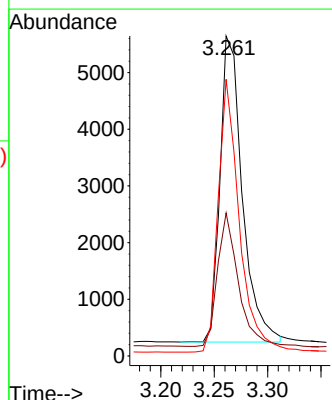
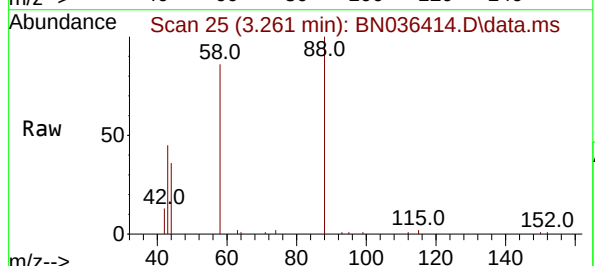
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

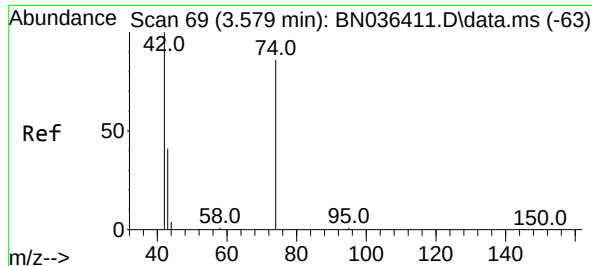
Tgt Ion:152 Resp: 2264
Ion Ratio Lower Upper
152 100
150 154.9 123.7 185.5
115 65.7 52.5 78.7



#2
1,4-Dioxane
Concen: 3.133 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 88 Resp: 7842
Ion Ratio Lower Upper
88 100
43 40.6 33.7 50.5
58 83.7 68.9 103.3

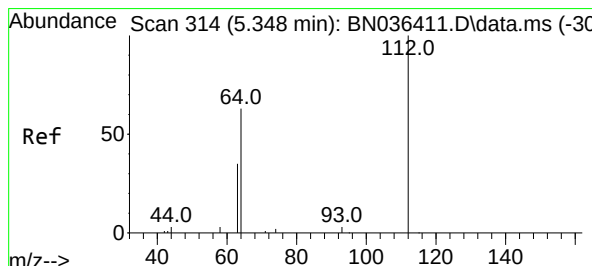
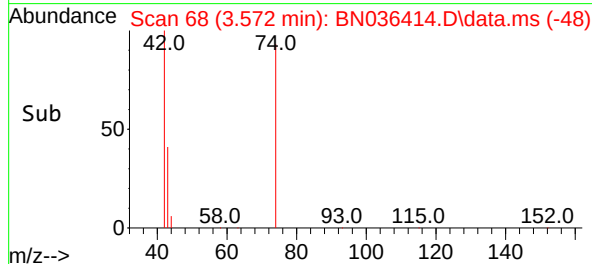
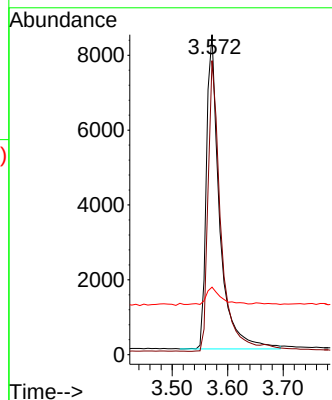
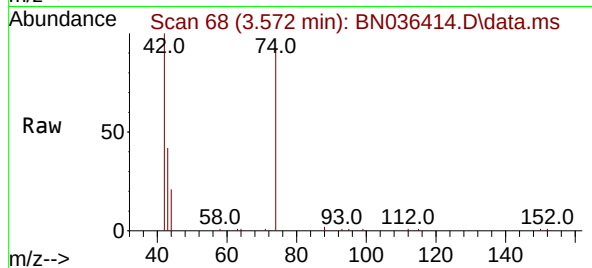




#3
n-Nitrosodimethylamine
Concen: 3.098 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

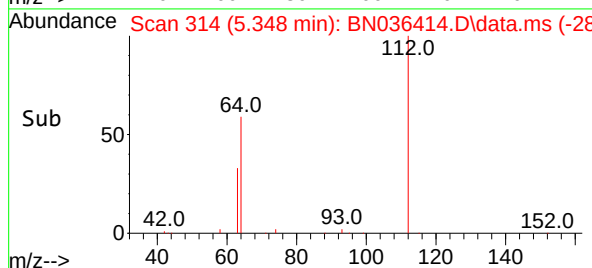
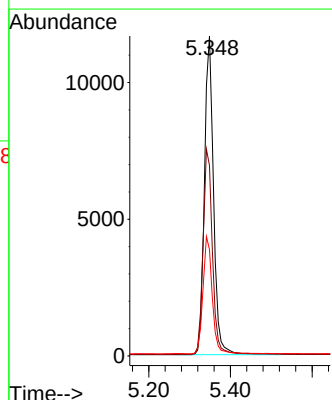
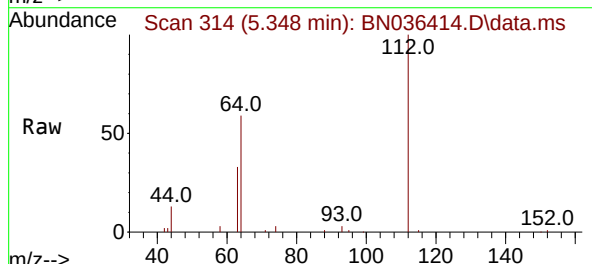
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BNA_N
ClientSampleId :
SSTDICC3.2

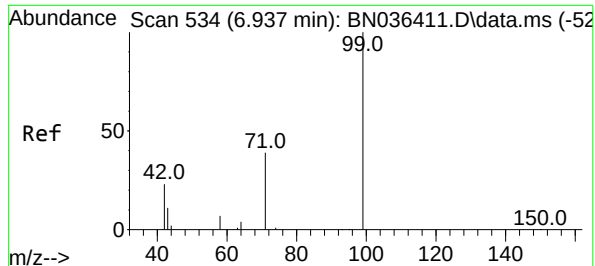
Tgt Ion: 42 Resp: 13931
Ion Ratio Lower Upper
42 100
74 91.3 71.8 107.6
44 6.4 7.8 11.6#



#4
2-Fluorophenol
Concen: 3.140 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 112 Resp: 18096
Ion Ratio Lower Upper
112 100
64 66.2 53.4 80.0
63 36.9 30.3 45.5

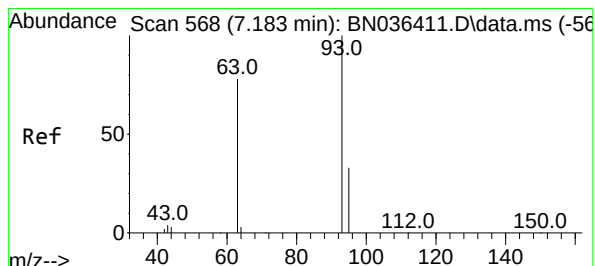
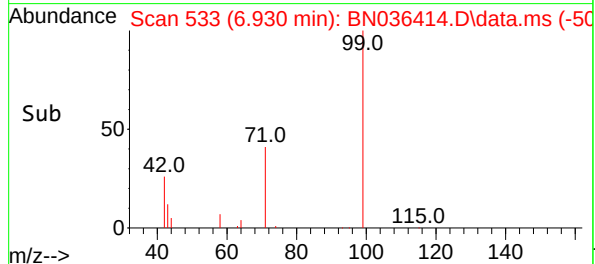
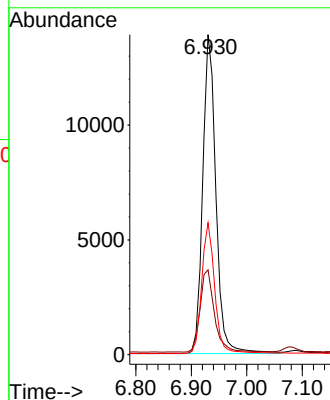
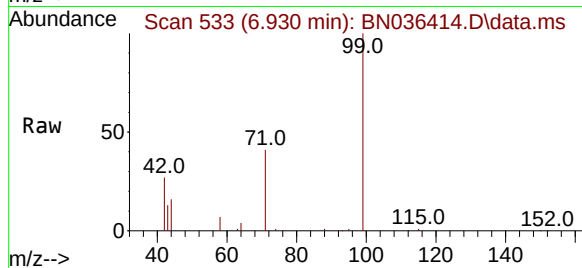




#5
Phenol-d6
Concen: 3.414 ng
RT: 6.930 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

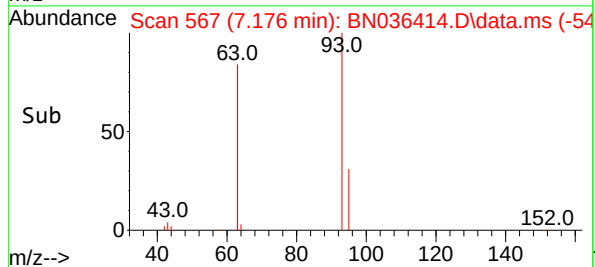
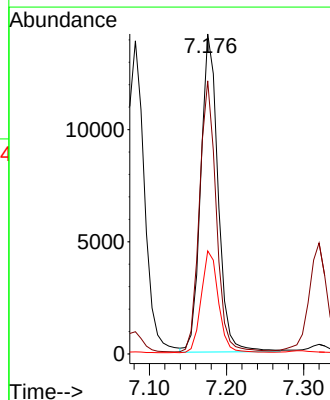
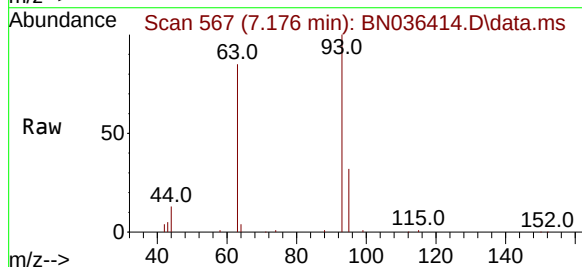
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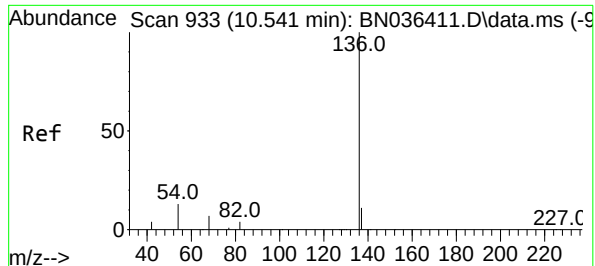
Tgt Ion: 99 Resp: 22949
Ion Ratio Lower Upper
99 100
42 28.0 21.7 32.5
71 40.5 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 3.968 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion: 93 Resp: 22184
Ion Ratio Lower Upper
93 100
63 82.3 66.3 99.5
95 31.7 26.2 39.4

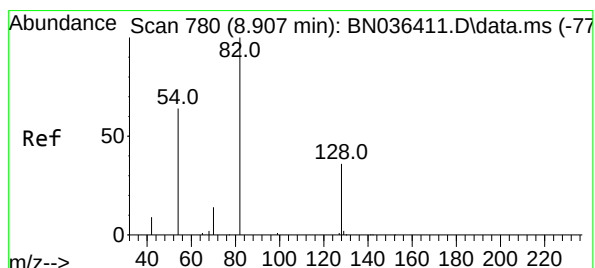
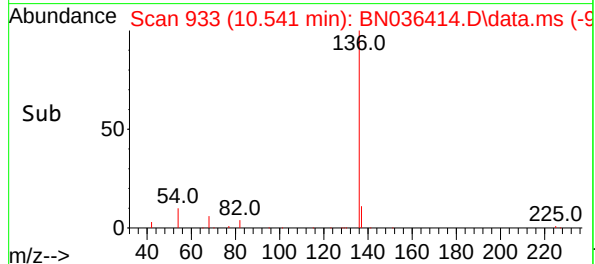
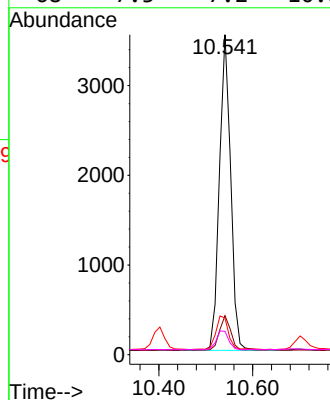
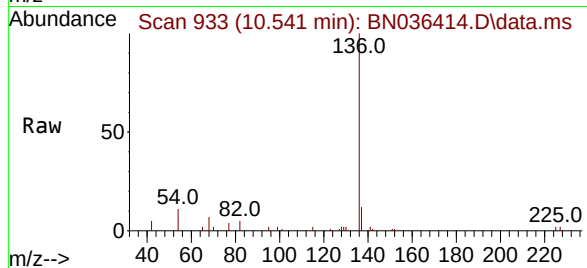




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

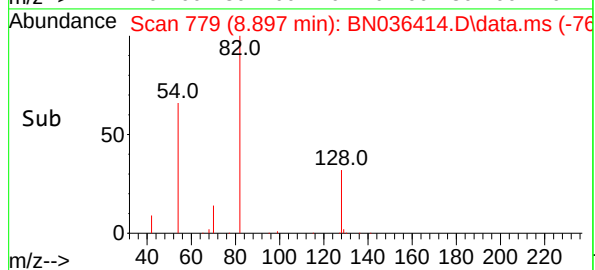
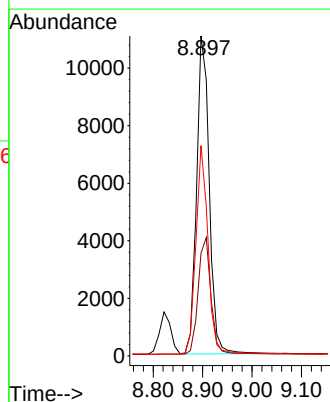
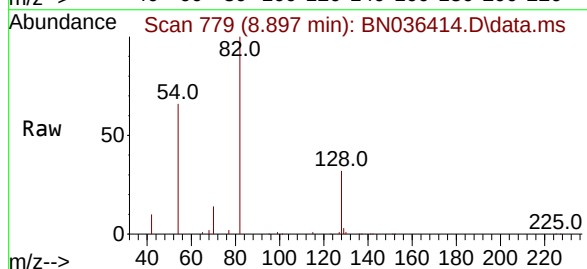
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

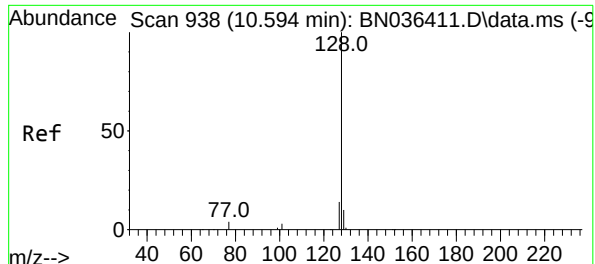
Tgt Ion:	136	Resp:	5888
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.1	15.1
54	11.4	11.8	17.6#
68	7.3	7.2	10.8



#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:	82	Resp:	19636
Ion	Ratio	Lower	Upper
82	100		
128	32.1	31.9	47.9
54	65.7	53.1	79.7

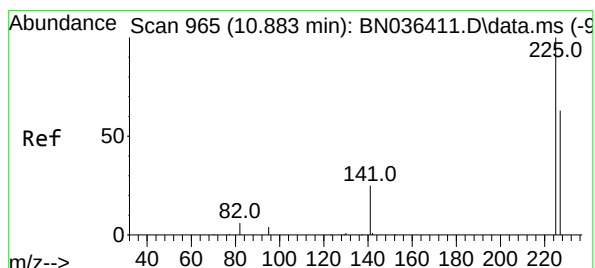
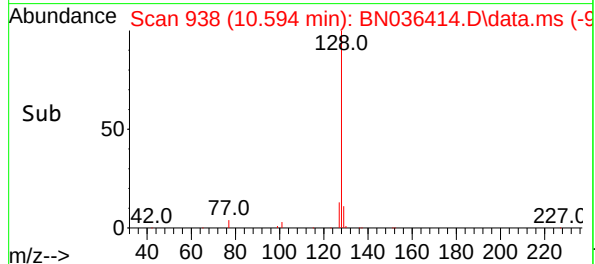
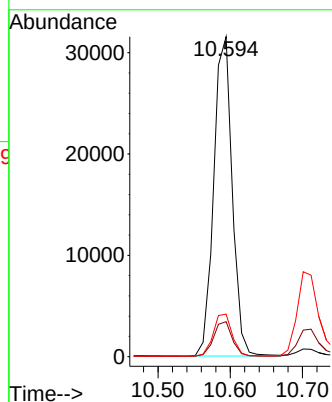
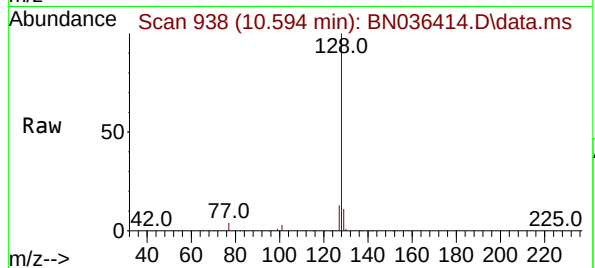




#9
Naphthalene
Concen: 3.321 ng
RT: 10.594 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

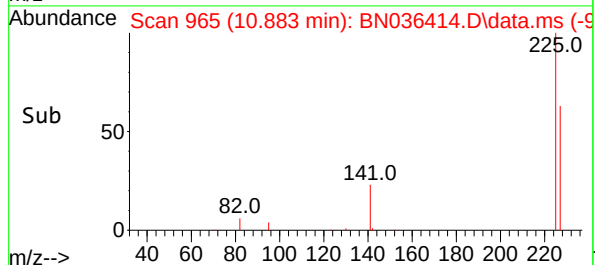
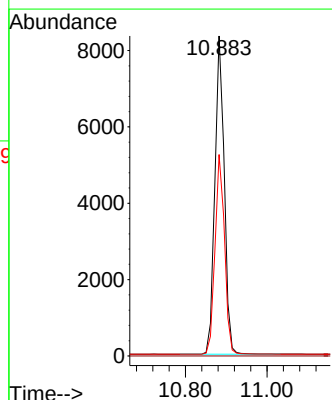
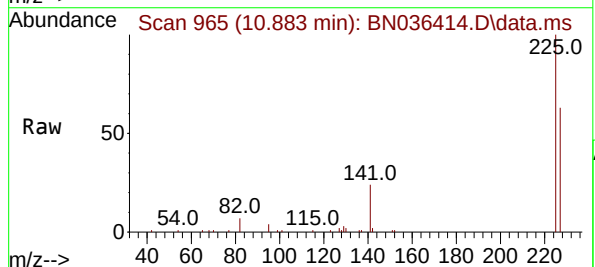
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

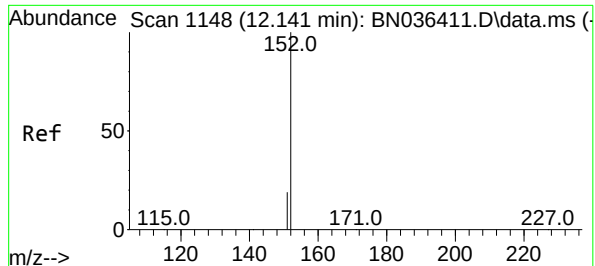
Tgt Ion:128 Resp: 55857
Ion Ratio Lower Upper
128 100
129 11.0 9.6 14.4
127 13.3 12.0 18.0



#10
Hexachlorobutadiene
Concen: 2.516 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:225 Resp: 13261
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.9 76.3

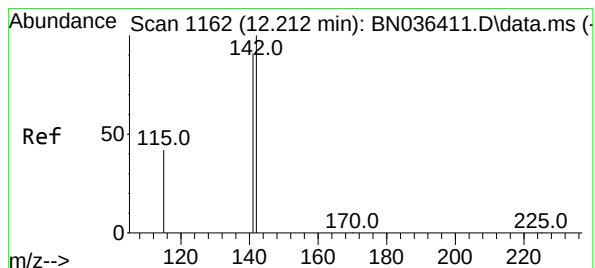
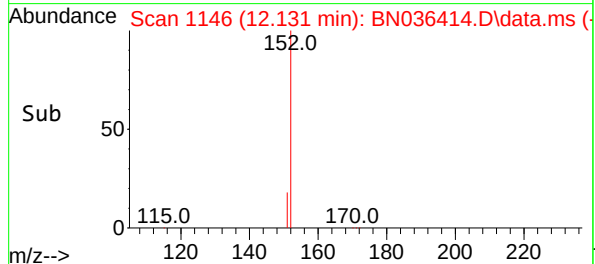
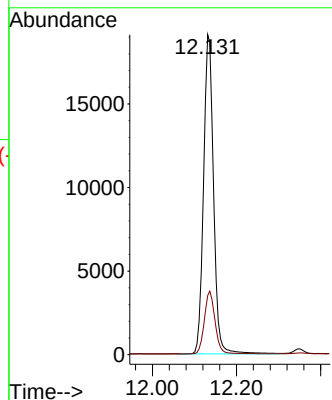
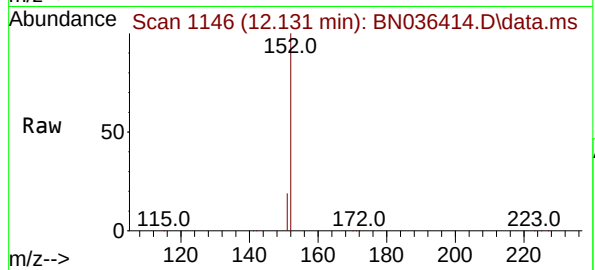




#11
2-Methylnaphthalene-d10
Concen: 3.909 ng
RT: 12.131 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

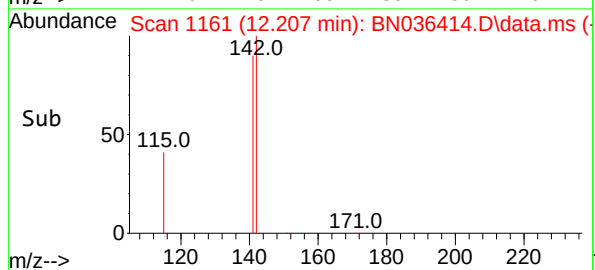
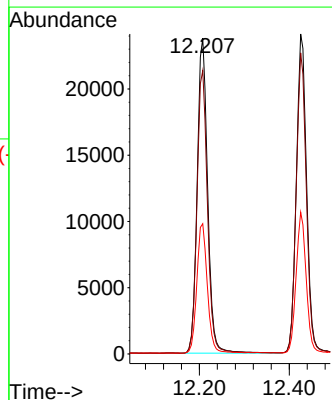
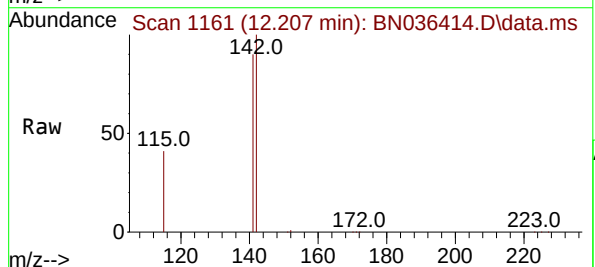
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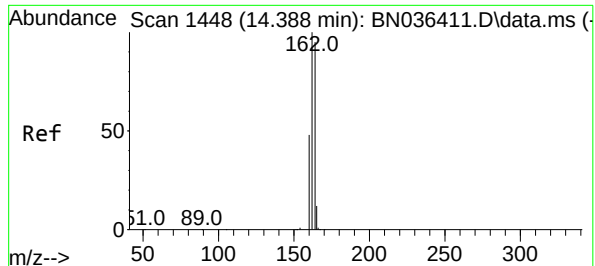
Tgt Ion:152 Resp: 31489
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 3.640 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:142 Resp: 38458
Ion Ratio Lower Upper
142 100
141 89.8 72.8 109.2
115 41.3 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.388 min Scan# 1448

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

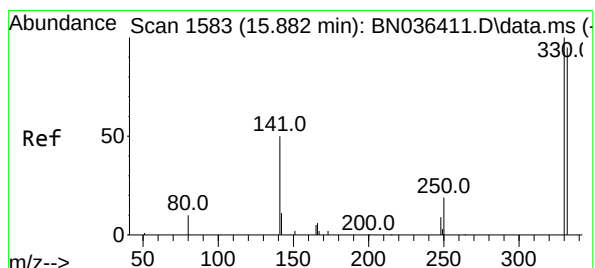
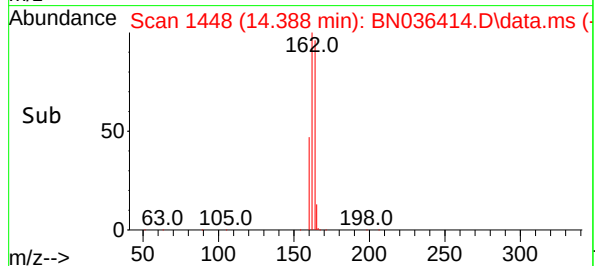
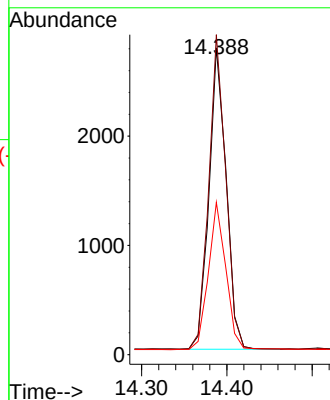
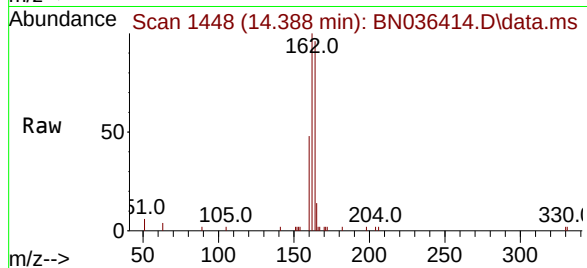
Tgt Ion:164 Resp: 3870

Ion Ratio Lower Upper

164 100

162 104.3 84.1 126.1

160 49.6 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 2.937 ng

RT: 15.883 min Scan# 1583

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

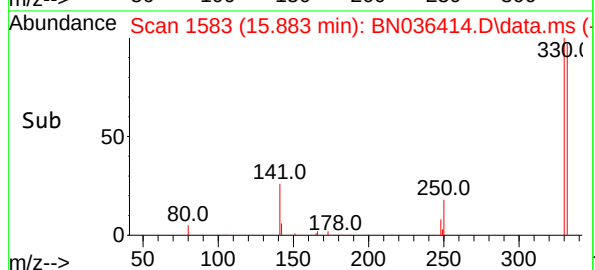
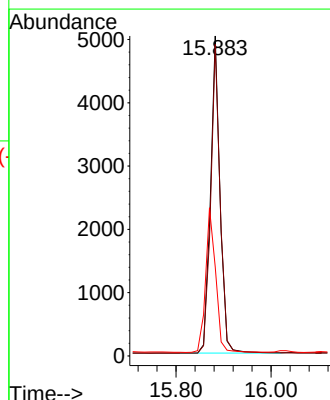
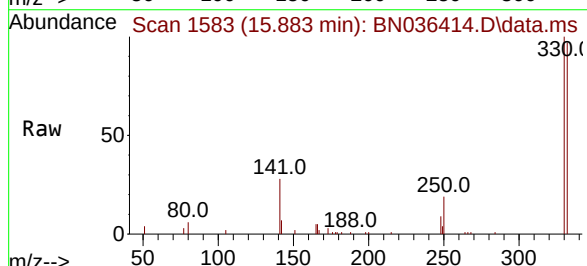
Tgt Ion:330 Resp: 7004

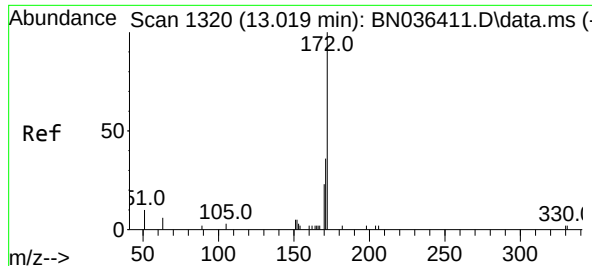
Ion Ratio Lower Upper

330 100

332 96.5 76.6 114.8

141 48.2 37.8 56.8

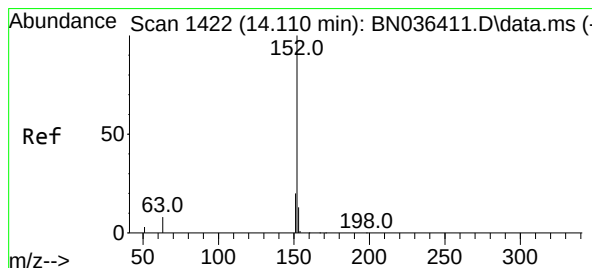
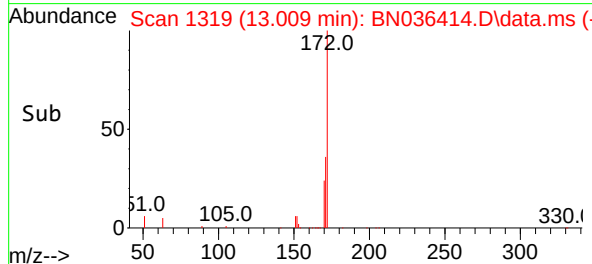
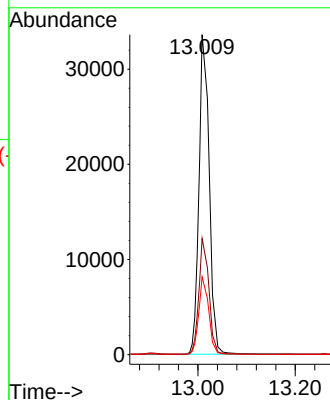
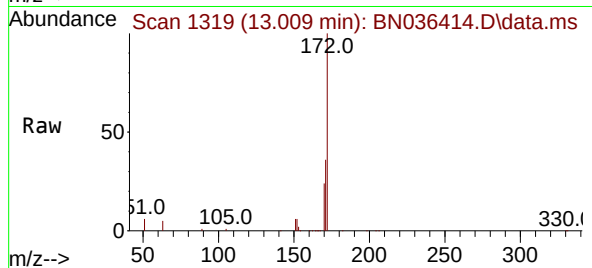




#15
2-Fluorobiphenyl
Concen: 3.260 ng
RT: 13.009 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

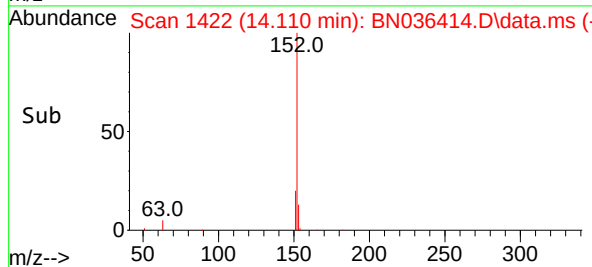
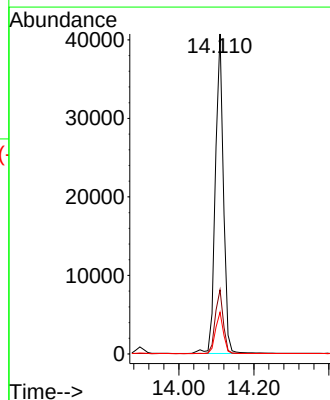
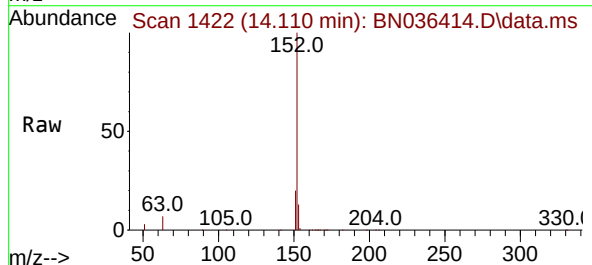
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

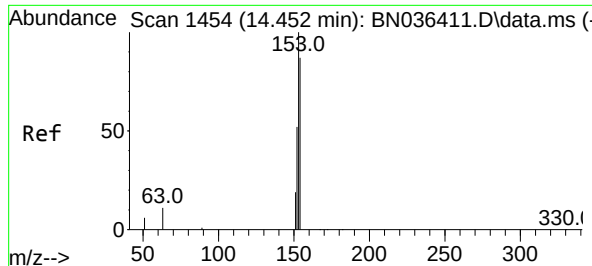
Tgt Ion:172 Resp: 53807
Ion Ratio Lower Upper
172 100
171 36.3 29.6 44.4
170 24.4 19.8 29.6



#16
Acenaphthylene
Concen: 3.395 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:152 Resp: 60797
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 12.9 10.2 15.2

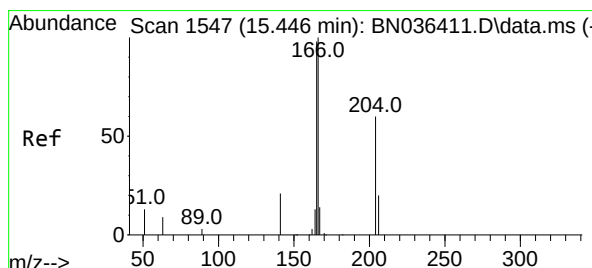
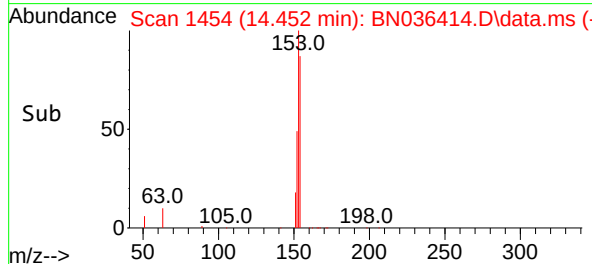
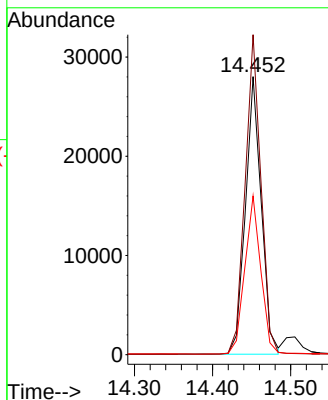
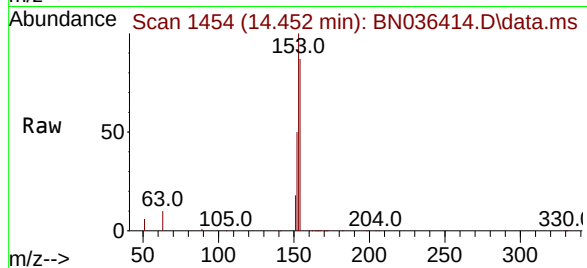




#17
Acenaphthene
Concen: 3.214 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

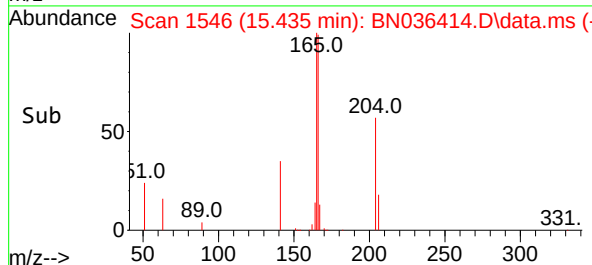
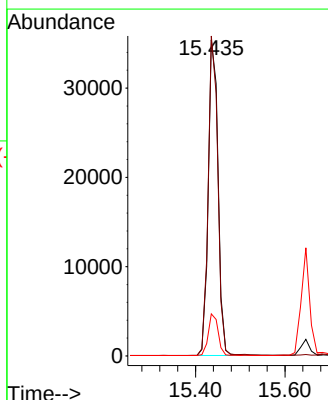
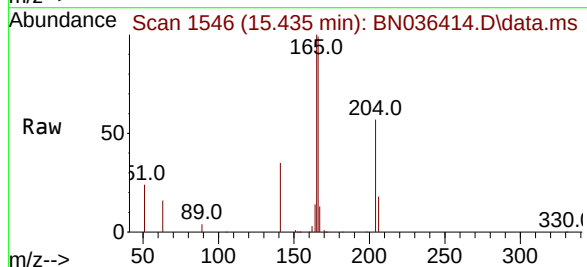
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

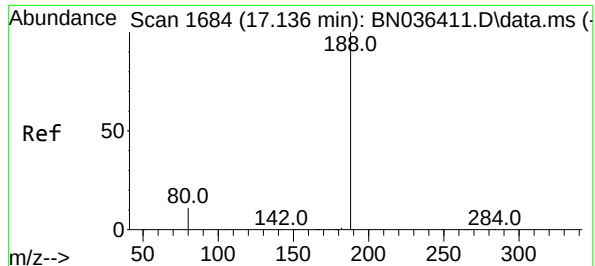
Tgt Ion	154	Resp	39414
Ion Ratio	Lower	Upper	
154	100		
153	115.0	93.3	139.9
152	57.9	48.8	73.2



#18
Fluorene
Concen: 3.589 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion	166	Resp	56634
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.5	119.3
167	12.6	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

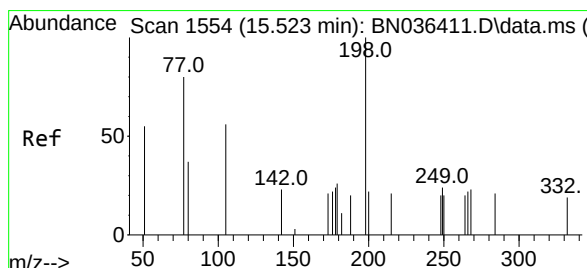
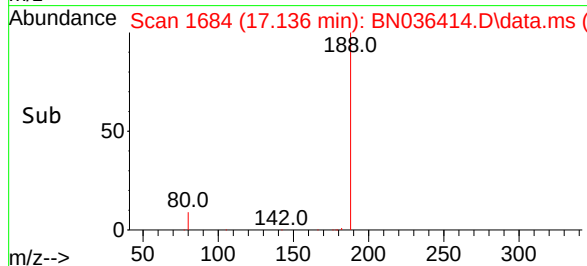
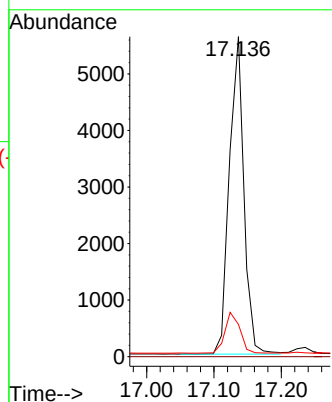
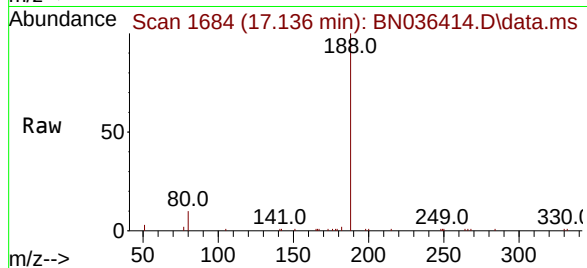
Tgt Ion:188 Resp: 8443

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: 3.841 ng

RT: 15.510 min Scan# 1553

Delta R.T. -0.012 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

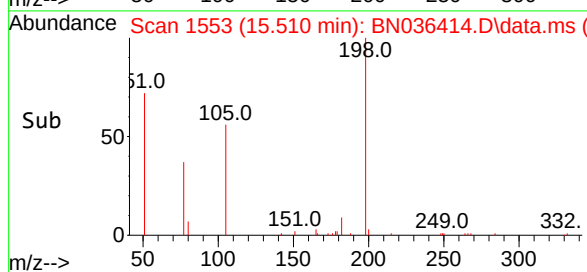
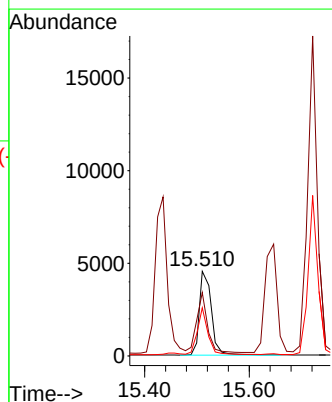
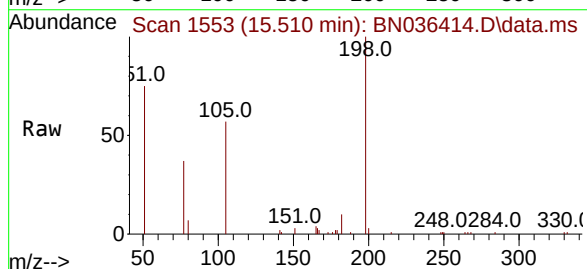
Tgt Ion:198 Resp: 7256

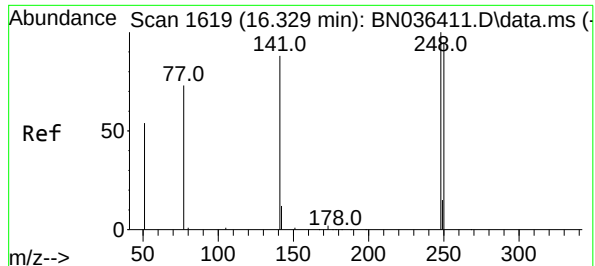
Ion Ratio Lower Upper

198 100

51 74.8 86.6 129.8#

105 57.0 57.5 86.3#

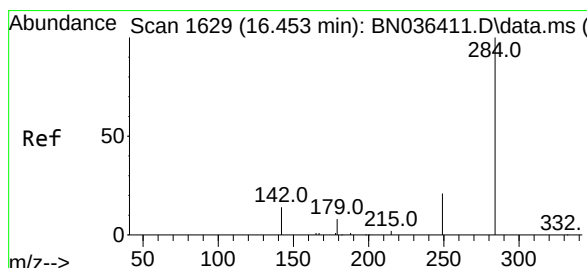
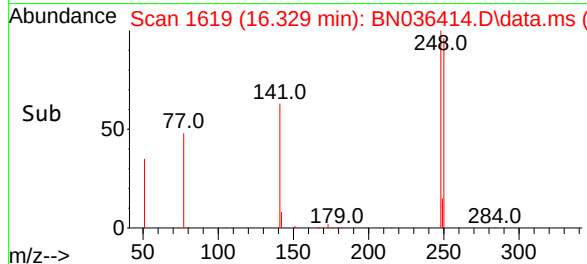
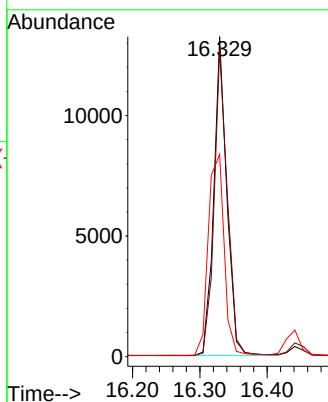
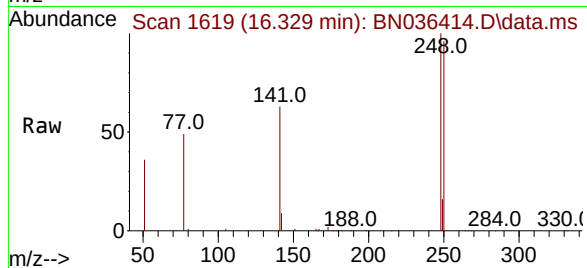




#21
4-Bromophenyl-phenylether
Concen: 3.081 ng
RT: 16.329 min Scan# 1619
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

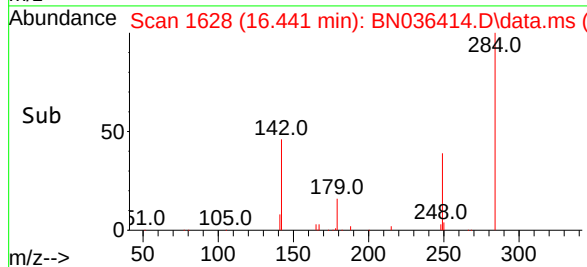
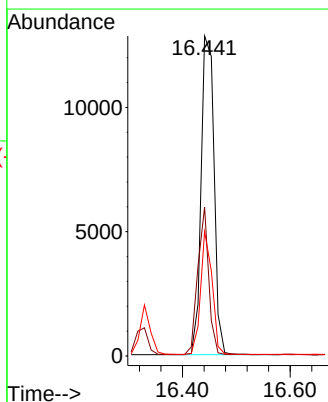
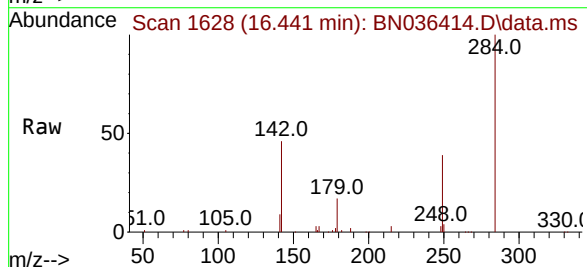
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

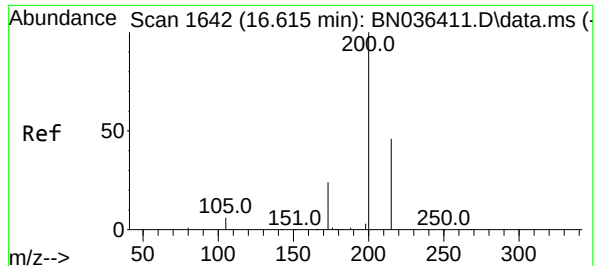
Tgt Ion:248 Resp: 17824
Ion Ratio Lower Upper
248 100
250 95.9 76.1 114.1
141 63.3 71.7 107.5#



#22
Hexachlorobenzene
Concen: 2.832 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion:284 Resp: 21378
Ion Ratio Lower Upper
284 100
142 39.4 33.4 50.0
249 34.3 28.6 43.0

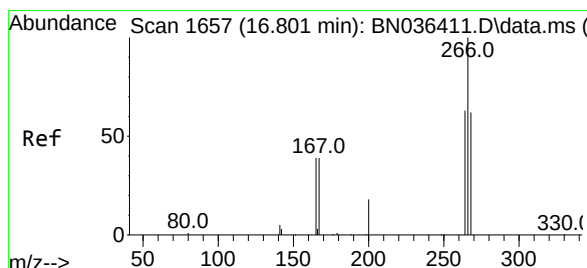
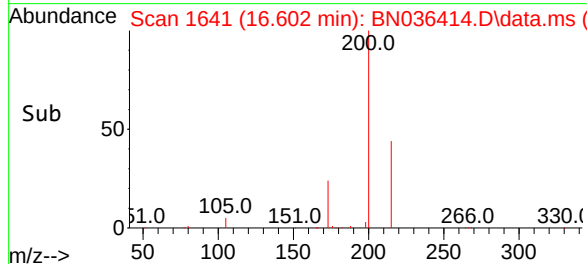
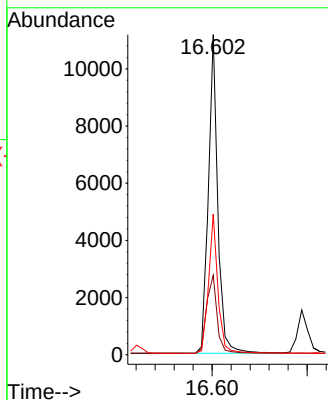
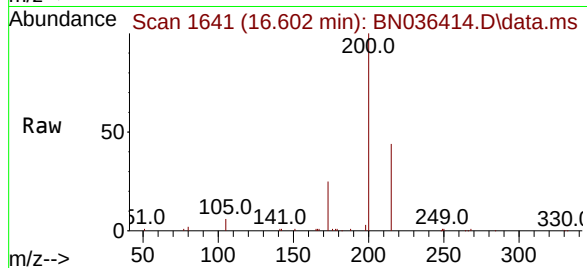




#23
Atrazine
Concen: 3.634 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

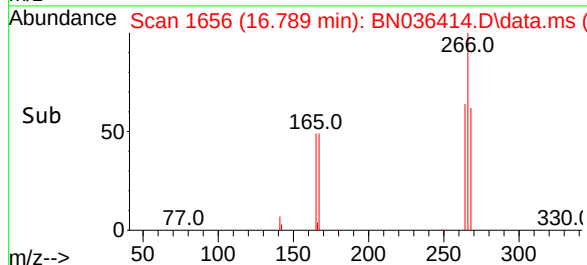
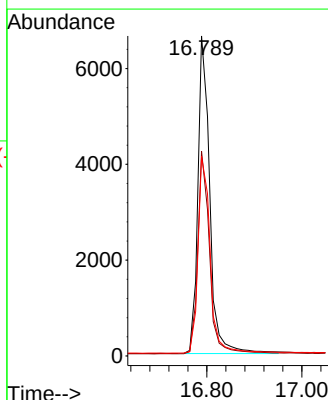
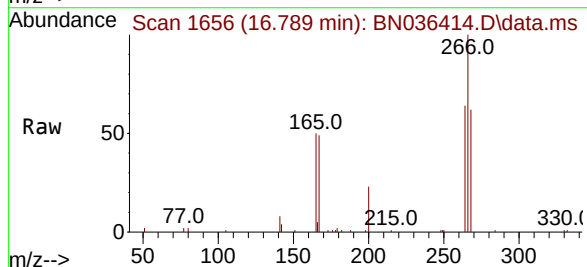
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

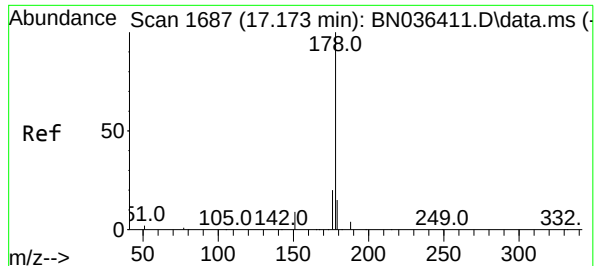
Tgt Ion	Ratio	Lower	Upper
200	100		
173	24.8	23.2	34.8
215	44.0	40.0	60.0



#24
Pentachlorophenol
Concen: 3.481 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.6	76.0
268	64.3	51.9	77.9





#25

Phenanthrene

Concen: 3.473 ng

RT: 17.173 min Scan# 1687

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

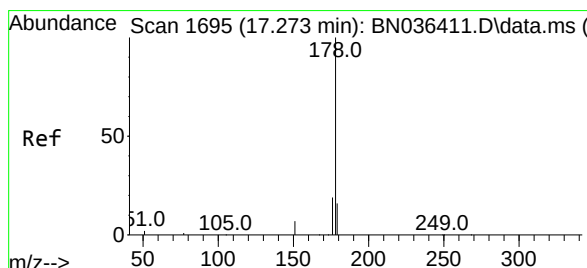
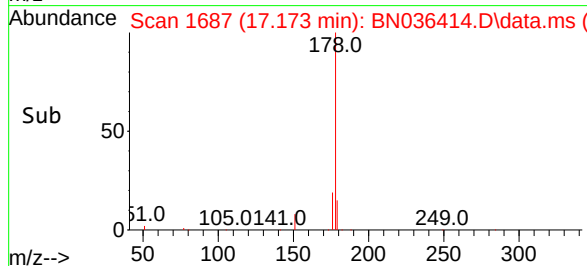
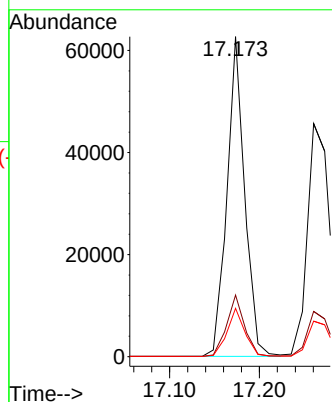
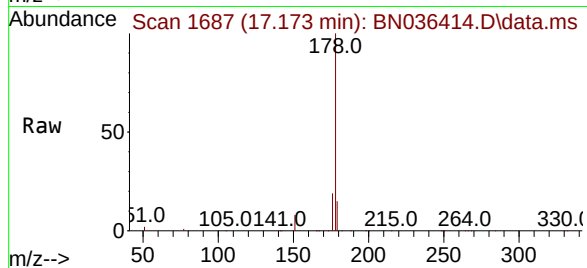
Tgt Ion:178 Resp: 85950

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.1 12.4 18.6



#26

Anthracene

Concen: 3.504 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.012 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

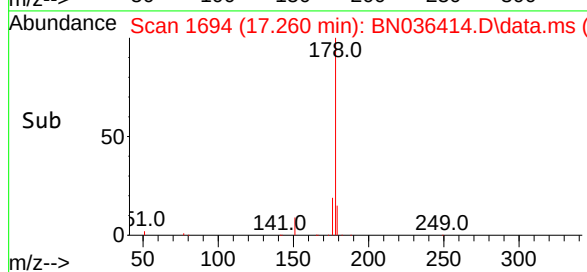
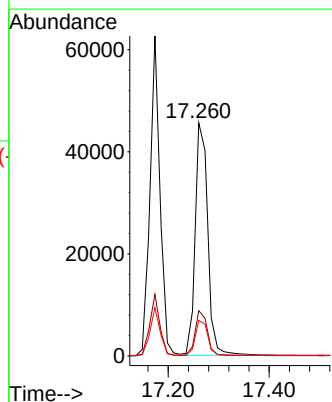
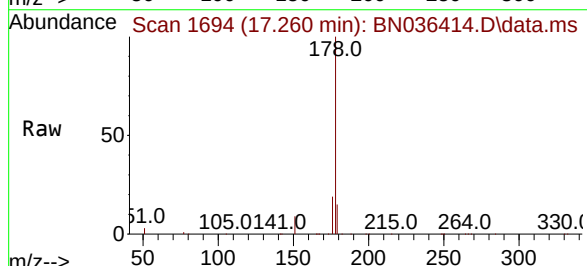
Tgt Ion:178 Resp: 78802

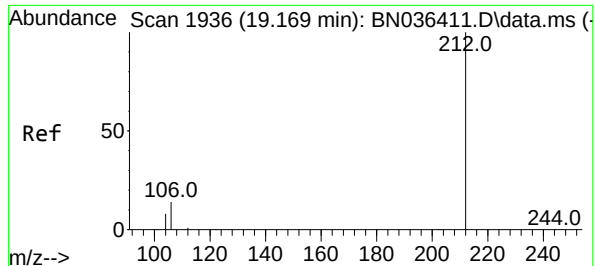
Ion Ratio Lower Upper

178 100

176 18.9 14.9 22.3

179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.911 ng

RT: 19.169 min Scan# 1936

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

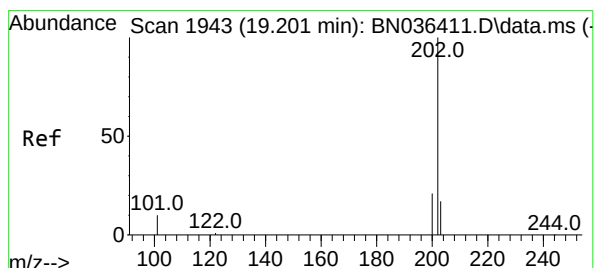
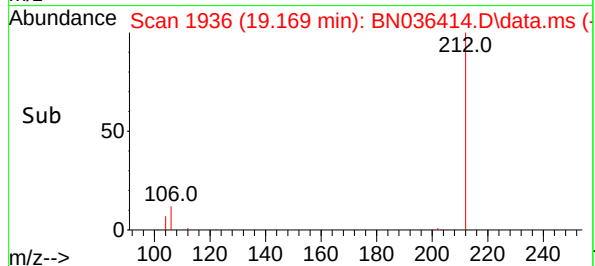
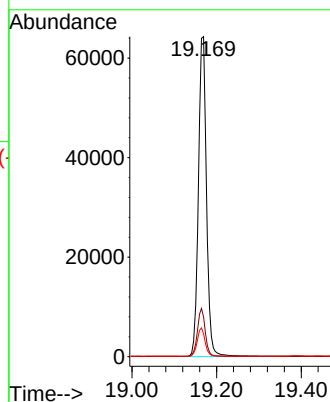
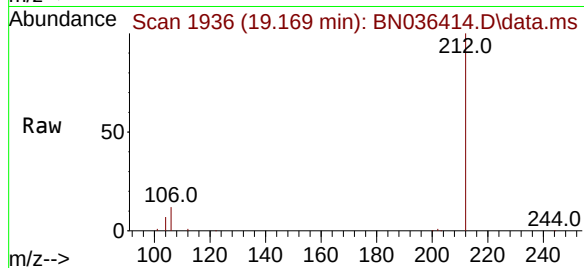
Tgt Ion:212 Resp: 84968

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.6 7.1 10.7



#28

Fluoranthene

Concen: 3.700 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

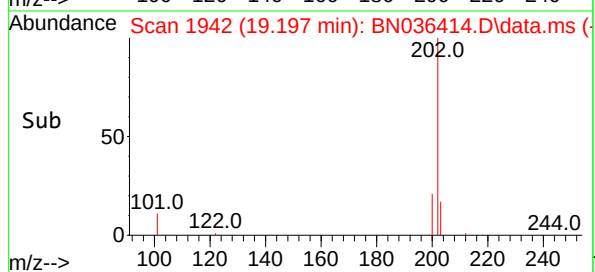
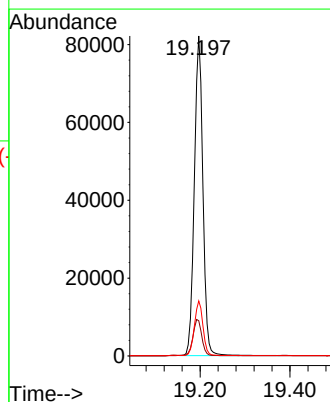
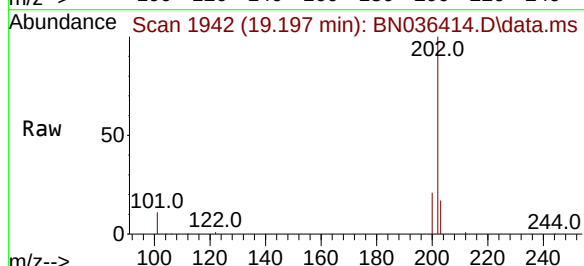
Tgt Ion:202 Resp: 108527

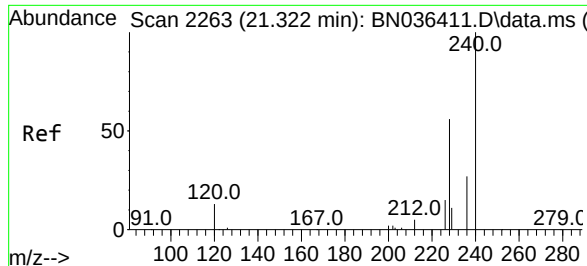
Ion Ratio Lower Upper

202 100

101 11.9 9.2 13.8

203 17.1 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

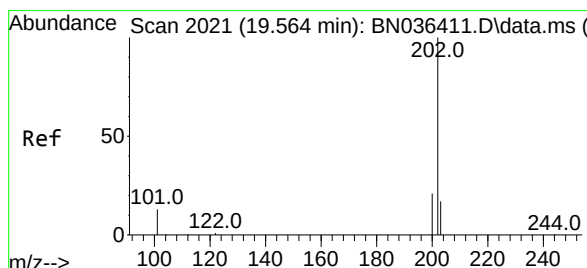
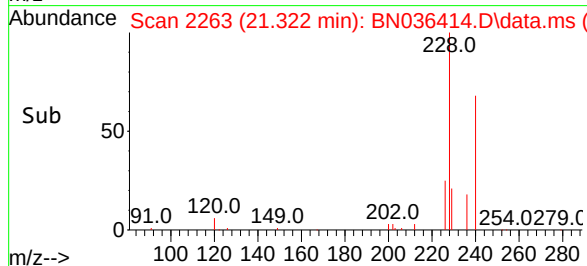
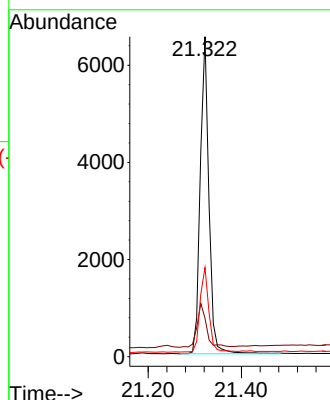
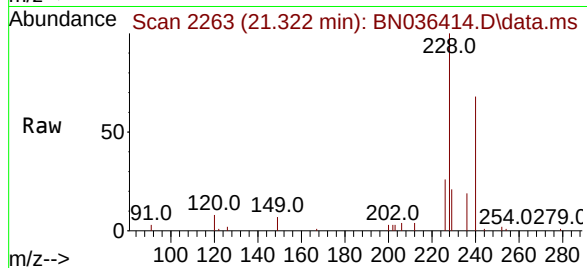
Tgt Ion:240 Resp: 8450

Ion Ratio Lower Upper

240 100

120 12.0 13.3 19.9#

236 27.8 23.0 34.6



#30

Pyrene

Concen: 3.262 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

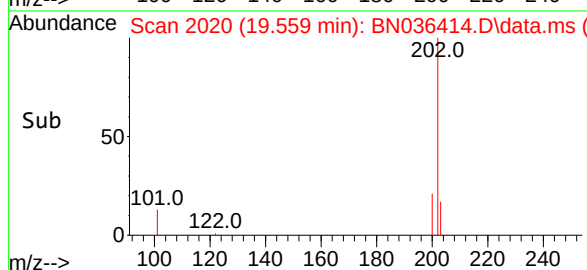
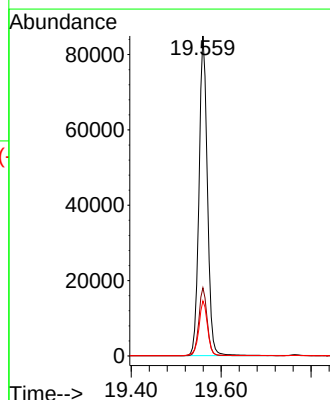
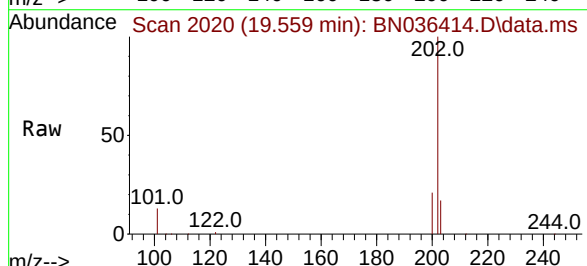
Tgt Ion:202 Resp: 110153

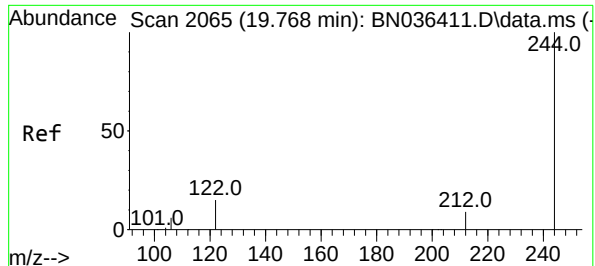
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.7 13.9 20.9

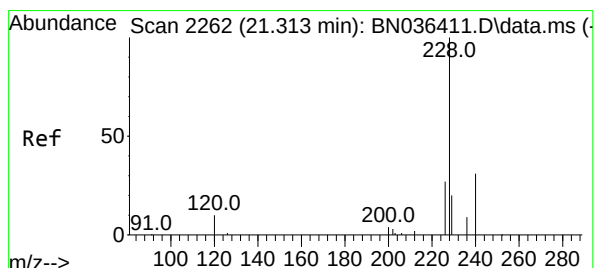
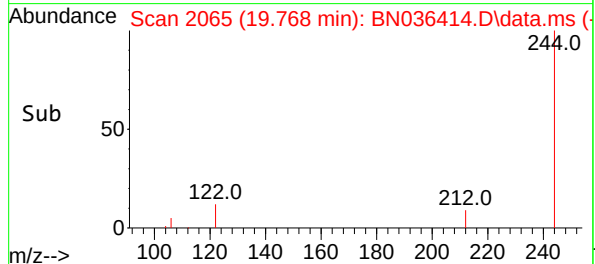
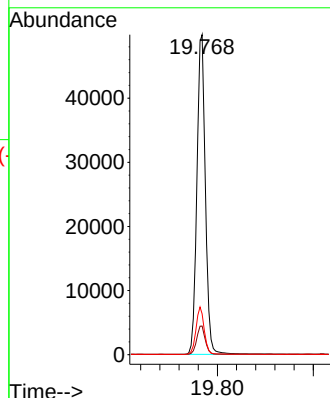
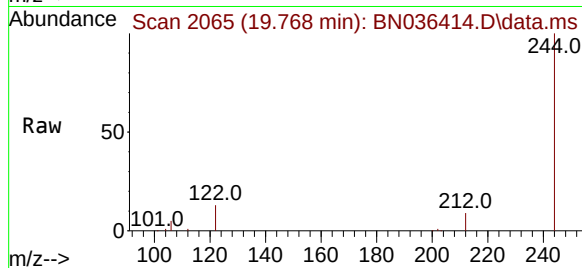




#31
Terphenyl-d14
Concen: 3.526 ng
RT: 19.768 min Scan# 2065
Delta R.T. 0.000 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

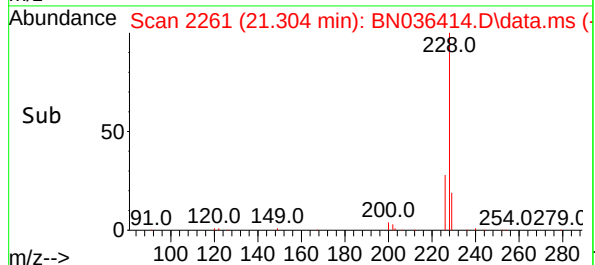
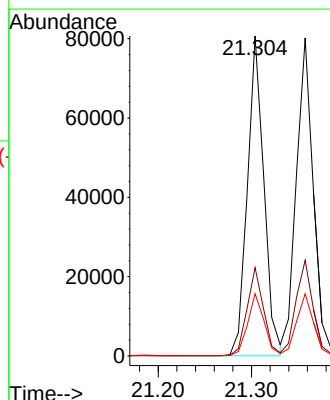
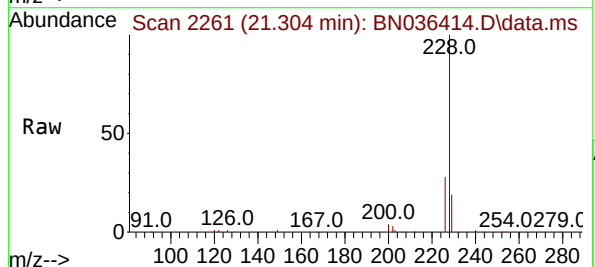
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

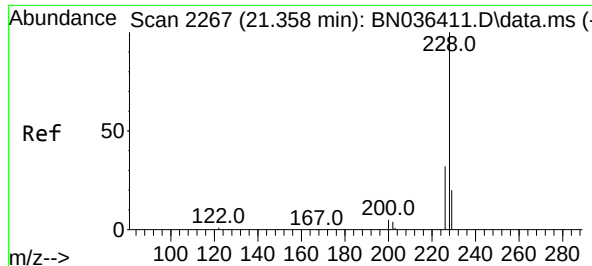
Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.9	8.1	12.1
122	12.8	12.8	19.2



#32
Benzo(a)anthracene
Concen: 3.312 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036414.D
Acq: 10 Feb 2025 15:24

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.2	33.2
229	19.5	16.5	24.7





#33

Chrysene

Concen: 3.354 ng

RT: 21.358 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

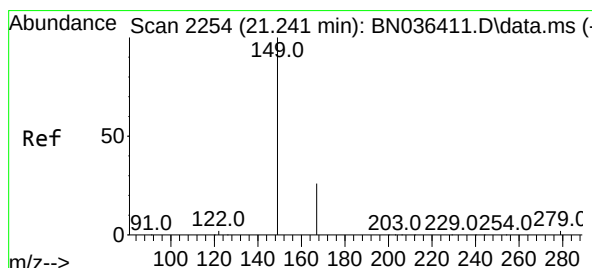
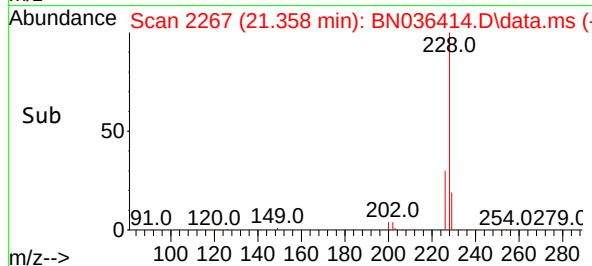
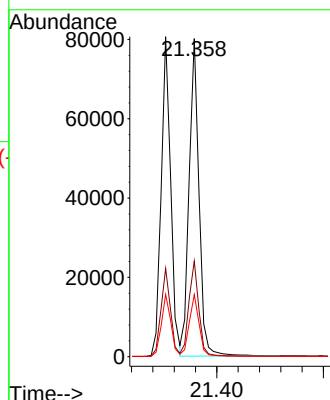
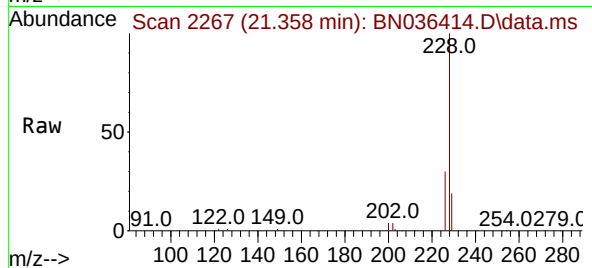
Tgt Ion:228 Resp: 103234

Ion Ratio Lower Upper

228 100

226 30.1 25.5 38.3

229 19.5 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.480 ng

RT: 21.241 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

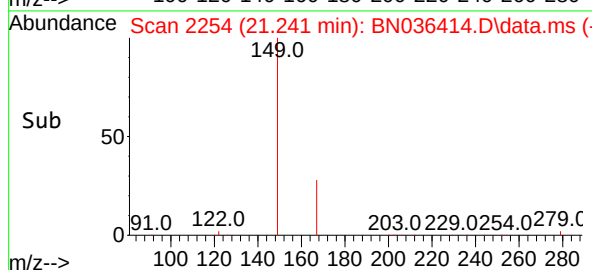
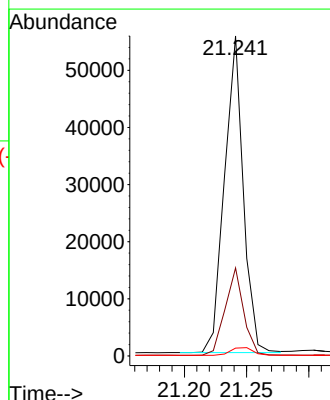
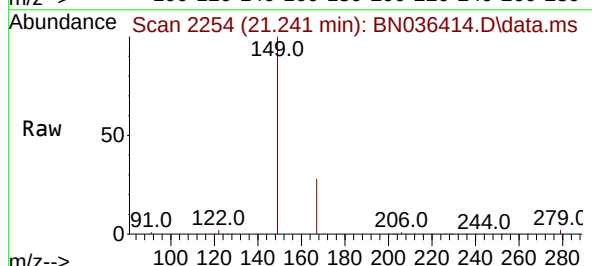
Tgt Ion:149 Resp: 58234

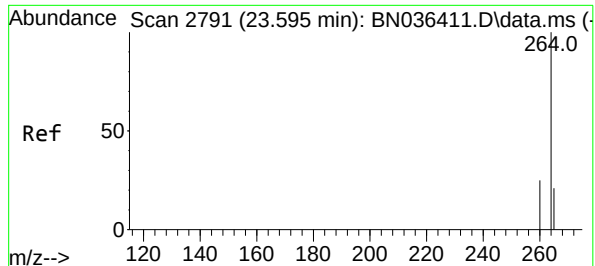
Ion Ratio Lower Upper

149 100

167 27.1 21.2 31.8

279 3.0 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036414.D

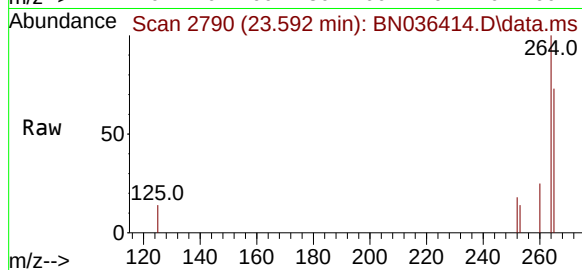
Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



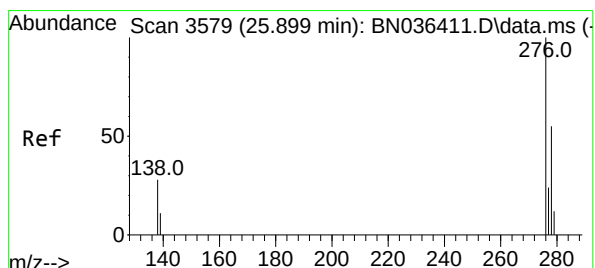
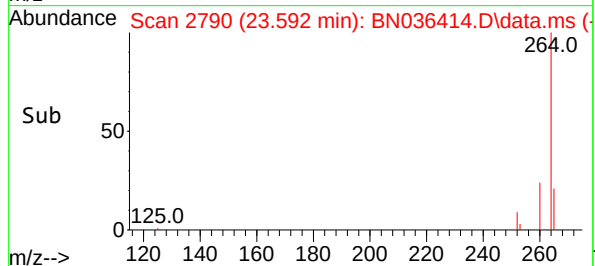
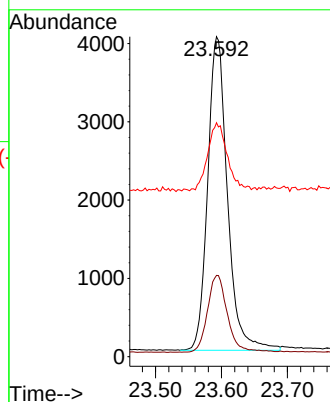
Tgt Ion:264 Resp: 8327

Ion Ratio Lower Upper

264 100

260 25.4 20.9 31.3

265 73.1 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.320 ng

RT: 25.890 min Scan# 3576

Delta R.T. -0.009 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

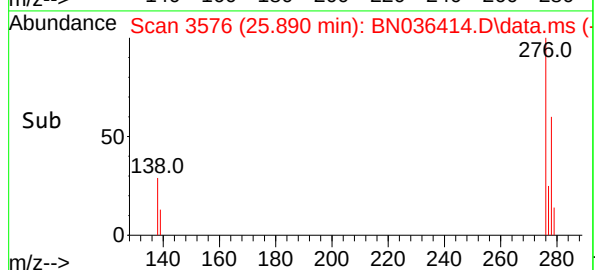
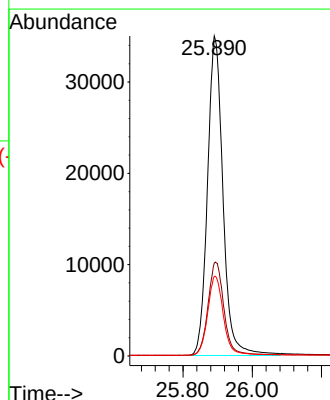
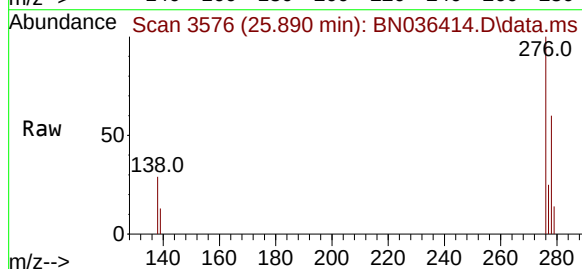
Tgt Ion:276 Resp: 108596

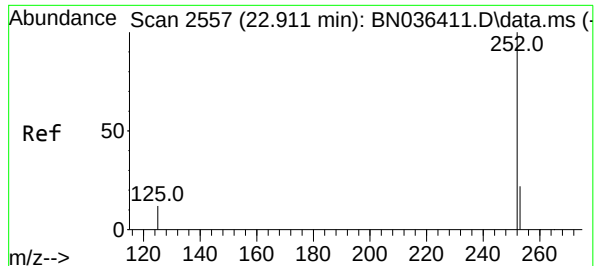
Ion Ratio Lower Upper

276 100

138 29.9 22.2 33.2

277 25.1 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 3.445 ng

RT: 22.905 min Scan# 2555

Delta R.T. -0.006 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

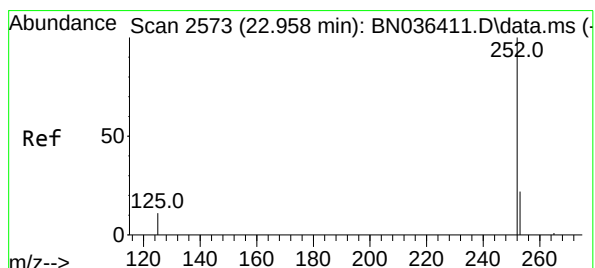
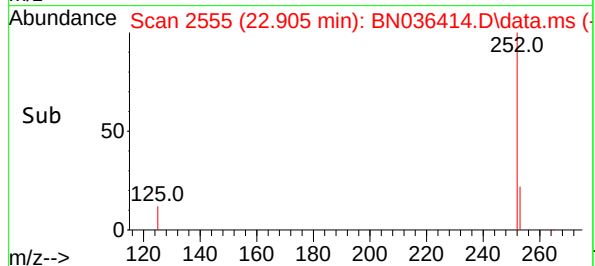
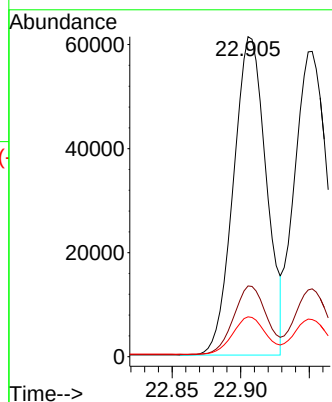
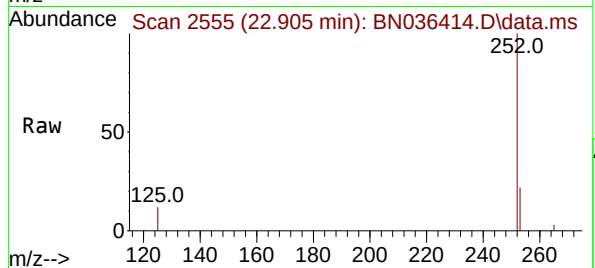
Tgt Ion:252 Resp: 101833

Ion Ratio Lower Upper

252 100

253 22.1 21.9 32.9

125 12.5 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 3.385 ng

RT: 22.952 min Scan# 2571

Delta R.T. -0.006 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

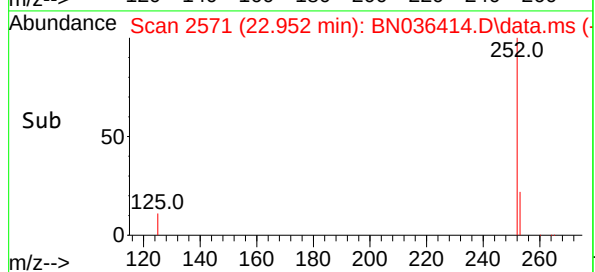
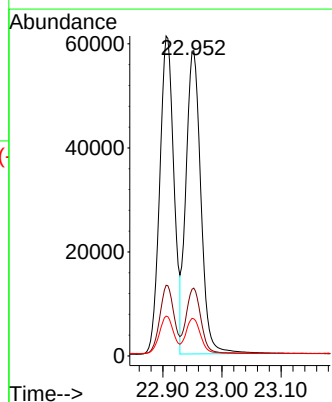
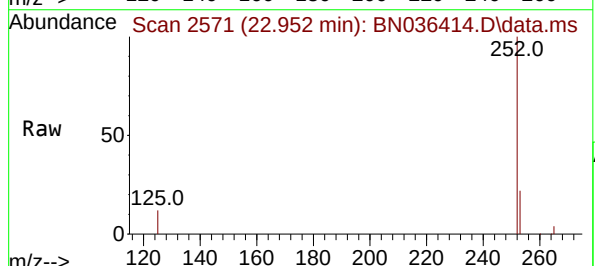
Tgt Ion:252 Resp: 102040

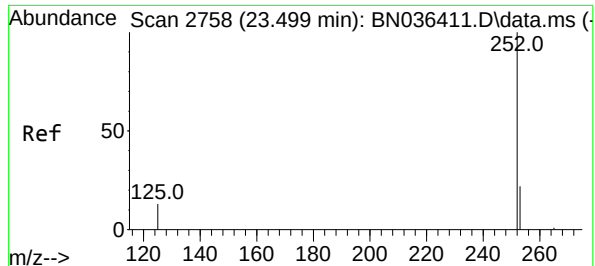
Ion Ratio Lower Upper

252 100

253 22.2 22.2 33.4#

125 12.2 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 3.437 ng

RT: 23.490 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036414.D

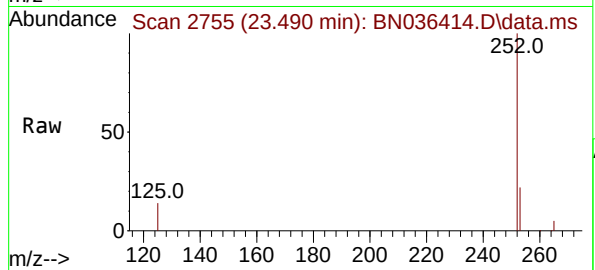
Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



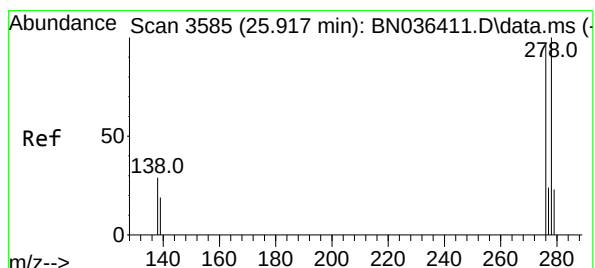
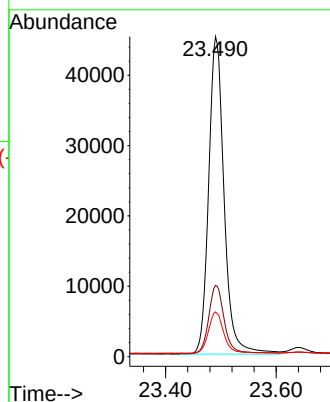
Tgt Ion:252 Resp: 87191

Ion Ratio Lower Upper

252 100

253 22.2 24.4 36.6#

125 14.0 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.343 ng

RT: 25.905 min Scan# 3581

Delta R.T. -0.012 min

Lab File: BN036414.D

Acq: 10 Feb 2025 15:24

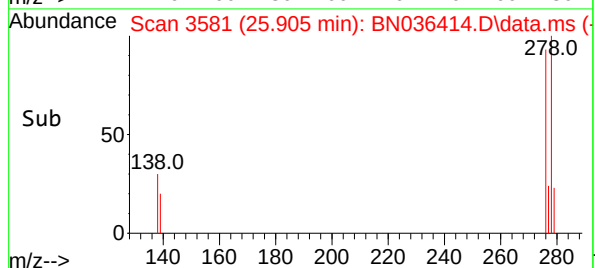
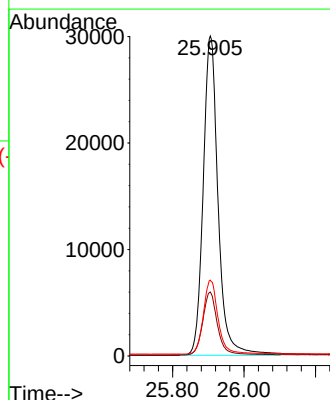
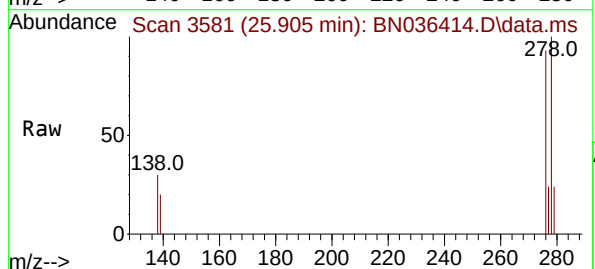
Tgt Ion:278 Resp: 86887

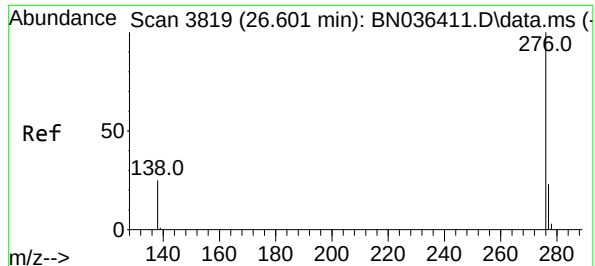
Ion Ratio Lower Upper

278 100

139 20.0 18.5 27.7

279 23.7 24.8 37.2#





#41

Benzo(g,h,i)perylene

Concen: 3.269 ng

RT: 26.592 min Scan# 3816

Delta R.T. -0.009 min

Lab File: BN036414.D

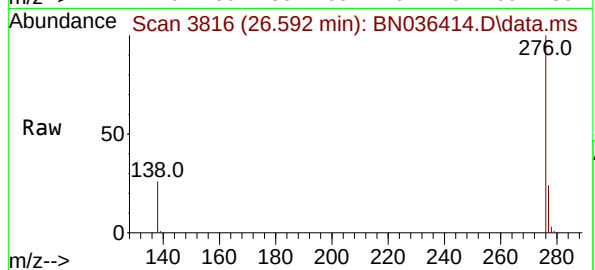
Acq: 10 Feb 2025 15:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



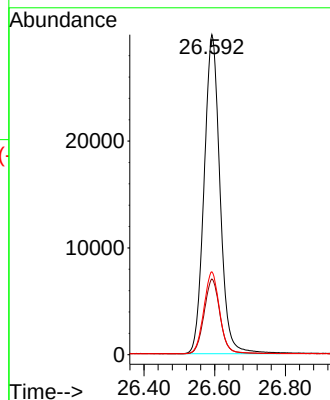
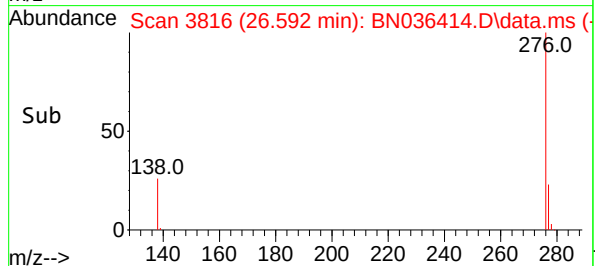
Tgt Ion:276 Resp: 93260

Ion Ratio Lower Upper

276 100

277 23.7 20.7 31.1

138 25.9 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036415.D
 Acq On : 10 Feb 2025 16:00
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 00:33:05 2025
 Response via : Initial Calibration

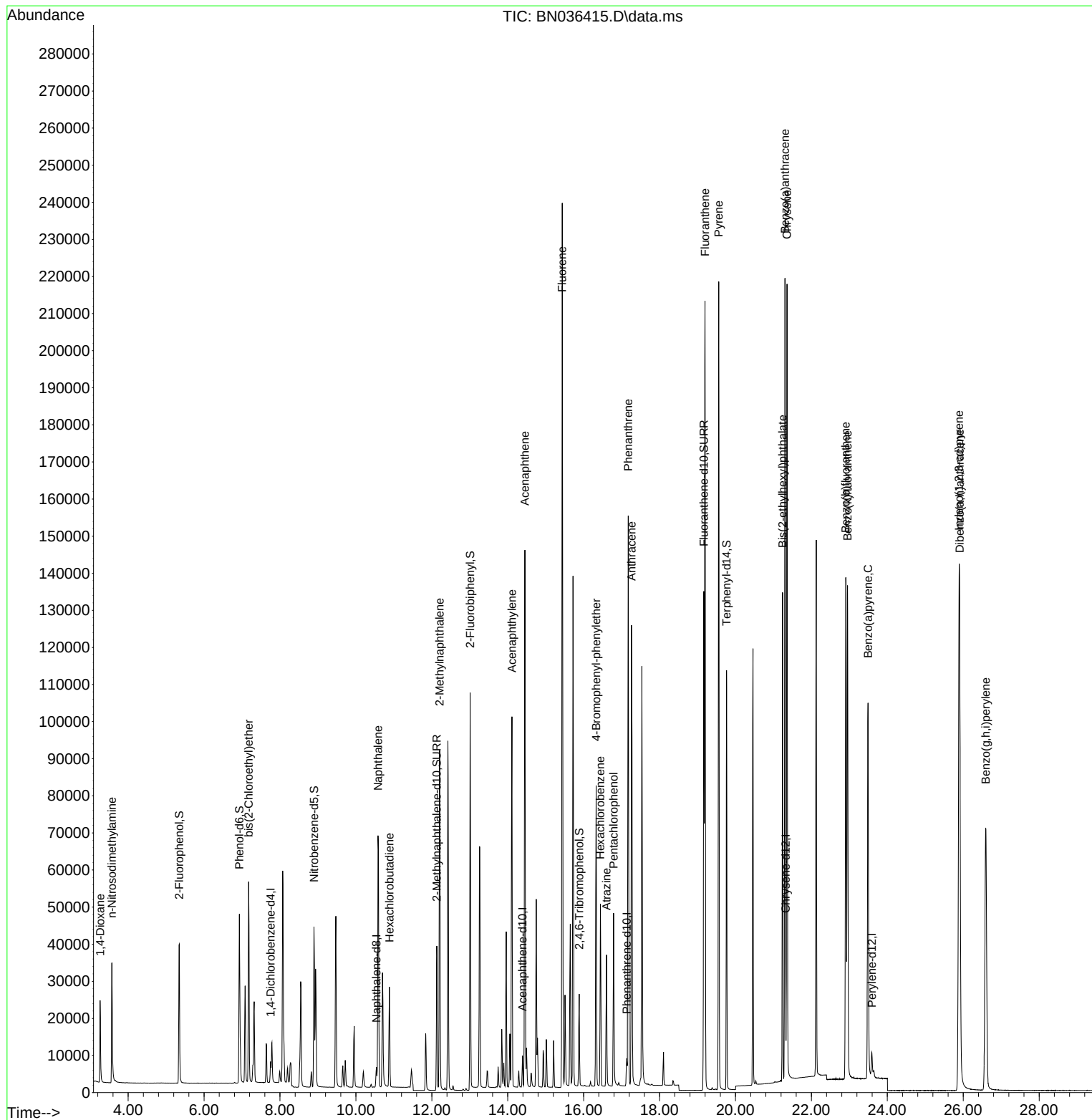
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2586	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	6761	0.400	ng	# 0.00
13) Acenaphthene-d10	14.388	164	4542	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	9953	0.400	ng	# 0.00
29) Chrysene-d12	21.322	240	9960	0.400	ng	# 0.00
35) Perylene-d12	23.592	264	9411	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	28619	4.348	ng	0.00
5) Phenol-d6	6.930	99	37616	4.898	ng	0.00
8) Nitrobenzene-d5	8.897	82	32241	5.118	ng	-0.01
11) 2-Methylnaphthalene-d10	12.131	152	52187	5.642	ng	-0.01
14) 2,4,6-Tribromophenol	15.883	330	12444	4.447	ng	0.00
15) 2-Fluorobiphenyl	13.009	172	88478	4.567	ng	-0.01
27) Fluoranthene-d10	19.164	212	143795	5.615	ng	0.00
31) Terphenyl-d14	19.764	244	104936	5.088	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	12303	4.303	ng	97
3) n-Nitrosodimethylamine	3.572	42	21660	4.216	ng	# 99
6) bis(2-Chloroethyl)ether	7.176	93	35791	5.604	ng	99
9) Naphthalene	10.584	128	90689	4.696	ng	97
10) Hexachlorobutadiene	10.883	225	21383	3.534	ng	# 100
12) 2-Methylnaphthalene	12.207	142	63405	5.226	ng	97
16) Acenaphthylene	14.110	152	103358	4.917	ng	99
17) Acenaphthene	14.452	154	66375	4.612	ng	97
18) Fluorene	15.435	166	93442	5.045	ng	96
21) 4-Bromophenyl-phenylether	16.329	248	29550	4.334	ng	# 86
22) Hexachlorobenzene	16.441	284	35446	3.983	ng	97
23) Atrazine	16.602	200	26508	5.288	ng	92
24) Pentachlorophenol	16.789	266	20784	5.340	ng	99
25) Phenanthrene	17.173	178	143424	4.916	ng	100
26) Anthracene	17.260	178	135332	5.105	ng	100
28) Fluoranthene	19.197	202	181794	5.257	ng	99
30) Pyrene	19.559	202	185711	4.666	ng	100
32) Benzo(a)anthracene	21.304	228	169514	4.790	ng	99
33) Chrysene	21.358	228	170028	4.687	ng	97
34) Bis(2-ethylhexyl)phtha...	21.241	149	101929	5.168	ng	99
36) Indeno(1,2,3-cd)pyrene	25.890	276	172989	4.679	ng	97
37) Benzo(b)fluoranthene	22.905	252	166596	4.986	ng	# 88
38) Benzo(k)fluoranthene	22.952	252	166186	4.879	ng	# 88
39) Benzo(a)pyrene	23.490	252	141837	4.947	ng	# 83
40) Dibenzo(a,h)anthracene	25.905	278	138330	4.709	ng	# 89
41) Benzo(g,h,i)perylene	26.595	276	146932	4.557	ng	96

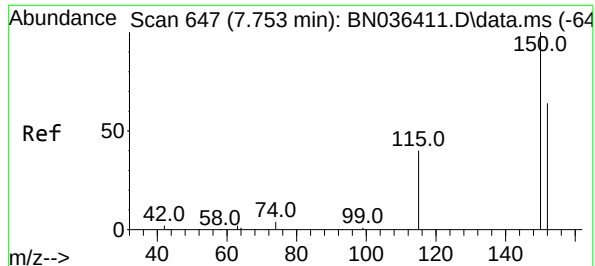
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036415.D
Acq On : 10 Feb 2025 16:00
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Feb 11 00:37:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 00:33:05 2025
Response via : Initial Calibration

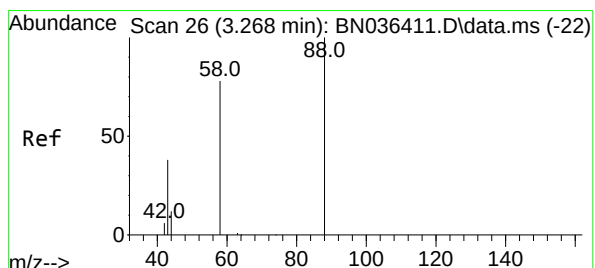
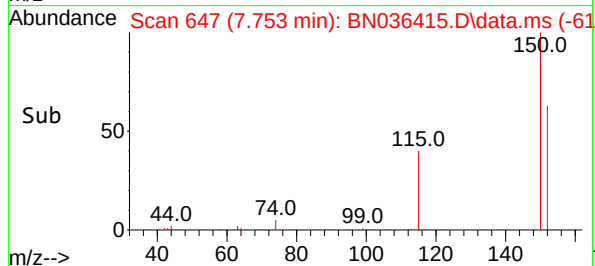
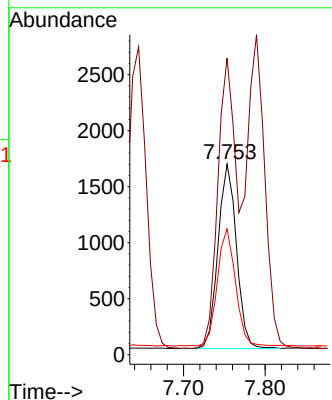
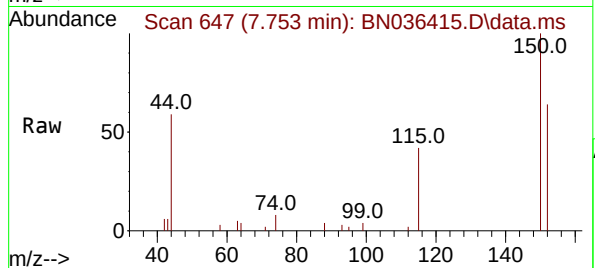




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

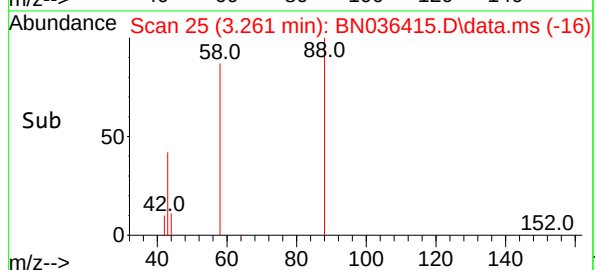
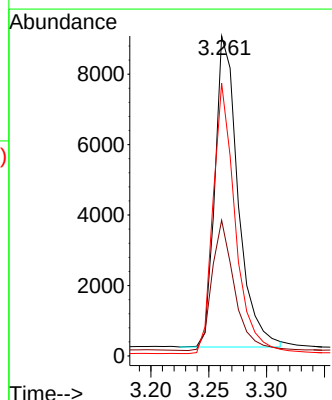
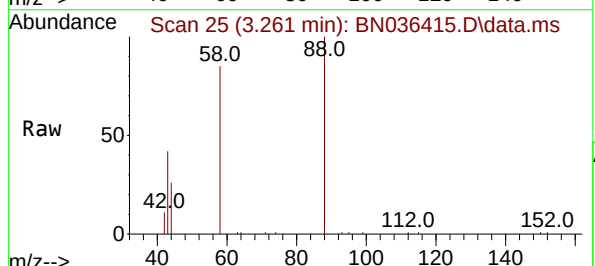
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

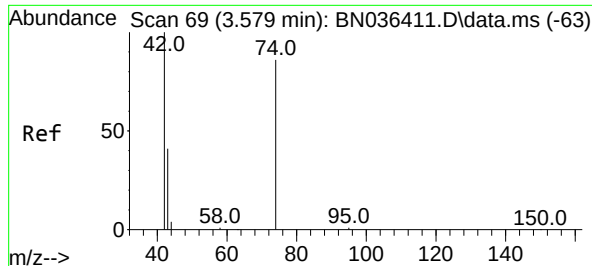
Tgt Ion:152 Resp: 2586
Ion Ratio Lower Upper
152 100
150 155.8 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 4.303 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 88 Resp: 12303
Ion Ratio Lower Upper
88 100
43 40.4 33.7 50.5
58 82.9 68.9 103.3

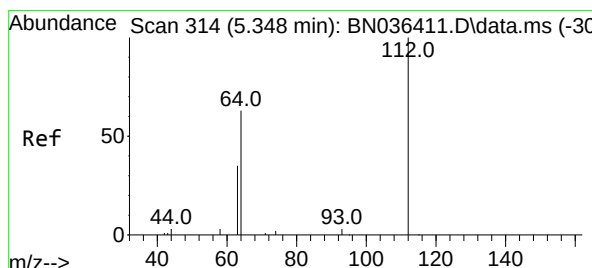
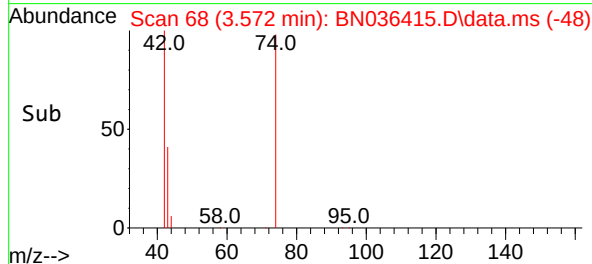
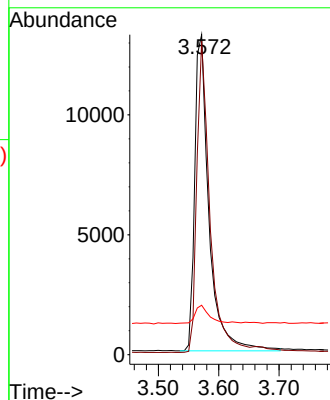
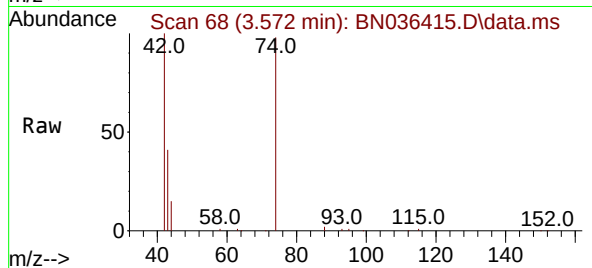




#3
n-Nitrosodimethylamine
Concen: 4.216 ng
RT: 3.572 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

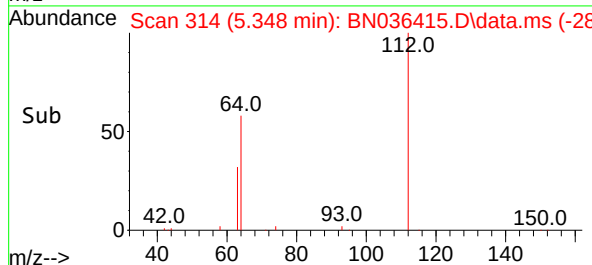
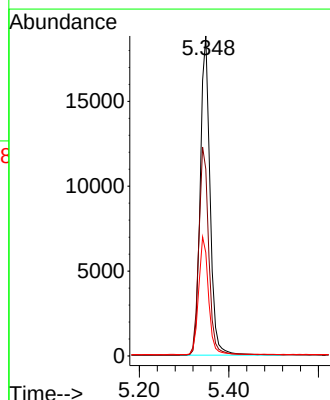
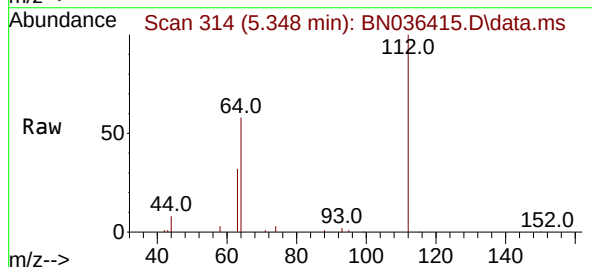
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

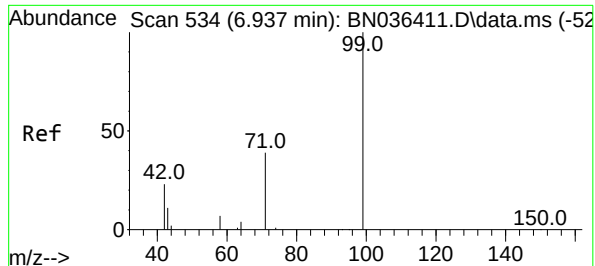
Tgt Ion: 42 Resp: 21660
Ion Ratio Lower Upper
42 100
74 89.7 71.8 107.6
44 5.6 7.8 11.6#



#4
2-Fluorophenol
Concen: 4.348 ng
RT: 5.348 min Scan# 314
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 112 Resp: 28619
Ion Ratio Lower Upper
112 100
64 66.1 53.4 80.0
63 37.1 30.3 45.5

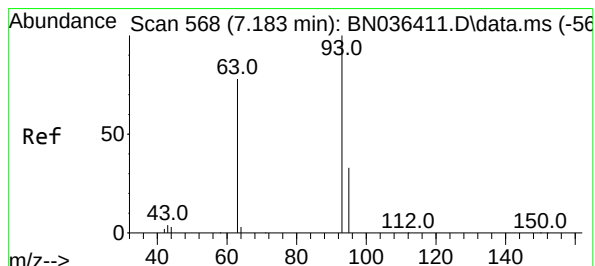
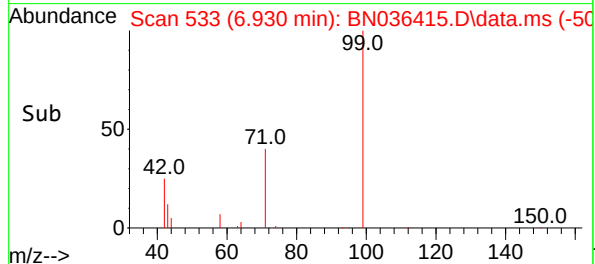
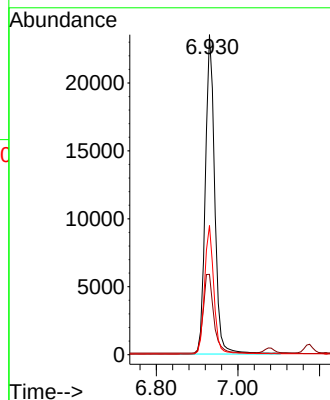
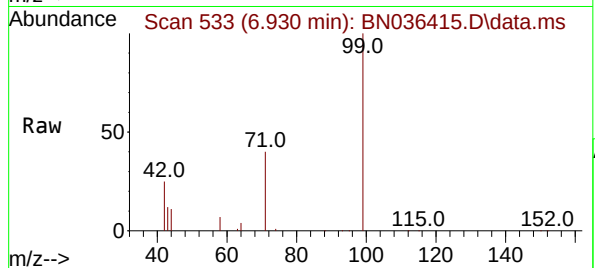




#5
Phenol-d6
Concen: 4.898 ng
RT: 6.930 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

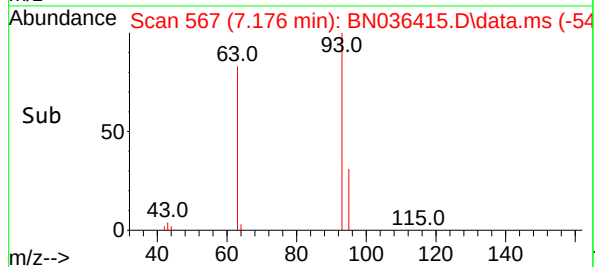
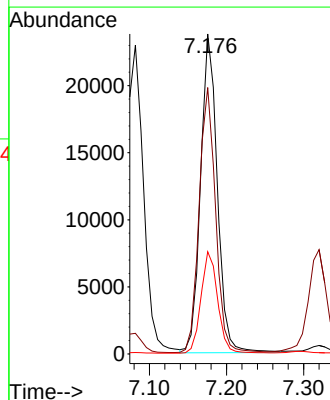
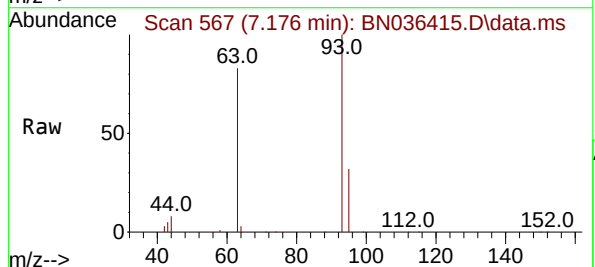
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

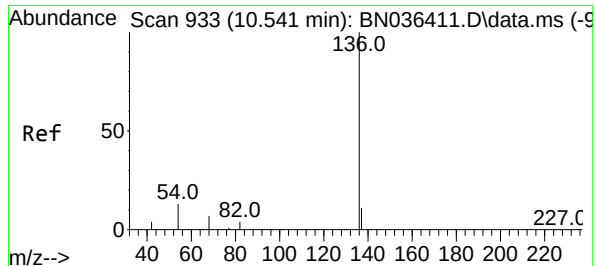
Tgt Ion: 99 Resp: 37616
Ion Ratio Lower Upper
99 100
42 27.6 21.7 32.5
71 40.0 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 5.604 ng
RT: 7.176 min Scan# 567
Delta R.T. -0.007 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion: 93 Resp: 35791
Ion Ratio Lower Upper
93 100
63 81.8 66.3 99.5
95 31.7 26.2 39.4





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.541 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:136 Resp: 6761

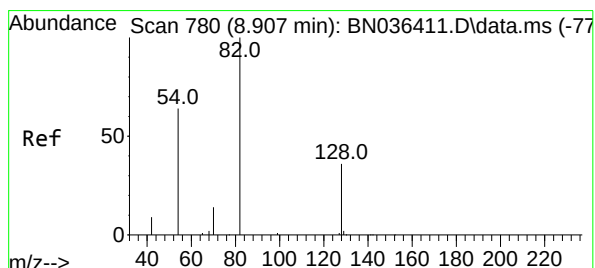
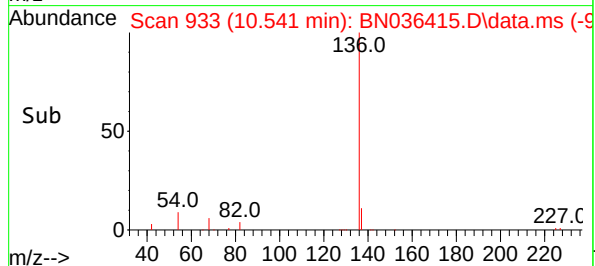
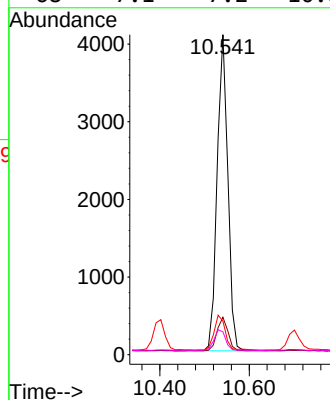
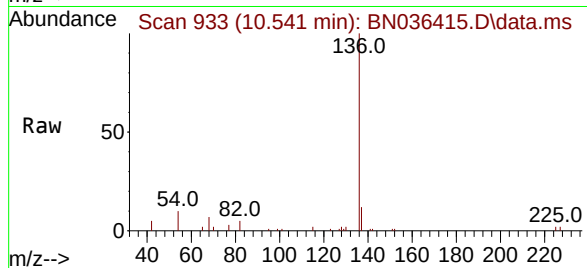
Ion Ratio Lower Upper

136 100

137 11.7 10.1 15.1

54 10.5 11.8 17.6#

68 7.1 7.2 10.8#



#8

Nitrobenzene-d5

Concen: 5.118 ng

RT: 8.897 min Scan# 779

Delta R.T. -0.011 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

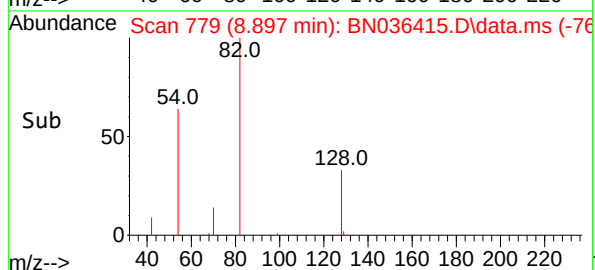
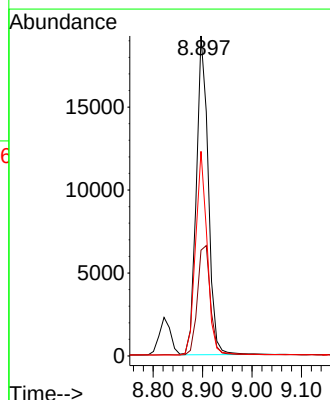
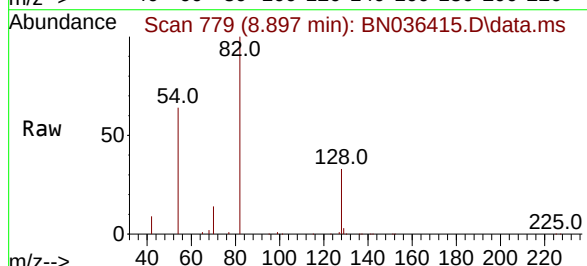
Tgt Ion: 82 Resp: 32241

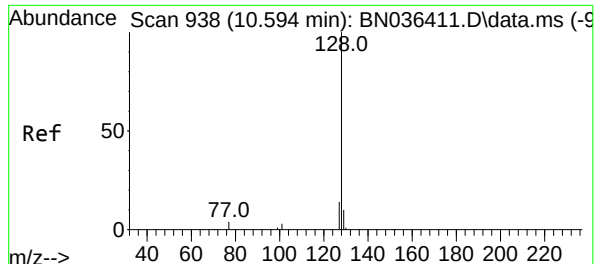
Ion Ratio Lower Upper

82 100

128 33.1 31.9 47.9

54 64.0 53.1 79.7

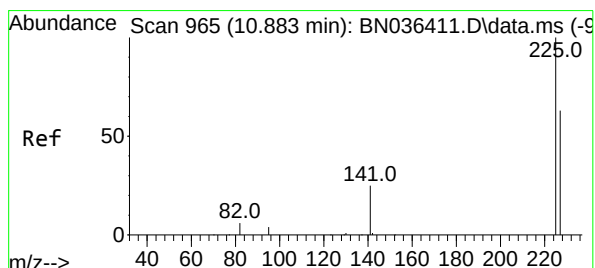
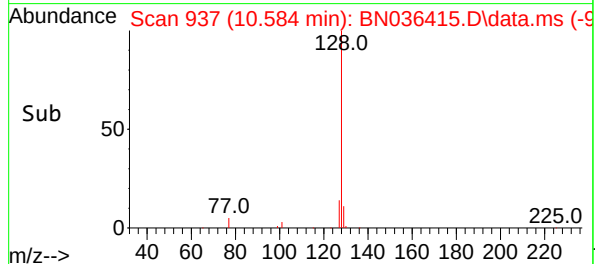
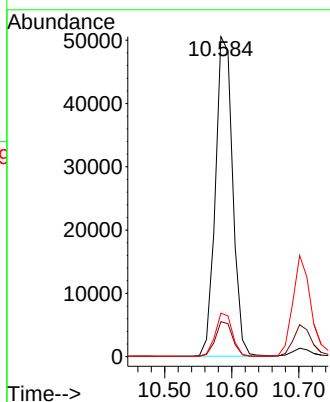
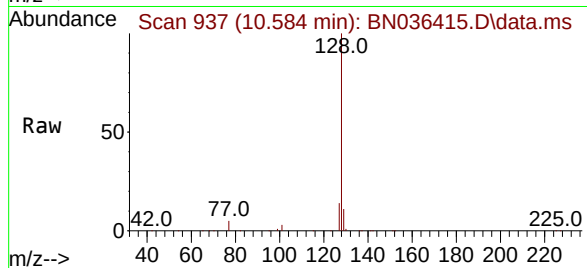




#9
Naphthalene
Concen: 4.696 ng
RT: 10.584 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

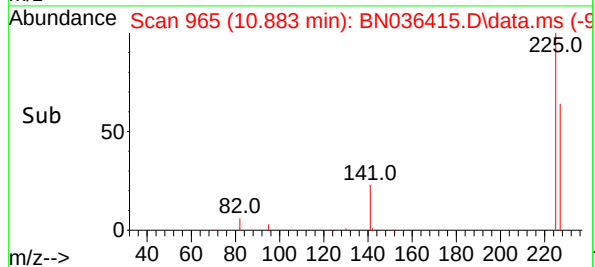
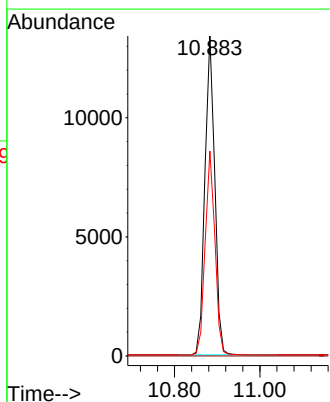
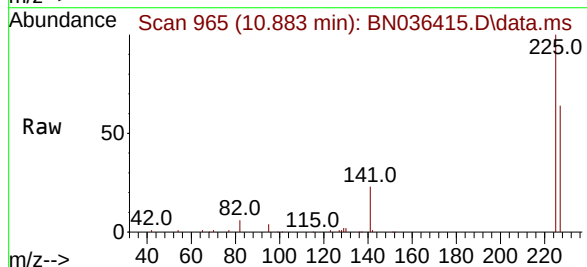
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

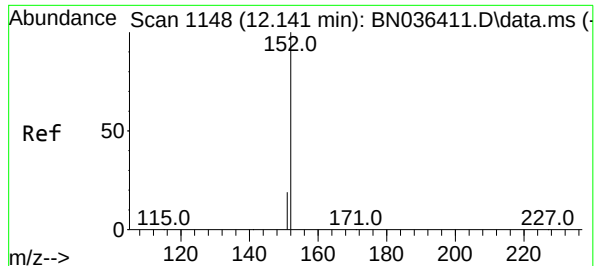
Tgt Ion:128 Resp: 90689
Ion Ratio Lower Upper
128 100
129 10.9 9.6 14.4
127 13.6 12.0 18.0



#10
Hexachlorobutadiene
Concen: 3.534 ng
RT: 10.883 min Scan# 965
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:225 Resp: 21383
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.9 76.3

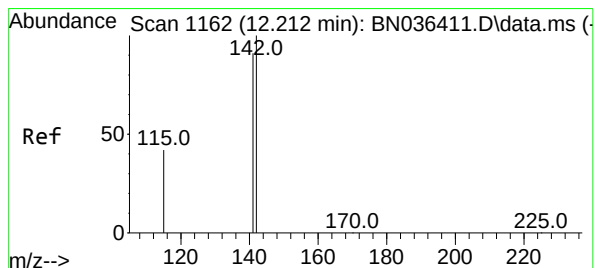
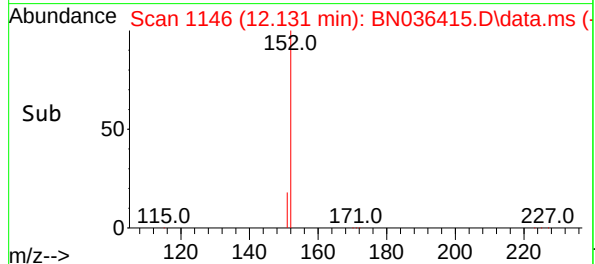
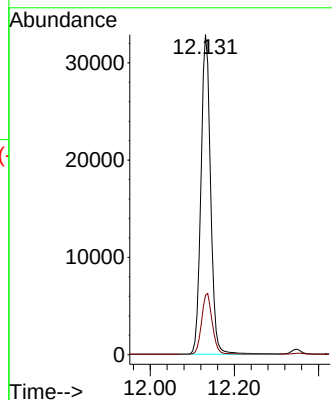
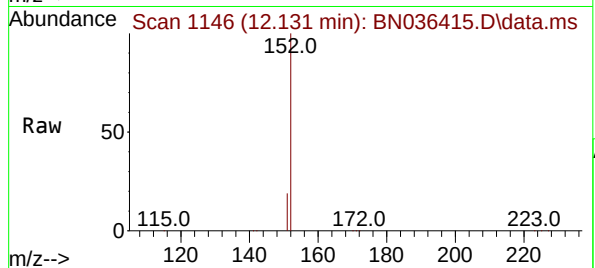




#11
2-Methylnaphthalene-d10
Concen: 5.642 ng
RT: 12.131 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

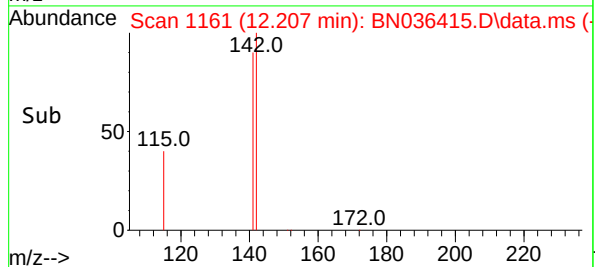
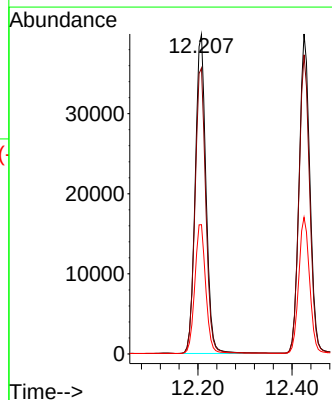
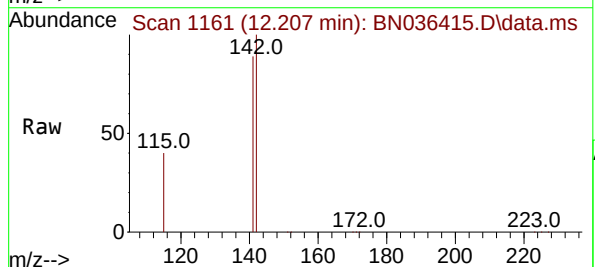
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

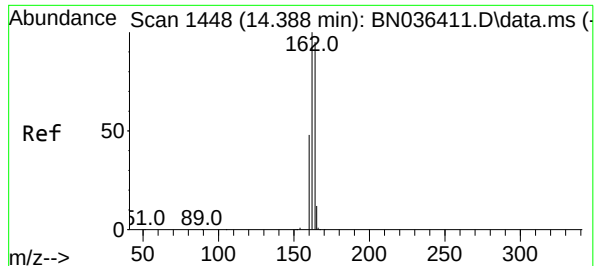
Tgt Ion:152 Resp: 52187
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0



#12
2-Methylnaphthalene
Concen: 5.226 ng
RT: 12.207 min Scan# 1161
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:142 Resp: 63405
Ion Ratio Lower Upper
142 100
141 89.5 72.8 109.2
115 40.5 35.5 53.3

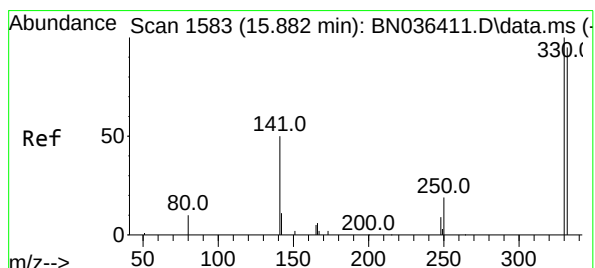
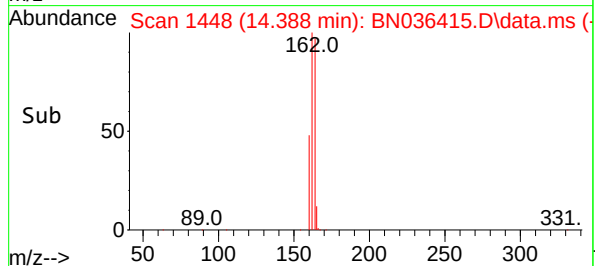
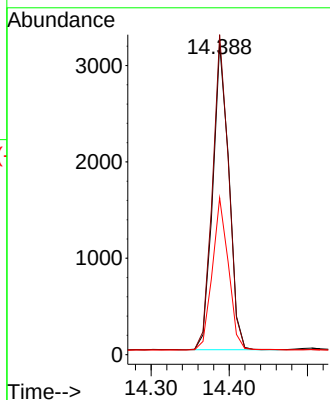
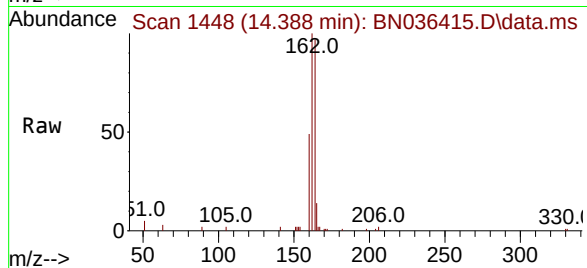




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

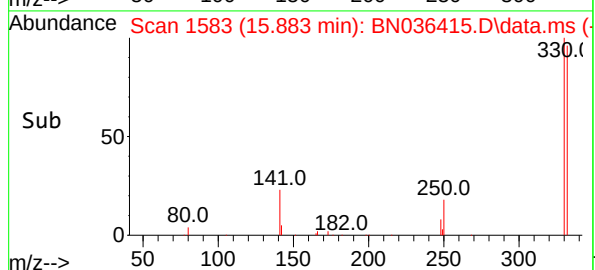
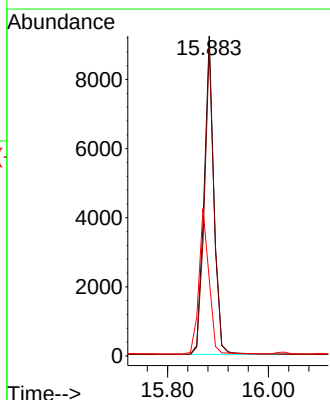
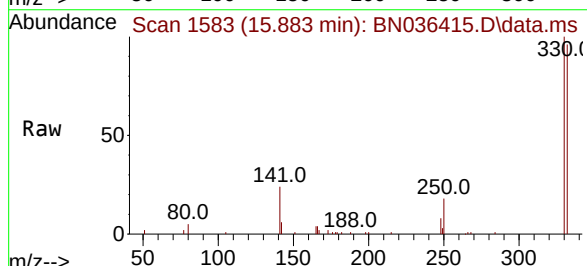
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

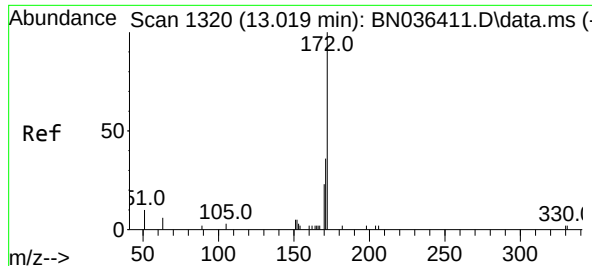
Tgt Ion:164 Resp: 4542
Ion Ratio Lower Upper
164 100
162 102.9 84.1 126.1
160 50.4 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 4.447 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:330 Resp: 12444
Ion Ratio Lower Upper
330 100
332 95.6 76.6 114.8
141 46.6 37.8 56.8

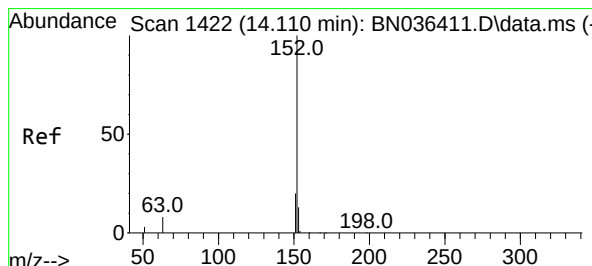
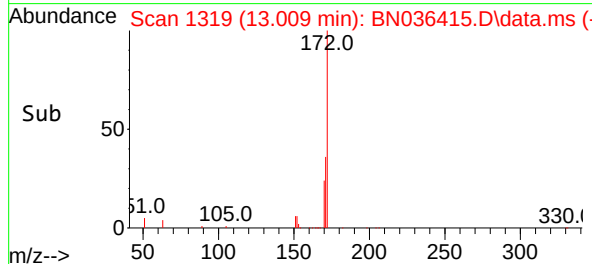
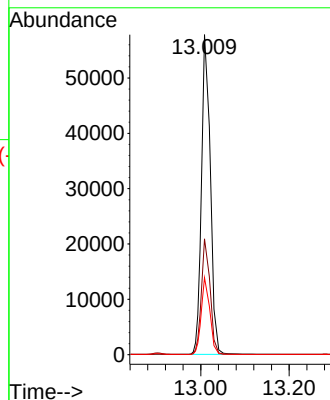
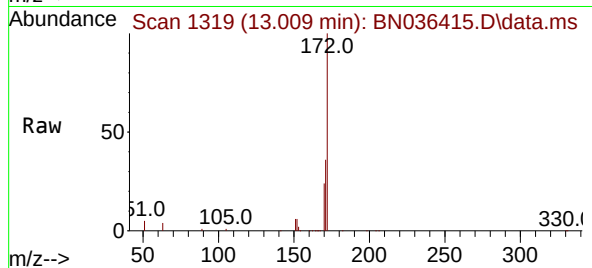




#15
2-Fluorobiphenyl
Concen: 4.567 ng
RT: 13.009 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

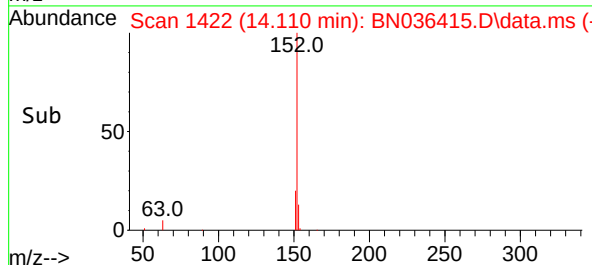
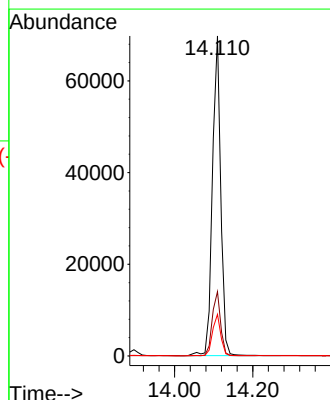
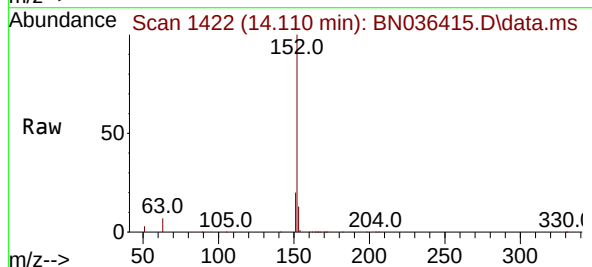
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

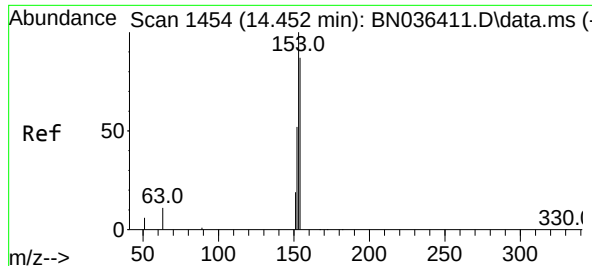
Tgt Ion:172 Resp: 88478
Ion Ratio Lower Upper
172 100
171 36.2 29.6 44.4
170 24.0 19.8 29.6



#16
Acenaphthylene
Concen: 4.917 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:152 Resp: 103358
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.8
153 12.9 10.2 15.2

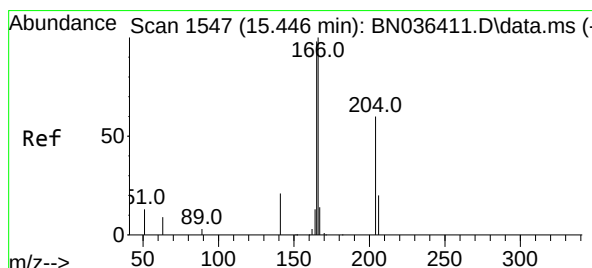
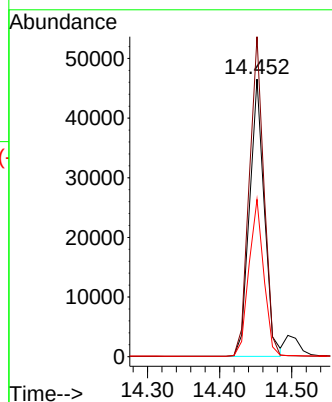
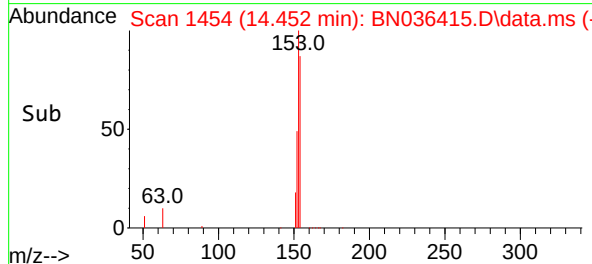
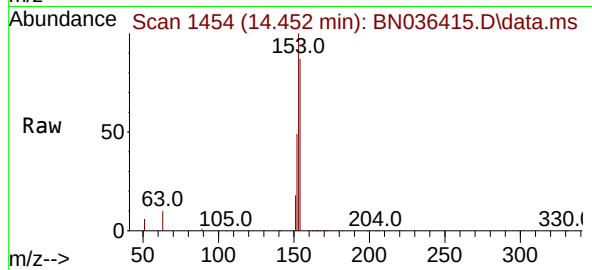




#17
Acenaphthene
Concen: 4.612 ng
RT: 14.452 min Scan# 1454
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

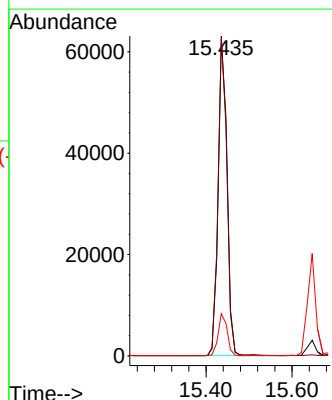
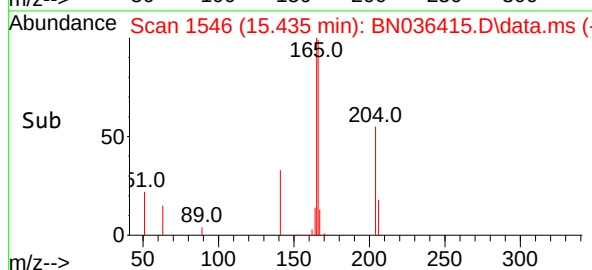
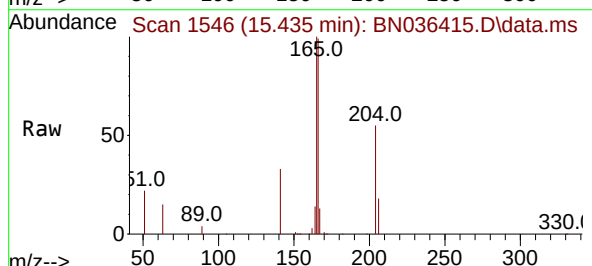
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

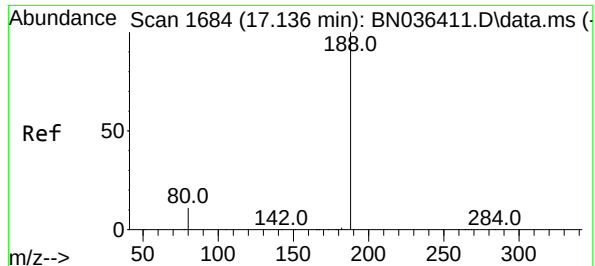
Tgt Ion:154 Resp: 66375
Ion Ratio Lower Upper
154 100
153 114.4 93.3 139.9
152 57.1 48.8 73.2



#18
Fluorene
Concen: 5.045 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:166 Resp: 93442
Ion Ratio Lower Upper
166 100
165 95.5 79.5 119.3
167 12.8 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

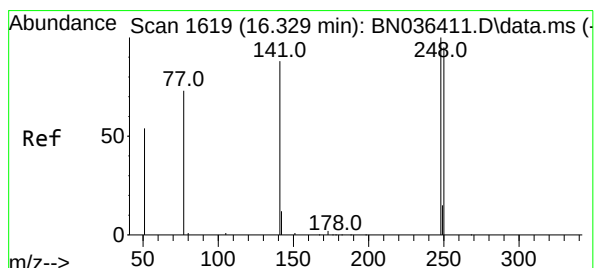
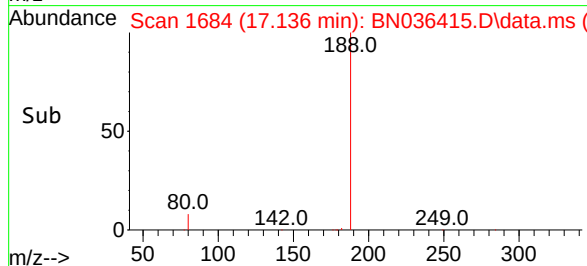
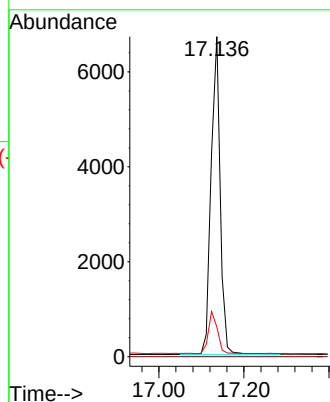
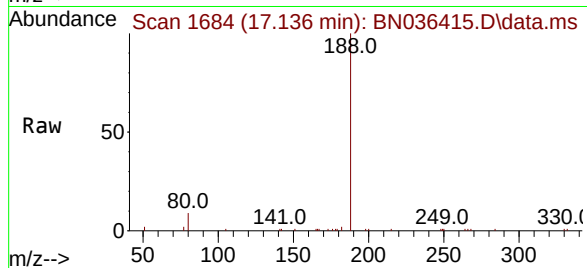
Tgt Ion:188 Resp: 9953

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 9.8 14.6#



#21

4-Bromophenyl-phenylether

Concen: 4.334 ng

RT: 16.329 min Scan# 1619

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

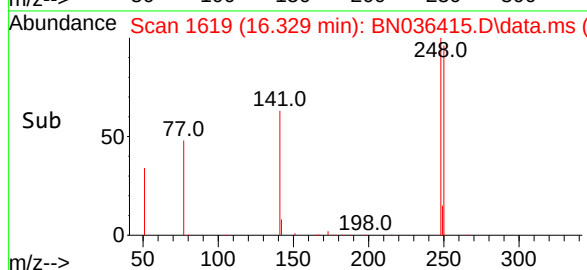
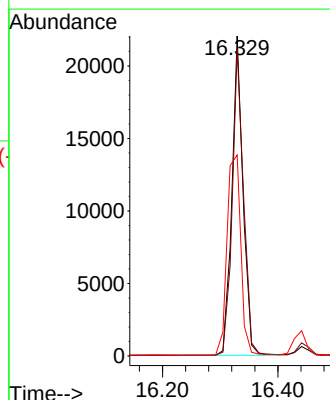
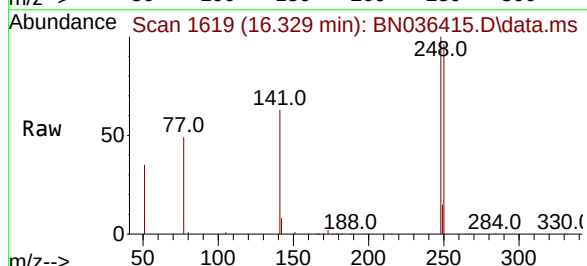
Tgt Ion:248 Resp: 29550

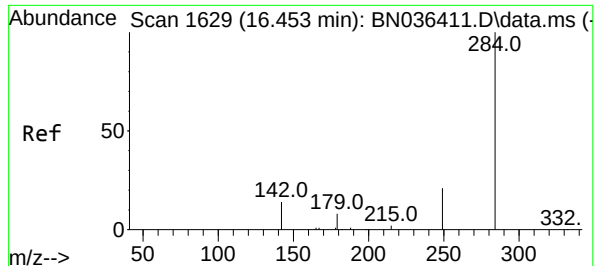
Ion Ratio Lower Upper

248 100

250 95.8 76.1 114.1

141 62.8 71.7 107.5#





#22

Hexachlorobenzene

Concen: 3.983 ng

RT: 16.441 min Scan# 1628

Delta R.T. -0.012 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

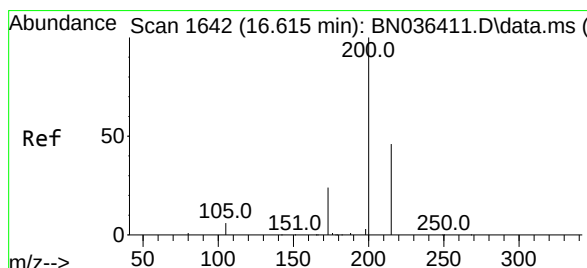
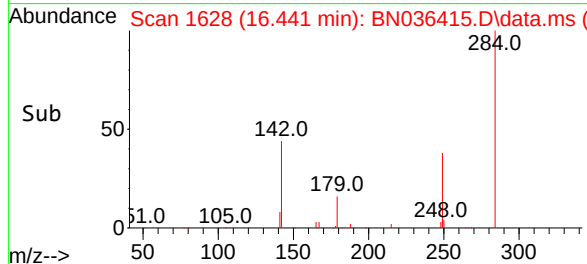
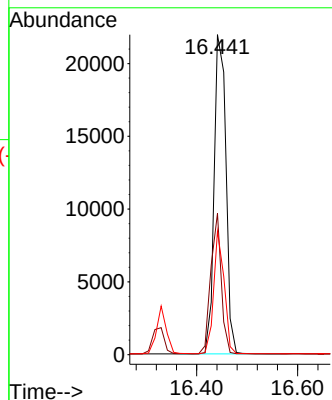
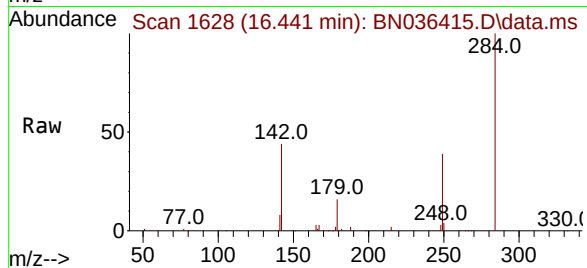
Tgt Ion:284 Resp: 35446

Ion Ratio Lower Upper

284 100

142 39.2 33.4 50.0

249 34.2 28.6 43.0



#23

Atrazine

Concen: 5.288 ng

RT: 16.602 min Scan# 1641

Delta R.T. -0.012 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

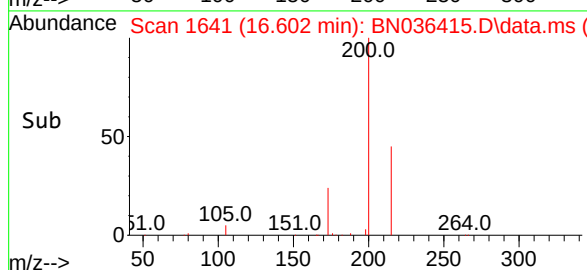
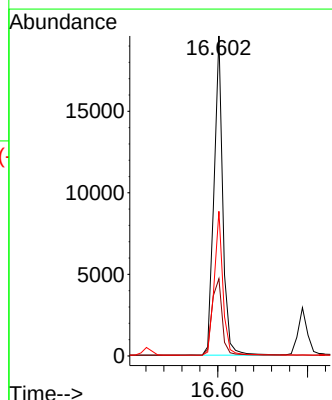
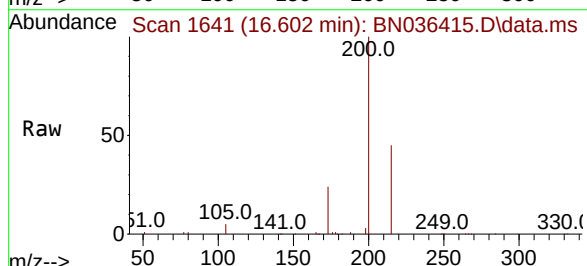
Tgt Ion:200 Resp: 26508

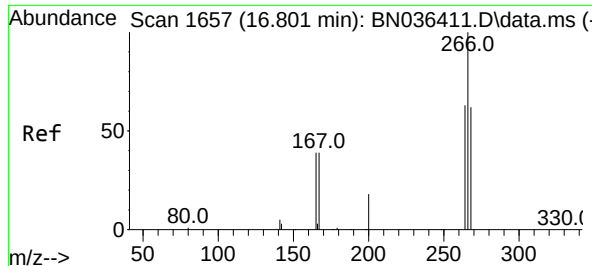
Ion Ratio Lower Upper

200 100

173 24.1 23.2 34.8

215 45.2 40.0 60.0

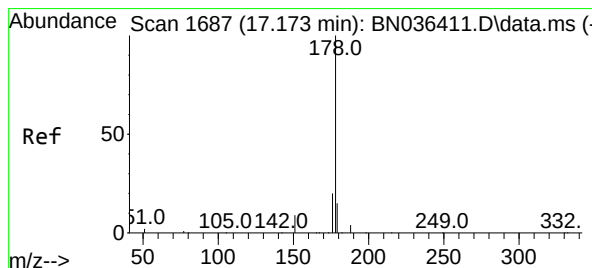
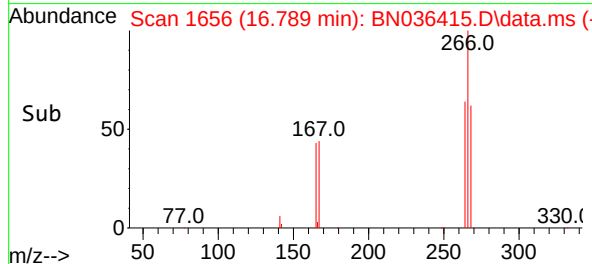
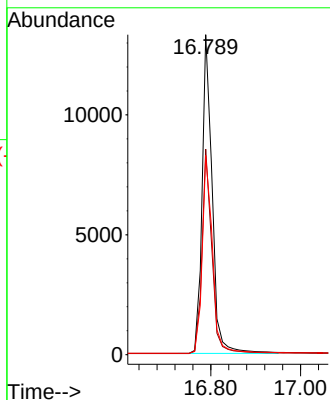
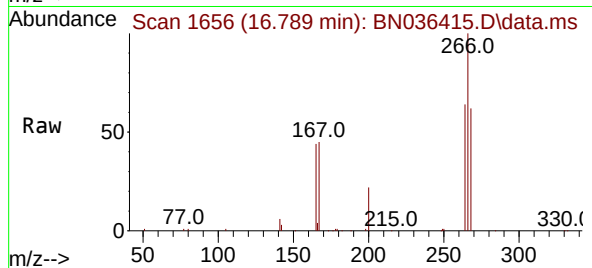




#24
Pentachlorophenol
Concen: 5.340 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

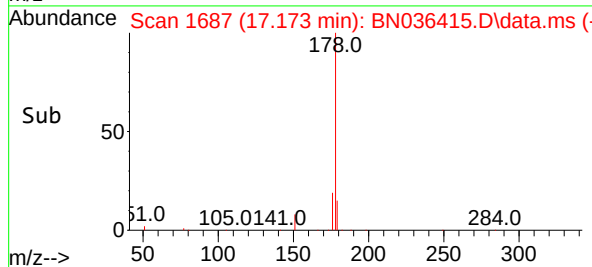
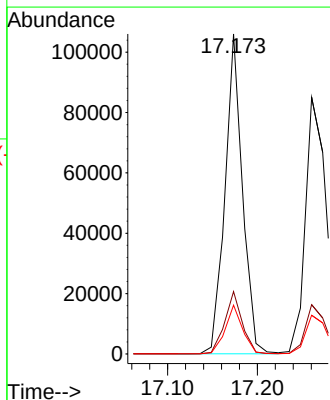
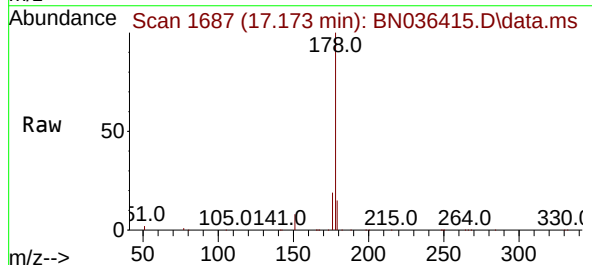
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

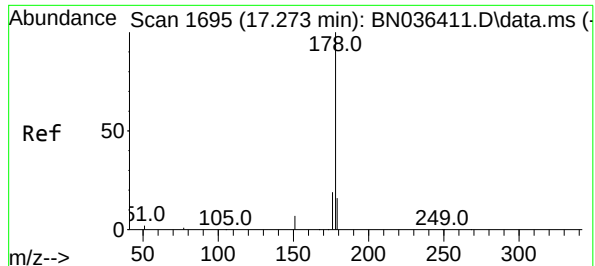
Tgt Ion:266 Resp: 20784
Ion Ratio Lower Upper
266 100
264 63.1 50.6 76.0
268 63.4 51.9 77.9



#25
Phenanthrene
Concen: 4.916 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:178 Resp: 143424
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.2 12.4 18.6

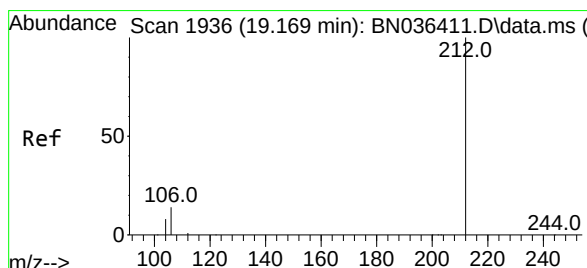
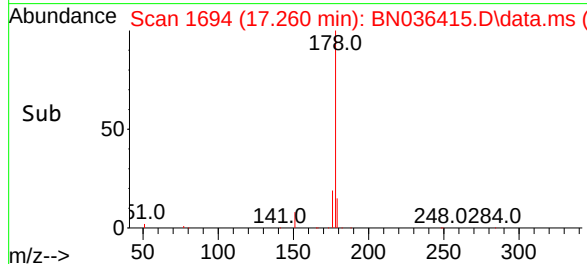
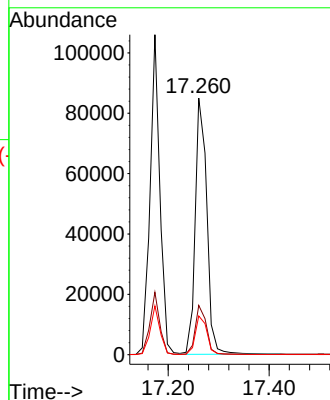
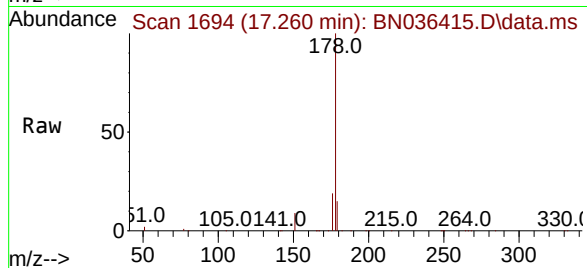




#26
Anthracene
Concen: 5.105 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

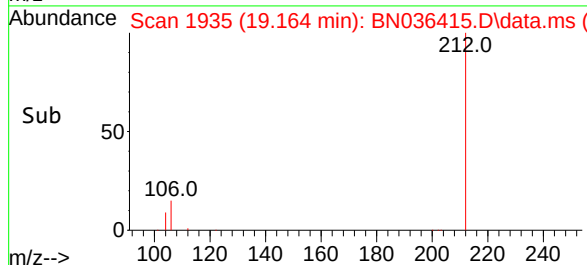
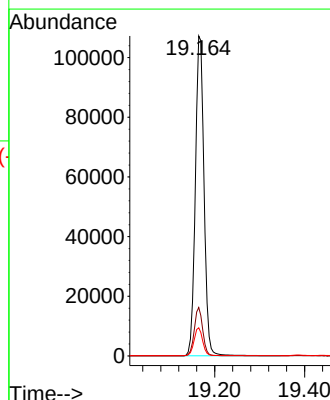
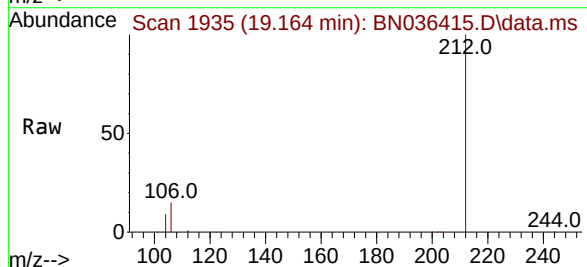
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

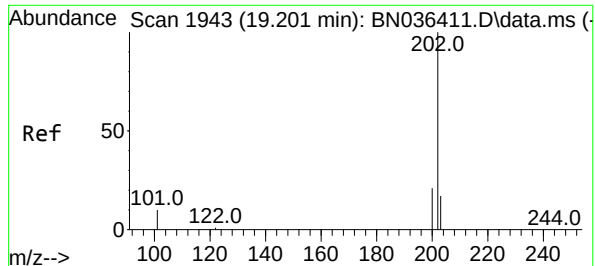
Tgt Ion:178 Resp: 135332
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.2 12.4 18.6



#27
Fluoranthene-d10
Concen: 5.615 ng
RT: 19.164 min Scan# 1935
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:212 Resp: 143795
Ion Ratio Lower Upper
212 100
106 14.7 11.5 17.3
104 8.6 7.1 10.7

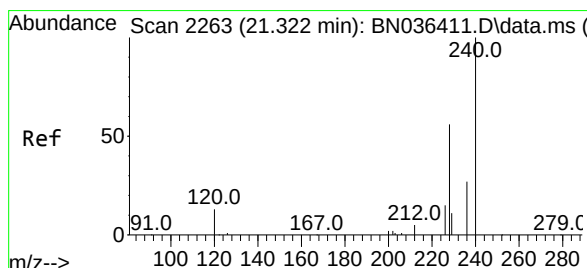
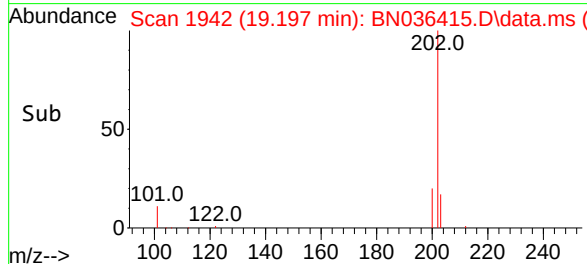
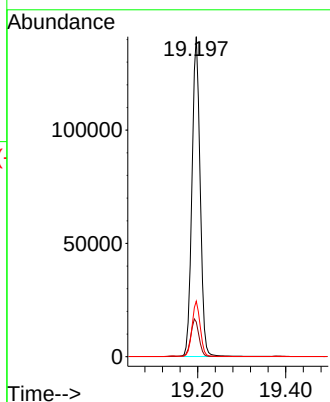
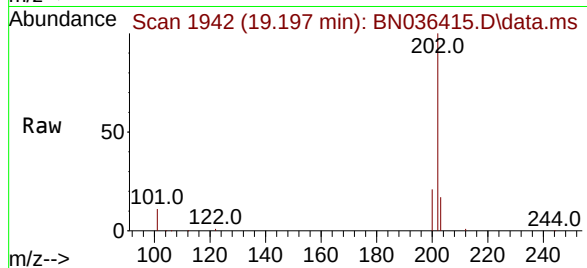




#28
Fluoranthene
Concen: 5.257 ng
RT: 19.197 min Scan# 1943
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

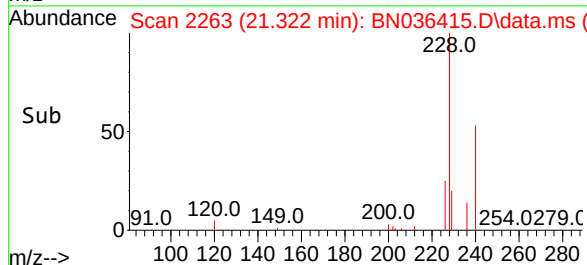
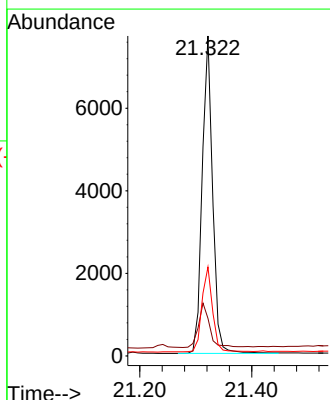
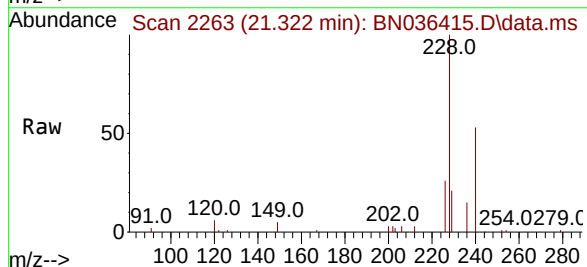
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

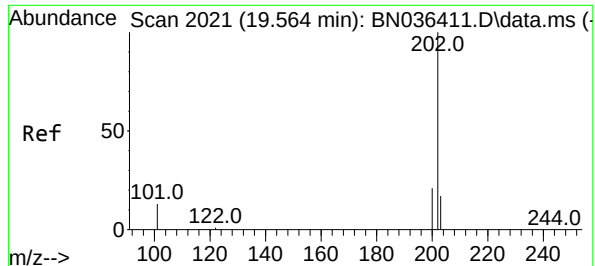
Tgt Ion:202 Resp: 181794
Ion Ratio Lower Upper
202 100
101 12.0 9.2 13.8
203 17.3 13.4 20.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.322 min Scan# 2263
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:240 Resp: 9960
Ion Ratio Lower Upper
240 100
120 11.8 13.3 19.9#
236 27.8 23.0 34.6

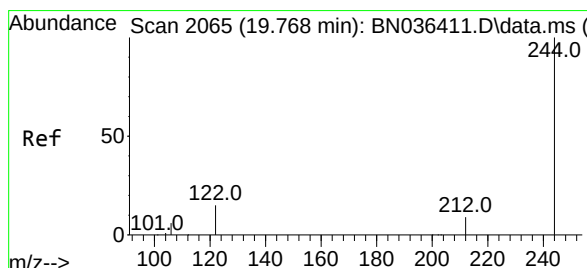
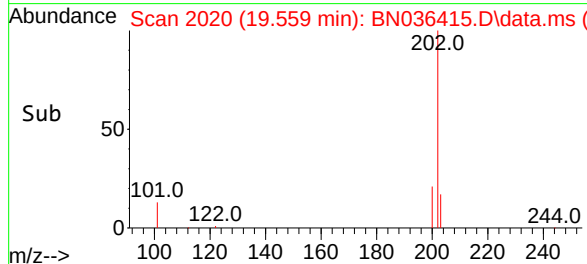
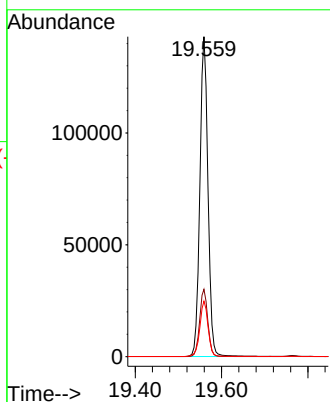
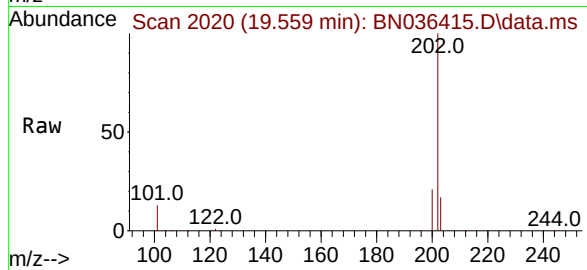




#30
Pyrene
Concen: 4.666 ng
RT: 19.559 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

