

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 : Q1773
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1773

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1773-01
Q1773-02
Q1773-03

Client Sample Number

BP-TB-20250407
BP-TT190D2-GW-20250407
BP-TT190D1-GW-20250409

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 12:43 pm, Apr 21, 2025

Date: 4/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # Q1773

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 04/10/2025.

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 PB167565BSD [2-Fluorobiphenyl - 113%,] and BP-TT-190D2-GW-20250407 [2-Fluorobiphenyl - 108%, Terphenyl-d14 - 143%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken..

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:43 pm, Apr 21, 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: Q1773

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for PB167565BSD [2- Fluorobiphenyl - 113%,] and BP-TT-190D2-GW-20250407 [2-Fluorobiphenyl - 108%, Terphenyl-d14 - 143%], The failure surrogates not associated with the client parameters list, therefore no corrective action was taken..		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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

		NA	NO	YES
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 10:03 am, Apr 21, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1773

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: 04/18/2025

LAB CHRONICLE

OrderID:	Q1773	OrderDate:	4/10/2025 10:14:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	F11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1773-02	BP-TT190D2-GW-202 50407	Water			04/07/25			04/10/25
			SVOC-SIMGroup1	8270-Modified		04/11/25	04/11/25	
Q1773-03	BP-TT190D1-GW-202 50409	Water			04/09/25			04/10/25
			SVOC-SIMGroup1	8270-Modified		04/11/25	04/11/25	

Hit Summary Sheet SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-TT190D2-GW-20250407								
Q1773-02	BP-TT190D2-GW-20250 WATER	1,4-Dioxane	2.500		0.07	0.21	0.21	ug/L
		Total Svoc :		2.50				
		Total Concentration:		2.50				
Client ID : BP-TT190D1-GW-20250409								
Q1773-03	BP-TT190D1-GW-20250 WATER	1,4-Dioxane	2.100		0.07	0.2	0.2	ug/L
		Total Svoc :		2.10				
		Total Concentration:		2.10				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB167565BL	PB167565BL	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB167565BS	PB167565BS	2-Methylnaphthalene-d10	0.4	0.46	116		30	150
		Fluoranthene-d10	0.4	0.46	115		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.40	100		58	132
PB167565BSD	PB167565BSD	2-Methylnaphthalene-d10	0.4	0.44	111		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.45	113	*	53	106
		Terphenyl-d14	0.4	0.43	108		58	132
Q1773-02	BP-TT190D2-GW-20250407	2-Methylnaphthalene-d10	0.4	0.41	102		30	150
		Fluoranthene-d10	0.4	0.51	128		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.43	108	*	53	106
		Terphenyl-d14	0.4	0.57	143	*	58	132
Q1773-03	BP-TT190D1-GW-20250409	2-Methylnaphthalene-d10	0.4	0.38	96		30	150
		Fluoranthene-d10	0.4	0.47	117		30	150
		Nitrobenzene-d5	0.4	0.37	94		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.51	128		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036891.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167565BS	1,4-Dioxane	0.4	0.35	ug/L	88				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1773

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036892.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB167565BSD	1,4-Dioxane	0.4	0.41	ug/L	103	16			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167565BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1773

SAS No.: Q1773 SDG NO.: Q1773

Lab File ID: BN036885.D

Lab Sample ID: PB167565BL

Instrument ID: BNA_N

Date Extracted: 04/11/2025

Matrix: (soil/water) Water

Date Analyzed: 04/11/2025

Level: (low/med) LOW

Time Analyzed: 19:21

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167565BS	PB167565BS	BN036891.D	04/11/2025
BP-TT190D2-GW-20250407	Q1773-02	BN036889.D	04/11/2025
BP-TT190D1-GW-20250409	Q1773-03	BN036890.D	04/11/2025
PB167565BSD	PB167565BSD	BN036892.D	04/11/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1773SDG NO.: Q1773Lab File ID: BN036872.DDFTPP Injection Date: 04/11/2025Instrument ID: BNA_NDFTPP Injection Time: 11:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	64.6
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	54
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	50.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	10.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.3 (21.3) 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	BN036873.D	04/11/2025	11:42
SSTDICC0.2	SSTDICC0.2	BN036874.D	04/11/2025	12:37
SSTDICCC0.4	SSTDICCC0.4	BN036875.D	04/11/2025	13:17
SSTDICC0.8	SSTDICC0.8	BN036876.D	04/11/2025	13:53
SSTDICC1.6	SSTDICC1.6	BN036877.D	04/11/2025	14:30
SSTDICC3.2	SSTDICC3.2	BN036878.D	04/11/2025	15:06
SSTDICC5.0	SSTDICC5.0	BN036879.D	04/11/2025	15:42



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q1773 SDG NO.: Q1773Lab File ID: BN036883.DDFTPP Injection Date: 04/11/2025Instrument ID: BNA_NDFTPP Injection Time: 18:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	68.5
68	Less than 2.0% of mass 69	0.5 (0.9) 1
69	Mass 69 relative abundance	55.2
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	53.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	21.7
365	Greater than 1% of mass 198	2.5
441	Present, but less than mass 443	10.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.9 (19.6) 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	BN036884.D	04/11/2025	18:45
PB167565BL	PB167565BL	BN036885.D	04/11/2025	19:21
BP-TT190D2-GW-20250407	Q1773-02	BN036889.D	04/11/2025	21:46
BP-TT190D1-GW-20250409	Q1773-03	BN036890.D	04/11/2025	22:22
PB167565BS	PB167565BS	BN036891.D	04/11/2025	22:57
PB167565BSD	PB167565BSD	BN036892.D	04/11/2025	23:33
SSTDCCC0.4EC	SSTDCCC0.4	BN036895.D	04/12/2025	01:21

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1773 SAS No.: Q1773 SDG NO.: Q1773

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/11/2025

Lab File ID: BN036884.D Time Analyzed: 18:45

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	254	7.64	679	10.43	407	14.29
UPPER LIMIT	508	8.14	1358	10.925	814	14.788
LOWER LIMIT	127	7.14	339.5	9.925	203.5	13.788
EPA SAMPLE NO.						
01 PB167565BL	228	7.64	558	10.43	321	14.29
02 PB167565BS	208	7.64	496	10.43	321	14.29
03 PB167565BSD	383	7.64	935	10.43	512	14.29
04 BP-TT190D2-GW-20250407	223	7.64	582	10.43	355	14.29
05 BP-TT190D1-GW-20250409	423	7.64	1033	10.43	590	14.29

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.: Q1773 SAS No.: Q1773 SDG NO.: Q1773

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 04/11/2025

Lab File ID: BN036884.D Time Analyzed: 18:45

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	865	17.033	1015	21.233	1369	23.447
UPPER LIMIT	1730	17.533	2030	21.733	2738	23.947
LOWER LIMIT	432.5	16.533	507.5	20.733	684.5	22.947
EPA SAMPLE NO.						
01 PB167565BL	761	17.03	945	21.23	1194	23.45
02 PB167565BS	731	17.03	908	21.23	1138	23.45
03 PB167565BSD	1263	17.03	1400	21.22	1606	23.45
04 BP-TT190D2-GW-20250407	872	17.03	1197	21.23	1560	23.45
05 BP-TT190D1-GW-20250409	1355	17.03	1635	21.23	2047	23.45

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:	04/07/25
Project:	CTO WE13	Date Received:	04/10/25
Client Sample ID:	BP-TT190D2-GW-20250407	SDG No.:	Q1773
Lab Sample ID:	Q1773-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036889.D	1	04/11/25 09:20	04/11/25 21:46	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.50		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.41		30 - 150		102%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.51		30 - 150		128%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.43	*	53 - 106		108%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		143%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	223		7.64			
1146-65-2	Naphthalene-d8	582		10.426			
15067-26-2	Acenaphthene-d10	355		14.288			
1517-22-2	Phenanthrene-d10	872		17.033			
1719-03-5	Chrysene-d12	1200		21.233			
1520-96-3	Perylene-d12	1560		23.447			

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\BN041125\
Data File : BN036889.D
Acq On : 11 Apr 2025 21:46
Operator : RC/JU
Sample : Q1773-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

Quant Time: Apr 11 23:07:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

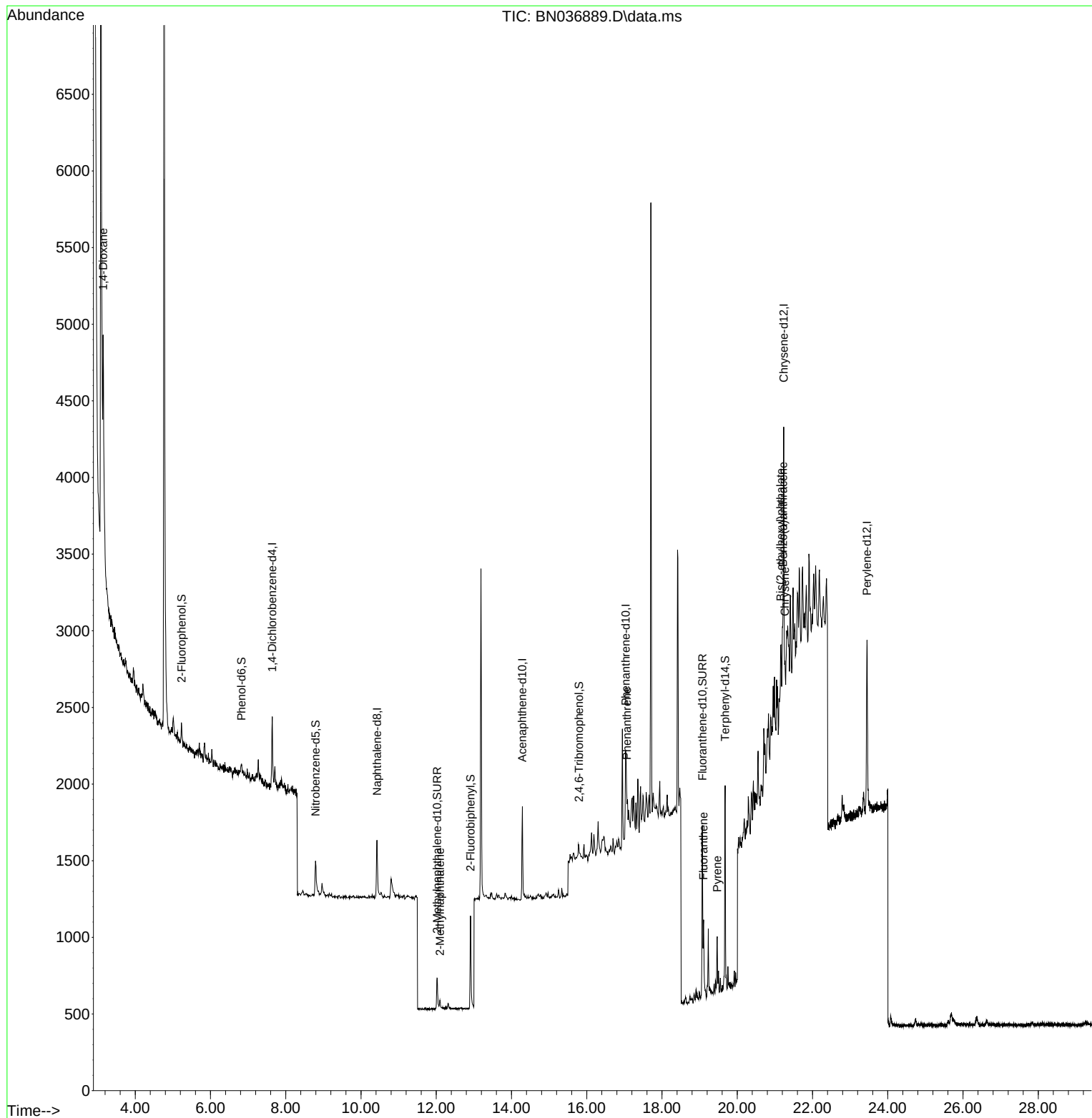
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	223	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	582	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	355	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	872	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1197	0.400	ng	# 0.00
35) Perylene-d12	23.447	264	1560	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	95	0.181	ng	0.00
5) Phenol-d6	6.824	99	80	0.119	ng	0.00
8) Nitrobenzene-d5	8.792	82	260	0.402	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	346	0.409	ng	0.00
14) 2,4,6-Tribromophenol	15.792	330	58	0.339	ng	0.01
15) 2-Fluorobiphenyl	12.909	172	734	0.431	ng	0.00
27) Fluoranthene-d10	19.073	212	1256	0.511	ng	0.00
31) Terphenyl-d14	19.677	244	1304	0.573	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	633	2.448	ng	# 81
12) 2-Methylnaphthalene	12.097	142	41	0.038	ng	# 72
25) Phenanthrene	17.071	178	88	0.034	ng	# 67
28) Fluoranthene	19.100	202	321	0.098	ng	# 47
30) Pyrene	19.467	202	380	0.084	ng	99
32) Benzo(a)anthracene	21.215	228	149	0.035	ng	# 40
33) Chrysene	21.269	228	124	0.027	ng	# 40
34) Bis(2-ethylhexyl)phtha...	21.153	149	411	0.131	ng	# 96

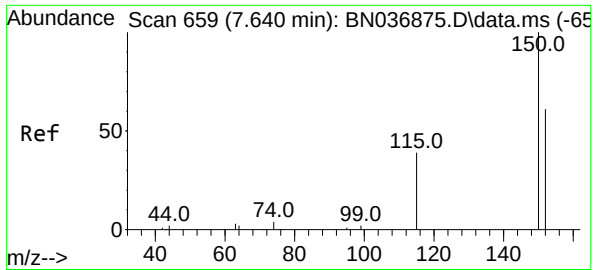
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036889.D
Acq On : 11 Apr 2025 21:46
Operator : RC/JU
Sample : Q1773-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

Quant Time: Apr 11 23:07:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

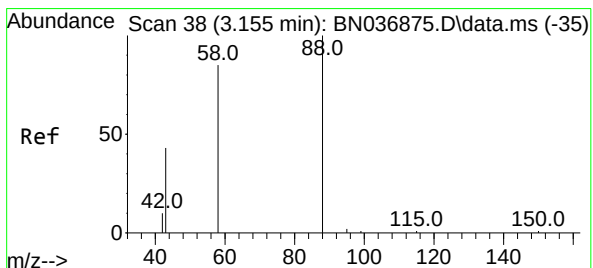
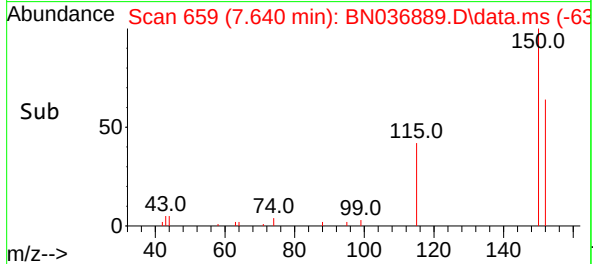
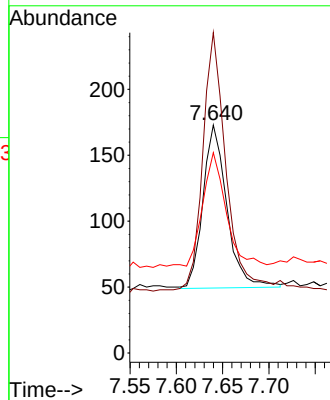
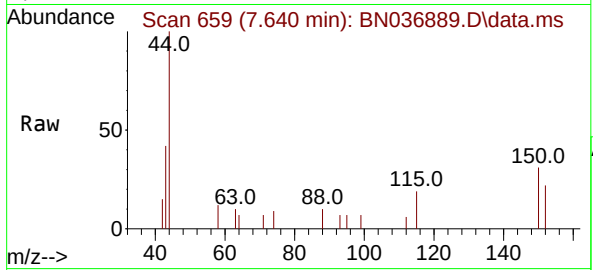




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

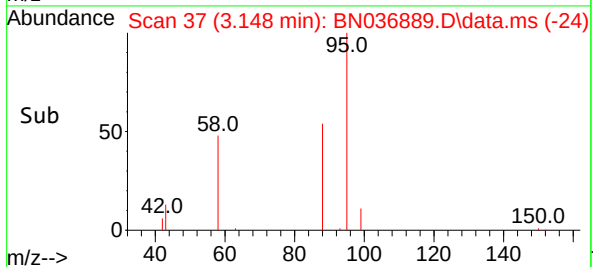
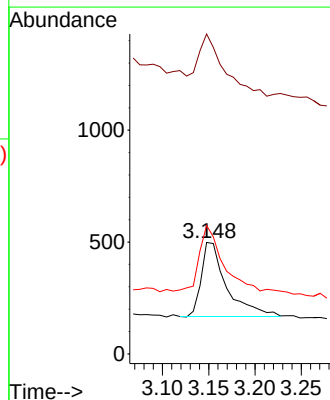
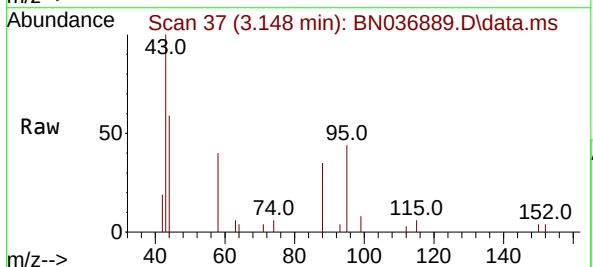
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

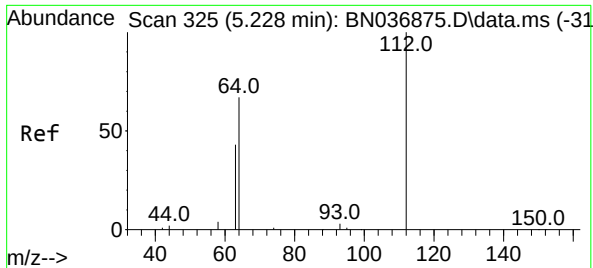
Tgt Ion:152 Resp: 223
Ion Ratio Lower Upper
152 100
150 140.5 123.0 184.6
115 87.9 60.1 90.1



#2
1,4-Dioxane
Concen: 2.448 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion: 88 Resp: 633
Ion Ratio Lower Upper
88 100
43 81.2 39.2 58.8#
58 80.4 63.5 95.3

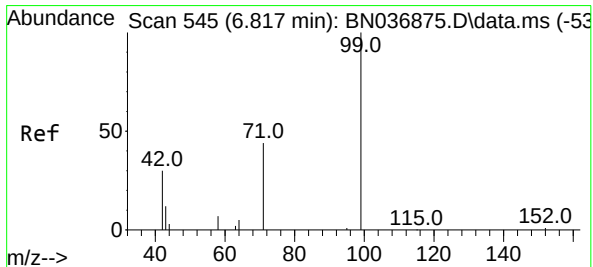
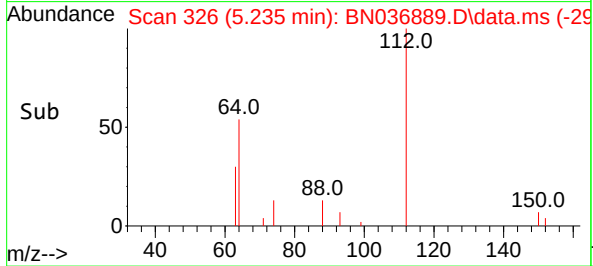
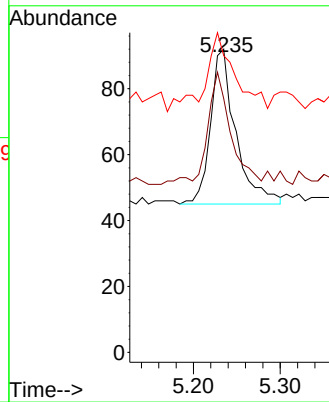
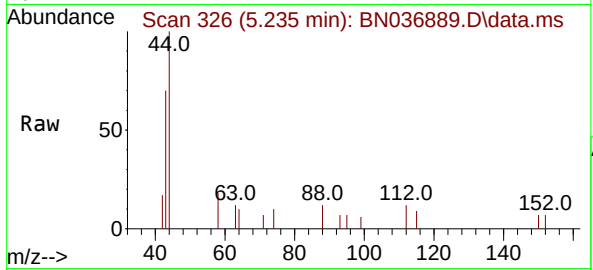




#4
2-Fluorophenol
Concen: 0.181 ng
RT: 5.235 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

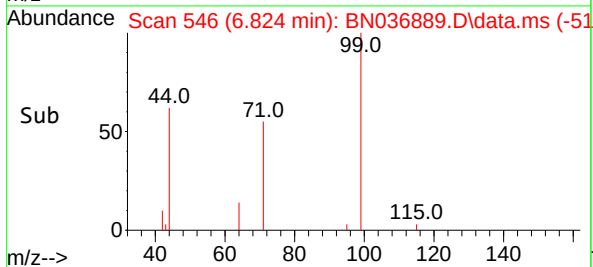
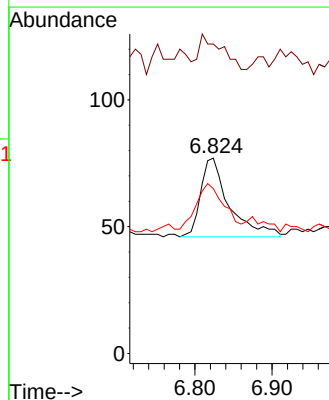
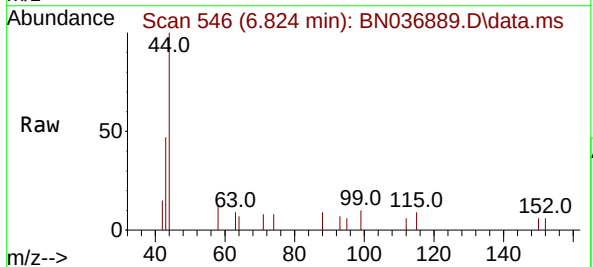
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

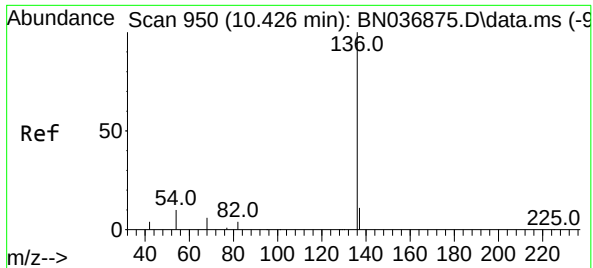
Tgt Ion:112 Resp: 95
Ion Ratio Lower Upper
112 100
64 66.3 54.0 81.0
63 61.1 35.1 52.7#



#5
Phenol-d6
Concen: 0.119 ng
RT: 6.824 min Scan# 546
Delta R.T. 0.007 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion: 99 Resp: 80
Ion Ratio Lower Upper
99 100
42 38.8 30.9 46.3
71 55.0 38.6 58.0

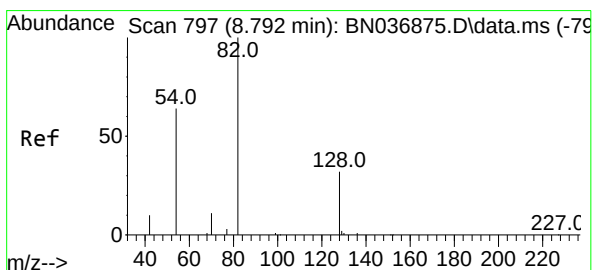
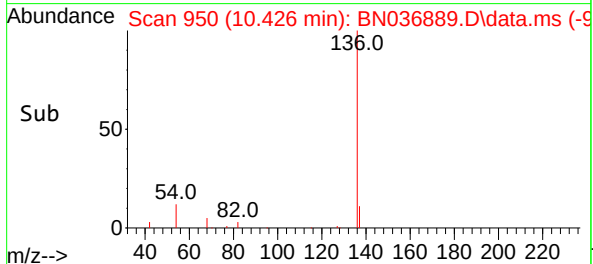
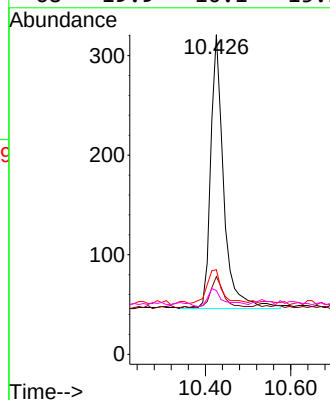
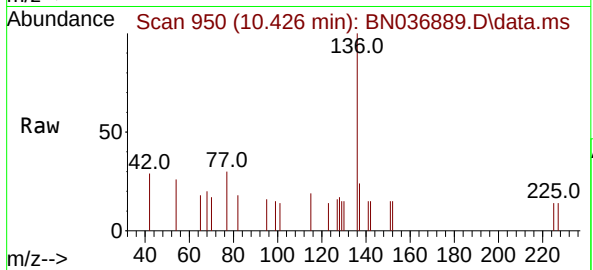




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

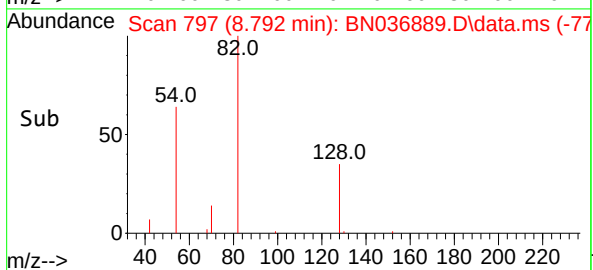
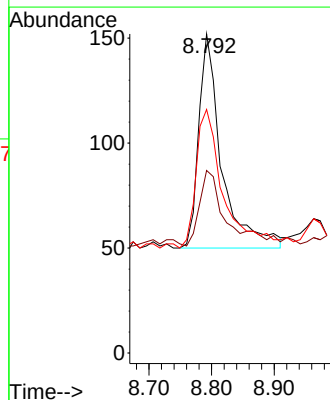
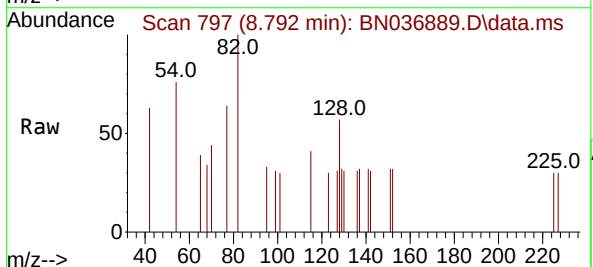
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

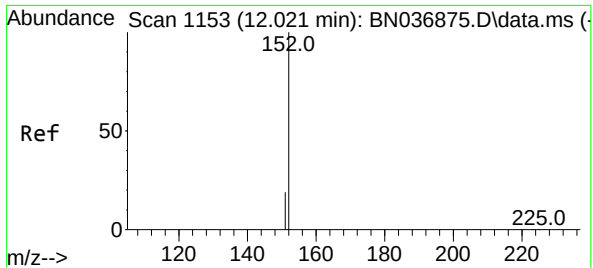
Tgt Ion:	136	Resp:	582
Ion	Ratio	Lower	Upper
136	100		
137	24.3	13.5	20.3#
54	26.5	12.8	19.2#
68	19.9	10.1	15.1#



#8
Nitrobenzene-d5
Concen: 0.402 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion:	82	Resp:	260
Ion	Ratio	Lower	Upper
82	100		
128	57.2	35.5	53.3#
54	76.3	56.2	84.4

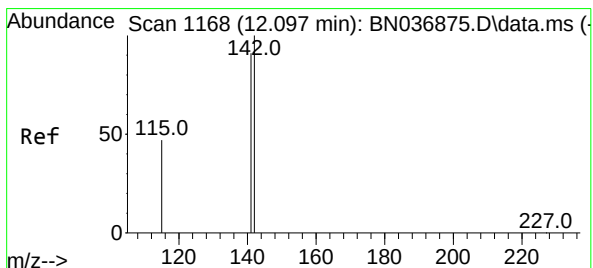
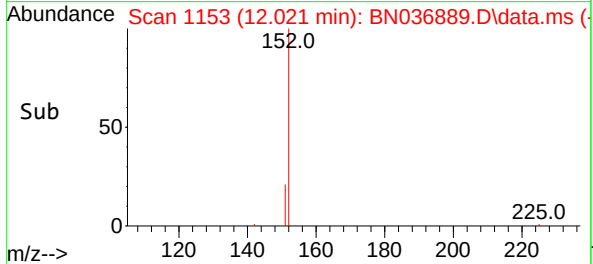
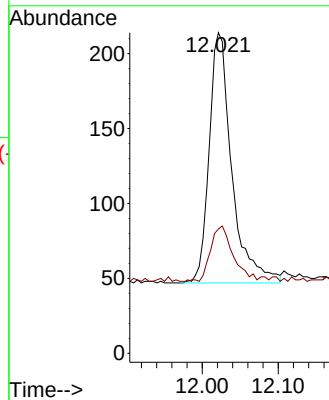
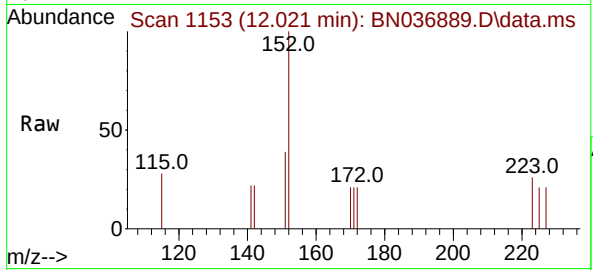




#11
2-Methylnaphthalene-d10
Concen: 0.409 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

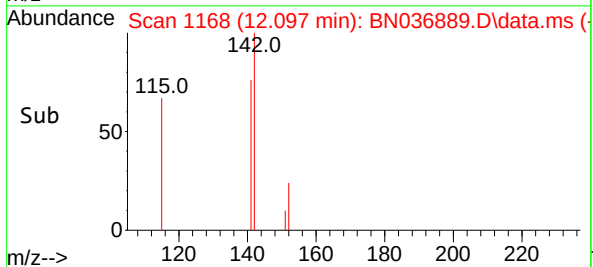
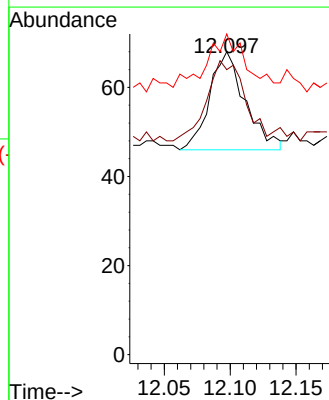
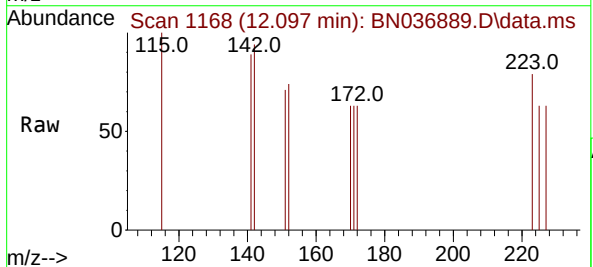
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

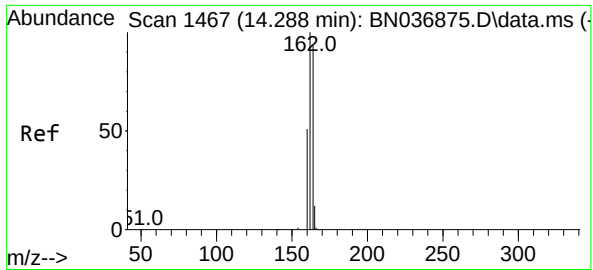
Tgt Ion:152 Resp: 346
Ion Ratio Lower Upper
152 100
151 22.3 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.038 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion:142 Resp: 41
Ion Ratio Lower Upper
142 100
141 94.1 73.8 110.8
115 105.9 43.3 64.9#

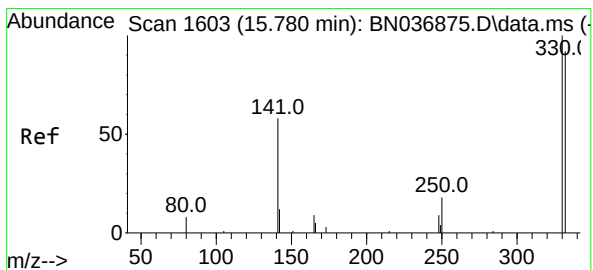
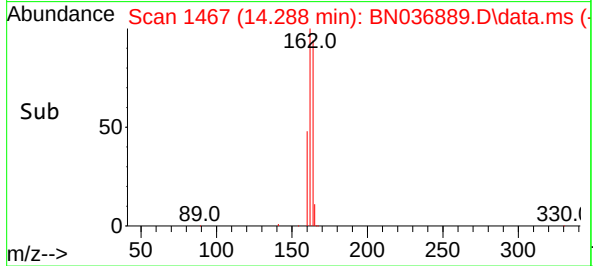
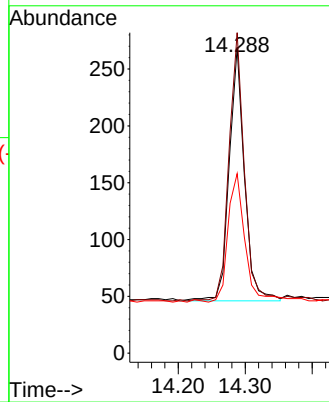
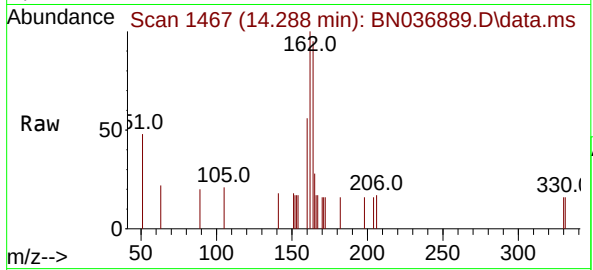




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

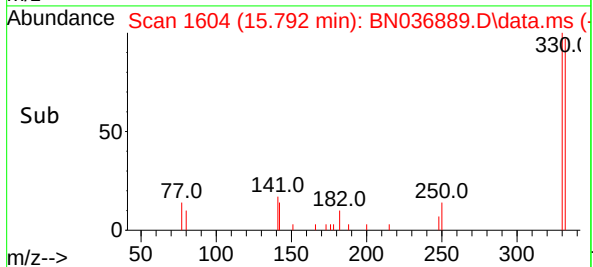
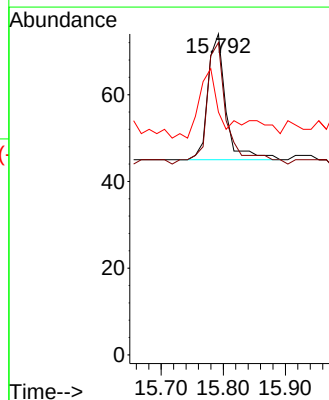
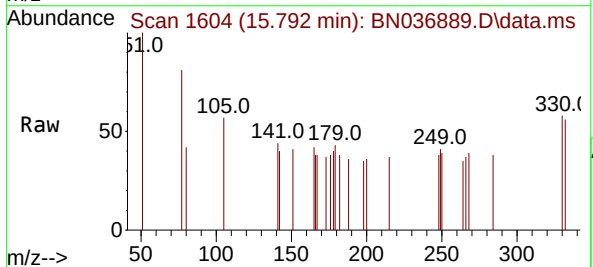
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

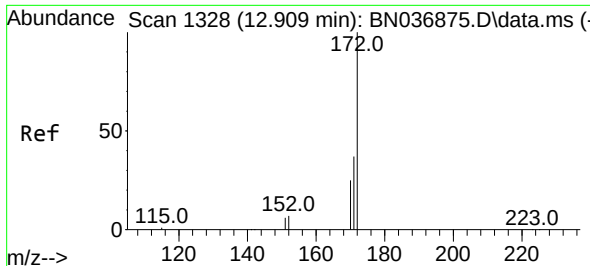
Tgt Ion:164 Resp: 355
Ion Ratio Lower Upper
164 100
162 104.8 85.7 128.5
160 58.7 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.792 min Scan# 1604
Delta R.T. 0.012 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion:330 Resp: 58
Ion Ratio Lower Upper
330 100
332 110.3 87.0 130.6
141 63.8 45.3 67.9





#15

2-Fluorobiphenyl

Concen: 0.431 ng

RT: 12.909 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036889.D

Acq: 11 Apr 2025 21:46

Instrument :

BNA_N

ClientSampleId :

BP-TT-190D2-GW-20250407

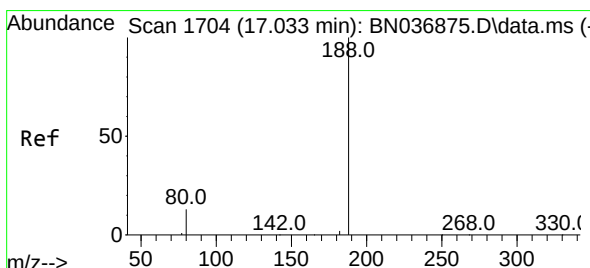
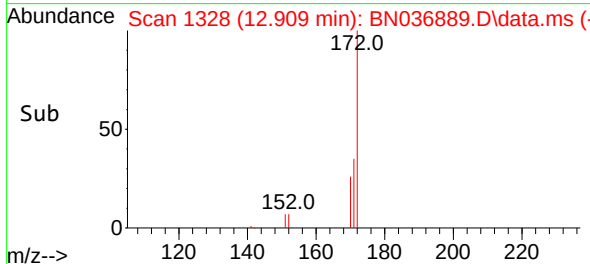
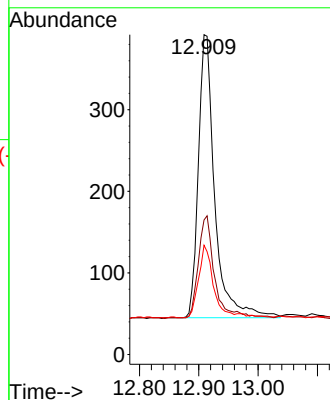
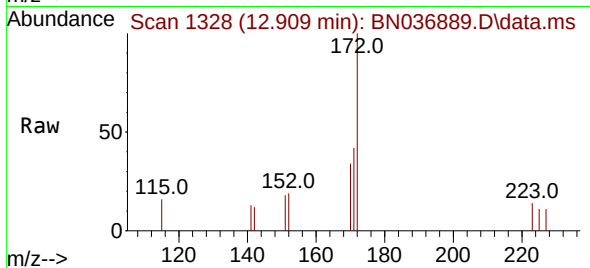
Tgt Ion:172 Resp: 734

Ion Ratio Lower Upper

172 100

171 42.1 32.7 49.1

170 34.2 23.3 34.9



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.033 min Scan# 1704

Delta R.T. 0.000 min

Lab File: BN036889.D

Acq: 11 Apr 2025 21:46

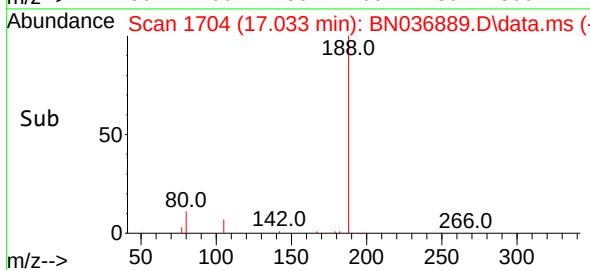
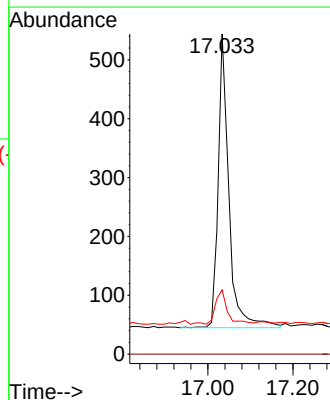
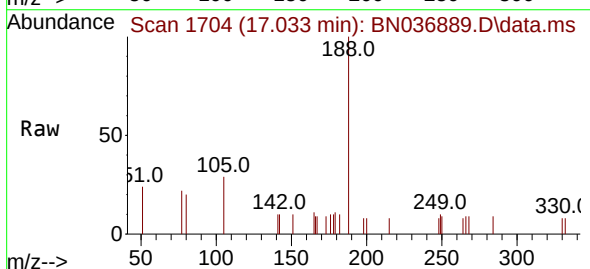
Tgt Ion:188 Resp: 872

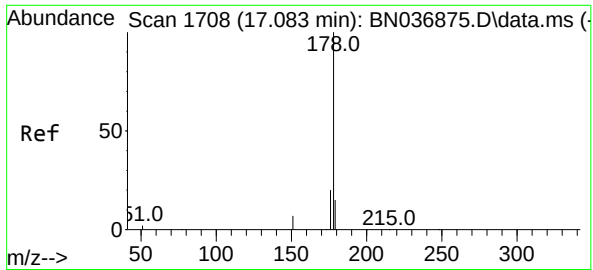
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 20.0 13.9 20.9

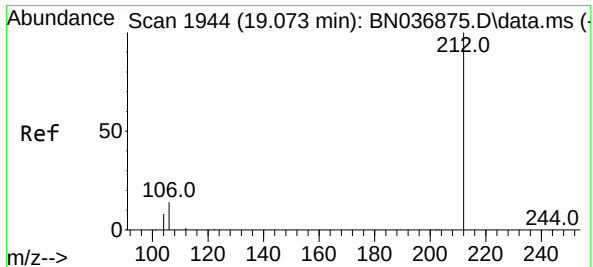
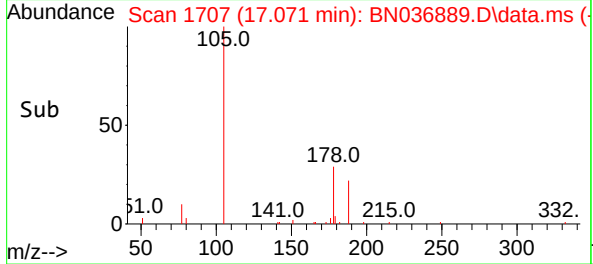
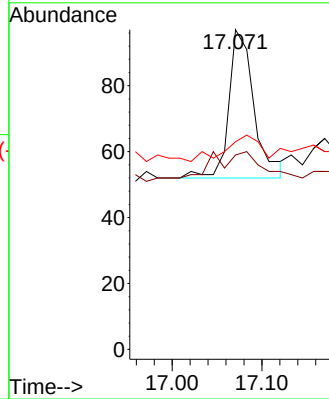
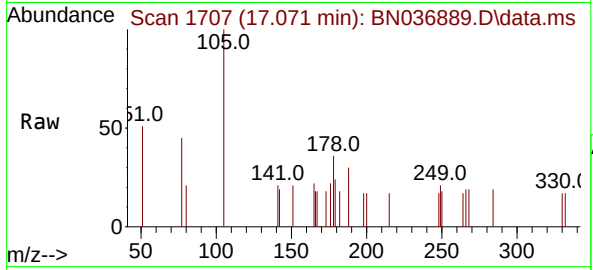




#25
Phenanthrene
Concen: 0.034 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

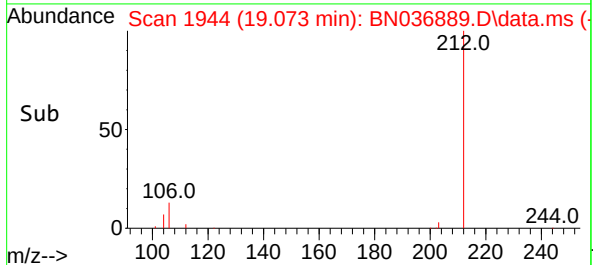
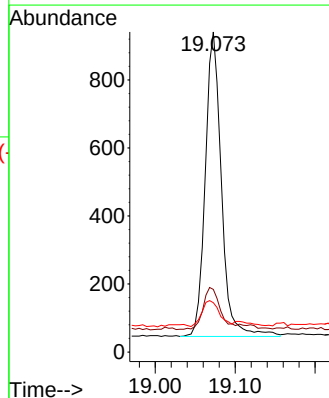
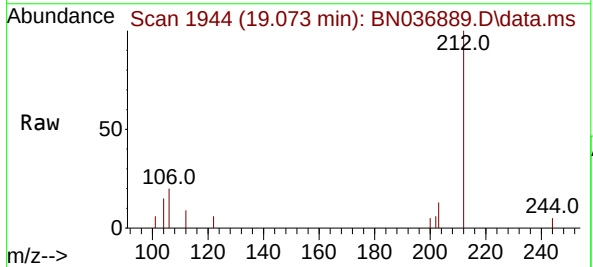
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

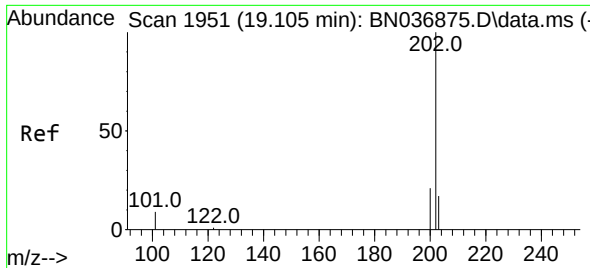
Tgt Ion:178 Resp: 88
Ion Ratio Lower Upper
178 100
176 0.0 16.6 25.0#
179 23.9 12.8 19.2#



#27
Fluoranthene-d10
Concen: 0.511 ng
RT: 19.073 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion:212 Resp: 1256
Ion Ratio Lower Upper
212 100
106 15.9 11.2 16.8
104 9.2 7.5 11.3

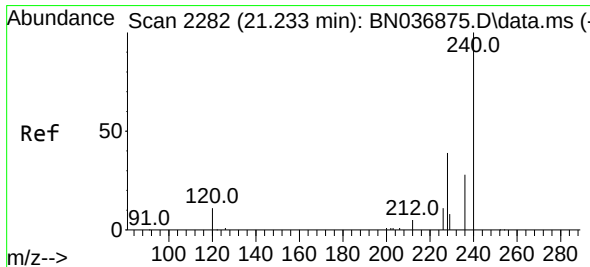
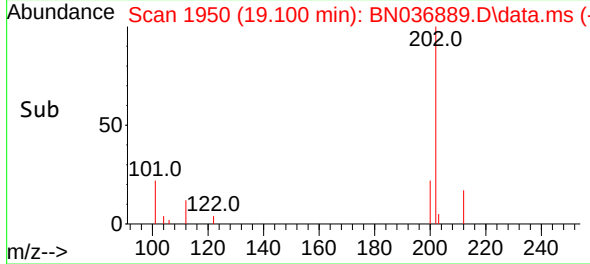
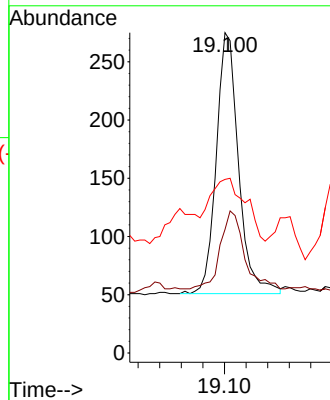
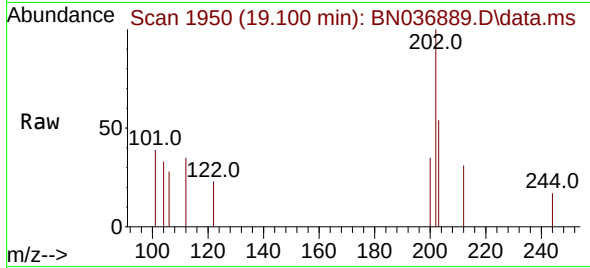




#28
Fluoranthene
Concen: 0.098 ng
RT: 19.100 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

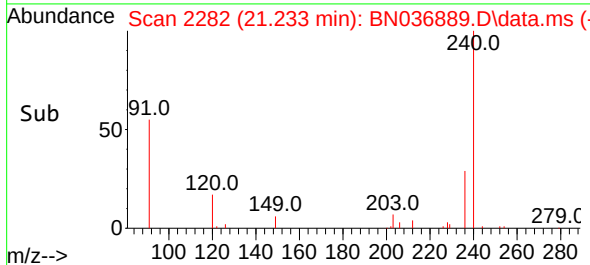
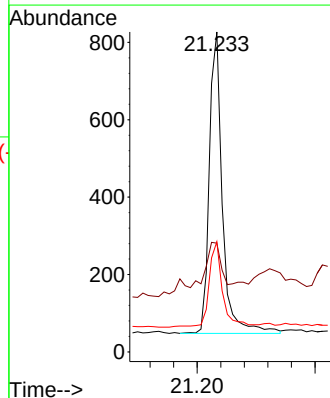
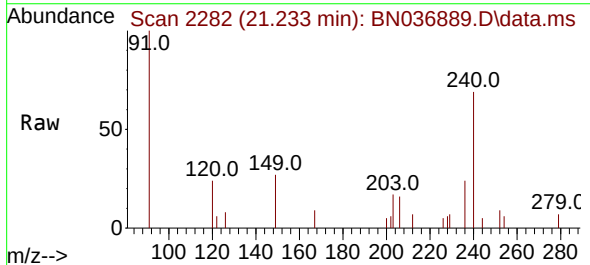
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

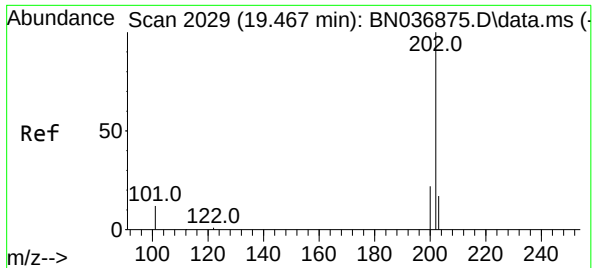
Tgt Ion:202 Resp: 321
Ion Ratio Lower Upper
202 100
101 33.6 8.5 12.7#
203 38.0 13.8 20.6#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.233 min Scan# 2282
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion:240 Resp: 1197
Ion Ratio Lower Upper
240 100
120 34.0 15.8 23.6#
236 34.5 25.8 38.8

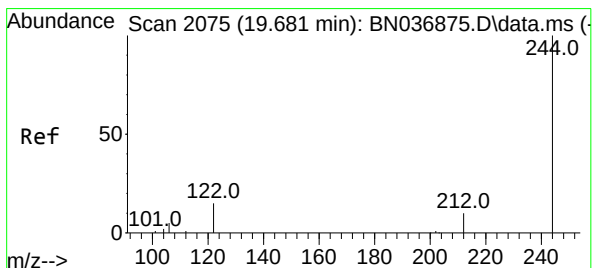
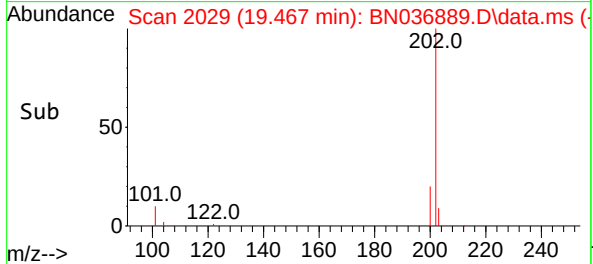
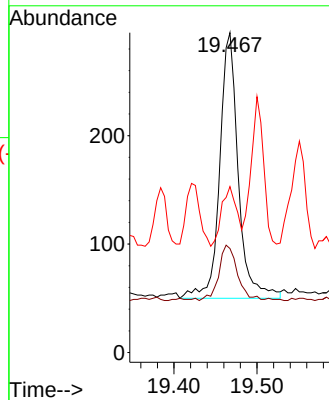
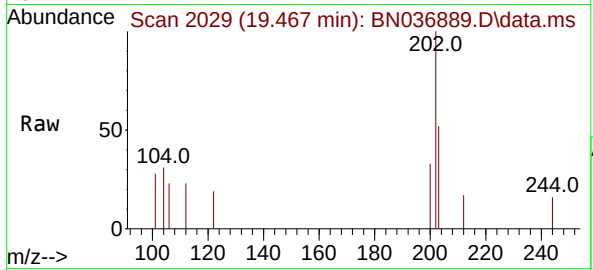




#30
Pyrene
Concen: 0.084 ng
RT: 19.467 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

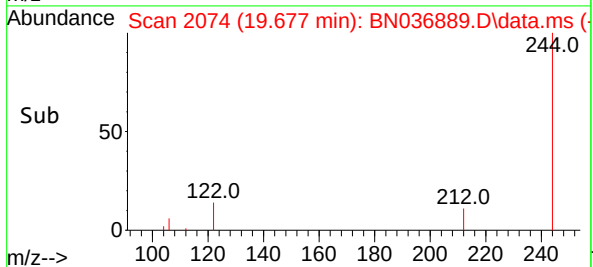
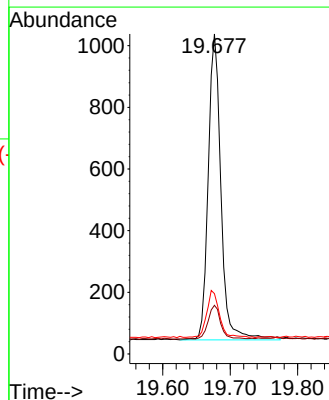
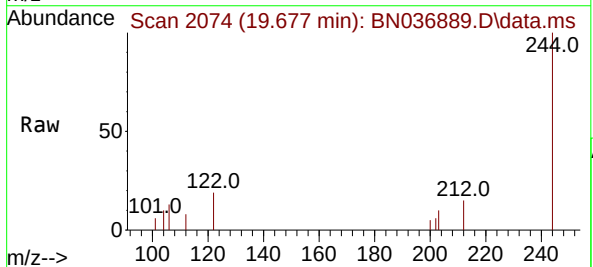
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

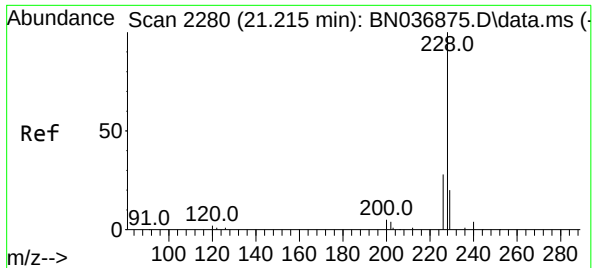
Tgt Ion:	202	Resp:	380
Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.1	25.7
203	18.2	14.5	21.7



#31
Terphenyl-d14
Concen: 0.573 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion:	244	Resp:	1304
Ion	Ratio	Lower	Upper
244	100		
212	15.2	11.6	17.4
122	18.9	14.9	22.3

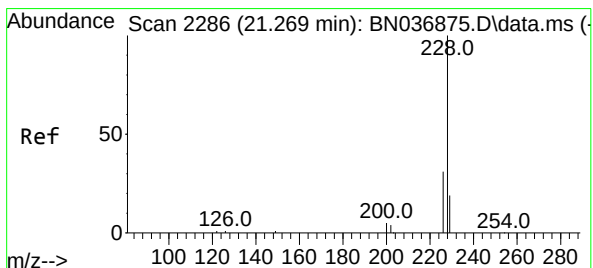
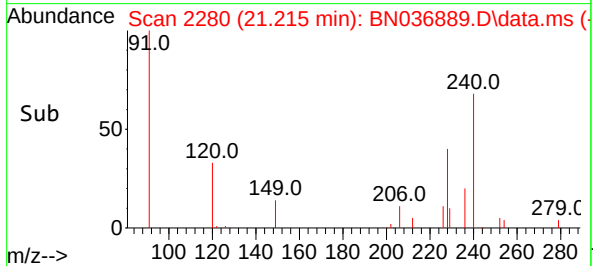
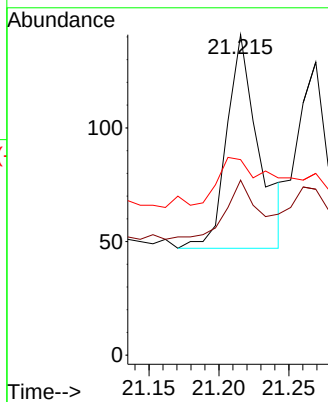
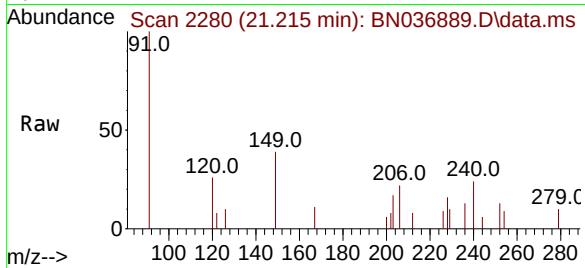