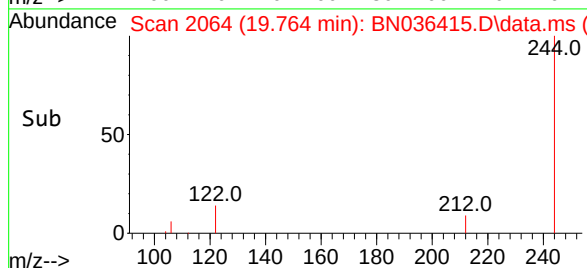
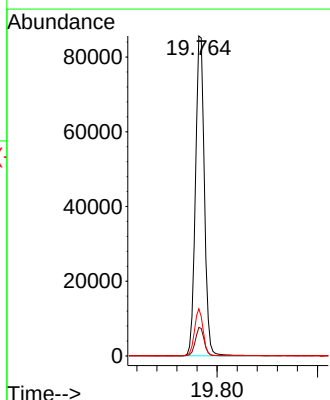
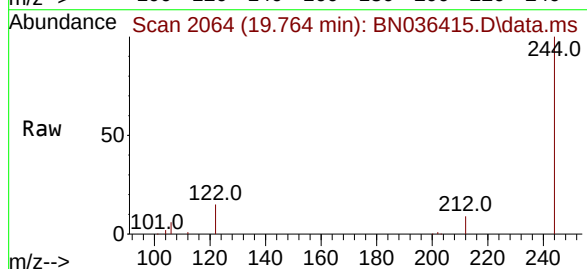
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

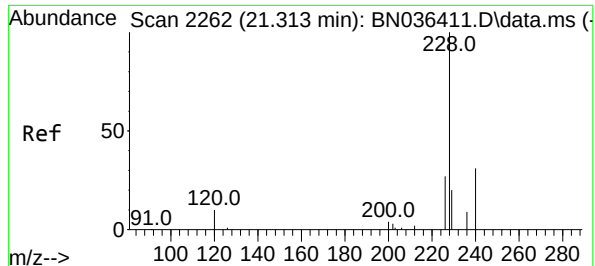
Tgt Ion:202 Resp: 185711
Ion Ratio Lower Upper
202 100
200 21.2 16.9 25.3
203 17.7 13.9 20.9



#31
Terphenyl-d14
Concen: 5.088 ng
RT: 19.764 min Scan# 2064
Delta R.T. -0.005 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:244 Resp: 104936
Ion Ratio Lower Upper
244 100
212 8.9 8.1 12.1
122 14.8 12.8 19.2





#32

Benzo(a)anthracene

Concen: 4.790 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

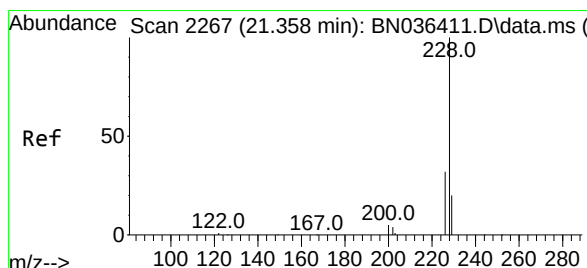
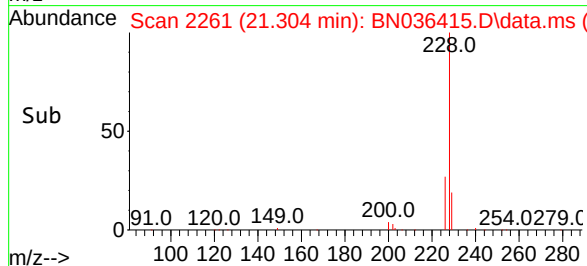
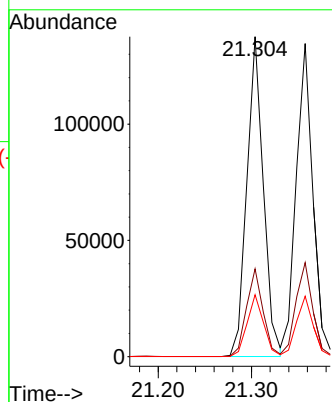
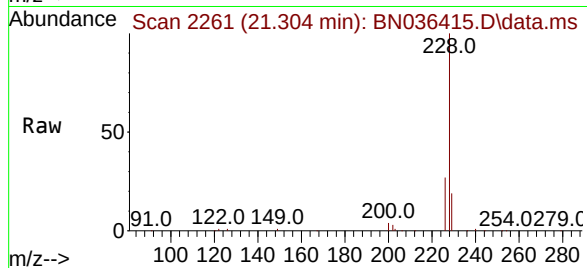
Tgt Ion:228 Resp: 169514

Ion Ratio Lower Upper

228 100

226 27.5 22.2 33.2

229 19.4 16.5 24.7



#33

Chrysene

Concen: 4.687 ng

RT: 21.358 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

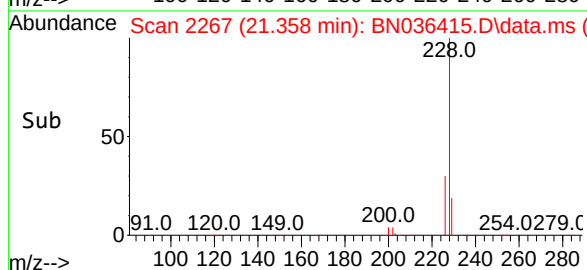
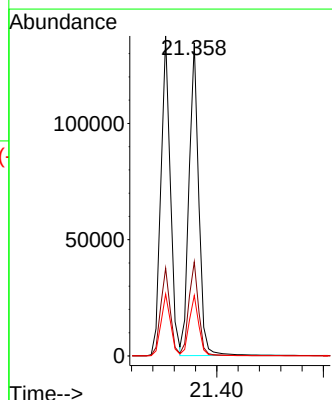
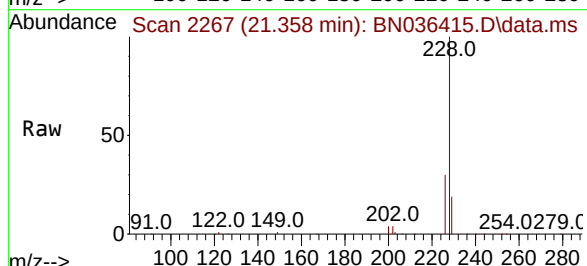
Tgt Ion:228 Resp: 170028

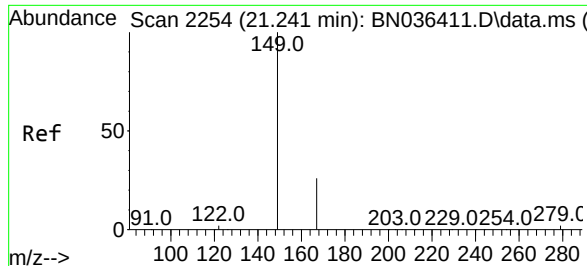
Ion Ratio Lower Upper

228 100

226 30.0 25.5 38.3

229 19.3 16.4 24.6

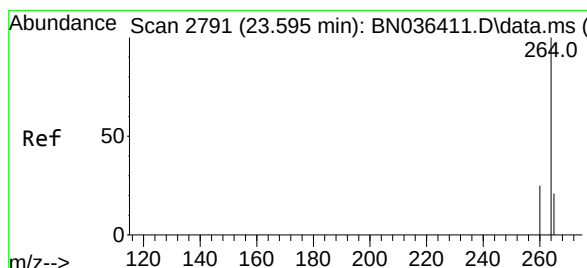
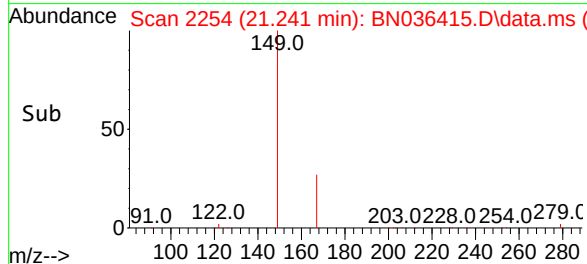
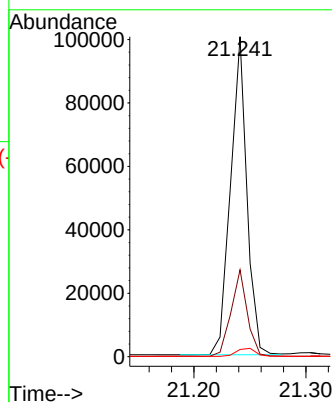
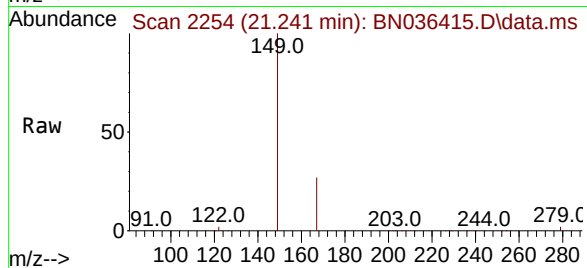




#34
Bis(2-ethylhexyl)phthalate
Concen: 5.168 ng
RT: 21.241 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

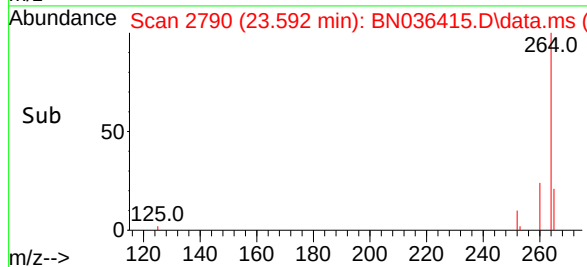
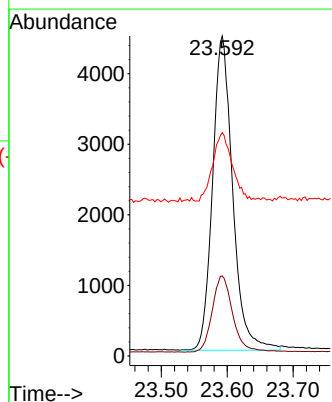
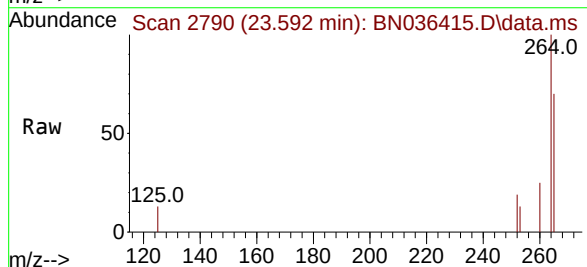
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

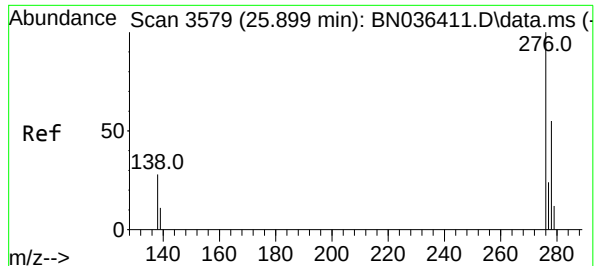
Tgt Ion:149 Resp: 101929
Ion Ratio Lower Upper
149 100
167 26.9 21.2 31.8
279 2.9 2.7 4.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.592 min Scan# 2790
Delta R.T. -0.003 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:264 Resp: 9411
Ion Ratio Lower Upper
264 100
260 25.0 20.9 31.3
265 69.8 60.7 91.1





#36

Indeno(1,2,3-cd)pyrene

Concen: 4.679 ng

RT: 25.890 min Scan# 3579

Delta R.T. -0.009 min

Lab File: BN036415.D

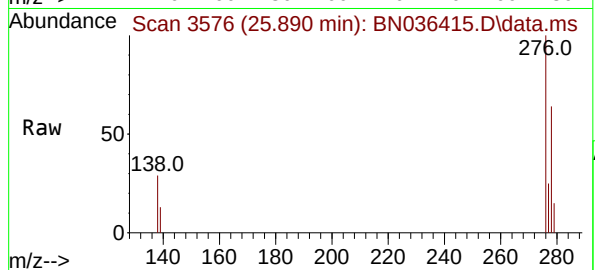
Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



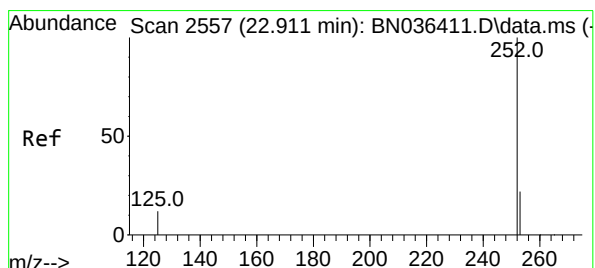
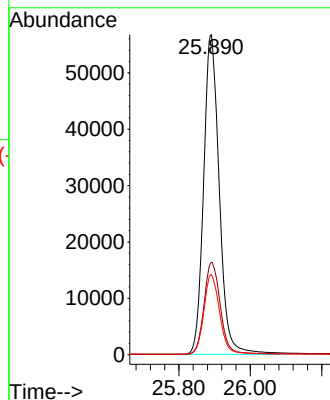
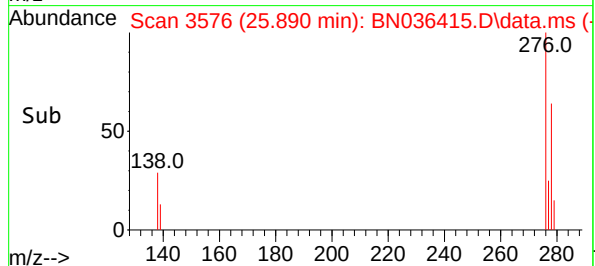
Tgt Ion:276 Resp: 172989

Ion Ratio Lower Upper

276 100

138 30.0 22.2 33.2

277 25.2 19.8 29.6



#37

Benzo(b)fluoranthene

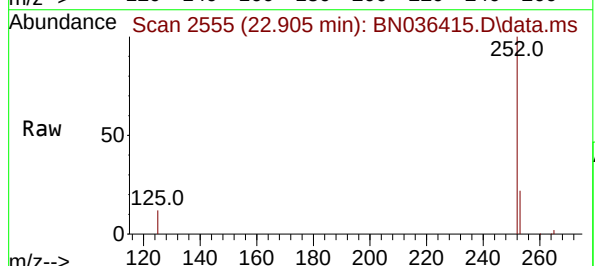
Concen: 4.986 ng

RT: 22.905 min Scan# 2555

Delta R.T. -0.006 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00



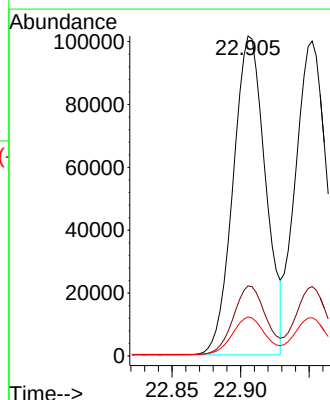
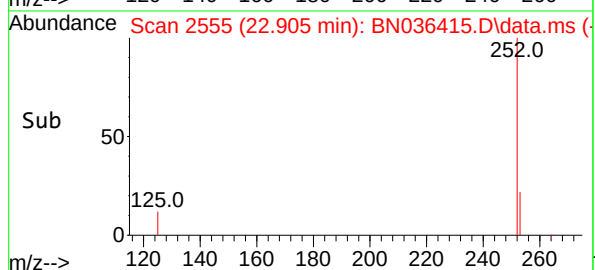
Tgt Ion:252 Resp: 166596

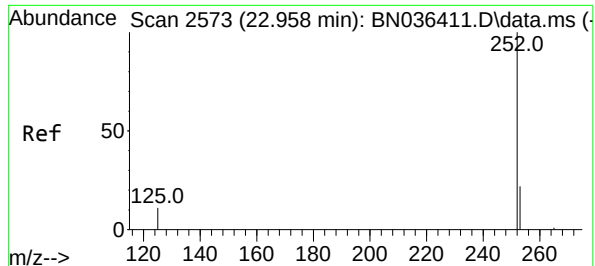
Ion Ratio Lower Upper

252 100

253 21.9 21.9 32.9#

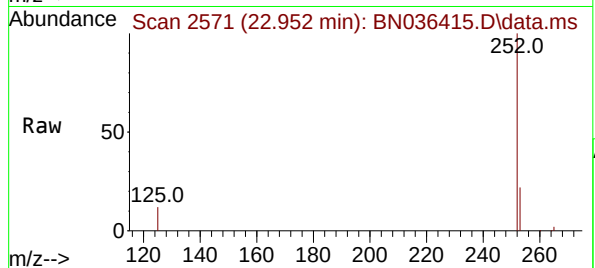
125 12.2 15.0 22.6#



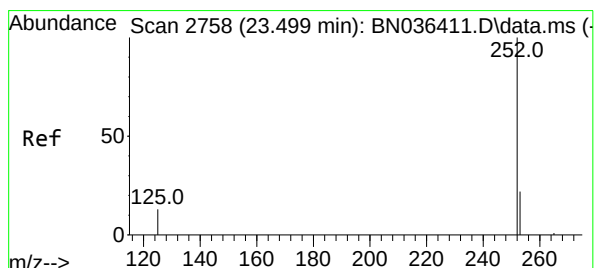
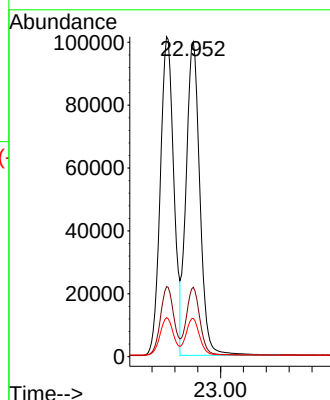
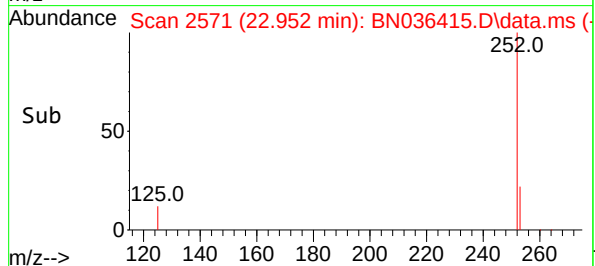


#38
Benzo(k)fluoranthene
Concen: 4.879 ng
RT: 22.952 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

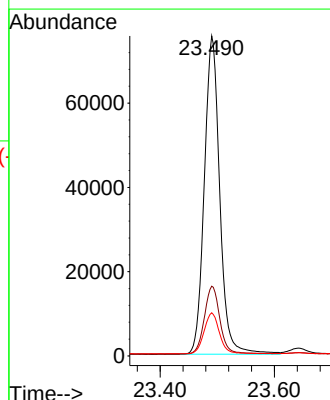
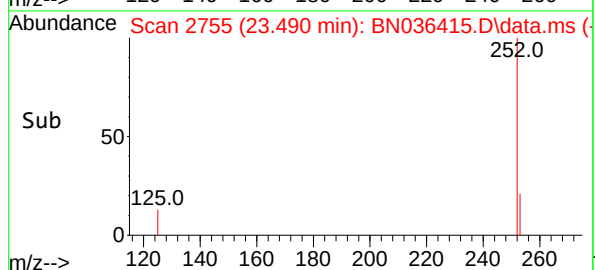
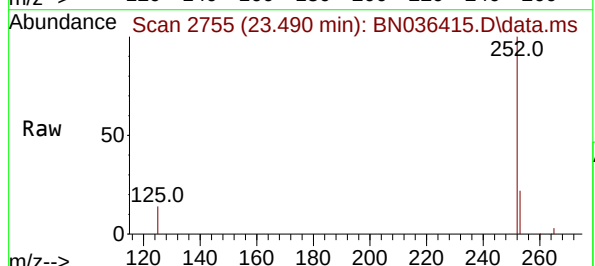


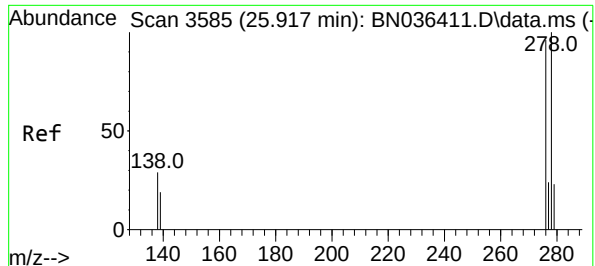
Tgt Ion:252 Resp: 166186
Ion Ratio Lower Upper
252 100
253 22.0 22.2 33.4#
125 12.1 15.0 22.4#



#39
Benzo(a)pyrene
Concen: 4.947 ng
RT: 23.490 min Scan# 2755
Delta R.T. -0.009 min
Lab File: BN036415.D
Acq: 10 Feb 2025 16:00

Tgt Ion:252 Resp: 141837
Ion Ratio Lower Upper
252 100
253 21.8 24.4 36.6#
125 13.5 18.2 27.2#





#40

Dibenzo(a,h)anthracene

Concen: 4.709 ng

RT: 25.905 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

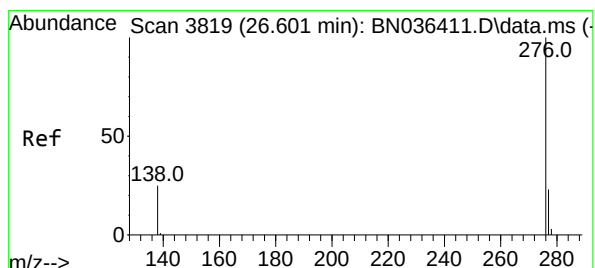
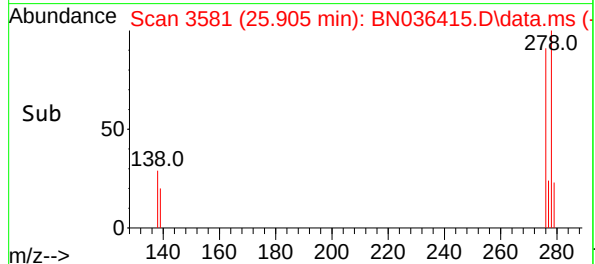
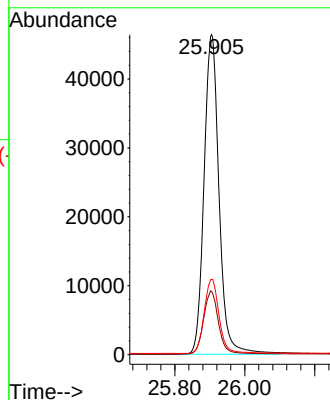
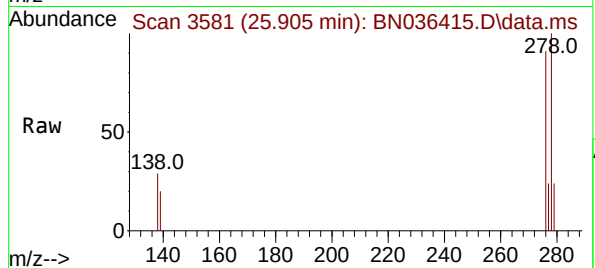
Tgt Ion:278 Resp: 138330

Ion Ratio Lower Upper

278 100

139 19.8 18.5 27.7

279 23.5 24.8 37.2#



#41

Benzo(g,h,i)perylene

Concen: 4.557 ng

RT: 26.595 min Scan# 3817

Delta R.T. -0.006 min

Lab File: BN036415.D

Acq: 10 Feb 2025 16:00

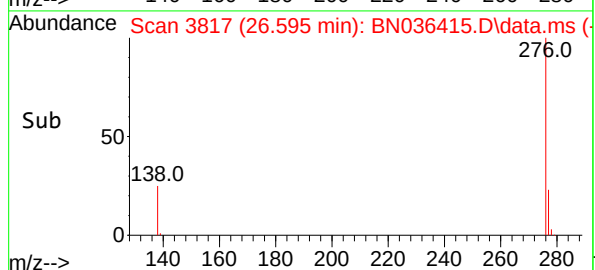
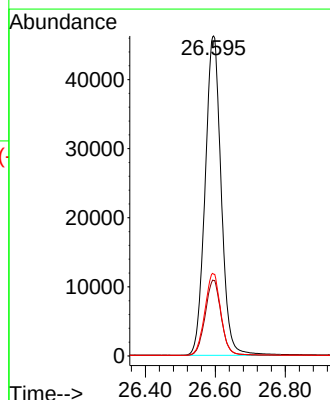
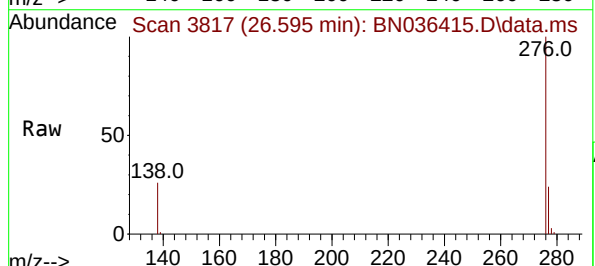
Tgt Ion:276 Resp: 146932

Ion Ratio Lower Upper

276 100

277 23.6 20.7 31.1

138 25.5 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
 Data File : BN036416.D
 Acq On : 10 Feb 2025 16:36
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN021025

Quant Time: Feb 11 01:25:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

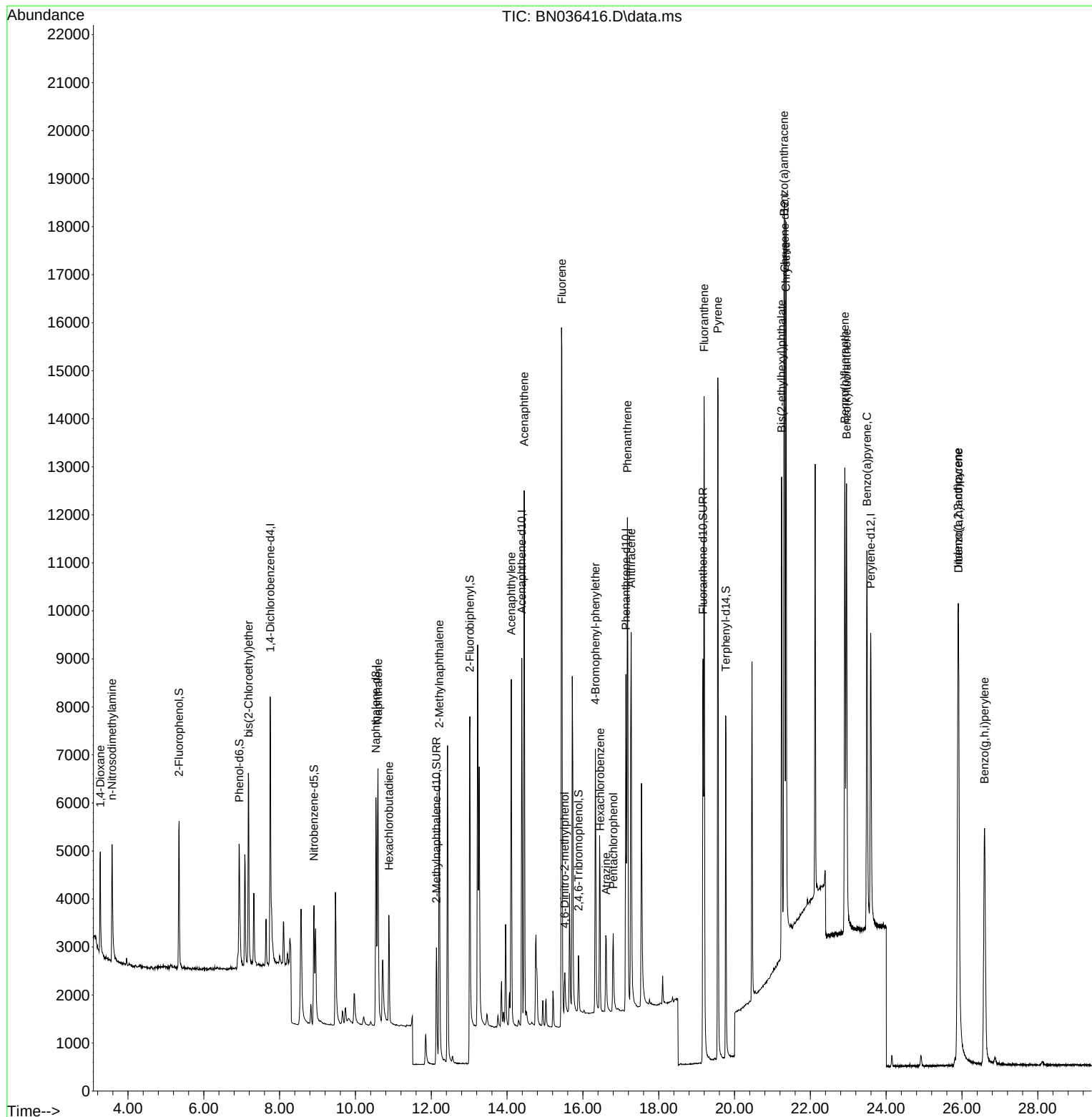
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.753	152	2722	0.400	ng	0.00
7) Naphthalene-d8	10.541	136	6737	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	4328	0.400	ng	0.00
19) Phenanthrene-d10	17.136	188	9717	0.400	ng	0.00
29) Chrysene-d12	21.322	240	8903	0.400	ng	0.00
35) Perylene-d12	23.592	264	8977	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.348	112	2386	0.371	ng	0.00
5) Phenol-d6	6.937	99	2616	0.347	ng	0.00
8) Nitrobenzene-d5	8.907	82	2386	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	12.136	152	4026	0.389	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	713	0.332	ng	0.00
15) 2-Fluorobiphenyl	13.019	172	6616	0.407	ng	0.00
27) Fluoranthene-d10	19.169	212	10243	0.379	ng	0.00
31) Terphenyl-d14	19.768	244	7744	0.407	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.268	88	1221	0.410	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.579	42	1993	0.385	ng	96
6) bis(2-Chloroethyl)ether	7.183	93	3230	0.409	ng	96
9) Naphthalene	10.594	128	7554	0.389	ng	99
10) Hexachlorobutadiene	10.882	225	1910	0.404	ng	# 99
12) 2-Methylnaphthalene	12.212	142	5146	0.404	ng	98
16) Acenaphthylene	14.110	152	8061	0.422	ng	100
17) Acenaphthene	14.452	154	5199	0.407	ng	99
18) Fluorene	15.446	166	7222	0.397	ng	98
20) 4,6-Dinitro-2-methylph...	15.522	198	664	0.348	ng	92
21) 4-Bromophenyl-phenylether	16.329	248	2290	0.395	ng	96
22) Hexachlorobenzene	16.453	284	2904	0.406	ng	97
23) Atrazine	16.615	200	1916	0.396	ng	98
24) Pentachlorophenol	16.801	266	1075	0.316	ng	99
25) Phenanthrene	17.173	178	11446	0.408	ng	100
26) Anthracene	17.273	178	10171	0.411	ng	99
28) Fluoranthene	19.197	202	13415	0.389	ng	100
30) Pyrene	19.559	202	13881	0.405	ng	100
32) Benzo(a)anthracene	21.304	228	11819	0.403	ng	99
33) Chrysene	21.357	228	13425	0.423	ng	98
34) Bis(2-ethylhexyl)phtha...	21.241	149	6985	0.383	ng	98
36) Indeno(1,2,3-cd)pyrene	25.896	276	13738	0.438	ng	100
37) Benzo(b)fluoranthene	22.908	252	12283	0.415	ng	97
38) Benzo(k)fluoranthene	22.955	252	13099	0.430	ng	97
39) Benzo(a)pyrene	23.493	252	11703	0.454	ng	95
40) Dibenzo(a,h)anthracene	25.908	278	10585	0.427	ng	96
41) Benzo(g,h,i)perylene	26.595	276	10921	0.389	ng	98

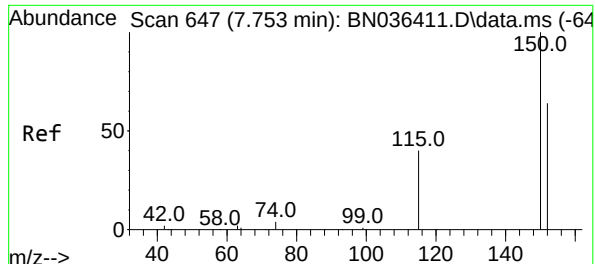
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036416.D
Acq On : 10 Feb 2025 16:36
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

Quant Time: Feb 11 01:25:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

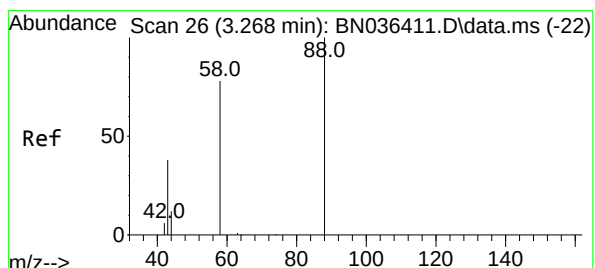
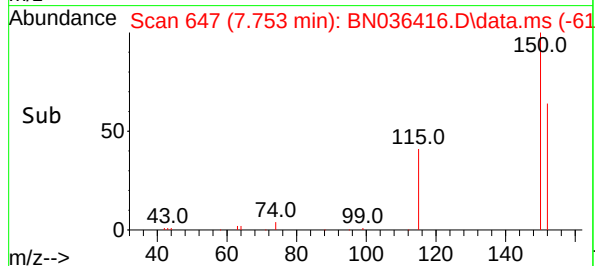
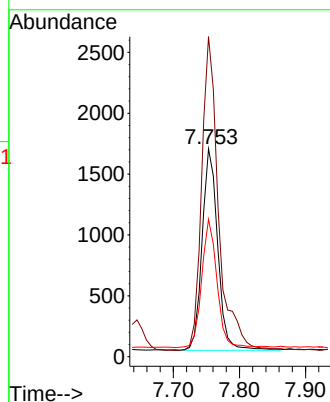
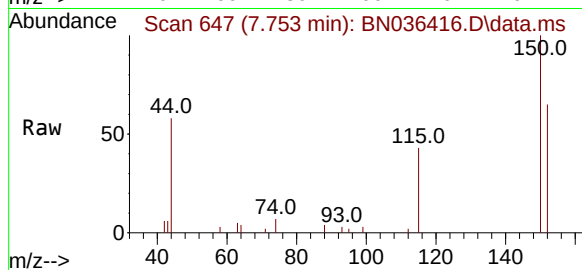




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.753 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

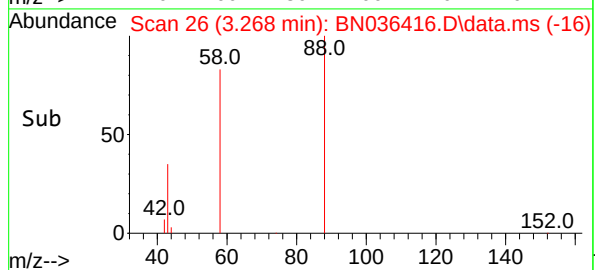
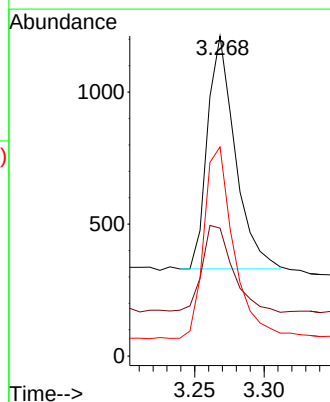
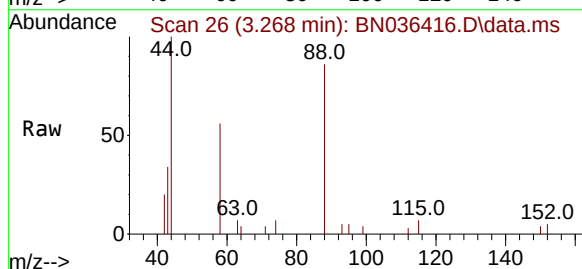
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

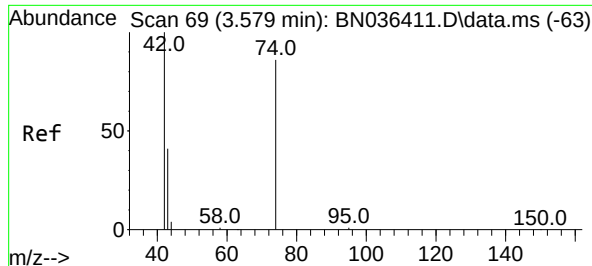
Tgt Ion:152 Resp: 2722
Ion Ratio Lower Upper
152 100
150 154.0 123.7 185.5
115 66.1 52.5 78.7



#2
1,4-Dioxane
Concen: 0.410 ng
RT: 3.268 min Scan# 26
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion: 88 Resp: 1221
Ion Ratio Lower Upper
88 100
43 41.8 33.7 50.5
58 89.2 68.9 103.3

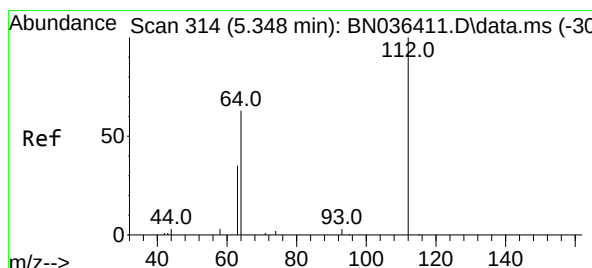
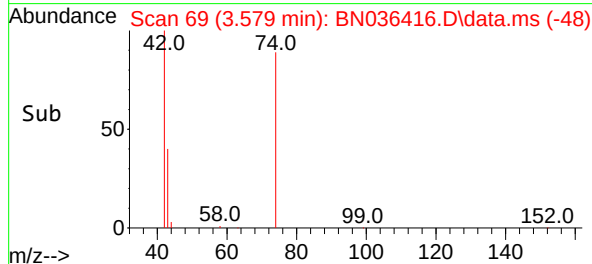
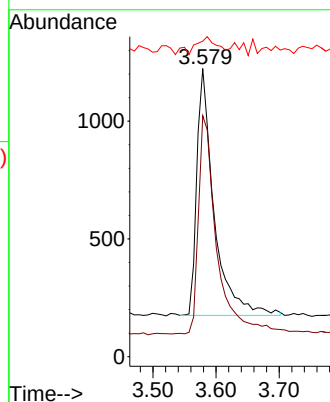
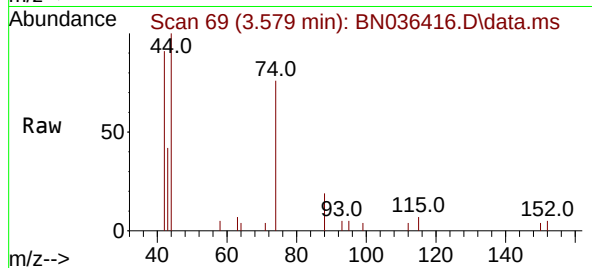




#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.579 min Scan# 69
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

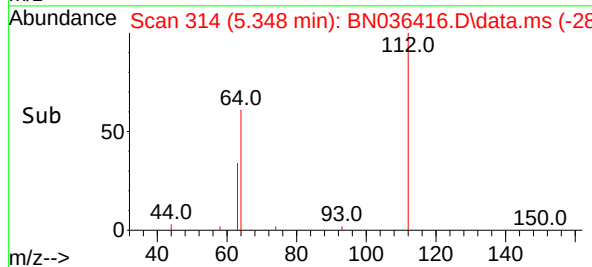
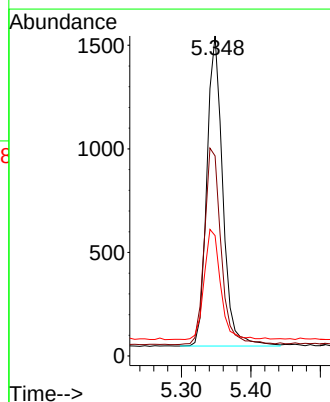
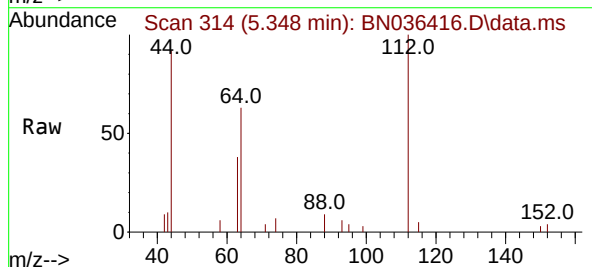
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

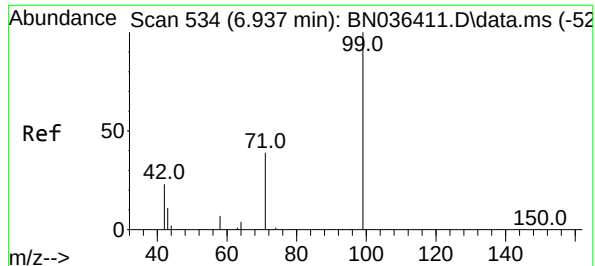
Tgt Ion: 42 Resp: 1993
Ion Ratio Lower Upper
42 100
74 93.5 71.8 107.6
44 7.9 7.8 11.6



#4
2-Fluorophenol
Concen: 0.371 ng
RT: 5.348 min Scan# 314
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion: 112 Resp: 2386
Ion Ratio Lower Upper
112 100
64 66.4 53.4 80.0
63 36.3 30.3 45.5

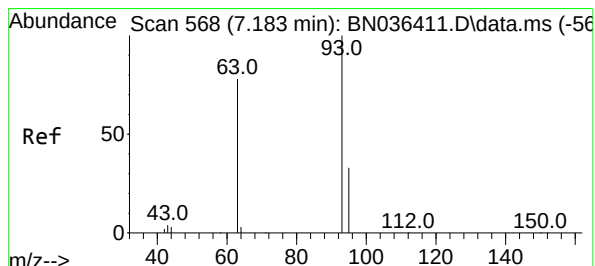
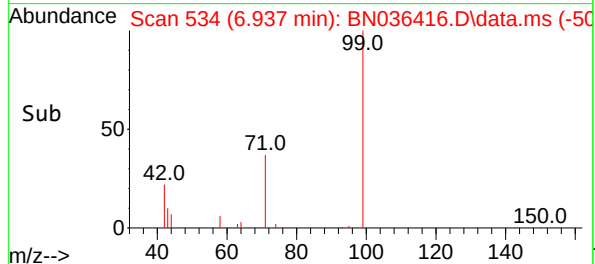
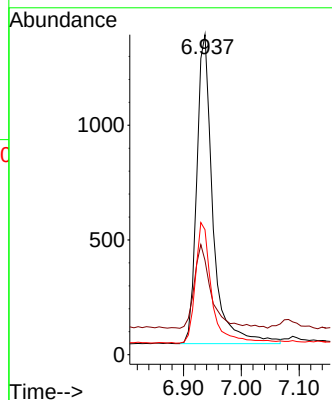
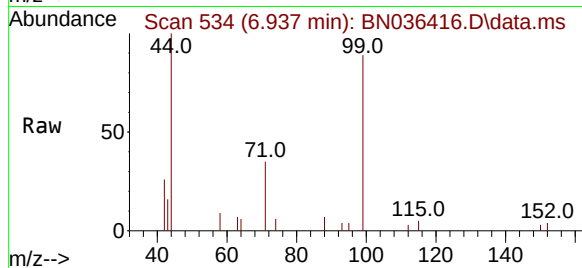




#5
Phenol-d6
Concen: 0.347 ng
RT: 6.937 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

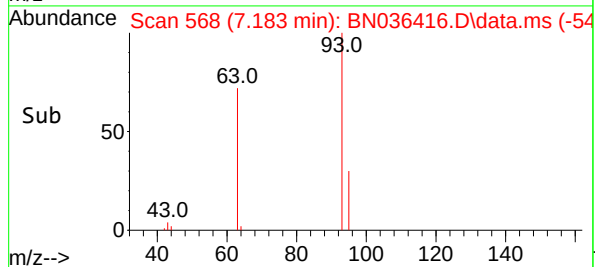
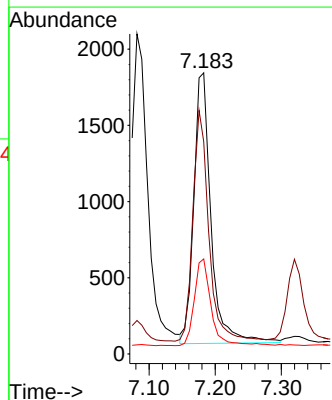
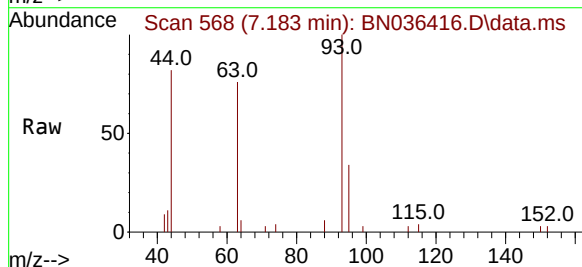
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

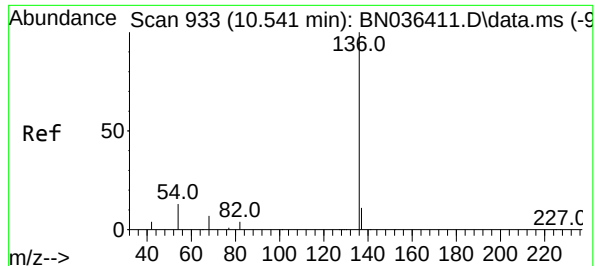
Tgt Ion:	99	Resp:	2616
Ion	Ratio	Lower	Upper
99	100		
42	28.4	21.7	32.5
71	39.6	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.409 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:	93	Resp:	3230
Ion	Ratio	Lower	Upper
93	100		
63	78.7	66.3	99.5
95	31.0	26.2	39.4

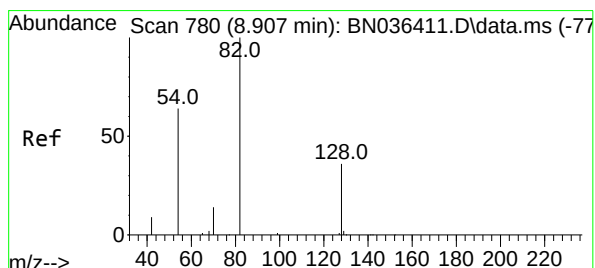
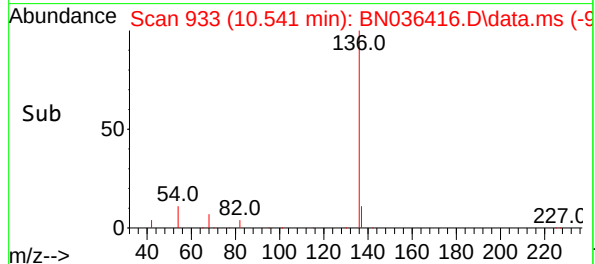
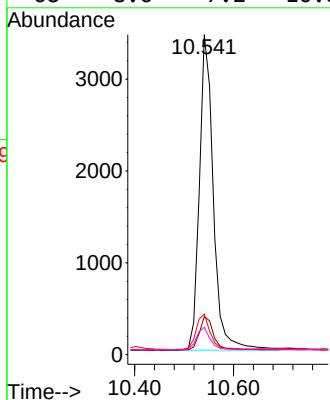
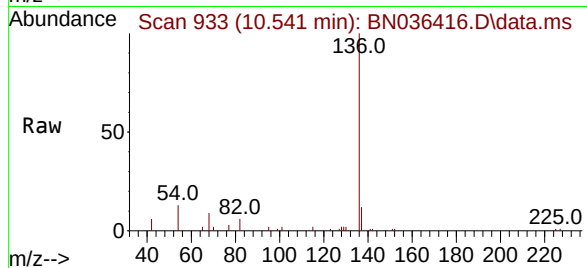




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.541 min Scan# 911
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

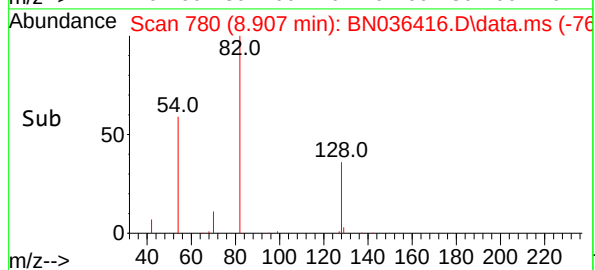
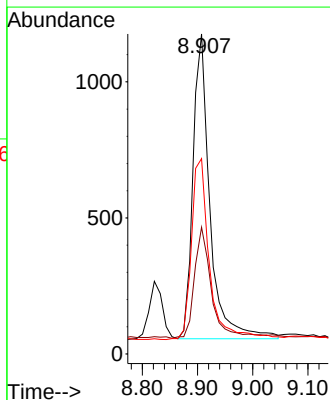
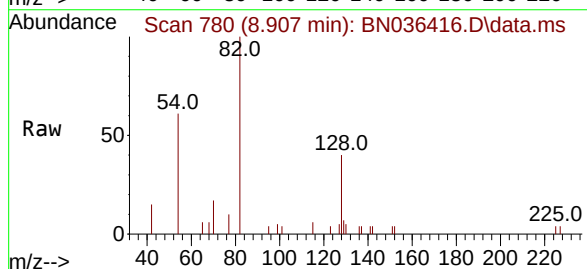
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

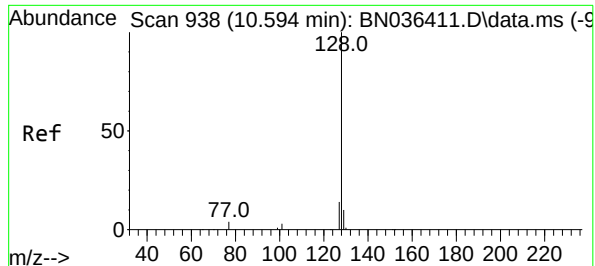
Tgt Ion:	136	Resp:	6737
Ion	Ratio	Lower	Upper
136	100		
137	11.9	10.1	15.1
54	12.7	11.8	17.6
68	8.6	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:	82	Resp:	2386
Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.9	47.9
54	61.1	53.1	79.7





#9

Naphthalene

Concen: 0.389 ng

RT: 10.594 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

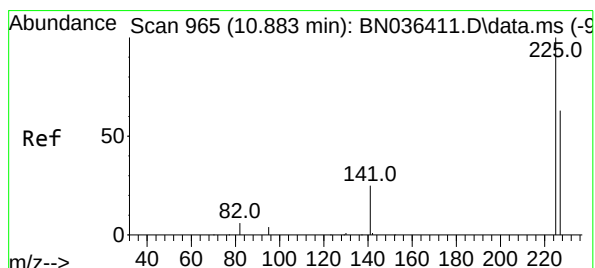
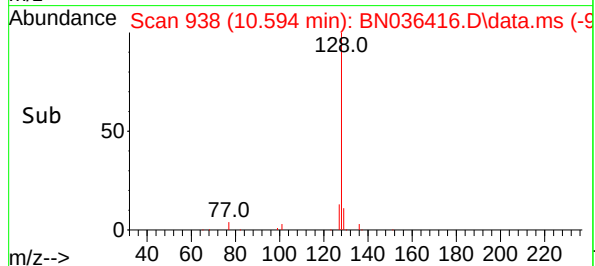
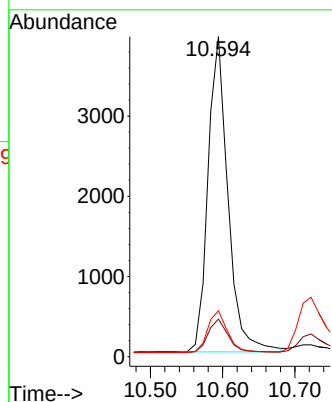
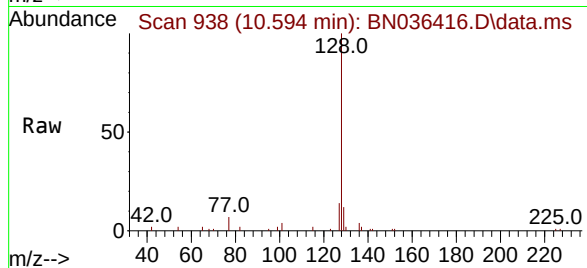
Tgt Ion:128 Resp: 7554

Ion Ratio Lower Upper

128 100

129 11.8 9.6 14.4

127 14.3 12.0 18.0



#10

Hexachlorobutadiene

Concen: 0.404 ng

RT: 10.882 min Scan# 965

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

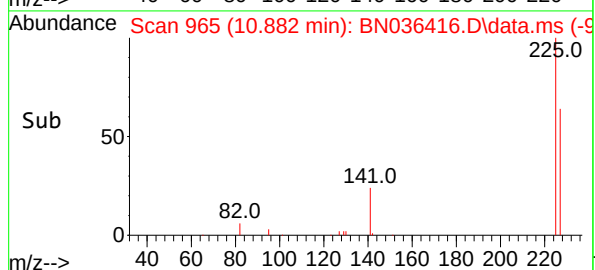
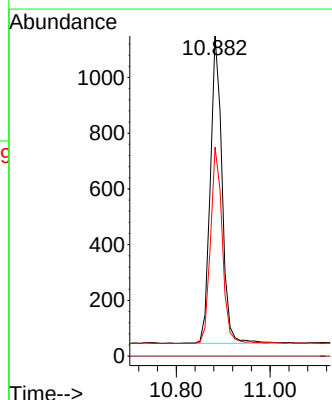
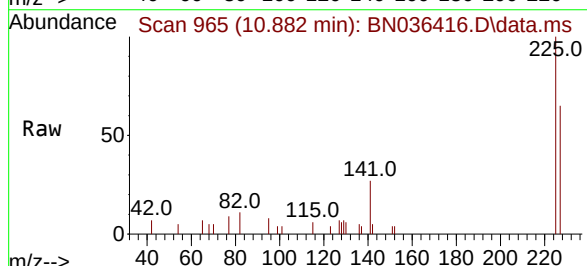
Tgt Ion:225 Resp: 1910

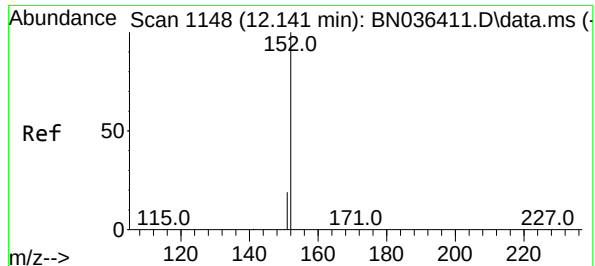
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.6 50.9 76.3

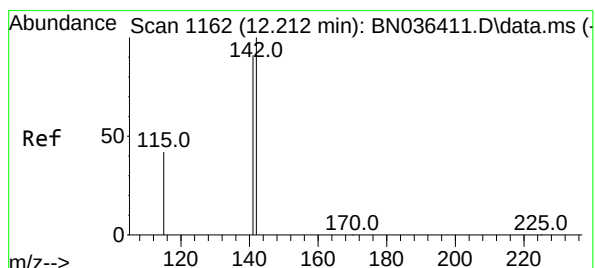
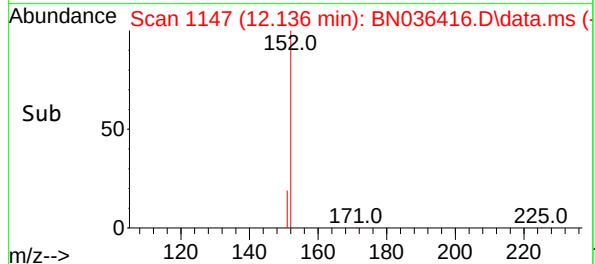
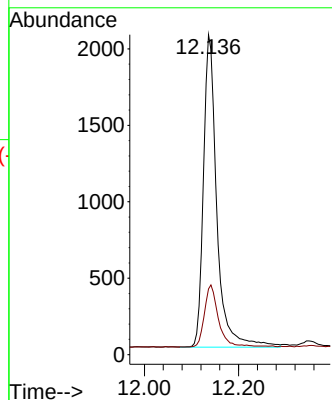
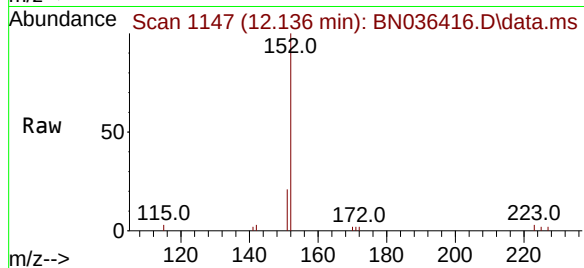




#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 12.136 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

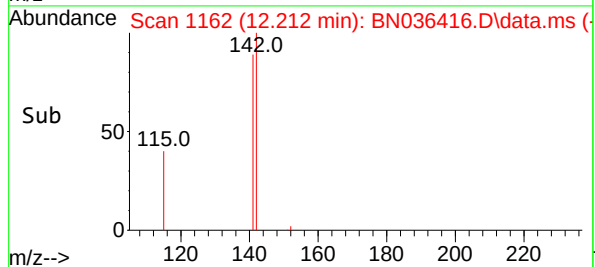
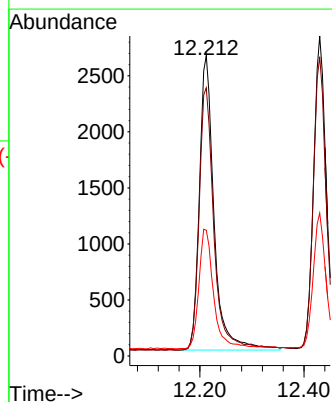
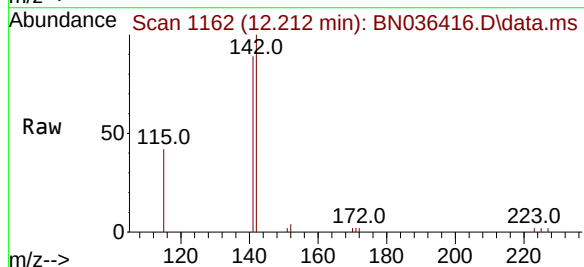
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

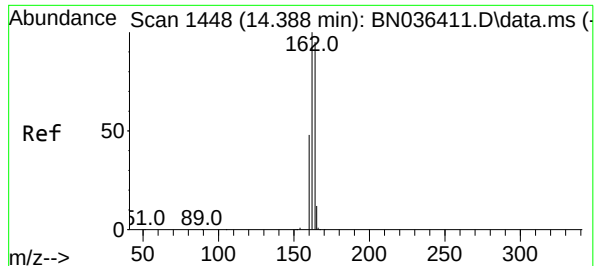
Tgt Ion:152 Resp: 4026
Ion Ratio Lower Upper
152 100
151 20.9 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.404 ng
RT: 12.212 min Scan# 1162
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:142 Resp: 5146
Ion Ratio Lower Upper
142 100
141 89.3 72.8 109.2
115 41.9 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.388 min Scan# 1448

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

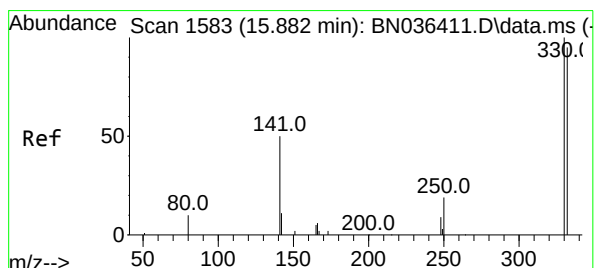
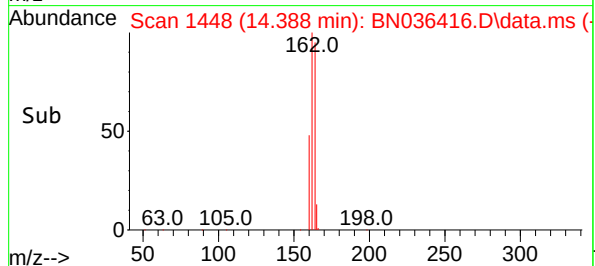
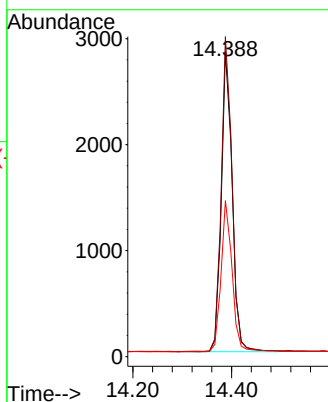
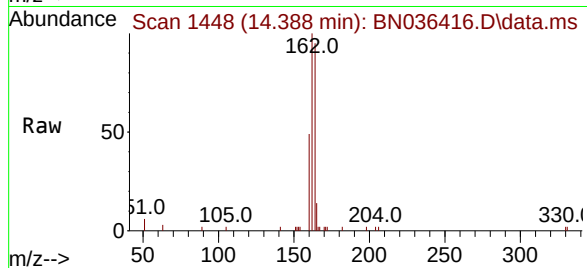
Tgt Ion:164 Resp: 4328

Ion Ratio Lower Upper

164 100

162 104.9 84.1 126.1

160 51.1 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 0.332 ng

RT: 15.882 min Scan# 1583

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

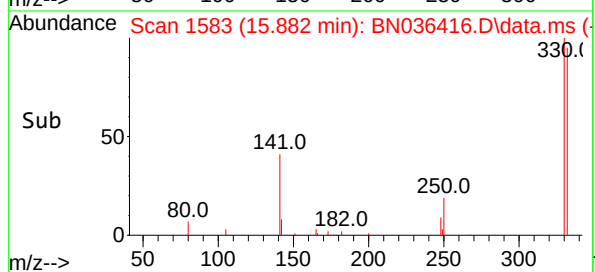
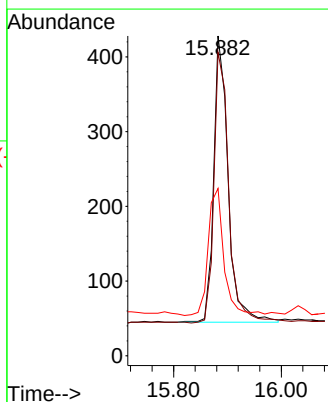
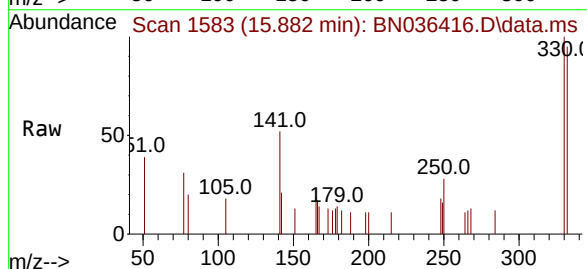
Tgt Ion:330 Resp: 713

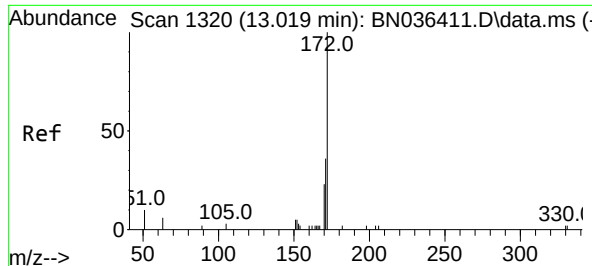
Ion Ratio Lower Upper

330 100

332 97.6 76.6 114.8

141 48.9 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.407 ng

RT: 13.019 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

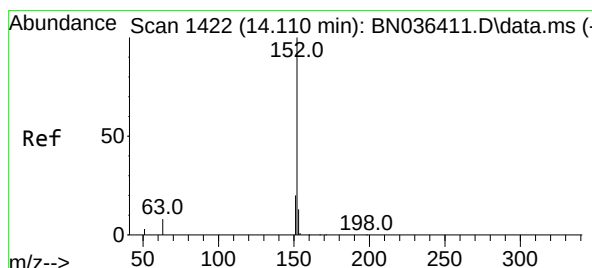
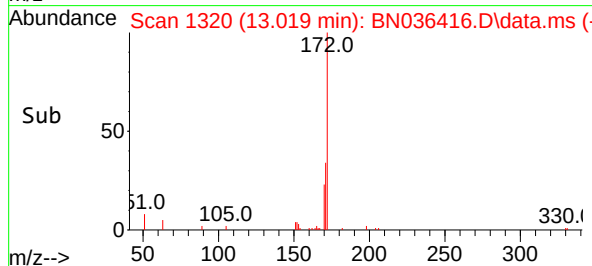
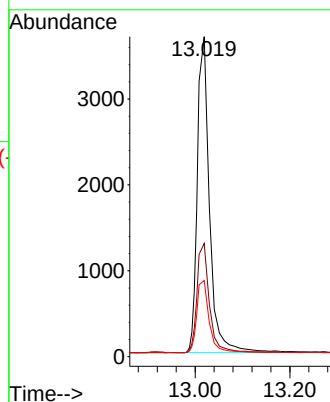
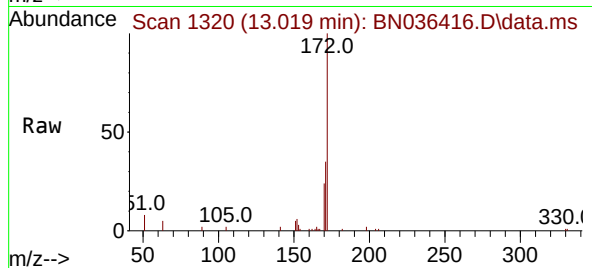
Tgt Ion:172 Resp: 6616

Ion Ratio Lower Upper

172 100

171 35.4 29.6 44.4

170 23.8 19.8 29.6



#16

Acenaphthylene

Concen: 0.422 ng

RT: 14.110 min Scan# 1422

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

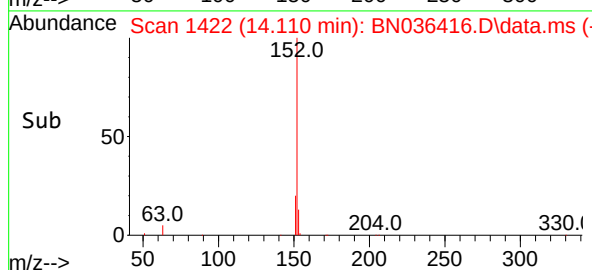
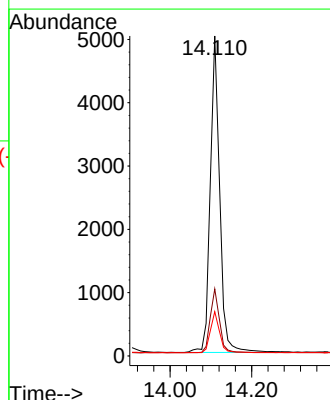
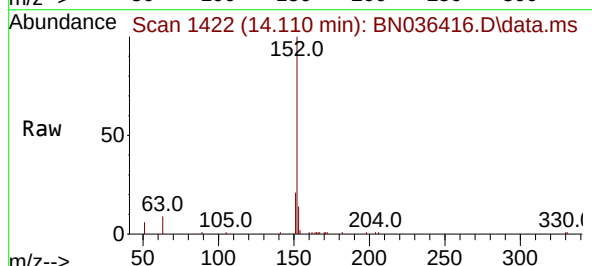
Tgt Ion:152 Resp: 8061

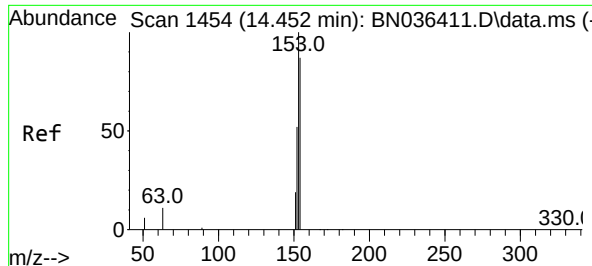
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 12.9 10.2 15.2

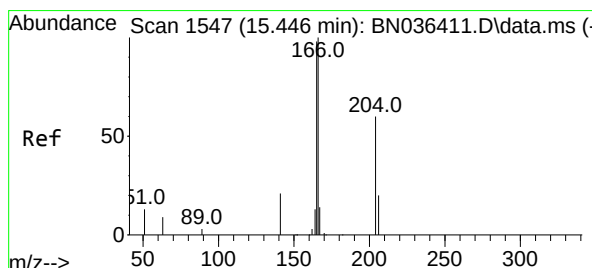
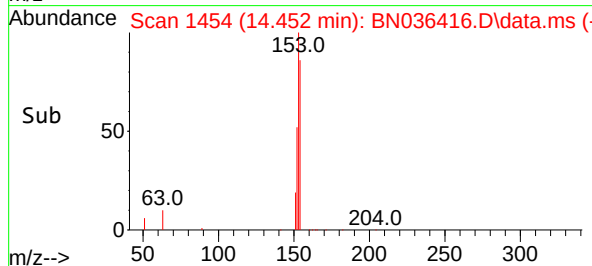
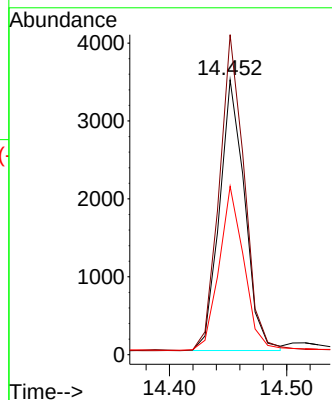
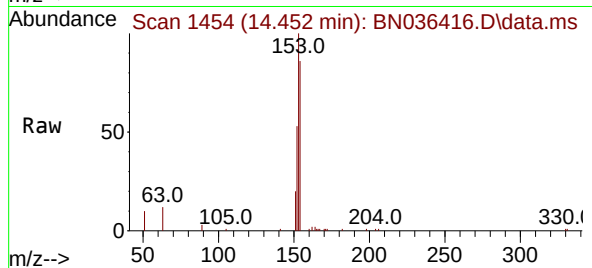




#17
Acenaphthene
Concen: 0.407 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

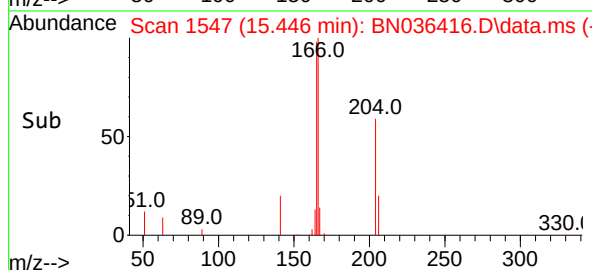
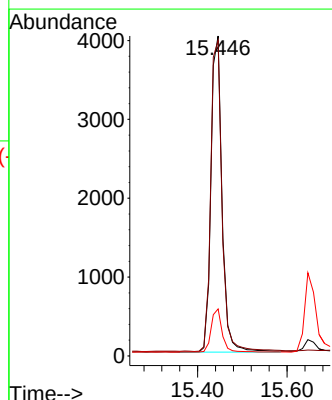
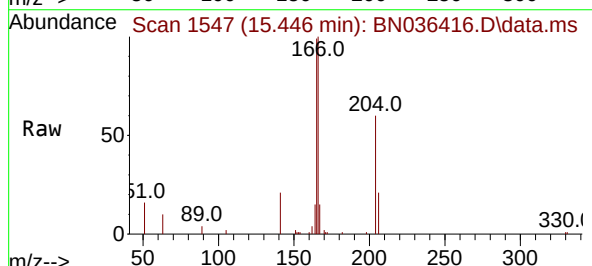
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

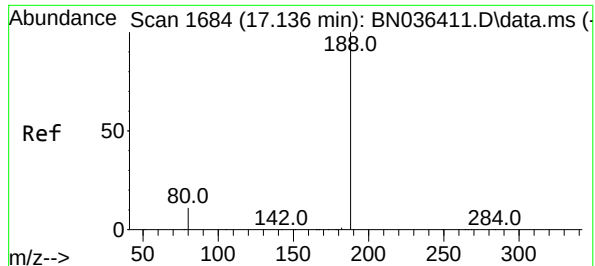
Tgt Ion	154	Resp	5199
Ion Ratio	Lower	Upper	
154	100		
153	117.1	93.3	139.9
152	60.5	48.8	73.2



#18
Fluorene
Concen: 0.397 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion	166	Resp	7222
Ion Ratio	Lower	Upper	
166	100		
165	101.4	79.5	119.3
167	13.7	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.136 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

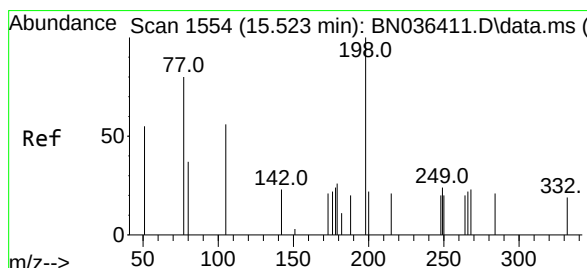
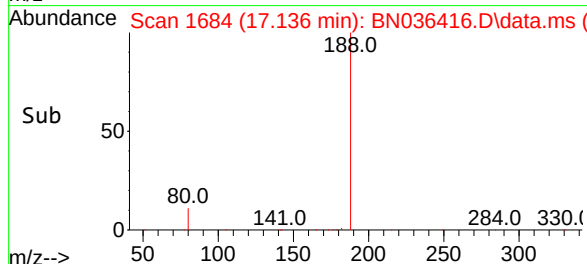
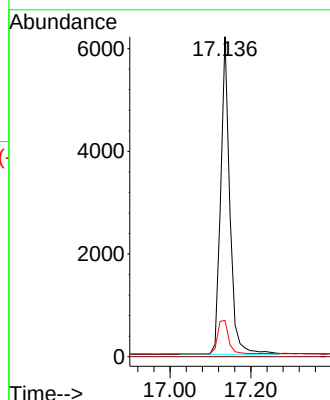
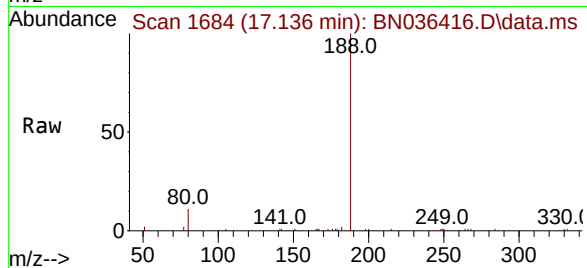
Tgt Ion:188 Resp: 9717

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: 0.348 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.001 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

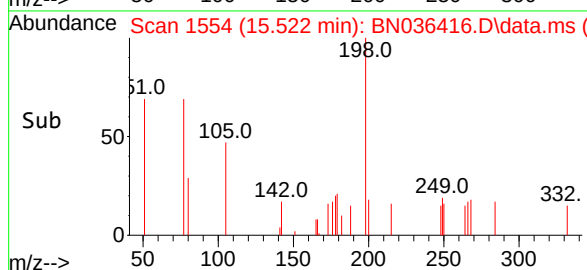
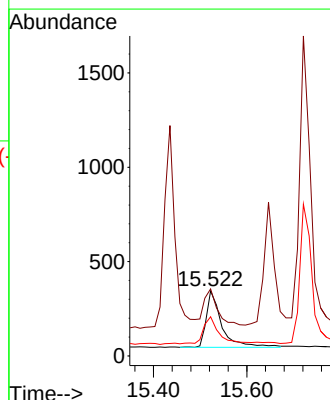
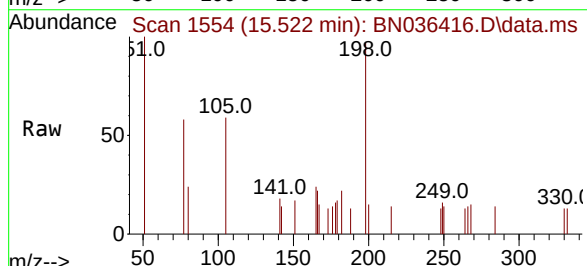
Tgt Ion:198 Resp: 664

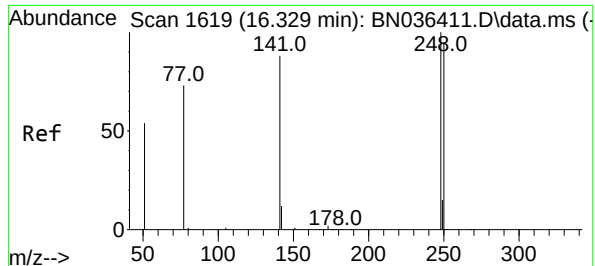
Ion Ratio Lower Upper

198 100

51 103.2 86.6 129.8

105 60.5 57.5 86.3

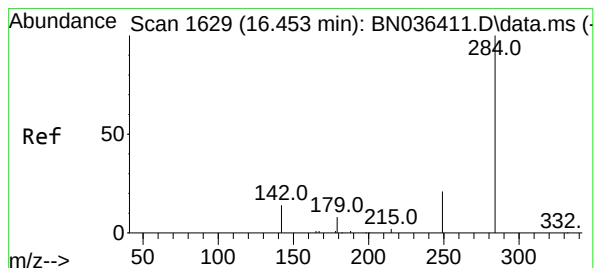
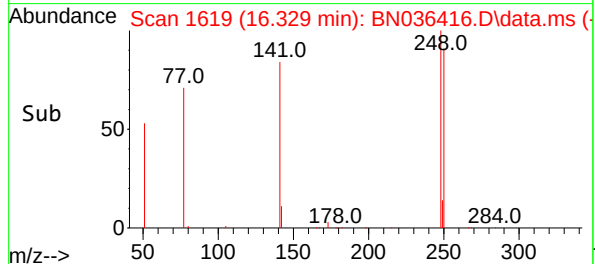
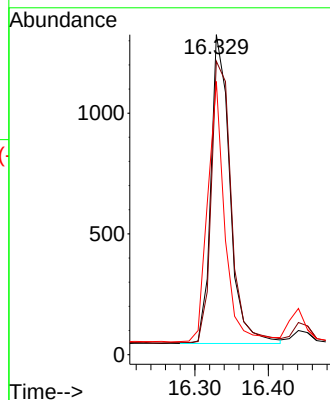
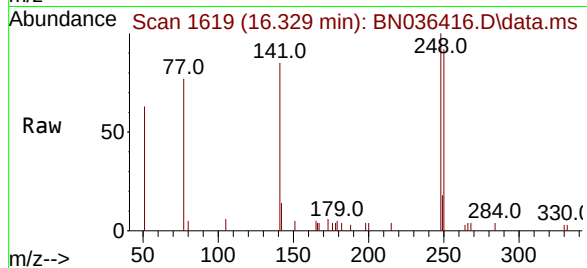




#21
4-Bromophenyl-phenylether
Concen: 0.395 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

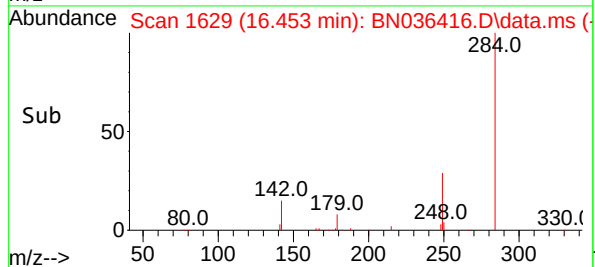
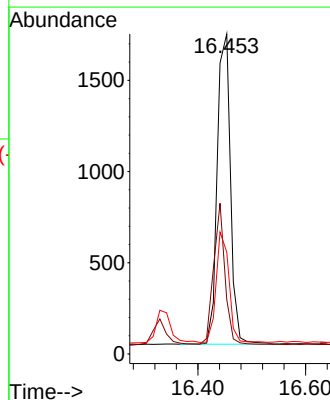
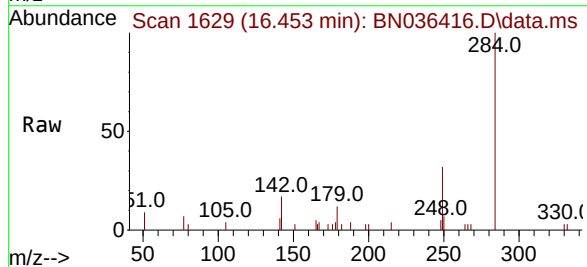
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

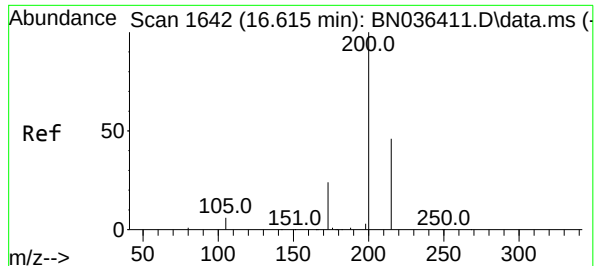
Tgt Ion:248 Resp: 2290
Ion Ratio Lower Upper
248 100
250 91.7 76.1 114.1
141 85.4 71.7 107.5



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:284 Resp: 2904
Ion Ratio Lower Upper
284 100
142 39.4 33.4 50.0
249 34.2 28.6 43.0





#23

Atrazine

Concen: 0.396 ng

RT: 16.615 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

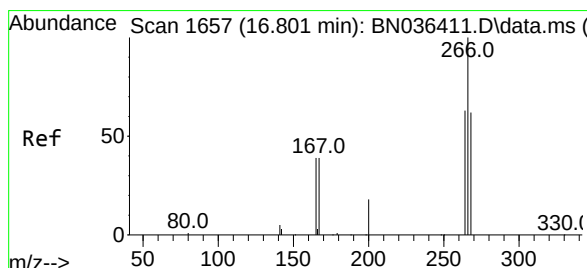
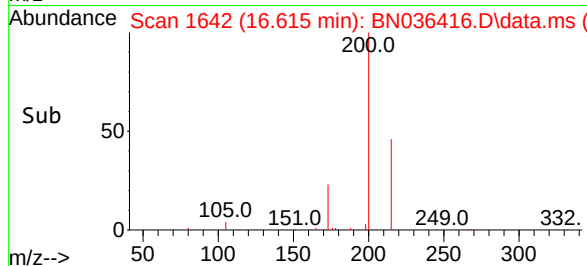
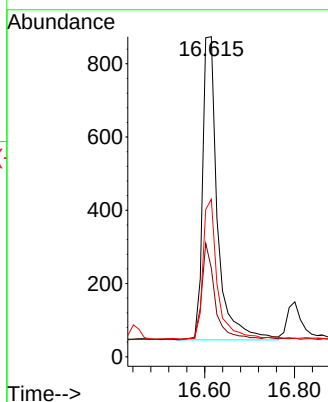
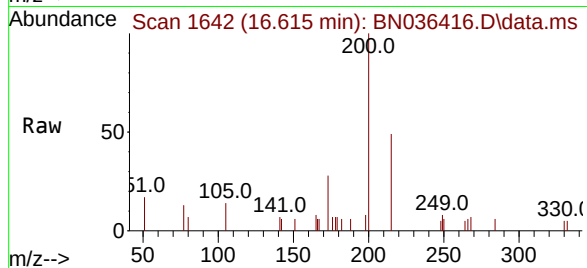
Tgt Ion:200 Resp: 1916

Ion Ratio Lower Upper

200 100

173 27.7 23.2 34.8

215 49.2 40.0 60.0



#24

Pentachlorophenol

Concen: 0.316 ng

RT: 16.801 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

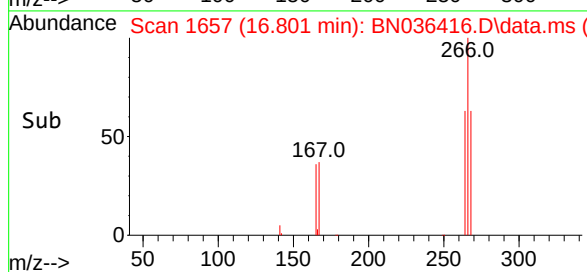
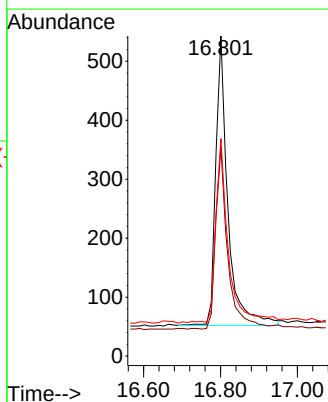
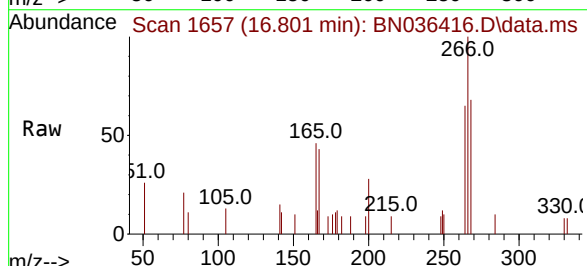
Tgt Ion:266 Resp: 1075

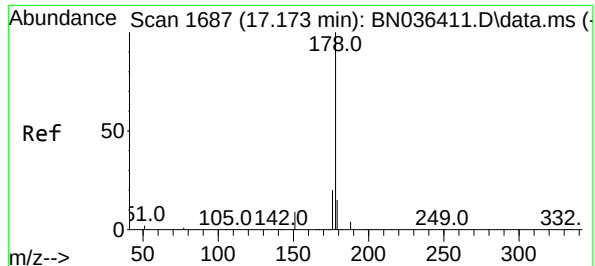
Ion Ratio Lower Upper

266 100

264 62.2 50.6 76.0

268 63.9 51.9 77.9

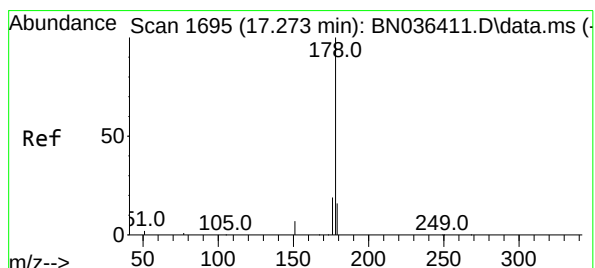
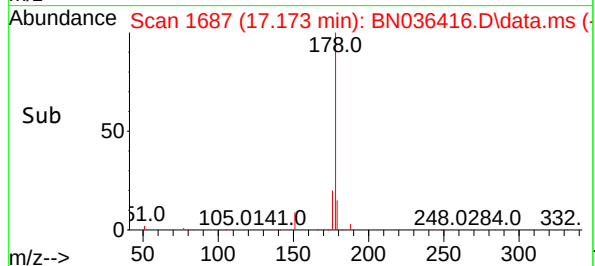
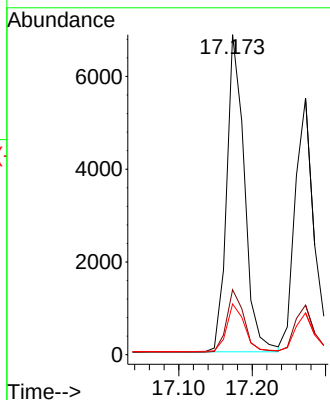
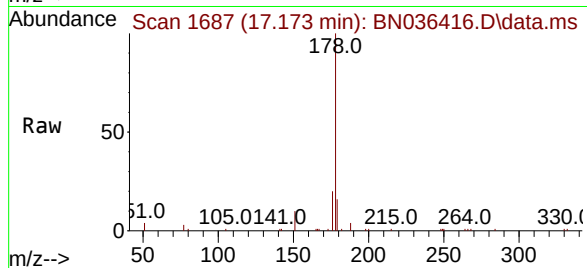




#25
Phenanthrene
Concen: 0.408 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

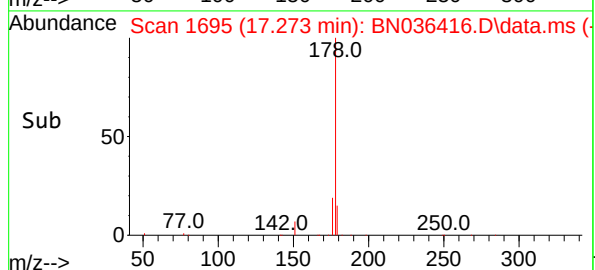
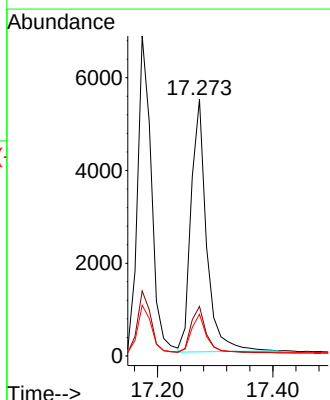
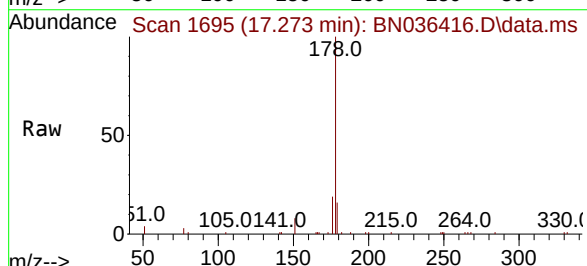
Instrument :
BNA_N
ClientSampleId :
ICVBN021025

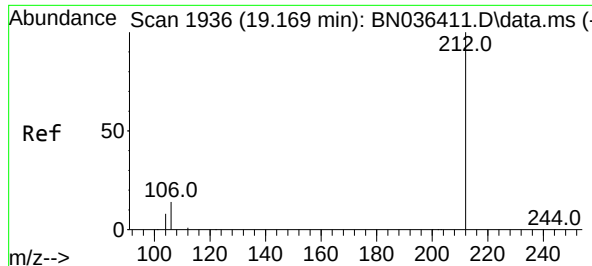
Tgt Ion:178 Resp: 11446
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.3 12.4 18.6



#26
Anthracene
Concen: 0.411 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.000 min
Lab File: BN036416.D
Acq: 10 Feb 2025 16:36

Tgt Ion:178 Resp: 10171
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.379 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

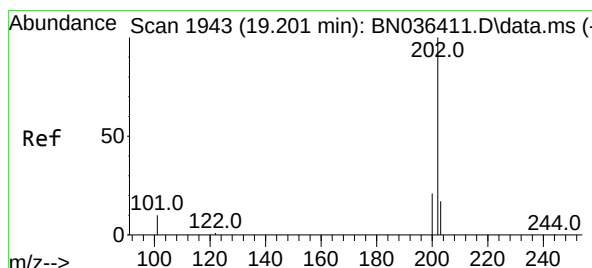
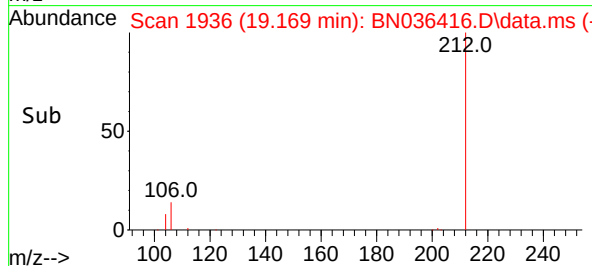
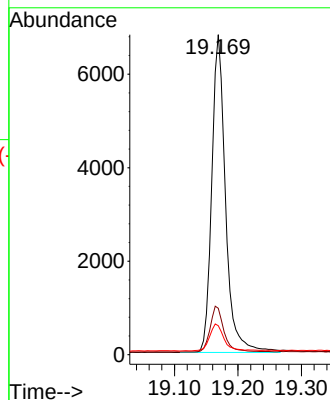
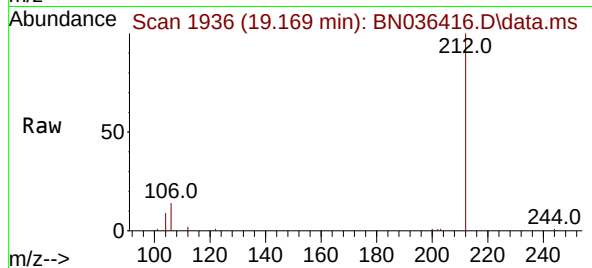
Tgt Ion:212 Resp: 10243

Ion Ratio Lower Upper

212 100

106 14.6 11.5 17.3

104 8.6 7.1 10.7



#28

Fluoranthene

Concen: 0.389 ng

RT: 19.197 min Scan# 1942

Delta R.T. -0.005 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

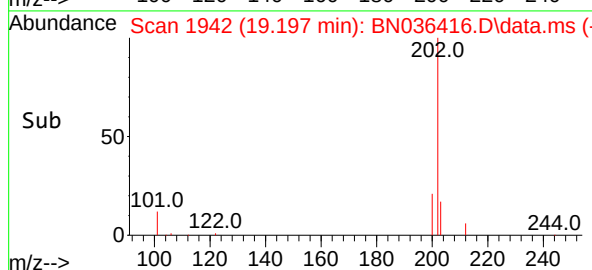
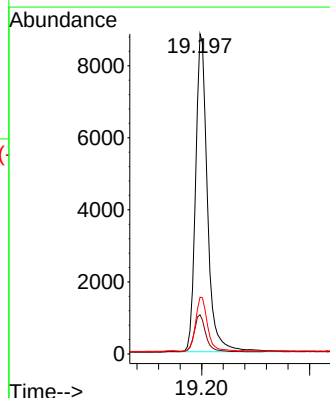
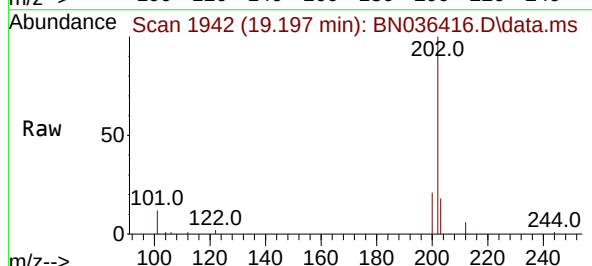
Tgt Ion:202 Resp: 13415

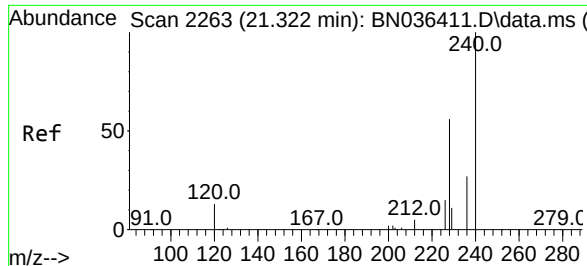
Ion Ratio Lower Upper

202 100

101 11.4 9.2 13.8

203 16.9 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

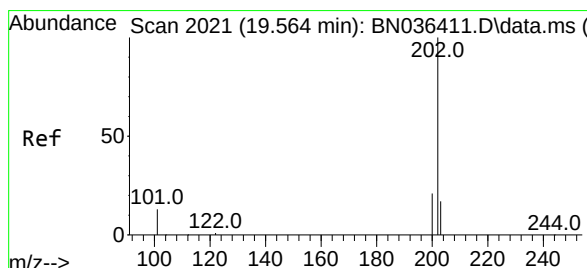
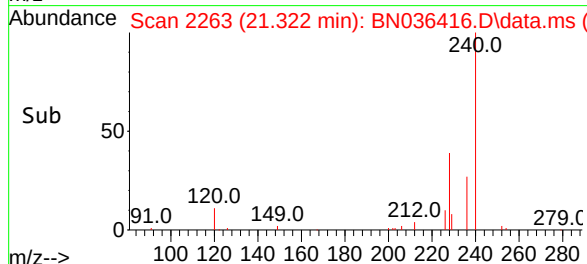
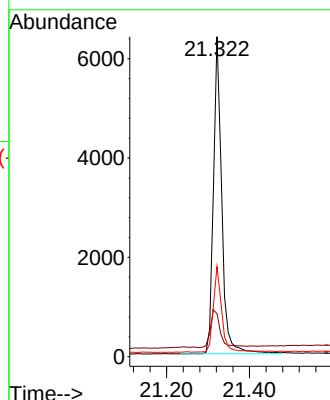
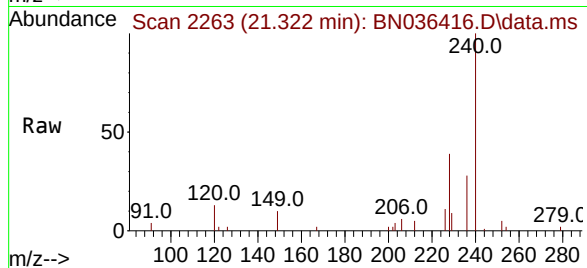
Tgt Ion:240 Resp: 8903

Ion Ratio Lower Upper

240 100

120 13.4 13.3 19.9

236 28.2 23.0 34.6



#30

Pyrene

Concen: 0.405 ng

RT: 19.559 min Scan# 2020

Delta R.T. -0.005 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

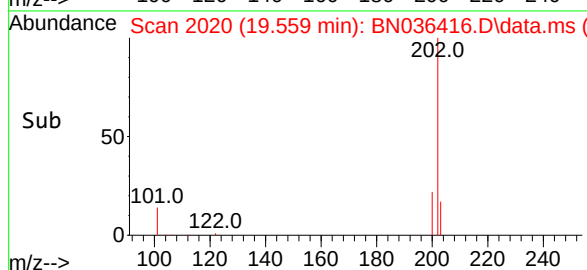
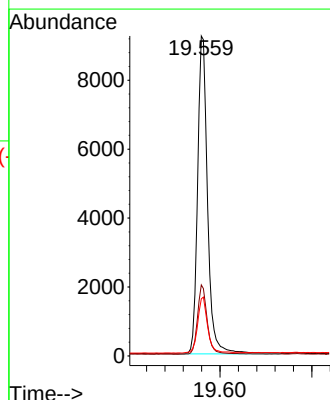
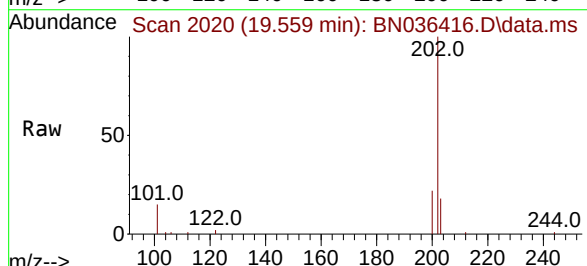
Tgt Ion:202 Resp: 13881

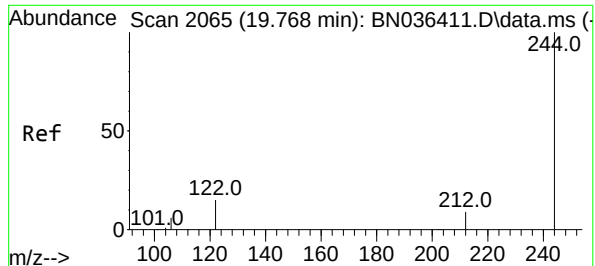
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

203 17.4 13.9 20.9





#31

Terphenyl-d14

Concen: 0.407 ng

RT: 19.768 min Scan# 2065

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

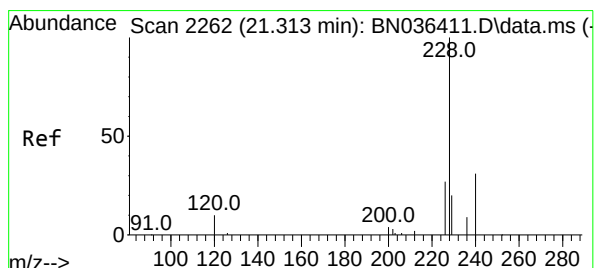
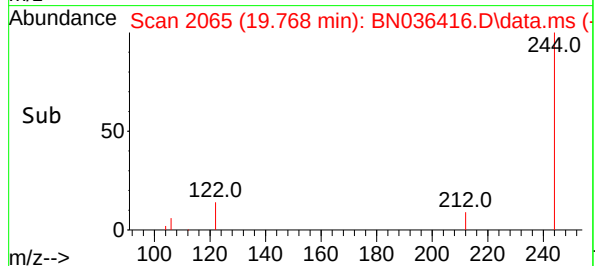
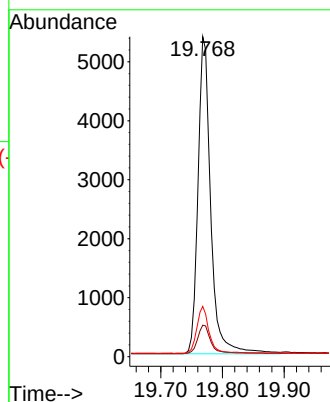
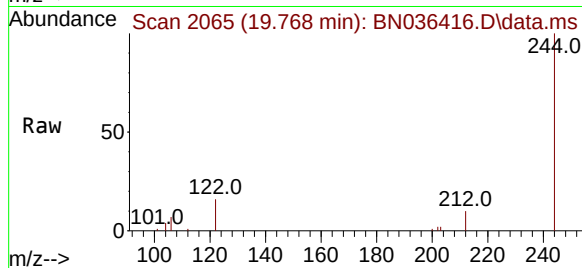
Tgt Ion:244 Resp: 7744

Ion Ratio Lower Upper

244 100

212 9.8 8.1 12.1

122 15.7 12.8 19.2



#32

Benzo(a)anthracene

Concen: 0.403 ng

RT: 21.304 min Scan# 2261

Delta R.T. -0.009 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

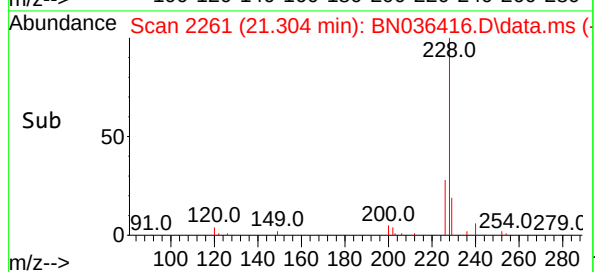
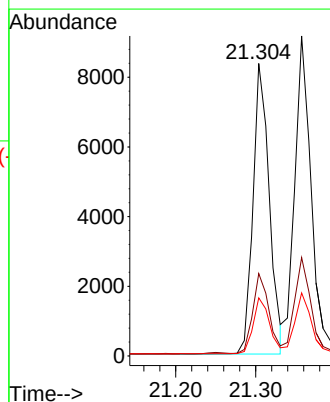
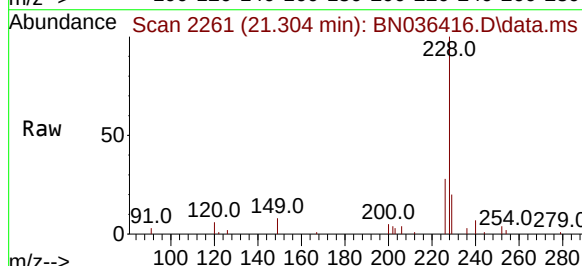
Tgt Ion:228 Resp: 11819

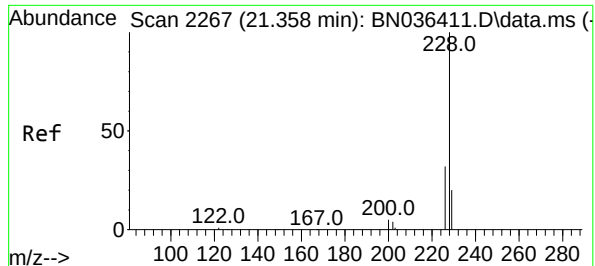
Ion Ratio Lower Upper

228 100

226 28.2 22.2 33.2

229 19.9 16.5 24.7





#33

Chrysene

Concen: 0.423 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025

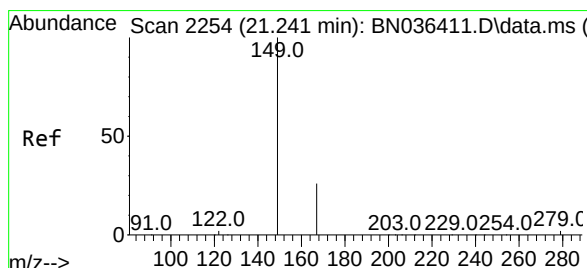
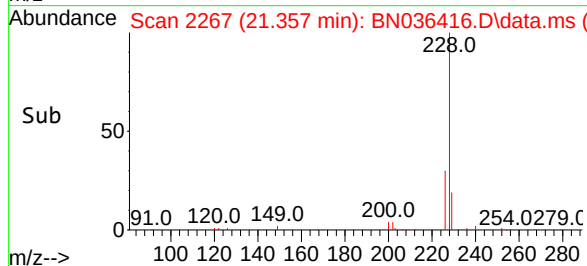
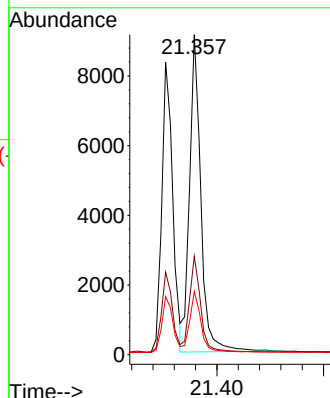
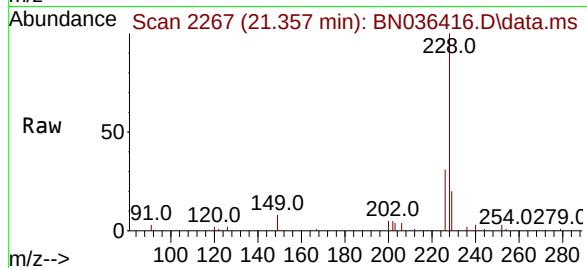
Tgt Ion:228 Resp: 13425

Ion Ratio Lower Upper

228 100

226 30.7 25.5 38.3

229 19.7 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.383 ng

RT: 21.241 min Scan# 2254

Delta R.T. -0.000 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

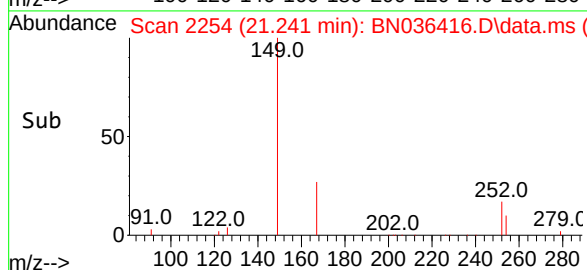
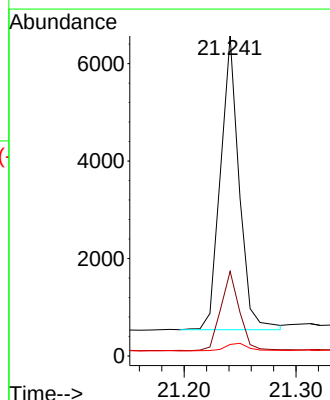
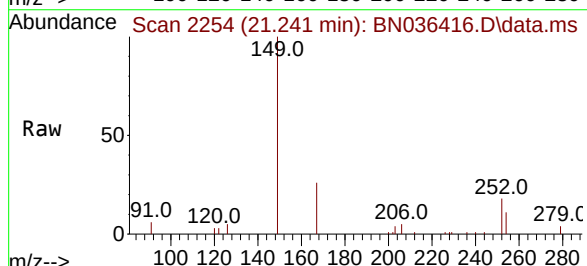
Tgt Ion:149 Resp: 6985

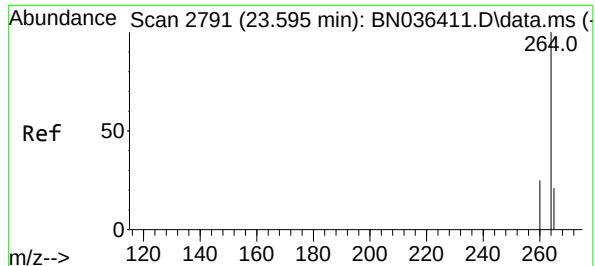
Ion Ratio Lower Upper

149 100

167 27.5 21.2 31.8

279 3.5 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.592 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036416.D

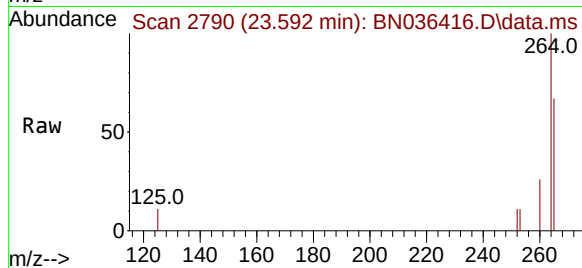
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



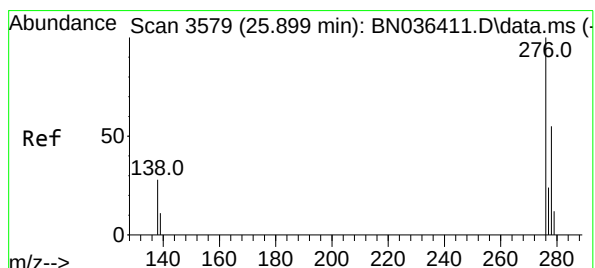
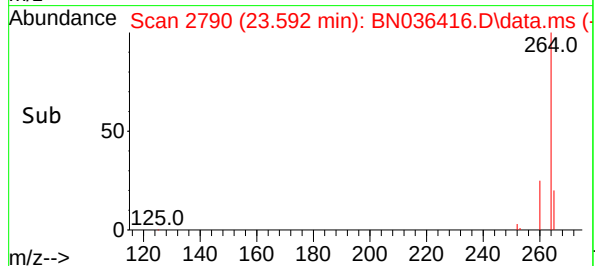
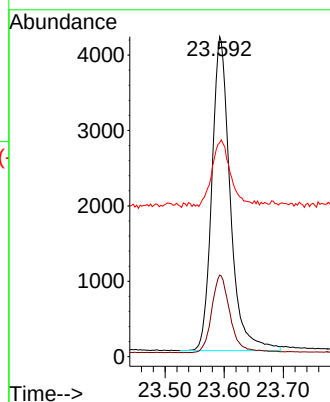
Tgt Ion:264 Resp: 8977

Ion Ratio Lower Upper

264 100

260 25.5 20.9 31.3

265 66.9 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.438 ng

RT: 25.896 min Scan# 3578

Delta R.T. -0.003 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

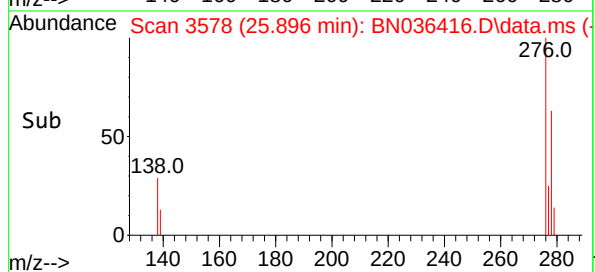
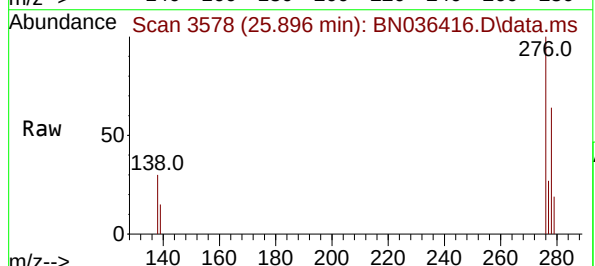
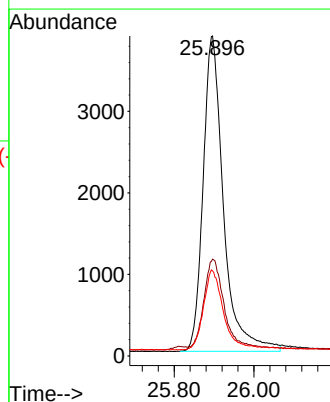
Tgt Ion:276 Resp: 13738

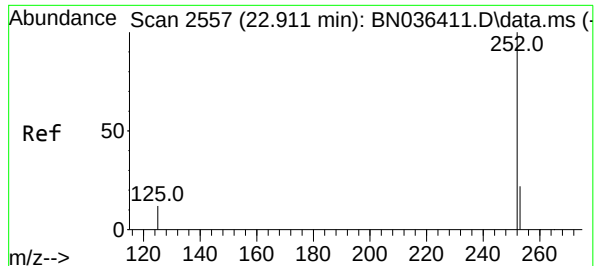
Ion Ratio Lower Upper

276 100

138 27.6 22.2 33.2

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.415 ng

RT: 22.908 min Scan# 2556

Delta R.T. -0.003 min

Lab File: BN036416.D

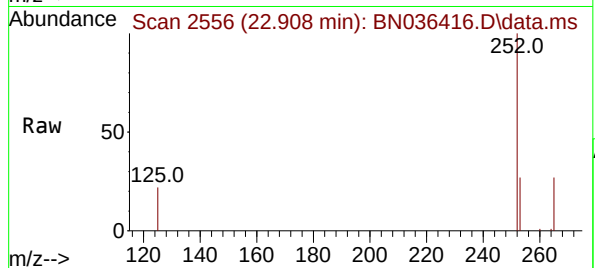
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



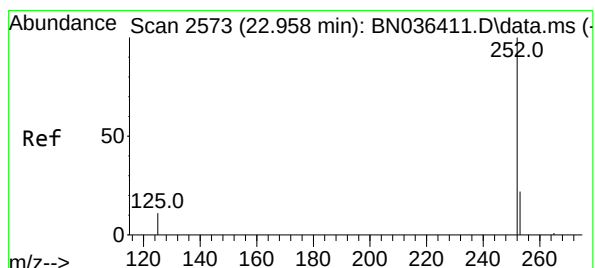
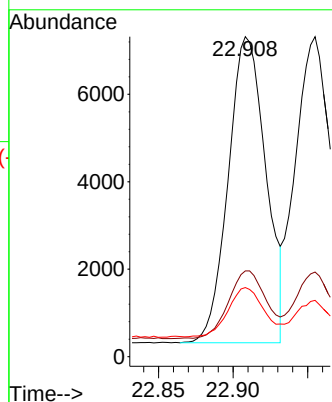
Tgt Ion:252 Resp: 12283

Ion Ratio Lower Upper

252 100

253 26.8 21.9 32.9

125 21.6 15.0 22.6



#38

Benzo(k)fluoranthene

Concen: 0.430 ng

RT: 22.955 min Scan# 2572

Delta R.T. -0.003 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

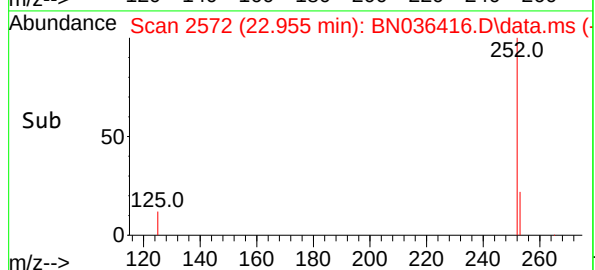
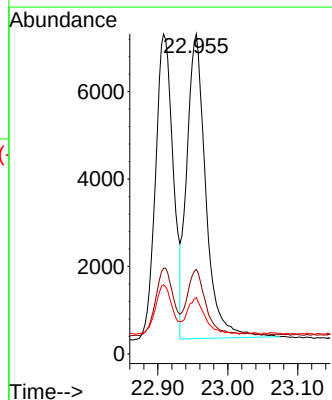
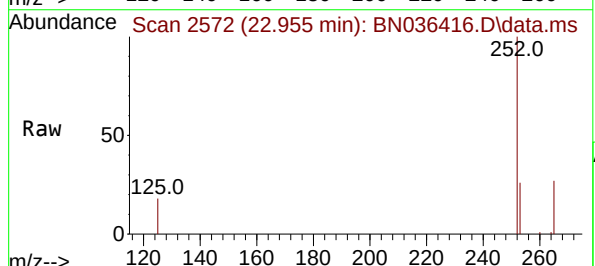
Tgt Ion:252 Resp: 13099

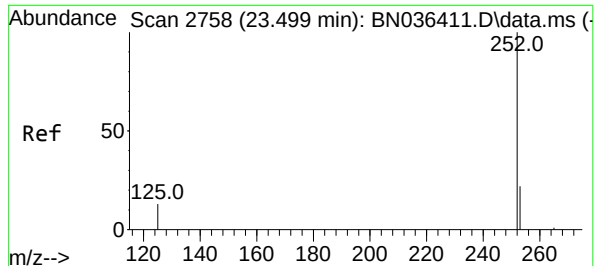
Ion Ratio Lower Upper

252 100

253 26.5 22.2 33.4

125 17.6 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.454 ng

RT: 23.493 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036416.D

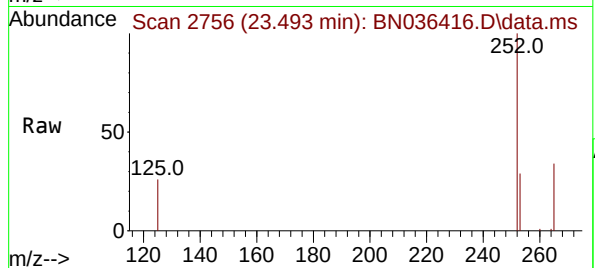
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



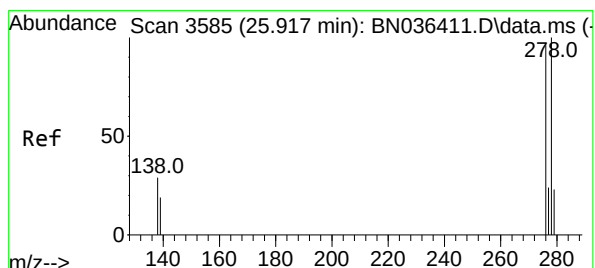
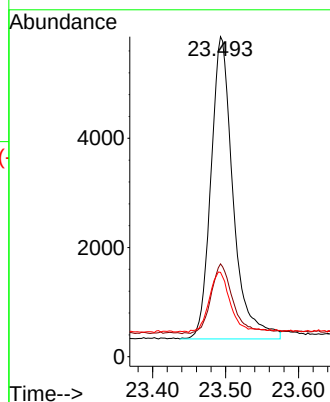
Tgt Ion:252 Resp: 11703

Ion Ratio Lower Upper

252 100

253 29.0 24.4 36.6

125 26.4 18.2 27.2



#40

Dibenzo(a,h)anthracene

Concen: 0.427 ng

RT: 25.908 min Scan# 3582

Delta R.T. -0.009 min

Lab File: BN036416.D

Acq: 10 Feb 2025 16:36

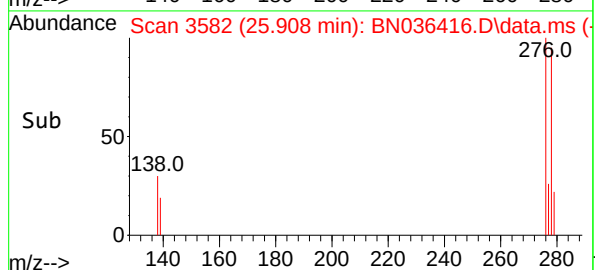
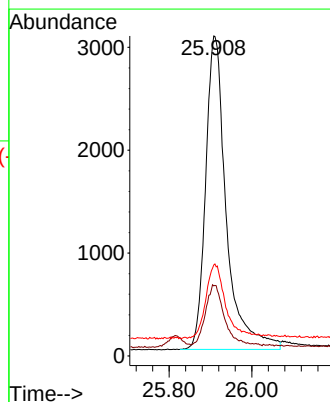
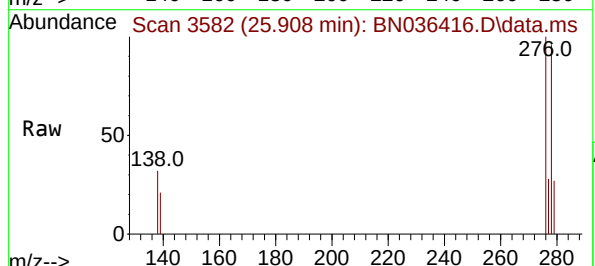
Tgt Ion:278 Resp: 10585

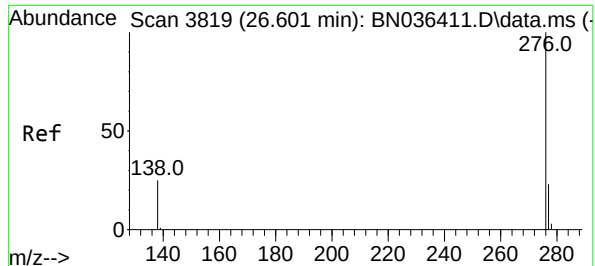
Ion Ratio Lower Upper

278 100

139 21.9 18.5 27.7

279 28.4 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.595 min Scan# 3817

Delta R.T. -0.006 min

Lab File: BN036416.D

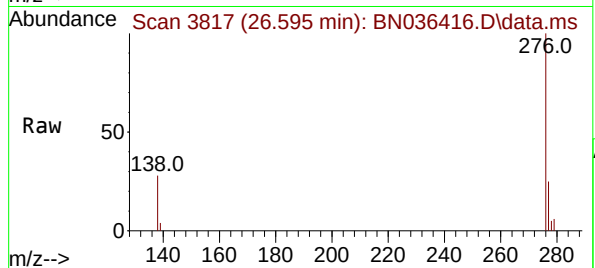
Acq: 10 Feb 2025 16:36

Instrument :

BNA_N

ClientSampleId :

ICVBN021025



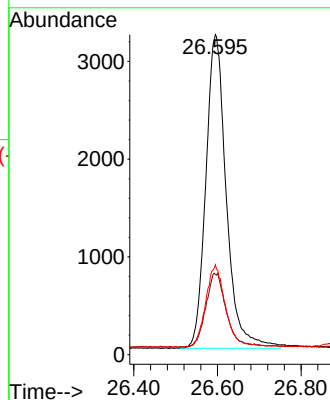
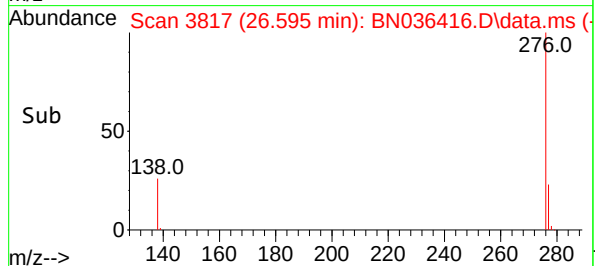
Tgt Ion:276 Resp: 10921

Ion Ratio Lower Upper

276 100

277 25.1 20.7 31.1

138 28.1 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036416.D
Acq On : 10 Feb 2025 16:36
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

Quant Time: Feb 11 01:25:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
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	123	0.00
2	1,4-Dioxane	0.438	0.449	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.760	0.732	3.7	118	0.00
4 S	2-Fluorophenol	0.945	0.877	7.2	115	0.00
5 S	Phenol-d6	1.109	0.961	13.3	114	0.00
6	bis(2-Chloroethyl)ether	1.160	1.187	-2.3	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8 S	Nitrobenzene-d5	0.395	0.354	10.4	118	0.00
9	Naphthalene	1.154	1.121	2.9	122	0.00
10	Hexachlorobutadiene	0.281	0.284	-1.1	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.615	0.598	2.8	121	0.00
12	2-Methylnaphthalene	0.757	0.764	-0.9	126	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.198	0.165	16.7	106	0.00
15 S	2-Fluorobiphenyl	1.504	1.529	-1.7	133	0.00
16	Acenaphthylene	1.767	1.863	-5.4	132	0.00
17	Acenaphthene	1.180	1.201	-1.8	126	0.00
18	Fluorene	1.680	1.669	0.7	121	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.078	0.068	12.8	116	0.00
21	4-Bromophenyl-phenylether	0.239	0.236	1.3	119	0.00
22	Hexachlorobenzene	0.295	0.299	-1.4	123	0.00
23	Atrazine	0.199	0.197	1.0	123	0.00
24	Pentachlorophenol	0.140	0.111	20.7	106	0.00
25	Phenanthrene	1.156	1.178	-1.9	126	0.00
26	Anthracene	1.020	1.047	-2.6	126	0.00
27 SURR	Fluoranthene-d10	1.112	1.054	5.2	116	0.00
28	Fluoranthene	1.421	1.381	2.8	119	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	119	0.00
30	Pyrene	1.541	1.559	-1.2	121	0.00
31 S	Terphenyl-d14	0.854	0.870	-1.9	121	0.00
32	Benzo(a)anthracene	1.316	1.328	-0.9	122	0.00
33	Chrysene	1.425	1.508	-5.8	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.785	4.3	120	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.398	1.530	-9.4	129	0.00
37	Benzo(b)fluoranthene	1.317	1.368	-3.9	126	0.00
38	Benzo(k)fluoranthene	1.356	1.459	-7.6	124	0.00
39 C	Benzo(a)pyrene	1.150	1.304	-13.4	137	0.00
40	Dibenzo(a,h)anthracene	1.103	1.179	-6.9	127	0.00
41	Benzo(g,h,i)perylene	1.250	1.217	2.6	113	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036416.D
Acq On : 10 Feb 2025 16:36
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN021025

Quant Time: Feb 11 01:25:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
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	123	0.00
2	1,4-Dioxane	0.400	0.410	-2.5	127	0.00
3	n-Nitrosodimethylamine	0.400	0.385	3.8	118	0.00
4 S	2-Fluorophenol	0.400	0.371	7.3	115	0.00
5 S	Phenol-d6	0.400	0.347	13.3	114	0.00
6	bis(2-Chloroethyl)ether	0.400	0.409	-2.2	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8 S	Nitrobenzene-d5	0.400	0.359	10.3	118	0.00
9	Naphthalene	0.400	0.389	2.8	122	0.00
10	Hexachlorobutadiene	0.400	0.404	-1.0	122	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.389	2.8	121	0.00
12	2-Methylnaphthalene	0.400	0.404	-1.0	126	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	120	0.00
14 S	2,4,6-Tribromophenol	0.400	0.332	17.0	106	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	133	0.00
16	Acenaphthylene	0.400	0.422	-5.5	132	0.00
17	Acenaphthene	0.400	0.407	-1.7	126	0.00
18	Fluorene	0.400	0.397	0.8	121	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	117	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.348	13.0	116	0.00
21	4-Bromophenyl-phenylether	0.400	0.395	1.3	119	0.00
22	Hexachlorobenzene	0.400	0.406	-1.5	123	0.00
23	Atrazine	0.400	0.396	1.0	123	0.00
24	Pentachlorophenol	0.400	0.316	21.0	106	0.00
25	Phenanthrene	0.400	0.408	-2.0	126	0.00
26	Anthracene	0.400	0.411	-2.7	126	0.00
27 SURR	Fluoranthene-d10	0.400	0.379	5.3	116	0.00
28	Fluoranthene	0.400	0.389	2.8	119	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	119	0.00
30	Pyrene	0.400	0.405	-1.3	121	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	121	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	122	0.00
33	Chrysene	0.400	0.423	-5.7	132	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.383	4.3	120	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.438	-9.5	129	0.00
37	Benzo(b)fluoranthene	0.400	0.415	-3.7	126	0.00
38	Benzo(k)fluoranthene	0.400	0.430	-7.5	124	0.00
39 C	Benzo(a)pyrene	0.400	0.454	-13.5	137	0.00
40	Dibenzo(a,h)anthracene	0.400	0.427	-6.7	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.389	2.8	113	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: BNA_N Calibration Date/Time: 02/26/2025 13:43

Lab File ID: BN036508.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.593		-3.6	20.0
Fluoranthene-d10	1.112	1.020		-8.3	20.0
2-Fluorophenol	0.945	0.858		-9.2	20.0
Phenol-d6	1.109	1.001		-9.7	20.0
Nitrobenzene-d5	0.395	0.386		-2.3	20.0
2-Fluorobiphenyl	1.504	1.669		11.0	20.0
2,4,6-Tribromophenol	0.198	0.154		-22.2	20.0
Terphenyl-d14	0.854	0.911		6.7	20.0
1,4-Dioxane	0.438	0.467		6.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036508.D
 Acq On : 26 Feb 2025 13:43
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Feb 26 14:09:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

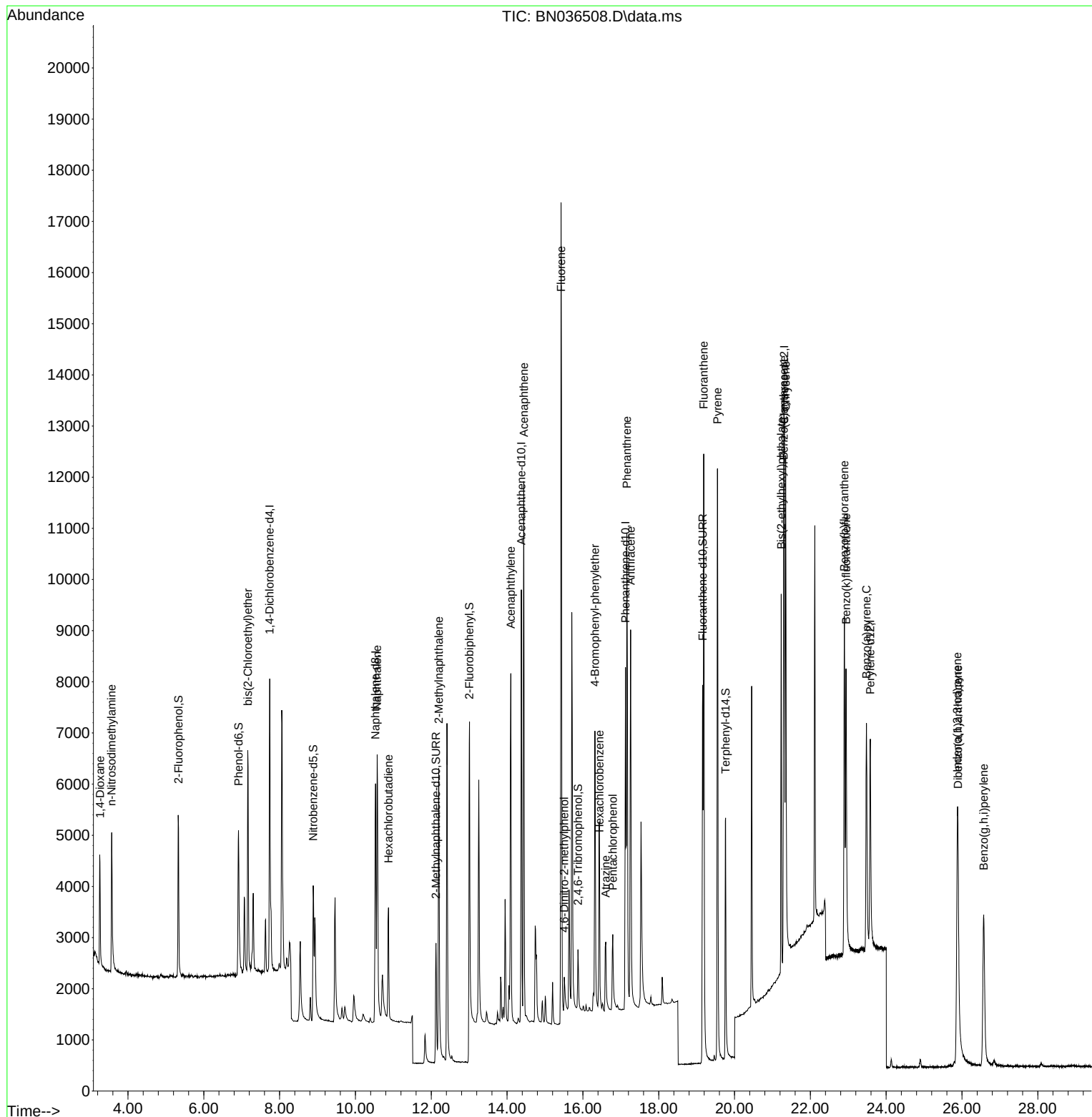
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2772	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	6909	0.400	ng	#-0.01
13) Acenaphthene-d10	14.377	164	4680	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	9092	0.400	ng	-0.01
29) Chrysene-d12	21.313	240	6639	0.400	ng	0.00
35) Perylene-d12	23.581	264	6000	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2377	0.363	ng	-0.01
5) Phenol-d6	6.915	99	2776	0.361	ng	-0.02
8) Nitrobenzene-d5	8.886	82	2668	0.391	ng	-0.02
11) 2-Methylnaphthalene-d10	12.126	152	4099	0.386	ng	-0.02
14) 2,4,6-Tribromophenol	15.870	330	719	0.310	ng	-0.01
15) 2-Fluorobiphenyl	13.003	172	7811	0.444	ng	-0.02
27) Fluoranthene-d10	19.160	212	9278	0.367	ng	0.00
31) Terphenyl-d14	19.764	244	6045	0.427	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	1294	0.427	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.564	42	2267	0.430	ng	92
6) bis(2-Chloroethyl)ether	7.161	93	3244	0.404	ng	98
9) Naphthalene	10.573	128	7777	0.390	ng	99
10) Hexachlorobutadiene	10.872	225	1886	0.389	ng	# 98
12) 2-Methylnaphthalene	12.197	142	5047	0.386	ng	99
16) Acenaphthylene	14.099	152	7894	0.382	ng	99
17) Acenaphthene	14.441	154	5057	0.366	ng	99
18) Fluorene	15.425	166	7106	0.362	ng	100
20) 4,6-Dinitro-2-methylph...	15.510	198	548	0.307	ng	92
21) 4-Bromophenyl-phenylether	16.317	248	2189	0.404	ng	98
22) Hexachlorobenzene	16.441	284	2720	0.406	ng	95
23) Atrazine	16.602	200	1700	0.375	ng	98
24) Pentachlorophenol	16.789	266	1101	0.346	ng	98
25) Phenanthrene	17.161	178	10441	0.397	ng	99
26) Anthracene	17.260	178	9164	0.395	ng	99
28) Fluoranthene	19.188	202	11838	0.367	ng	99
30) Pyrene	19.550	202	11970	0.468	ng	100
32) Benzo(a)anthracene	21.295	228	8384	0.384	ng	98
33) Chrysene	21.349	228	9942	0.420	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	6526	0.479	ng	100
36) Indeno(1,2,3-cd)pyrene	25.879	276	7809	0.372	ng	98
37) Benzo(b)fluoranthene	22.897	252	8294m	0.420	ng	
38) Benzo(k)fluoranthene	22.943	252	8277	0.407	ng	100
39) Benzo(a)pyrene	23.481	252	7264	0.421	ng	# 90
40) Dibenzo(a,h)anthracene	25.896	278	5914	0.357	ng	98
41) Benzo(g,h,i)perylene	26.572	276	6890	0.367	ng	98

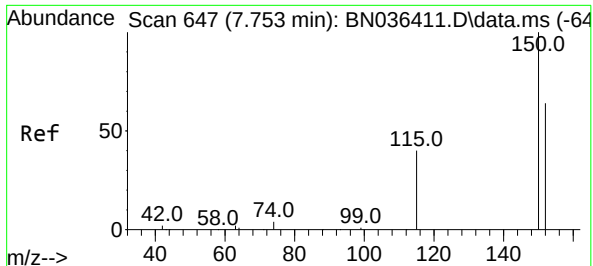
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036508.D
Acq On : 26 Feb 2025 13:43
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Feb 26 14:09:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

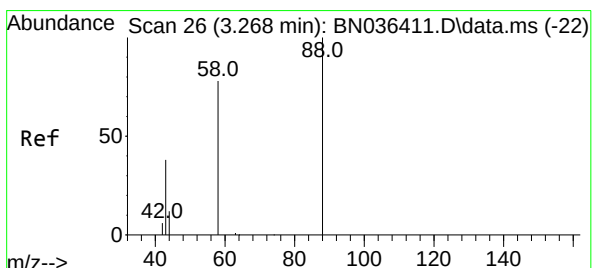
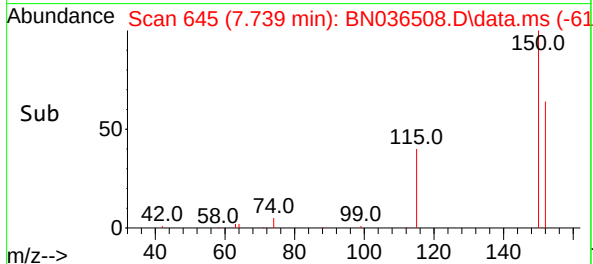
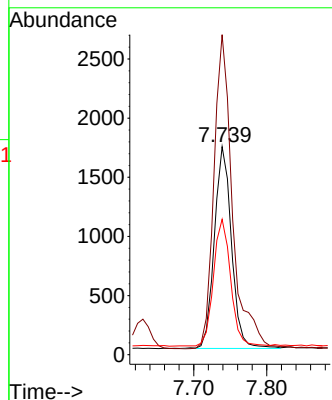
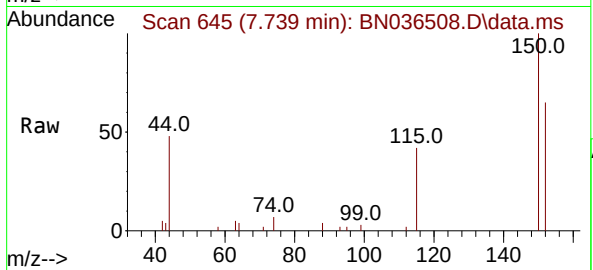




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

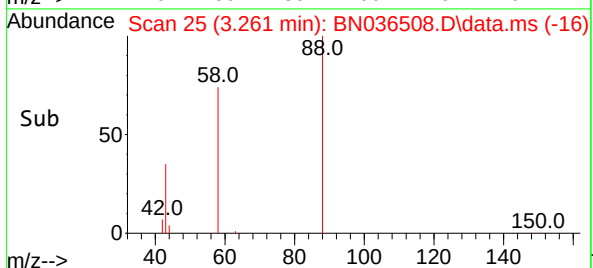
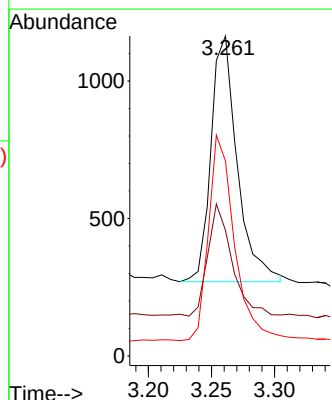
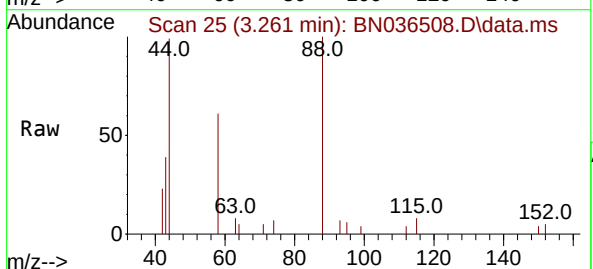
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

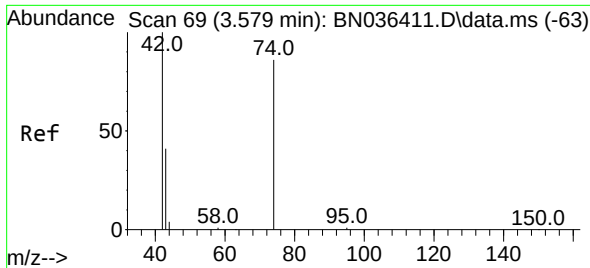
Tgt Ion: 152 Resp: 2772
Ion Ratio Lower Upper
152 100
150 153.8 123.7 185.5
115 65.1 52.5 78.7



#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion: 88 Resp: 1294
Ion Ratio Lower Upper
88 100
43 40.8 33.7 50.5
58 82.4 68.9 103.3

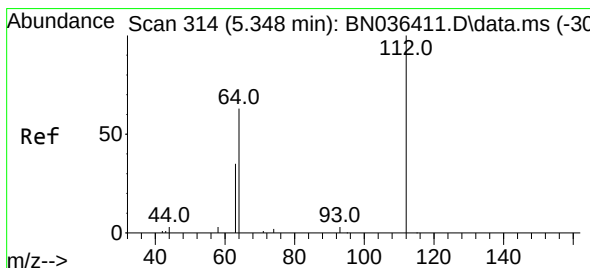
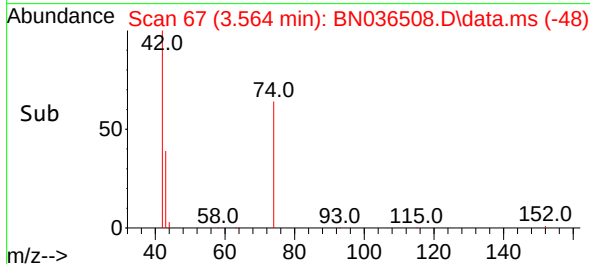
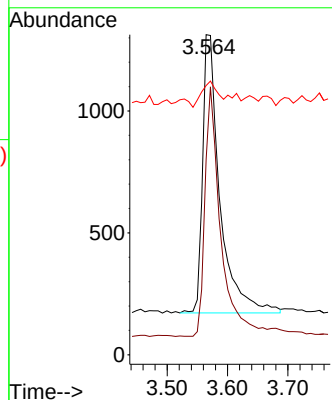
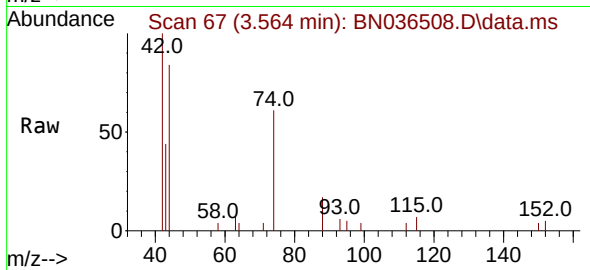




#3
n-Nitrosodimethylamine
Concen: 0.430 ng
RT: 3.564 min Scan# 61
Delta R.T. -0.014 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

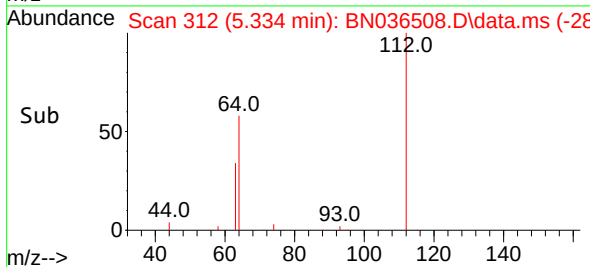
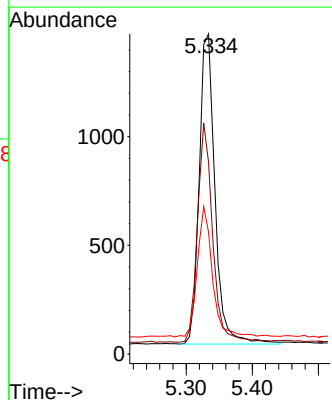
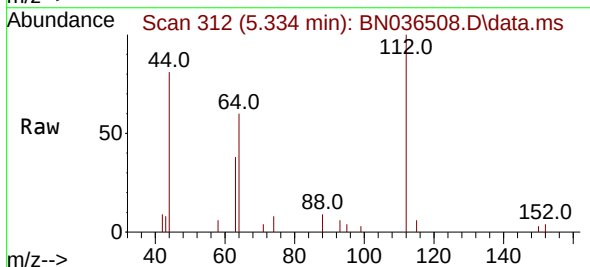
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

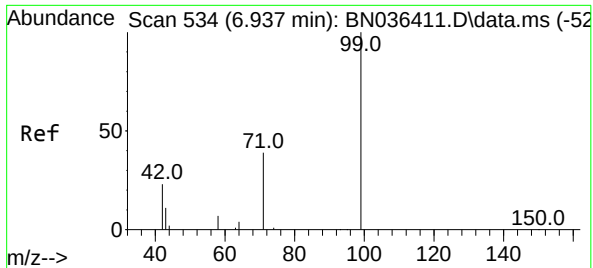
Tgt Ion: 42 Resp: 2267
Ion Ratio Lower Upper
42 100
74 81.6 71.8 107.6
44 8.6 7.8 11.6



#4
2-Fluorophenol
Concen: 0.363 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.014 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion: 112 Resp: 2377
Ion Ratio Lower Upper
112 100
64 67.5 53.4 80.0
63 40.8 30.3 45.5

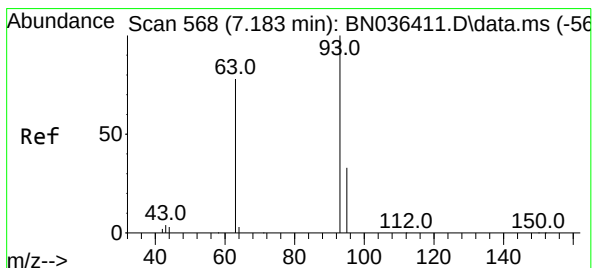
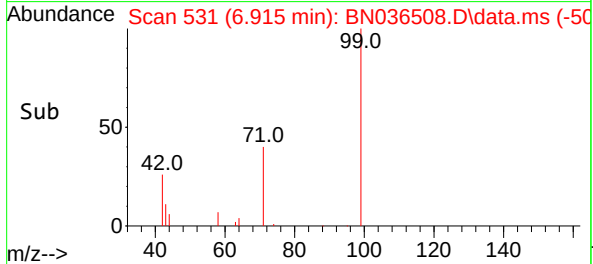
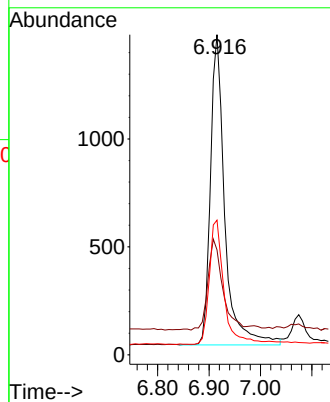
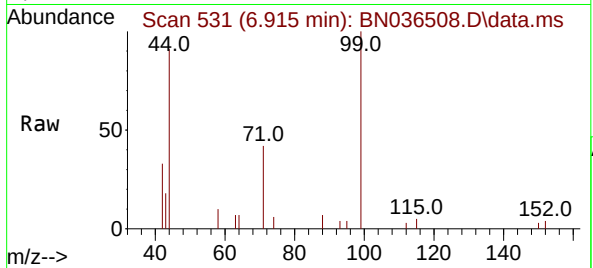




#5
Phenol-d6
Concen: 0.361 ng
RT: 6.915 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

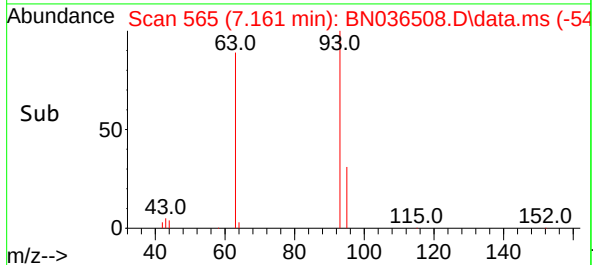
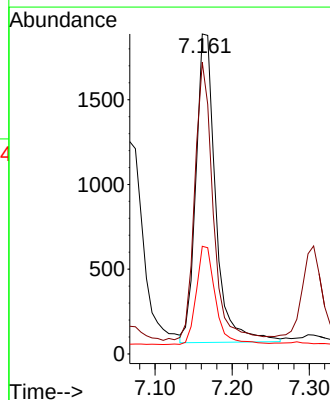
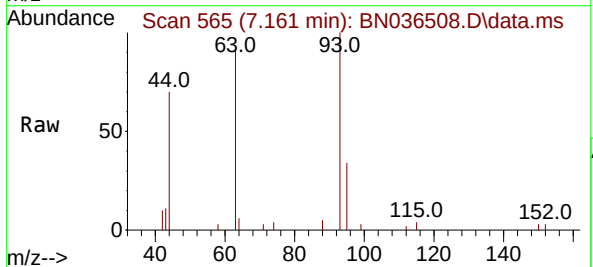
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

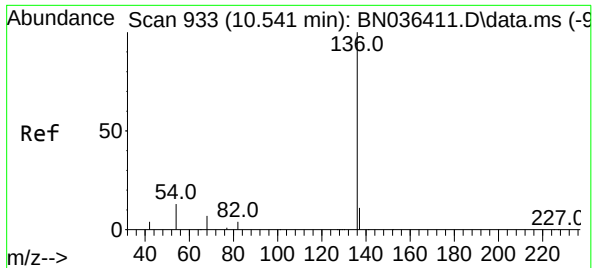
Tgt Ion: 99 Resp: 2776
Ion Ratio Lower Upper
99 100
42 30.0 21.7 32.5
71 40.6 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 7.161 min Scan# 565
Delta R.T. -0.022 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion: 93 Resp: 3244
Ion Ratio Lower Upper
93 100
63 83.8 66.3 99.5
95 31.1 26.2 39.4

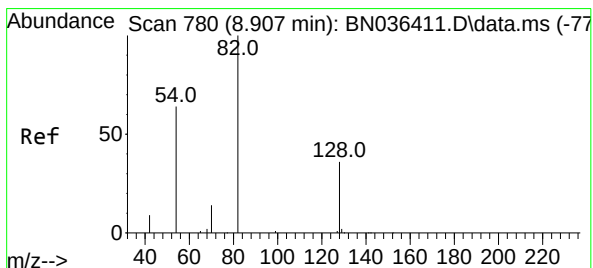
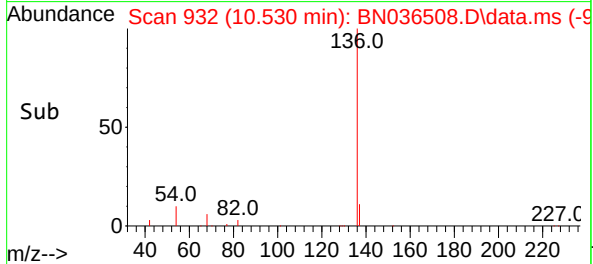
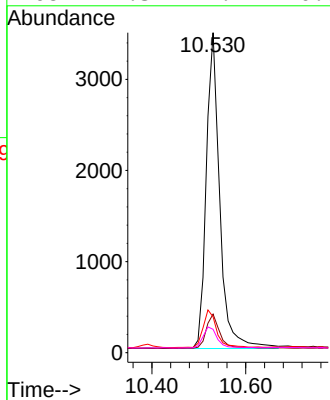
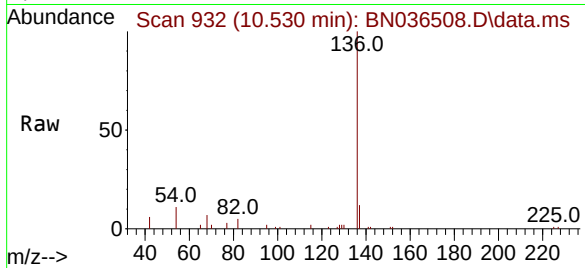




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

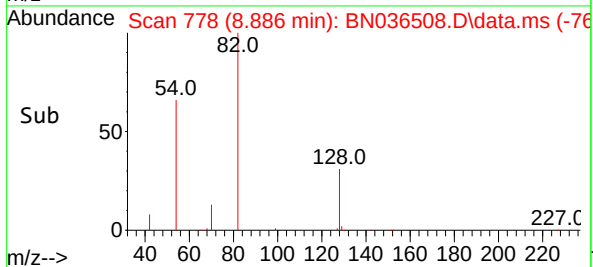
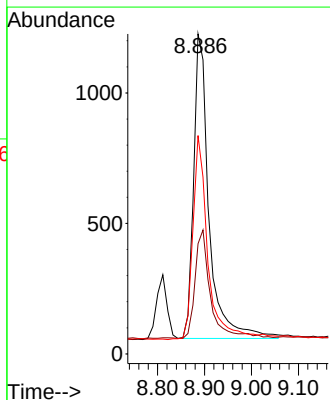
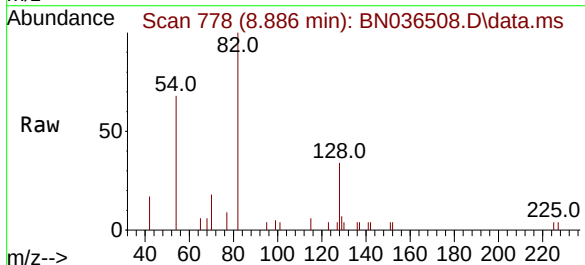
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

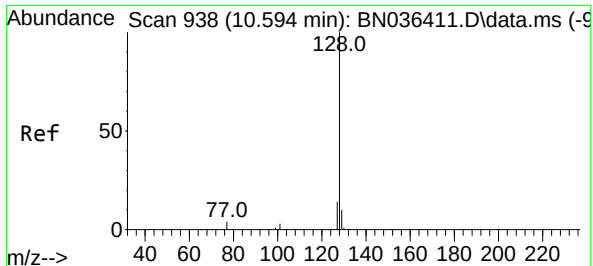
Tgt Ion:	136	Resp:	6909
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	11.2	11.8	17.6#
68	7.3	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.886 min Scan# 778
Delta R.T. -0.021 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:	82	Resp:	2668
Ion	Ratio	Lower	Upper
82	100		
128	34.4	31.9	47.9
54	68.3	53.1	79.7

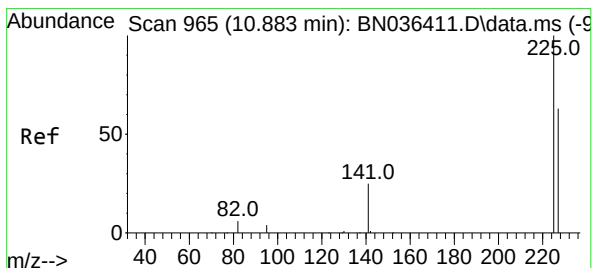
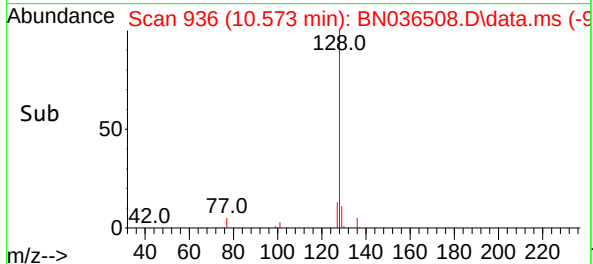
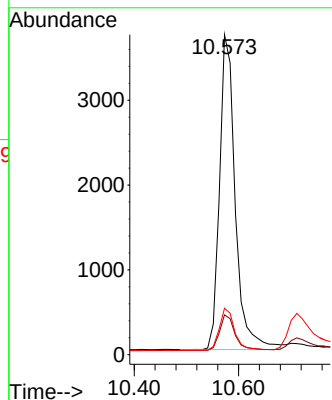
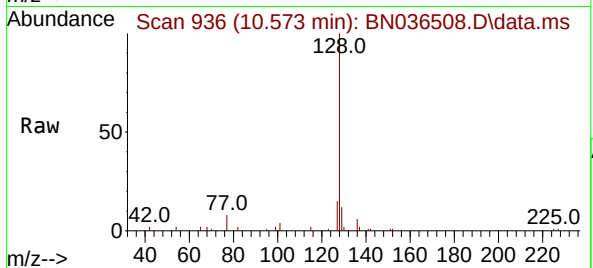




#9
Naphthalene
Concen: 0.390 ng
RT: 10.573 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

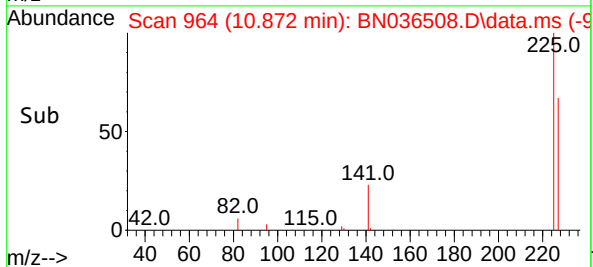
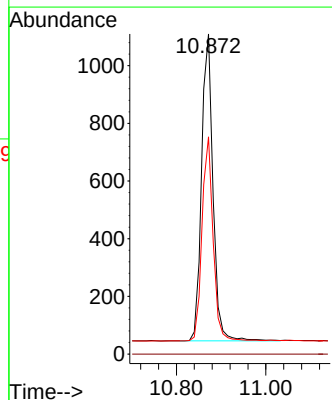
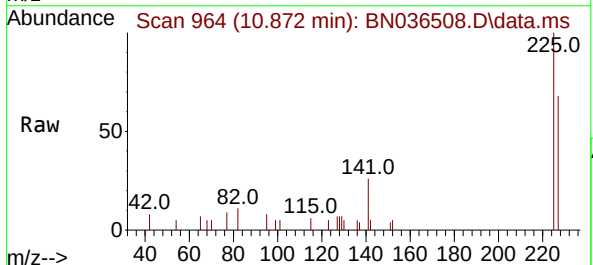
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

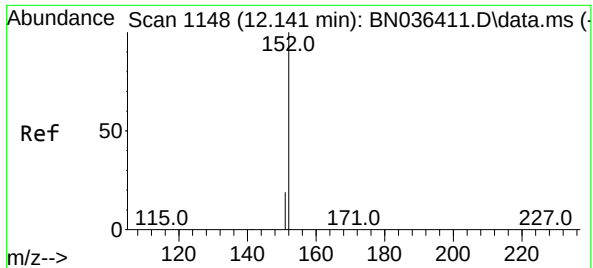
Tgt Ion:128 Resp: 7777
Ion Ratio Lower Upper
128 100
129 12.5 9.6 14.4
127 14.5 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:225 Resp: 1886
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 50.9 76.3

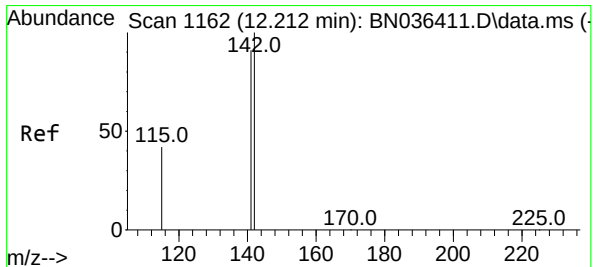
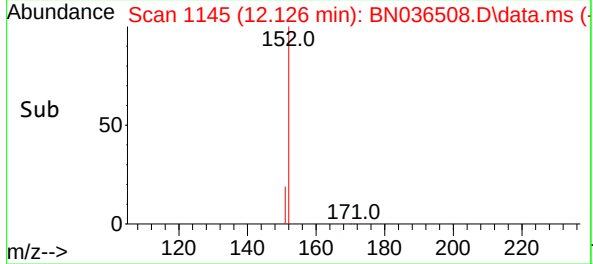
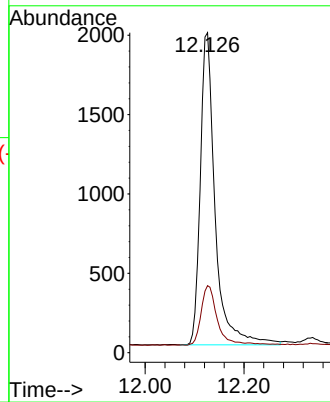
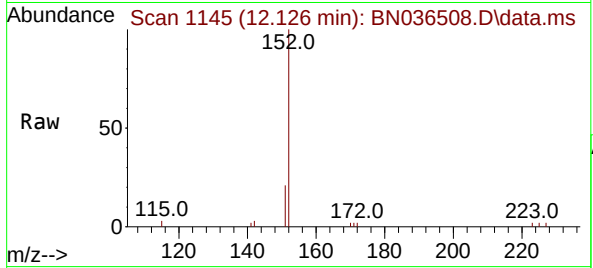




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng
RT: 12.126 min Scan# 1145
Delta R.T. -0.015 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

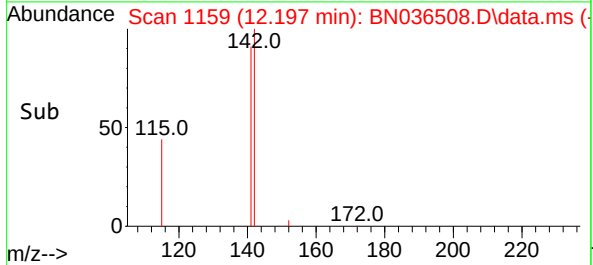
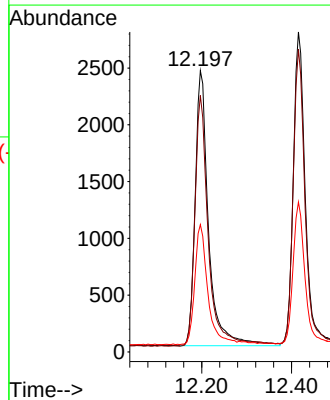
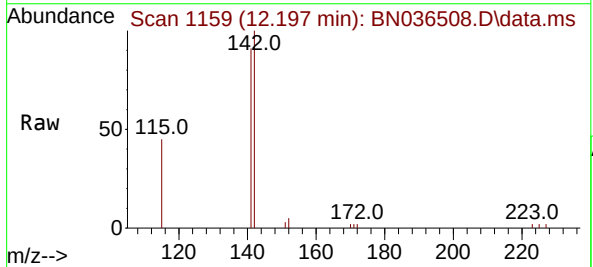
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

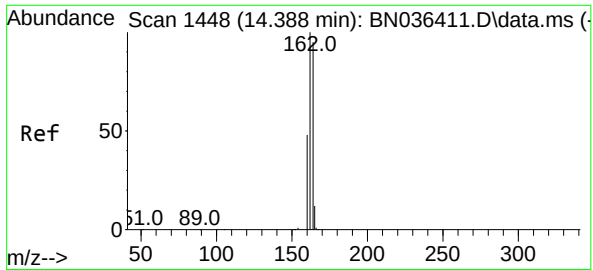
Tgt Ion:152 Resp: 4099
Ion Ratio Lower Upper
152 100
151 20.2 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.015 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:142 Resp: 5047
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 45.3 35.5 53.3

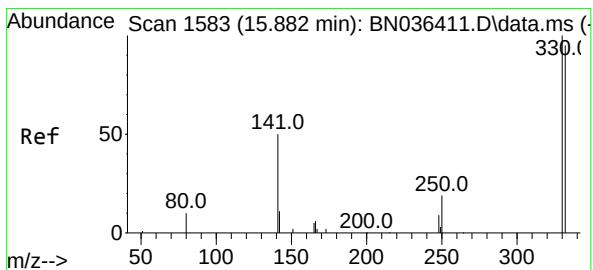
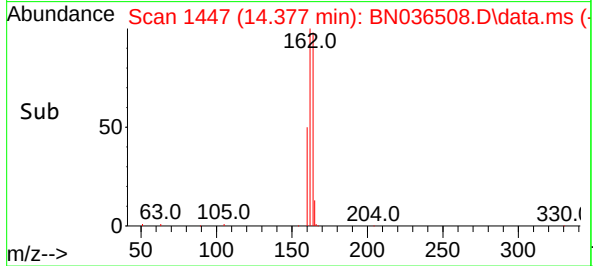
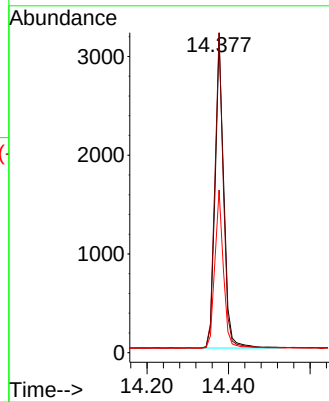
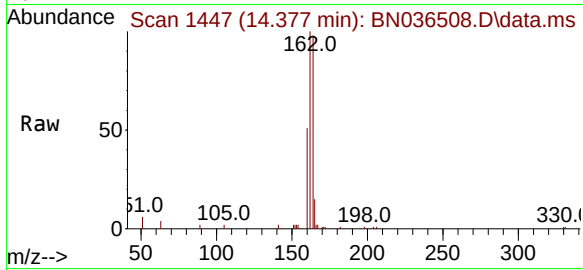




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

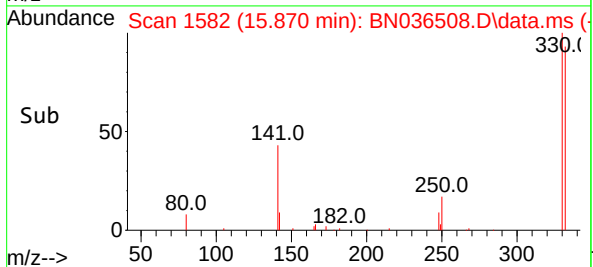
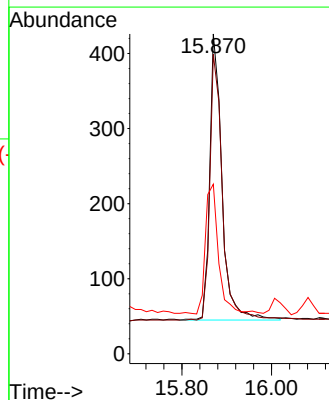
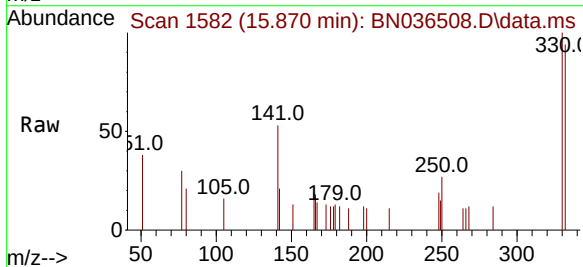
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

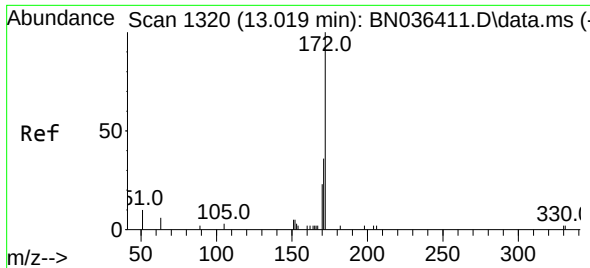
Tgt Ion:164 Resp: 4680
Ion Ratio Lower Upper
164 100
162 102.2 84.1 126.1
160 51.9 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.310 ng
RT: 15.870 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:330 Resp: 719
Ion Ratio Lower Upper
330 100
332 95.0 76.6 114.8
141 47.8 37.8 56.8

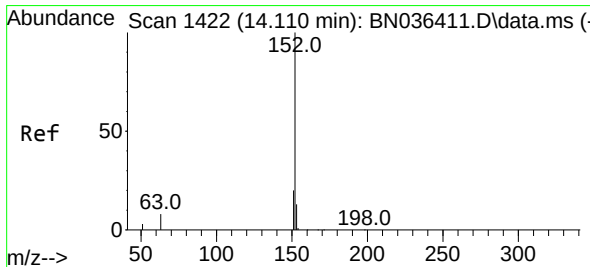
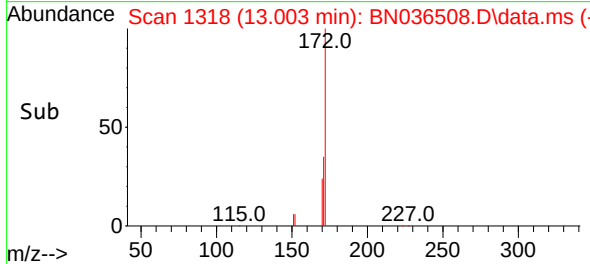
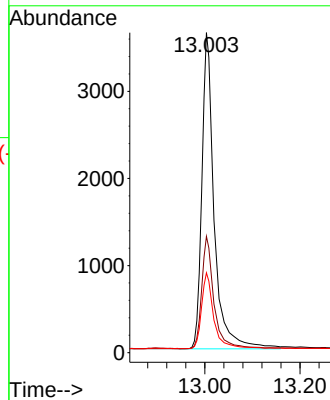
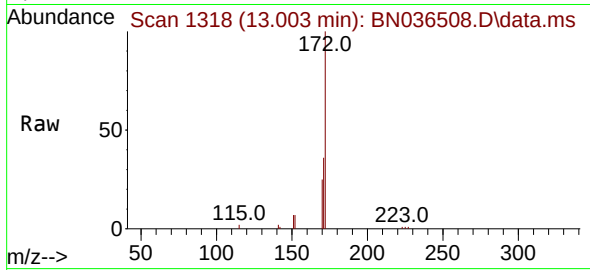




#15
2-Fluorobiphenyl
Concen: 0.444 ng
RT: 13.003 min Scan# 11
Delta R.T. -0.016 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

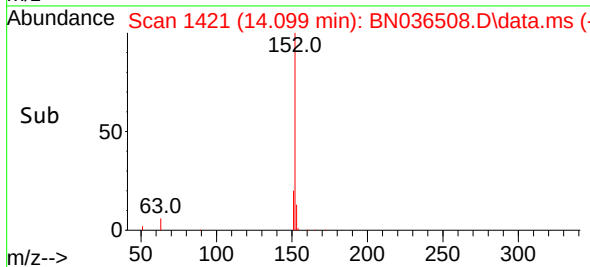
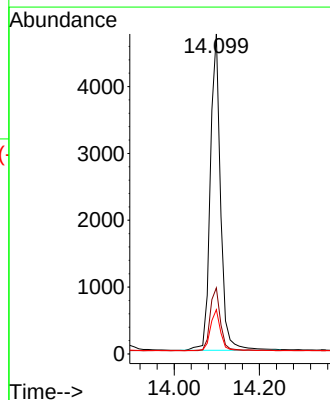
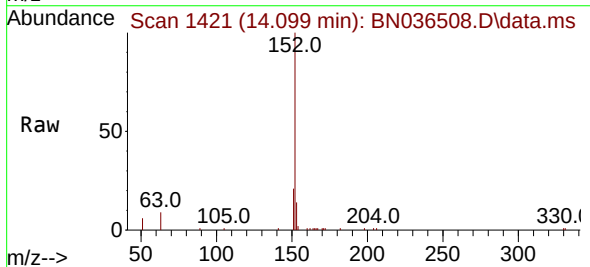
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

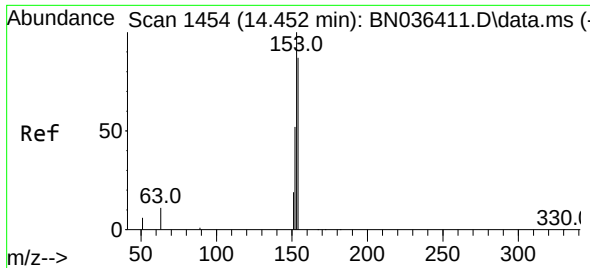
Tgt Ion:	172	Resp:	7811
Ion Ratio	Lower	Upper	
172	100		
171	36.3	29.6	44.4
170	25.0	19.8	29.6



#16
Acenaphthylene
Concen: 0.382 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:	152	Resp:	7894
Ion Ratio	Lower	Upper	
152	100		
151	20.1	15.8	23.8
153	12.8	10.2	15.2

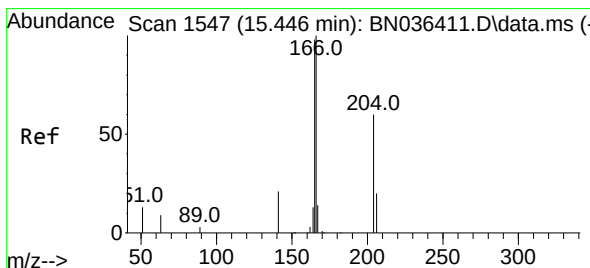
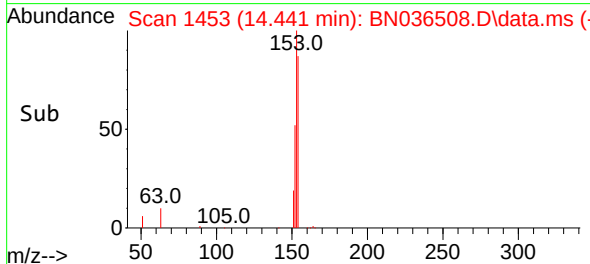
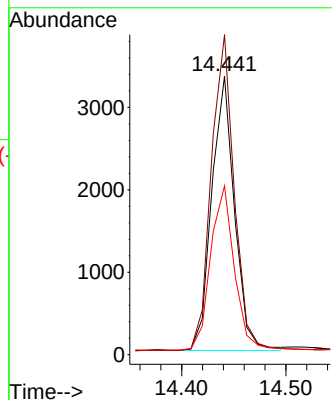
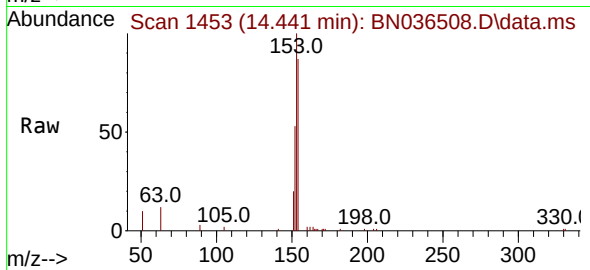




#17
Acenaphthene
Concen: 0.366 ng
RT: 14.441 min Scan# 1453
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

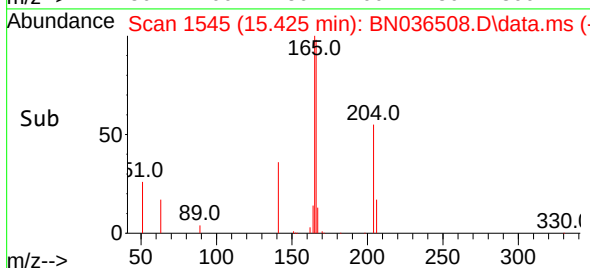
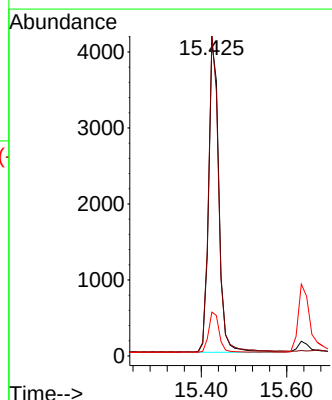
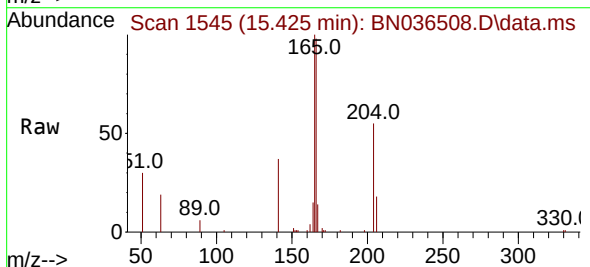
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

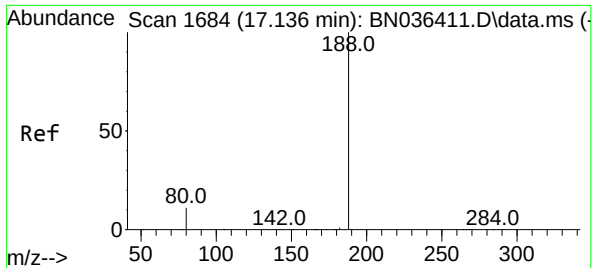
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.0	93.3	139.9
152	63.2	48.8	73.2



#18
Fluorene
Concen: 0.362 ng
RT: 15.425 min Scan# 1545
Delta R.T. -0.021 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.5	119.3
167	12.7	10.4	15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.124 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

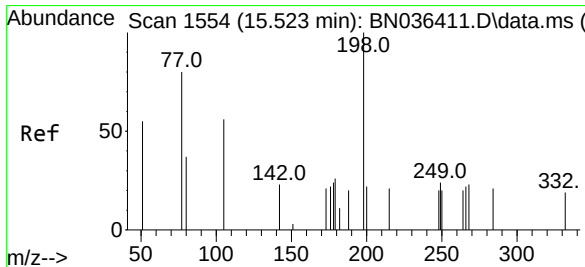
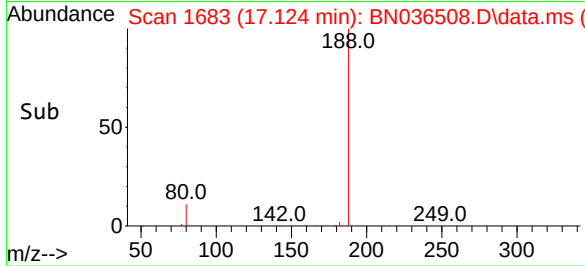
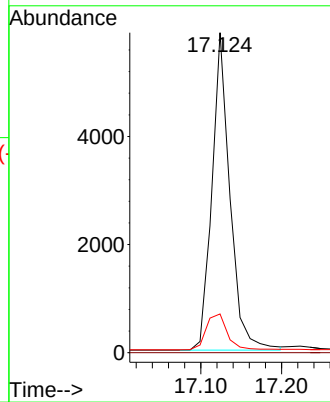
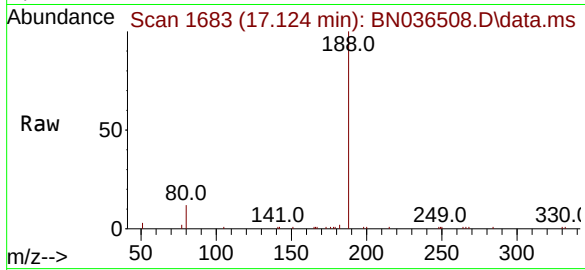
Tgt Ion:188 Resp: 9092

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.307 ng

RT: 15.510 min Scan# 1553

Delta R.T. -0.013 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

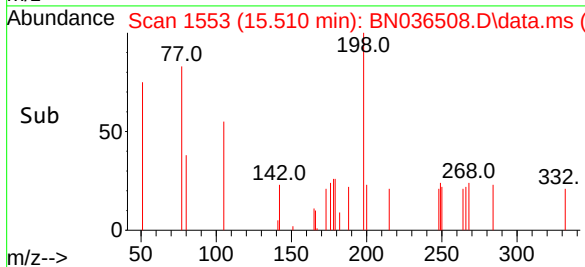
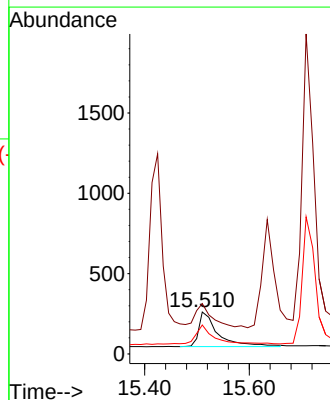
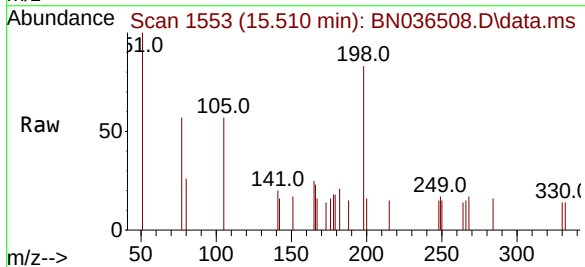
Tgt Ion:198 Resp: 548

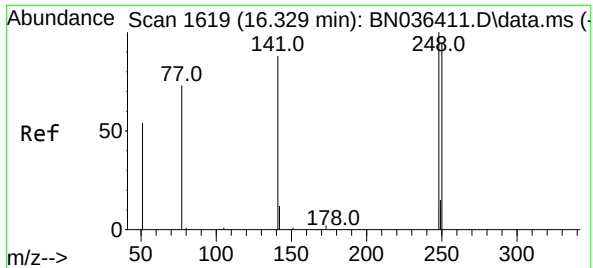
Ion Ratio Lower Upper

198 100

51 120.3 86.6 129.8

105 69.0 57.5 86.3

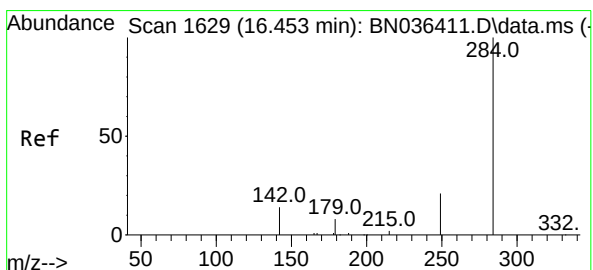
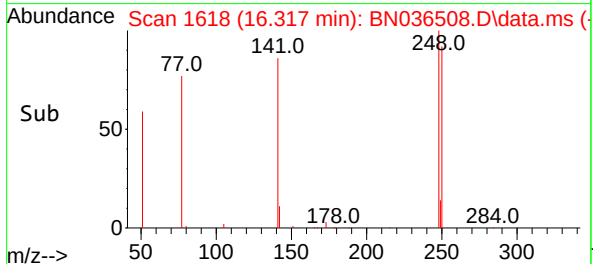
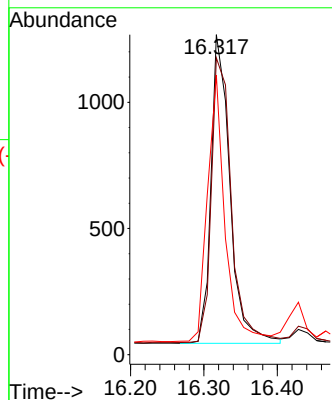
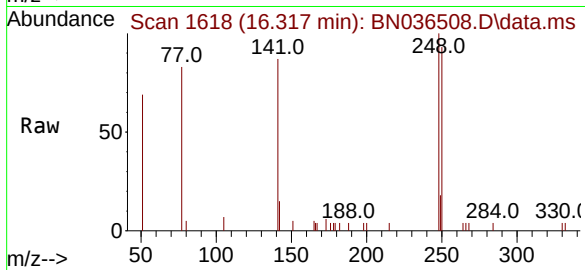




#21
4-Bromophenyl-phenylether
Concen: 0.404 ng
RT: 16.317 min Scan# 1618
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

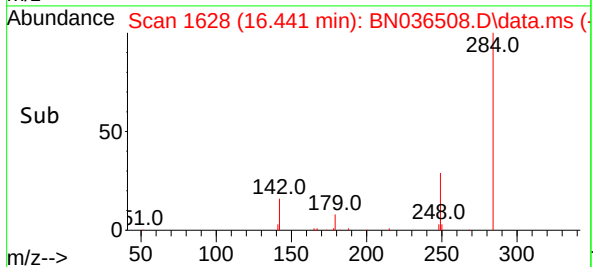
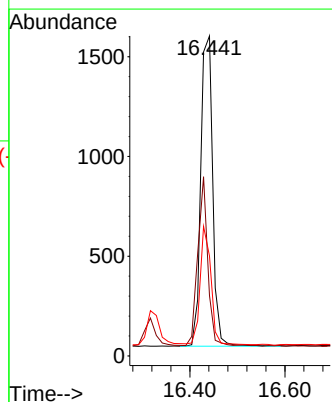
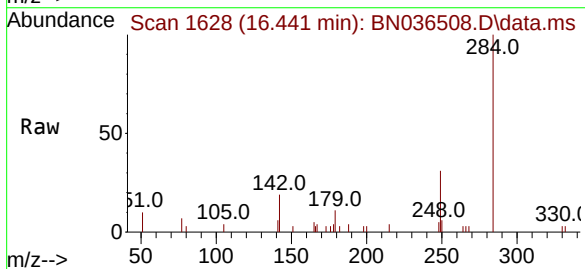
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

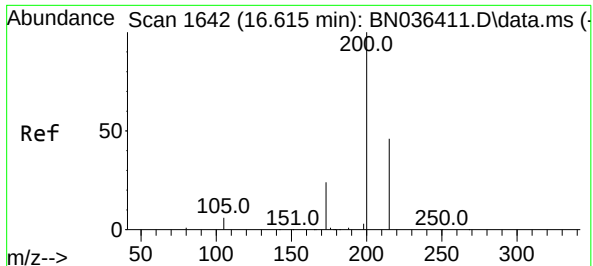
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.7	76.1	114.1
141	87.4	71.7	107.5



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion	Ratio	Lower	Upper
284	100		
142	46.4	33.4	50.0
249	34.2	28.6	43.0





#23

Atrazine

Concen: 0.375 ng

RT: 16.602 min Scan# 1641

Delta R.T. -0.012 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

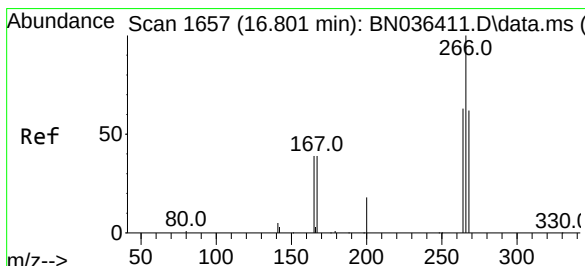
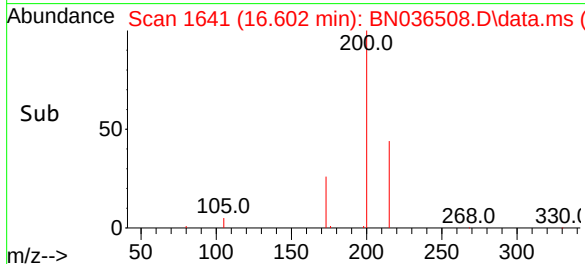
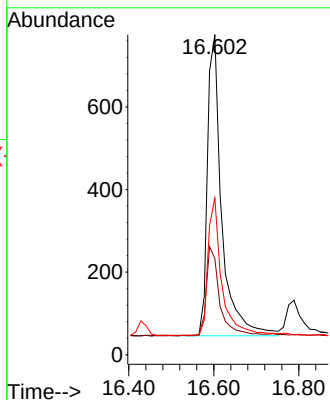
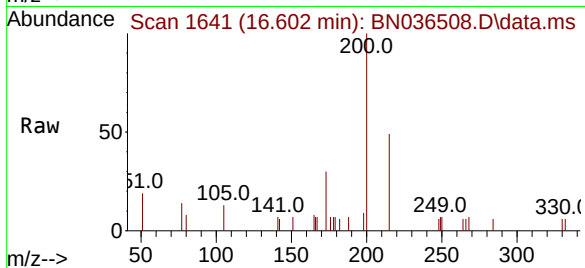
Tgt Ion:200 Resp: 1700

Ion Ratio Lower Upper

200 100

173 30.1 23.2 34.8

215 48.9 40.0 60.0



#24

Pentachlorophenol

Concen: 0.346 ng

RT: 16.789 min Scan# 1656

Delta R.T. -0.012 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

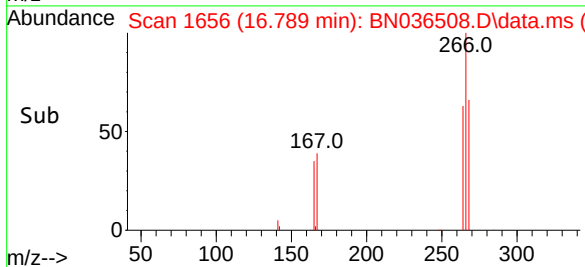
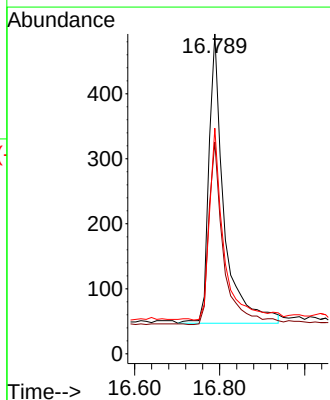
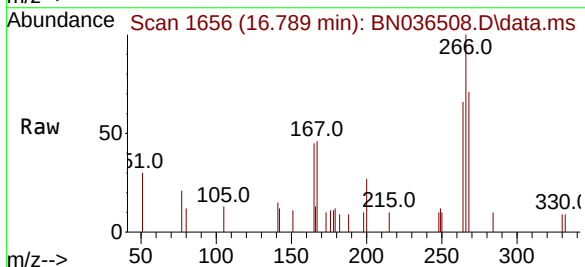
Tgt Ion:266 Resp: 1101

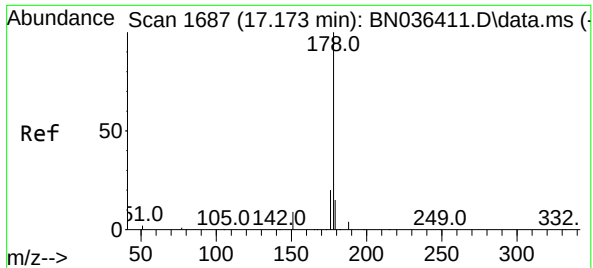
Ion Ratio Lower Upper

266 100

264 61.3 50.6 76.0

268 63.4 51.9 77.9

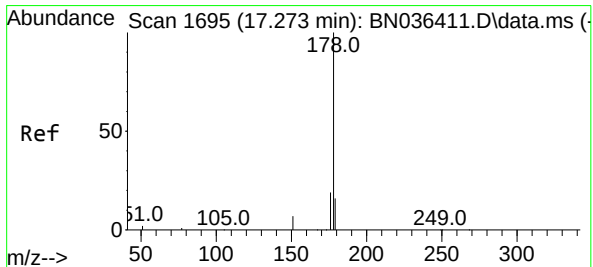
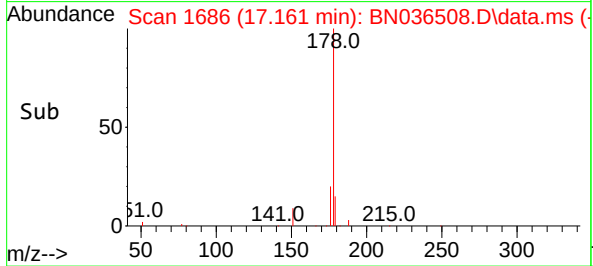
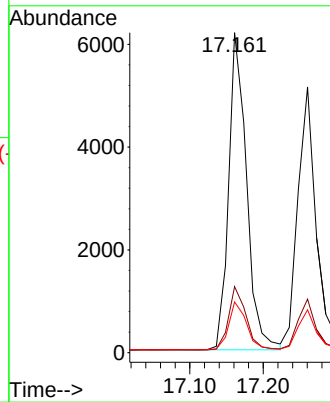
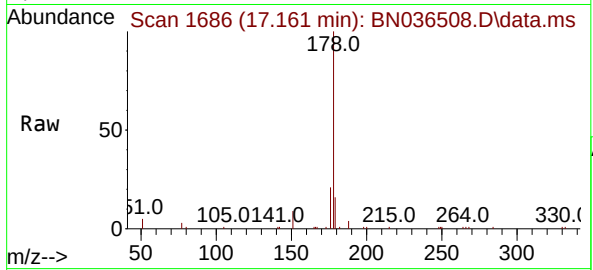




#25
Phenanthrene
Concen: 0.397 ng
RT: 17.161 min Scan# 1686
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

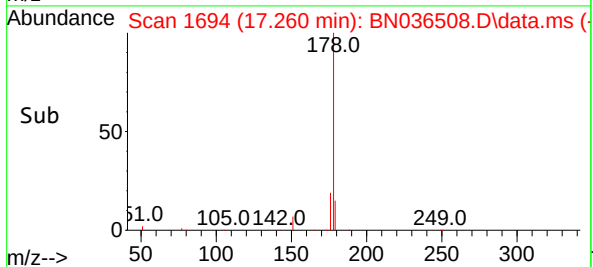
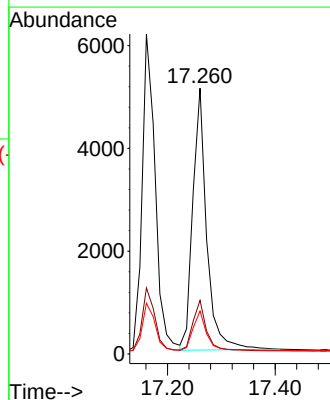
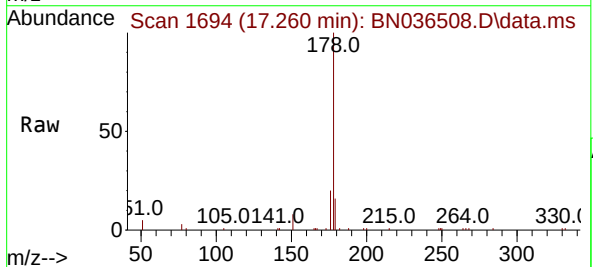
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

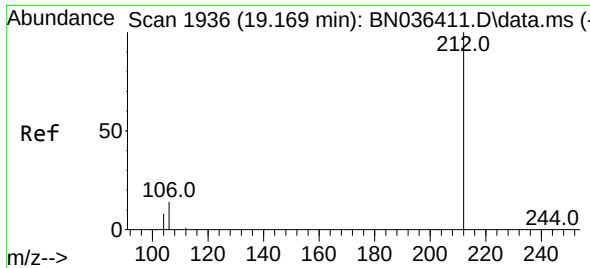
Tgt Ion:178 Resp: 10441
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.2 12.4 18.6



#26
Anthracene
Concen: 0.395 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:178 Resp: 9164
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.0 12.4 18.6

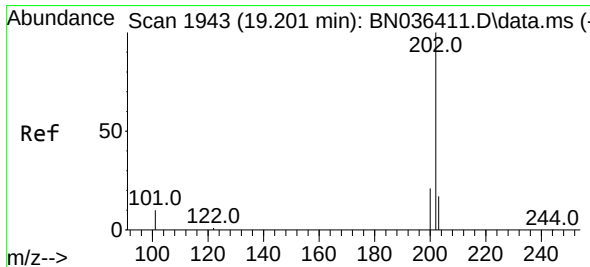
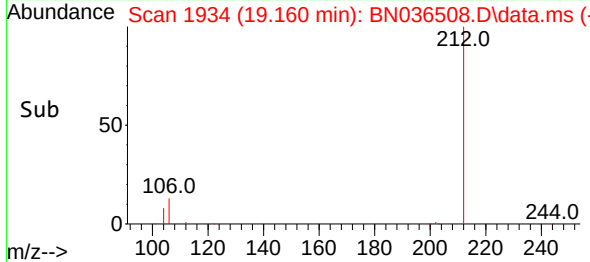
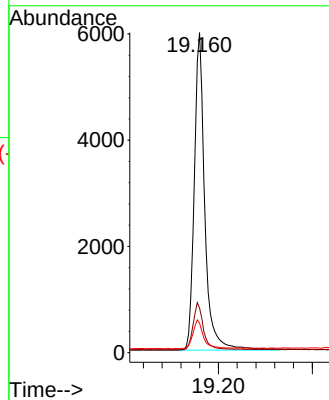
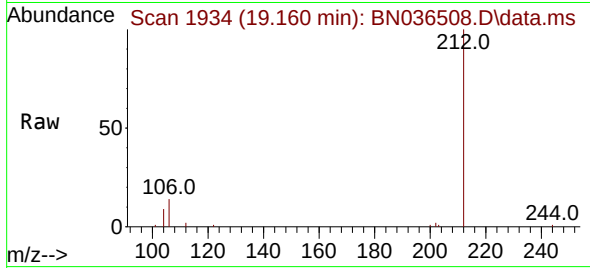




#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 19.160 min Scan# 1936
Delta R.T. -0.009 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

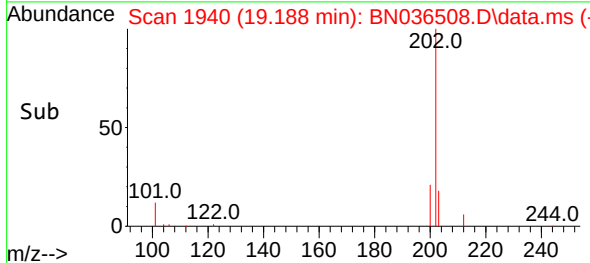
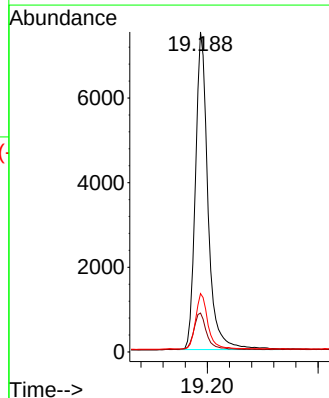
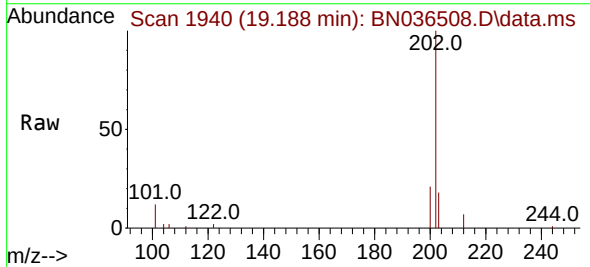
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

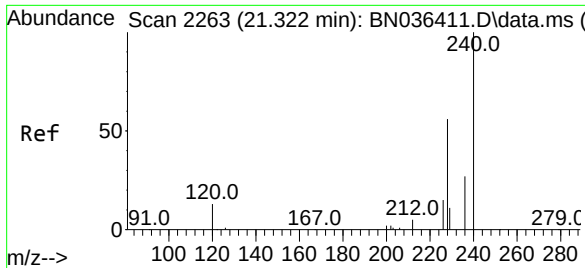
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.5	11.5	17.3
104	9.0	7.1	10.7



#28
Fluoranthene
Concen: 0.367 ng
RT: 19.188 min Scan# 1940
Delta R.T. -0.014 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.2	13.8
203	17.1	13.4	20.0

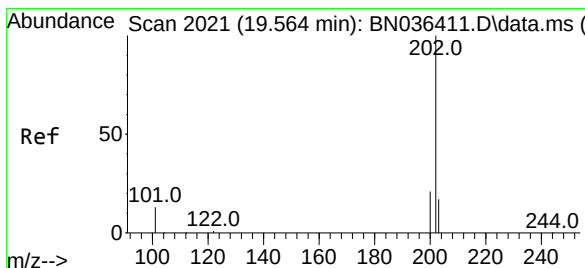
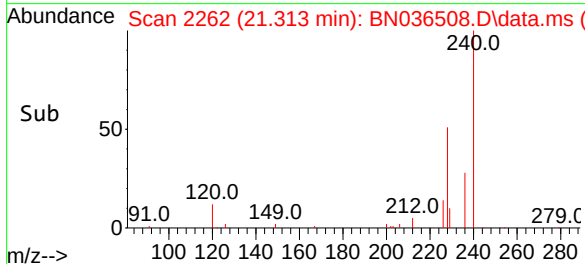
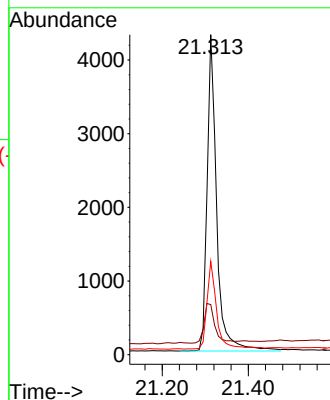
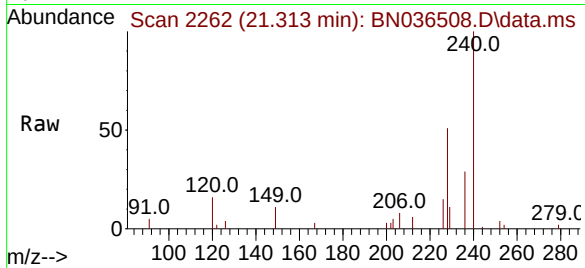




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

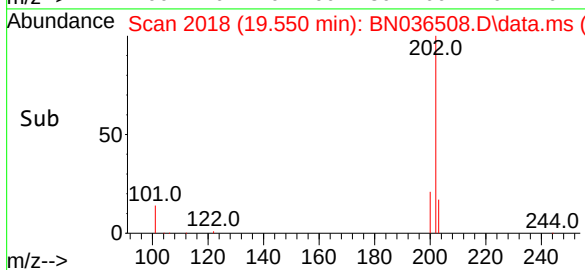
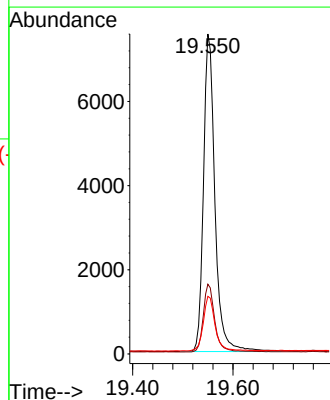
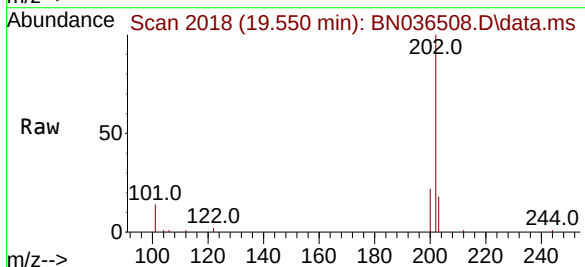
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

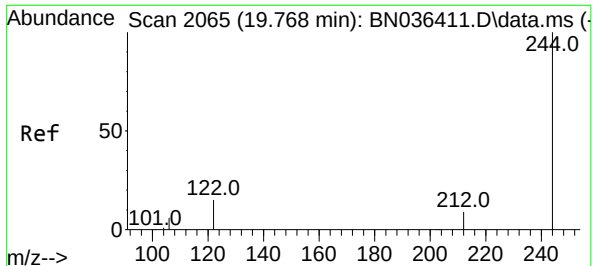
Tgt Ion:240 Resp: 6639
Ion Ratio Lower Upper
240 100
120 15.7 13.3 19.9
236 29.1 23.0 34.6



#30
Pyrene
Concen: 0.468 ng
RT: 19.550 min Scan# 2018
Delta R.T. -0.014 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:202 Resp: 11970
Ion Ratio Lower Upper
202 100
200 21.3 16.9 25.3
203 17.7 13.9 20.9

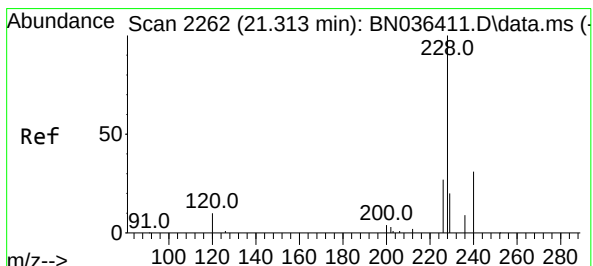
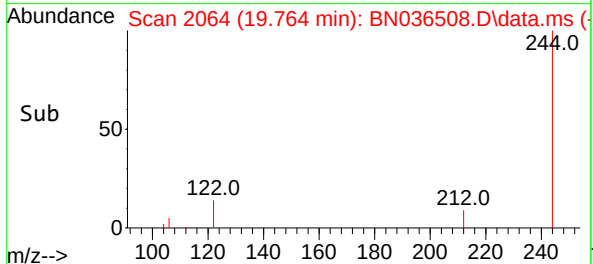
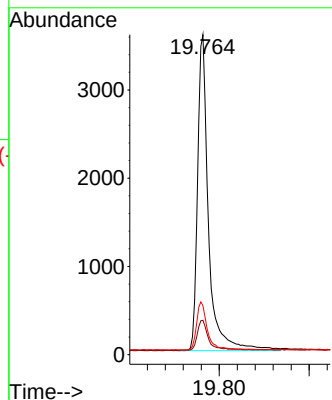
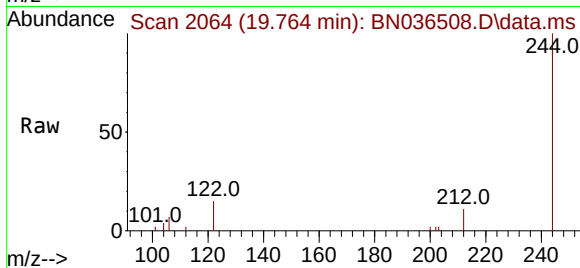




#31
Terphenyl-d14
Concen: 0.427 ng
RT: 19.764 min Scan# 2064
Delta R.T. -0.005 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

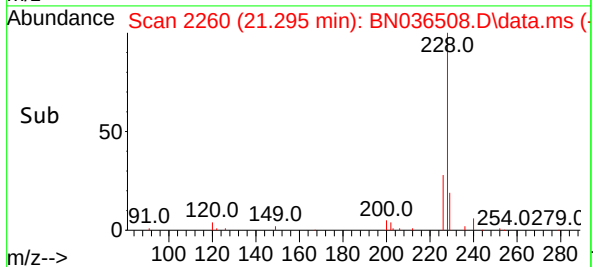
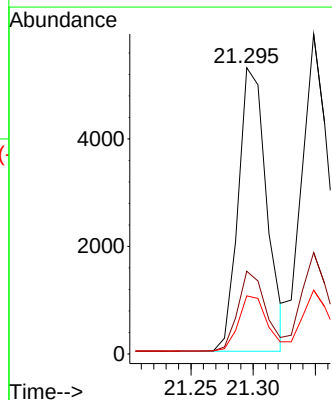
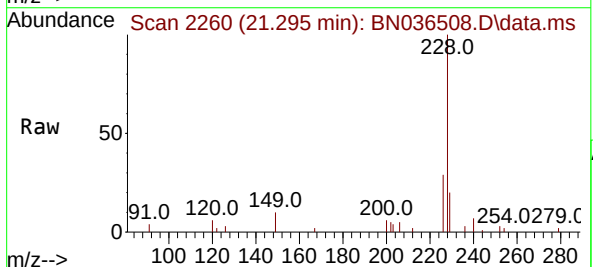
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

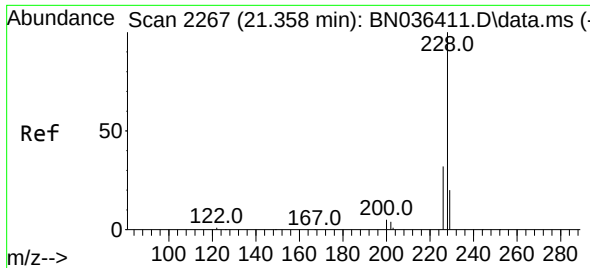
Tgt Ion:244 Resp: 6045
Ion Ratio Lower Upper
244 100
212 10.8 8.1 12.1
122 15.4 12.8 19.2



#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.295 min Scan# 2260
Delta R.T. -0.018 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:228 Resp: 8384
Ion Ratio Lower Upper
228 100
226 28.9 22.2 33.2
229 20.3 16.5 24.7





#33

Chrysene

Concen: 0.420 ng

RT: 21.349 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

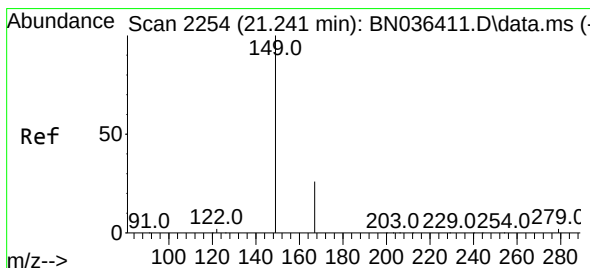
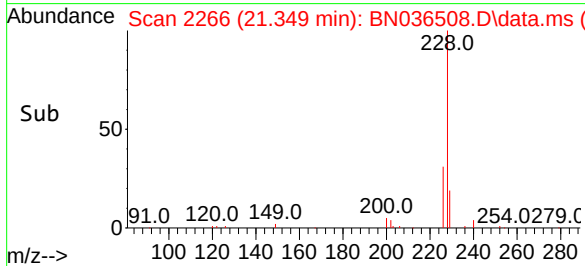
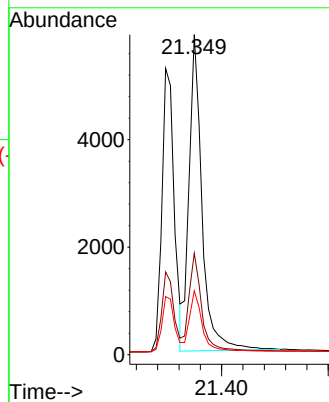
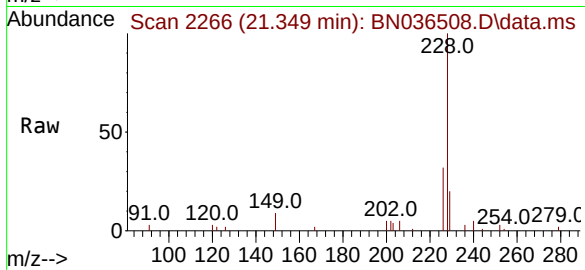
Tgt Ion:228 Resp: 9942

Ion Ratio Lower Upper

228 100

226 31.7 25.5 38.3

229 19.9 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.479 ng

RT: 21.232 min Scan# 2253

Delta R.T. -0.009 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

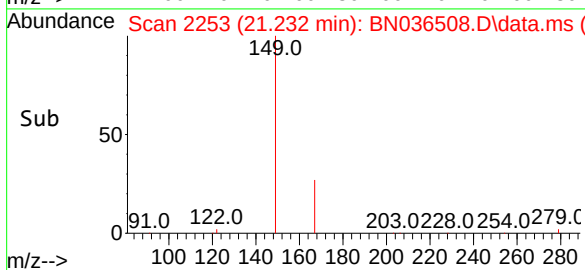
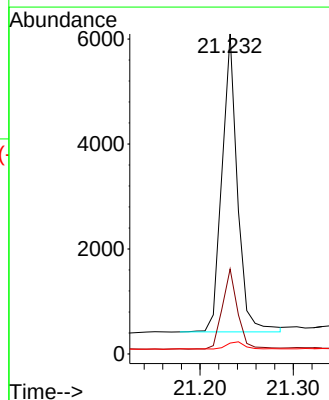
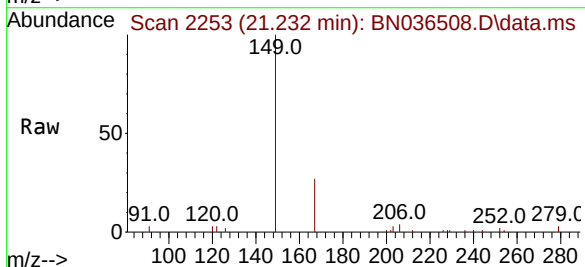
Tgt Ion:149 Resp: 6526

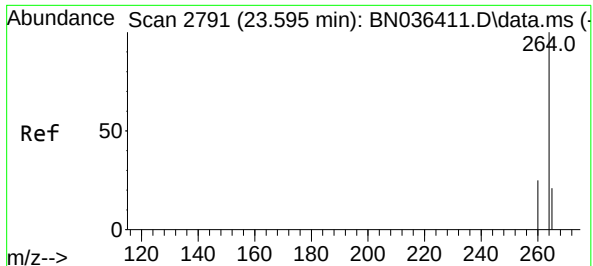
Ion Ratio Lower Upper

149 100

167 26.6 21.2 31.8

279 2.7 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.581 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

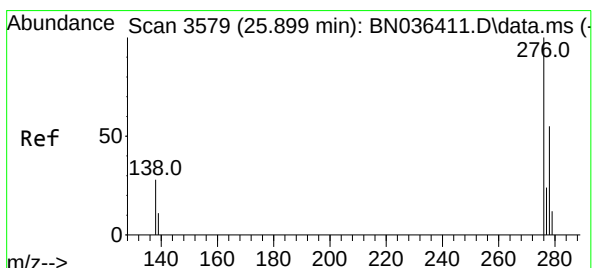
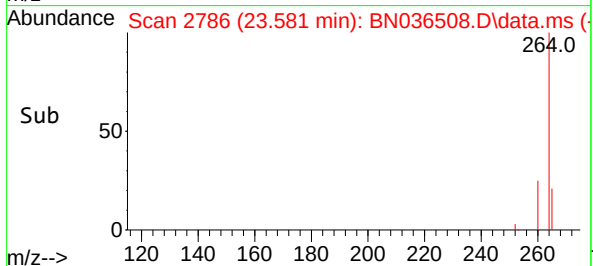
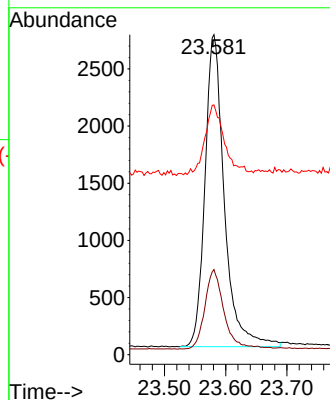
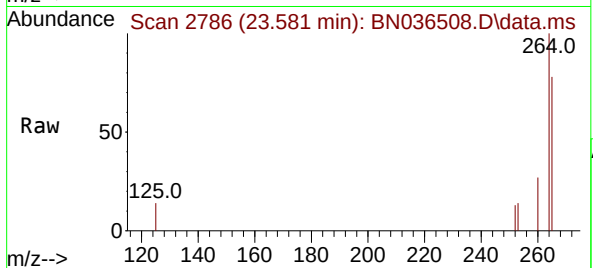
Tgt Ion:264 Resp: 6000

Ion Ratio Lower Upper

264 100

260 26.6 20.9 31.3

265 78.1 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.372 ng

RT: 25.879 min Scan# 3572

Delta R.T. -0.020 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

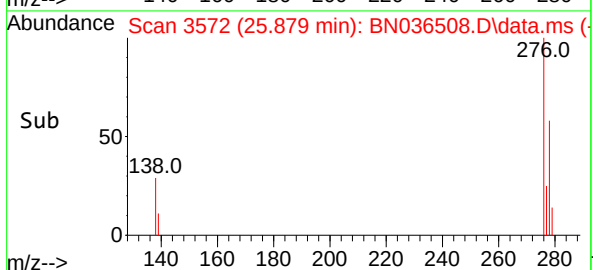
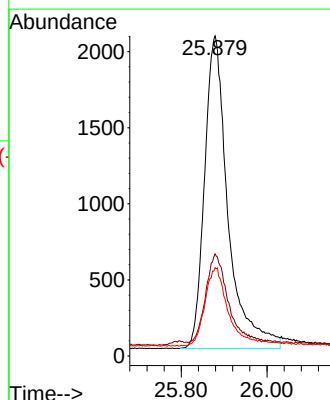
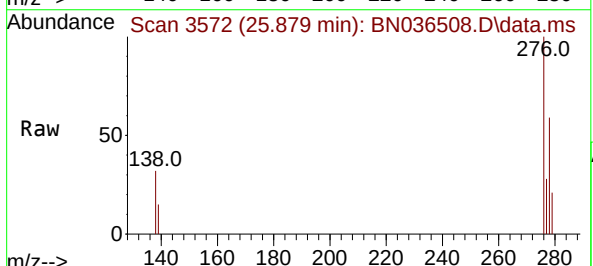
Tgt Ion:276 Resp: 7809

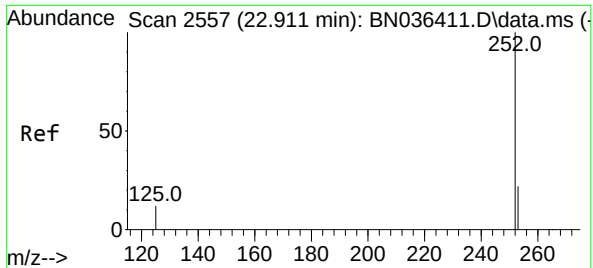
Ion Ratio Lower Upper

276 100

138 26.5 22.2 33.2

277 24.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.420 ng m

RT: 22.897 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

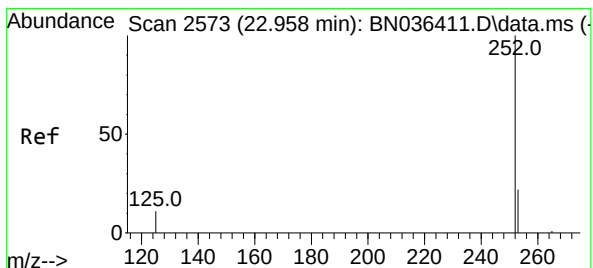
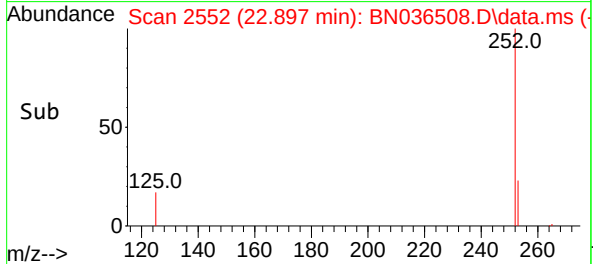
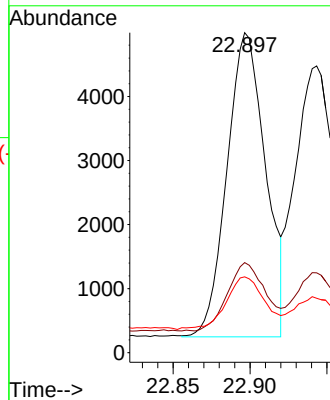
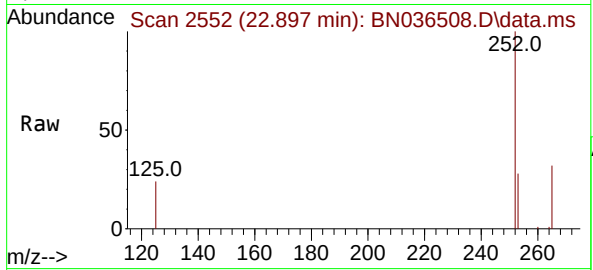
Tgt Ion:252 Resp: 8294

Ion Ratio Lower Upper

252 100

253 28.1 21.9 32.9

125 23.7 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.943 min Scan# 2568

Delta R.T. -0.015 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

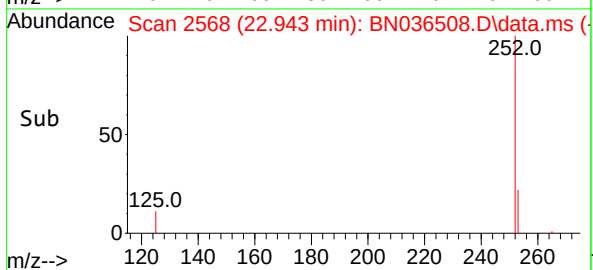
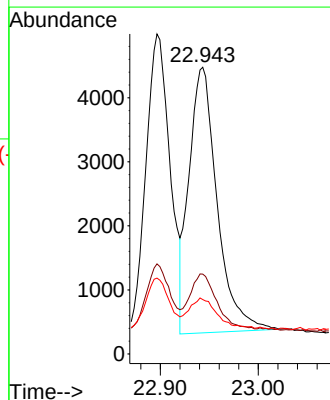
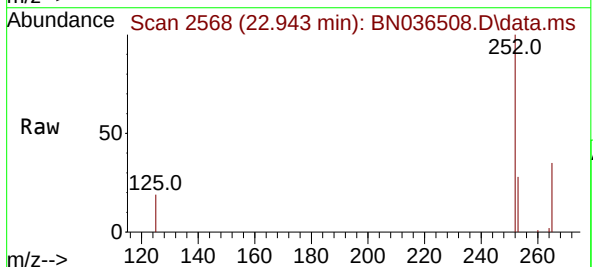
Tgt Ion:252 Resp: 8277

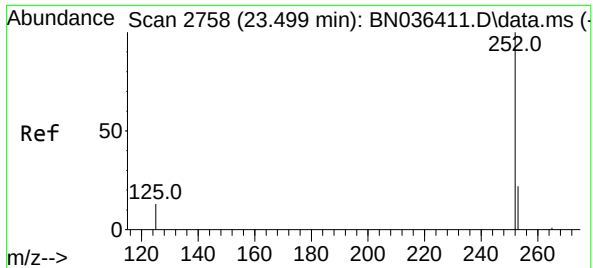
Ion Ratio Lower Upper

252 100

253 27.9 22.2 33.4

125 19.0 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.421 ng

RT: 23.481 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

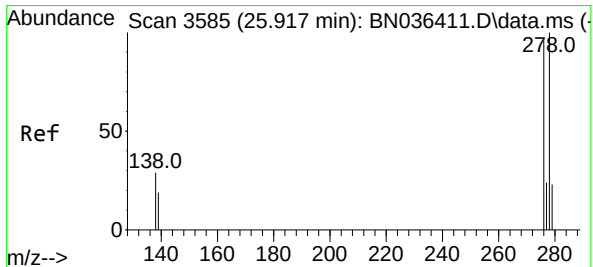
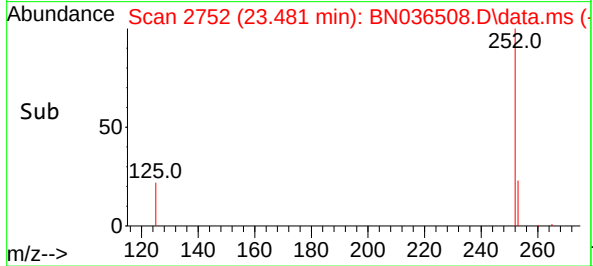
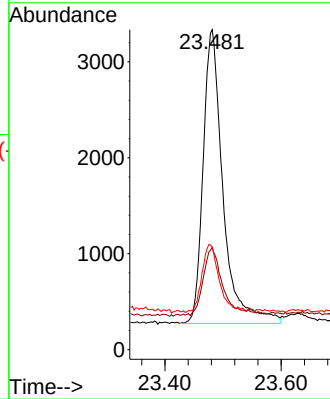
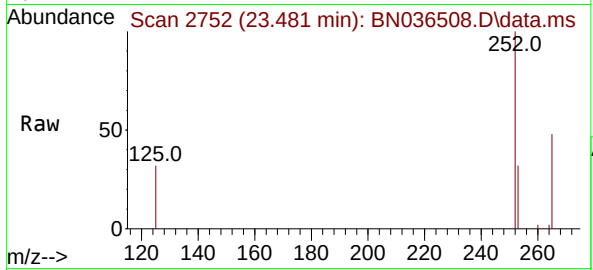
Tgt Ion:252 Resp: 7264

Ion Ratio Lower Upper

252 100

253 32.0 24.4 36.6

125 32.1 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

RT: 25.896 min Scan# 3578

Delta R.T. -0.020 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

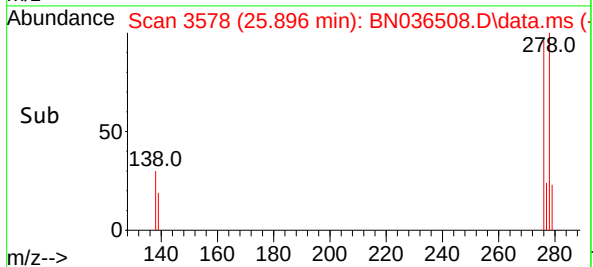
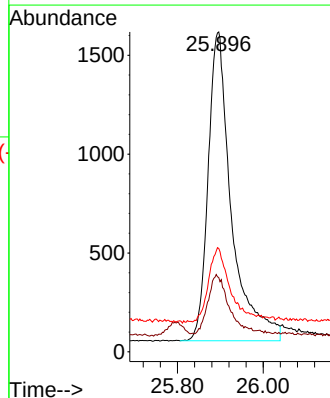
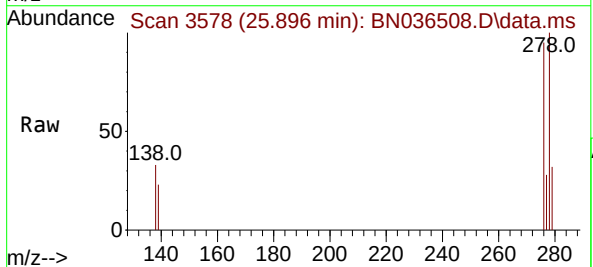
Tgt Ion:278 Resp: 5914

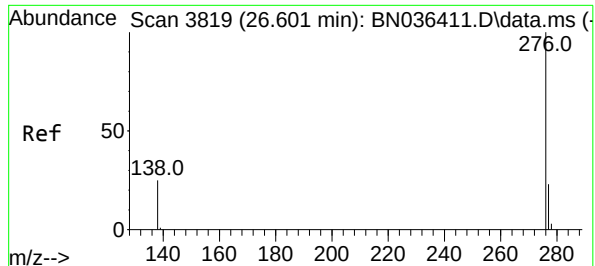
Ion Ratio Lower Upper

278 100

139 23.2 18.5 27.7

279 32.3 24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.367 ng

RT: 26.572 min Scan# 3809

Delta R.T. -0.029 min

Lab File: BN036508.D

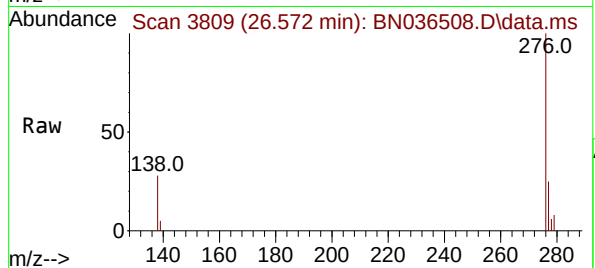
Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



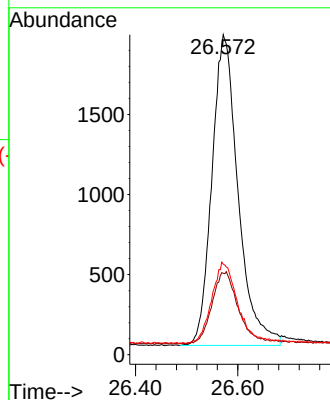
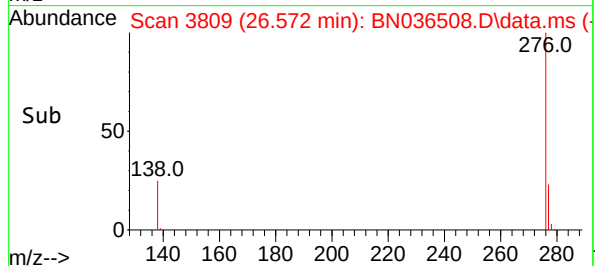
Tgt Ion:276 Resp: 6890

Ion Ratio Lower Upper

276 100

277 25.4 20.7 31.1

138 28.3 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036508.D
 Acq On : 26 Feb 2025 13:43
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Feb 26 14:09:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	125	-0.01
2	1,4-Dioxane	0.438	0.467	-6.6	135	0.00
3	n-Nitrosodimethylamine	0.760	0.818	-7.6	134	-0.01
4 S	2-Fluorophenol	0.945	0.858	9.2	114	-0.01
5 S	Phenol-d6	1.109	1.001	9.7	121	-0.02
6	bis(2-Chloroethyl)ether	1.160	1.170	-0.9	135	-0.02
7 I	Naphthalene-d8	1.000	1.000	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.395	0.386	2.3	132	-0.02
9	Naphthalene	1.154	1.126	2.4	126	-0.02
10	Hexachlorobutadiene	0.281	0.273	2.8	120	-0.01
11 SURR	2-Methylnaphthalene-d10	0.615	0.593	3.6	123	-0.02
12	2-Methylnaphthalene	0.757	0.730	3.6	124	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	130	-0.01
14 S	2,4,6-Tribromophenol	0.198	0.154	22.2	107	-0.01
15 S	2-Fluorobiphenyl	1.504	1.669	-11.0	157#	-0.02
16	Acenaphthylene	1.767	1.687	4.5	129	-0.01
17	Acenaphthene	1.180	1.081	8.4	122	-0.01
18	Fluorene	1.680	1.518	9.6	119	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	109	-0.01
20	4,6-Dinitro-2-methylphenol	0.078	0.060	23.1	96	-0.01
21	4-Bromophenyl-phenylether	0.239	0.241	-0.8	114	-0.01
22	Hexachlorobenzene	0.295	0.299	-1.4	115	-0.01
23	Atrazine	0.199	0.187	6.0	109	-0.01
24	Pentachlorophenol	0.140	0.121	13.6	108	-0.01
25	Phenanthrene	1.156	1.148	0.7	114	-0.01
26	Anthracene	1.020	1.008	1.2	114	-0.01
27 SURR	Fluoranthene-d10	1.112	1.020	8.3	105	0.00
28	Fluoranthene	1.421	1.302	8.4	105	-0.01
29 I	Chrysene-d12	1.000	1.000	0.0	89	0.00
30	Pyrene	1.541	1.803	-17.0	104	-0.01
31 S	Terphenyl-d14	0.854	0.911	-6.7	95	0.00
32	Benzo(a)anthracene	1.316	1.263	4.0	87	-0.02
33	Chrysene	1.425	1.498	-5.1	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	0.983	-19.9	112	0.00
35 I	Perylene-d12	1.000	1.000	0.0	78	-0.01
36	Indeno(1,2,3-cd)pyrene	1.398	1.302	6.9	73	-0.02
37	Benzo(b)fluoranthene	1.317	1.382	-4.9	85	-0.01
38	Benzo(k)fluoranthene	1.356	1.380	-1.8	79	-0.01
39 C	Benzo(a)pyrene	1.150	1.211	-5.3	85	-0.02
40	Dibenzo(a,h)anthracene	1.103	0.986	10.6	71	-0.02
41	Benzo(g,h,i)perylene	1.250	1.148	8.2	71	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036508.D
Acq On : 26 Feb 2025 13:43
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Feb 26 14:09:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
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	125	-0.01
2	1,4-Dioxane	0.400	0.427	-6.7	135	0.00
3	n-Nitrosodimethylamine	0.400	0.430	-7.5	134	-0.01
4 S	2-Fluorophenol	0.400	0.363	9.3	114	-0.01
5 S	Phenol-d6	0.400	0.361	9.8	121	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.404	-1.0	135	-0.02
7 I	Naphthalene-d8	0.400	0.400	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.400	0.391	2.3	132	-0.02
9	Naphthalene	0.400	0.390	2.5	126	-0.02
10	Hexachlorobutadiene	0.400	0.389	2.8	120	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.386	3.5	123	-0.02
12	2-Methylnaphthalene	0.400	0.386	3.5	124	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	130	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.310	22.5	107	-0.01
15 S	2-Fluorobiphenyl	0.400	0.444	-11.0	157	-0.02
16	Acenaphthylene	0.400	0.382	4.5	129	-0.01
17	Acenaphthene	0.400	0.366	8.5	122	-0.01
18	Fluorene	0.400	0.362	9.5	119	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	109	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.307	23.3	96	-0.01
21	4-Bromophenyl-phenylether	0.400	0.404	-1.0	114	-0.01
22	Hexachlorobenzene	0.400	0.406	-1.5	115	-0.01
23	Atrazine	0.400	0.375	6.3	109	-0.01
24	Pentachlorophenol	0.400	0.346	13.5	108	-0.01
25	Phenanthrene	0.400	0.397	0.8	114	-0.01
26	Anthracene	0.400	0.395	1.3	114	-0.01
27 SURR	Fluoranthene-d10	0.400	0.367	8.3	105	0.00
28	Fluoranthene	0.400	0.367	8.3	105	-0.01
29 I	Chrysene-d12	0.400	0.400	0.0	89	0.00
30	Pyrene	0.400	0.468	-17.0	104	-0.01
31 S	Terphenyl-d14	0.400	0.427	-6.7	95	0.00
32	Benzo(a)anthracene	0.400	0.384	4.0	87	-0.02
33	Chrysene	0.400	0.420	-5.0	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.479	-19.7	112	0.00
35 I	Perylene-d12	0.400	0.400	0.0	78	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	73	-0.02
37	Benzo(b)fluoranthene	0.400	0.420	-5.0	85	-0.01
38	Benzo(k)fluoranthene	0.400	0.407	-1.7	79	-0.01
39 C	Benzo(a)pyrene	0.400	0.421	-5.2	85	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.357	10.8	71	-0.02
41	Benzo(g,h,i)perylene	0.400	0.367	8.3	71	-0.03

(#) = 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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: BNA_N Calibration Date/Time: 02/26/2025 17:20

Lab File ID: BN036514.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.591		-3.9	50.0
Fluoranthene-d10	1.112	0.974		-12.4	50.0
2-Fluorophenol	0.945	0.869		-8.0	50.0
Phenol-d6	1.109	0.989		-10.8	50.0
Nitrobenzene-d5	0.395	0.396		0.3	50.0
2-Fluorobiphenyl	1.504	1.666		10.8	50.0
2,4,6-Tribromophenol	0.198	0.160		-19.2	50.0
Terphenyl-d14	0.854	0.937		9.7	50.0
1,4-Dioxane	0.438	0.440		0.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036514.D
 Acq On : 26 Feb 2025 17:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 02/27/2025
 Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 26 17:47:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2419	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5911	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	4026	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	7872	0.400	ng	-0.01
29) Chrysene-d12	21.313	240	5200	0.400	ng	0.00
35) Perylene-d12	23.581	264	4873	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2103	0.368	ng	-0.01
5) Phenol-d6	6.915	99	2393	0.357	ng	-0.02
8) Nitrobenzene-d5	8.896	82	2340	0.401	ng	-0.01
11) 2-Methylnaphthalene-d10	12.126	152	3493	0.384	ng	-0.02
14) 2,4,6-Tribromophenol	15.870	330	646	0.324	ng	-0.01
15) 2-Fluorobiphenyl	13.008	172	6709	0.443	ng	-0.01
27) Fluoranthene-d10	19.159	212	7665	0.350	ng	0.00
31) Terphenyl-d14	19.763	244	4873	0.439	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.261	88	1065	0.402	ng	# 93
3) n-Nitrosodimethylamine	3.571	42	1968	0.428	ng	# 92
6) bis(2-Chloroethyl)ether	7.168	93	2797	0.399	ng	98
9) Naphthalene	10.583	128	6691	0.392	ng	99
10) Hexachlorobutadiene	10.872	225	1663	0.401	ng	# 98
12) 2-Methylnaphthalene	12.197	142	4411	0.394	ng	98
16) Acenaphthylene	14.099	152	6958	0.391	ng	99
17) Acenaphthene	14.441	154	4551	0.383	ng	99
18) Fluorene	15.424	166	6233	0.369	ng	99
20) 4,6-Dinitro-2-methylph...	15.522	198	460	0.298	ng	89
21) 4-Bromophenyl-phenylether	16.329	248	1910	0.407	ng	# 77
22) Hexachlorobenzene	16.441	284	2423	0.418	ng	97
23) Atrazine	16.602	200	1468	0.374	ng	97
24) Pentachlorophenol	16.788	266	905	0.329	ng	99
25) Phenanthrene	17.161	178	8907	0.391	ng	100
26) Anthracene	17.260	178	7860	0.392	ng	99
28) Fluoranthene	19.187	202	9979	0.357	ng	99
30) Pyrene	19.554	202	10060	0.502	ng	100
32) Benzo(a)anthracene	21.304	228	6902	0.403	ng	100
33) Chrysene	21.348	228	7654	0.413	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	5377	0.504	ng	99
36) Indeno(1,2,3-cd)pyrene	25.876	276	6718	0.394	ng	99
37) Benzo(b)fluoranthene	22.896	252	6886m	0.429	ng	
38) Benzo(k)fluoranthene	22.943	252	7096	0.430	ng	97
39) Benzo(a)pyrene	23.481	252	5929	0.423	ng	# 84
40) Dibenzo(a,h)anthracene	25.893	278	5024	0.374	ng	96
41) Benzo(g,h,i)perylene	26.574	276	6064	0.398	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036514.D
Acq On : 26 Feb 2025 17:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

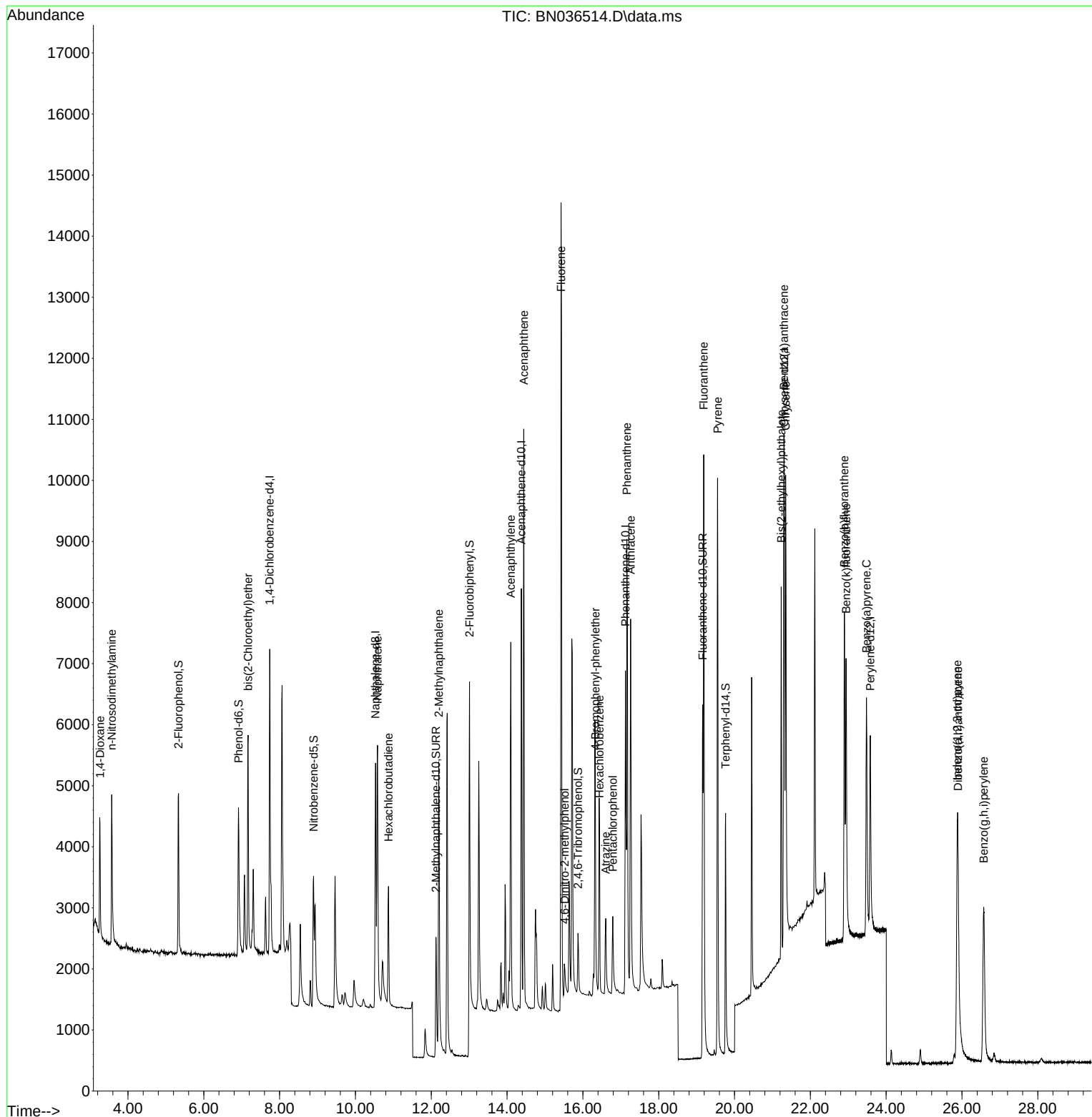
Manual Integrations

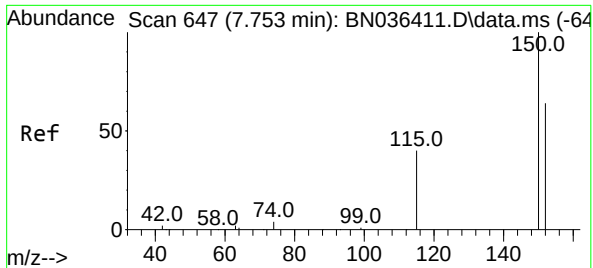
APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025

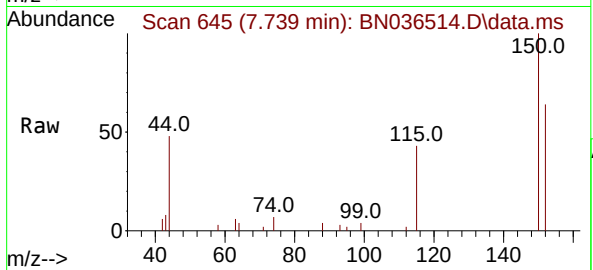
Quant Time: Feb 26 17:47:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

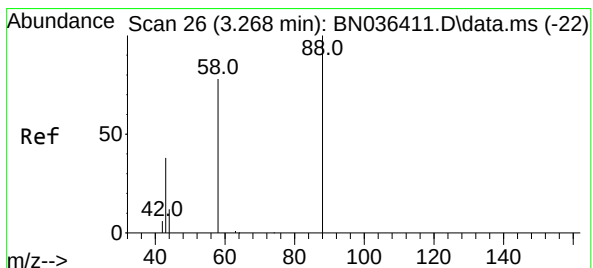
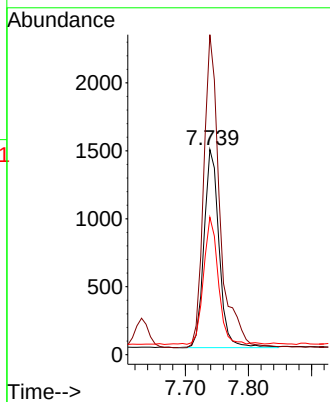
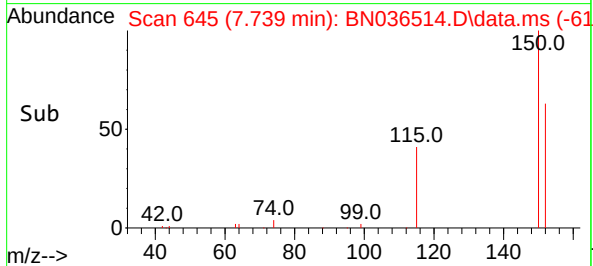
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion: 152 Resp: 2419
Ion Ratio Lower Upper
152 100
150 156.1 123.7 185.5
115 67.0 52.5 78.7

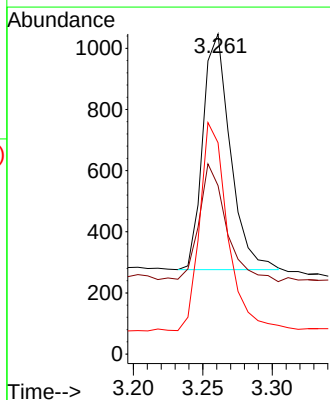
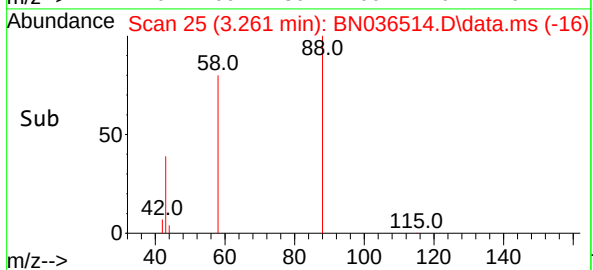
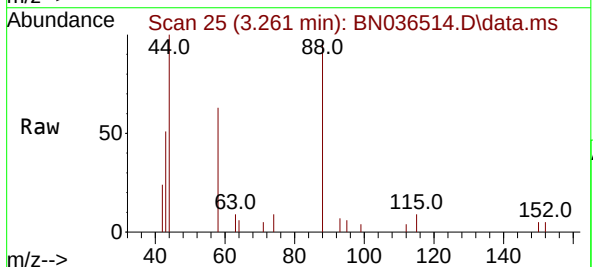
Manual Integrations
APPROVED

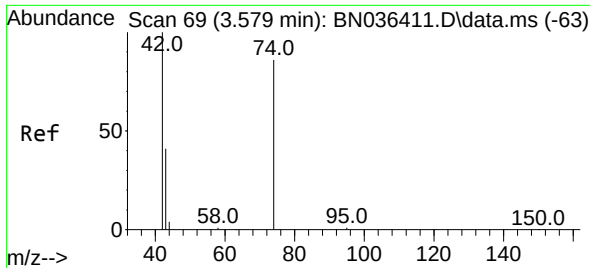
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion: 88 Resp: 1065
Ion Ratio Lower Upper
88 100
43 50.6 33.7 50.5#
58 90.1 68.9 103.3





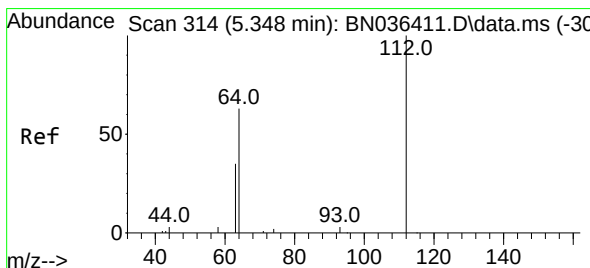
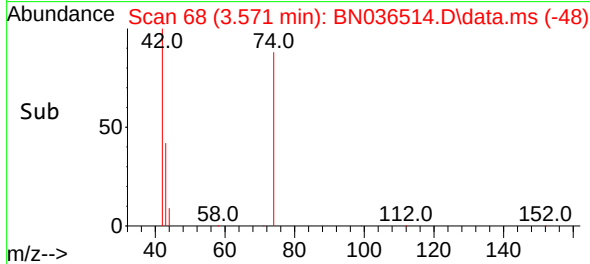
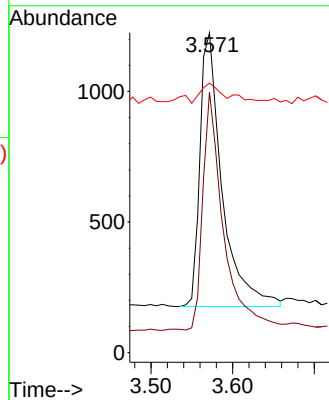
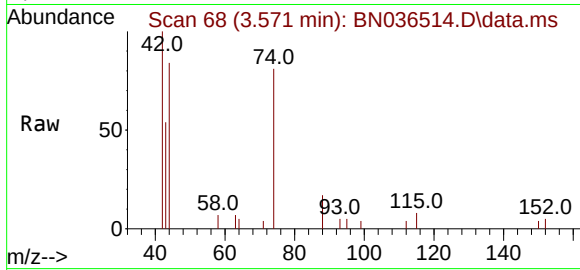
#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.571 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 42 Resp: 196
Ion Ratio Lower Upper
42 100
74 82.8 71.8 107.6
44 6.1 7.8 11.6

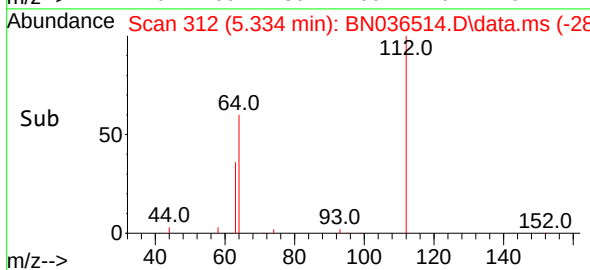
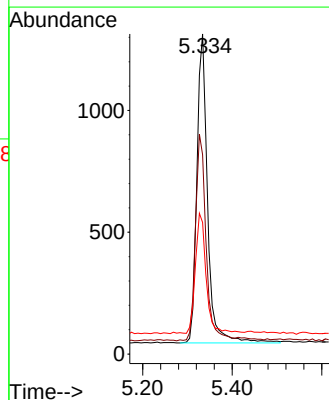
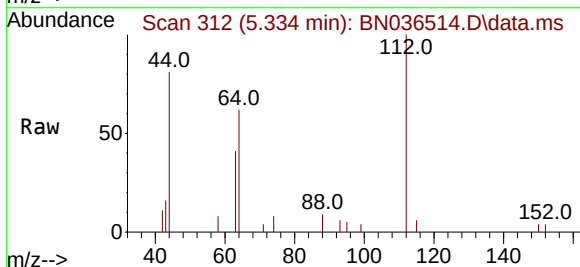
Manual Integrations
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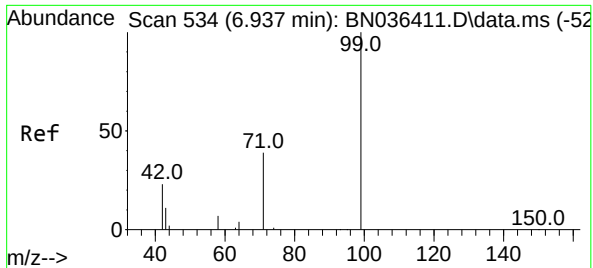
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:112 Resp: 2103
Ion Ratio Lower Upper
112 100
64 66.2 53.4 80.0
63 38.8 30.3 45.5





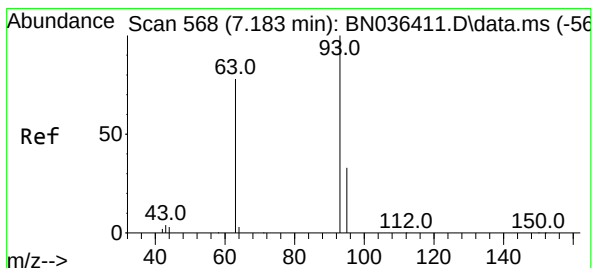
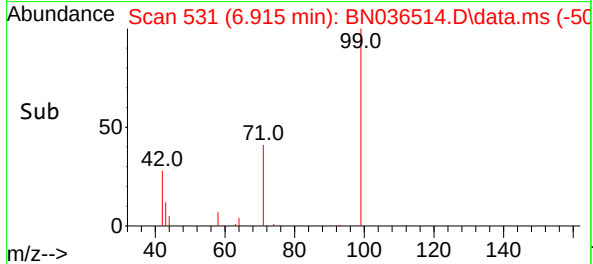
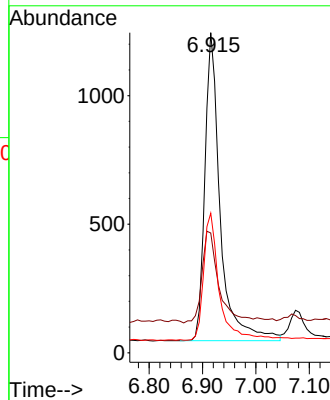
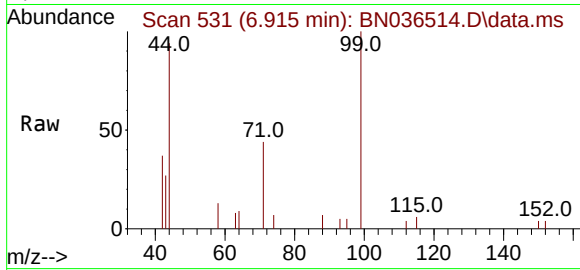
#5
Phenol-d6
Concen: 0.357 ng
RT: 6.915 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 239
Ion Ratio Lower Upper
99 100
42 32.6 21.7 32.5
71 42.7 32.6 49.0

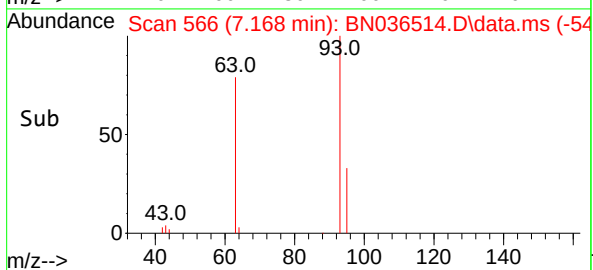
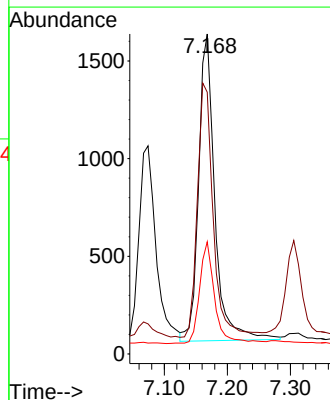
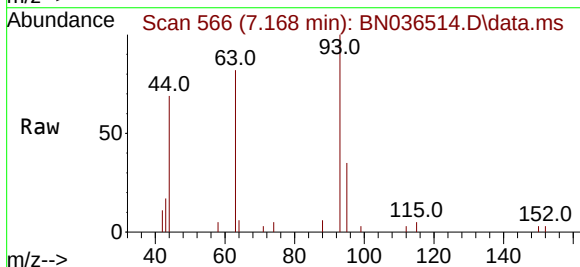
Manual Integrations
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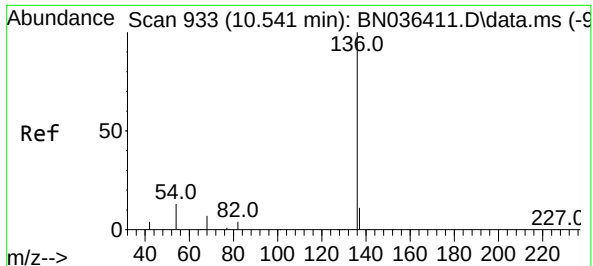
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.168 min Scan# 566
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

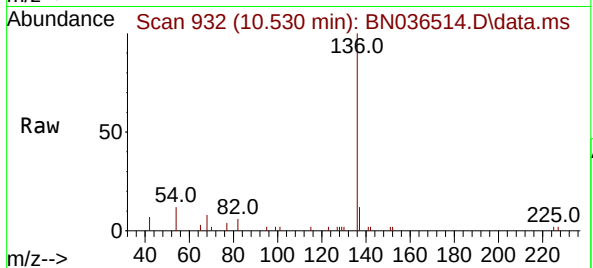
Tgt Ion: 93 Resp: 2797
Ion Ratio Lower Upper
93 100
63 81.7 66.3 99.5
95 31.4 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

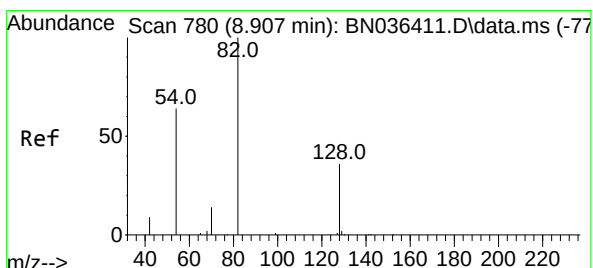
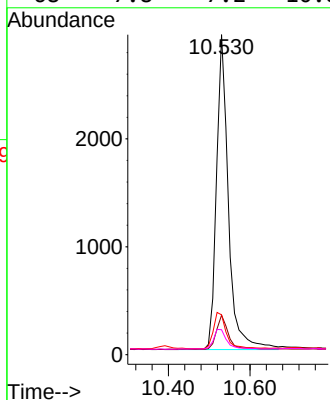
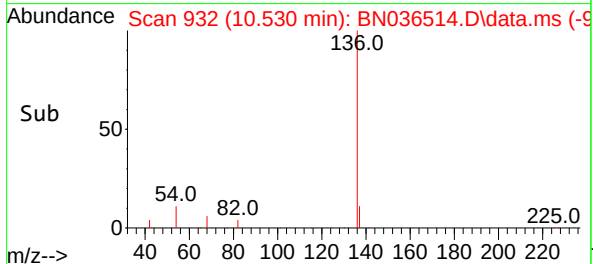
Instrument :
BNA_N
ClientSampleId :
SSTDC00.4EC



Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.1	15.1
54	12.5	11.8	17.6
68	7.8	7.2	10.8

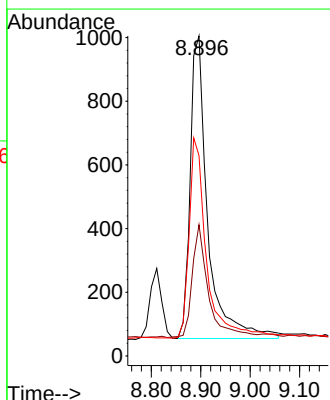
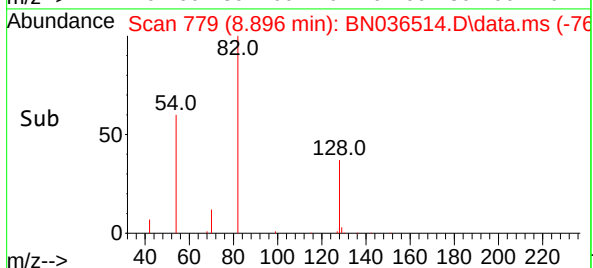
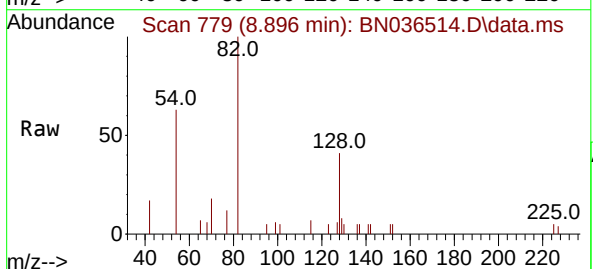
Manual Integrations
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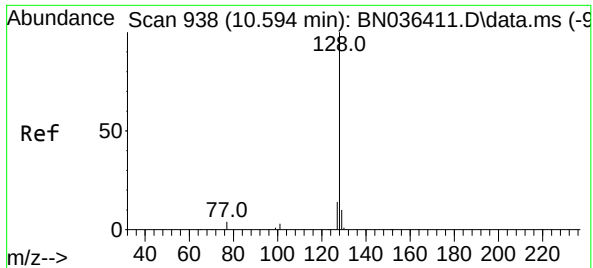
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.896 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion	Ratio	Lower	Upper
82	100		
128	41.0	31.9	47.9
54	62.6	53.1	79.7





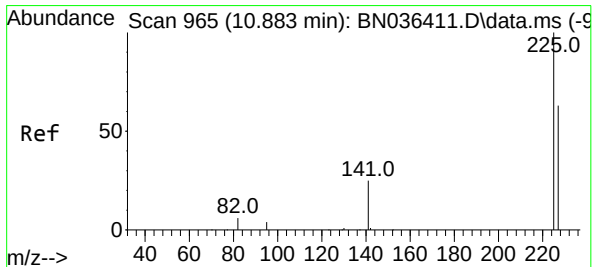
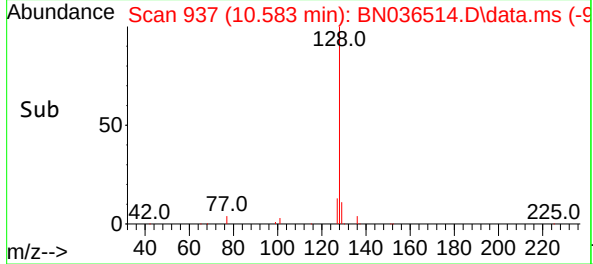
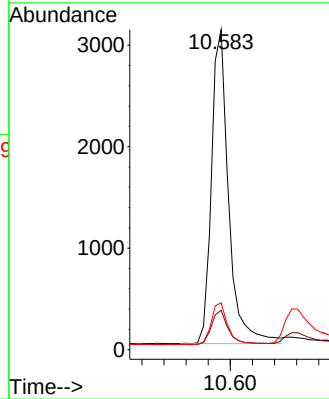
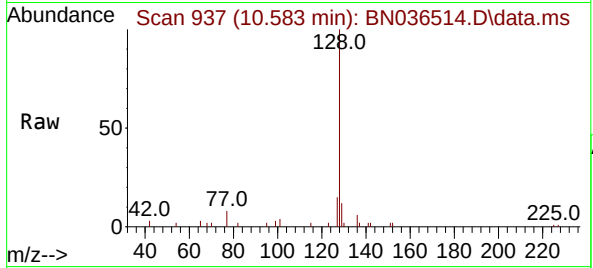
#9
Naphthalene
Concen: 0.392 ng
RT: 10.583 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:128 Resp: 669
Ion Ratio Lower Upper
128 100
129 12.3 9.6 14.4
127 14.6 12.0 18.0

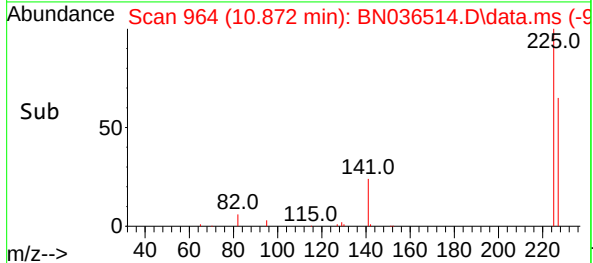
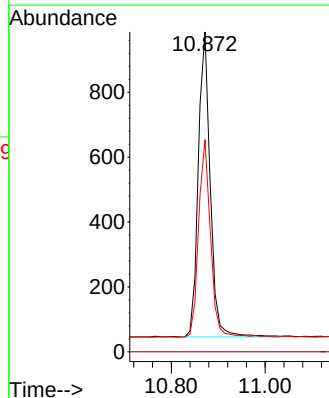
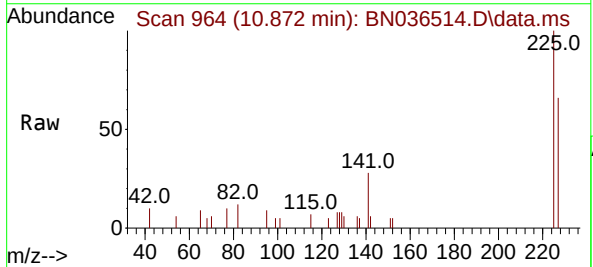
Manual Integrations
APPROVED

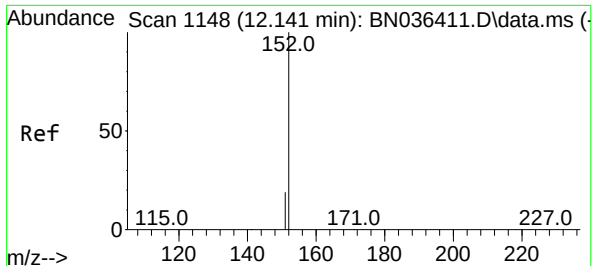
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#10
Hexachlorobutadiene
Concen: 0.401 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

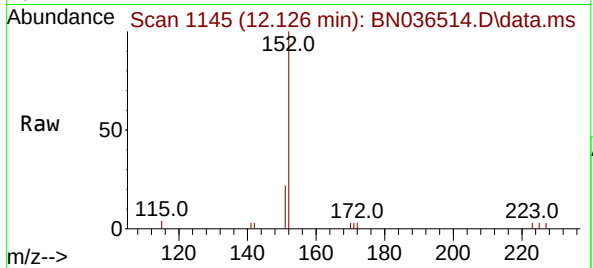
Tgt Ion:225 Resp: 1663
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 12.126 min Scan# 1145
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

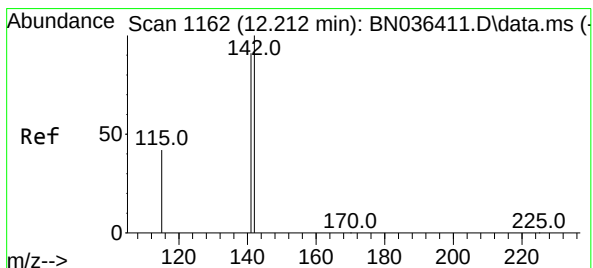
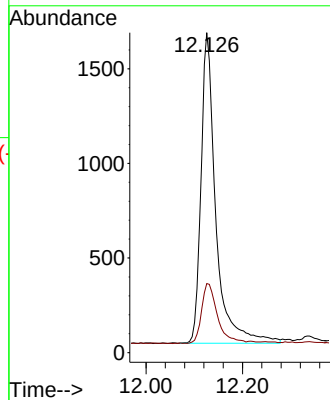
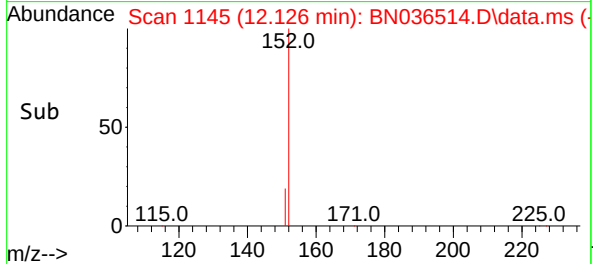
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:152 Resp: 349
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0

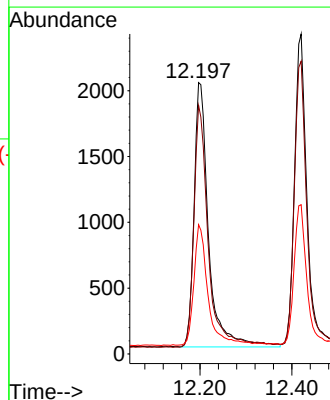
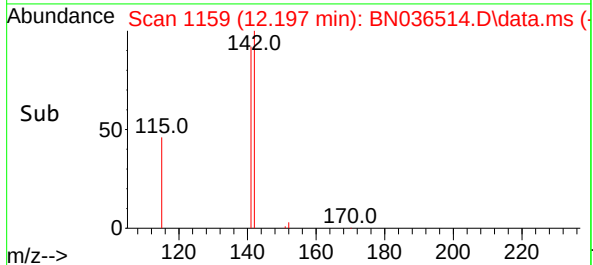
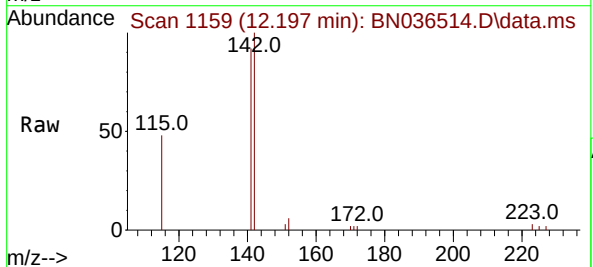
Manual Integrations
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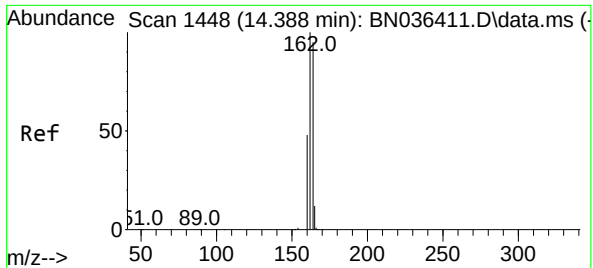
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

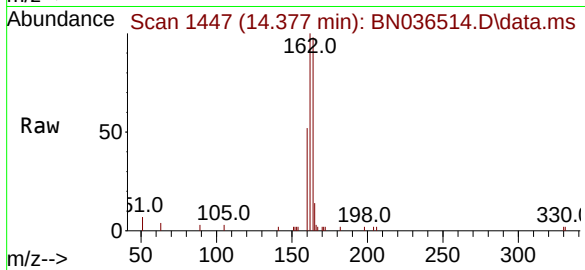
Tgt Ion:142 Resp: 4411
Ion Ratio Lower Upper
142 100
141 91.6 72.8 109.2
115 47.6 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

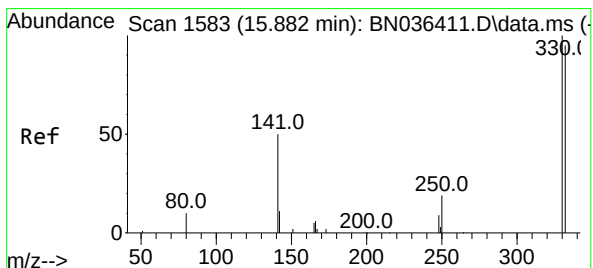
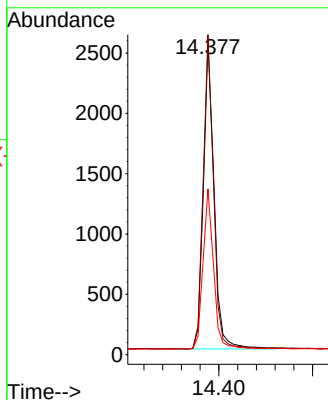
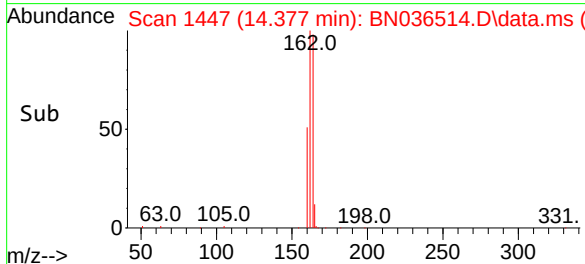
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



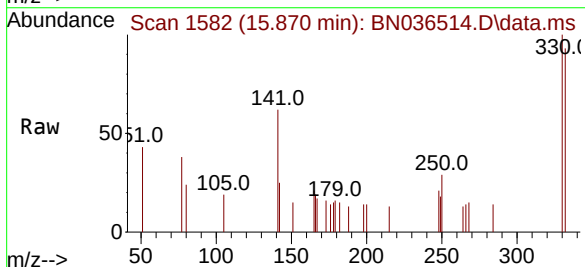
Tgt Ion:164 Resp: 4020
Ion Ratio Lower Upper
164 100
162 102.4 84.1 126.1
160 53.0 41.4 62.0

Manual Integrations
APPROVED

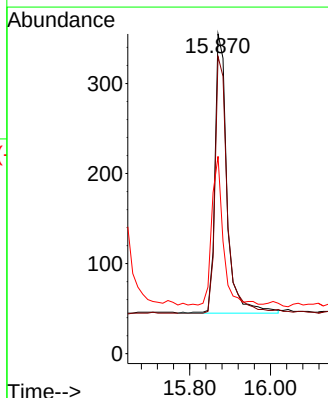
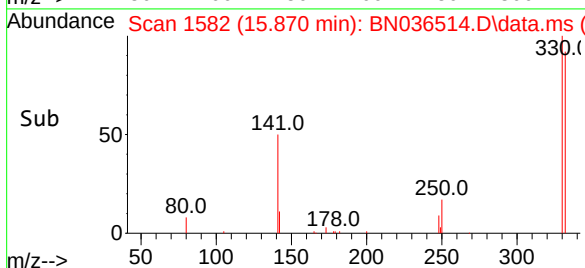
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

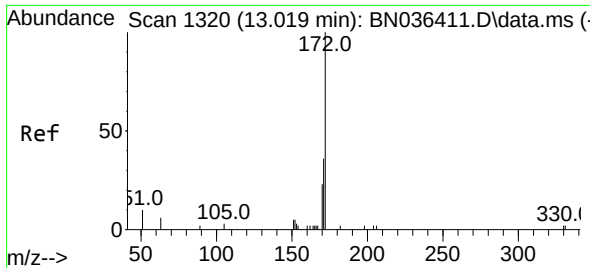


#14
2,4,6-Tribromophenol
Concen: 0.324 ng
RT: 15.870 min Scan# 1582
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20



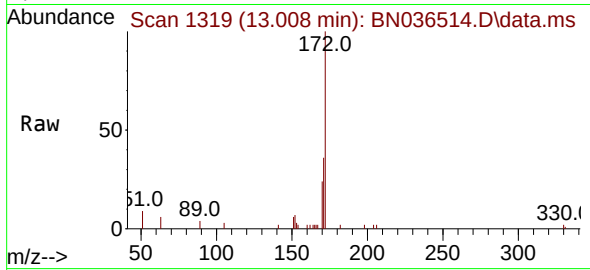
Tgt Ion:330 Resp: 646
Ion Ratio Lower Upper
330 100
332 92.9 76.6 114.8
141 50.3 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.443 ng
RT: 13.008 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

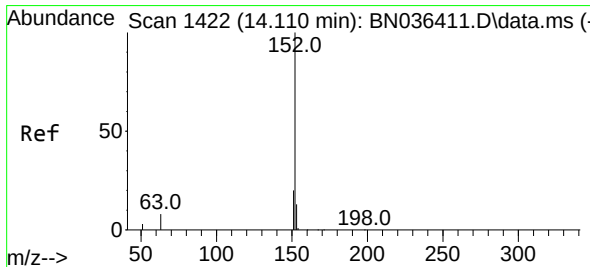
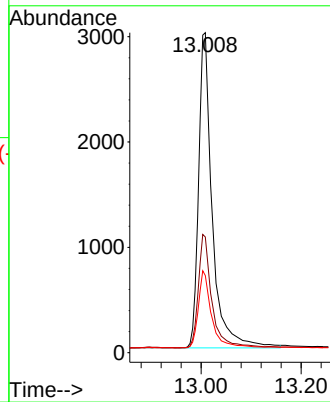
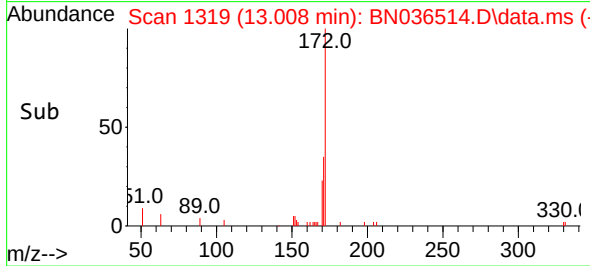
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:172 Resp: 6709
Ion Ratio Lower Upper
172 100
171 36.2 29.6 44.4
170 24.1 19.8 29.6

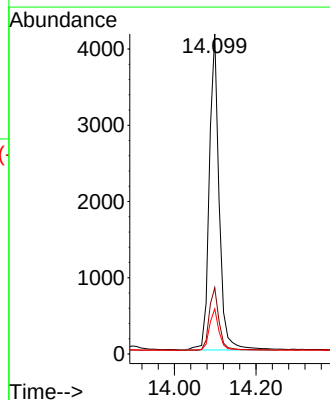
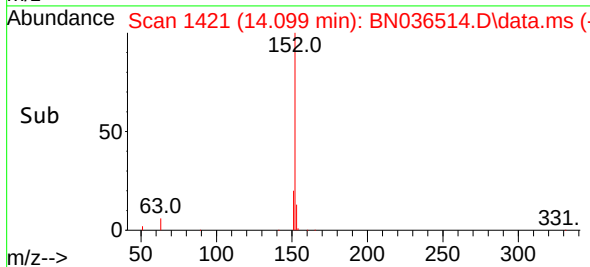
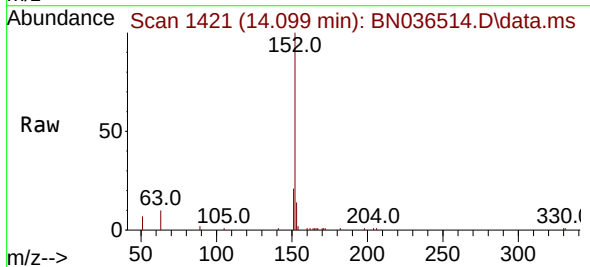
Manual Integrations
APPROVED

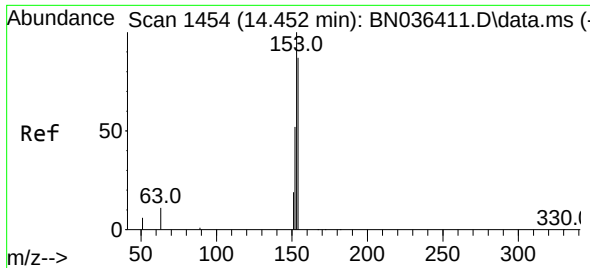
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#16
Acenaphthylene
Concen: 0.391 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

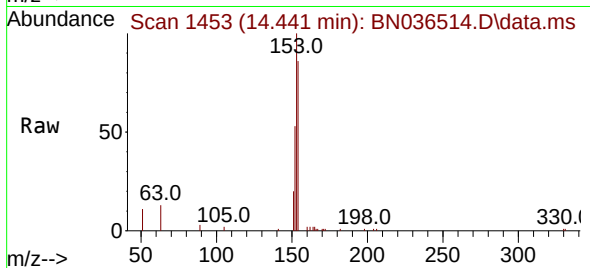
Tgt Ion:152 Resp: 6958
Ion Ratio Lower Upper
152 100
151 20.0 15.8 23.8
153 12.9 10.2 15.2





#17
Acenaphthene
Concen: 0.383 ng
RT: 14.441 min Scan# 1453
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

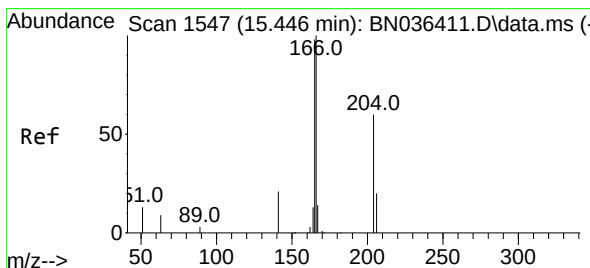
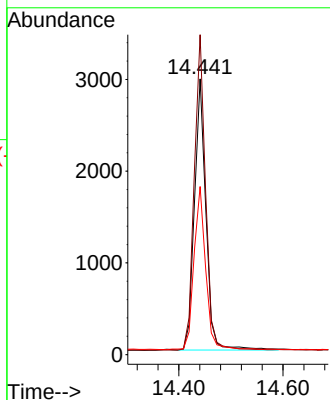
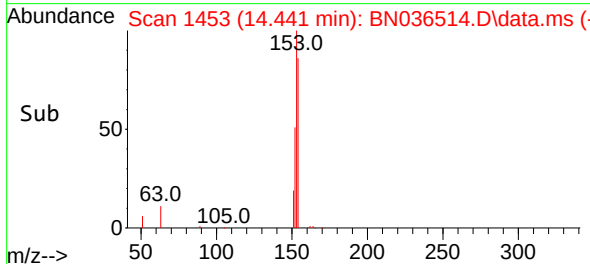
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:154 Resp: 455
Ion Ratio Lower Upper
154 100
153 114.4 93.3 139.9
152 61.2 48.8 73.2

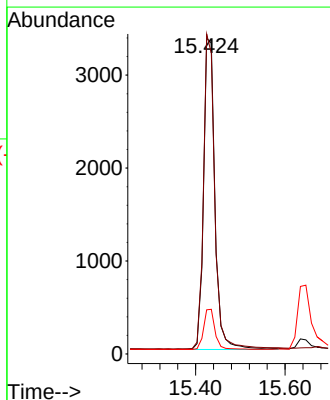
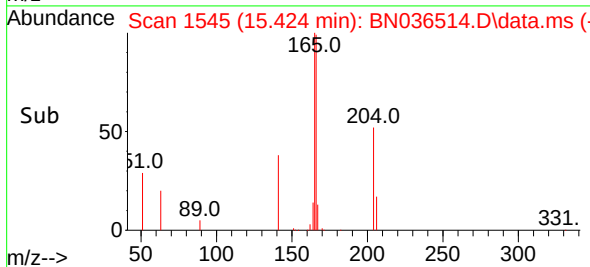
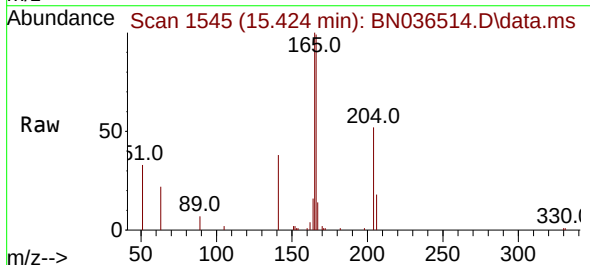
Manual Integrations
APPROVED

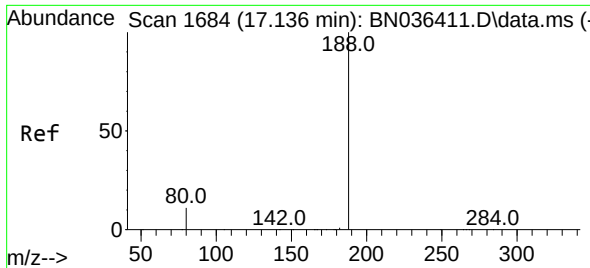
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#18
Fluorene
Concen: 0.369 ng
RT: 15.424 min Scan# 1545
Delta R.T. -0.022 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:166 Resp: 6233
Ion Ratio Lower Upper
166 100
165 98.8 79.5 119.3
167 12.7 10.4 15.6





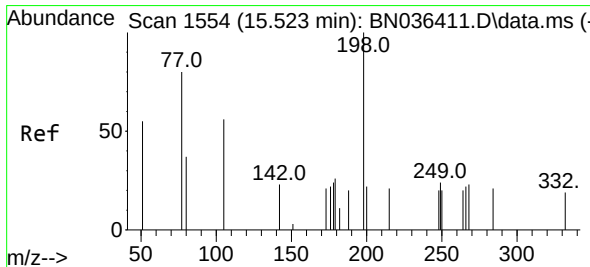
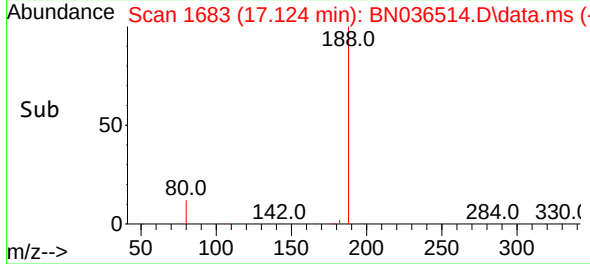
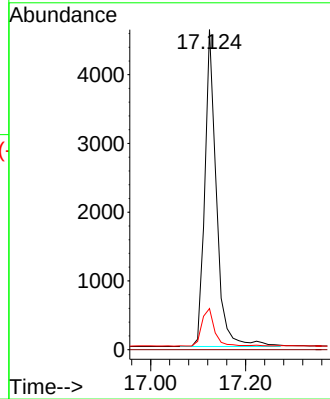
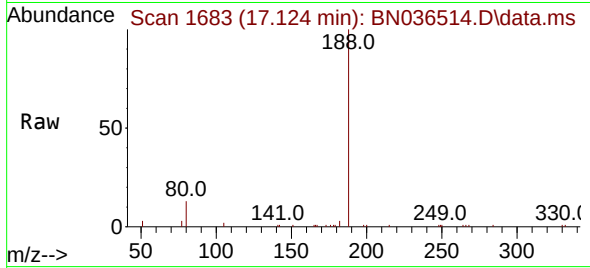
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:188 Resp: 787
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.8 9.8 14.6

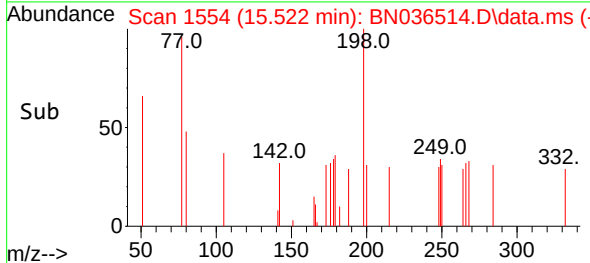
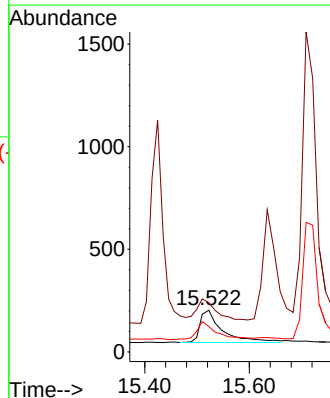
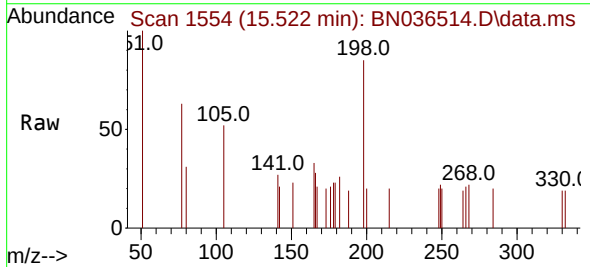
Manual Integrations
APPROVED

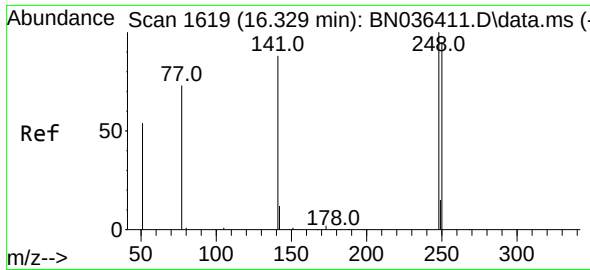
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.298 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.001 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:198 Resp: 460
Ion Ratio Lower Upper
198 100
51 118.2 86.6 129.8
105 61.1 57.5 86.3





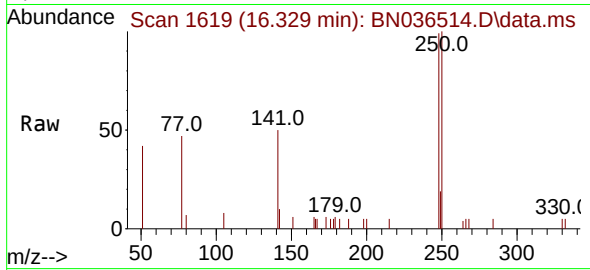
#21
4-Bromophenyl-phenylether
Concen: 0.407 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



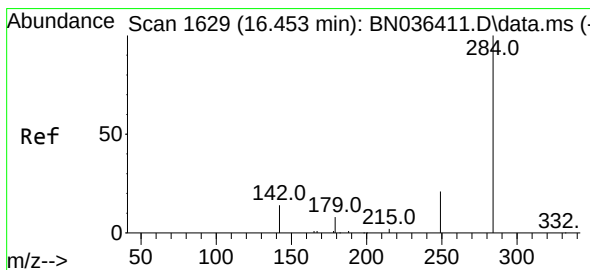
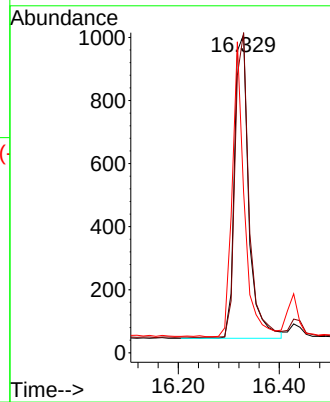
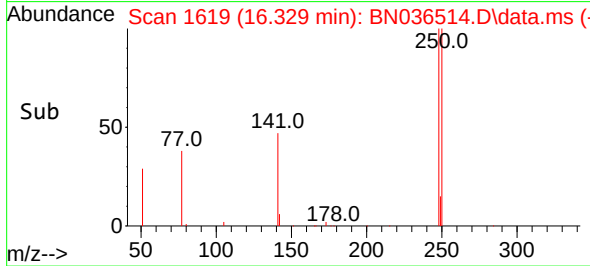
Tgt Ion:248 Resp: 1910
Ion Ratio Lower Upper
248 100
250 100.6 76.1 114.1
141 50.5 71.7 107.5

Manual Integrations

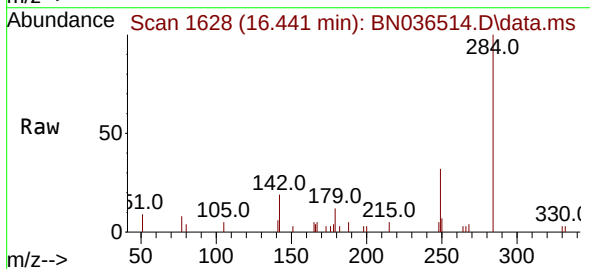
APPROVED

Reviewed By :Rahul Chavli 02/27/2025

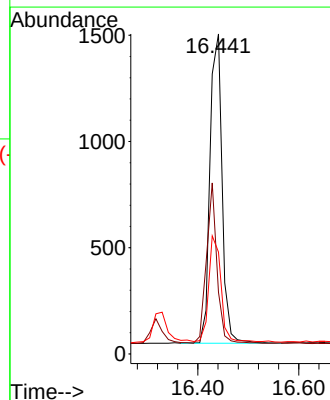
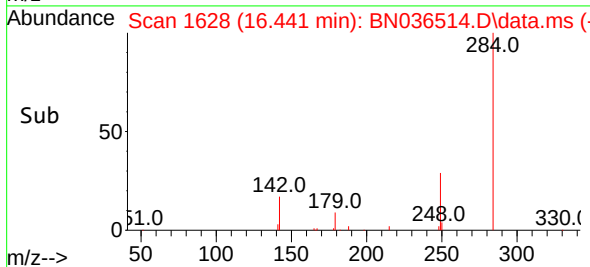
Supervised By :mohammad ahmed 02/28/2025

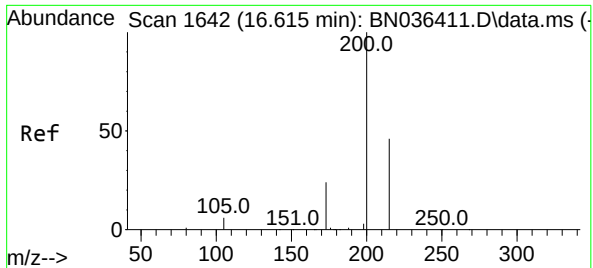


#22
Hexachlorobenzene
Concen: 0.418 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20



Tgt Ion:284 Resp: 2423
Ion Ratio Lower Upper
284 100
142 45.0 33.4 50.0
249 35.6 28.6 43.0





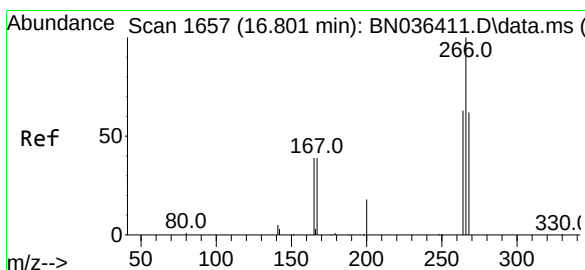
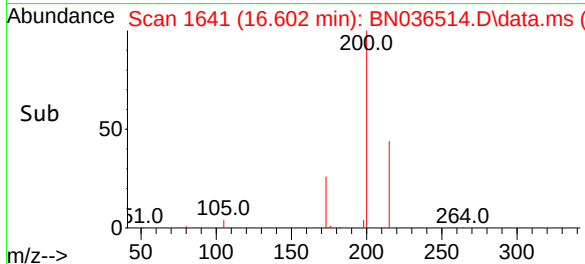
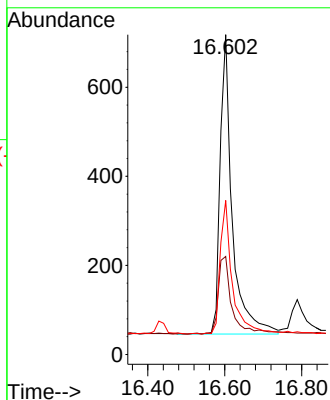
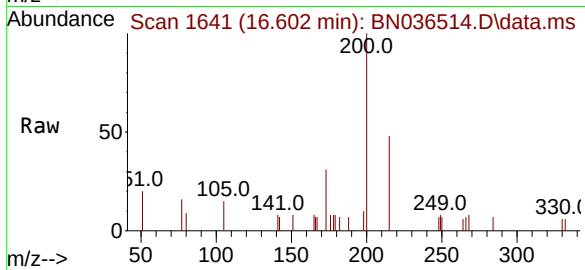
#23
Atrazine
Concen: 0.374 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:200 Resp: 1468
Ion Ratio Lower Upper
200 100
173 30.6 23.2 34.8
215 48.2 40.0 60.0

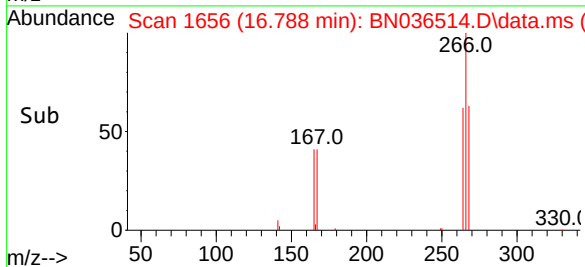
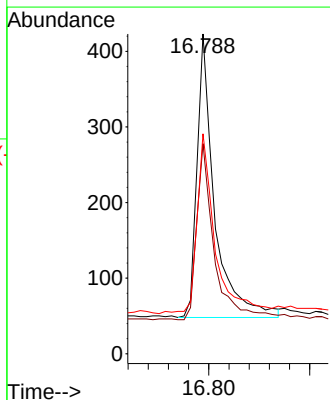
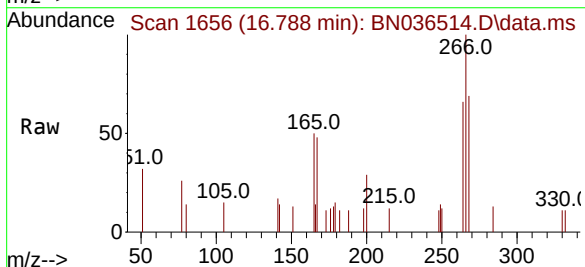
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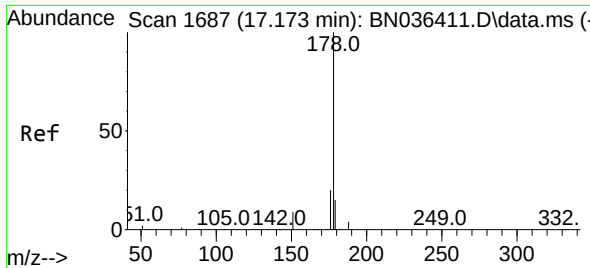
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#24
Pentachlorophenol
Concen: 0.329 ng
RT: 16.788 min Scan# 1656
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:266 Resp: 905
Ion Ratio Lower Upper
266 100
264 62.1 50.6 76.0
268 65.7 51.9 77.9





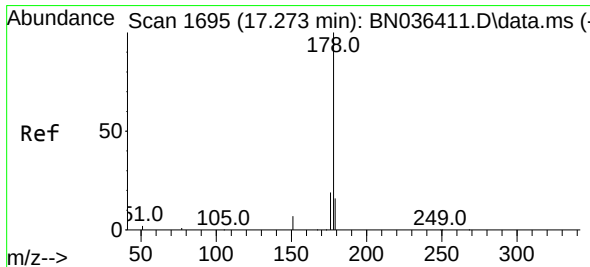
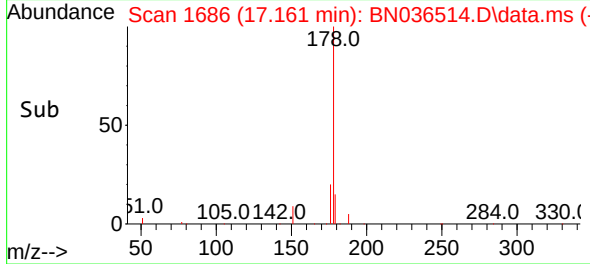
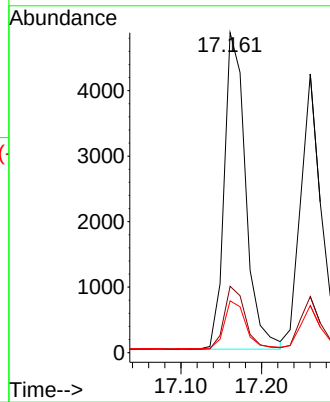
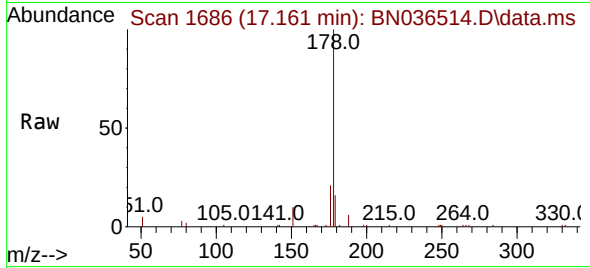
#25
Phenanthrene
Concen: 0.391 ng
RT: 17.161 min Scan# 1686
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 890
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.4 18.6

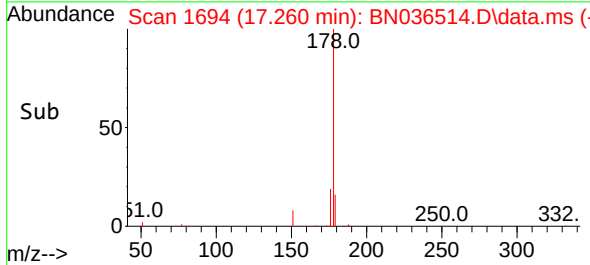
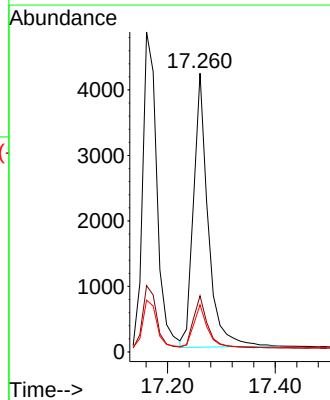
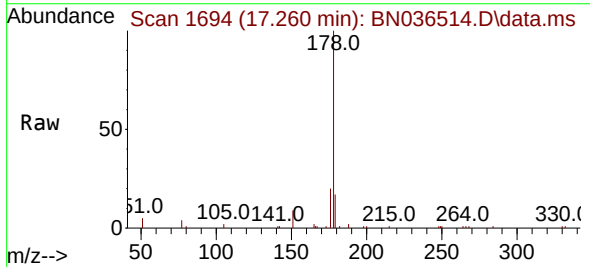
Manual Integrations
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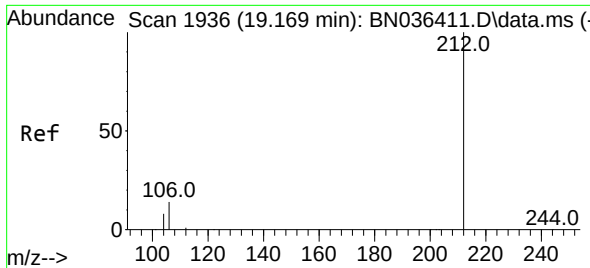
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#26
Anthracene
Concen: 0.392 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

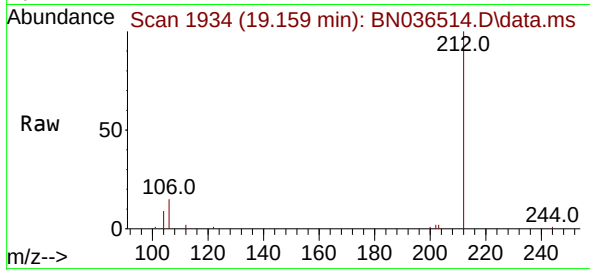
Tgt Ion:178 Resp: 7860
Ion Ratio Lower Upper
178 100
176 19.2 14.9 22.3
179 15.1 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 19.159 min Scan# 1934
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

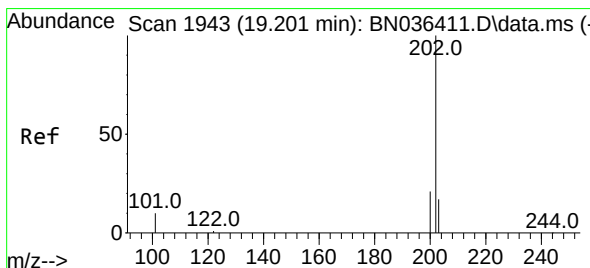
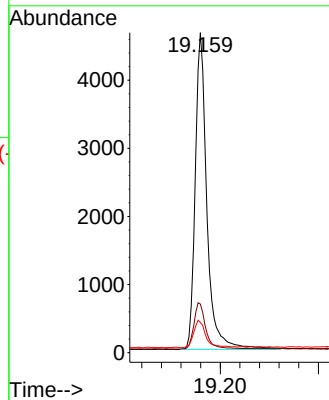
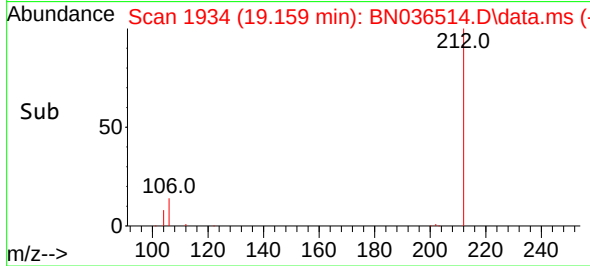
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



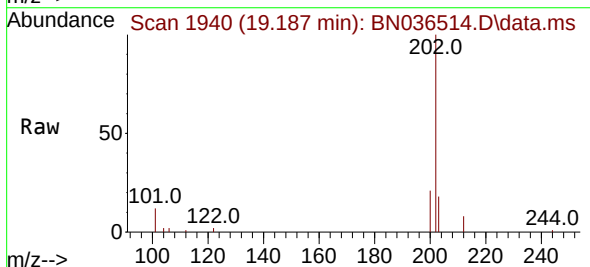
Tgt Ion:212 Resp: 766
Ion Ratio Lower Upper
212 100
106 14.8 11.5 17.3
104 8.9 7.1 10.7

Manual Integrations
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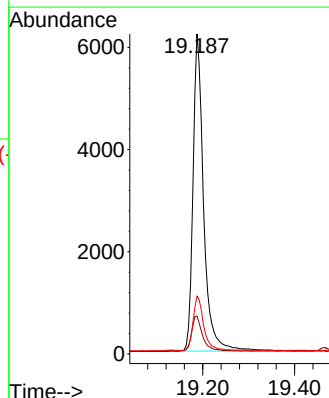
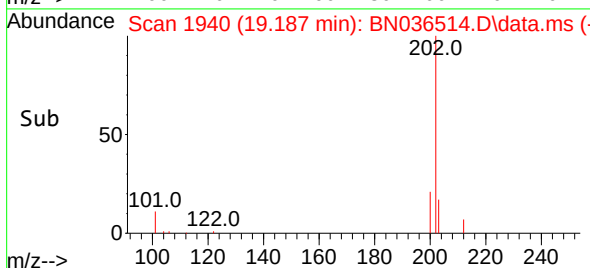
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

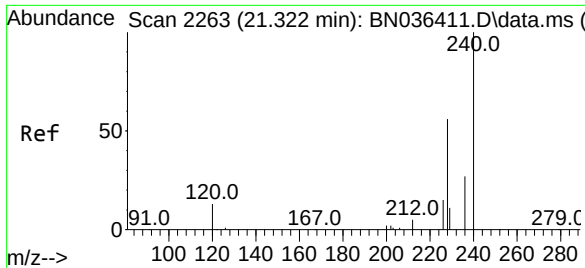


#28
Fluoranthene
Concen: 0.357 ng
RT: 19.187 min Scan# 1940
Delta R.T. -0.014 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20



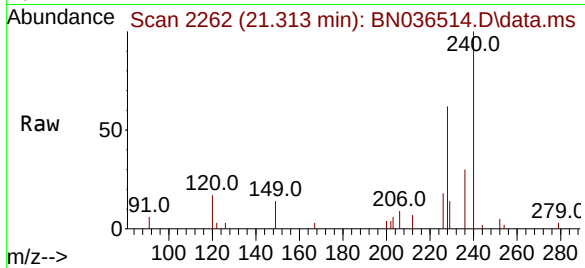
Tgt Ion:202 Resp: 9979
Ion Ratio Lower Upper
202 100
101 11.9 9.2 13.8
203 17.0 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

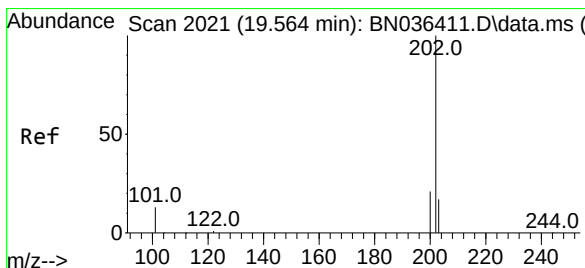
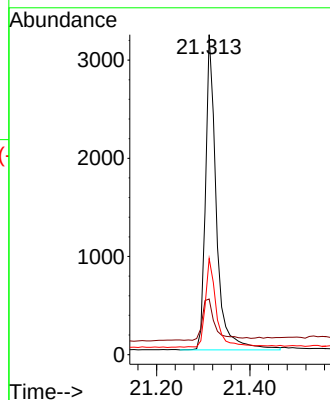
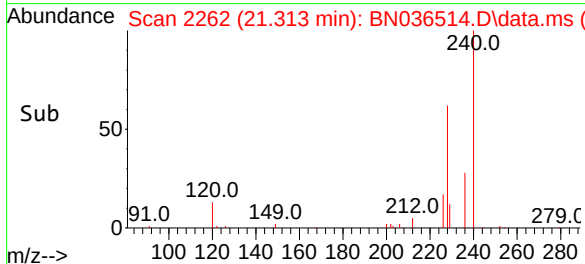
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



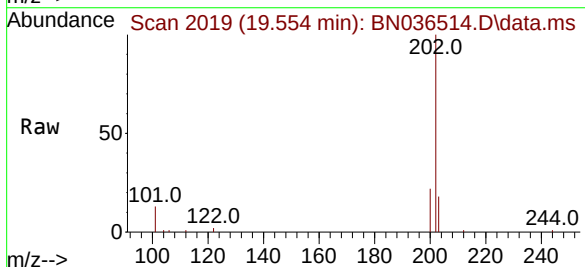
Tgt Ion:240 Resp: 5200
Ion Ratio Lower Upper
240 100
120 17.4 13.3 19.9
236 30.0 23.0 34.6

Manual Integrations
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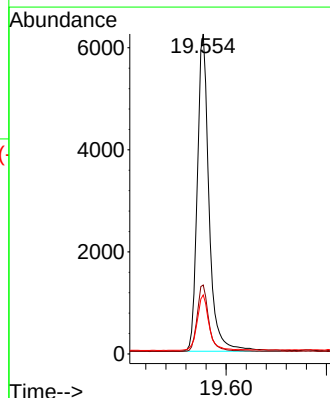
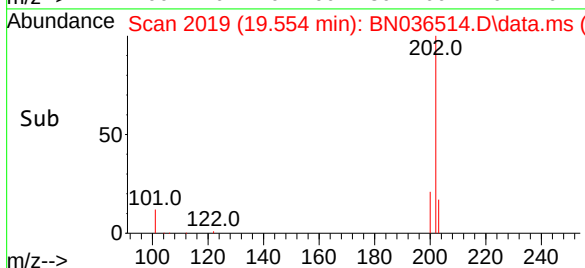
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

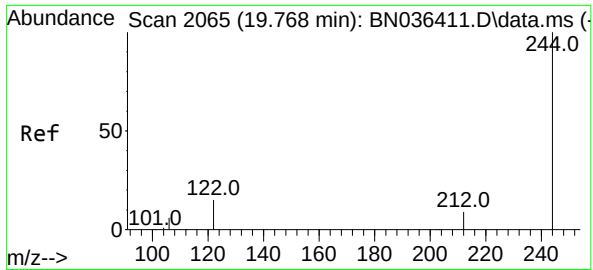


#30
Pyrene
Concen: 0.502 ng
RT: 19.554 min Scan# 2019
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20



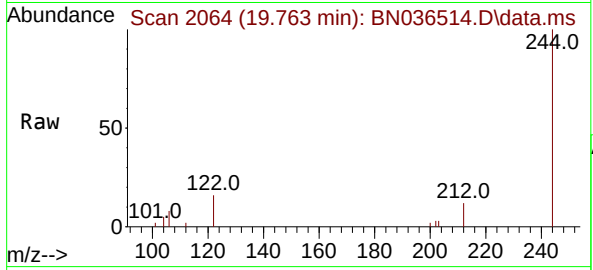
Tgt Ion:202 Resp: 10060
Ion Ratio Lower Upper
202 100
200 21.1 16.9 25.3
203 17.6 13.9 20.9





#31
Terphenyl-d14
Concen: 0.439 ng
RT: 19.763 min Scan# 2064
Delta R.T. -0.005 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

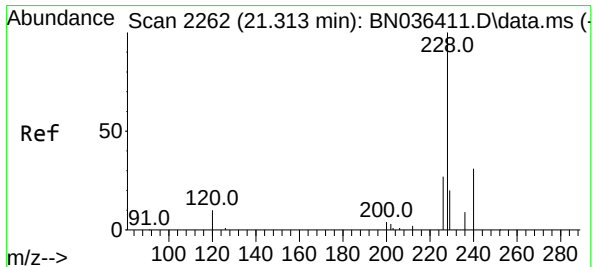
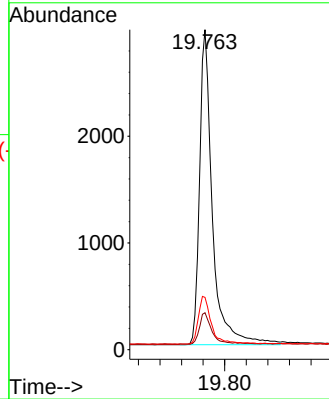
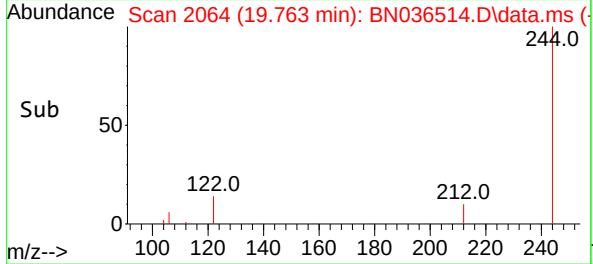
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:244 Resp: 487
Ion Ratio Lower Upper
244 100
212 11.5 8.1 12.1
122 16.3 12.8 19.2

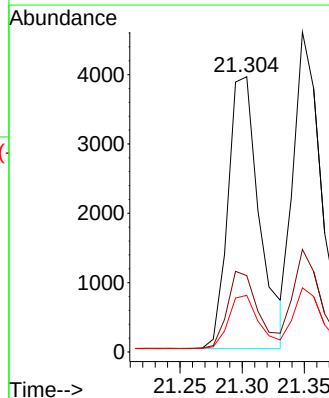
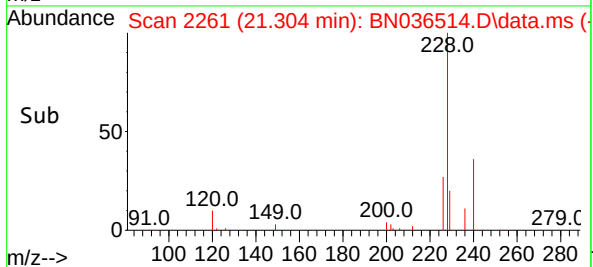
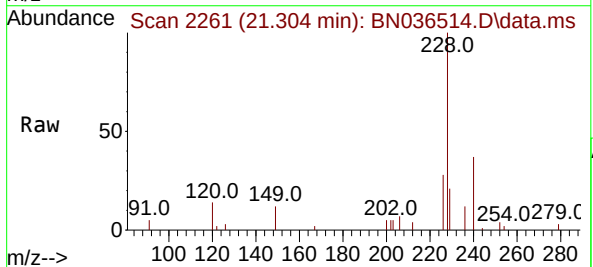
Manual Integrations
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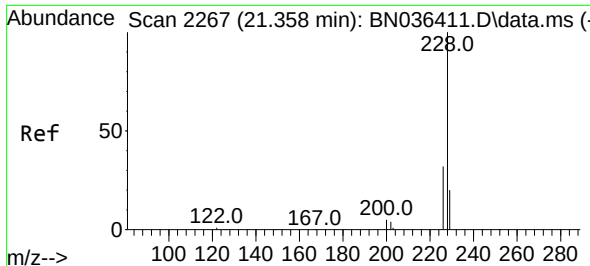
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#32
Benzo(a)anthracene
Concen: 0.403 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

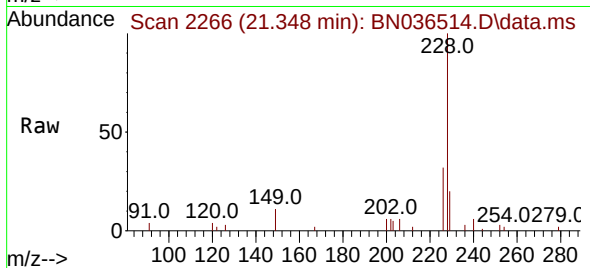
Tgt Ion:228 Resp: 6902
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.2
229 20.6 16.5 24.7





#33
Chrysene
Concen: 0.413 ng
RT: 21.348 min Scan# 21348
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

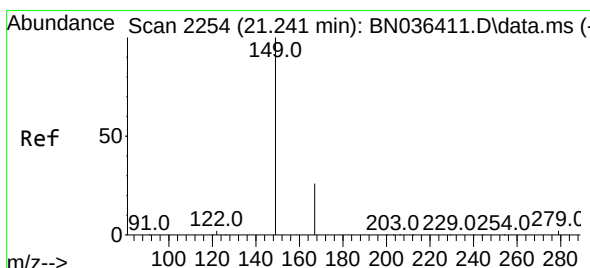
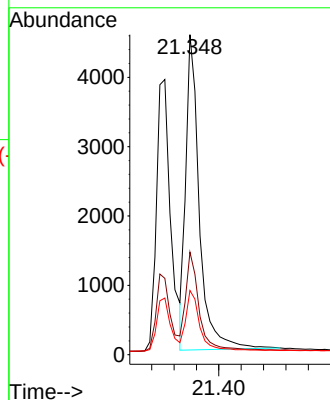
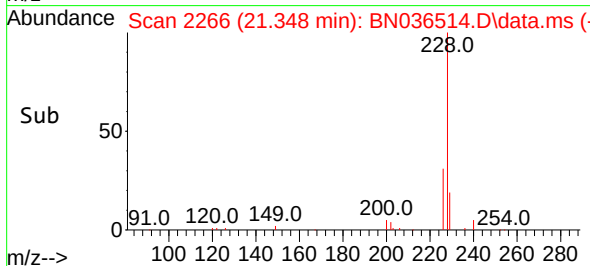
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:228 Resp: 7654
Ion Ratio Lower Upper
228 100
226 32.0 25.5 38.3
229 20.1 16.4 24.6

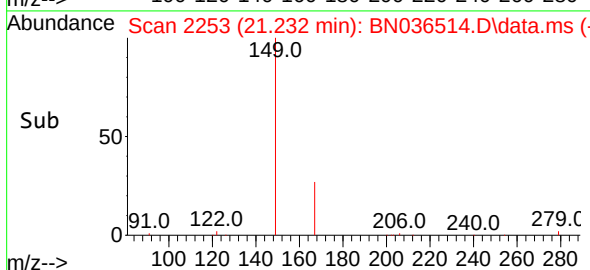
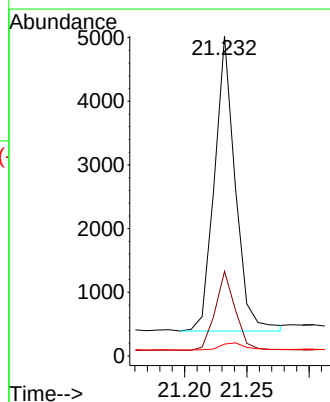
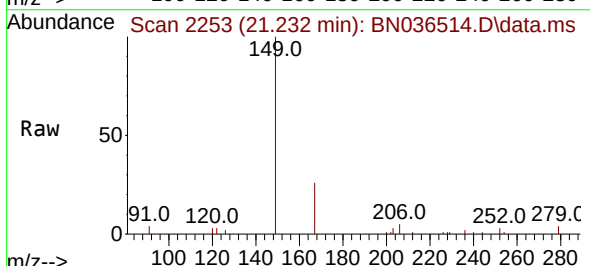
Manual Integrations
APPROVED

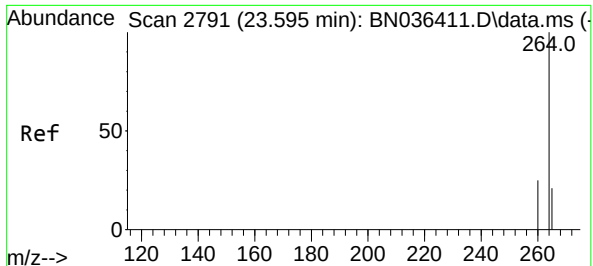
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.504 ng
RT: 21.232 min Scan# 2253
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

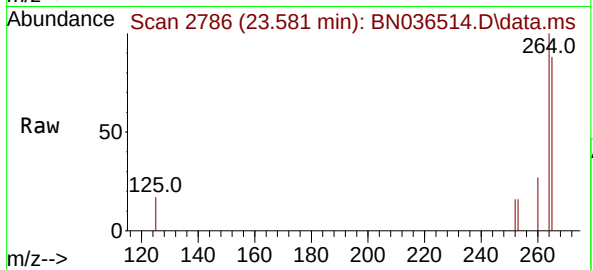
Tgt Ion:149 Resp: 5377
Ion Ratio Lower Upper
149 100
167 26.0 21.2 31.8
279 3.0 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.581 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

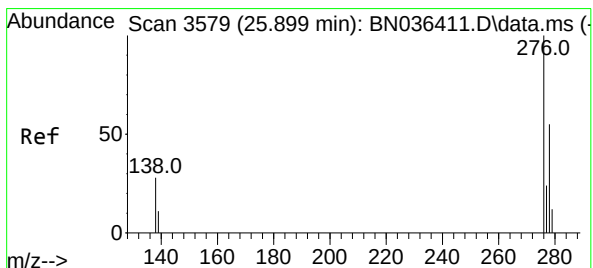
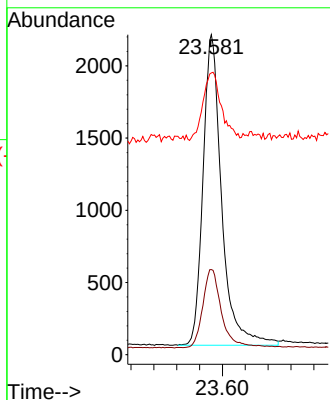
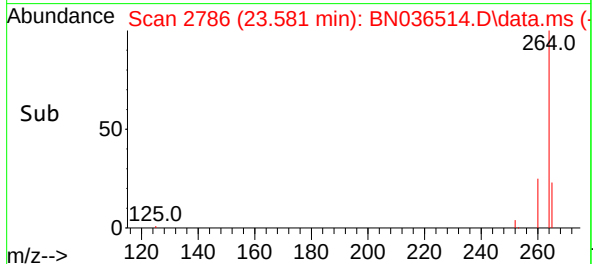
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:264 Resp: 487
Ion Ratio Lower Upper
264 100
260 26.6 20.9 31.3
265 88.0 60.7 91.1

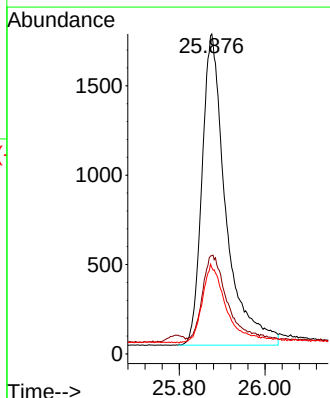
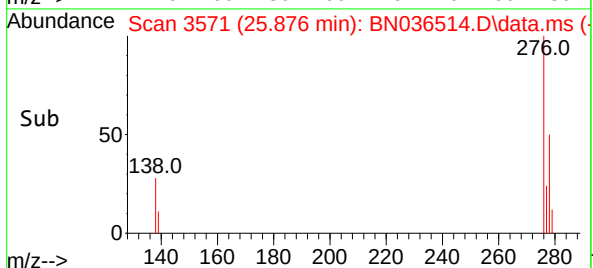
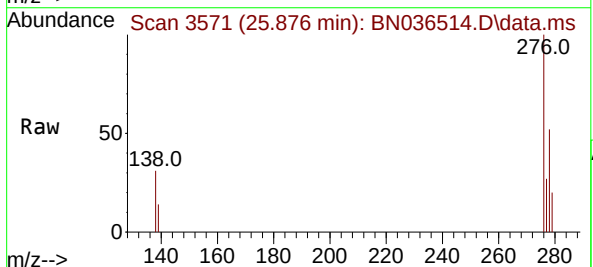
Manual Integrations
APPROVED