#32
Benzo(a)anthracene
Concen: 0.035 ng
RT: 21.215 min Scan# 2128
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

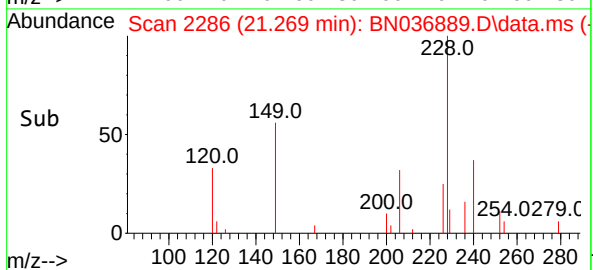
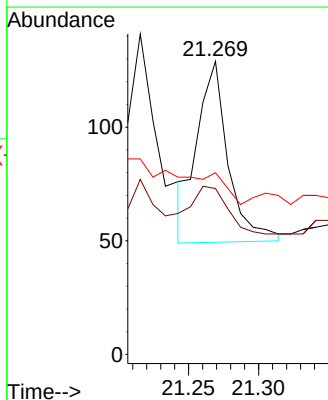
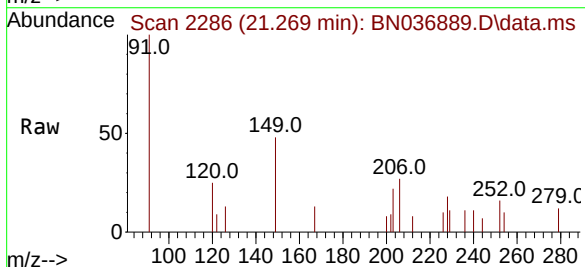
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

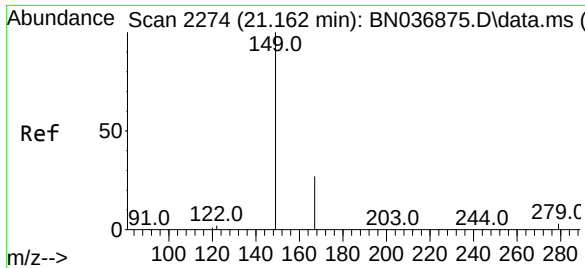
Tgt Ion	Ratio	Lower	Upper
228	100		
226	54.6	24.5	36.7#
229	61.0	17.7	26.5#



#33
Chrysene
Concen: 0.027 ng
RT: 21.269 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	56.6	26.1	39.1#
229	62.0	17.0	25.4#

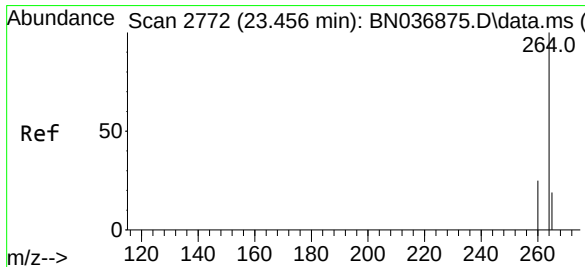
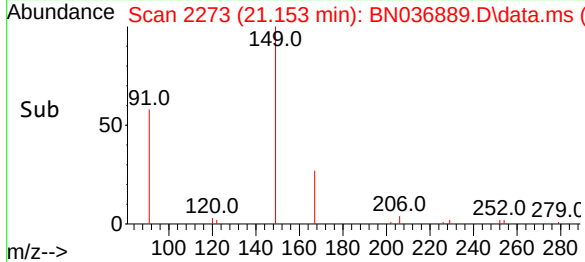
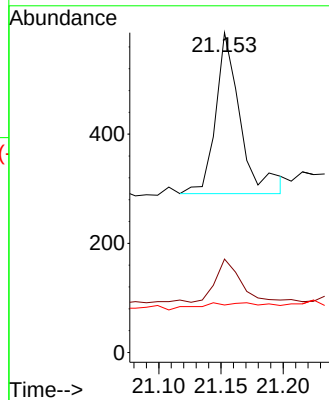
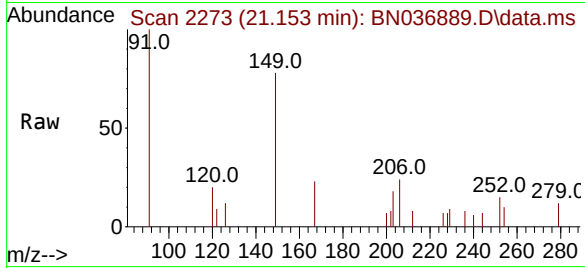




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.131 ng
RT: 21.153 min Scan# 2116
Delta R.T. -0.009 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

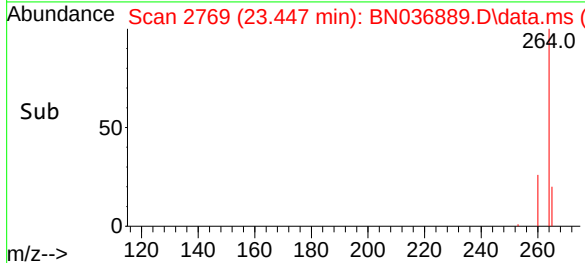
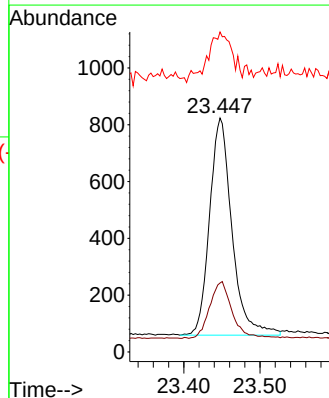
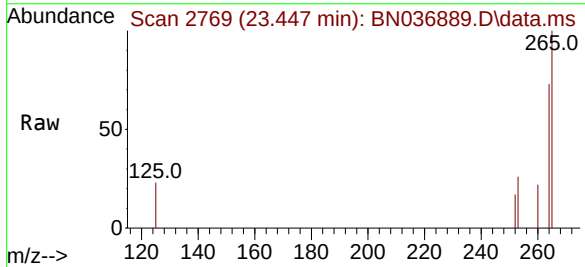
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D2-GW-20250407

Tgt Ion:149 Resp: 411
Ion Ratio Lower Upper
149 100
167 26.8 21.0 31.4
279 12.2 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.447 min Scan# 2769
Delta R.T. -0.009 min
Lab File: BN036889.D
Acq: 11 Apr 2025 21:46

Tgt Ion:264 Resp: 1560
Ion Ratio Lower Upper
264 100
260 29.5 22.9 34.3
265 136.8 88.6 132.8#



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	04/09/25
Project:	CTO WE13		Date Received:	04/10/25
Client Sample ID:	BP-TT190D1-GW-20250409		SDG No.:	Q1773
Lab Sample ID:	Q1773-03		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	980	Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036890.D	1	04/11/25 09:20	04/11/25 22:22	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2.10		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.47		30 - 150		117%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	423	7.64				
1146-65-2	Naphthalene-d8	1030	10.426				
15067-26-2	Acenaphthene-d10	590	14.288				
1517-22-2	Phenanthrene-d10	1360	17.033				
1719-03-5	Chrysene-d12	1640	21.233				
1520-96-3	Perylene-d12	2050	23.447				

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\BN041125\
Data File : BN036890.D
Acq On : 11 Apr 2025 22:22
Operator : RC/JU
Sample : Q1773-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

Quant Time: Apr 11 23:07:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

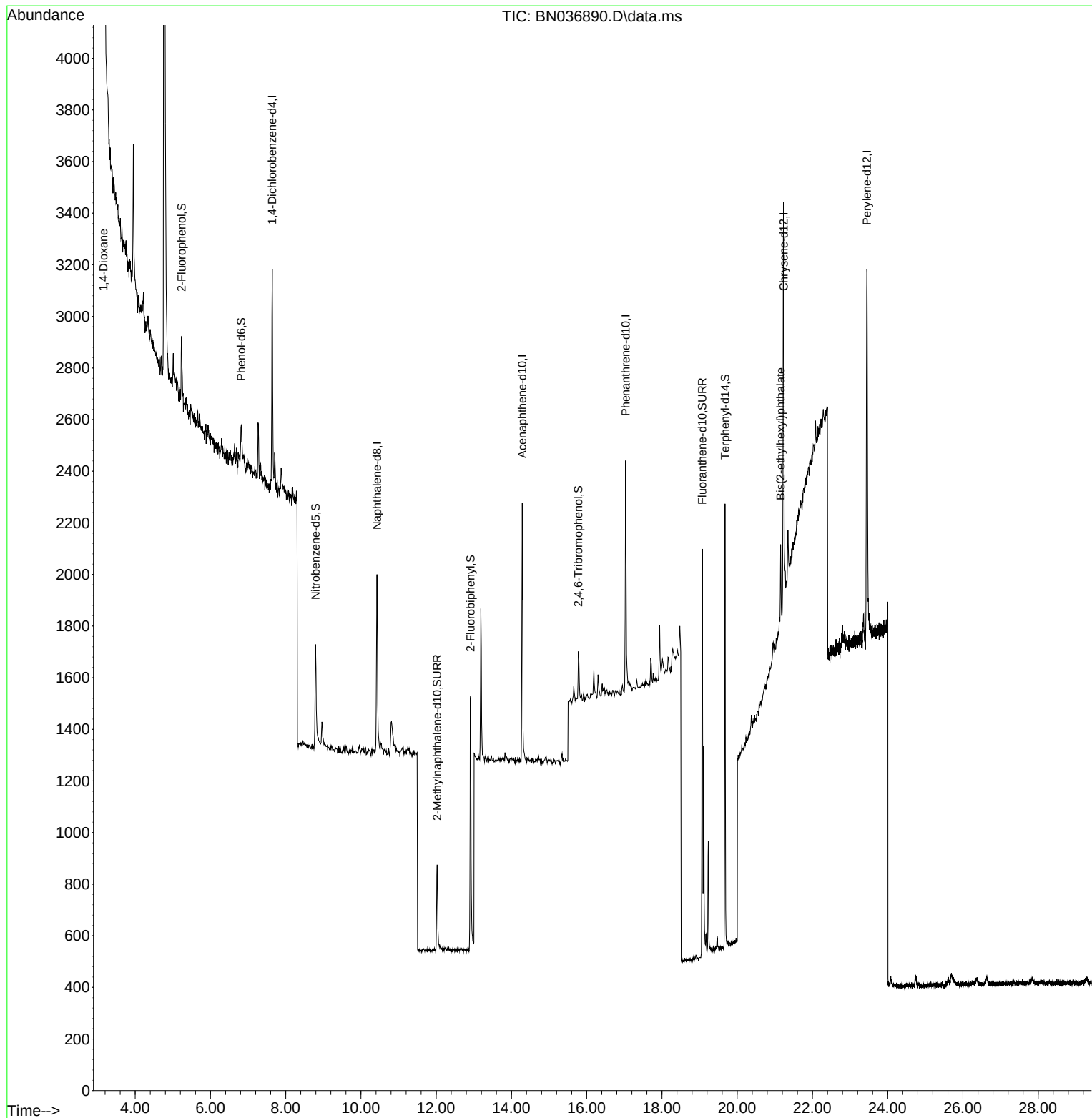
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	423	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	1033	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	590	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	1355	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1635	0.400	ng	0.00
35) Perylene-d12	23.447	264	2047	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	210	0.211	ng	0.00
5) Phenol-d6	6.816	99	149	0.117	ng	0.00
8) Nitrobenzene-d5	8.792	82	429	0.374	ng	0.00
11) 2-Methylnaphthalene-d10	12.026	152	577	0.384	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	131	0.461	ng	0.00
15) 2-Fluorobiphenyl	12.914	172	1119	0.395	ng	0.00
27) Fluoranthene-d10	19.072	212	1796	0.470	ng	0.00
31) Terphenyl-d14	19.676	244	1587	0.511	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	1001	2.041	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.153	149	303	0.071	ng	# 98

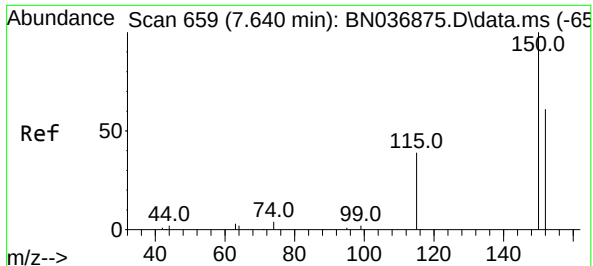
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036890.D
Acq On : 11 Apr 2025 22:22
Operator : RC/JU
Sample : Q1773-03
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

Quant Time: Apr 11 23:07:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

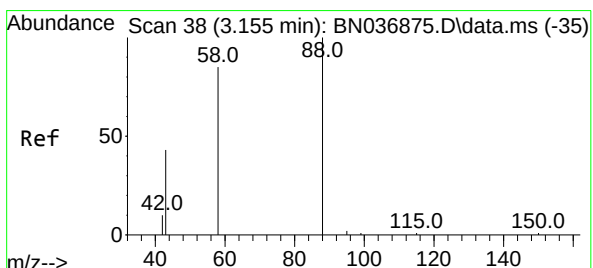
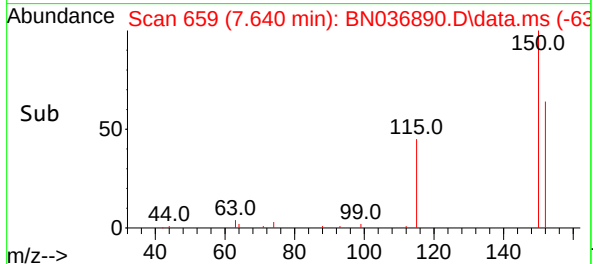
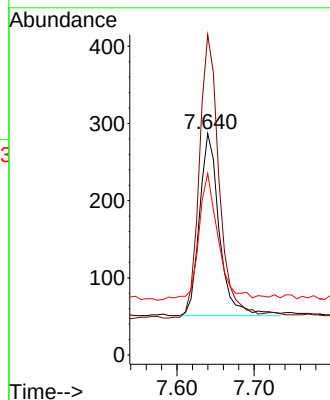
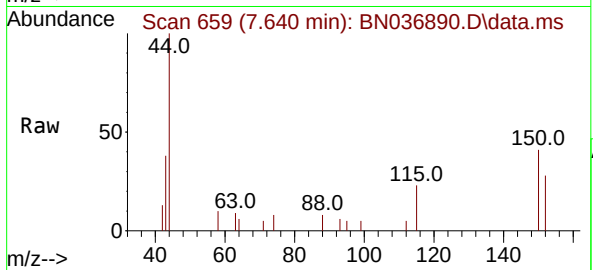




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

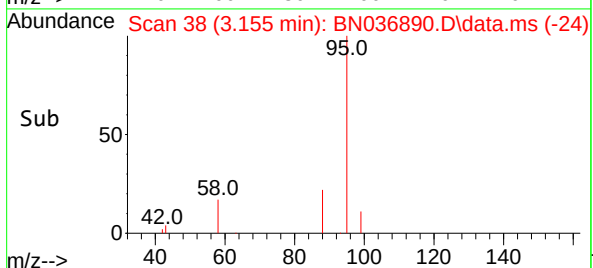
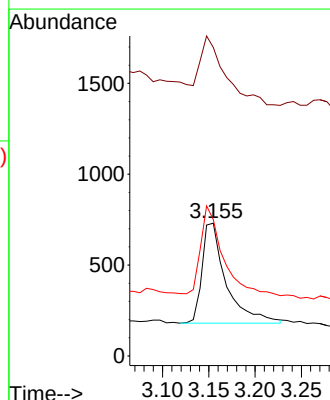
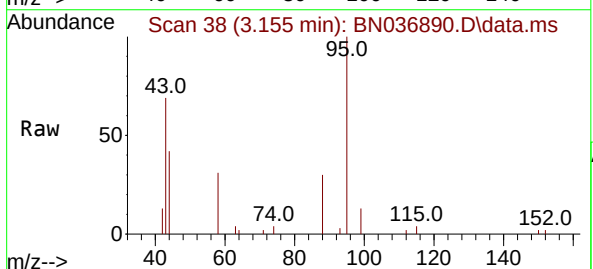
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

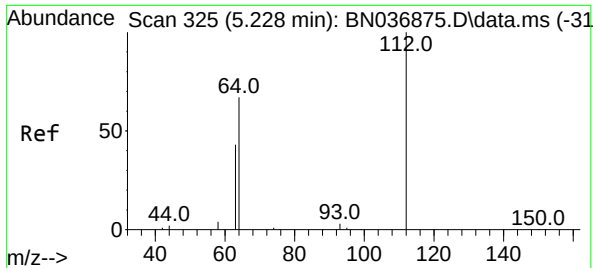
Tgt Ion:152 Resp: 423
Ion Ratio Lower Upper
152 100
150 144.6 123.0 184.6
115 81.9 60.1 90.1



#2
1,4-Dioxane
Concen: 2.041 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

Tgt Ion: 88 Resp: 1001
Ion Ratio Lower Upper
88 100
43 71.5 39.2 58.8#
58 82.9 63.5 95.3

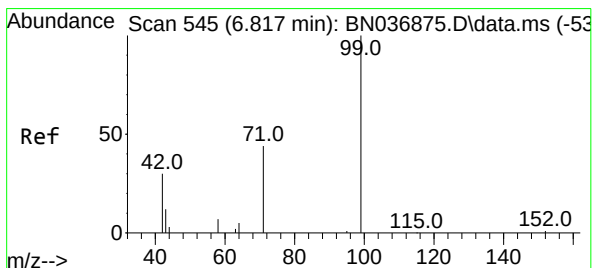
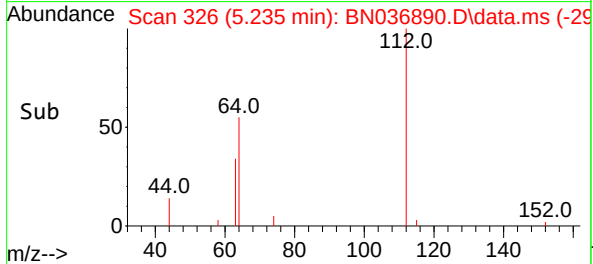
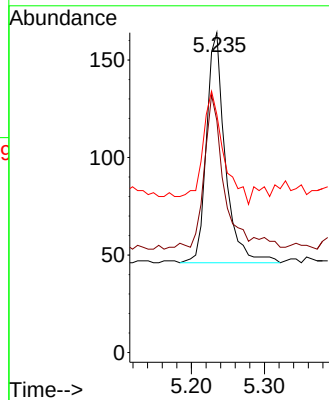
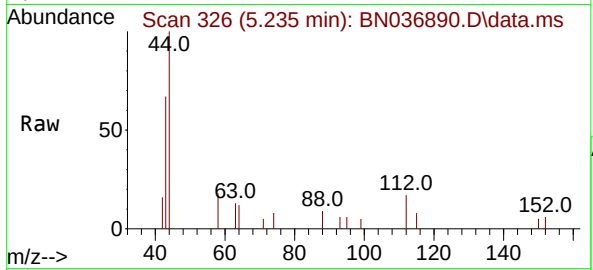




#4
2-Fluorophenol
Concen: 0.211 ng
RT: 5.235 min Scan# 31
Delta R.T. 0.007 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

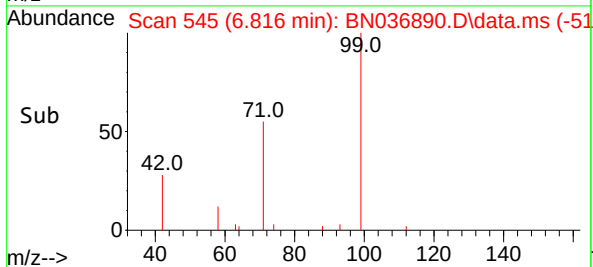
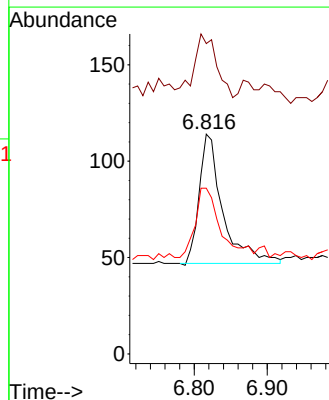
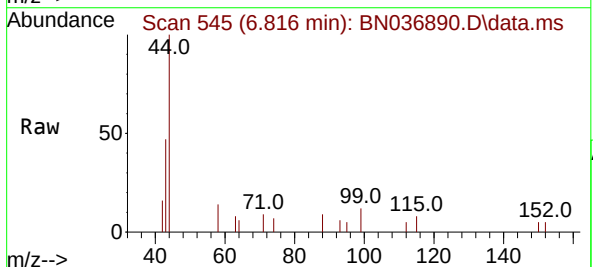
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

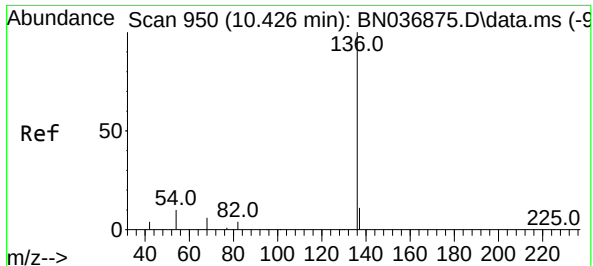
Tgt Ion:112 Resp: 210
Ion Ratio Lower Upper
112 100
64 71.0 54.0 81.0
63 55.2 35.1 52.7#



#5
Phenol-d6
Concen: 0.117 ng
RT: 6.816 min Scan# 545
Delta R.T. -0.000 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

Tgt Ion: 99 Resp: 149
Ion Ratio Lower Upper
99 100
42 47.7 30.9 46.3#
71 57.0 38.6 58.0

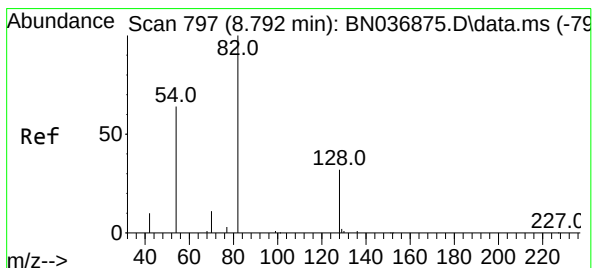
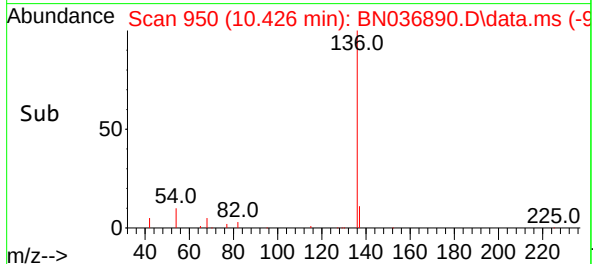
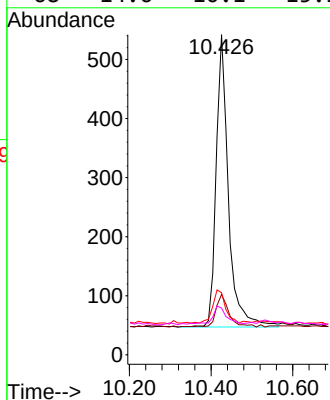
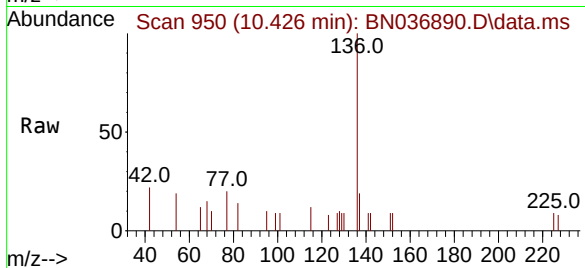




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

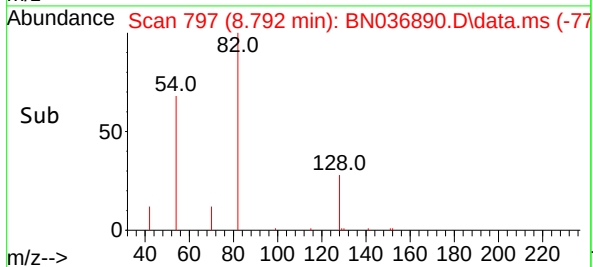
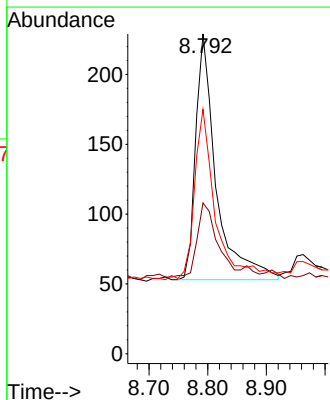
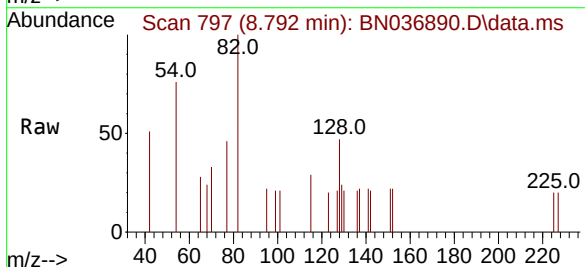
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

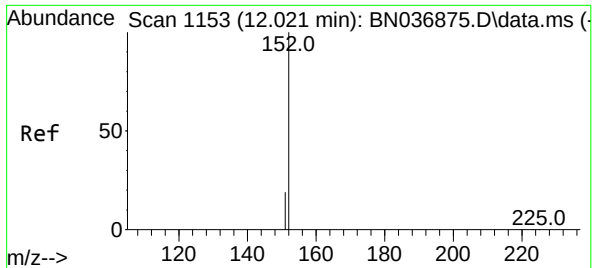
Tgt Ion:	136	Resp:	1033
Ion	Ratio	Lower	Upper
136	100		
137	18.8	13.5	20.3
54	19.4	12.8	19.2#
68	14.6	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.374 ng
RT: 8.792 min Scan# 797
Delta R.T. -0.000 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

Tgt Ion:	82	Resp:	429
Ion	Ratio	Lower	Upper
82	100		
128	47.2	35.5	53.3
54	76.4	56.2	84.4

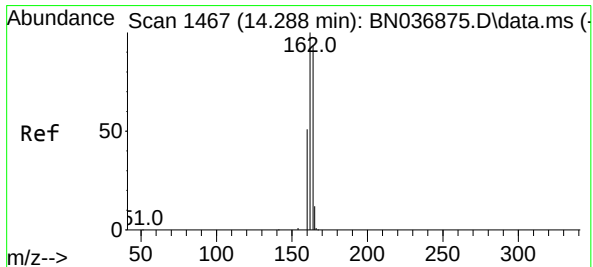
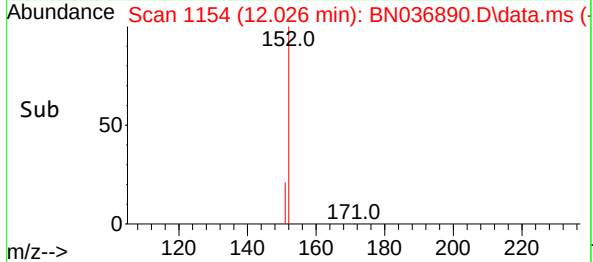
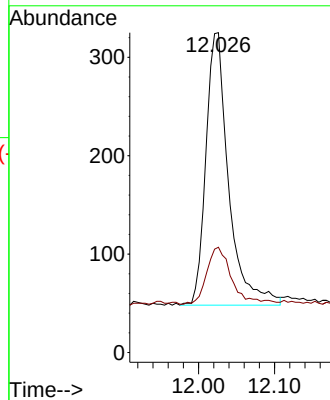
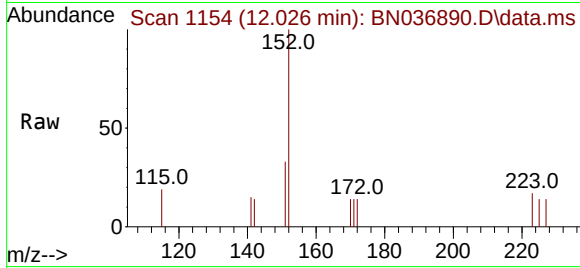




#11
2-Methylnaphthalene-d10
Concen: 0.384 ng
RT: 12.026 min Scan# 1153
Delta R.T. 0.005 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

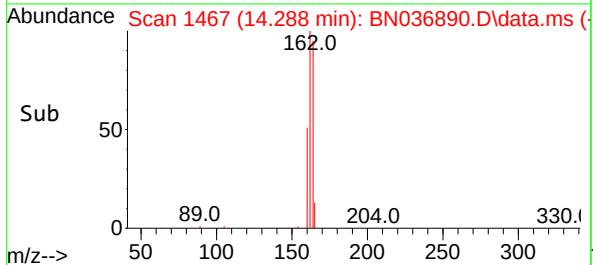
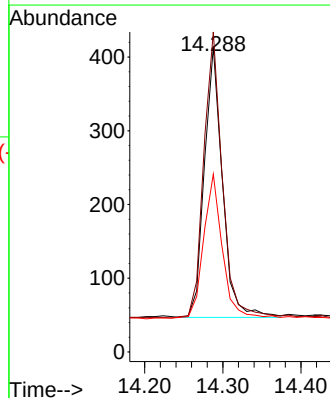
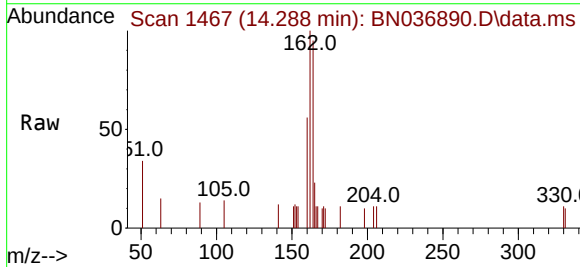
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

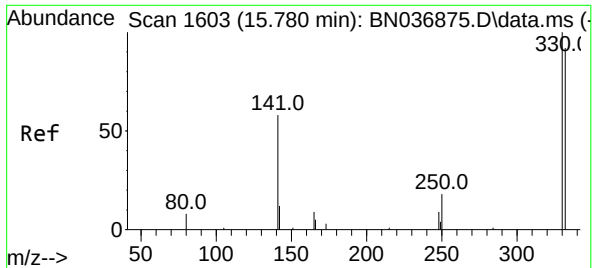
Tgt Ion:152 Resp: 577
Ion Ratio Lower Upper
152 100
151 22.9 17.8 26.8



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

Tgt Ion:164 Resp: 590
Ion Ratio Lower Upper
164 100
162 104.8 85.7 128.5
160 58.2 46.9 70.3

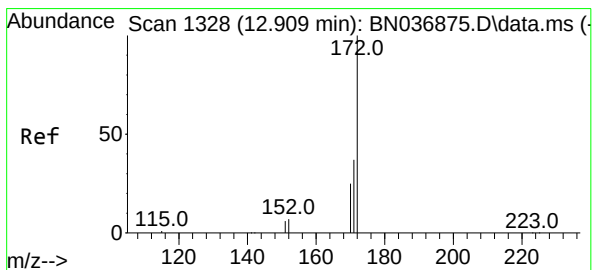
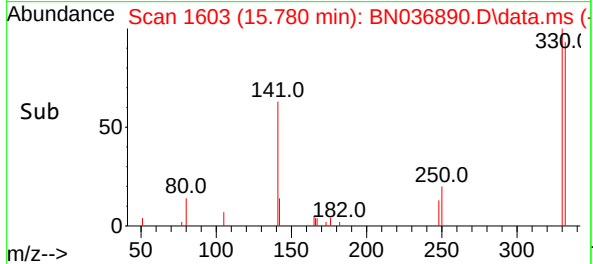
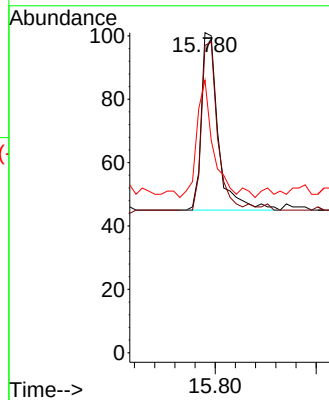
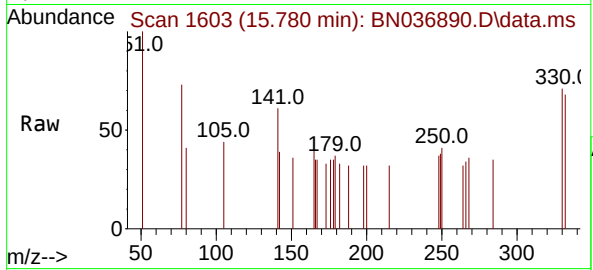




#14
2,4,6-Tribromophenol
Concen: 0.461 ng
RT: 15.780 min Scan# 1603
Delta R.T. -0.000 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

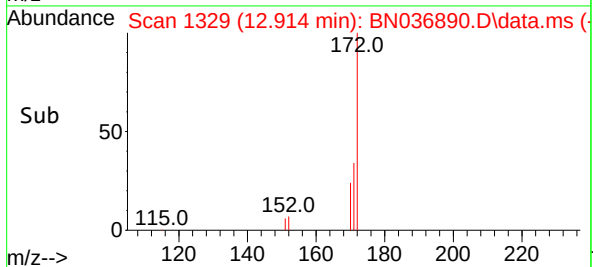
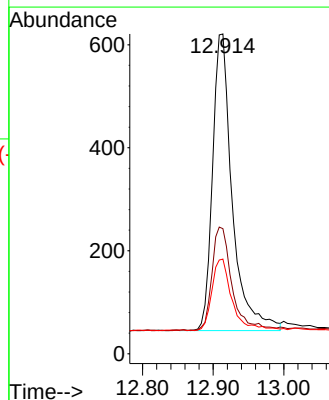
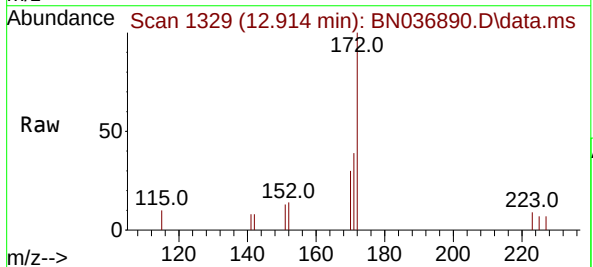
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

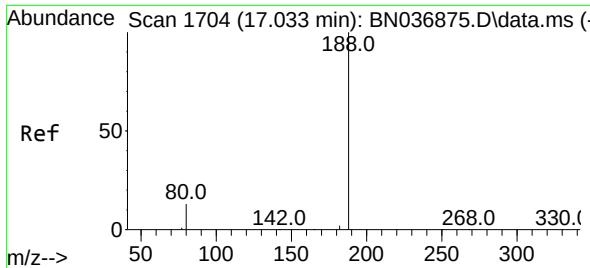
Tgt Ion:	330	Resp:	131
Ion	Ratio	Lower	Upper
330	100		
332	91.6	87.0	130.6
141	62.6	45.3	67.9



#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.914 min Scan# 1329
Delta R.T. 0.005 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

Tgt Ion:	172	Resp:	1119
Ion	Ratio	Lower	Upper
172	100		
171	39.1	32.7	49.1
170	29.6	23.3	34.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.033 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036890.D

Acq: 11 Apr 2025 22:22

Instrument :

BNA_N

ClientSampleId :

BP-TT-190D1-GW-20250409

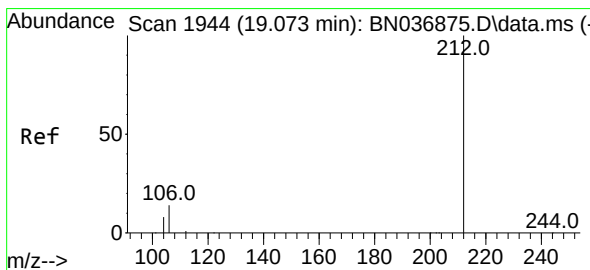
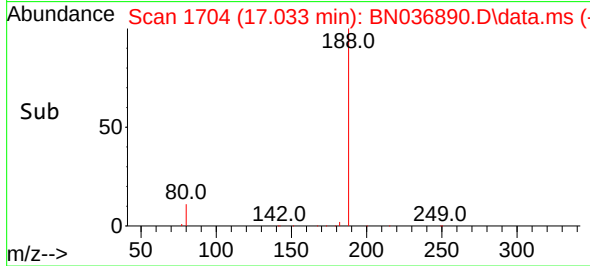
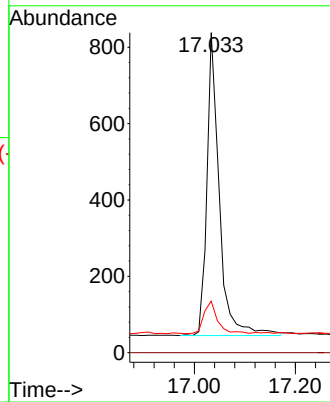
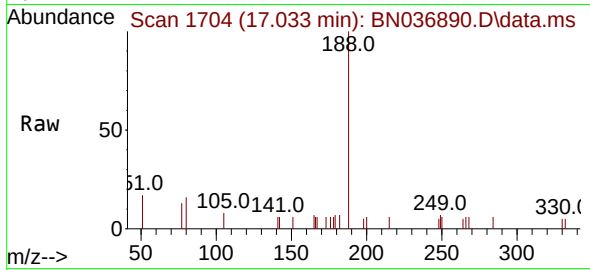
Tgt Ion:188 Resp: 1355

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.1 13.9 20.9



#27

Fluoranthene-d10

Concen: 0.470 ng

RT: 19.072 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BN036890.D

Acq: 11 Apr 2025 22:22

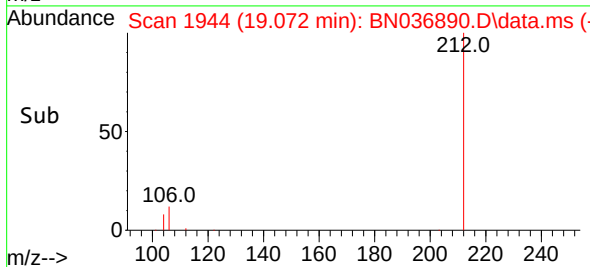
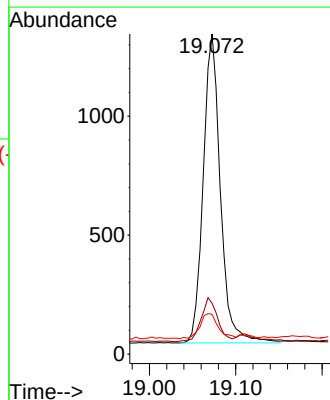
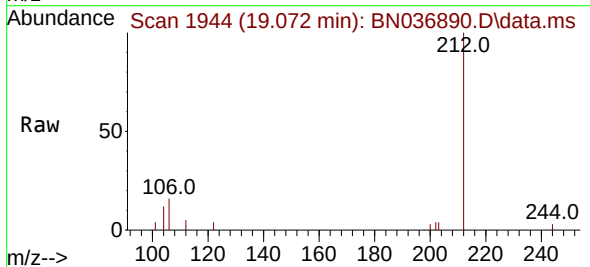
Tgt Ion:212 Resp: 1796

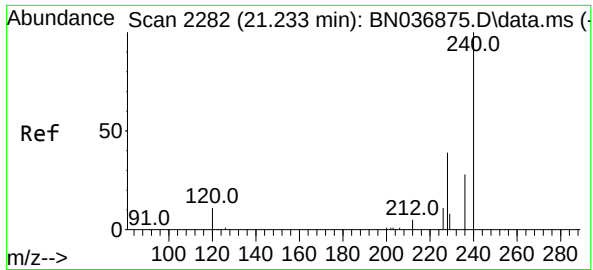
Ion Ratio Lower Upper

212 100

106 13.6 11.2 16.8

104 8.6 7.5 11.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036890.D

Acq: 11 Apr 2025 22:22

Instrument :

BNA_N

ClientSampleId :

BP-TT-190D1-GW-20250409

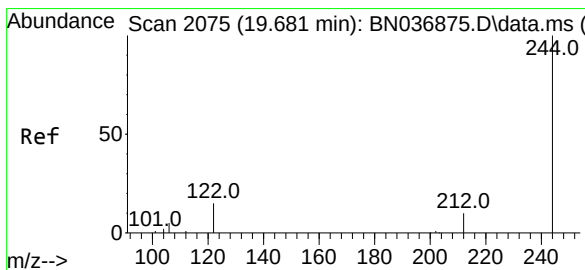
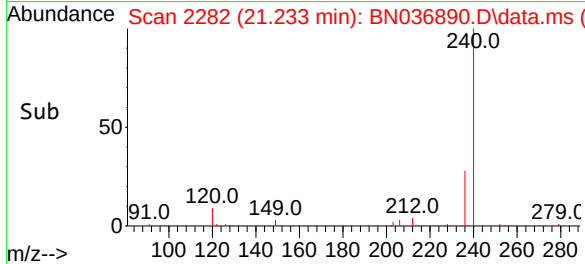
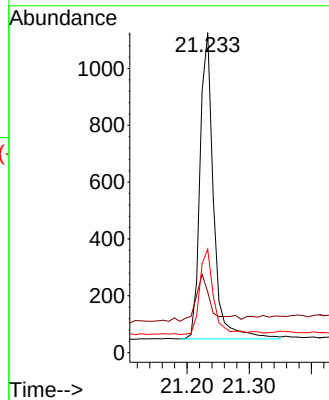
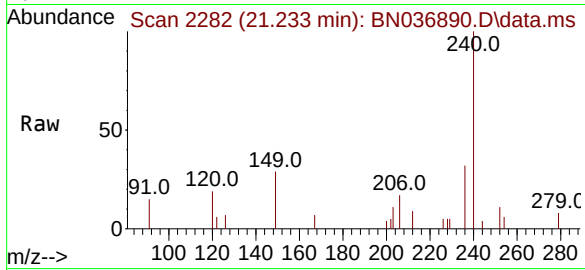
Tgt Ion:240 Resp: 1635

Ion Ratio Lower Upper

240 100

120 18.9 15.8 23.6

236 32.3 25.8 38.8



#31

Terphenyl-d14

Concen: 0.511 ng

RT: 19.676 min Scan# 2074

Delta R.T. -0.005 min

Lab File: BN036890.D

Acq: 11 Apr 2025 22:22

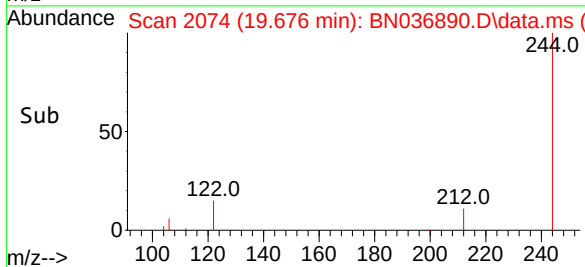
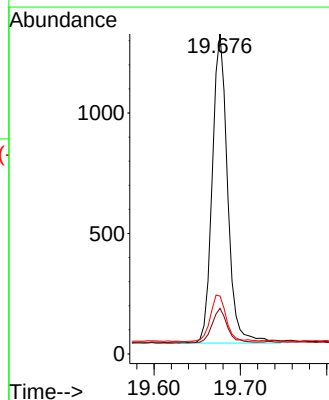
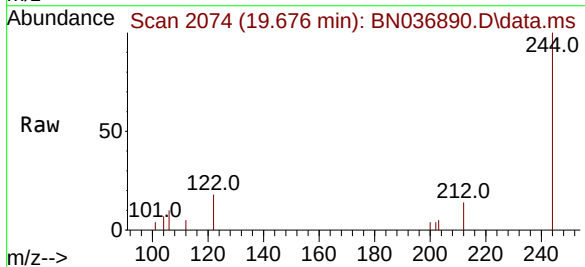
Tgt Ion:244 Resp: 1587

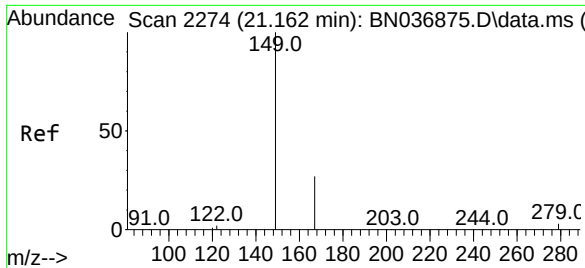
Ion Ratio Lower Upper

244 100

212 14.2 11.6 17.4

122 18.1 14.9 22.3

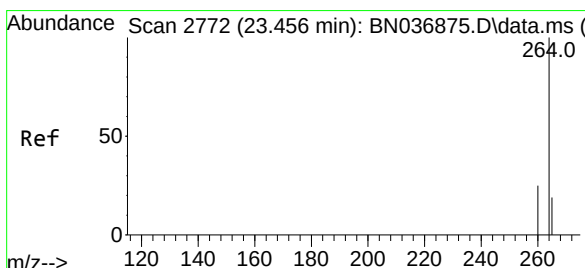
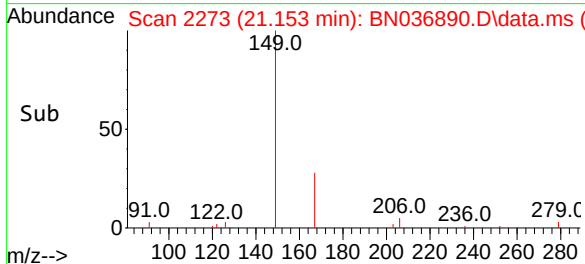
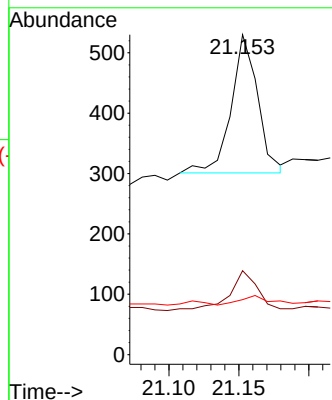
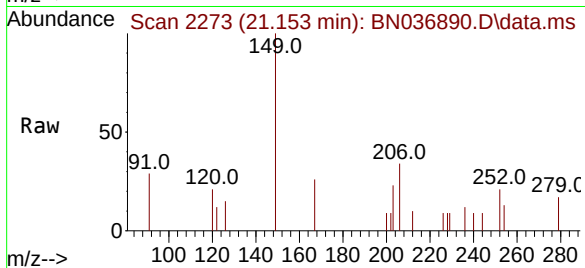




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.071 ng
RT: 21.153 min Scan# 2116
Delta R.T. -0.009 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

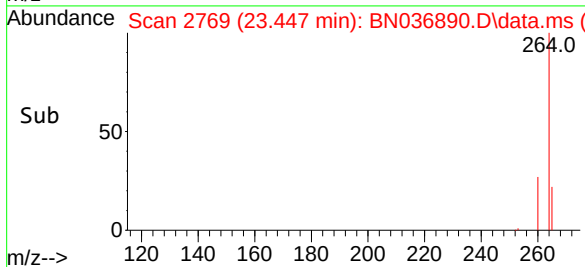
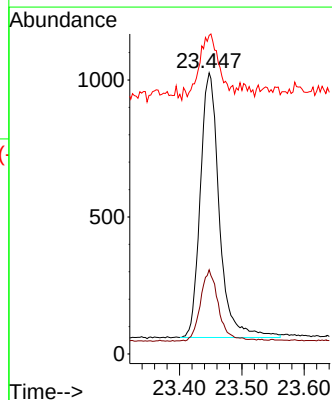
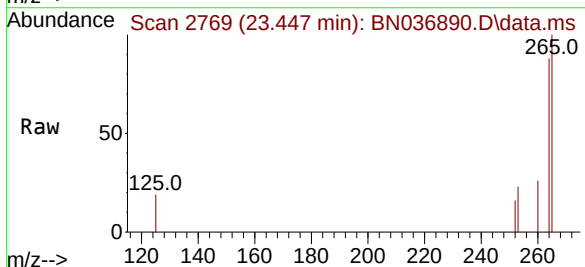
Instrument :
BNA_N
ClientSampleId :
BP-TT-190D1-GW-20250409

Tgt Ion:149 Resp: 303
Ion Ratio Lower Upper
149 100
167 26.1 21.0 31.4
279 7.9 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.447 min Scan# 2769
Delta R.T. -0.009 min
Lab File: BN036890.D
Acq: 11 Apr 2025 22:22

Tgt Ion:264 Resp: 2047
Ion Ratio Lower Upper
264 100
260 29.9 22.9 34.3
265 113.4 88.6 132.8





CALIBRATION SUMMARY

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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN041125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Apr 11 16:11:08 2025
Response Via : Initial Calibration

Calibration Files

0.1 =BN036873.D 0.2 =BN036874.D 0.4 =BN036875.D 0.8 =BN036876.D 1.6 =BN036877.D 3.2 =BN036878.D 5.0 =BN036879.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	0.588	0.440	0.411	0.455	0.471	0.417	0.464	14.02	
3)	n-Nitrosodimet...	1.024	1.092	1.084	0.971	1.022	1.058	0.943	1.028	5.43
4) S	2-Fluorophenol	1.000	0.941	0.965	0.920	0.892	0.981	0.888	0.941	4.61
5) S	Phenol-d6	1.315	1.199	1.198	1.134	1.147	1.263	1.166	1.203	5.40
6)	bis(2-Chloroet...	1.476	1.031	1.187	1.163	1.124	1.190	1.091	1.180	12.04
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.575	0.438	0.451	0.399	0.395	0.439	0.411	0.444	13.86
9)	Naphthalene	1.336	1.141	1.170	1.079	1.072	1.176	1.080	1.151	8.09
10)	Hexachlorobuta...	0.300	0.261	0.284	0.247	0.240	0.261	0.235	0.261	9.11
11) SURR2	Methylnaphth...	0.600	0.564	0.594	0.554	0.572	0.616	0.571	0.582	3.78
12)	2-Methylnaphth...	0.803	0.703	0.759	0.704	0.711	0.784	0.724	0.741	5.50
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.215	0.188	0.183	0.187	0.185	0.202	0.191	0.193	5.97
15) S	2-Fluorobiphenyl	2.063	1.860	2.013	1.697	1.897	2.083	1.833	1.921	7.28
16)	Acenaphthylene	1.959	1.808	1.891	1.744	1.750	1.995	1.861	1.858	5.25
17)	Acenaphthene	1.227	1.175	1.234	1.162	1.152	1.316	1.205	1.210	4.65
18)	Fluorene	1.695	1.698	1.694	1.566	1.593	1.780	1.657	1.669	4.29
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.081	0.084	0.095	0.092	0.092	0.116	0.102	0.095	12.46
21)	4-Bromophenyl-...	0.239	0.230	0.260	0.229	0.230	0.258	0.231	0.240	5.77
22)	Hexachlorobenzene	0.308	0.293	0.310	0.262	0.261	0.288	0.263	0.284	7.64
23)	Atrazine	0.237	0.233	0.263	0.221	0.223	0.245	0.218	0.234	6.76
24)	Pentachlorophenol	0.153	0.154	0.162	0.130	0.134	0.160	0.149	0.149	8.32
25)	Phenanthrene	1.233	1.093	1.298	1.139	1.149	1.300	1.183	1.199	6.70
26)	Anthracene	1.033	0.999	1.150	0.991	1.036	1.182	1.094	1.069	6.97
27) SURR	Fluoranthene-d10	1.100	1.059	1.221	1.044	1.091	1.226	1.148	1.127	6.53
28)	Fluoranthene	1.448	1.405	1.606	1.395	1.463	1.677	1.570	1.509	7.21
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.488	1.512	1.604	1.477	1.469	1.582	1.451	1.512	3.88
31) S	Terphenyl-d14	0.743	0.751	0.815	0.741	0.739	0.802	0.730	0.760	4.45
32)	Benzo(a)anthra...	1.361	1.371	1.410	1.354	1.402	1.552	1.443	1.413	4.87
33)	Chrysene	1.436	1.567	1.669	1.519	1.553	1.641	1.517	1.558	5.06
34)	Bis(2-ethylhex...	1.205	1.197	1.023	0.957	0.990	1.022	0.947	1.049	10.29
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN041125.M

36)	Indeno(1,2,3-c...	1.781	1.803	2.021	1.816	1.925	2.099	1.919	1.909	6.24
37)	Benzo(b)fluora...	1.373	1.278	1.523	1.355	1.376	1.572	1.456	1.419	7.26
38)	Benzo(k)fluora...	1.486	1.302	1.482	1.370	1.384	1.545	1.452	1.432	5.83
39) C	Benzo(a)pyrene	1.121	1.154	1.345	1.204	1.226	1.378	1.279	1.244	7.66
40)	Dibenzo(a,h)an...	1.331	1.416	1.585	1.487	1.560	1.680	1.552	1.516	7.61
41)	Benzo(g,h,i)pe...	1.646	1.673	1.805	1.634	1.724	1.835	1.678	1.714	4.59

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036873.D
 Acq On : 11 Apr 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Apr 11 15:34:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:32:59 2025
 Response via : Initial Calibration

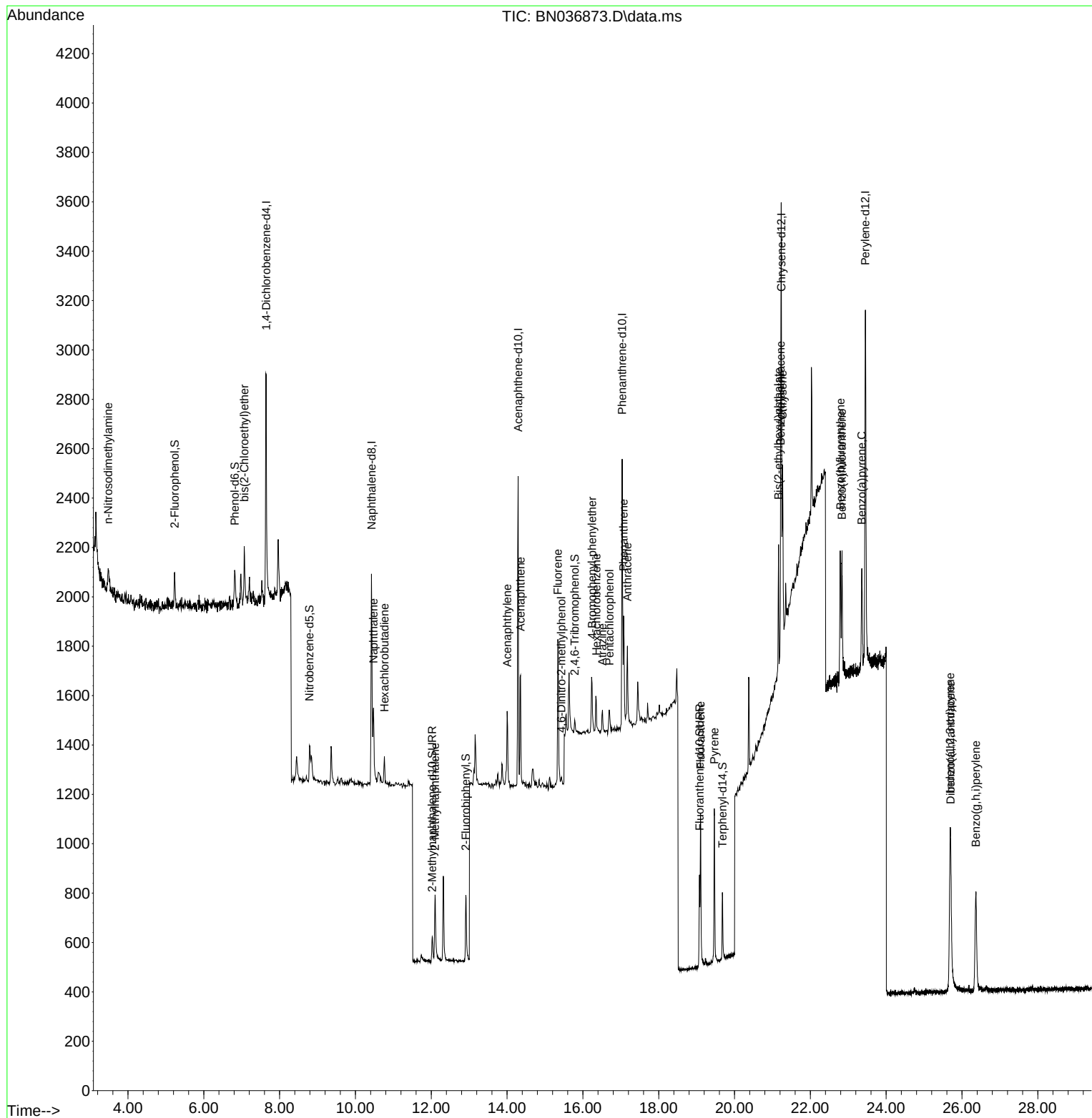
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.645	152	496	0.400	ng	0.00
7) Naphthalene-d8	10.424	136	1266	0.400	ng	# 0.00
13) Acenaphthene-d10	14.291	164	727	0.400	ng	0.00
19) Phenanthrene-d10	17.037	188	1622	0.400	ng	0.00
29) Chrysene-d12	21.232	240	1643	0.400	ng	0.00
35) Perylene-d12	23.452	264	2037	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.233	112	124	0.105	ng	0.00
5) Phenol-d6	6.814	99	163	0.109	ng	0.00
8) Nitrobenzene-d5	8.790	82	182	0.128	ng	0.00
11) 2-Methylnaphthalene-d10	12.025	152	190	0.103	ng	0.00
14) 2,4,6-Tribromophenol	15.783	330	39	0.111	ng	0.00
15) 2-Fluorobiphenyl	12.912	172	375	0.107	ng	0.00
27) Fluoranthene-d10	19.076	212	446	0.098	ng	0.00
31) Terphenyl-d14	19.680	244	305	0.097	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.478	42	127	0.098	ng	# 68
6) bis(2-Chloroethyl)ether	7.067	93	183	0.123	ng	88
9) Naphthalene	10.477	128	423	0.115	ng	# 75
10) Hexachlorobutadiene	10.765	225	95	0.113	ng	# 91
12) 2-Methylnaphthalene	12.101	142	254	0.108	ng	# 93
16) Acenaphthylene	14.003	152	356	0.105	ng	# 96
17) Acenaphthene	14.356	154	223	0.101	ng	98
18) Fluorene	15.339	166	308	0.101	ng	98
20) 4,6-Dinitro-2-methylph...	15.435	198	33	0.087	ng	# 18
21) 4-Bromophenyl-phenylether	16.243	248	97	0.099	ng	# 91
22) Hexachlorobenzene	16.354	284	125	0.107	ng	95
23) Atrazine	16.516	200	96	0.100	ng	# 68
24) Pentachlorophenol	16.702	266	62	0.103	ng	# 85
25) Phenanthrene	17.074	178	500	0.103	ng	99
26) Anthracene	17.173	178	419	0.097	ng	98
28) Fluoranthene	19.104	202	587	0.097	ng	98
30) Pyrene	19.466	202	611	0.098	ng	99
32) Benzo(a)anthracene	21.214	228	559	0.097	ng	# 83
33) Chrysene	21.268	228	590	0.092	ng	# 89
34) Bis(2-ethylhexyl)phtha...	21.161	149	495	0.113	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.686	276	907	0.093	ng	# 88
37) Benzo(b)fluoranthene	22.791	252	699	0.097	ng	# 54
38) Benzo(k)fluoranthene	22.832	252	757m	0.105	ng	
39) Benzo(a)pyrene	23.356	252	571	0.091	ng	# 53
40) Dibenzo(a,h)anthracene	25.703	278	678	0.088	ng	# 54
41) Benzo(g,h,i)perylene	26.367	276	838	0.096	ng	# 80

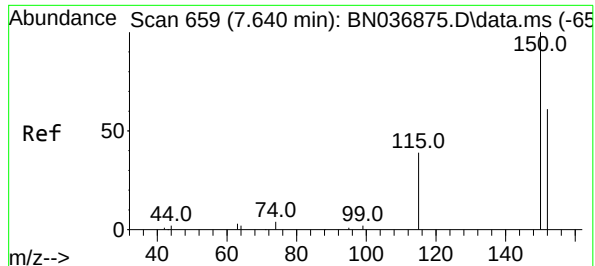
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036873.D
Acq On : 11 Apr 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Apr 11 15:34:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

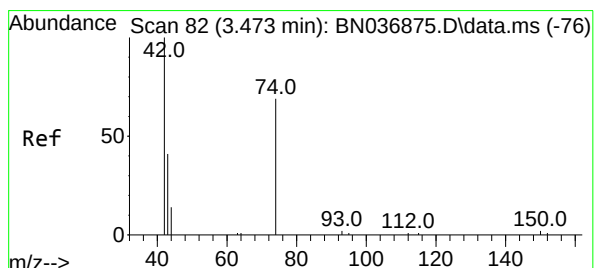
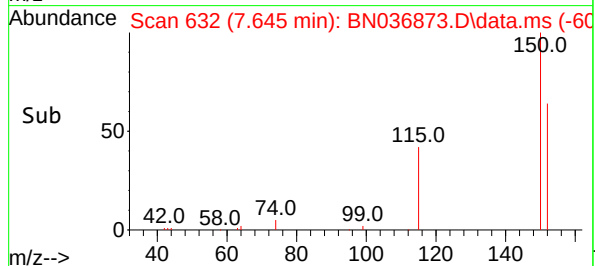
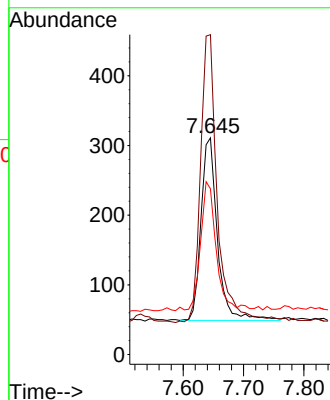
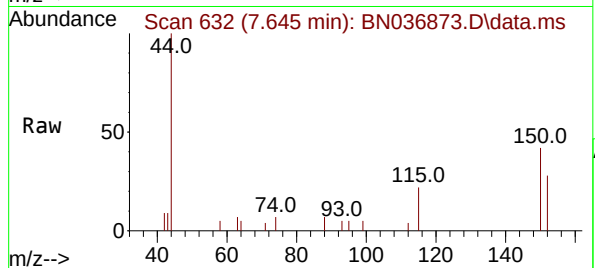




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.645 min Scan# 61
Delta R.T. 0.005 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

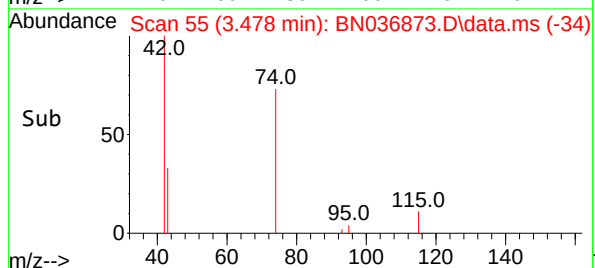
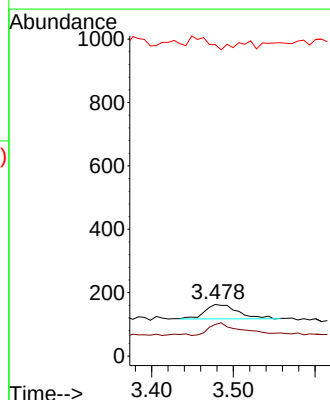
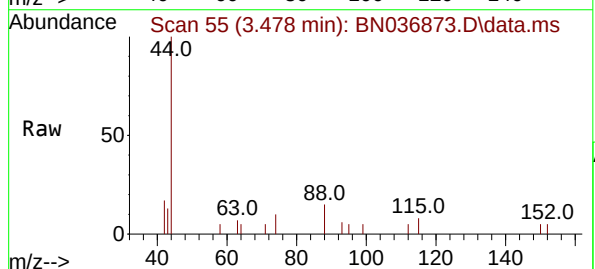
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

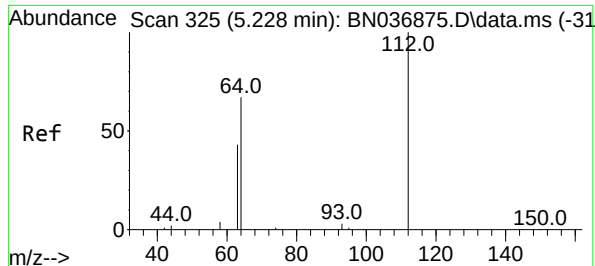
Tgt Ion:152 Resp: 496
Ion Ratio Lower Upper
152 100
150 147.6 123.0 184.6
115 76.5 60.1 90.1



#3
n-Nitrosodimethylamine
Concen: 0.098 ng
RT: 3.478 min Scan# 55
Delta R.T. 0.005 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion: 42 Resp: 127
Ion Ratio Lower Upper
42 100
74 94.5 54.6 81.8#
44 0.0 0.0 0.0





#4

2-Fluorophenol

Concen: 0.105 ng

RT: 5.233 min Scan# 24

Delta R.T. 0.005 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

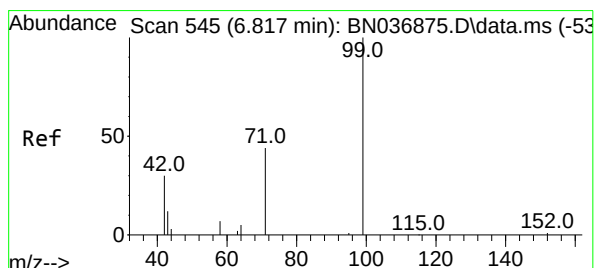
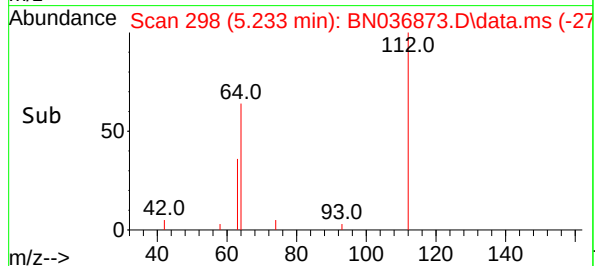
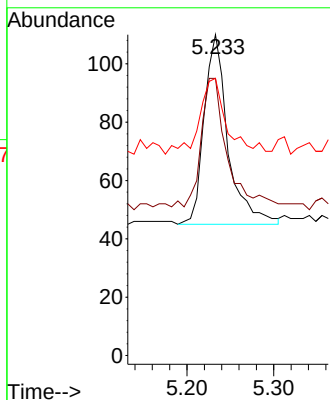
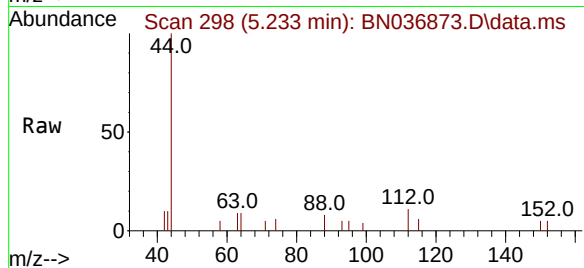
Tgt Ion:112 Resp: 124

Ion Ratio Lower Upper

112 100

64 81.5 54.0 81.0#

63 46.0 35.1 52.7



#5

Phenol-d6

Concen: 0.109 ng

RT: 6.814 min Scan# 517

Delta R.T. -0.002 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

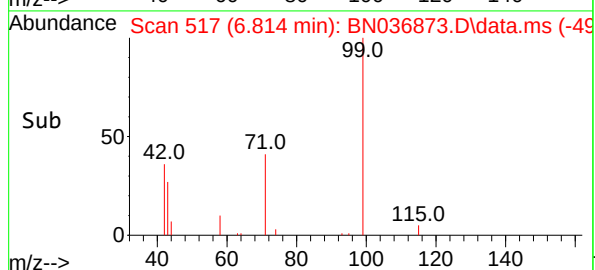
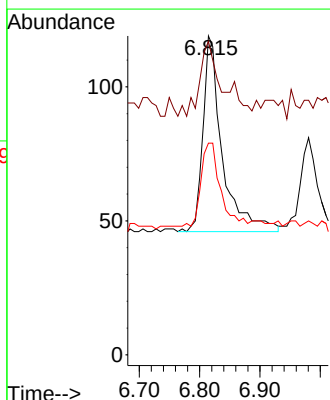
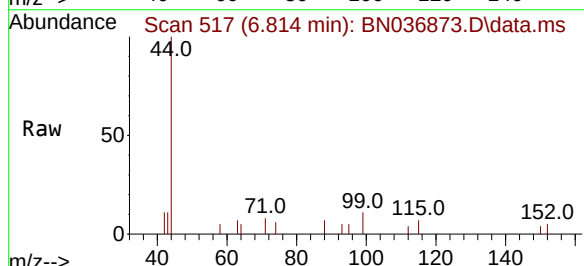
Tgt Ion: 99 Resp: 163

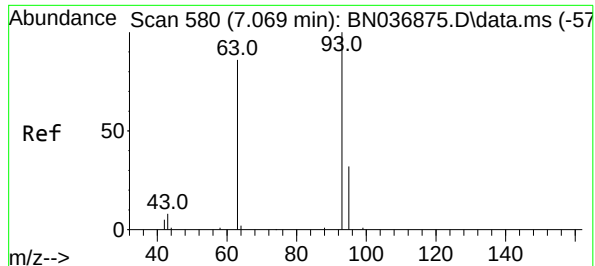
Ion Ratio Lower Upper

99 100

42 35.0 30.9 46.3

71 41.7 38.6 58.0

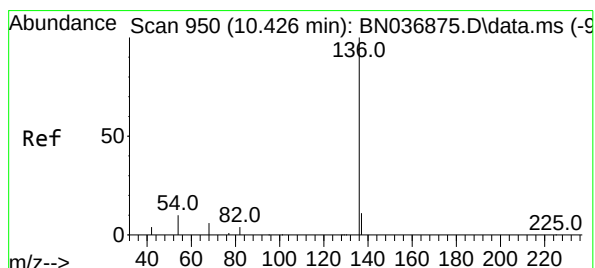
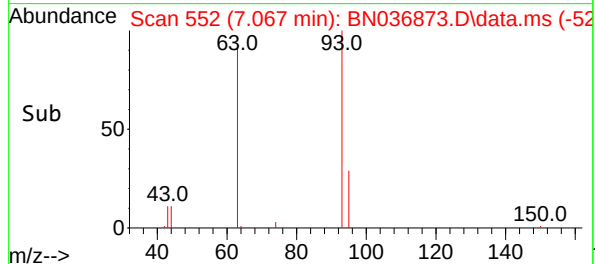
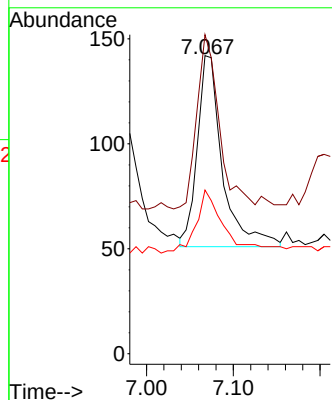
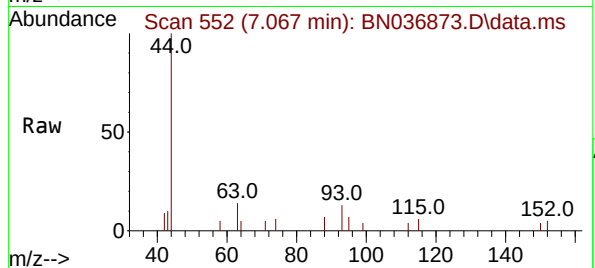




#6
bis(2-Chloroethyl)ether
Concen: 0.123 ng
RT: 7.067 min Scan# 51
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

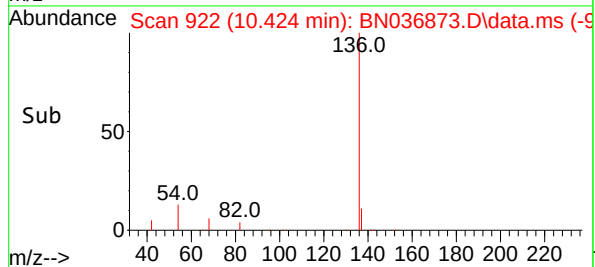
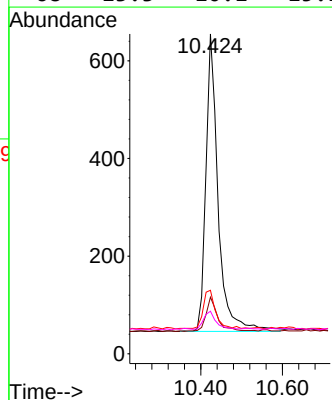
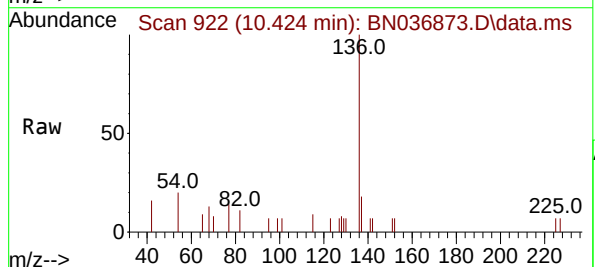
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

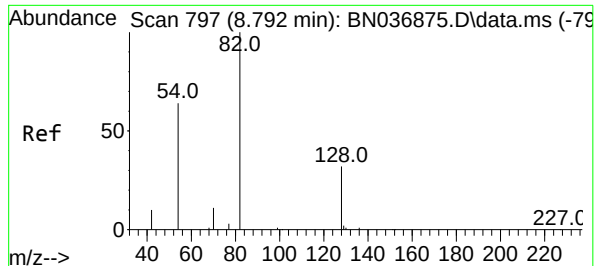
Tgt Ion: 93 Resp: 183
Ion Ratio Lower Upper
93 100
63 83.1 76.4 114.6
95 37.7 26.1 39.1



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.424 min Scan# 922
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion: 136 Resp: 1266
Ion Ratio Lower Upper
136 100
137 17.7 13.5 20.3
54 19.8 12.8 19.2#
68 13.3 10.1 15.1

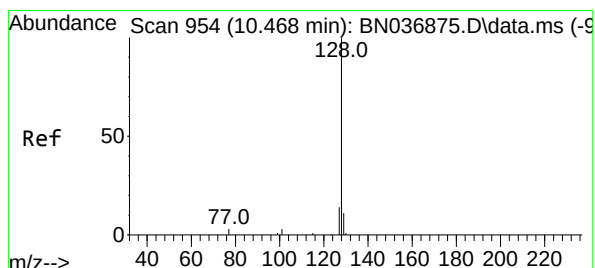
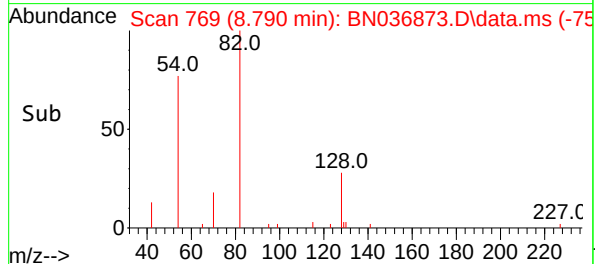
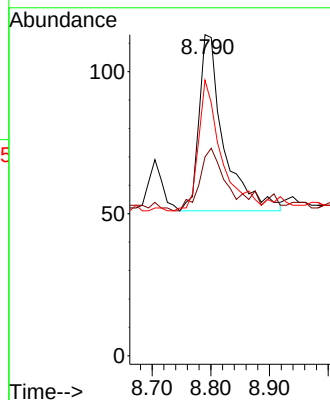
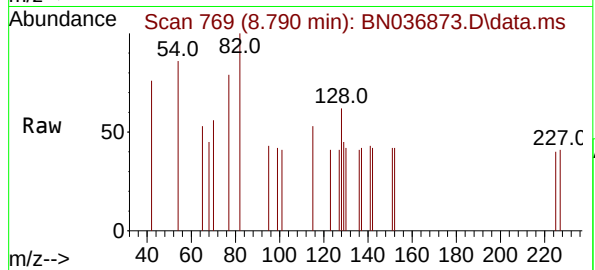




#8
Nitrobenzene-d5
Concen: 0.128 ng
RT: 8.790 min Scan# 71
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

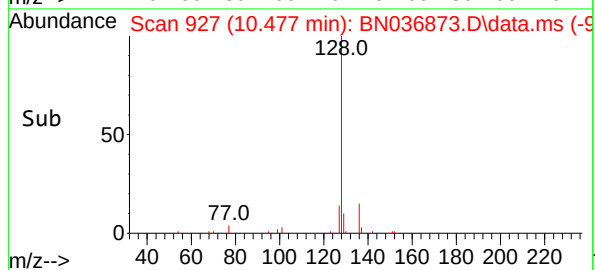
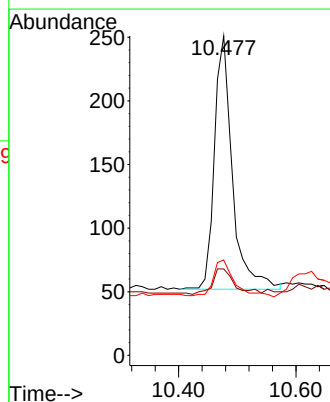
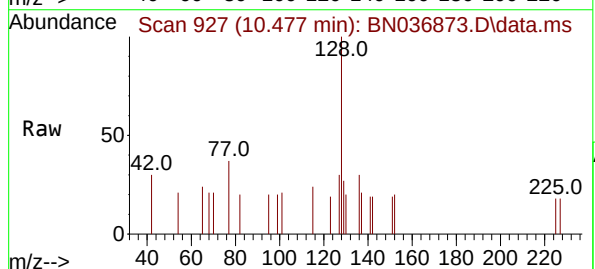
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

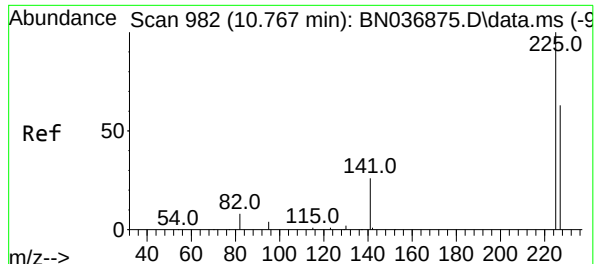
Tgt Ion: 82 Resp: 182
Ion Ratio Lower Upper
82 100
128 61.9 35.5 53.3#
54 85.8 56.2 84.4#



#9
Naphthalene
Concen: 0.115 ng
RT: 10.477 min Scan# 927
Delta R.T. 0.009 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion: 128 Resp: 423
Ion Ratio Lower Upper
128 100
129 27.1 12.9 19.3#
127 29.9 15.0 22.6#





#10

Hexachlorobutadiene

Concen: 0.113 ng

RT: 10.765 min Scan# 91

Delta R.T. -0.002 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

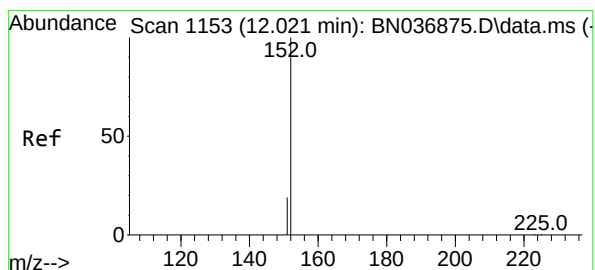
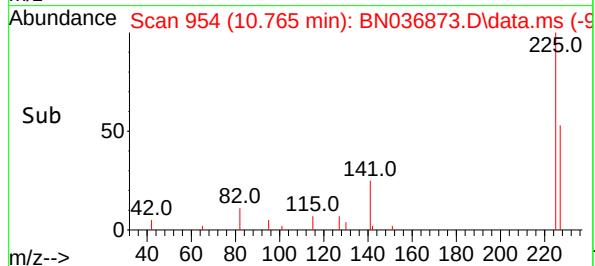
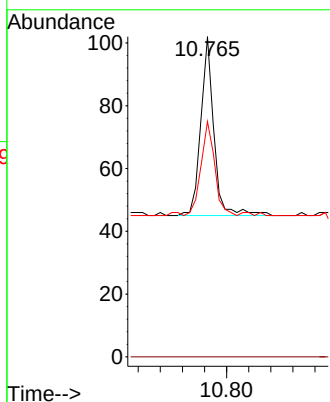
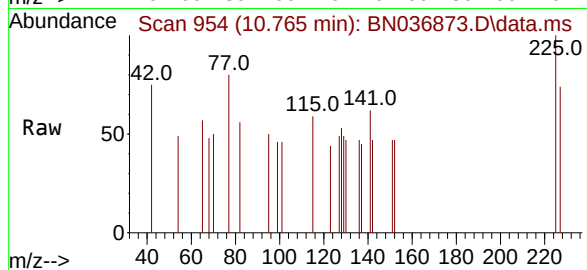
Tgt Ion:225 Resp: 95

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 55.8 50.5 75.7



#11

2-Methylnaphthalene-d10

Concen: 0.103 ng

RT: 12.025 min Scan# 1125

Delta R.T. 0.004 min

Lab File: BN036873.D

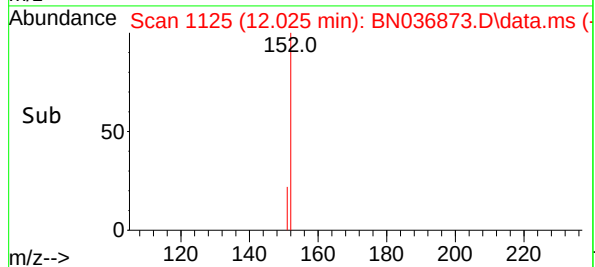
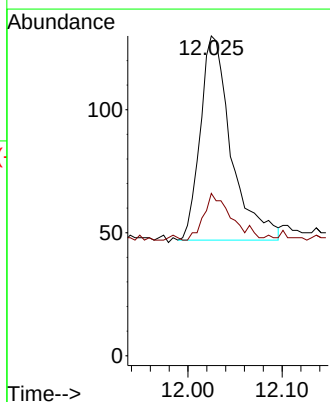
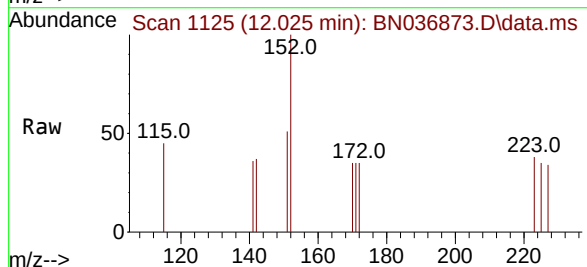
Acq: 11 Apr 2025 11:42

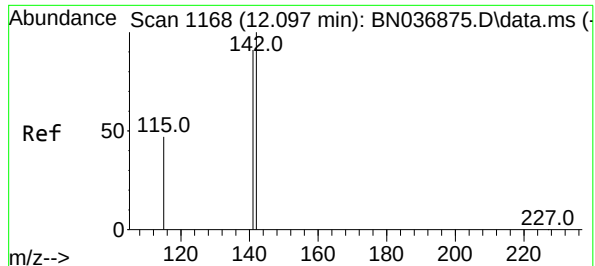
Tgt Ion:152 Resp: 190

Ion Ratio Lower Upper

152 100

151 20.5 17.8 26.8





#12

2-Methylnaphthalene

Concen: 0.108 ng

RT: 12.101 min Scan# 1168

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

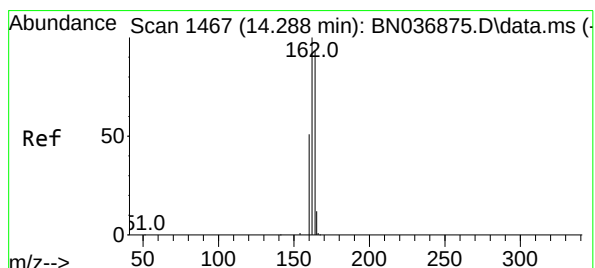
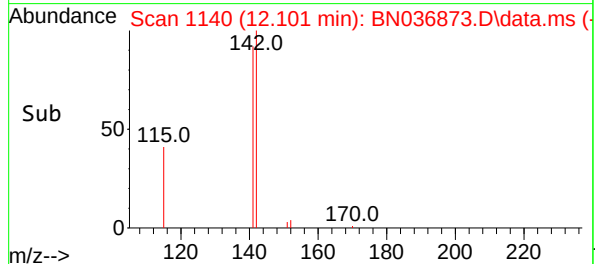
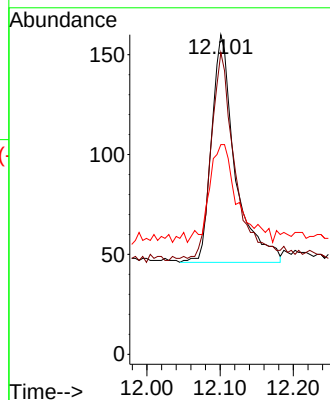
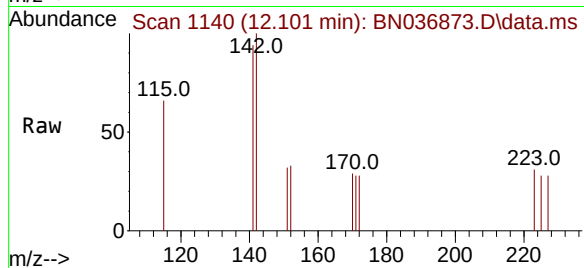
Tgt Ion:142 Resp: 254

Ion Ratio Lower Upper

142 100

141 94.4 73.8 110.8

115 65.6 43.3 64.9#



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.291 min Scan# 1439

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

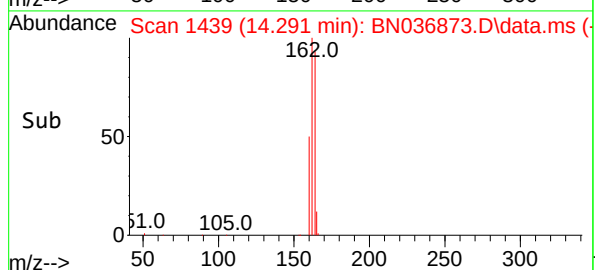
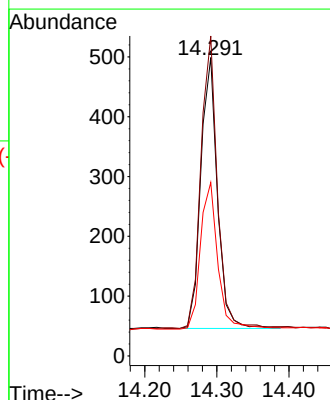
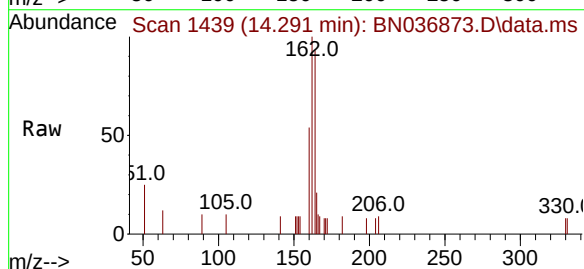
Tgt Ion:164 Resp: 727

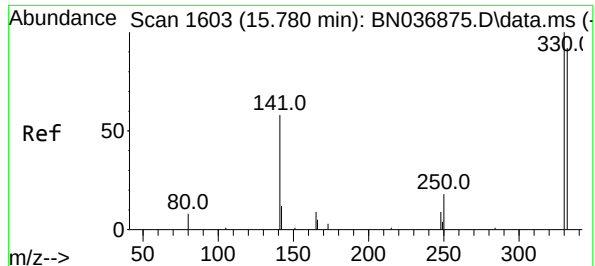
Ion Ratio Lower Upper

164 100

162 107.2 85.7 128.5

160 58.1 46.9 70.3

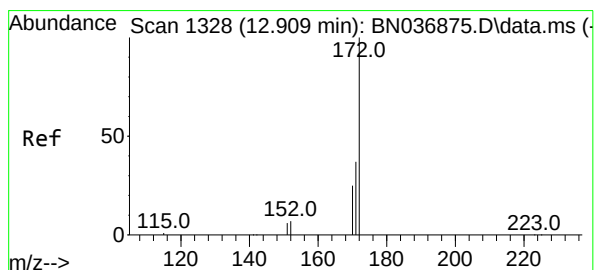
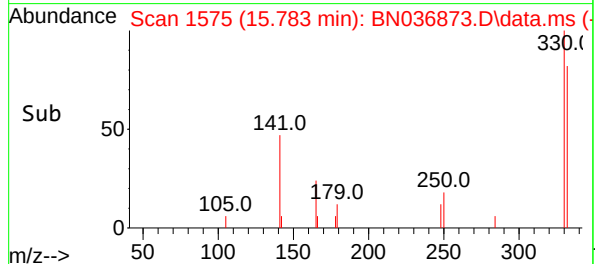
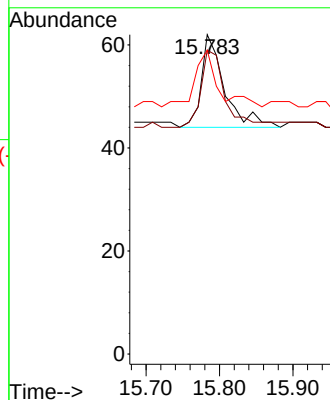
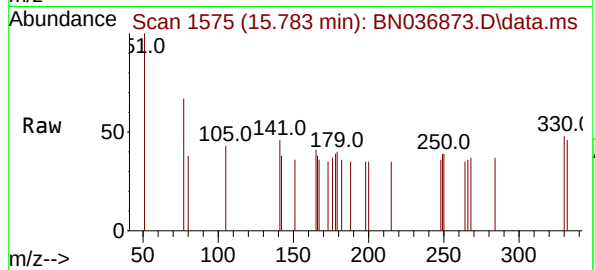




#14
2,4,6-Tribromophenol
Concen: 0.111 ng
RT: 15.783 min Scan# 11
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

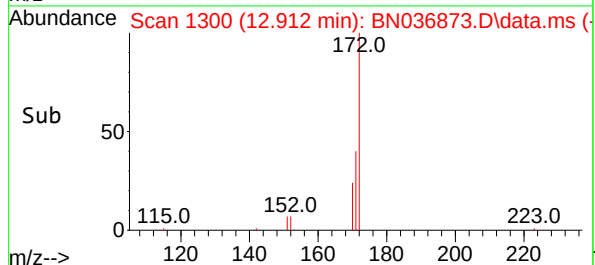
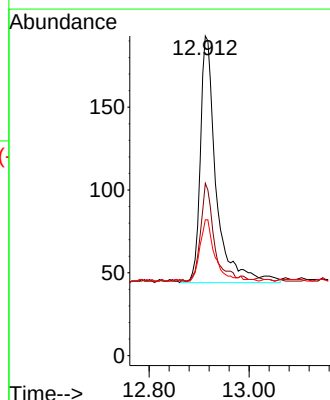
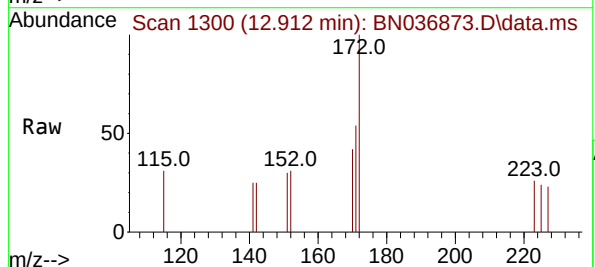
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

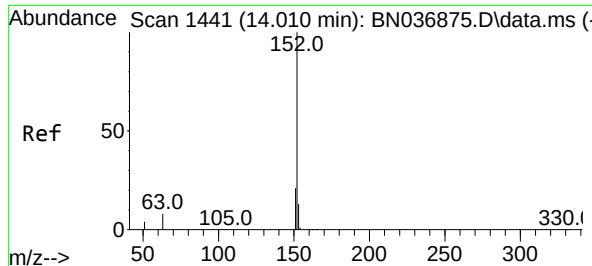
Tgt Ion:330 Resp: 39
Ion Ratio Lower Upper
330 100
332 87.2 87.0 130.6
141 61.5 45.3 67.9



#15
2-Fluorobiphenyl
Concen: 0.107 ng
RT: 12.912 min Scan# 1300
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:172 Resp: 375
Ion Ratio Lower Upper
172 100
171 53.9 32.7 49.1#
170 42.5 23.3 34.9#

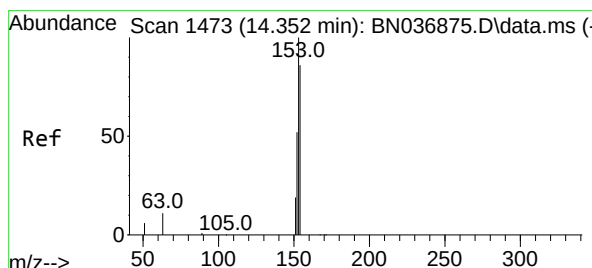
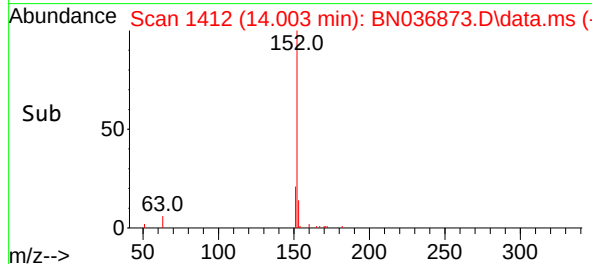
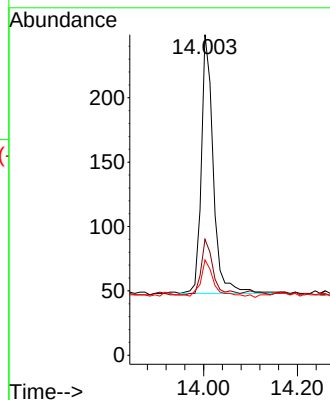
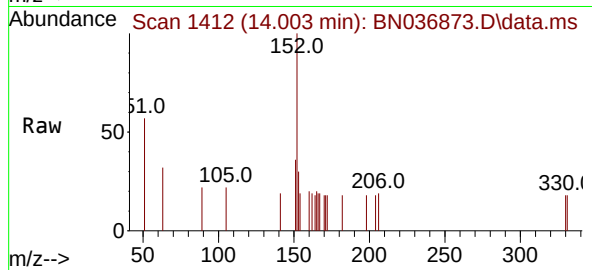




#16
Acenaphthylene
Concen: 0.105 ng
RT: 14.003 min Scan# 1441
Delta R.T. -0.007 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

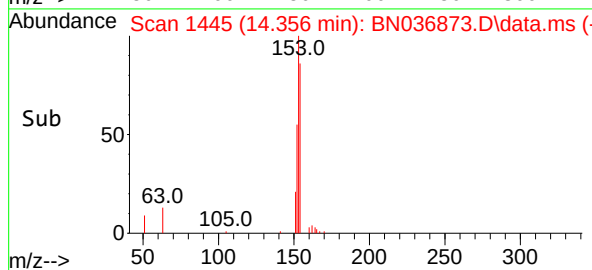
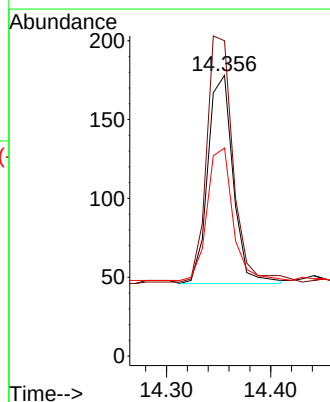
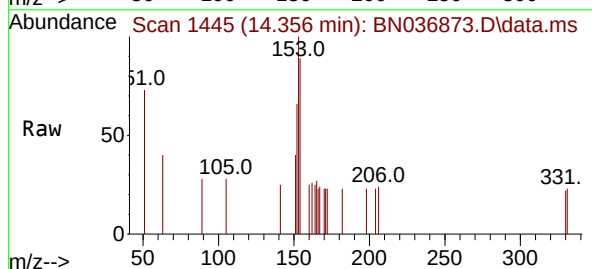
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

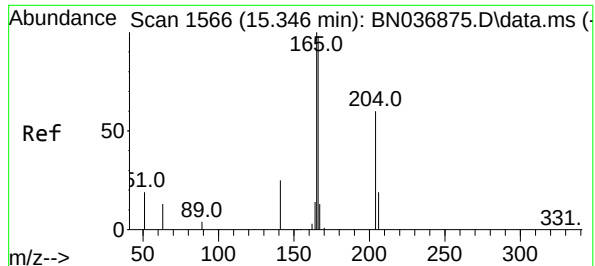
Tgt Ion:152 Resp: 356
Ion Ratio Lower Upper
152 100
151 21.1 16.4 24.6
153 16.6 10.3 15.5#



#17
Acenaphthene
Concen: 0.101 ng
RT: 14.356 min Scan# 1445
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:154 Resp: 223
Ion Ratio Lower Upper
154 100
153 124.7 97.8 146.6
152 64.1 52.7 79.1

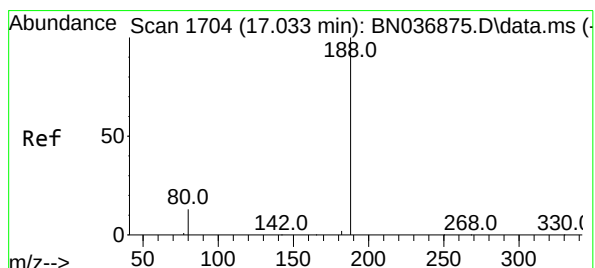
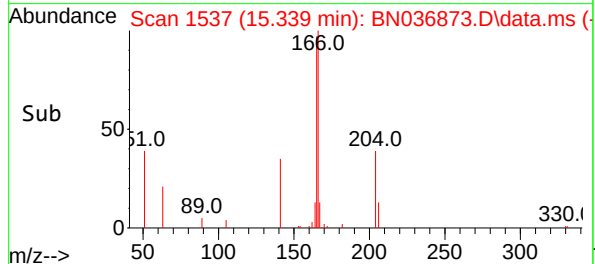
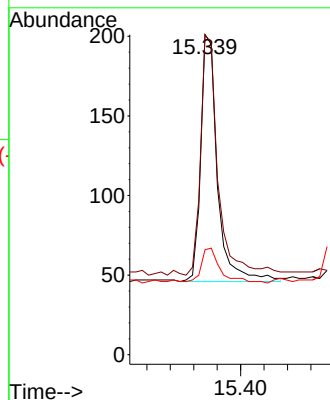
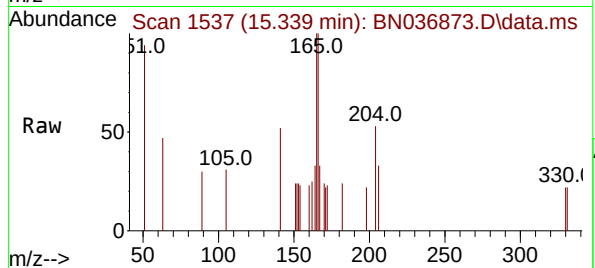




#18
Fluorene
Concen: 0.101 ng
RT: 15.339 min Scan# 11
Delta R.T. -0.007 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

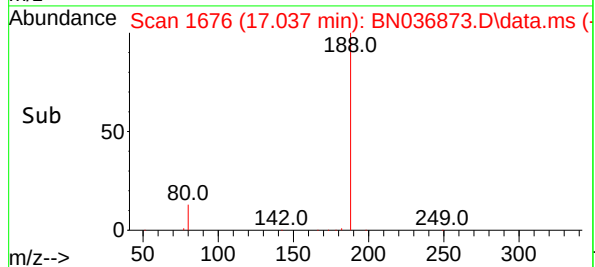
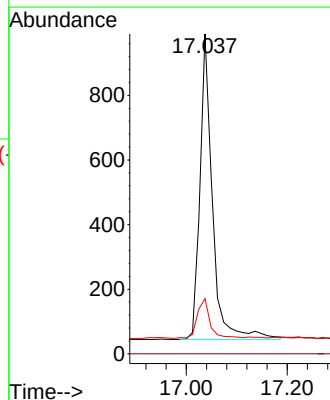
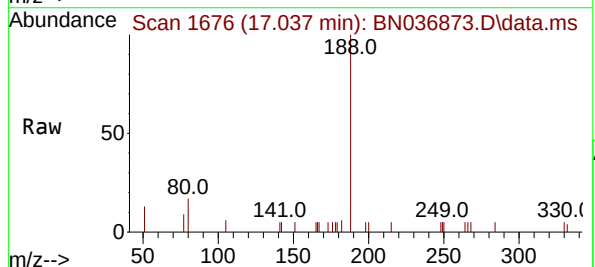
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

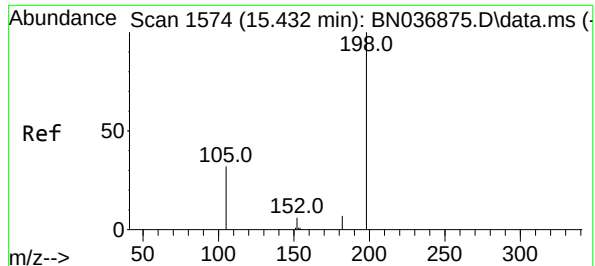
Tgt Ion:166 Resp: 308
Ion Ratio Lower Upper
166 100
165 102.6 83.2 124.8
167 16.6 11.1 16.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.037 min Scan# 1676
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:188 Resp: 1622
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 17.3 13.9 20.9

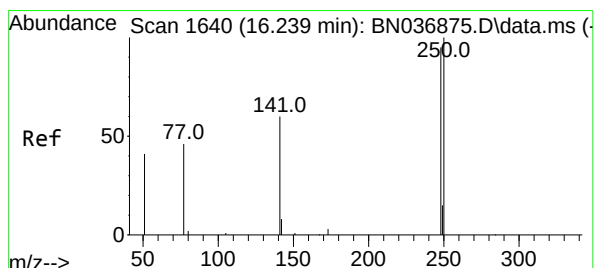
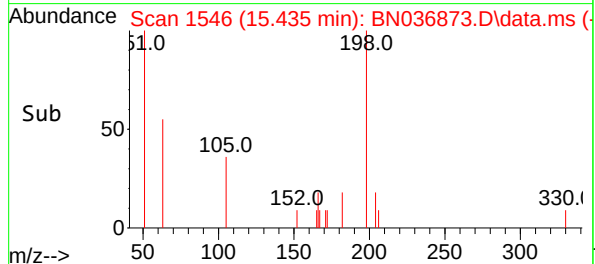
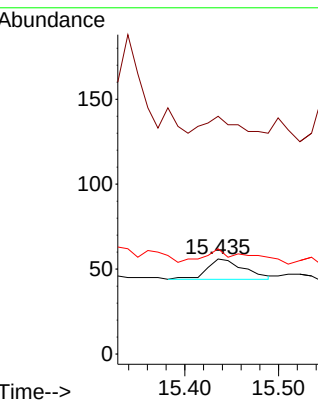
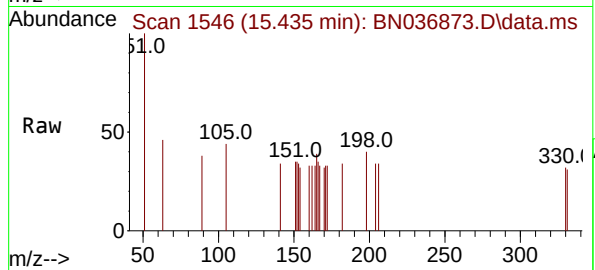




#20
4,6-Dinitro-2-methylphenol
Concen: 0.087 ng
RT: 15.435 min Scan# 11
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

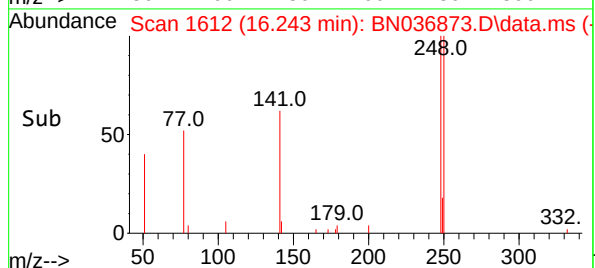
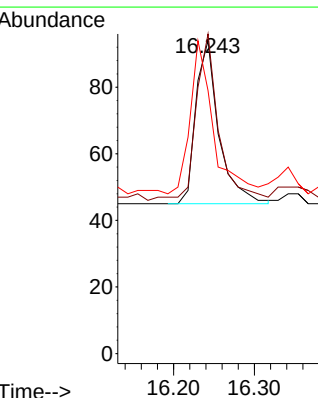
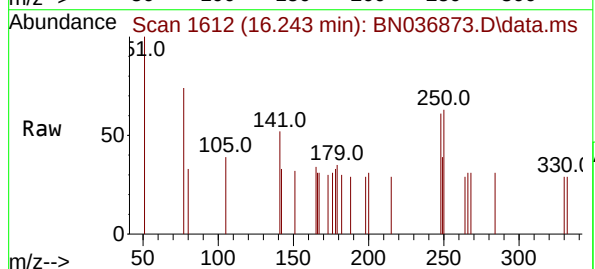
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

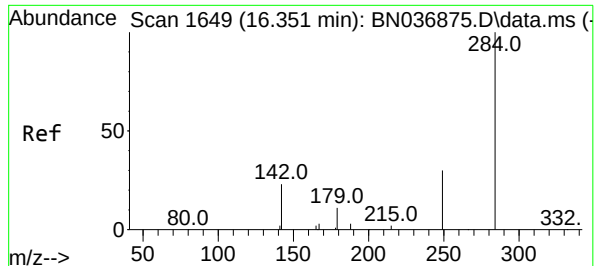
Tgt Ion:198 Resp: 33
Ion Ratio Lower Upper
198 100
51 250.0 107.6 161.4#
105 110.7 55.2 82.8#



#21
4-Bromophenyl-phenylether
Concen: 0.099 ng
RT: 16.243 min Scan# 1612
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:248 Resp: 97
Ion Ratio Lower Upper
248 100
250 102.1 83.5 125.3
141 84.0 55.3 82.9#





#22

Hexachlorobenzene

Concen: 0.107 ng

RT: 16.354 min Scan# 1621

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

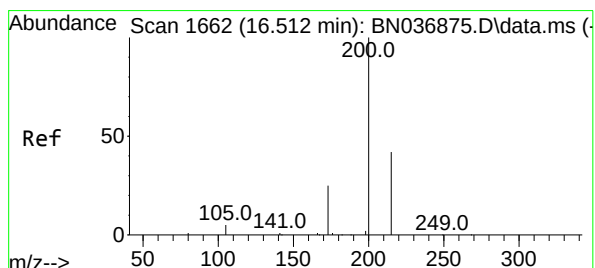
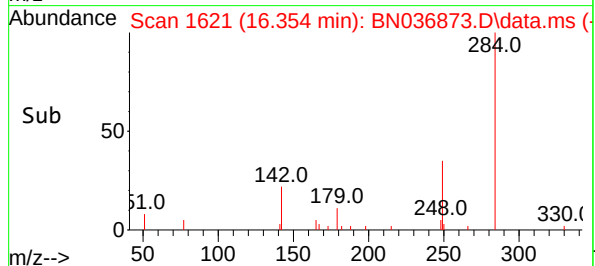
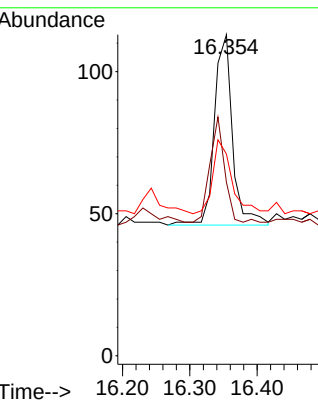
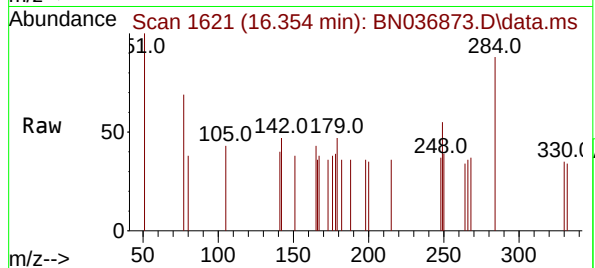
Tgt Ion:284 Resp: 125

Ion Ratio Lower Upper

284 100

142 49.6 37.7 56.5

249 40.8 29.0 43.6



#23

Atrazine

Concen: 0.100 ng

RT: 16.516 min Scan# 1634

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

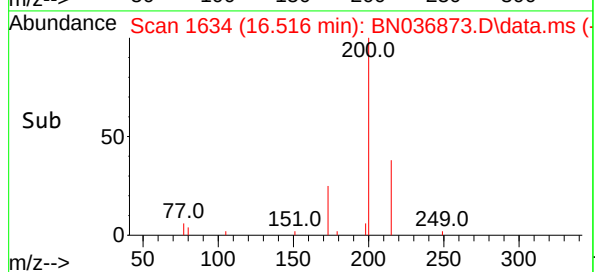
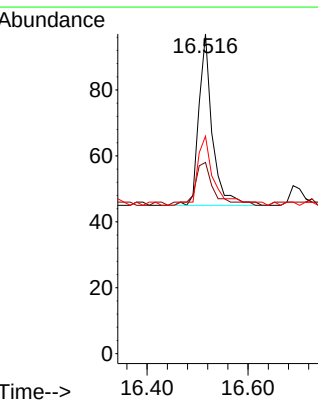
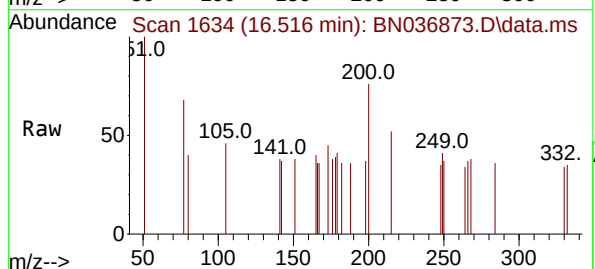
Tgt Ion:200 Resp: 96