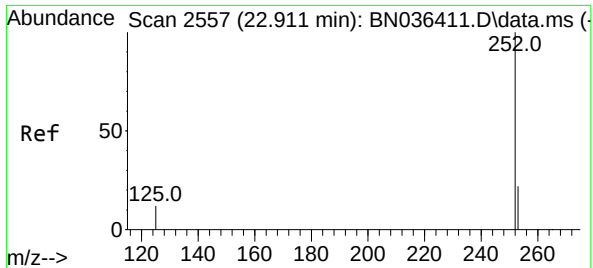
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.876 min Scan# 3571
Delta R.T. -0.024 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:276 Resp: 6718
Ion Ratio Lower Upper
276 100
138 27.1 22.2 33.2
277 24.5 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.429 ng m

RT: 22.896 min Scan# 2552

Delta R.T. -0.015 min

Lab File: BN036514.D

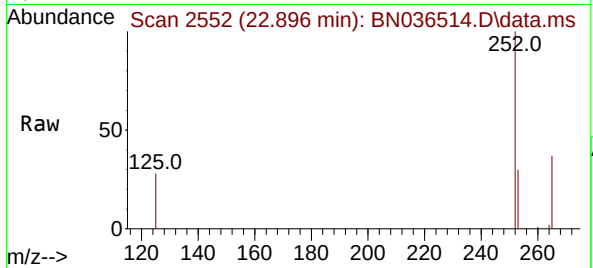
Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:252 Resp: 6880

Ion Ratio Lower Upper

252 100

253 30.0 21.9 32.9

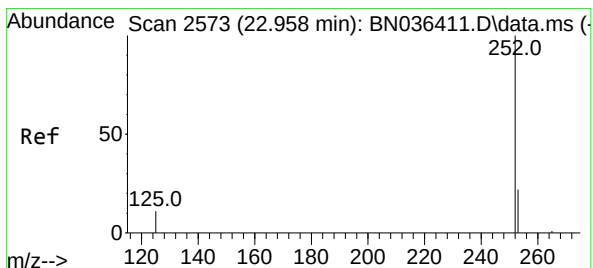
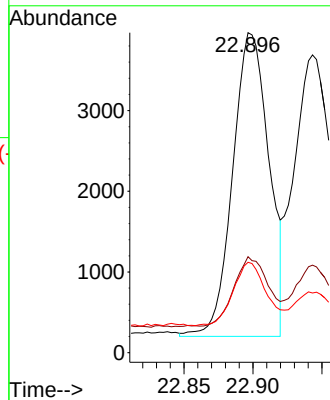
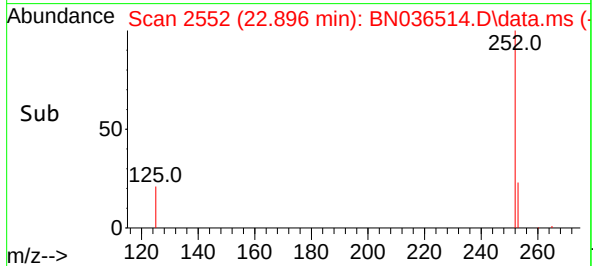
125 28.3 15.0 22.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#38

Benzo(k)fluoranthene

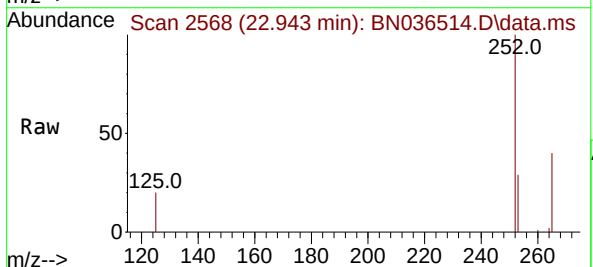
Concen: 0.430 ng

RT: 22.943 min Scan# 2568

Delta R.T. -0.015 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20



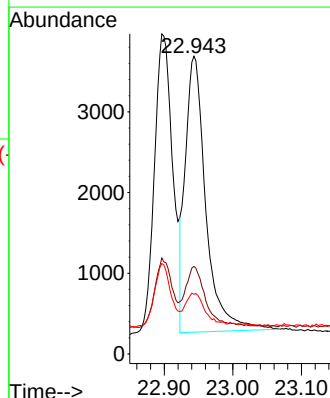
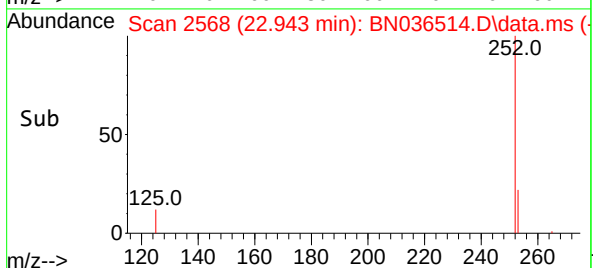
Tgt Ion:252 Resp: 7096

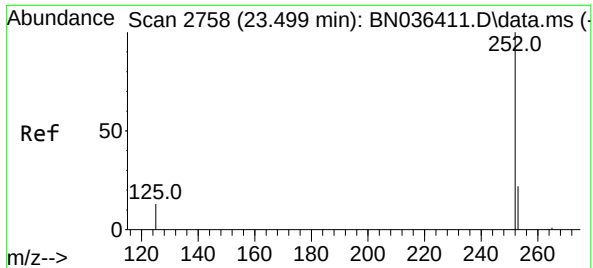
Ion Ratio Lower Upper

252 100

253 29.4 22.2 33.4

125 20.1 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.423 ng

RT: 23.481 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

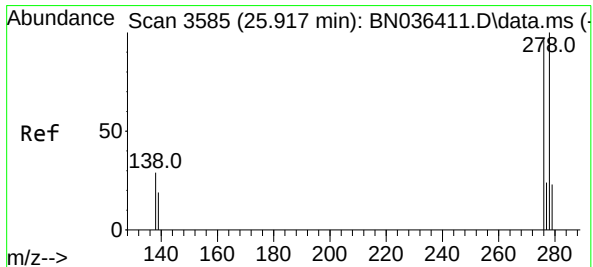
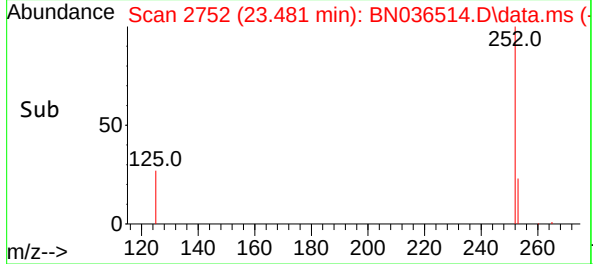
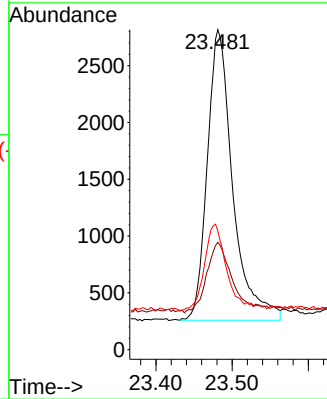
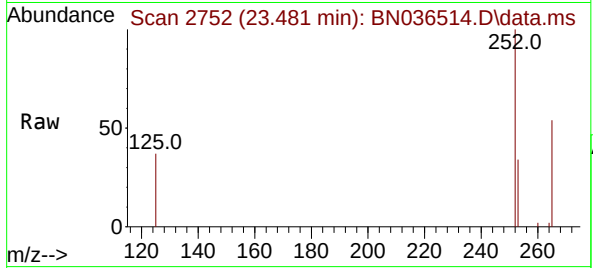
Tgt Ion:252	Resp:	5929
Ion Ratio	Lower	Upper
252	100	
253	33.5	24.4 36.6
125	37.1	18.2 27.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

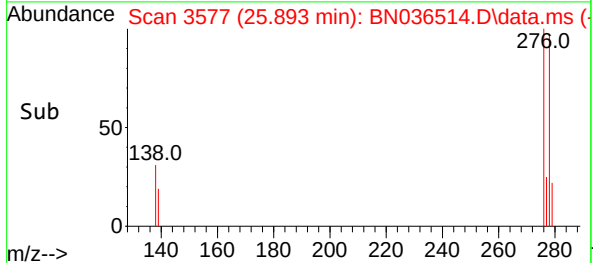
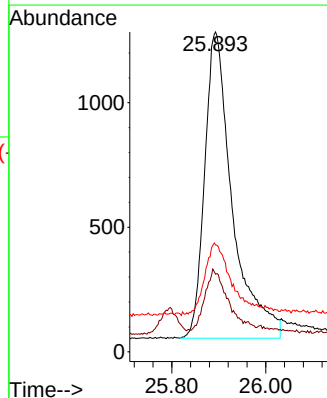
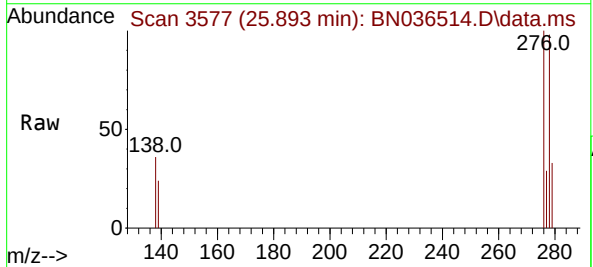
RT: 25.893 min Scan# 3577

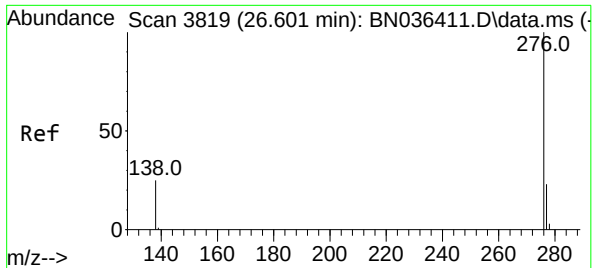
Delta R.T. -0.024 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

Tgt Ion:278	Resp:	5024
Ion Ratio	Lower	Upper
278	100	
139	24.3	18.5 27.7
279	33.4	24.8 37.2





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.574 min Scan# 3810

Delta R.T. -0.026 min

Lab File: BN036514.D

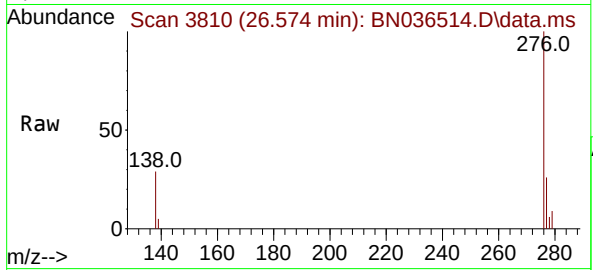
Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:276 Resp: 6064

Ion Ratio Lower Upper

276 100

277 26.4 20.7 31.1

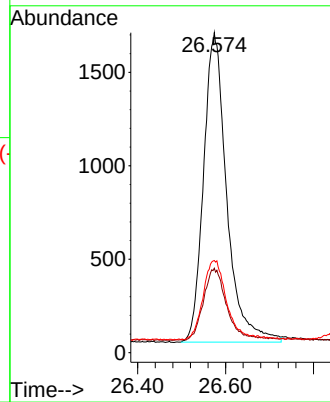
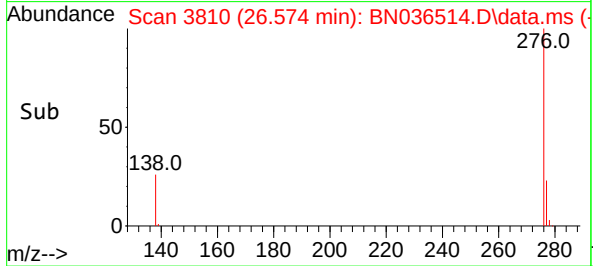
138 28.8 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036514.D
 Acq On : 26 Feb 2025 17:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Feb 26 17:47:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	109	-0.01
2	1,4-Dioxane	0.438	0.440	-0.5	111	0.00
3	n-Nitrosodimethylamine	0.760	0.814	-7.1	116	0.00
4 S	2-Fluorophenol	0.945	0.869	8.0	101	-0.01
5 S	Phenol-d6	1.109	0.989	10.8	104	-0.02
6	bis(2-Chloroethyl)ether	1.160	1.156	0.3	116	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	107	-0.01
8 S	Nitrobenzene-d5	0.395	0.396	-0.3	116	-0.01
9	Naphthalene	1.154	1.132	1.9	108	-0.01
10	Hexachlorobutadiene	0.281	0.281	0.0	106	-0.01
11 SURR	2-Methylnaphthalene-d10	0.615	0.591	3.9	105	-0.02
12	2-Methylnaphthalene	0.757	0.746	1.5	108	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	112	-0.01
14 S	2,4,6-Tribromophenol	0.198	0.160	19.2	96	-0.01
15 S	2-Fluorobiphenyl	1.504	1.666	-10.8	135	-0.01
16	Acenaphthylene	1.767	1.728	2.2	114	-0.01
17	Acenaphthene	1.180	1.130	4.2	110	-0.01
18	Fluorene	1.680	1.548	7.9	104	-0.02
19 I	Phenanthrene-d10	1.000	1.000	0.0	95	-0.01
20	4,6-Dinitro-2-methylphenol	0.078	0.058	25.6#	80	0.00
21	4-Bromophenyl-phenylether	0.239	0.243	-1.7	99	0.00
22	Hexachlorobenzene	0.295	0.308	-4.4	102	-0.01
23	Atrazine	0.199	0.186	6.5	94	-0.01
24	Pentachlorophenol	0.140	0.115	17.9	89	-0.01
25	Phenanthrene	1.156	1.131	2.2	98	-0.01
26	Anthracene	1.020	0.998	2.2	98	-0.01
27 SURR	Fluoranthene-d10	1.112	0.974	12.4	87	0.00
28	Fluoranthene	1.421	1.268	10.8	89	-0.01
29 I	Chrysene-d12	1.000	1.000	0.0	69	0.00
30	Pyrene	1.541	1.935	-25.6#	88	0.00
31 S	Terphenyl-d14	0.854	0.937	-9.7	76	0.00
32	Benzo(a)anthracene	1.316	1.327	-0.8	71	0.00
33	Chrysene	1.425	1.472	-3.3	75	0.00
34	Bis(2-ethylhexyl)phthalate	0.820	1.034	-26.1#	92	0.00
35 I	Perylene-d12	1.000	1.000	0.0	63	-0.01
36	Indeno(1,2,3-cd)pyrene	1.398	1.379	1.4	63	-0.02
37	Benzo(b)fluoranthene	1.317	1.413	-7.3	71	-0.01
38	Benzo(k)fluoranthene	1.356	1.456	-7.4	67	-0.01
39 C	Benzo(a)pyrene	1.150	1.217	-5.8	70	-0.02
40	Dibenzo(a,h)anthracene	1.103	1.031	6.5	60	-0.02
41	Benzo(g,h,i)perylene	1.250	1.244	0.5	63	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036514.D
 Acq On : 26 Feb 2025 17:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Feb 26 17:47:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 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	109	-0.01
2	1,4-Dioxane	0.400	0.402	-0.5	111	0.00
3	n-Nitrosodimethylamine	0.400	0.428	-7.0	116	0.00
4 S	2-Fluorophenol	0.400	0.368	8.0	101	-0.01
5 S	Phenol-d6	0.400	0.357	10.8	104	-0.02
6	bis(2-Chloroethyl)ether	0.400	0.399	0.3	116	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	107	-0.01
8 S	Nitrobenzene-d5	0.400	0.401	-0.3	116	-0.01
9	Naphthalene	0.400	0.392	2.0	108	-0.01
10	Hexachlorobutadiene	0.400	0.401	-0.3	106	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.384	4.0	105	-0.02
12	2-Methylnaphthalene	0.400	0.394	1.5	108	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	112	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.324	19.0	96	-0.01
15 S	2-Fluorobiphenyl	0.400	0.443	-10.7	135	-0.01
16	Acenaphthylene	0.400	0.391	2.3	114	-0.01
17	Acenaphthene	0.400	0.383	4.3	110	-0.01
18	Fluorene	0.400	0.369	7.8	104	-0.02
19 I	Phenanthrene-d10	0.400	0.400	0.0	95	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.298	25.5#	80	0.00
21	4-Bromophenyl-phenylether	0.400	0.407	-1.7	99	0.00
22	Hexachlorobenzene	0.400	0.418	-4.5	102	-0.01
23	Atrazine	0.400	0.374	6.5	94	-0.01
24	Pentachlorophenol	0.400	0.329	17.8	89	-0.01
25	Phenanthrene	0.400	0.391	2.3	98	-0.01
26	Anthracene	0.400	0.392	2.0	98	-0.01
27 SURR	Fluoranthene-d10	0.400	0.350	12.5	87	0.00
28	Fluoranthene	0.400	0.357	10.8	89	-0.01
29 I	Chrysene-d12	0.400	0.400	0.0	69	0.00
30	Pyrene	0.400	0.502	-25.5#	88	0.00
31 S	Terphenyl-d14	0.400	0.439	-9.7	76	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	71	0.00
33	Chrysene	0.400	0.413	-3.2	75	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.504	-26.0#	92	0.00
35 I	Perylene-d12	0.400	0.400	0.0	63	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.394	1.5	63	-0.02
37	Benzo(b)fluoranthene	0.400	0.429	-7.2	71	-0.01
38	Benzo(k)fluoranthene	0.400	0.430	-7.5	67	-0.01
39 C	Benzo(a)pyrene	0.400	0.423	-5.7	70	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.374	6.5	60	-0.02
41	Benzo(g,h,i)perylene	0.400	0.398	0.5	63	-0.03

(#) = Out of Range

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



QC SAMPLE DATA

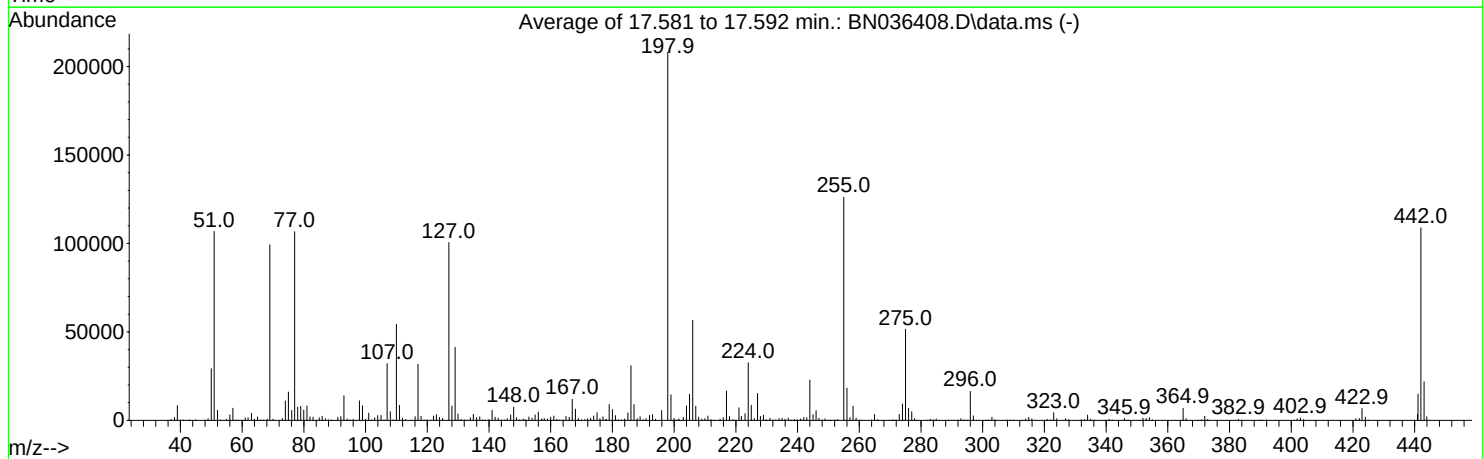
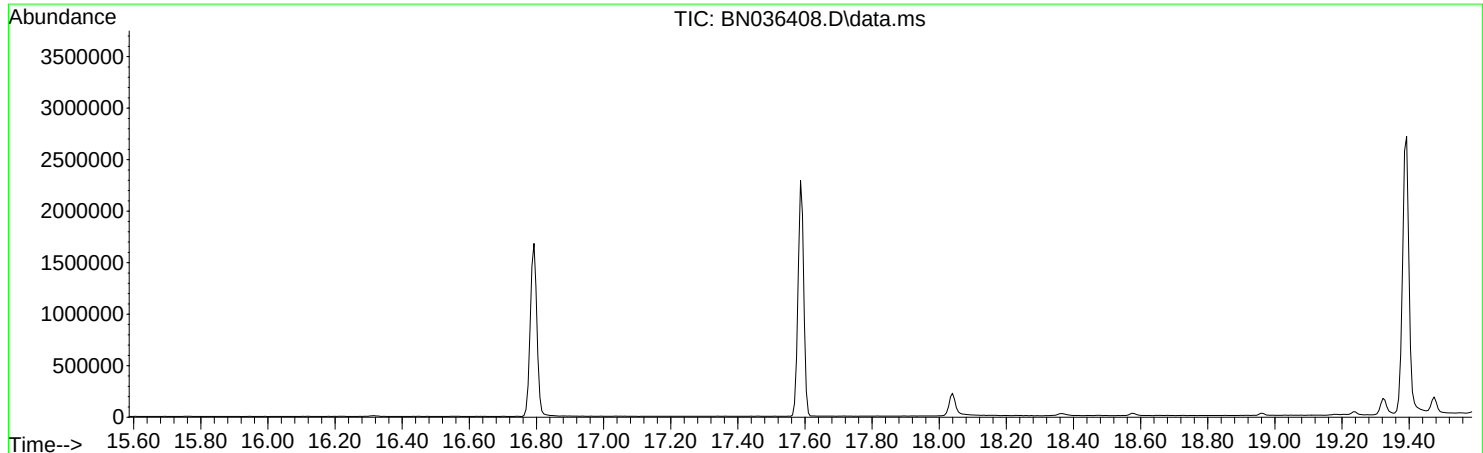
- 1
- 2
- 3
- 4
- 5
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- 7
- 8
- 9
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- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 11 01:17:14 2025



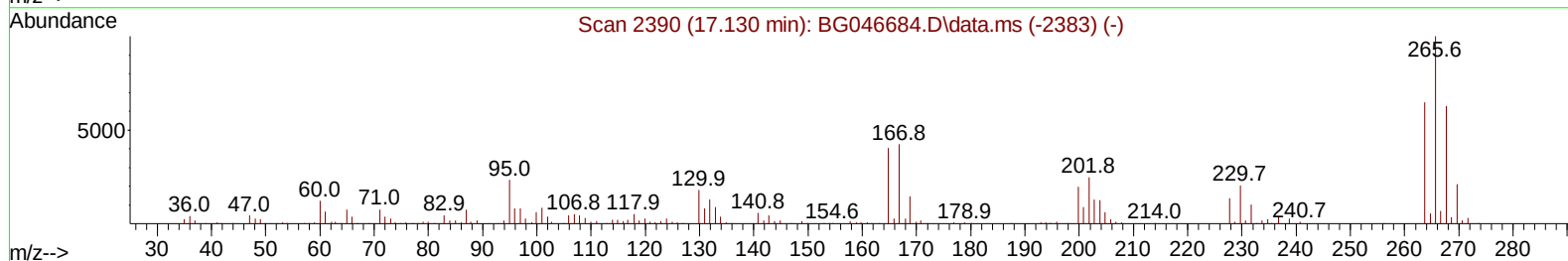
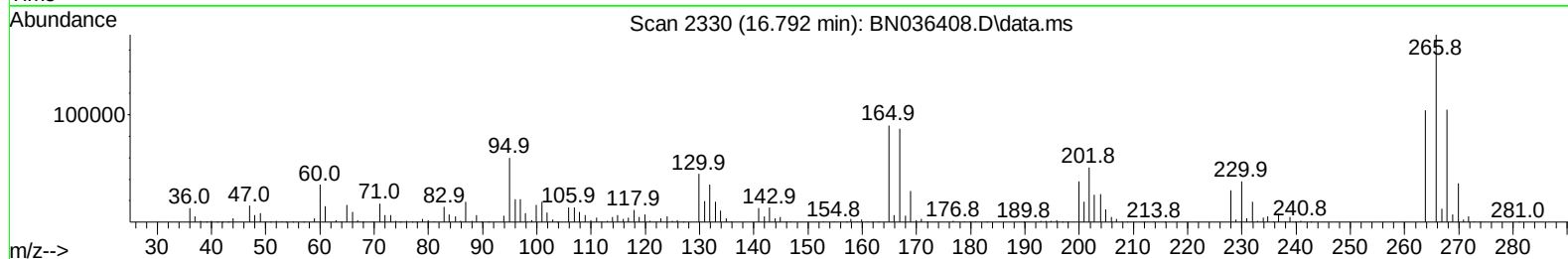
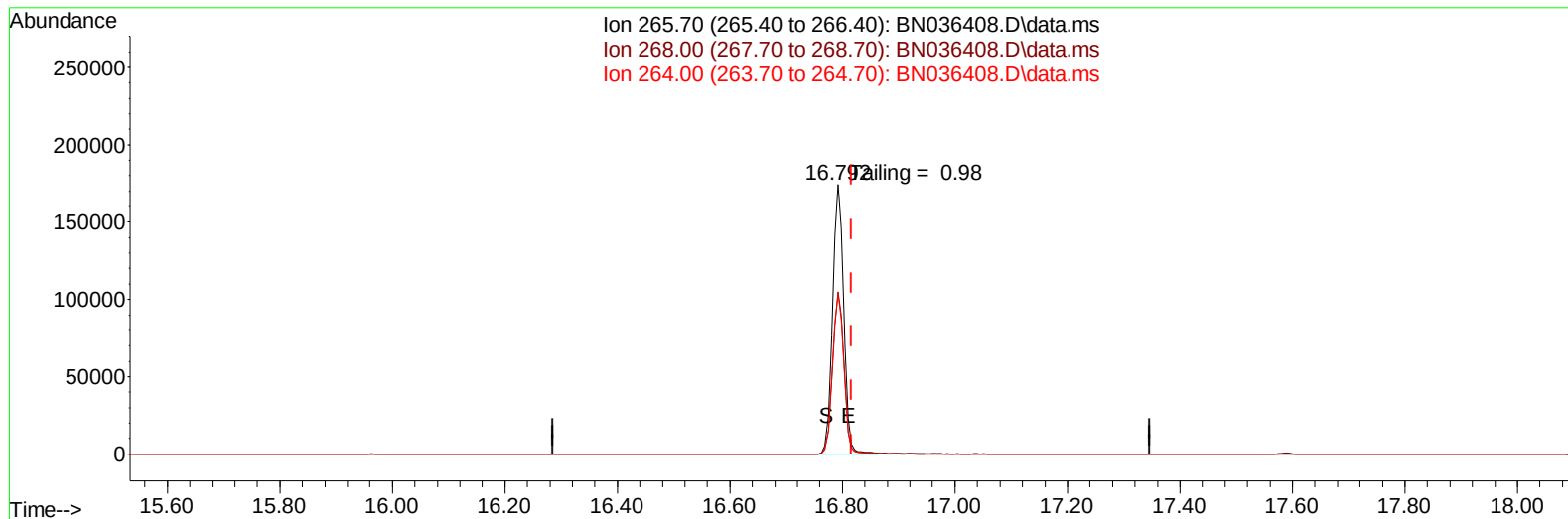
AutoFind: Scans 2464, 2465, 2466; Background Corrected with Scan 2458

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	51.4	106809	PASS
68	69	0.00	2	0.7	724	PASS
69	198	0.00	100	47.7	99211	PASS
70	69	0.00	2	0.6	601	PASS
127	198	10	80	48.3	100501	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	207936	PASS
199	198	5	9	7.0	14493	PASS
275	198	10	60	24.7	51437	PASS
365	198	1	100	3.3	6829	PASS
441	198	0.01	100	7.1	14816	PASS
442	442	50	100	100.0	108824	PASS
443	442	15	24	20.1	21911	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 11 01:55:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036408.D\data.ms

(70) Pentachlorophenol (C)

16.792min (-0.024) 22697.76 ng

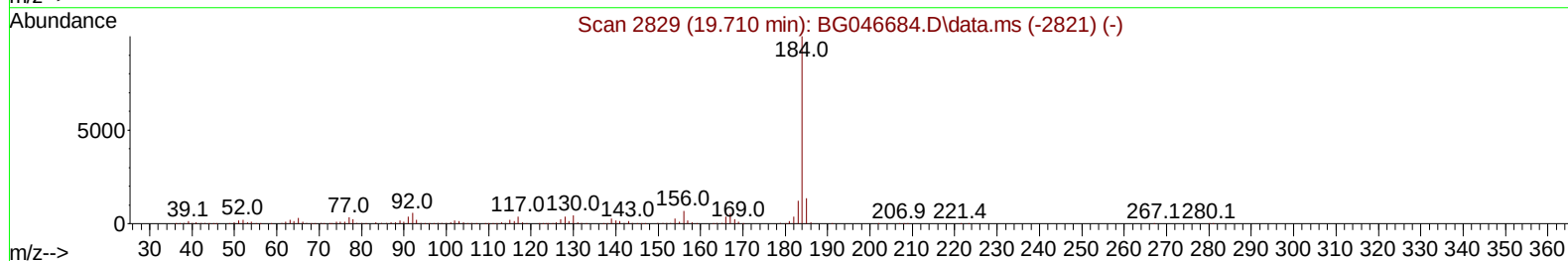
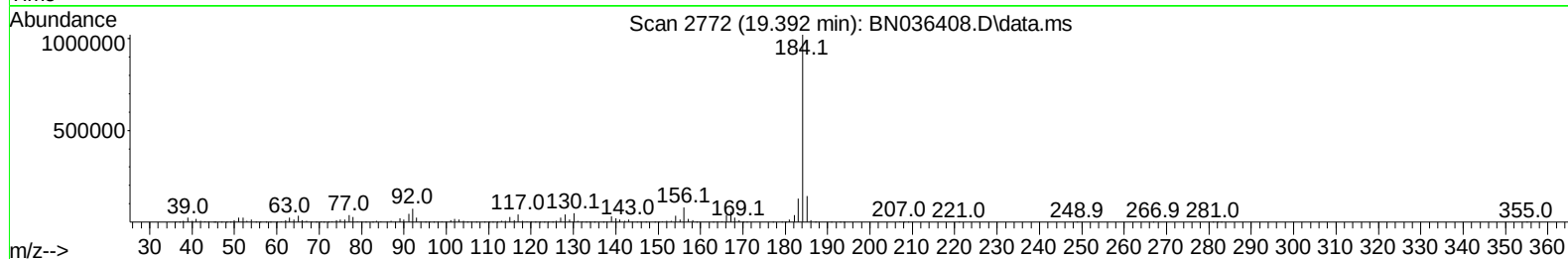
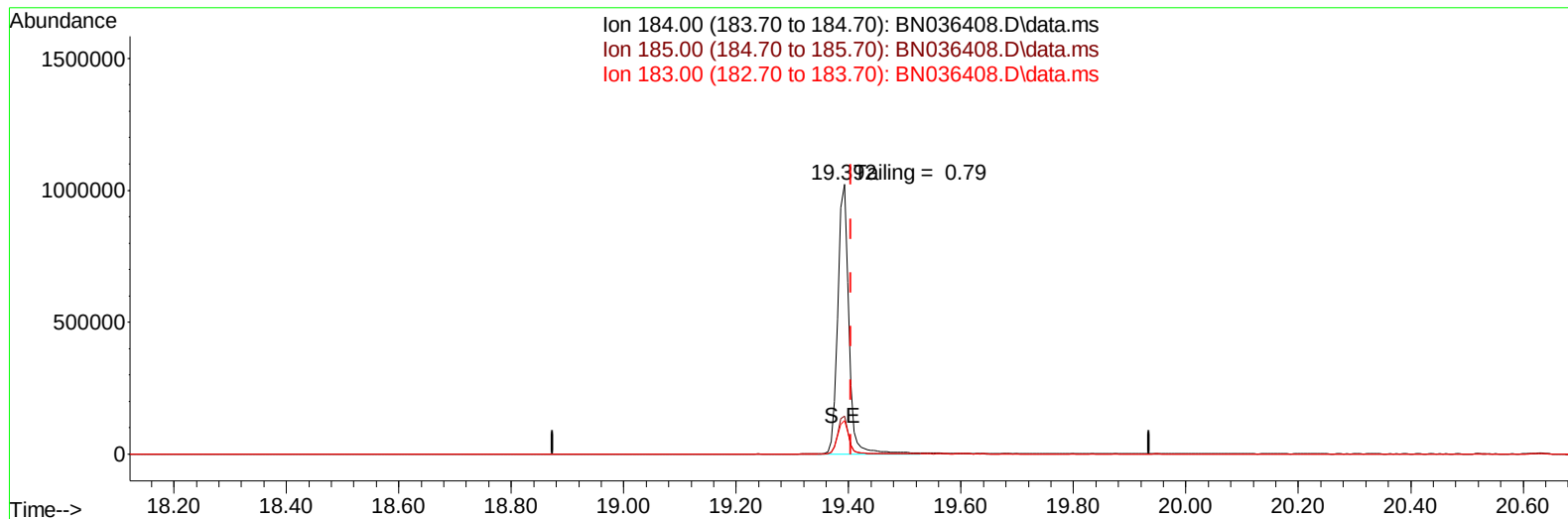
response 239758

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.20
264.00	61.60	59.58
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN021025\
Data File : BN036408.D
Acq On : 10 Feb 2025 11:46
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 11 01:55:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036408.D\data.ms

(77) Benzidine

19.392min (-0.012) 0.00 ng

response 1390167

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.06
183.00	13.20	12.43
0.00	0.00	0.00

DDT Breakdown

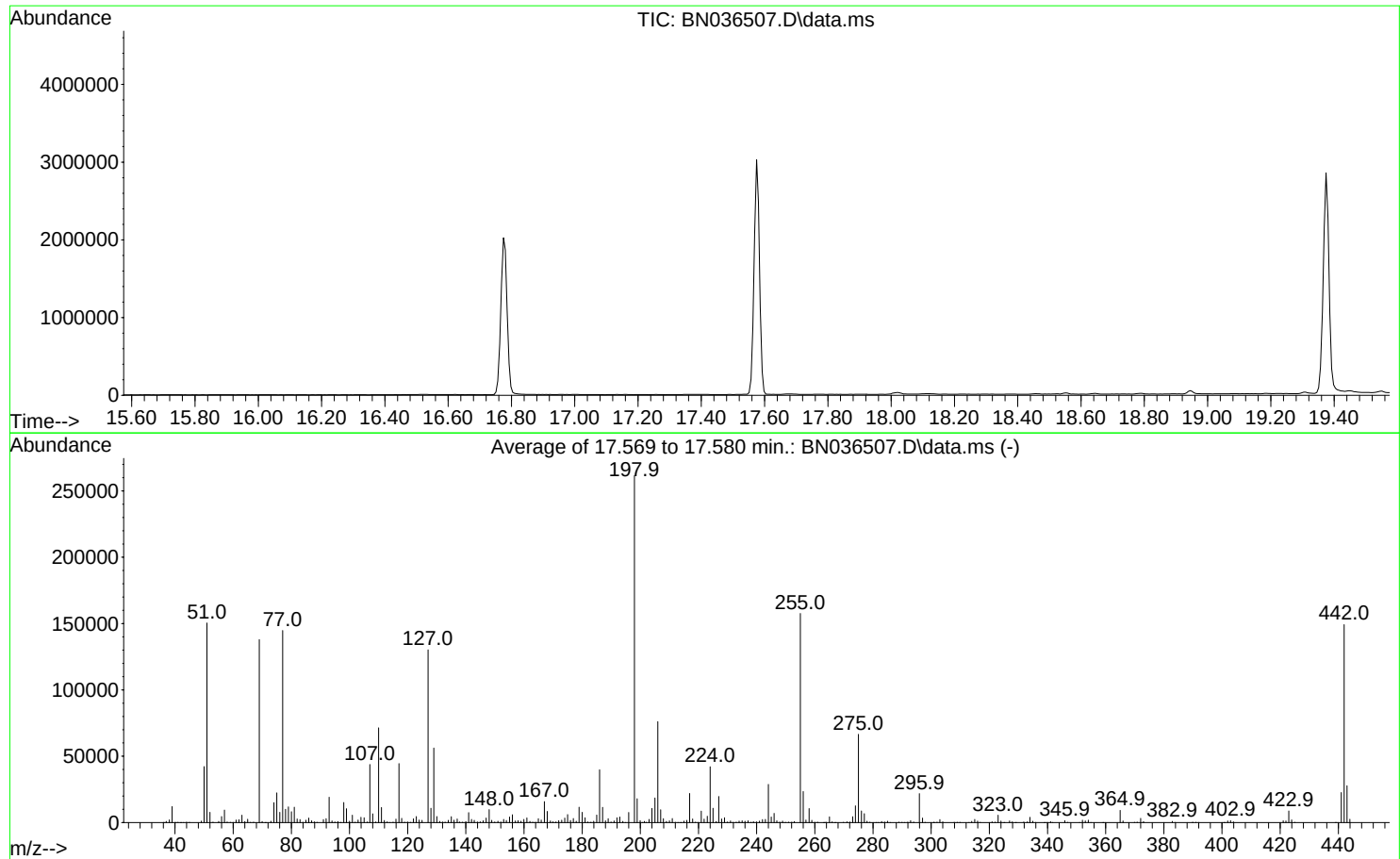
Date	Instrument Name	DFTPP Data File
2/10/2025	BNA_N	<u>BN036408.D</u>
Compound Name	Response	Retention Time
DDT	740190	20.628
DDD	8470	20.239
DDE	0	19.728
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8470	748660	1.13

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036507.D
Acq On : 26 Feb 2025 13:04
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-BN021025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Feb 11 01:17:14 2025



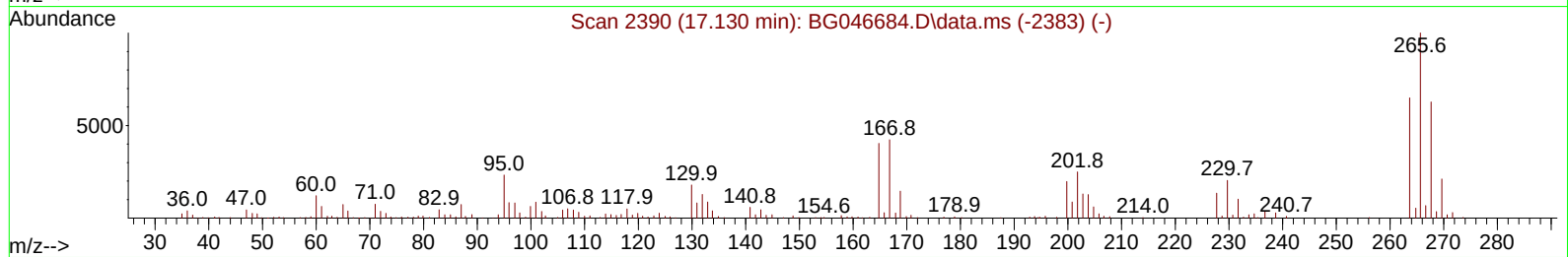
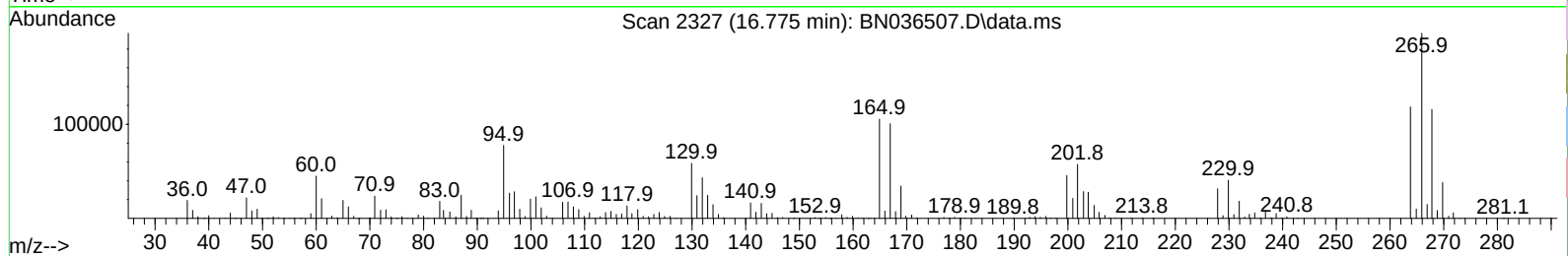
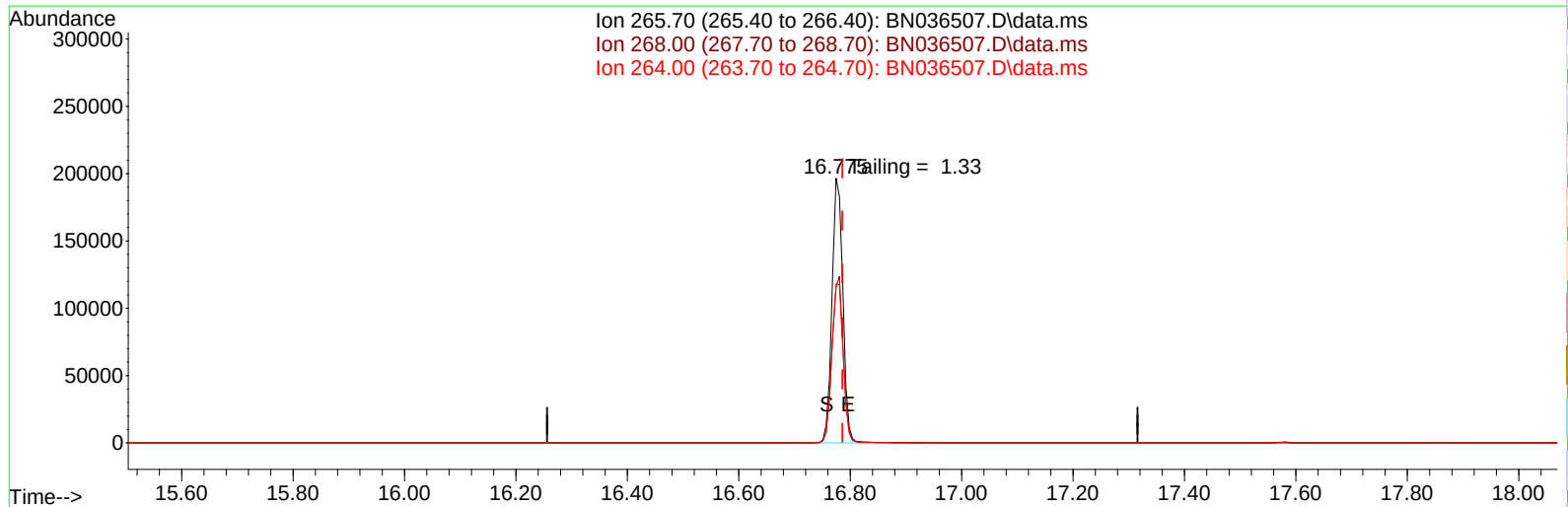
AutoFind: Scans 2462, 2463, 2464; Background Corrected with Scan 2456

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	57.6	150493	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.7	137916	PASS
70	69	0.00	2	0.6	786	PASS
127	198	10	80	49.8	130195	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	261483	PASS
199	198	5	9	6.9	17983	PASS
275	198	10	60	25.4	66488	PASS
365	198	1	100	3.5	9279	PASS
441	198	0.01	100	8.7	22672	PASS
442	442	50	100	100.0	149224	PASS
443	442	15	24	18.6	27735	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036507.D
Acq On : 26 Feb 2025 13:04
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 26 14:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036507.D\data.ms

(70) Pentachlorophenol (C)

16.775min (-0.011) 18096.47 ng

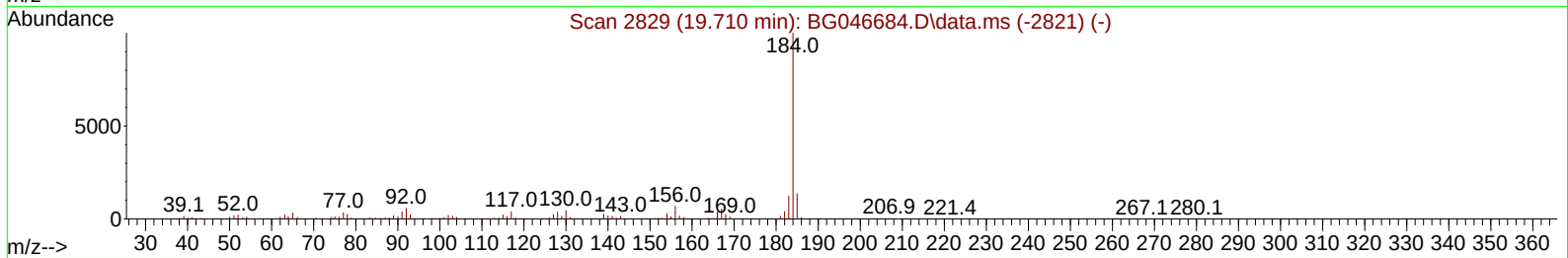
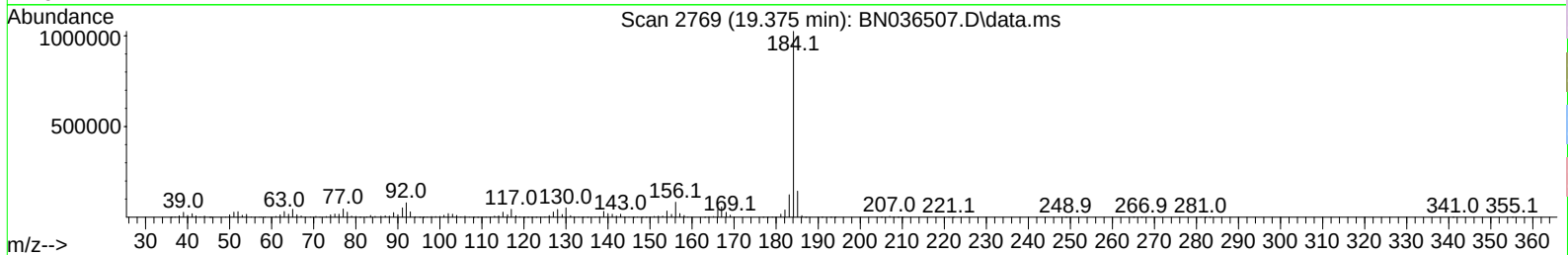
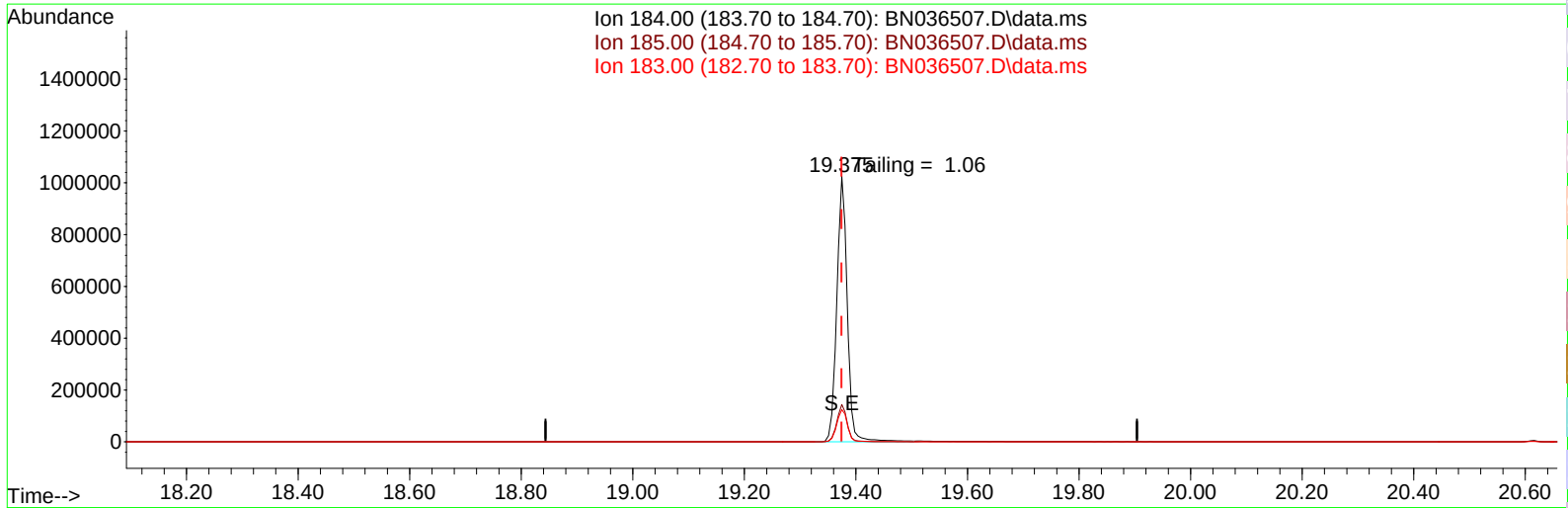
response 266565

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.93
264.00	61.60	60.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036507.D
Acq On : 26 Feb 2025 13:04
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Feb 26 14:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 25 04:23:53 2024
Response via : Initial Calibration



TIC: BN036507.D\data.ms

(77) Benzidine

19.375min (+ 0.000) 0.00 ng

response 1337406

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.07
183.00	13.20	12.12
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/26/2025	BNA_N	<u>BN036507.D</u>
Compound Name	Response	Retention Time
DDT	887081	20.616
DDD	9813	20.227
DDE	276	19.663
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10089	897170	1.12

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166876BL	SDG No.:	Q1423
Lab Sample ID:	PB166876BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036509.D	1	02/26/25 08:52	02/26/25 14:19	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2590	7.746				
1146-65-2	Naphthalene-d8	5220	10.551				
15067-26-2	Acenaphthene-d10	3050	14.387				
1517-22-2	Phenanthrene-d10	5700	17.148				
1719-03-5	Chrysene-d12	3990	21.322				
1520-96-3	Perylene-d12	3510	23.589				

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\BN022625\
Data File : BN036509.D
Acq On : 26 Feb 2025 14:19
Operator : RC/JU
Sample : PB166876BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166876BL

Quant Time: Feb 26 14:42:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.746	152	2585	0.400	ng	0.00
7) Naphthalene-d8	10.551	136	5224	0.400	ng	0.01
13) Acenaphthene-d10	14.387	164	3049	0.400	ng	0.00
19) Phenanthrene-d10	17.148	188	5698	0.400	ng	0.01
29) Chrysene-d12	21.322	240	3989	0.400	ng	# 0.00
35) Perylene-d12	23.589	264	3507	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2211	0.362	ng	-0.01
5) Phenol-d6	6.923	99	2027	0.283	ng	-0.01
8) Nitrobenzene-d5	8.907	82	1771	0.344	ng	0.00
11) 2-Methylnaphthalene-d10	12.156	152	2713	0.338	ng	0.02
14) 2,4,6-Tribromophenol	15.907	330	293	0.194	ng	0.02
15) 2-Fluorobiphenyl	13.030	172	3429	0.299	ng	0.01
27) Fluoranthene-d10	19.169	212	5992	0.378	ng	0.00
31) Terphenyl-d14	19.768	244	3868	0.454	ng	0.00

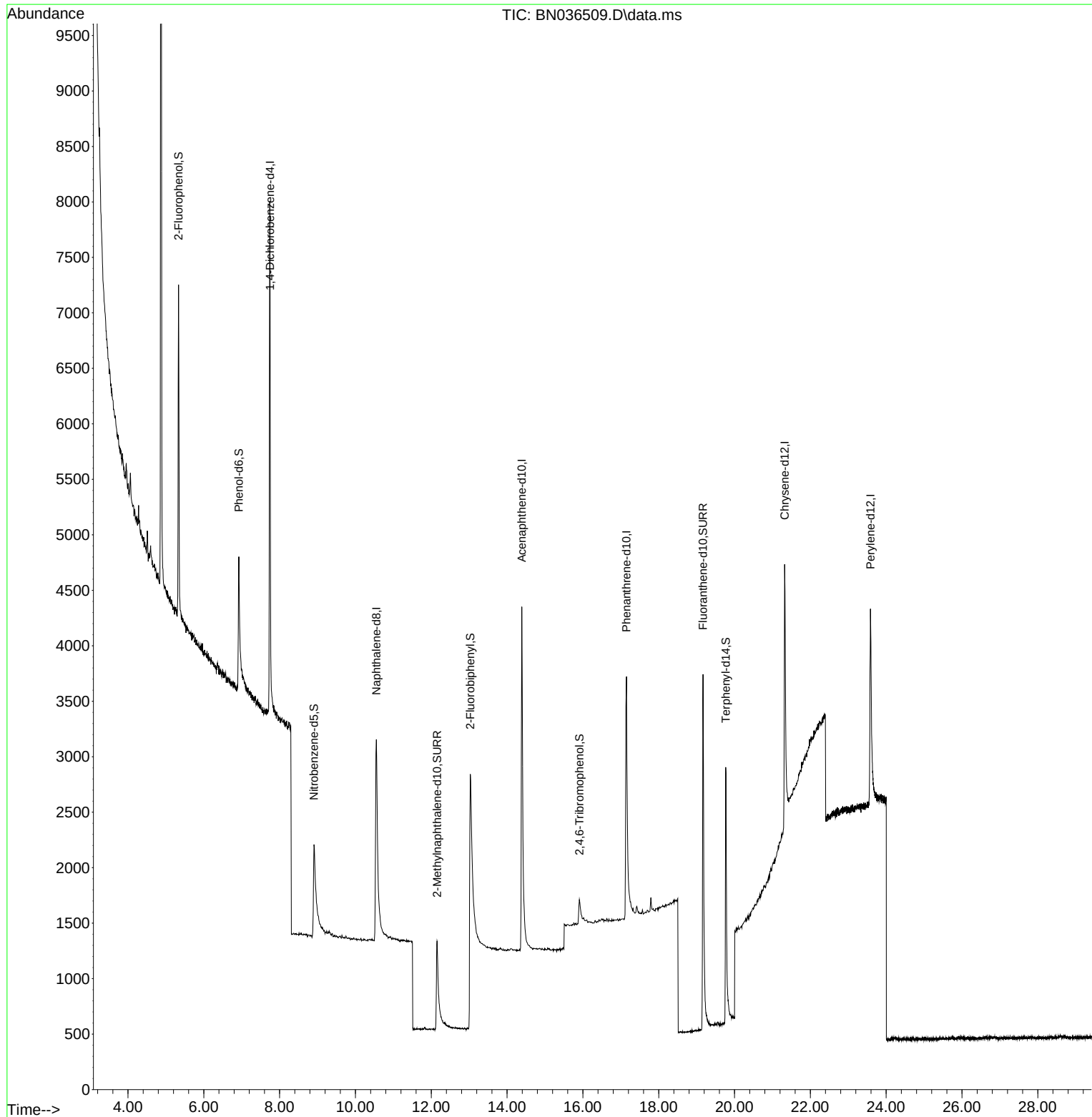
Target Compounds	Qvalue

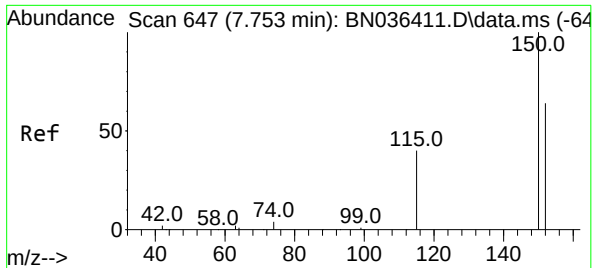
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036509.D
Acq On : 26 Feb 2025 14:19
Operator : RC/JU
Sample : PB166876BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166876BL

Quant Time: Feb 26 14:42:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

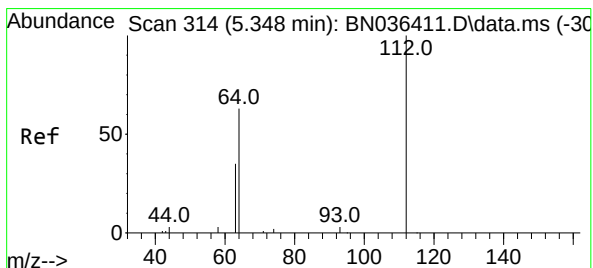
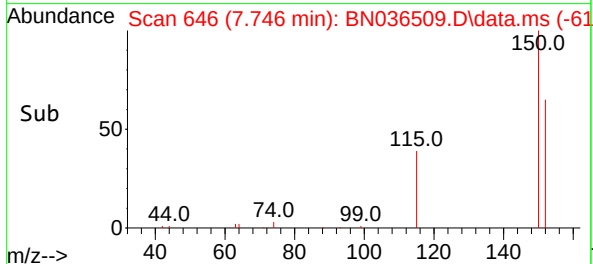
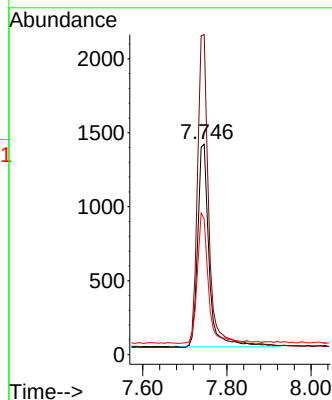
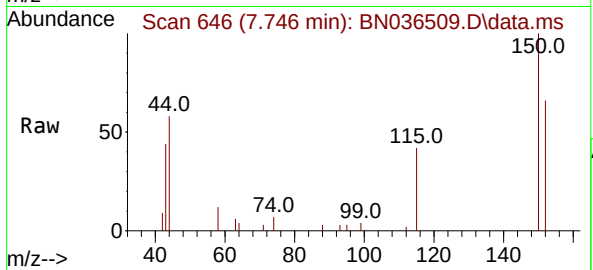




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.746 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

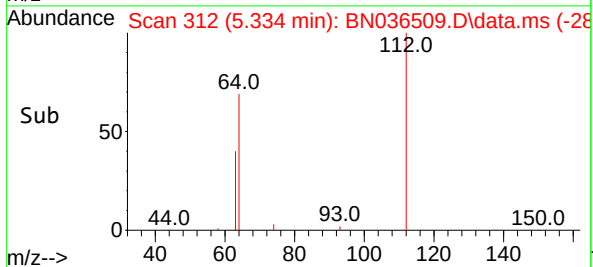
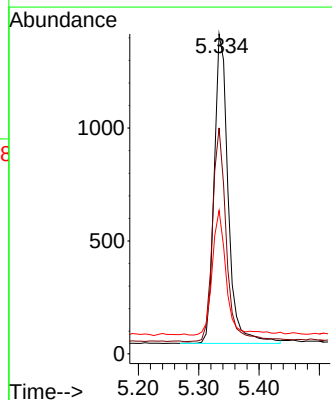
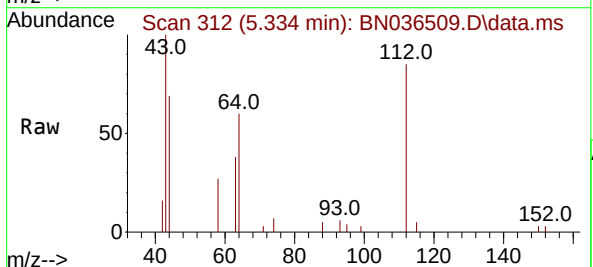
Instrument :
BNA_N
ClientSampleId :
PB166876BL

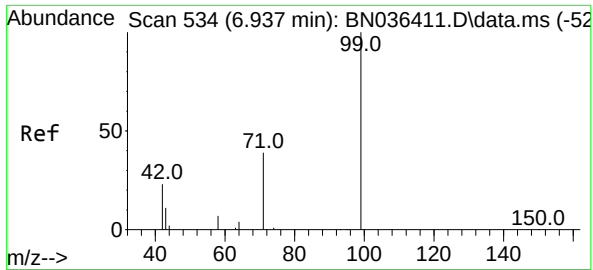
Tgt Ion:152 Resp: 2585
Ion Ratio Lower Upper
152 100
150 152.1 123.7 185.5
115 64.4 52.5 78.7



#4
2-Fluorophenol
Concen: 0.362 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.015 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

Tgt Ion:112 Resp: 2211
Ion Ratio Lower Upper
112 100
64 69.3 53.4 80.0
63 40.9 30.3 45.5

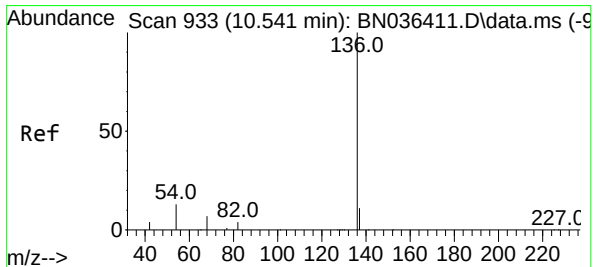
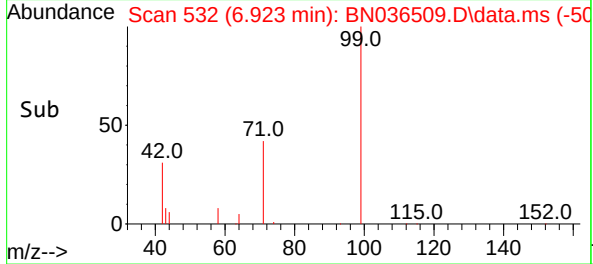
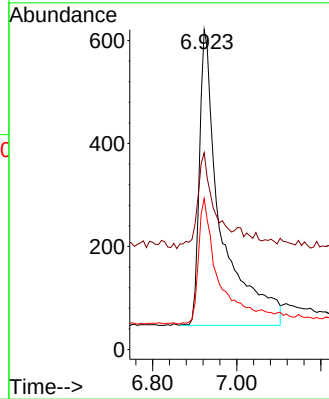
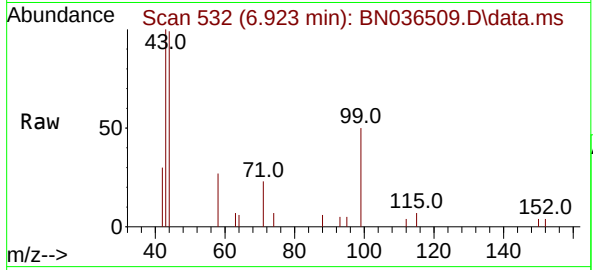




#5
Phenol-d6
Concen: 0.283 ng
RT: 6.923 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

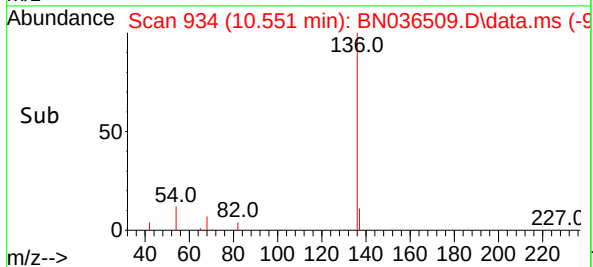
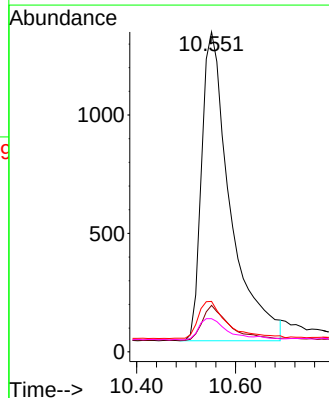
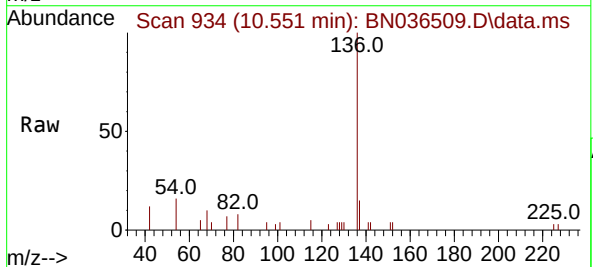
Instrument :
BNA_N
ClientSampleId :
PB166876BL

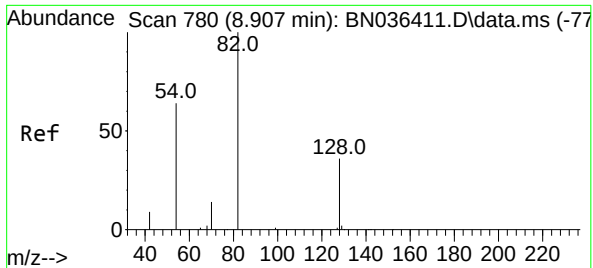
Tgt Ion:	99	Resp:	2027
Ion	Ratio	Lower	Upper
99	100		
42	24.9	21.7	32.5
71	38.4	32.6	49.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.551 min Scan# 934
Delta R.T. 0.011 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

Tgt Ion:	136	Resp:	5224
Ion	Ratio	Lower	Upper
136	100		
137	14.5	10.1	15.1
54	15.8	11.8	17.6
68	10.4	7.2	10.8

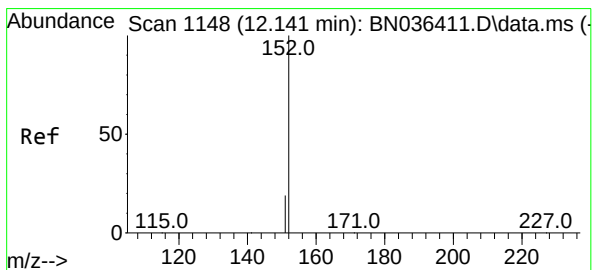
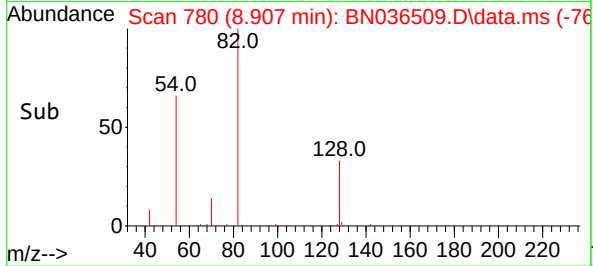
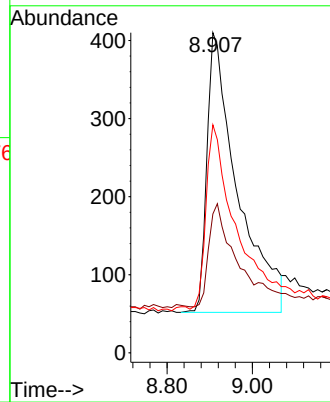
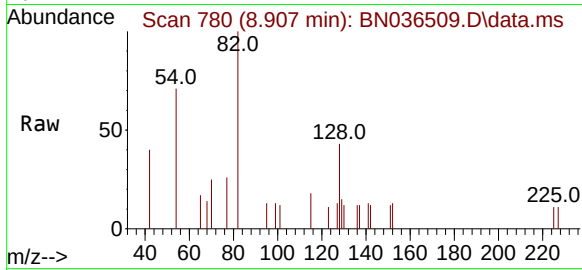




#8
Nitrobenzene-d5
Concen: 0.344 ng
RT: 8.907 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

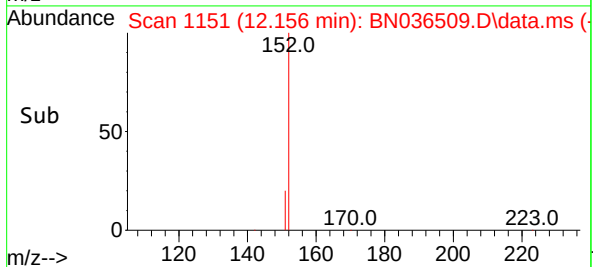
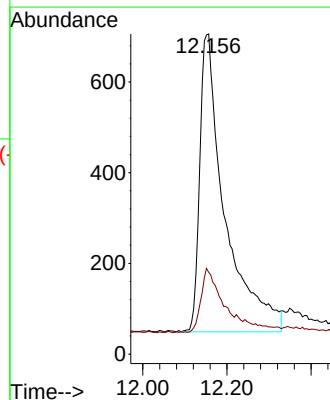
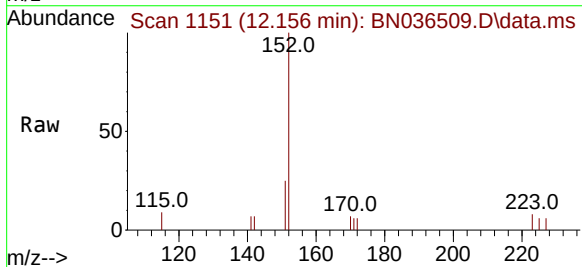
Instrument :
BNA_N
ClientSampleId :
PB166876BL

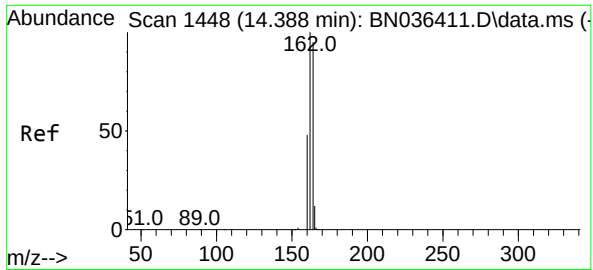
Tgt Ion:	82	Resp:	1771
Ion	Ratio	Lower	Upper
82	100		
128	43.4	31.9	47.9
54	71.2	53.1	79.7



#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 12.156 min Scan# 1151
Delta R.T. 0.015 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

Tgt Ion:	152	Resp:	2713
Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.6	25.0

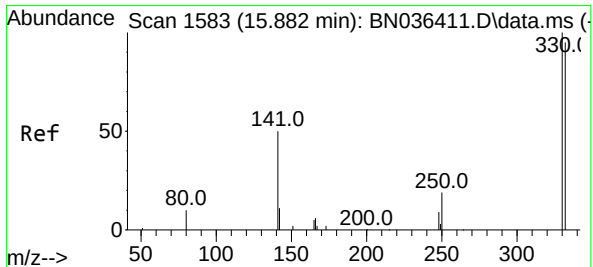
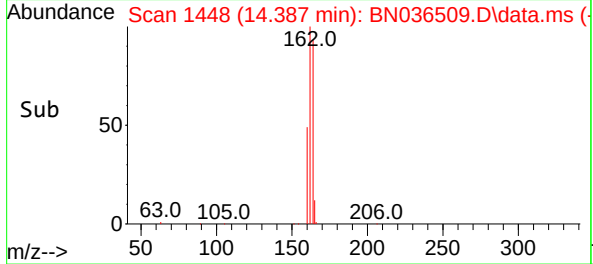
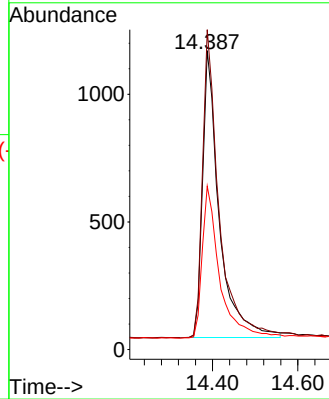
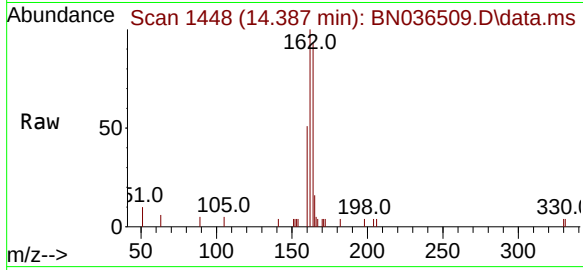




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 1448
Delta R.T. -0.000 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

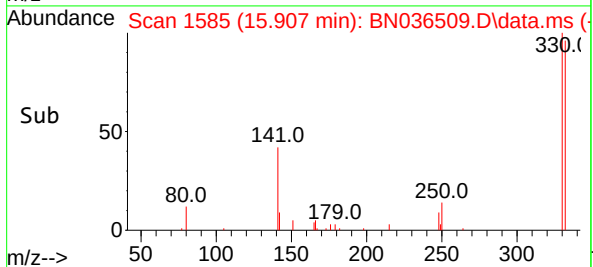
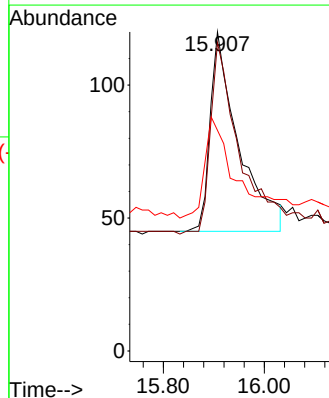
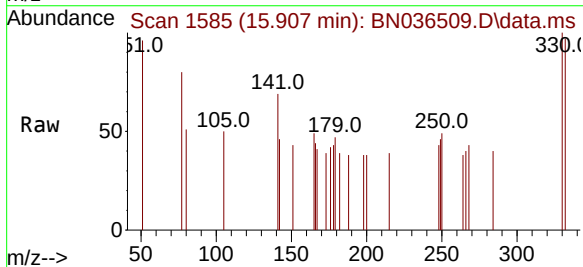
Instrument :
BNA_N
ClientSampleId :
PB166876BL

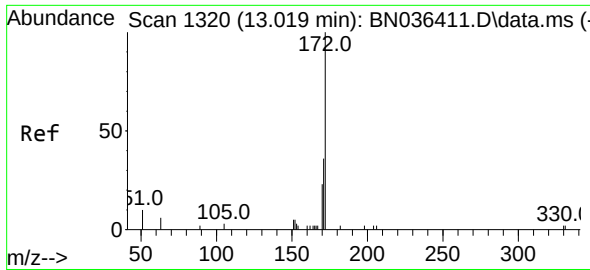
Tgt Ion:164 Resp: 3049
Ion Ratio Lower Upper
164 100
162 107.0 84.1 126.1
160 54.7 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.194 ng
RT: 15.907 min Scan# 1585
Delta R.T. 0.025 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

Tgt Ion:330 Resp: 293
Ion Ratio Lower Upper
330 100
332 98.0 76.6 114.8
141 53.2 37.8 56.8

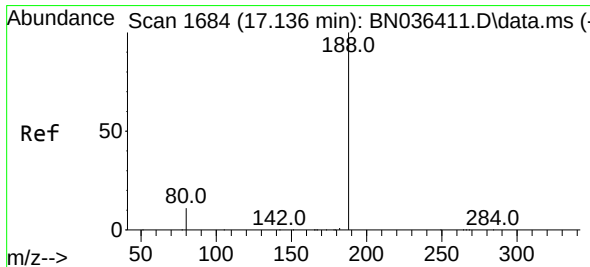
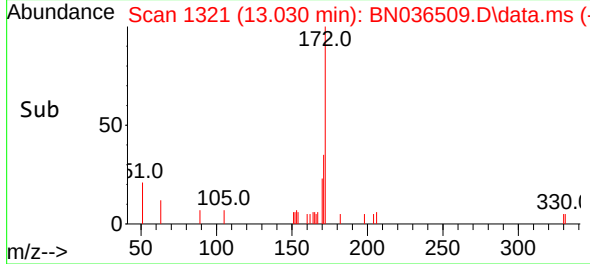
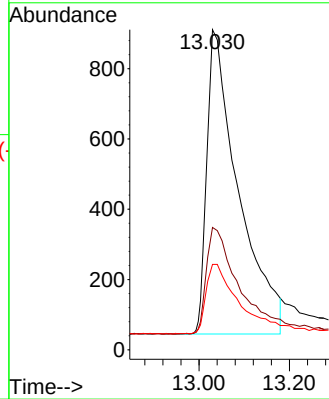
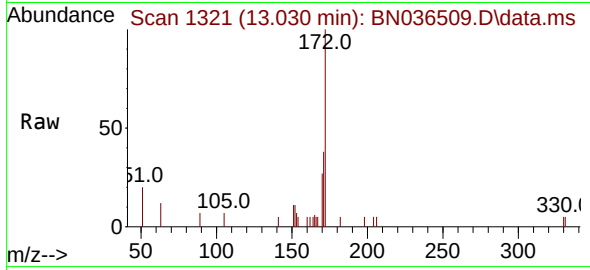




#15
2-Fluorobiphenyl
Concen: 0.299 ng
RT: 13.030 min Scan# 1320
Delta R.T. 0.011 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

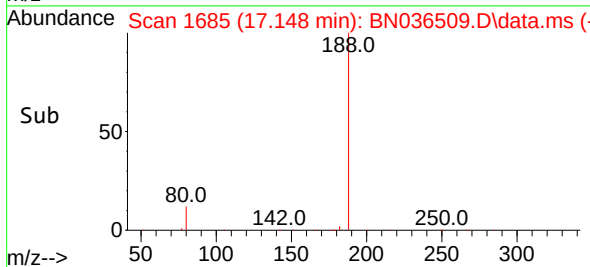
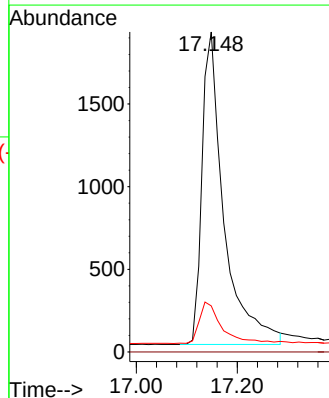
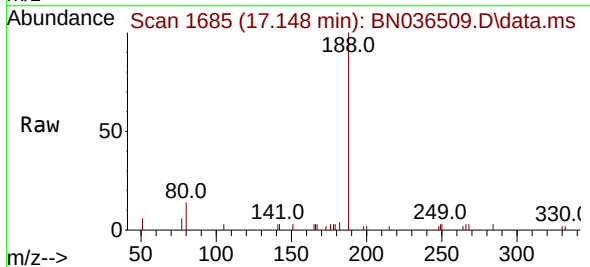
Instrument :
BNA_N
ClientSampleId :
PB166876BL

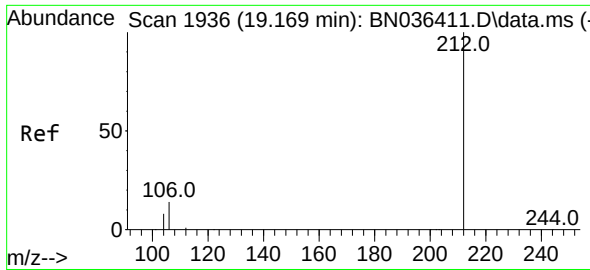
Tgt Ion:	172	Resp:	3429
Ion Ratio	Lower	Upper	
172	100		
171	38.2	29.6	44.4
170	26.7	19.8	29.6



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.148 min Scan# 1685
Delta R.T. 0.012 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

Tgt Ion:	188	Resp:	5698
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.4	9.8	14.6





#27

Fluoranthene-d10

Concen: 0.378 ng

RT: 19.169 min Scan# 1936

Delta R.T. -0.000 min

Lab File: BN036509.D

Acq: 26 Feb 2025 14:19

Instrument :

BNA_N

ClientSampleId :

PB166876BL

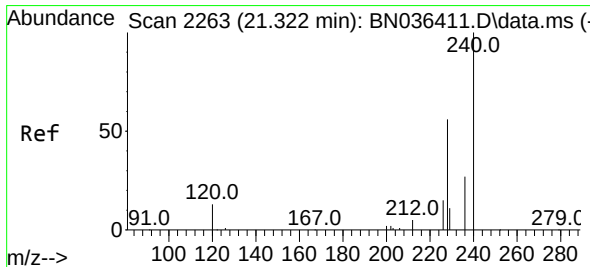
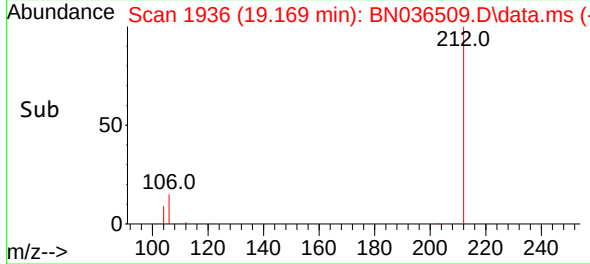
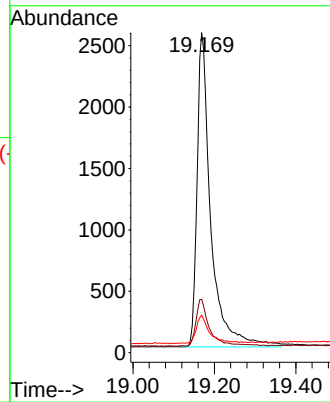
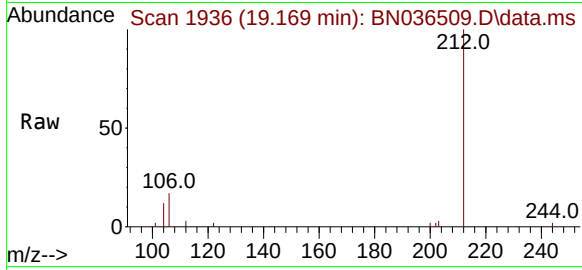
Tgt Ion:212 Resp: 5992

Ion Ratio Lower Upper

212 100

106 14.1 11.5 17.3

104 8.2 7.1 10.7



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.322 min Scan# 2263

Delta R.T. -0.000 min

Lab File: BN036509.D

Acq: 26 Feb 2025 14:19

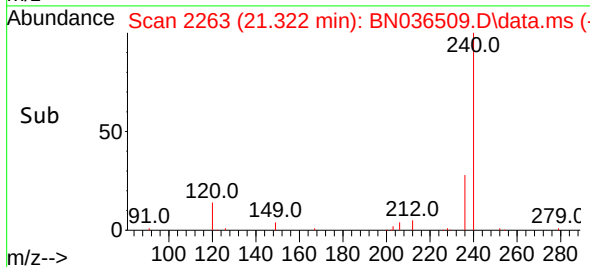
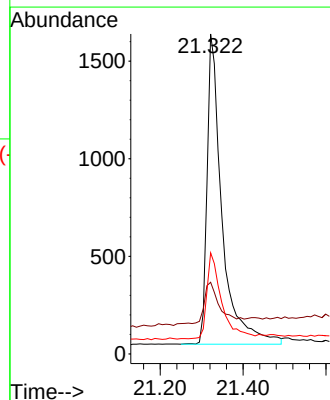
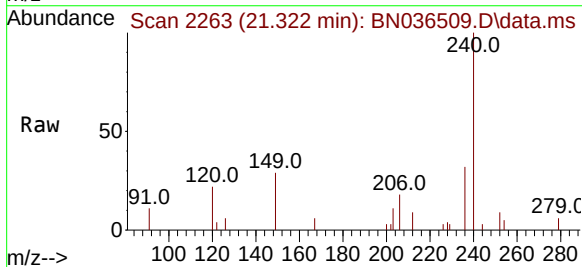
Tgt Ion:240 Resp: 3989

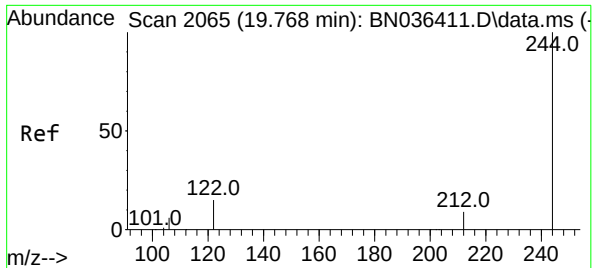
Ion Ratio Lower Upper

240 100

120 22.4 13.3 19.9#

236 31.6 23.0 34.6

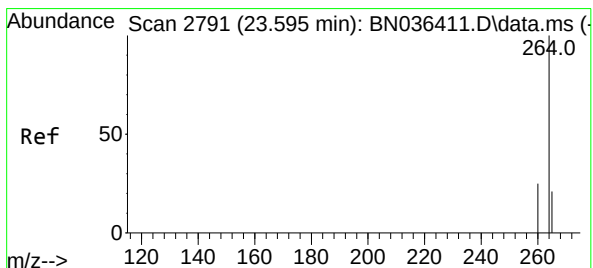
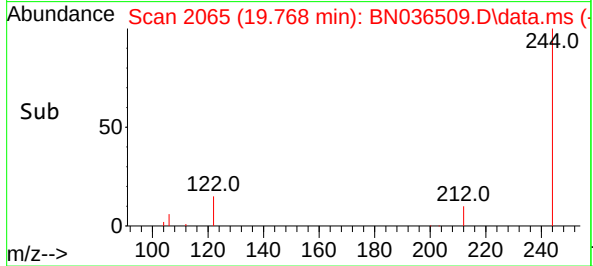
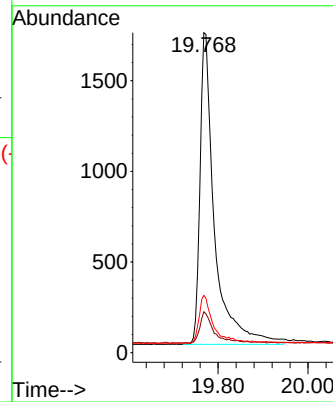
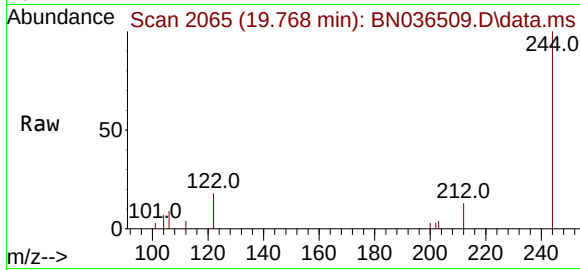




#31
Terphenyl-d14
Concen: 0.454 ng
RT: 19.768 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

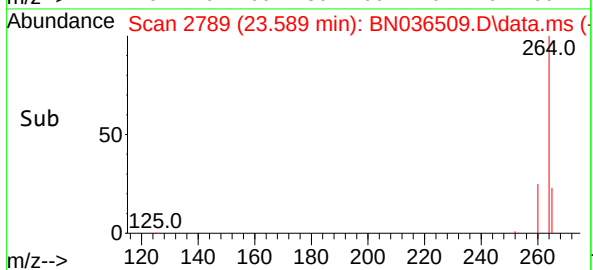
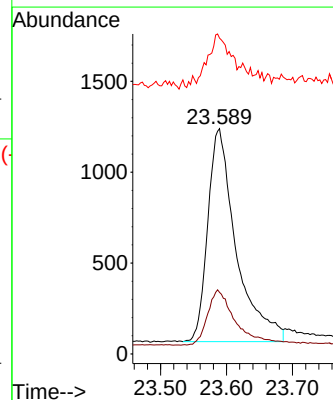
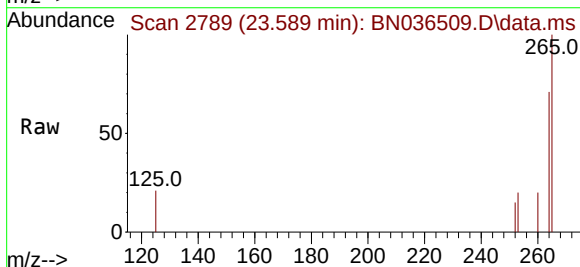
Instrument :
BNA_N
ClientSampleId :
PB166876BL

Tgt Ion:244 Resp: 3868
Ion Ratio Lower Upper
244 100
212 12.8 8.1 12.1#
122 17.9 12.8 19.2



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.589 min Scan# 2789
Delta R.T. -0.006 min
Lab File: BN036509.D
Acq: 26 Feb 2025 14:19

Tgt Ion:264 Resp: 3507
Ion Ratio Lower Upper
264 100
260 27.3 20.9 31.3
265 140.2 60.7 91.1#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166876BS	SDG No.:	Q1423
Lab Sample ID:	PB166876BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036512.D	1	02/26/25 08:52	02/26/25 16:07	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.49	*	53 - 106		123%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2530	7.739				
1146-65-2	Naphthalene-d8	5760	10.53				
15067-26-2	Acenaphthene-d10	3210	14.377				
1517-22-2	Phenanthrene-d10	5800	17.124				
1719-03-5	Chrysene-d12	3660	21.313				
1520-96-3	Perylene-d12	3290	23.584				

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\BN022625\
 Data File : BN036512.D
 Acq On : 26 Feb 2025 16:07
 Operator : RC/JU
 Sample : PB166876BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB166876BS

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 26 16:36:58 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Feb 11 01:17:14 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2531	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5759	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	3208	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	5804	0.400	ng	#-0.01
29) Chrysene-d12	21.313	240	3657	0.400	ng	# 0.00
35) Perylene-d12	23.584	264	3285	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2271	0.380	ng	-0.01
5) Phenol-d6	6.923	99	2497	0.356	ng	-0.01
8) Nitrobenzene-d5	8.897	82	2175	0.383	ng	-0.01
11) 2-Methylnaphthalene-d10	12.126	152	3830m	0.433	ng	-0.02
14) 2,4,6-Tribromophenol	15.882	330	467	0.294	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	5925	0.491	ng	-0.01
27) Fluoranthene-d10	19.160	212	5465	0.339	ng	0.00
31) Terphenyl-d14	19.763	244	3729	0.478	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.261	88	1032	0.373	ng	# 66
3) n-Nitrosodimethylamine	3.564	42	2081	0.433	ng	93
6) bis(2-Chloroethyl)ether	7.168	93	2797	0.381	ng	99
9) Naphthalene	10.584	128	6618	0.398	ng	99
10) Hexachlorobutadiene	10.872	225	1683	0.416	ng	# 99
12) 2-Methylnaphthalene	12.202	142	4224	0.388	ng	98
16) Acenaphthylene	14.099	152	6576	0.464	ng	99
17) Acenaphthene	14.441	154	4081	0.431	ng	99
18) Fluorene	15.435	166	5322	0.395	ng	99
20) 4,6-Dinitro-2-methylph...	15.522	198	352	0.309	ng	94
21) 4-Bromophenyl-phenylether	16.329	248	1533	0.443	ng	# 80
22) Hexachlorobenzene	16.441	284	1936	0.453	ng	95
23) Atrazine	16.602	200	1219	0.422	ng	96
24) Pentachlorophenol	16.789	266	1174	0.578	ng	98
25) Phenanthrene	17.161	178	7256	0.433	ng	100
26) Anthracene	17.260	178	6809	0.460	ng	99
28) Fluoranthene	19.192	202	7477	0.363	ng	99
30) Pyrene	19.554	202	7603	0.540	ng	99
32) Benzo(a)anthracene	21.304	228	5112	0.425	ng	98
33) Chrysene	21.357	228	5975	0.459	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	3504	0.467	ng	99
36) Indeno(1,2,3-cd)pyrene	25.884	276	5525	0.481	ng	100
37) Benzo(b)fluoranthene	22.899	252	4703	0.435	ng	# 92
38) Benzo(k)fluoranthene	22.946	252	5500	0.494	ng	# 91
39) Benzo(a)pyrene	23.487	252	4670	0.495	ng	# 88
40) Dibenzo(a,h)anthracene	25.902	278	4122	0.455	ng	# 90
41) Benzo(g,h,i)perylene	26.577	276	4481	0.436	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036512.D
 Acq On : 26 Feb 2025 16:07
 Operator : RC/JU
 Sample : PB166876BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB166876BS

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025

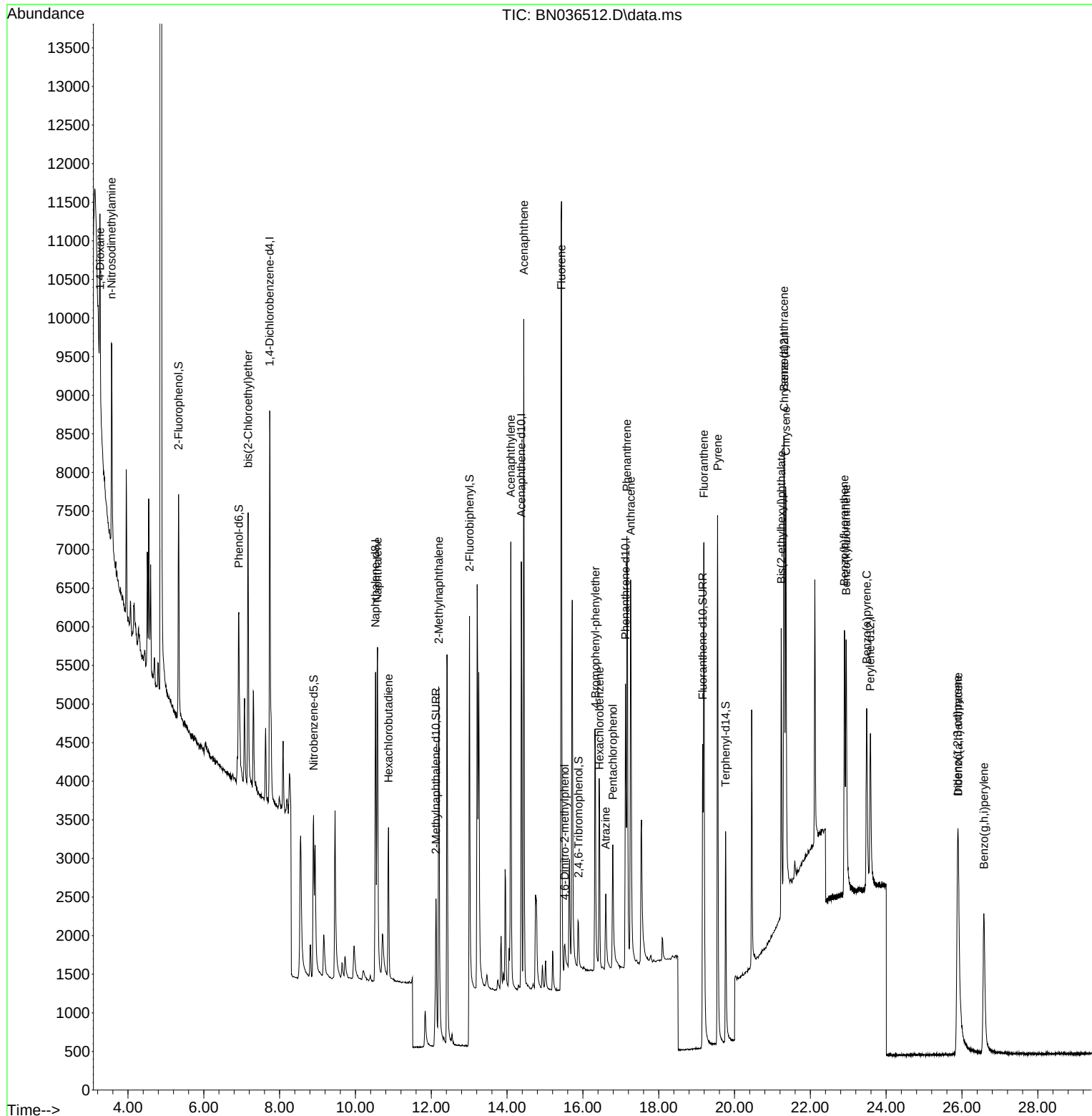
Quant Time: Feb 26 16:36:58 2025

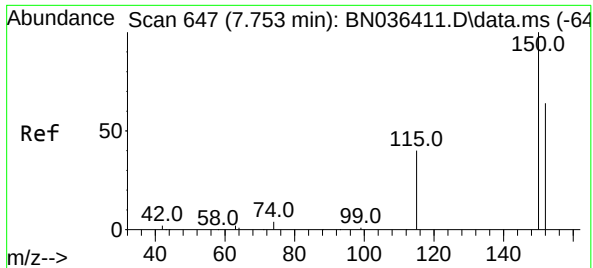
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Feb 11 01:17:14 2025

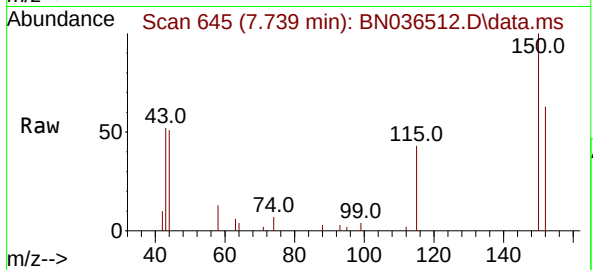
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

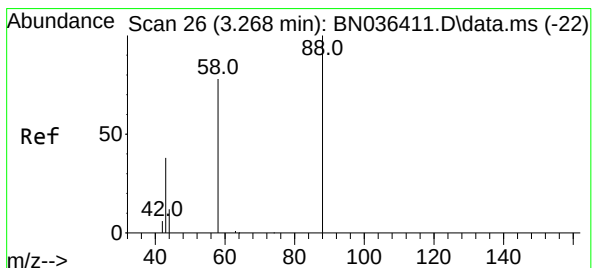
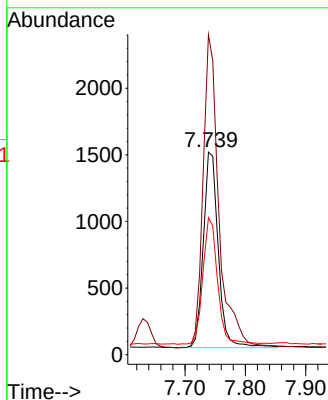
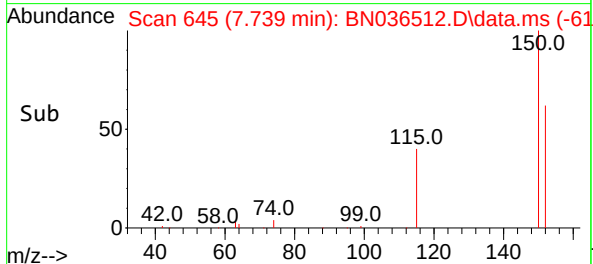
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion: 152 Resp: 253
Ion Ratio Lower Upper
152 100
150 158.0 123.7 185.5
115 67.6 52.5 78.7

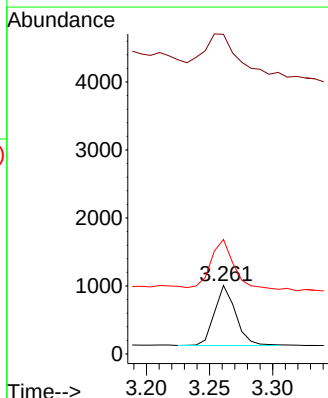
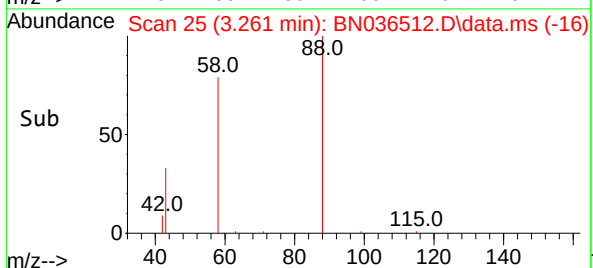
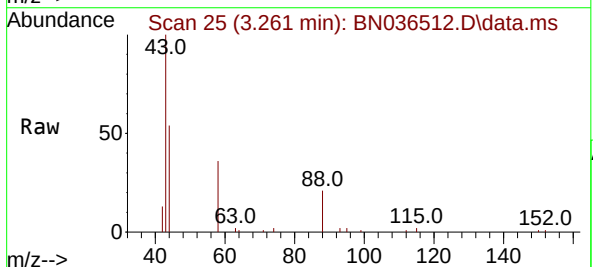
Manual Integrations
APPROVED

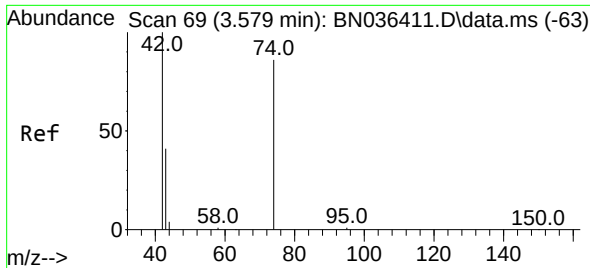
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion: 88 Resp: 1032
Ion Ratio Lower Upper
88 100
43 102.6 33.7 50.5#
58 90.2 68.9 103.3





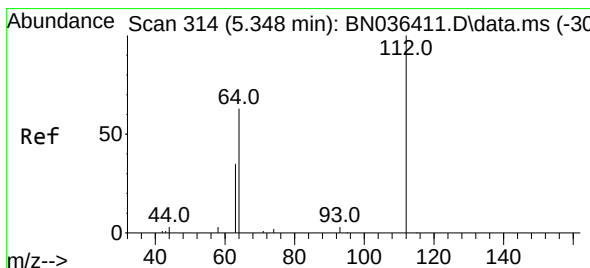
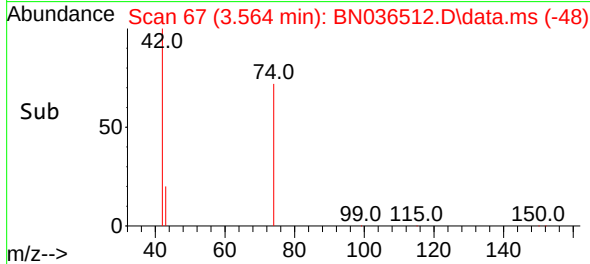
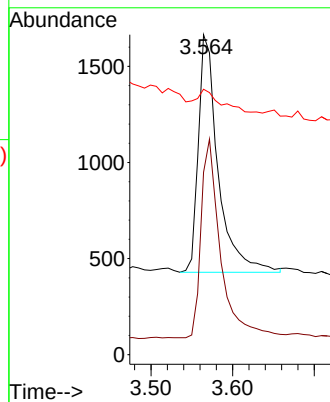
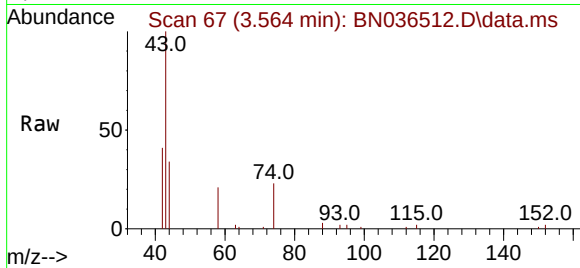
#3
n-Nitrosodimethylamine
Concen: 0.433 ng
RT: 3.564 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Instrument :
BNA_N
ClientSampleId :
PB166876BS

Tgt Ion: 42 Resp: 208
Ion Ratio Lower Upper
42 100
74 82.7 71.8 107.6
44 11.4 7.8 11.6

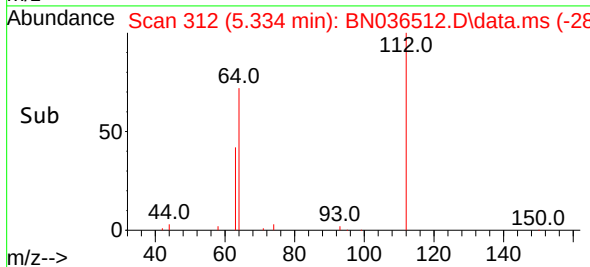
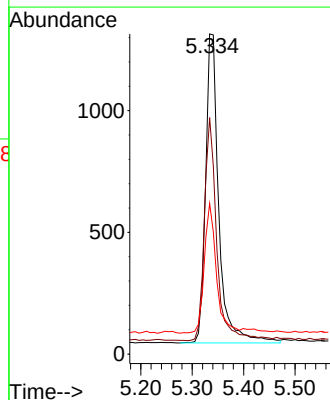
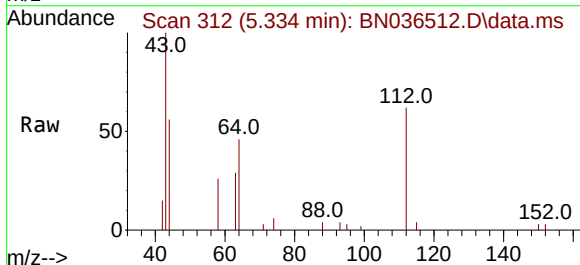
Manual Integrations
APPROVED

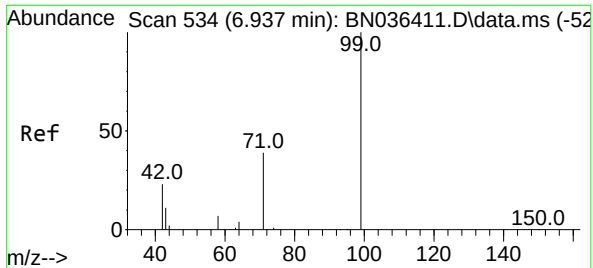
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#4
2-Fluorophenol
Concen: 0.380 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

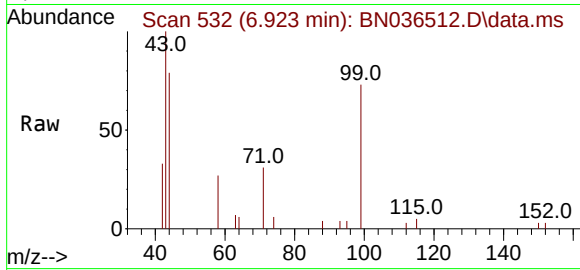
Tgt Ion:112 Resp: 2271
Ion Ratio Lower Upper
112 100
64 68.0 53.4 80.0
63 38.2 30.3 45.5





#5
Phenol-d6
Concen: 0.356 ng
RT: 6.923 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

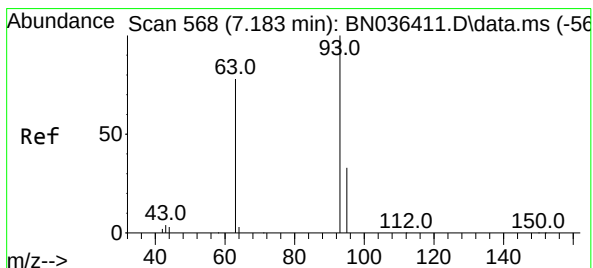
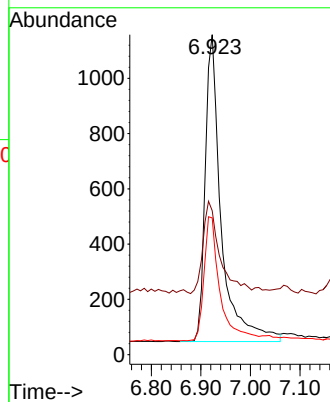
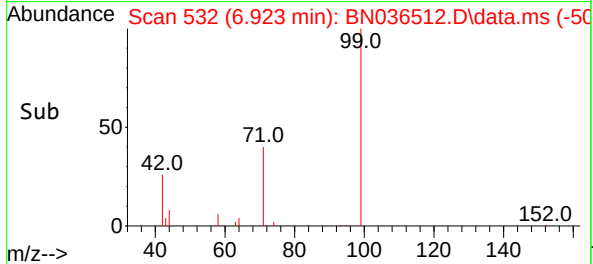
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion: 99 Resp: 249
Ion Ratio Lower Upper
99 100
42 31.8 21.7 32.5
71 40.2 32.6 49.0

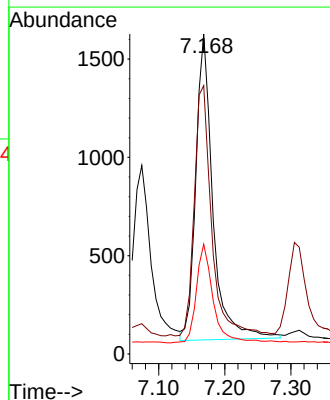
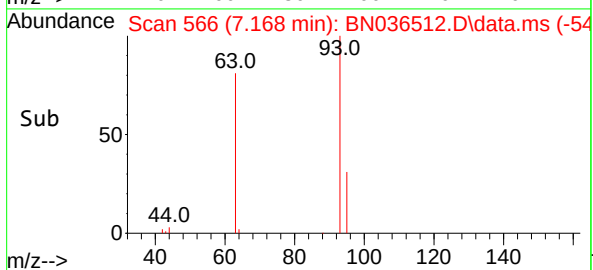
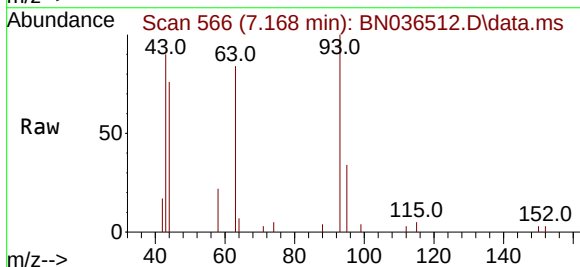
Manual Integrations
APPROVED

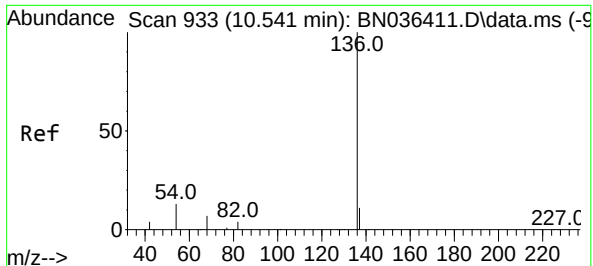
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 7.168 min Scan# 566
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

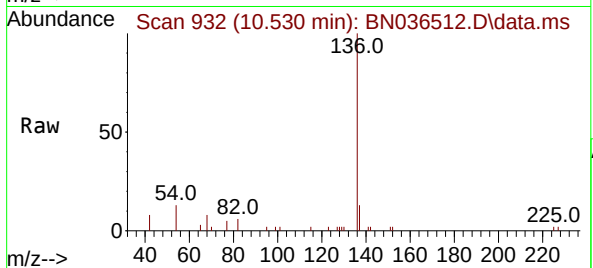
Tgt Ion: 93 Resp: 2797
Ion Ratio Lower Upper
93 100
63 83.2 66.3 99.5
95 31.7 26.2 39.4





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

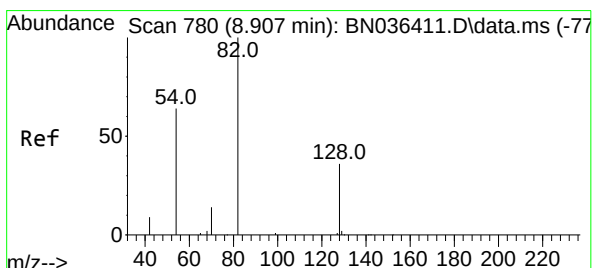
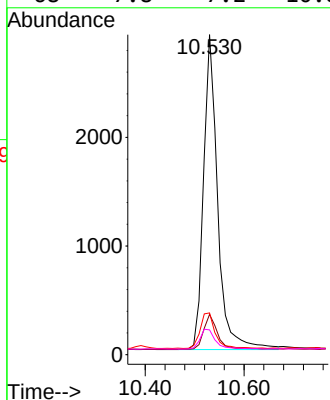
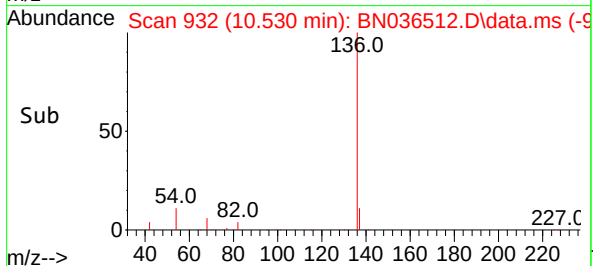
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:136 Resp: 575
Ion Ratio Lower Upper
136 100
137 12.6 10.1 15.1
54 13.1 11.8 17.6
68 7.8 7.2 10.8

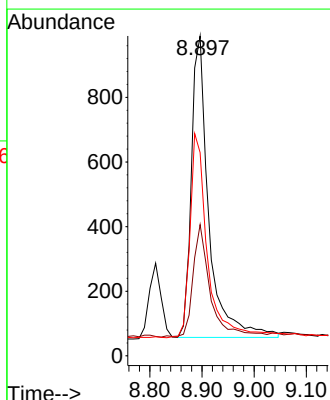
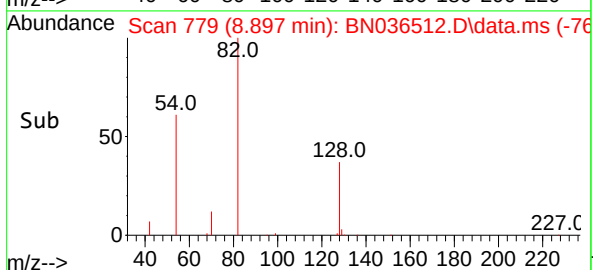
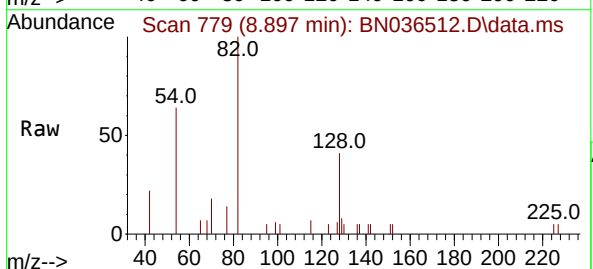
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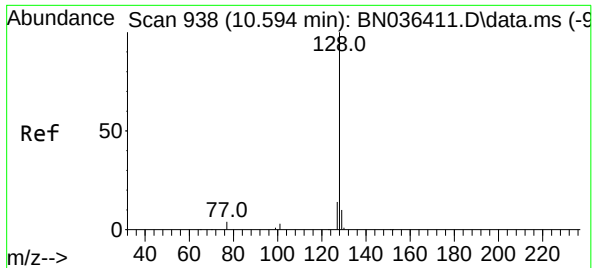
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion: 82 Resp: 2175
Ion Ratio Lower Upper
82 100
128 41.0 31.9 47.9
54 63.5 53.1 79.7





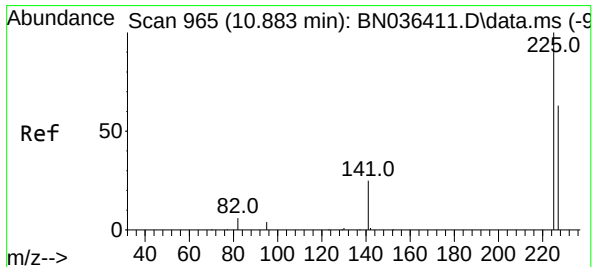
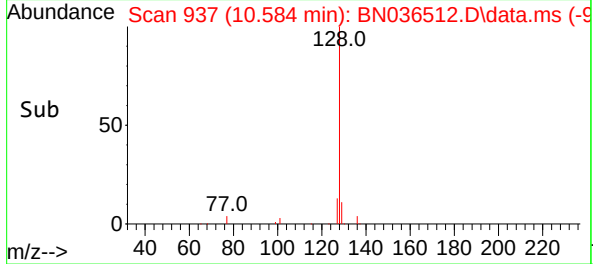
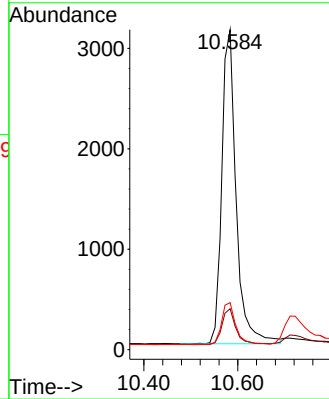
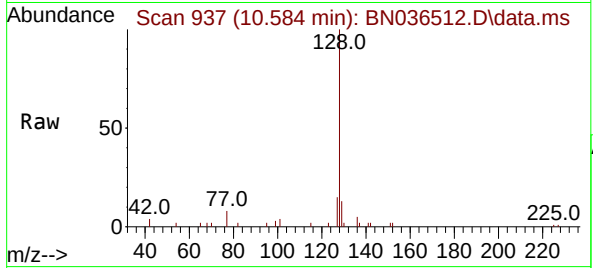
#9
Naphthalene
Concen: 0.398 ng
RT: 10.584 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Instrument :
BNA_N
ClientSampleId :
PB166876BS

Tgt Ion:128 Resp: 6618
Ion Ratio Lower Upper
128 100
129 12.8 9.6 14.4
127 14.7 12.0 18.0

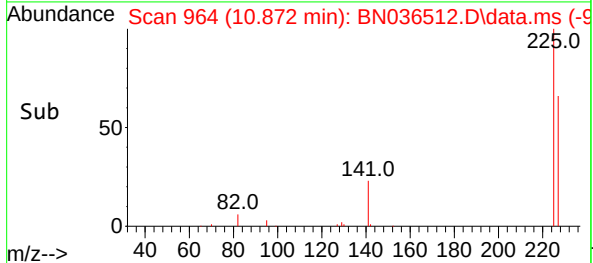
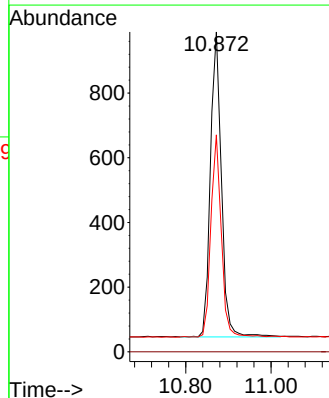
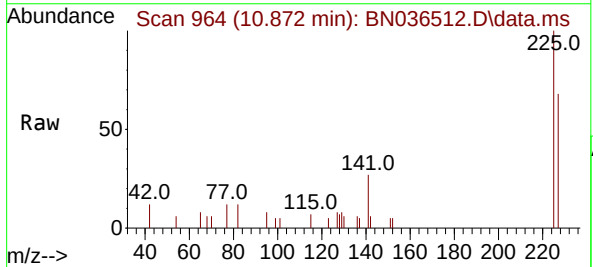
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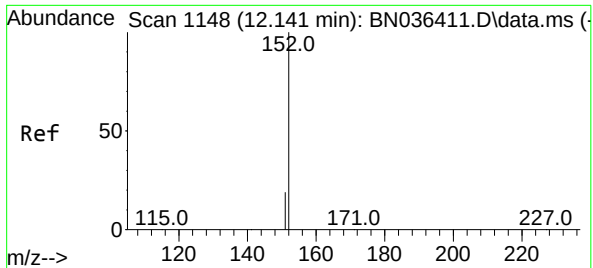
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

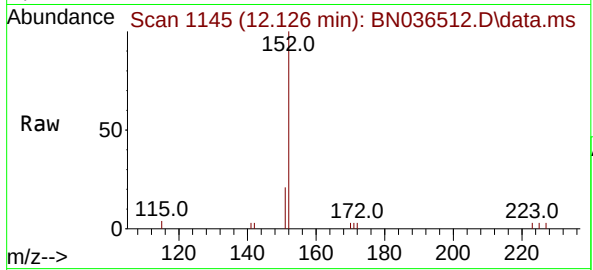
Tgt Ion:225 Resp: 1683
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.4 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.433 ng m
RT: 12.126 min Scan# 1145
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

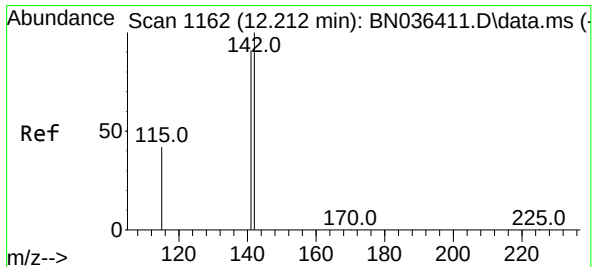
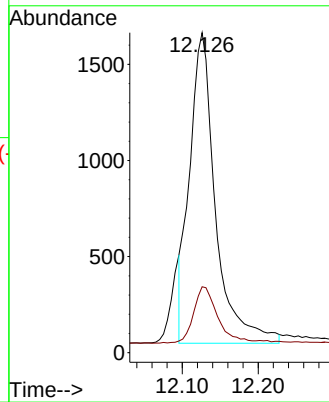
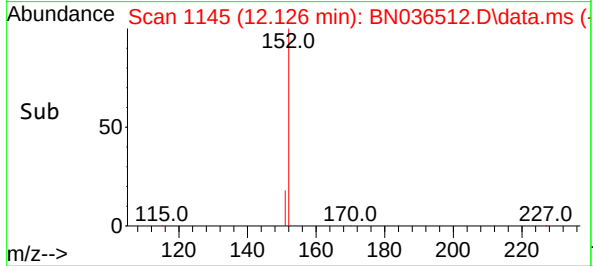
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:152 Resp: 3830
Ion Ratio Lower Upper
152 100
151 17.0 16.6 25.0

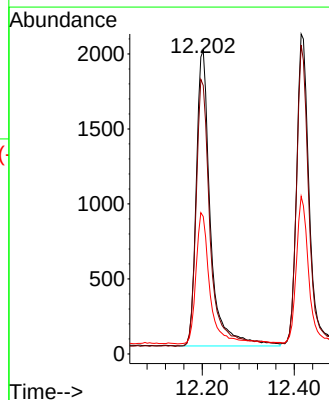
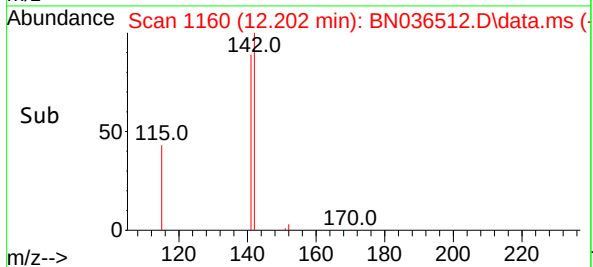
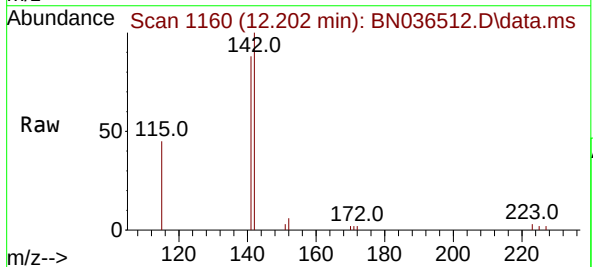
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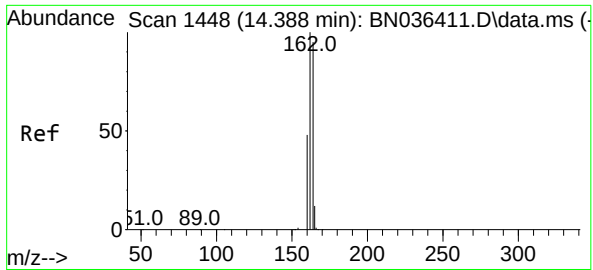
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.202 min Scan# 1160
Delta R.T. -0.010 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

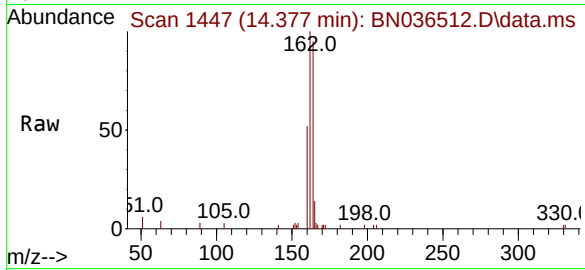
Tgt Ion:142 Resp: 4224
Ion Ratio Lower Upper
142 100
141 88.4 72.8 109.2
115 45.3 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

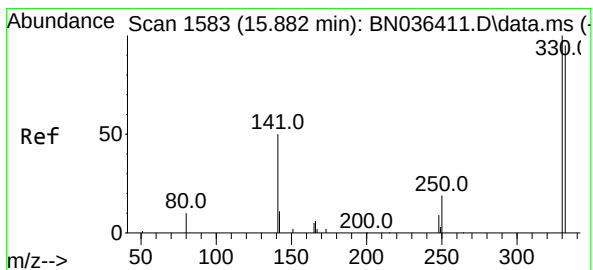
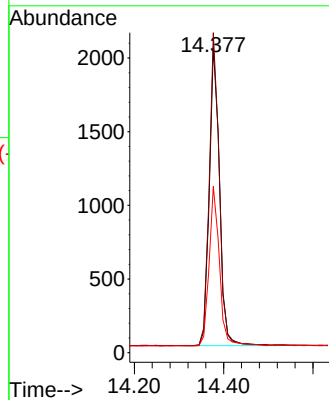
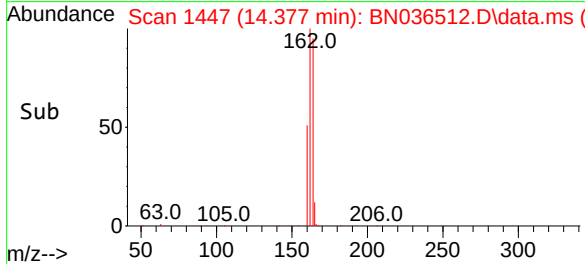
Instrument :
BNA_N
ClientSampleId :
PB166876BS



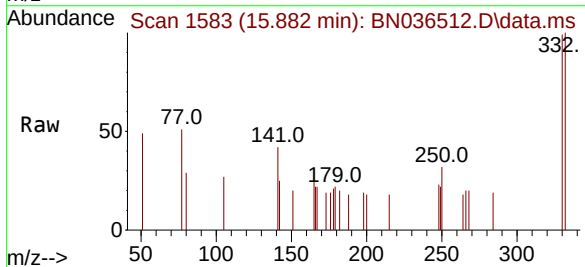
Tgt Ion:164 Resp: 320
Ion Ratio Lower Upper
164 100
162 104.8 84.1 126.1
160 54.5 41.4 62.0

Manual Integrations
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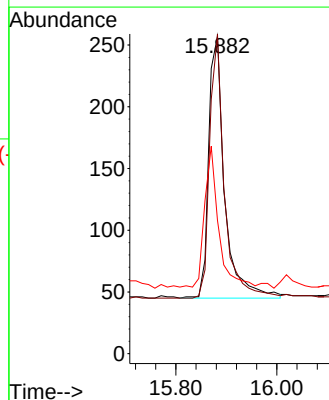
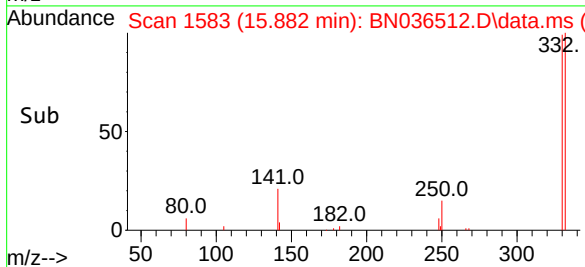
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

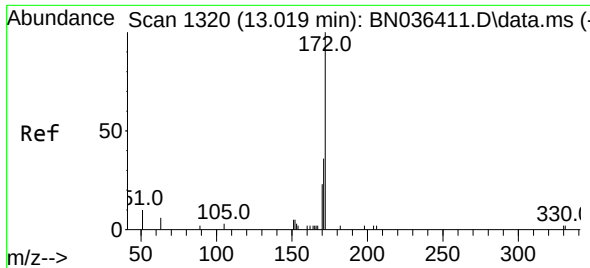


#14
2,4,6-Tribromophenol
Concen: 0.294 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07



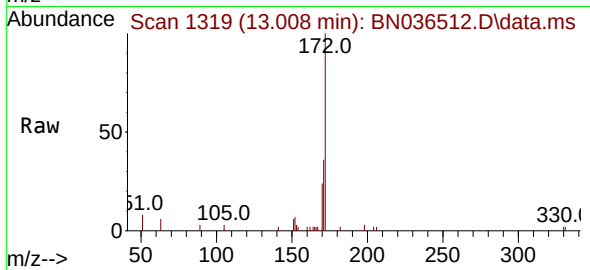
Tgt Ion:330 Resp: 467
Ion Ratio Lower Upper
330 100
332 93.1 76.6 114.8
141 49.7 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.491 ng
RT: 13.008 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

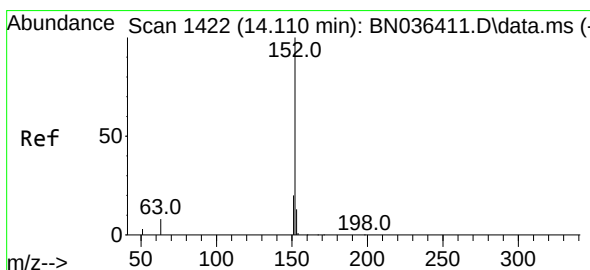
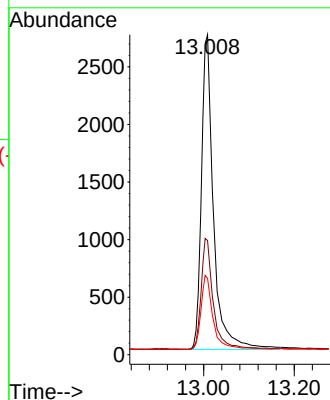
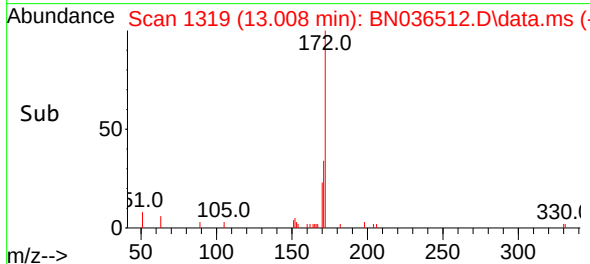
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:172 Resp: 5925
Ion Ratio Lower Upper
172 100
171 35.7 29.6 44.4
170 23.9 19.8 29.6

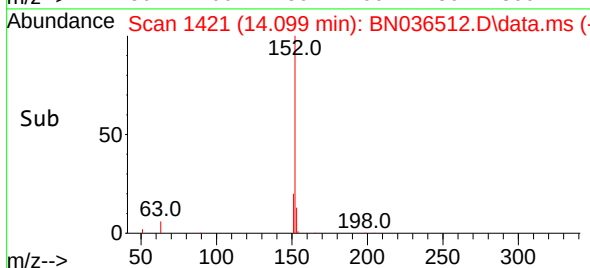
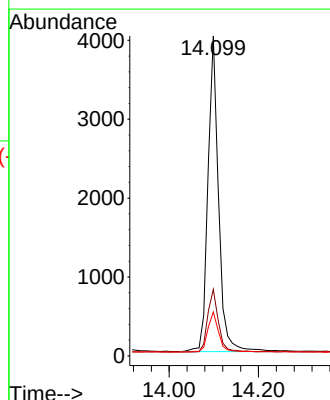
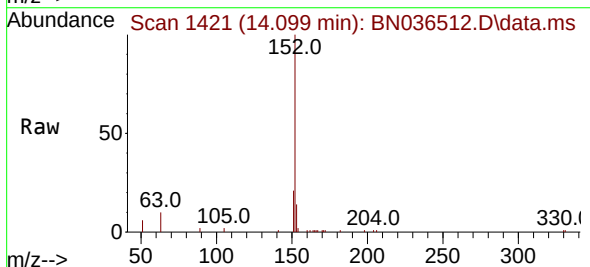
Manual Integrations
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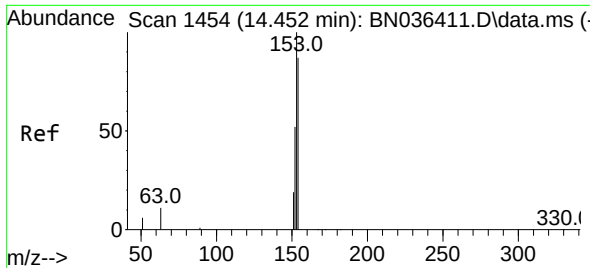
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#16
Acenaphthylene
Concen: 0.464 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

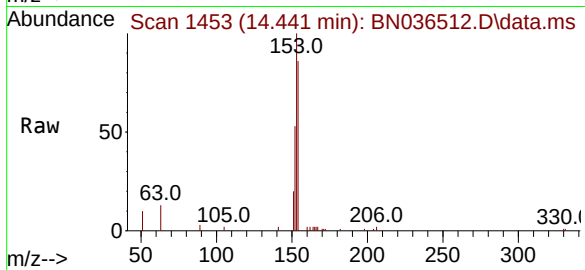
Tgt Ion:152 Resp: 6576
Ion Ratio Lower Upper
152 100
151 20.1 15.8 23.8
153 13.0 10.2 15.2





#17
Acenaphthene
Concen: 0.431 ng
RT: 14.441 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

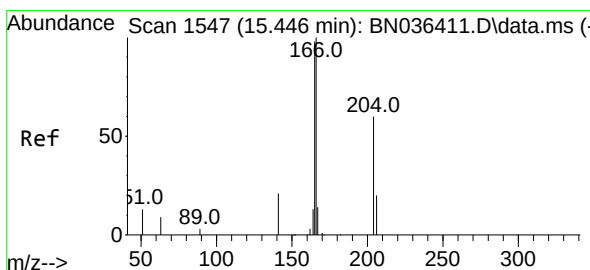
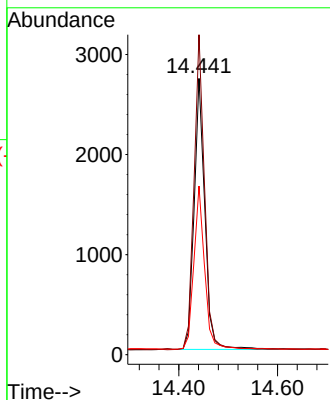
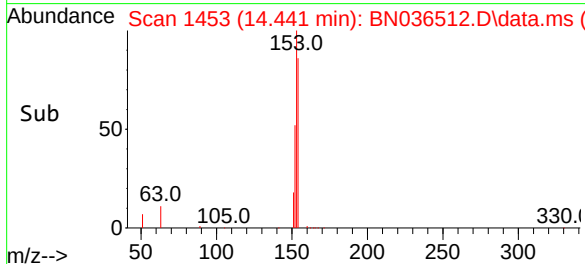
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:154 Resp: 408
Ion Ratio Lower Upper
154 100
153 115.4 93.3 139.9
152 60.6 48.8 73.2

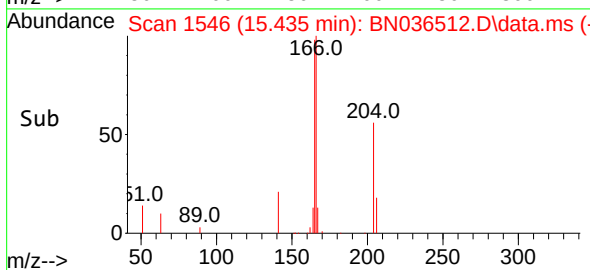
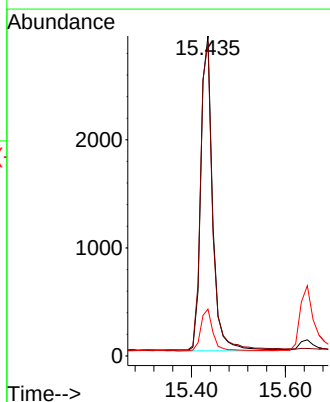
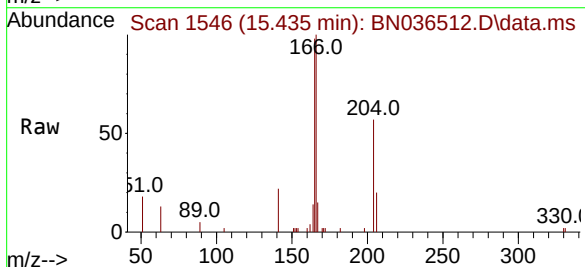
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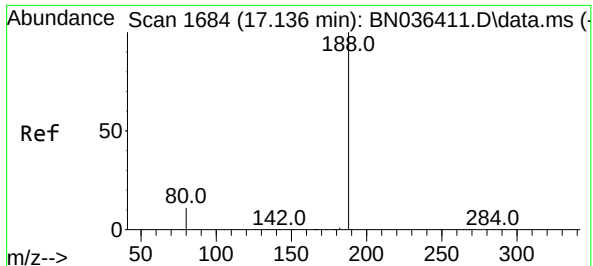
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#18
Fluorene
Concen: 0.395 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:166 Resp: 5322
Ion Ratio Lower Upper
166 100
165 98.2 79.5 119.3
167 13.2 10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.124 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS

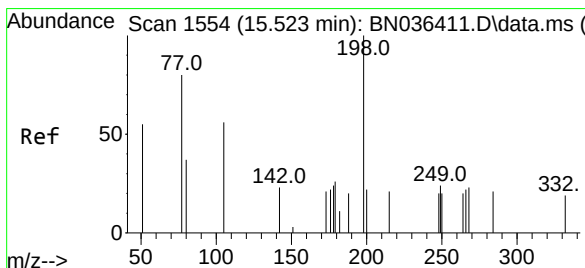
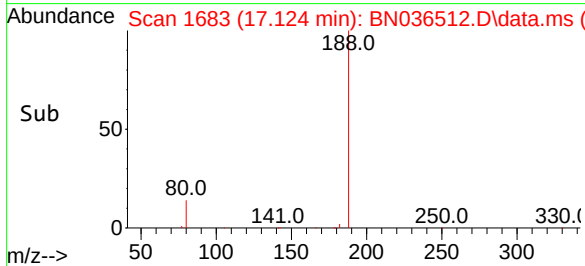
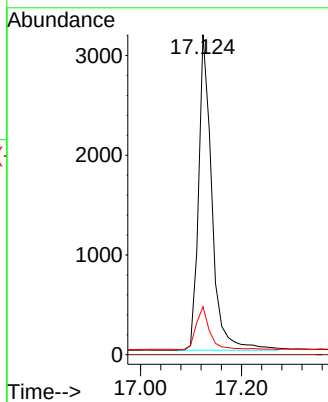
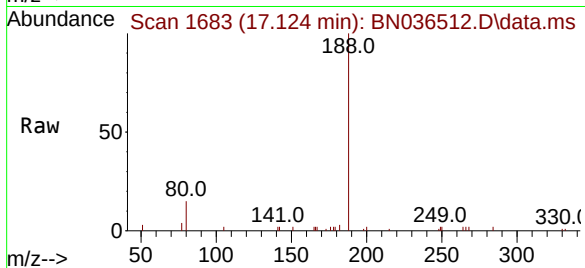
Tgt Ion:	188	Resp:	580
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.0	9.8	14.6

Manual Integrations

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Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.309 ng

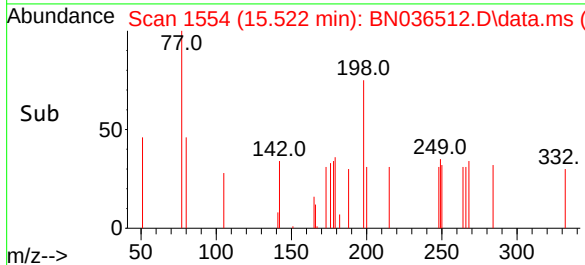
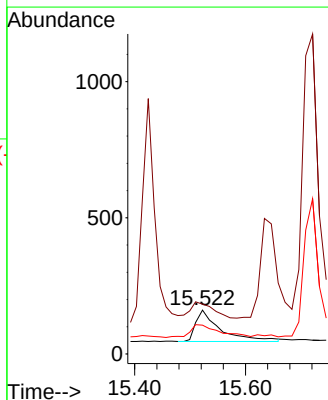
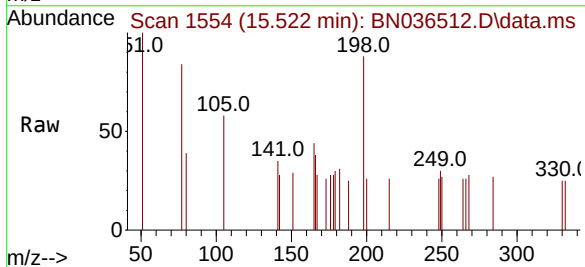
RT: 15.522 min Scan# 1554

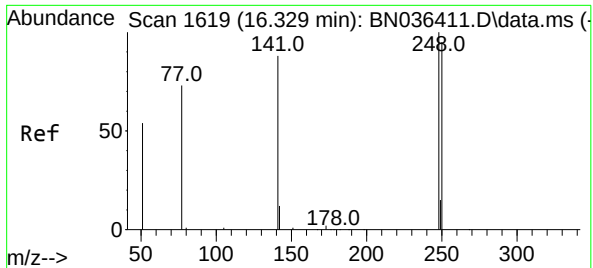
Delta R.T. -0.001 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

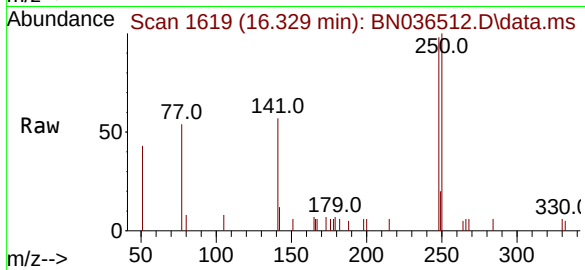
Tgt Ion:	198	Resp:	352
Ion Ratio	Lower	Upper	
198	100		
51	113.7	86.6	129.8
105	65.8	57.5	86.3





#21
4-Bromophenyl-phenylether
Concen: 0.443 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

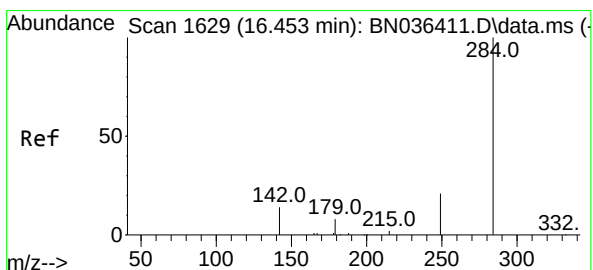
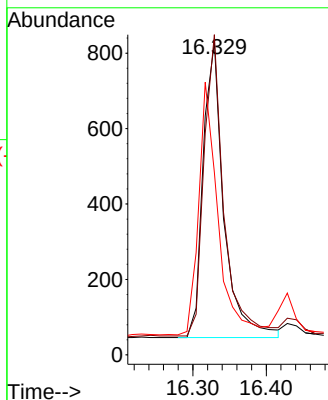
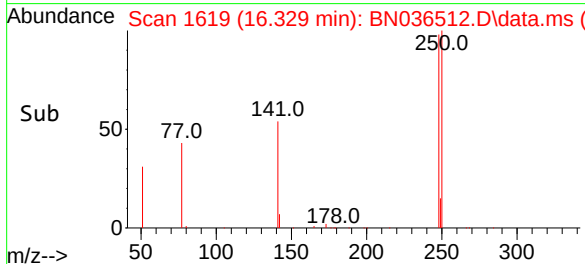
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:248 Resp: 153
Ion Ratio Lower Upper
248 100
250 102.4 76.1 114.1
141 58.4 71.7 107.5

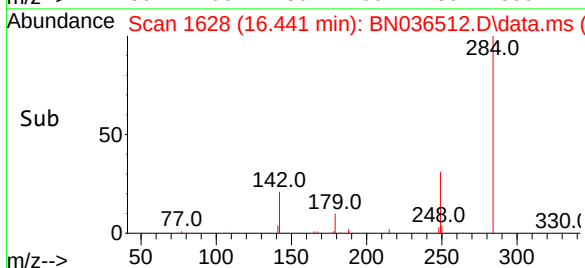
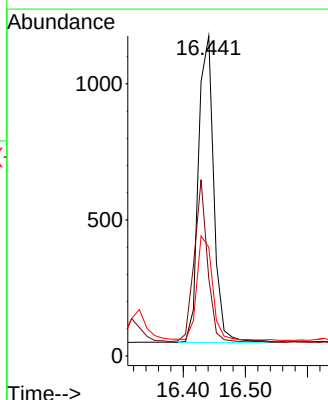
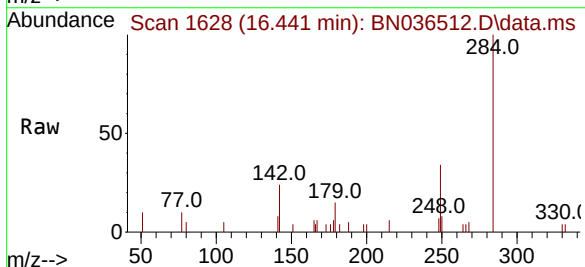
Manual Integrations
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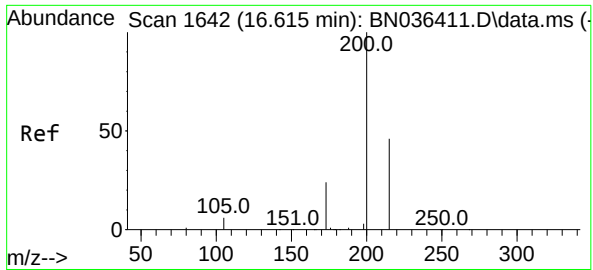
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#22
Hexachlorobenzene
Concen: 0.453 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

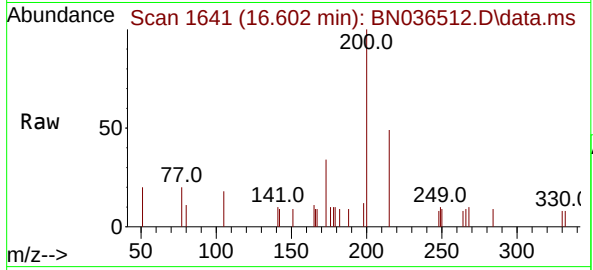
Tgt Ion:284 Resp: 1936
Ion Ratio Lower Upper
284 100
142 47.2 33.4 50.0
249 35.3 28.6 43.0





#23
Atrazine
Concen: 0.422 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

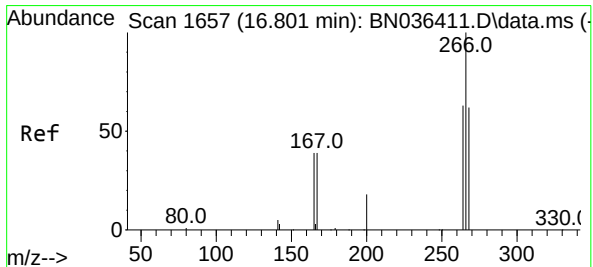
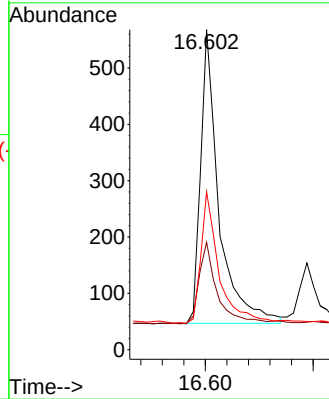
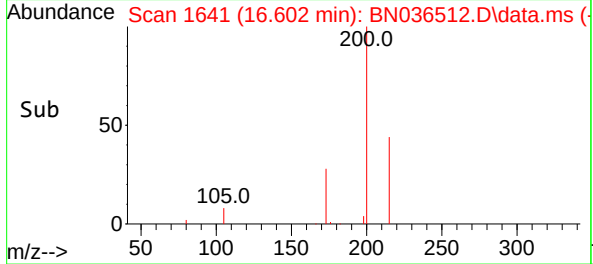
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:200 Resp: 1219
Ion Ratio Lower Upper
200 100
173 33.6 23.2 34.8
215 49.3 40.0 60.0

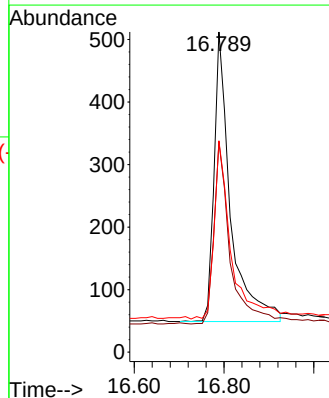
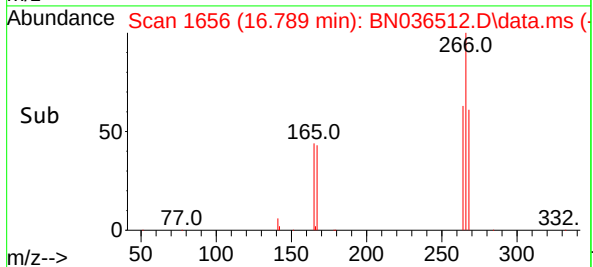
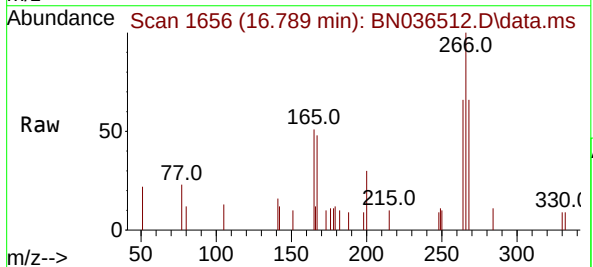
Manual Integrations
APPROVED

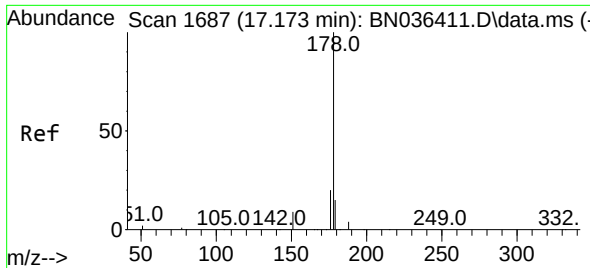
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#24
Pentachlorophenol
Concen: 0.578 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

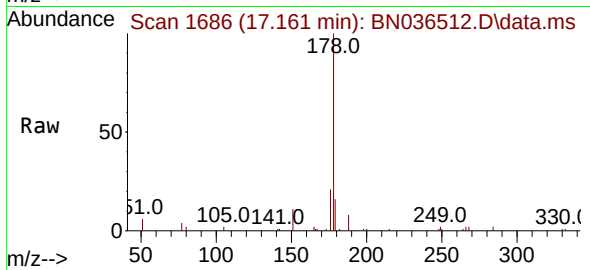
Tgt Ion:266 Resp: 1174
Ion Ratio Lower Upper
266 100
264 62.8 50.6 76.0
268 63.0 51.9 77.9





#25
Phenanthrene
Concen: 0.433 ng
RT: 17.161 min Scan# 1686
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

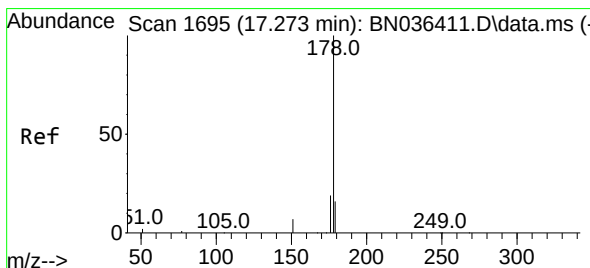
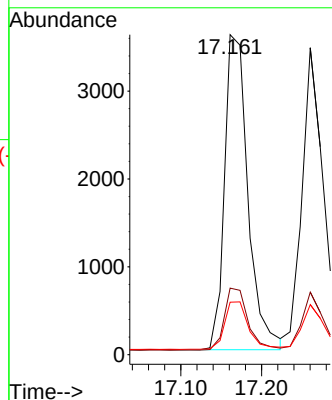
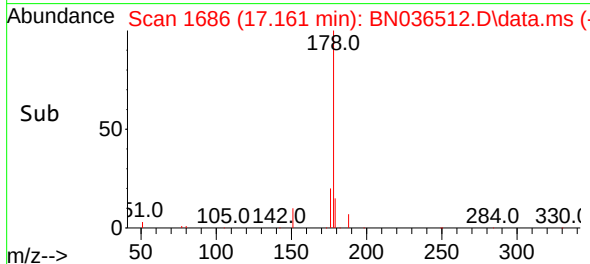
Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:178 Resp: 7250
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.6 12.4 18.6

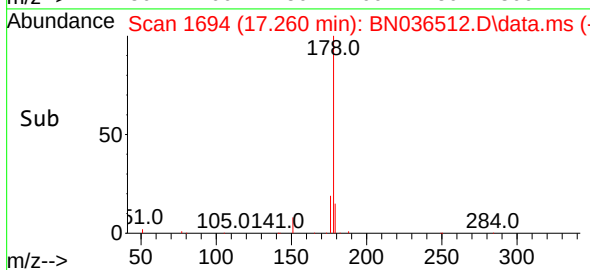
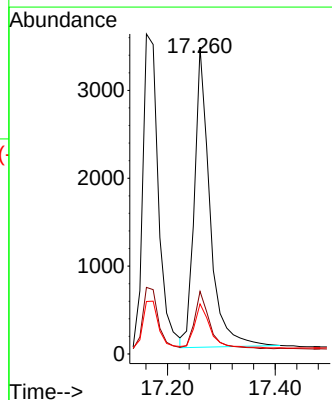
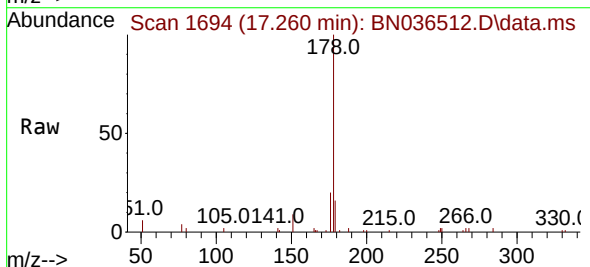
Manual Integrations
APPROVED

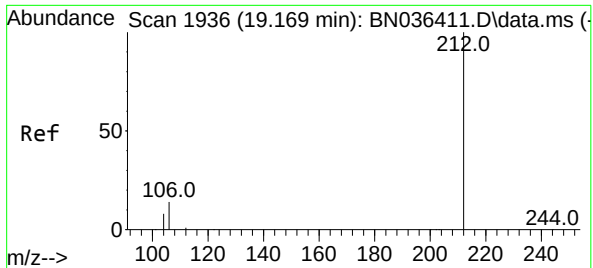
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#26
Anthracene
Concen: 0.460 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:178 Resp: 6809
Ion Ratio Lower Upper
178 100
176 19.1 14.9 22.3
179 15.3 12.4 18.6





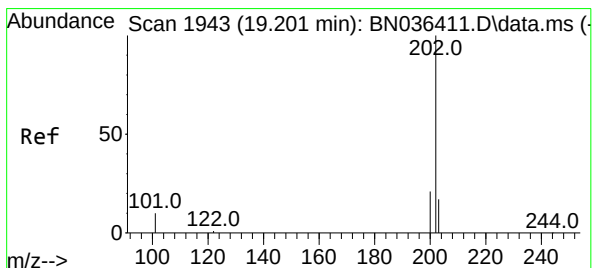
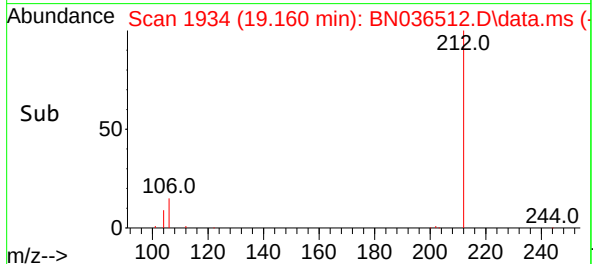
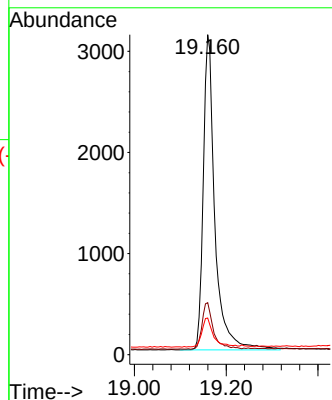
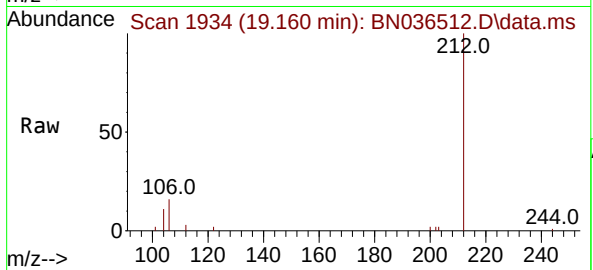
#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.160 min Scan# 1936
Delta R.T. -0.009 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Instrument :
BNA_N
ClientSampleId :
PB166876BS

Tgt Ion:212 Resp: 546
Ion Ratio Lower Upper
212 100
106 14.3 11.5 17.3
104 9.0 7.1 10.7

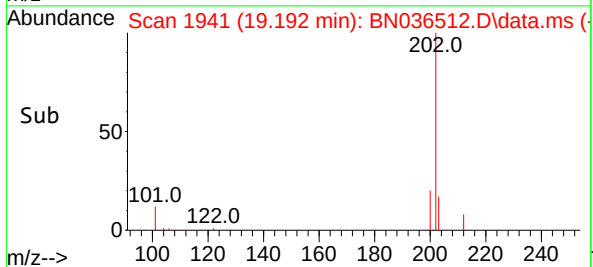
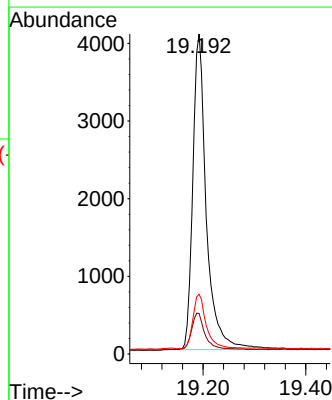
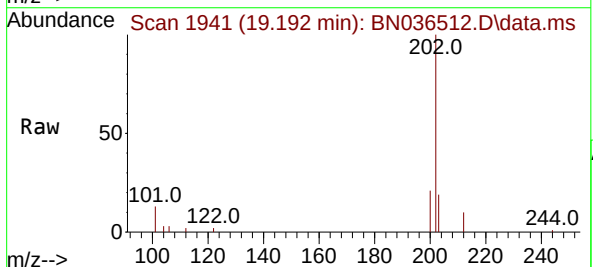
Manual Integrations
APPROVED

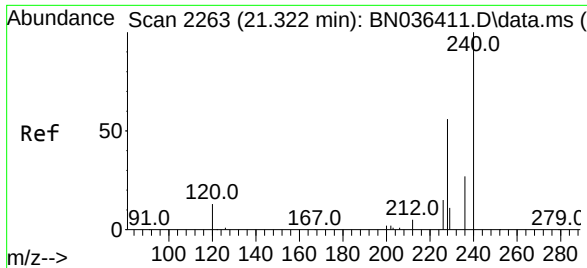
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#28
Fluoranthene
Concen: 0.363 ng
RT: 19.192 min Scan# 1941
Delta R.T. -0.009 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

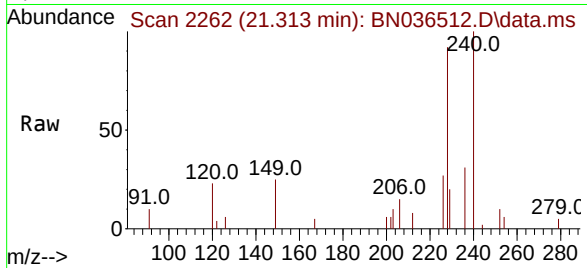
Tgt Ion:202 Resp: 7477
Ion Ratio Lower Upper
202 100
101 12.1 9.2 13.8
203 17.2 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