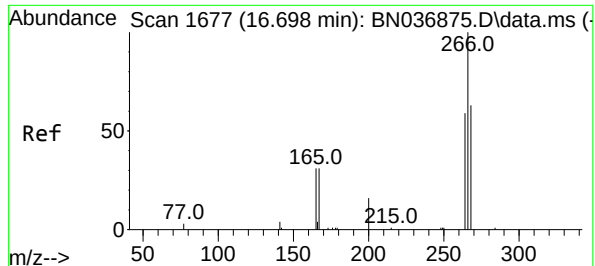
Ion Ratio Lower Upper

200 100

173 59.8 28.6 43.0#

215 68.0 40.5 60.7#





#24

Pentachlorophenol

Concen: 0.103 ng

RT: 16.702 min Scan# 1649

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

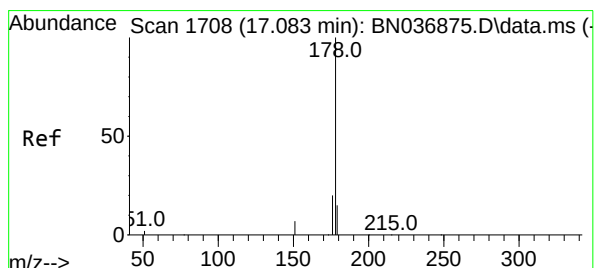
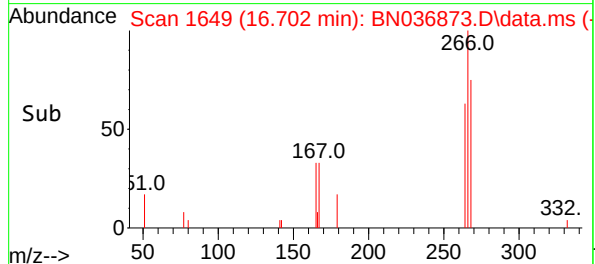
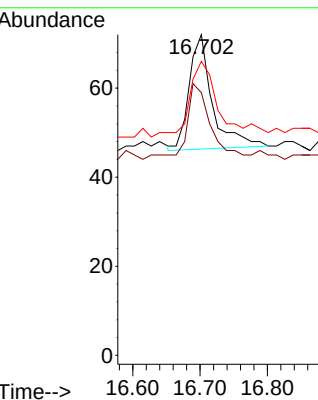
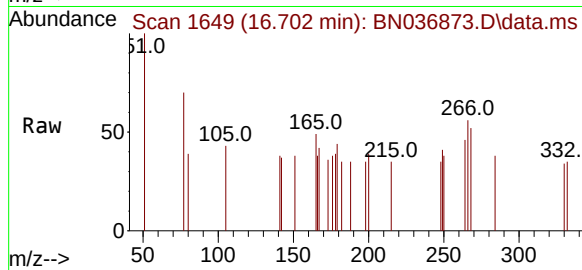
Tgt Ion:266 Resp: 62

Ion Ratio Lower Upper

266 100

264 69.4 44.6 66.8#

268 74.2 51.8 77.6



#25

Phenanthrene

Concen: 0.103 ng

RT: 17.074 min Scan# 1679

Delta R.T. -0.009 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

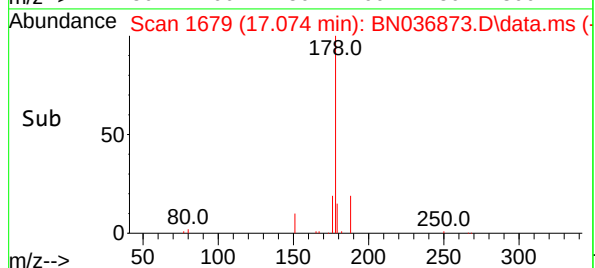
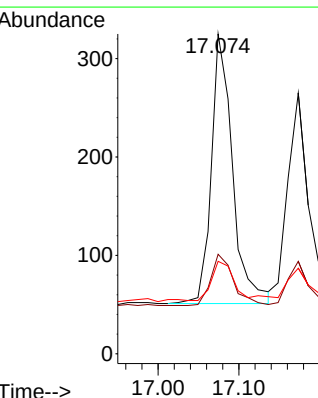
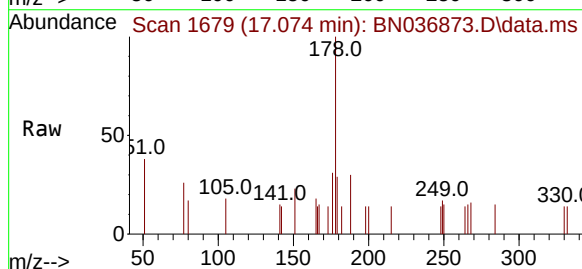
Tgt Ion:178 Resp: 500

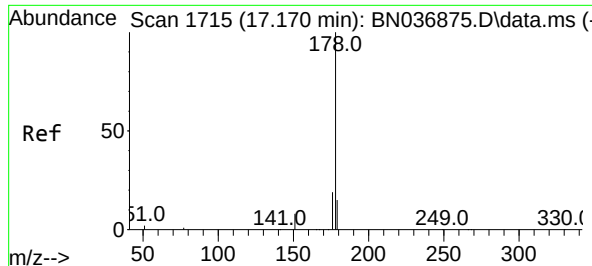
Ion Ratio Lower Upper

178 100

176 20.2 16.6 25.0

179 16.0 12.8 19.2

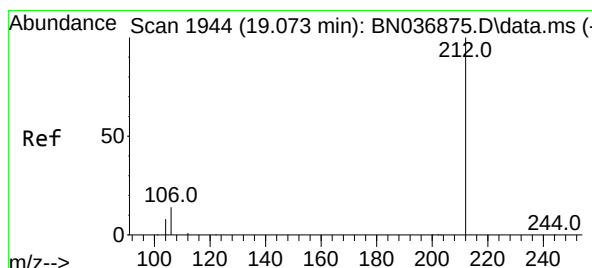
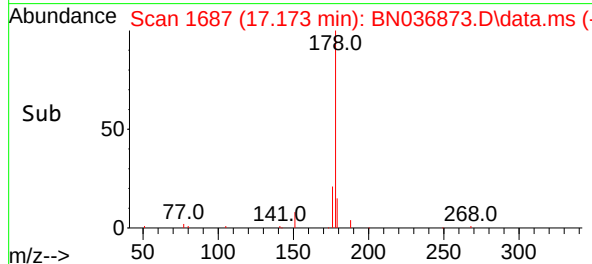
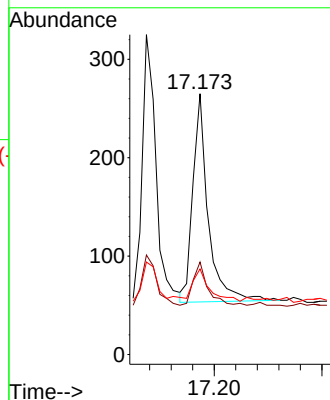
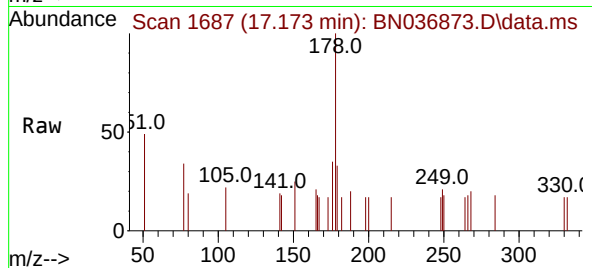




#26
Anthracene
Concen: 0.097 ng
RT: 17.173 min Scan# 1
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

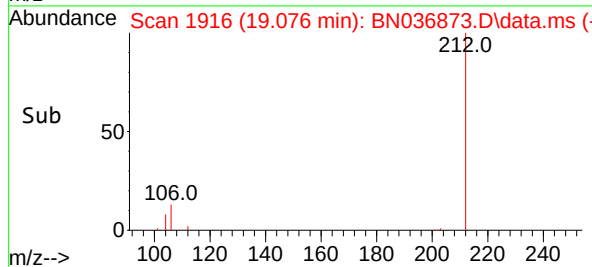
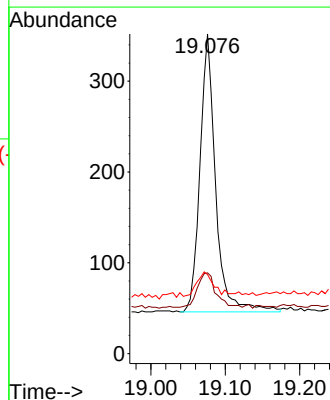
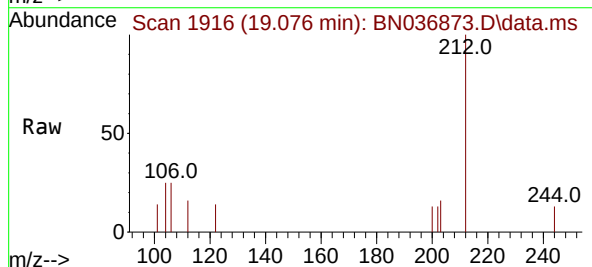
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

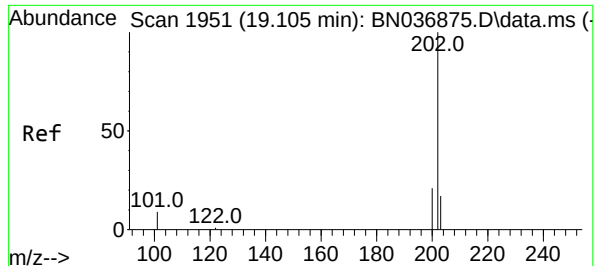
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.8	23.6
179	16.7	12.6	18.8



#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 19.076 min Scan# 1916
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.2	16.8
104	9.6	7.5	11.3

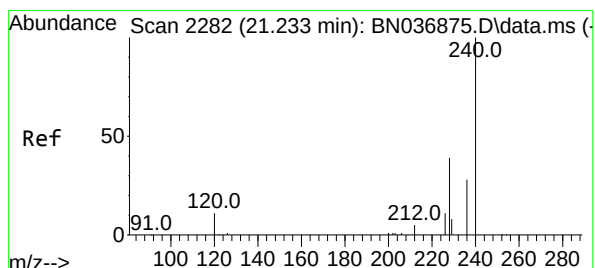
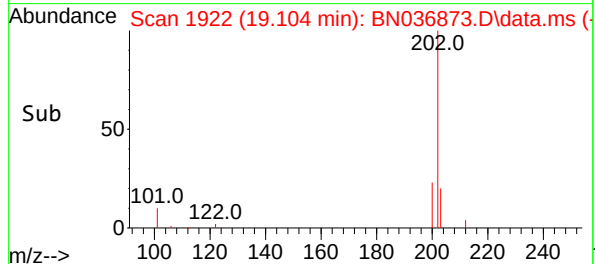
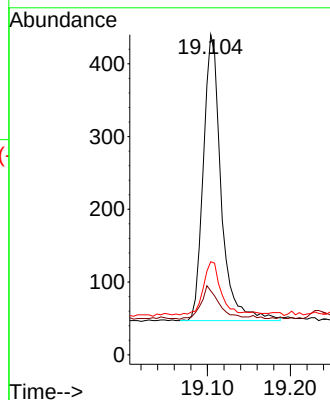
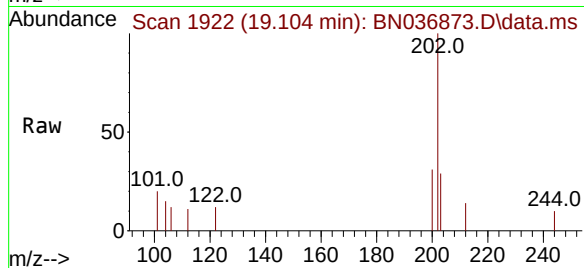




#28
Fluoranthene
Concen: 0.097 ng
RT: 19.104 min Scan# 1951
Delta R.T. -0.001 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

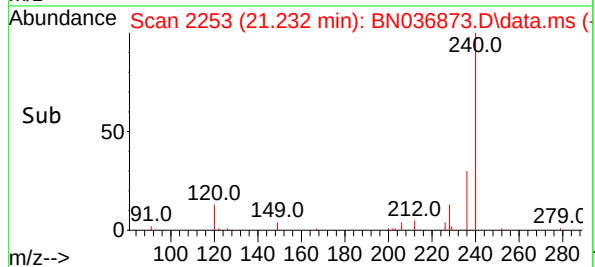
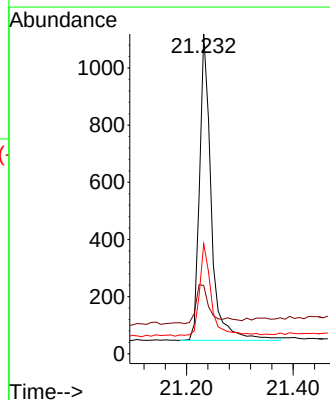
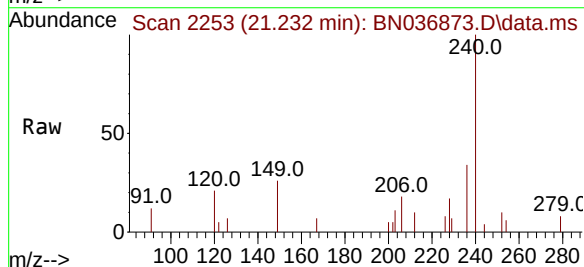
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

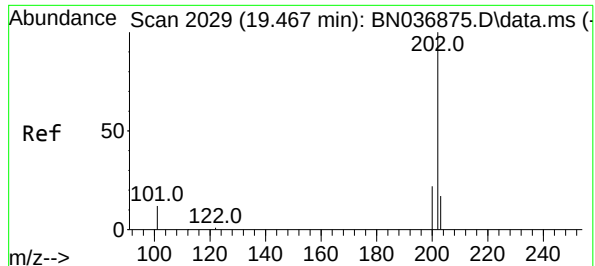
Tgt Ion:202 Resp: 587
Ion Ratio Lower Upper
202 100
101 11.8 8.5 12.7
203 17.9 13.8 20.6



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.232 min Scan# 2253
Delta R.T. -0.001 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:240 Resp: 1643
Ion Ratio Lower Upper
240 100
120 21.4 15.8 23.6
236 34.4 25.8 38.8





#30

Pyrene

Concen: 0.098 ng

RT: 19.466 min Scan# 20

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

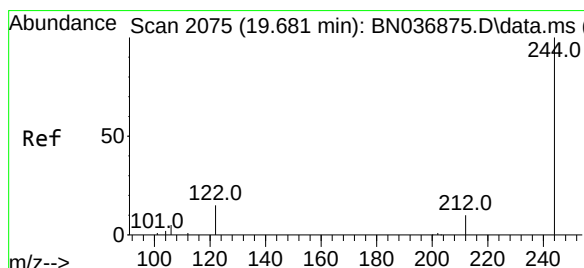
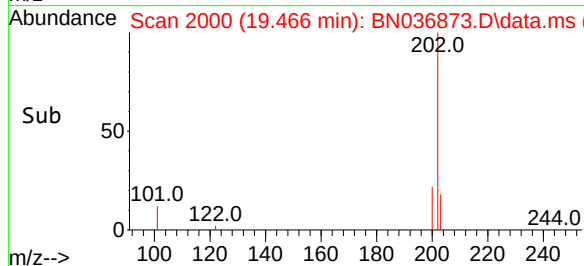
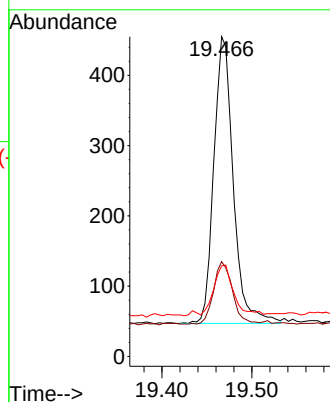
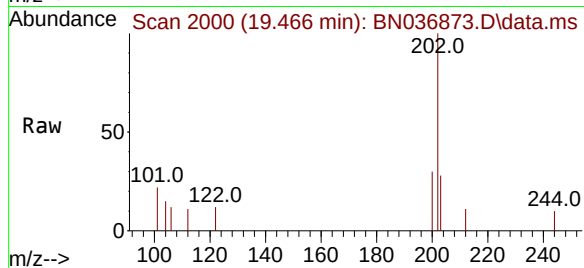
Tgt Ion:202 Resp: 611

Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 17.2 14.5 21.7



#31

Terphenyl-d14

Concen: 0.097 ng

RT: 19.680 min Scan# 2046

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

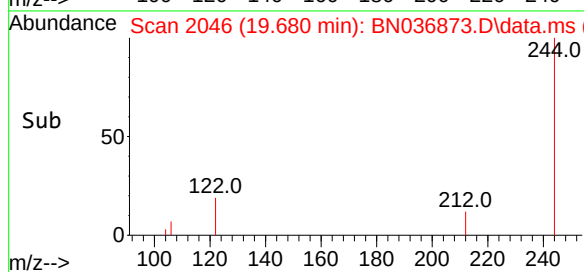
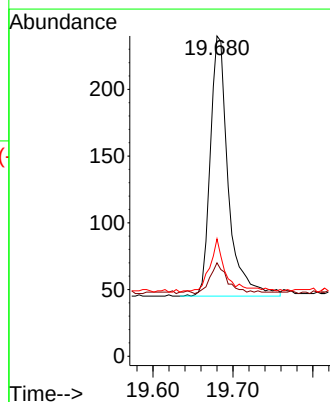
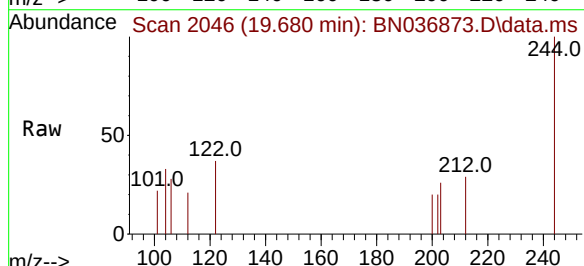
Tgt Ion:244 Resp: 305

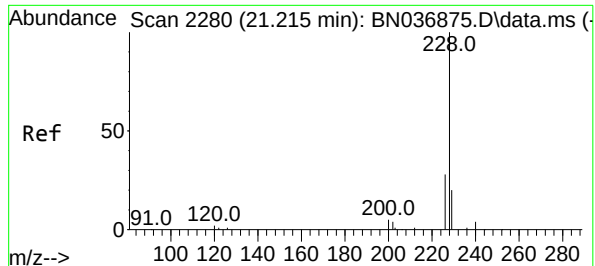
Ion Ratio Lower Upper

244 100

212 29.2 11.6 17.4#

122 36.7 14.9 22.3#





#32

Benzo(a)anthracene

Concen: 0.097 ng

RT: 21.214 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

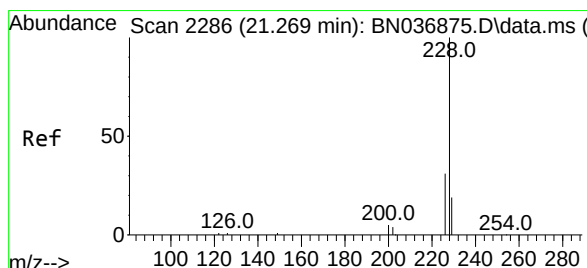
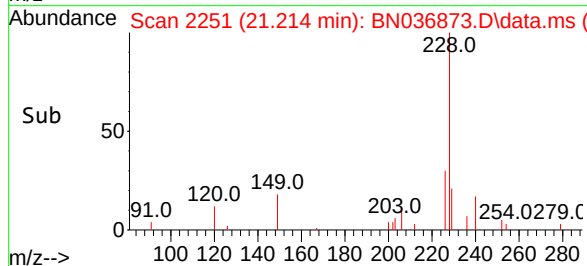
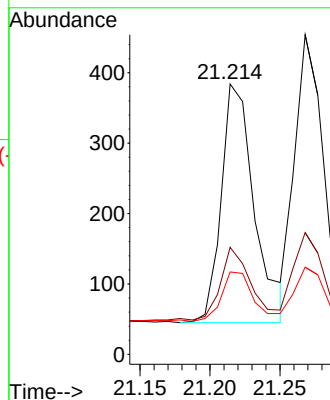
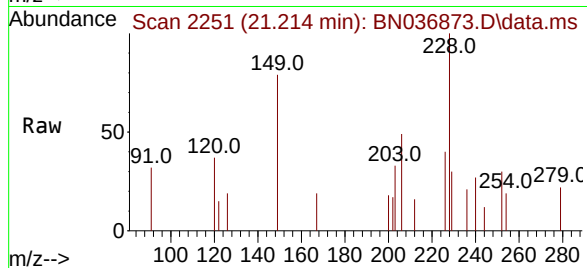
Tgt Ion:228 Resp: 559

Ion Ratio Lower Upper

228 100

226 39.6 24.5 36.7#

229 30.5 17.7 26.5#



#33

Chrysene

Concen: 0.092 ng

RT: 21.268 min Scan# 2257

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

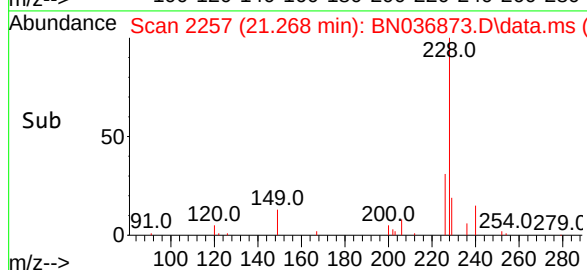
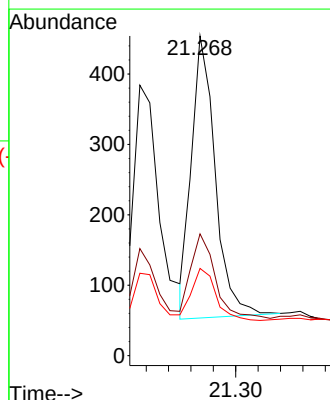
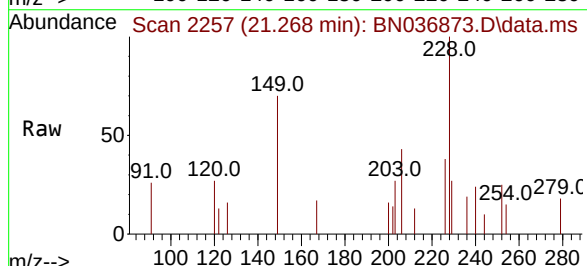
Tgt Ion:228 Resp: 590

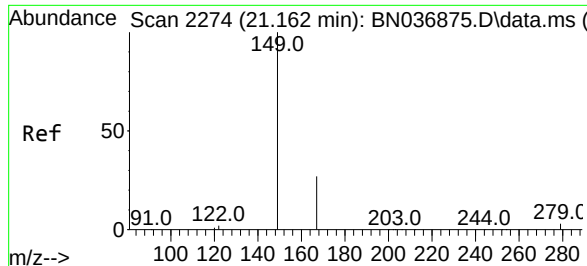
Ion Ratio Lower Upper

228 100

226 38.1 26.1 39.1

229 27.3 17.0 25.4#

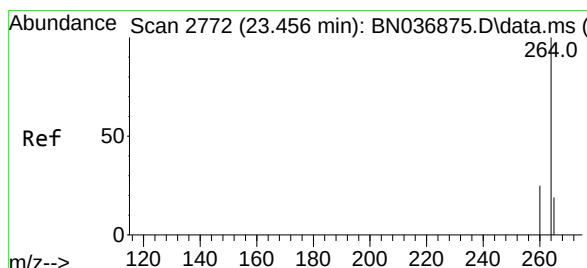
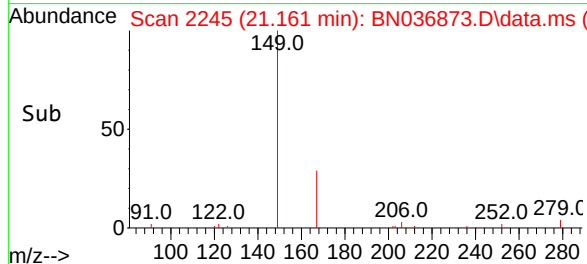
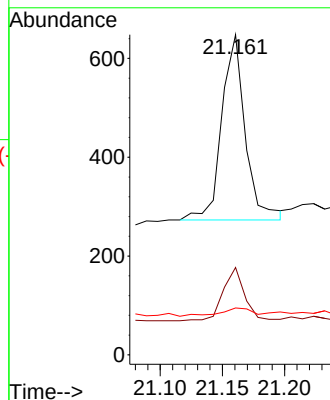
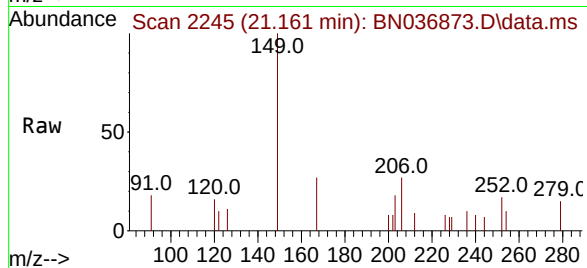




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.161 min Scan# 211
Delta R.T. -0.001 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

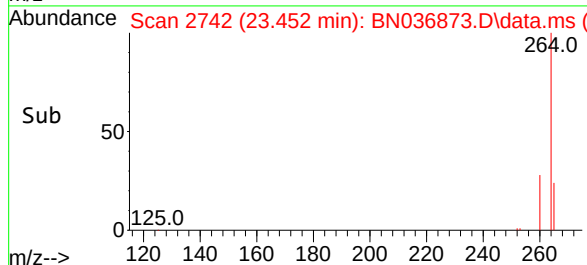
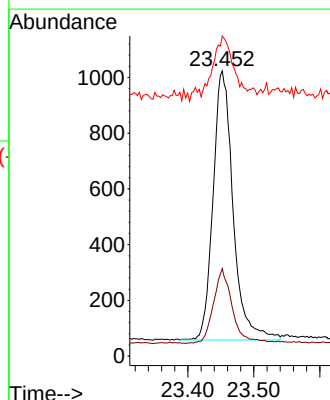
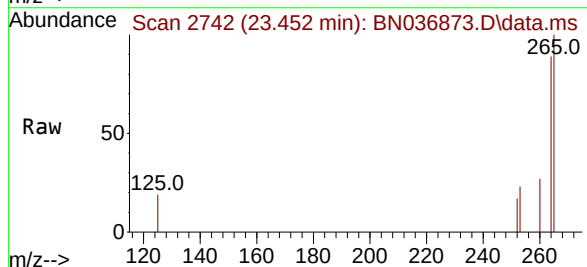
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

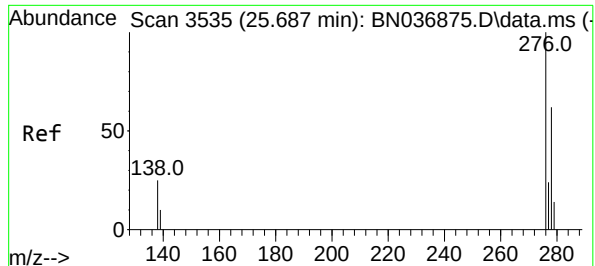
Tgt Ion:149 Resp: 495
Ion Ratio Lower Upper
149 100
167 25.9 21.0 31.4
279 6.9 3.6 5.4#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.452 min Scan# 2742
Delta R.T. -0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:264 Resp: 2037
Ion Ratio Lower Upper
264 100
260 30.7 22.9 34.3
265 112.3 88.6 132.8





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.093 ng

RT: 25.686 min Scan# 3506

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

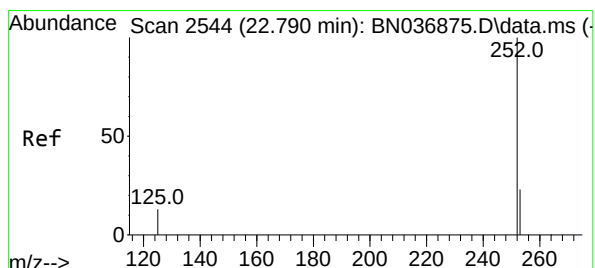
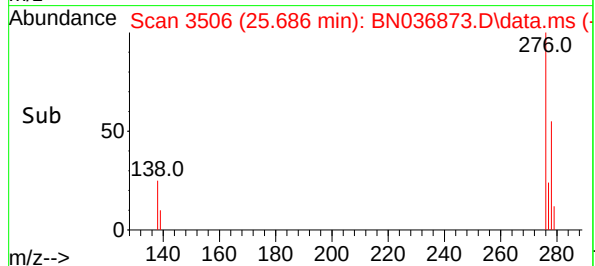
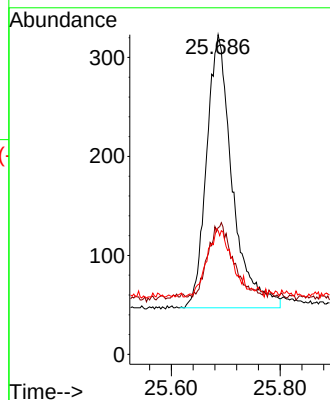
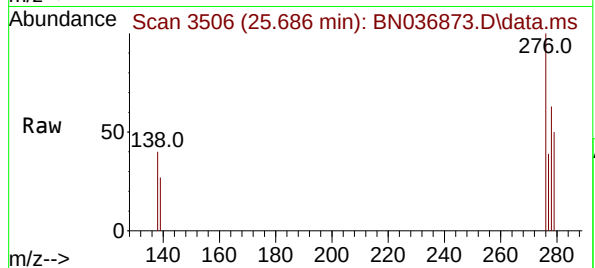
Tgt Ion:276 Resp: 907

Ion Ratio Lower Upper

276 100

138 25.4 21.0 31.6

277 12.7 19.3 28.9#



#37

Benzo(b)fluoranthene

Concen: 0.097 ng

RT: 22.791 min Scan# 2516

Delta R.T. 0.002 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

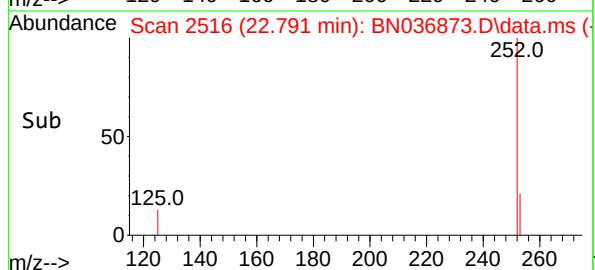
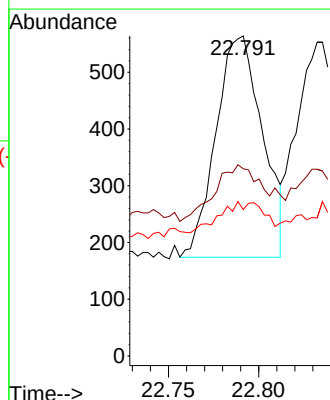
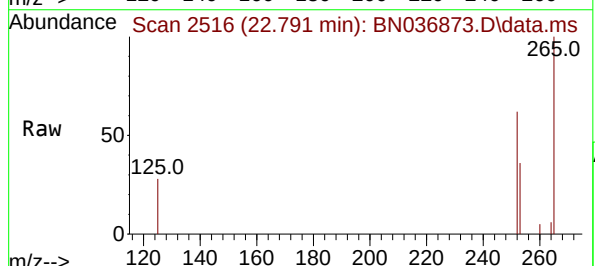
Tgt Ion:252 Resp: 699

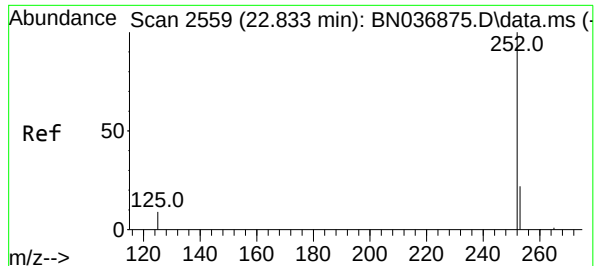
Ion Ratio Lower Upper

252 100

253 58.5 27.0 40.6#

125 45.7 17.7 26.5#





#38

Benzo(k)fluoranthene

Concen: 0.105 ng m

RT: 22.832 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

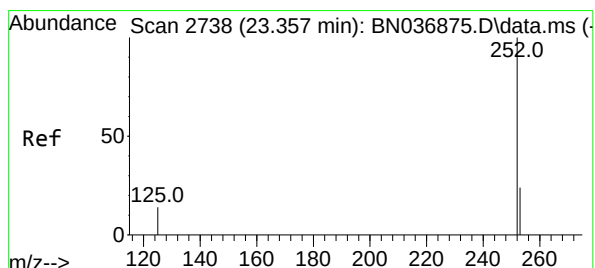
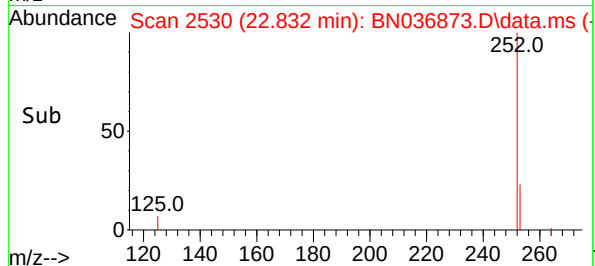
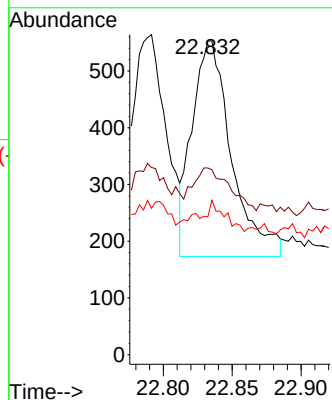
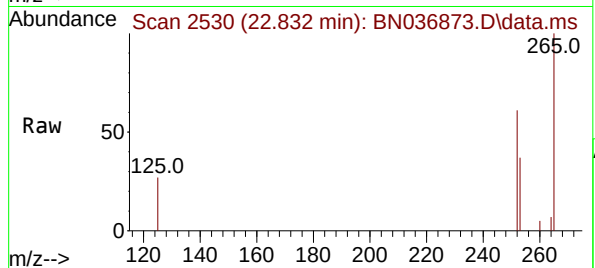
Tgt Ion:252 Resp: 757

Ion Ratio Lower Upper

252 100

253 59.5 26.7 40.1#

125 43.9 16.9 25.3#



#39

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.356 min Scan# 2709

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

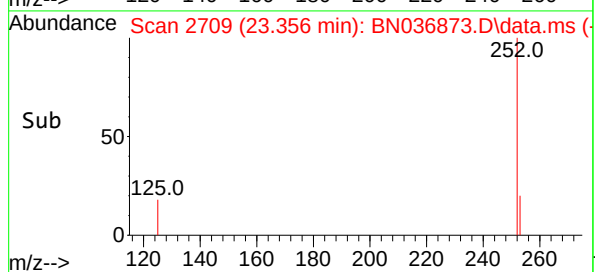
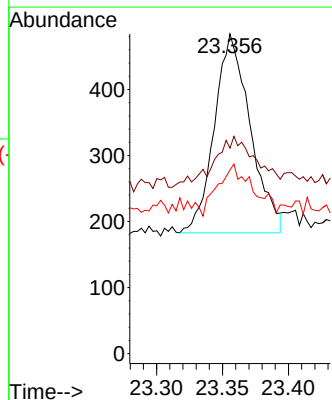
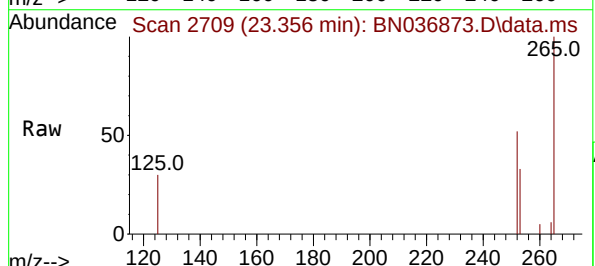
Tgt Ion:252 Resp: 571

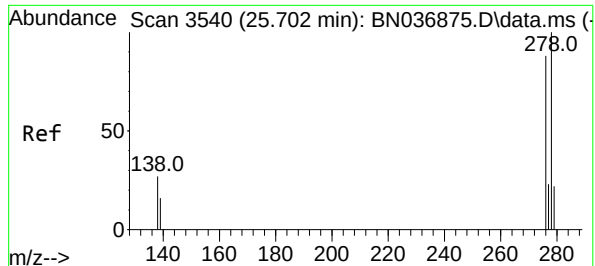
Ion Ratio Lower Upper

252 100

253 64.3 31.5 47.3#

125 57.4 22.6 34.0#





#40

Dibenzo(a,h)anthracene

Concen: 0.088 ng

RT: 25.703 min Scan# 31

Delta R.T. 0.002 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

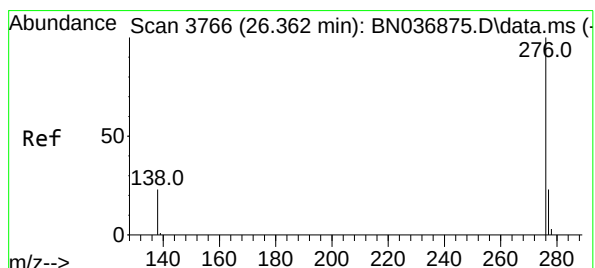
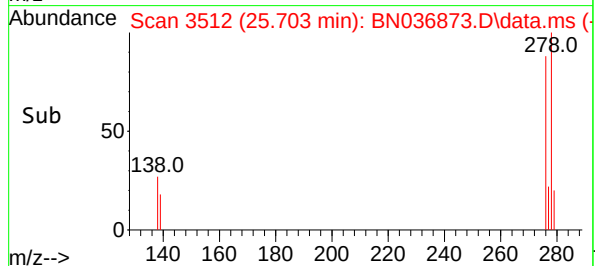
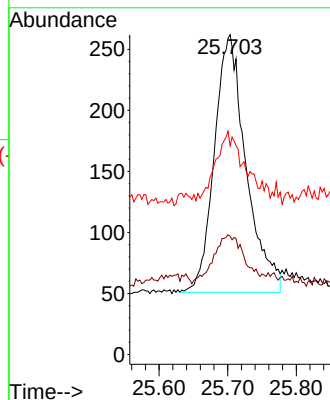
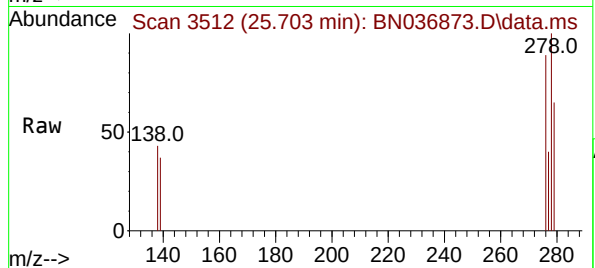
Tgt Ion:278 Resp: 678

Ion Ratio Lower Upper

278 100

139 37.0 17.6 26.4#

279 65.3 26.7 40.1#



#41

Benzo(g,h,i)perylene

Concen: 0.096 ng

RT: 26.367 min Scan# 3739

Delta R.T. 0.005 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

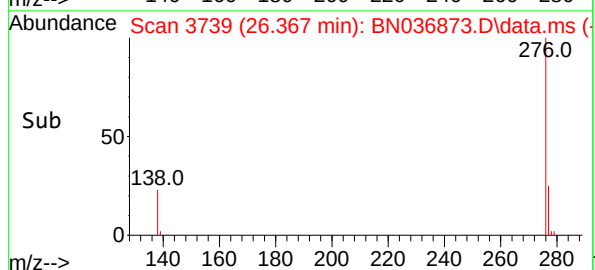
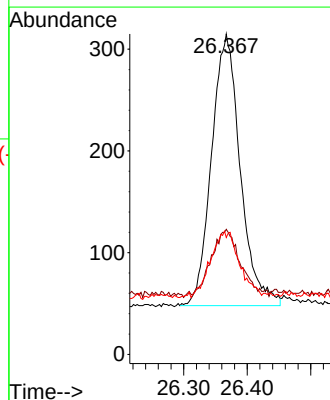
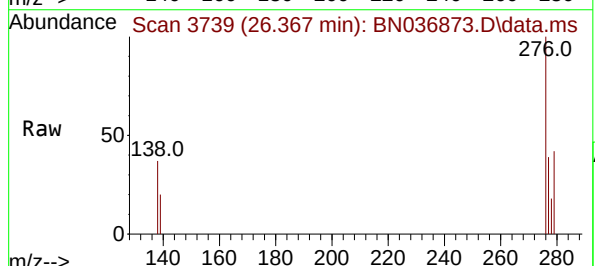
Tgt Ion:276 Resp: 838

Ion Ratio Lower Upper

276 100

277 39.0 21.8 32.8#

138 36.5 21.6 32.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036874.D
 Acq On : 11 Apr 2025 12:37
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Apr 11 15:35:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:32:59 2025
 Response via : Initial Calibration

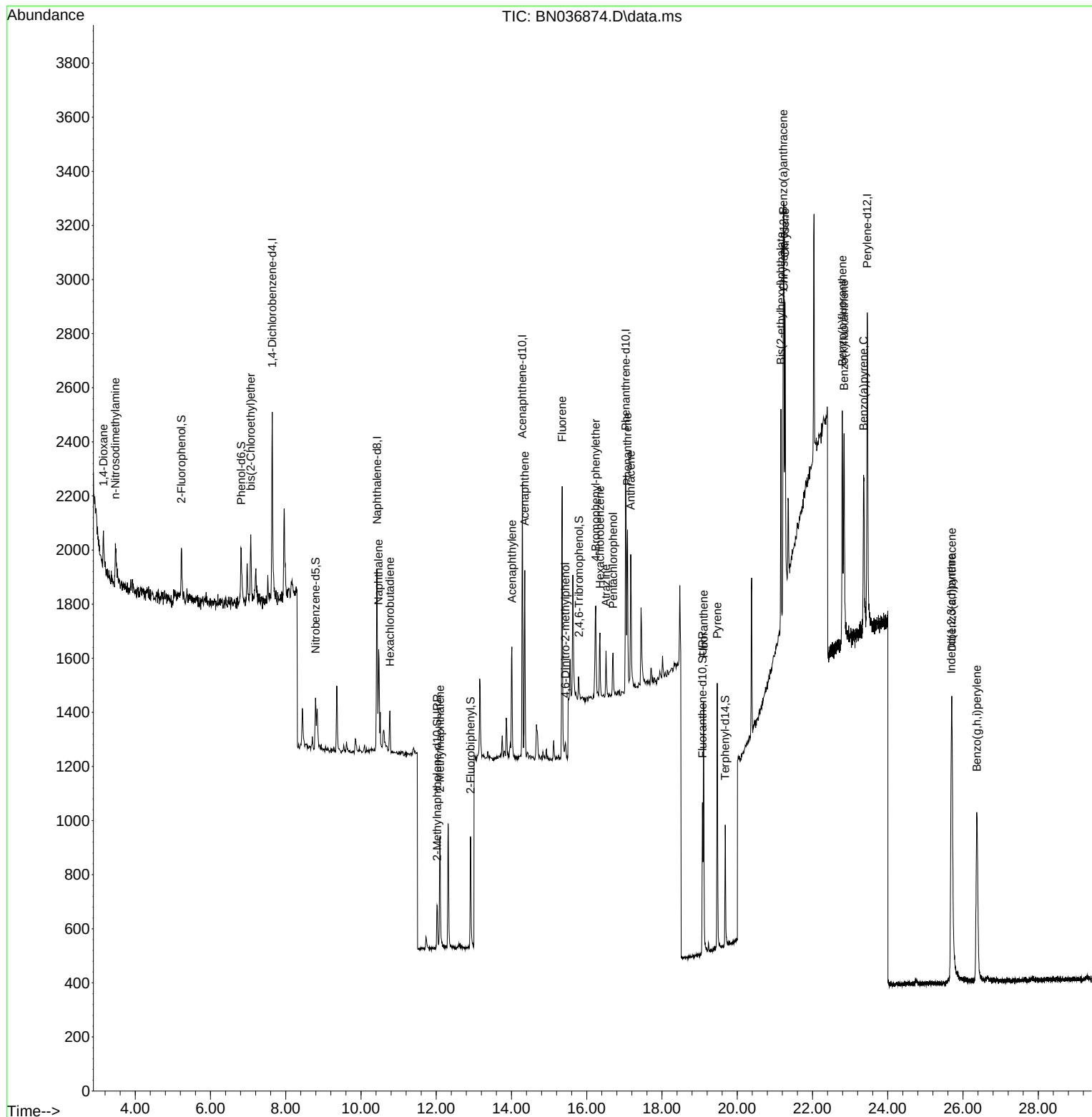
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	357	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	936	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	543	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	1263	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1230	0.400	ng	# 0.00
35) Perylene-d12	23.456	264	1607	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	168	0.198	ng	0.00
5) Phenol-d6	6.817	99	214	0.198	ng	0.00
8) Nitrobenzene-d5	8.792	82	205	0.195	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	264	0.193	ng	0.00
14) 2,4,6-Tribromophenol	15.792	330	51	0.194	ng	0.01
15) 2-Fluorobiphenyl	12.914	172	505	0.192	ng	0.00
27) Fluoranthene-d10	19.077	212	669	0.189	ng	0.00
31) Terphenyl-d14	19.681	244	462	0.196	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	105	0.249	ng	99
3) n-Nitrosodimethylamine	3.473	42	195	0.210	ng	# 92
6) bis(2-Chloroethyl)ether	7.069	93	184	0.172	ng	85
9) Naphthalene	10.468	128	534	0.196	ng	# 78
10) Hexachlorobutadiene	10.767	225	122	0.196	ng	# 97
12) 2-Methylnaphthalene	12.097	142	329	0.189	ng	95
16) Acenaphthylene	14.010	152	491	0.195	ng	99
17) Acenaphthene	14.352	154	319	0.194	ng	99
18) Fluorene	15.346	166	461	0.203	ng	94
20) 4,6-Dinitro-2-methylph...	15.432	198	53	0.179	ng	# 56
21) 4-Bromophenyl-phenylether	16.239	248	145	0.191	ng	91
22) Hexachlorobenzene	16.351	284	185	0.204	ng	97
23) Atrazine	16.512	200	147	0.196	ng	# 67
24) Pentachlorophenol	16.698	266	97	0.207	ng	93
25) Phenanthrene	17.083	178	690	0.182	ng	99
26) Anthracene	17.170	178	631	0.188	ng	96
28) Fluoranthene	19.105	202	887	0.187	ng	99
30) Pyrene	19.468	202	930	0.199	ng	98
32) Benzo(a)anthracene	21.224	228	843	0.195	ng	93
33) Chrysene	21.269	228	964	0.200	ng	94
34) Bis(2-ethylhexyl)phtha...	21.162	149	736	0.225	ng	97
36) Indeno(1,2,3-cd)pyrene	25.693	276	1449	0.189	ng	# 84
37) Benzo(b)fluoranthene	22.793	252	1027	0.181	ng	# 75
38) Benzo(k)fluoranthene	22.836	252	1046	0.183	ng	# 71
39) Benzo(a)pyrene	23.357	252	927	0.186	ng	# 67
40) Dibenzo(a,h)anthracene	25.702	278	1138	0.188	ng	# 77
41) Benzo(g,h,i)perylene	26.368	276	1344	0.195	ng	# 90

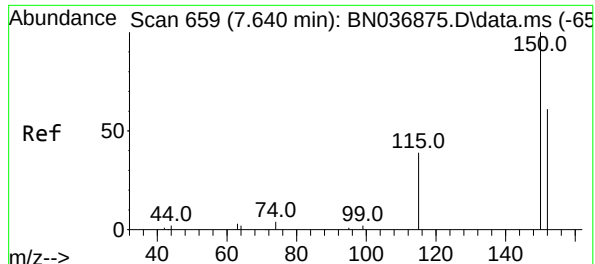
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036874.D
Acq On : 11 Apr 2025 12:37
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Apr 11 15:35:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

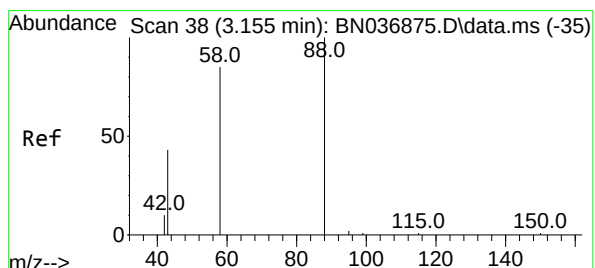
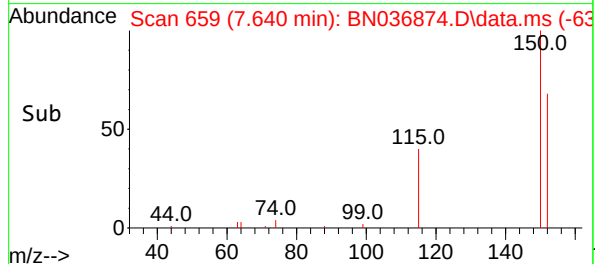
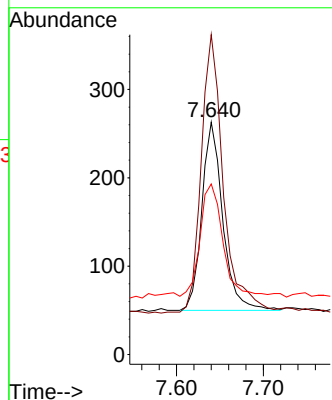
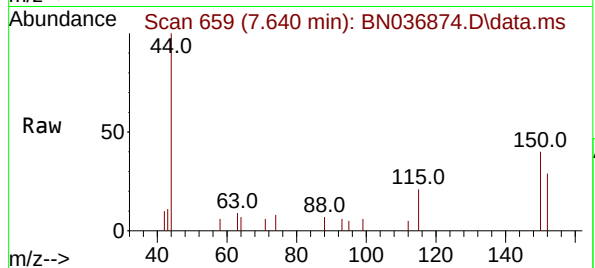




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

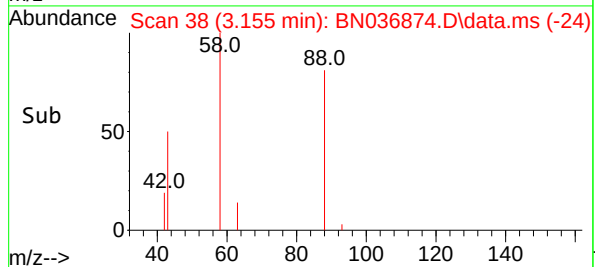
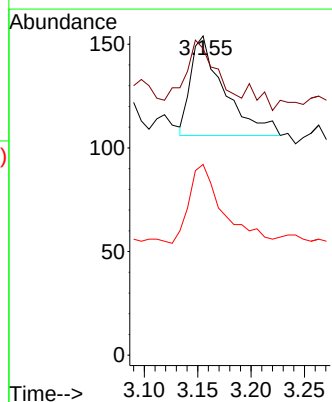
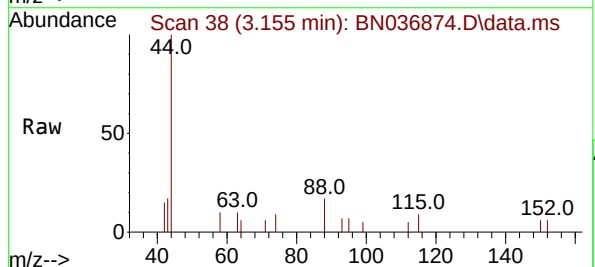
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

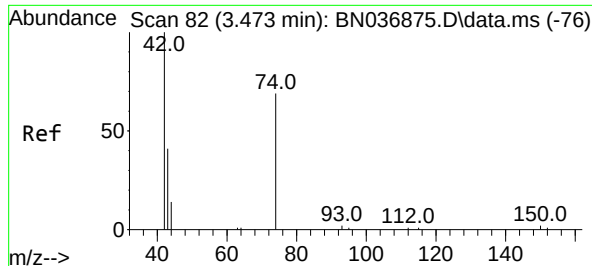
Tgt Ion:152 Resp: 357
Ion Ratio Lower Upper
152 100
150 137.6 123.0 184.6
115 73.4 60.1 90.1



#2
1,4-Dioxane
Concen: 0.249 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion: 88 Resp: 105
Ion Ratio Lower Upper
88 100
43 49.5 39.2 58.8
58 79.0 63.5 95.3

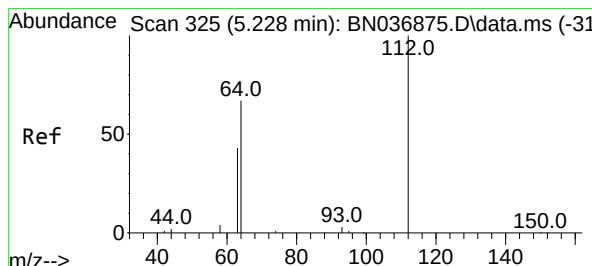
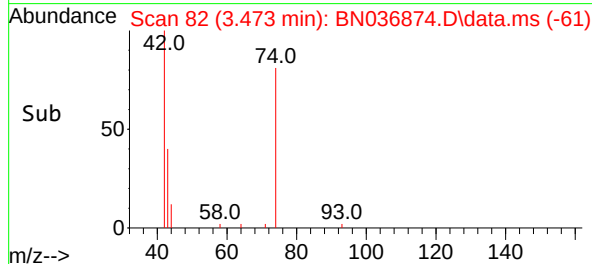
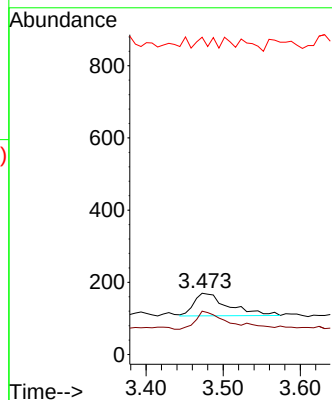
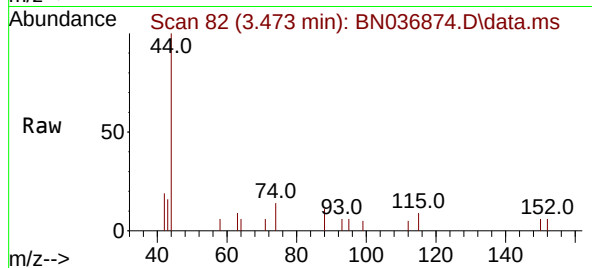




#3
n-Nitrosodimethylamine
Concen: 0.210 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

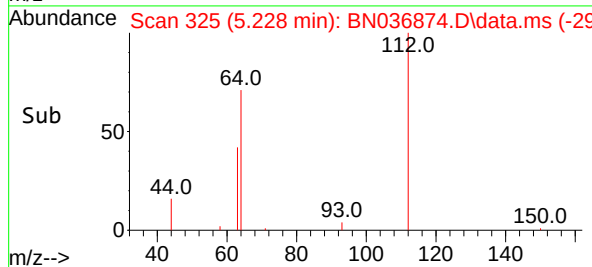
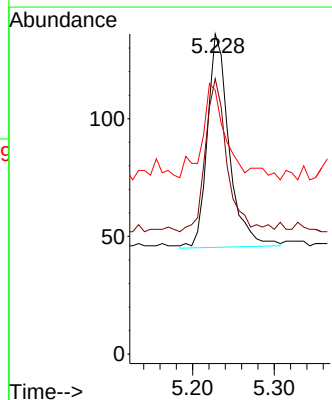
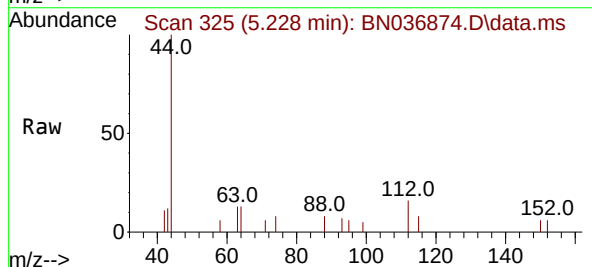
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

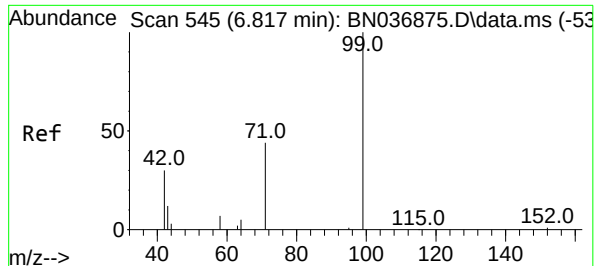
Tgt Ion: 42 Resp: 195
Ion Ratio Lower Upper
42 100
74 62.1 54.6 81.8
44 11.3 0.0 0.0#



#4
2-Fluorophenol
Concen: 0.198 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion: 112 Resp: 168
Ion Ratio Lower Upper
112 100
64 70.8 54.0 81.0
63 44.6 35.1 52.7

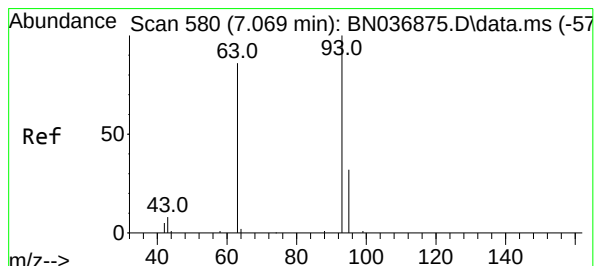
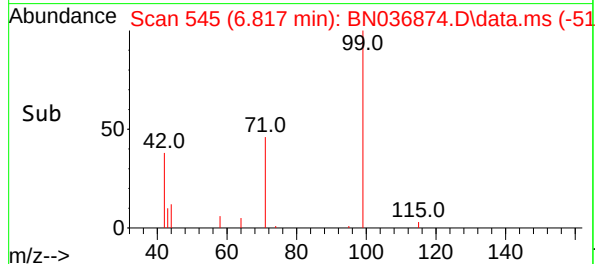
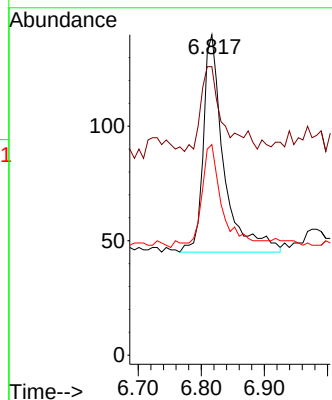
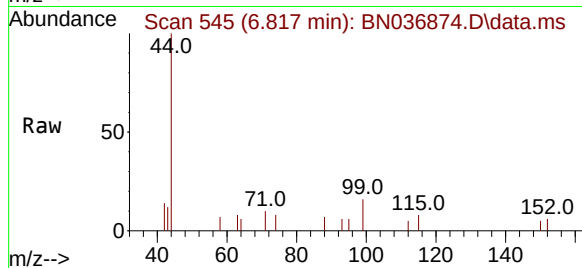




#5
Phenol-d6
Concen: 0.198 ng
RT: 6.817 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

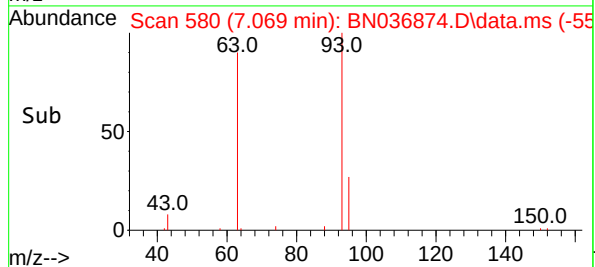
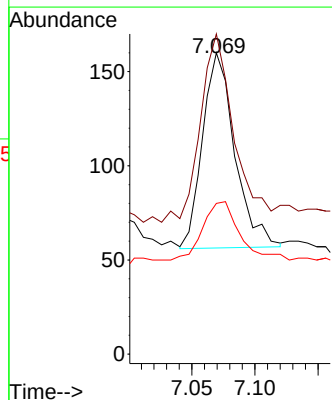
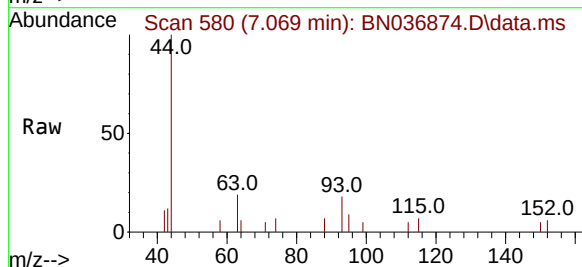
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

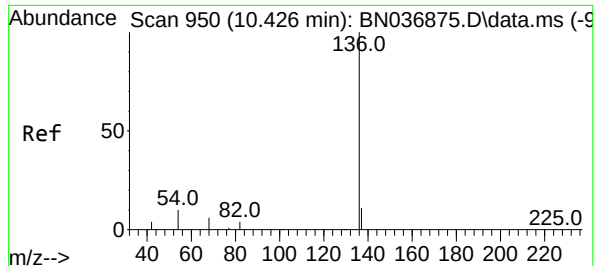
Tgt Ion: 99 Resp: 214
Ion Ratio Lower Upper
99 100
42 43.0 30.9 46.3
71 48.6 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.172 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion: 93 Resp: 184
Ion Ratio Lower Upper
93 100
63 113.6 76.4 114.6
95 35.3 26.1 39.1

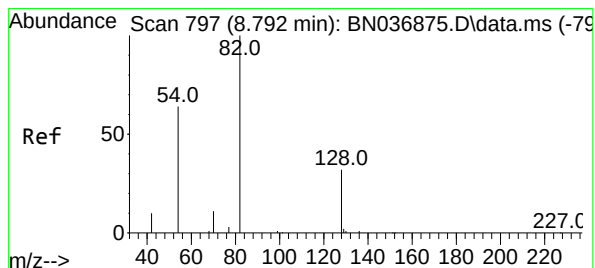
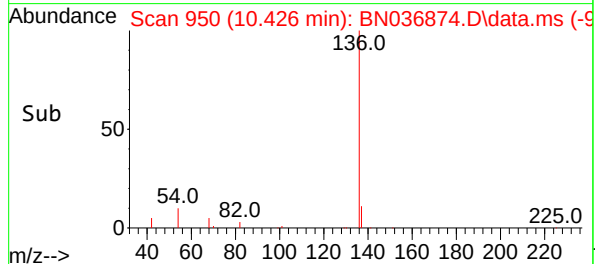
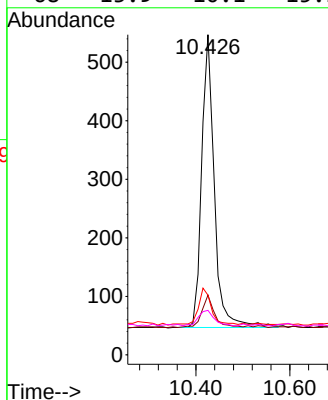
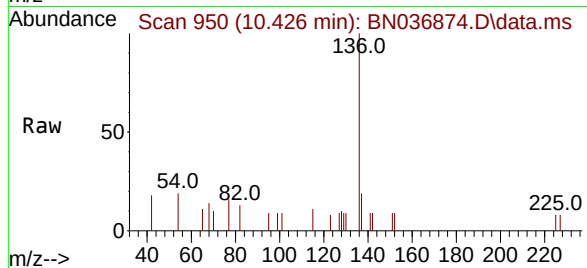




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

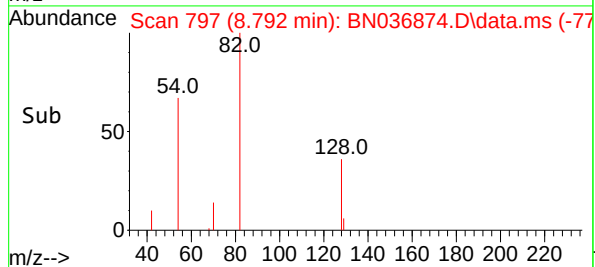
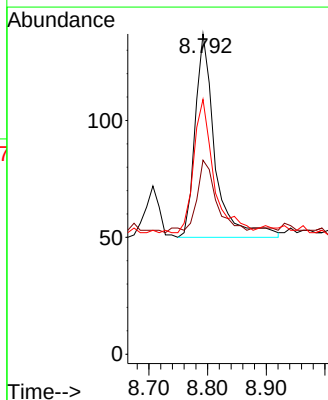
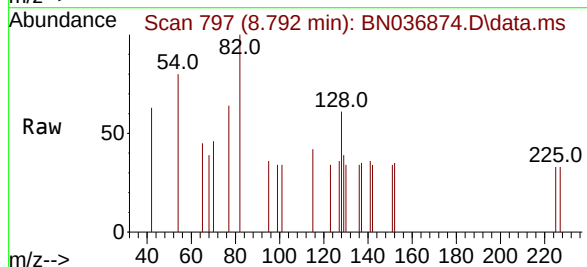
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

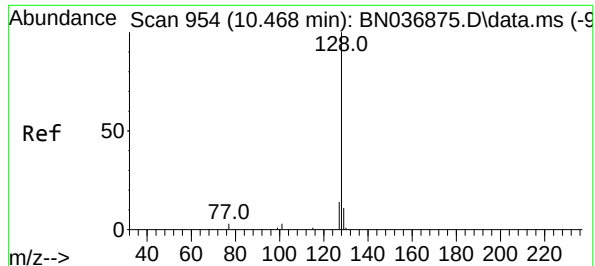
Tgt Ion:	136	Resp:	936
Ion	Ratio	Lower	Upper
136	100		
137	18.6	13.5	20.3
54	18.6	12.8	19.2
68	13.9	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.195 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion:	82	Resp:	205
Ion	Ratio	Lower	Upper
82	100		
128	60.6	35.5	53.3
54	79.6	56.2	84.4



#9
Naphthalene

Concen: 0.196 ng

RT: 10.468 min Scan# 954

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

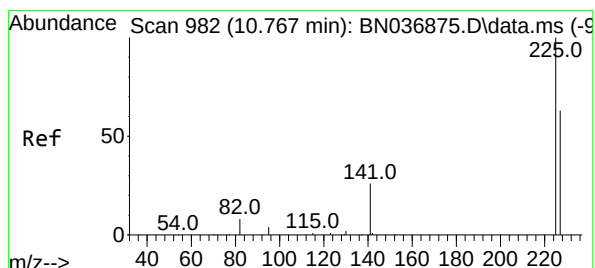
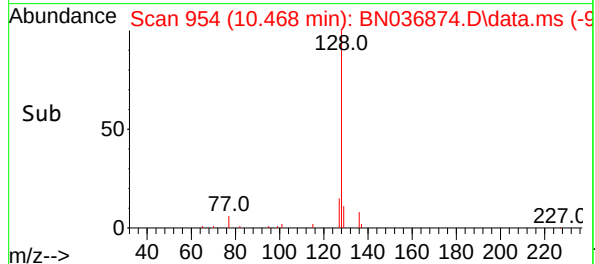
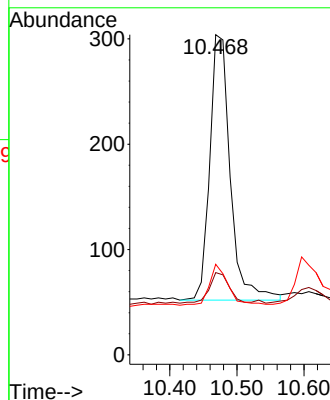
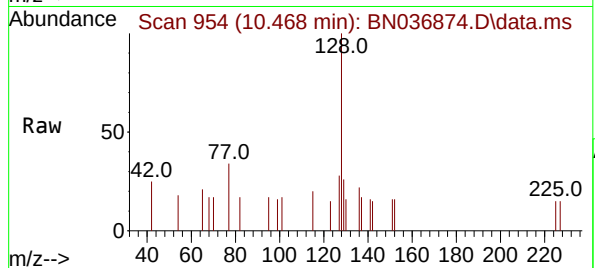
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:	128	Resp:	534
Ion	Ratio	Lower	Upper
128	100		
129	25.7	12.9	19.3#
127	28.3	15.0	22.6#



#10

Hexachlorobutadiene

Concen: 0.196 ng

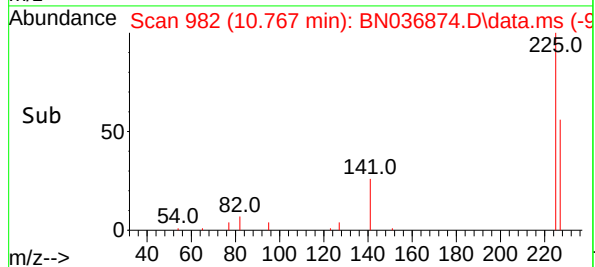
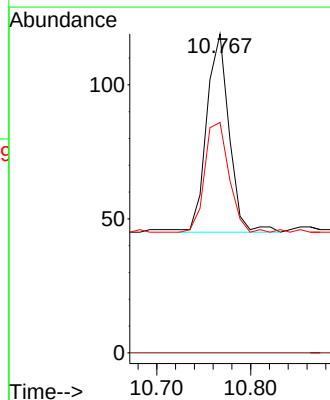
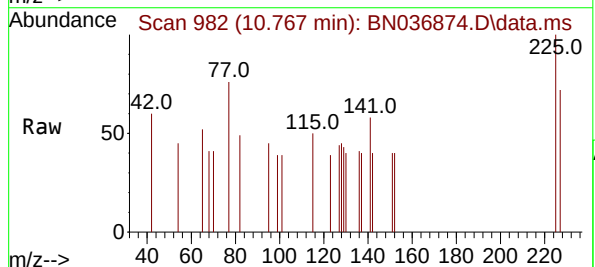
RT: 10.767 min Scan# 982

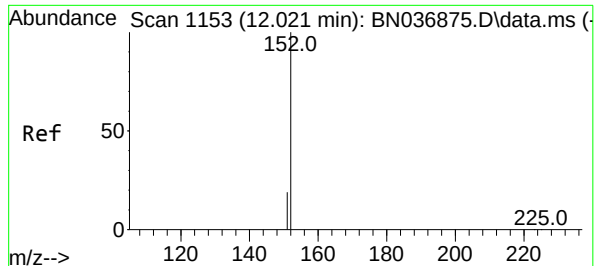
Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Tgt Ion:	225	Resp:	122
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.7	50.5	75.7

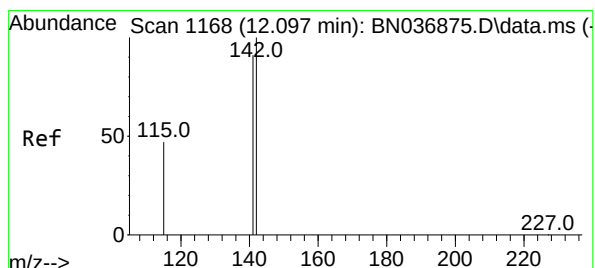
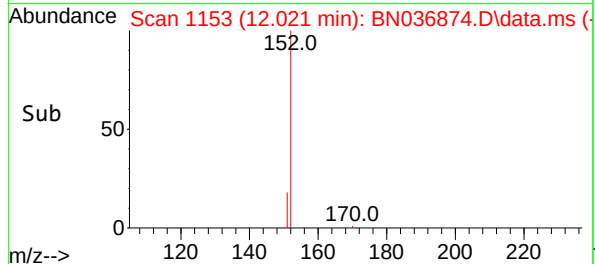
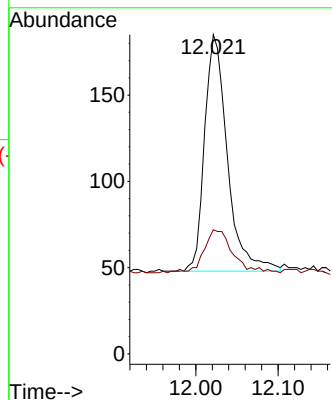
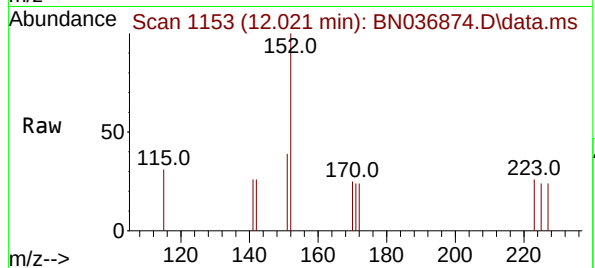




#11
2-Methylnaphthalene-d10
Concen: 0.193 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

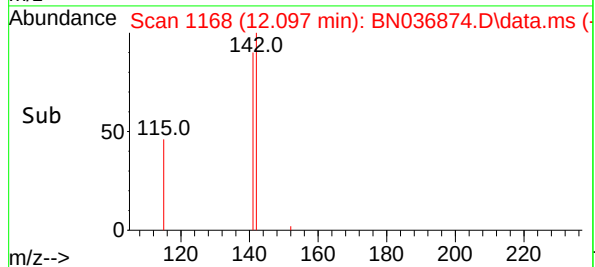
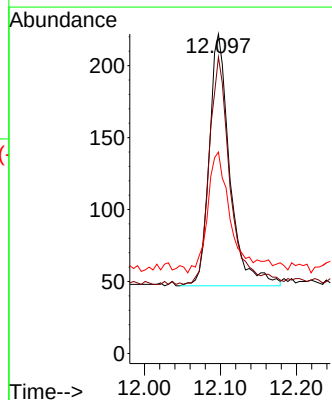
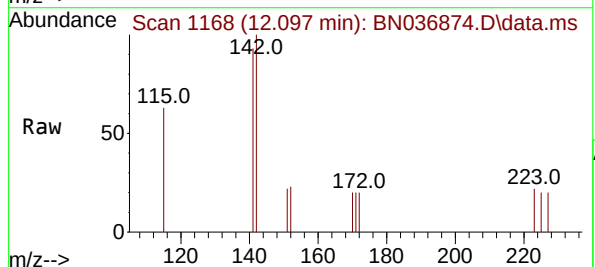
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

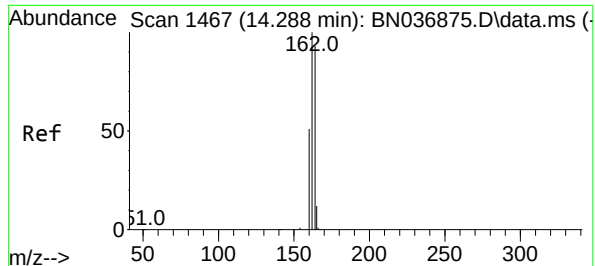
Tgt Ion:152 Resp: 264
Ion Ratio Lower Upper
152 100
151 22.3 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion:142 Resp: 329
Ion Ratio Lower Upper
142 100
141 92.8 73.8 110.8
115 63.1 43.3 64.9

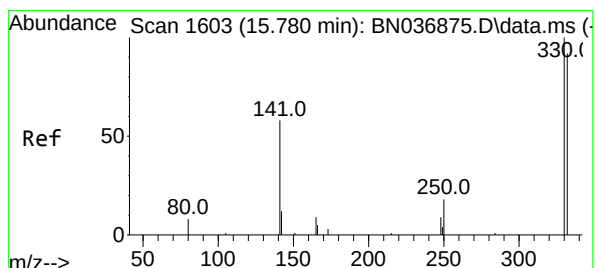
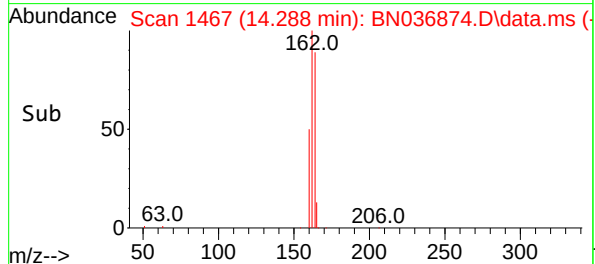
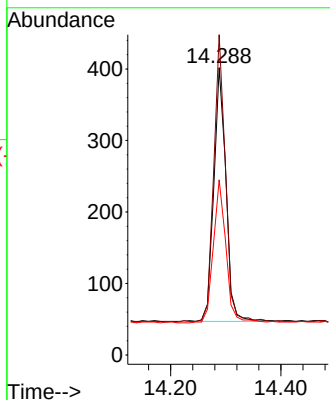
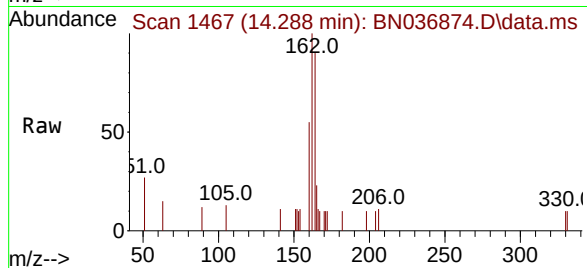




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

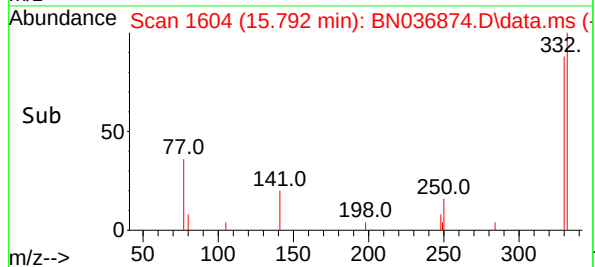
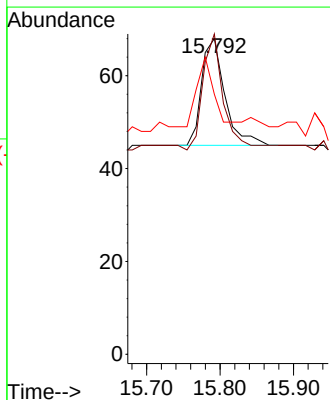
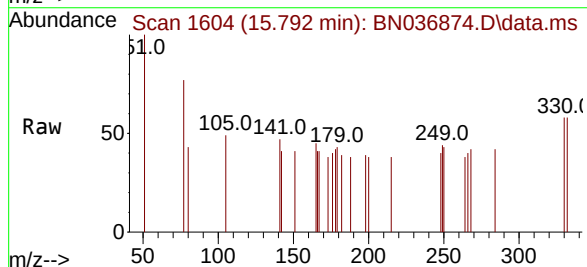
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

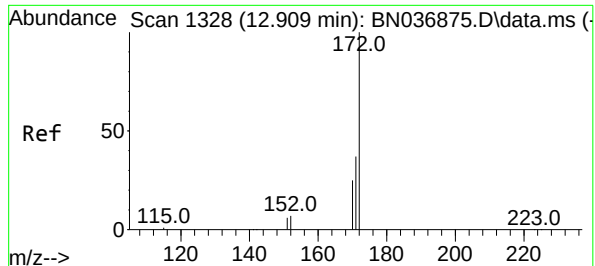
Tgt Ion:164 Resp: 543
Ion Ratio Lower Upper
164 100
162 111.4 85.7 128.5
160 60.9 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 0.194 ng
RT: 15.792 min Scan# 1604
Delta R.T. 0.012 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion:330 Resp: 51
Ion Ratio Lower Upper
330 100
332 94.1 87.0 130.6
141 47.1 45.3 67.9





#15

2-Fluorobiphenyl

Concen: 0.192 ng

RT: 12.914 min Scan# 1329

Delta R.T. 0.005 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

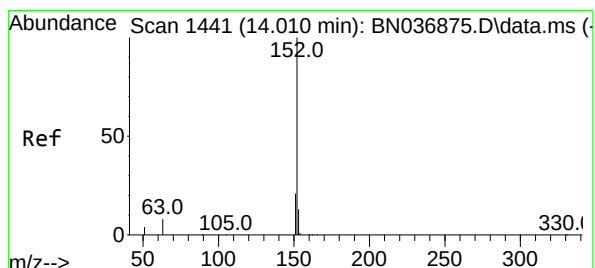
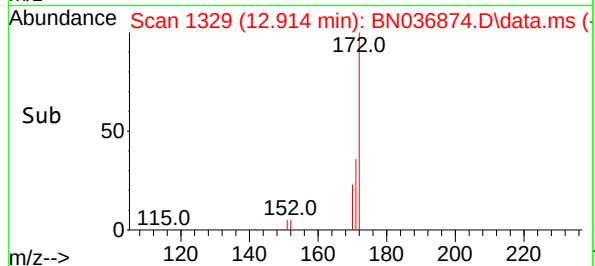
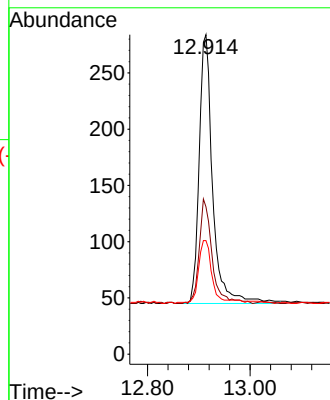
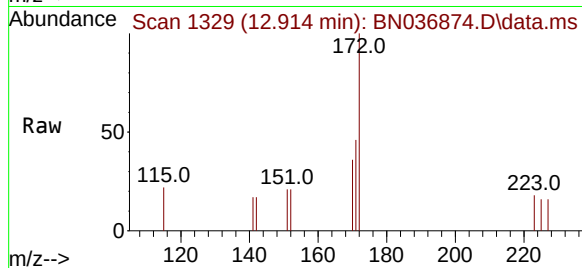
Tgt Ion:172 Resp: 505

Ion Ratio Lower Upper

172 100

171 46.1 32.7 49.1

170 35.6 23.3 34.9#



#16

Acenaphthylene

Concen: 0.195 ng

RT: 14.010 min Scan# 1441

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

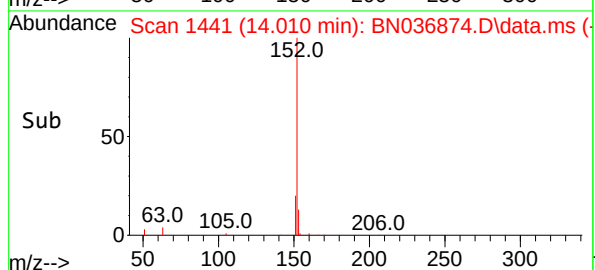
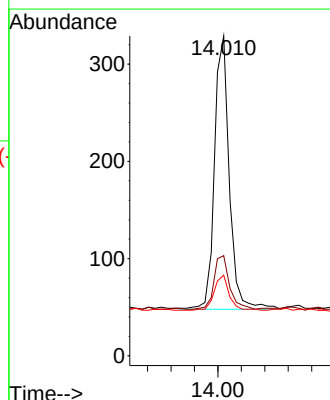
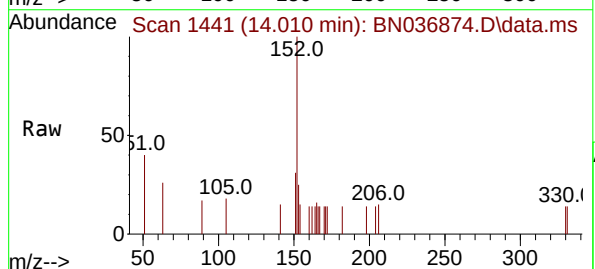
Tgt Ion:152 Resp: 491

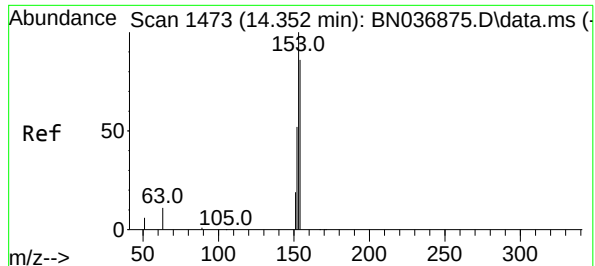
Ion Ratio Lower Upper

152 100

151 21.0 16.4 24.6

153 12.8 10.3 15.5

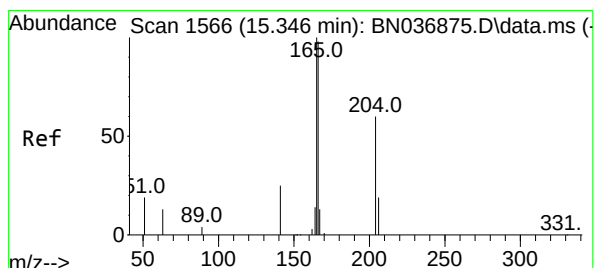
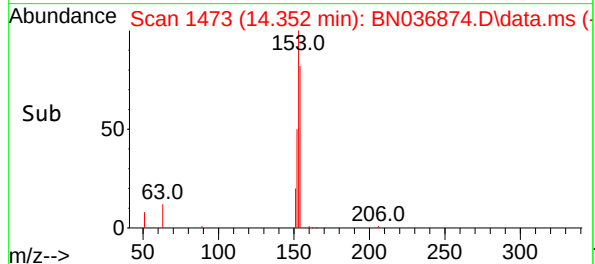
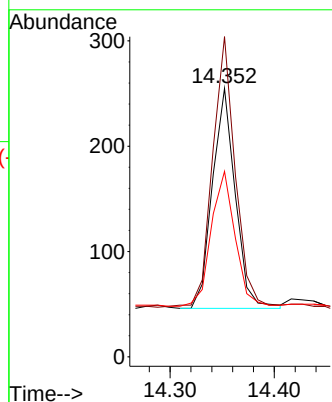
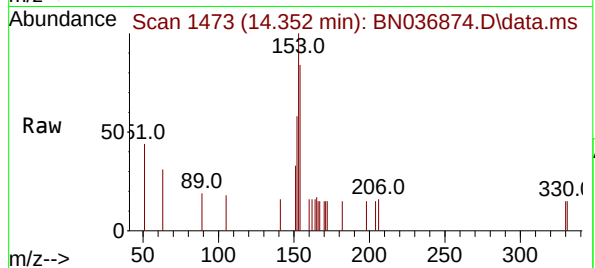




#17
Acenaphthene
Concen: 0.194 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

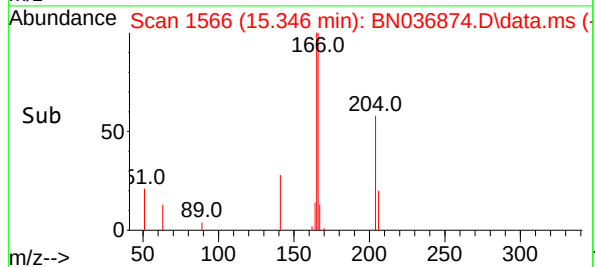
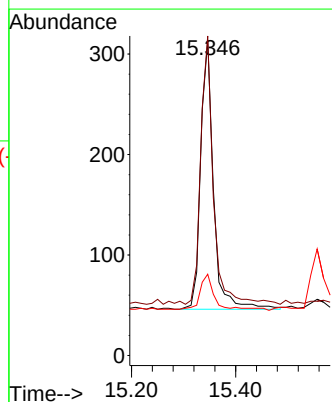
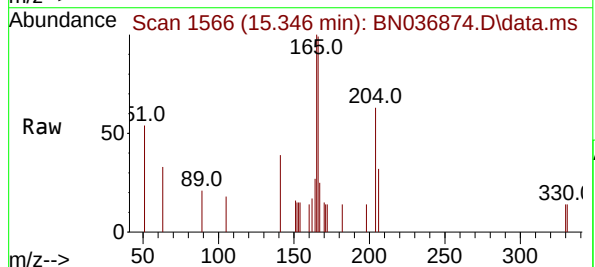
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

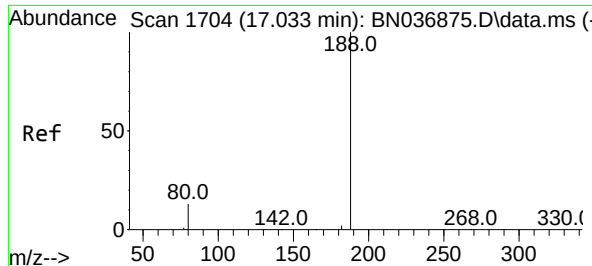
Tgt Ion:154 Resp: 319
Ion Ratio Lower Upper
154 100
153 121.6 97.8 146.6
152 64.6 52.7 79.1



#18
Fluorene
Concen: 0.203 ng
RT: 15.346 min Scan# 1566
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion:166 Resp: 461
Ion Ratio Lower Upper
166 100
165 97.8 83.2 124.8
167 13.2 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.033 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

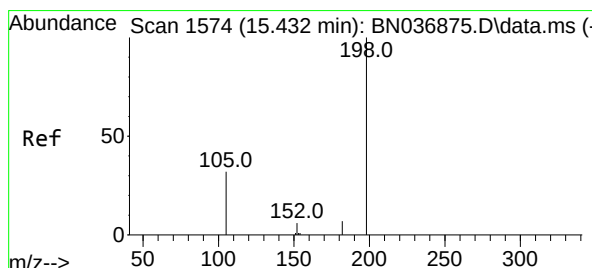
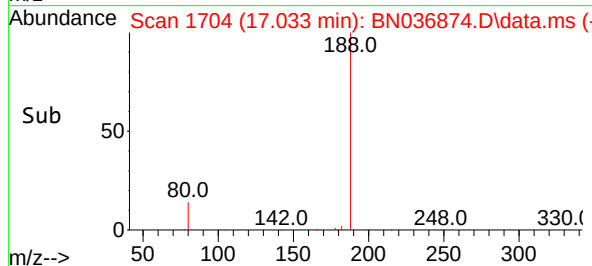
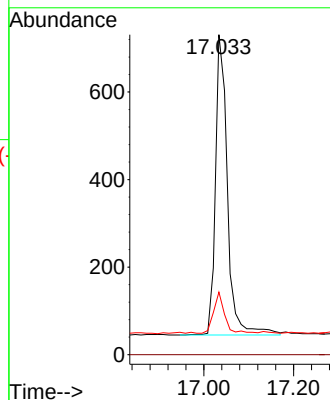
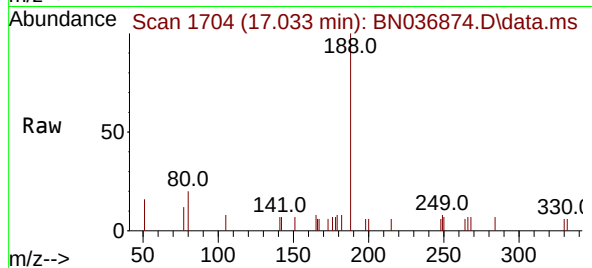
Tgt Ion:188 Resp: 1263

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 19.6 13.9 20.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.179 ng

RT: 15.432 min Scan# 1574

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

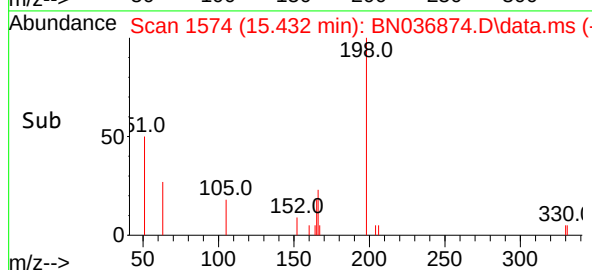
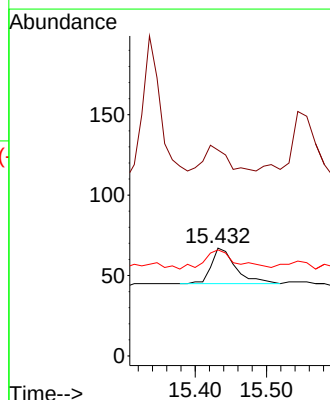
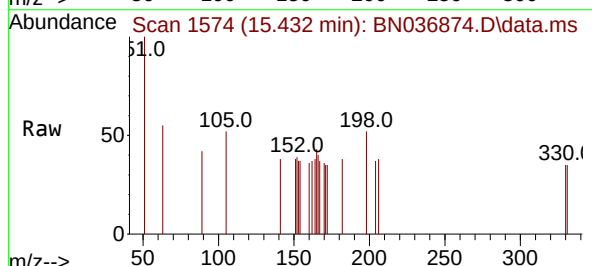
Tgt Ion:198 Resp: 53

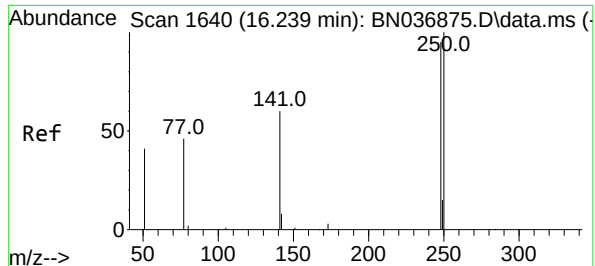
Ion Ratio Lower Upper

198 100

51 191.0 107.6 161.4#

105 98.5 55.2 82.8#

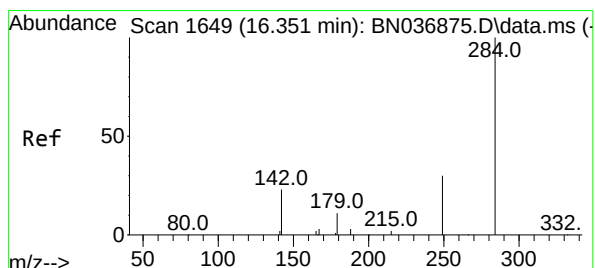
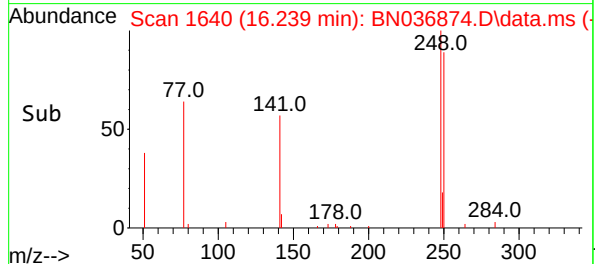
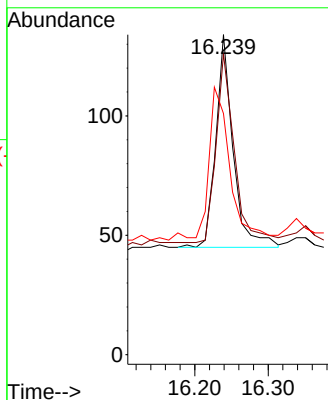
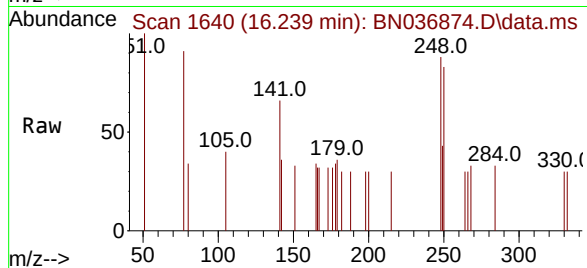




#21
4-Bromophenyl-phenylether
Concen: 0.191 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

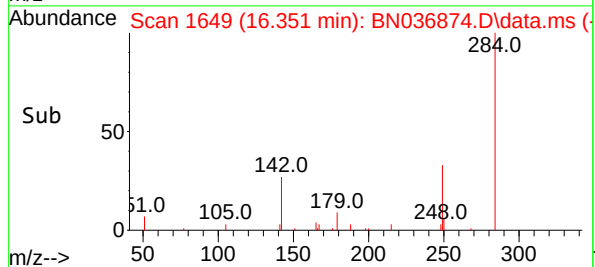
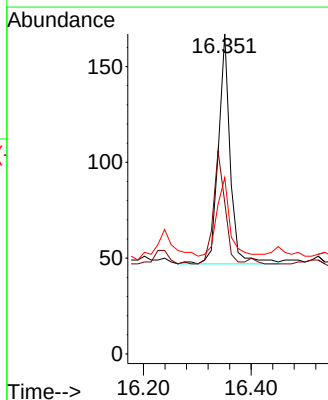
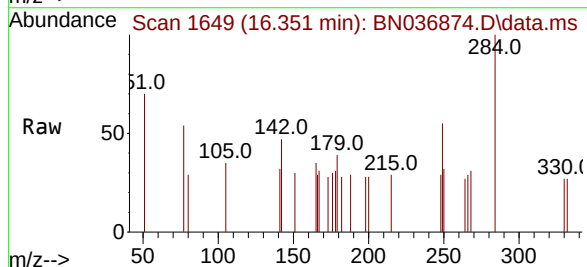
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

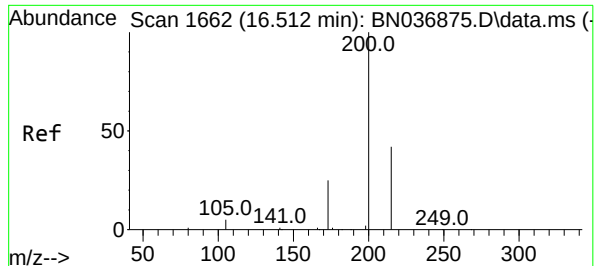
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.0	83.5	125.3
141	75.4	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.204 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.0	37.7	56.5
249	40.5	29.0	43.6

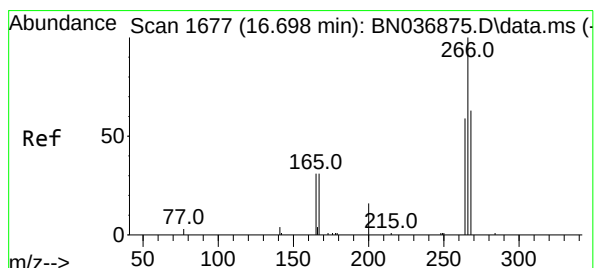
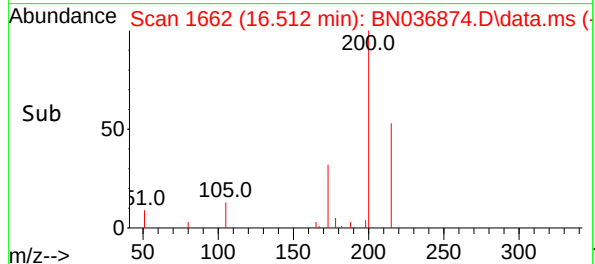
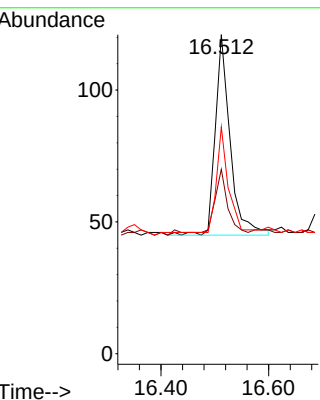
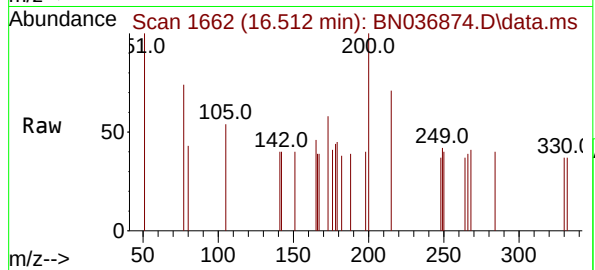




#23
Atrazine
Concen: 0.196 ng
RT: 16.512 min Scan# 1662
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

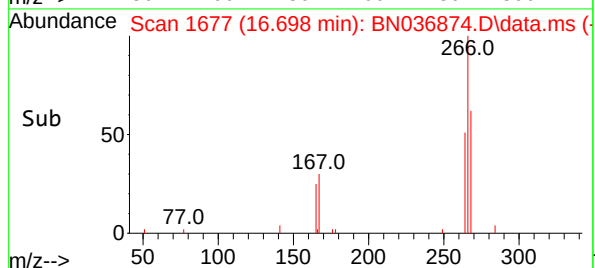
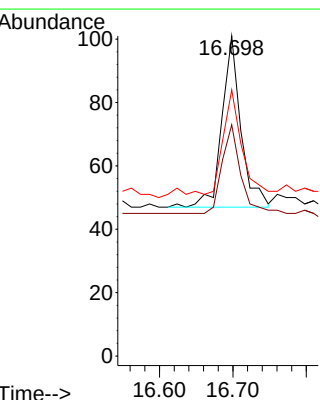
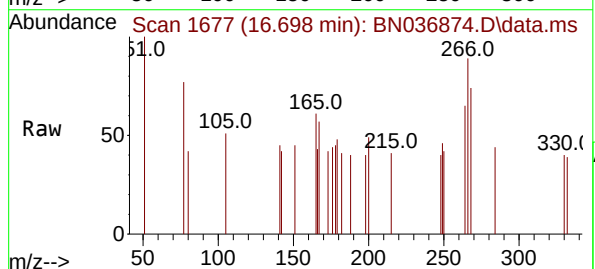
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

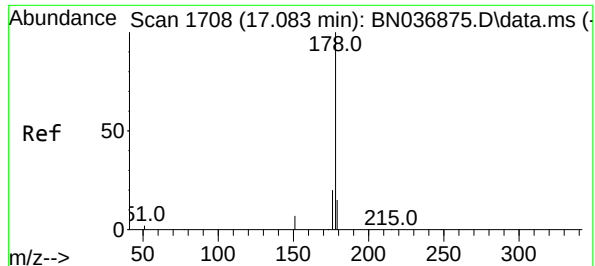
Tgt Ion:200 Resp: 147
Ion Ratio Lower Upper
200 100
173 57.9 28.6 43.0#
215 71.1 40.5 60.7#



#24
Pentachlorophenol
Concen: 0.207 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN036874.D
Acq: 11 Apr 2025 12:37

Tgt Ion:266 Resp: 97
Ion Ratio Lower Upper
266 100
264 50.5 44.6 66.8
268 58.8 51.8 77.6





#25

Phenanthrene

Concen: 0.182 ng

RT: 17.083 min Scan# 1708

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

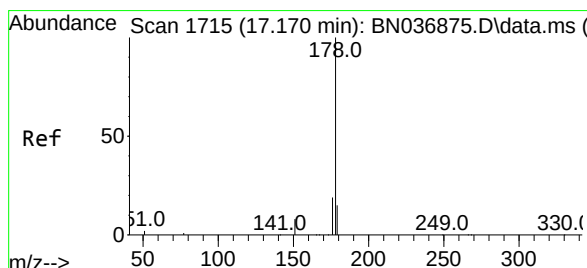
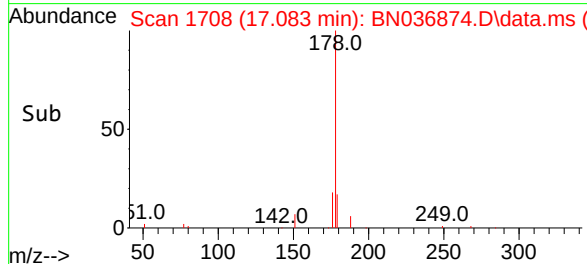
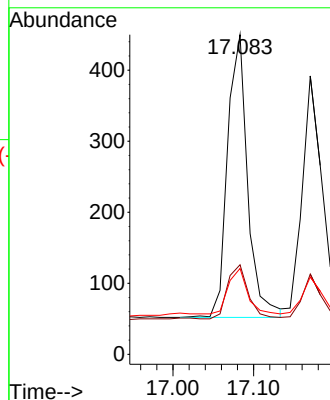
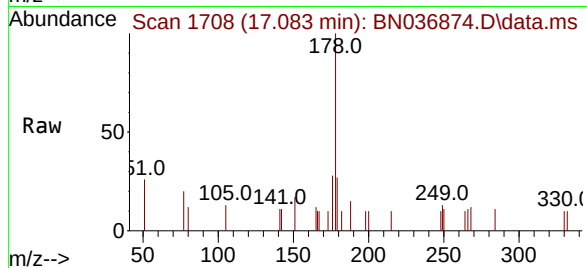
Tgt Ion:178 Resp: 690

Ion Ratio Lower Upper

178 100

176 19.9 16.6 25.0

179 16.2 12.8 19.2



#26

Anthracene

Concen: 0.188 ng

RT: 17.170 min Scan# 1715

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

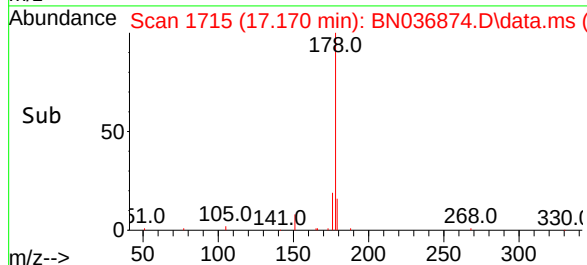
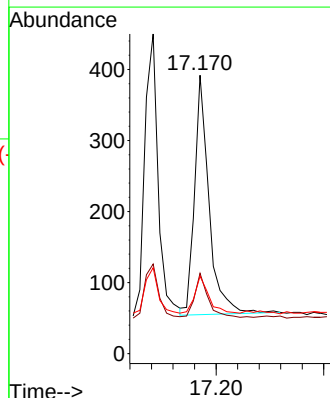
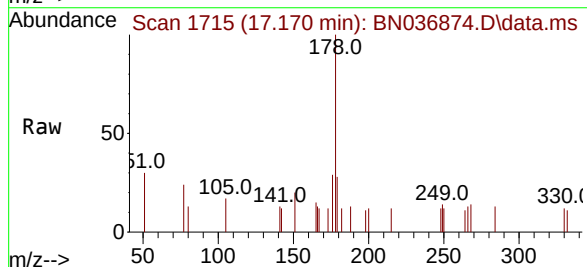
Tgt Ion:178 Resp: 631

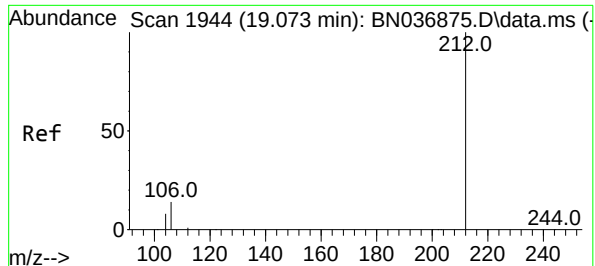
Ion Ratio Lower Upper

178 100

176 16.8 15.8 23.6

179 15.2 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.189 ng

RT: 19.077 min Scan# 1945

Delta R.T. 0.005 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

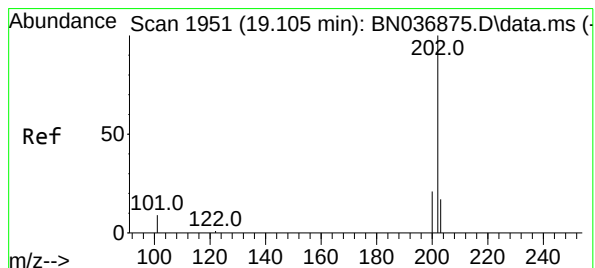
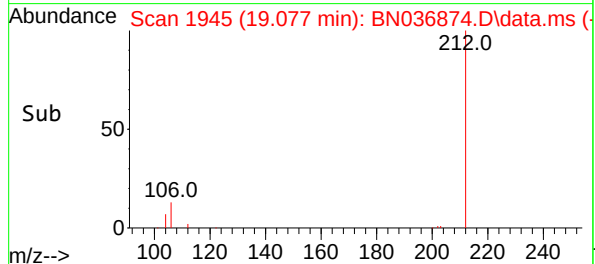
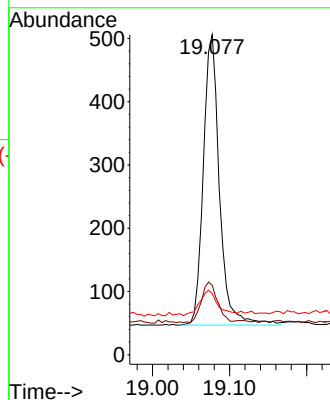
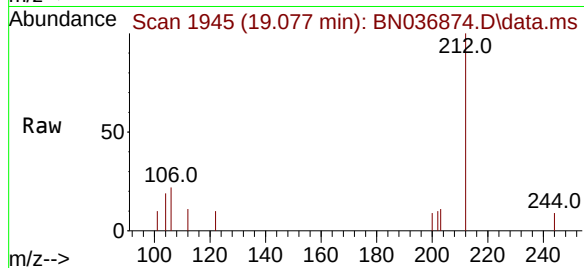
Tgt Ion:212 Resp: 669

Ion Ratio Lower Upper

212 100

106 13.8 11.2 16.8

104 9.7 7.5 11.3



#28

Fluoranthene

Concen: 0.187 ng

RT: 19.105 min Scan# 1951

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

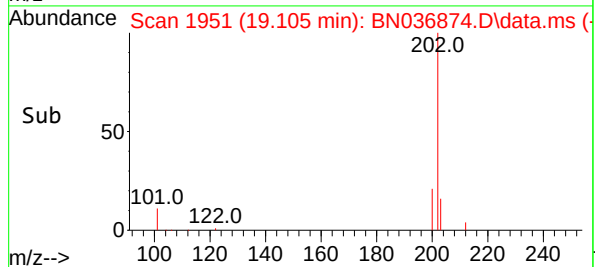
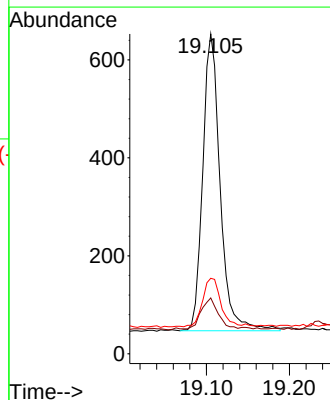
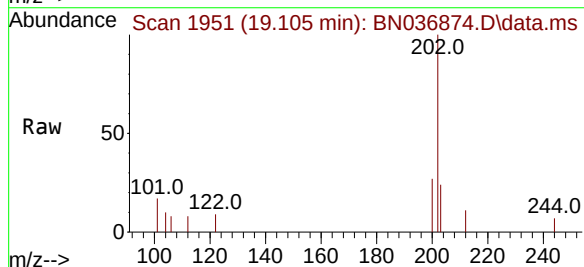
Tgt Ion:202 Resp: 887

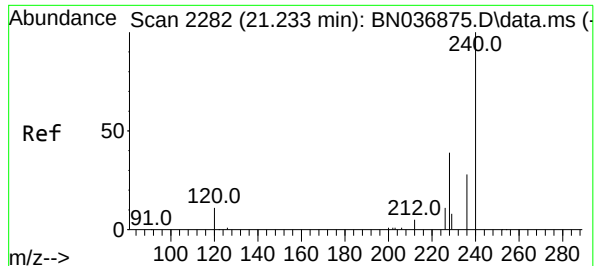
Ion Ratio Lower Upper

202 100

101 9.9 8.5 12.7

203 17.0 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

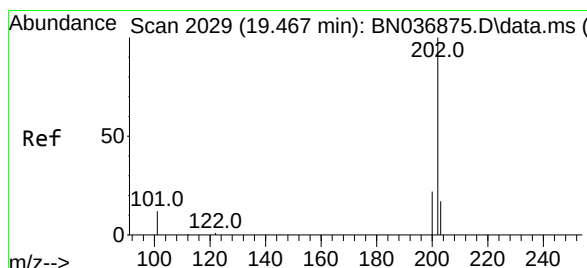
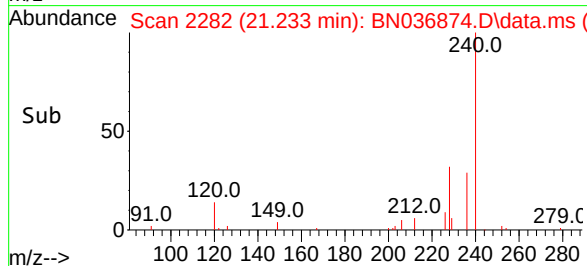
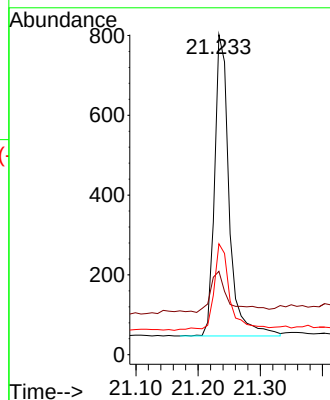
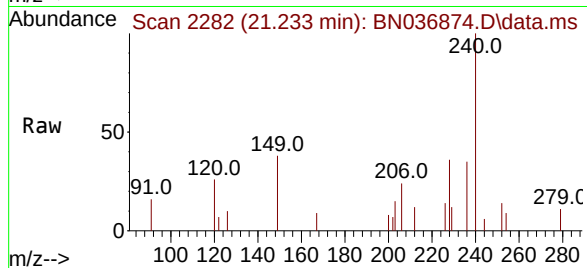
Tgt Ion:240 Resp: 1230