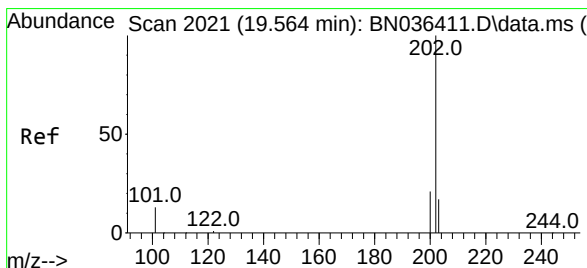
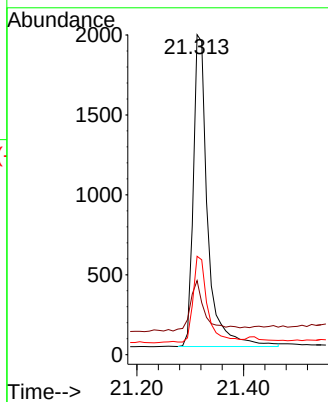
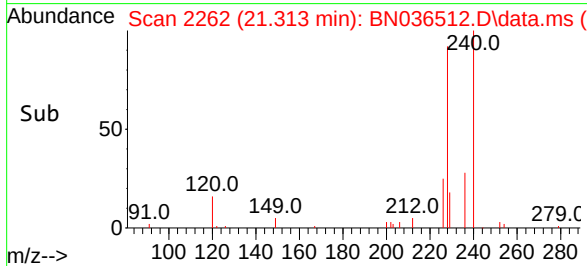
Instrument :
BNA_N
ClientSampleId :
PB166876BS



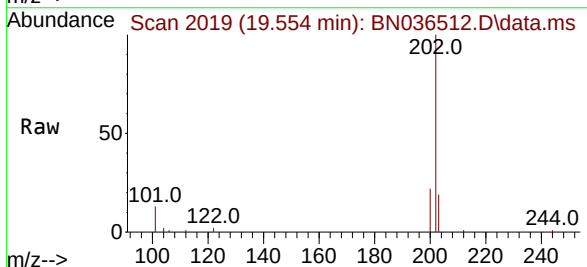
Tgt Ion:240 Resp: 365
Ion Ratio Lower Upper
240 100
120 23.2 13.3 19.9
236 30.8 23.0 34.6

Manual Integrations
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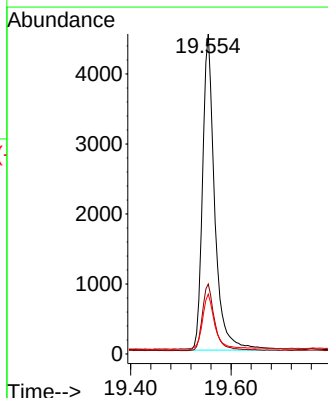
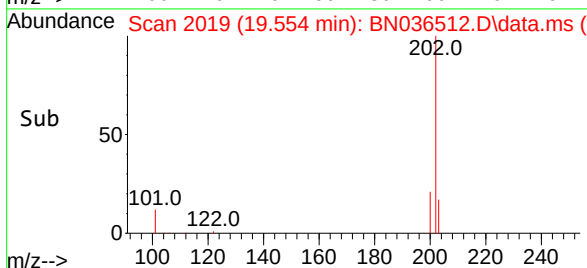
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

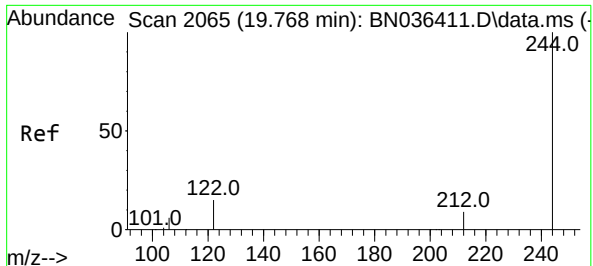


#30
Pyrene
Concen: 0.540 ng
RT: 19.554 min Scan# 2019
Delta R.T. -0.009 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07



Tgt Ion:202 Resp: 7603
Ion Ratio Lower Upper
202 100
200 21.2 16.9 25.3
203 18.0 13.9 20.9





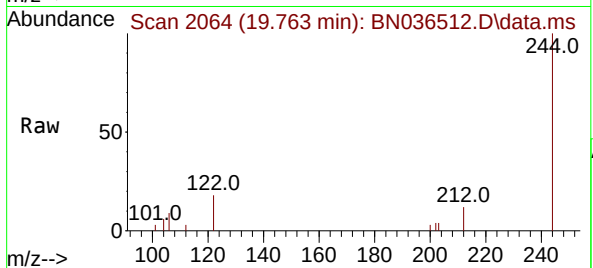
#31
Terphenyl-d14
Concen: 0.478 ng
RT: 19.763 min Scan# 2064
Delta R.T. -0.005 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS

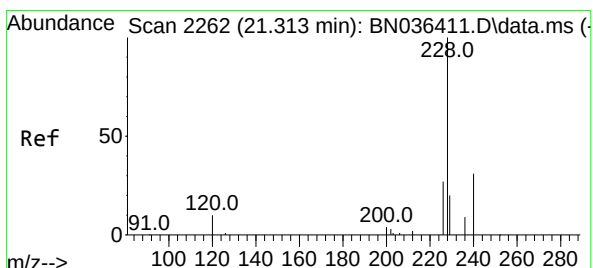
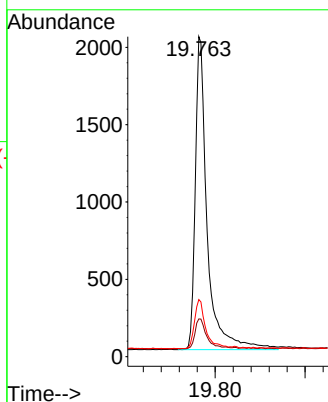
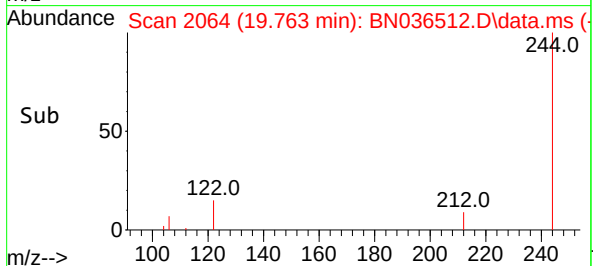


Tgt Ion:244 Resp: 3729
Ion Ratio Lower Upper
244 100
212 11.8 8.1 12.1
122 17.8 12.8 19.2

Manual Integrations

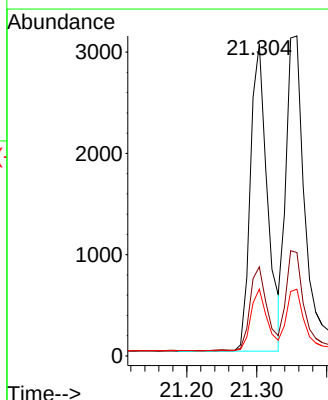
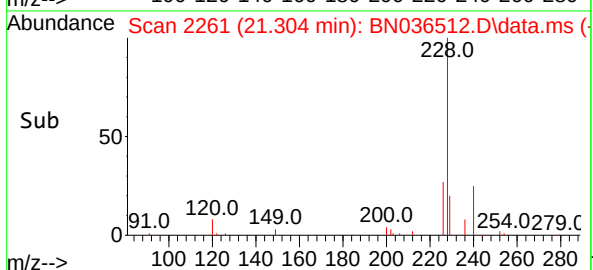
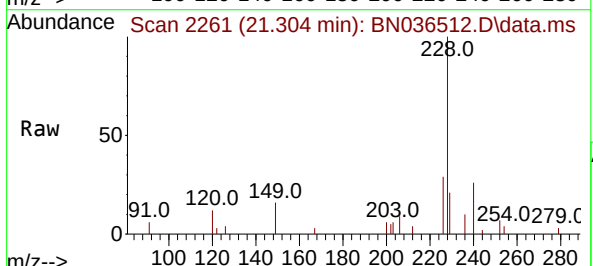
APPROVED

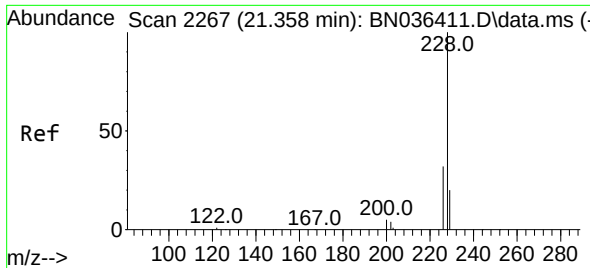
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#32
Benzo(a)anthracene
Concen: 0.425 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:228 Resp: 5112
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.2
229 21.4 16.5 24.7





#33

Chrysene

Concen: 0.459 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

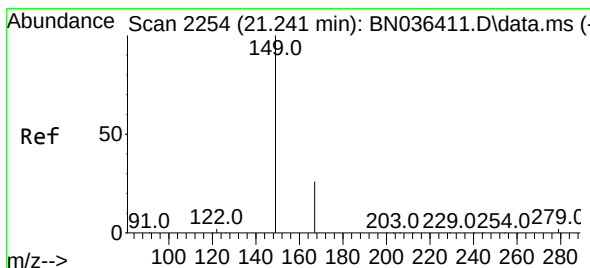
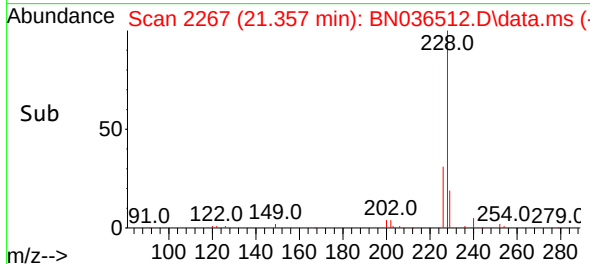
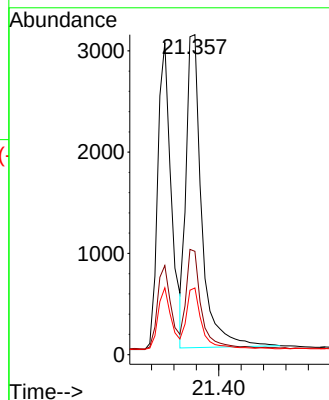
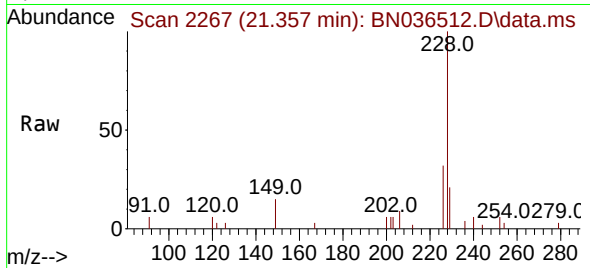
PB166876BS

Tgt Ion:	228	Resp:	597
Ion Ratio	Lower	Upper	
228	100		
226	32.3	25.5	38.3
229	20.8	16.4	24.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.467 ng

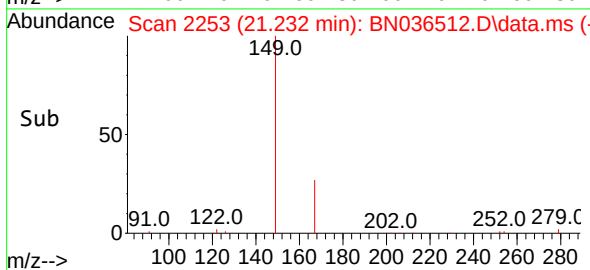
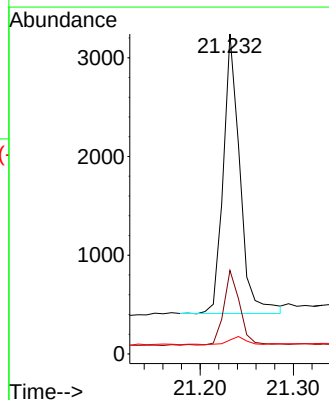
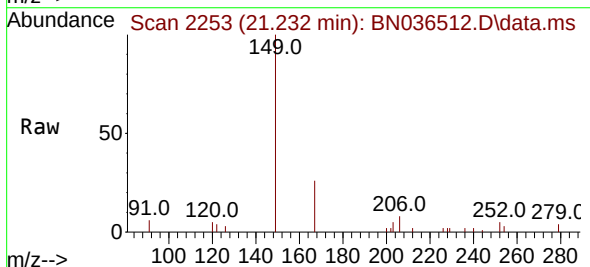
RT: 21.232 min Scan# 2253

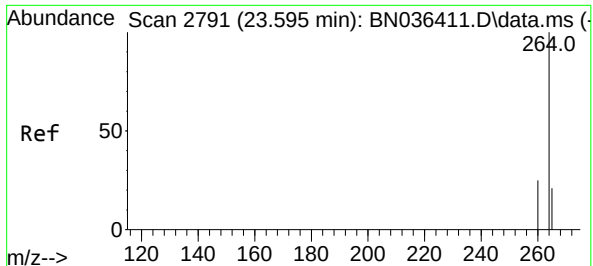
Delta R.T. -0.009 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Tgt Ion:	149	Resp:	3504
Ion Ratio	Lower	Upper	
149	100		
167	26.2	21.2	31.8
279	2.9	2.7	4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.584 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036512.D

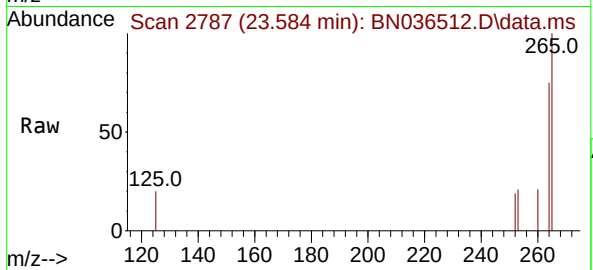
Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS



Tgt Ion:264 Resp: 328

Ion Ratio Lower Upper

264 100

260 27.8 20.9 31.3

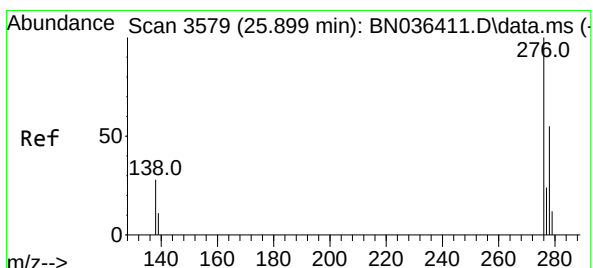
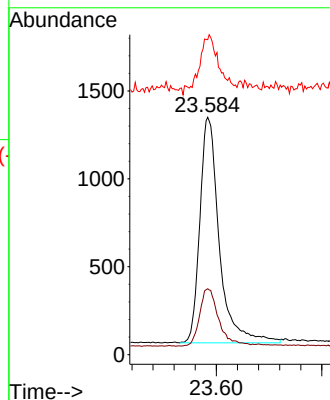
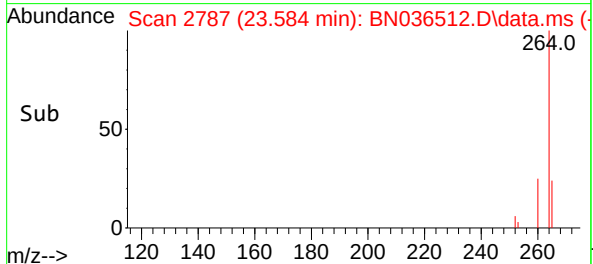
265 132.7 60.7 91.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.481 ng

RT: 25.884 min Scan# 3574

Delta R.T. -0.015 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

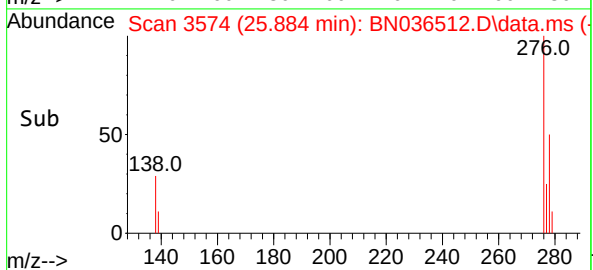
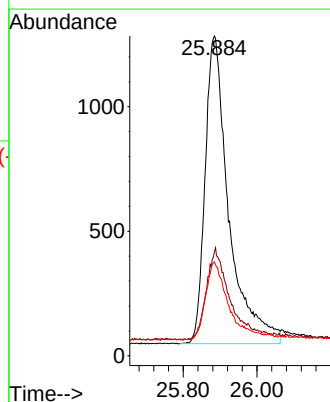
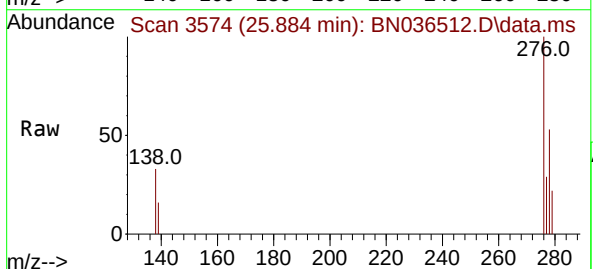
Tgt Ion:276 Resp: 5525

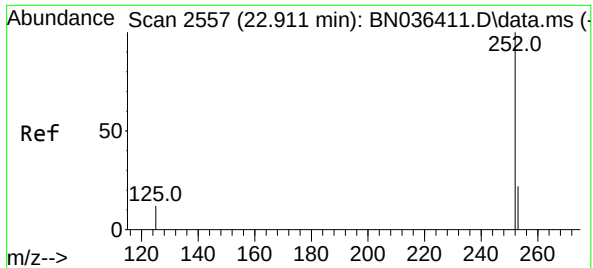
Ion Ratio Lower Upper

276 100

138 27.6 22.2 33.2

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.435 ng

RT: 22.899 min Scan# 2553

Delta R.T. -0.012 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS

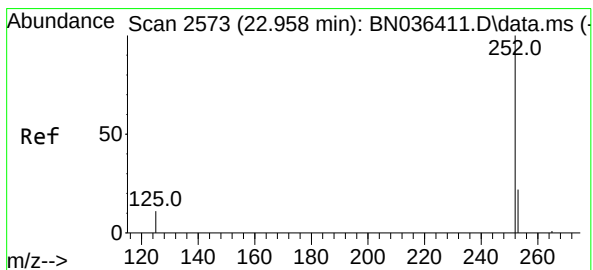
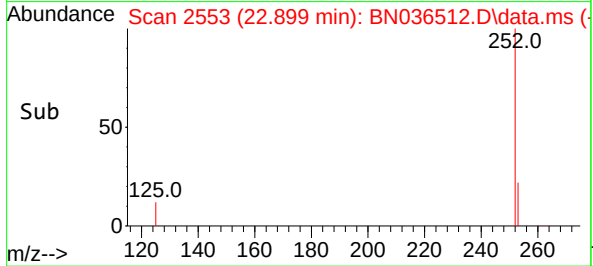
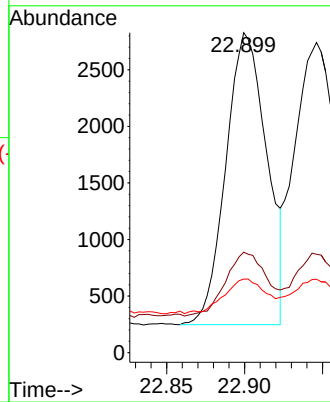
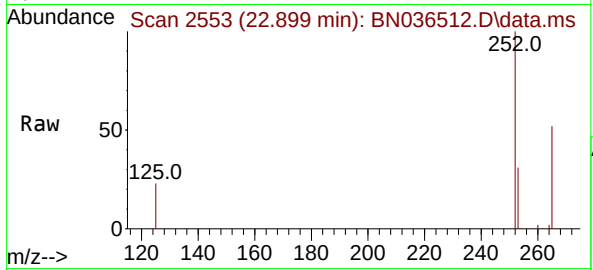
Tgt Ion:	252	Resp:	470
Ion Ratio	Lower	Upper	
252	100		
253	31.4	21.9	32.9
125	23.0	15.0	22.6

Manual Integrations

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Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#38

Benzo(k)fluoranthene

Concen: 0.494 ng

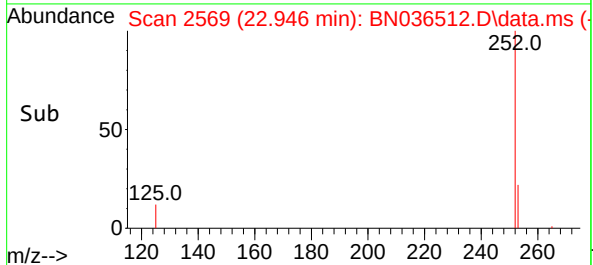
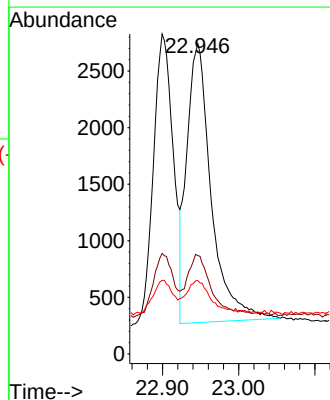
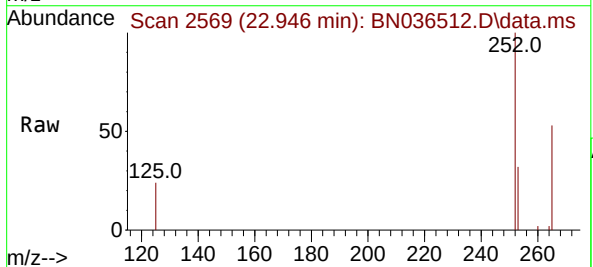
RT: 22.946 min Scan# 2569

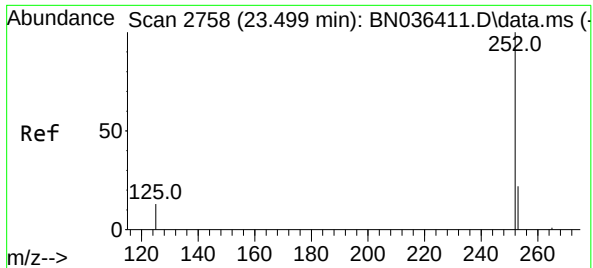
Delta R.T. -0.012 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Tgt Ion:	252	Resp:	5500
Ion Ratio	Lower	Upper	
252	100		
253	31.7	22.2	33.4
125	23.7	15.0	22.4





#39

Benzo(a)pyrene

Concen: 0.495 ng

RT: 23.487 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036512.D

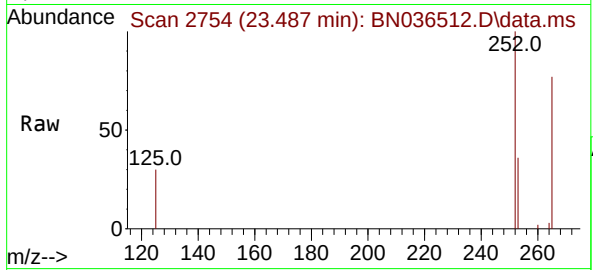
Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS



Tgt Ion:252 Resp: 4670

Ion Ratio Lower Upper

252 100

253 36.4 24.4 36.6

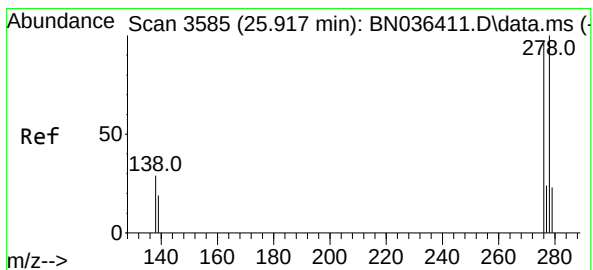
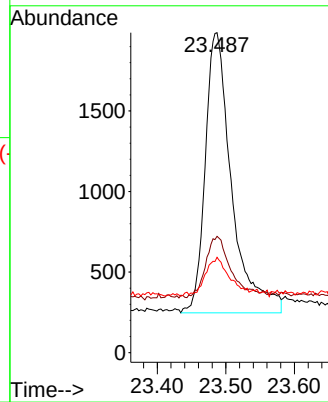
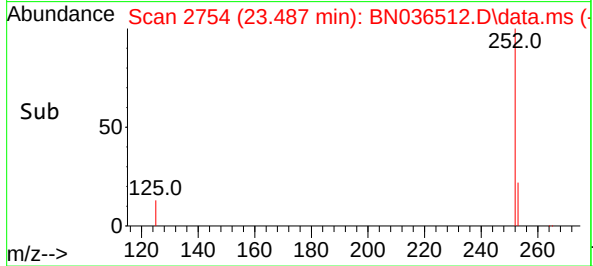
125 29.8 18.2 27.2

Manual Integrations

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Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#40

Dibenzo(a,h)anthracene

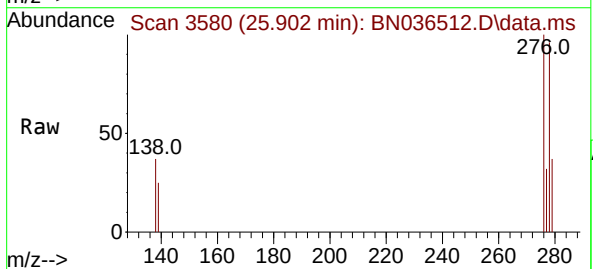
Concen: 0.455 ng

RT: 25.902 min Scan# 3580

Delta R.T. -0.015 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07



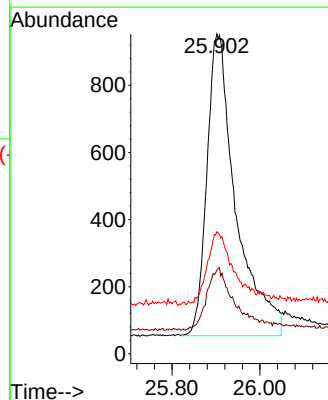
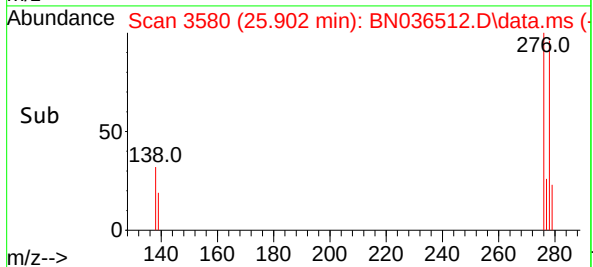
Tgt Ion:278 Resp: 4122

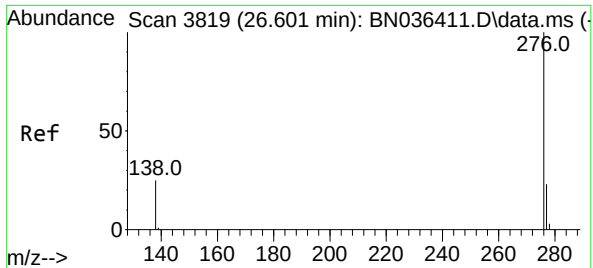
Ion Ratio Lower Upper

278 100

139 26.2 18.5 27.7

279 38.2 24.8 37.2





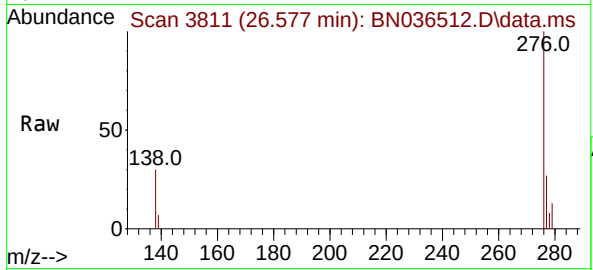
#41
Benzo(g,h,i)perylene
Concen: 0.436 ng
RT: 26.577 min Scan# 3811
Delta R.T. -0.023 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS



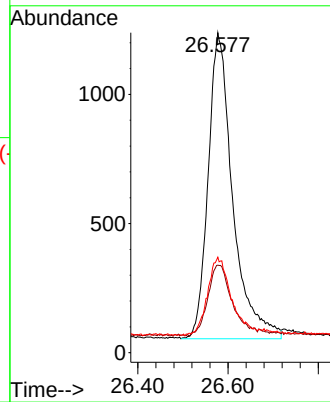
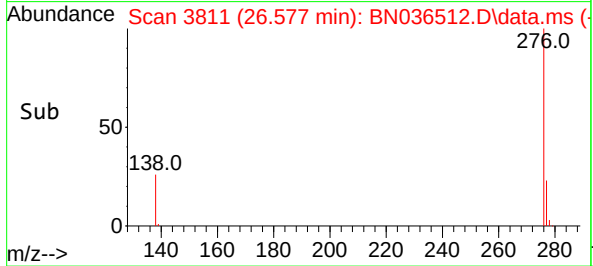
Tgt Ion:276 Resp: 448
Ion Ratio Lower Upper
276 100
277 27.4 20.7 31.1
138 29.9 21.8 32.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	CTO WE13	Date Received:	
Client Sample ID:	PB166876BSD	SDG No.:	Q1423
Lab Sample ID:	PB166876BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036513.D	1	02/26/25 08:52	02/26/25 16:44	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		106%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.51	*	53 - 106		127%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2480	7.739				
1146-65-2	Naphthalene-d8	5550	10.53				
15067-26-2	Acenaphthene-d10	2910	14.377				
1517-22-2	Phenanthrene-d10	5250	17.124				
1719-03-5	Chrysene-d12	3330	21.313				
1520-96-3	Perylene-d12	2990	23.583				

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\BN022625\
 Data File : BN036513.D
 Acq On : 26 Feb 2025 16:44
 Operator : RC/JU
 Sample : PB166876BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166876BSD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 02/27/2025
 Supervised By :mohammad ahmed 02/28/2025

Quant Time: Feb 26 17:08:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2476	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5554	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	2910	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	5252	0.400	ng	#-0.01
29) Chrysene-d12	21.313	240	3329	0.400	ng	# 0.00
35) Perylene-d12	23.583	264	2986	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2191	0.374	ng	-0.01
5) Phenol-d6	6.923	99	2453	0.357	ng	-0.01
8) Nitrobenzene-d5	8.896	82	2140	0.390	ng	-0.01
11) 2-Methylnaphthalene-d10	12.126	152	3618m	0.424	ng	-0.02
14) 2,4,6-Tribromophenol	15.882	330	413	0.286	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	5561	0.508	ng	-0.01
27) Fluoranthene-d10	19.160	212	4937	0.338	ng	0.00
31) Terphenyl-d14	19.768	244	3361	0.473	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.261	88	1012	0.374	ng	# 64
3) n-Nitrosodimethylamine	3.564	42	2128	0.452	ng	# 90
6) bis(2-Chloroethyl)ether	7.168	93	2692	0.375	ng	99
9) Naphthalene	10.583	128	6389	0.399	ng	99
10) Hexachlorobutadiene	10.872	225	1621	0.416	ng	# 100
12) 2-Methylnaphthalene	12.202	142	3889	0.370	ng	98
16) Acenaphthylene	14.099	152	6135	0.477	ng	99
17) Acenaphthene	14.441	154	3815	0.444	ng	99
18) Fluorene	15.435	166	4829	0.395	ng	98
20) 4,6-Dinitro-2-methylph...	15.522	198	284	0.276	ng	# 81
21) 4-Bromophenyl-phenylether	16.329	248	1401	0.447	ng	# 83
22) Hexachlorobenzene	16.441	284	1790	0.463	ng	96
23) Atrazine	16.602	200	1070	0.409	ng	# 95
24) Pentachlorophenol	16.788	266	1005	0.547	ng	99
25) Phenanthrene	17.173	178	6582	0.434	ng	99
26) Anthracene	17.260	178	6077	0.454	ng	100
28) Fluoranthene	19.192	202	6786	0.364	ng	99
30) Pyrene	19.554	202	6905	0.539	ng	99
32) Benzo(a)anthracene	21.304	228	4649	0.424	ng	99
33) Chrysene	21.348	228	5551	0.468	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	3065	0.449	ng	100
36) Indeno(1,2,3-cd)pyrene	25.881	276	5305	0.508	ng	98
37) Benzo(b)fluoranthene	22.899	252	4341	0.441	ng	# 88
38) Benzo(k)fluoranthene	22.943	252	5111	0.505	ng	# 91
39) Benzo(a)pyrene	23.484	252	4229	0.493	ng	# 86
40) Dibenzo(a,h)anthracene	25.902	278	3859	0.469	ng	# 90
41) Benzo(g,h,i)perylene	26.580	276	4322	0.463	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036513.D
 Acq On : 26 Feb 2025 16:44
 Operator : RC/JU
 Sample : PB166876BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB166876BSD

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025

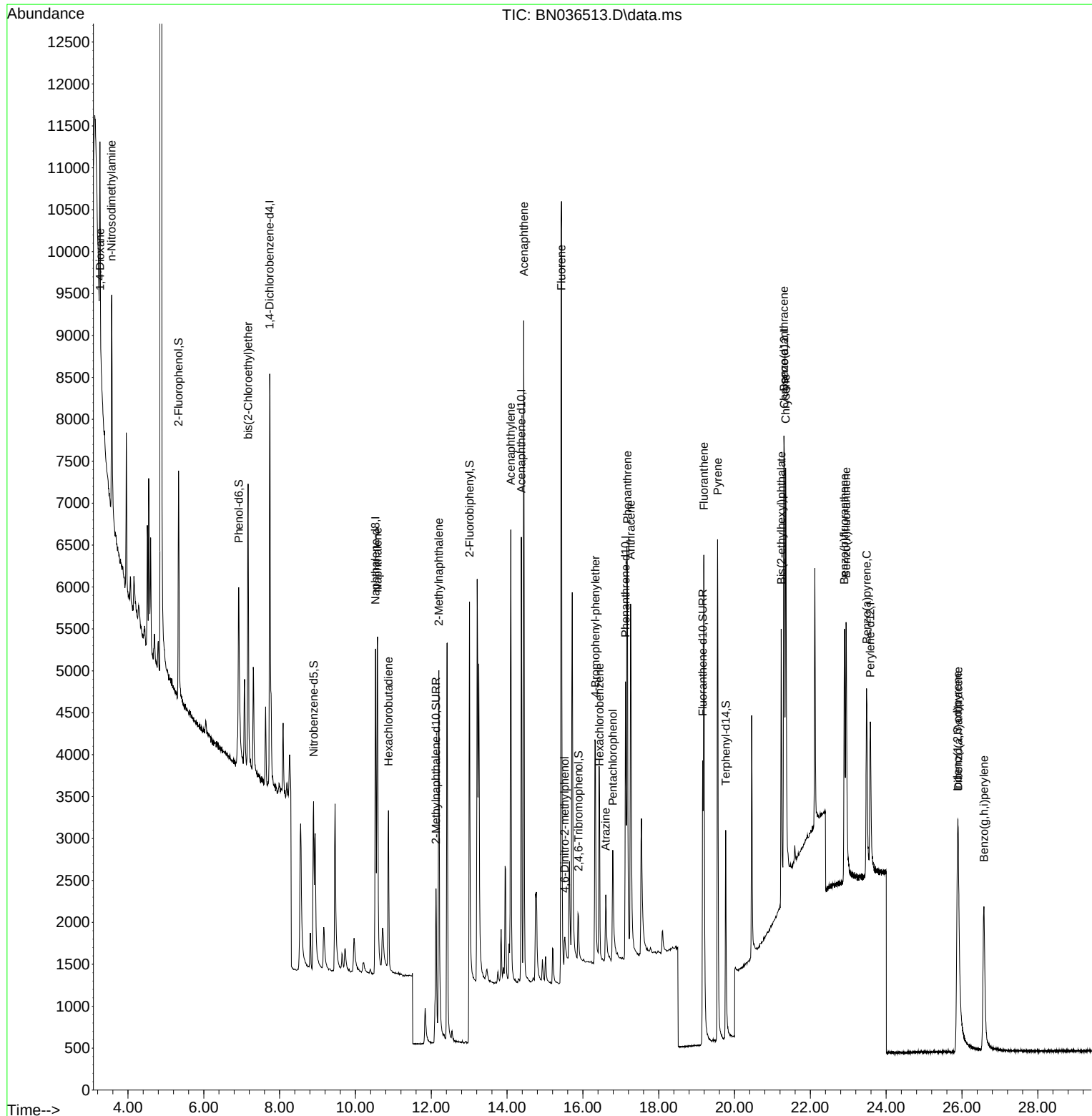
Quant Time: Feb 26 17:08:47 2025

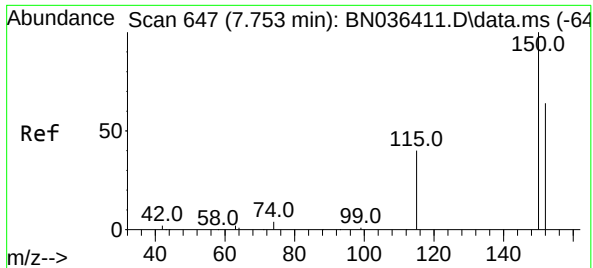
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Feb 11 01:17:14 2025

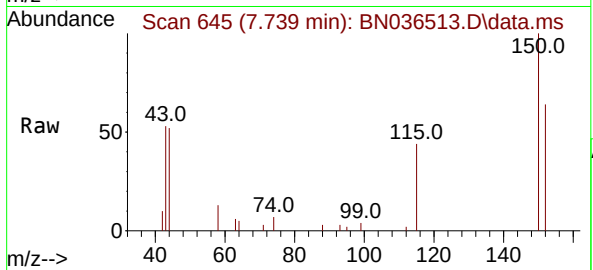
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

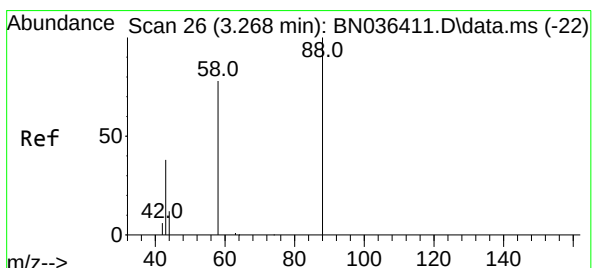
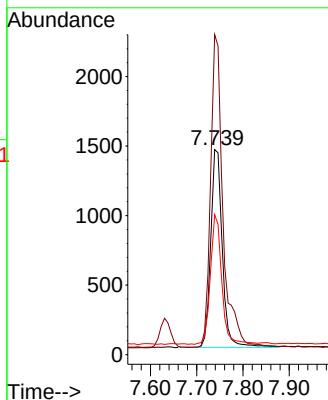
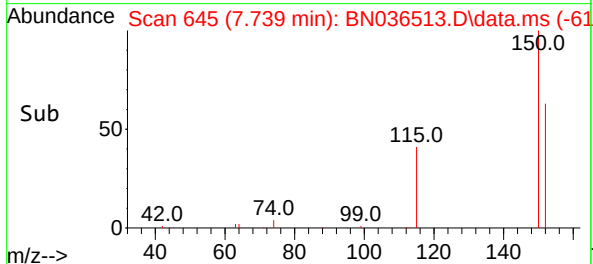
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion: 152 Resp: 2470
Ion Ratio Lower Upper
152 100
150 156.0 123.7 185.5
115 68.3 52.5 78.7

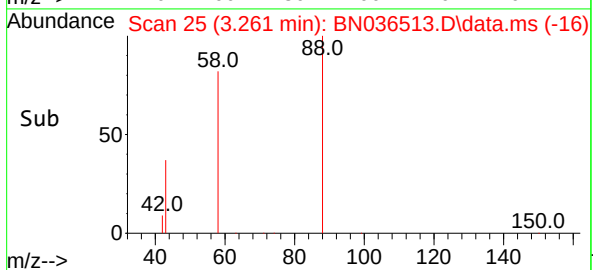
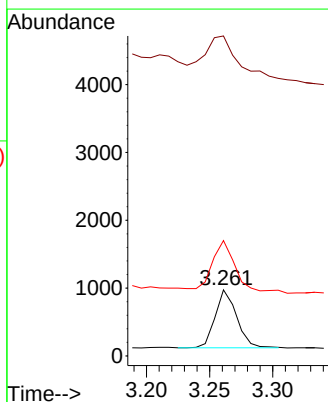
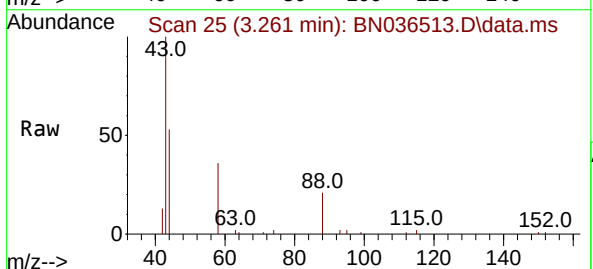
Manual Integrations
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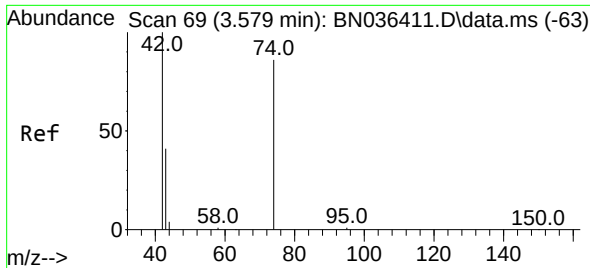
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#2
1,4-Dioxane
Concen: 0.374 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

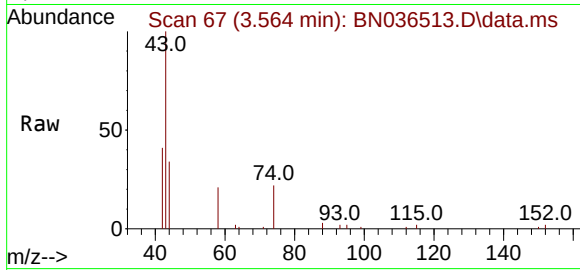
Tgt Ion: 88 Resp: 1012
Ion Ratio Lower Upper
88 100
43 110.8 33.7 50.5#
58 85.6 68.9 103.3





#3
n-Nitrosodimethylamine
Concen: 0.452 ng
RT: 3.564 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

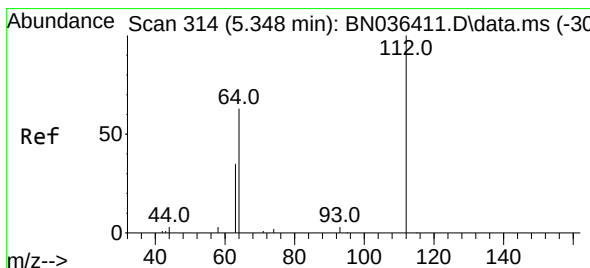
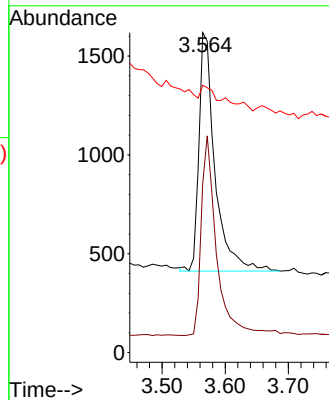
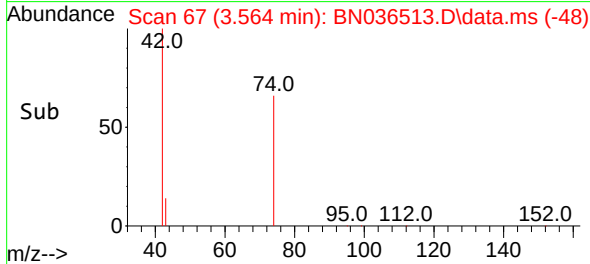
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion: 42 Resp: 2128
Ion Ratio Lower Upper
42 100
74 80.4 71.8 107.6
44 14.5 7.8 11.6

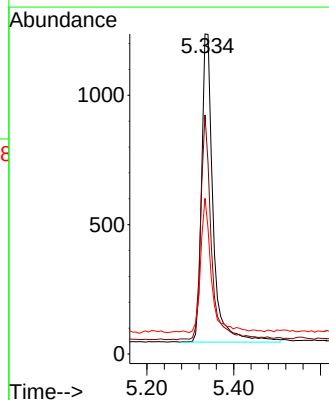
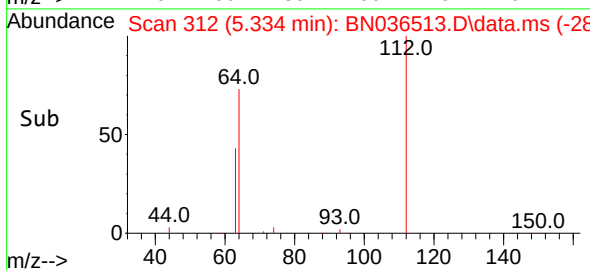
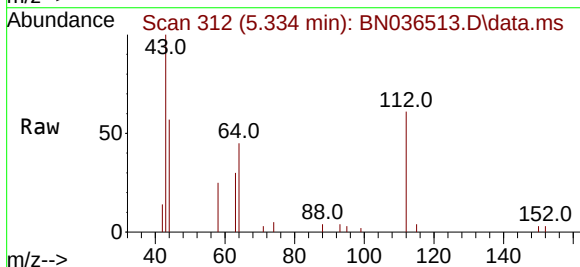
Manual Integrations
APPROVED

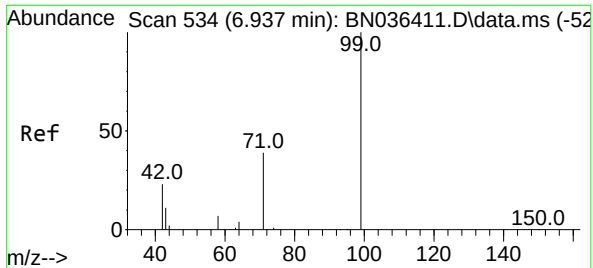
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#4
2-Fluorophenol
Concen: 0.374 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:112 Resp: 2191
Ion Ratio Lower Upper
112 100
64 66.8 53.4 80.0
63 40.1 30.3 45.5





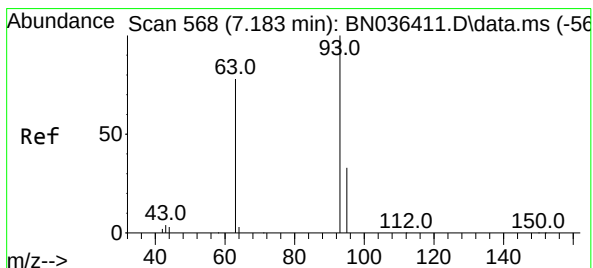
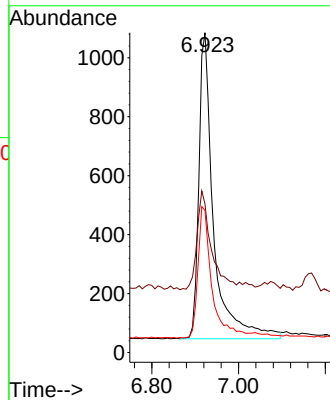
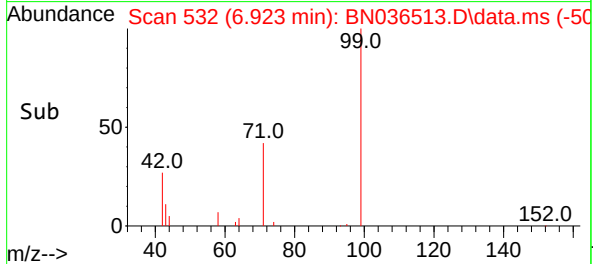
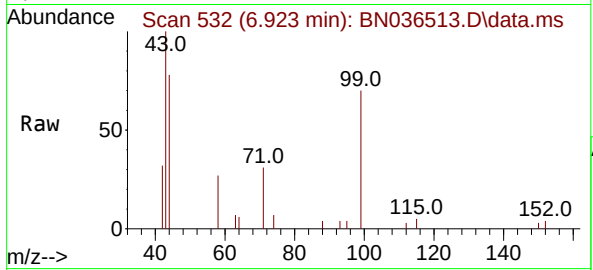
#5
Phenol-d6
Concen: 0.357 ng
RT: 6.923 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Instrument :
BNA_N
ClientSampleId :
PB166876BSD

Tgt Ion: 99 Resp: 245
Ion Ratio Lower Upper
99 100
42 31.2 21.7 32.5
71 40.7 32.6 49.0

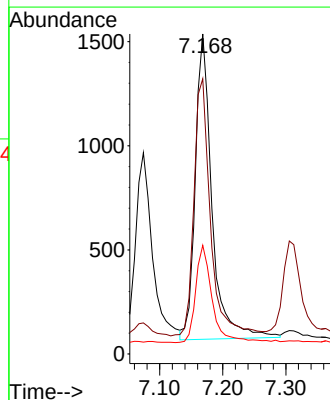
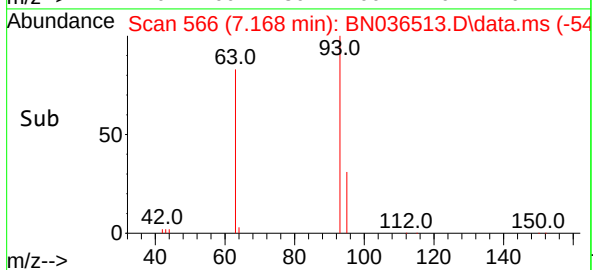
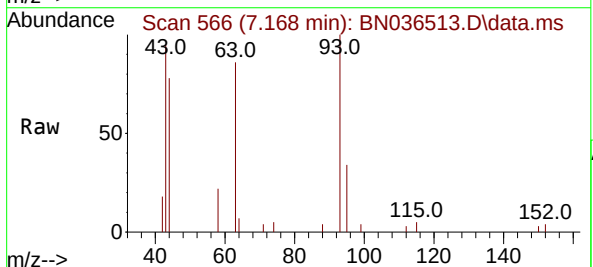
Manual Integrations
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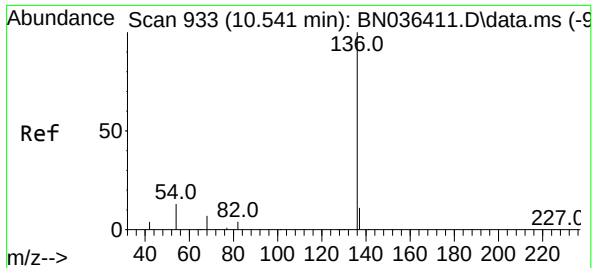
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.168 min Scan# 566
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion: 93 Resp: 2692
Ion Ratio Lower Upper
93 100
63 83.8 66.3 99.5
95 31.9 26.2 39.4





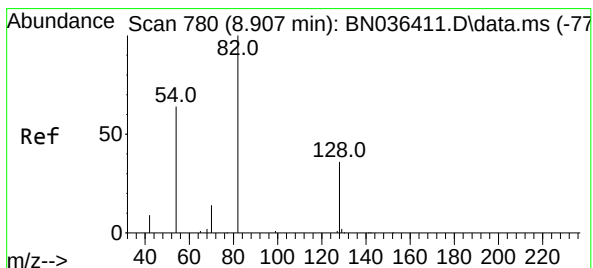
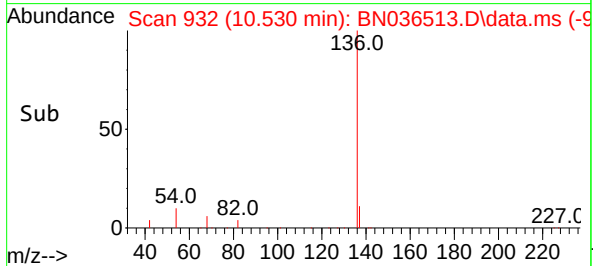
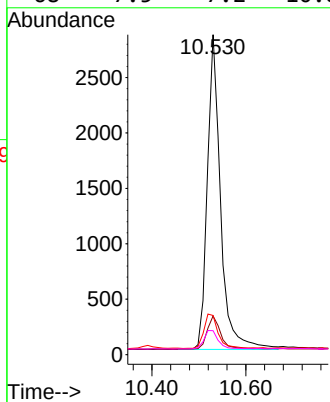
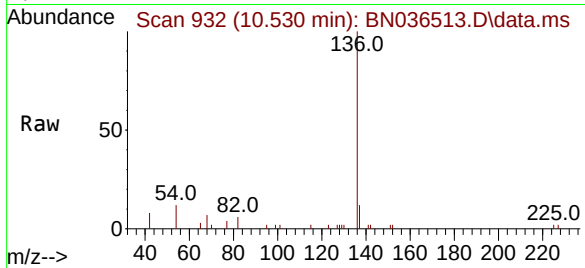
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Instrument :
BNA_N
ClientSampleId :
PB166876BSD

Tgt Ion:136 Resp: 555
Ion Ratio Lower Upper
136 100
137 12.1 10.1 15.1
54 12.2 11.8 17.6
68 7.5 7.2 10.8

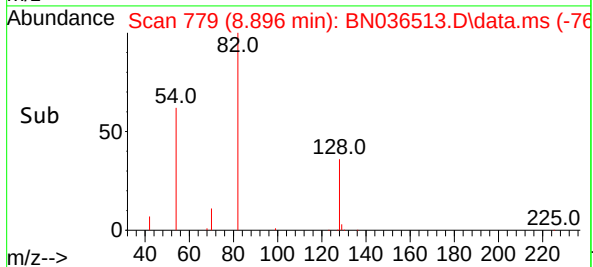
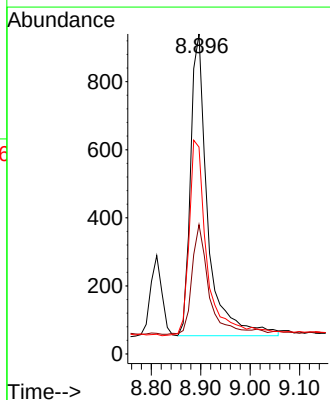
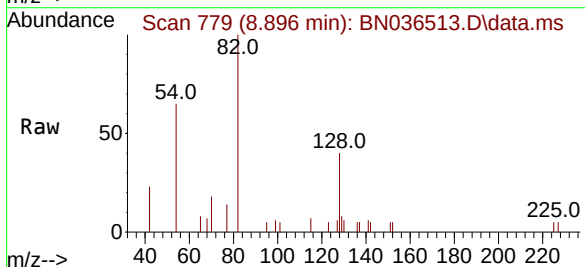
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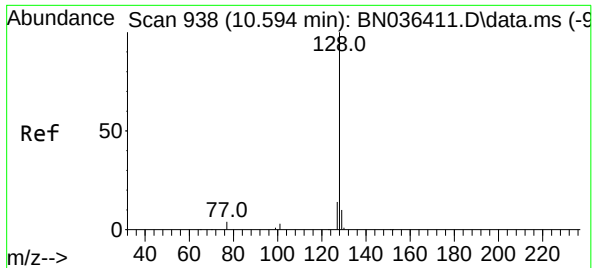
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.896 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion: 82 Resp: 2140
Ion Ratio Lower Upper
82 100
128 40.4 31.9 47.9
54 64.7 53.1 79.7





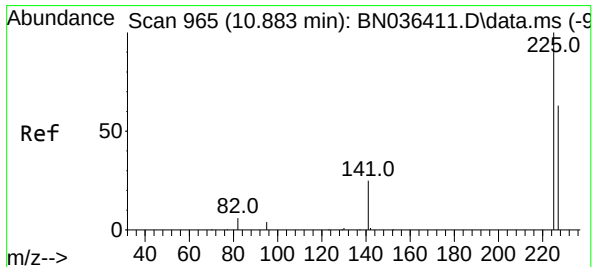
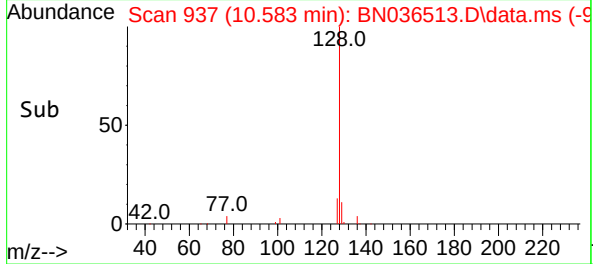
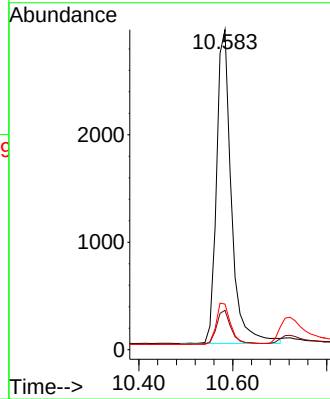
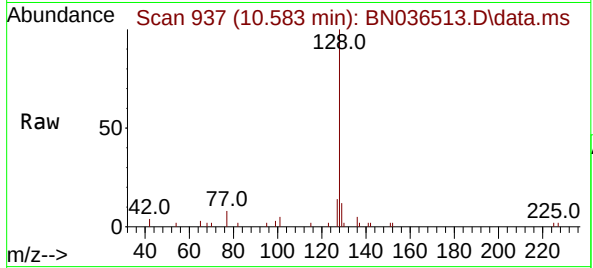
#9
Naphthalene
Concen: 0.399 ng
RT: 10.583 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Instrument :
BNA_N
ClientSampleId :
PB166876BSD

Tgt Ion:128 Resp: 6389
Ion Ratio Lower Upper
128 100
129 12.3 9.6 14.4
127 14.2 12.0 18.0

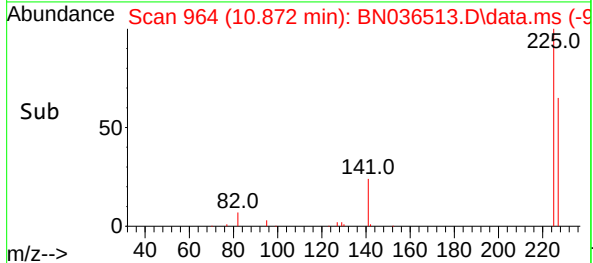
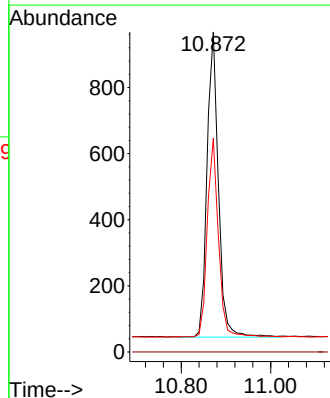
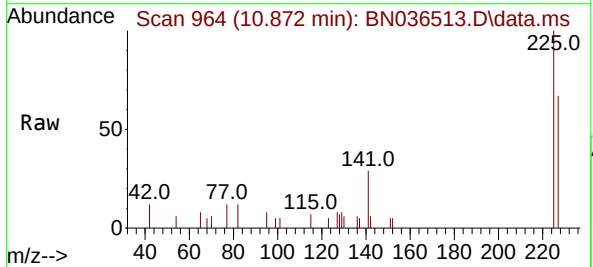
Manual Integrations
APPROVED

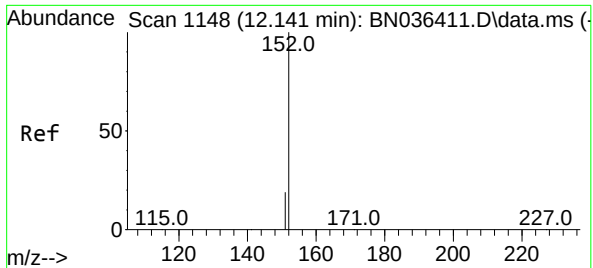
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:225 Resp: 1621
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.9 76.3





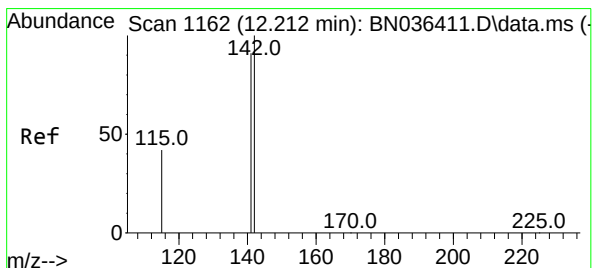
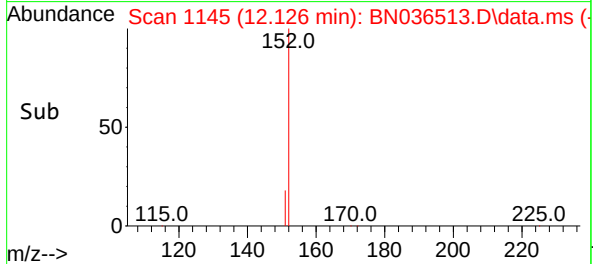
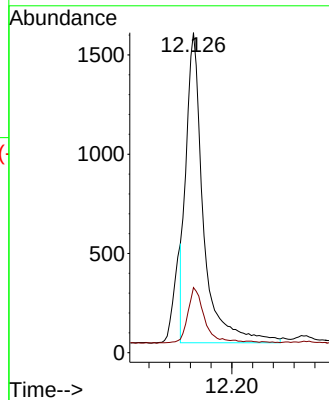
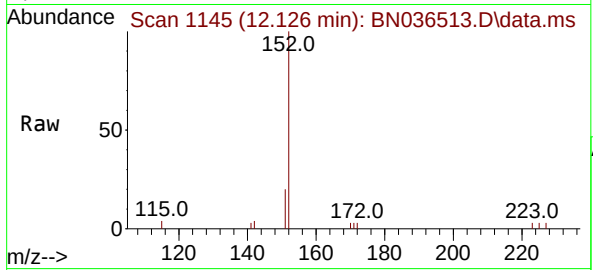
#11
2-Methylnaphthalene-d10
Concen: 0.424 ng m
RT: 12.126 min Scan# 1145
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Instrument :
BNA_N
ClientSampleId :
PB166876BSD

Tgt Ion:152 Resp: 3618
Ion Ratio Lower Upper
152 100
151 17.6 16.6 25.0

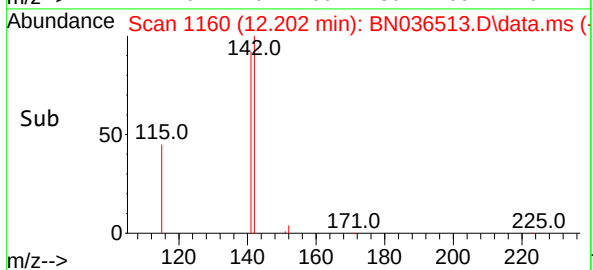
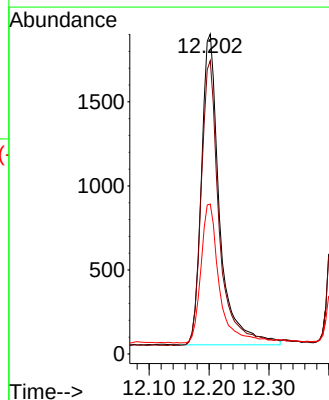
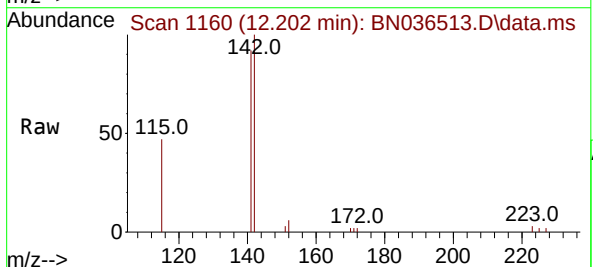
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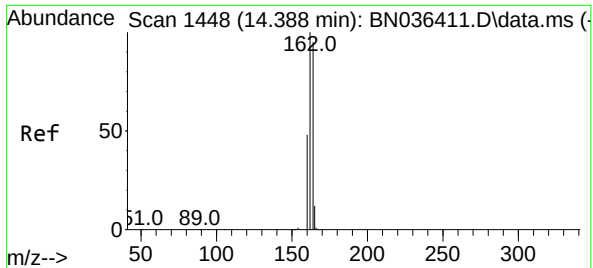
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#12
2-Methylnaphthalene
Concen: 0.370 ng
RT: 12.202 min Scan# 1160
Delta R.T. -0.010 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

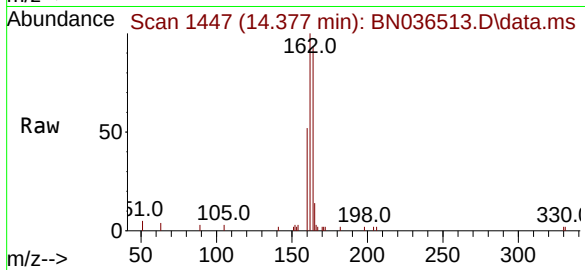
Tgt Ion:142 Resp: 3889
Ion Ratio Lower Upper
142 100
141 91.6 72.8 109.2
115 46.8 35.5 53.3





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

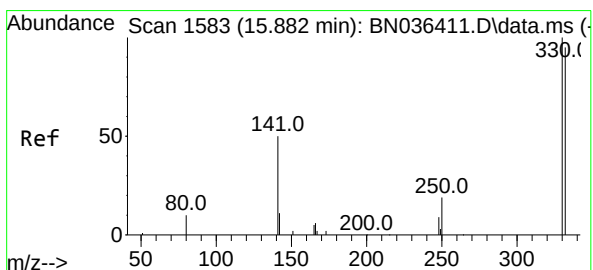
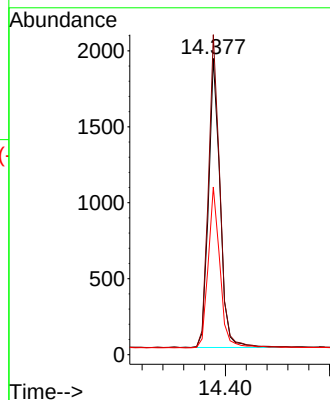
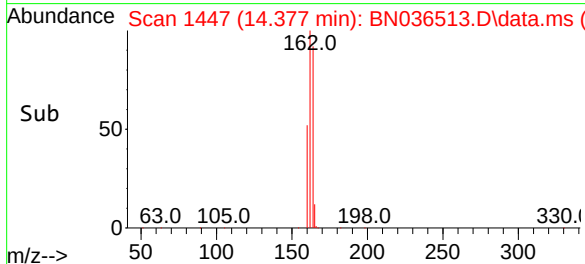
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



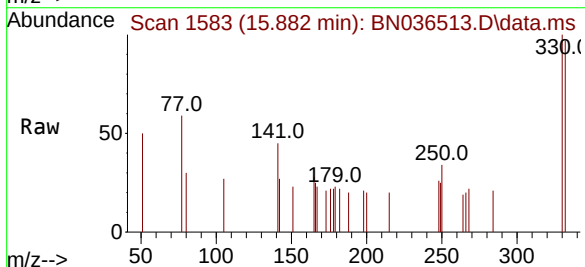
Tgt Ion:164 Resp: 2910
Ion Ratio Lower Upper
164 100
162 108.1 84.1 126.1
160 56.6 41.4 62.0

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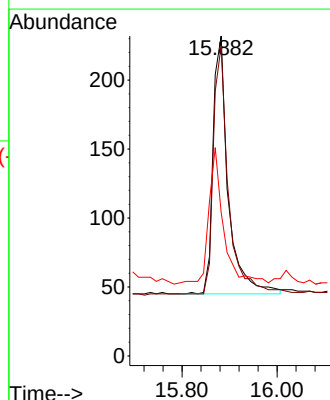
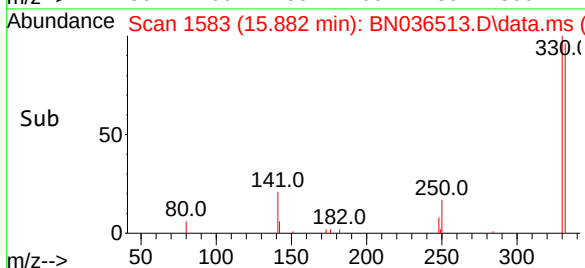
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

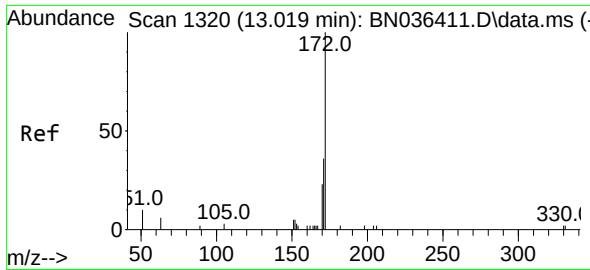


#14
2,4,6-Tribromophenol
Concen: 0.286 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44



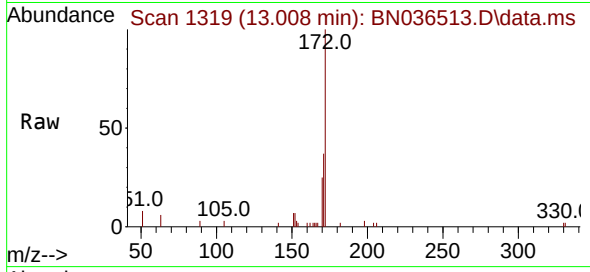
Tgt Ion:330 Resp: 413
Ion Ratio Lower Upper
330 100
332 95.6 76.6 114.8
141 51.8 37.8 56.8





#15
2-Fluorobiphenyl
Concen: 0.508 ng
RT: 13.008 min Scan# 1319
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

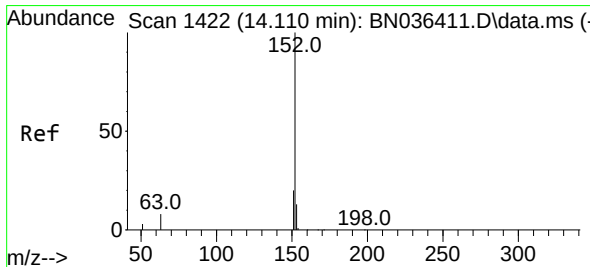
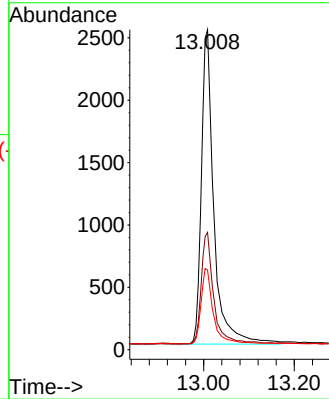
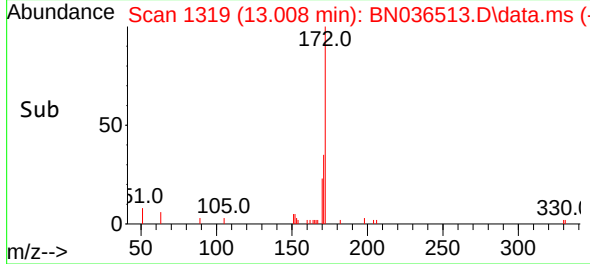
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:172 Resp: 556
Ion Ratio Lower Upper
172 100
171 36.7 29.6 44.4
170 24.9 19.8 29.6

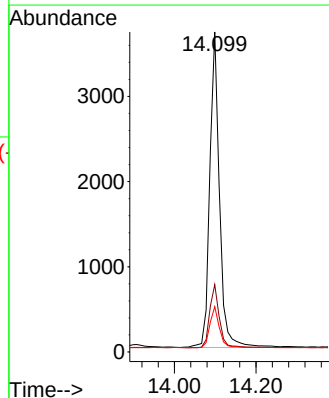
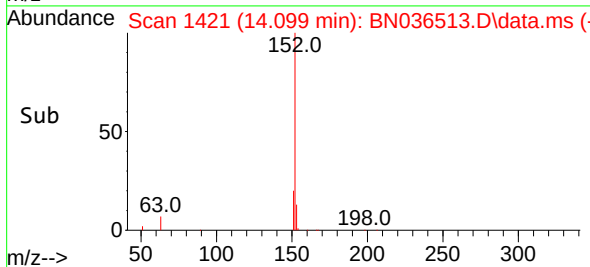
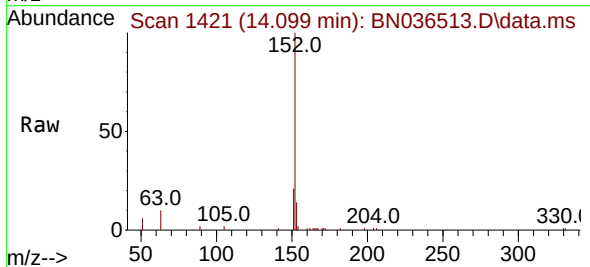
Manual Integrations
APPROVED

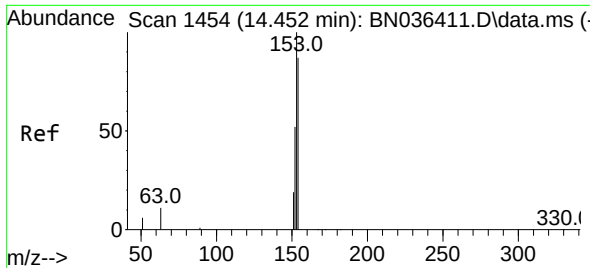
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#16
Acenaphthylene
Concen: 0.477 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

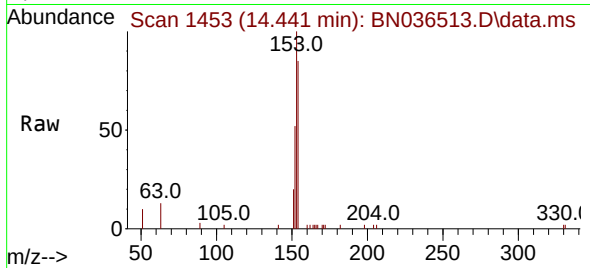
Tgt Ion:152 Resp: 6135
Ion Ratio Lower Upper
152 100
151 20.3 15.8 23.8
153 13.0 10.2 15.2





#17
Acenaphthene
Concen: 0.444 ng
RT: 14.441 min Scan# 1453
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

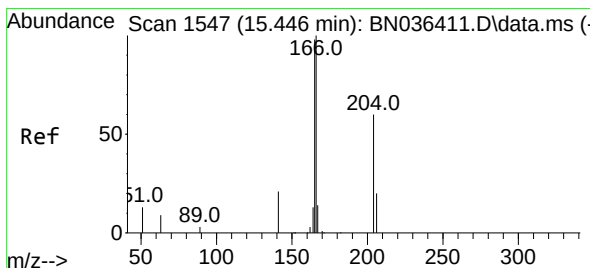
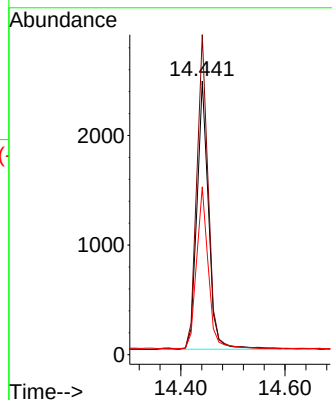
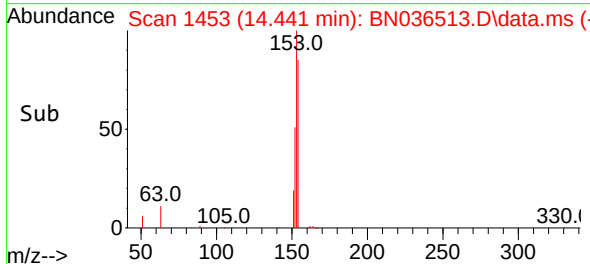
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:154 Resp: 381
Ion Ratio Lower Upper
154 100
153 115.6 93.3 139.9
152 61.0 48.8 73.2

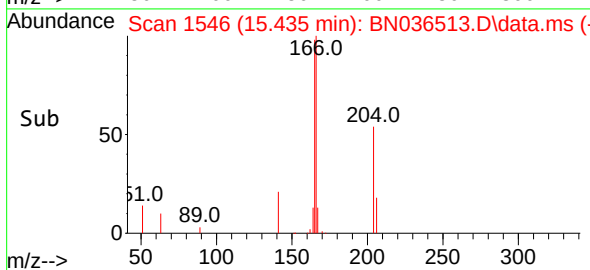
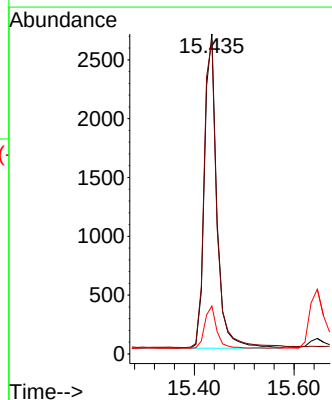
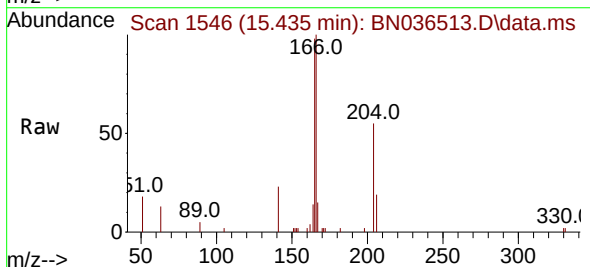
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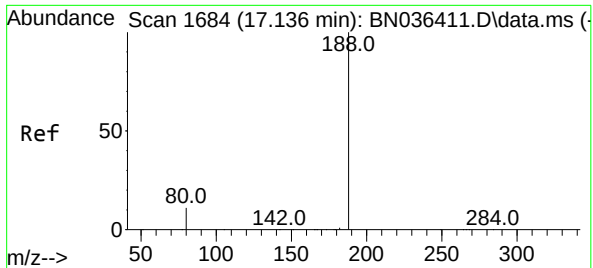
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#18
Fluorene
Concen: 0.395 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:166 Resp: 4829
Ion Ratio Lower Upper
166 100
165 101.4 79.5 119.3
167 12.7 10.4 15.6





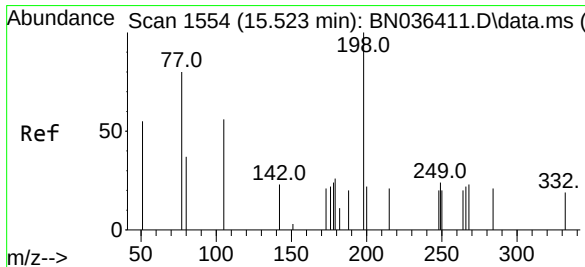
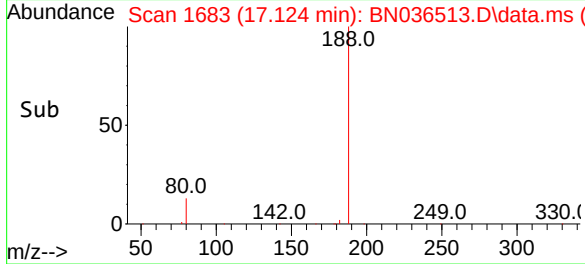
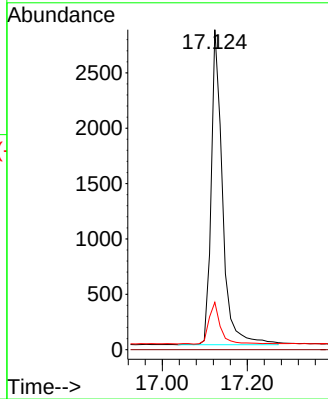
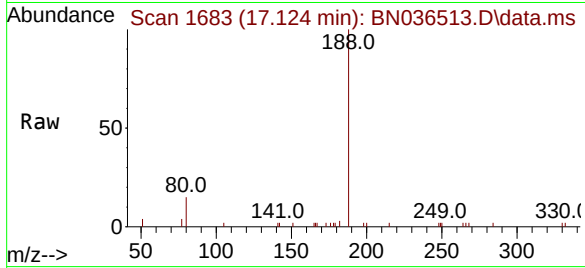
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Instrument :
BNA_N
ClientSampleId :
PB166876BSD

Tgt Ion:188 Resp: 525
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.8 9.8 14.6

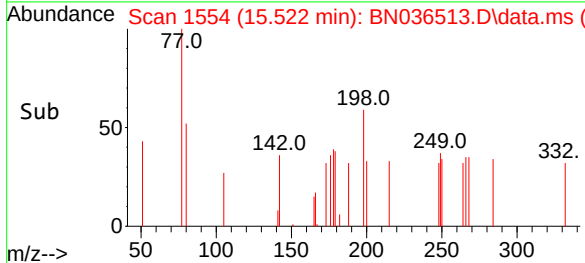
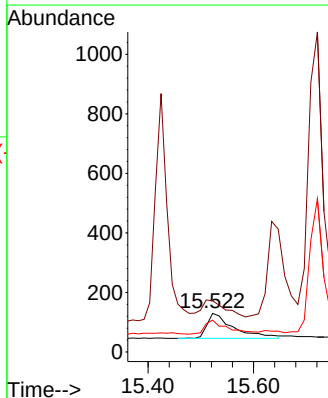
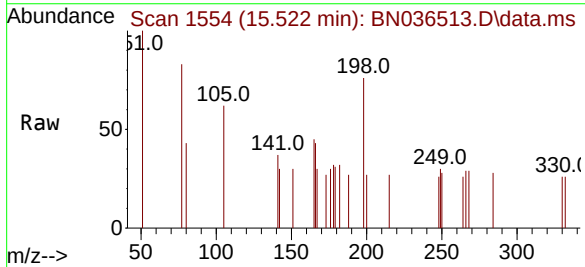
Manual Integrations
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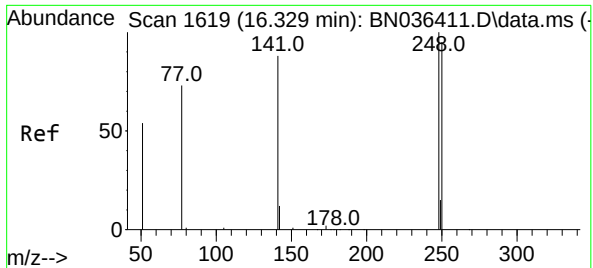
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.276 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.001 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

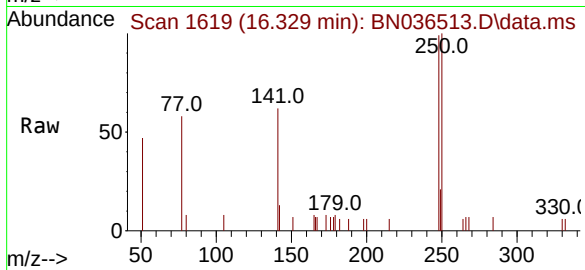
Tgt Ion:198 Resp: 284
Ion Ratio Lower Upper
198 100
51 132.3 86.6 129.8#
105 82.3 57.5 86.3





#21
4-Bromophenyl-phenylether
Concen: 0.447 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

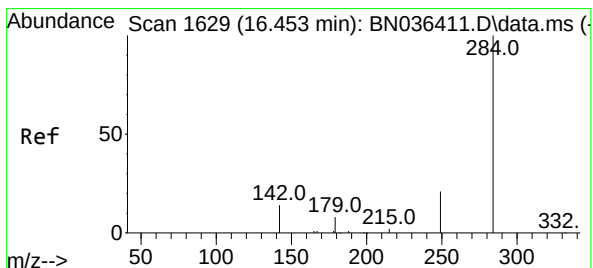
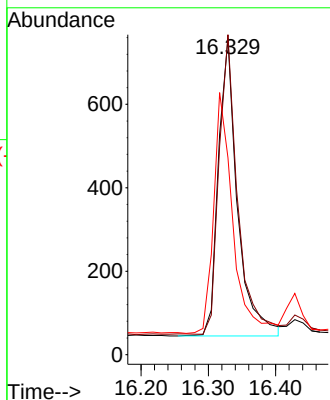
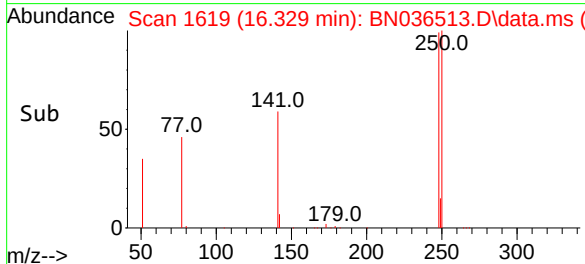
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:248 Resp: 140
Ion Ratio Lower Upper
248 100
250 101.2 76.1 114.1
141 62.3 71.7 107.5

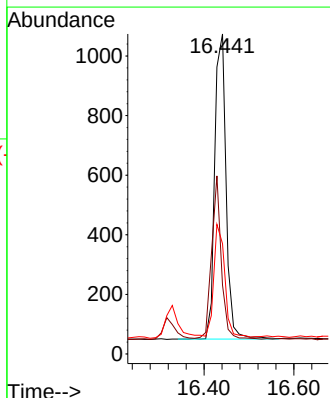
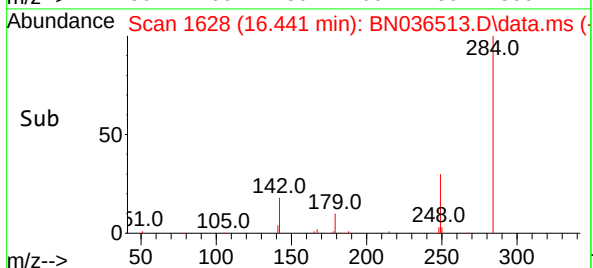
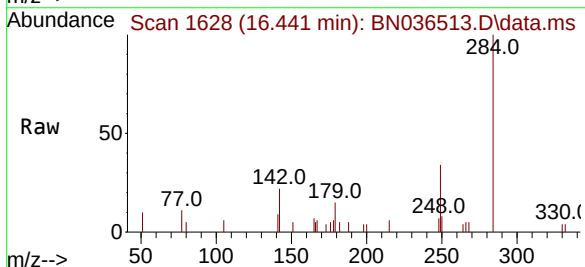
Manual Integrations
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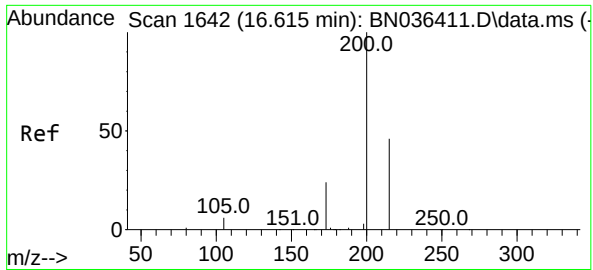
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#22
Hexachlorobenzene
Concen: 0.463 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

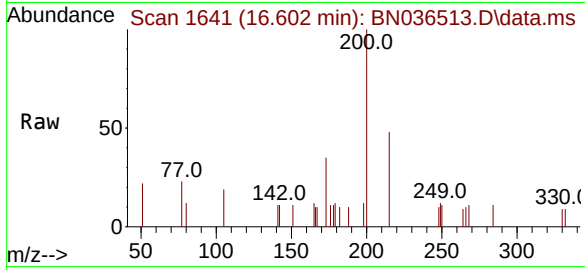
Tgt Ion:284 Resp: 1790
Ion Ratio Lower Upper
284 100
142 45.9 33.4 50.0
249 36.5 28.6 43.0





#23
Atrazine
Concen: 0.409 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

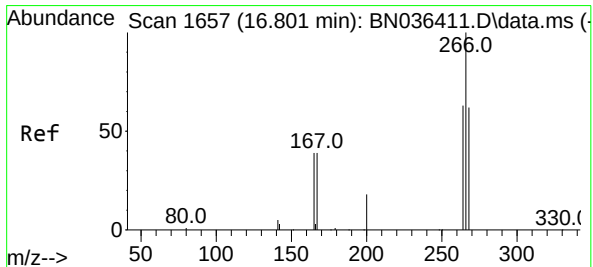
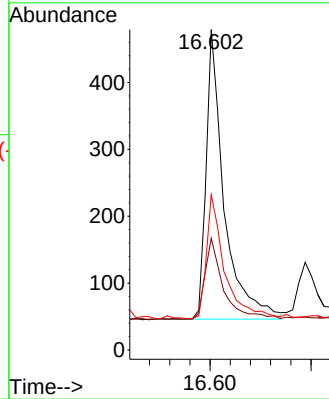
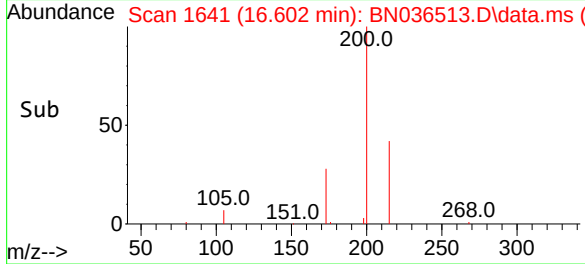
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:200 Resp: 1070
Ion Ratio Lower Upper
200 100
173 34.9 23.2 34.8
215 48.4 40.0 60.0

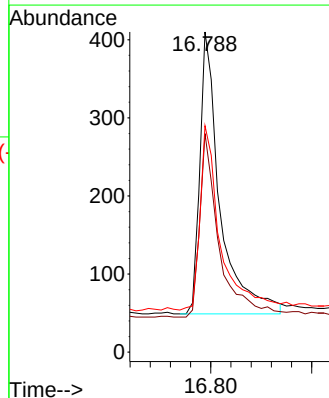
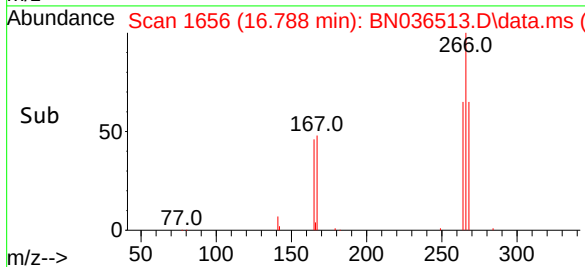
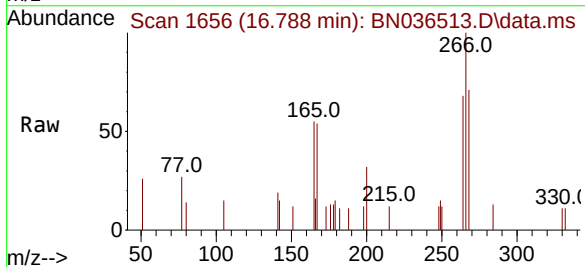
Manual Integrations
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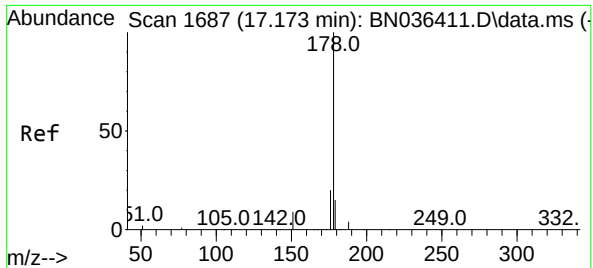
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#24
Pentachlorophenol
Concen: 0.547 ng
RT: 16.788 min Scan# 1656
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

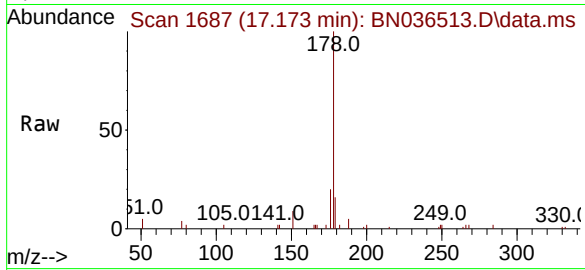
Tgt Ion:266 Resp: 1005
Ion Ratio Lower Upper
266 100
264 62.9 50.6 76.0
268 65.5 51.9 77.9





#25
Phenanthrene
Concen: 0.434 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.000 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

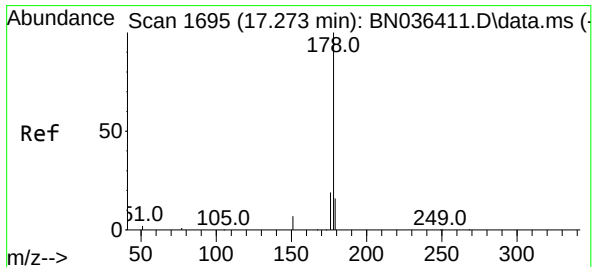
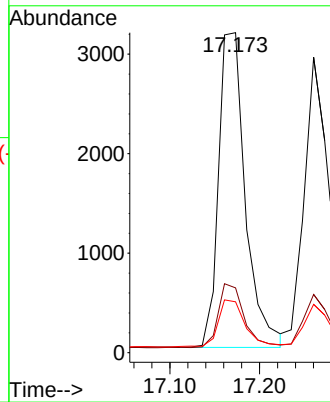
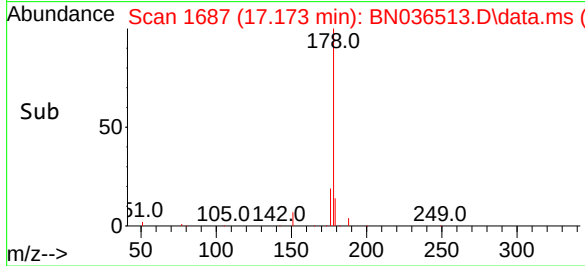
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:178 Resp: 6582
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.2 12.4 18.6

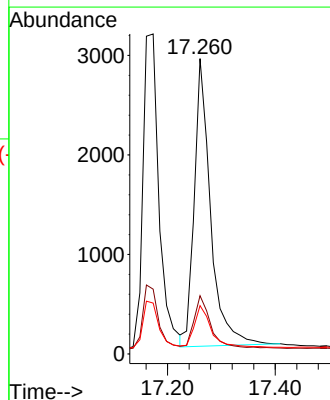
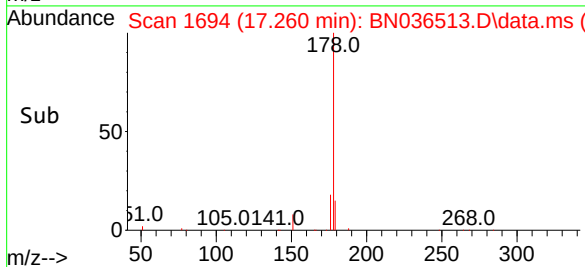
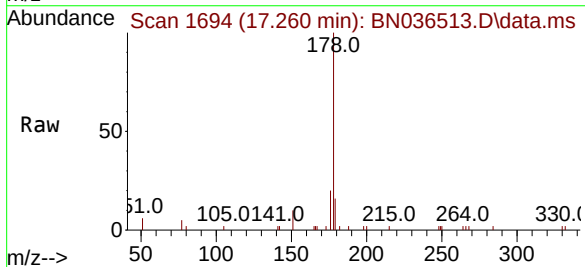
Manual Integrations
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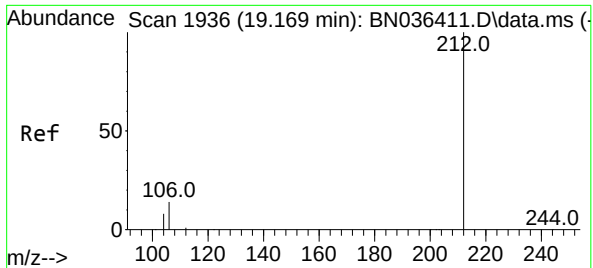
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#26
Anthracene
Concen: 0.454 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

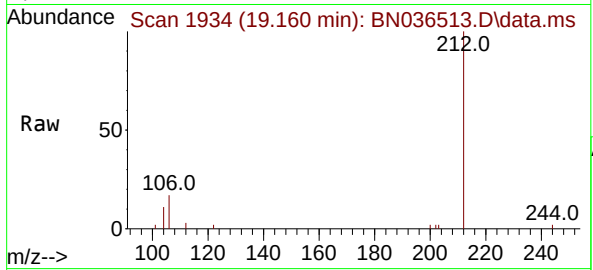
Tgt Ion:178 Resp: 6077
Ion Ratio Lower Upper
178 100
176 18.8 14.9 22.3
179 15.3 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 19.160 min Scan# 1936
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

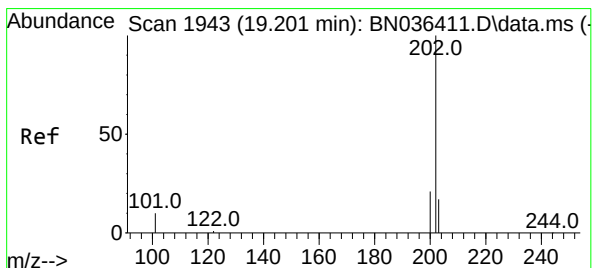
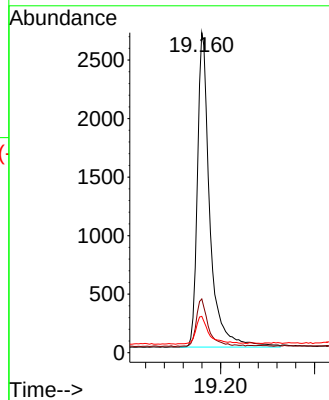
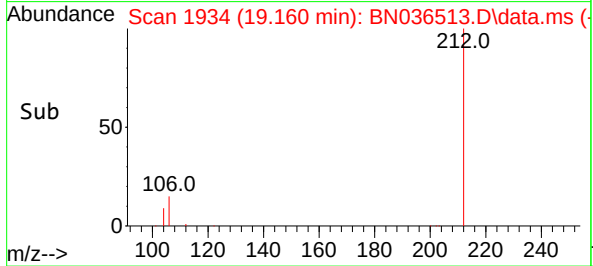
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



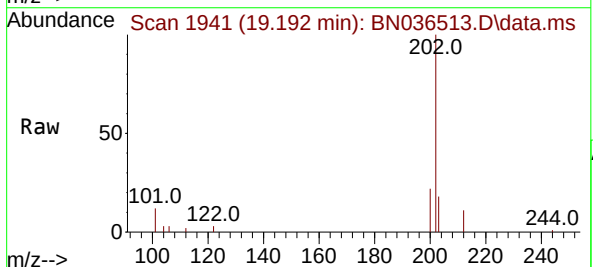
Tgt Ion:212 Resp: 493
Ion Ratio Lower Upper
212 100
106 14.5 11.5 17.3
104 9.8 7.1 10.7

Manual Integrations
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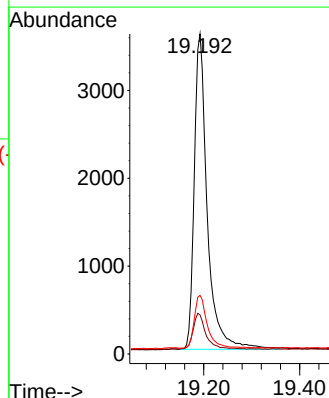
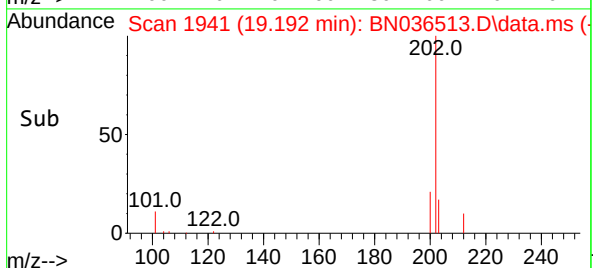
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025

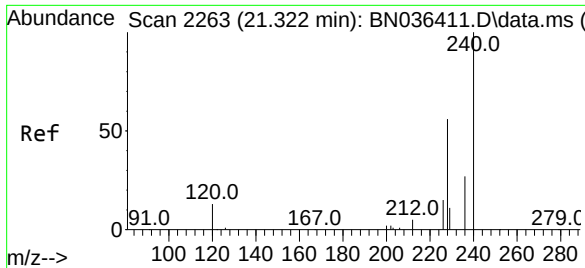


#28
Fluoranthene
Concen: 0.364 ng
RT: 19.192 min Scan# 1941
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44



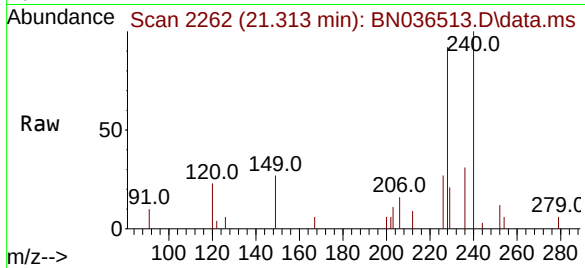
Tgt Ion:202 Resp: 6786
Ion Ratio Lower Upper
202 100
101 11.2 9.2 13.8
203 17.0 13.4 20.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

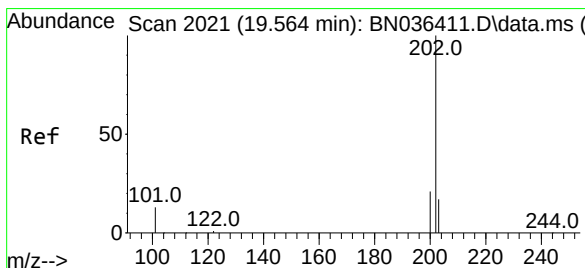
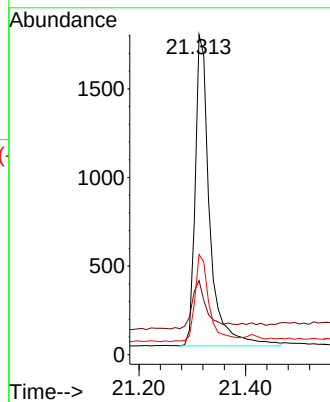
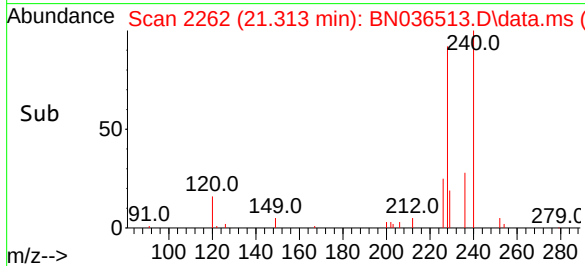
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:240 Resp: 3329
Ion Ratio Lower Upper
240 100
120 23.1 13.3 19.9
236 31.3 23.0 34.6

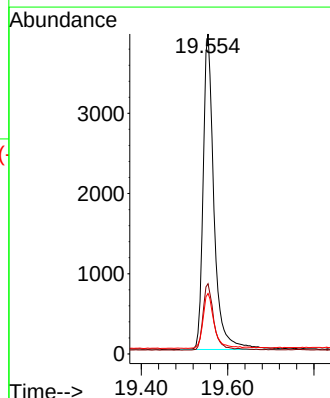
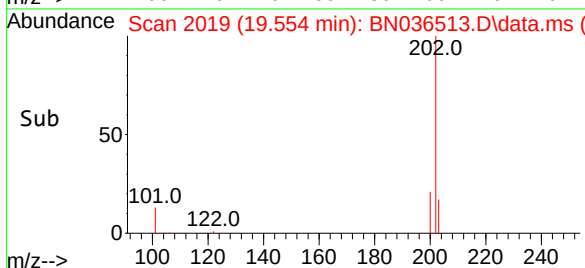
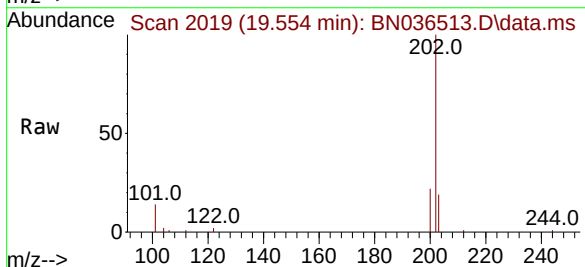
Manual Integrations
APPROVED

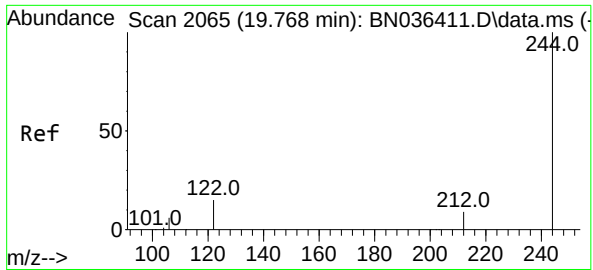
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#30
Pyrene
Concen: 0.539 ng
RT: 19.554 min Scan# 2019
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

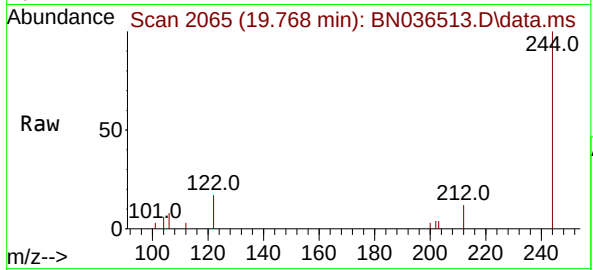
Tgt Ion:202 Resp: 6905
Ion Ratio Lower Upper
202 100
200 20.5 16.9 25.3
203 17.6 13.9 20.9





#31
Terphenyl-d14
Concen: 0.473 ng
RT: 19.768 min Scan# 2065
Delta R.T. -0.000 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

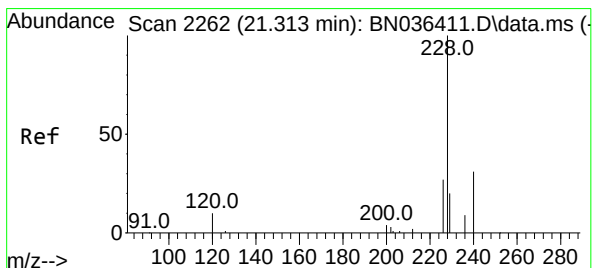
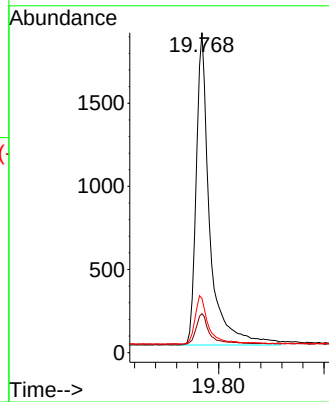
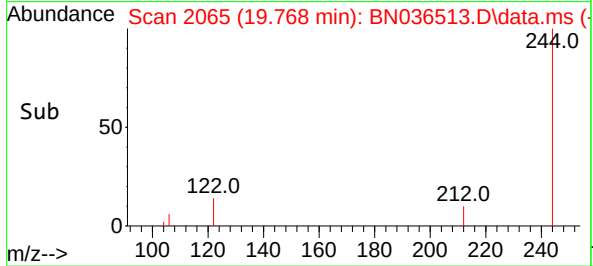
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:244 Resp: 336
Ion Ratio Lower Upper
244 100
212 12.2 8.1 12.1
122 16.9 12.8 19.2

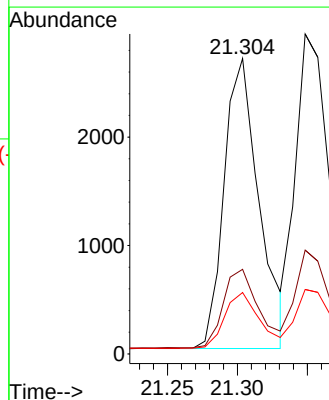
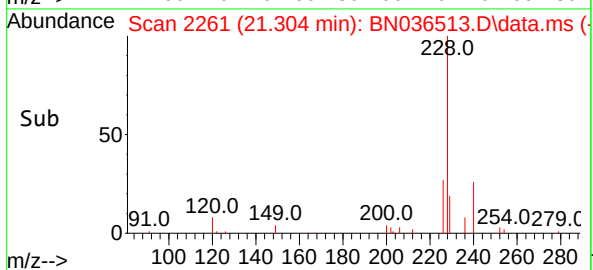
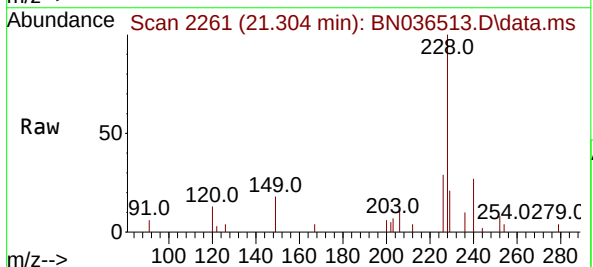
Manual Integrations
APPROVED

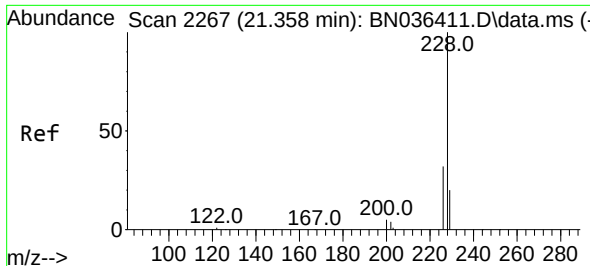
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#32
Benzo(a)anthracene
Concen: 0.424 ng
RT: 21.304 min Scan# 2261
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

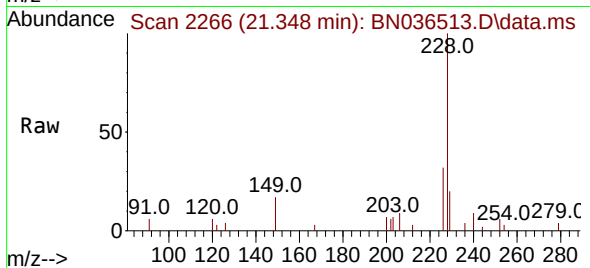
Tgt Ion:228 Resp: 4649
Ion Ratio Lower Upper
228 100
226 28.6 22.2 33.2
229 20.8 16.5 24.7





#33
Chrysene
Concen: 0.468 ng
RT: 21.348 min Scan# 21348
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

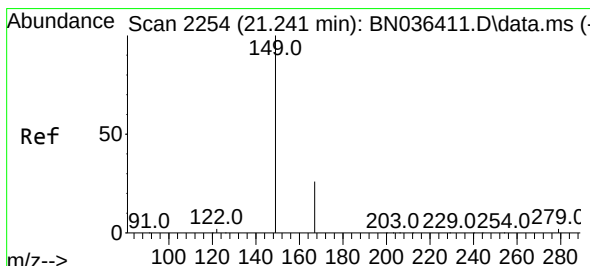
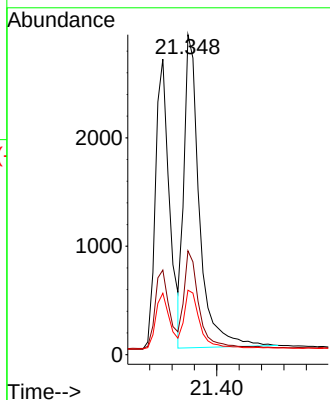
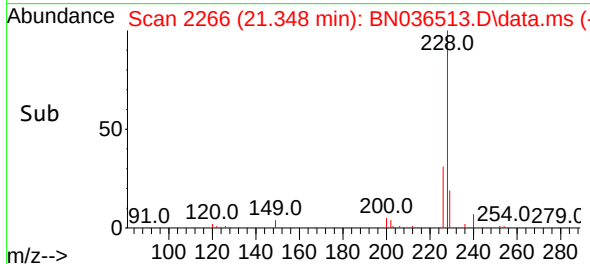
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion: 228 Resp: 555
Ion Ratio Lower Upper
228 100
226 32.5 25.5 38.3
229 20.2 16.4 24.6

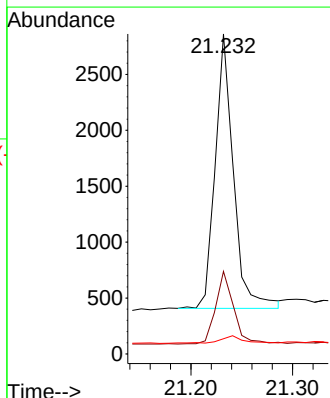
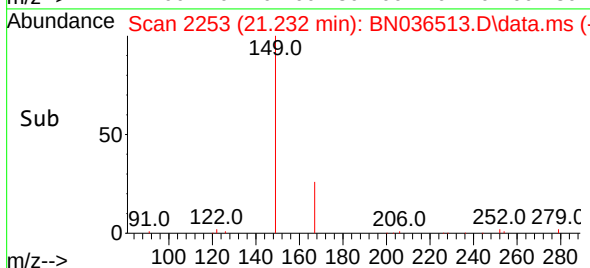
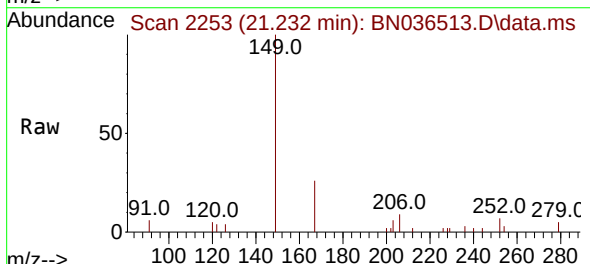
Manual Integrations
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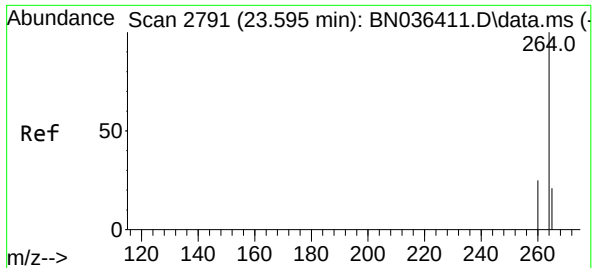
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.449 ng
RT: 21.232 min Scan# 2253
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

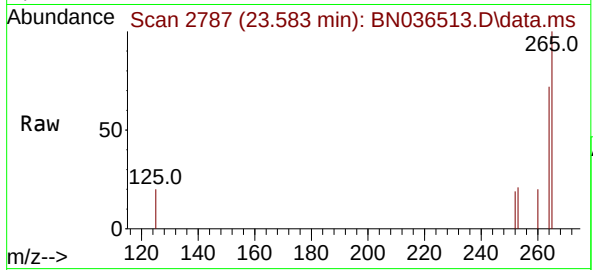
Tgt Ion: 149 Resp: 3065
Ion Ratio Lower Upper
149 100
167 26.4 21.2 31.8
279 3.3 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.583 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

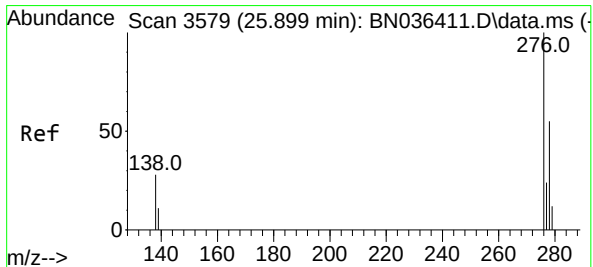
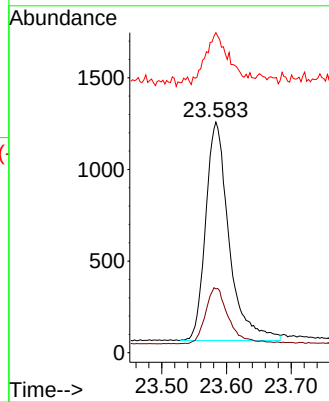
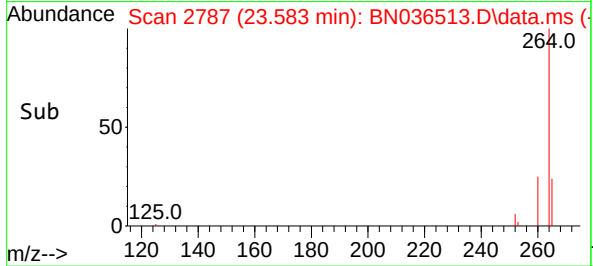
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:264 Resp: 2980
Ion Ratio Lower Upper
264 100
260 27.7 20.9 31.3
265 138.8 60.7 91.1

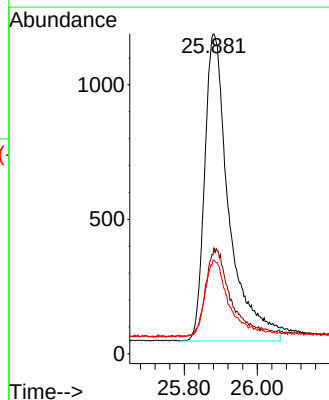
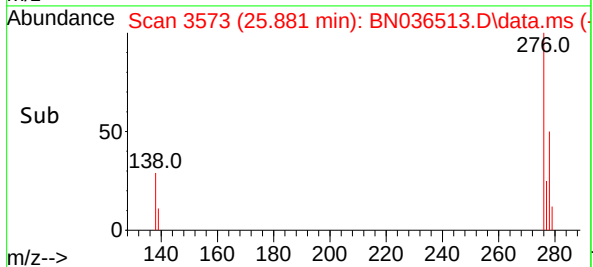
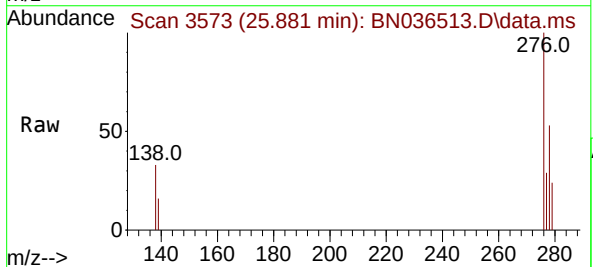
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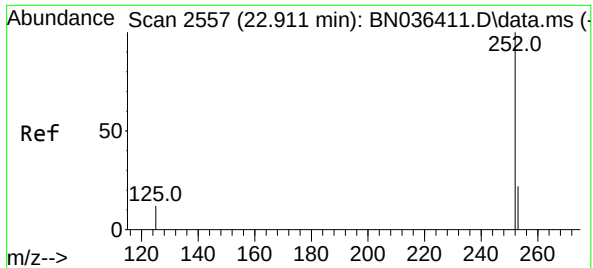
Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.508 ng
RT: 25.881 min Scan# 3573
Delta R.T. -0.018 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:276 Resp: 5305
Ion Ratio Lower Upper
276 100
138 27.4 22.2 33.2
277 23.2 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.441 ng

RT: 22.899 min Scan# 2553

Delta R.T. -0.012 min

Lab File: BN036513.D

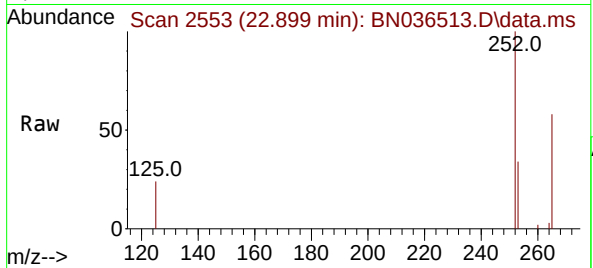
Acq: 26 Feb 2025 16:44

Instrument :

BNA_N

ClientSampleId :

PB166876BSD



Tgt Ion:252 Resp: 434

Ion Ratio Lower Upper

252 100

253 33.5 21.9 32.9

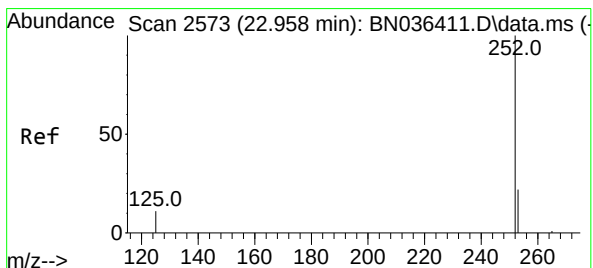
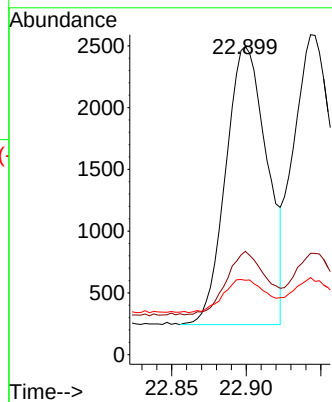
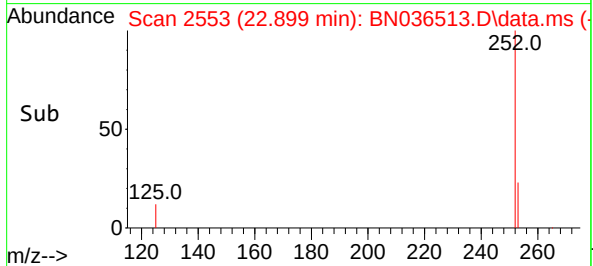
125 24.1 15.0 22.6

Manual Integrations

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Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#38

Benzo(k)fluoranthene

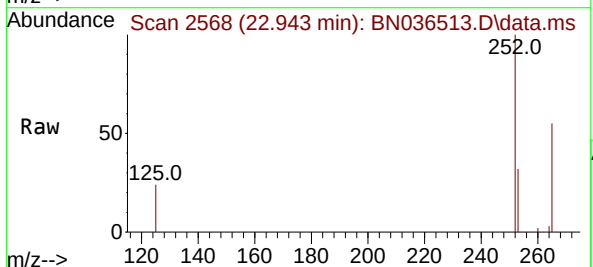
Concen: 0.505 ng

RT: 22.943 min Scan# 2568

Delta R.T. -0.015 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44



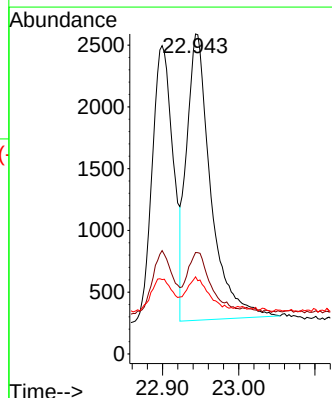
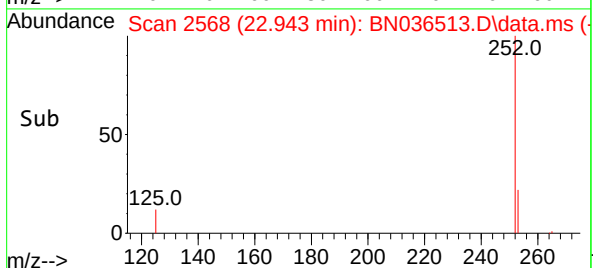
Tgt Ion:252 Resp: 5111

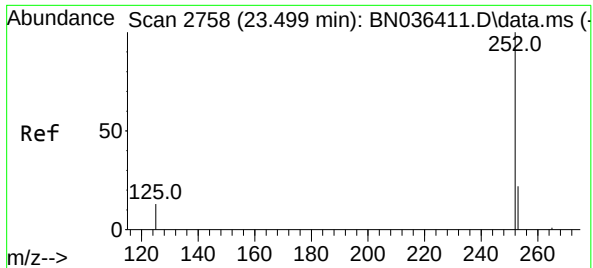
Ion Ratio Lower Upper

252 100

253 31.7 22.2 33.4

125 24.1 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.493 ng

RT: 23.484 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

Instrument :

BNA_N

ClientSampleId :

PB166876BSD

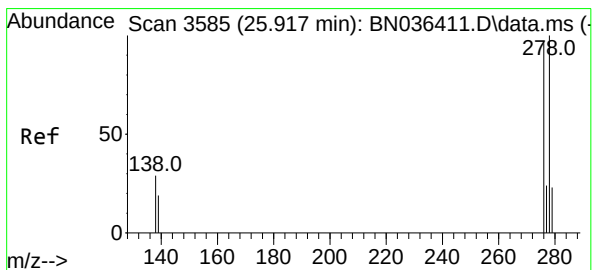
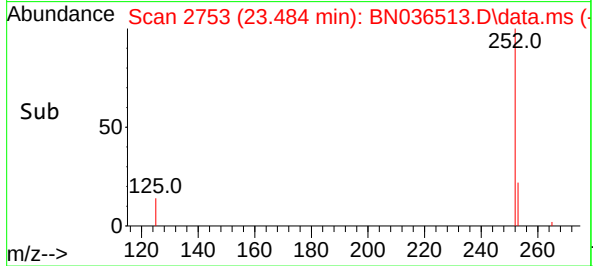
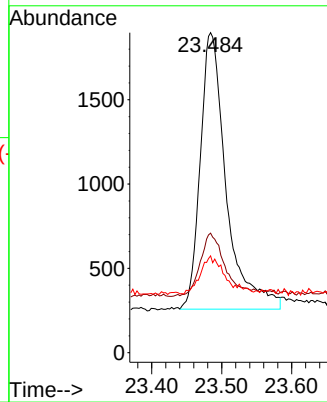
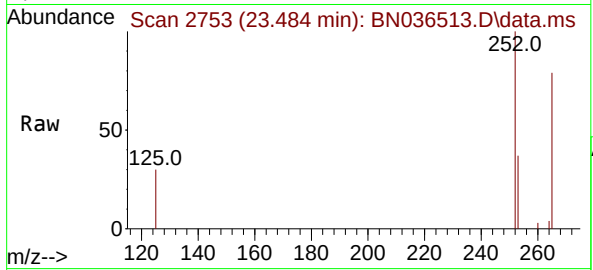
Tgt Ion:	252	Resp:	4229
Ion Ratio	Lower	Upper	
252	100		
253	37.4	24.4	36.6
125	30.2	18.2	27.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 02/27/2025

Supervised By :mohammad ahmed 02/28/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.469 ng

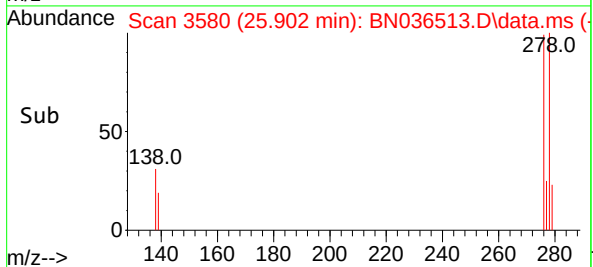
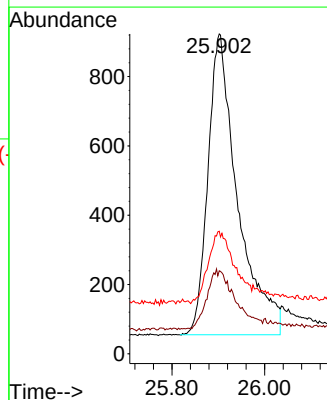
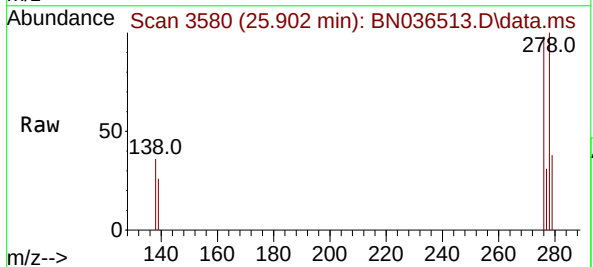
RT: 25.902 min Scan# 3580

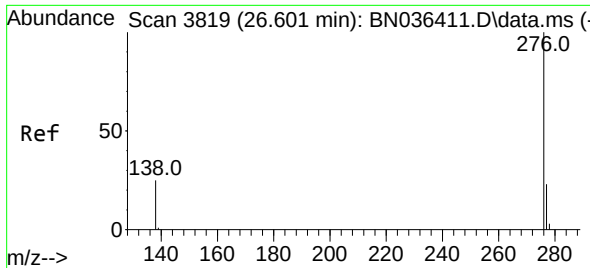
Delta R.T. -0.015 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

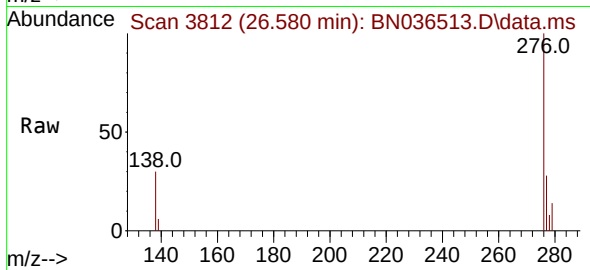
Tgt Ion:	278	Resp:	3859
Ion Ratio	Lower	Upper	
278	100		
139	26.0	18.5	27.7
279	38.4	24.8	37.2





#41
Benzo(g,h,i)perylene
Concen: 0.463 ng
RT: 26.580 min Scan# 3812
Delta R.T. -0.021 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

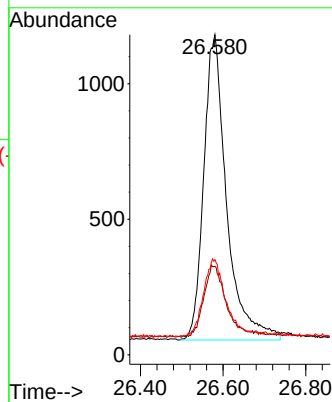
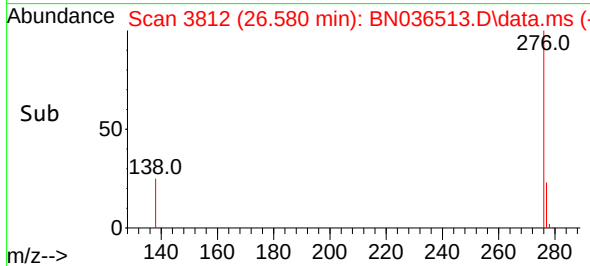
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:276 Resp: 432
Ion Ratio Lower Upper
276 100
277 27.7 20.7 31.1
138 29.7 21.8 32.6

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 02/27/2025
Supervised By :mohammad ahmed 02/28/2025





Manual Integration Report

Sequence:	BN021025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Manual Integration Report

Sequence:	BN022625	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN036508.D	Benzo(b)fluoranthene	Rahul	2/27/2025 11:20:09 AM	mohammad	2/28/2025 7:32:27 AM	Peak Integrated by Software
Q1423-03	BN036511.D	Dibenzo(a,h)anthracene	Rahul	2/27/2025 11:20:55 AM	mohammad	2/28/2025 7:32:27 AM	Peak Integrated by Software
Q1423-03	BN036511.D	Indeno(1,2,3-cd)pyrene	Rahul	2/27/2025 11:20:55 AM	mohammad	2/28/2025 7:32:27 AM	Peak Integrated by Software
PB166876BS	BN036512.D	2-Methylnaphthalene-d1 0	Rahul	2/27/2025 11:21:02 AM	mohammad	2/28/2025 7:32:27 AM	Peak Integrated by Software
PB166876BSD	BN036513.D	2-Methylnaphthalene-d1 0	Rahul	2/27/2025 11:21:07 AM	mohammad	2/28/2025 7:32:27 AM	Peak Integrated by Software
SSTDCCC0.4	BN036514.D	Benzo(b)fluoranthene	Rahul	2/27/2025 11:52:41 AM	mohammad	2/28/2025 7:32:27 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn021025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6682,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036408.D	10 Feb 2025 11:46	RC/JU	Ok
2	SSTDIC0.1	BN036409.D	10 Feb 2025 12:25	RC/JU	Ok
3	SSTDIC0.2	BN036410.D	10 Feb 2025 13:01	RC/JU	Ok
4	SSTDIC0.4	BN036411.D	10 Feb 2025 13:36	RC/JU	Ok
5	SSTDIC0.8	BN036412.D	10 Feb 2025 14:12	RC/JU	Ok
6	SSTDIC1.6	BN036413.D	10 Feb 2025 14:48	RC/JU	Ok
7	SSTDIC3.2	BN036414.D	10 Feb 2025 15:24	RC/JU	Ok
8	SSTDIC5.0	BN036415.D	10 Feb 2025 16:00	RC/JU	Ok
9	SSTDICV0.4	BN036416.D	10 Feb 2025 16:36	RC/JU	Ok
10	PB166297BL	BN036417.D	10 Feb 2025 17:48	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN022625

Review By	Rahul	Review On	2/27/2025 11:53:02 AM
Supervise By	mohammad	Supervise On	2/28/2025 7:32:27 AM
SubDirectory	BN022625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn021025
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6684		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036507.D	26 Feb 2025 13:04	RC/JU	Ok
2	SSTDCCC0.4	BN036508.D	26 Feb 2025 13:43	RC/JU	Ok,M
3	PB166876BL	BN036509.D	26 Feb 2025 14:19	RC/JU	Ok
4	Q1423-02	BN036510.D	26 Feb 2025 14:55	RC/JU	Ok
5	Q1423-03	BN036511.D	26 Feb 2025 15:31	RC/JU	Ok,M
6	PB166876BS	BN036512.D	26 Feb 2025 16:07	RC/JU	Ok,M
7	PB166876BSD	BN036513.D	26 Feb 2025 16:44	RC/JU	Ok,M
8	SSTDCCC0.4	BN036514.D	26 Feb 2025 17:20	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN021025

Review By	Rahul	Review On	2/11/2025 4:21:36 PM
Supervise By	Jagrut	Supervise On	2/11/2025 6:22:45 PM
SubDirectory	BN021025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6682,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036408.D	10 Feb 2025 11:46		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036409.D	10 Feb 2025 12:25		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN036410.D	10 Feb 2025 13:01		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN036411.D	10 Feb 2025 13:36	The Calibration is Good For DOD	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036412.D	10 Feb 2025 14:12		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036413.D	10 Feb 2025 14:48		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036414.D	10 Feb 2025 15:24		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036415.D	10 Feb 2025 16:00	Compound #20 removed from 5.0ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN021025	BN036416.D	10 Feb 2025 16:36		RC/JU	Ok
10	PB166297BL	PB166297BL	BN036417.D	10 Feb 2025 17:48	Analyzed for contamination check	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN022625

Review By	Rahul	Review On	2/27/2025 11:53:02 AM
Supervise By	mohammad	Supervise On	2/28/2025 7:32:27 AM
SubDirectory	BN022625	HP Acquire Method	BNA_N, 8270_HP Processing Method bn021025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6684
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036507.D	26 Feb 2025 13:04		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036508.D	26 Feb 2025 13:43		RC/JU	Ok,M
3	PB166876BL	PB166876BL	BN036509.D	26 Feb 2025 14:19		RC/JU	Ok
4	Q1423-02	VPB192-HYD-2025022	BN036510.D	26 Feb 2025 14:55	Surrogate Fail	RC/JU	Ok
5	Q1423-03	BP-VPB-192-EB-20250	BN036511.D	26 Feb 2025 15:31		RC/JU	Ok,M
6	PB166876BS	PB166876BS	BN036512.D	26 Feb 2025 16:07		RC/JU	Ok,M
7	PB166876BSD	PB166876BSD	BN036513.D	26 Feb 2025 16:44		RC/JU	Ok,M
8	SSTDCCC0.4	SSTDCCC0.4EC	BN036514.D	26 Feb 2025 17:20		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 02/26/2025

Matrix : Water **Extraction Start Time :** 08:52

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 02/26/2025

Balance check: N/A **Filter By:** RS **Extraction End Time :** 13:55

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3880 **Hood ID:** 4,6,7 **Supervisor By :** RUPESH

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	SP6739
Surrogate	1.0ML	0.4 PPM	SP6718
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	E3878
Baked Na2SO4	N/A	EP2589
10N NaOH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: Water bath -01,02 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
2/26/25	RS (Bath Lab)	ACIS-VOC
14:00	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 02/26/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166876BL	SBLK876	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-6
PB166876BS	SLCS876	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			7
PB166876BS D	SLCSD876	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			8
Q1423-02	VPB-192-HYD-20250221	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1	C		9
Q1423-03	BP-VPB-192-EB-2025022 1	SVOC-SIMGrou p1	900	6	RUPESH	ritesh	1	C		10

by
2/26

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1423 WorkList ID : 187893 Department : Extraction Date : 02-26-2025 08:47:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1423-02	VPB-192-HYD-20250221	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H33	02/21/2025	8270-Modified
Q1423-03	BP-VPB-192-EB-20250221	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H33	02/21/2025	8270-Modified

Date/Time 2/26/25 8:48
 Raw Sample Received by: RS (Ext Lab)
 Raw Sample Relinquished by: CR sm

Date/Time 2/26/25 9:15
 Raw Sample Received by: CR sm
 Raw Sample Relinquished by: RS (Ext Lab)

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Prep Standard - Chemical Standard Summary

Order ID : Q1423
Test : SVOC-SIMGroup1
Prepbatch ID : PB166876,
Sequence ID/Qc Batch ID: BN022625,

Standard ID :
EP2559,EP2565,EP2589,SP6682,SP6683,SP6684,SP6717,SP6718,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3846,E3871,E3873,E3874,E3878,M5173,S10104,S10246,S11074,S11495,S11650,S11785,S11831,S11832,S12114,S12142,S12189,S12208,S12270,S12328,S12469,S12478,S12517,S12525,S12651,S12791,S12966,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

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	SP6682	11/15/2024	05/09/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/03/2024

FROM 0.10000ml of S12328 + 4.90000ml of E3828 = Final Quantity: 5.000 ml

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	SP6683	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.00630ml of S12189 + 0.01280ml of S12208 + 0.03200ml of S11074 + 0.03200ml of S11831 + 0.06400ml of S12142 + 0.06400ml of S12469 + 0.06400ml of S12517 + 19.72490ml of E3828 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6684	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
SOURCE FROM 0.87500ml of E3828 + 0.01000ml of SP6682 + 0.12500ml of SP6683 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
								01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6718	01/17/2025	04/10/2025	Rahul Chavli	None	None	Shreena Patel
								02/07/2025

FROM 0.00400ml of S12189 + 0.00800ml of S12208 + 0.02000ml of S11831 + 99.96800ml of E3846 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.03350ml of S10104 + 0.05000ml of S11495 + 0.12500ml of S11832 + 0.12500ml of S12114 + 0.25000ml of S12270 + 0.25000ml of S12791 + 24.16650ml of E3874 = Final Quantity: 25.000 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>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6731	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6730 = 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>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6732	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.68000ml of E3874 + 0.01000ml of SP6682 + 0.32000ml of SP6730 = 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>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6733	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.84000ml of E3874 + 0.01000ml of SP6682 + 0.16000ml of SP6730 = 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>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6734	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.92000ml of E3874 + 0.01000ml of SP6682 + 0.08000ml of SP6730 = 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>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6735	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.96000ml of E3874 + 0.01000ml of SP6682 + 0.04000ml of SP6730 = 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>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6736	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.50000ml of E3874 + 0.01000ml of SP6682 + 0.50000ml of SP6735 = 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>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6738	02/04/2025	05/09/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.75000ml of E3874 + 0.01000ml of SP6682 + 0.25000ml of SP6735 = 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>
3492	8270-SIM-Spike 0.4 PPM	SP6739	02/05/2025	07/29/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025
FROM 0.00080ml of S11650 + 0.01000ml of S11785 + 0.02000ml of S12478 + 0.02000ml of S12525 + 0.02000ml of S12966 + 49.92920ml of E3873 = Final Quantity: 50.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025
FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

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)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

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)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

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	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

CHEMICAL RECEIPT LOG BOOK

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	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

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]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	04/11/2025	10/11/2024 / Jagrut	11/21/2023 / rahul	S11831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

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	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[CS 4978-2]

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	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

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	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

CHEMICAL RECEIPT LOG BOOK

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 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °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 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL Gravimetric +/- 45.7132 µg/mL Unstressed +/- 66.0037 µg/mL Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL Gravimetric +/- 45.8508 µg/mL Unstressed +/- 66.2023 µg/mL Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL Gravimetric +/- 45.9318 µg/mL Unstressed +/- 66.3193 µg/mL Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL Gravimetric +/- 45.8954 µg/mL Unstressed +/- 66.2667 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

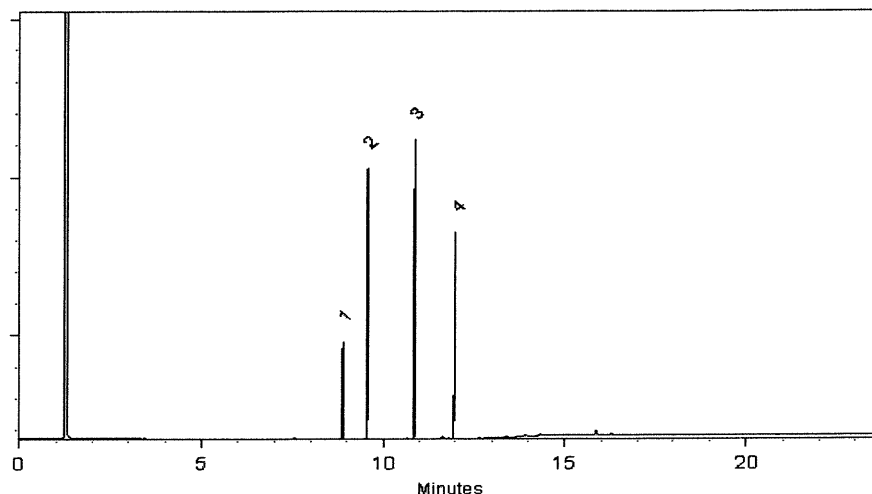
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

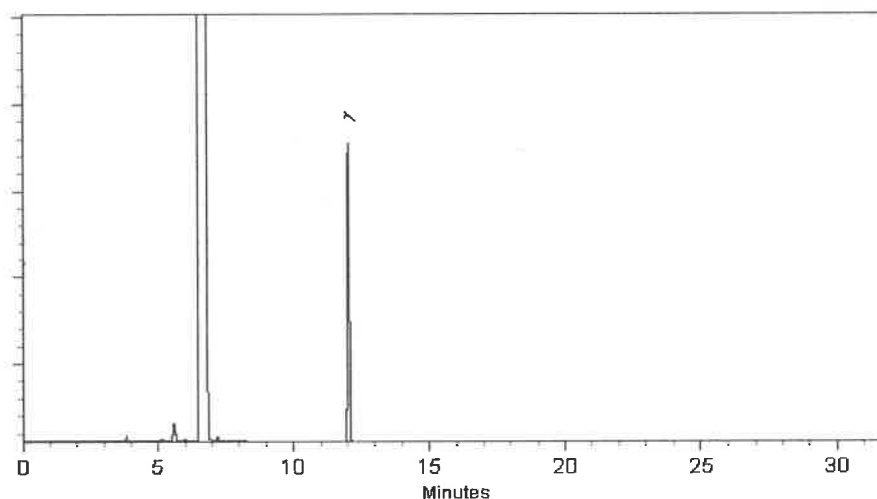
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



**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.

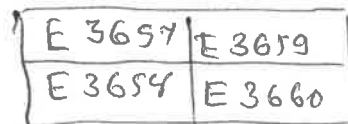
This document has been electronically produced and is valid without a signature.

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)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP On 12/13/24

E 3846

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
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	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
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 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	<= 0.3	0.2
Titration Base (μeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
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: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 1/29/25

E 3873

Jamie Croak

Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 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 3874



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
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	0.5 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	0.0
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 3878

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

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
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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.