Ion Ratio Lower Upper

240 100

120 26.1 15.8 23.6#

236 34.7 25.8 38.8



#30

Pyrene

Concen: 0.199 ng

RT: 19.468 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

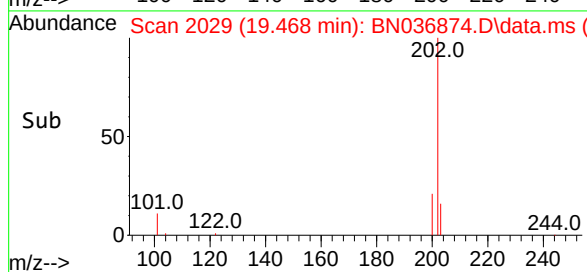
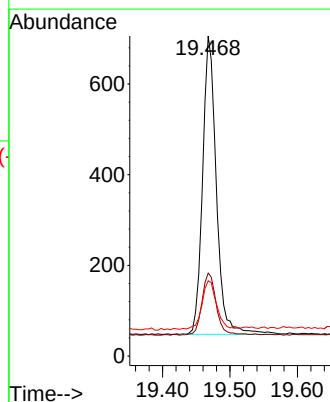
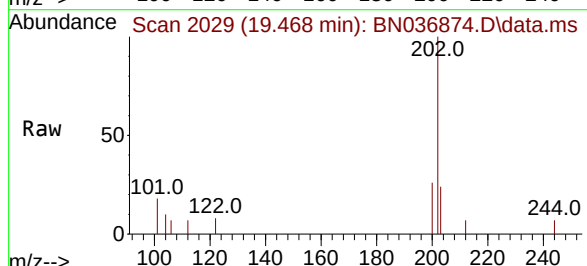
Tgt Ion:202 Resp: 930

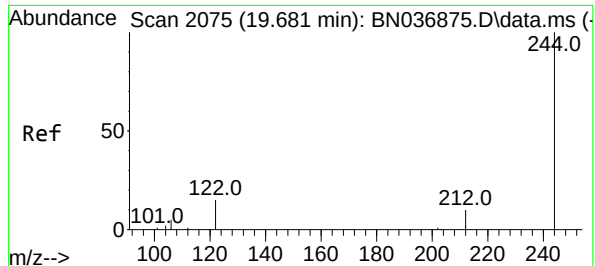
Ion Ratio Lower Upper

202 100

200 21.7 17.1 25.7

203 17.0 14.5 21.7





#31

Terphenyl-d14

Concen: 0.196 ng

RT: 19.681 min Scan# 2075

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

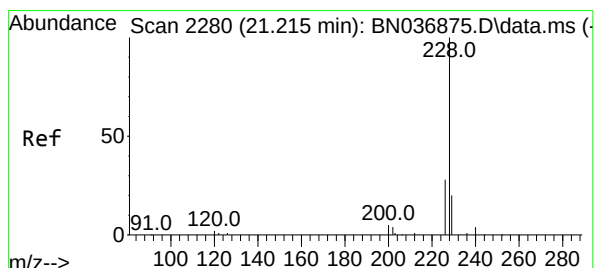
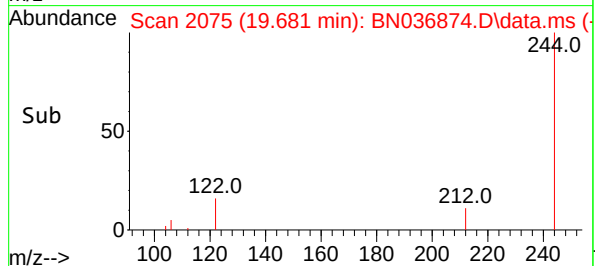
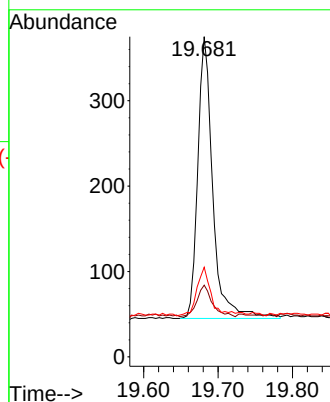
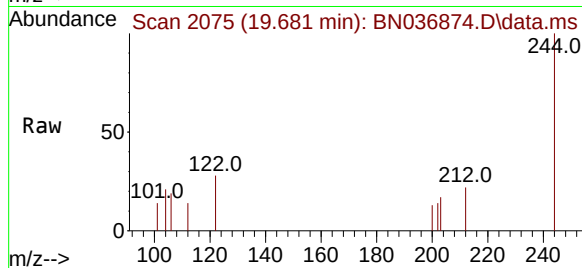
Tgt Ion:244 Resp: 462

Ion Ratio Lower Upper

244 100

212 22.4 11.6 17.4#

122 28.0 14.9 22.3#



#32

Benzo(a)anthracene

Concen: 0.195 ng

RT: 21.224 min Scan# 2281

Delta R.T. 0.009 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

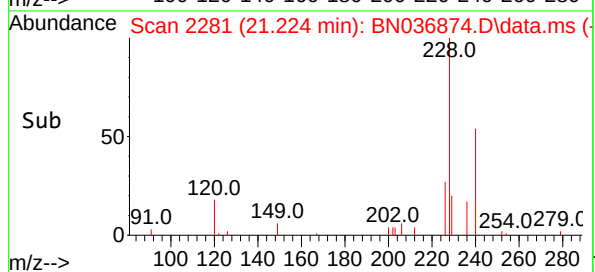
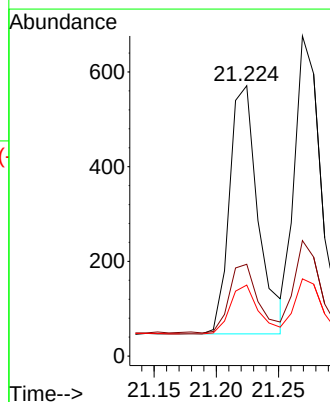
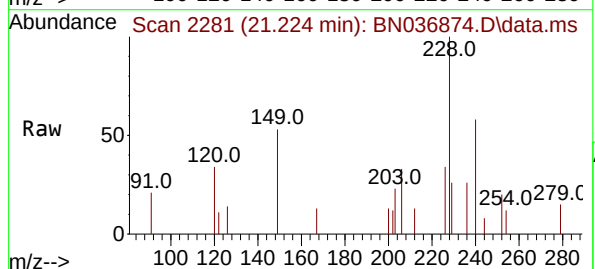
Tgt Ion:228 Resp: 843

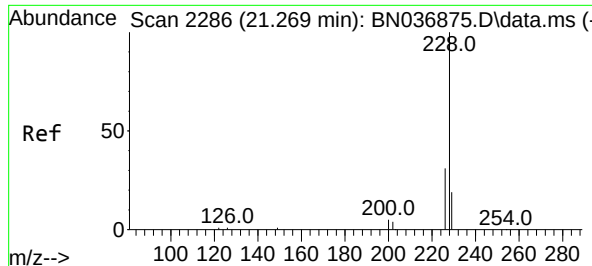
Ion Ratio Lower Upper

228 100

226 34.0 24.5 36.7

229 26.3 17.7 26.5





#33

Chrysene

Concen: 0.200 ng

RT: 21.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

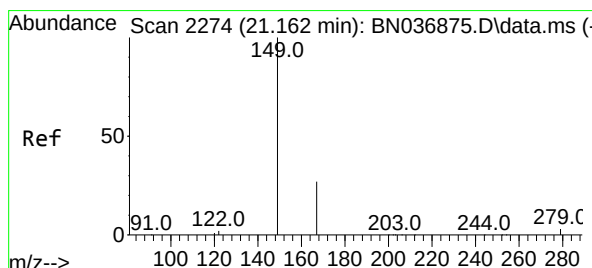
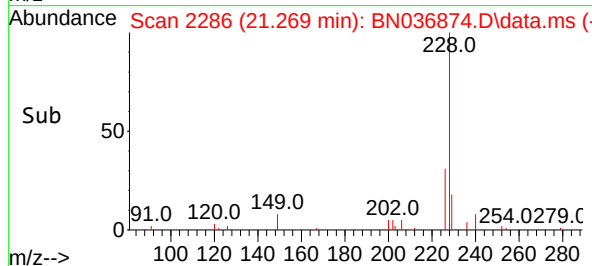
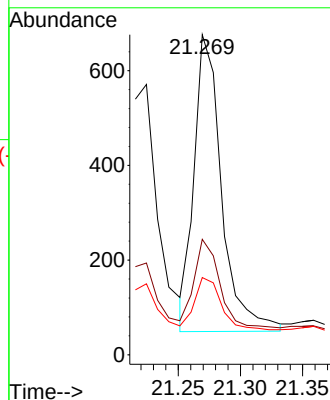
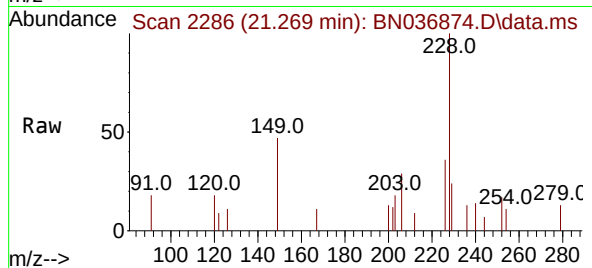
Tgt Ion:228 Resp: 964

Ion Ratio Lower Upper

228 100

226 36.1 26.1 39.1

229 24.1 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.225 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

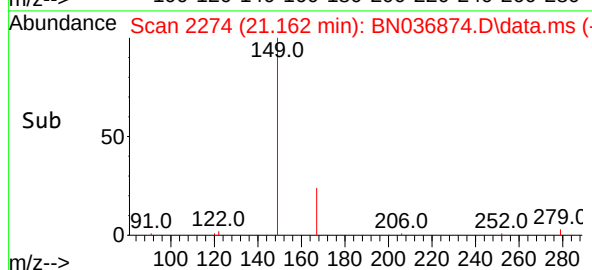
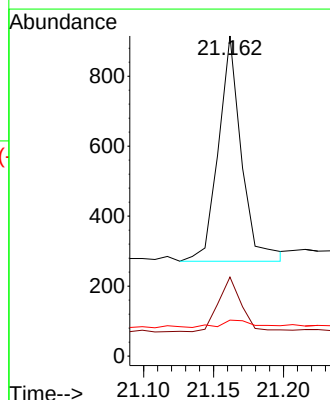
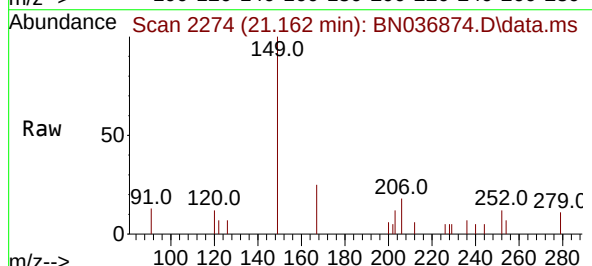
Tgt Ion:149 Resp: 736

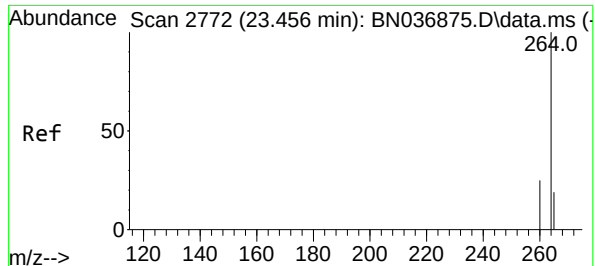
Ion Ratio Lower Upper

149 100

167 24.6 21.0 31.4

279 4.8 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.456 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

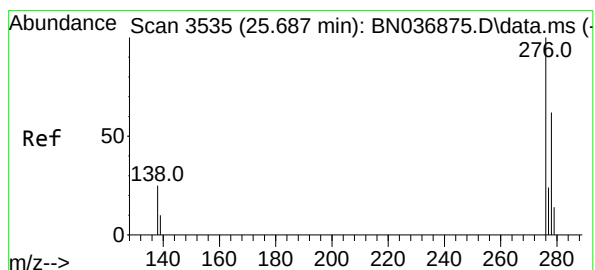
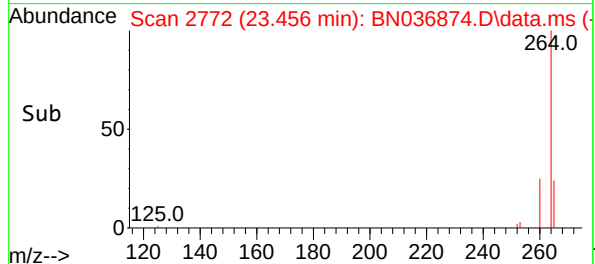
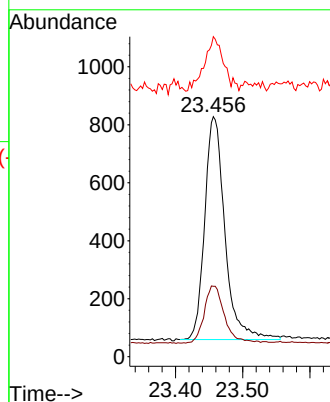
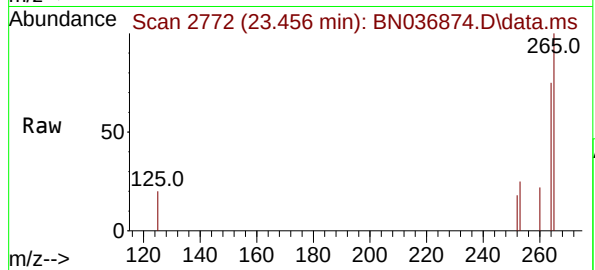
Tgt Ion:264 Resp: 1607

Ion Ratio Lower Upper

264 100

260 29.3 22.9 34.3

265 133.3 88.6 132.8#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.189 ng

RT: 25.693 min Scan# 3537

Delta R.T. 0.006 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

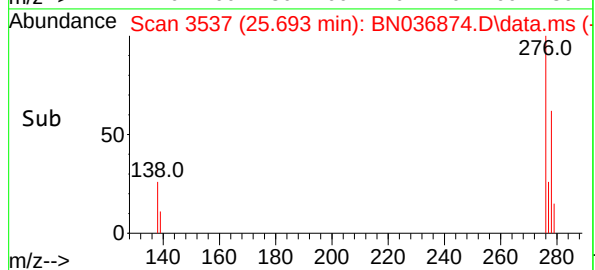
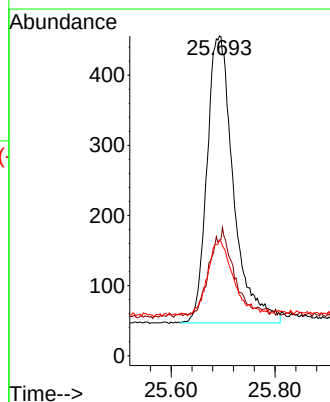
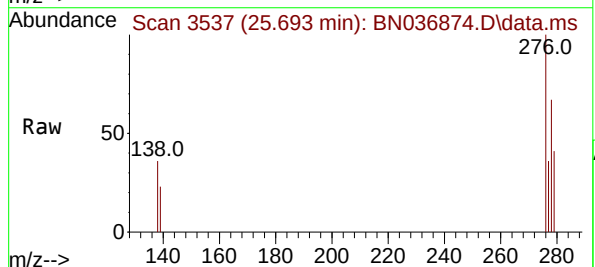
Tgt Ion:276 Resp: 1449

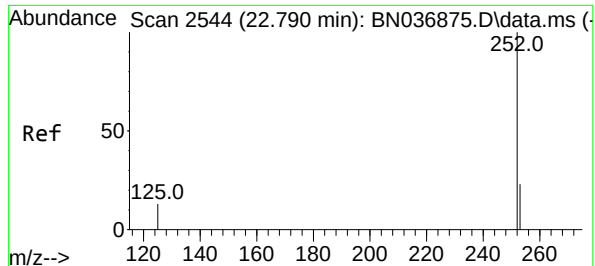
Ion Ratio Lower Upper

276 100

138 10.6 21.0 31.6#

277 24.2 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.793 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

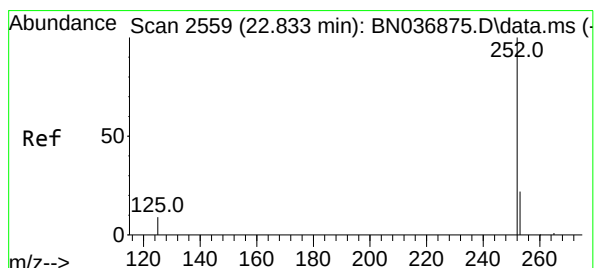
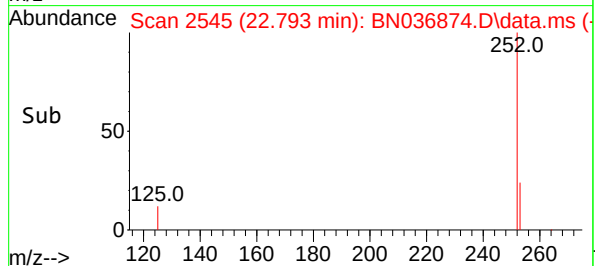
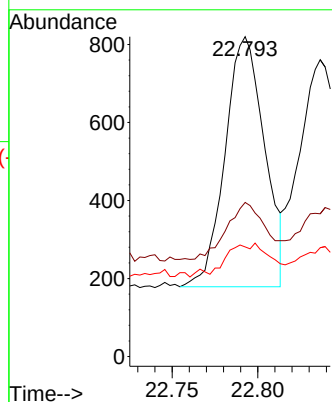
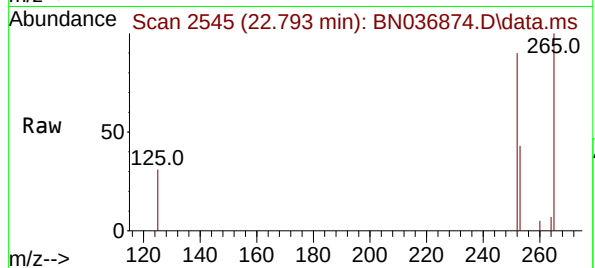
Tgt Ion:252 Resp: 1027

Ion Ratio Lower Upper

252 100

253 48.2 27.0 40.6#

125 34.3 17.7 26.5#



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 22.836 min Scan# 2560

Delta R.T. 0.003 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

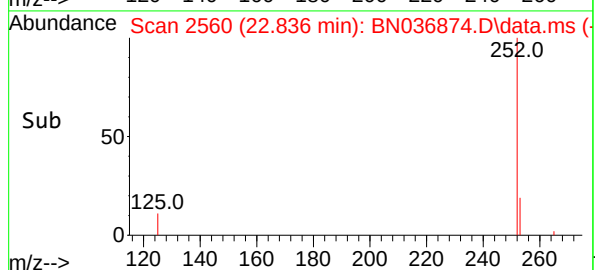
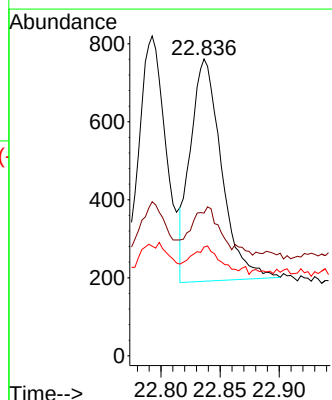
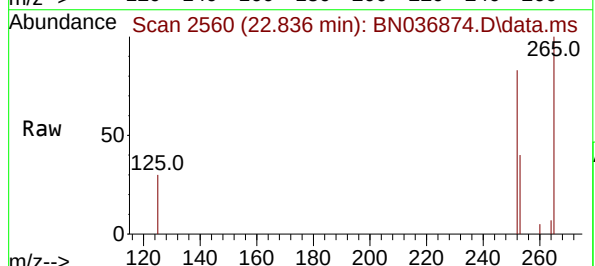
Tgt Ion:252 Resp: 1046

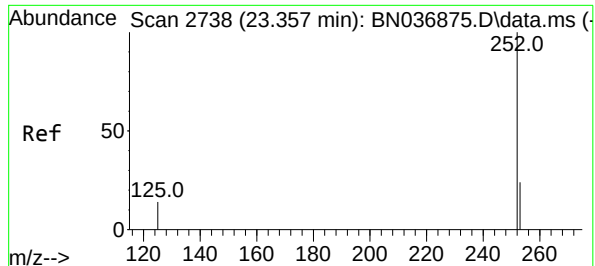
Ion Ratio Lower Upper

252 100

253 48.1 26.7 40.1#

125 36.7 16.9 25.3#





#39

Benzo(a)pyrene

Concen: 0.186 ng

RT: 23.357 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

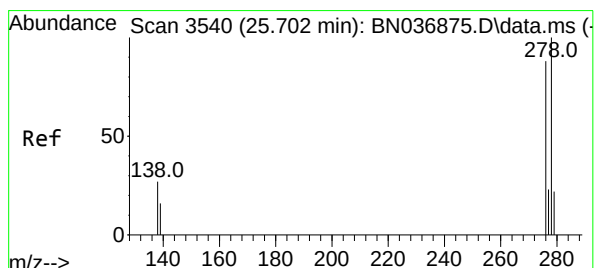
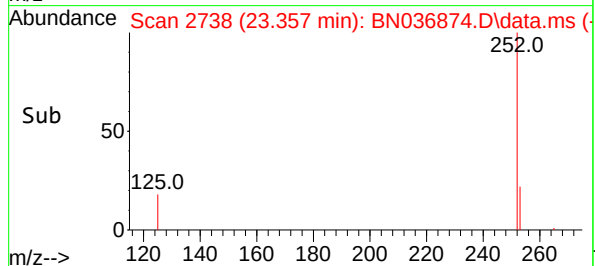
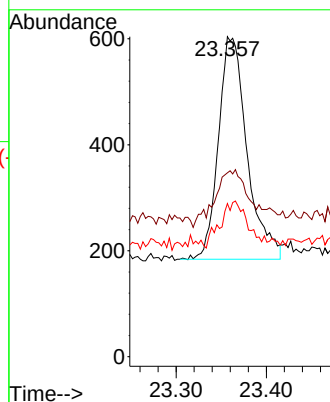
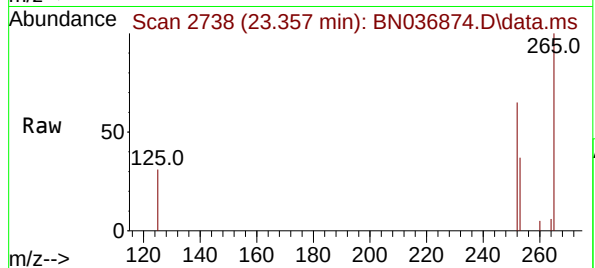
Tgt Ion:252 Resp: 927

Ion Ratio Lower Upper

252 100

253 57.5 31.5 47.3#

125 47.8 22.6 34.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.188 ng

RT: 25.702 min Scan# 3540

Delta R.T. 0.000 min

Lab File: BN036874.D

Acq: 11 Apr 2025 12:37

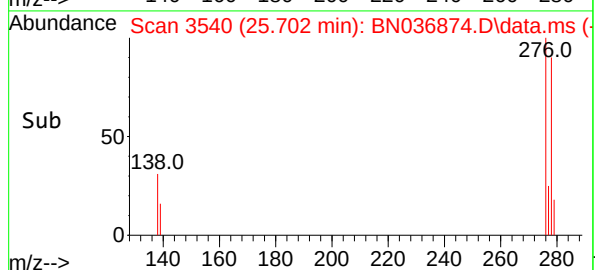
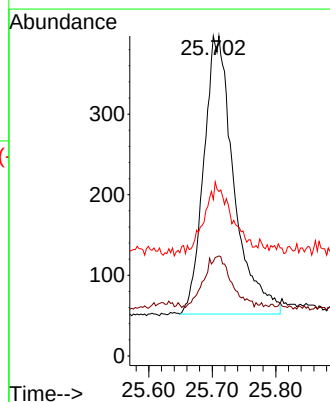
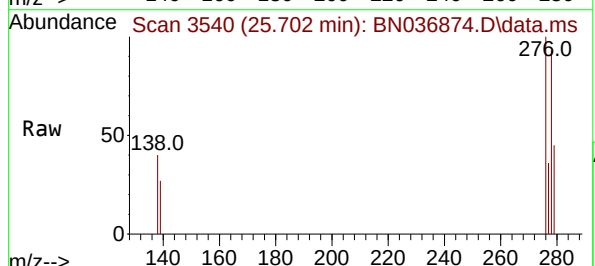
Tgt Ion:278 Resp: 1138

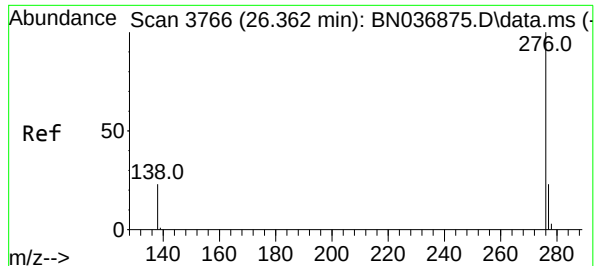
Ion Ratio Lower Upper

278 100

139 29.5 17.6 26.4#

279 48.9 26.7 40.1#





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.368 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036874.D

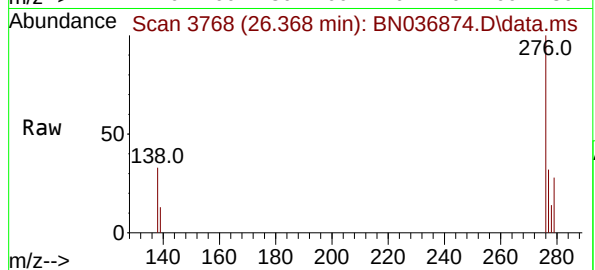
Acq: 11 Apr 2025 12:37

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



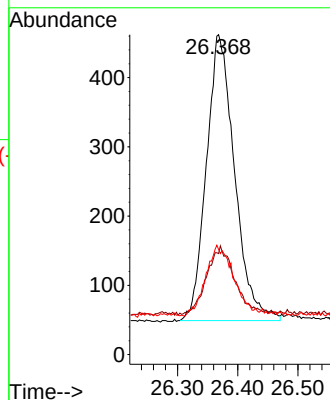
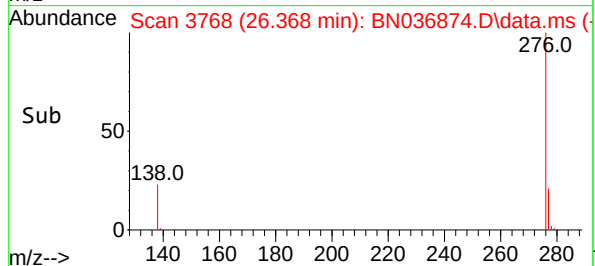
Tgt Ion:276 Resp: 1344

Ion Ratio Lower Upper

276 100

277 31.6 21.8 32.8

138 32.9 21.6 32.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036875.D
 Acq On : 11 Apr 2025 13:17
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Apr 11 15:35:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:32:59 2025
 Response via : Initial Calibration

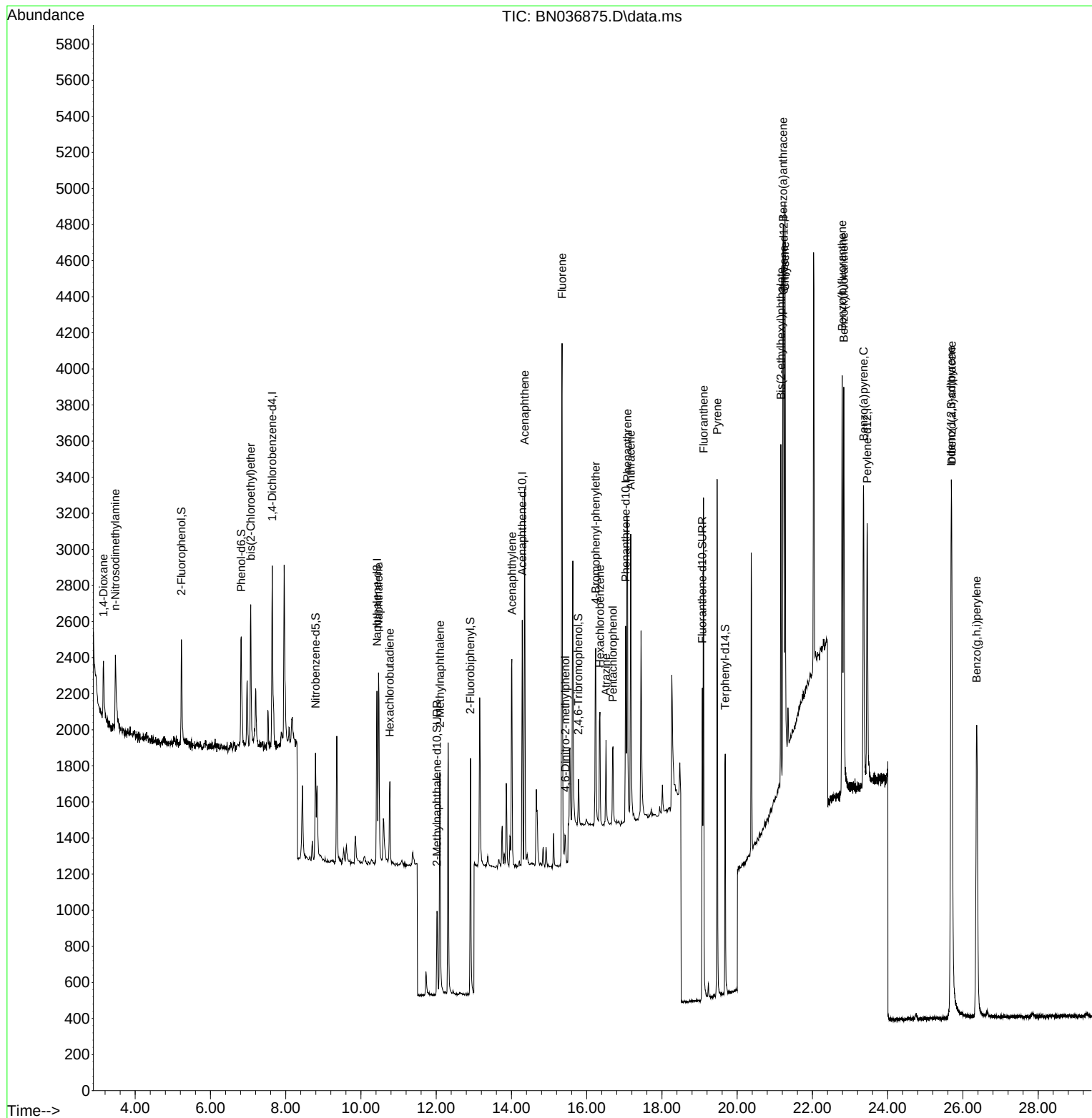
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	491	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	1260	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	744	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	1575	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1627	0.400	ng	0.00
35) Perylene-d12	23.456	264	1897	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	474	0.407	ng	0.00
5) Phenol-d6	6.817	99	588	0.396	ng	0.00
8) Nitrobenzene-d5	8.792	82	568	0.401	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	748	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	136	0.378	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	1498	0.416	ng	0.00
27) Fluoranthene-d10	19.073	212	1923	0.435	ng	0.00
31) Terphenyl-d14	19.681	244	1326	0.426	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	216	0.372	ng	# 78
3) n-Nitrosodimethylamine	3.473	42	532	0.416	ng	# 97
6) bis(2-Chloroethyl)ether	7.069	93	583	0.397	ng	100
9) Naphthalene	10.468	128	1474	0.403	ng	100
10) Hexachlorobutadiene	10.767	225	358	0.428	ng	# 100
12) 2-Methylnaphthalene	12.097	142	956	0.408	ng	100
16) Acenaphthylene	14.010	152	1407	0.407	ng	100
17) Acenaphthene	14.352	154	918	0.408	ng	100
18) Fluorene	15.346	166	1260	0.405	ng	100
20) 4,6-Dinitro-2-methylph...	15.432	198	150	0.407	ng	100
21) 4-Bromophenyl-phenylether	16.239	248	410	0.432	ng	100
22) Hexachlorobenzene	16.351	284	488	0.432	ng	100
23) Atrazine	16.512	200	414	0.444	ng	100
24) Pentachlorophenol	16.698	266	255	0.436	ng	100
25) Phenanthrene	17.083	178	2044	0.432	ng	100
26) Anthracene	17.170	178	1811	0.432	ng	100
28) Fluoranthene	19.105	202	2529	0.428	ng	100
30) Pyrene	19.467	202	2609	0.421	ng	100
32) Benzo(a)anthracene	21.215	228	2294	0.400	ng	100
33) Chrysene	21.269	228	2715	0.427	ng	100
34) Bis(2-ethylhexyl)phtha...	21.162	149	1665	0.384	ng	100
36) Indeno(1,2,3-cd)pyrene	25.687	276	3833	0.424	ng	100
37) Benzo(b)fluoranthene	22.790	252	2890	0.431	ng	100
38) Benzo(k)fluoranthene	22.833	252	2812	0.417	ng	100
39) Benzo(a)pyrene	23.357	252	2551	0.435	ng	100
40) Dibenzo(a,h)anthracene	25.702	278	3007	0.420	ng	100
41) Benzo(g,h,i)perylene	26.362	276	3425	0.420	ng	100

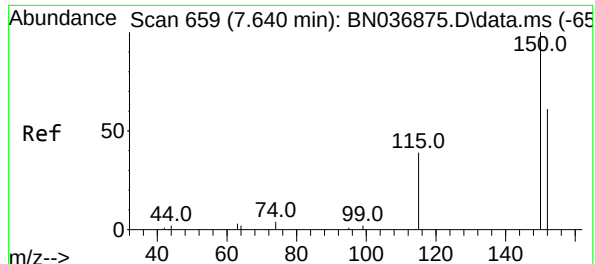
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036875.D
Acq On : 11 Apr 2025 13:17
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Apr 11 15:35:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

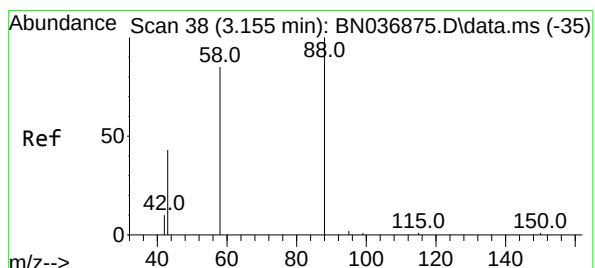
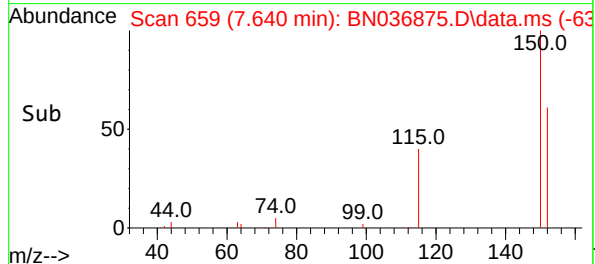
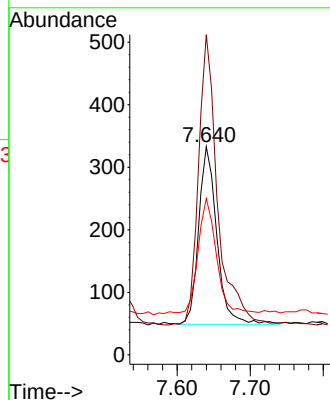
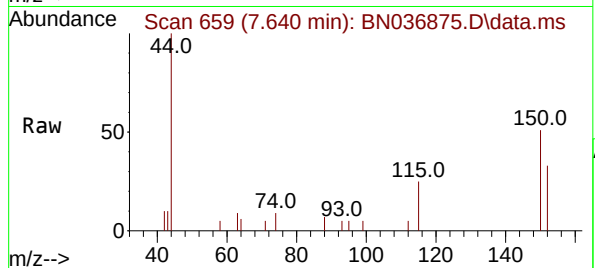




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

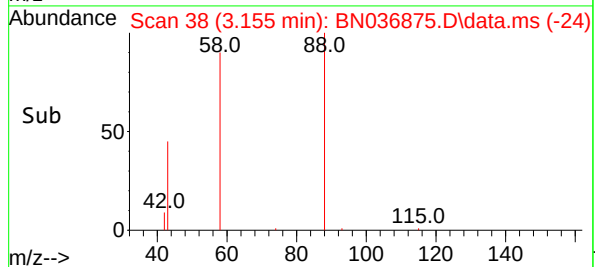
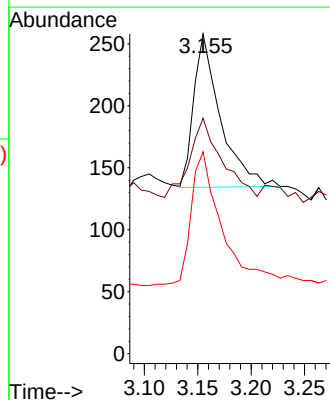
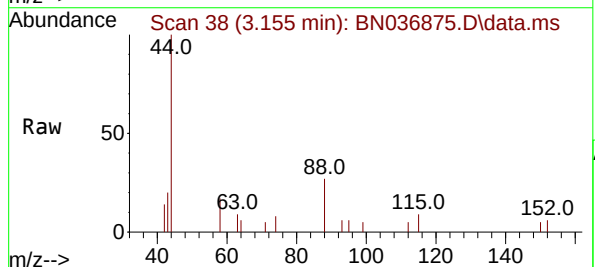
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

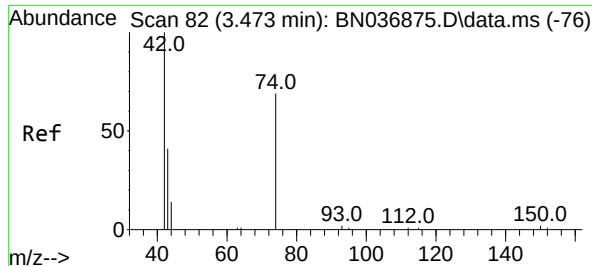
Tgt Ion:152 Resp: 491
Ion Ratio Lower Upper
152 100
150 153.8 123.0 184.6
115 75.1 60.1 90.1



#2
1,4-Dioxane
Concen: 0.372 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion: 88 Resp: 216
Ion Ratio Lower Upper
88 100
43 61.1 39.2 58.8#
58 100.5 63.5 95.3#

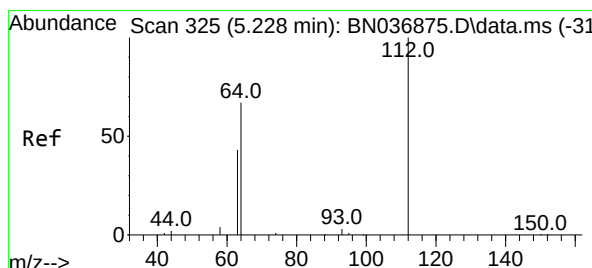
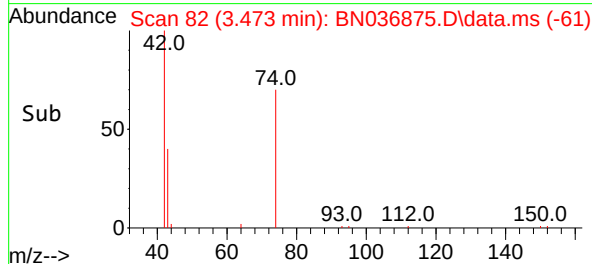
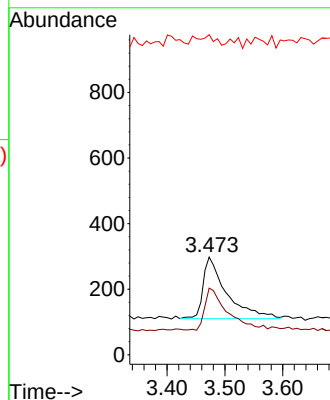
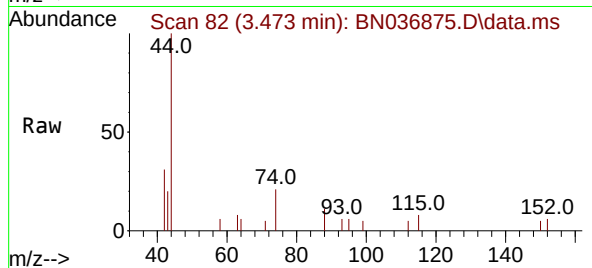




#3
n-Nitrosodimethylamine
Concen: 0.416 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

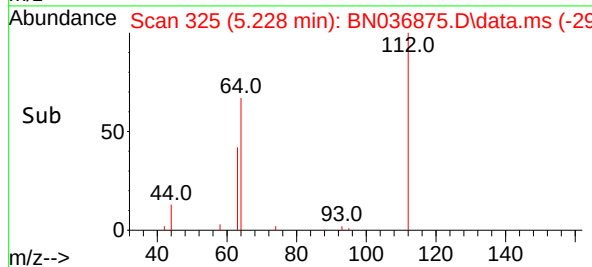
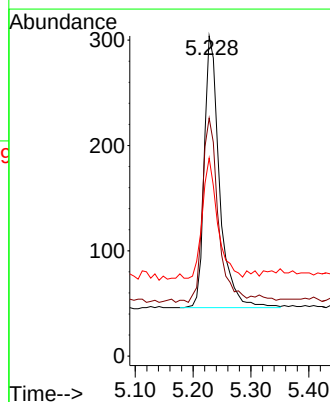
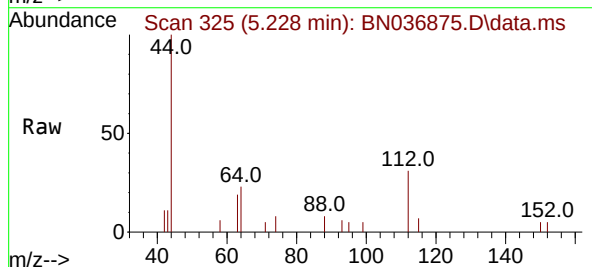
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

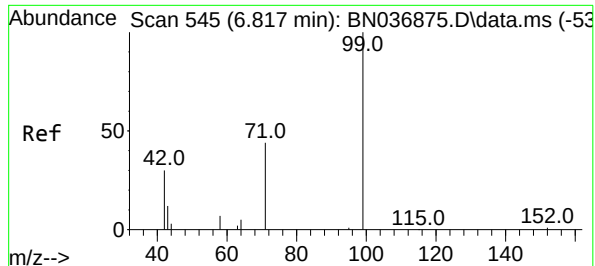
Tgt Ion: 42 Resp: 532
Ion Ratio Lower Upper
42 100
74 65.4 54.6 81.8
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.407 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion: 112 Resp: 474
Ion Ratio Lower Upper
112 100
64 67.5 54.0 81.0
63 43.9 35.1 52.7

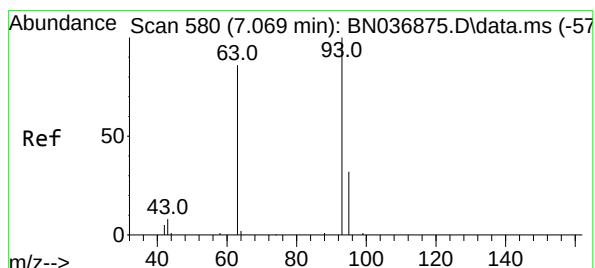
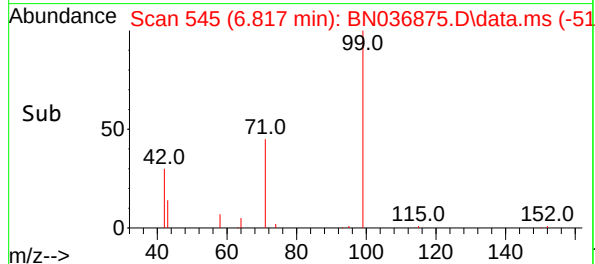
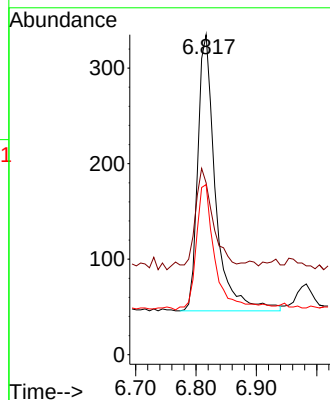
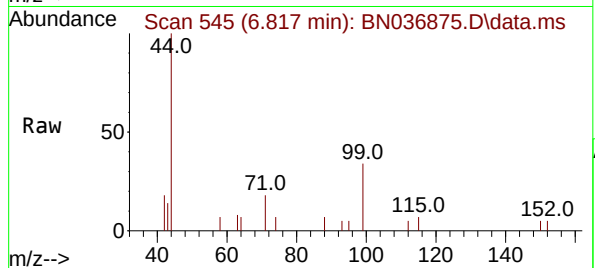




#5
Phenol-d6
Concen: 0.396 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

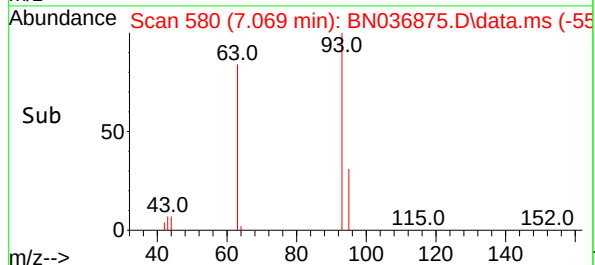
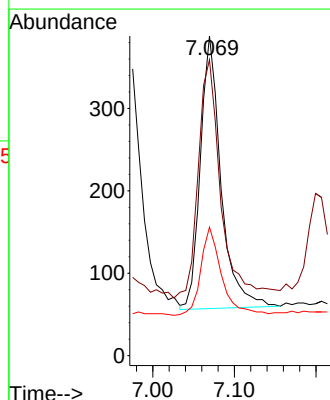
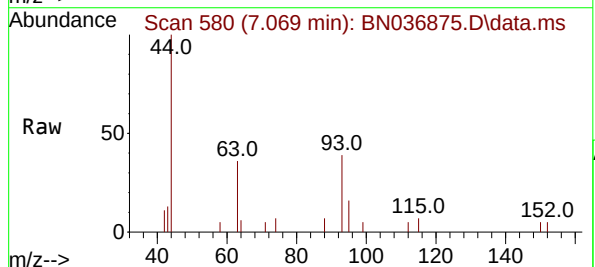
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

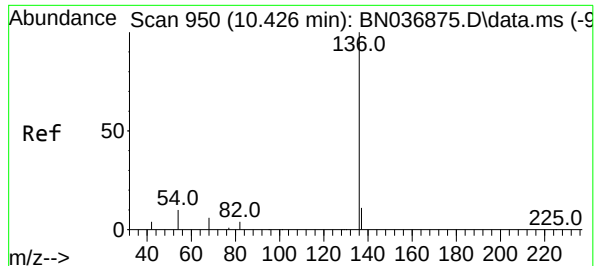
Tgt Ion: 99 Resp: 588
Ion Ratio Lower Upper
99 100
42 38.6 30.9 46.3
71 48.3 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.397 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion: 93 Resp: 583
Ion Ratio Lower Upper
93 100
63 95.5 76.4 114.6
95 32.6 26.1 39.1

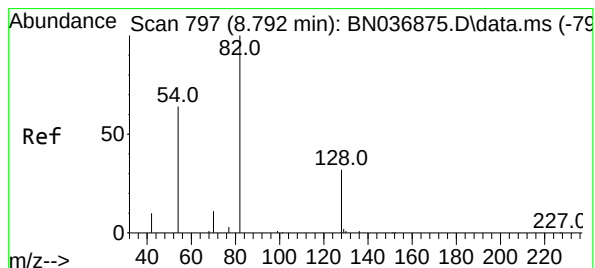
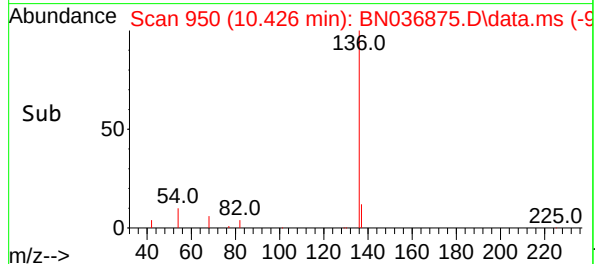
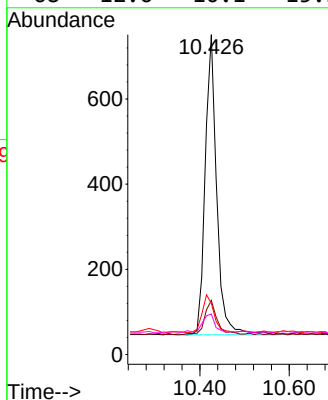
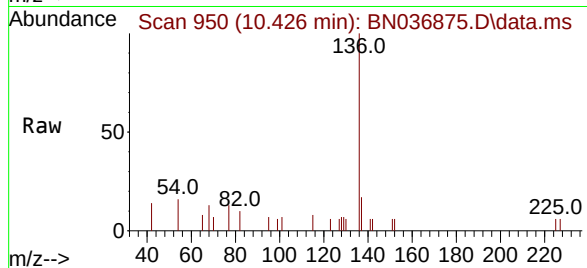




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

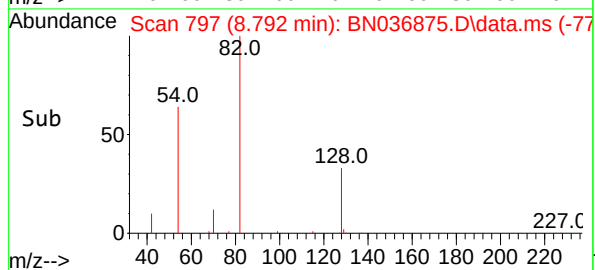
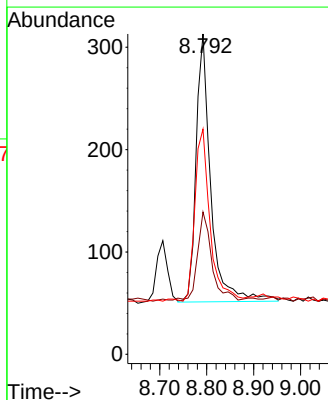
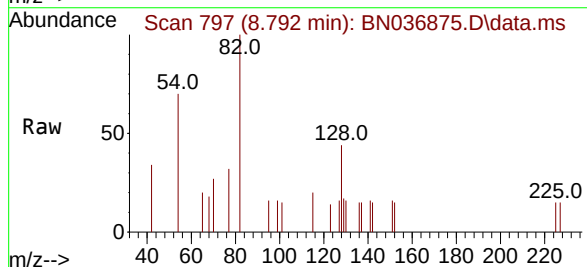
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

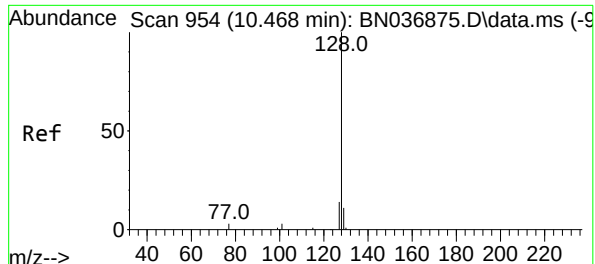
Tgt Ion:	136	Resp:	1260
Ion	Ratio	Lower	Upper
136	100		
137	16.9	13.5	20.3
54	16.0	12.8	19.2
68	12.6	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.401 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion:	82	Resp:	568
Ion	Ratio	Lower	Upper
82	100		
128	44.4	35.5	53.3
54	70.3	56.2	84.4

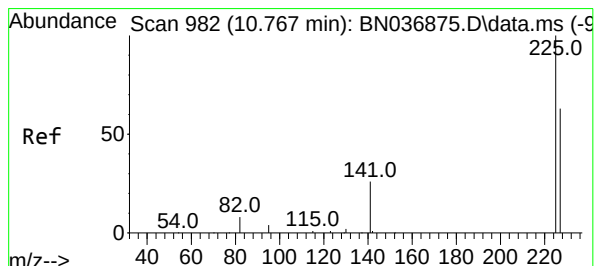
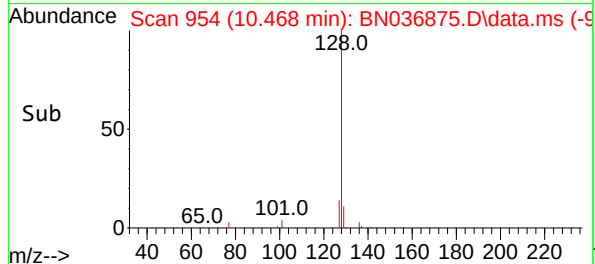
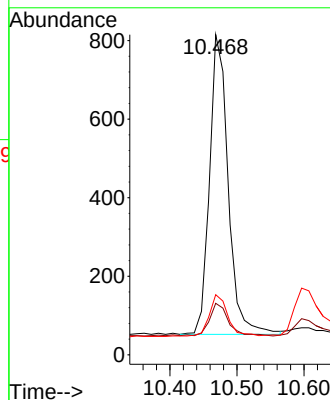
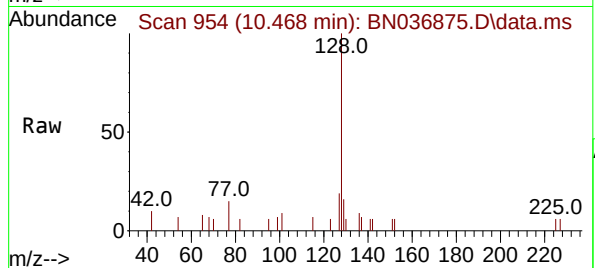




#9
Naphthalene
Concen: 0.403 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

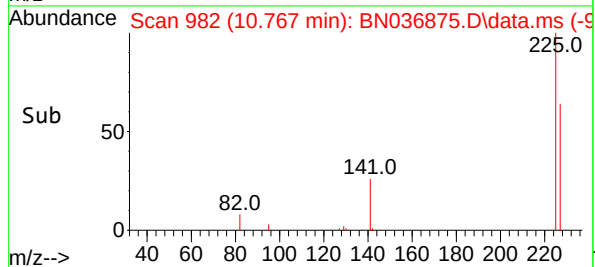
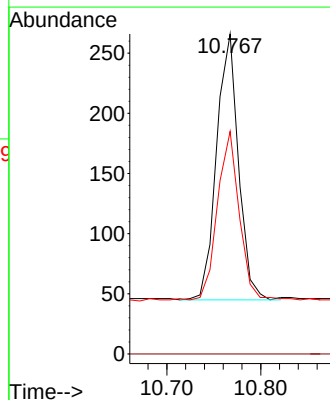
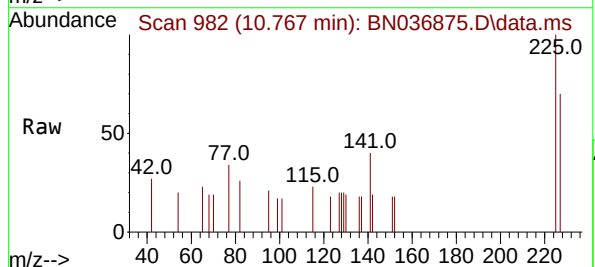
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