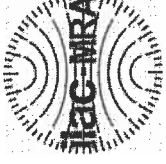
CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Lot No.: A0201728

Description :	Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size :	2 mL
Pkg Amt:	> 1 mL

Pkg Amt: > 1 mL

Expiration Date :	September 30, 2026
Storage:	10°C or colder

Storage: 10°C or colder

Ship: Ambient

Ship: Ambient

$$\left. \begin{array}{r} 511649 \\ \downarrow \\ 511658 \end{array} \right\} \frac{y.p.}{11113123}$$

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol

Methanol

CAS # 67-56-1

Purity 99%

99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

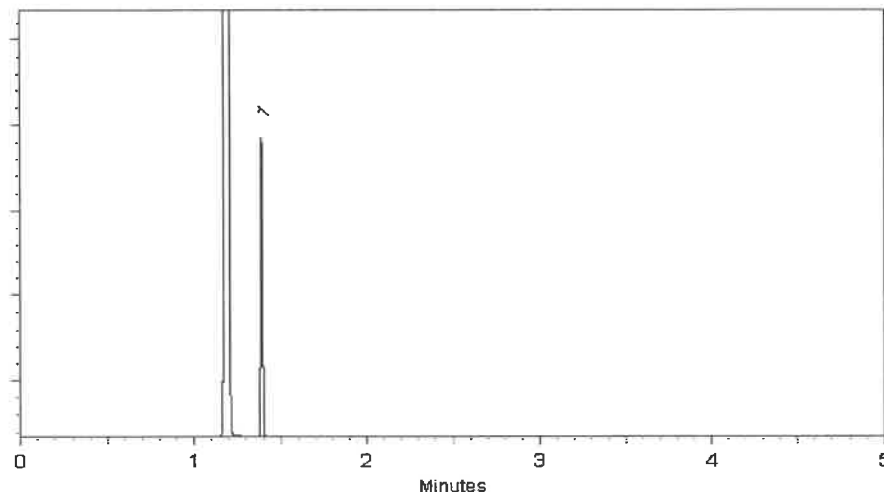
FID

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.
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- 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.
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

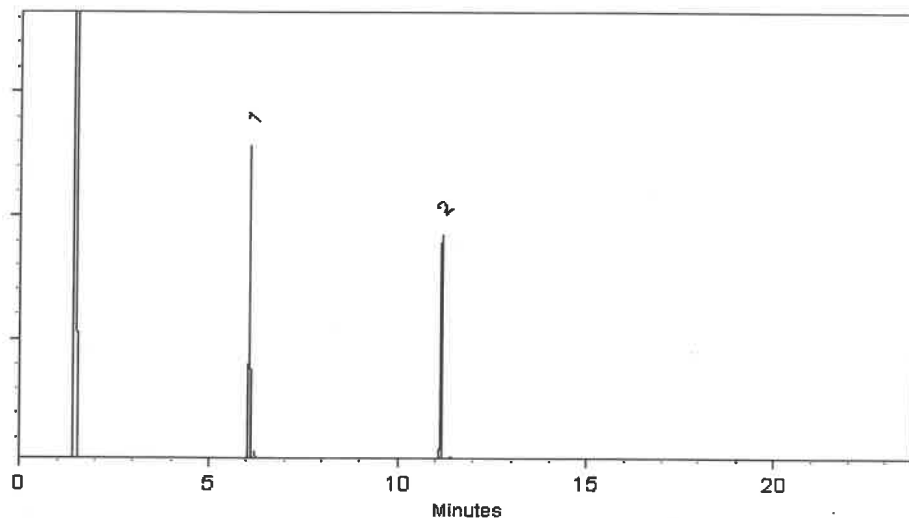
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

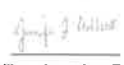


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

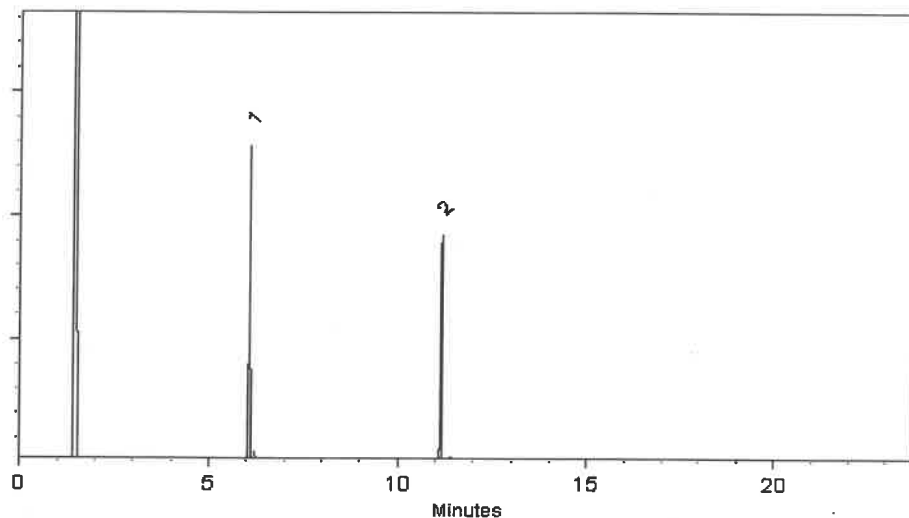
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

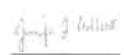


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

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- 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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	18
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

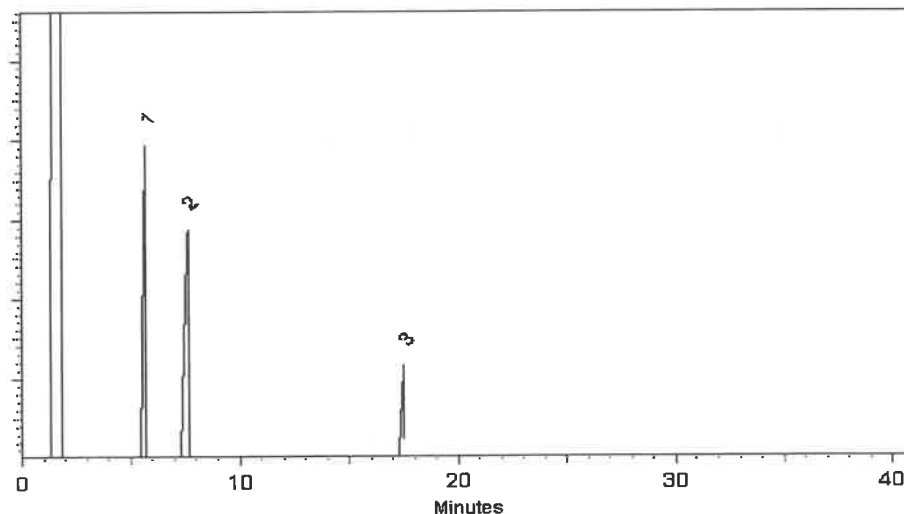
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

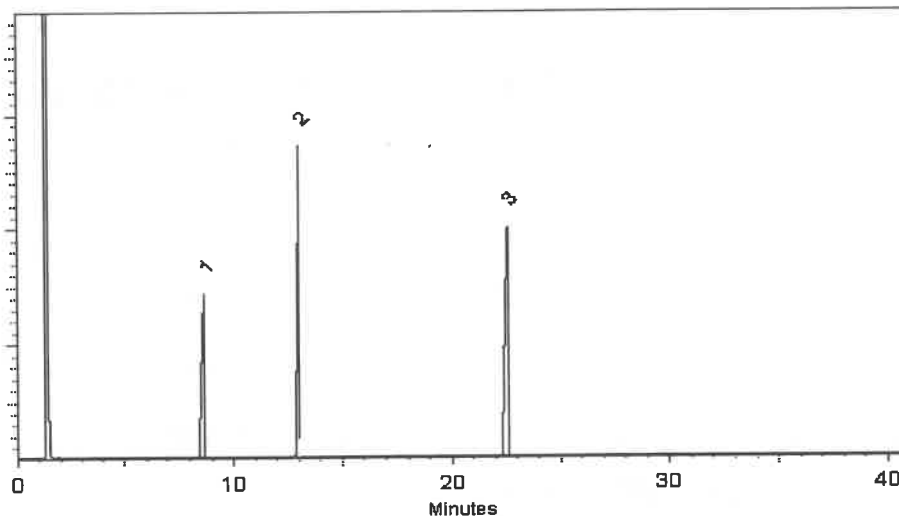
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	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	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
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 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
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

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
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

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

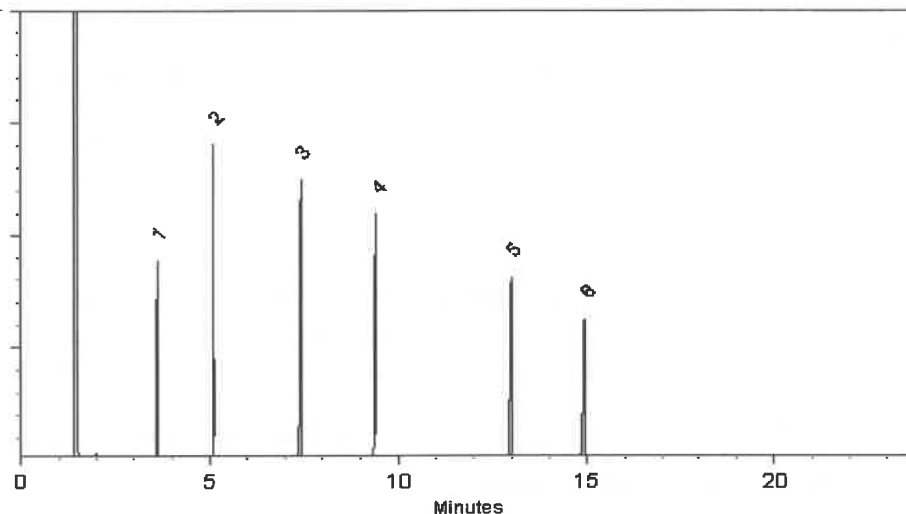
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24


Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- 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.
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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.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- 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.:** A0212266

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 : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
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by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*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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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.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

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%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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SHIPPING DOCUMENTS

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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 : Q1423 TETR06

Order Date : 2/25/2025 10:55:00 AM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 2/24/2025 6:28:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

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
Q1423-01	BP-VPB-192-TB-20250220	Water	02/20/2025	09:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1423-02	VPB-192-HYD-20250221	Water	02/21/2025	14:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1423-03	BP-VPB-192-EB-20250221	Water	02/21/2025	09:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1423-04	BP-VPB-192-GW-925-927	Water	02/20/2025	09:35					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036508.D
 Acq On : 26 Feb 2025 13:43
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Feb 26 14:09:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

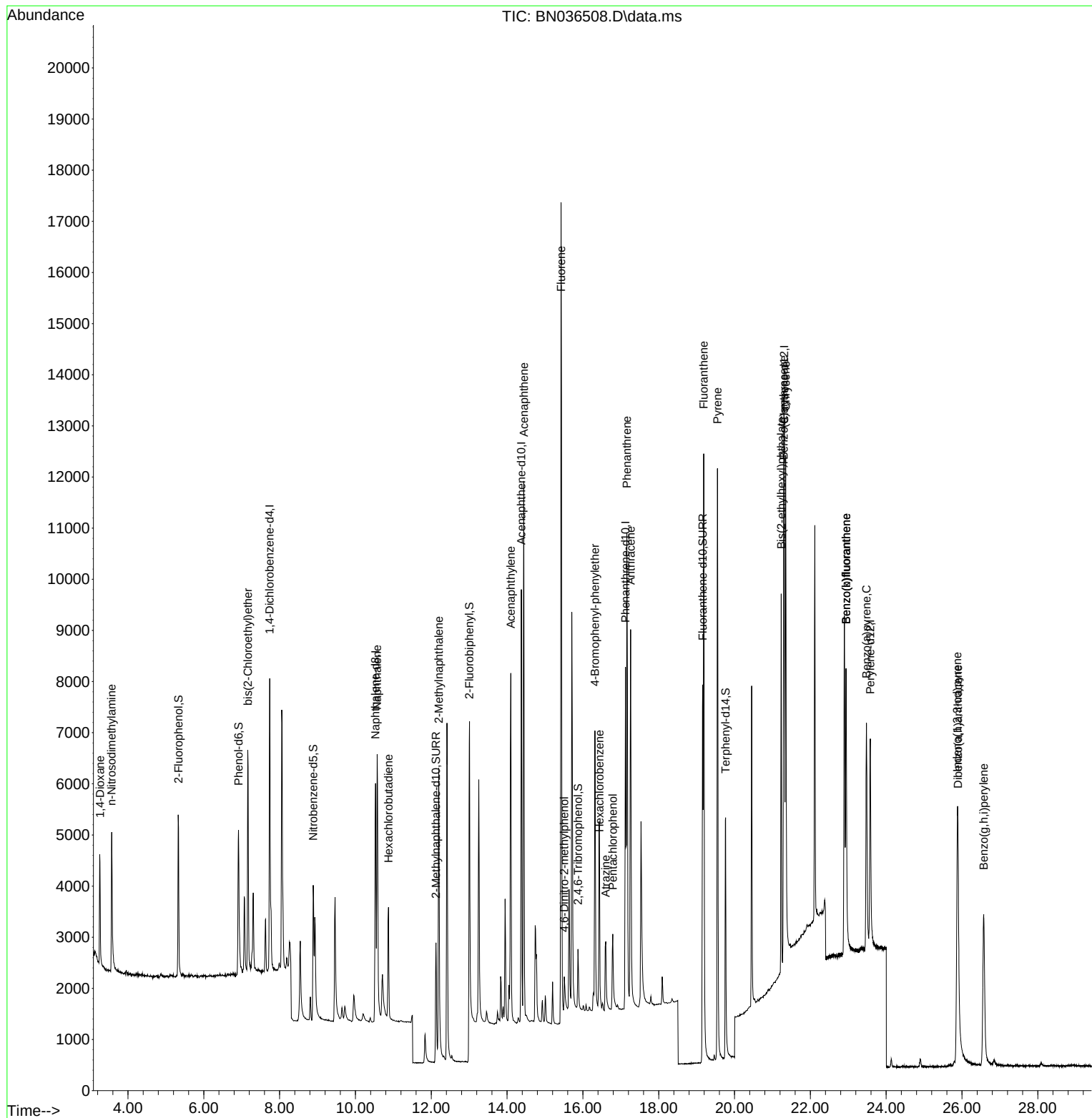
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2772	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	6909	0.400	ng	#-0.01
13) Acenaphthene-d10	14.377	164	4680	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	9092	0.400	ng	-0.01
29) Chrysene-d12	21.313	240	6639	0.400	ng	0.00
35) Perylene-d12	23.581	264	6000	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2377	0.363	ng	-0.01
5) Phenol-d6	6.915	99	2776	0.361	ng	-0.02
8) Nitrobenzene-d5	8.886	82	2668	0.391	ng	-0.02
11) 2-Methylnaphthalene-d10	12.126	152	4099	0.386	ng	-0.02
14) 2,4,6-Tribromophenol	15.870	330	719	0.310	ng	-0.01
15) 2-Fluorobiphenyl	13.003	172	7811	0.444	ng	-0.02
27) Fluoranthene-d10	19.160	212	9278	0.367	ng	0.00
31) Terphenyl-d14	19.764	244	6045	0.427	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	1294	0.427	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.564	42	2267	0.430	ng	92
6) bis(2-Chloroethyl)ether	7.161	93	3244	0.404	ng	98
9) Naphthalene	10.573	128	7777	0.390	ng	99
10) Hexachlorobutadiene	10.872	225	1886	0.389	ng	# 98
12) 2-Methylnaphthalene	12.197	142	5047	0.386	ng	99
16) Acenaphthylene	14.099	152	7894	0.382	ng	99
17) Acenaphthene	14.441	154	5057	0.366	ng	99
18) Fluorene	15.425	166	7106	0.362	ng	100
20) 4,6-Dinitro-2-methylph...	15.510	198	548	0.307	ng	92
21) 4-Bromophenyl-phenylether	16.317	248	2189	0.404	ng	98
22) Hexachlorobenzene	16.441	284	2720	0.406	ng	95
23) Atrazine	16.602	200	1700	0.375	ng	98
24) Pentachlorophenol	16.789	266	1101	0.346	ng	98
25) Phenanthrene	17.161	178	10441	0.397	ng	99
26) Anthracene	17.260	178	9164	0.395	ng	99
28) Fluoranthene	19.188	202	11838	0.367	ng	99
30) Pyrene	19.550	202	11970	0.468	ng	100
32) Benzo(a)anthracene	21.295	228	8384	0.384	ng	98
33) Chrysene	21.349	228	9942	0.420	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	6526	0.479	ng	100
36) Indeno(1,2,3-cd)pyrene	25.879	276	7809	0.372	ng	98
37) Benzo(b)fluoranthene	22.943	252	8277	0.419	ng	99
38) Benzo(k)fluoranthene	22.943	252	8277	0.407	ng	100
39) Benzo(a)pyrene	23.481	252	7264	0.421	ng	# 90
40) Dibenzo(a,h)anthracene	25.896	278	5914	0.357	ng	98
41) Benzo(g,h,i)perylene	26.572	276	6890	0.367	ng	98

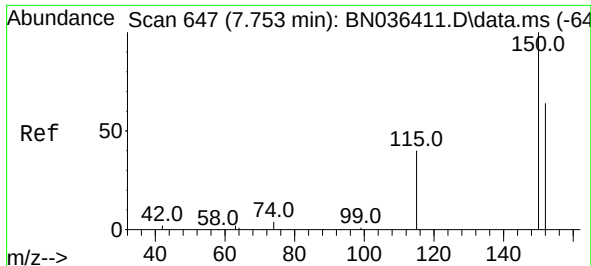
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036508.D
Acq On : 26 Feb 2025 13:43
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Feb 26 14:09:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

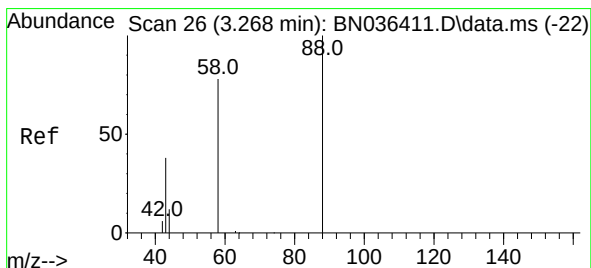
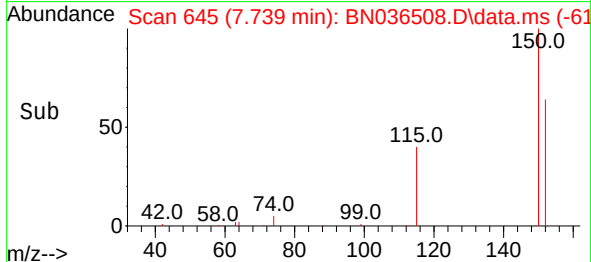
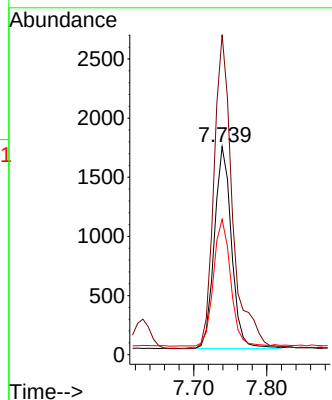
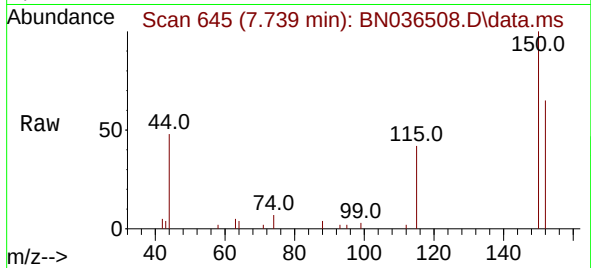




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

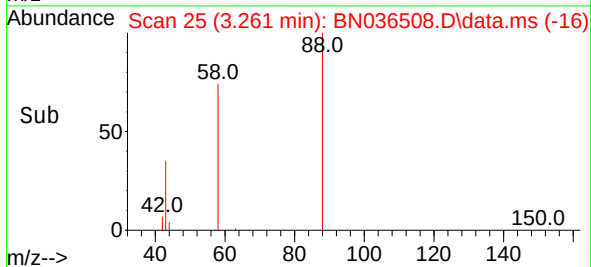
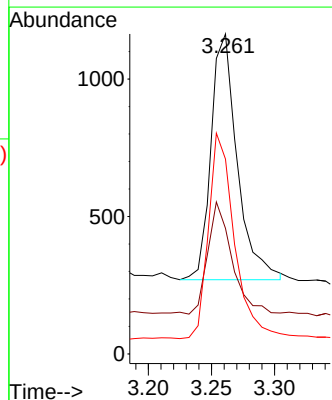
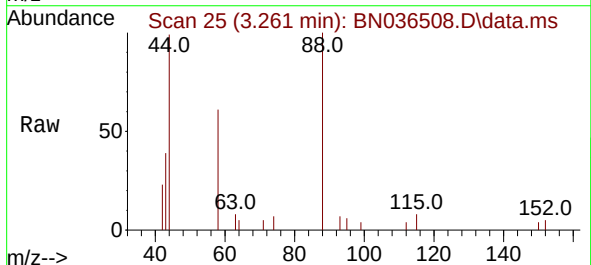
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

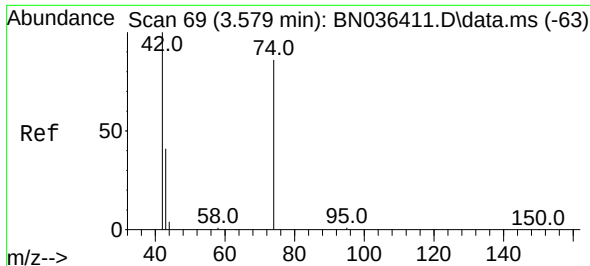
Tgt Ion:152 Resp: 2772
Ion Ratio Lower Upper
152 100
150 153.8 123.7 185.5
115 65.1 52.5 78.7



#2
1,4-Dioxane
Concen: 0.427 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion: 88 Resp: 1294
Ion Ratio Lower Upper
88 100
43 40.8 33.7 50.5
58 82.4 68.9 103.3

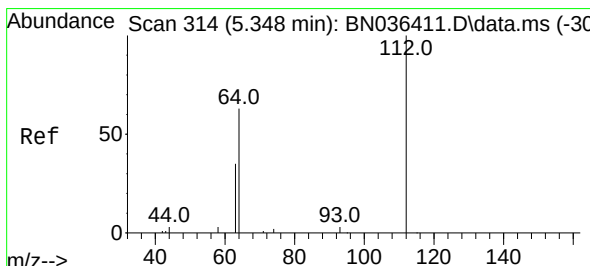
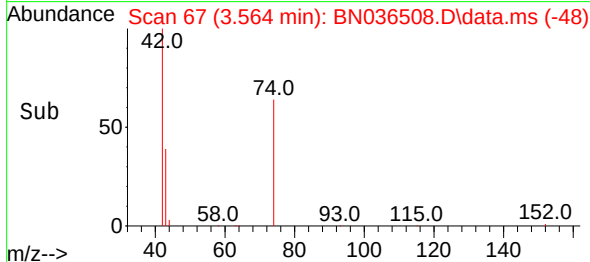
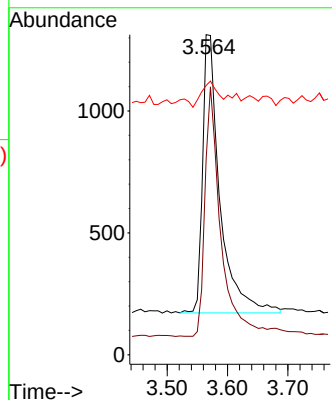
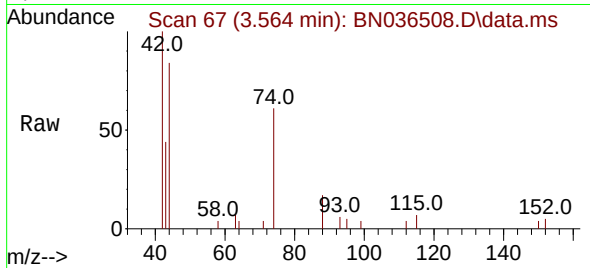




#3
 n-Nitrosodimethylamine
 Concen: 0.430 ng
 RT: 3.564 min Scan# 61
 Delta R.T. -0.014 min
 Lab File: BN036508.D
 Acq: 26 Feb 2025 13:43

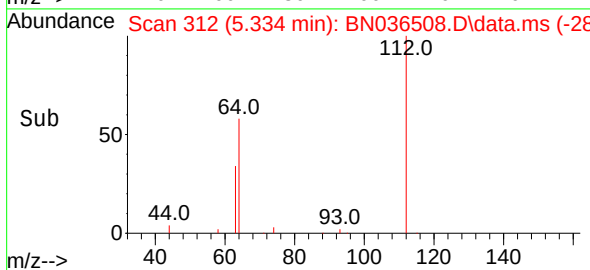
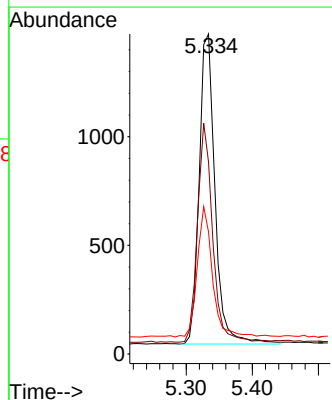
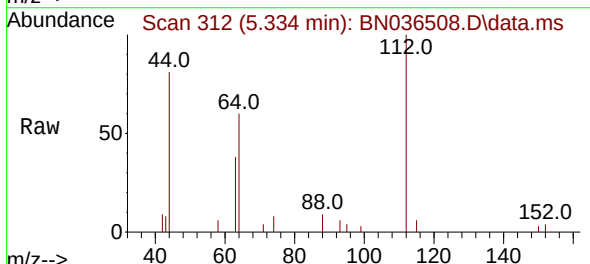
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

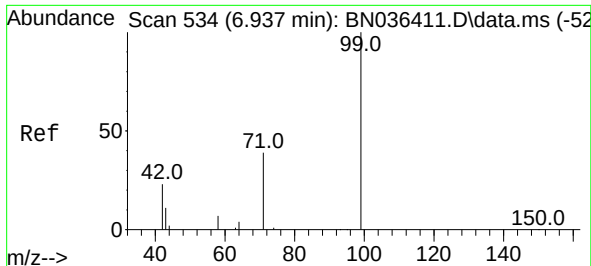
Tgt Ion: 42 Resp: 2267
 Ion Ratio Lower Upper
 42 100
 74 81.6 71.8 107.6
 44 8.6 7.8 11.6



#4
 2-Fluorophenol
 Concen: 0.363 ng
 RT: 5.334 min Scan# 312
 Delta R.T. -0.014 min
 Lab File: BN036508.D
 Acq: 26 Feb 2025 13:43

Tgt Ion: 112 Resp: 2377
 Ion Ratio Lower Upper
 112 100
 64 67.5 53.4 80.0
 63 40.8 30.3 45.5

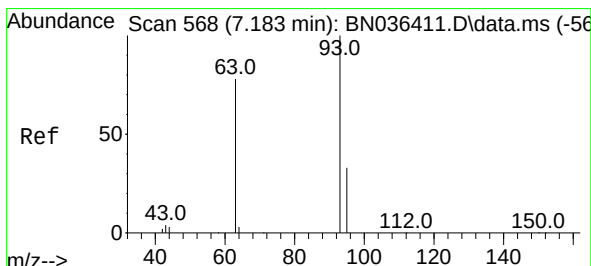
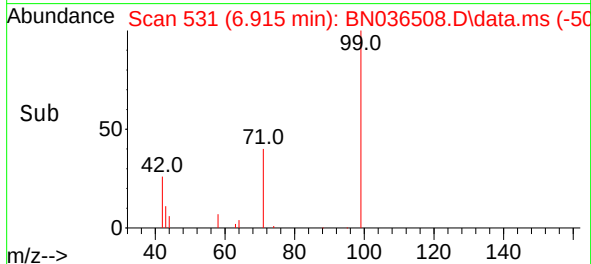
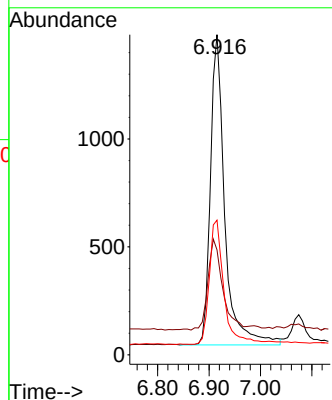
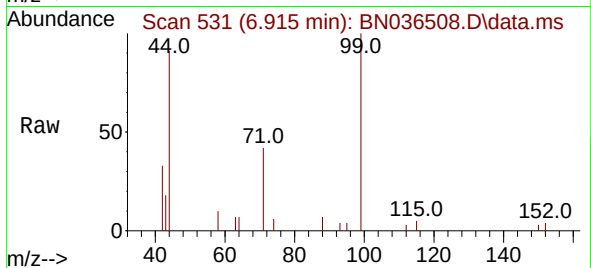




#5
Phenol-d6
Concen: 0.361 ng
RT: 6.915 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

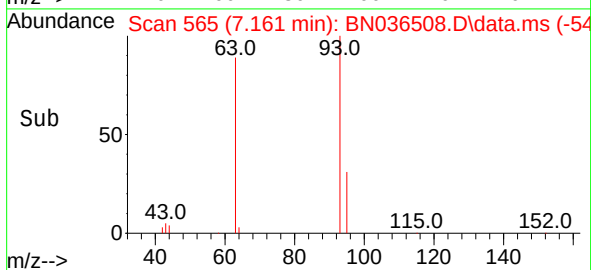
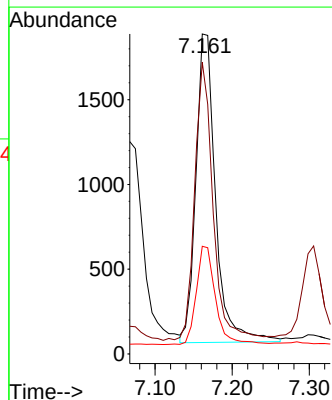
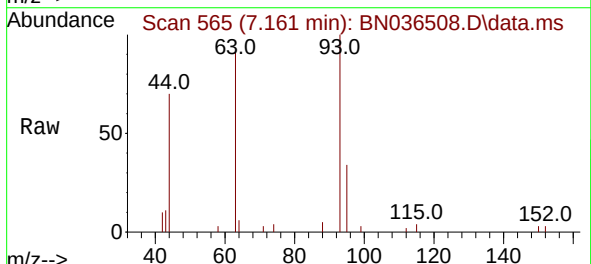
Instrument :
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ClientSampleId :
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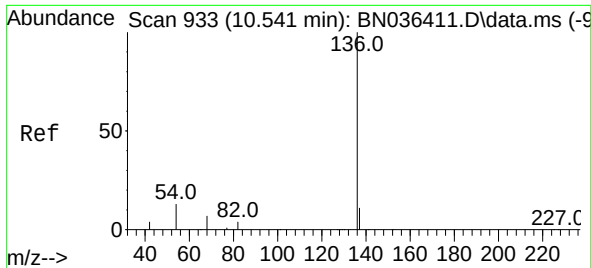
Tgt Ion:	99	Resp:	2776
Ion Ratio	Lower	Upper	
99	100		
42	30.0	21.7	32.5
71	40.6	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 7.161 min Scan# 565
Delta R.T. -0.022 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:	93	Resp:	3244
Ion Ratio	Lower	Upper	
93	100		
63	83.8	66.3	99.5
95	31.1	26.2	39.4

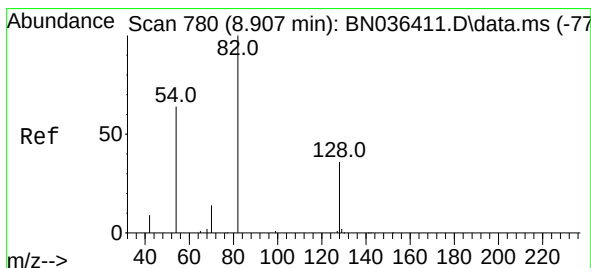
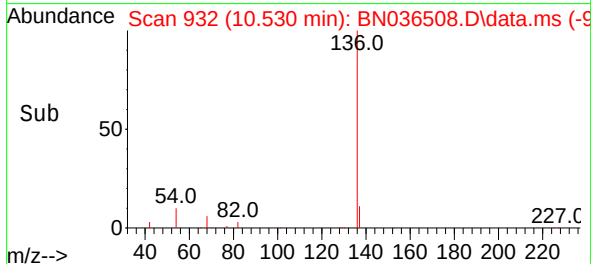
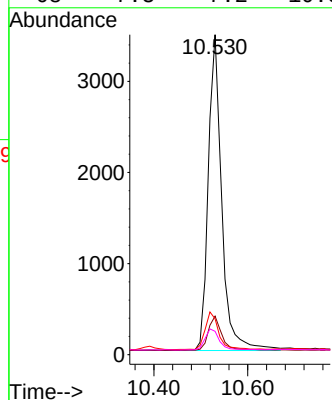
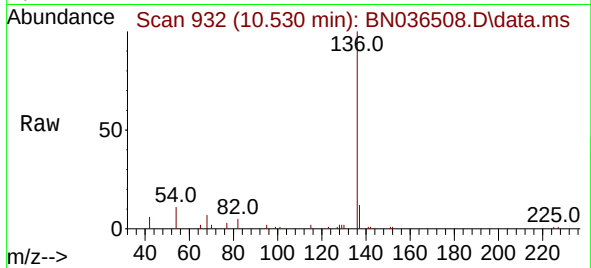




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

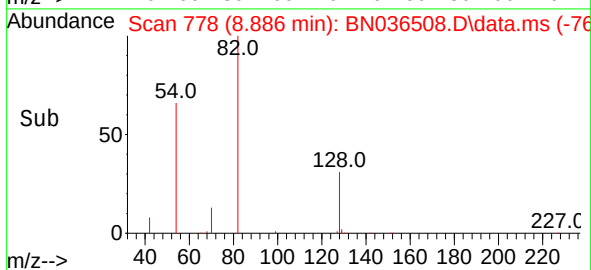
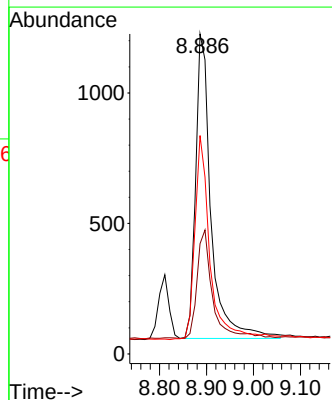
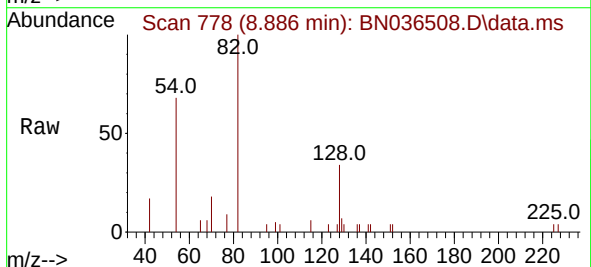
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ClientSampleId :
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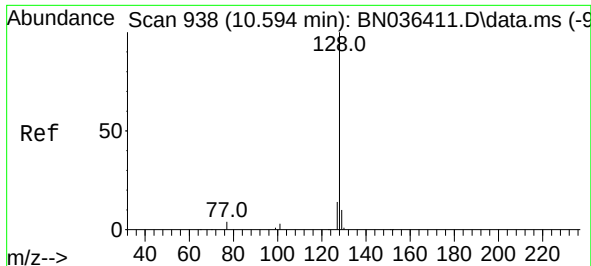
Tgt Ion:136	Resp:	6909
Ion Ratio	Lower	Upper
136	100	
137	12.1	10.1 15.1
54	11.2	11.8 17.6#
68	7.3	7.2 10.8



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.886 min Scan# 778
Delta R.T. -0.021 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion: 82	Resp:	2668
Ion Ratio	Lower	Upper
82	100	
128	34.4	31.9 47.9
54	68.3	53.1 79.7

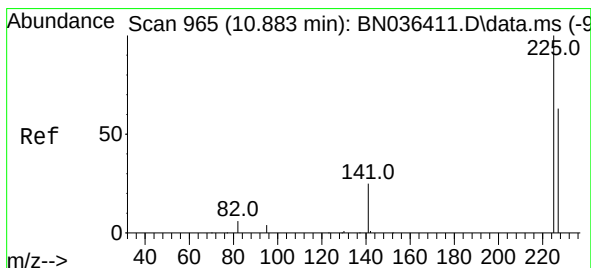
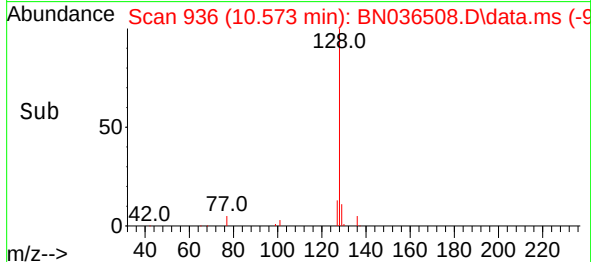
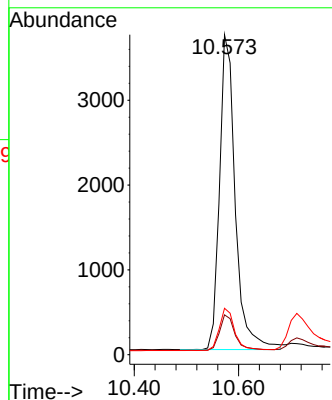
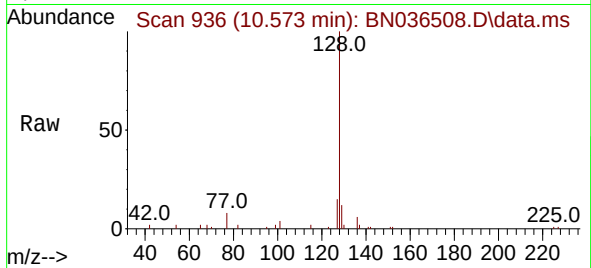




#9
Naphthalene
Concen: 0.390 ng
RT: 10.573 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

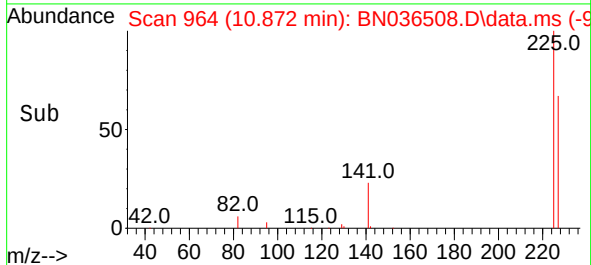
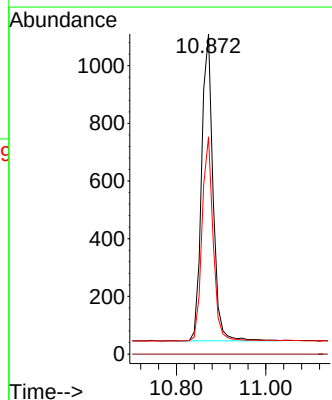
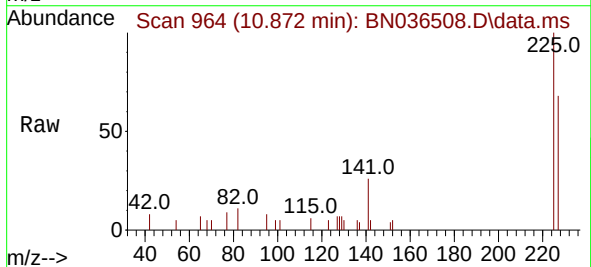
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

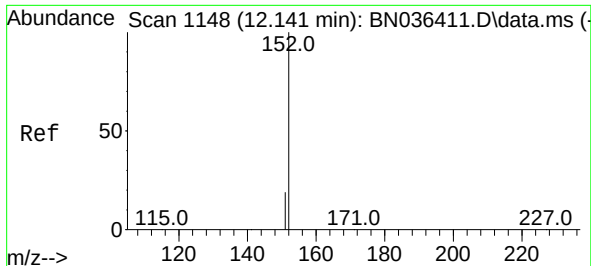
Tgt Ion:128 Resp: 7777
Ion Ratio Lower Upper
128 100
129 12.5 9.6 14.4
127 14.5 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.389 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:225 Resp: 1886
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.9 50.9 76.3





#11

2-Methylnaphthalene-d10

Concen: 0.386 ng

RT: 12.126 min Scan# 1145

Delta R.T. -0.015 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

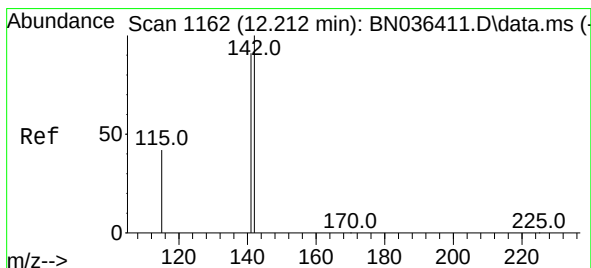
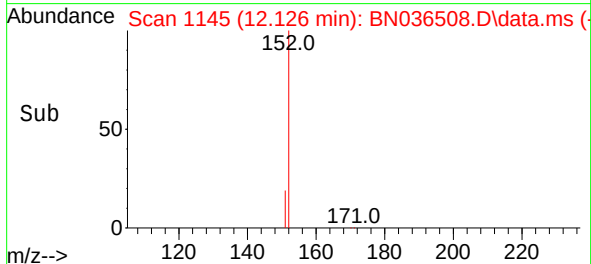
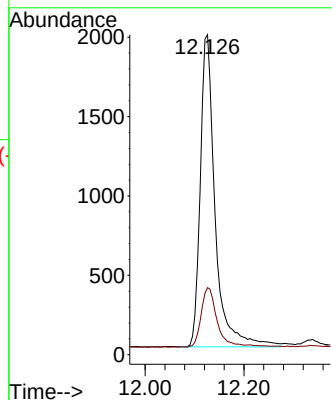
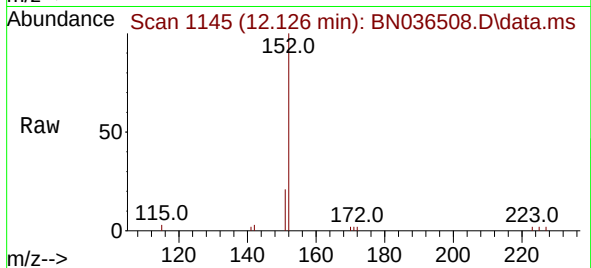
SSTDCCC0.4

Tgt Ion:152 Resp: 4099

Ion Ratio Lower Upper

152 100

151 20.2 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.386 ng

RT: 12.197 min Scan# 1159

Delta R.T. -0.015 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

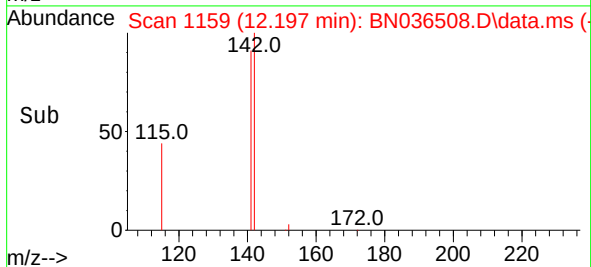
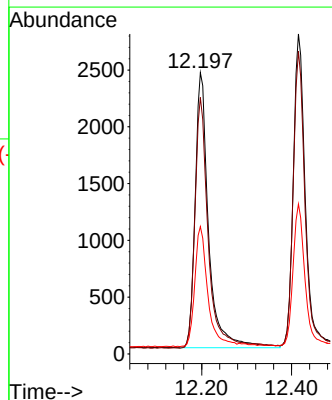
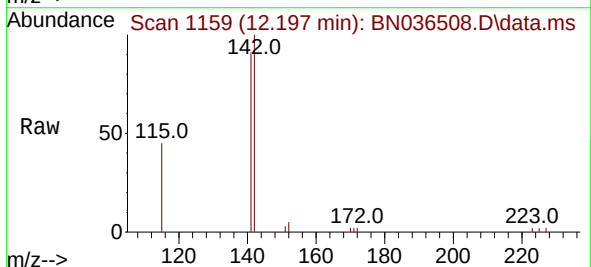
Tgt Ion:142 Resp: 5047

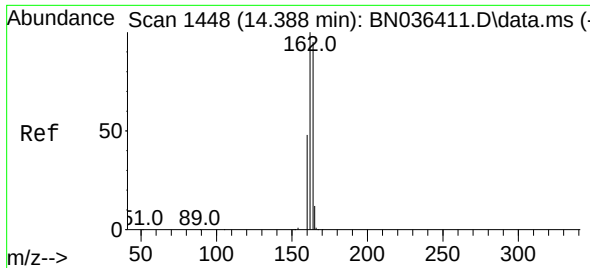
Ion Ratio Lower Upper

142 100

141 91.2 72.8 109.2

115 45.3 35.5 53.3

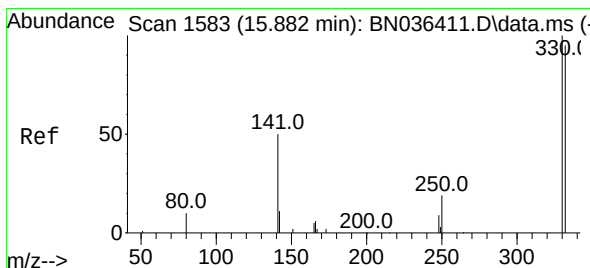
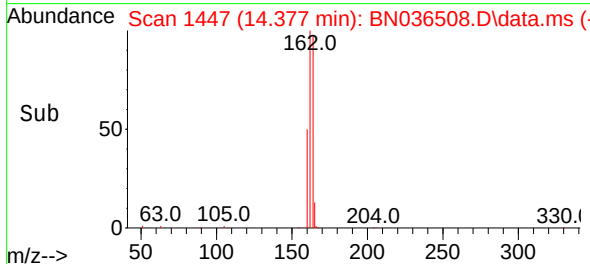
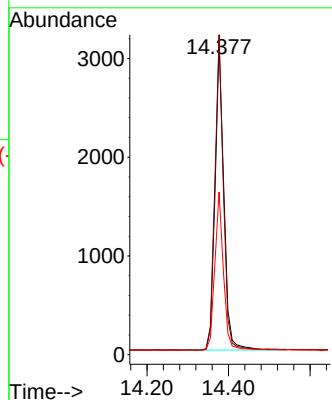
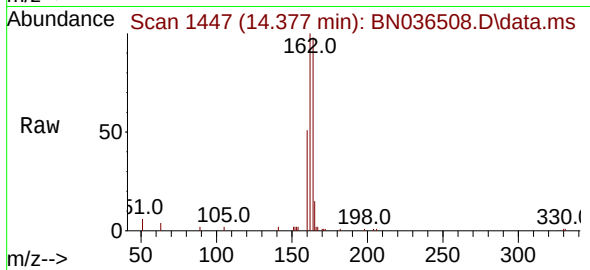




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

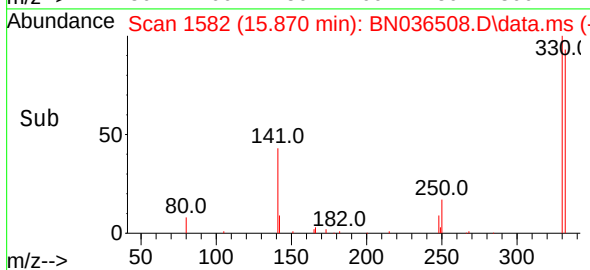
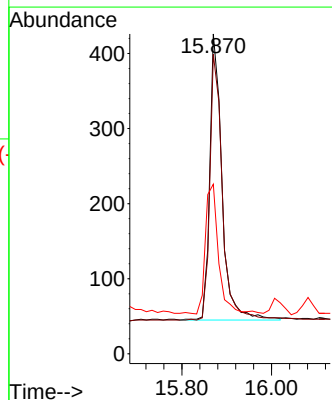
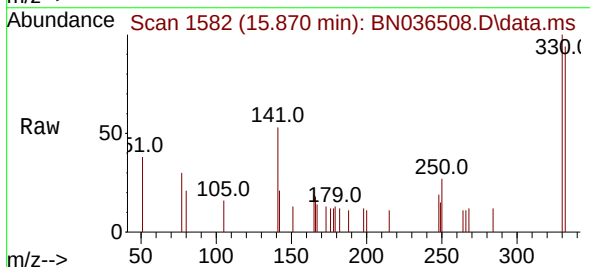
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

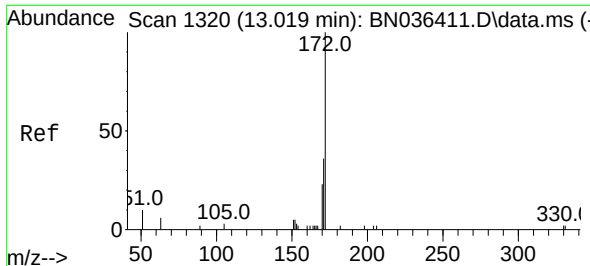
Tgt Ion:164 Resp: 4680
Ion Ratio Lower Upper
164 100
162 102.2 84.1 126.1
160 51.9 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.310 ng
RT: 15.870 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:330 Resp: 719
Ion Ratio Lower Upper
330 100
332 95.0 76.6 114.8
141 47.8 37.8 56.8





#15

2-Fluorobiphenyl

Concen: 0.444 ng

RT: 13.003 min Scan# 141

Delta R.T. -0.016 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

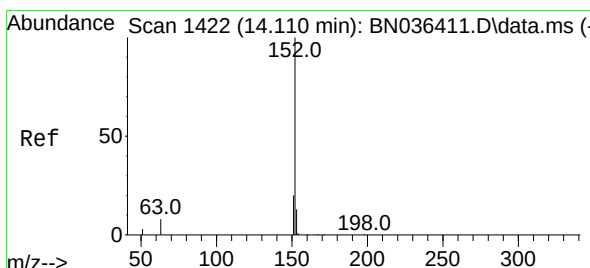
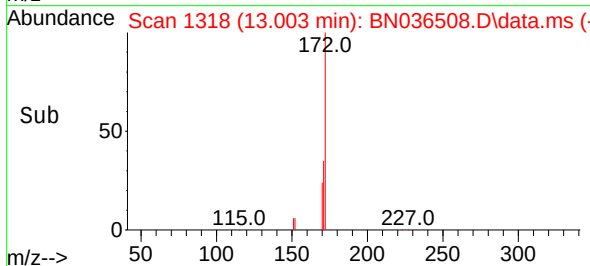
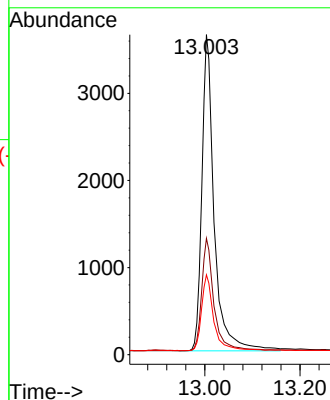
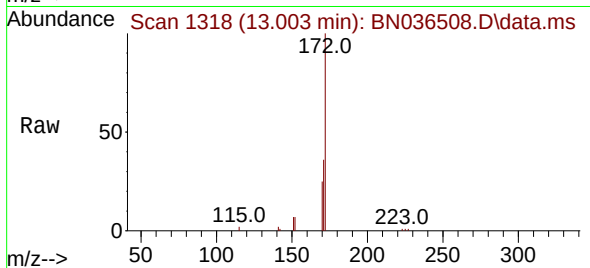
Tgt Ion:172 Resp: 7811

Ion Ratio Lower Upper

172 100

171 36.3 29.6 44.4

170 25.0 19.8 29.6



#16

Acenaphthylene

Concen: 0.382 ng

RT: 14.099 min Scan# 1421

Delta R.T. -0.011 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

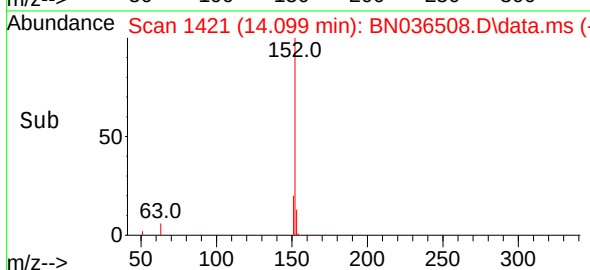
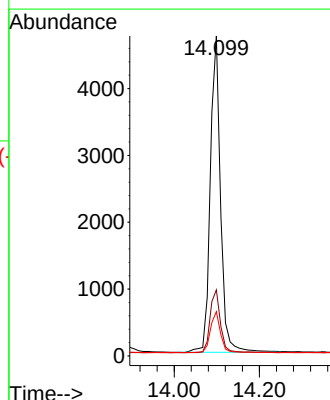
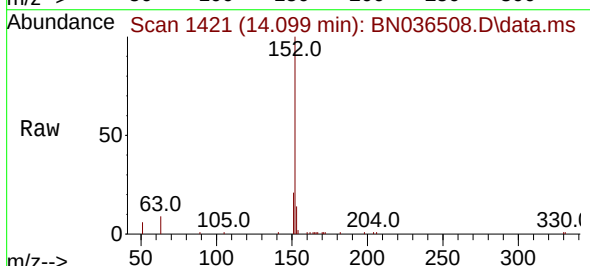
Tgt Ion:152 Resp: 7894

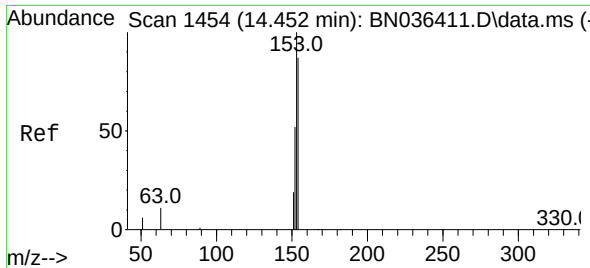
Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.8

153 12.8 10.2 15.2

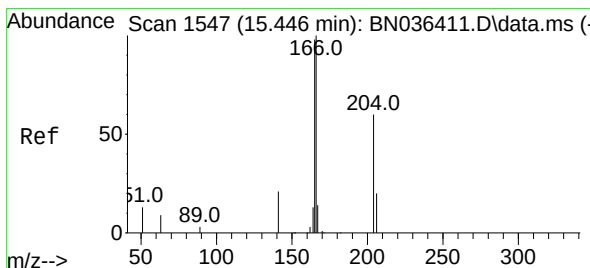
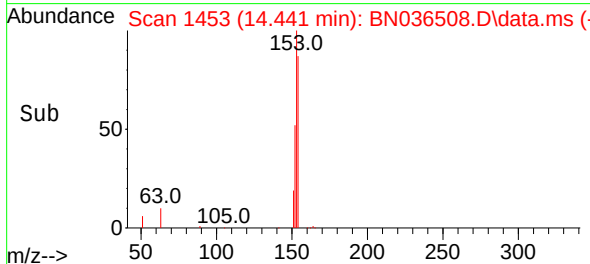
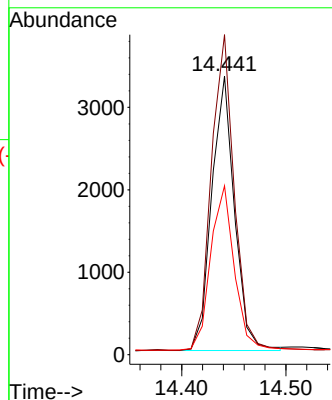
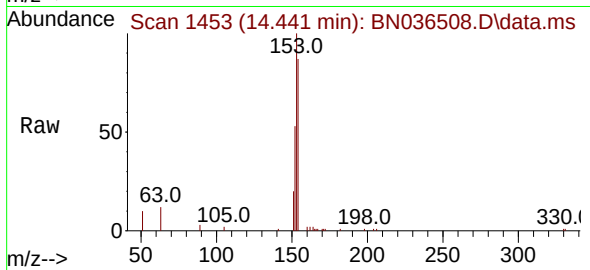




#17
Acenaphthene
Concen: 0.366 ng
RT: 14.441 min Scan# 1453
Delta R.T. -0.011 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

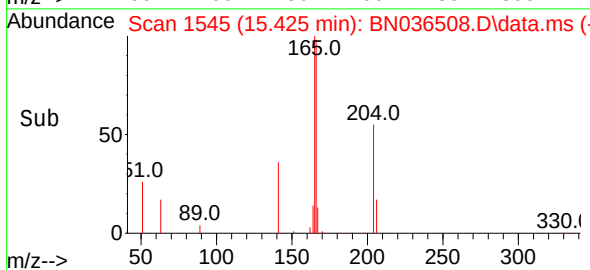
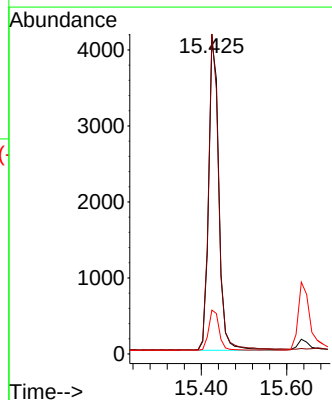
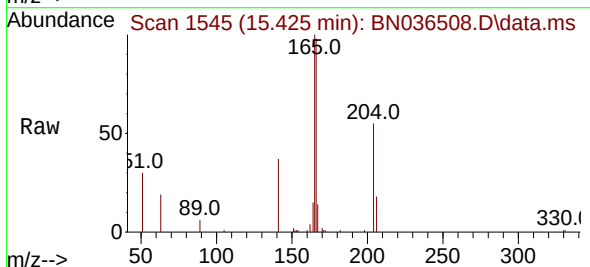
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

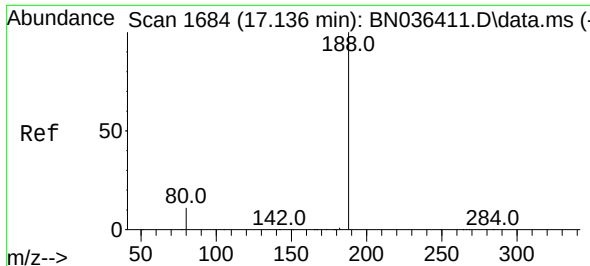
Tgt Ion:154	Resp:	5057
Ion Ratio	Lower	Upper
154	100	
153	117.0	93.3 139.9
152	63.2	48.8 73.2



#18
Fluorene
Concen: 0.362 ng
RT: 15.425 min Scan# 1545
Delta R.T. -0.021 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:166	Resp:	7106
Ion Ratio	Lower	Upper
166	100	
165	99.3	79.5 119.3
167	12.7	10.4 15.6





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.124 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

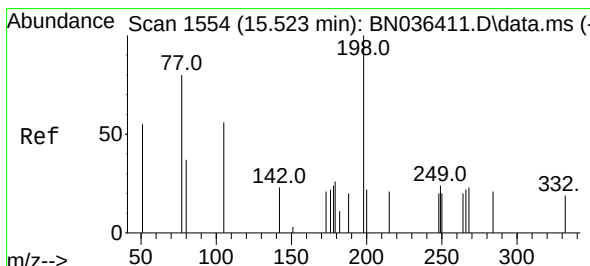
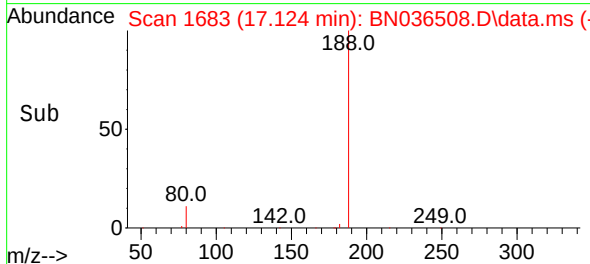
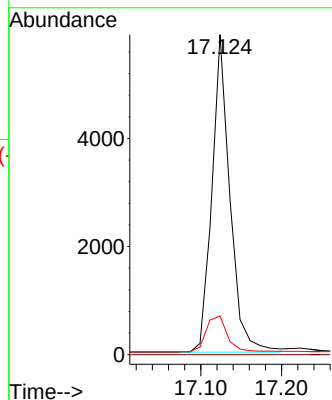
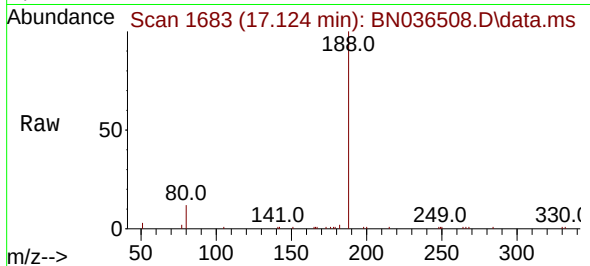
Tgt Ion:188 Resp: 9092

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 9.8 14.6



#20

4,6-Dinitro-2-methylphenol

Concen: 0.307 ng

RT: 15.510 min Scan# 1553

Delta R.T. -0.013 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

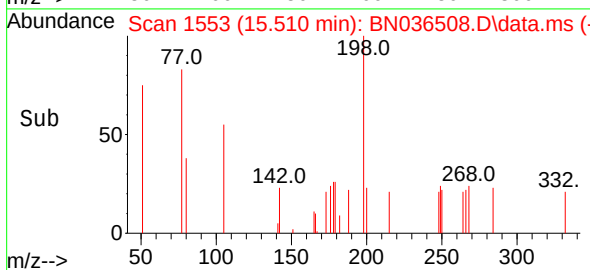
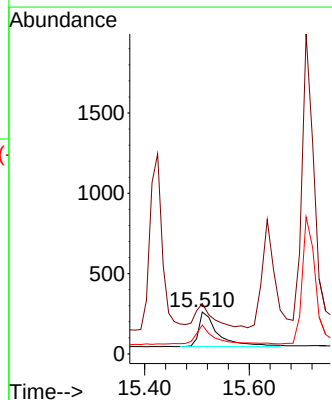
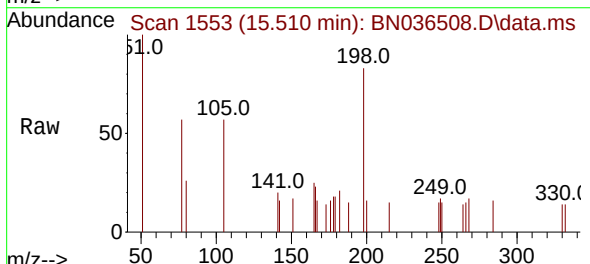
Tgt Ion:198 Resp: 548

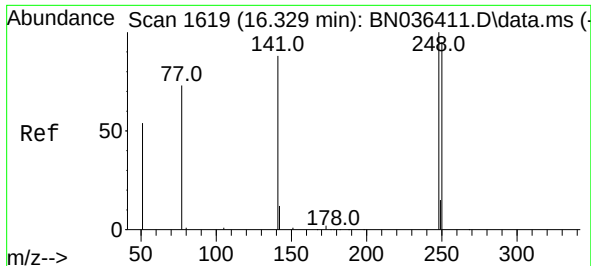
Ion Ratio Lower Upper

198 100

51 120.3 86.6 129.8

105 69.0 57.5 86.3

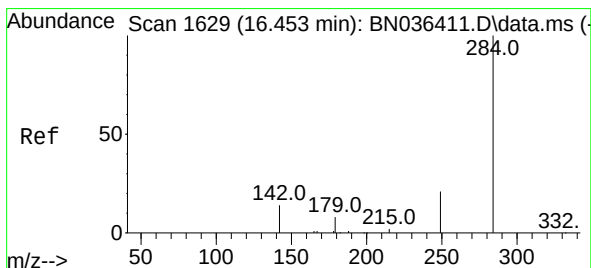
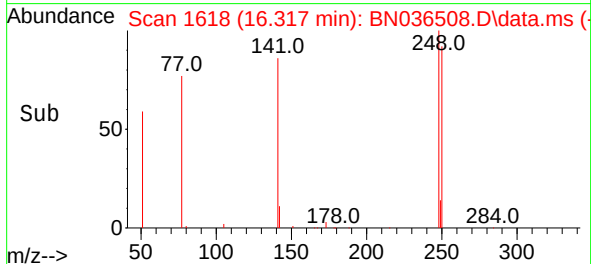
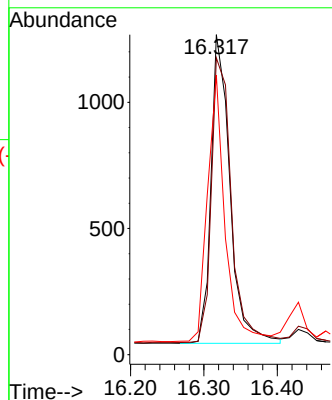
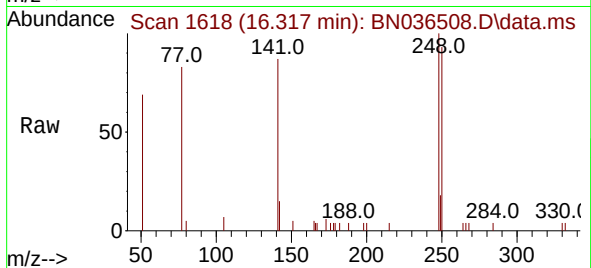




#21
4-Bromophenyl-phenylether
Concen: 0.404 ng
RT: 16.317 min Scan# 1618
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

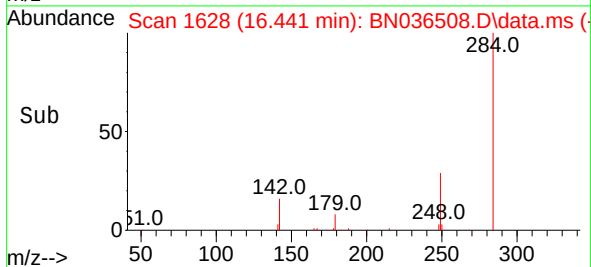
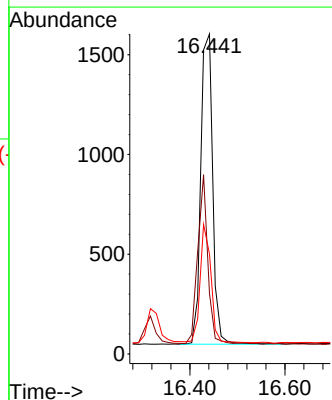
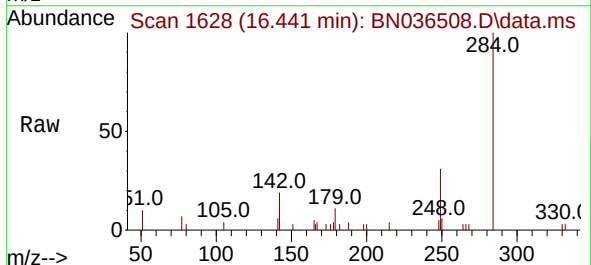
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

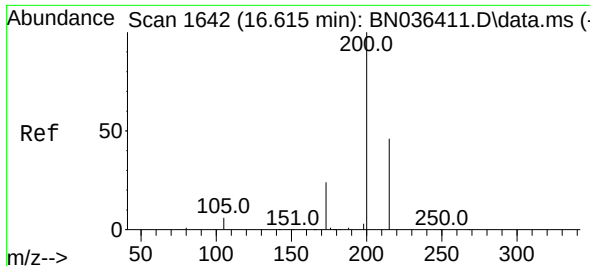
Tgt Ion:	248	Resp:	2189
Ion Ratio	Lower	Upper	
248	100		
250	92.7	76.1	114.1
141	87.4	71.7	107.5



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:	284	Resp:	2720
Ion Ratio	Lower	Upper	
284	100		
142	46.4	33.4	50.0
249	34.2	28.6	43.0

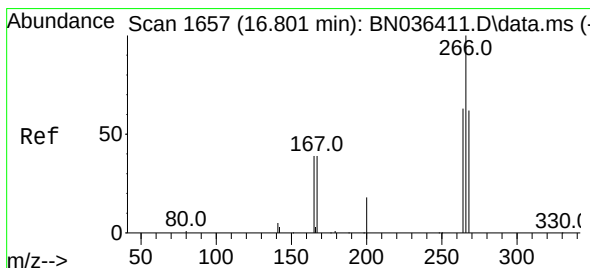
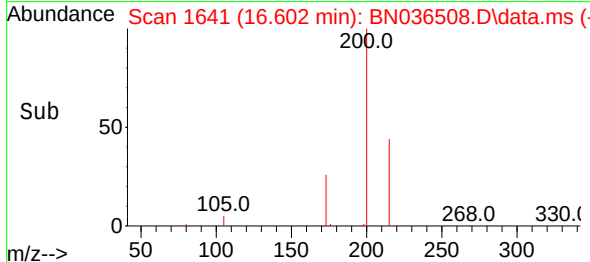
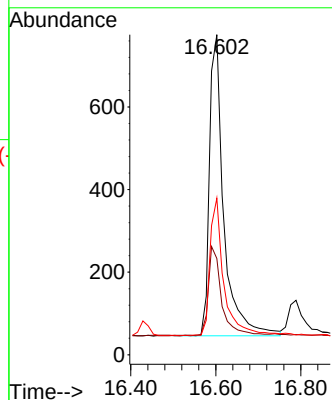
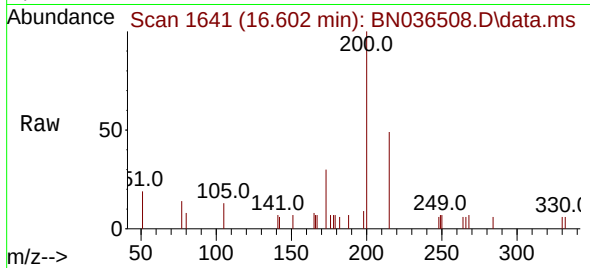




#23
Atrazine
Concen: 0.375 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

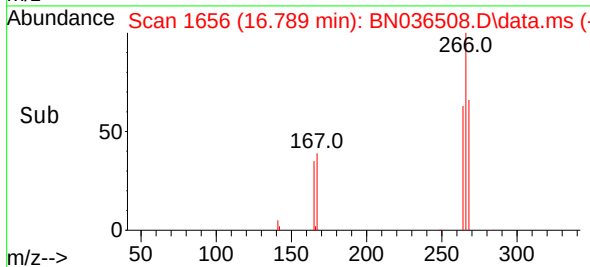
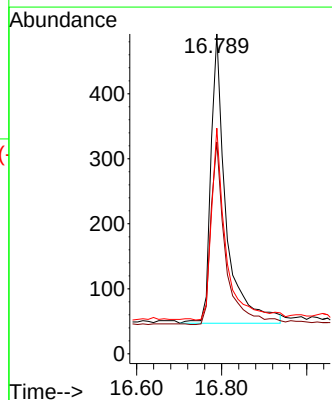
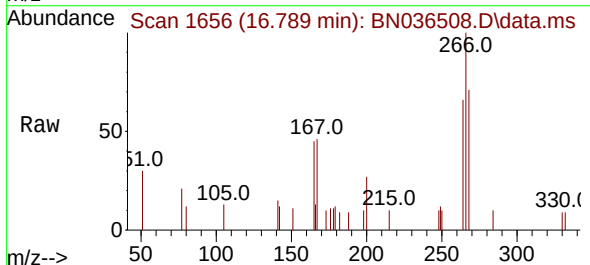
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

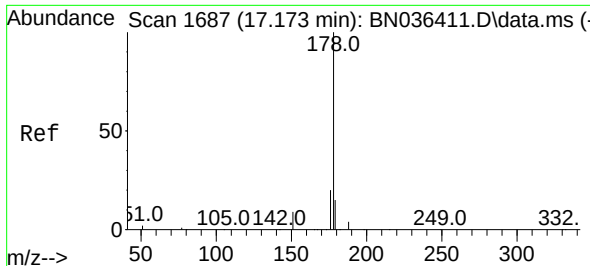
Tgt Ion:200 Resp: 1700
Ion Ratio Lower Upper
200 100
173 30.1 23.2 34.8
215 48.9 40.0 60.0



#24
Pentachlorophenol
Concen: 0.346 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:266 Resp: 1101
Ion Ratio Lower Upper
266 100
264 61.3 50.6 76.0
268 63.4 51.9 77.9

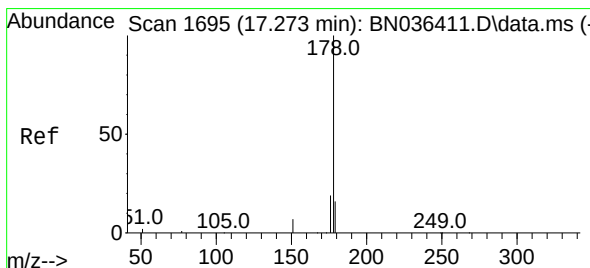
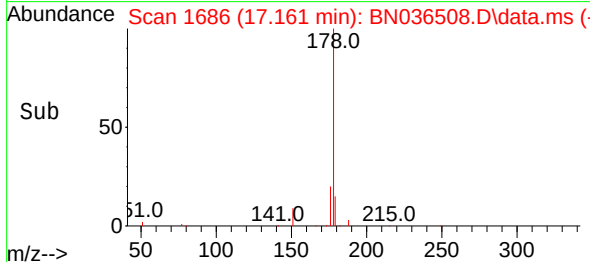
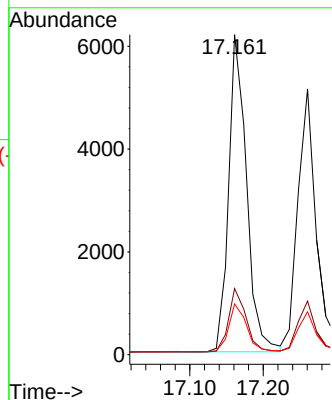
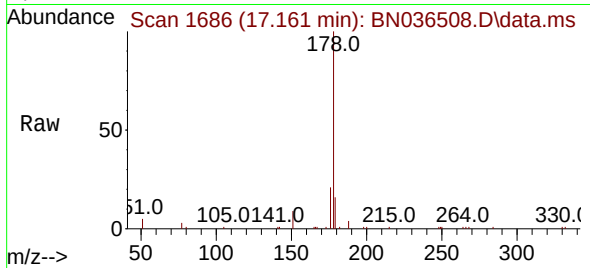




#25
Phenanthrene
Concen: 0.397 ng
RT: 17.161 min Scan# 1686
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

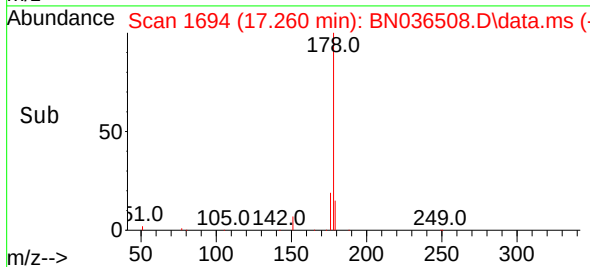
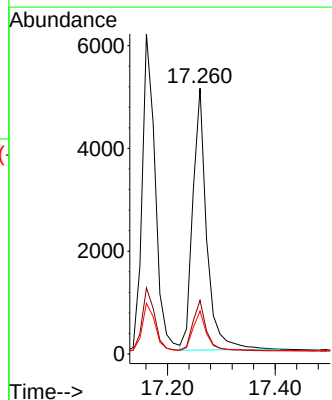
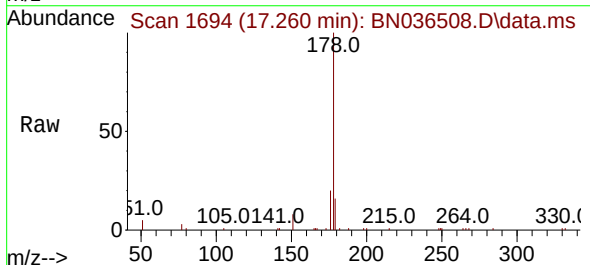
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

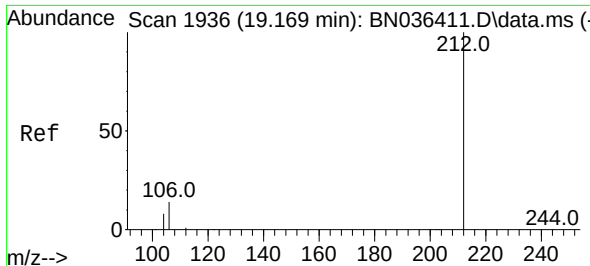
Tgt Ion:178 Resp: 10441
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.2 12.4 18.6



#26
Anthracene
Concen: 0.395 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.012 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:178 Resp: 9164
Ion Ratio Lower Upper
178 100
176 18.9 14.9 22.3
179 15.0 12.4 18.6

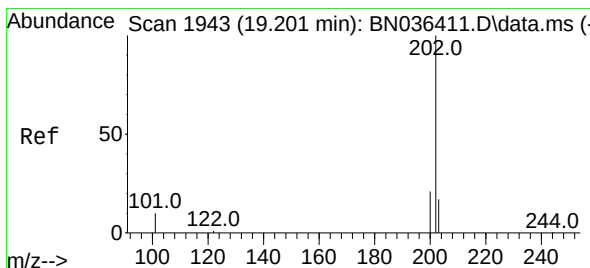
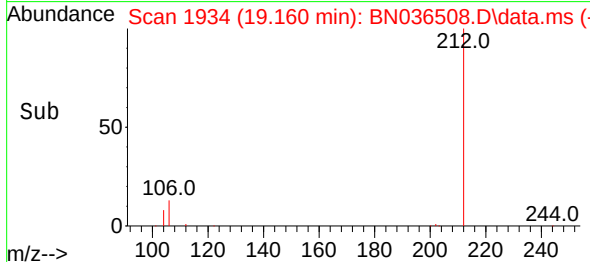
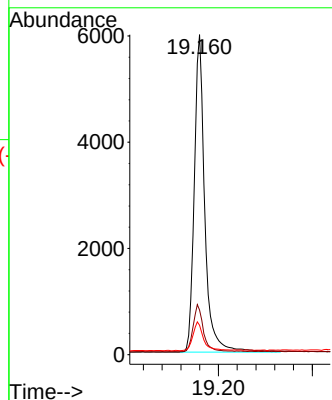
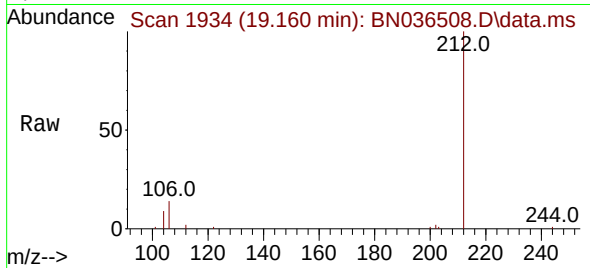




#27
Fluoranthene-d10
Concen: 0.367 ng
RT: 19.160 min Scan# 1936
Delta R.T. -0.009 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

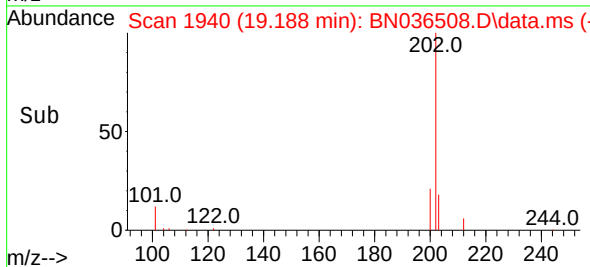
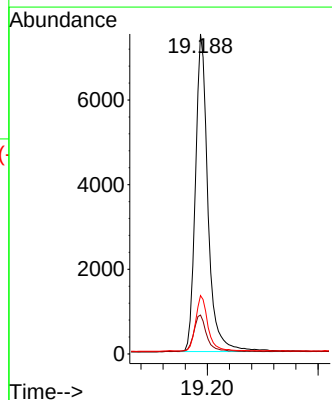
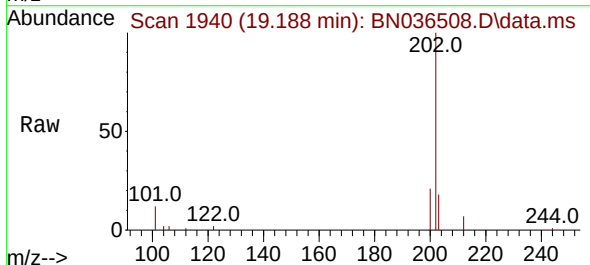
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

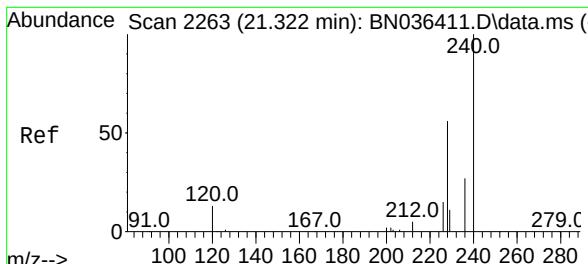
Tgt Ion:212 Resp: 9278
Ion Ratio Lower Upper
212 100
106 14.5 11.5 17.3
104 9.0 7.1 10.7



#28
Fluoranthene
Concen: 0.367 ng
RT: 19.188 min Scan# 1940
Delta R.T. -0.014 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:202 Resp: 11838
Ion Ratio Lower Upper
202 100
101 11.8 9.2 13.8
203 17.1 13.4 20.0

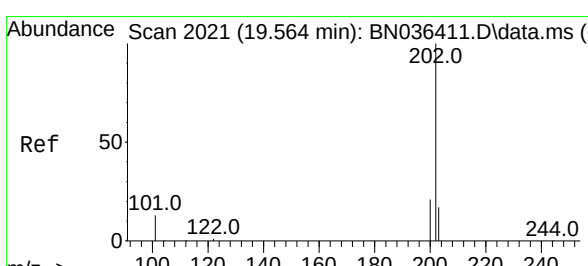
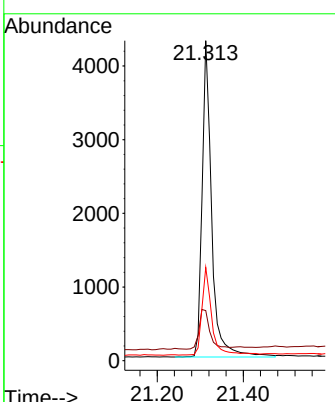
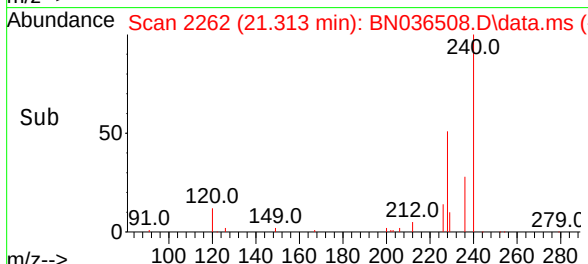
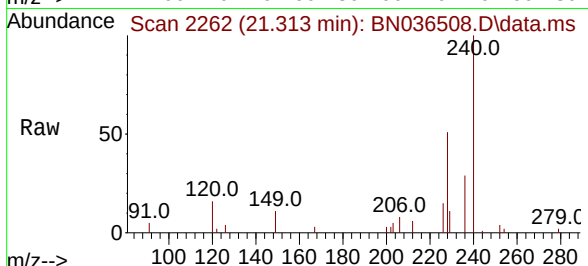




#29
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.313 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036508.D
 Acq: 26 Feb 2025 13:43

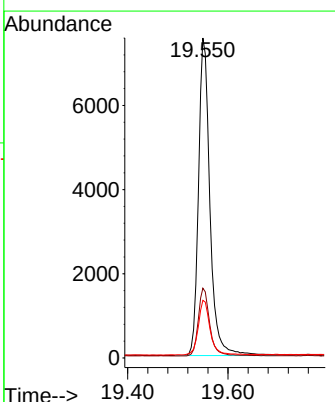
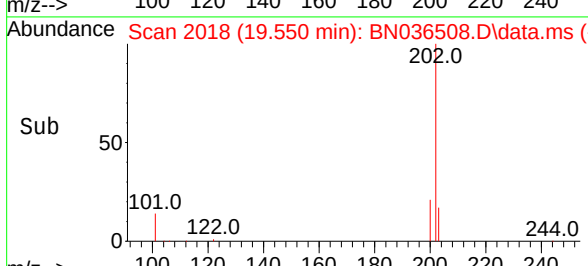
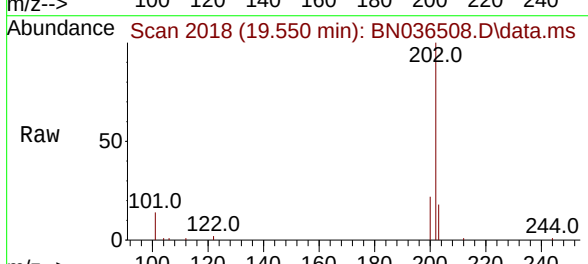
Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4

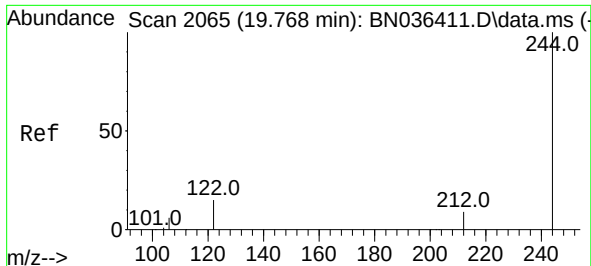
Tgt Ion:	240	Resp:	6639
Ion Ratio	Lower	Upper	
240	100		
120	15.7	13.3	19.9
236	29.1	23.0	34.6



#30
 Pyrene
 Concen: 0.468 ng
 RT: 19.550 min Scan# 2018
 Delta R.T. -0.014 min
 Lab File: BN036508.D
 Acq: 26 Feb 2025 13:43

Tgt Ion:	202	Resp:	11970
Ion Ratio	Lower	Upper	
202	100		
200	21.3	16.9	25.3
203	17.7	13.9	20.9

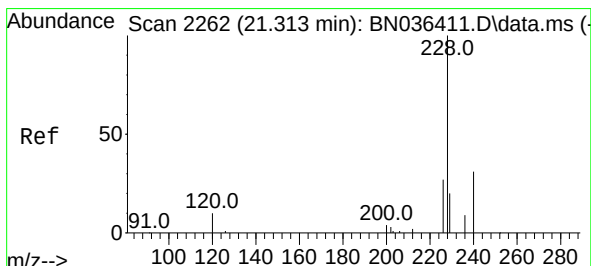
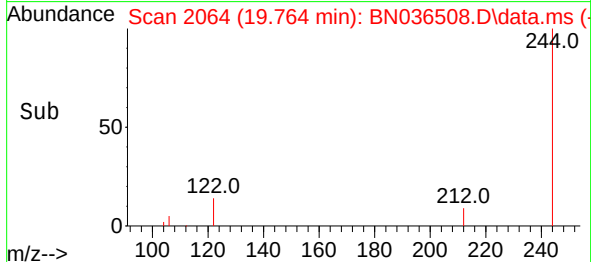
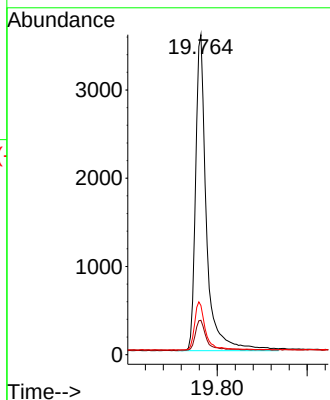
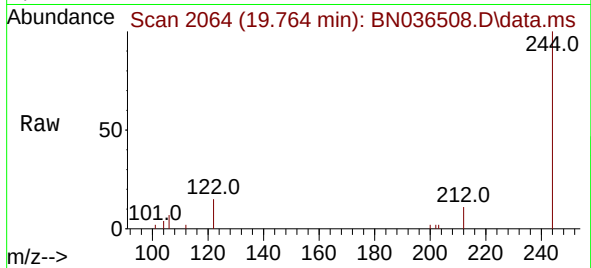




#31
 Terphenyl-d14
 Concen: 0.427 ng
 RT: 19.764 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036508.D
 Acq: 26 Feb 2025 13:43

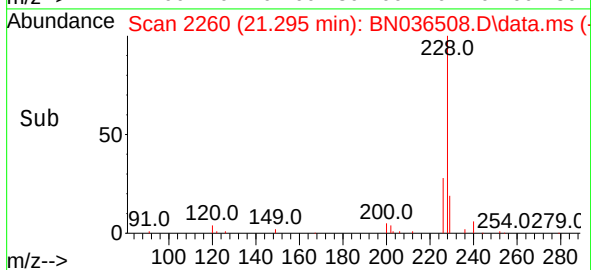
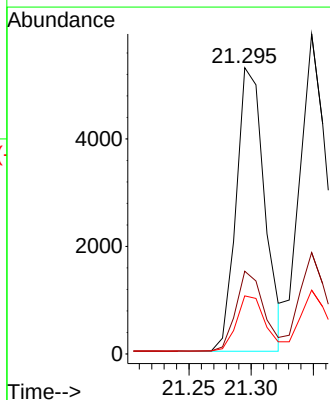
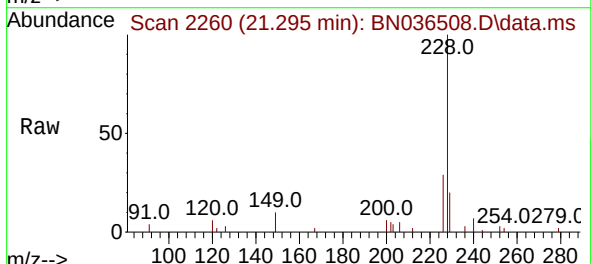
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

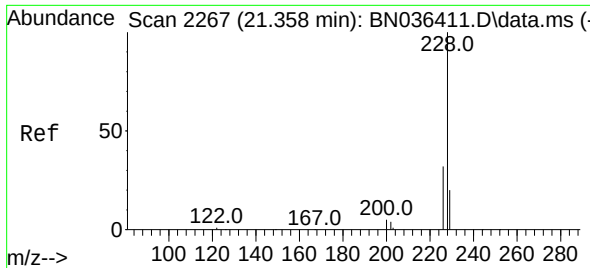
Tgt Ion:244 Resp: 6045
 Ion Ratio Lower Upper
 244 100
 212 10.8 8.1 12.1
 122 15.4 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.384 ng
 RT: 21.295 min Scan# 2260
 Delta R.T. -0.018 min
 Lab File: BN036508.D
 Acq: 26 Feb 2025 13:43

Tgt Ion:228 Resp: 8384
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.2 33.2
 229 20.3 16.5 24.7

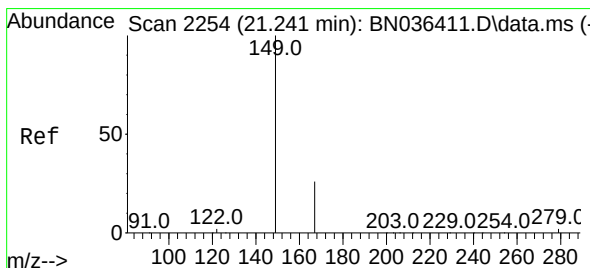
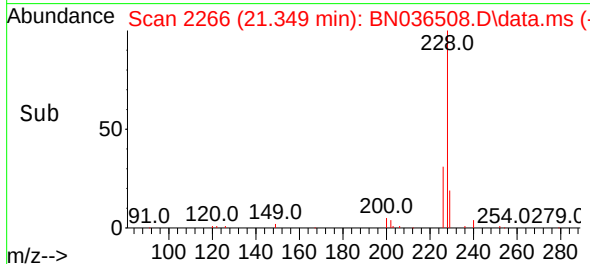
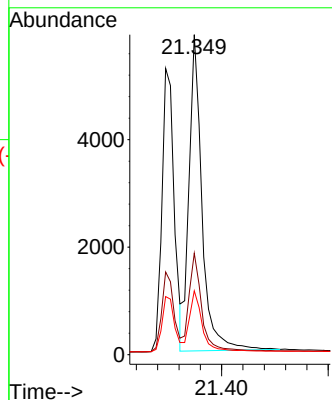
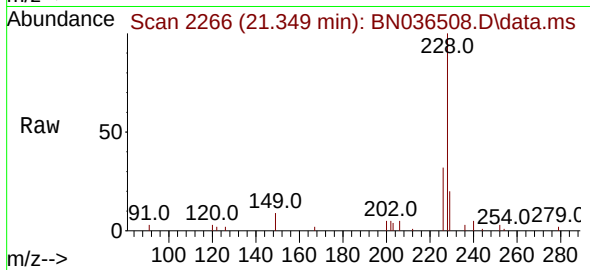




#33
Chrysene
Concen: 0.420 ng
RT: 21.349 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

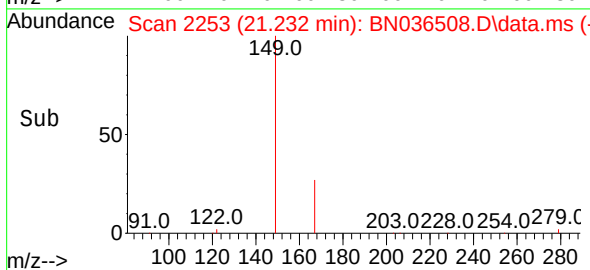
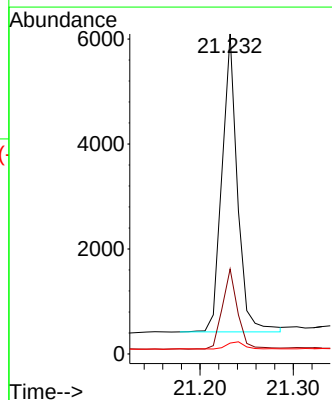
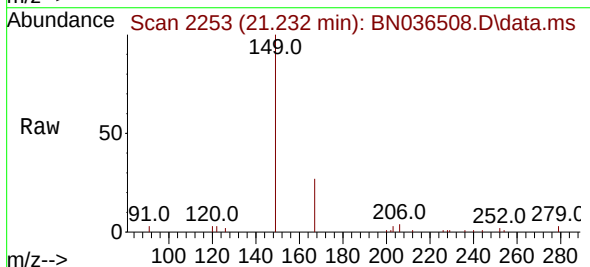
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

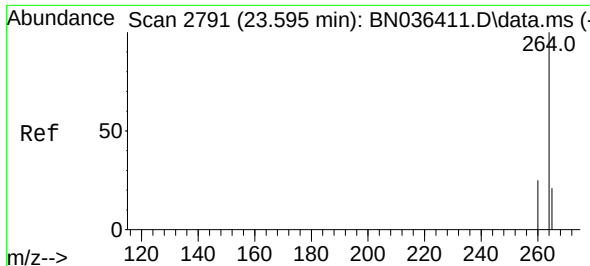
Tgt Ion:228 Resp: 9942
Ion Ratio Lower Upper
228 100
226 31.7 25.5 38.3
229 19.9 16.4 24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.479 ng
RT: 21.232 min Scan# 2253
Delta R.T. -0.009 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:149 Resp: 6526
Ion Ratio Lower Upper
149 100
167 26.6 21.2 31.8
279 2.7 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.581 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN036508.D

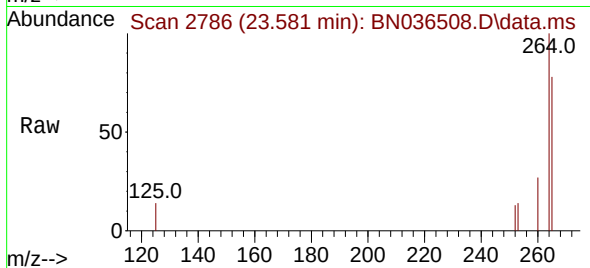
Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



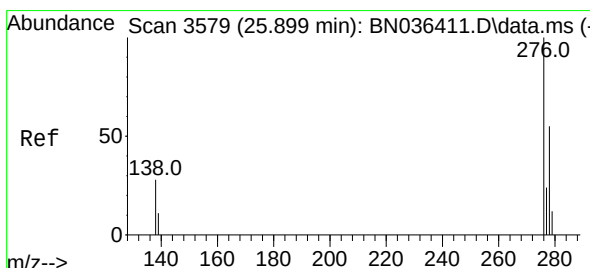
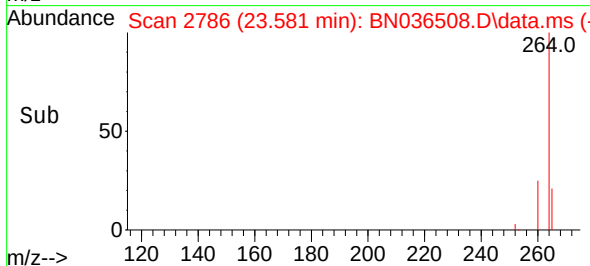
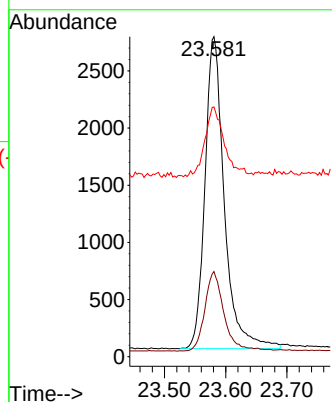
Tgt Ion:264 Resp: 6000

Ion Ratio Lower Upper

264 100

260 26.6 20.9 31.3

265 78.1 60.7 91.1



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.372 ng

RT: 25.879 min Scan# 3572

Delta R.T. -0.020 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

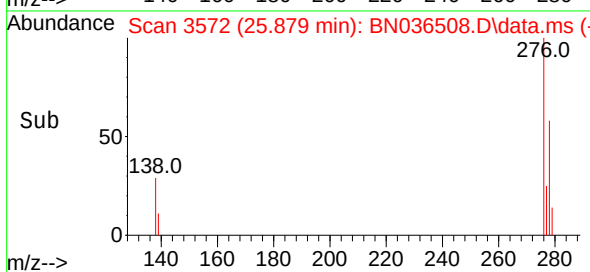
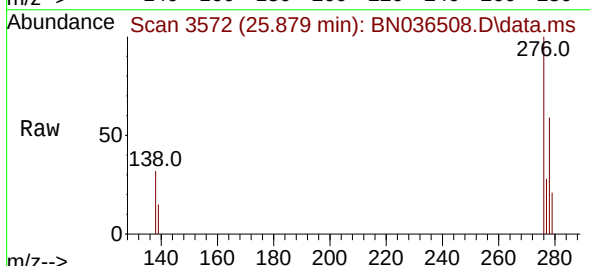
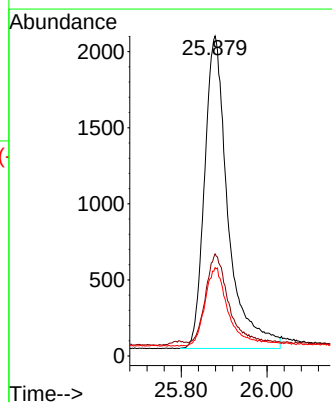
Tgt Ion:276 Resp: 7809

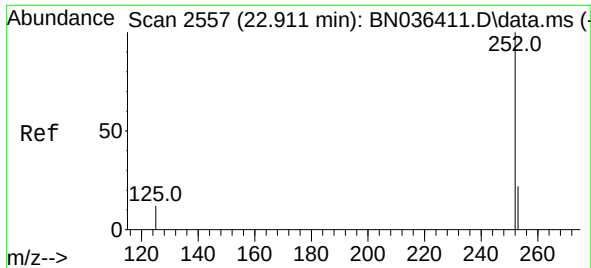
Ion Ratio Lower Upper

276 100

138 26.5 22.2 33.2

277 24.2 19.8 29.6

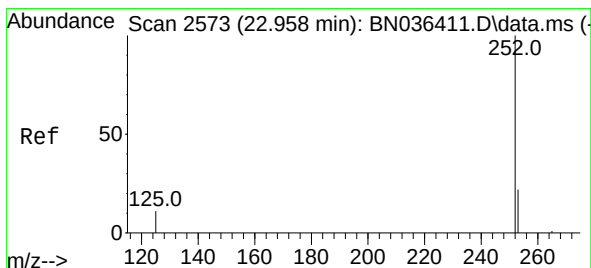
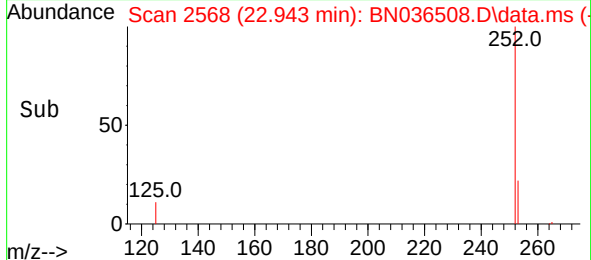
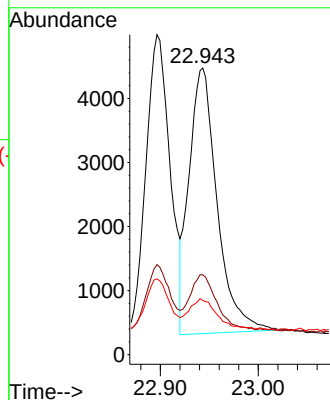
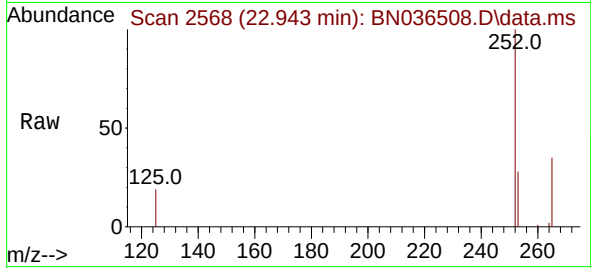




#37
Benzo(b)fluoranthene
Concen: 0.419 ng
RT: 22.943 min Scan# 2568
Delta R.T. 0.032 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

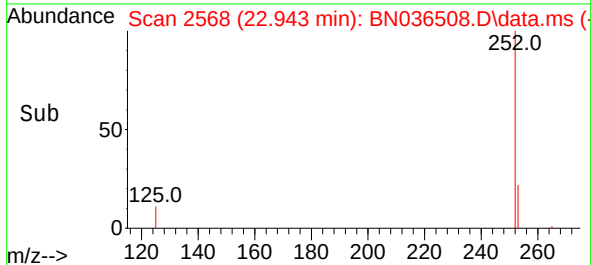
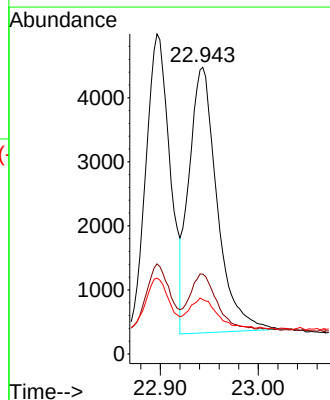
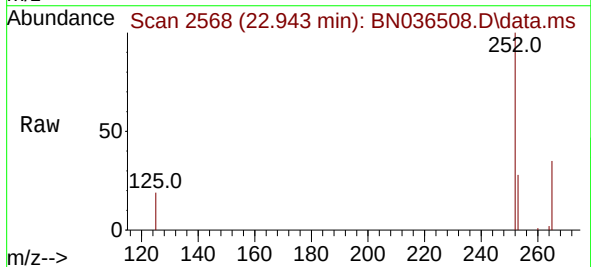
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

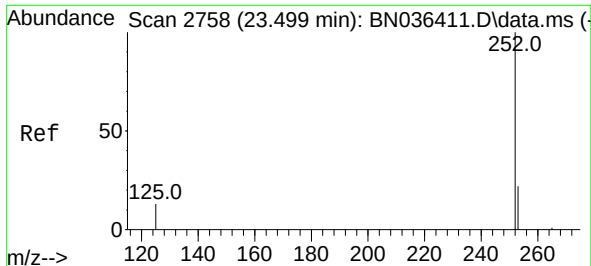
Tgt Ion:252	Resp:	8277
Ion Ratio	Lower	Upper
252	100	
253	27.9	21.9 32.9
125	19.0	15.0 22.6



#38
Benzo(k)fluoranthene
Concen: 0.407 ng
RT: 22.943 min Scan# 2568
Delta R.T. -0.015 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Tgt Ion:252	Resp:	8277
Ion Ratio	Lower	Upper
252	100	
253	27.9	22.2 33.4
125	19.0	15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.421 ng

RT: 23.481 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

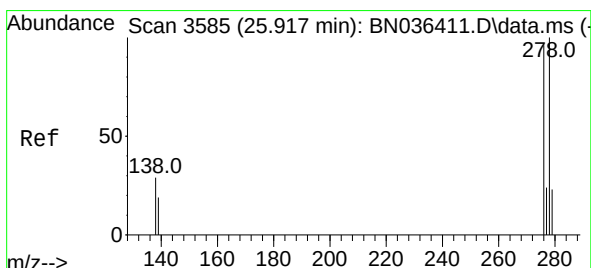
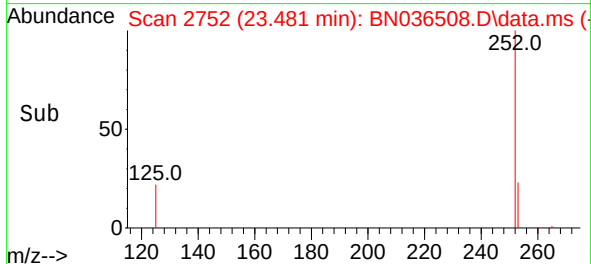
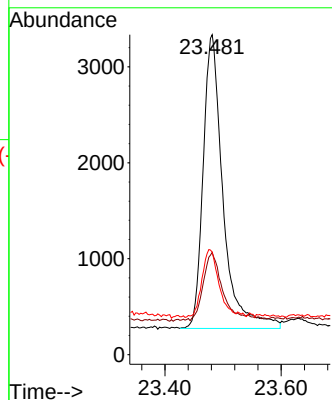
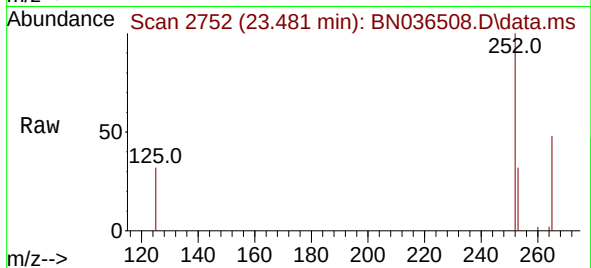
Tgt Ion:252 Resp: 7264

Ion Ratio Lower Upper

252 100

253 32.0 24.4 36.6

125 32.1 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.357 ng

RT: 25.896 min Scan# 3578

Delta R.T. -0.020 min

Lab File: BN036508.D

Acq: 26 Feb 2025 13:43

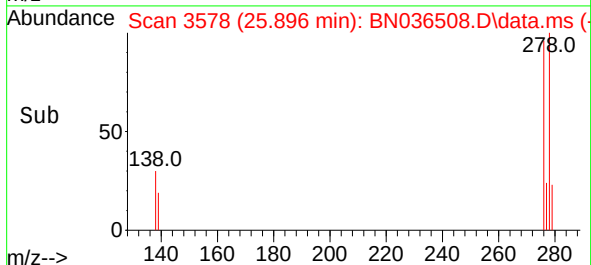
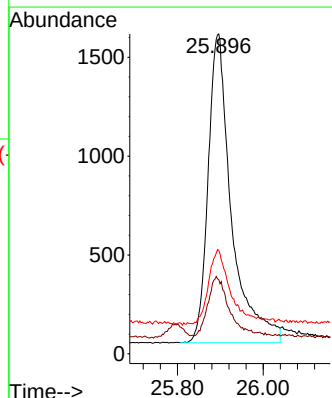
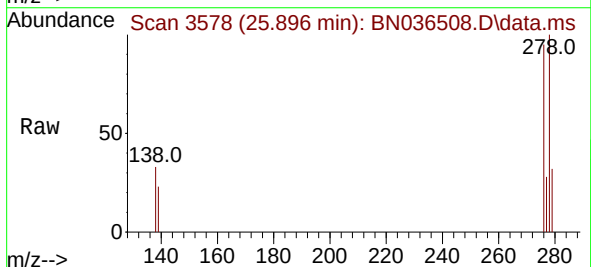
Tgt Ion:278 Resp: 5914

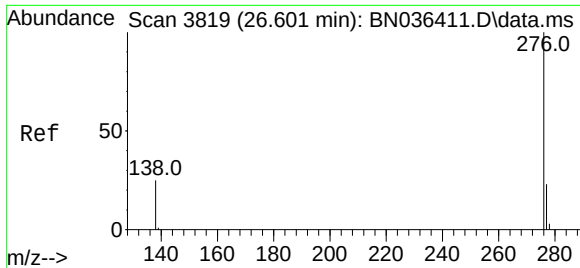
Ion Ratio Lower Upper

278 100

139 23.2 18.5 27.7

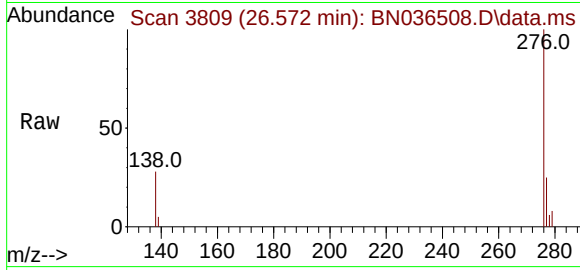
279 32.3 24.8 37.2



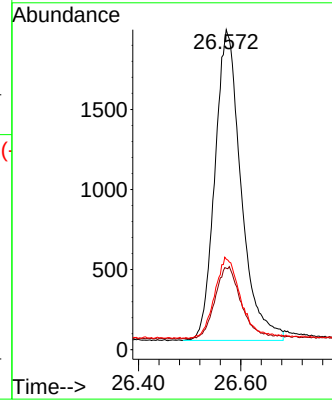
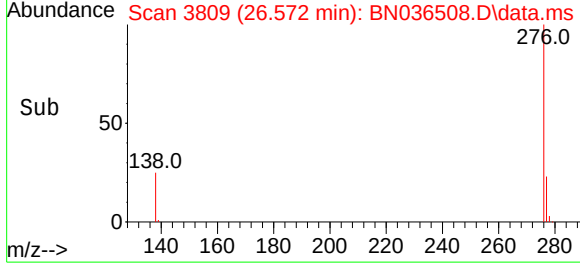


#41
Benzo(g,h,i)perylene
Concen: 0.367 ng
RT: 26.572 min Scan# 3809
Delta R.T. -0.029 min
Lab File: BN036508.D
Acq: 26 Feb 2025 13:43

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:	276	Resp:	6890
Ion	Ratio	Lower	Upper
276	100		
277	25.4	20.7	31.1
138	28.3	21.8	32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036511.D
 Acq On : 26 Feb 2025 15:31
 Operator : RC/JU
 Sample : Q1423-03
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250221

Quant Time: Feb 26 15:55:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

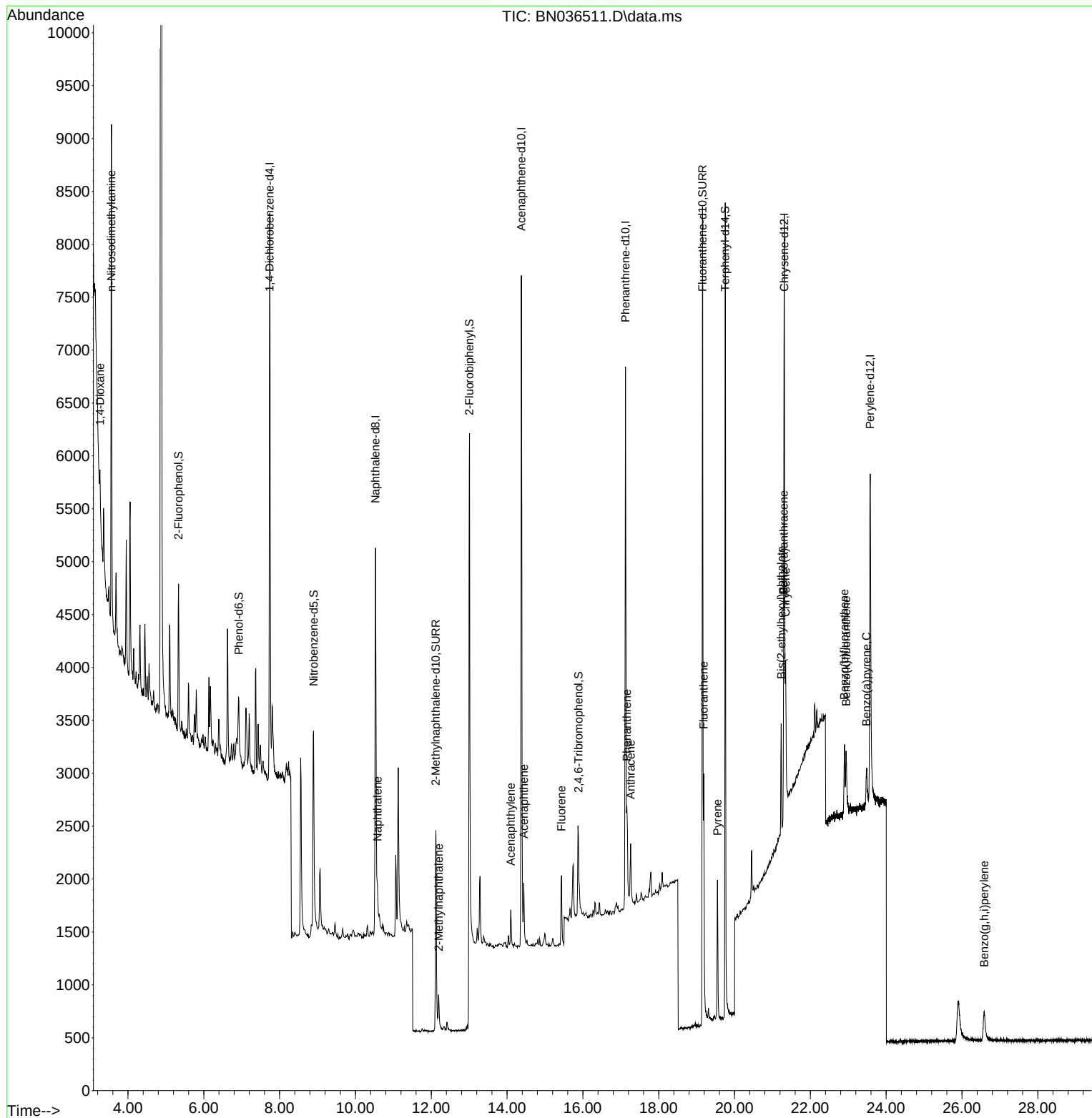
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2561	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5724	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	3696	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	7691	0.400	ng	-0.01
29) Chrysene-d12	21.313	240	5768	0.400	ng	0.00
35) Perylene-d12	23.578	264	5083	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	957	0.158	ng	-0.01
5) Phenol-d6	6.923	99	596	0.084	ng	-0.01
8) Nitrobenzene-d5	8.897	82	2065	0.366	ng	-0.01
11) 2-Methylnaphthalene-d10	12.121	152	3255	0.370	ng	-0.02
14) 2,4,6-Tribromophenol	15.882	330	623	0.340	ng	0.00
15) 2-Fluorobiphenyl	13.003	172	6877	0.495	ng	-0.02
27) Fluoranthene-d10	19.155	212	9001	0.421	ng	-0.01
31) Terphenyl-d14	19.754	244	7770	0.631	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.261	88	149	0.053	ng	# 27
3) n-Nitrosodimethylamine	3.557	42	504	0.104	ng	# 5
9) Naphthalene	10.584	128	434	0.026	ng	# 55
12) 2-Methylnaphthalene	12.197	142	240	0.022	ng	# 82
16) Acenaphthylene	14.099	152	415	0.025	ng	# 91
17) Acenaphthene	14.441	154	256	0.023	ng	98
18) Fluorene	15.435	166	446	0.029	ng	# 96
25) Phenanthrene	17.161	178	886	0.040	ng	95
26) Anthracene	17.260	178	719	0.037	ng	97
28) Fluoranthene	19.187	202	1310	0.048	ng	# 64
30) Pyrene	19.550	202	1284	0.058	ng	99
32) Benzo(a)anthracene	21.295	228	913	0.048	ng	# 89
33) Chrysene	21.348	228	1129	0.055	ng	# 92
34) Bis(2-ethylhexyl)phtha...	21.232	149	962	0.081	ng	# 94
37) Benzo(b)fluoranthene	22.899	252	902	0.054	ng	# 29
38) Benzo(k)fluoranthene	22.943	252	779	0.045	ng	# 19
39) Benzo(a)pyrene	23.481	252	818	0.056	ng	# 6
41) Benzo(g,h,i)perylene	26.583	276	699	0.044	ng	# 56

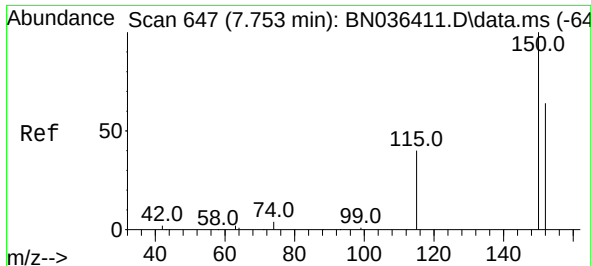
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036511.D
Acq On : 26 Feb 2025 15:31
Operator : RC/JU
Sample : Q1423-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

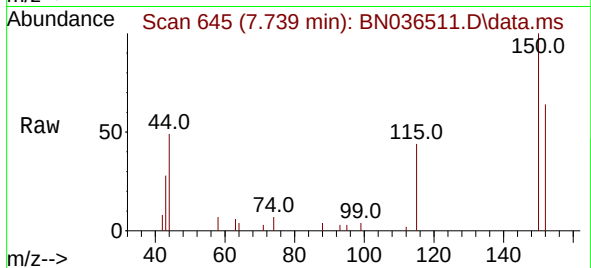
Quant Time: Feb 26 15:55:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration



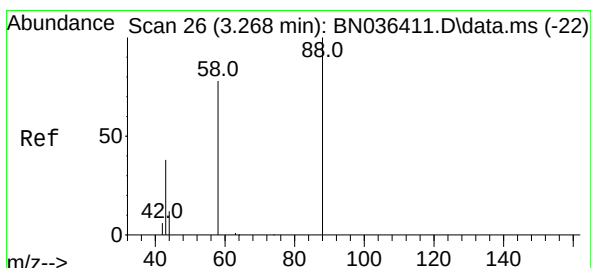
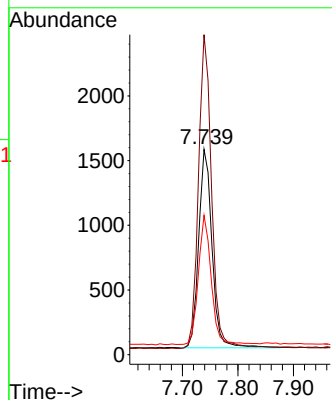
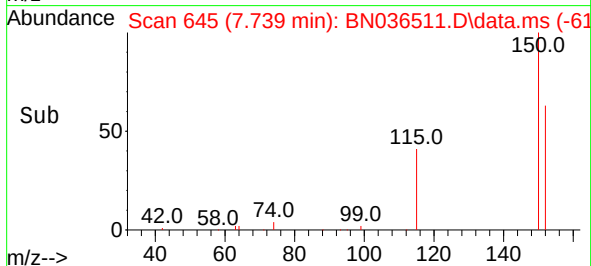


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

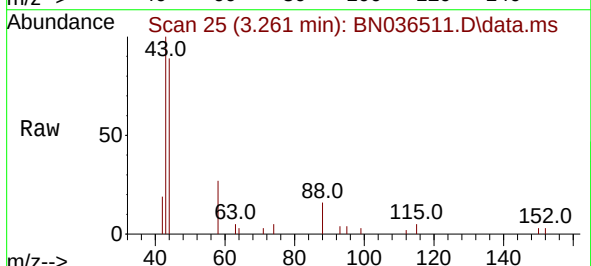
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221



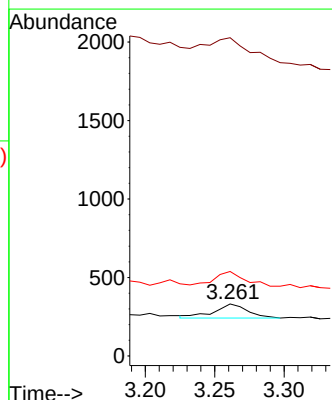
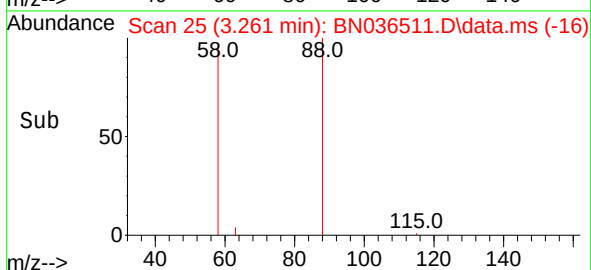
Tgt Ion:152 Resp: 2561
Ion Ratio Lower Upper
152 100
150 155.8 123.7 185.5
115 67.9 52.5 78.7

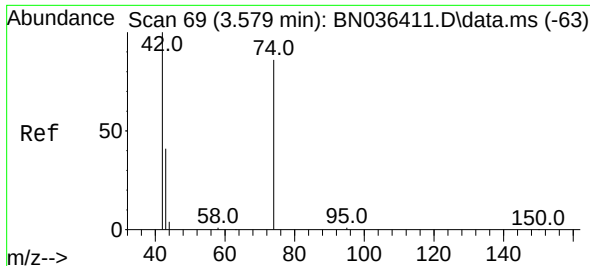


#2
1,4-Dioxane
Concen: 0.053 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31



Tgt Ion: 88 Resp: 149
Ion Ratio Lower Upper
88 100
43 173.8 33.7 50.5#
58 91.9 68.9 103.3

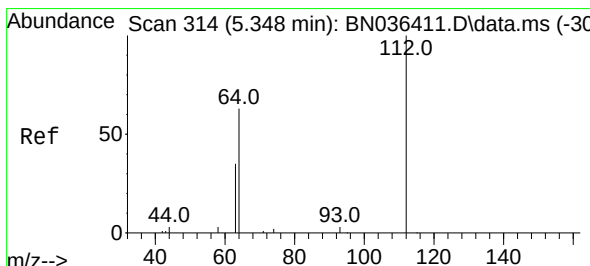
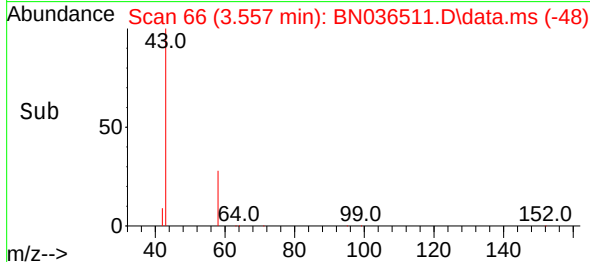
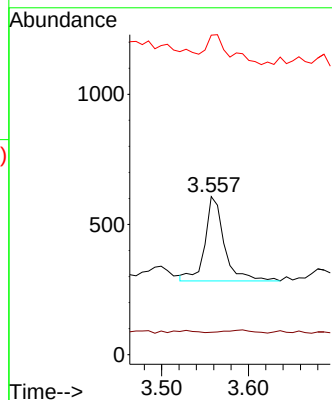
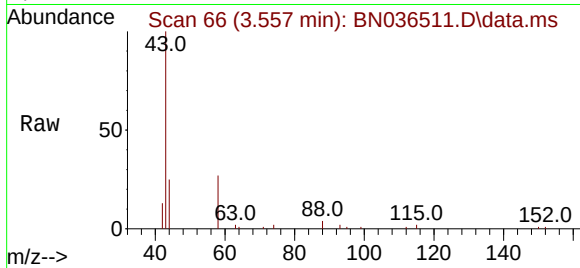




#3
n-Nitrosodimethylamine
Concen: 0.104 ng
RT: 3.557 min Scan# 61
Delta R.T. -0.022 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

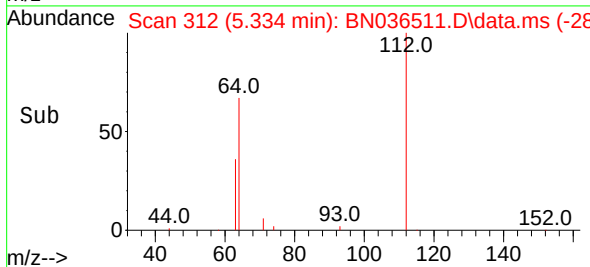
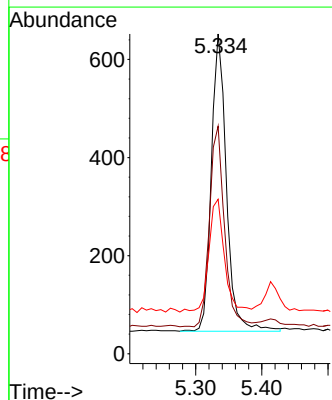
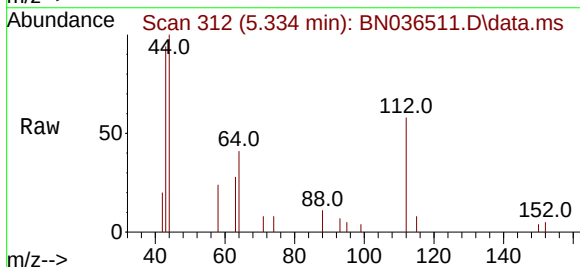
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

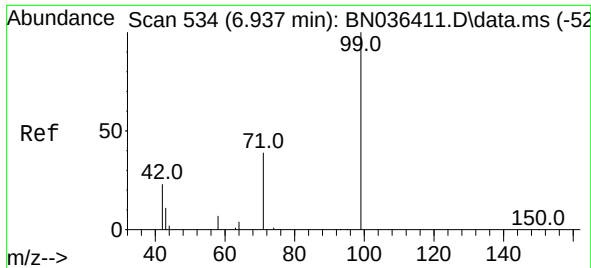
Tgt Ion: 42 Resp: 504
Ion Ratio Lower Upper
42 100
74 0.0 71.8 107.6#
44 41.7 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.158 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion: 112 Resp: 957
Ion Ratio Lower Upper
112 100
64 66.5 53.4 80.0
63 39.4 30.3 45.5

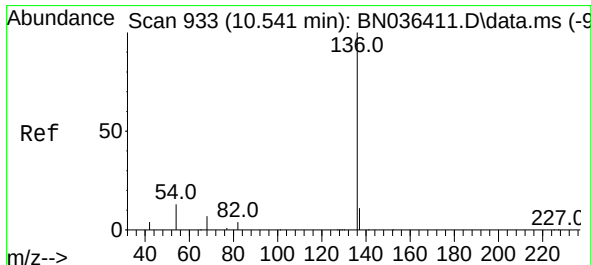
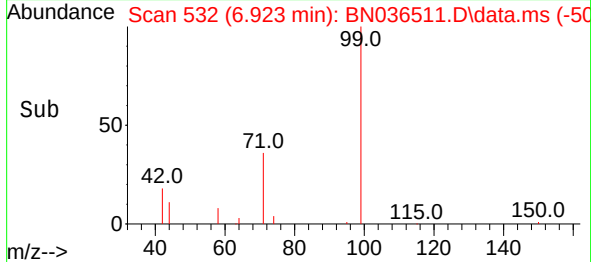
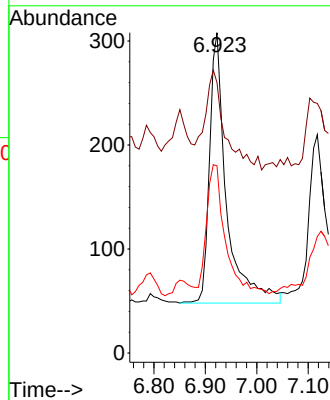
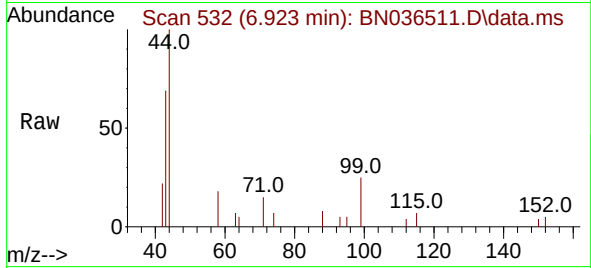




#5
Phenol-d6
Concen: 0.084 ng
RT: 6.923 min Scan# 534
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

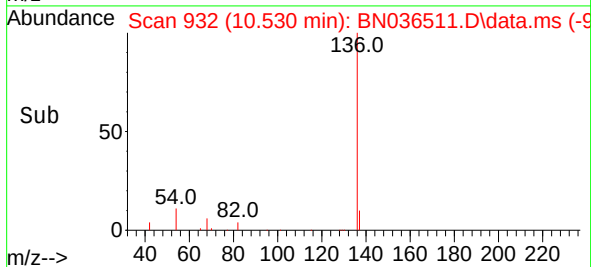
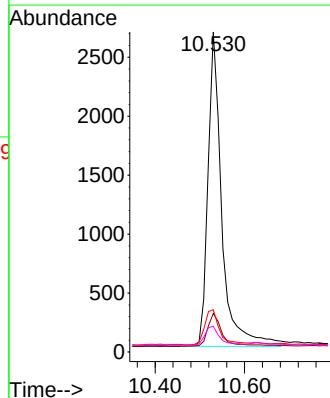
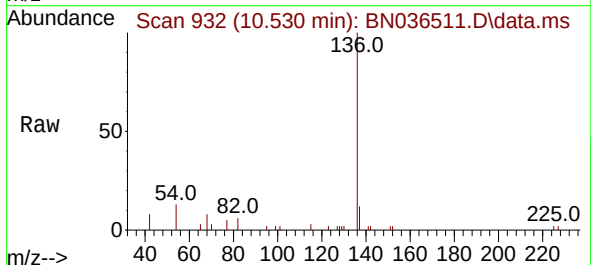
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

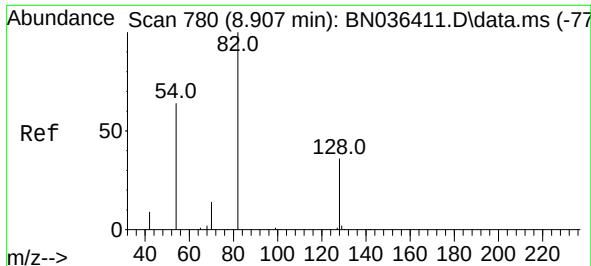
Tgt Ion: 99 Resp: 596
Ion Ratio Lower Upper
99 100
42 43.8 21.7 32.5#
71 52.9 32.6 49.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 932
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion: 136 Resp: 5724
Ion Ratio Lower Upper
136 100
137 12.0 10.1 15.1
54 13.2 11.8 17.6
68 8.0 7.2 10.8

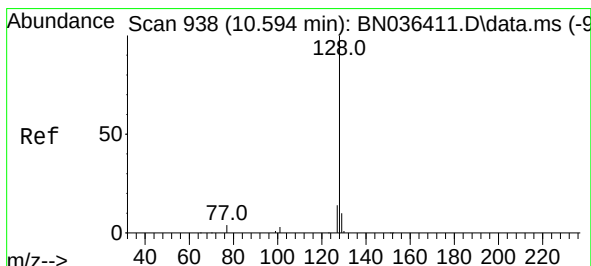
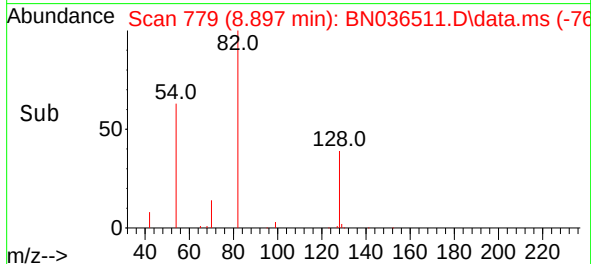
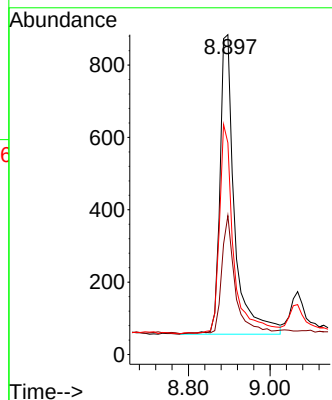
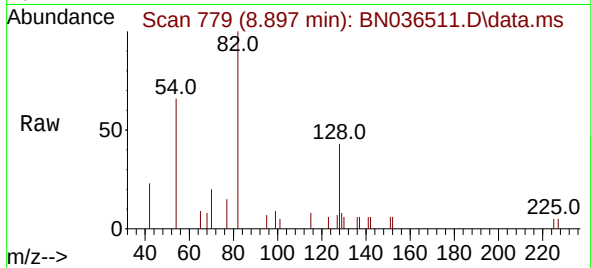




#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.897 min Scan# 71
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

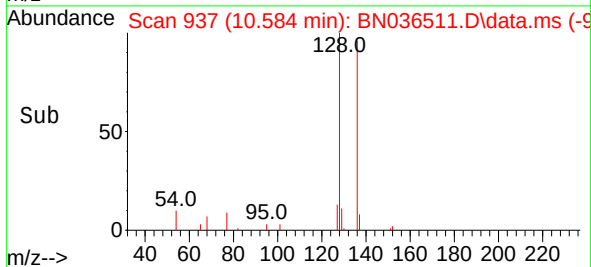
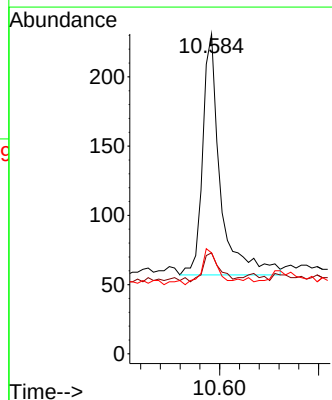
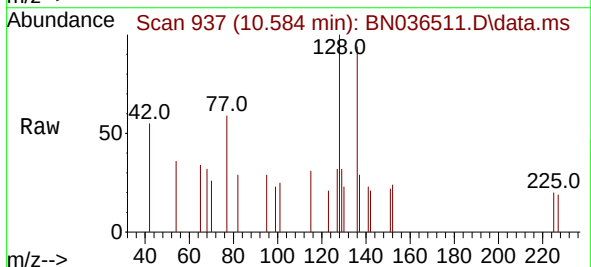
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

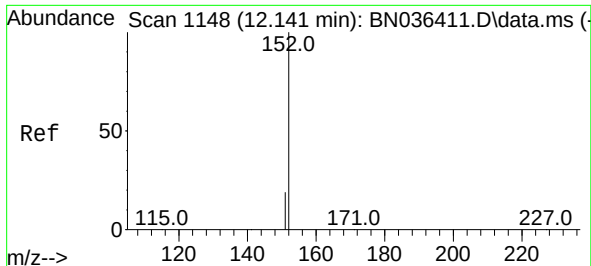
Tgt Ion: 82 Resp: 2065
Ion Ratio Lower Upper
82 100
128 43.4 31.9 47.9
54 66.2 53.1 79.7



#9
Naphthalene
Concen: 0.026 ng
RT: 10.584 min Scan# 937
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion: 128 Resp: 434
Ion Ratio Lower Upper
128 100
129 31.6 9.6 14.4#
127 31.6 12.0 18.0#





#11

2-Methylnaphthalene-d10

Concen: 0.370 ng

RT: 12.121 min Scan# 1144

Delta R.T. -0.020 min

Lab File: BN036511.D

Acq: 26 Feb 2025 15:31

Instrument :

BNA_N

ClientSampleId :

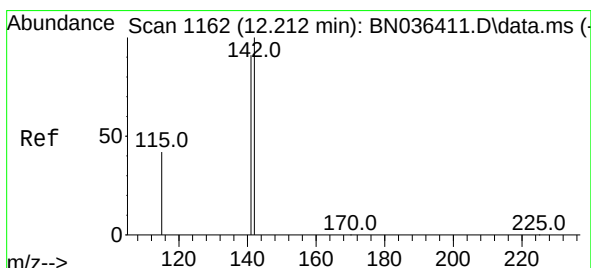
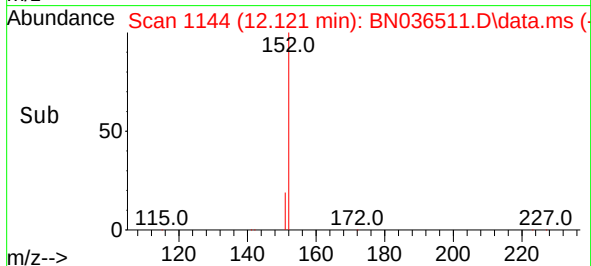
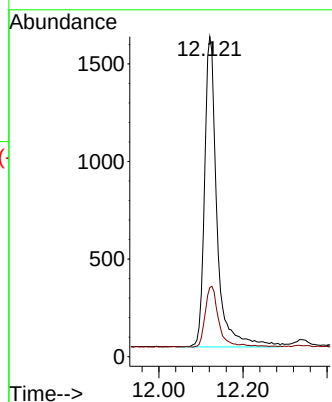
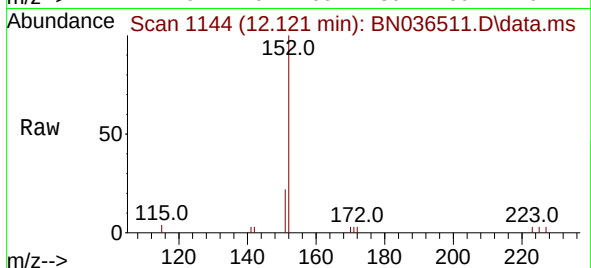
BP-VPB-192-EB-20250221

Tgt Ion:152 Resp: 3255

Ion Ratio Lower Upper

152 100

151 20.8 16.6 25.0



#12

2-Methylnaphthalene

Concen: 0.022 ng

RT: 12.197 min Scan# 1159

Delta R.T. -0.015 min

Lab File: BN036511.D

Acq: 26 Feb 2025 15:31

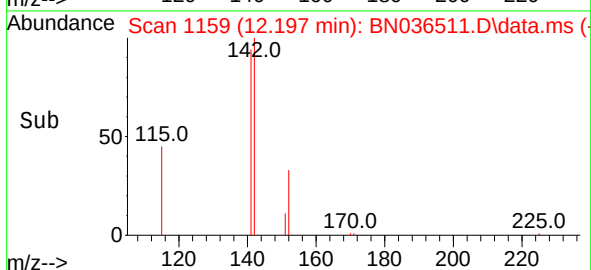
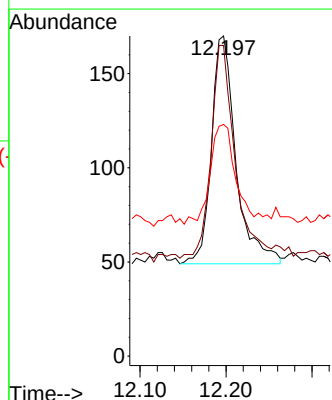
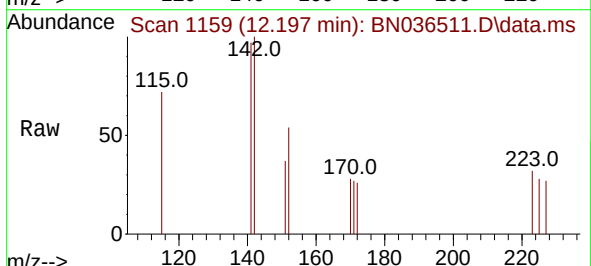
Tgt Ion:142 Resp: 240

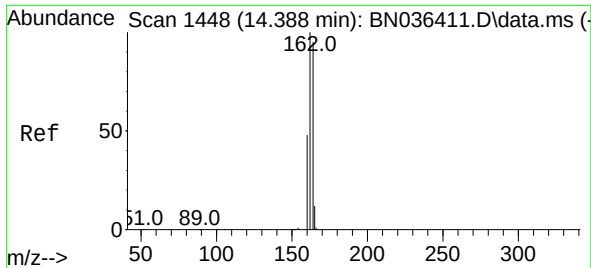
Ion Ratio Lower Upper

142 100

141 97.1 72.8 109.2

115 72.4 35.5 53.3#

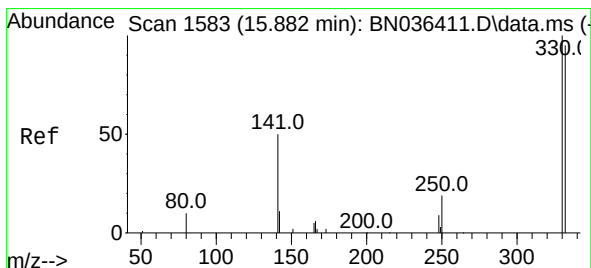
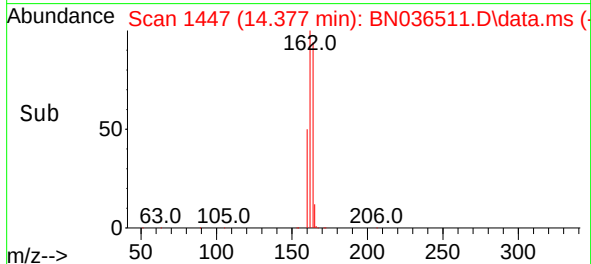
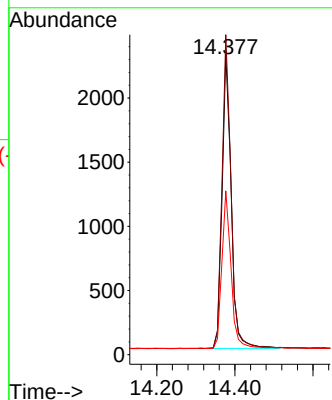
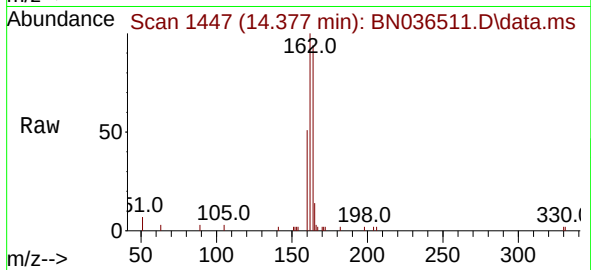




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.377 min Scan# 1447
 Delta R.T. -0.011 min
 Lab File: BN036511.D
 Acq: 26 Feb 2025 15:31

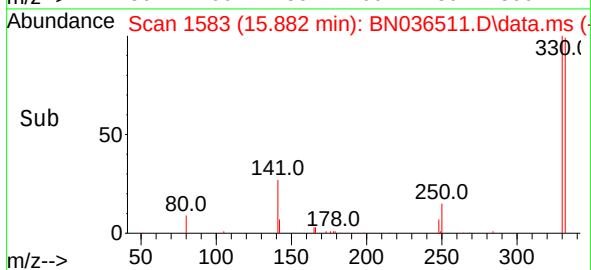
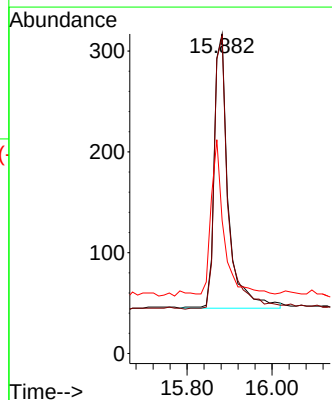
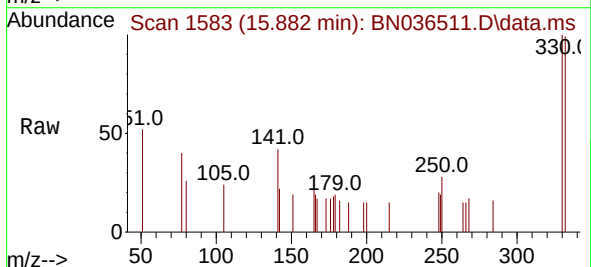
Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250221

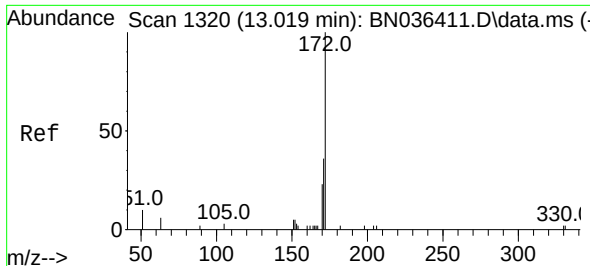
Tgt Ion:164 Resp: 3696
 Ion Ratio Lower Upper
 164 100
 162 106.5 84.1 126.1
 160 54.5 41.4 62.0



#14
 2,4,6-Tribromophenol
 Concen: 0.340 ng
 RT: 15.882 min Scan# 1583
 Delta R.T. -0.000 min
 Lab File: BN036511.D
 Acq: 26 Feb 2025 15:31

Tgt Ion:330 Resp: 623
 Ion Ratio Lower Upper
 330 100
 332 98.6 76.6 114.8
 141 50.7 37.8 56.8

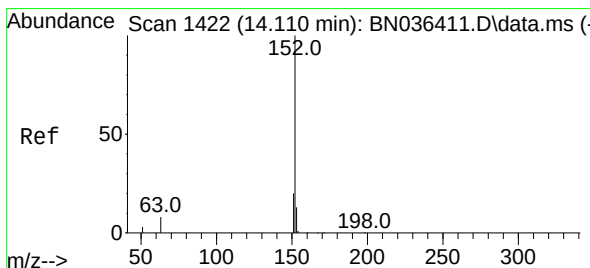
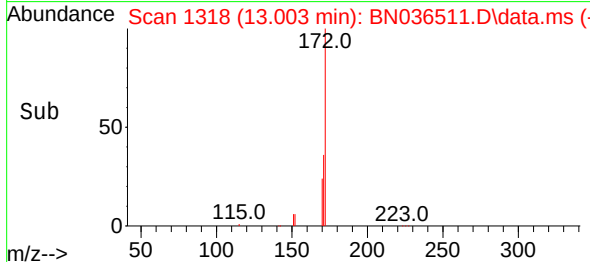
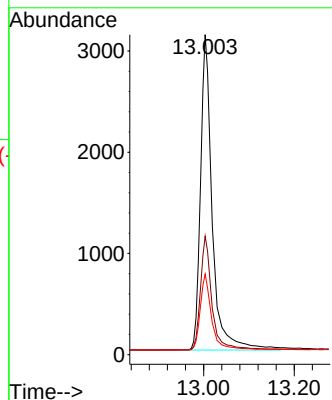
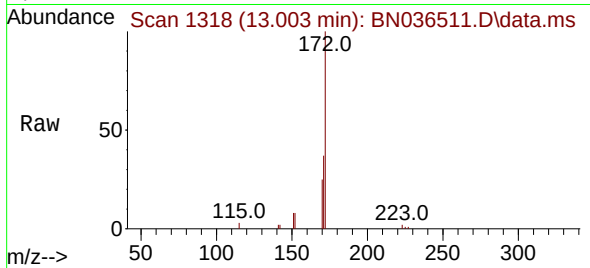




#15
2-Fluorobiphenyl
Concen: 0.495 ng
RT: 13.003 min Scan# 1420
Delta R.T. -0.016 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

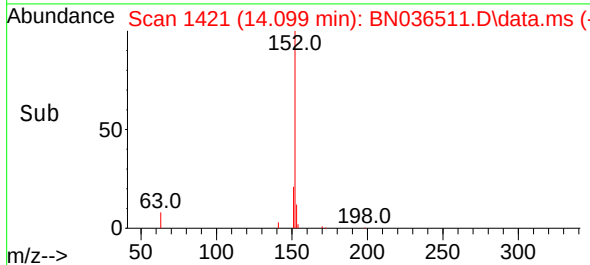
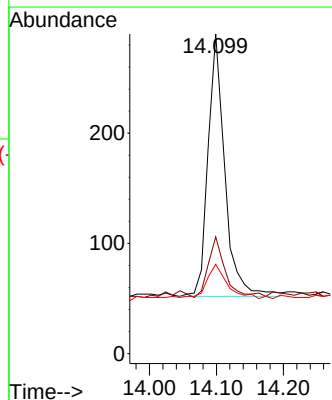
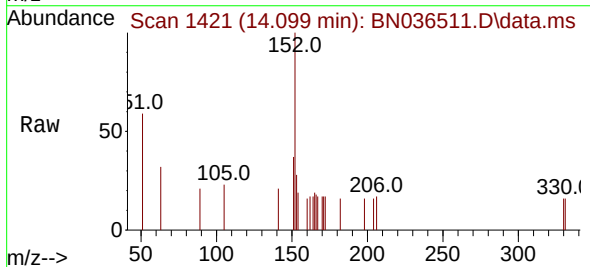
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

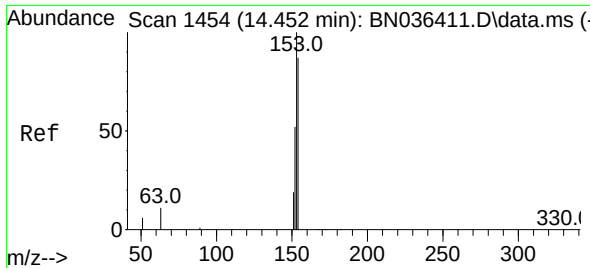
Tgt Ion:172	Resp:	6877
Ion Ratio	Lower	Upper
172	100	
171	37.1	29.6 44.4
170	25.2	19.8 29.6



#16
Acenaphthylene
Concen: 0.025 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion:152	Resp:	415
Ion Ratio	Lower	Upper
152	100	
151	22.7	15.8 23.8
153	17.6	10.2 15.2#

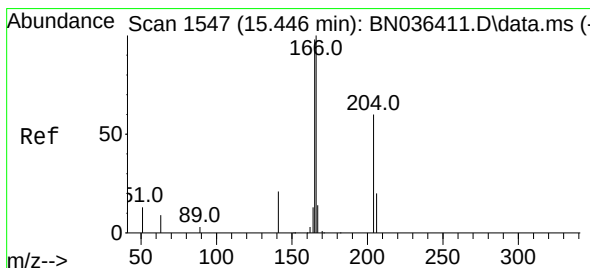
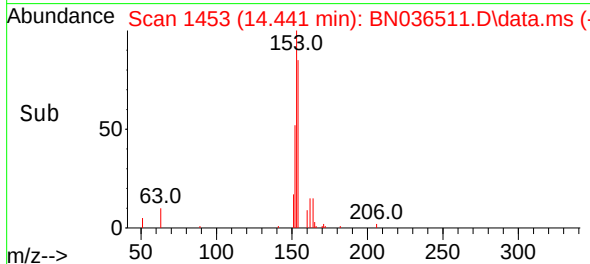
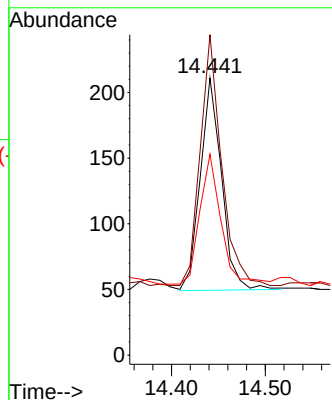
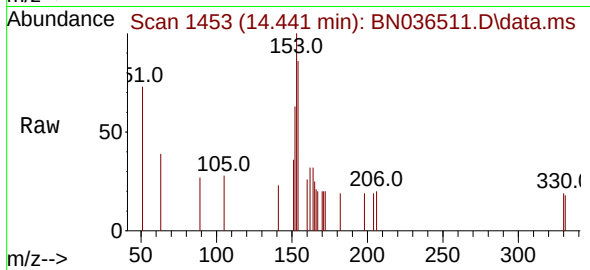




#17
Acenaphthene
Concen: 0.023 ng
RT: 14.441 min Scan# 1453
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

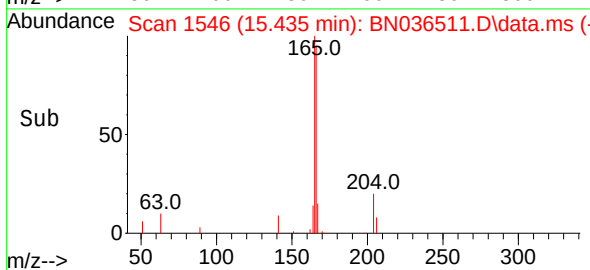
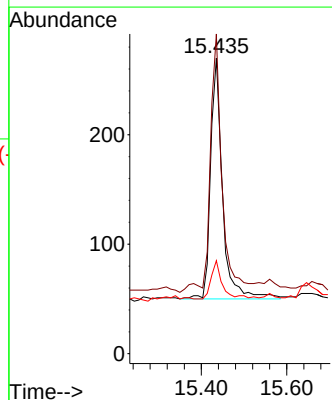
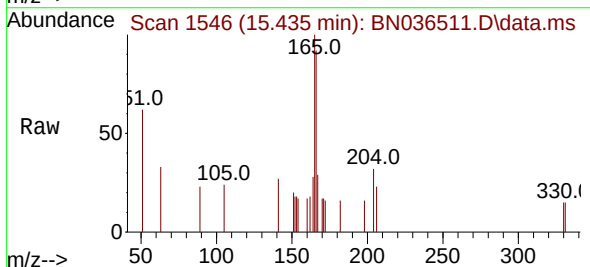
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

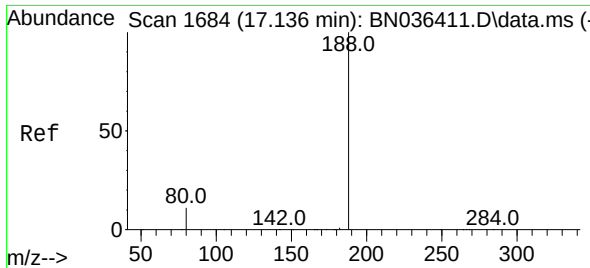
Tgt Ion:154	Resp:	256	
Ion	Ratio	Lower	Upper
154	100		
153	118.8	93.3	139.9
152	62.9	48.8	73.2



#18
Fluorene
Concen: 0.029 ng
RT: 15.435 min Scan# 1546
Delta R.T. -0.011 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion:166	Resp:	446	
Ion	Ratio	Lower	Upper
166	100		
165	102.9	79.5	119.3
167	15.9	10.4	15.6#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.124 min Scan# 1683

Delta R.T. -0.012 min

Lab File: BN036511.D

Acq: 26 Feb 2025 15:31

Instrument :

BNA_N

ClientSampleId :

BP-VPB-192-EB-20250221

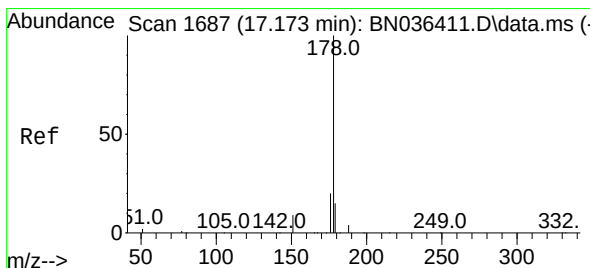
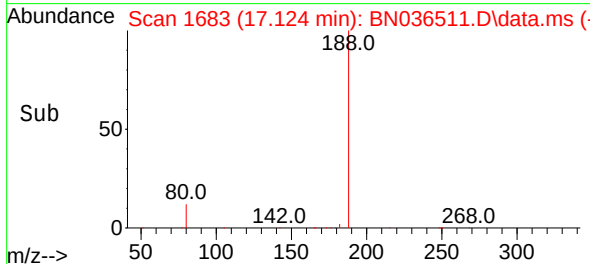
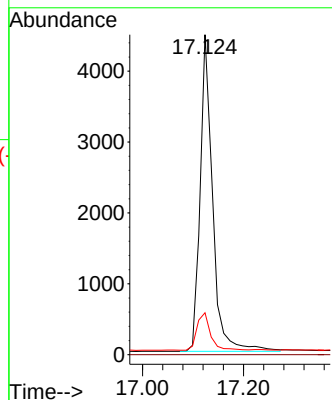
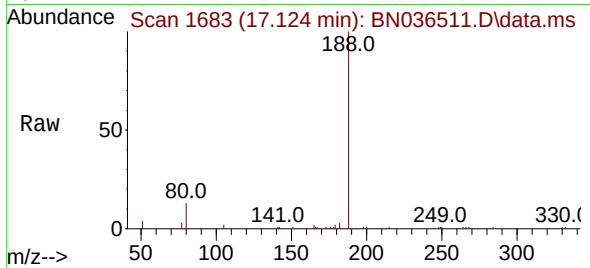
Tgt Ion:188 Resp: 7691

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 9.8 14.6



#25

Phenanthrene

Concen: 0.040 ng

RT: 17.161 min Scan# 1686

Delta R.T. -0.012 min

Lab File: BN036511.D

Acq: 26 Feb 2025 15:31

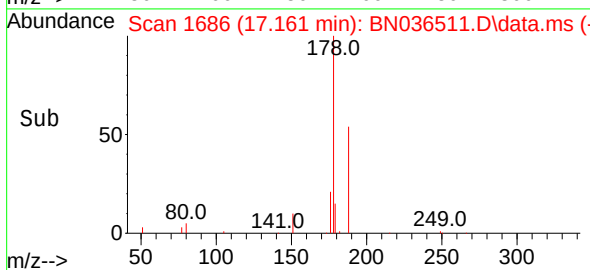
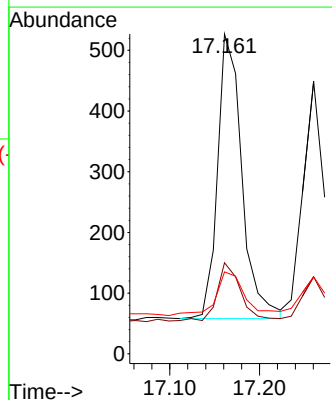
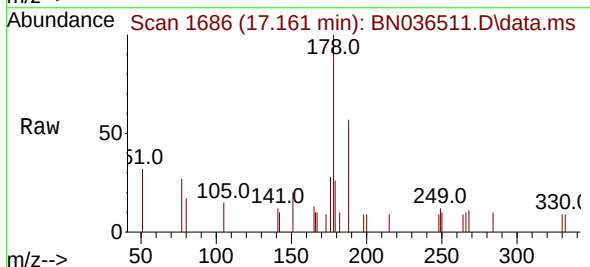
Tgt Ion:178 Resp: 886

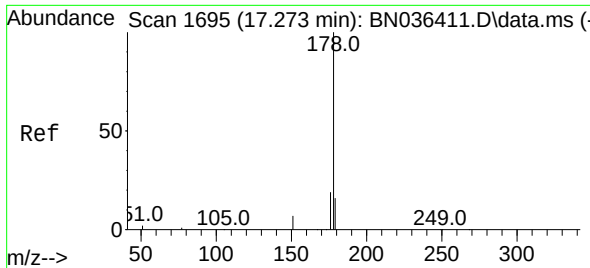
Ion Ratio Lower Upper

178 100

176 21.2 15.7 23.5

179 18.4 12.4 18.6

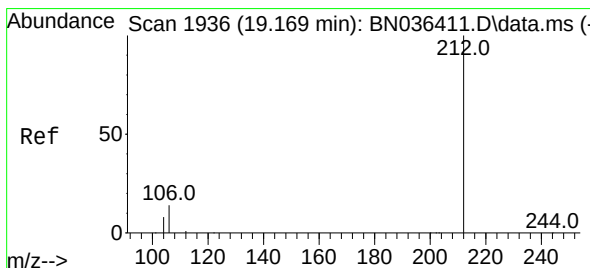
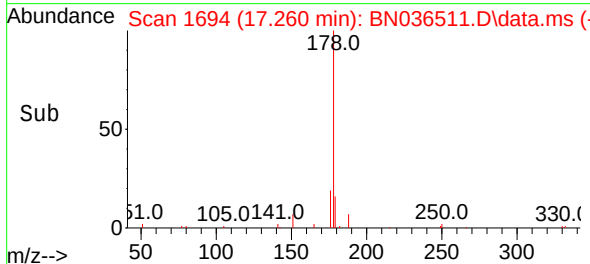
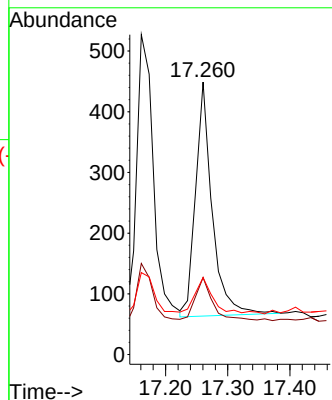
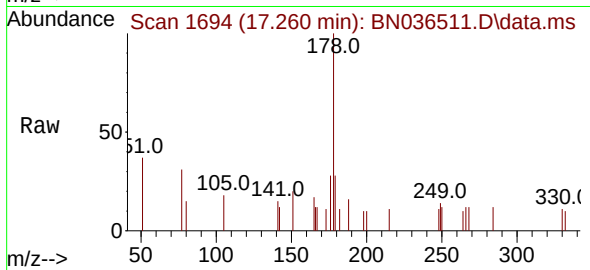




#26
 Anthracene
 Concen: 0.037 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036511.D
 Acq: 26 Feb 2025 15:31

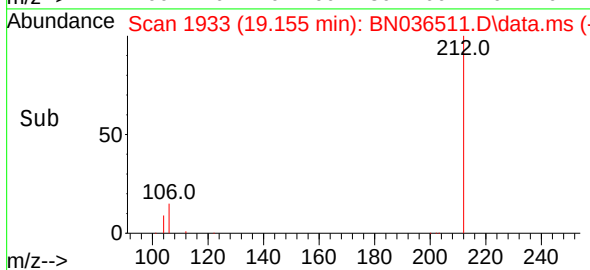
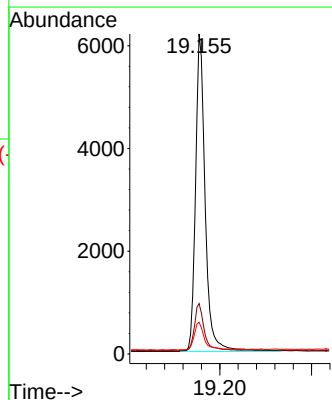
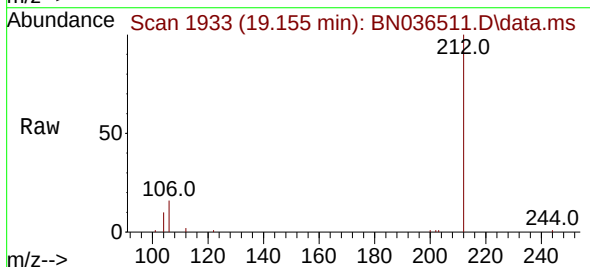
Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250221

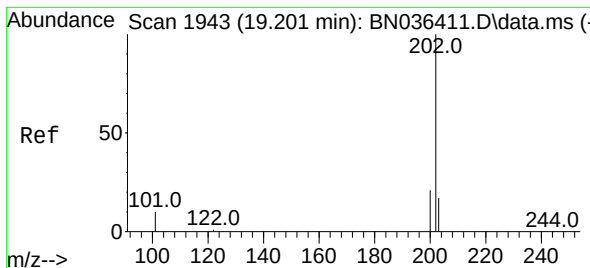
Tgt Ion:178	Resp:	719
Ion	Ratio	Lower Upper
178	100	
176	18.5	14.9 22.3
179	18.4	12.4 18.6



#27
 Fluoranthene-d10
 Concen: 0.421 ng
 RT: 19.155 min Scan# 1933
 Delta R.T. -0.014 min
 Lab File: BN036511.D
 Acq: 26 Feb 2025 15:31

Tgt Ion:212	Resp:	9001
Ion	Ratio	Lower Upper
212	100	
106	15.3	11.5 17.3
104	9.3	7.1 10.7





#28

Fluoranthene

Concen: 0.048 ng

RT: 19.187 min Scan# 1943

Delta R.T. -0.014 min

Lab File: BN036511.D

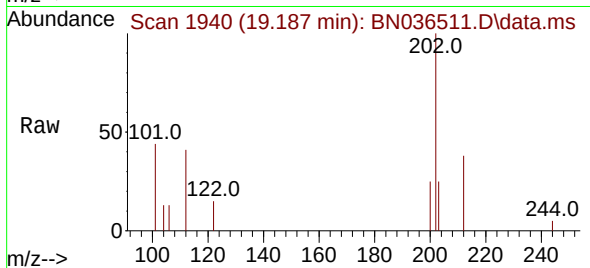
Acq: 26 Feb 2025 15:31

Instrument :

BNA_N

ClientSampleId :

BP-VPB-192-EB-20250221



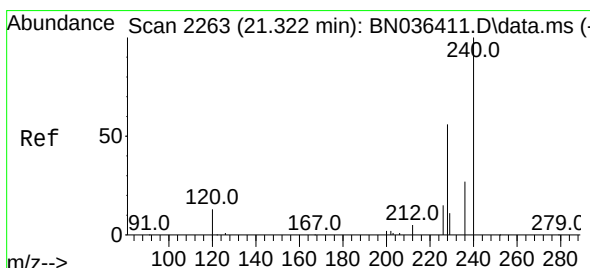
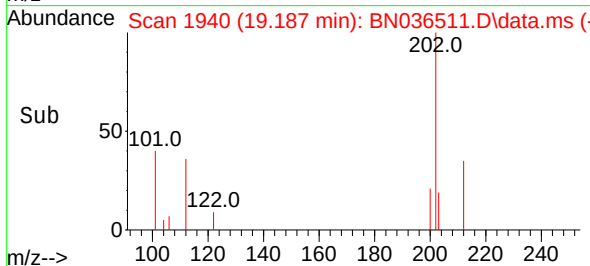
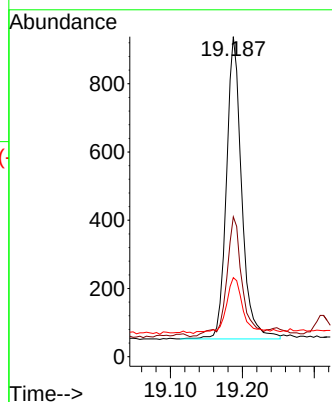
Tgt Ion:202 Resp: 1310

Ion Ratio Lower Upper

202 100

101 40.3 9.2 13.8#

203 20.7 13.4 20.0#



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.313 min Scan# 2262

Delta R.T. -0.009 min

Lab File: BN036511.D

Acq: 26 Feb 2025 15:31

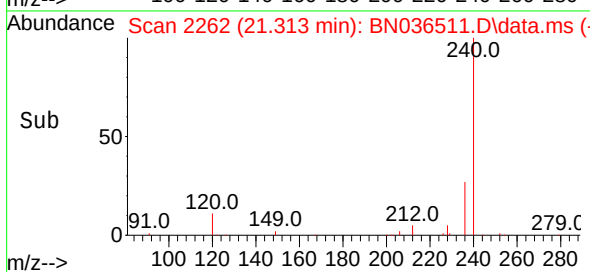
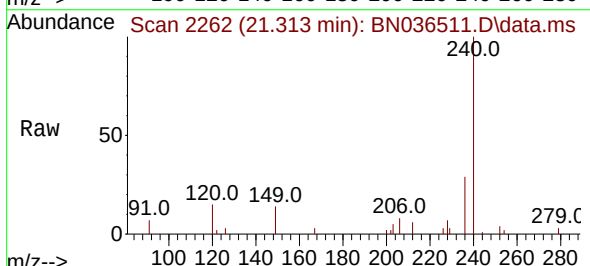
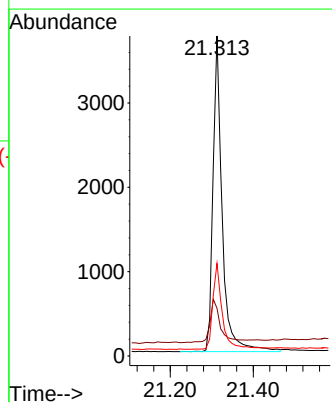
Tgt Ion:240 Resp: 5768

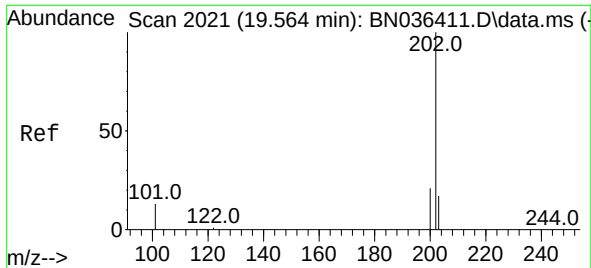
Ion Ratio Lower Upper

240 100

120 14.9 13.3 19.9

236 29.0 23.0 34.6

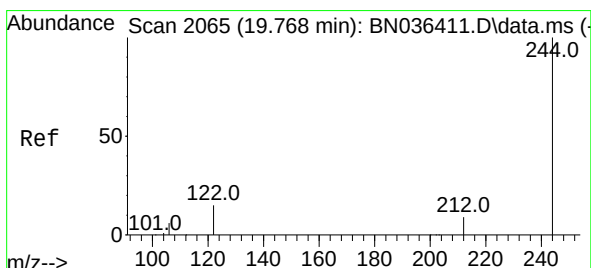
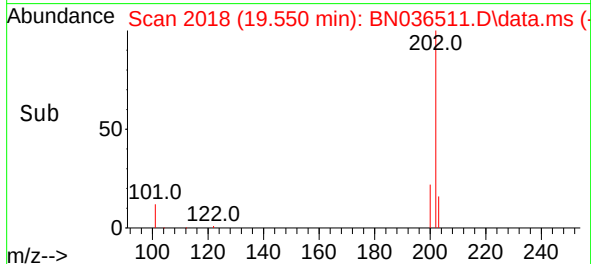
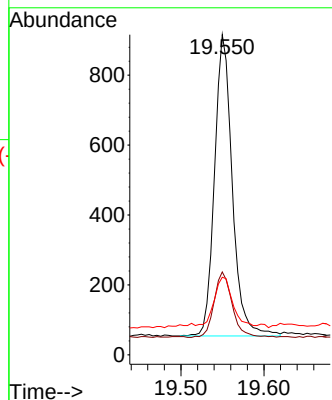
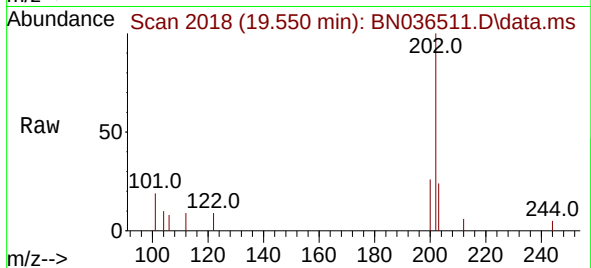




#30
Pyrene
Concen: 0.058 ng
RT: 19.550 min Scan# 2021
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

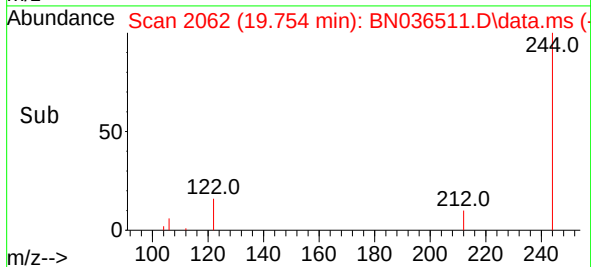
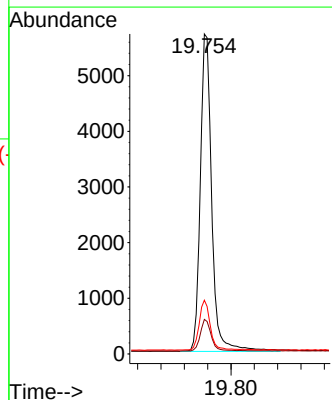
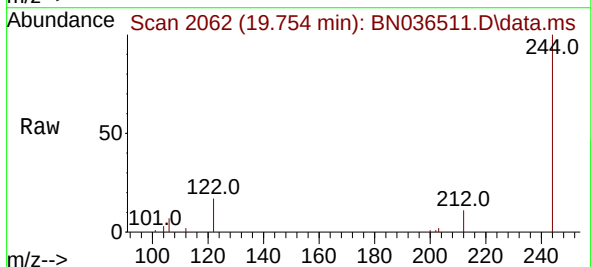
Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

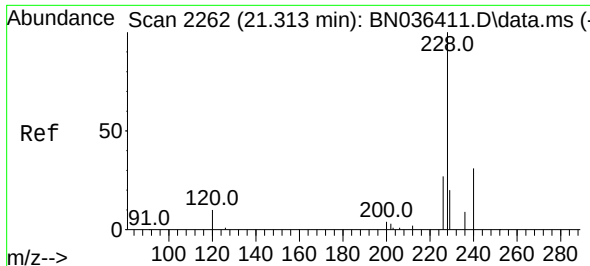
Tgt Ion:	202	Resp:	1284
Ion Ratio	Lower	Upper	
202	100		
200	22.0	16.9	25.3
203	17.6	13.9	20.9



#31
Terphenyl-d14
Concen: 0.631 ng
RT: 19.754 min Scan# 2062
Delta R.T. -0.014 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion:	244	Resp:	7770
Ion Ratio	Lower	Upper	
244	100		
212	10.8	8.1	12.1
122	16.8	12.8	19.2





#32

Benzo(a)anthracene

Concen: 0.048 ng

RT: 21.295 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036511.D

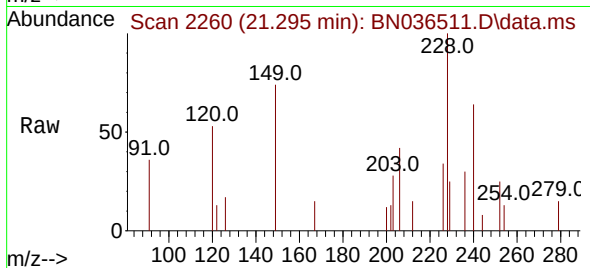
Acq: 26 Feb 2025 15:31

Instrument :

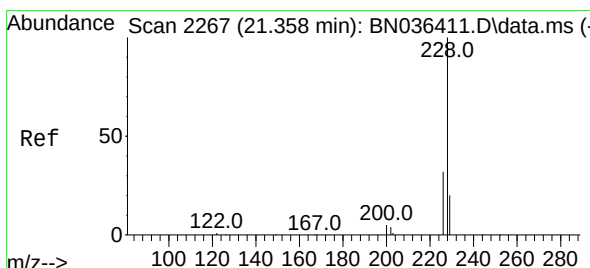
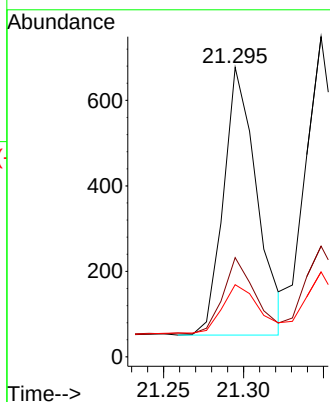
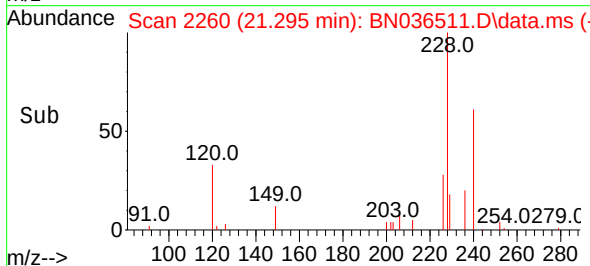
BNA_N