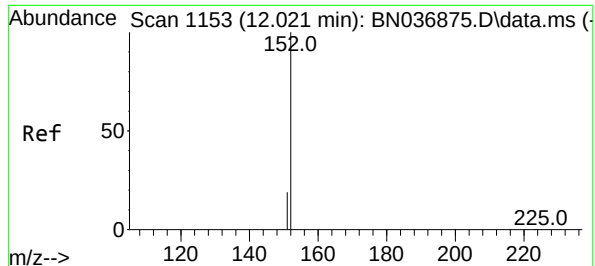
Tgt Ion	Ratio	Lower	Upper
128	100		
129	16.1	12.9	19.3
127	18.8	15.0	22.6



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	50.5	75.7

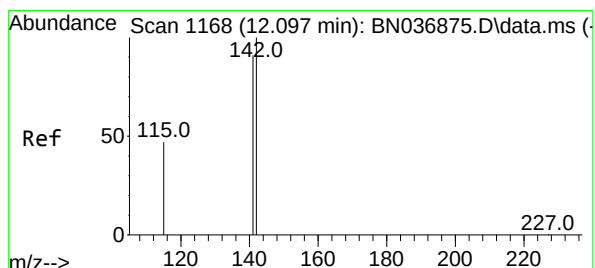
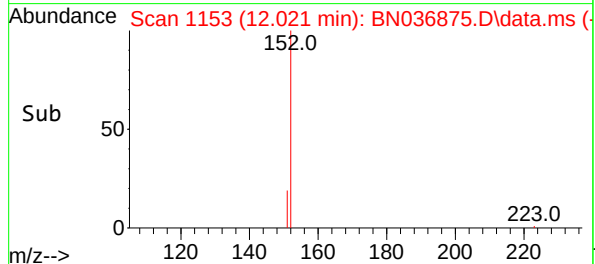
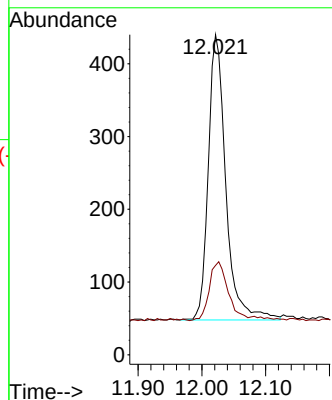
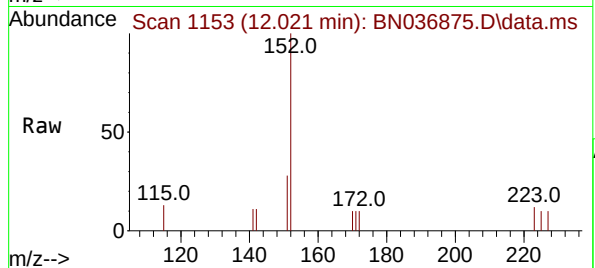




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

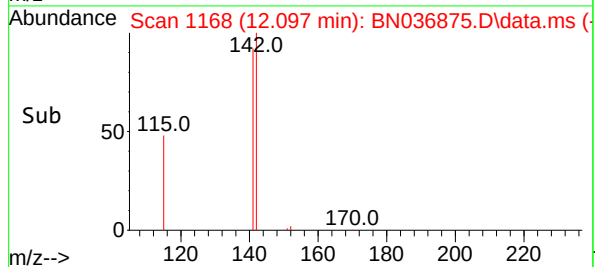
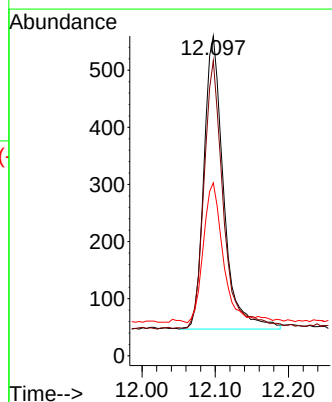
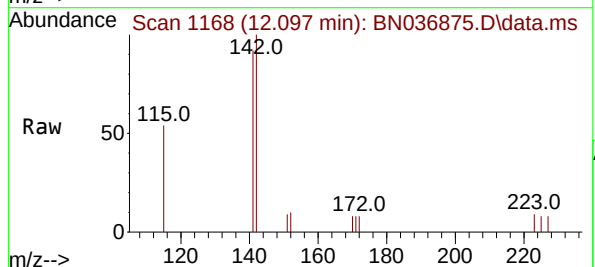
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

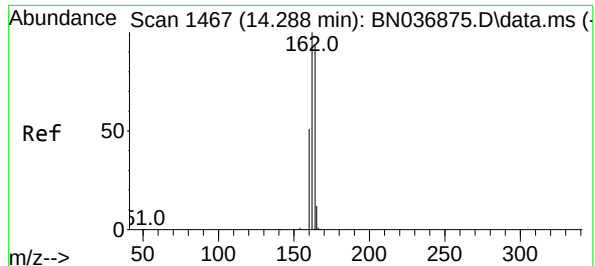
Tgt Ion:152 Resp: 748
Ion Ratio Lower Upper
152 100
151 22.3 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.408 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion:142 Resp: 956
Ion Ratio Lower Upper
142 100
141 92.3 73.8 110.8
115 54.1 43.3 64.9

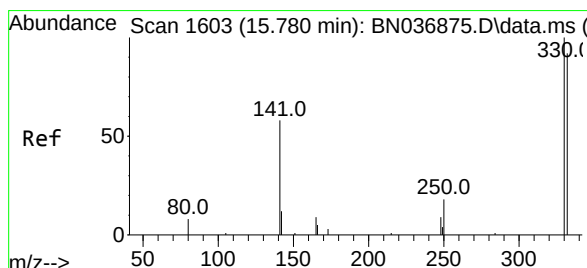
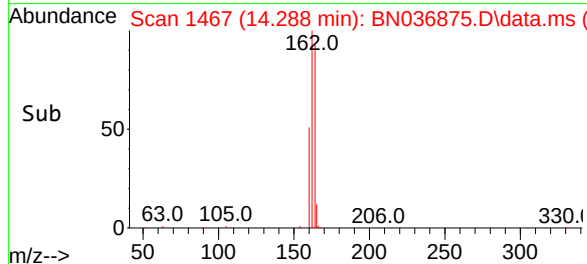
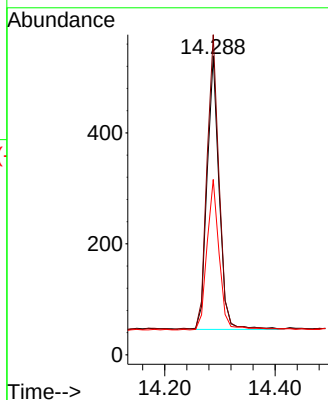
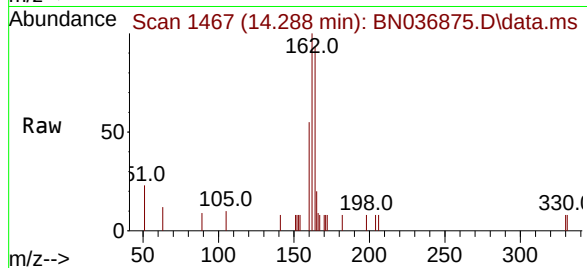




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

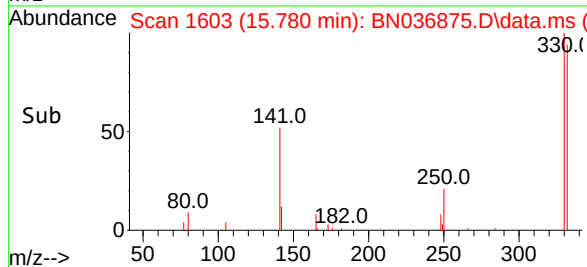
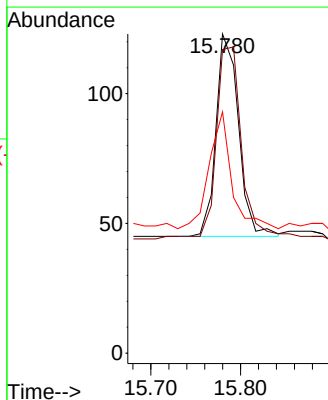
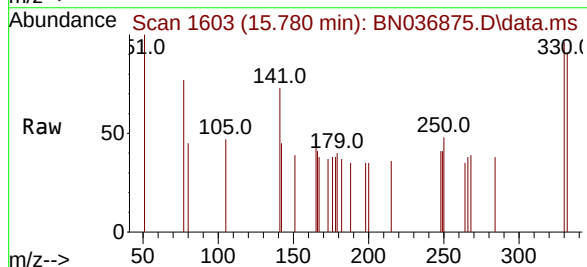
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

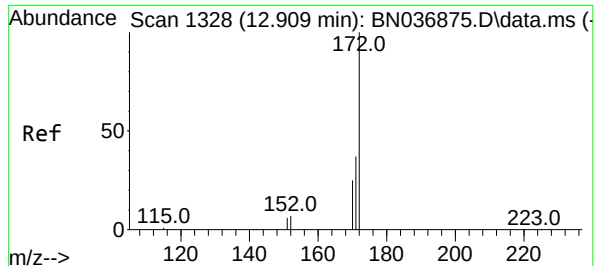
Tgt Ion	164	Resp	744
Ion Ratio	Lower	Upper	
164	100		
162	107.1	85.7	128.5
160	58.6	46.9	70.3



#14
2,4,6-Tribromophenol
Concen: 0.378 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion	330	Resp	136
Ion Ratio	Lower	Upper	
330	100		
332	108.8	87.0	130.6
141	56.6	45.3	67.9

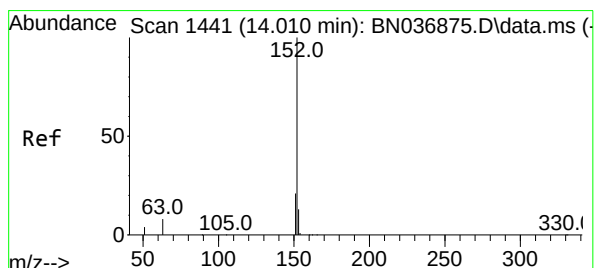
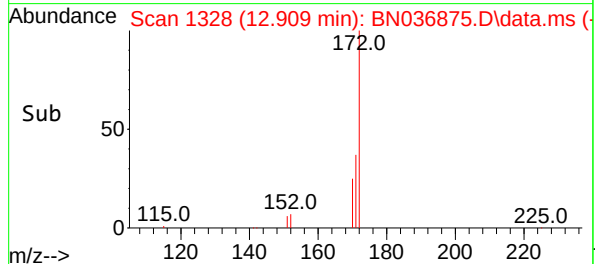
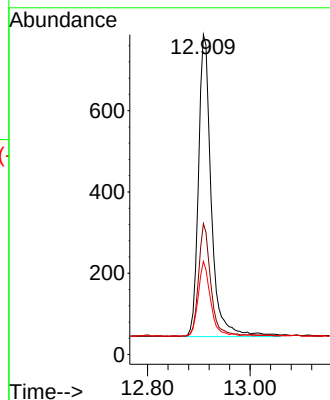
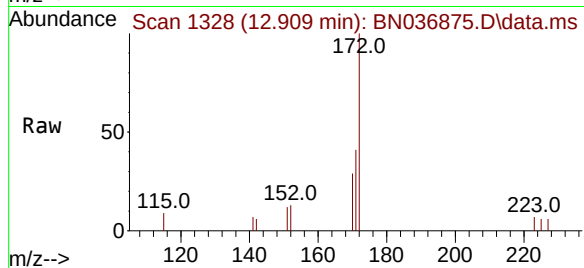




#15
2-Fluorobiphenyl
Concen: 0.416 ng
RT: 12.909 min Scan# 1328
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

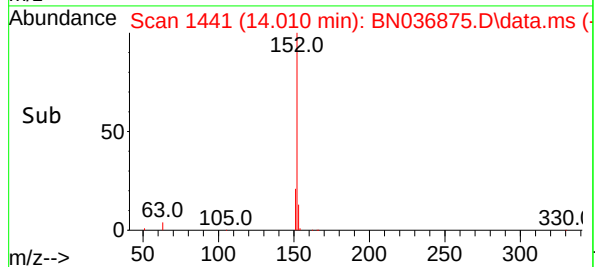
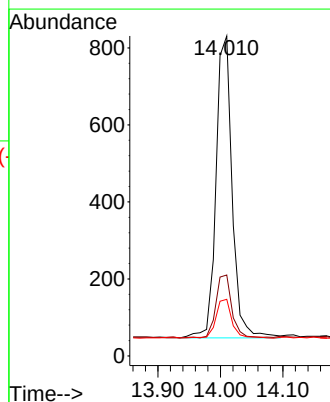
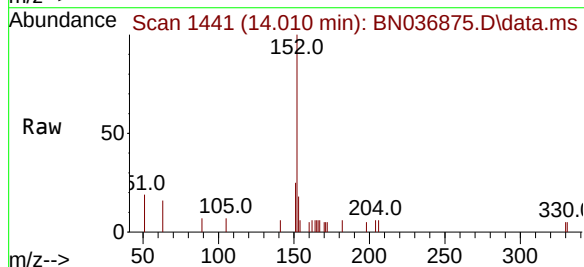
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

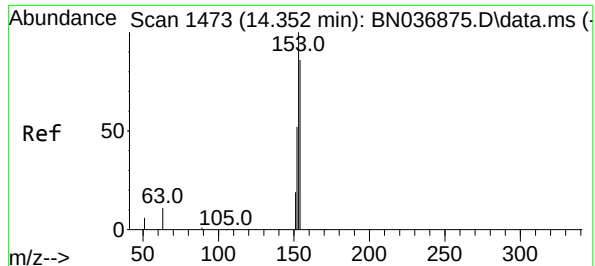
Tgt Ion:	172	Resp:	1498
Ion Ratio	Lower	Upper	
172	100		
171	40.9	32.7	49.1
170	29.1	23.3	34.9



#16
Acenaphthylene
Concen: 0.407 ng
RT: 14.010 min Scan# 1441
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion:	152	Resp:	1407
Ion Ratio	Lower	Upper	
152	100		
151	20.5	16.4	24.6
153	12.9	10.3	15.5





#17

Acenaphthene

Concen: 0.408 ng

RT: 14.352 min Scan# 1473

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

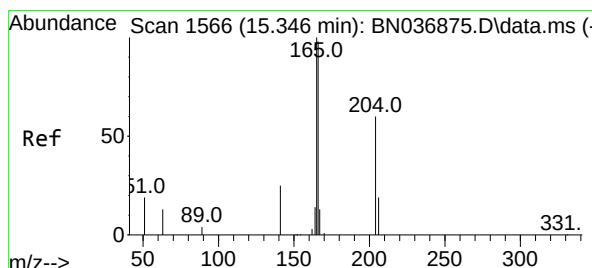
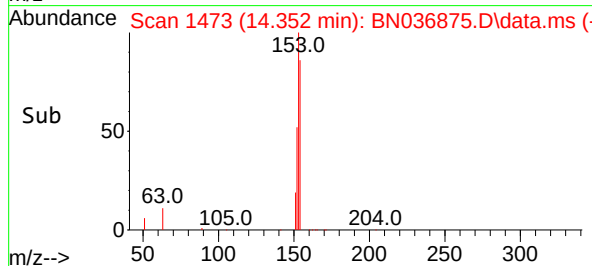
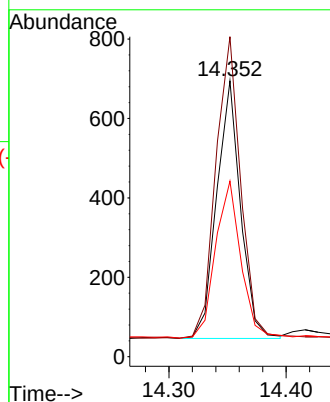
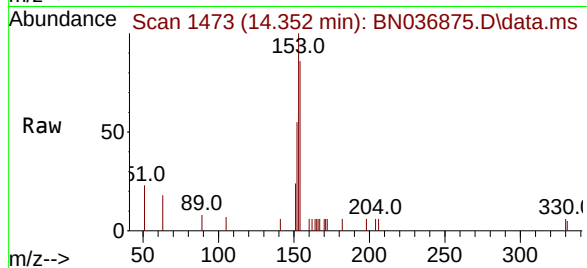
Tgt Ion:154 Resp: 918

Ion Ratio Lower Upper

154 100

153 122.2 97.8 146.6

152 65.9 52.7 79.1



#18

Fluorene

Concen: 0.405 ng

RT: 15.346 min Scan# 1566

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

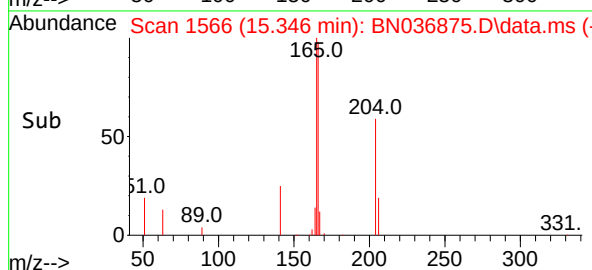
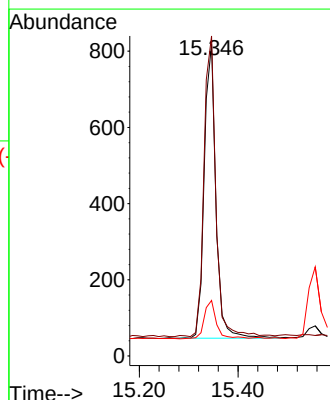
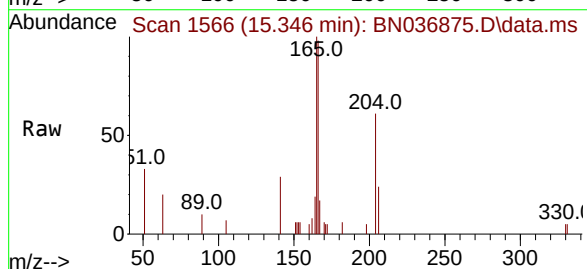
Tgt Ion:166 Resp: 1260

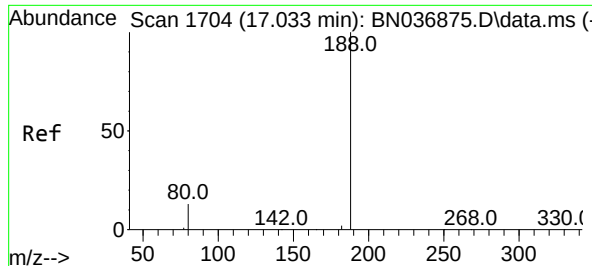
Ion Ratio Lower Upper

166 100

165 104.0 83.2 124.8

167 13.9 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.033 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

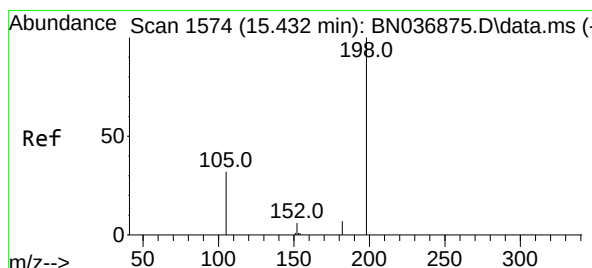
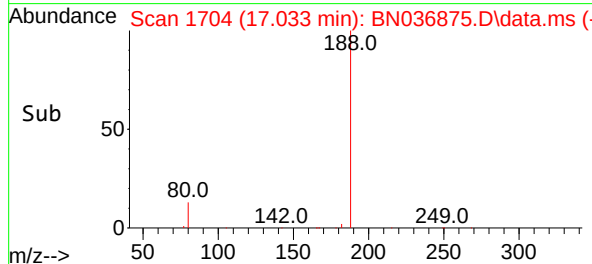
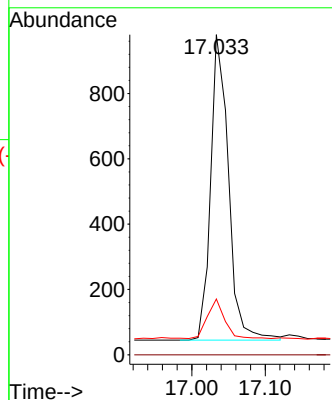
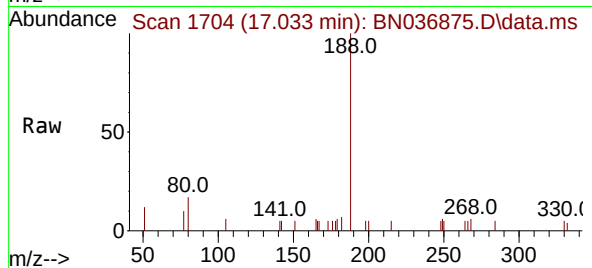
Tgt Ion:188 Resp: 1575

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 17.4 13.9 20.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.407 ng

RT: 15.432 min Scan# 1574

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

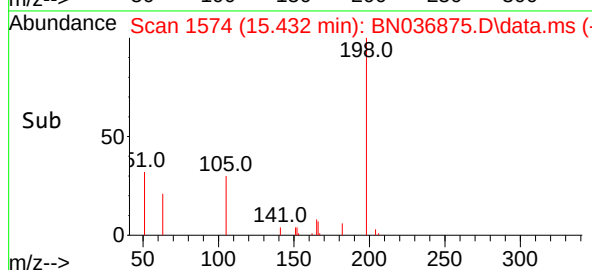
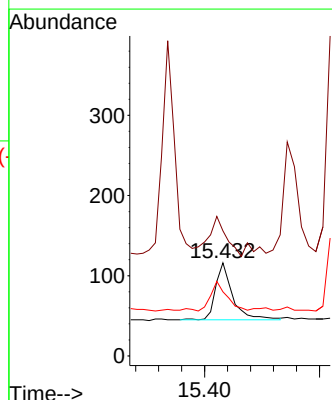
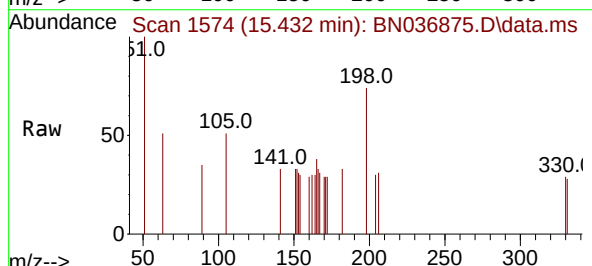
Tgt Ion:198 Resp: 150

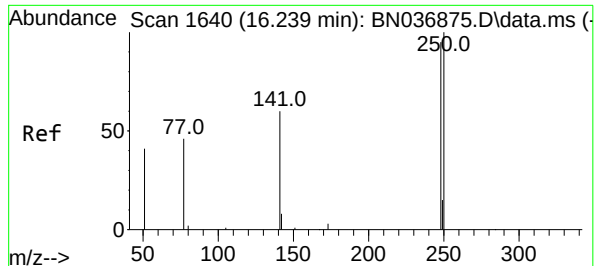
Ion Ratio Lower Upper

198 100

51 134.5 107.6 161.4

105 69.0 55.2 82.8

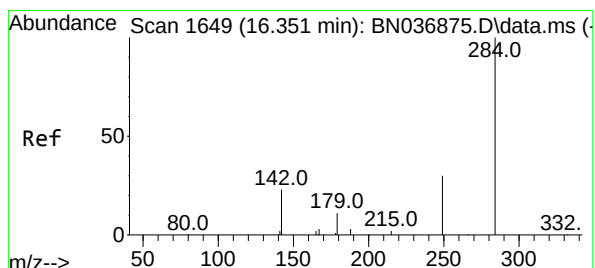
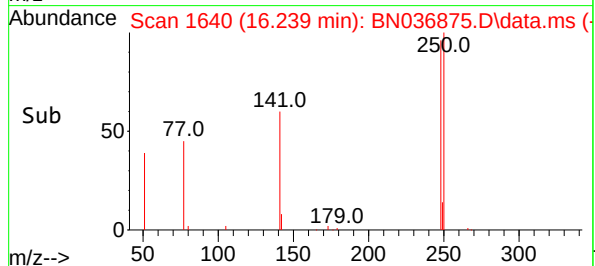
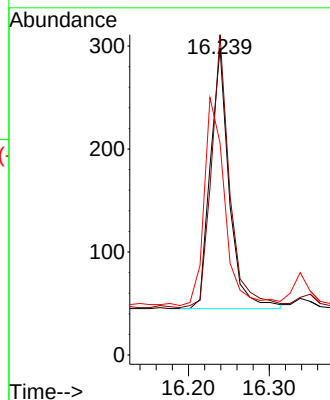
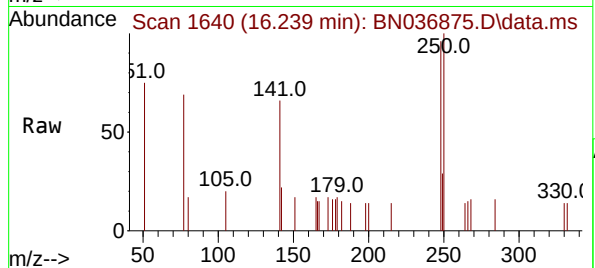




#21
4-Bromophenyl-phenylether
Concen: 0.432 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

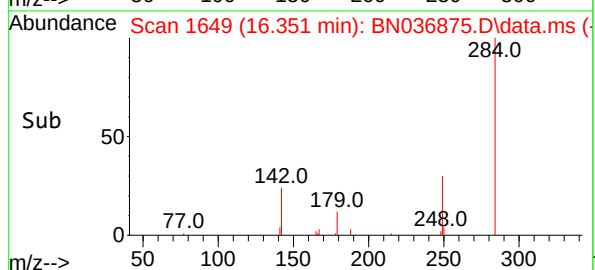
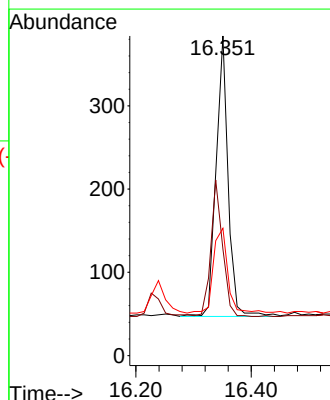
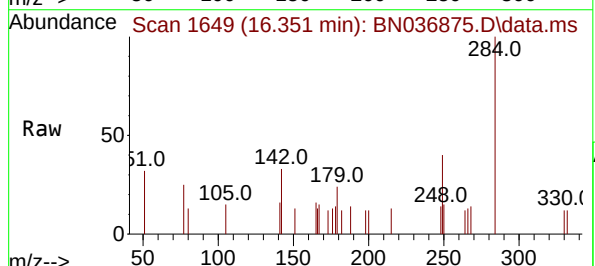
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

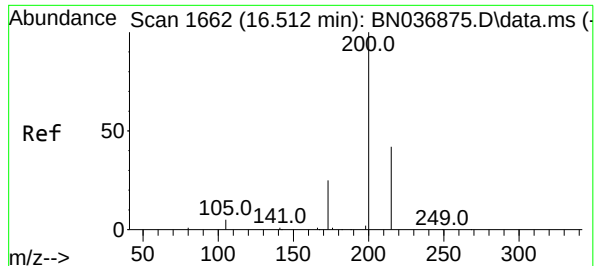
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.4	83.5	125.3
141	69.1	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.432 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.1	37.7	56.5
249	36.3	29.0	43.6





#23

Atrazine

Concen: 0.444 ng

RT: 16.512 min Scan# 1662

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

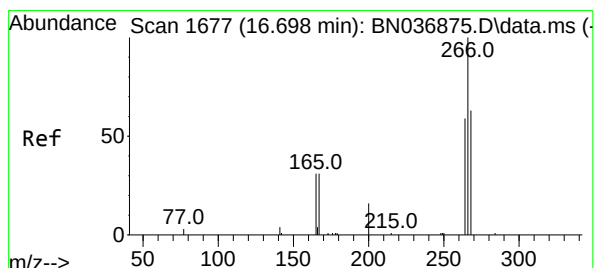
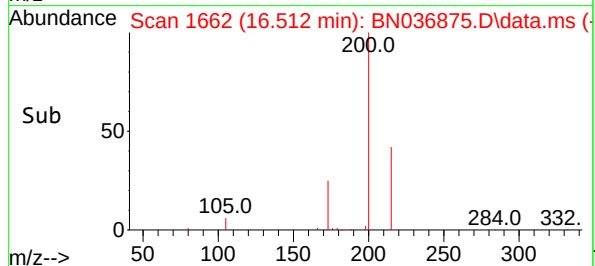
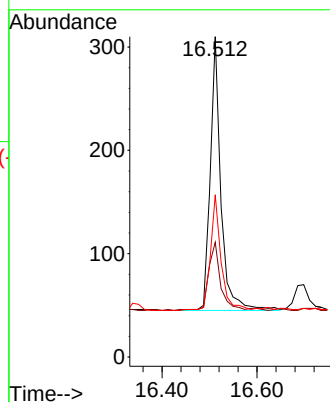
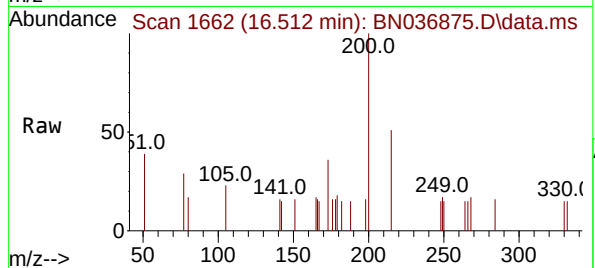
Tgt Ion:200 Resp: 414

Ion Ratio Lower Upper

200 100

173 35.8 28.6 43.0

215 50.6 40.5 60.7



#24

Pentachlorophenol

Concen: 0.436 ng

RT: 16.698 min Scan# 1677

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

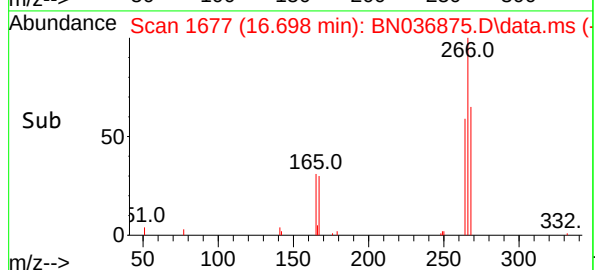
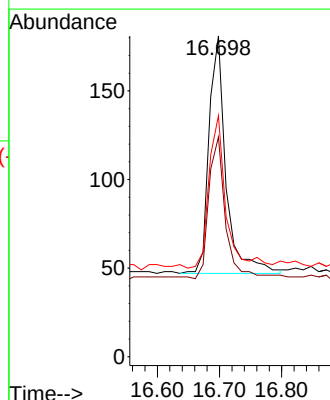
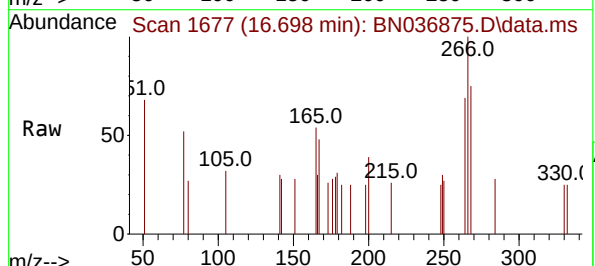
Tgt Ion:266 Resp: 255

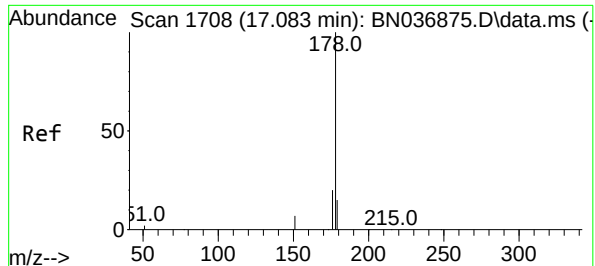
Ion Ratio Lower Upper

266 100

264 55.7 44.6 66.8

268 64.7 51.8 77.6

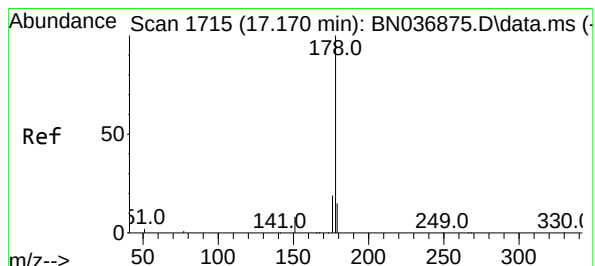
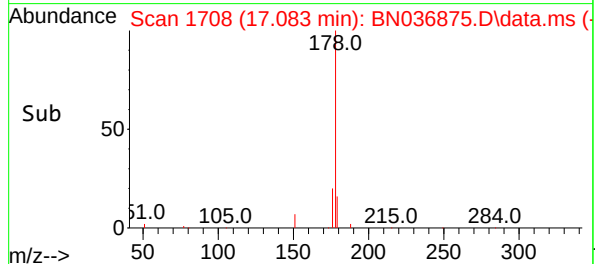
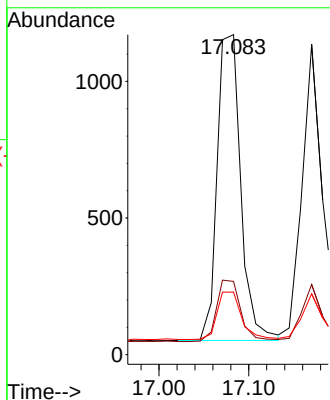
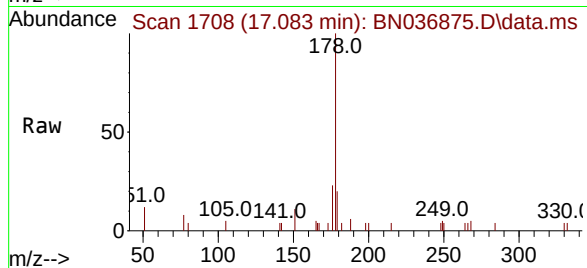




#25
Phenanthrene
Concen: 0.432 ng
RT: 17.083 min Scan# 1708
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

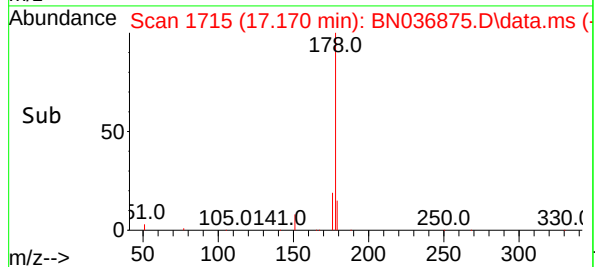
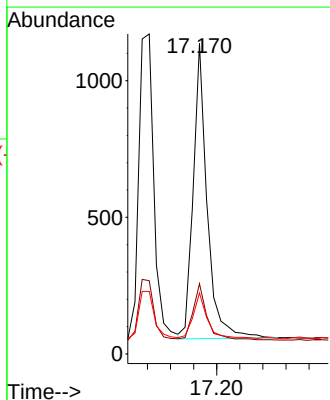
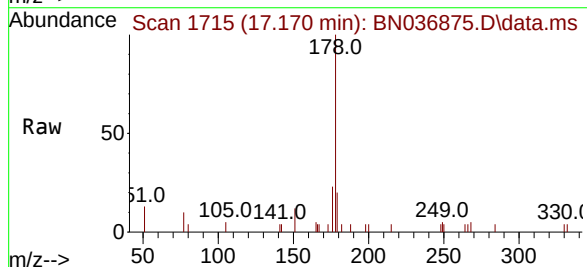
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

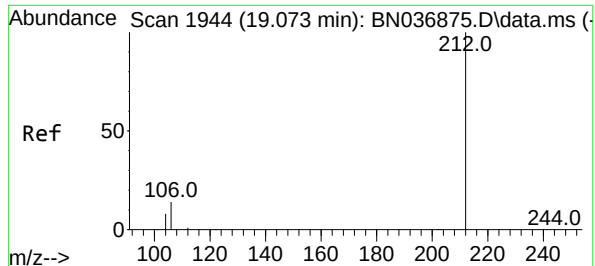
Tgt Ion:178 Resp: 2044
Ion Ratio Lower Upper
178 100
176 20.8 16.6 25.0
179 16.0 12.8 19.2



#26
Anthracene
Concen: 0.432 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion:178 Resp: 1811
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.6
179 15.7 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.435 ng

RT: 19.073 min Scan# 1944

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

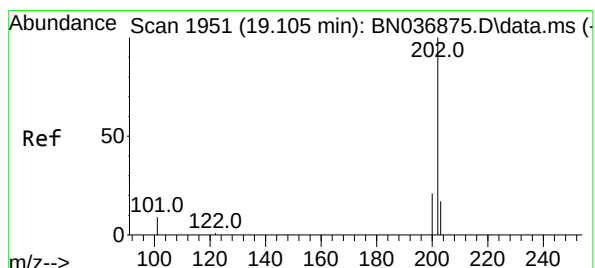
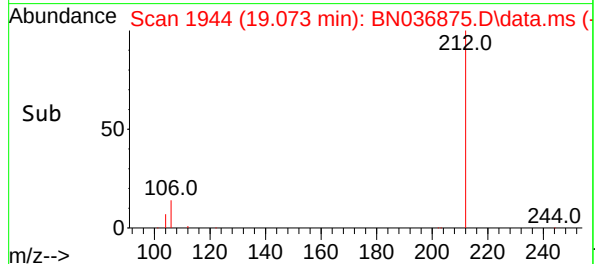
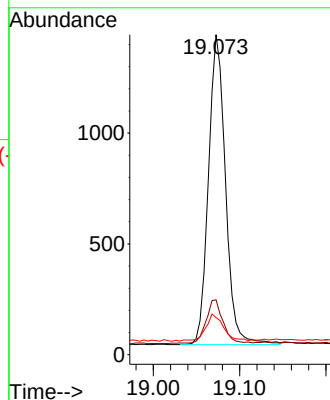
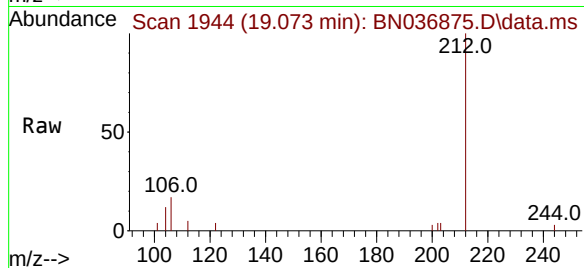
Tgt Ion:212 Resp: 1923

Ion Ratio Lower Upper

212 100

106 14.0 11.2 16.8

104 9.4 7.5 11.3



#28

Fluoranthene

Concen: 0.428 ng

RT: 19.105 min Scan# 1951

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

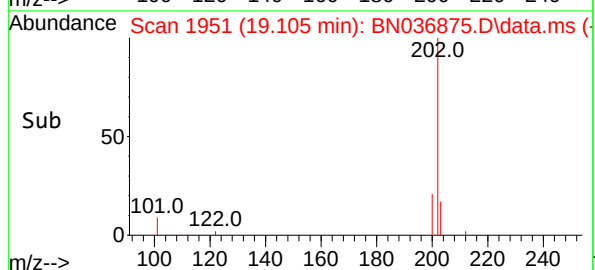
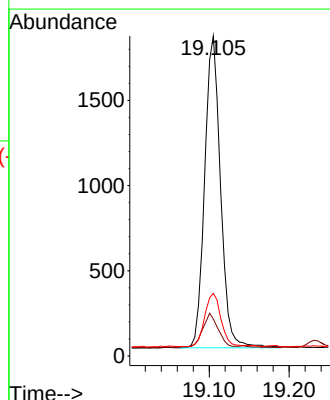
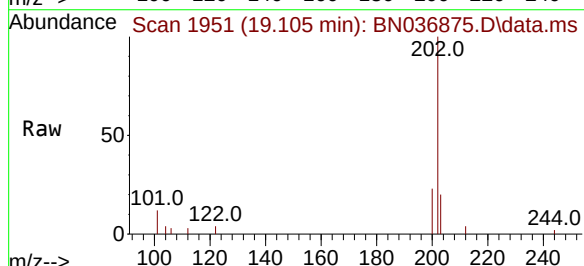
Tgt Ion:202 Resp: 2529

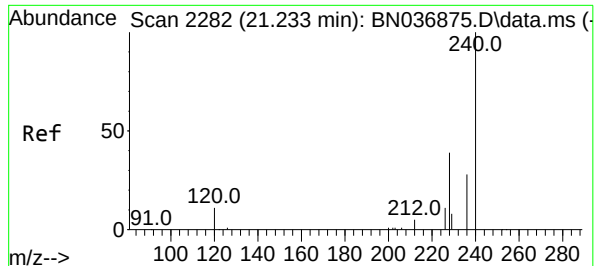
Ion Ratio Lower Upper

202 100

101 10.6 8.5 12.7

203 17.2 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

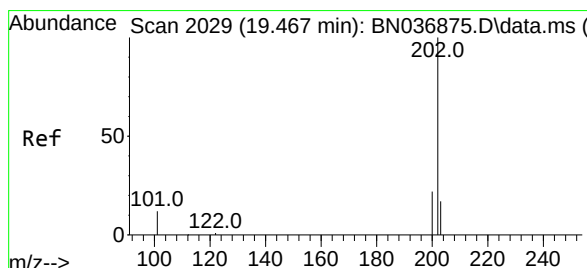
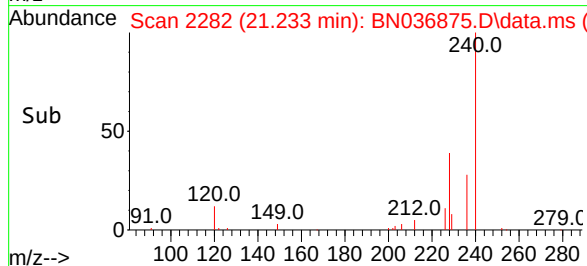
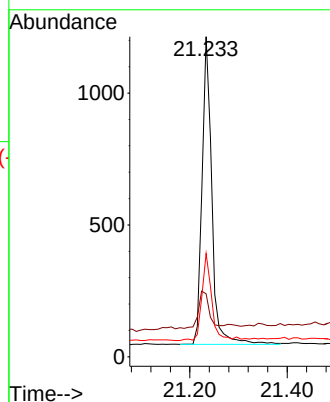
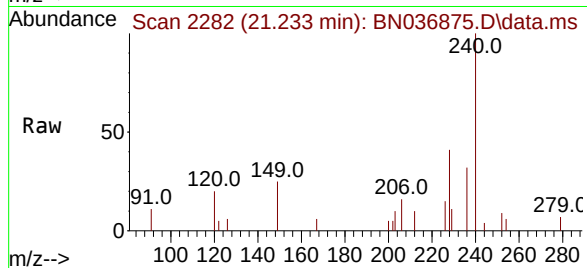
Tgt Ion:240 Resp: 1627

Ion Ratio Lower Upper

240 100

120 19.7 15.8 23.6

236 32.3 25.8 38.8



#30

Pyrene

Concen: 0.421 ng

RT: 19.467 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

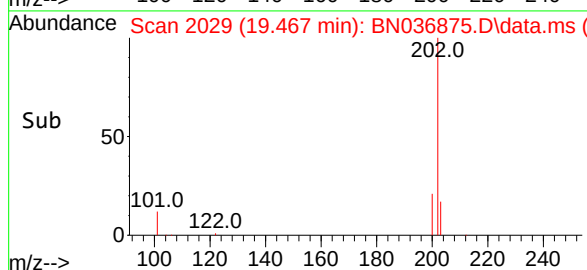
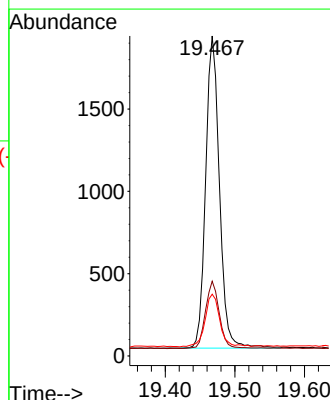
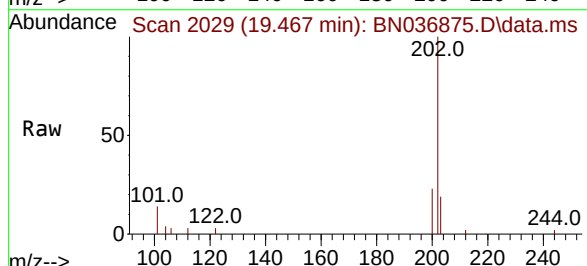
Tgt Ion:202 Resp: 2609

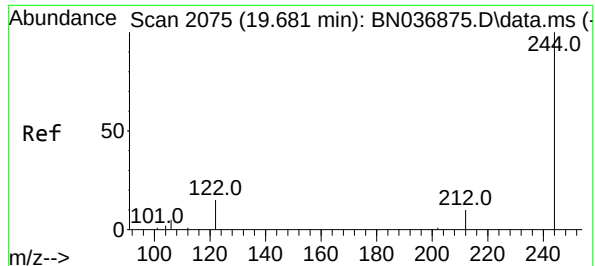
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 18.1 14.5 21.7

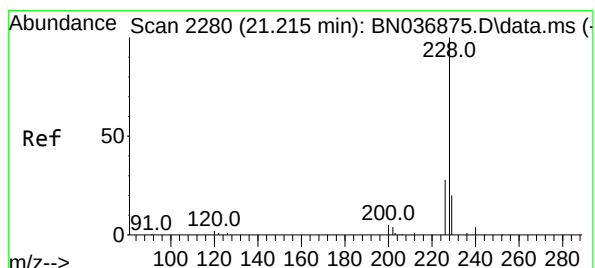
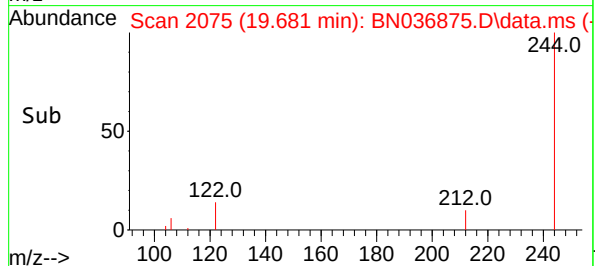
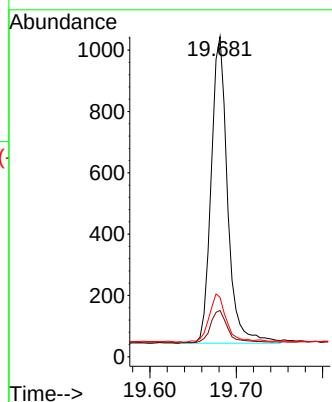
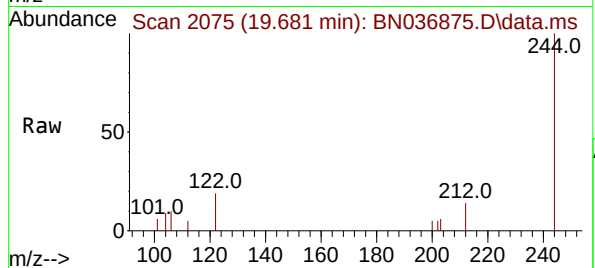




#31
Terphenyl-d14
Concen: 0.426 ng
RT: 19.681 min Scan# 2075
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

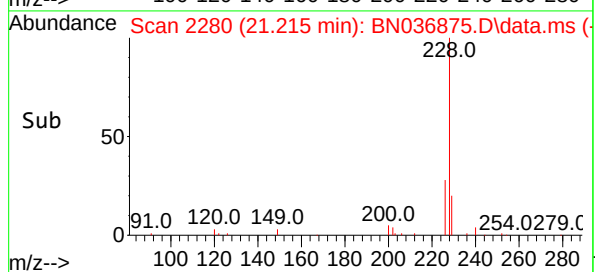
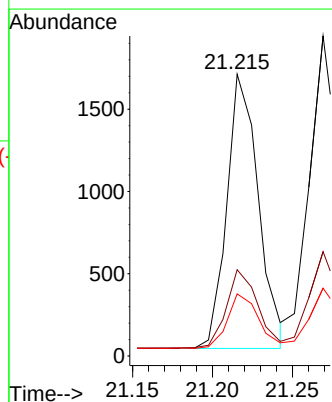
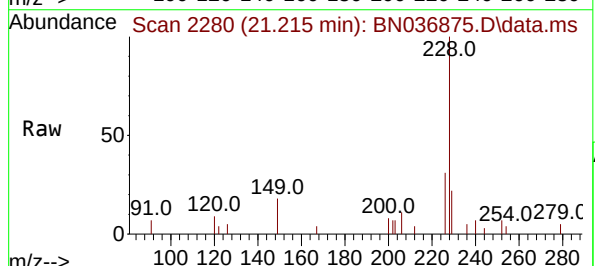
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

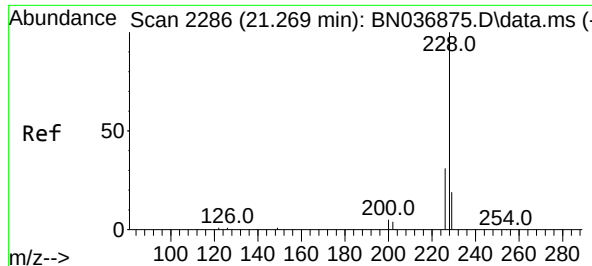
Tgt Ion	Ratio	Lower	Upper
244	100		
212	14.5	11.6	17.4
122	18.6	14.9	22.3



#32
Benzo(a)anthracene
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036875.D
Acq: 11 Apr 2025 13:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	22.1	17.7	26.5





#33

Chrysene

Concen: 0.427 ng

RT: 21.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

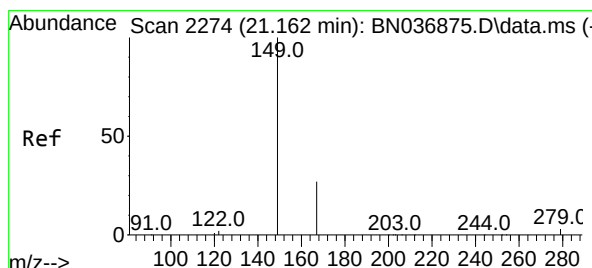
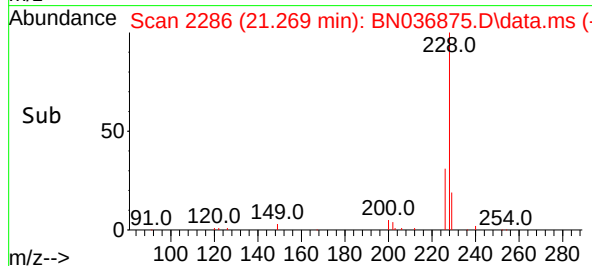
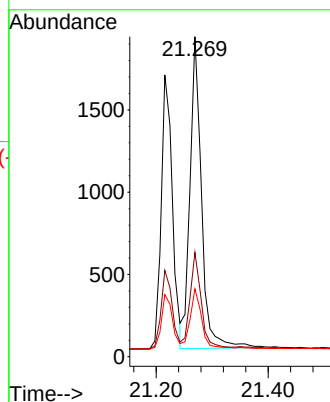
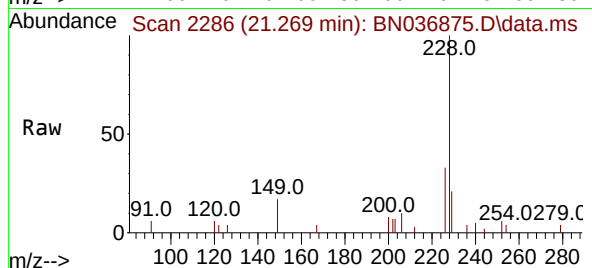
Tgt Ion:228 Resp: 2715

Ion Ratio Lower Upper

228 100

226 32.6 26.1 39.1

229 21.2 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

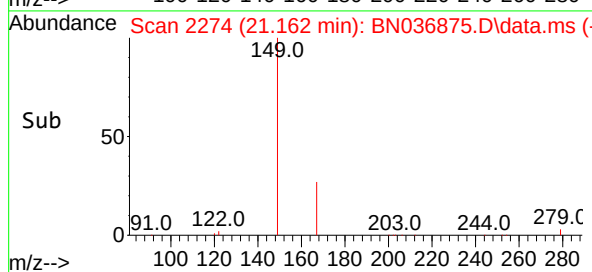
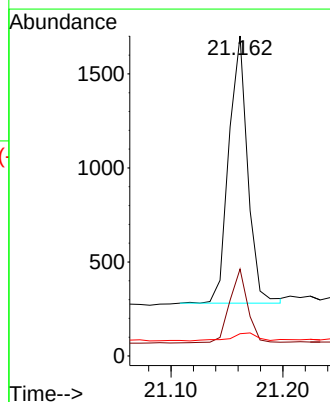
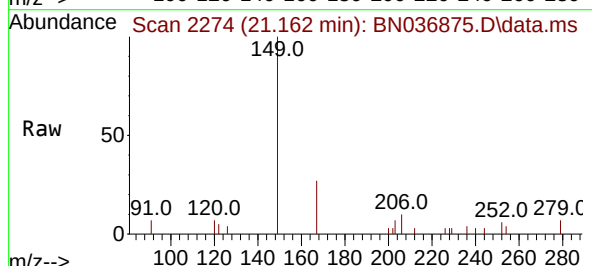
Tgt Ion:149 Resp: 1665

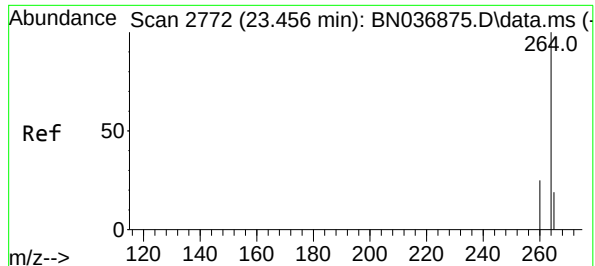
Ion Ratio Lower Upper

149 100

167 26.4 21.0 31.4

279 4.6 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.456 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

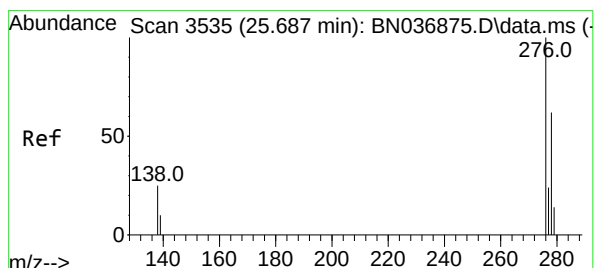
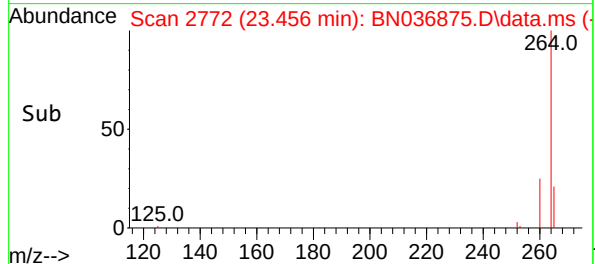
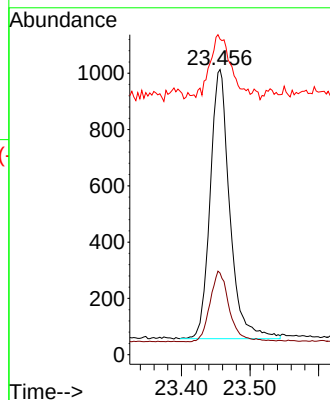
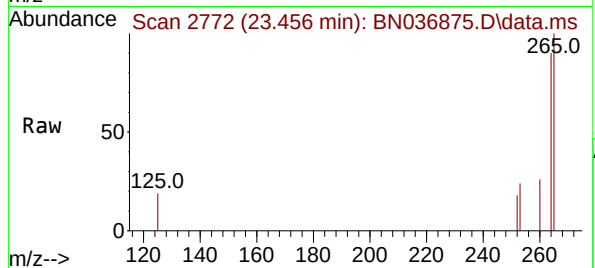
Tgt Ion:264 Resp: 1897