ClientSampleId :

BP-VPB-192-EB-20250221



Tgt Ion:	228	Resp:	913
Ion Ratio	Lower	Upper	
228	100		
226	34.3	22.2	33.2#
229	25.0	16.5	24.7#



#33

Chrysene

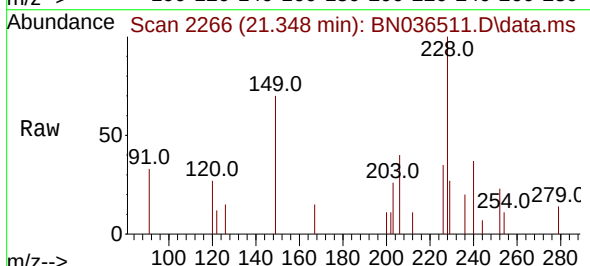
Concen: 0.055 ng

RT: 21.348 min Scan# 2266

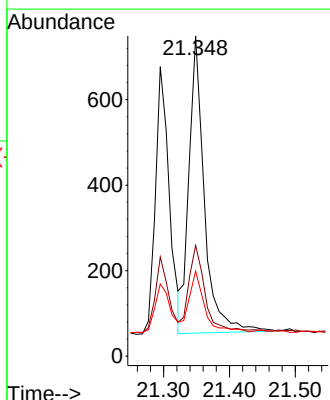
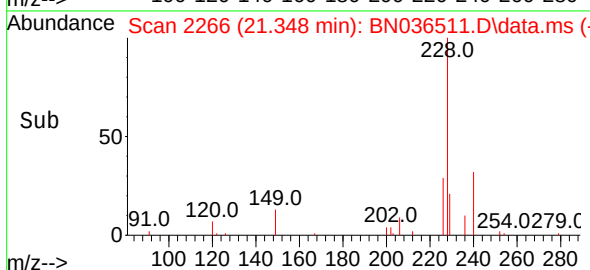
Delta R.T. -0.009 min

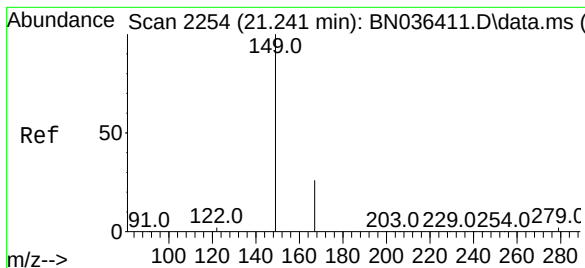
Lab File: BN036511.D

Acq: 26 Feb 2025 15:31



Tgt Ion:	228	Resp:	1129
Ion Ratio	Lower	Upper	
228	100		
226	34.6	25.5	38.3
229	26.6	16.4	24.6#

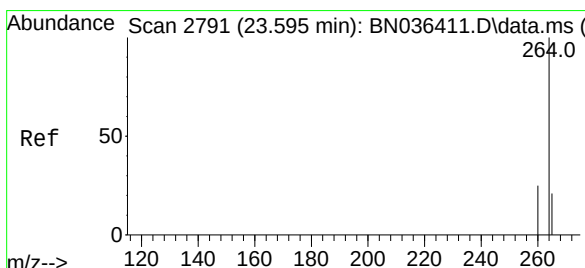
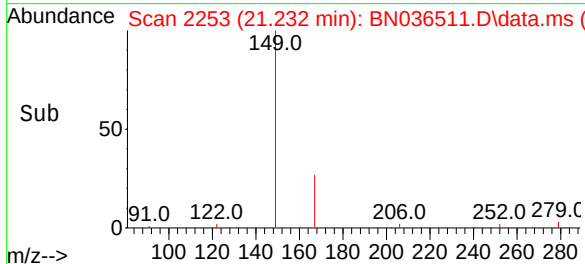
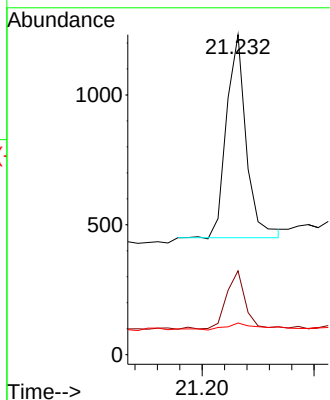
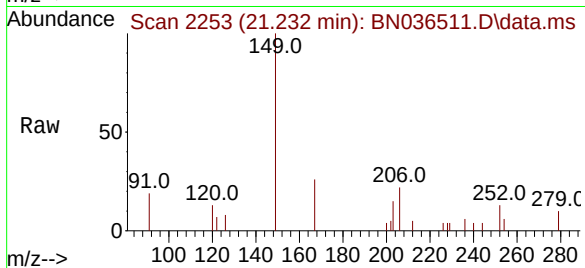




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.081 ng
 RT: 21.232 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN036511.D
 Acq: 26 Feb 2025 15:31

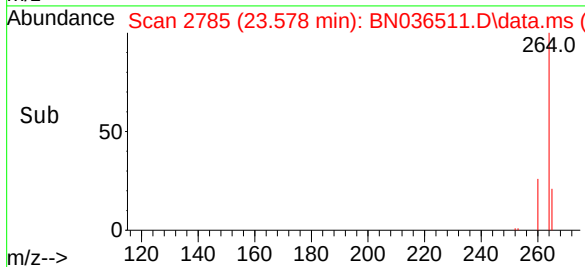
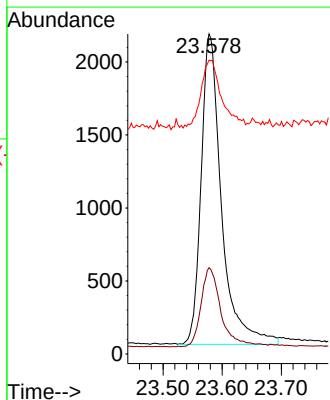
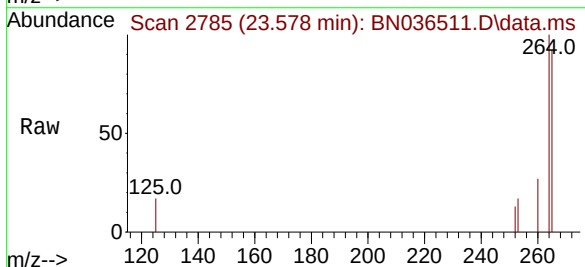
Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-192-EB-20250221

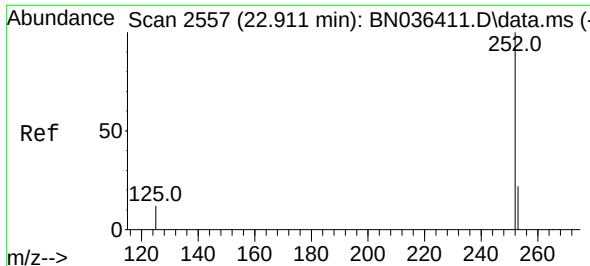
Tgt Ion:	149	Resp:	962
Ion Ratio	Lower	Upper	
149	100		
167	29.1	21.2	31.8
279	6.3	2.7	4.1#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.578 min Scan# 2785
 Delta R.T. -0.018 min
 Lab File: BN036511.D
 Acq: 26 Feb 2025 15:31

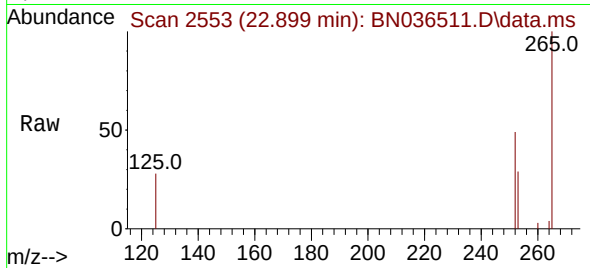
Tgt Ion:	264	Resp:	5083
Ion Ratio	Lower	Upper	
264	100		
260	27.0	20.9	31.3
265	91.8	60.7	91.1#



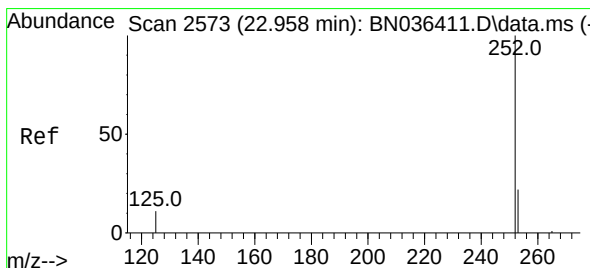
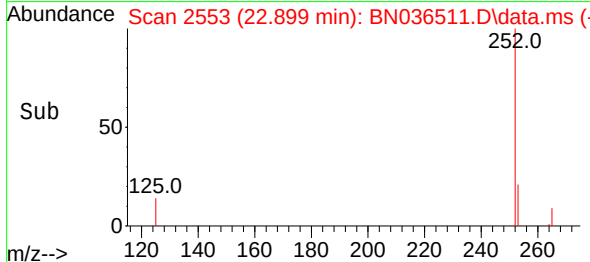
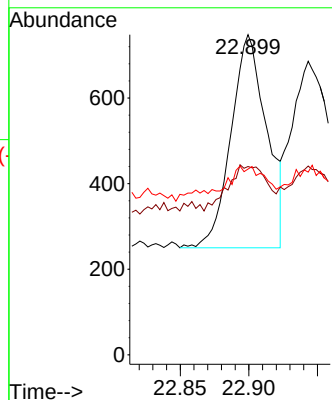


#37
Benzo(b)fluoranthene
Concen: 0.054 ng
RT: 22.899 min Scan# 2553
Delta R.T. -0.012 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Instrument :
BNA_N
ClientSampleId :
BP-VPB-192-EB-20250221

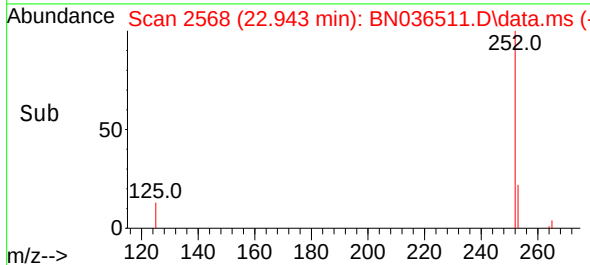
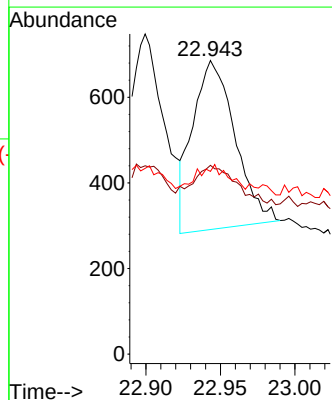
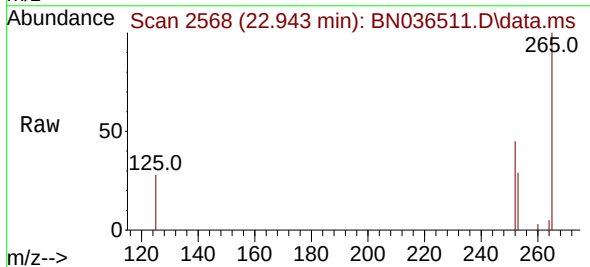


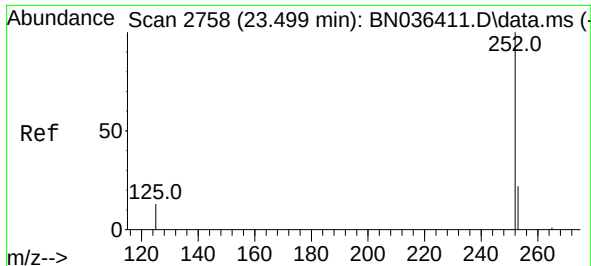
Tgt Ion:252 Resp: 902
Ion Ratio Lower Upper
252 100
253 58.8 21.9 32.9#
125 58.0 15.0 22.6#



#38
Benzo(k)fluoranthene
Concen: 0.045 ng
RT: 22.943 min Scan# 2568
Delta R.T. -0.015 min
Lab File: BN036511.D
Acq: 26 Feb 2025 15:31

Tgt Ion:252 Resp: 779
Ion Ratio Lower Upper
252 100
253 64.3 22.2 33.4#
125 62.2 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.056 ng

RT: 23.481 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036511.D

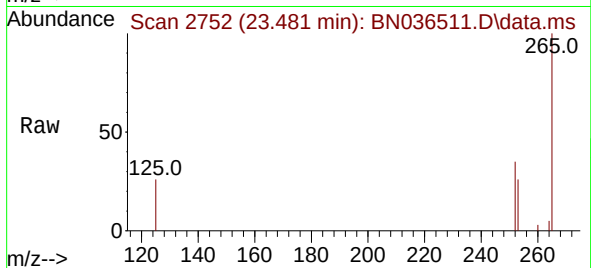
Acq: 26 Feb 2025 15:31

Instrument :

BNA_N

ClientSampleId :

BP-VPB-192-EB-20250221



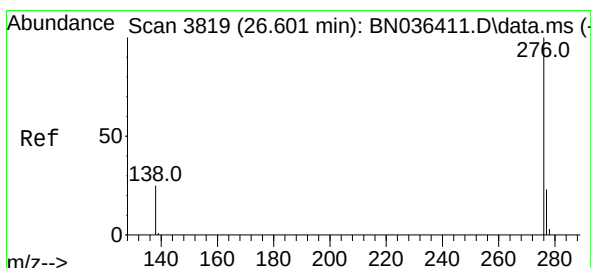
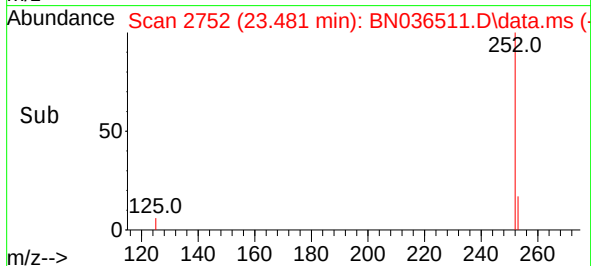
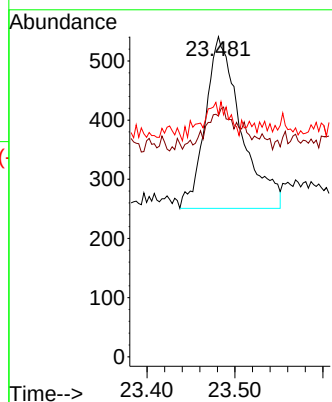
Tgt Ion:252 Resp: 818

Ion Ratio Lower Upper

252 100

253 75.2 24.4 36.6#

125 75.6 18.2 27.2#



#41

Benzo(g,h,i)perylene

Concen: 0.044 ng

RT: 26.583 min Scan# 3813

Delta R.T. -0.018 min

Lab File: BN036511.D

Acq: 26 Feb 2025 15:31

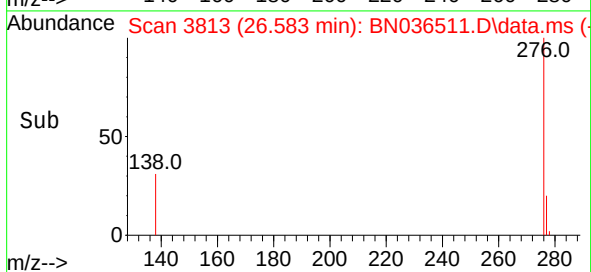
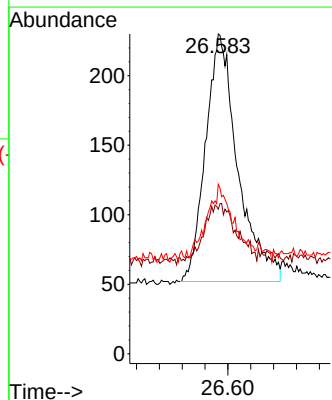
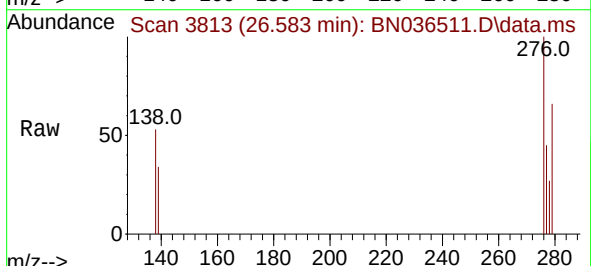
Tgt Ion:276 Resp: 699

Ion Ratio Lower Upper

276 100

277 45.2 20.7 31.1#

138 53.0 21.8 32.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036512.D
 Acq On : 26 Feb 2025 16:07
 Operator : RC/JU
 Sample : PB166876BS
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166876BS

Quant Time: Feb 26 16:36:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

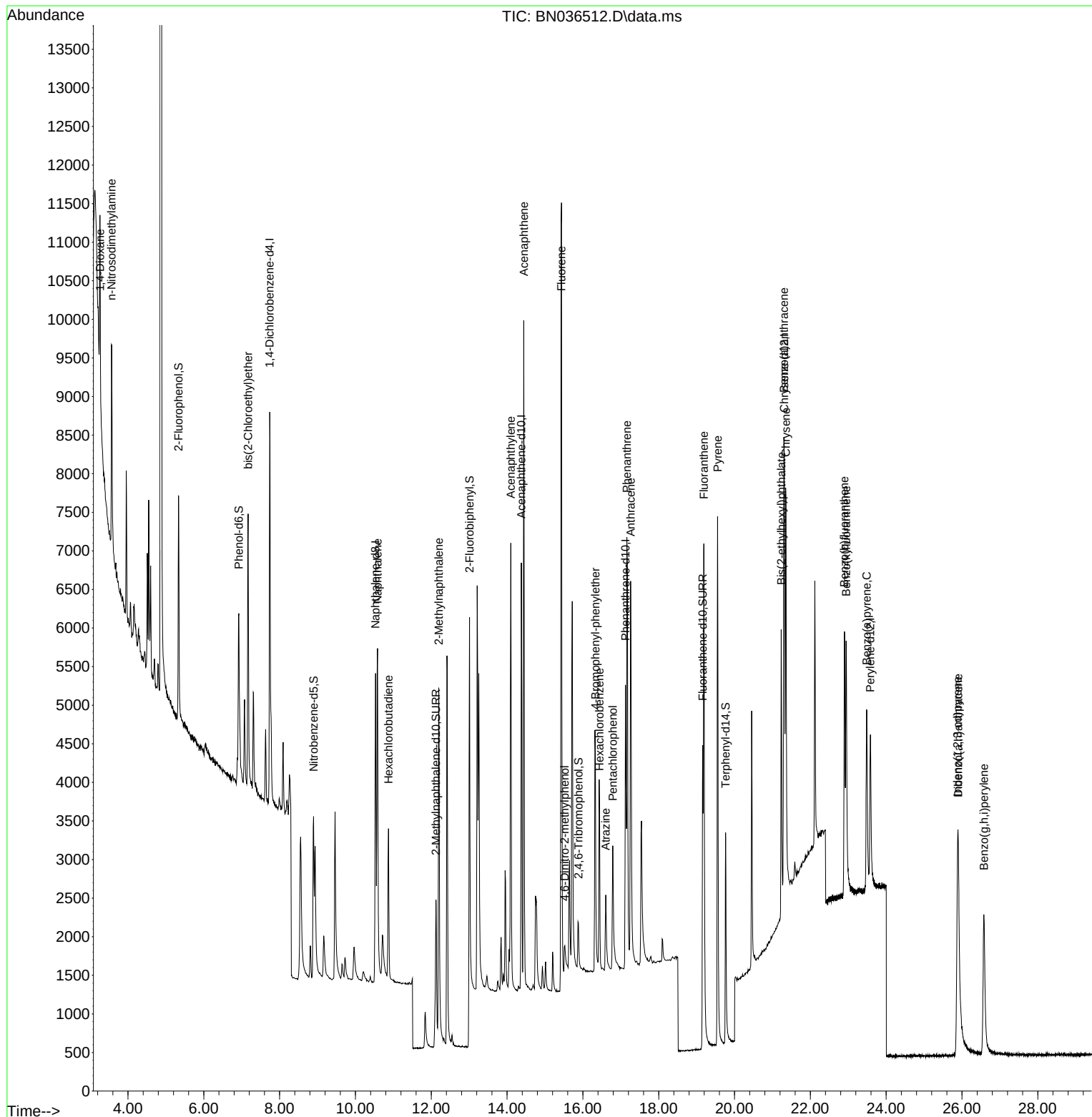
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2531	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5759	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	3208	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	5804	0.400	ng	#-0.01
29) Chrysene-d12	21.313	240	3657	0.400	ng	# 0.00
35) Perylene-d12	23.584	264	3285	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2271	0.380	ng	-0.01
5) Phenol-d6	6.923	99	2497	0.356	ng	-0.01
8) Nitrobenzene-d5	8.897	82	2175	0.383	ng	-0.01
11) 2-Methylnaphthalene-d10	12.126	152	4334	0.490	ng	-0.02
14) 2,4,6-Tribromophenol	15.882	330	467	0.294	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	5925	0.491	ng	-0.01
27) Fluoranthene-d10	19.160	212	5465	0.339	ng	0.00
31) Terphenyl-d14	19.763	244	3729	0.478	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	1032	0.373	ng	# 66
3) n-Nitrosodimethylamine	3.564	42	2081	0.433	ng	93
6) bis(2-Chloroethyl)ether	7.168	93	2797	0.381	ng	99
9) Naphthalene	10.584	128	6618	0.398	ng	99
10) Hexachlorobutadiene	10.872	225	1683	0.416	ng	# 99
12) 2-Methylnaphthalene	12.202	142	4224	0.388	ng	98
16) Acenaphthylene	14.099	152	6576	0.464	ng	99
17) Acenaphthene	14.441	154	4081	0.431	ng	99
18) Fluorene	15.435	166	5322	0.395	ng	99
20) 4,6-Dinitro-2-methylph...	15.522	198	352	0.309	ng	94
21) 4-Bromophenyl-phenylether	16.329	248	1533	0.443	ng	# 80
22) Hexachlorobenzene	16.441	284	1936	0.453	ng	95
23) Atrazine	16.602	200	1219	0.422	ng	96
24) Pentachlorophenol	16.789	266	1174	0.578	ng	98
25) Phenanthrene	17.161	178	7256	0.433	ng	100
26) Anthracene	17.260	178	6809	0.460	ng	99
28) Fluoranthene	19.192	202	7477	0.363	ng	99
30) Pyrene	19.554	202	7603	0.540	ng	99
32) Benzo(a)anthracene	21.304	228	5112	0.425	ng	98
33) Chrysene	21.357	228	5975	0.459	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	3504	0.467	ng	99
36) Indeno(1,2,3-cd)pyrene	25.884	276	5525	0.481	ng	100
37) Benzo(b)fluoranthene	22.899	252	4703	0.435	ng	# 92
38) Benzo(k)fluoranthene	22.946	252	5500	0.494	ng	# 91
39) Benzo(a)pyrene	23.487	252	4670	0.495	ng	# 88
40) Dibenzo(a,h)anthracene	25.902	278	4122	0.455	ng	# 90
41) Benzo(g,h,i)perylene	26.577	276	4481	0.436	ng	96

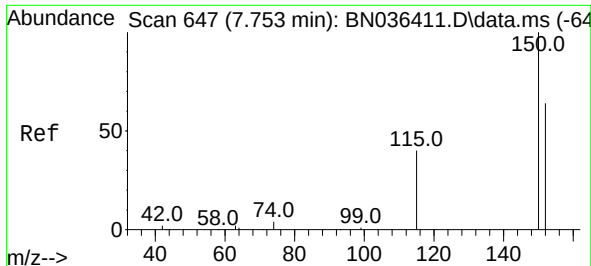
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036512.D
Acq On : 26 Feb 2025 16:07
Operator : RC/JU
Sample : PB166876BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166876BS

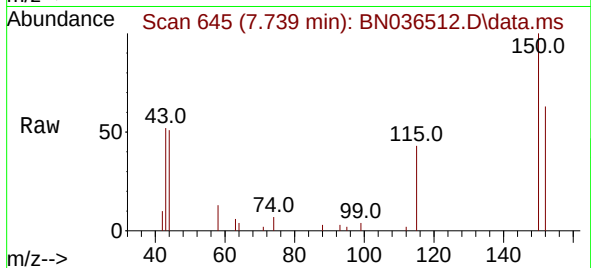
Quant Time: Feb 26 16:36:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration



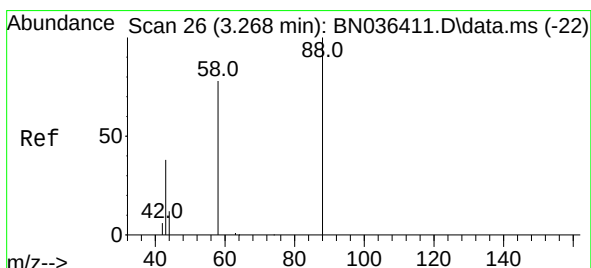
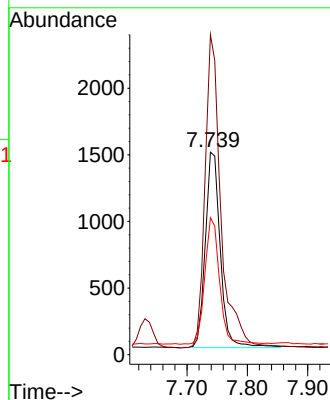
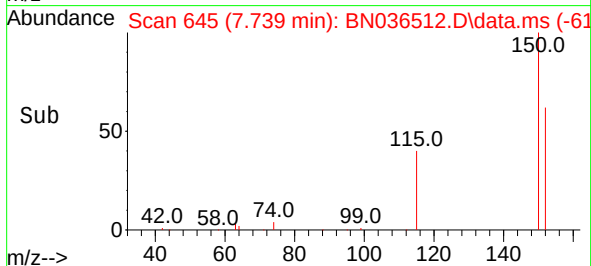


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

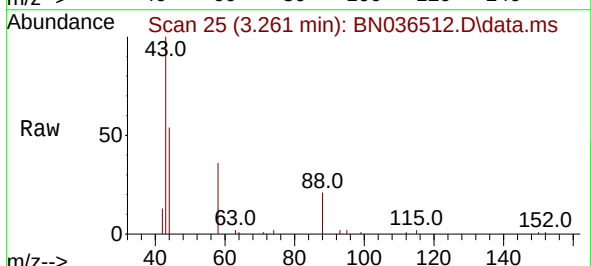
Instrument :
BNA_N
ClientSampleId :
PB166876BS



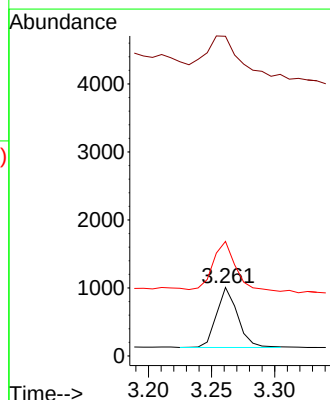
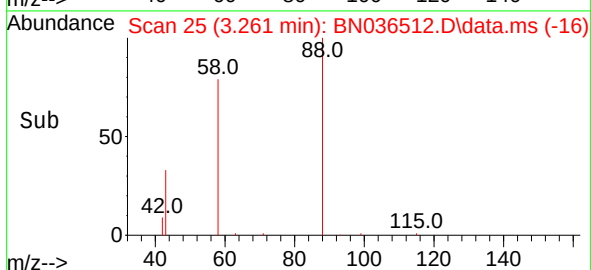
Tgt Ion:152 Resp: 2531
Ion Ratio Lower Upper
152 100
150 158.0 123.7 185.5
115 67.6 52.5 78.7

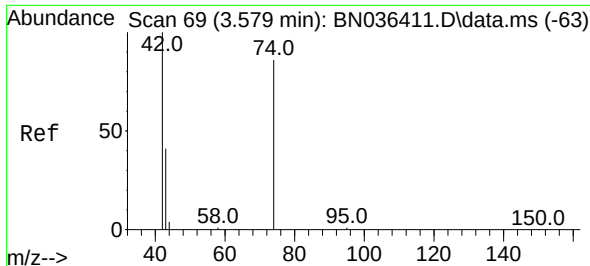


#2
1,4-Dioxane
Concen: 0.373 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07



Tgt Ion: 88 Resp: 1032
Ion Ratio Lower Upper
88 100
43 102.6 33.7 50.5#
58 90.2 68.9 103.3

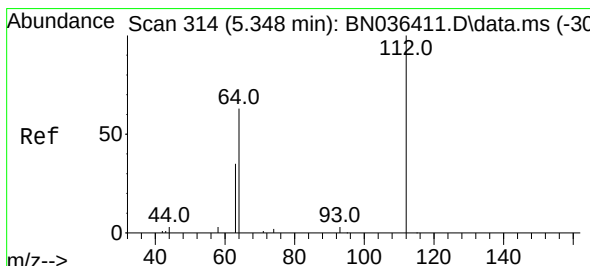
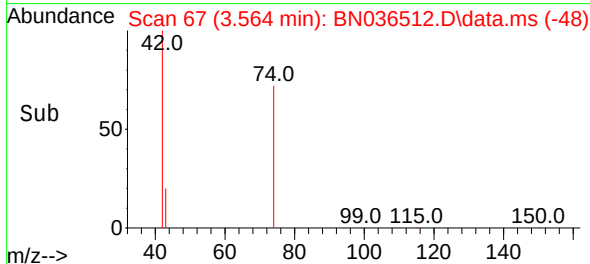
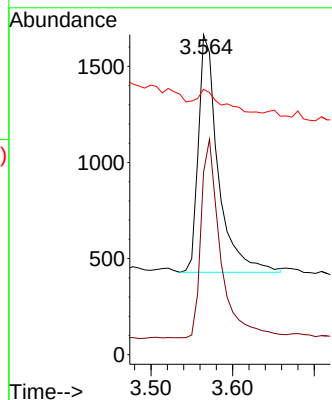
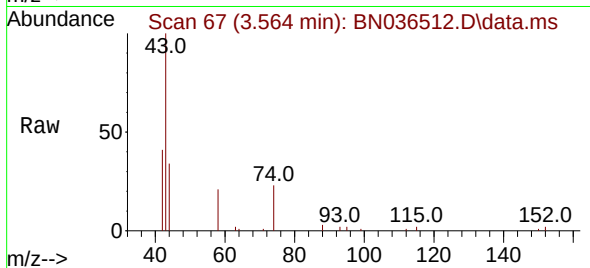




#3
n-Nitrosodimethylamine
Concen: 0.433 ng
RT: 3.564 min Scan# 61
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

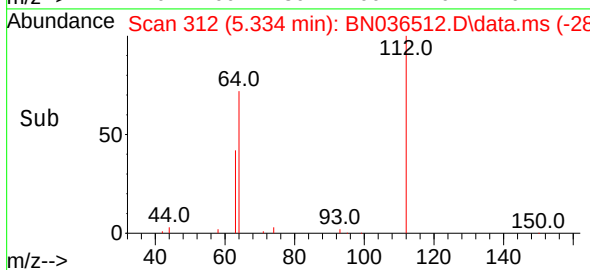
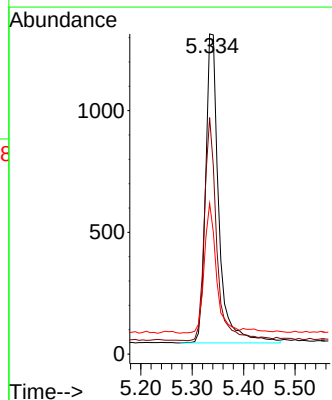
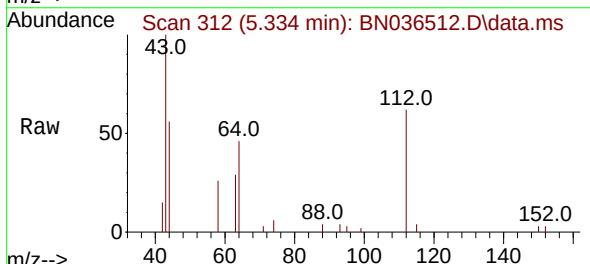
Instrument :
BNA_N
ClientSampleId :
PB166876BS

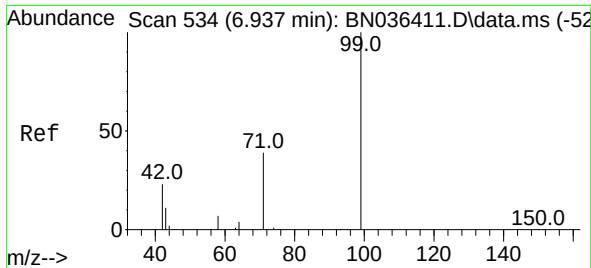
Tgt Ion: 42 Resp: 2081
Ion Ratio Lower Upper
42 100
74 82.7 71.8 107.6
44 11.4 7.8 11.6



#4
2-Fluorophenol
Concen: 0.380 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion: 112 Resp: 2271
Ion Ratio Lower Upper
112 100
64 68.0 53.4 80.0
63 38.2 30.3 45.5

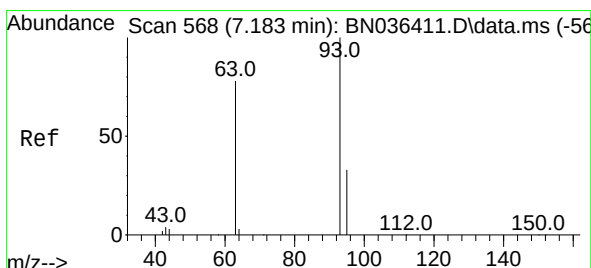
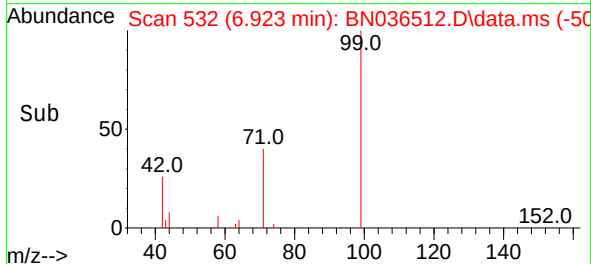
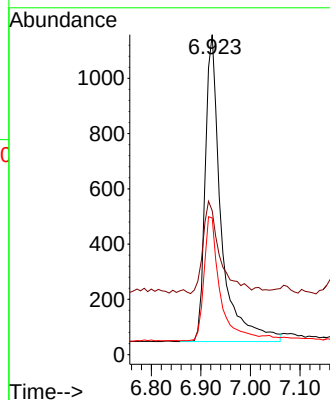
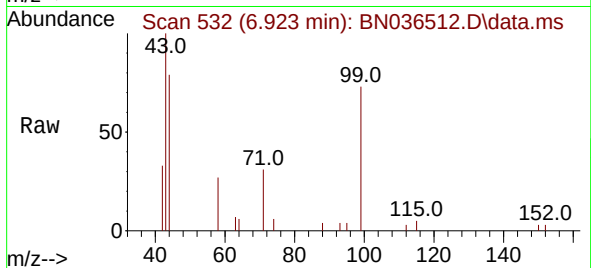




#5
Phenol-d6
Concen: 0.356 ng
RT: 6.923 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

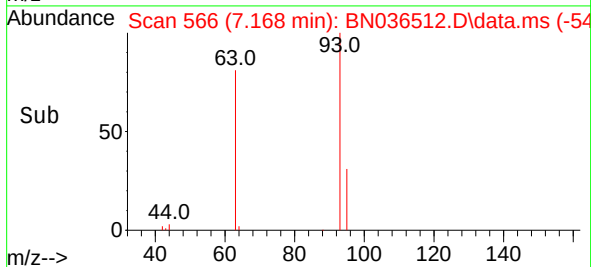
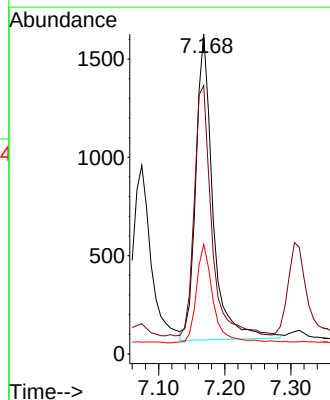
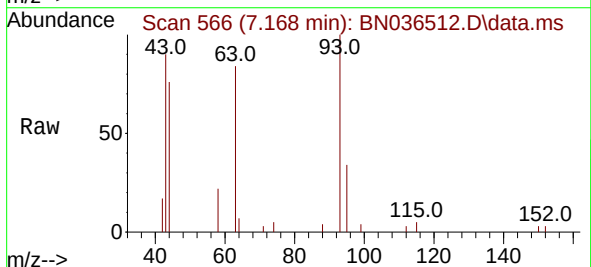
Instrument :
BNA_N
ClientSampleId :
PB166876BS

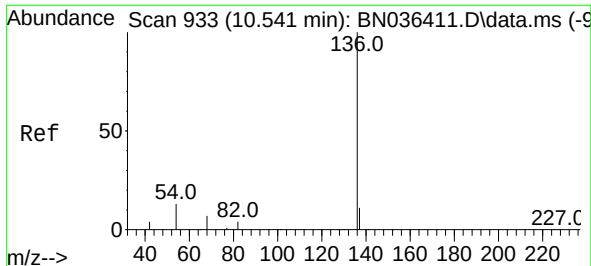
Tgt Ion: 99 Resp: 2497
Ion Ratio Lower Upper
99 100
42 31.8 21.7 32.5
71 40.2 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 7.168 min Scan# 566
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion: 93 Resp: 2797
Ion Ratio Lower Upper
93 100
63 83.2 66.3 99.5
95 31.7 26.2 39.4

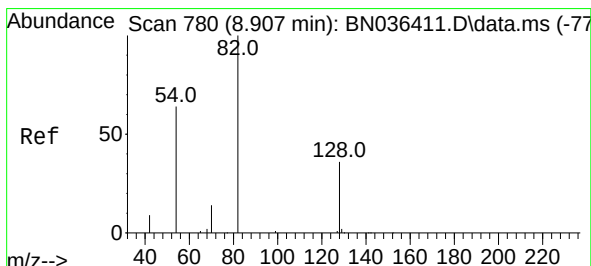
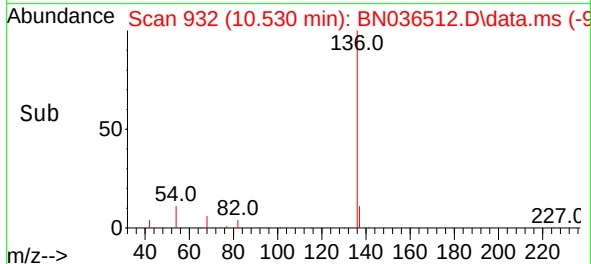
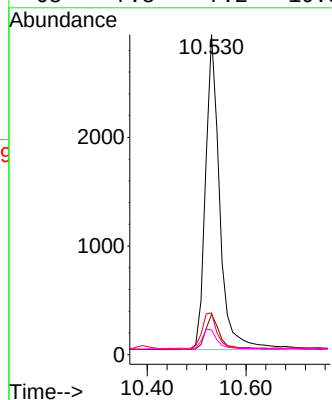
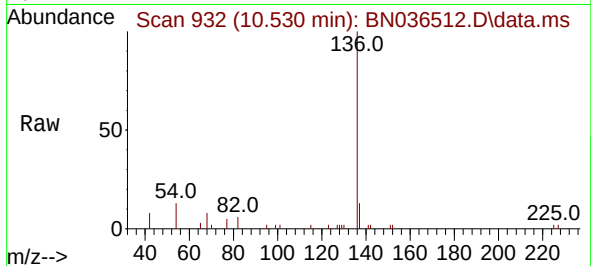




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

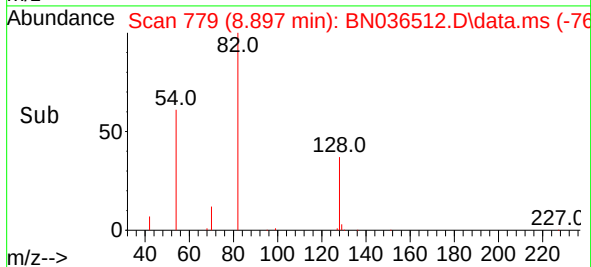
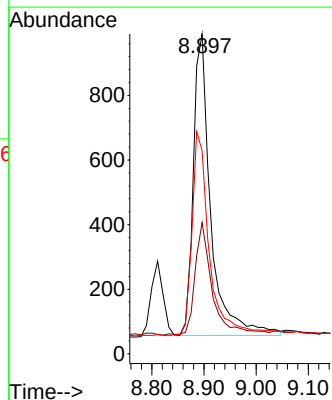
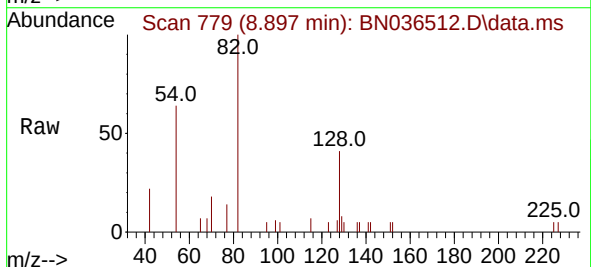
Instrument :
BNA_N
ClientSampleId :
PB166876BS

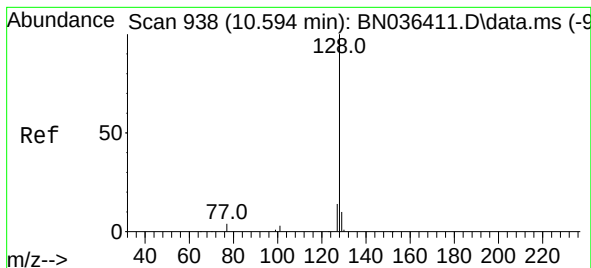
Tgt Ion:	136	Resp:	5759
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.1	15.1
54	13.1	11.8	17.6
68	7.8	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.897 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:	82	Resp:	2175
Ion	Ratio	Lower	Upper
82	100		
128	41.0	31.9	47.9
54	63.5	53.1	79.7





#9

Naphthalene

Concen: 0.398 ng

RT: 10.584 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS

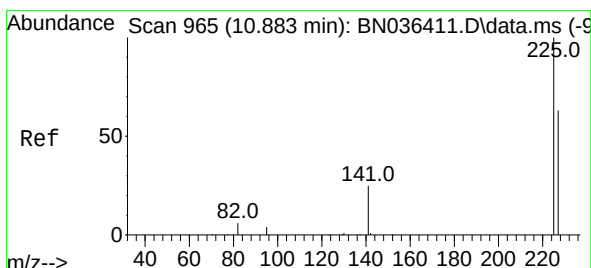
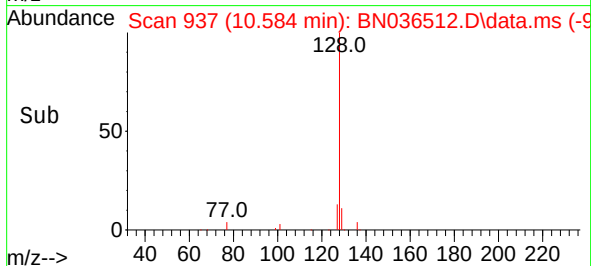
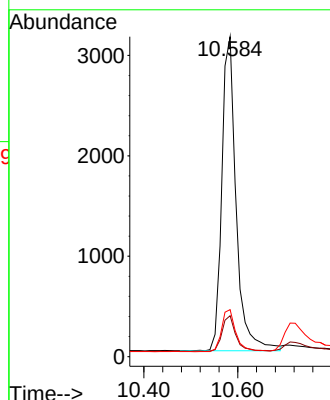
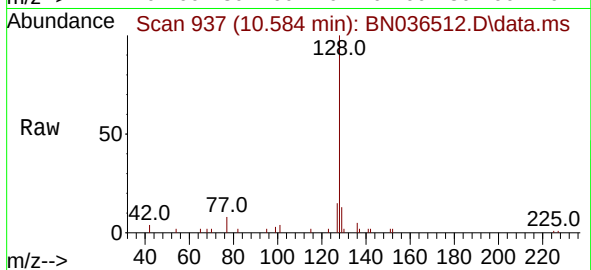
Tgt Ion:128 Resp: 6618

Ion Ratio Lower Upper

128 100

129 12.8 9.6 14.4

127 14.7 12.0 18.0



#10

Hexachlorobutadiene

Concen: 0.416 ng

RT: 10.872 min Scan# 964

Delta R.T. -0.011 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

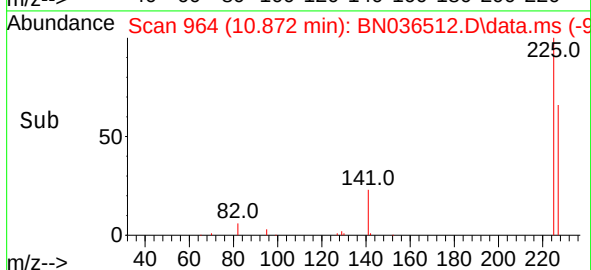
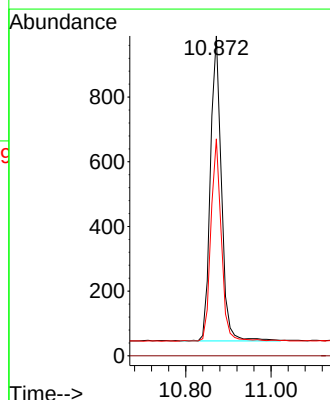
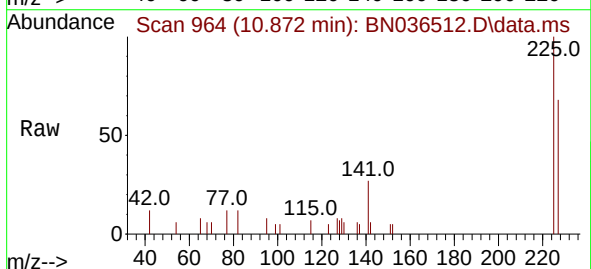
Tgt Ion:225 Resp: 1683

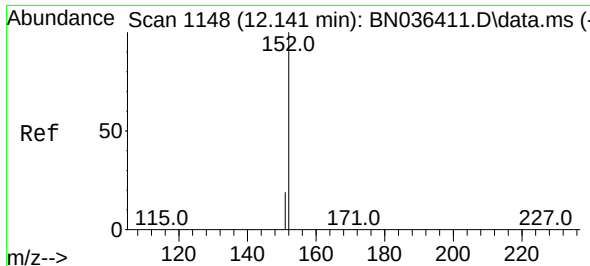
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.4 50.9 76.3

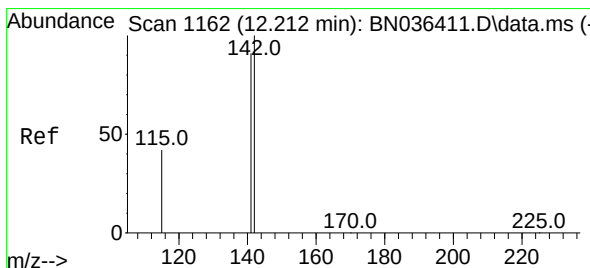
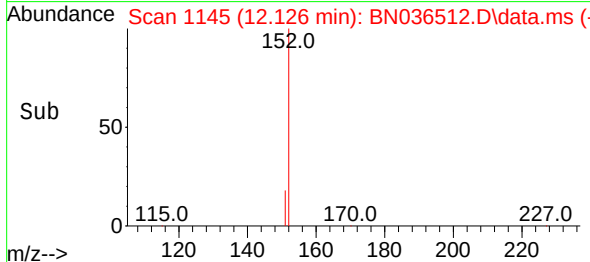
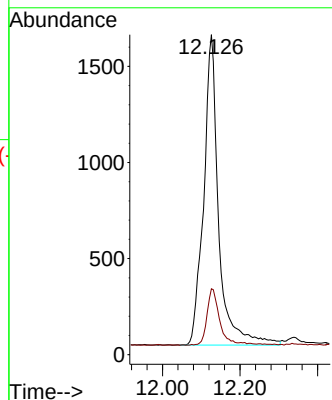
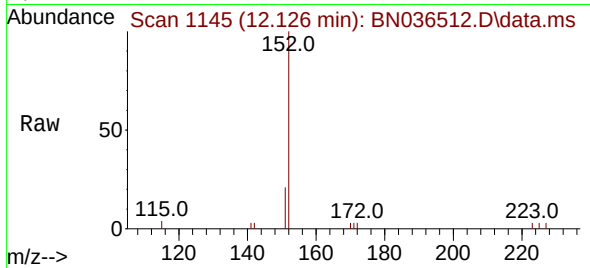




#11
2-Methylnaphthalene-d10
Concen: 0.490 ng
RT: 12.126 min Scan# 1145
Delta R.T. -0.015 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

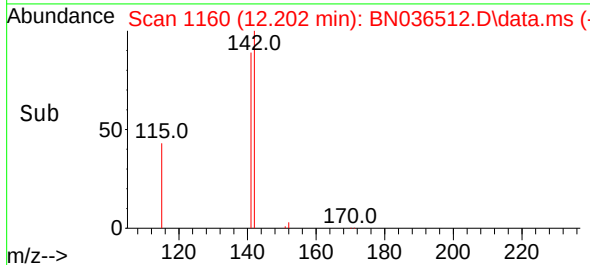
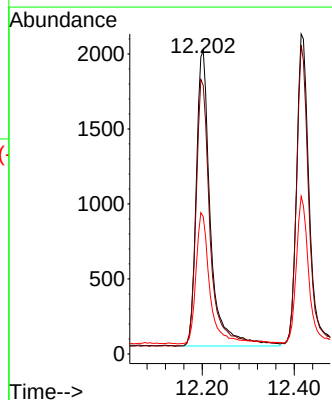
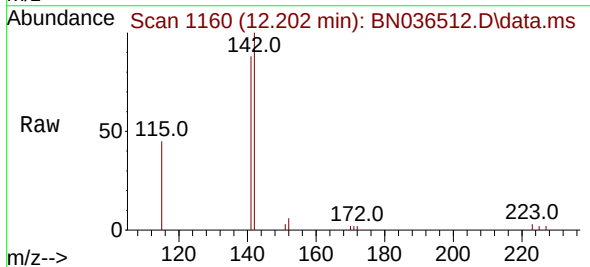
Instrument :
BNA_N
ClientSampleId :
PB166876BS

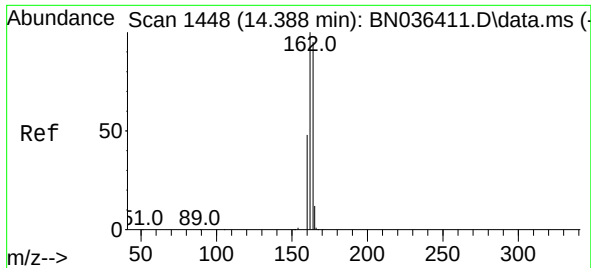
Tgt Ion:152 Resp: 4334
Ion Ratio Lower Upper
152 100
151 15.1 16.6 25.0#



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.202 min Scan# 1160
Delta R.T. -0.010 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:142 Resp: 4224
Ion Ratio Lower Upper
142 100
141 88.4 72.8 109.2
115 45.3 35.5 53.3

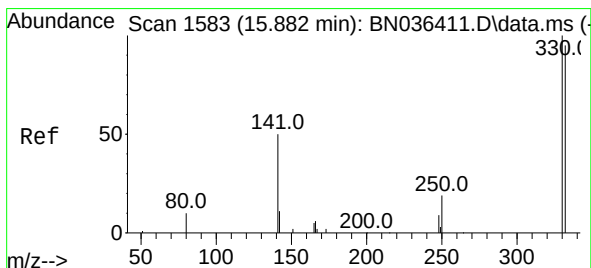
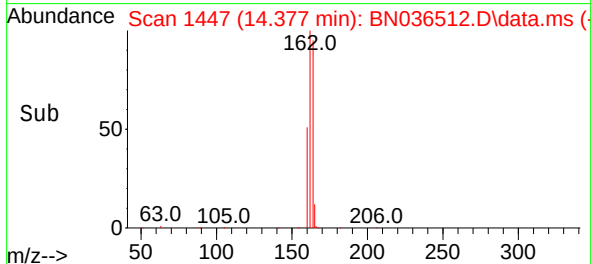
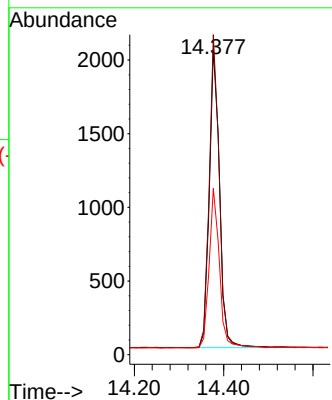
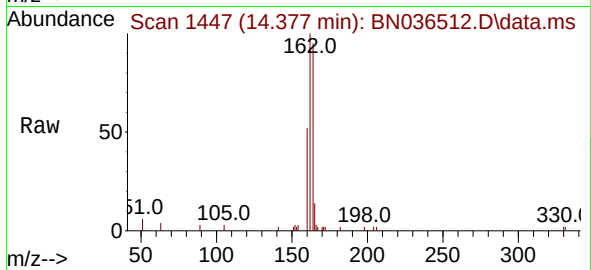




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

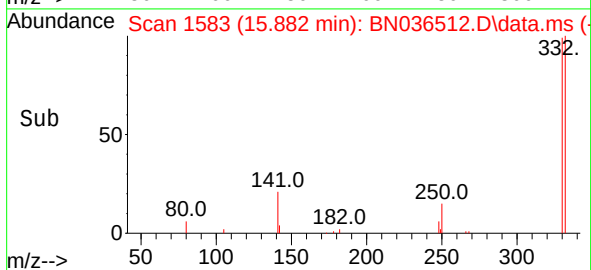
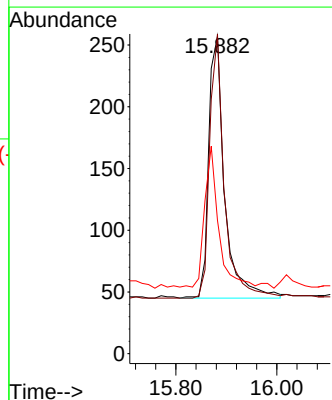
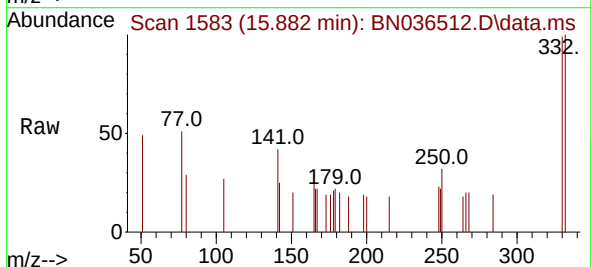
Instrument :
BNA_N
ClientSampleId :
PB166876BS

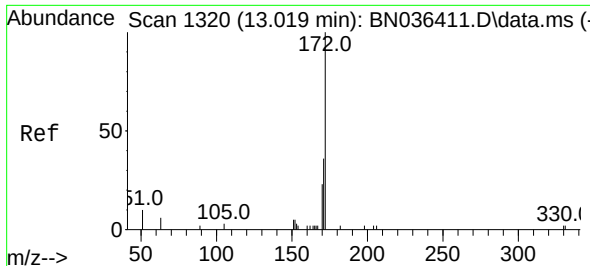
Tgt Ion:164 Resp: 3208
Ion Ratio Lower Upper
164 100
162 104.8 84.1 126.1
160 54.5 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.294 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:330 Resp: 467
Ion Ratio Lower Upper
330 100
332 93.1 76.6 114.8
141 49.7 37.8 56.8

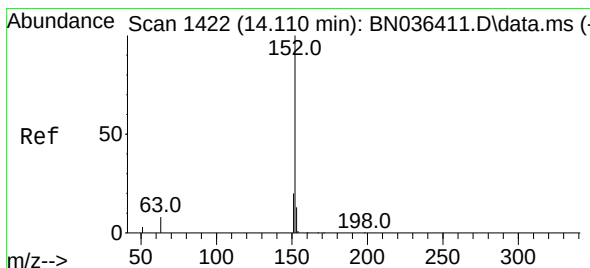
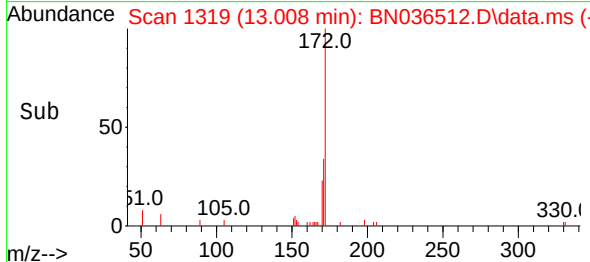
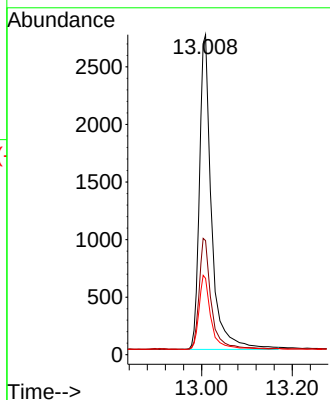
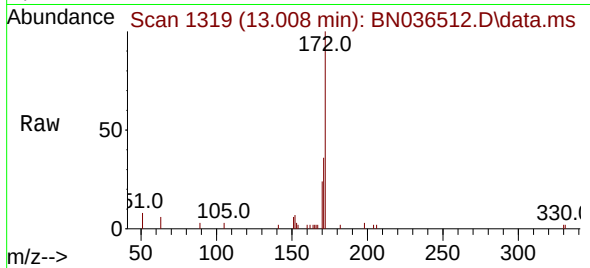




#15
2-Fluorobiphenyl
Concen: 0.491 ng
RT: 13.008 min Scan# 1419
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

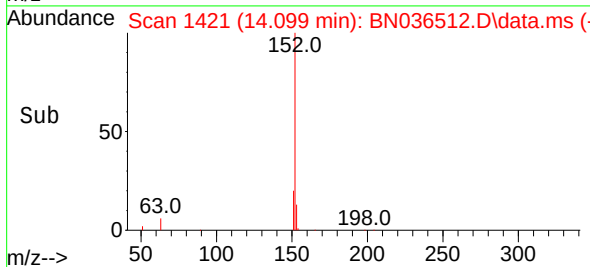
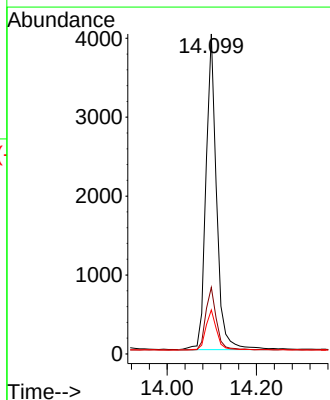
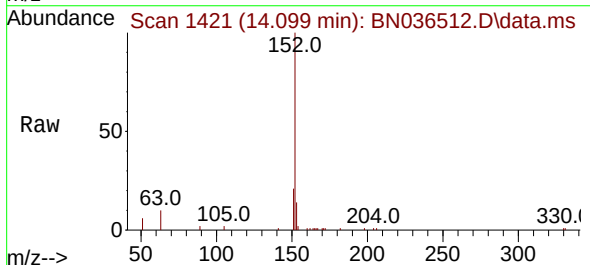
Instrument :
BNA_N
ClientSampleId :
PB166876BS

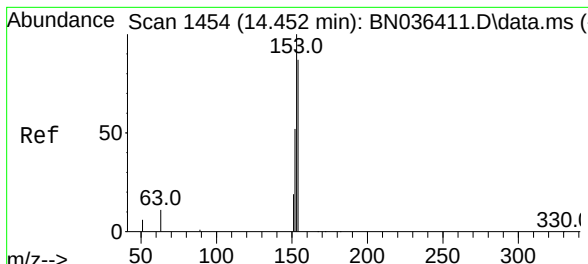
Tgt Ion:	172	Resp:	5925
Ion Ratio	Lower	Upper	
172	100		
171	35.7	29.6	44.4
170	23.9	19.8	29.6



#16
Acenaphthylene
Concen: 0.464 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:	152	Resp:	6576
Ion Ratio	Lower	Upper	
152	100		
151	20.1	15.8	23.8
153	13.0	10.2	15.2

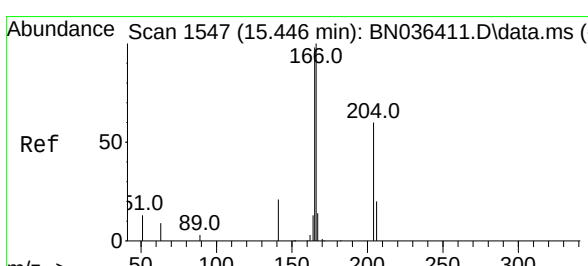
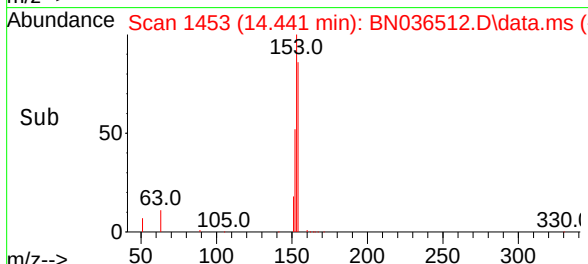
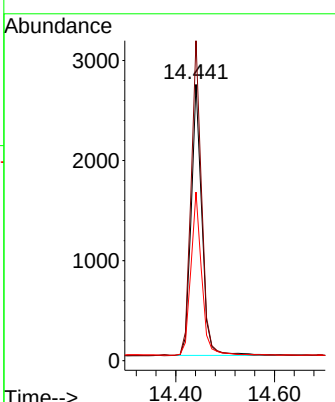
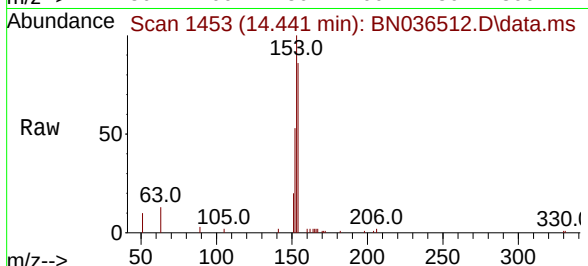




#17
 Acenaphthene
 Concen: 0.431 ng
 RT: 14.441 min Scan# 1453
 Delta R.T. -0.011 min
 Lab File: BN036512.D
 Acq: 26 Feb 2025 16:07

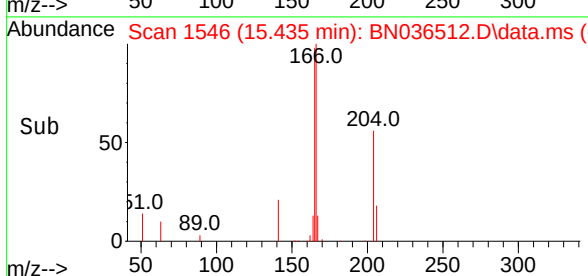
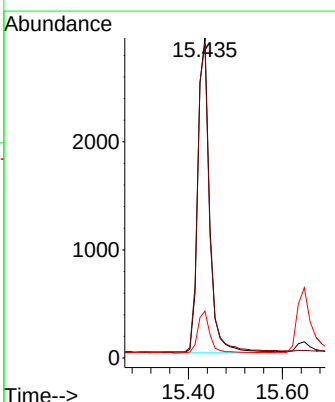
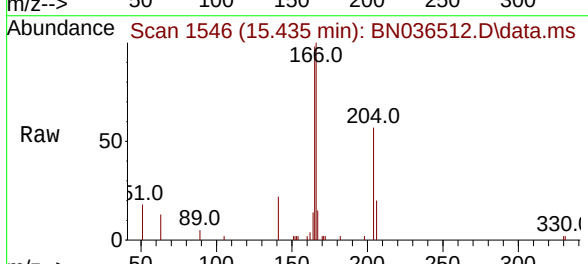
Instrument :
 BNA_N
 ClientSampleId :
 PB166876BS

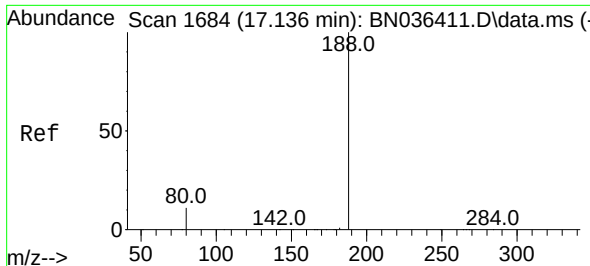
Tgt Ion:	154	Resp:	4081
Ion Ratio	Lower	Upper	
154	100		
153	115.4	93.3	139.9
152	60.6	48.8	73.2



#18
 Fluorene
 Concen: 0.395 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036512.D
 Acq: 26 Feb 2025 16:07

Tgt Ion:	166	Resp:	5322
Ion Ratio	Lower	Upper	
166	100		
165	98.2	79.5	119.3
167	13.2	10.4	15.6

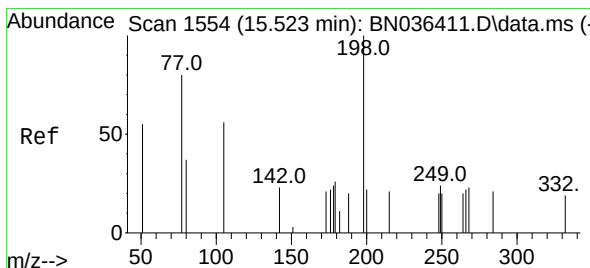
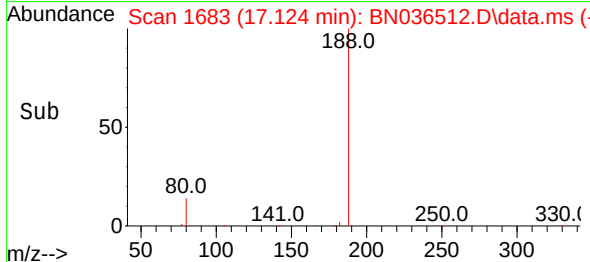
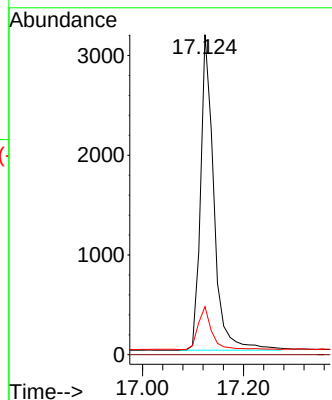
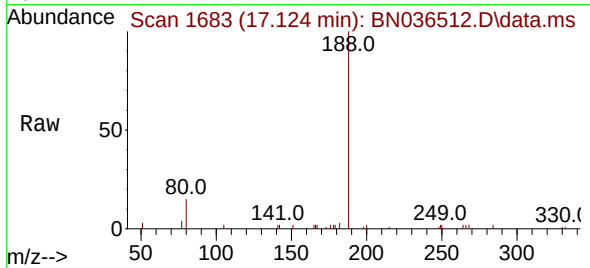




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

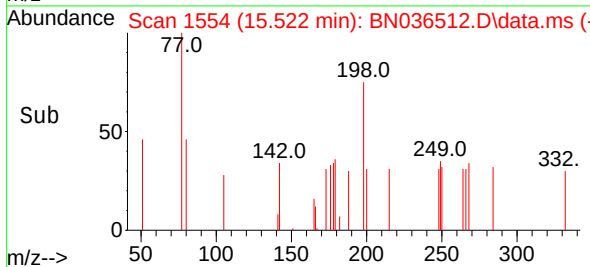
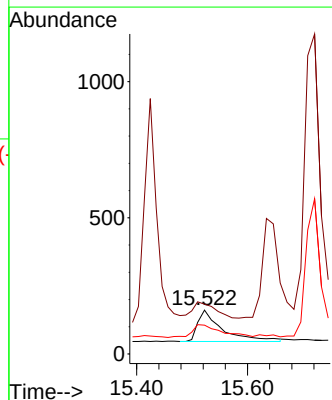
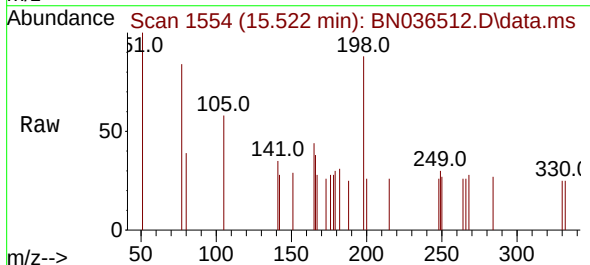
Instrument :
BNA_N
ClientSampleId :
PB166876BS

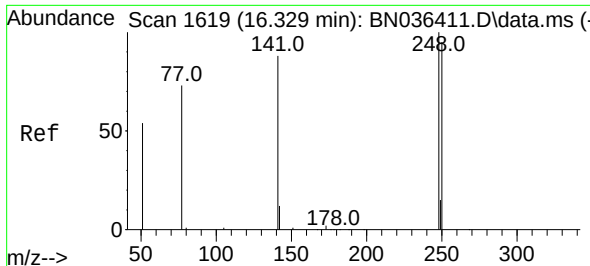
Tgt Ion:188 Resp: 5804
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.0 9.8 14.6#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.309 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.001 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:198 Resp: 352
Ion Ratio Lower Upper
198 100
51 113.7 86.6 129.8
105 65.8 57.5 86.3

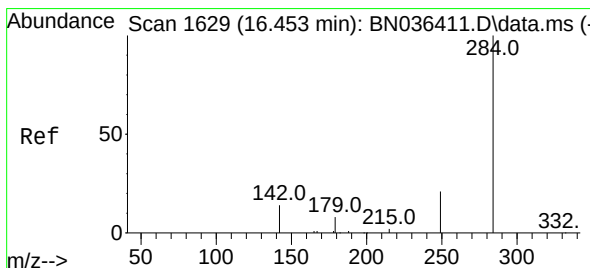
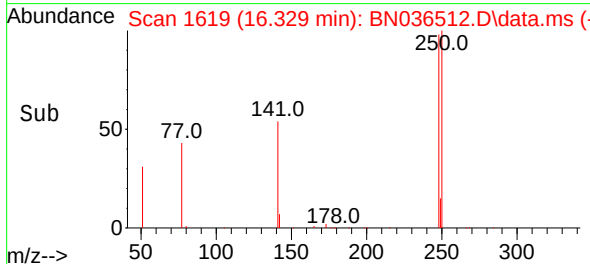
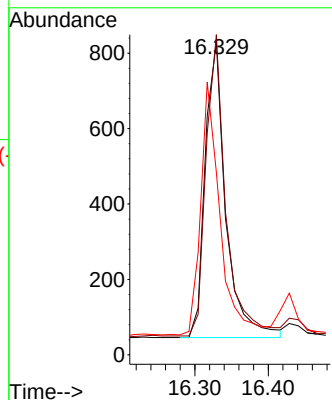
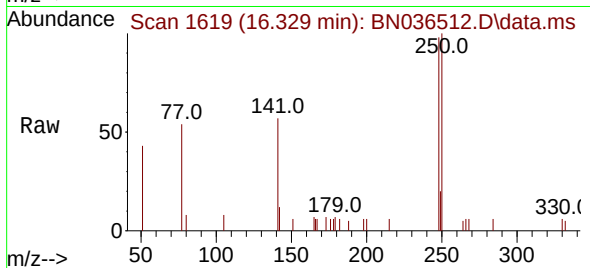




#21
4-Bromophenyl-phenylether
Concen: 0.443 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

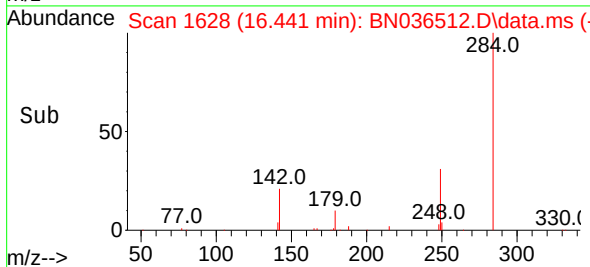
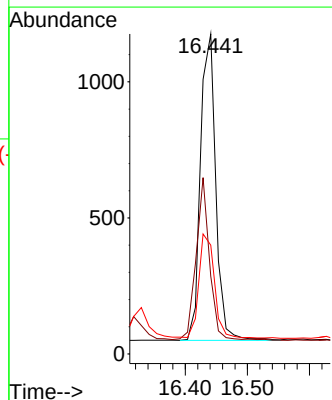
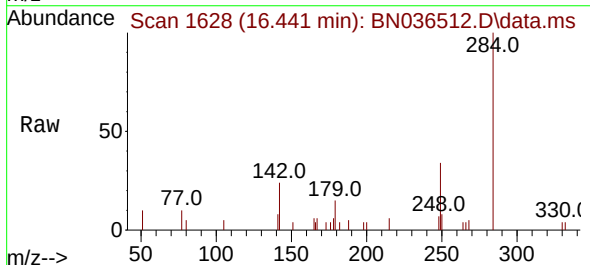
Instrument :
BNA_N
ClientSampleId :
PB166876BS

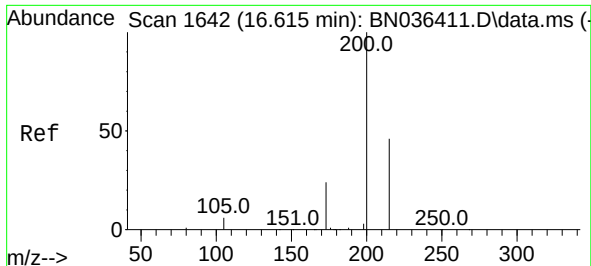
Tgt Ion:248 Resp: 1533
Ion Ratio Lower Upper
248 100
250 102.4 76.1 114.1
141 58.4 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.453 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:284 Resp: 1936
Ion Ratio Lower Upper
284 100
142 47.2 33.4 50.0
249 35.3 28.6 43.0

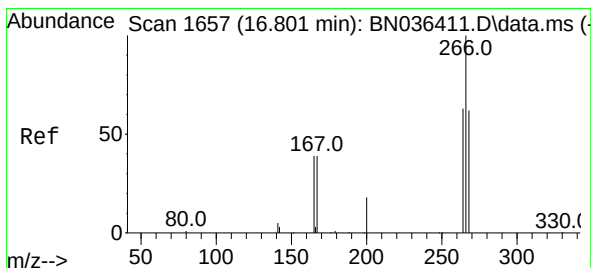
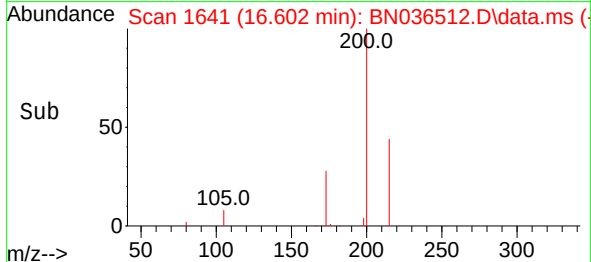
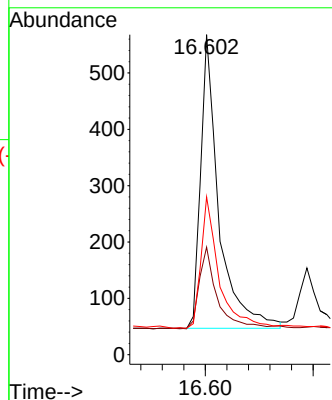
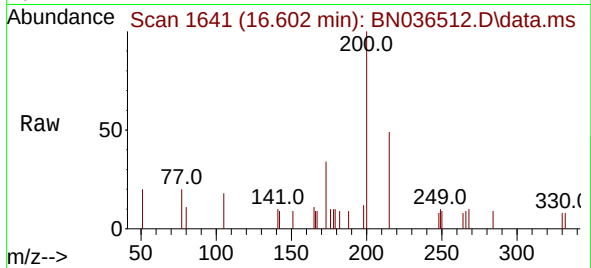




#23
Atrazine
Concen: 0.422 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

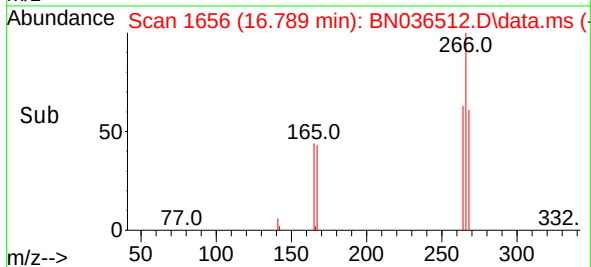
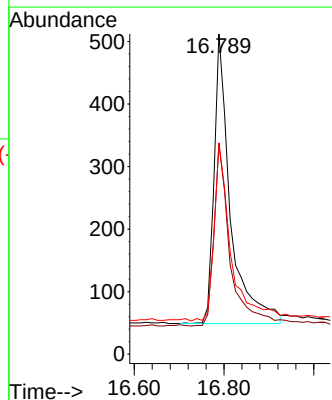
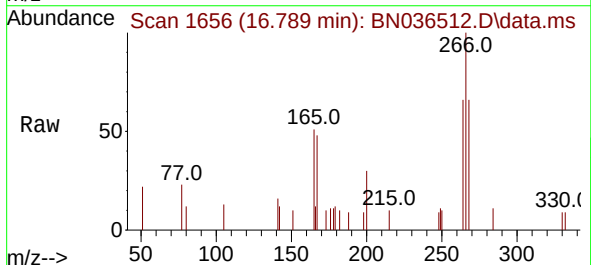
Instrument :
BNA_N
ClientSampleId :
PB166876BS

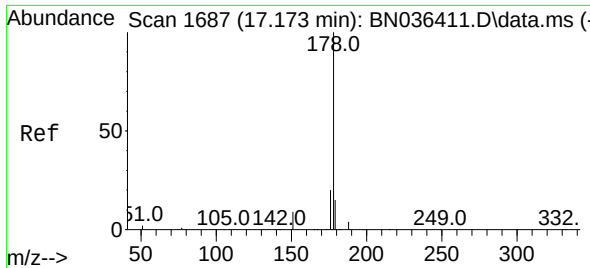
Tgt Ion:200 Resp: 1219
Ion Ratio Lower Upper
200 100
173 33.6 23.2 34.8
215 49.3 40.0 60.0



#24
Pentachlorophenol
Concen: 0.578 ng
RT: 16.789 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Tgt Ion:266 Resp: 1174
Ion Ratio Lower Upper
266 100
264 62.8 50.6 76.0
268 63.0 51.9 77.9

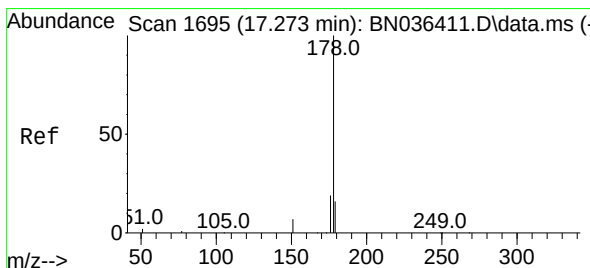
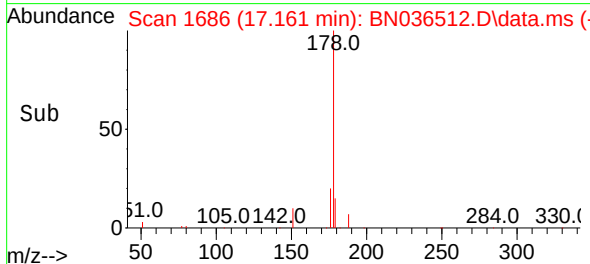
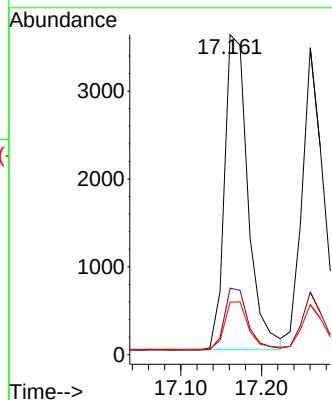
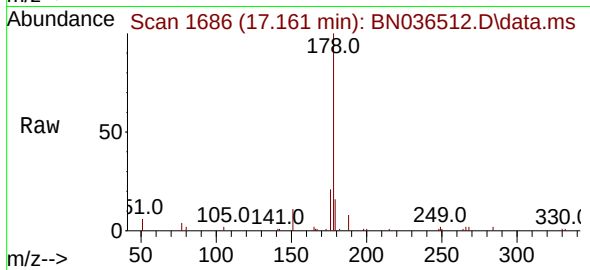




#25
 Phenanthrene
 Concen: 0.433 ng
 RT: 17.161 min Scan# 1686
 Delta R.T. -0.012 min
 Lab File: BN036512.D
 Acq: 26 Feb 2025 16:07

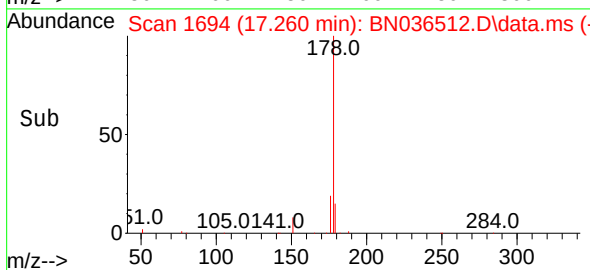
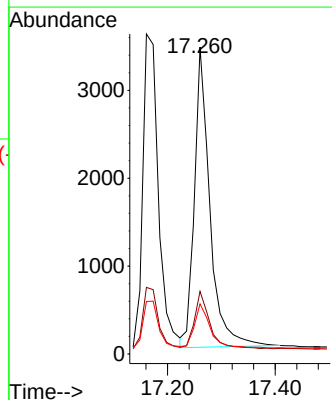
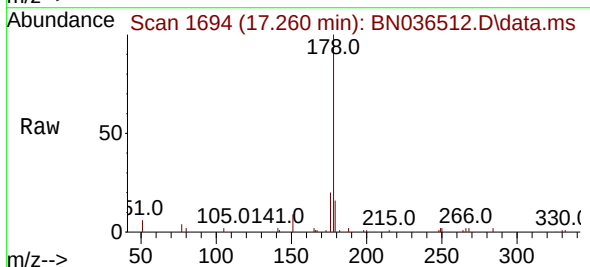
Instrument :
 BNA_N
 ClientSampleId :
 PB166876BS

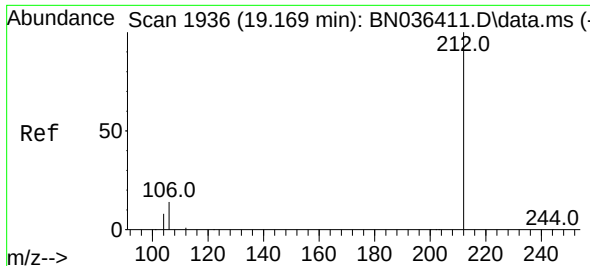
Tgt Ion:	178	Resp:	7256
Ion Ratio	Lower	Upper	
178	100		
176	19.6	15.7	23.5
179	15.6	12.4	18.6



#26
 Anthracene
 Concen: 0.460 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.012 min
 Lab File: BN036512.D
 Acq: 26 Feb 2025 16:07

Tgt Ion:	178	Resp:	6809
Ion Ratio	Lower	Upper	
178	100		
176	19.1	14.9	22.3
179	15.3	12.4	18.6





#27

Fluoranthene-d10

Concen: 0.339 ng

RT: 19.160 min Scan# 1934

Delta R.T. -0.009 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

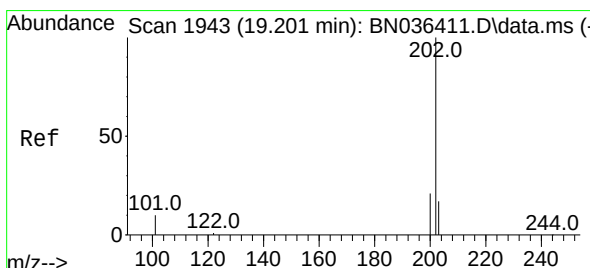
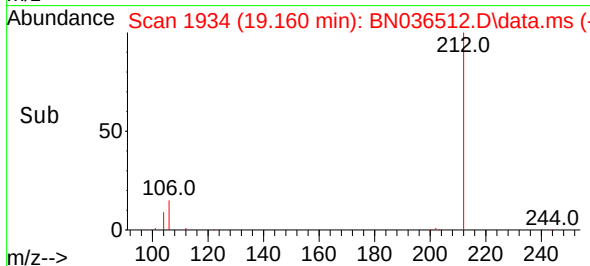
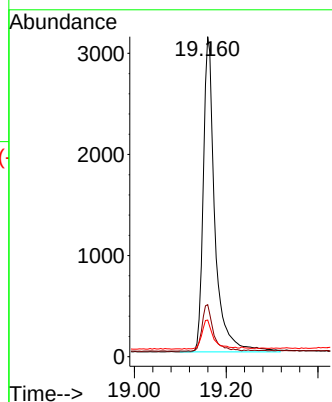
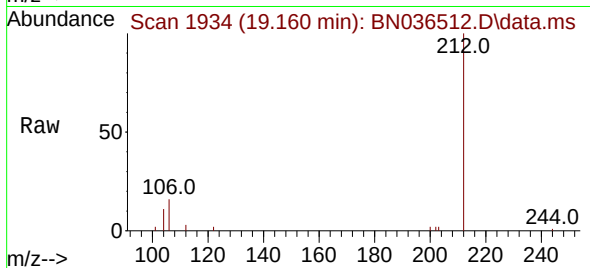
Instrument :

BNA_N

ClientSampleId :

PB166876BS

Tgt Ion:212	Resp:	5465
Ion Ratio	Lower	Upper
212	100	
106	14.3	11.5 17.3
104	9.0	7.1 10.7



#28

Fluoranthene

Concen: 0.363 ng

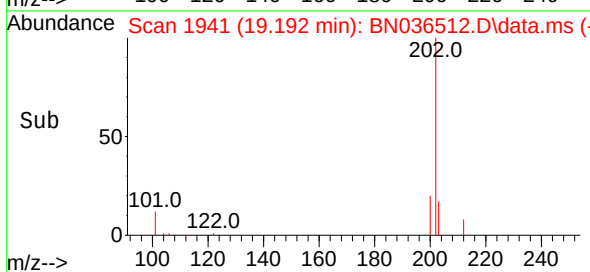
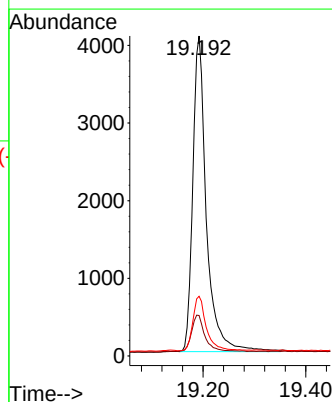
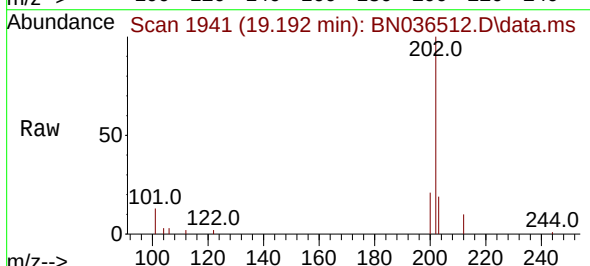
RT: 19.192 min Scan# 1941

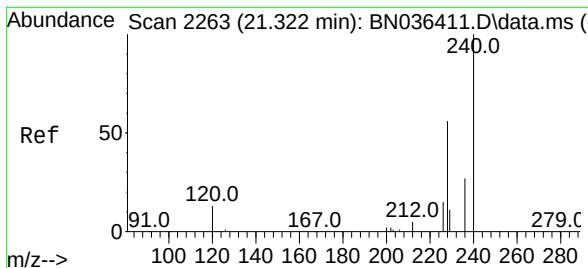
Delta R.T. -0.009 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Tgt Ion:202	Resp:	7477
Ion Ratio	Lower	Upper
202	100	
101	12.1	9.2 13.8
203	17.2	13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036512.D

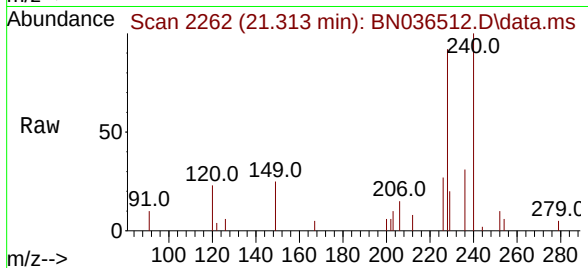
Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS



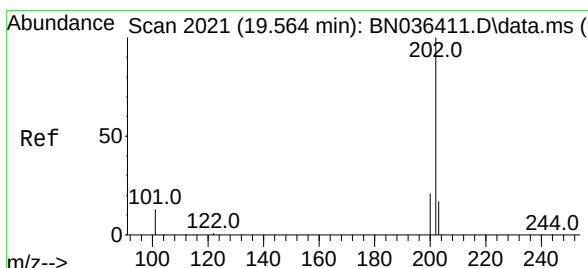
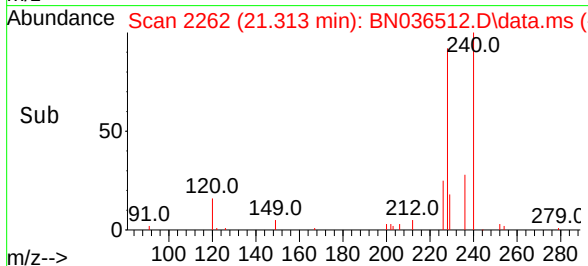
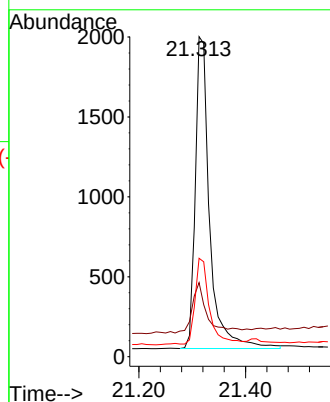
Tgt Ion:240 Resp: 3657

Ion Ratio Lower Upper

240 100

120 23.2 13.3 19.9#

236 30.8 23.0 34.6



#30

Pyrene

Concen: 0.540 ng

RT: 19.554 min Scan# 2019

Delta R.T. -0.009 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

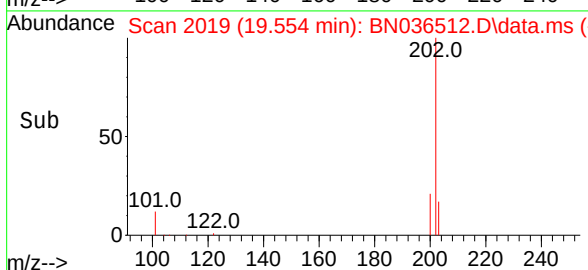
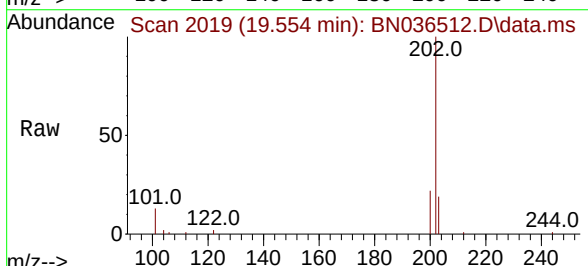
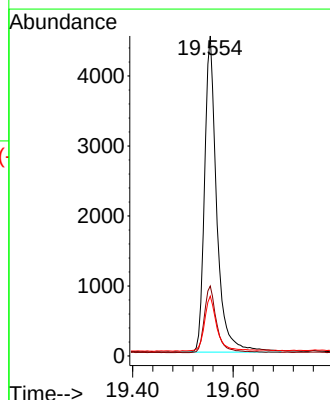
Tgt Ion:202 Resp: 7603

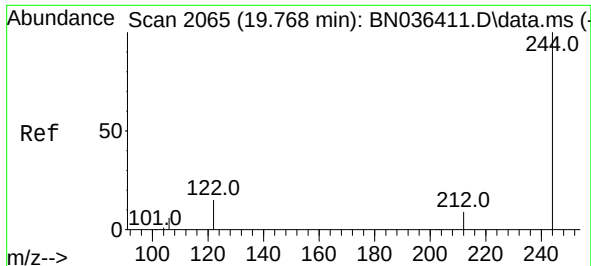
Ion Ratio Lower Upper

202 100

200 21.2 16.9 25.3

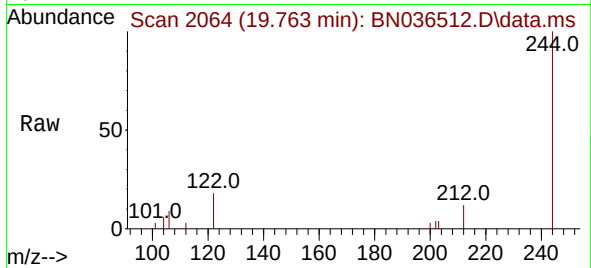
203 18.0 13.9 20.9



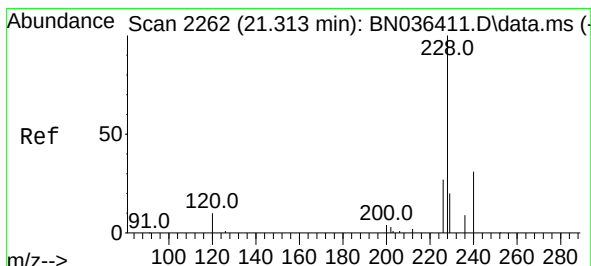
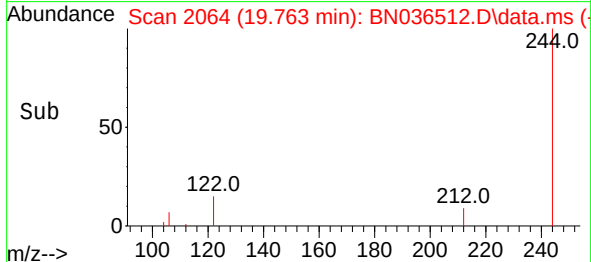
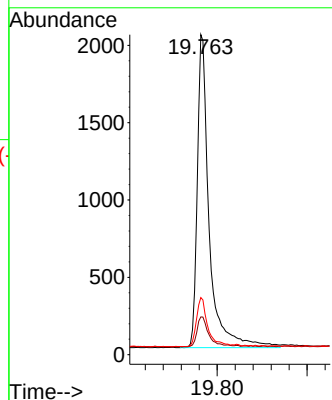


#31
 Terphenyl-d14
 Concen: 0.478 ng
 RT: 19.763 min Scan# 2064
 Delta R.T. -0.005 min
 Lab File: BN036512.D
 Acq: 26 Feb 2025 16:07

Instrument :
 BNA_N
 ClientSampleId :
 PB166876BS

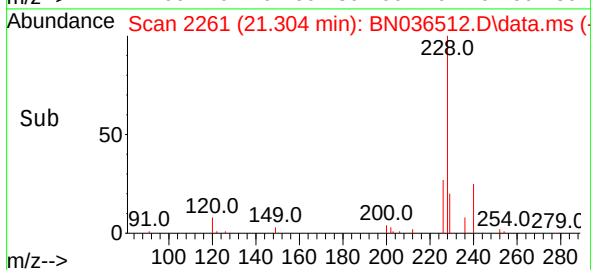
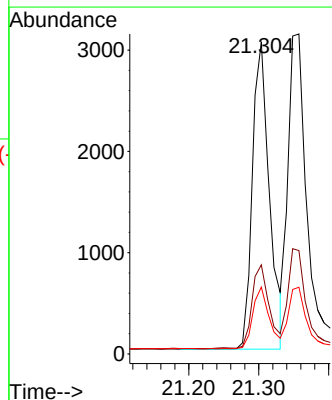
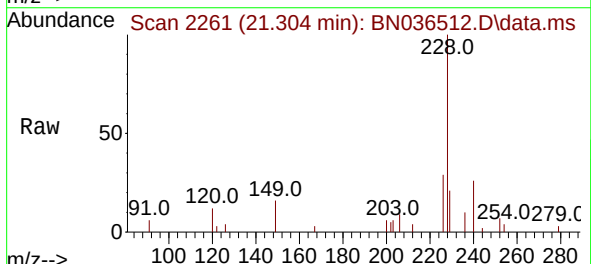


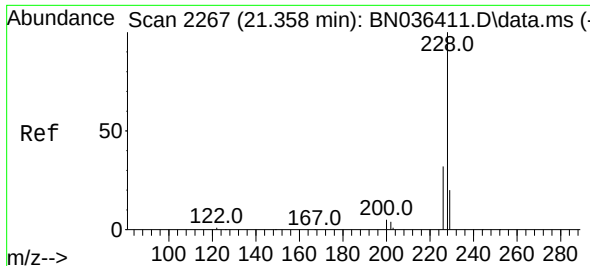
Tgt Ion:244 Resp: 3729
 Ion Ratio Lower Upper
 244 100
 212 11.8 8.1 12.1
 122 17.8 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.425 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036512.D
 Acq: 26 Feb 2025 16:07

Tgt Ion:228 Resp: 5112
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.2 33.2
 229 21.4 16.5 24.7





#33

Chrysene

Concen: 0.459 ng

RT: 21.357 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS

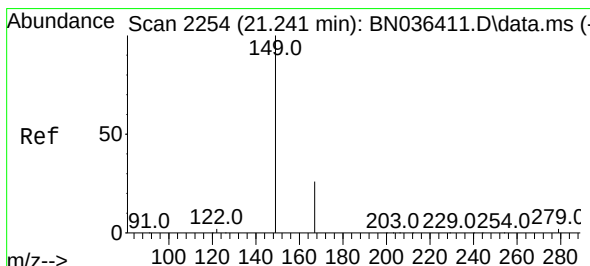
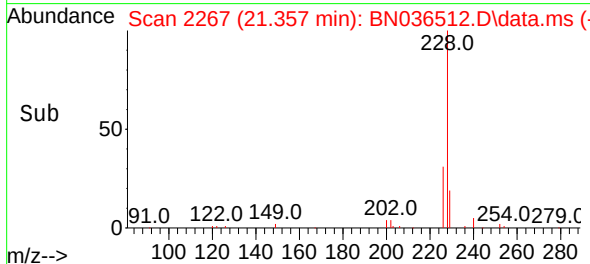
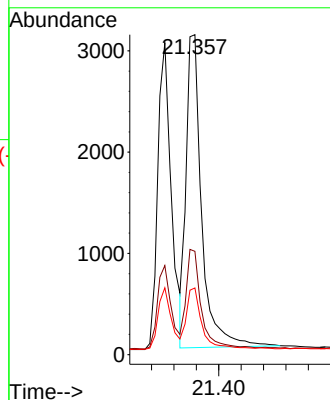
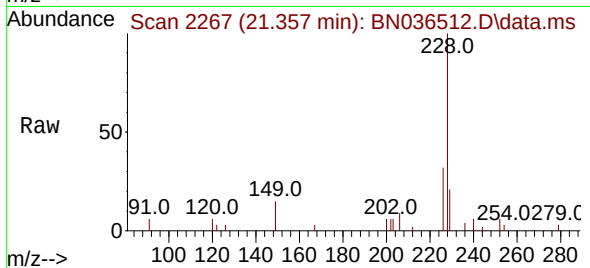
Tgt Ion:228 Resp: 5975

Ion Ratio Lower Upper

228 100

226 32.3 25.5 38.3

229 20.8 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.467 ng

RT: 21.232 min Scan# 2253

Delta R.T. -0.009 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

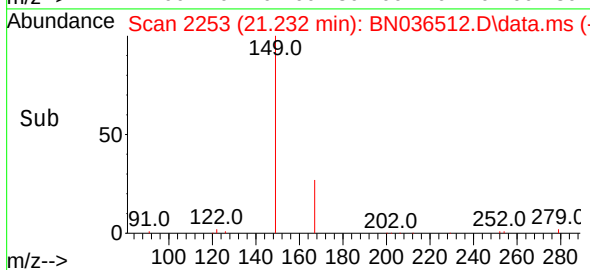
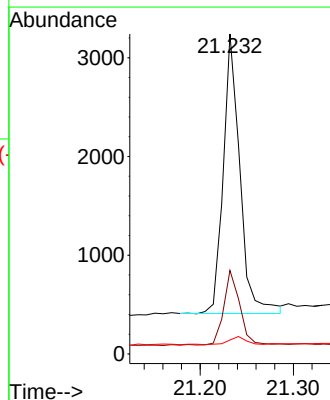
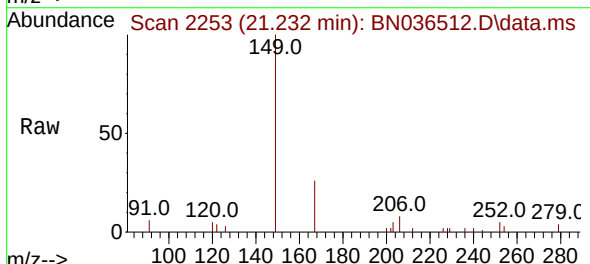
Tgt Ion:149 Resp: 3504

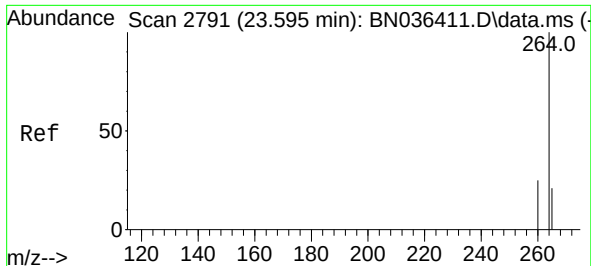
Ion Ratio Lower Upper

149 100

167 26.2 21.2 31.8

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.584 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036512.D

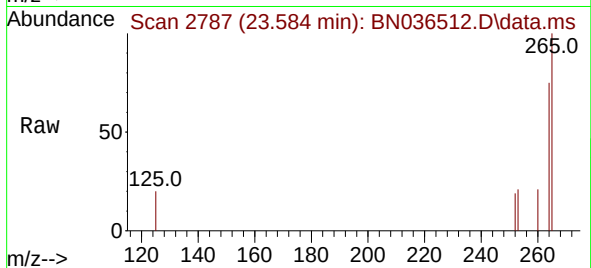
Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS



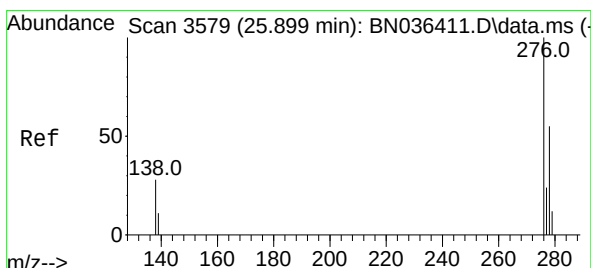
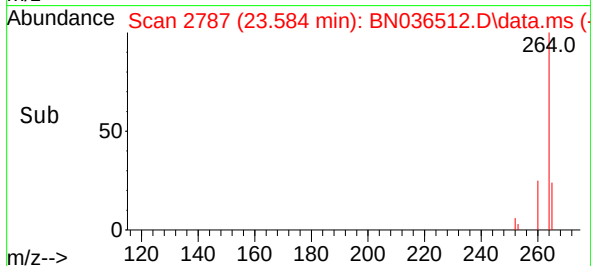
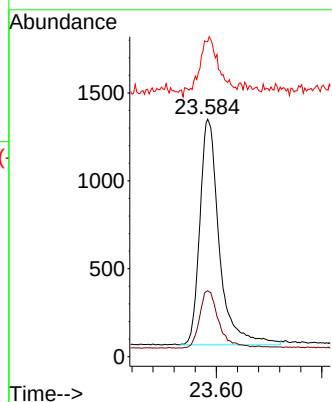
Tgt Ion:264 Resp: 3285

Ion Ratio Lower Upper

264 100

260 27.8 20.9 31.3

265 132.7 60.7 91.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.481 ng

RT: 25.884 min Scan# 3574

Delta R.T. -0.015 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

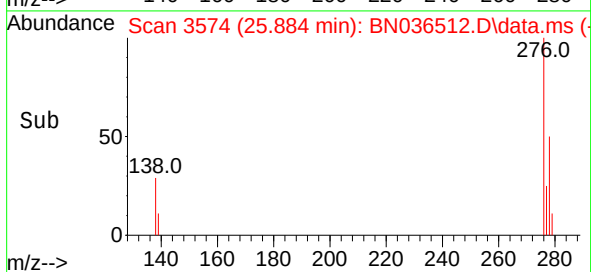
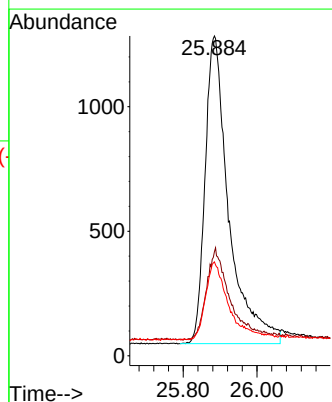
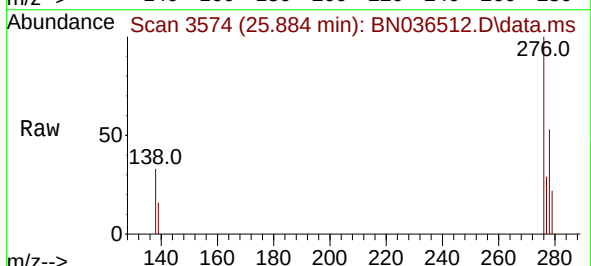
Tgt Ion:276 Resp: 5525

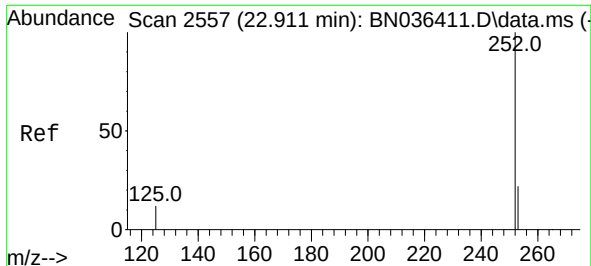
Ion Ratio Lower Upper

276 100

138 27.6 22.2 33.2

277 24.3 19.8 29.6





#37

Benzo(b)fluoranthene

Concen: 0.435 ng

RT: 22.899 min Scan# 2553

Delta R.T. -0.012 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS

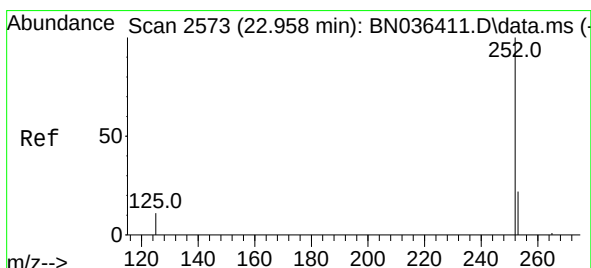
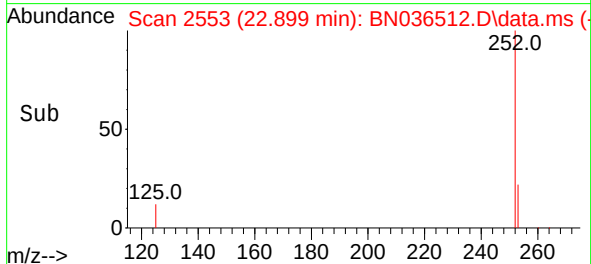
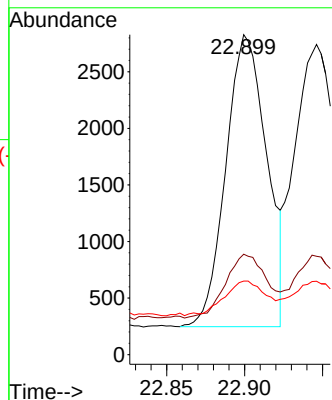
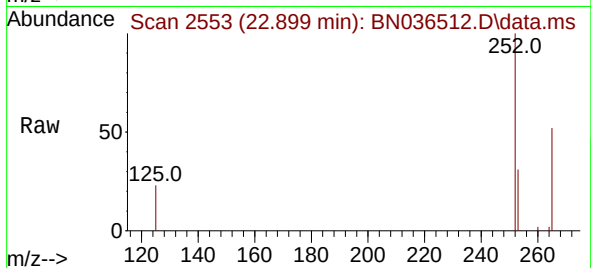
Tgt Ion:252 Resp: 4703

Ion Ratio Lower Upper

252 100

253 31.4 21.9 32.9

125 23.0 15.0 22.6#



#38

Benzo(k)fluoranthene

Concen: 0.494 ng

RT: 22.946 min Scan# 2569

Delta R.T. -0.012 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

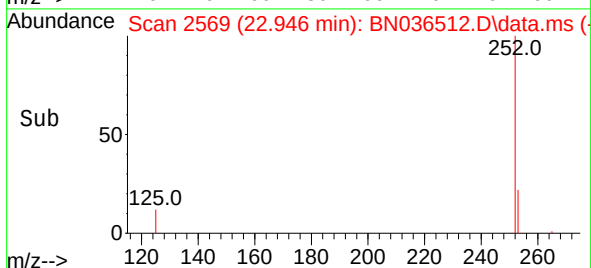
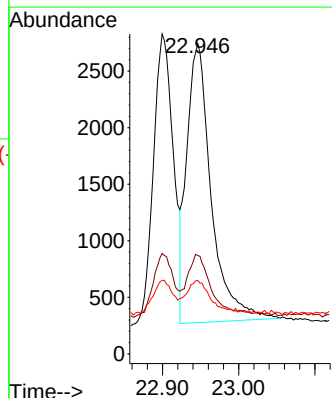
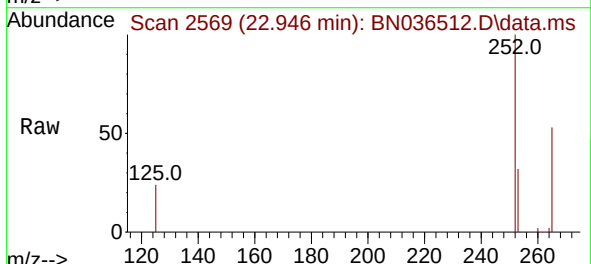
Tgt Ion:252 Resp: 5500

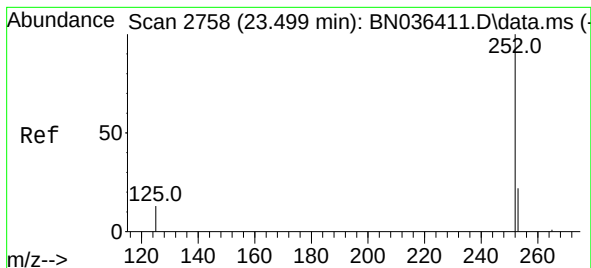
Ion Ratio Lower Upper

252 100

253 31.7 22.2 33.4

125 23.7 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.495 ng

RT: 23.487 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036512.D

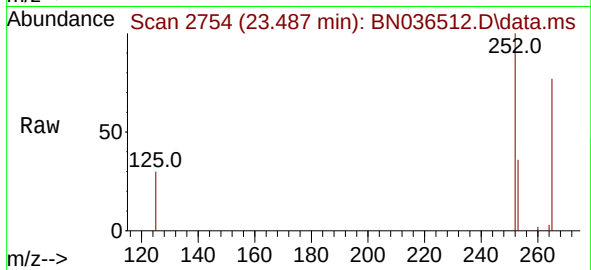
Acq: 26 Feb 2025 16:07

Instrument :

BNA_N

ClientSampleId :

PB166876BS



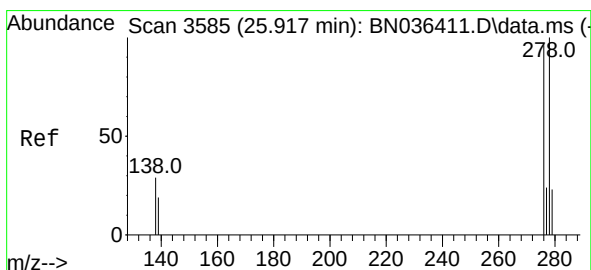
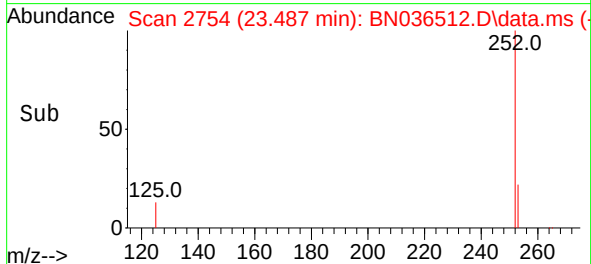
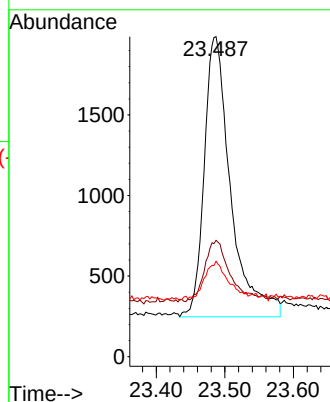
Tgt Ion:252 Resp: 4670

Ion Ratio Lower Upper

252 100

253 36.4 24.4 36.6

125 29.8 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.455 ng

RT: 25.902 min Scan# 3580

Delta R.T. -0.015 min

Lab File: BN036512.D

Acq: 26 Feb 2025 16:07

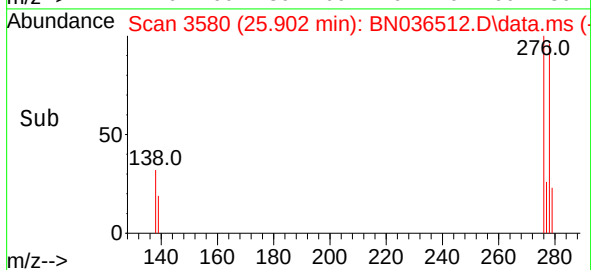
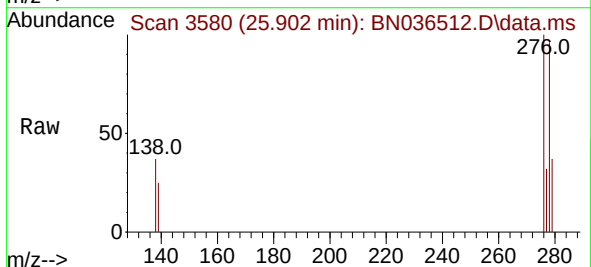
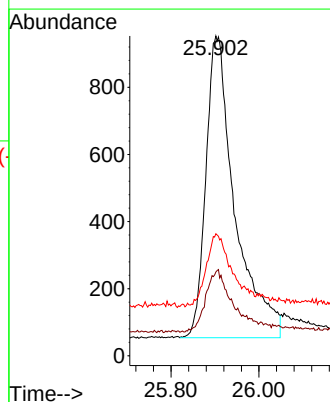
Tgt Ion:278 Resp: 4122

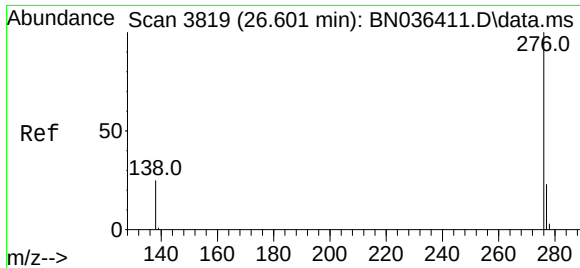
Ion Ratio Lower Upper

278 100

139 26.2 18.5 27.7

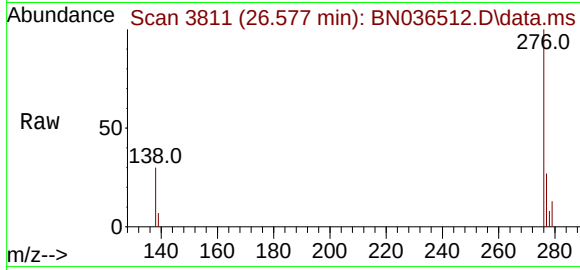
279 38.2 24.8 37.2#



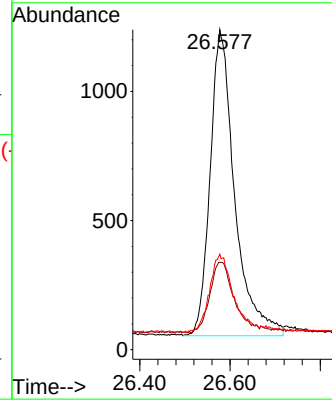
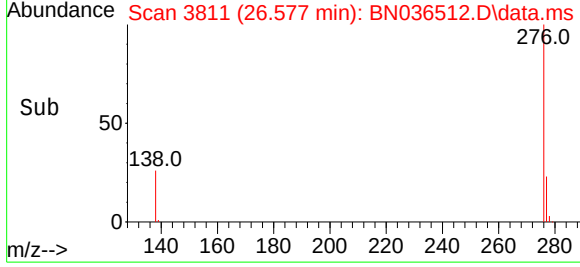


#41
Benzo(g,h,i)perylene
Concen: 0.436 ng
RT: 26.577 min Scan# 3811
Delta R.T. -0.023 min
Lab File: BN036512.D
Acq: 26 Feb 2025 16:07

Instrument :
BNA_N
ClientSampleId :
PB166876BS



Tgt Ion:276 Resp: 4481
Ion Ratio Lower Upper
276 100
277 27.4 20.7 31.1
138 29.9 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036513.D
 Acq On : 26 Feb 2025 16:44
 Operator : RC/JU
 Sample : PB166876BSD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB166876BSD

Quant Time: Feb 26 17:08:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

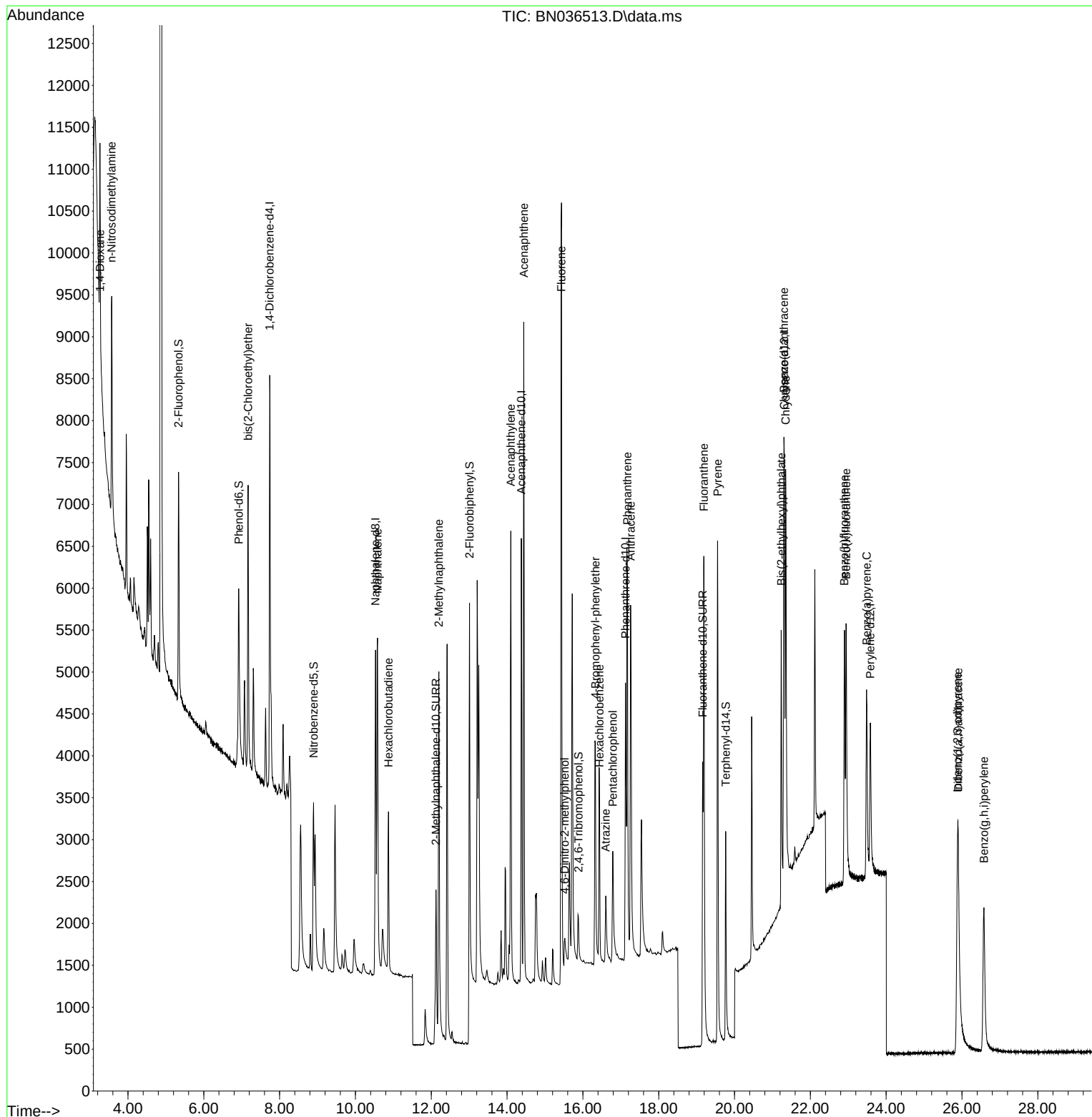
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2476	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5554	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	2910	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	5252	0.400	ng	#-0.01
29) Chrysene-d12	21.313	240	3329	0.400	ng	# 0.00
35) Perylene-d12	23.583	264	2986	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2191	0.374	ng	-0.01
5) Phenol-d6	6.923	99	2453	0.357	ng	-0.01
8) Nitrobenzene-d5	8.896	82	2140	0.390	ng	-0.01
11) 2-Methylnaphthalene-d10	12.126	152	4120	0.483	ng	-0.02
14) 2,4,6-Tribromophenol	15.882	330	413	0.286	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	5561	0.508	ng	-0.01
27) Fluoranthene-d10	19.160	212	4937	0.338	ng	0.00
31) Terphenyl-d14	19.768	244	3361	0.473	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	1012	0.374	ng	# 64
3) n-Nitrosodimethylamine	3.564	42	2128	0.452	ng	# 90
6) bis(2-Chloroethyl)ether	7.168	93	2692	0.375	ng	99
9) Naphthalene	10.583	128	6389	0.399	ng	99
10) Hexachlorobutadiene	10.872	225	1621	0.416	ng	# 100
12) 2-Methylnaphthalene	12.202	142	3889	0.370	ng	98
16) Acenaphthylene	14.099	152	6135	0.477	ng	99
17) Acenaphthene	14.441	154	3815	0.444	ng	99
18) Fluorene	15.435	166	4829	0.395	ng	98
20) 4,6-Dinitro-2-methylph...	15.522	198	284	0.276	ng	# 81
21) 4-Bromophenyl-phenylether	16.329	248	1401	0.447	ng	# 83
22) Hexachlorobenzene	16.441	284	1790	0.463	ng	96
23) Atrazine	16.602	200	1070	0.409	ng	# 95
24) Pentachlorophenol	16.788	266	1005	0.547	ng	99
25) Phenanthrene	17.173	178	6582	0.434	ng	99
26) Anthracene	17.260	178	6077	0.454	ng	100
28) Fluoranthene	19.192	202	6786	0.364	ng	99
30) Pyrene	19.554	202	6905	0.539	ng	99
32) Benzo(a)anthracene	21.304	228	4649	0.424	ng	99
33) Chrysene	21.348	228	5551	0.468	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	3065	0.449	ng	100
36) Indeno(1,2,3-cd)pyrene	25.881	276	5305	0.508	ng	98
37) Benzo(b)fluoranthene	22.899	252	4341	0.441	ng	# 88
38) Benzo(k)fluoranthene	22.943	252	5111	0.505	ng	# 91
39) Benzo(a)pyrene	23.484	252	4229	0.493	ng	# 86
40) Dibenzo(a,h)anthracene	25.902	278	3859	0.469	ng	# 90
41) Benzo(g,h,i)perylene	26.580	276	4322	0.463	ng	96

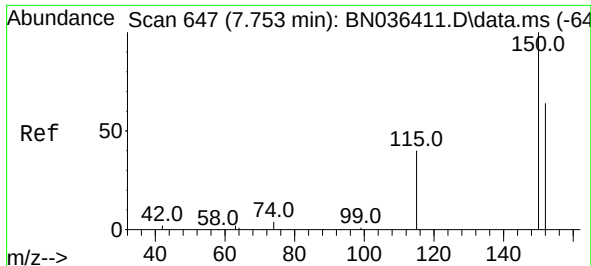
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
Data File : BN036513.D
Acq On : 26 Feb 2025 16:44
Operator : RC/JU
Sample : PB166876BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB166876BSD

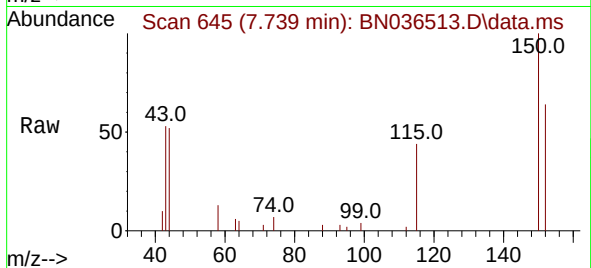
Quant Time: Feb 26 17:08:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration



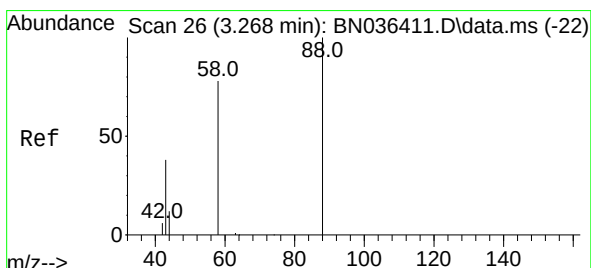
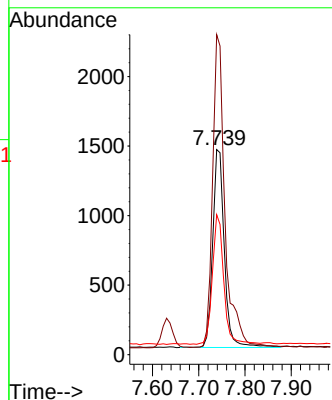
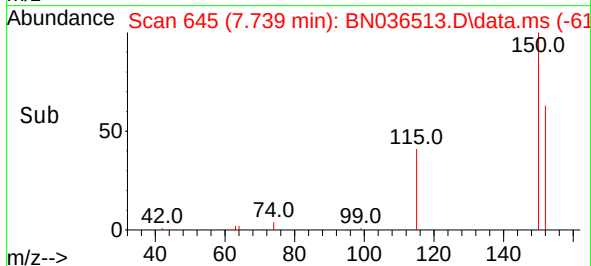


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

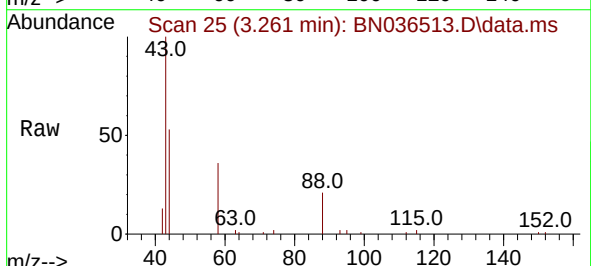
Instrument :
BNA_N
ClientSampleId :
PB166876BSD



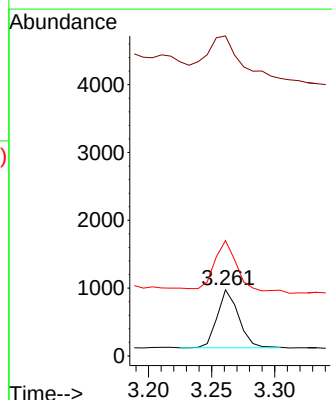
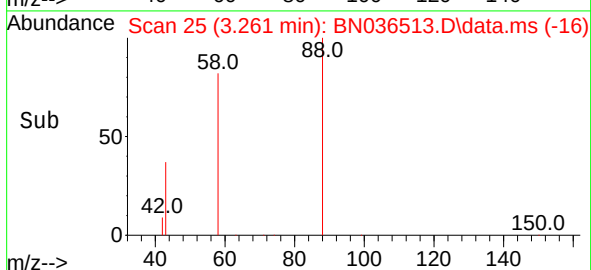
Tgt Ion:152 Resp: 2476
Ion Ratio Lower Upper
152 100
150 156.0 123.7 185.5
115 68.3 52.5 78.7

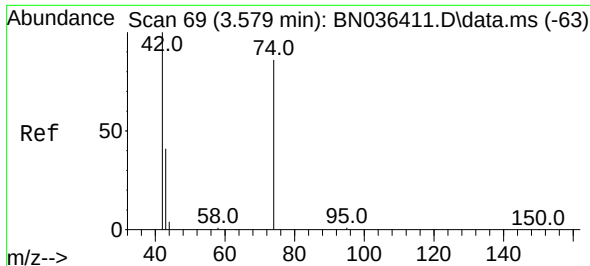


#2
1,4-Dioxane
Concen: 0.374 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44



Tgt Ion: 88 Resp: 1012
Ion Ratio Lower Upper
88 100
43 110.8 33.7 50.5#
58 85.6 68.9 103.3

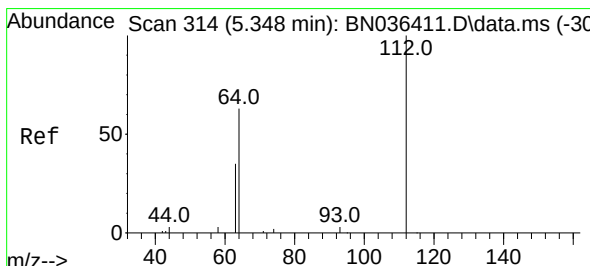
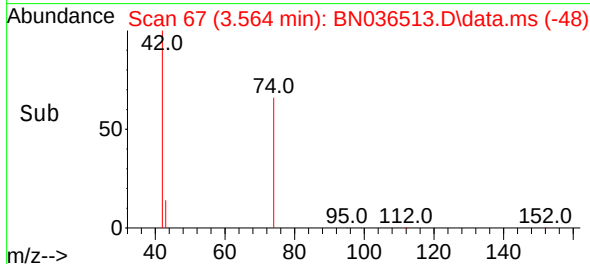
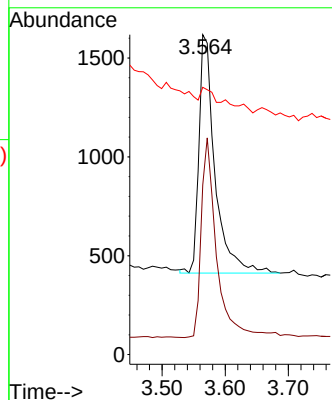
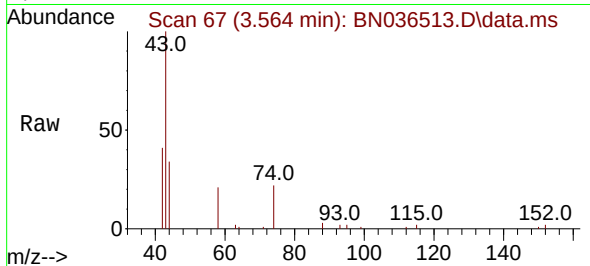




#3
 n-Nitrosodimethylamine
 Concen: 0.452 ng
 RT: 3.564 min Scan# 61
 Delta R.T. -0.015 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

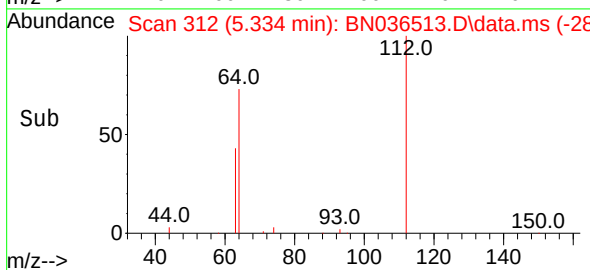
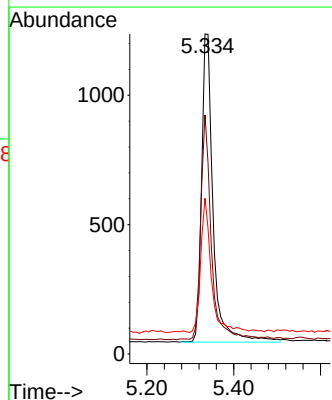
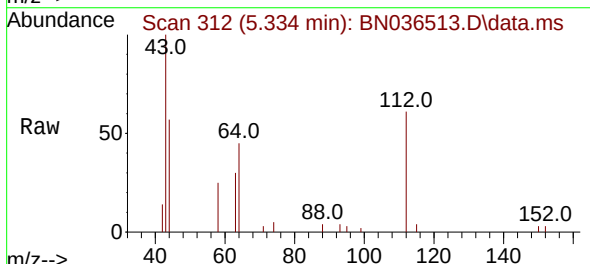
Instrument :
 BNA_N
 ClientSampleId :
 PB166876BSD

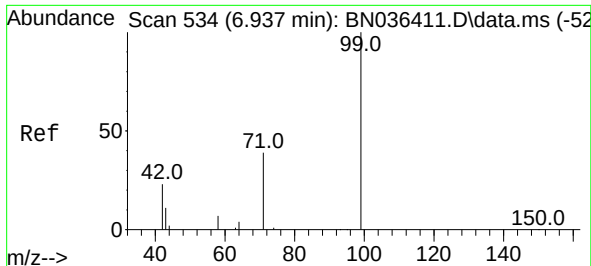
Tgt Ion: 42 Resp: 2128
 Ion Ratio Lower Upper
 42 100
 74 80.4 71.8 107.6
 44 14.5 7.8 11.6#



#4
 2-Fluorophenol
 Concen: 0.374 ng
 RT: 5.334 min Scan# 312
 Delta R.T. -0.015 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

Tgt Ion: 112 Resp: 2191
 Ion Ratio Lower Upper
 112 100
 64 66.8 53.4 80.0
 63 40.1 30.3 45.5

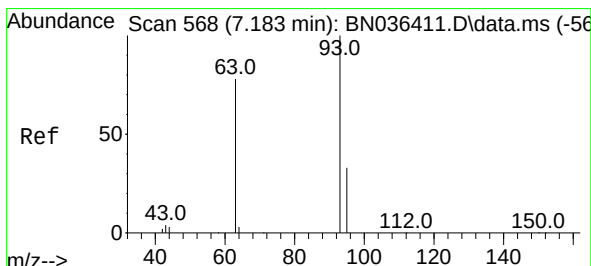
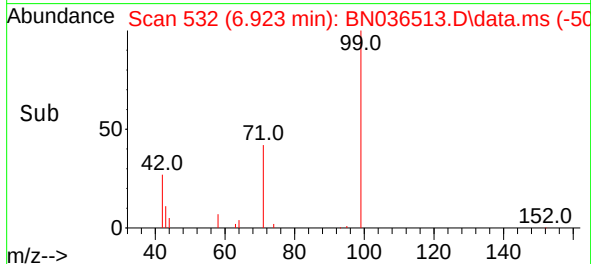
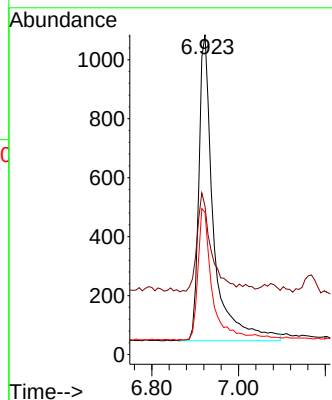
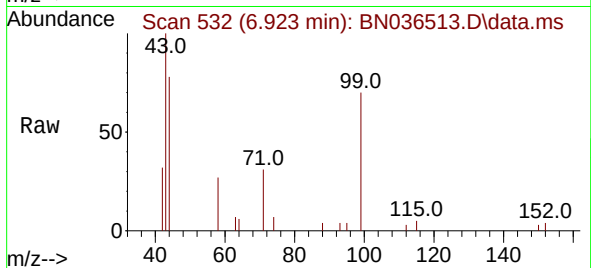




#5
Phenol-d6
Concen: 0.357 ng
RT: 6.923 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

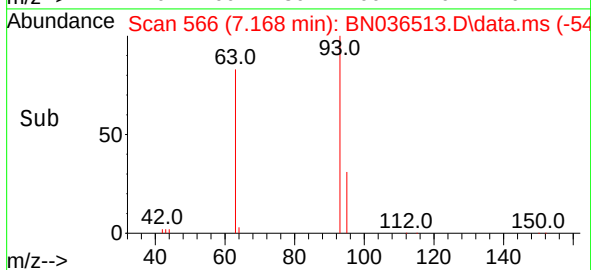
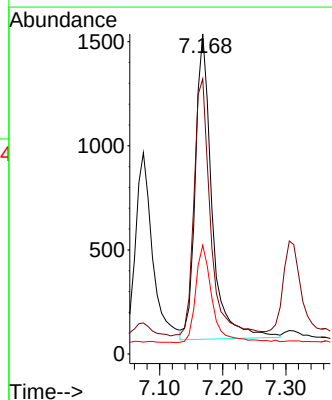
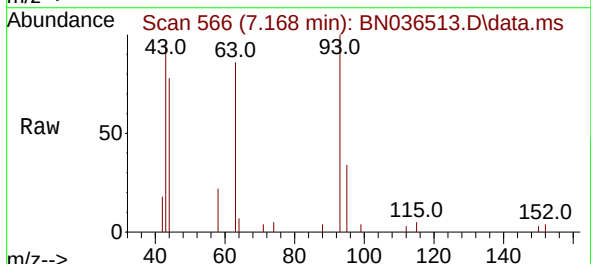
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

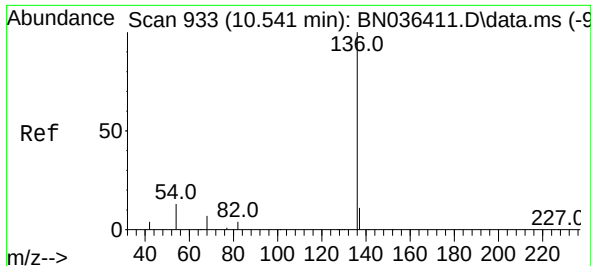
Tgt Ion:	99	Resp:	2453
Ion	Ratio	Lower	Upper
99	100		
42	31.2	21.7	32.5
71	40.7	32.6	49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.168 min Scan# 566
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:	93	Resp:	2692
Ion	Ratio	Lower	Upper
93	100		
63	83.8	66.3	99.5
95	31.9	26.2	39.4

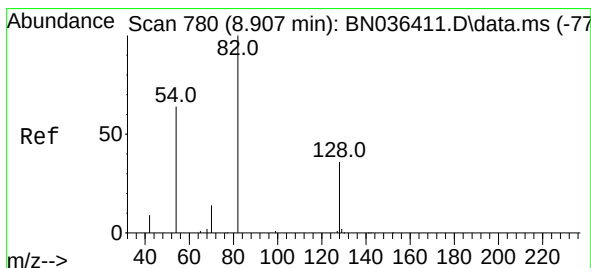
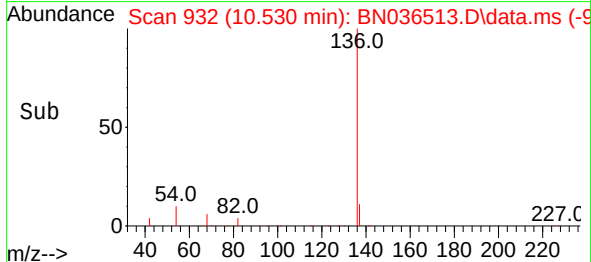
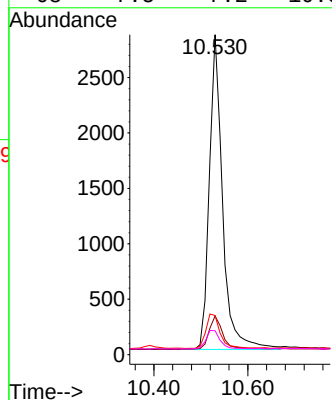
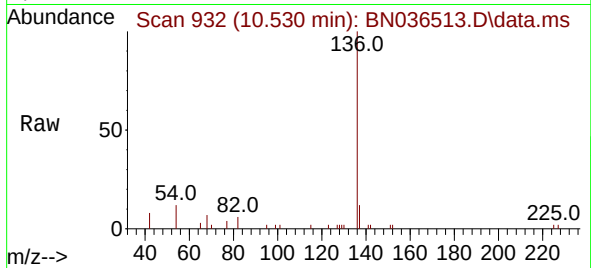




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

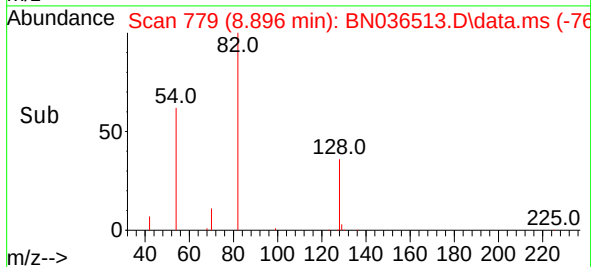
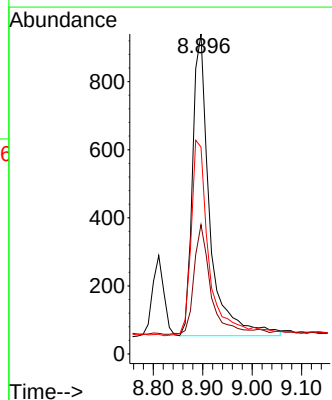
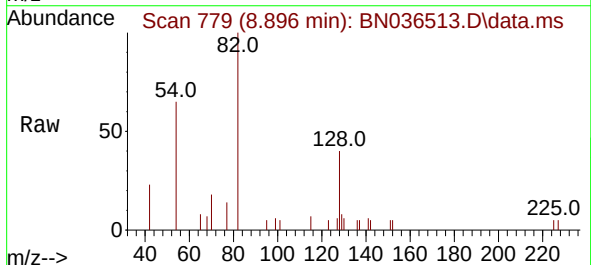
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

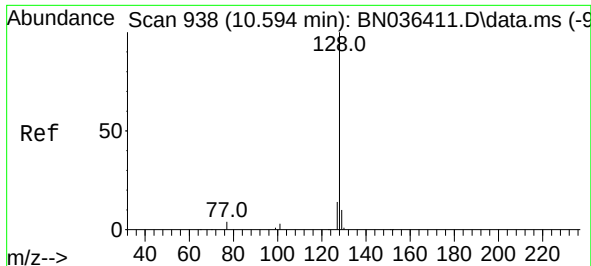
Tgt Ion:	136	Resp:	5554
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.1	15.1
54	12.2	11.8	17.6
68	7.5	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.896 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:	82	Resp:	2140
Ion	Ratio	Lower	Upper
82	100		
128	40.4	31.9	47.9
54	64.7	53.1	79.7

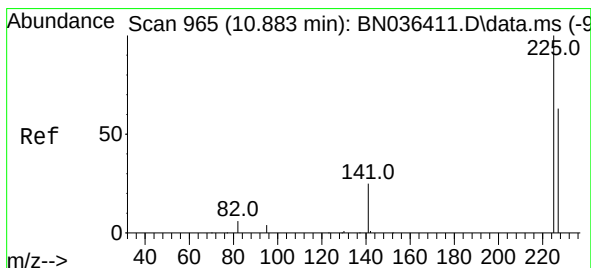
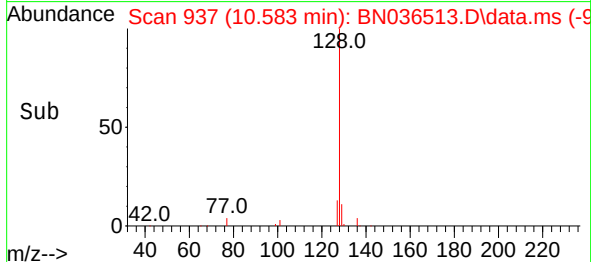
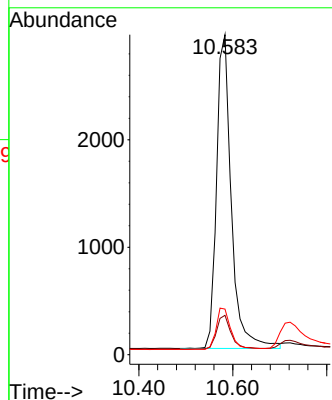
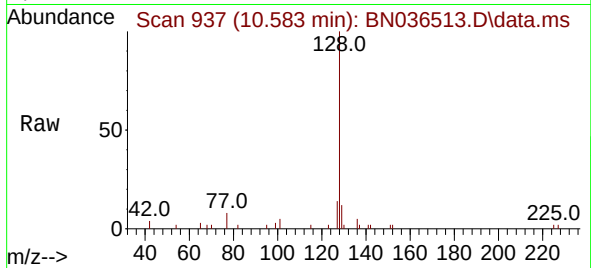




#9
Naphthalene
Concen: 0.399 ng
RT: 10.583 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

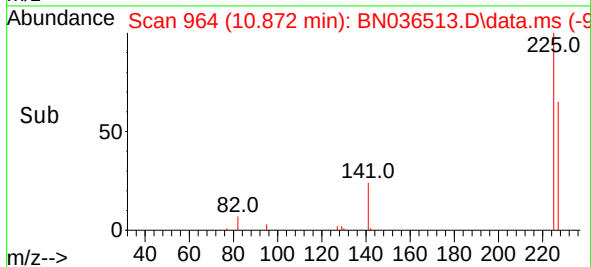
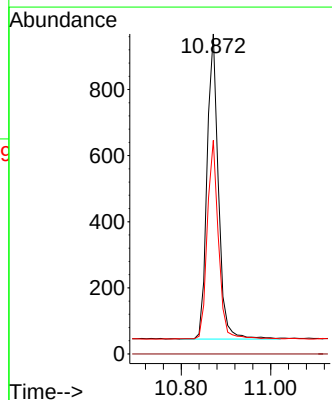
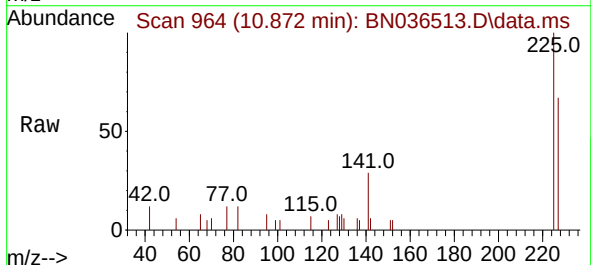
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

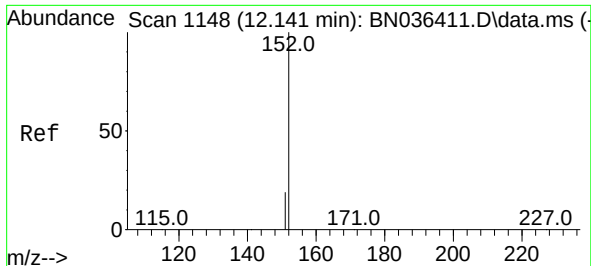
Tgt Ion:128 Resp: 6389
Ion Ratio Lower Upper
128 100
129 12.3 9.6 14.4
127 14.2 12.0 18.0



#10
Hexachlorobutadiene
Concen: 0.416 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:225 Resp: 1621
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.9 76.3





#11

2-Methylnaphthalene-d10

Concen: 0.483 ng

RT: 12.126 min Scan# 1145

Delta R.T. -0.015 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

Instrument :

BNA_N

ClientSampleId :

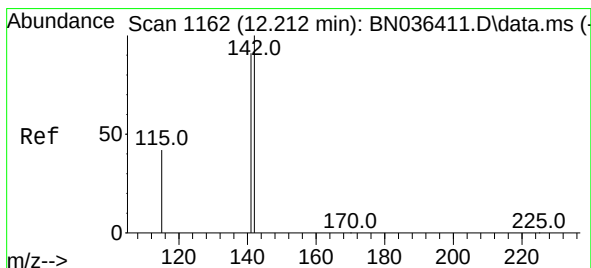
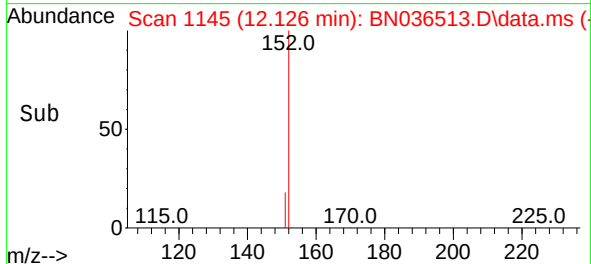
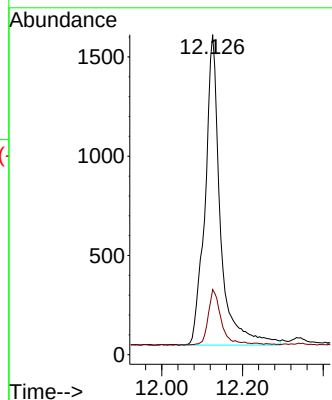
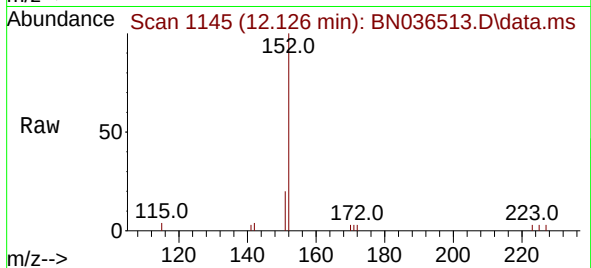
PB166876BSD

Tgt Ion:152 Resp: 4120

Ion Ratio Lower Upper

152 100

151 15.5 16.6 25.0#



#12

2-Methylnaphthalene

Concen: 0.370 ng

RT: 12.202 min Scan# 1160

Delta R.T. -0.010 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

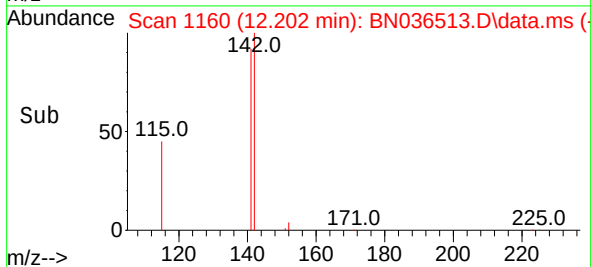
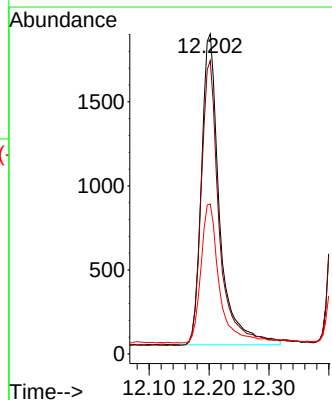
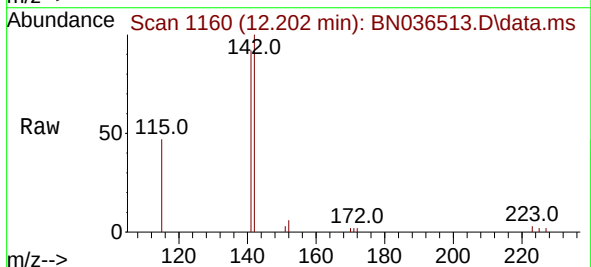
Tgt Ion:142 Resp: 3889

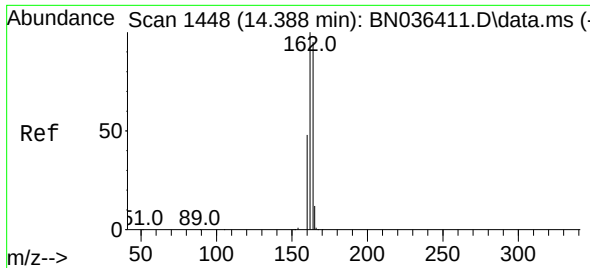
Ion Ratio Lower Upper

142 100

141 91.6 72.8 109.2

115 46.8 35.5 53.3

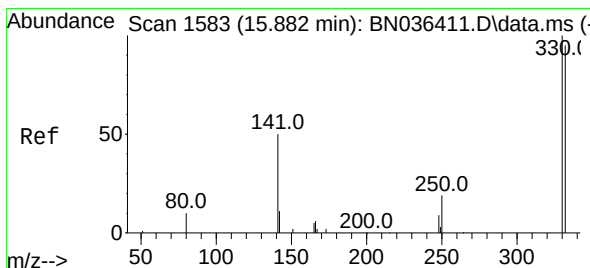
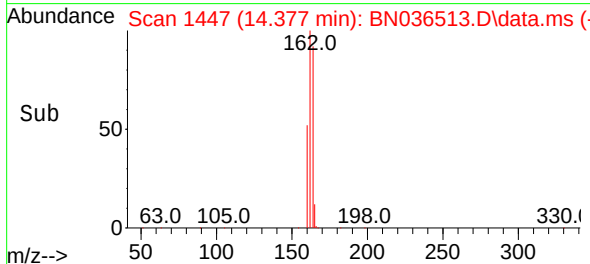
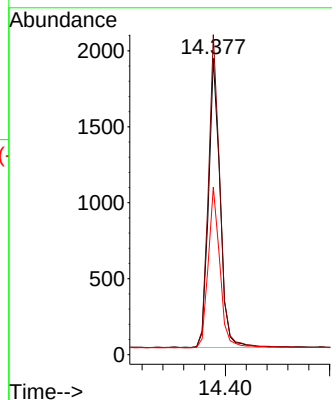
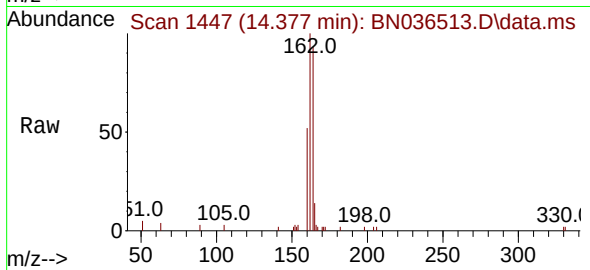




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.377 min Scan# 1447
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

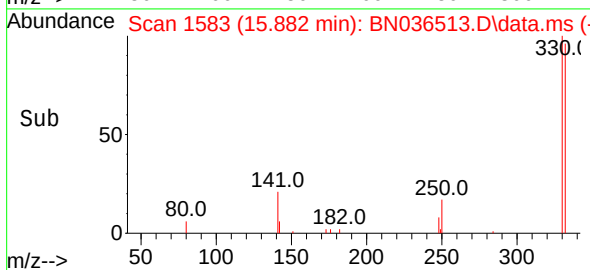
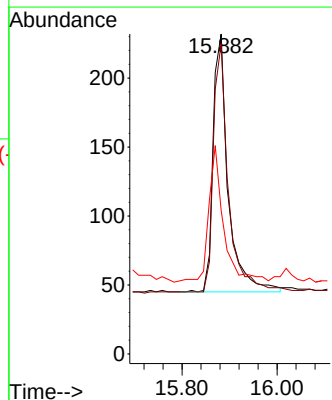
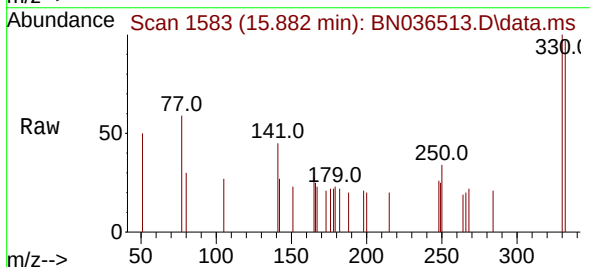
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

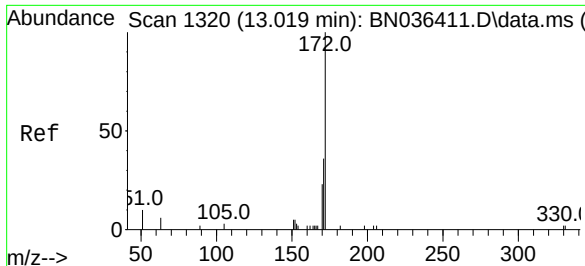
Tgt Ion:164 Resp: 2910
Ion Ratio Lower Upper
164 100
162 108.1 84.1 126.1
160 56.6 41.4 62.0



#14
2,4,6-Tribromophenol
Concen: 0.286 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:330 Resp: 413
Ion Ratio Lower Upper
330 100
332 95.6 76.6 114.8
141 51.8 37.8 56.8

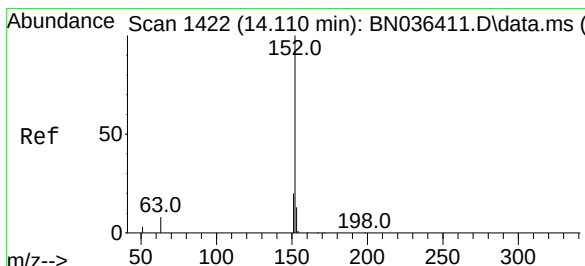
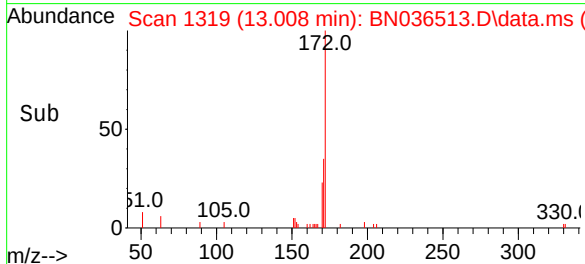
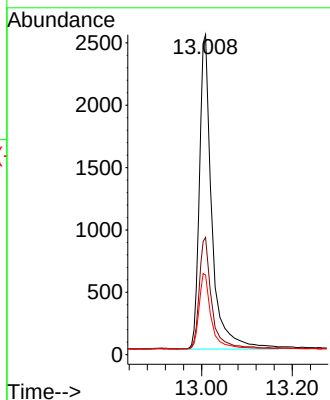
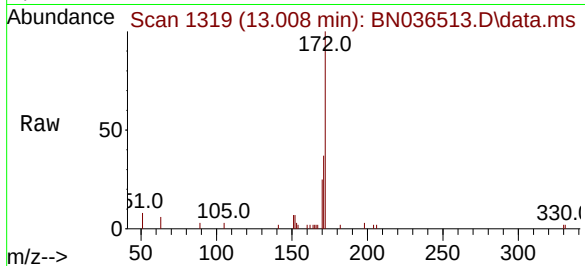




#15
2-Fluorobiphenyl
Concen: 0.508 ng
RT: 13.008 min Scan# 1420
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

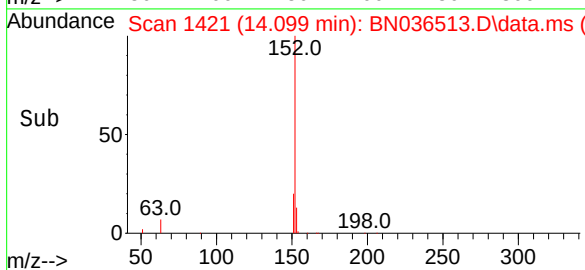
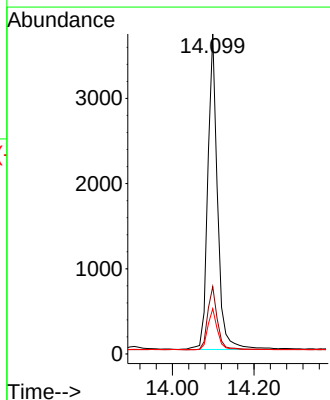
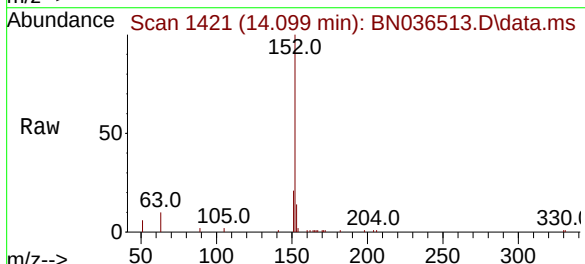
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

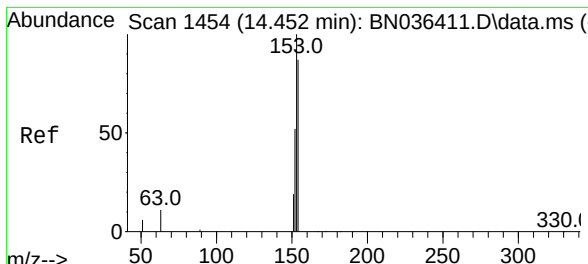
Tgt Ion:	172	Resp:	5561
Ion Ratio	Lower	Upper	
172	100		
171	36.7	29.6	44.4
170	24.9	19.8	29.6



#16
Acenaphthylene
Concen: 0.477 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:	152	Resp:	6135
Ion Ratio	Lower	Upper	
152	100		
151	20.3	15.8	23.8
153	13.0	10.2	15.2

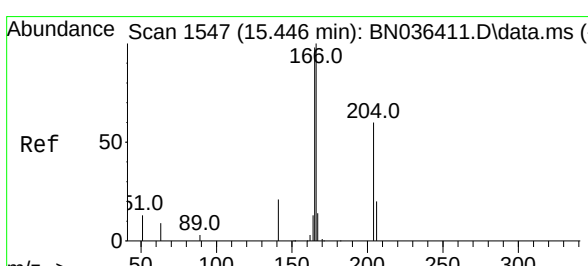
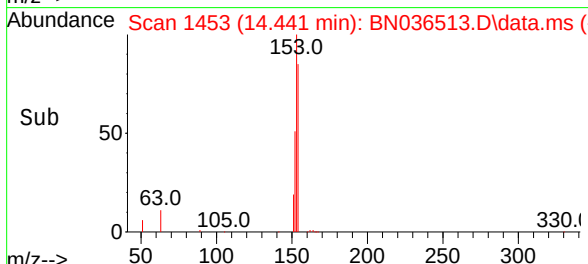
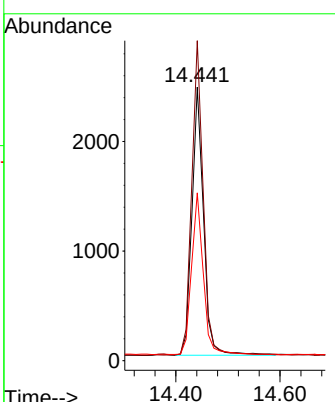
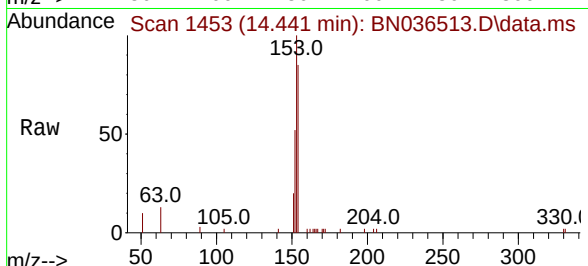




#17
 Acenaphthene
 Concen: 0.444 ng
 RT: 14.441 min Scan# 1453
 Delta R.T. -0.011 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

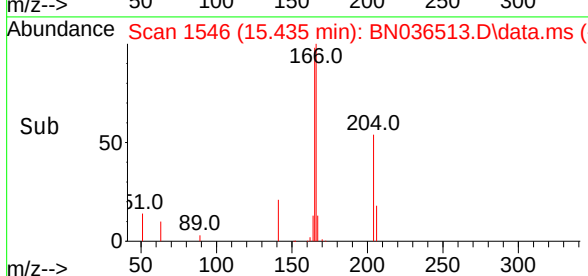
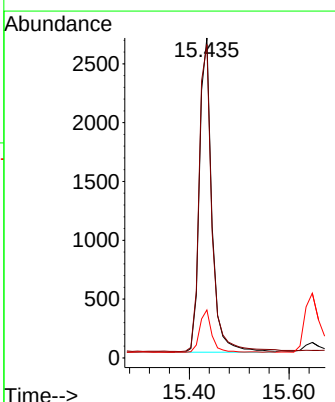
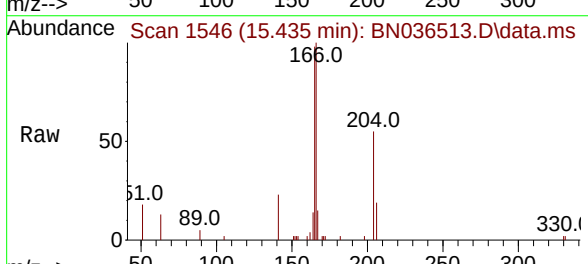
Instrument :
 BNA_N
 ClientSampleId :
 PB166876BSD

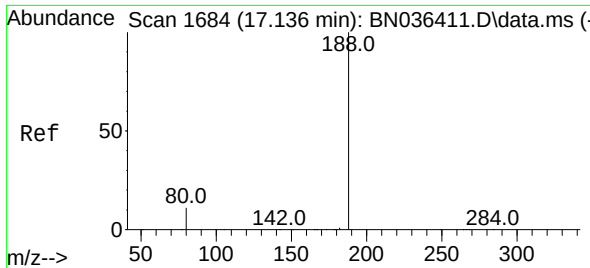
Tgt Ion:	154	Resp:	3815
Ion Ratio	Lower	Upper	
154	100		
153	115.6	93.3	139.9
152	61.0	48.8	73.2



#18
 Fluorene
 Concen: 0.395 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. -0.011 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

Tgt Ion:	166	Resp:	4829
Ion Ratio	Lower	Upper	
166	100		
165	101.4	79.5	119.3
167	12.7	10.4	15.6

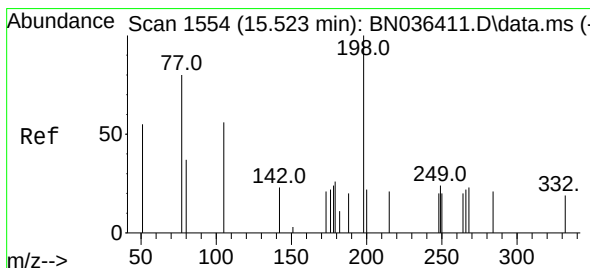
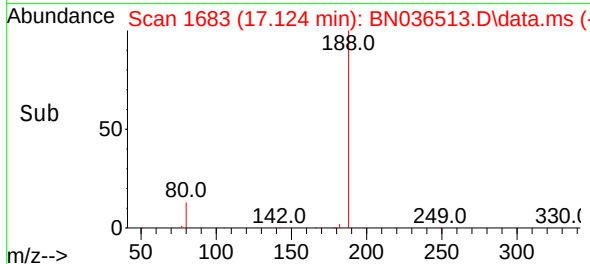
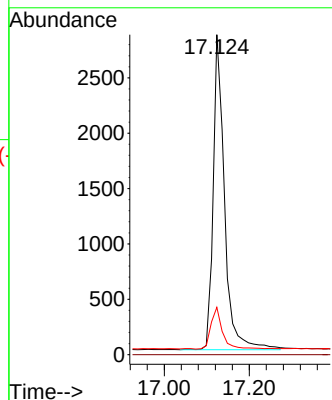
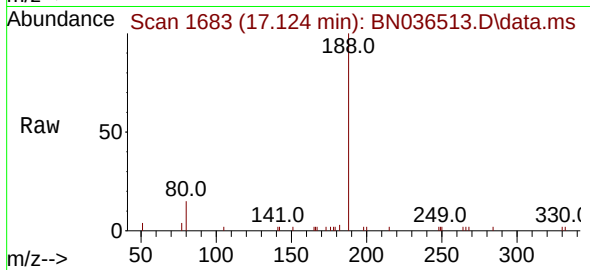




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

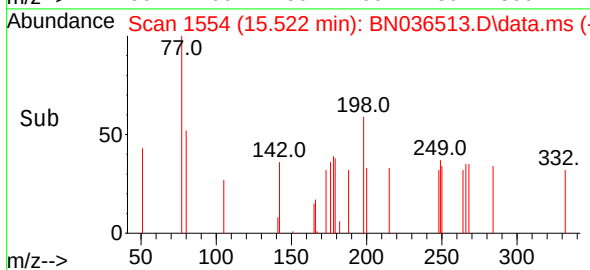
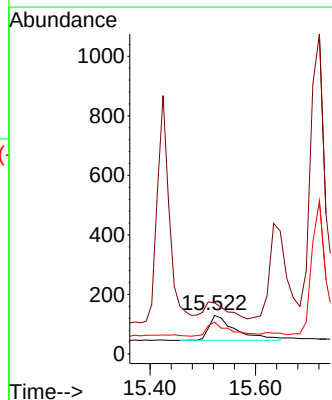
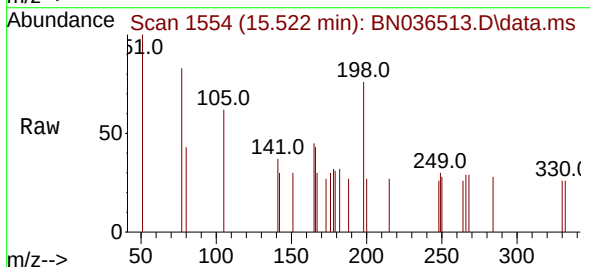
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

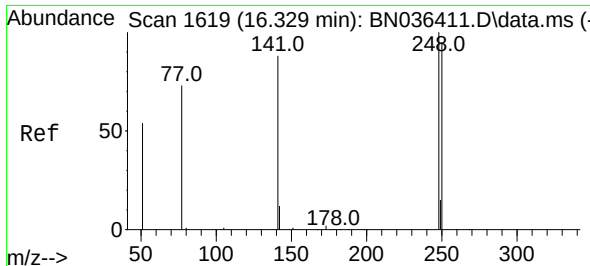
Tgt Ion:188 Resp: 5252
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.8 9.8 14.6#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.276 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.001 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:198 Resp: 284
Ion Ratio Lower Upper
198 100
51 132.3 86.6 129.8#
105 82.3 57.5 86.3

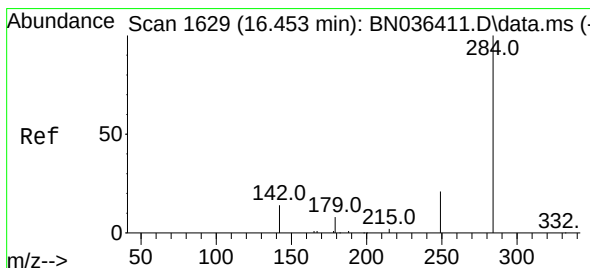
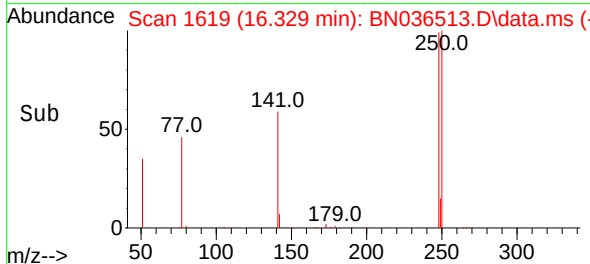
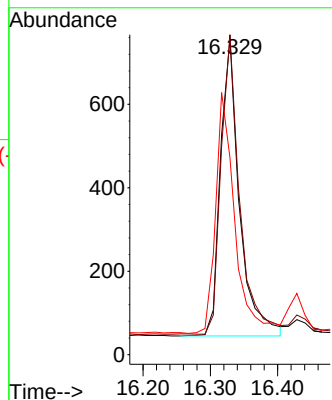
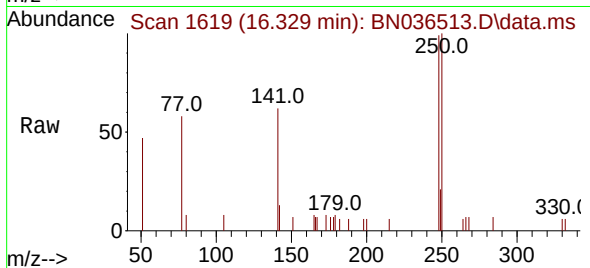




#21
4-Bromophenyl-phenylether
Concen: 0.447 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

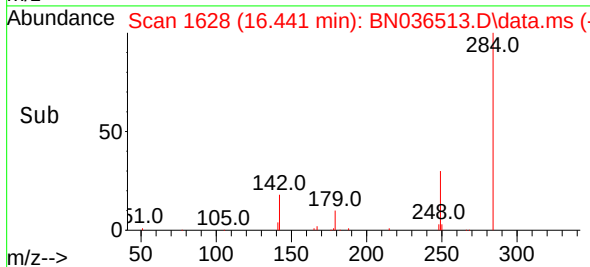
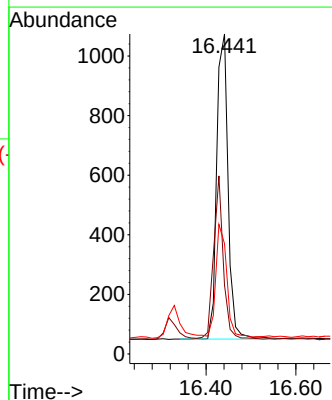
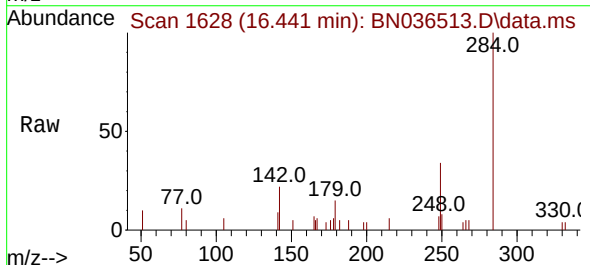
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

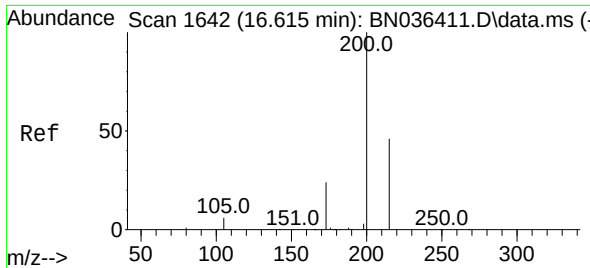
Tgt Ion:248 Resp: 1401
Ion Ratio Lower Upper
248 100
250 101.2 76.1 114.1
141 62.3 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.463 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:284 Resp: 1790
Ion Ratio Lower Upper
284 100
142 45.9 33.4 50.0
249 36.5 28.6 43.0

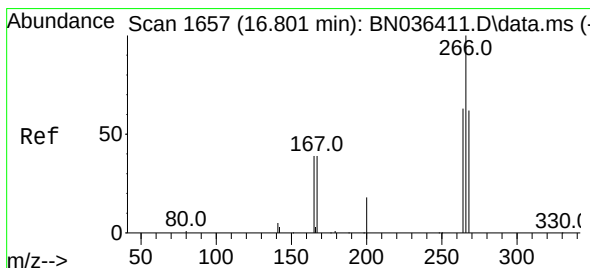
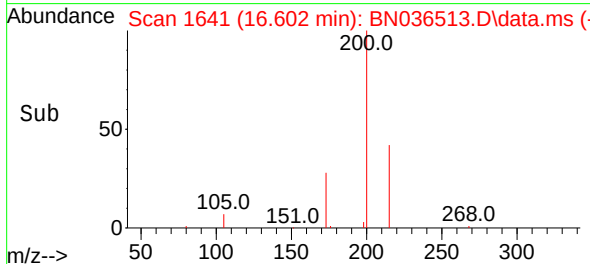
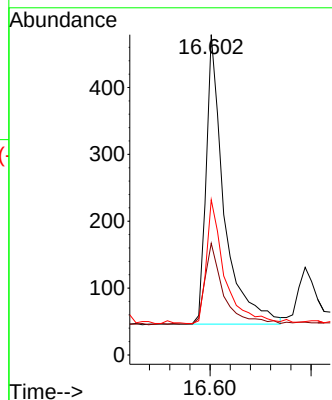
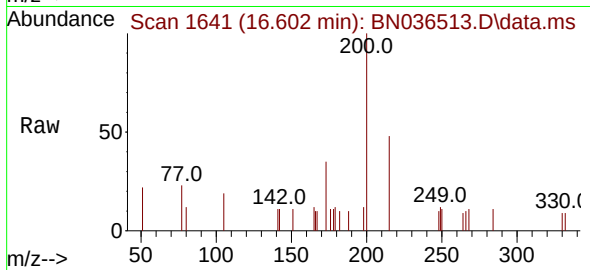




#23
Atrazine
Concen: 0.409 ng
RT: 16.602 min Scan# 1641
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

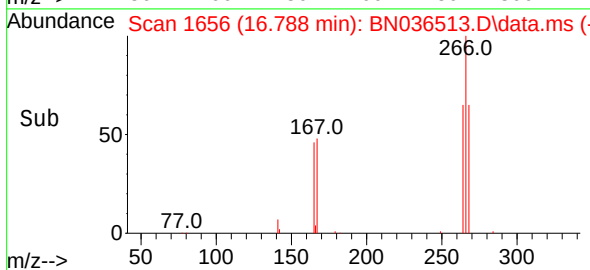
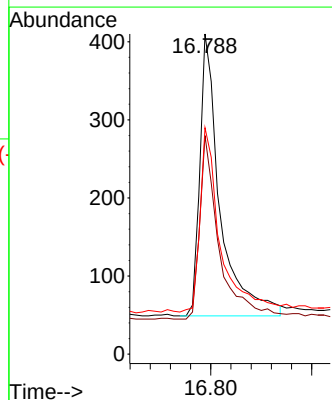
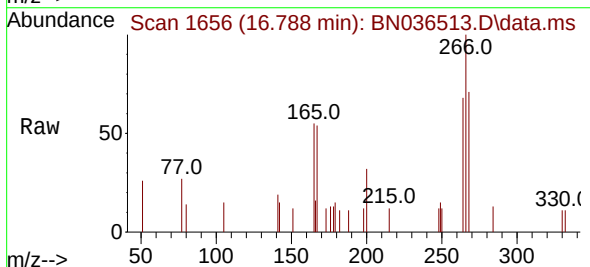
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

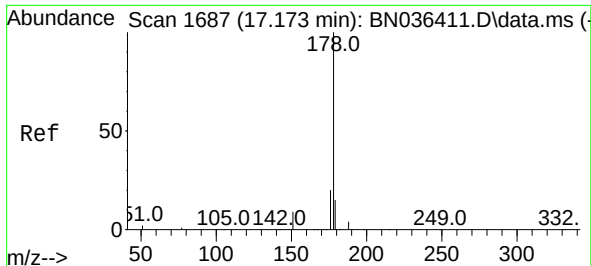
Tgt Ion:200 Resp: 1070
Ion Ratio Lower Upper
200 100
173 34.9 23.2 34.8#
215 48.4 40.0 60.0



#24
Pentachlorophenol
Concen: 0.547 ng
RT: 16.788 min Scan# 1656
Delta R.T. -0.013 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:266 Resp: 1005
Ion Ratio Lower Upper
266 100
264 62.9 50.6 76.0
268 65.5 51.9 77.9

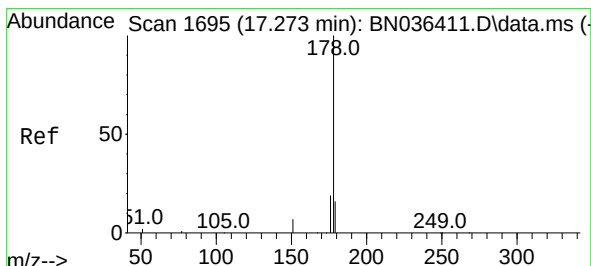
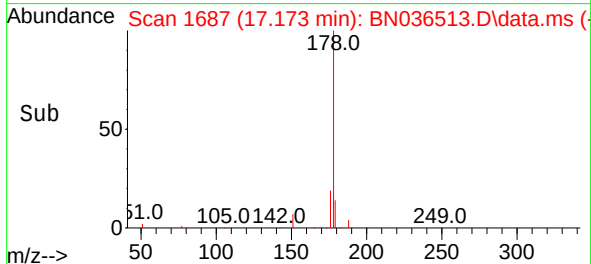
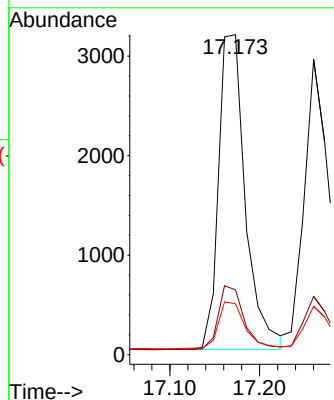
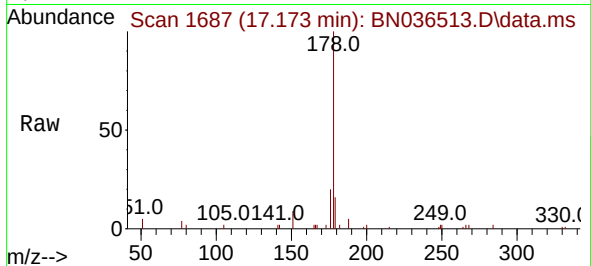




#25
 Phenanthrene
 Concen: 0.434 ng
 RT: 17.173 min Scan# 1687
 Delta R.T. -0.000 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

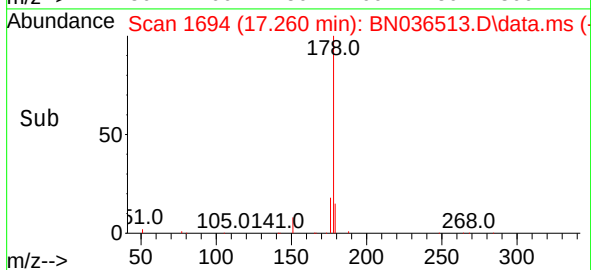
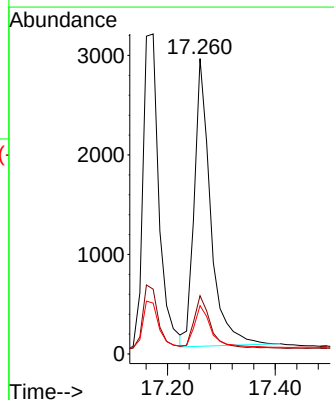
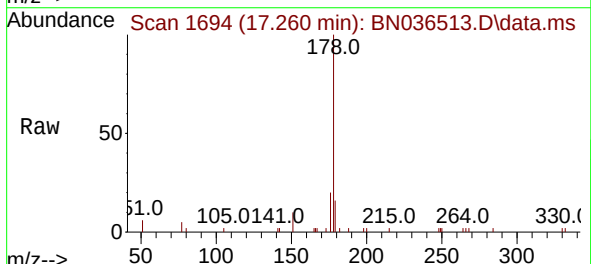
Instrument :
 BNA_N
 ClientSampleId :
 PB166876BSD

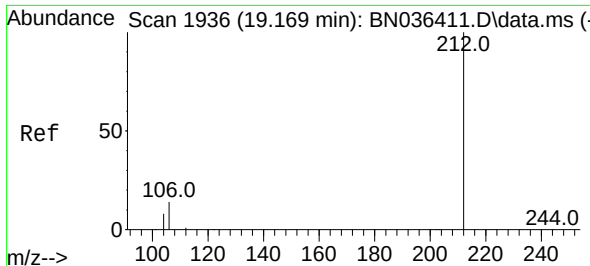
Tgt Ion:	178	Resp:	6582
Ion Ratio	Lower	Upper	
178	100		
176	19.8	15.7	23.5
179	15.2	12.4	18.6



#26
 Anthracene
 Concen: 0.454 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.013 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

Tgt Ion:	178	Resp:	6077
Ion Ratio	Lower	Upper	
178	100		
176	18.8	14.9	22.3
179	15.3	12.4	18.6

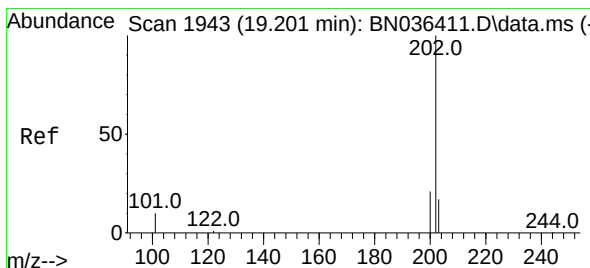
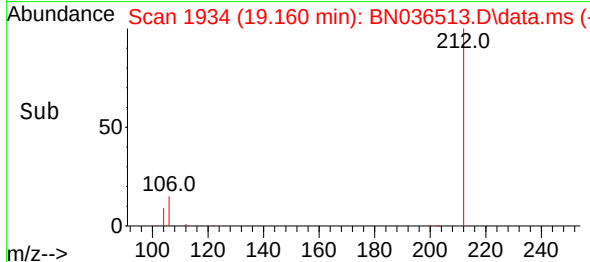
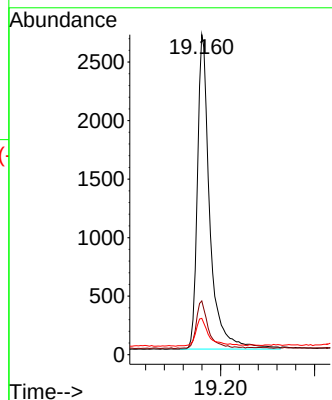
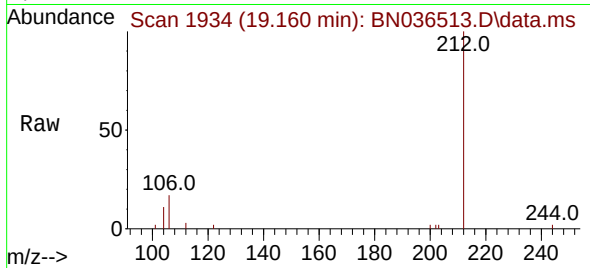




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 19.160 min Scan# 1936
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

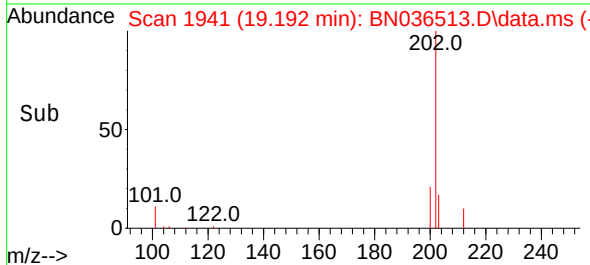
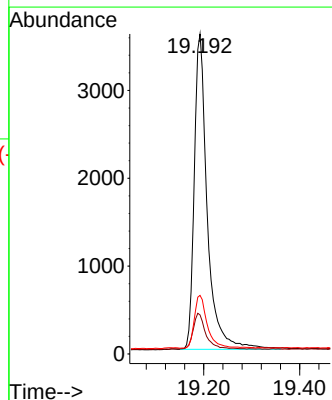
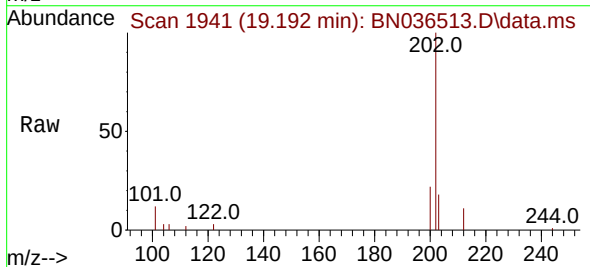
Instrument :
BNA_N
ClientSampleId :
PB166876BSD

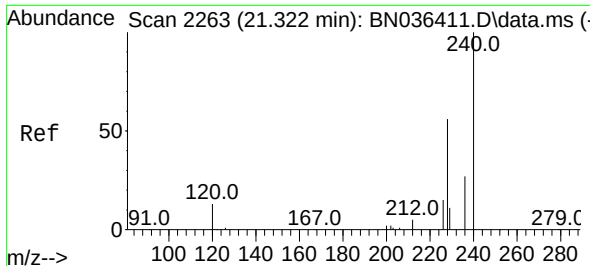
Tgt Ion:212 Resp: 4937
Ion Ratio Lower Upper
212 100
106 14.5 11.5 17.3
104 9.8 7.1 10.7



#28
Fluoranthene
Concen: 0.364 ng
RT: 19.192 min Scan# 1941
Delta R.T. -0.009 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:202 Resp: 6786
Ion Ratio Lower Upper
202 100
101 11.2 9.2 13.8
203 17.0 13.4 20.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.313 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

Instrument :

BNA_N

ClientSampleId :

PB166876BSD

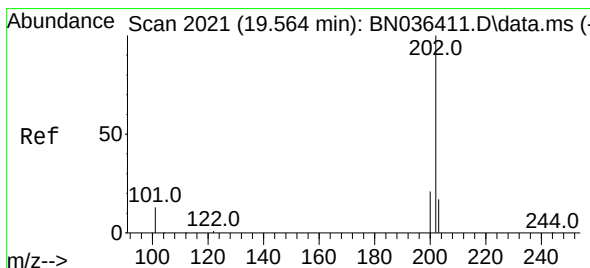
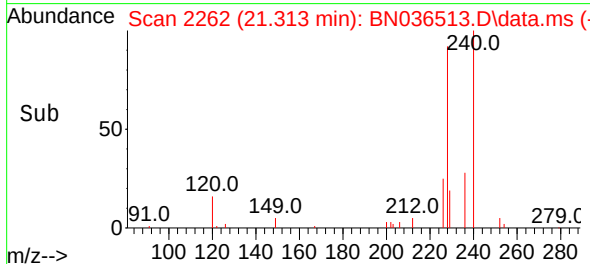
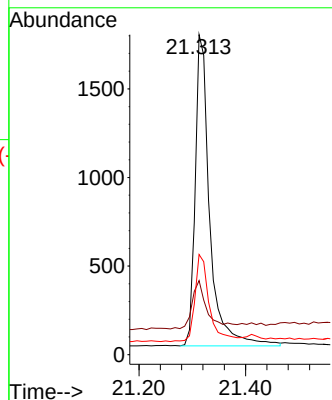
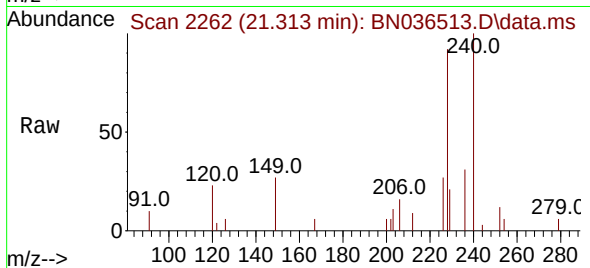
Tgt Ion:240 Resp: 3329

Ion Ratio Lower Upper

240 100

120 23.1 13.3 19.9#

236 31.3 23.0 34.6



#30

Pyrene

Concen: 0.539 ng

RT: 19.554 min Scan# 2019

Delta R.T. -0.009 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

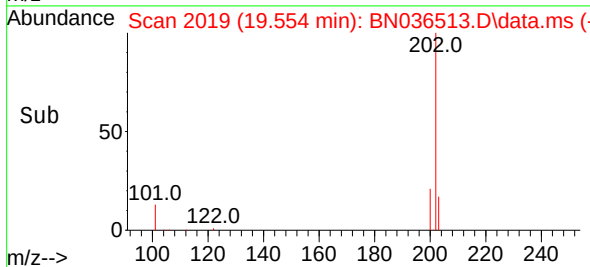
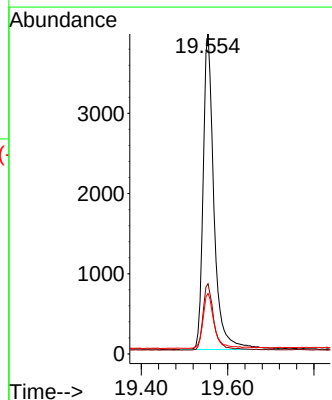
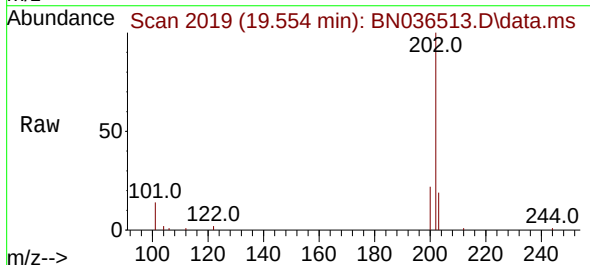
Tgt Ion:202 Resp: 6905

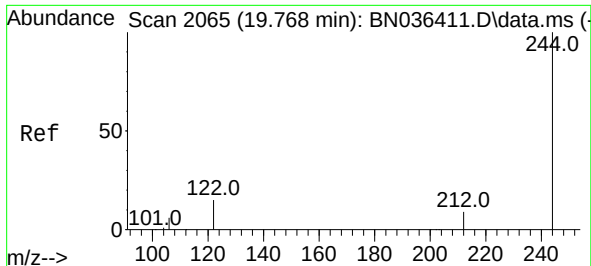
Ion Ratio Lower Upper

202 100

200 20.5 16.9 25.3

203 17.6 13.9 20.9

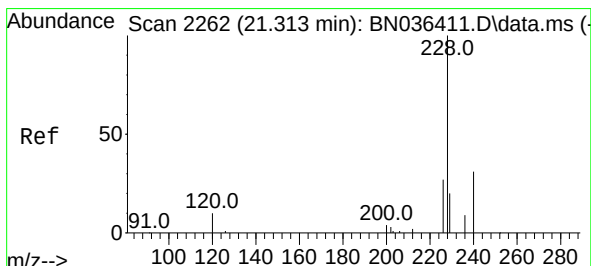
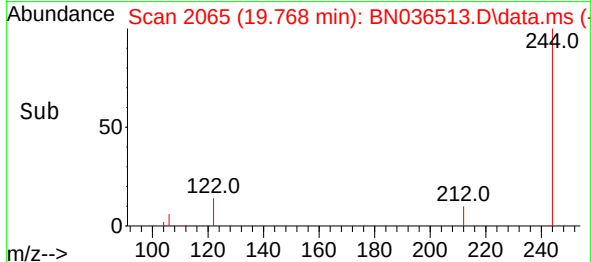
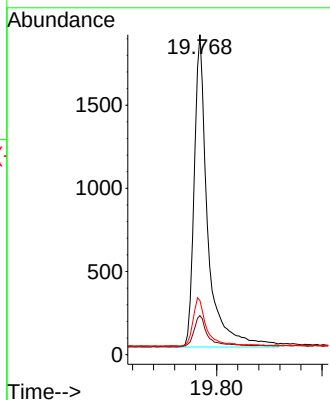
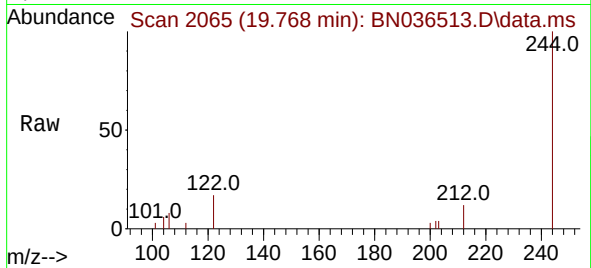




#31
 Terphenyl-d14
 Concen: 0.473 ng
 RT: 19.768 min Scan# 2065
 Delta R.T. -0.000 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

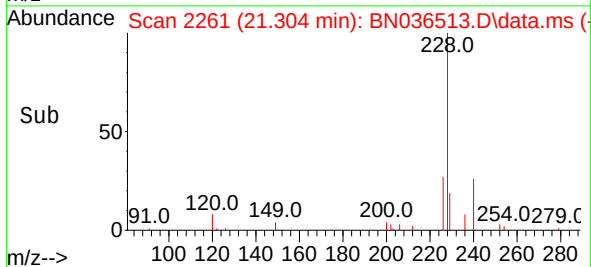
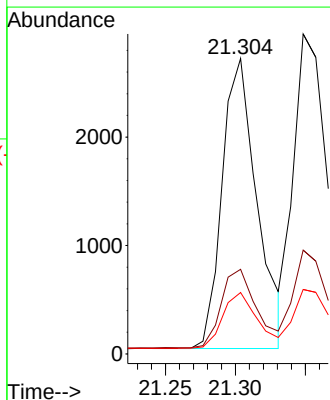
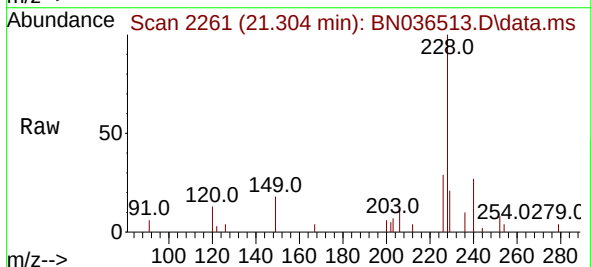
Instrument :
 BNA_N
 ClientSampleId :
 PB166876BSD

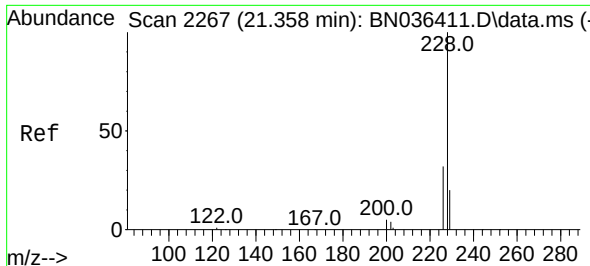
Tgt Ion:244 Resp: 3361
 Ion Ratio Lower Upper
 244 100
 212 12.2 8.1 12.1#
 122 16.9 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.424 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036513.D
 Acq: 26 Feb 2025 16:44

Tgt Ion:228 Resp: 4649
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.2 33.2
 229 20.8 16.5 24.7





#33

Chrysene

Concen: 0.468 ng

RT: 21.348 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

Instrument :

BNA_N

ClientSampleId :

PB166876BSD

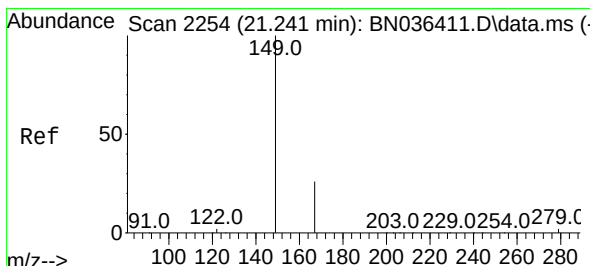
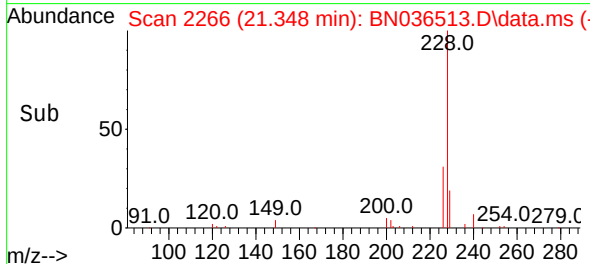
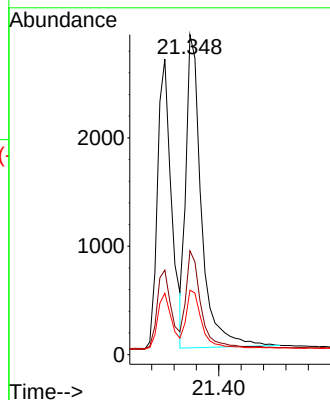
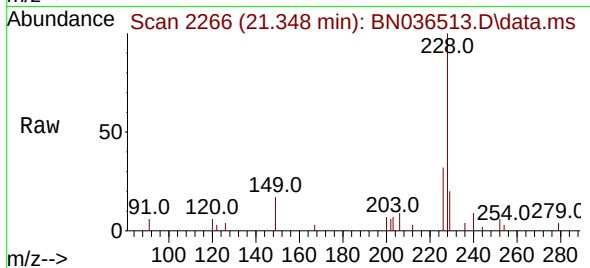
Tgt Ion:228 Resp: 5551

Ion Ratio Lower Upper

228 100

226 32.5 25.5 38.3

229 20.2 16.4 24.6



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.449 ng

RT: 21.232 min Scan# 2253

Delta R.T. -0.009 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

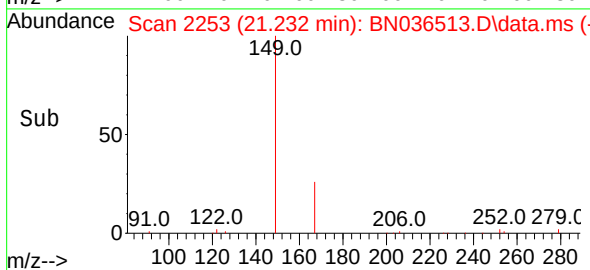
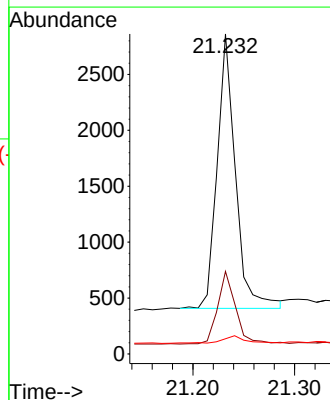
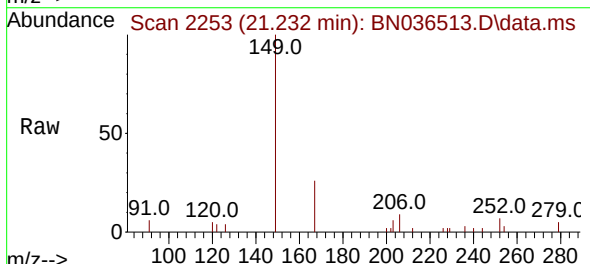
Tgt Ion:149 Resp: 3065

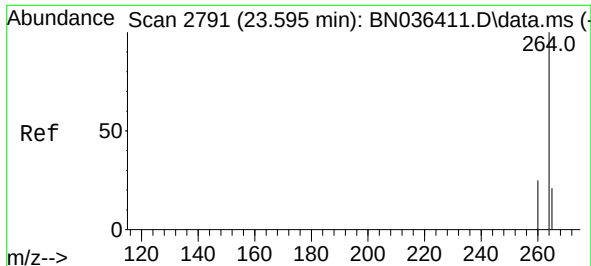
Ion Ratio Lower Upper

149 100

167 26.4 21.2 31.8

279 3.3 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.583 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036513.D

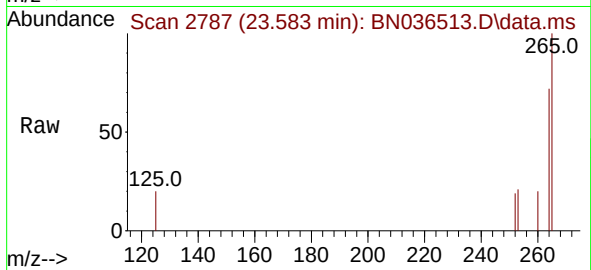
Acq: 26 Feb 2025 16:44

Instrument :

BNA_N

ClientSampleId :

PB166876BSD



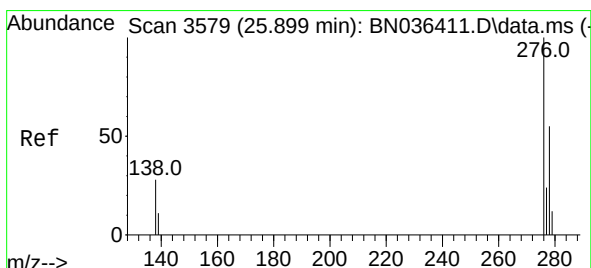
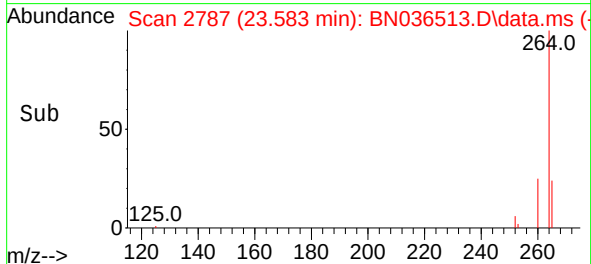
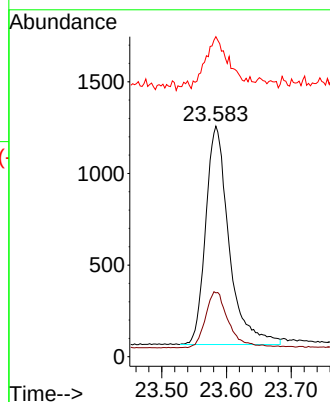
Tgt Ion:264 Resp: 2986

Ion Ratio Lower Upper

264 100

260 27.7 20.9 31.3

265 138.8 60.7 91.1#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.508 ng

RT: 25.881 min Scan# 3573

Delta R.T. -0.018 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

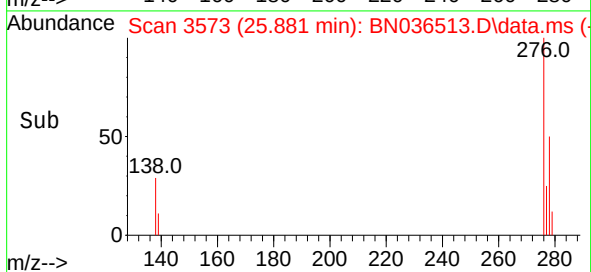
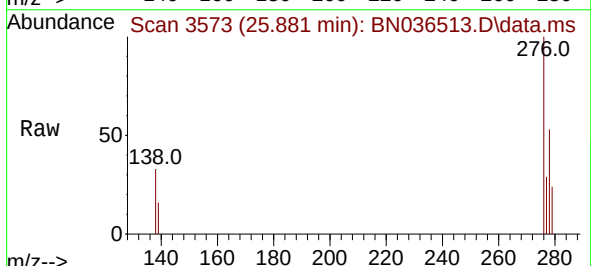
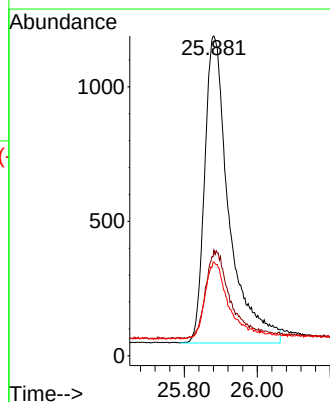
Tgt Ion:276 Resp: 5305

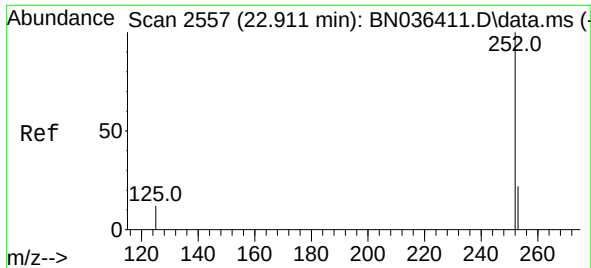
Ion Ratio Lower Upper

276 100

138 27.4 22.2 33.2

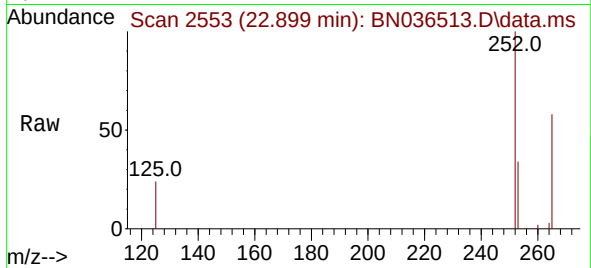
277 23.2 19.8 29.6



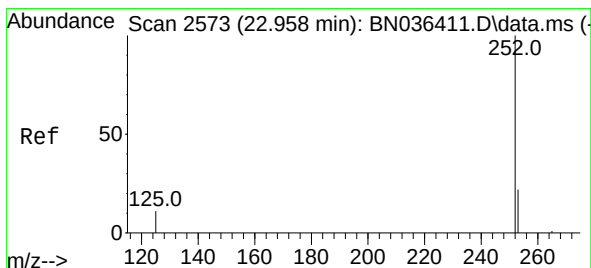
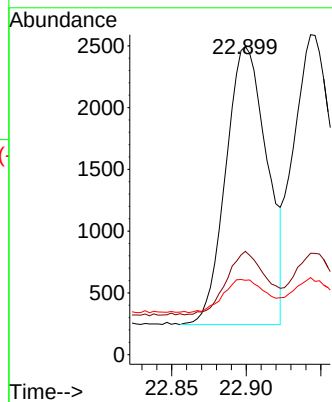


#37
Benzo(b)fluoranthene
Concen: 0.441 ng
RT: 22.899 min Scan# 2553
Delta R.T. -0.012 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Instrument :
BNA_N
ClientSampleId :
PB166876BSD

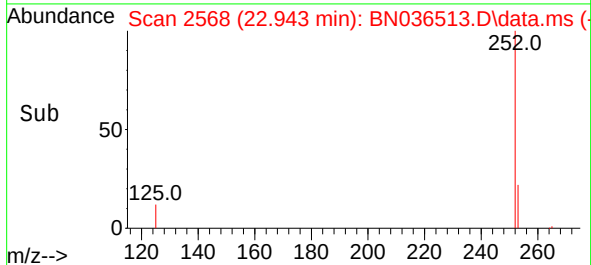
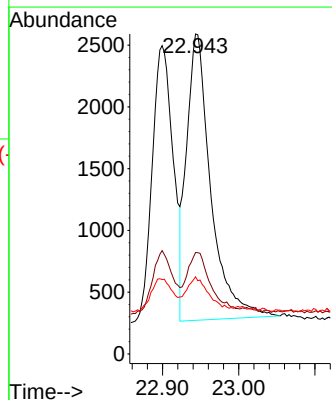
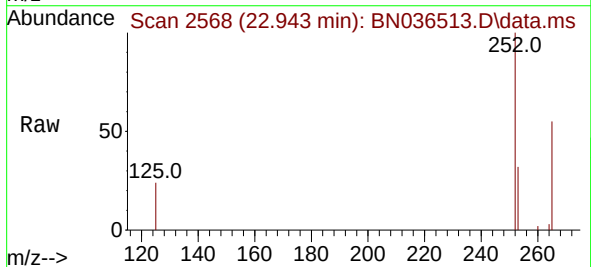


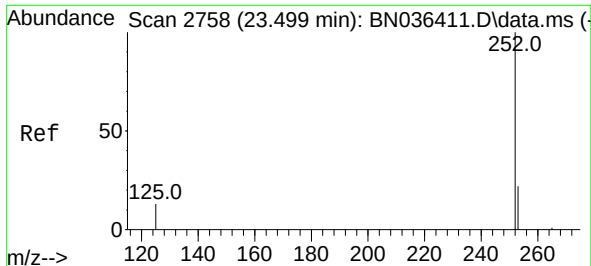
Tgt Ion:252 Resp: 4341
Ion Ratio Lower Upper
252 100
253 33.5 21.9 32.9#
125 24.1 15.0 22.6#



#38
Benzo(k)fluoranthene
Concen: 0.505 ng
RT: 22.943 min Scan# 2568
Delta R.T. -0.015 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Tgt Ion:252 Resp: 5111
Ion Ratio Lower Upper
252 100
253 31.7 22.2 33.4
125 24.1 15.0 22.4#





#39

Benzo(a)pyrene

Concen: 0.493 ng

RT: 23.484 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN036513.D

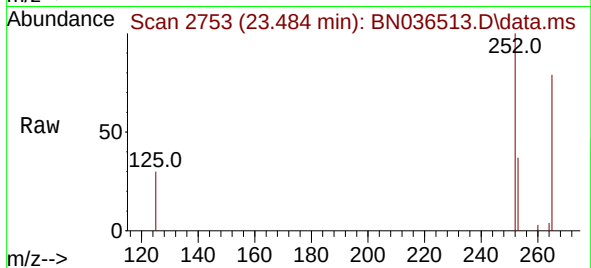
Acq: 26 Feb 2025 16:44

Instrument :

BNA_N

ClientSampleId :

PB166876BSD



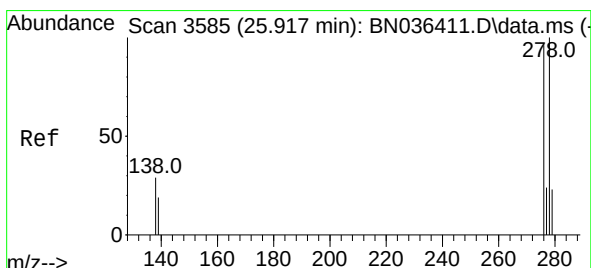
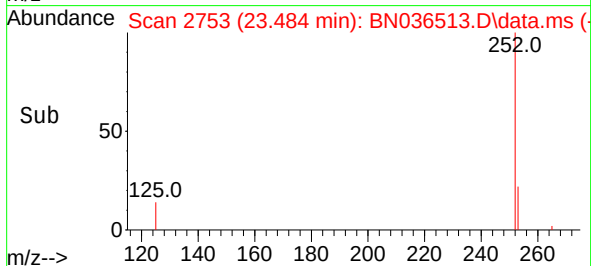
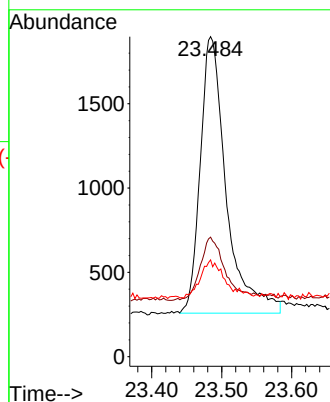
Tgt Ion:252 Resp: 4229

Ion Ratio Lower Upper

252 100

253 37.4 24.4 36.6#

125 30.2 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.469 ng

RT: 25.902 min Scan# 3580

Delta R.T. -0.015 min

Lab File: BN036513.D

Acq: 26 Feb 2025 16:44

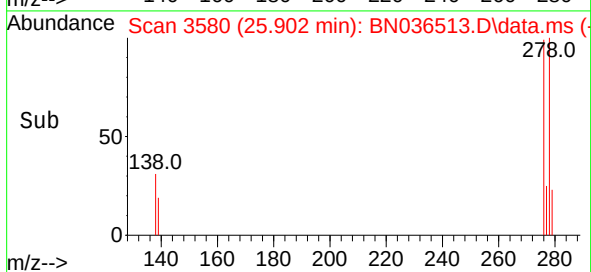
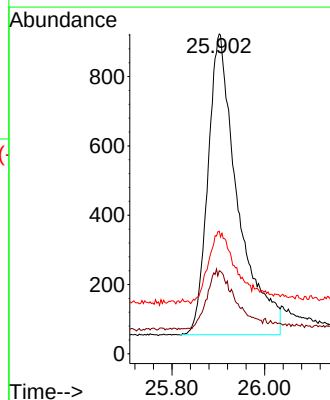
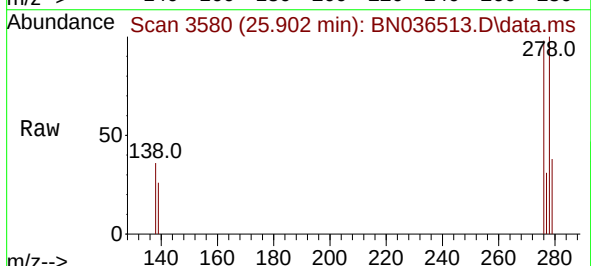
Tgt Ion:278 Resp: 3859

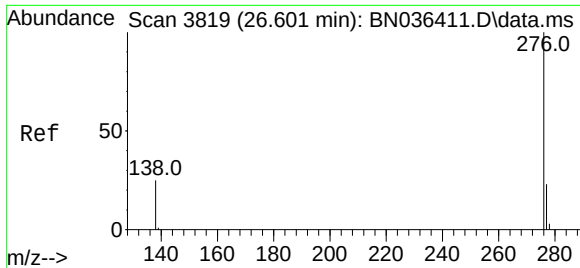
Ion Ratio Lower Upper

278 100

139 26.0 18.5 27.7

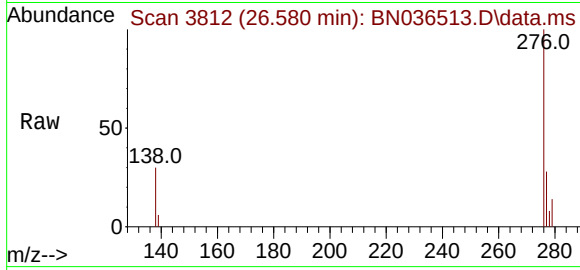
279 38.4 24.8 37.2#



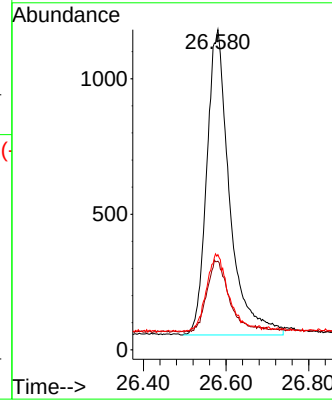
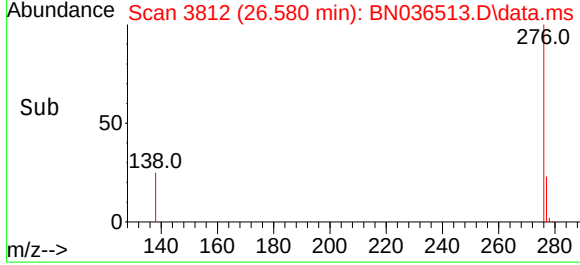


#41
Benzo(g,h,i)perylene
Concen: 0.463 ng
RT: 26.580 min Scan# 3812
Delta R.T. -0.021 min
Lab File: BN036513.D
Acq: 26 Feb 2025 16:44

Instrument :
BNA_N
ClientSampleId :
PB166876BSD



Tgt Ion:276 Resp: 4322
Ion Ratio Lower Upper
276 100
277 27.7 20.7 31.1
138 29.7 21.8 32.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN022625\
 Data File : BN036514.D
 Acq On : 26 Feb 2025 17:20
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Feb 26 17:47:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 11 01:17:14 2025
 Response via : Initial Calibration

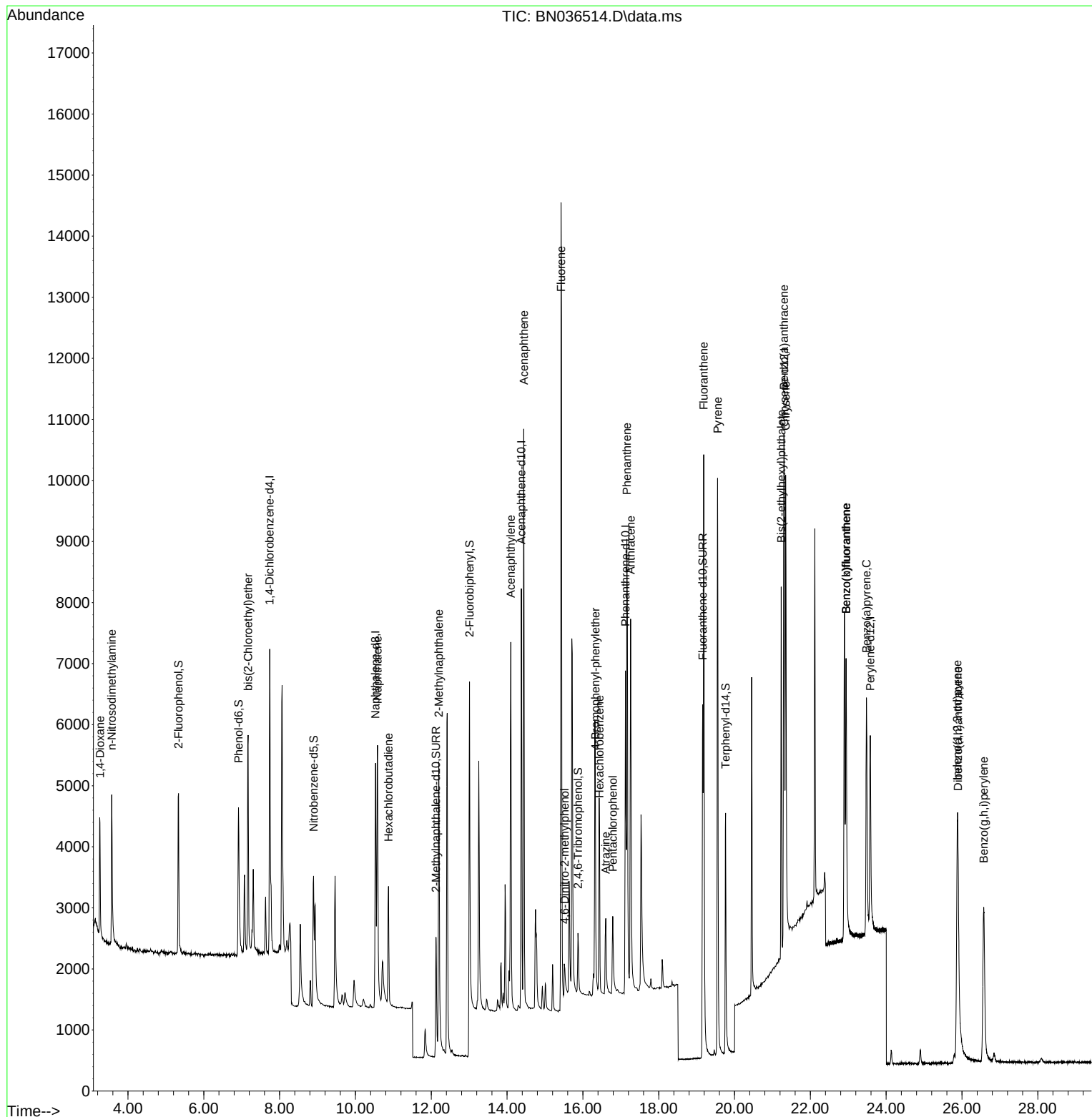
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.739	152	2419	0.400	ng	-0.01
7) Naphthalene-d8	10.530	136	5911	0.400	ng	-0.01
13) Acenaphthene-d10	14.377	164	4026	0.400	ng	-0.01
19) Phenanthrene-d10	17.124	188	7872	0.400	ng	-0.01
29) Chrysene-d12	21.313	240	5200	0.400	ng	0.00
35) Perylene-d12	23.581	264	4873	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2103	0.368	ng	-0.01
5) Phenol-d6	6.915	99	2393	0.357	ng	-0.02
8) Nitrobenzene-d5	8.896	82	2340	0.401	ng	-0.01
11) 2-Methylnaphthalene-d10	12.126	152	3493	0.384	ng	-0.02
14) 2,4,6-Tribromophenol	15.870	330	646	0.324	ng	-0.01
15) 2-Fluorobiphenyl	13.008	172	6709	0.443	ng	-0.01
27) Fluoranthene-d10	19.159	212	7665	0.350	ng	0.00
31) Terphenyl-d14	19.763	244	4873	0.439	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.261	88	1065	0.402	ng	# 93
3) n-Nitrosodimethylamine	3.571	42	1968	0.428	ng	# 92
6) bis(2-Chloroethyl)ether	7.168	93	2797	0.399	ng	98
9) Naphthalene	10.583	128	6691	0.392	ng	99
10) Hexachlorobutadiene	10.872	225	1663	0.401	ng	# 98
12) 2-Methylnaphthalene	12.197	142	4411	0.394	ng	98
16) Acenaphthylene	14.099	152	6958	0.391	ng	99
17) Acenaphthene	14.441	154	4551	0.383	ng	99
18) Fluorene	15.424	166	6233	0.369	ng	99
20) 4,6-Dinitro-2-methylph...	15.522	198	460	0.298	ng	89
21) 4-Bromophenyl-phenylether	16.329	248	1910	0.407	ng	# 77
22) Hexachlorobenzene	16.441	284	2423	0.418	ng	97
23) Atrazine	16.602	200	1468	0.374	ng	97
24) Pentachlorophenol	16.788	266	905	0.329	ng	99
25) Phenanthrene	17.161	178	8907	0.391	ng	100
26) Anthracene	17.260	178	7860	0.392	ng	99
28) Fluoranthene	19.187	202	9979	0.357	ng	99
30) Pyrene	19.554	202	10060	0.502	ng	100
32) Benzo(a)anthracene	21.304	228	6902	0.403	ng	100
33) Chrysene	21.348	228	7654	0.413	ng	99
34) Bis(2-ethylhexyl)phtha...	21.232	149	5377	0.504	ng	99
36) Indeno(1,2,3-cd)pyrene	25.876	276	6718	0.394	ng	99
37) Benzo(b)fluoranthene	22.943	252	7096	0.442	ng	97
38) Benzo(k)fluoranthene	22.943	252	7096	0.430	ng	97
39) Benzo(a)pyrene	23.481	252	5929	0.423	ng	# 84
40) Dibenzo(a,h)anthracene	25.893	278	5024	0.374	ng	96
41) Benzo(g,h,i)perylene	26.574	276	6064	0.398	ng	98

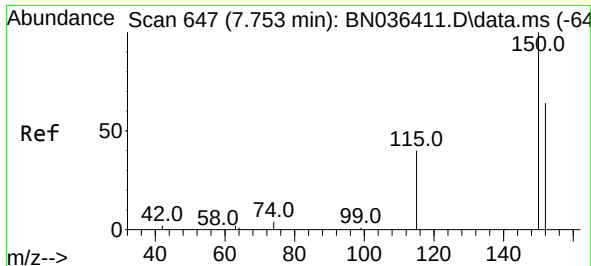
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036514.D
Acq On : 26 Feb 2025 17:20
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Feb 26 17:47:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN021025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Feb 11 01:17:14 2025
Response via : Initial Calibration

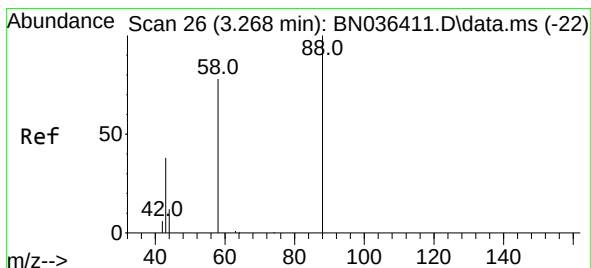
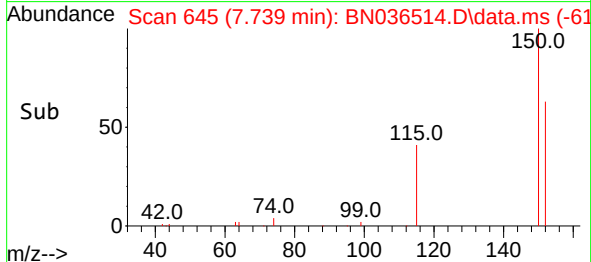
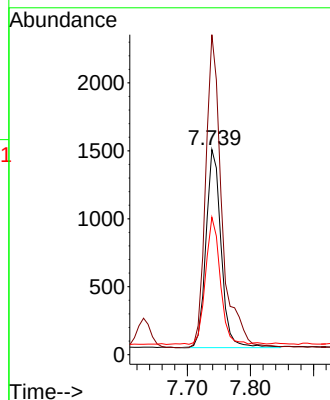
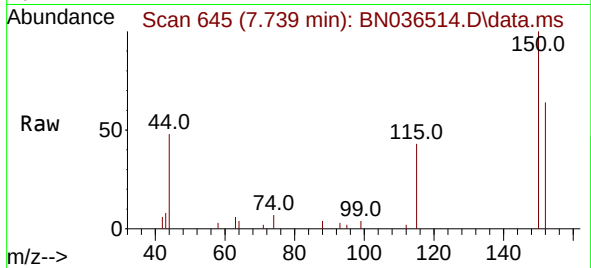




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.739 min Scan# 64
Delta R.T. -0.014 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

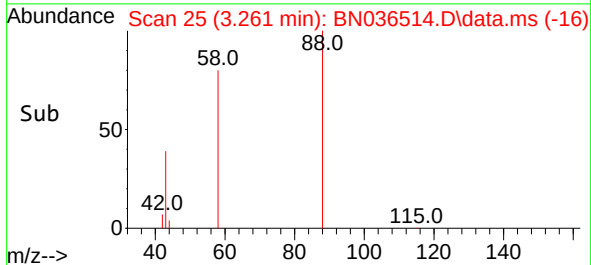
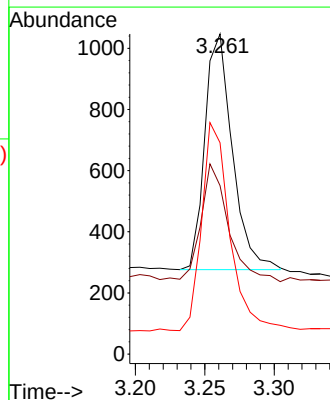
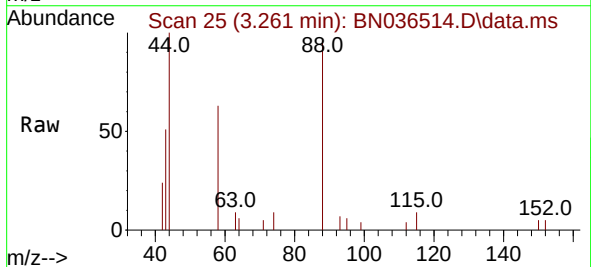
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

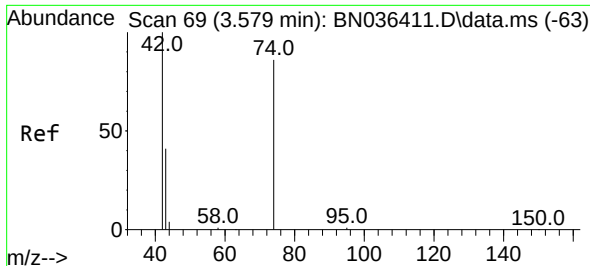
Tgt Ion: 152 Resp: 2419
Ion Ratio Lower Upper
152 100
150 156.1 123.7 185.5
115 67.0 52.5 78.7



#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.261 min Scan# 25
Delta R.T. -0.007 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion: 88 Resp: 1065
Ion Ratio Lower Upper
88 100
43 50.6 33.7 50.5#
58 90.1 68.9 103.3

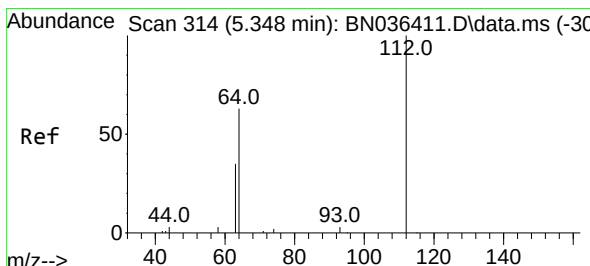
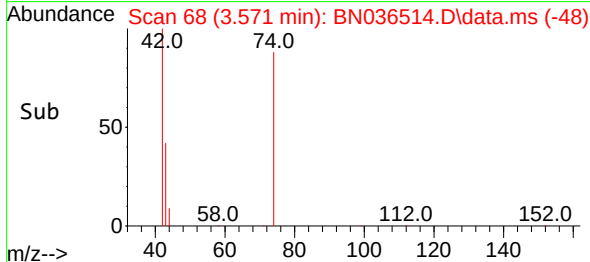
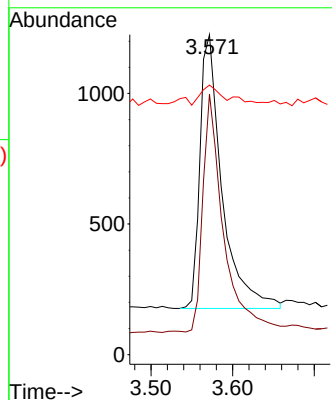
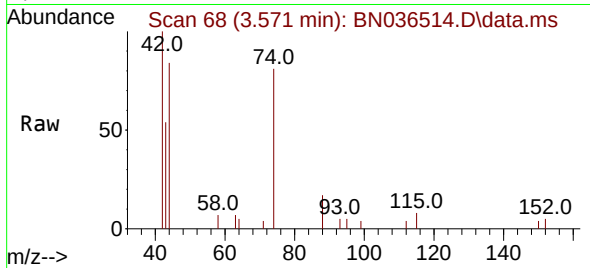




#3
n-Nitrosodimethylamine
Concen: 0.428 ng
RT: 3.571 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

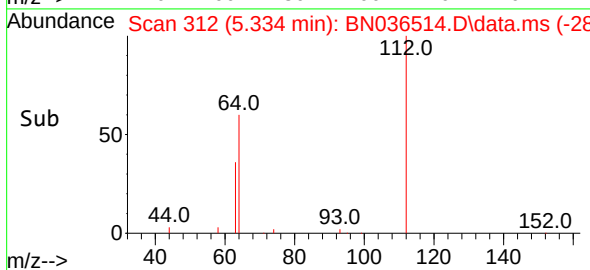
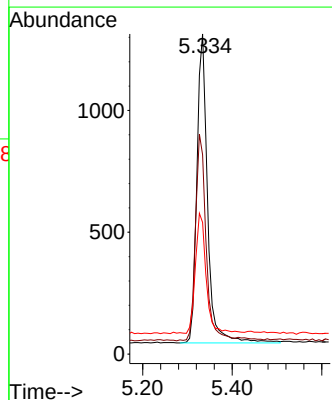
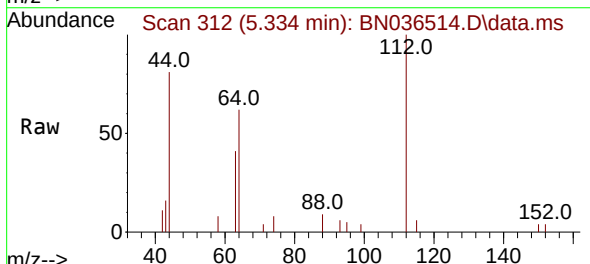
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

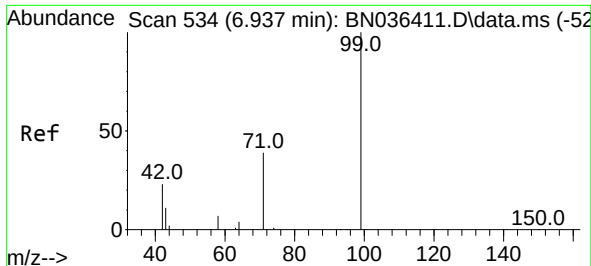
Tgt Ion: 42 Resp: 1968
Ion Ratio Lower Upper
42 100
74 82.8 71.8 107.6
44 6.1 7.8 11.6#



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion: 112 Resp: 2103
Ion Ratio Lower Upper
112 100
64 66.2 53.4 80.0
63 38.8 30.3 45.5

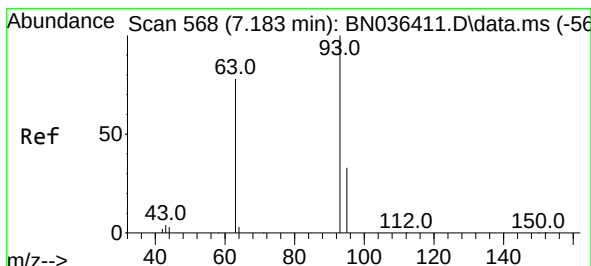
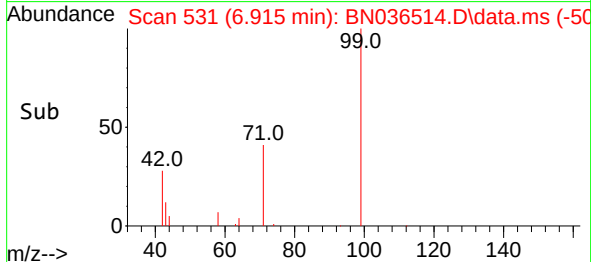
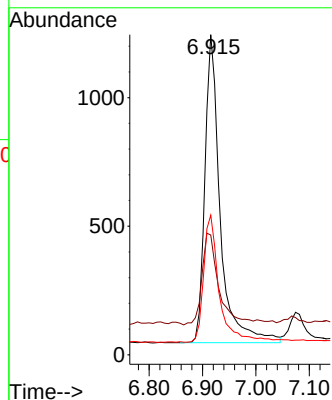
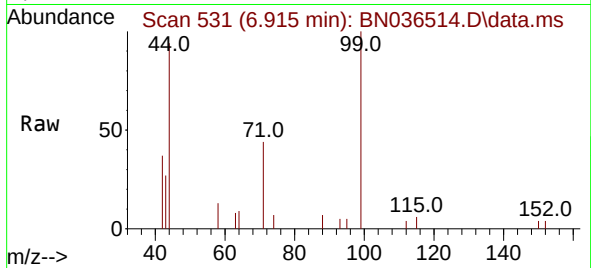




#5
Phenol-d6
Concen: 0.357 ng
RT: 6.915 min Scan# 51
Delta R.T. -0.022 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

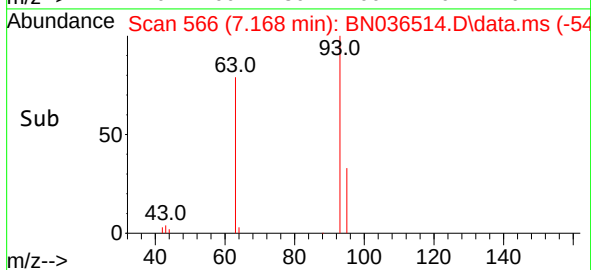
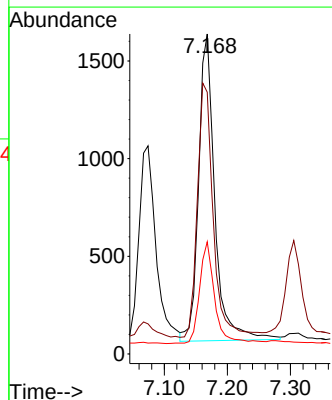
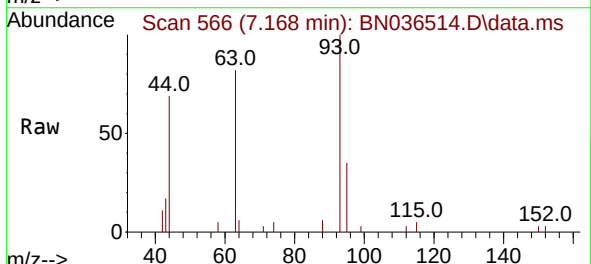
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

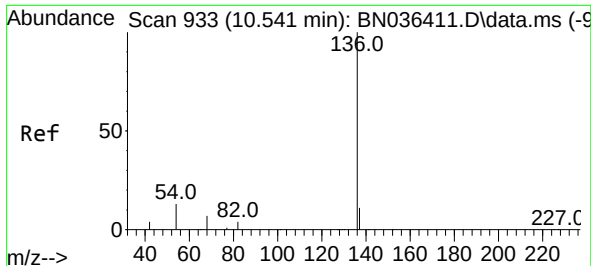
Tgt Ion: 99 Resp: 2393
Ion Ratio Lower Upper
99 100
42 32.6 21.7 32.5#
71 42.7 32.6 49.0



#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.168 min Scan# 566
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion: 93 Resp: 2797
Ion Ratio Lower Upper
93 100
63 81.7 66.3 99.5
95 31.4 26.2 39.4

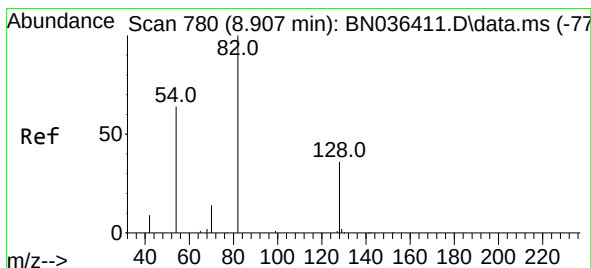
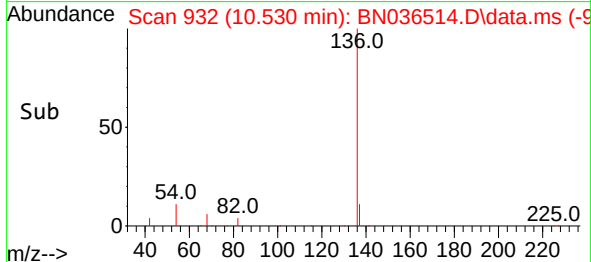
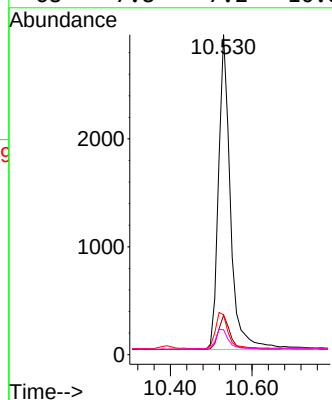
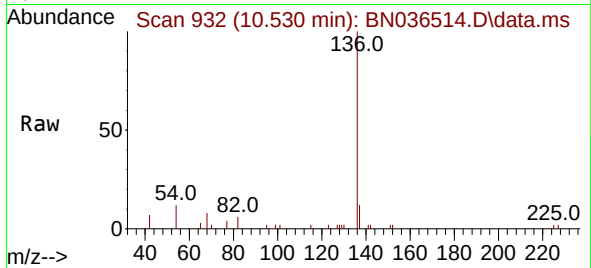




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

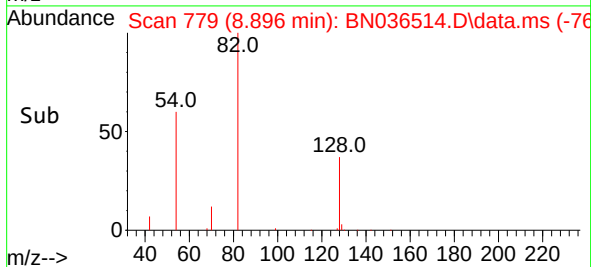
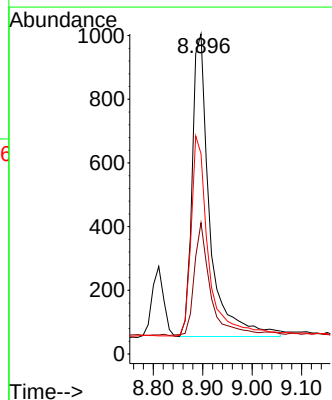
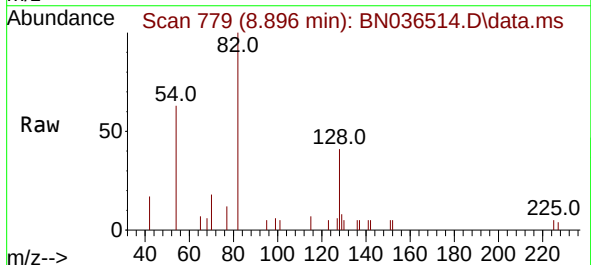
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

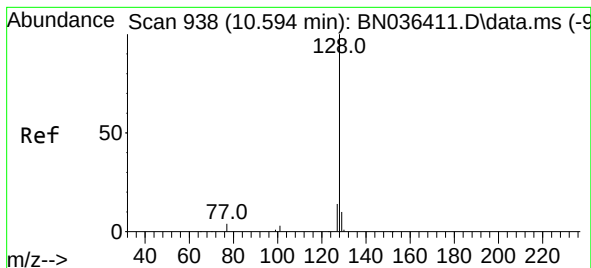
Tgt Ion:	136	Resp:	5911
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.1	15.1
54	12.5	11.8	17.6
68	7.8	7.2	10.8



#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.896 min Scan# 779
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:	82	Resp:	2340
Ion	Ratio	Lower	Upper
82	100		
128	41.0	31.9	47.9
54	62.6	53.1	79.7





#9

Naphthalene

Concen: 0.392 ng

RT: 10.583 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

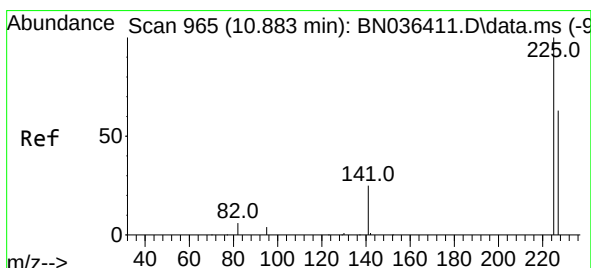
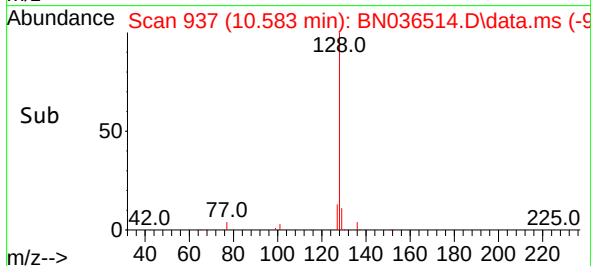
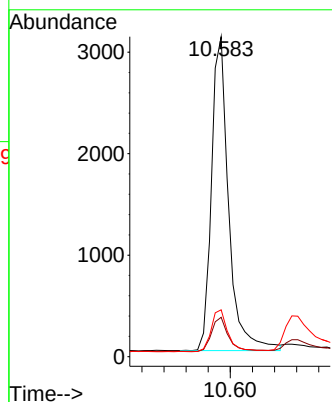
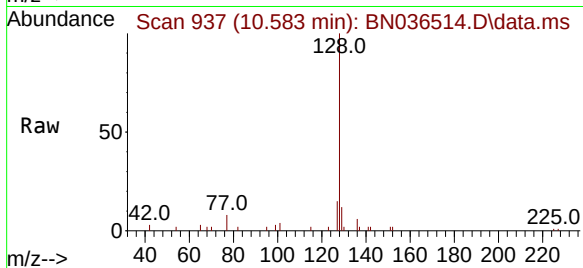
Tgt Ion:128 Resp: 6691

Ion Ratio Lower Upper

128 100

129 12.3 9.6 14.4

127 14.6 12.0 18.0



#10

Hexachlorobutadiene

Concen: 0.401 ng

RT: 10.872 min Scan# 964

Delta R.T. -0.011 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

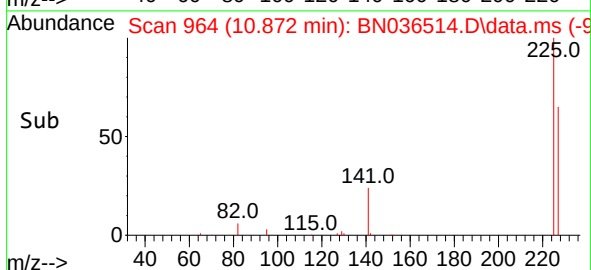
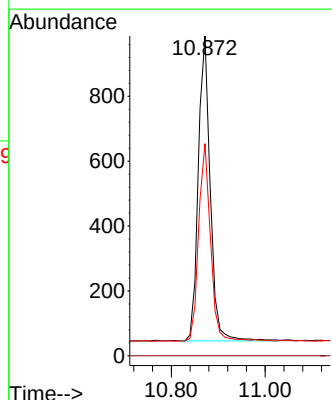
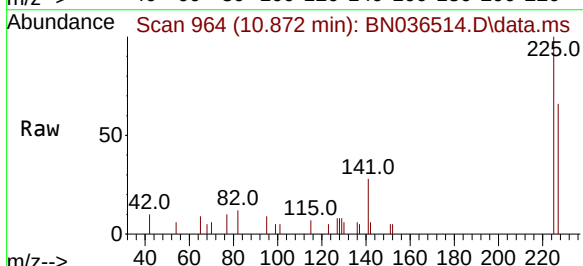
Tgt Ion:225 Resp: 1663

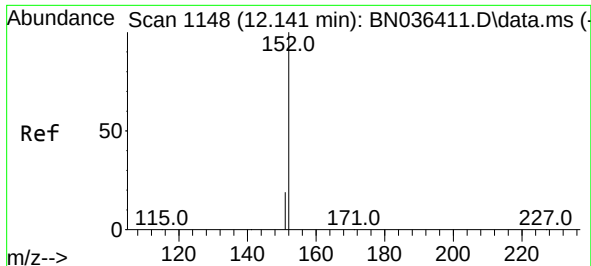
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.9 50.9 76.3

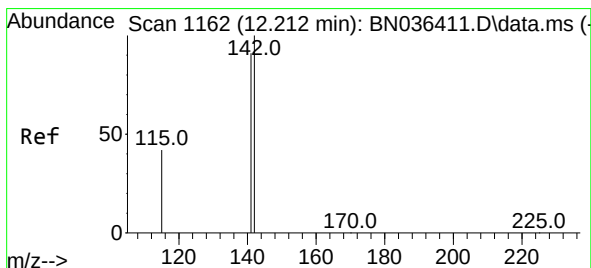
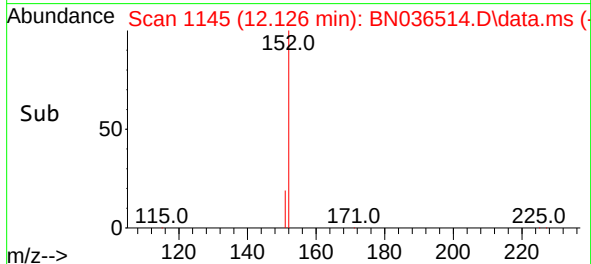
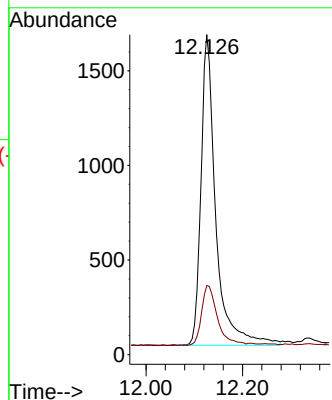
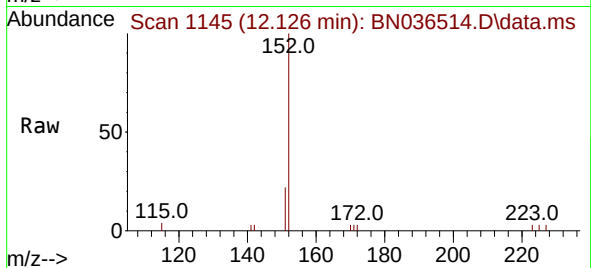




#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 12.126 min Scan# 1145
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

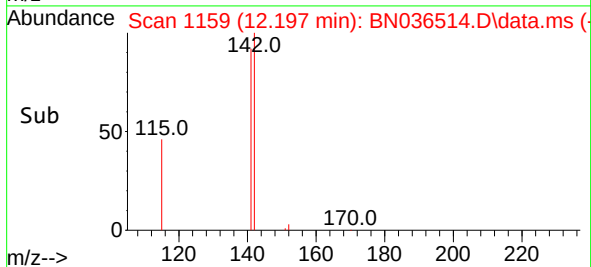
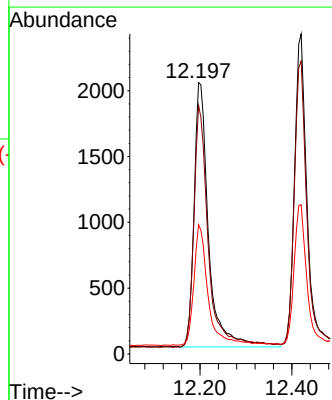
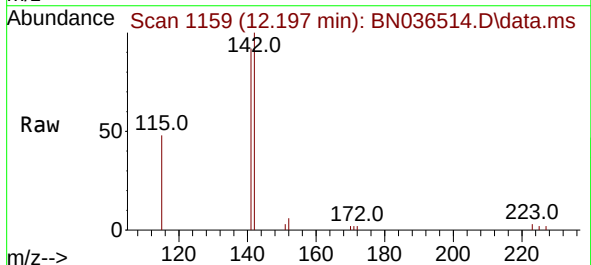
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

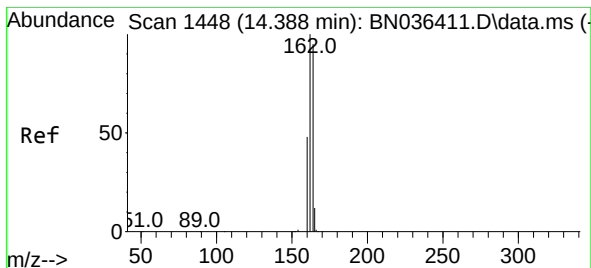
Tgt Ion:152 Resp: 3493
Ion Ratio Lower Upper
152 100
151 20.6 16.6 25.0



#12
2-Methylnaphthalene
Concen: 0.394 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:142 Resp: 4411
Ion Ratio Lower Upper
142 100
141 91.6 72.8 109.2
115 47.6 35.5 53.3





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.377 min Scan# 1447

Delta R.T. -0.011 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

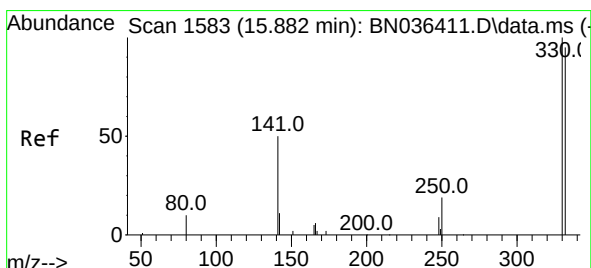
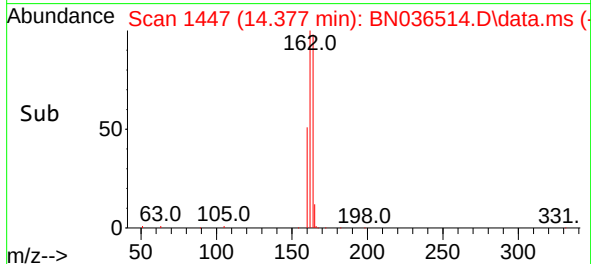
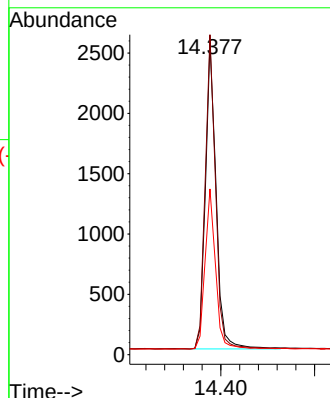
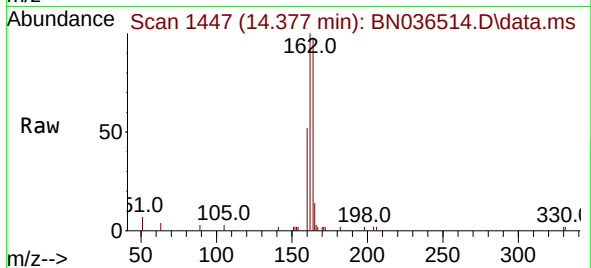
Tgt Ion:164 Resp: 4026

Ion Ratio Lower Upper

164 100

162 102.4 84.1 126.1

160 53.0 41.4 62.0



#14

2,4,6-Tribromophenol

Concen: 0.324 ng

RT: 15.870 min Scan# 1582

Delta R.T. -0.013 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

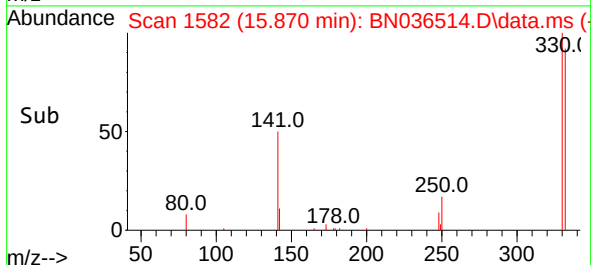
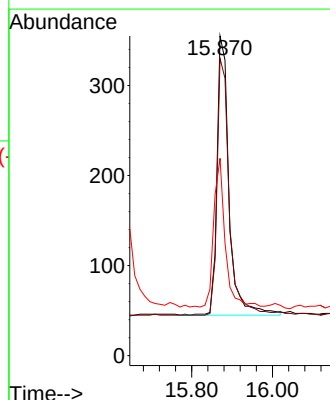
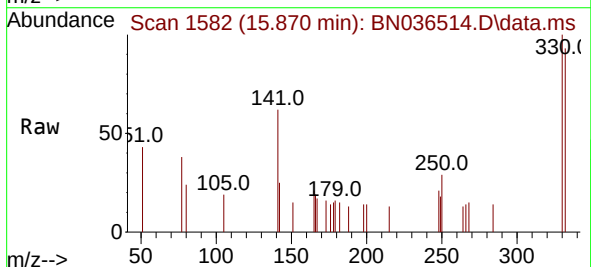
Tgt Ion:330 Resp: 646

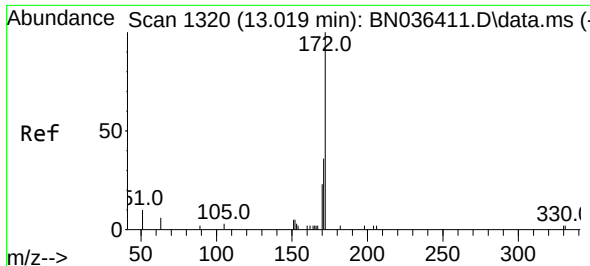
Ion Ratio Lower Upper

330 100

332 92.9 76.6 114.8

141 50.3 37.8 56.8

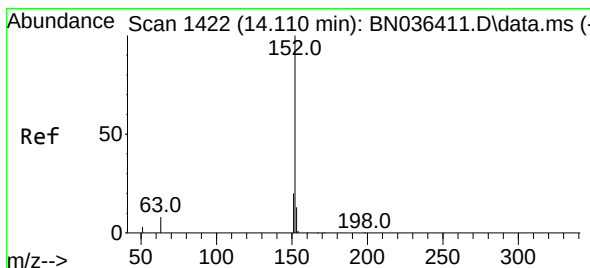
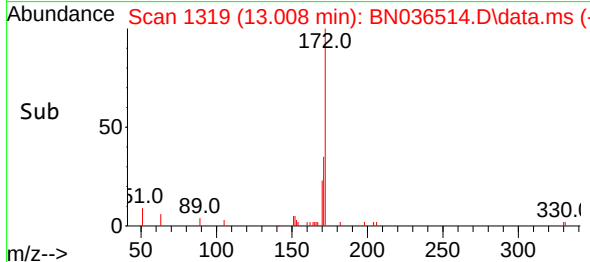
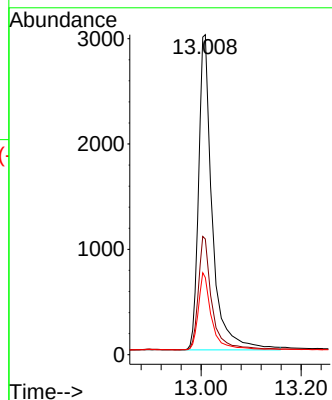
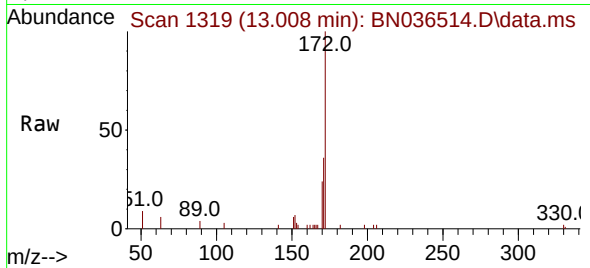




#15
2-Fluorobiphenyl
Concen: 0.443 ng
RT: 13.008 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

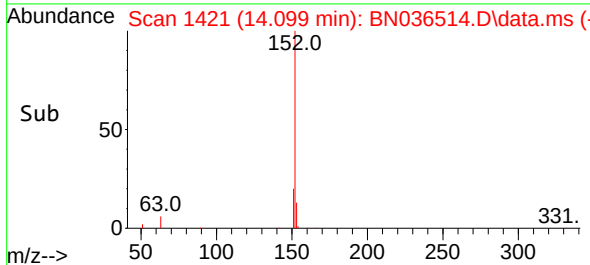
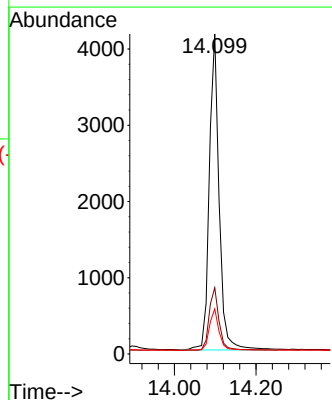
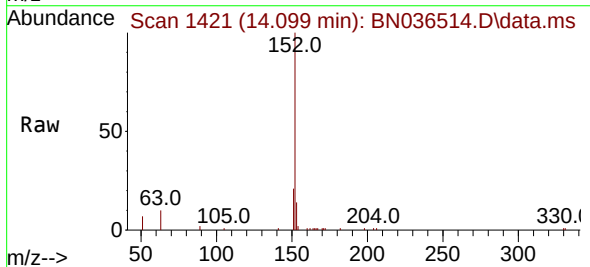
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

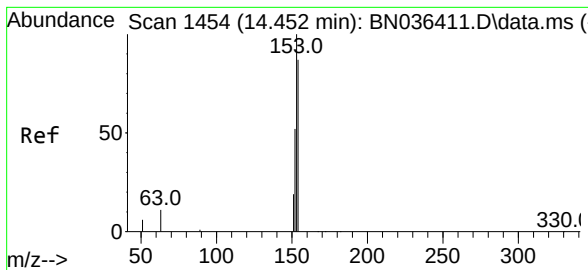
Tgt Ion:172	Resp:	6709
Ion Ratio	Lower	Upper
172	100	
171	36.2	29.6 44.4
170	24.1	19.8 29.6



#16
Acenaphthylene
Concen: 0.391 ng
RT: 14.099 min Scan# 1421
Delta R.T. -0.011 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:152	Resp:	6958
Ion Ratio	Lower	Upper
152	100	
151	20.0	15.8 23.8
153	12.9	10.2 15.2





#17

Acenaphthene

Concen: 0.383 ng

RT: 14.441 min Scan# 1453

Delta R.T. -0.011 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

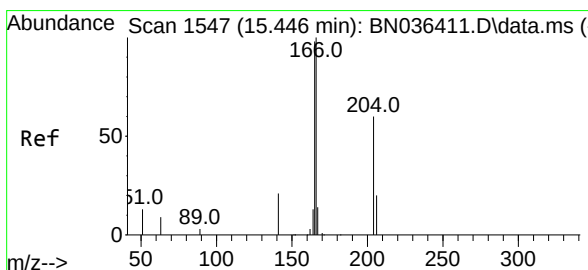
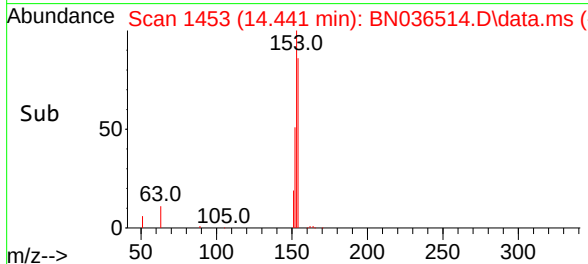
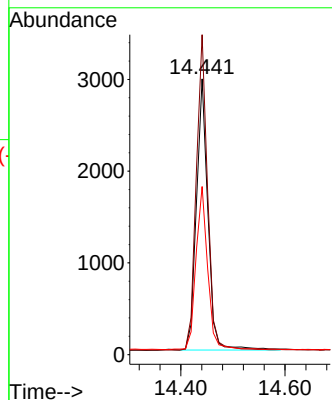
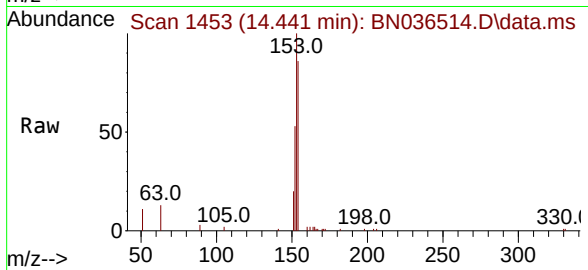
Tgt Ion:154 Resp: 4551

Ion Ratio Lower Upper

154 100

153 114.4 93.3 139.9

152 61.2 48.8 73.2



#18

Fluorene

Concen: 0.369 ng

RT: 15.424 min Scan# 1545

Delta R.T. -0.022 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

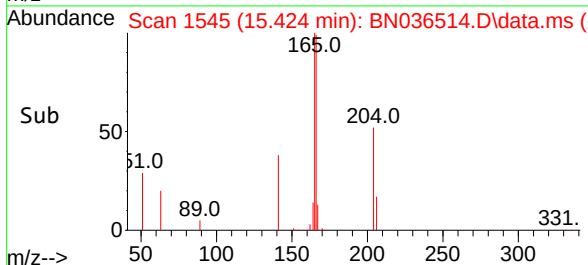
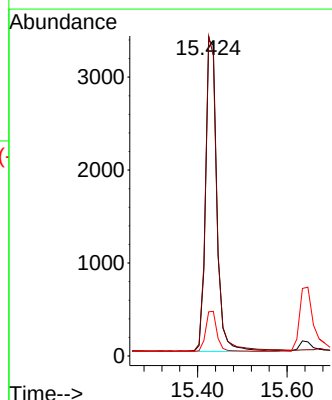
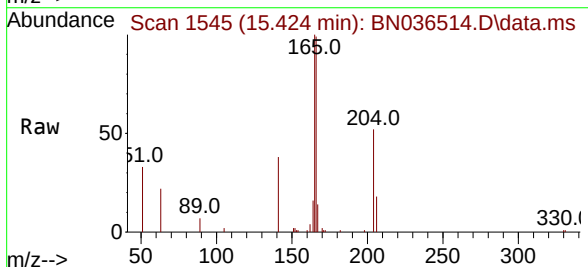
Tgt Ion:166 Resp: 6233

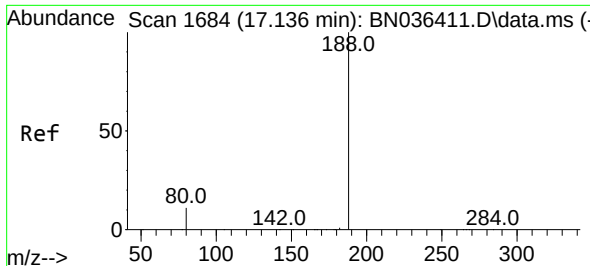
Ion Ratio Lower Upper

166 100

165 98.8 79.5 119.3

167 12.7 10.4 15.6

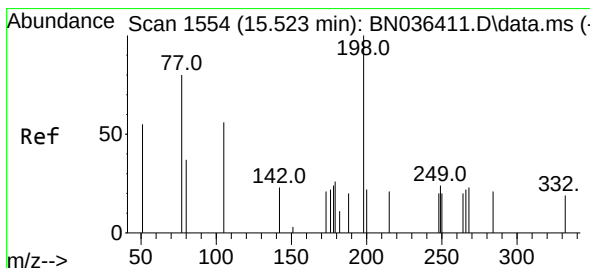
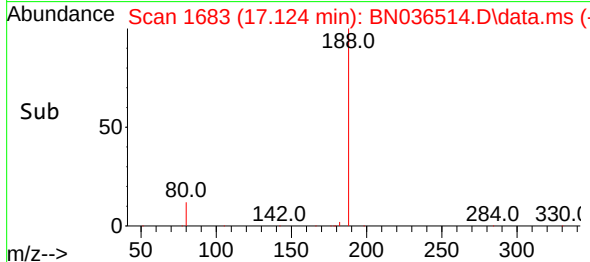
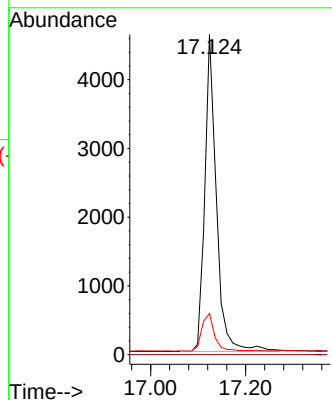
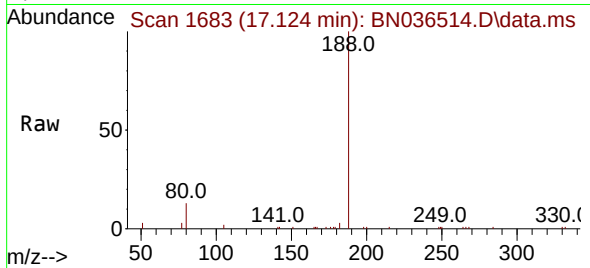




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.124 min Scan# 1683
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

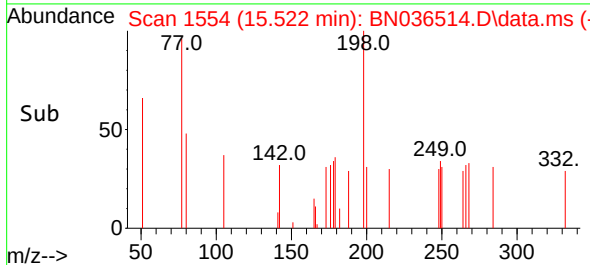
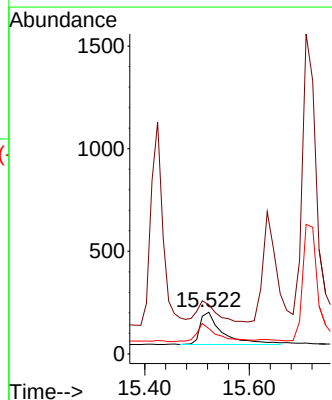
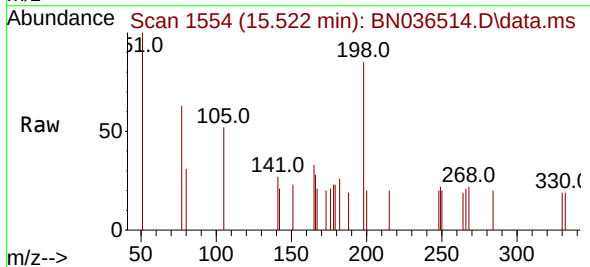
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

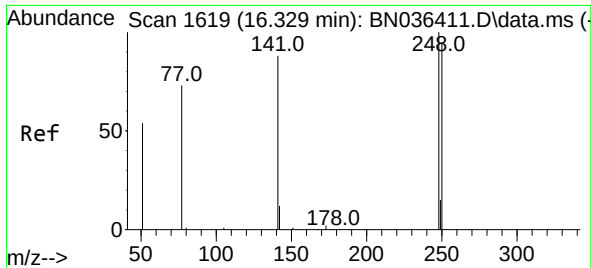
Tgt Ion:188 Resp: 7872
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.8 9.8 14.6



#20
4,6-Dinitro-2-methylphenol
Concen: 0.298 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.001 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:198 Resp: 460
Ion Ratio Lower Upper
198 100
51 118.2 86.6 129.8
105 61.1 57.5 86.3

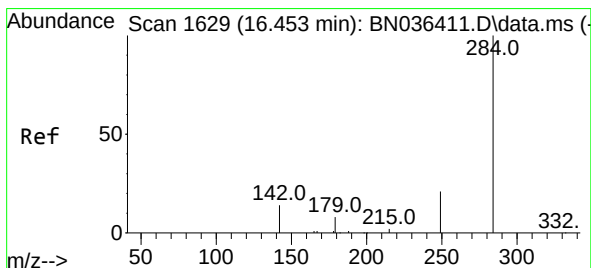
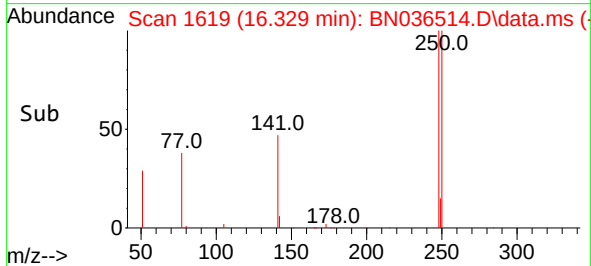
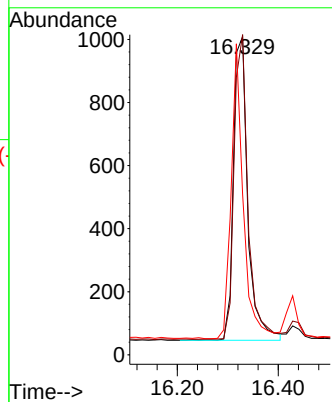
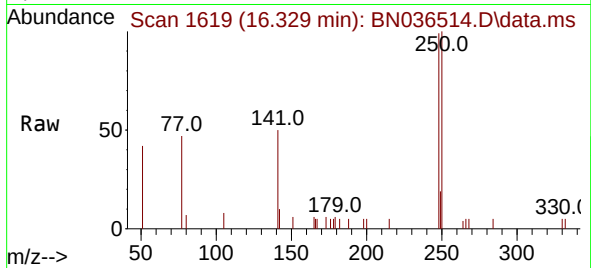




#21
4-Bromophenyl-phenylether
Concen: 0.407 ng
RT: 16.329 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

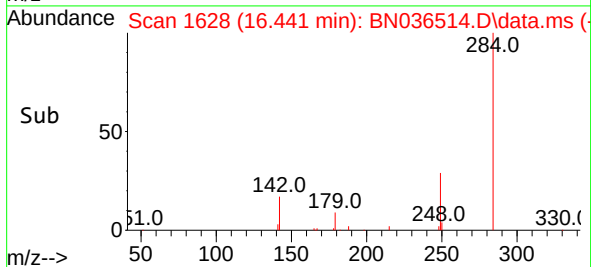
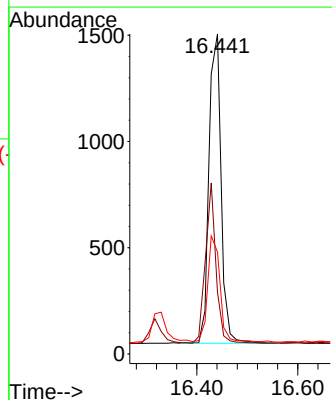
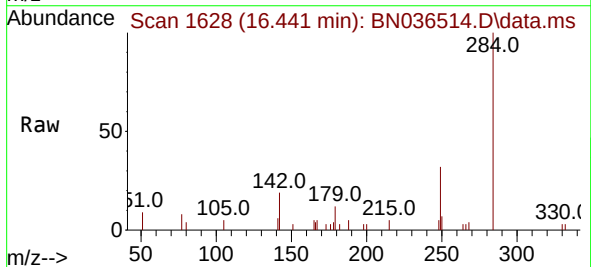
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

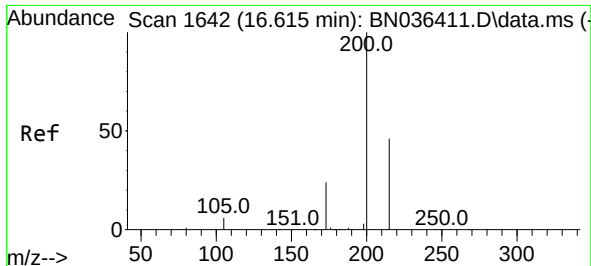
Tgt Ion:248 Resp: 1910
Ion Ratio Lower Upper
248 100
250 100.6 76.1 114.1
141 50.5 71.7 107.5#



#22
Hexachlorobenzene
Concen: 0.418 ng
RT: 16.441 min Scan# 1628
Delta R.T. -0.013 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:284 Resp: 2423
Ion Ratio Lower Upper
284 100
142 45.0 33.4 50.0
249 35.6 28.6 43.0

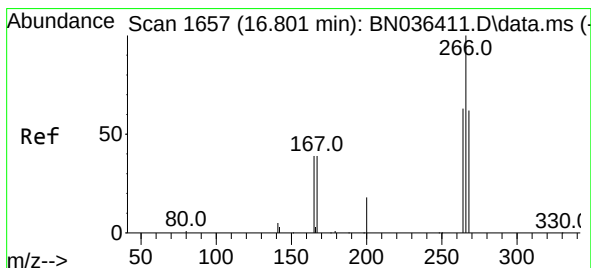
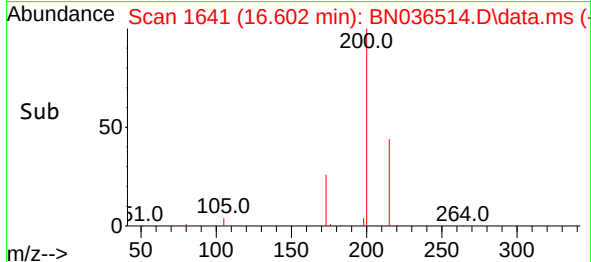
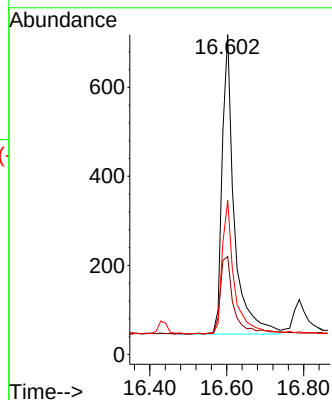
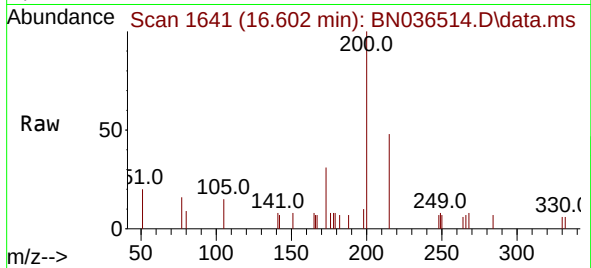




#23
 Atrazine
 Concen: 0.374 ng
 RT: 16.602 min Scan# 1641
 Delta R.T. -0.013 min
 Lab File: BN036514.D
 Acq: 26 Feb 2025 17:20

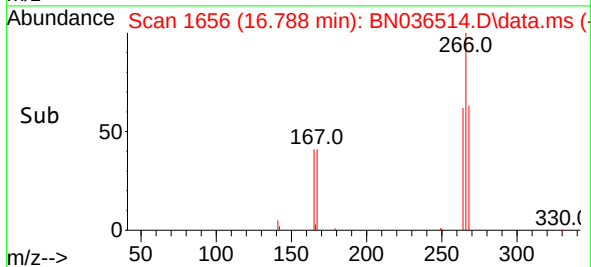
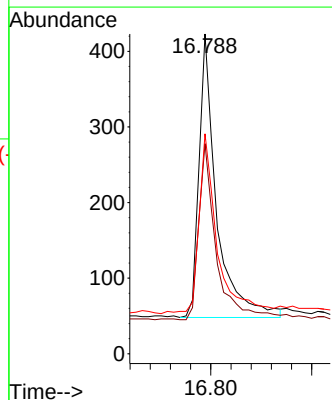
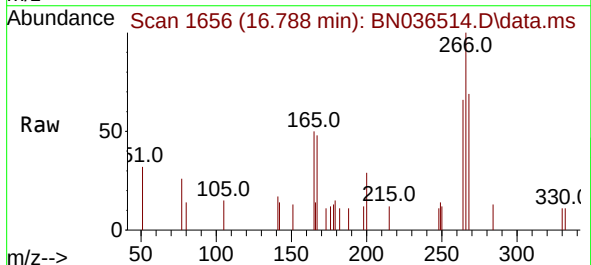
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

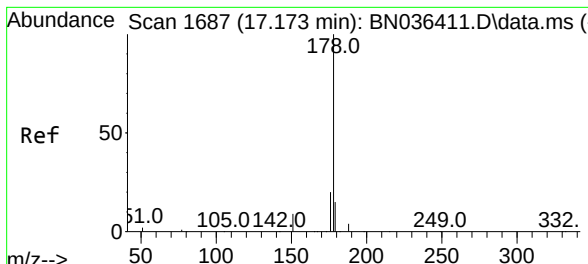
Tgt Ion: 200 Resp: 1468
 Ion Ratio Lower Upper
 200 100
 173 30.6 23.2 34.8
 215 48.2 40.0 60.0



#24
 Pentachlorophenol
 Concen: 0.329 ng
 RT: 16.788 min Scan# 1656
 Delta R.T. -0.013 min
 Lab File: BN036514.D
 Acq: 26 Feb 2025 17:20

Tgt Ion: 266 Resp: 905
 Ion Ratio Lower Upper
 266 100
 264 62.1 50.6 76.0
 268 65.7 51.9 77.9



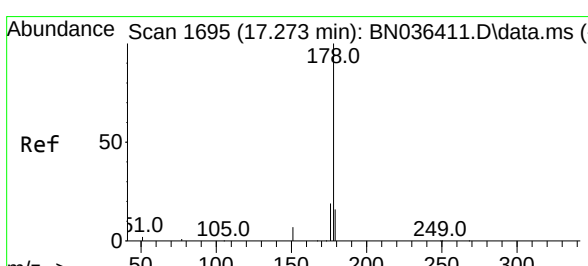
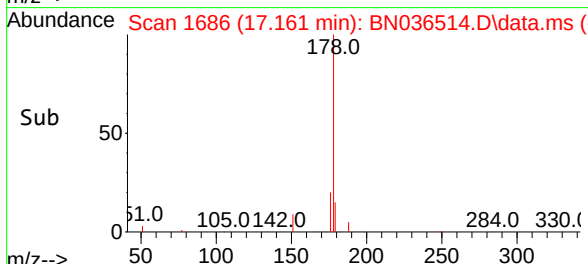
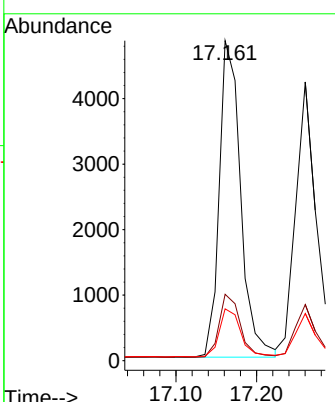
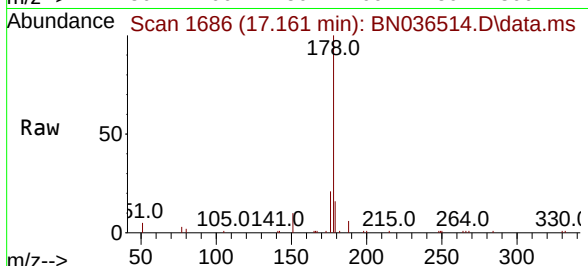


#25
 Phenanthrene
 Concen: 0.391 ng
 RT: 17.161 min Scan# 1686
 Delta R.T. -0.013 min
 Lab File: BN036514.D
 Acq: 26 Feb 2025 17:20

Instrument : BNA_N
 ClientSampleId : SSTDCCC0.4EC

Tgt Ion:178 Resp: 8907

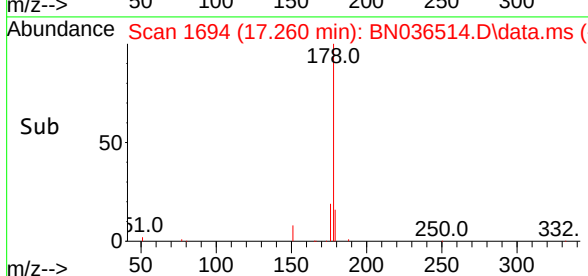
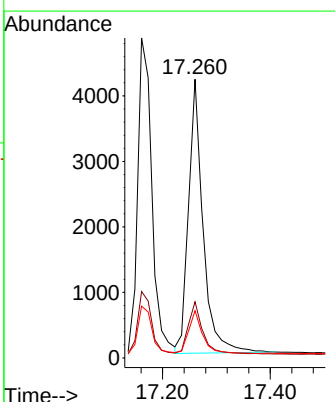
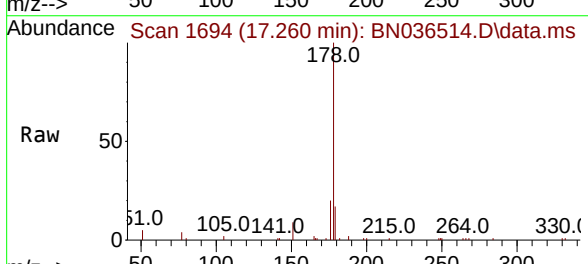
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.3	12.4	18.6

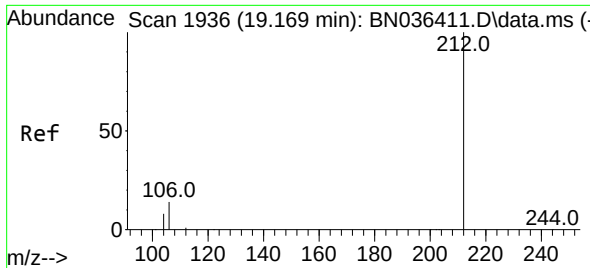


#26
 Anthracene
 Concen: 0.392 ng
 RT: 17.260 min Scan# 1694
 Delta R.T. -0.013 min
 Lab File: BN036514.D
 Acq: 26 Feb 2025 17:20

Tgt Ion:178 Resp: 7860

Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.9	22.3
179	15.1	12.4	18.6

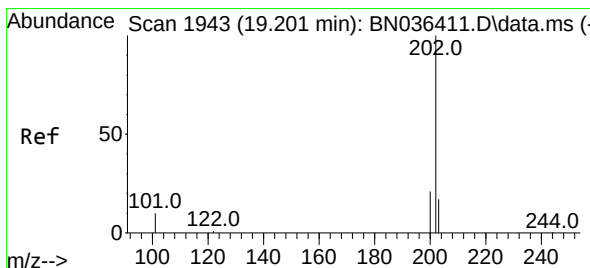
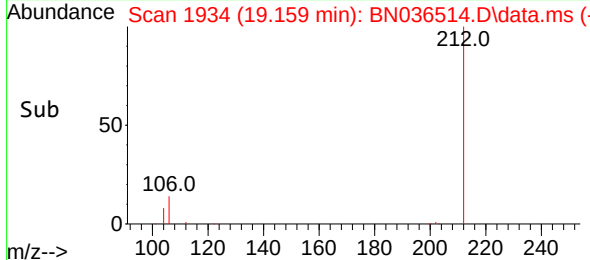
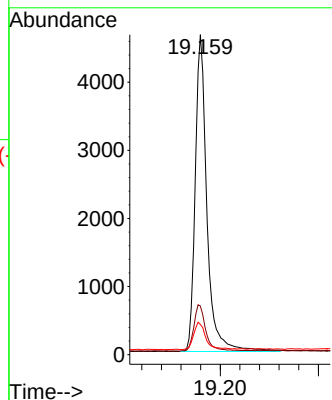
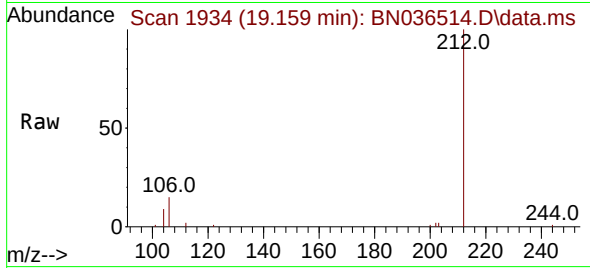




#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 19.159 min Scan# 1934
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

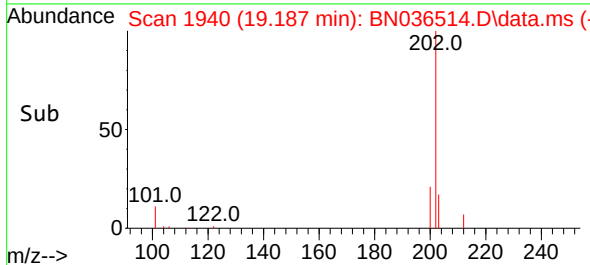
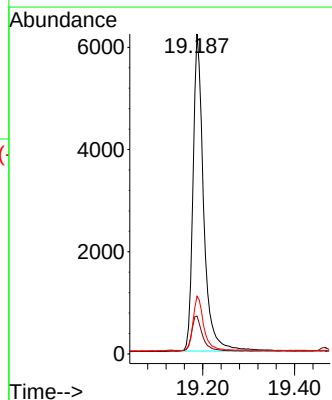
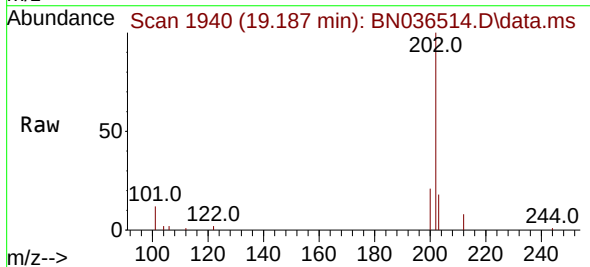
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

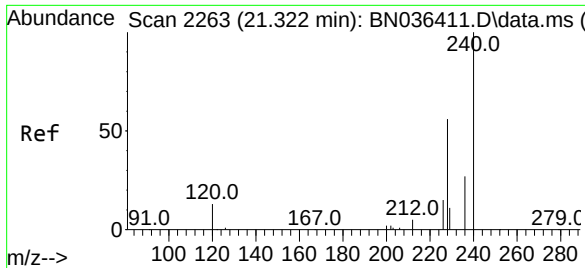
Tgt Ion:212 Resp: 7665
Ion Ratio Lower Upper
212 100
106 14.8 11.5 17.3
104 8.9 7.1 10.7



#28
Fluoranthene
Concen: 0.357 ng
RT: 19.187 min Scan# 1940
Delta R.T. -0.014 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:202 Resp: 9979
Ion Ratio Lower Upper
202 100
101 11.9 9.2 13.8
203 17.0 13.4 20.0

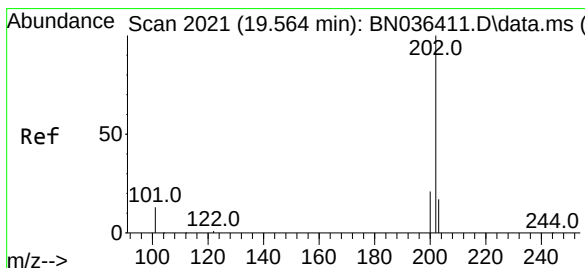
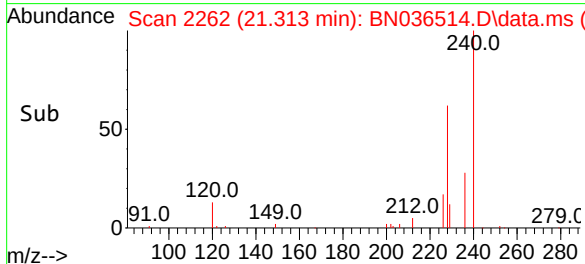
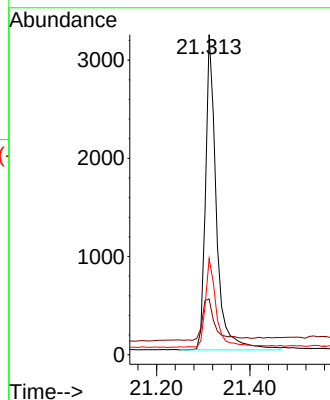
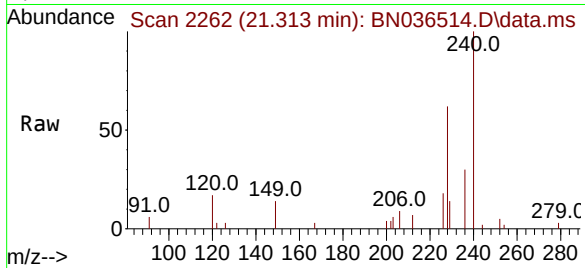




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.313 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

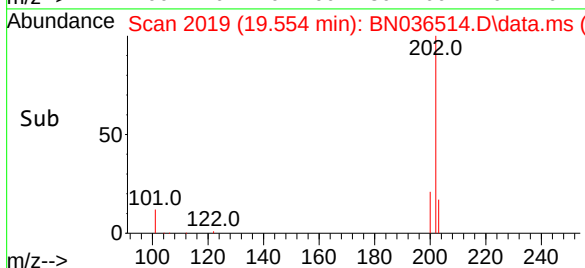
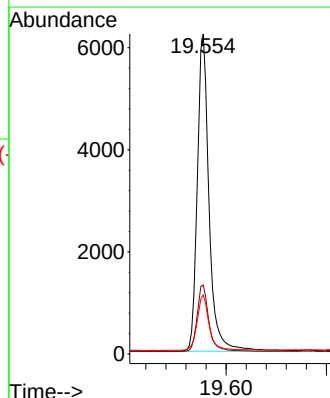
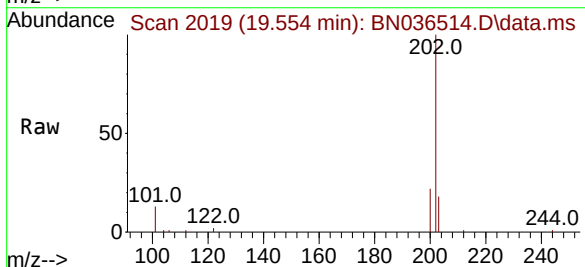
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

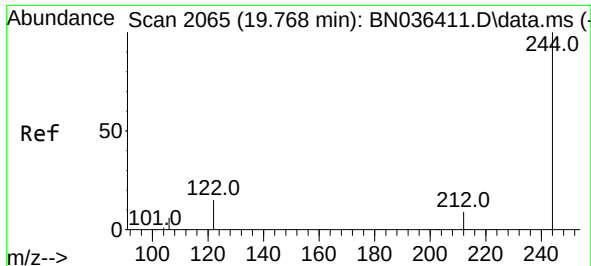
Tgt Ion:240 Resp: 5200
Ion Ratio Lower Upper
240 100
120 17.4 13.3 19.9
236 30.0 23.0 34.6



#30
Pyrene
Concen: 0.502 ng
RT: 19.554 min Scan# 2019
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:202 Resp: 10060
Ion Ratio Lower Upper
202 100
200 21.1 16.9 25.3
203 17.6 13.9 20.9

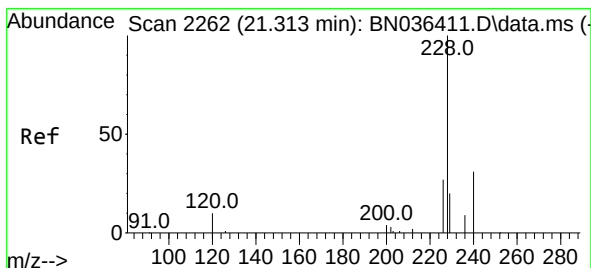
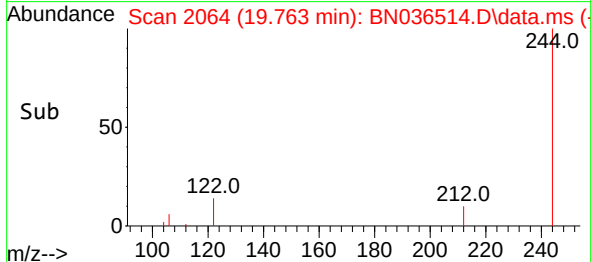
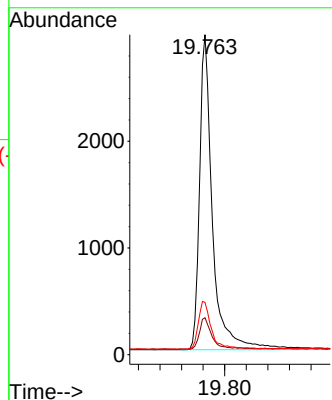
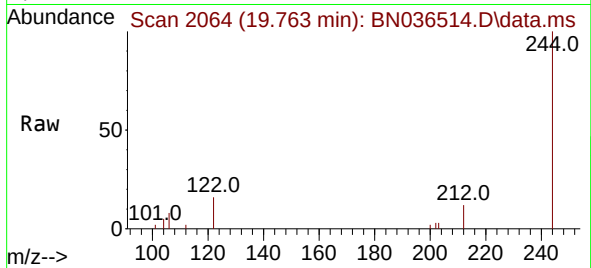




#31
 Terphenyl-d14
 Concen: 0.439 ng
 RT: 19.763 min Scan# 2065
 Delta R.T. -0.005 min
 Lab File: BN036514.D
 Acq: 26 Feb 2025 17:20

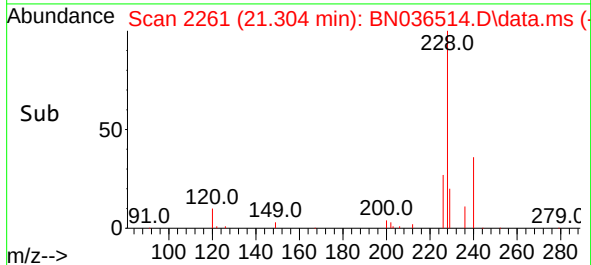
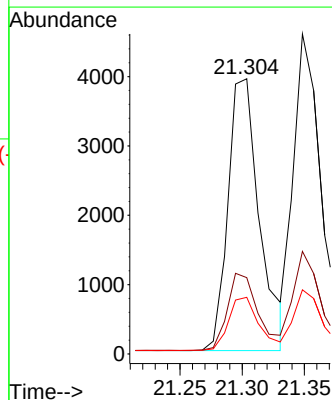
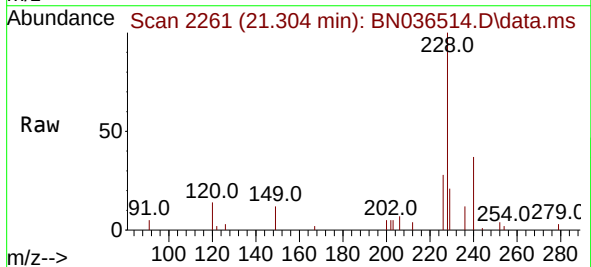
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

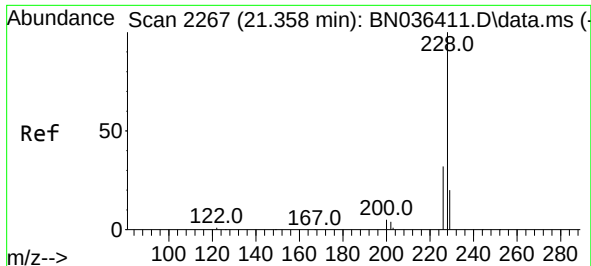
Tgt Ion:244 Resp: 4873
 Ion Ratio Lower Upper
 244 100
 212 11.5 8.1 12.1
 122 16.3 12.8 19.2



#32
 Benzo(a)anthracene
 Concen: 0.403 ng
 RT: 21.304 min Scan# 2261
 Delta R.T. -0.009 min
 Lab File: BN036514.D
 Acq: 26 Feb 2025 17:20

Tgt Ion:228 Resp: 6902
 Ion Ratio Lower Upper
 228 100
 226 27.7 22.2 33.2
 229 20.6 16.5 24.7

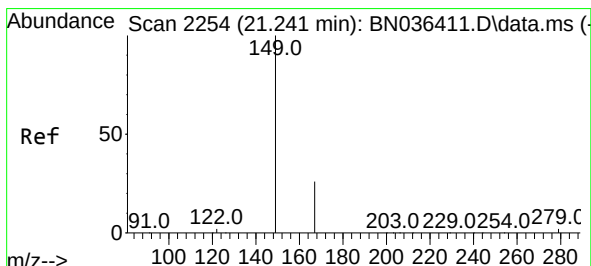
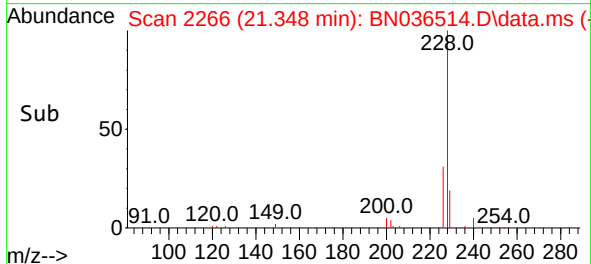
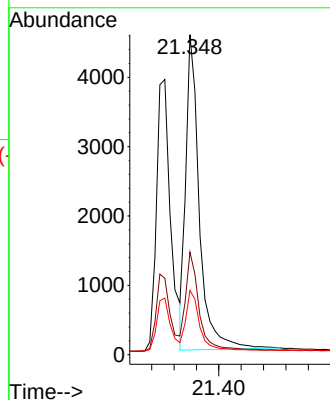
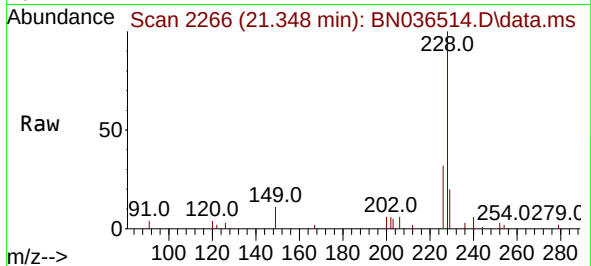




#33
Chrysene
Concen: 0.413 ng
RT: 21.348 min Scan# 21348
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

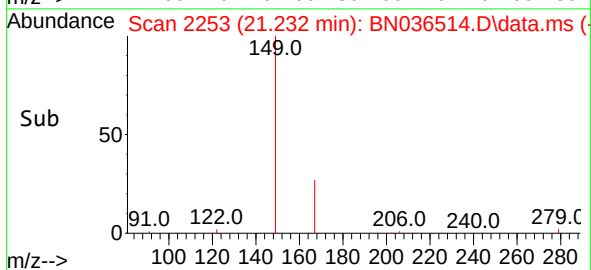
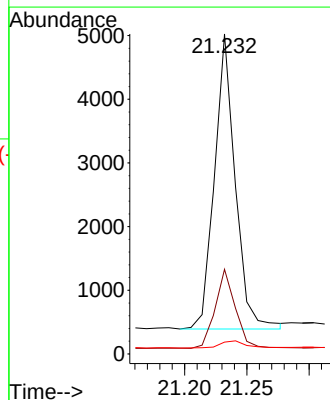
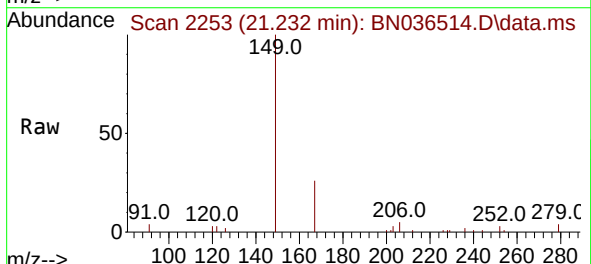
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

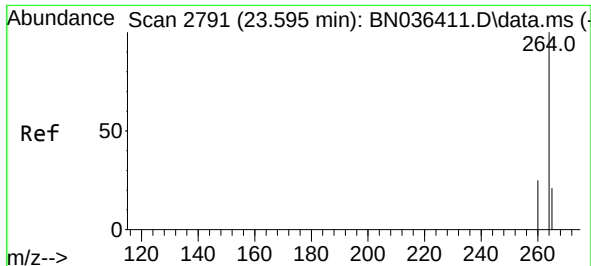
Tgt Ion:228 Resp: 7654
Ion Ratio Lower Upper
228 100
226 32.0 25.5 38.3
229 20.1 16.4 24.6



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.504 ng
RT: 21.232 min Scan# 2253
Delta R.T. -0.009 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

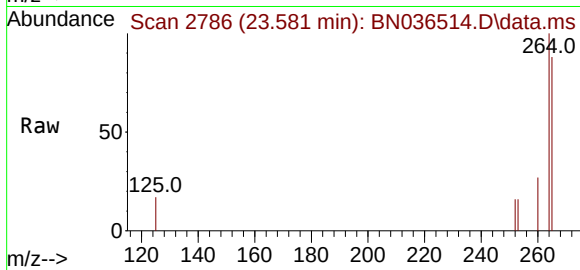
Tgt Ion:149 Resp: 5377
Ion Ratio Lower Upper
149 100
167 26.0 21.2 31.8
279 3.0 2.7 4.1



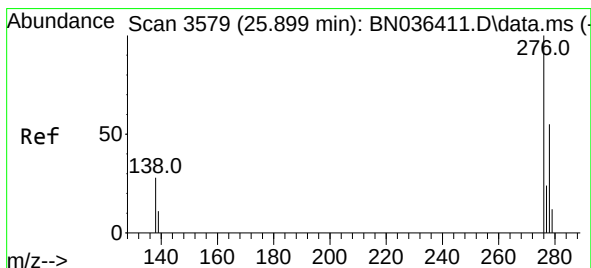
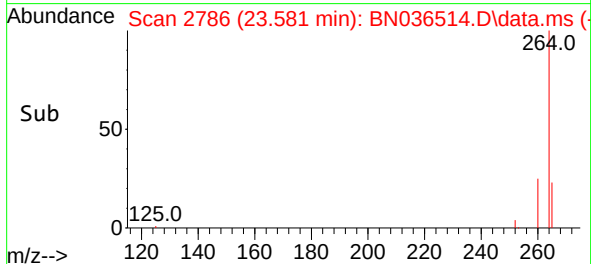
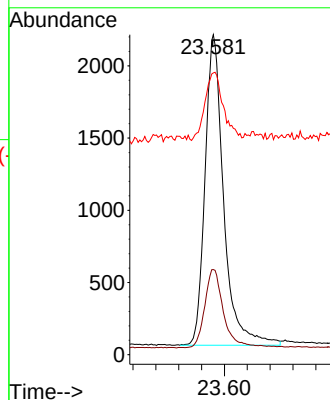


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.581 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

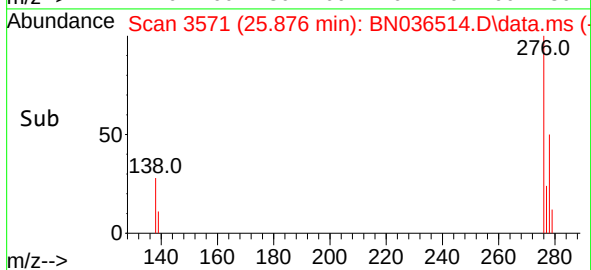
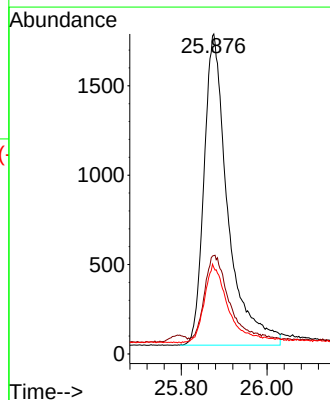
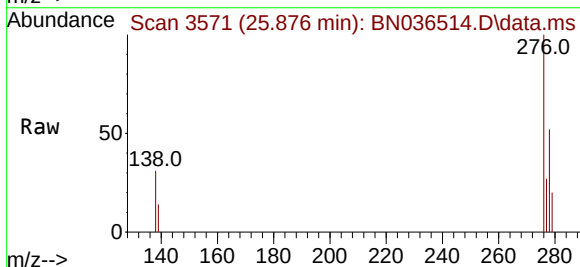


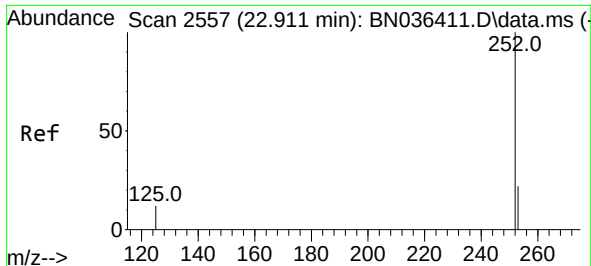
Tgt Ion:264 Resp: 4873
Ion Ratio Lower Upper
264 100
260 26.6 20.9 31.3
265 88.0 60.7 91.1



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.394 ng
RT: 25.876 min Scan# 3571
Delta R.T. -0.024 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:276 Resp: 6718
Ion Ratio Lower Upper
276 100
138 27.1 22.2 33.2
277 24.5 19.8 29.6

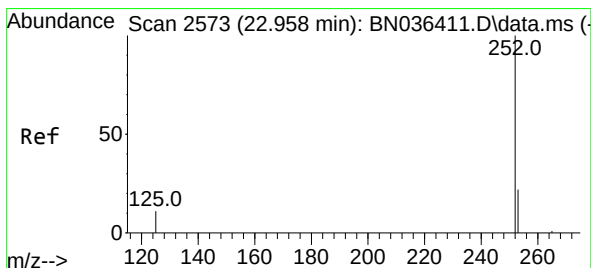
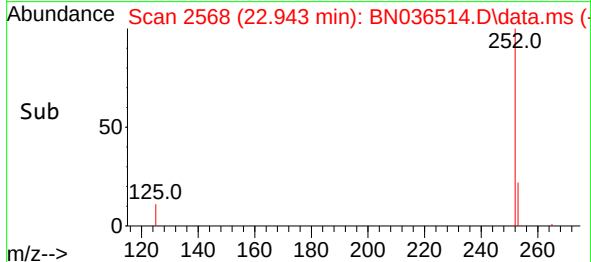
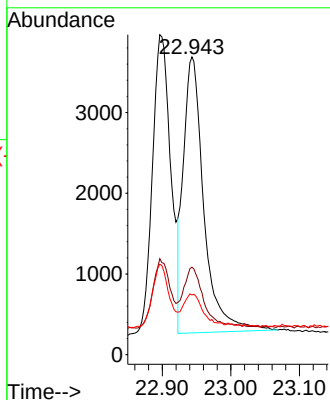
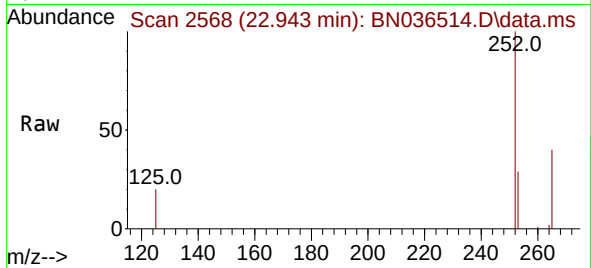




#37
Benzo(b)fluoranthene
Concen: 0.442 ng
RT: 22.943 min Scan# 2568
Delta R.T. 0.032 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

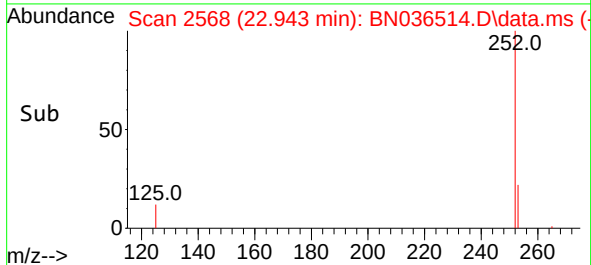
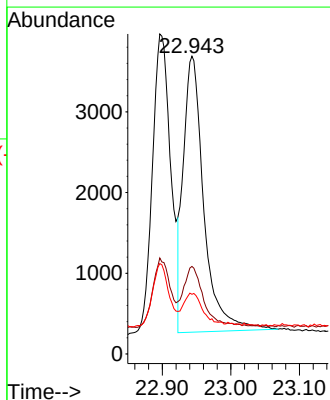
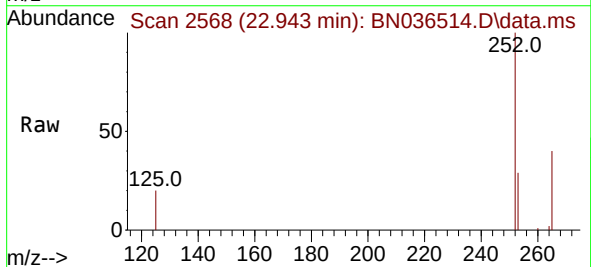
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

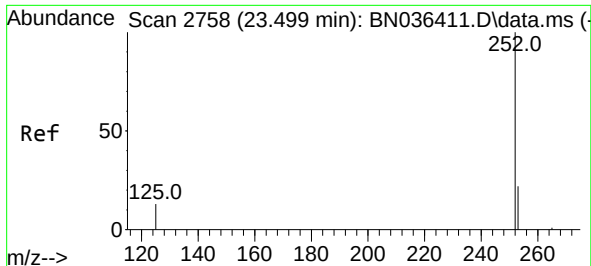
Tgt Ion:252 Resp: 7096
Ion Ratio Lower Upper
252 100
253 29.4 21.9 32.9
125 20.1 15.0 22.6



#38
Benzo(k)fluoranthene
Concen: 0.430 ng
RT: 22.943 min Scan# 2568
Delta R.T. -0.015 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Tgt Ion:252 Resp: 7096
Ion Ratio Lower Upper
252 100
253 29.4 22.2 33.4
125 20.1 15.0 22.4





#39

Benzo(a)pyrene

Concen: 0.423 ng

RT: 23.481 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

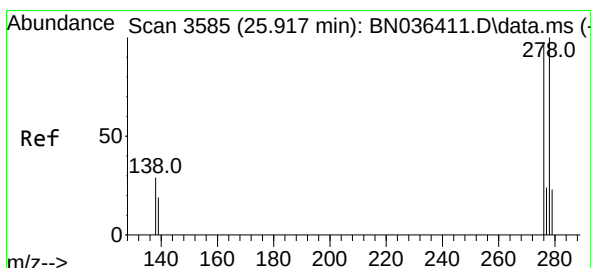
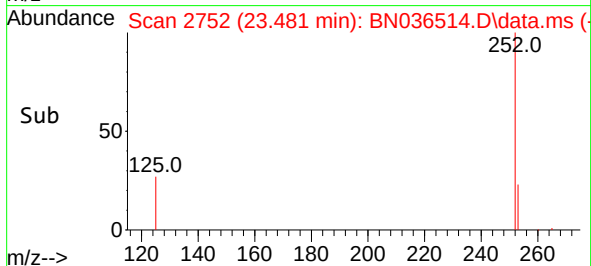
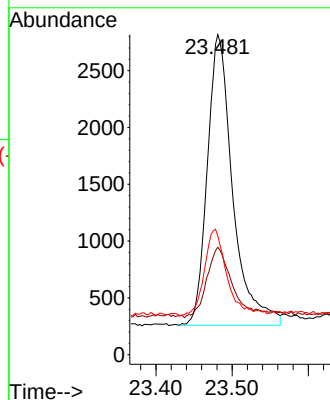
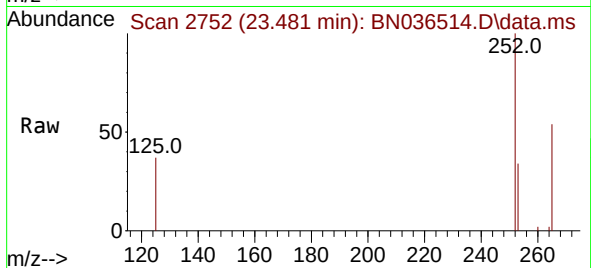
Tgt Ion:252 Resp: 5929

Ion Ratio Lower Upper

252 100

253 33.5 24.4 36.6

125 37.1 18.2 27.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.893 min Scan# 3577

Delta R.T. -0.024 min

Lab File: BN036514.D

Acq: 26 Feb 2025 17:20

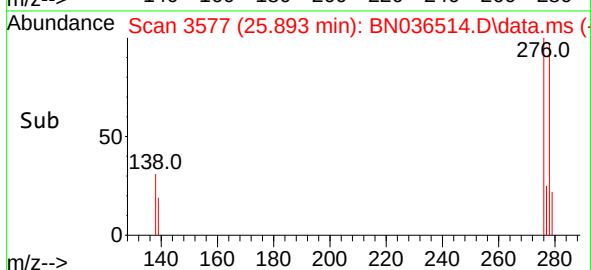
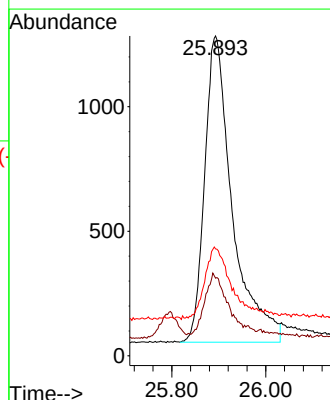
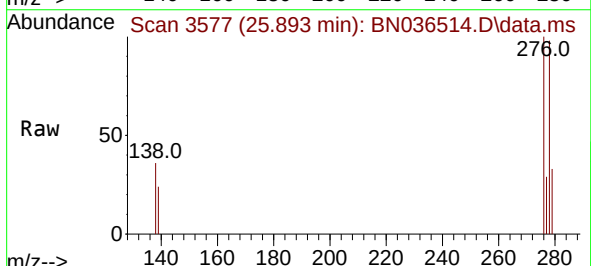
Tgt Ion:278 Resp: 5024

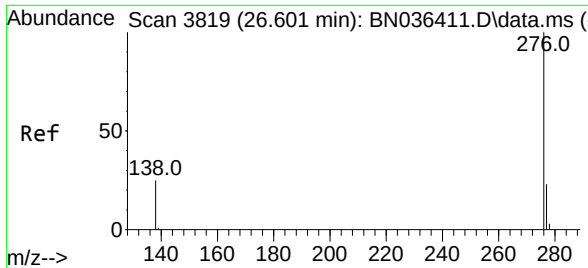
Ion Ratio Lower Upper

278 100

139 24.3 18.5 27.7

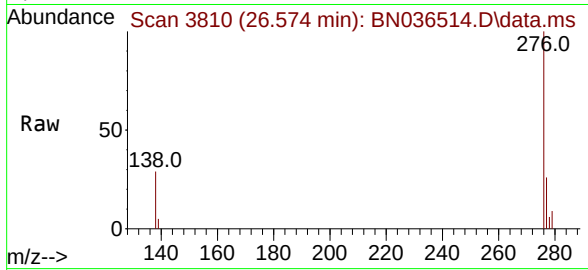
279 33.4 24.8 37.2





#41
Benzo(g,h,i)perylene
Concen: 0.398 ng
RT: 26.574 min Scan# 3810
Delta R.T. -0.026 min
Lab File: BN036514.D
Acq: 26 Feb 2025 17:20

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



Tgt Ion:	276	Resp:	6064
Ion	Ratio	Lower	Upper
276	100		
277	26.4	20.7	31.1
138	28.8	21.8	32.6