Ion Ratio Lower Upper

264 100

260 28.6 22.9 34.3

265 110.7 88.6 132.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.424 ng

RT: 25.687 min Scan# 3535

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

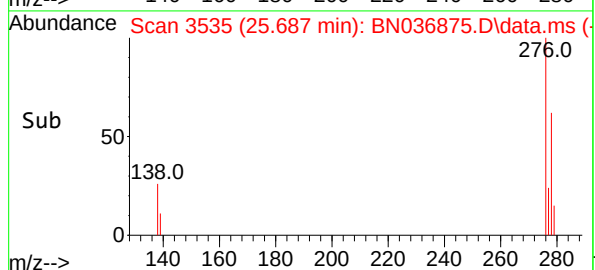
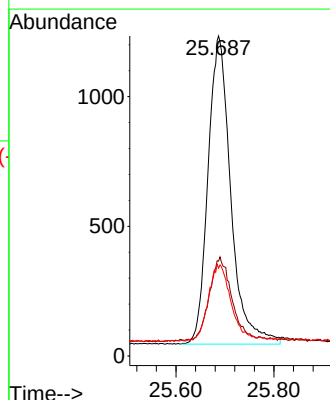
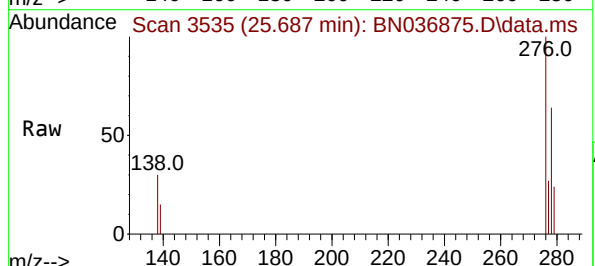
Tgt Ion:276 Resp: 3833

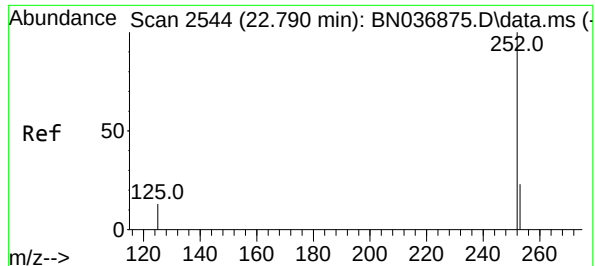
Ion Ratio Lower Upper

276 100

138 26.3 21.0 31.6

277 24.1 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 0.431 ng

RT: 22.790 min Scan# 2544

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

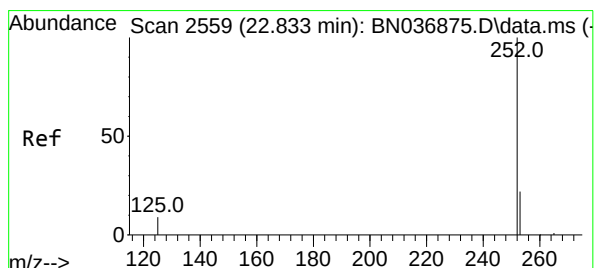
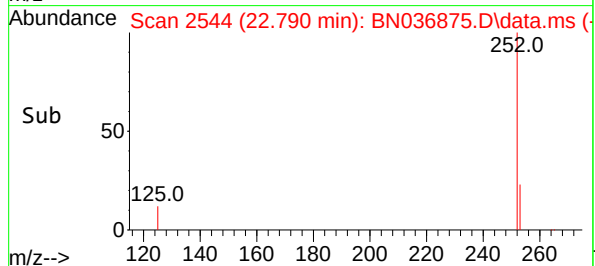
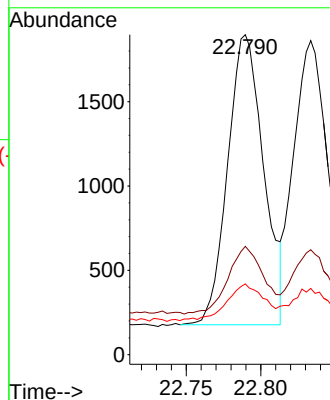
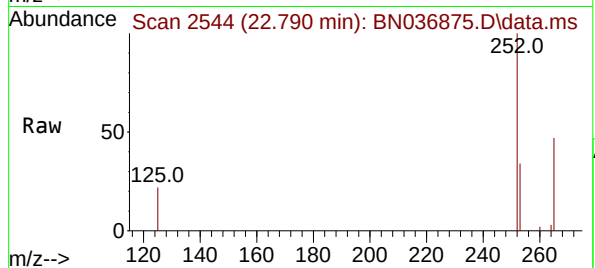
Tgt Ion:252 Resp: 2890

Ion Ratio Lower Upper

252 100

253 33.8 27.0 40.6

125 22.1 17.7 26.5



#38

Benzo(k)fluoranthene

Concen: 0.417 ng

RT: 22.833 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

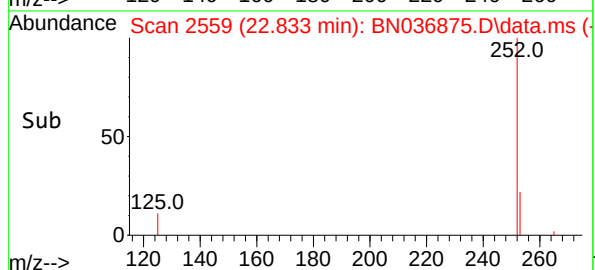
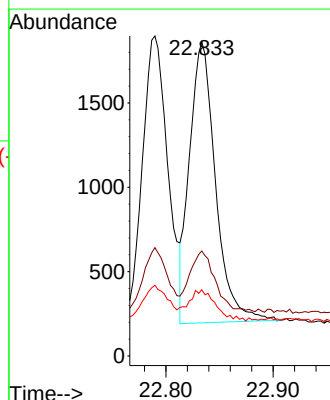
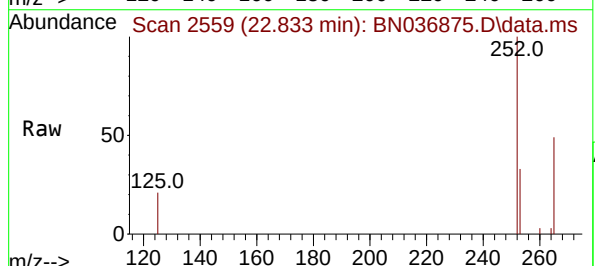
Tgt Ion:252 Resp: 2812

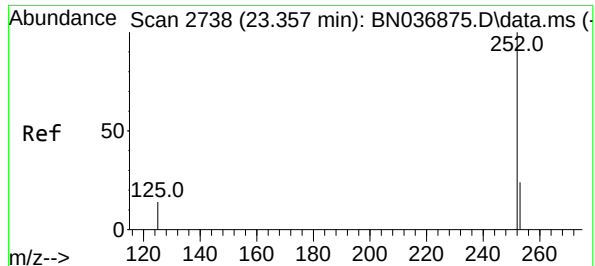
Ion Ratio Lower Upper

252 100

253 33.4 26.7 40.1

125 21.1 16.9 25.3





#39

Benzo(a)pyrene

Concen: 0.435 ng

RT: 23.357 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

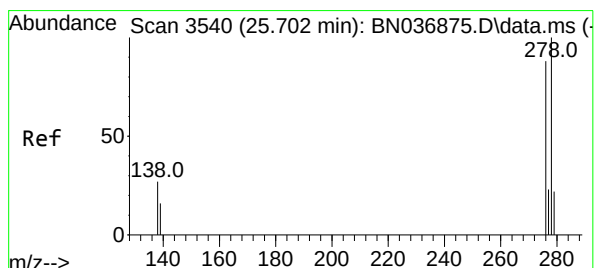
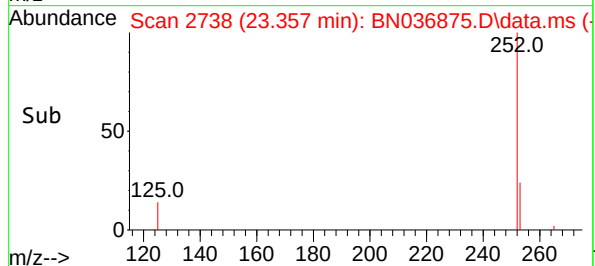
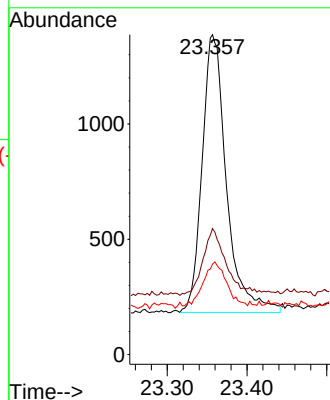
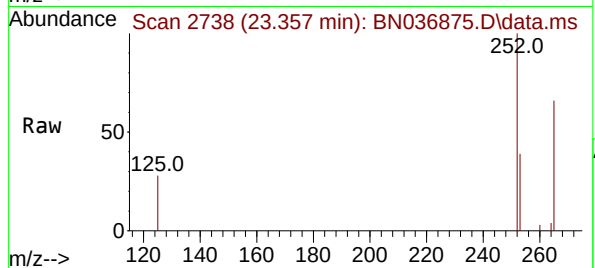
Tgt Ion:252 Resp: 2551

Ion Ratio Lower Upper

252 100

253 39.4 31.5 47.3

125 28.3 22.6 34.0



#40

Dibenzo(a,h)anthracene

Concen: 0.420 ng

RT: 25.702 min Scan# 3540

Delta R.T. 0.000 min

Lab File: BN036875.D

Acq: 11 Apr 2025 13:17

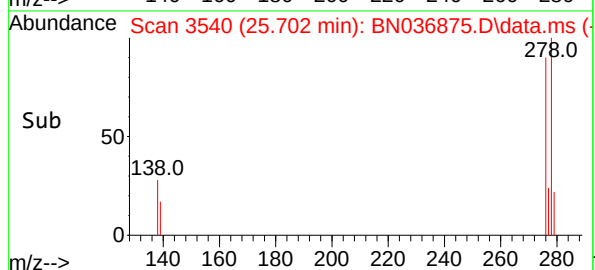
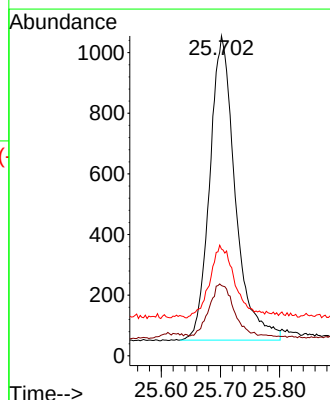
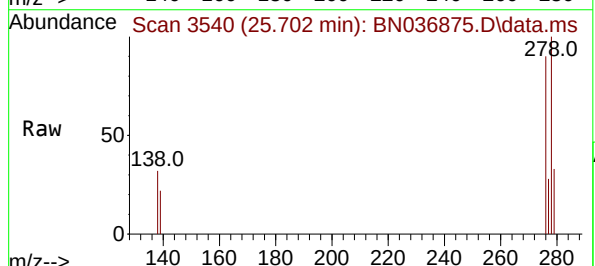
Tgt Ion:278 Resp: 3007

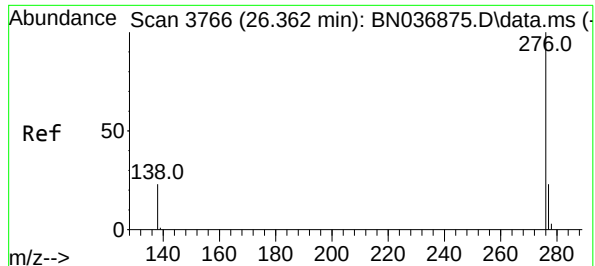
Ion Ratio Lower Upper

278 100

139 22.0 17.6 26.4

279 33.4 26.7 40.1





#41

Benzo(g,h,i)perylene

Concen: 0.420 ng

RT: 26.362 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036875.D

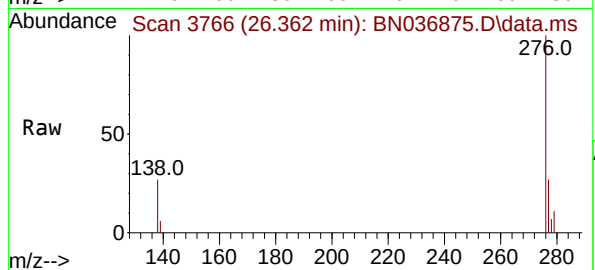
Acq: 11 Apr 2025 13:17

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



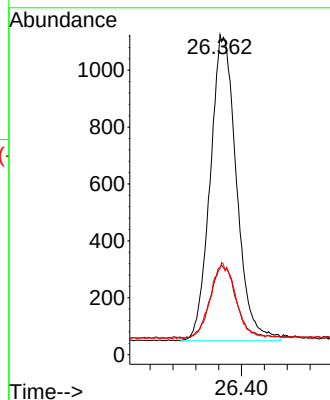
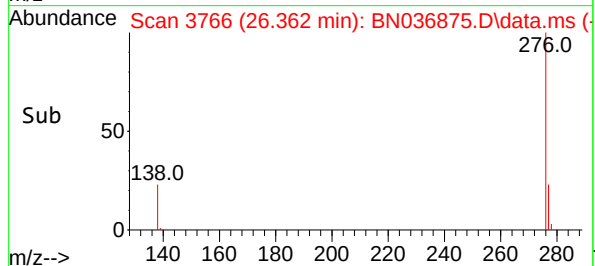
Tgt Ion:276 Resp: 3425

Ion Ratio Lower Upper

276 100

277 27.3 21.8 32.8

138 27.0 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036876.D
 Acq On : 11 Apr 2025 13:53
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Apr 11 15:36:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:32:59 2025
 Response via : Initial Calibration

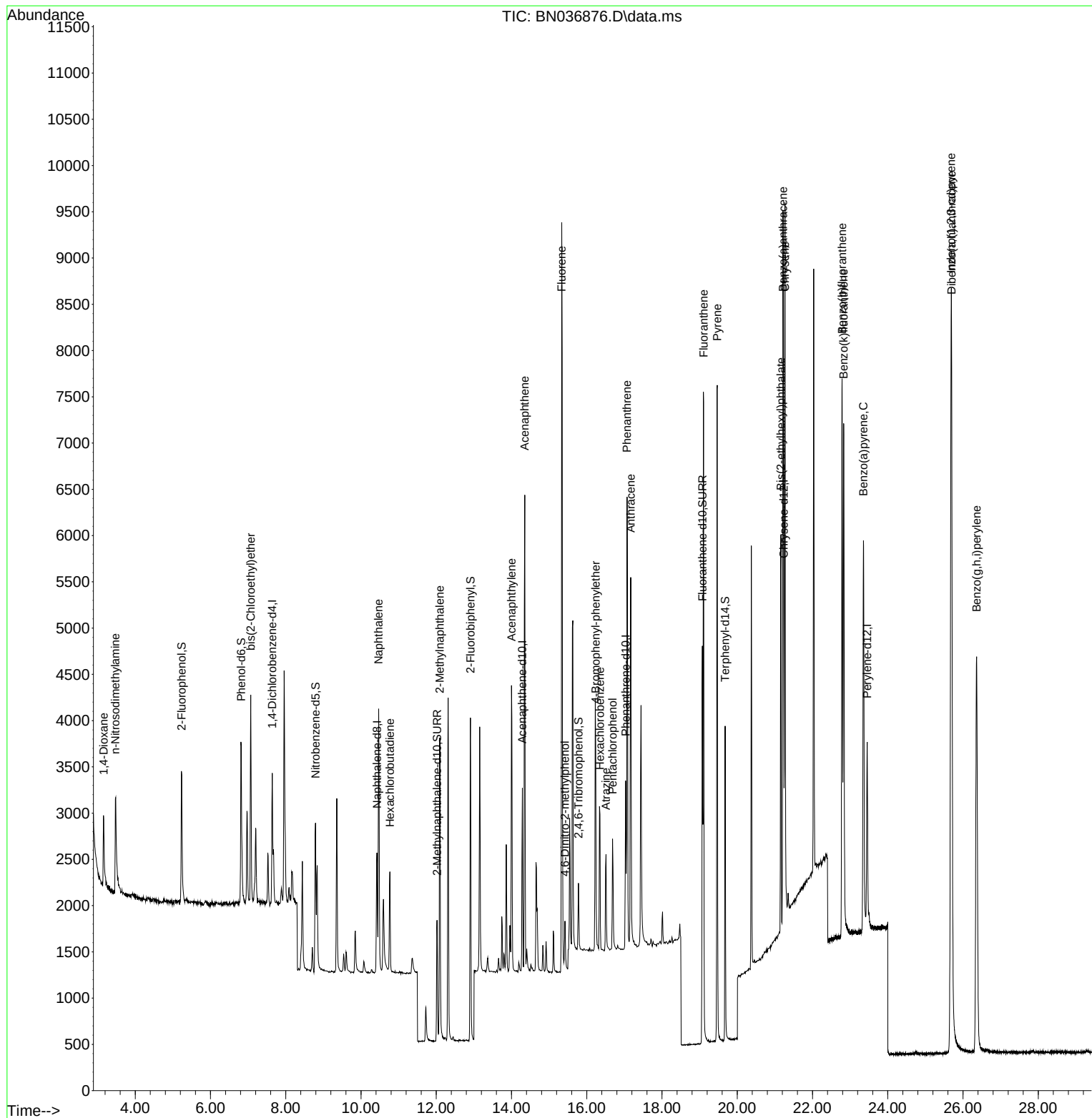
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	666	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	1743	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	1033	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	2266	0.400	ng	# 0.00
29) Chrysene-d12	21.233	240	2195	0.400	ng	# 0.00
35) Perylene-d12	23.450	264	2663	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	1226	0.775	ng	0.00
5) Phenol-d6	6.817	99	1511	0.750	ng	0.00
8) Nitrobenzene-d5	8.792	82	1392	0.711	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	1932	0.760	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	386	0.774	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	3506	0.701	ng	0.00
27) Fluoranthene-d10	19.073	212	4730	0.743	ng	0.00
31) Terphenyl-d14	19.677	244	3251	0.774	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.162	88	548	0.696	ng	89
3) n-Nitrosodimethylamine	3.473	42	1294	0.746	ng	# 98
6) bis(2-Chloroethyl)ether	7.069	93	1549	0.778	ng	93
9) Naphthalene	10.468	128	3762	0.743	ng	# 91
10) Hexachlorobutadiene	10.767	225	860	0.744	ng	# 99
12) 2-Methylnaphthalene	12.092	142	2453	0.757	ng	97
16) Acenaphthylene	13.999	152	3604	0.751	ng	99
17) Acenaphthene	14.352	154	2400	0.768	ng	95
18) Fluorene	15.336	166	3235	0.750	ng	98
20) 4,6-Dinitro-2-methylph...	15.421	198	418	0.789	ng	85
21) 4-Bromophenyl-phenylether	16.239	248	1037	0.759	ng	# 90
22) Hexachlorobenzene	16.351	284	1187	0.730	ng	97
23) Atrazine	16.512	200	1001	0.746	ng	# 93
24) Pentachlorophenol	16.686	266	588	0.699	ng	94
25) Phenanthrene	17.071	178	5162	0.758	ng	98
26) Anthracene	17.170	178	4492	0.744	ng	99
28) Fluoranthene	19.105	202	6324	0.745	ng	99
30) Pyrene	19.468	202	6482	0.776	ng	99
32) Benzo(a)anthracene	21.215	228	5944	0.769	ng	96
33) Chrysene	21.269	228	6669	0.777	ng	98
34) Bis(2-ethylhexyl)phtha...	21.162	149	4201	0.718	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.684	276	9671	0.762	ng	98
37) Benzo(b)fluoranthene	22.787	252	7215	0.767	ng	# 86
38) Benzo(k)fluoranthene	22.828	252	7294	0.771	ng	# 87
39) Benzo(a)pyrene	23.354	252	6413	0.778	ng	# 81
40) Dibenzo(a,h)anthracene	25.696	278	7922	0.788	ng	93
41) Benzo(g,h,i)perylene	26.362	276	8703	0.760	ng	97

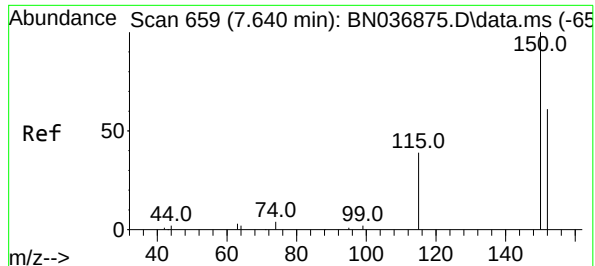
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036876.D
Acq On : 11 Apr 2025 13:53
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Apr 11 15:36:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

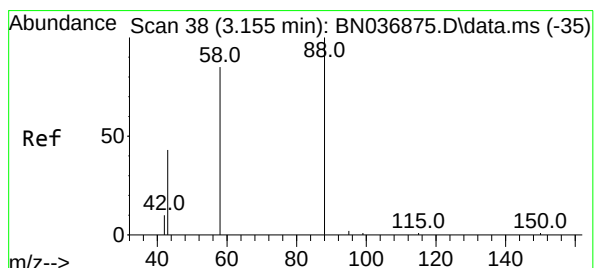
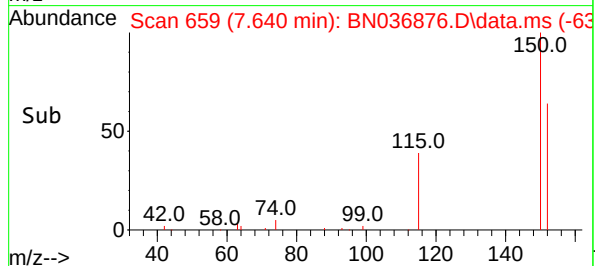
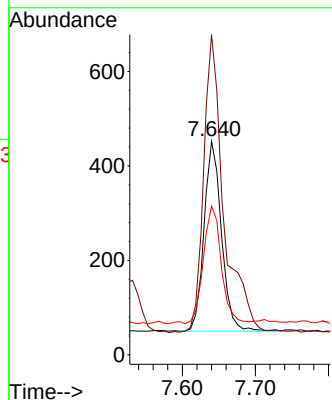
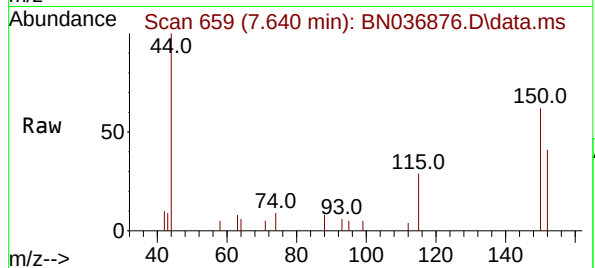




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

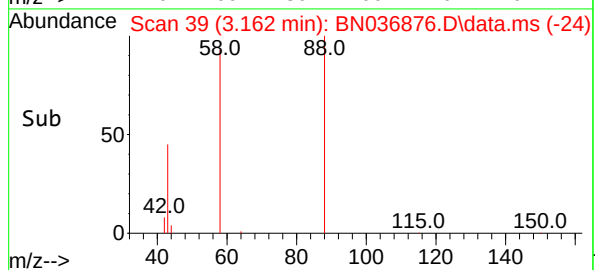
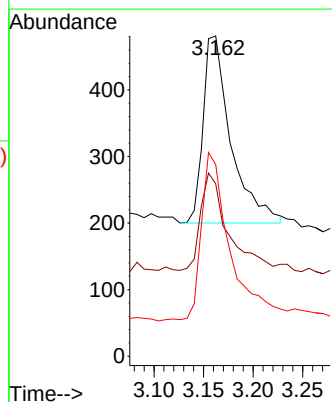
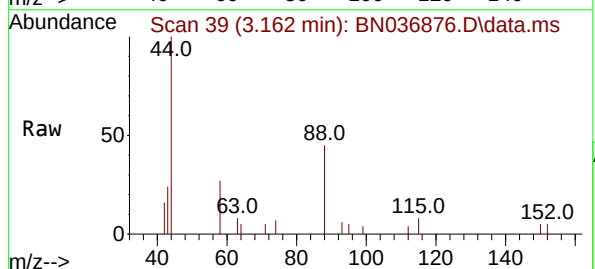
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

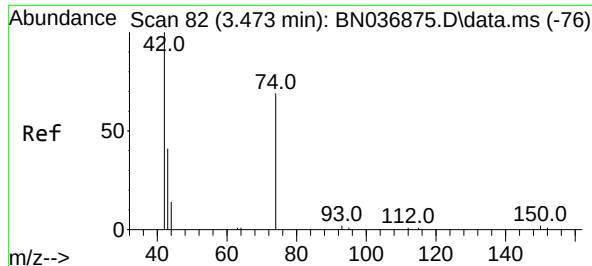
Tgt Ion:152 Resp: 666
Ion Ratio Lower Upper
152 100
150 150.0 123.0 184.6
115 69.7 60.1 90.1



#2
1,4-Dioxane
Concen: 0.696 ng
RT: 3.162 min Scan# 39
Delta R.T. 0.007 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion: 88 Resp: 548
Ion Ratio Lower Upper
88 100
43 50.4 39.2 58.8
58 94.0 63.5 95.3

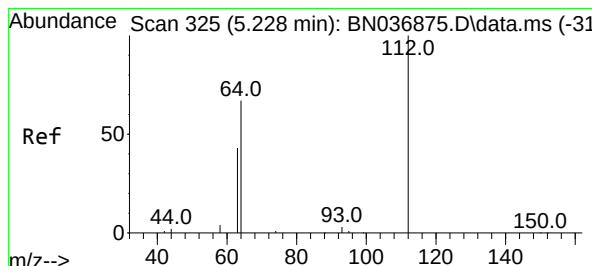
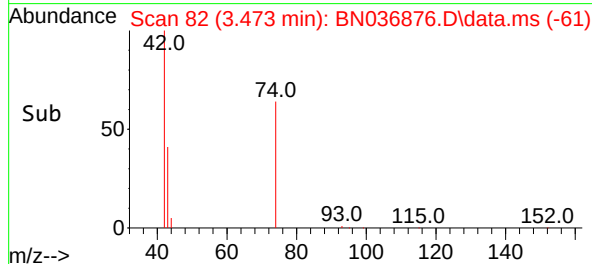
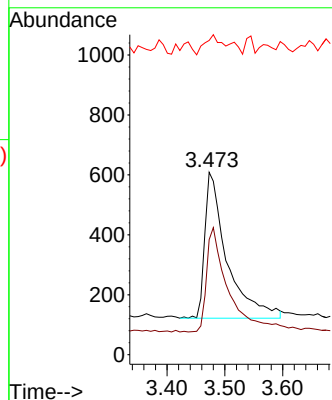
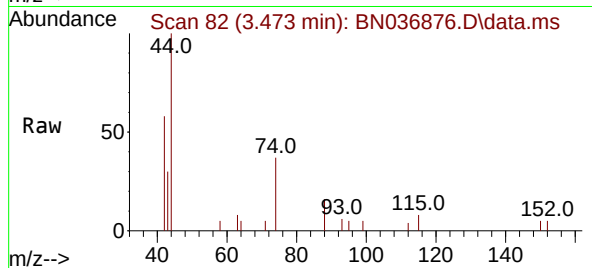




#3
n-Nitrosodimethylamine
Concen: 0.746 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

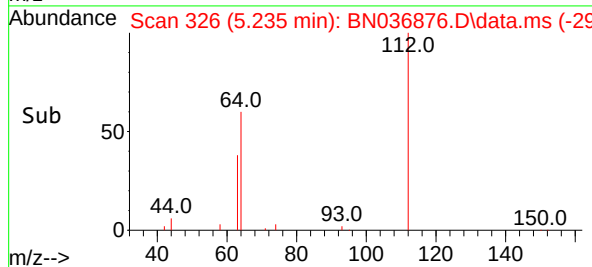
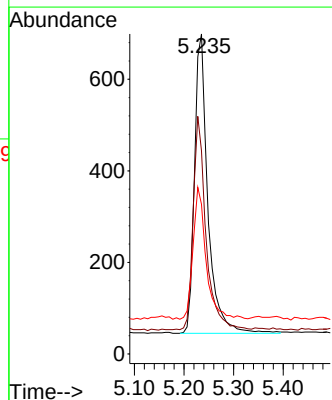
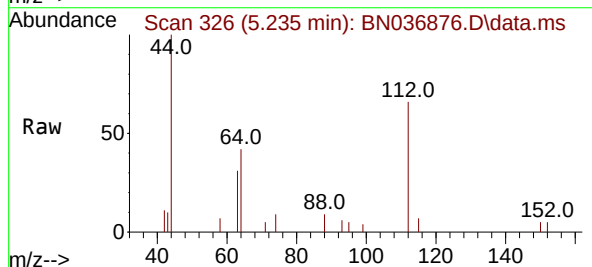
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

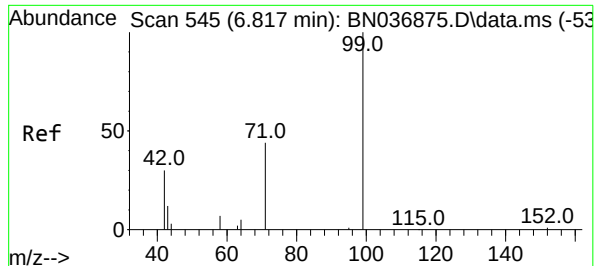
Tgt Ion: 42 Resp: 1294
Ion Ratio Lower Upper
42 100
74 69.9 54.6 81.8
44 9.9 0.0 0.0#



#4
2-Fluorophenol
Concen: 0.775 ng
RT: 5.235 min Scan# 326
Delta R.T. 0.007 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion: 112 Resp: 1226
Ion Ratio Lower Upper
112 100
64 67.9 54.0 81.0
63 42.8 35.1 52.7

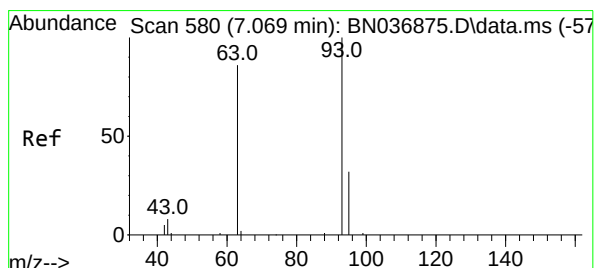
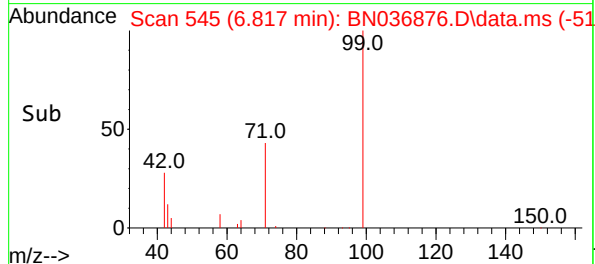
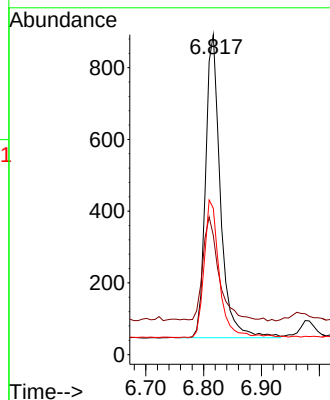
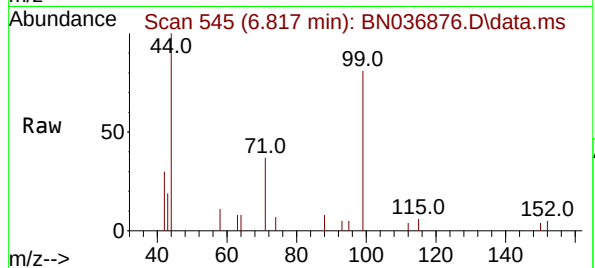




#5
Phenol-d6
Concen: 0.750 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

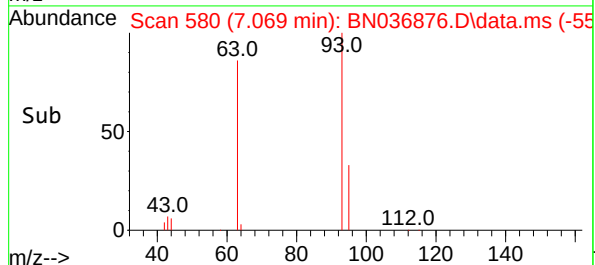
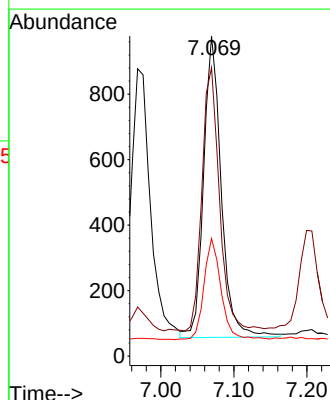
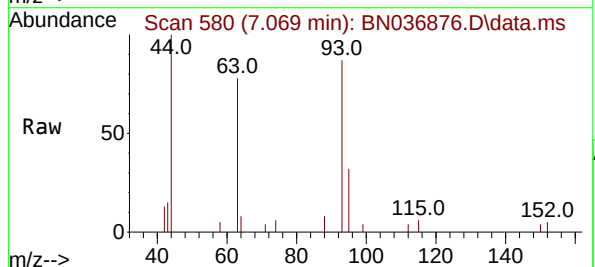
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

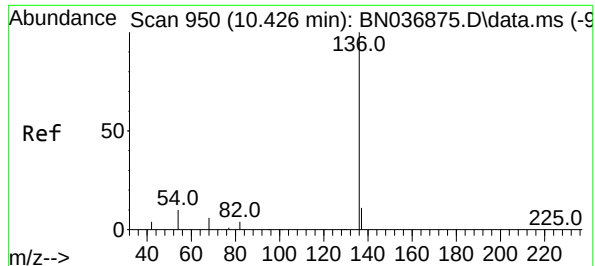
Tgt Ion: 99 Resp: 1511
Ion Ratio Lower Upper
99 100
42 37.9 30.9 46.3
71 45.6 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.778 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion: 93 Resp: 1549
Ion Ratio Lower Upper
93 100
63 86.2 76.4 114.6
95 32.4 26.1 39.1

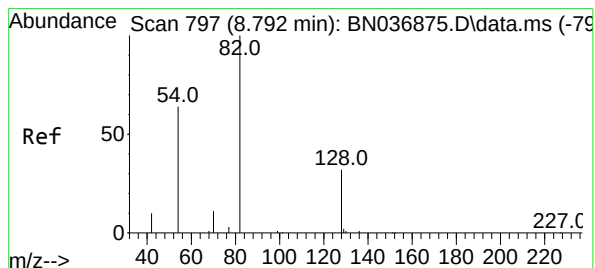
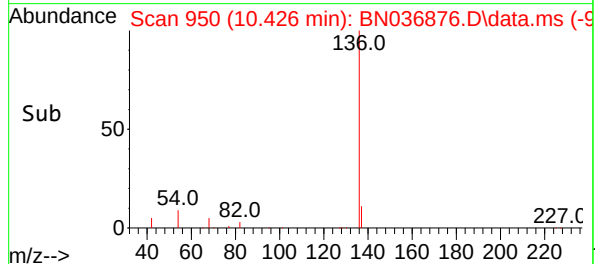
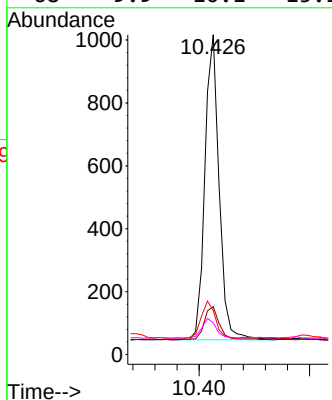
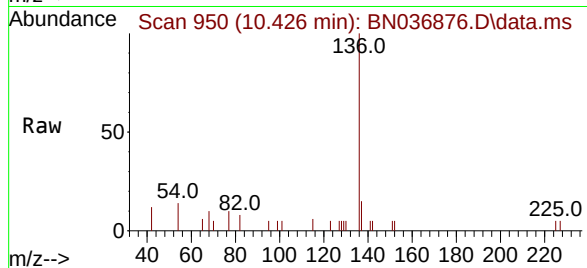




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

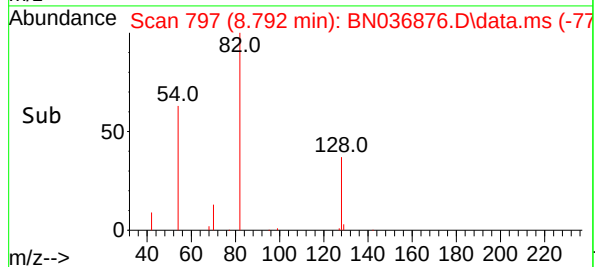
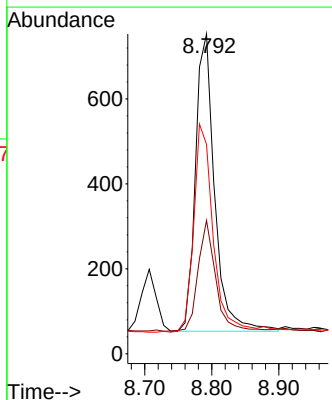
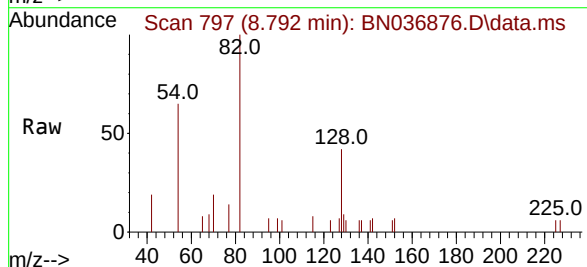
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

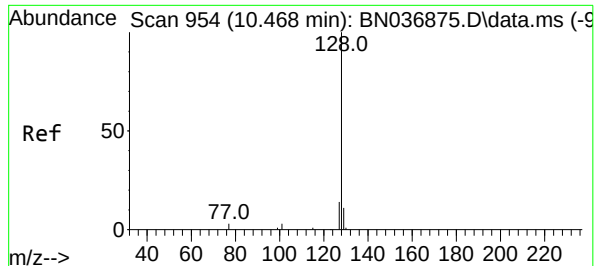
Tgt Ion:	136	Resp:	1743
Ion	Ratio	Lower	Upper
136	100		
137	14.9	13.5	20.3
54	13.8	12.8	19.2
68	9.9	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.711 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:	82	Resp:	1392
Ion	Ratio	Lower	Upper
82	100		
128	41.7	35.5	53.3
54	65.5	56.2	84.4





#9

Naphthalene

Concen: 0.743 ng

RT: 10.468 min Scan# 954

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

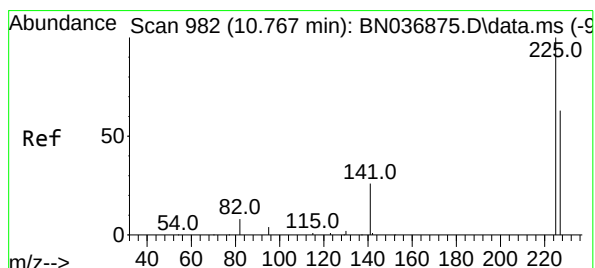
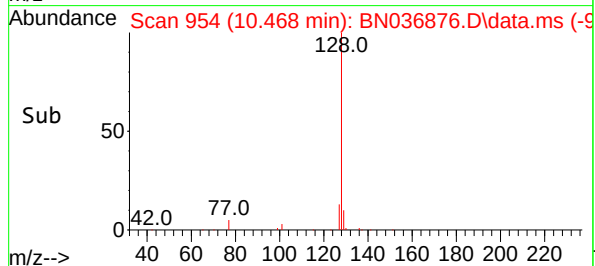
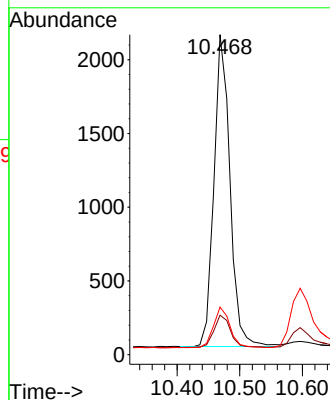
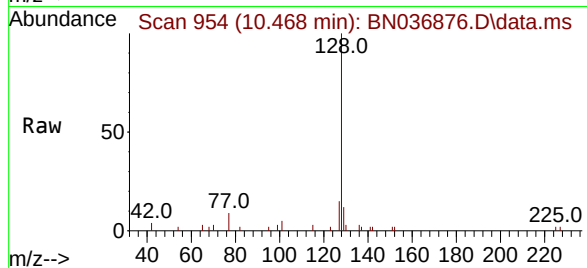
Tgt Ion:128 Resp: 3762

Ion Ratio Lower Upper

128 100

129 12.4 12.9 19.3#

127 14.8 15.0 22.6#



#10

Hexachlorobutadiene

Concen: 0.744 ng

RT: 10.767 min Scan# 982

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

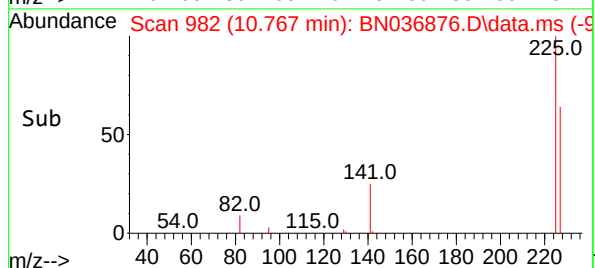
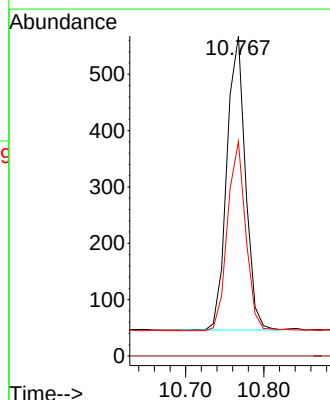
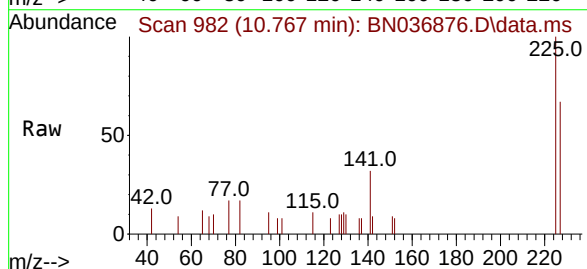
Tgt Ion:225 Resp: 860

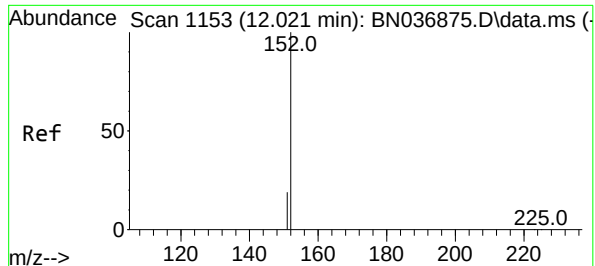
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 50.5 75.7

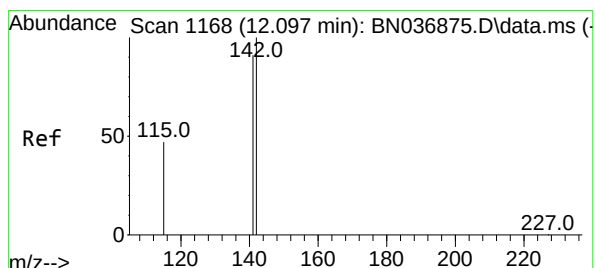
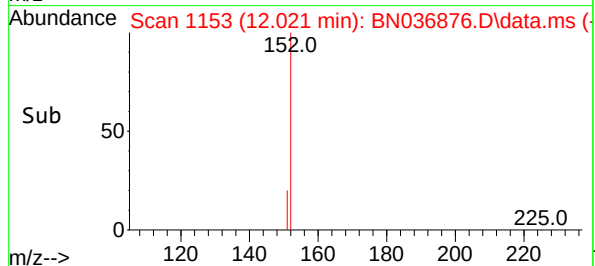
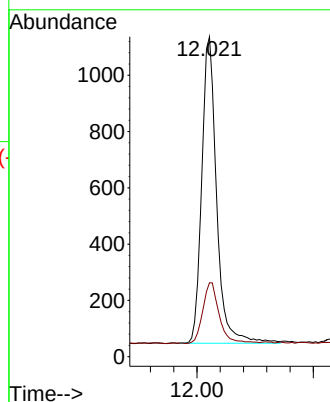
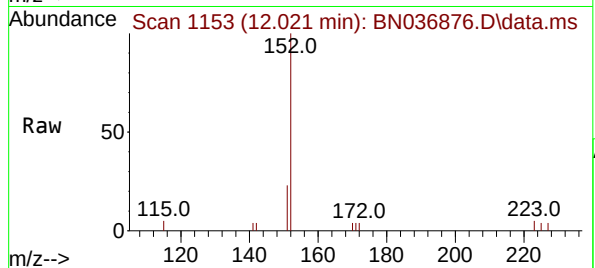




#11
2-Methylnaphthalene-d10
Concen: 0.760 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

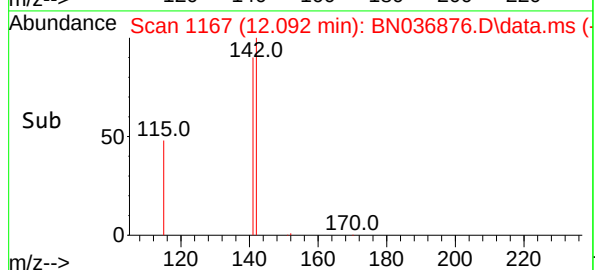
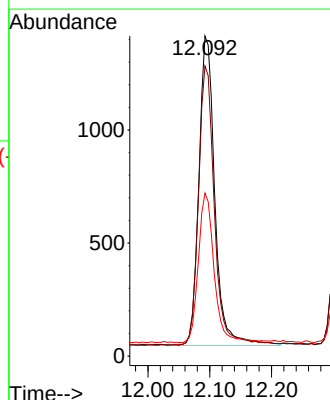
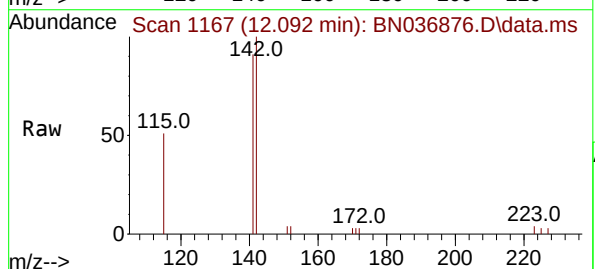
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

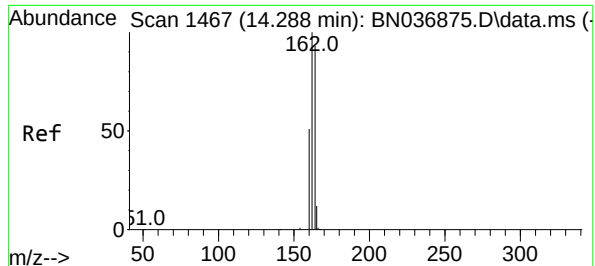
Tgt Ion:152 Resp: 1932
Ion Ratio Lower Upper
152 100
151 22.0 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.757 ng
RT: 12.092 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:142 Resp: 2453
Ion Ratio Lower Upper
142 100
141 90.6 73.8 110.8
115 50.9 43.3 64.9

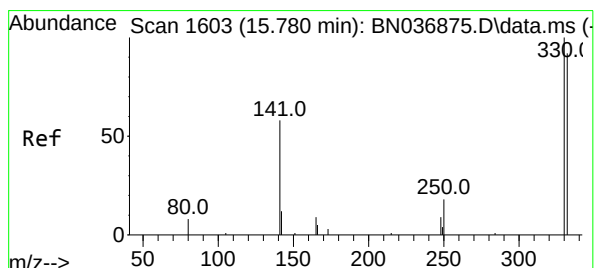
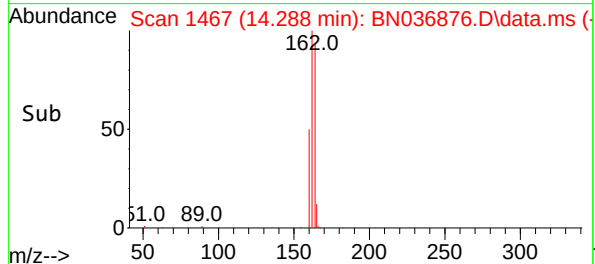
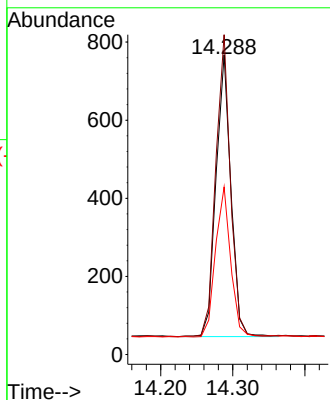
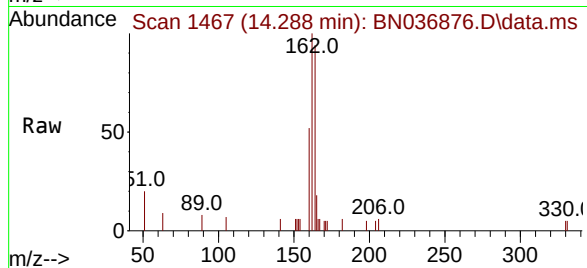




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

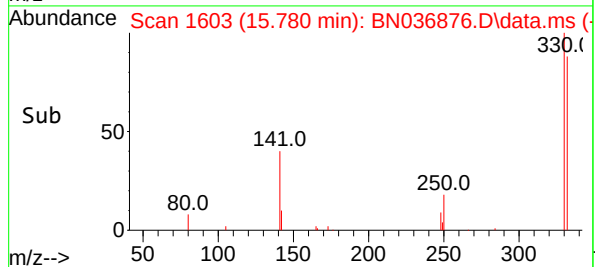
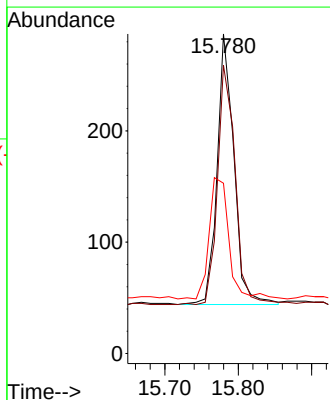
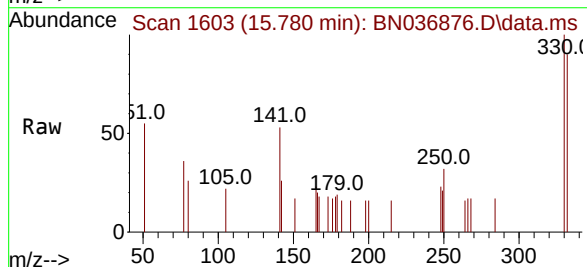
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

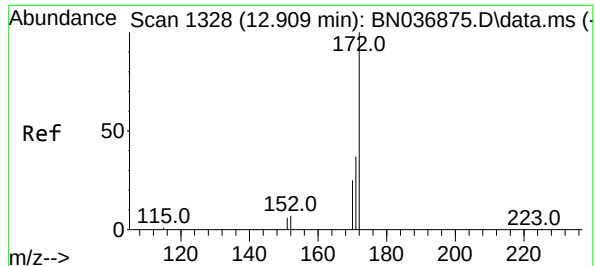
Tgt Ion	164	Resp:	1033
Ion Ratio	Lower	Upper	
164	100		
162	106.6	85.7	128.5
160	55.9	46.9	70.3



#14
2,4,6-Tribromophenol
Concen: 0.774 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion	330	Resp:	386
Ion Ratio	Lower	Upper	
330	100		
332	93.0	87.0	130.6
141	52.6	45.3	67.9





#15

2-Fluorobiphenyl

Concen: 0.701 ng

RT: 12.909 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

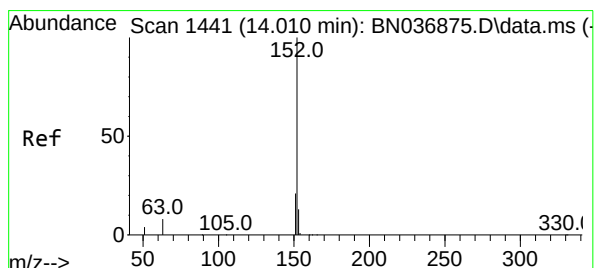
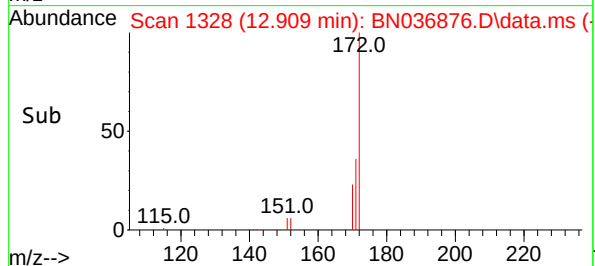
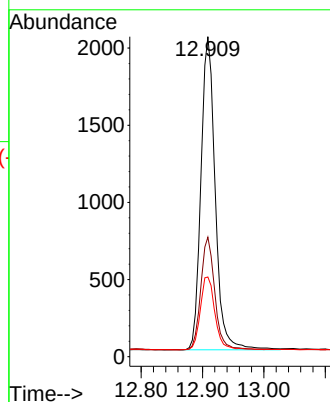
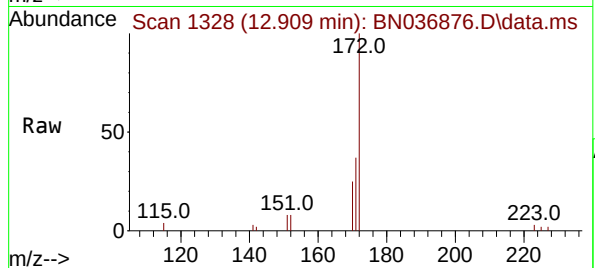
Tgt Ion:172 Resp: 3506

Ion Ratio Lower Upper

172 100

171 37.4 32.7 49.1

170 24.9 23.3 34.9



#16

Acenaphthylene

Concen: 0.751 ng

RT: 13.999 min Scan# 1440

Delta R.T. -0.011 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

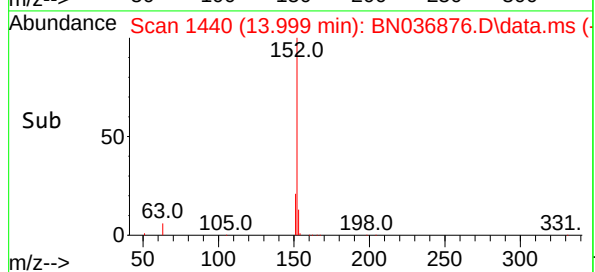
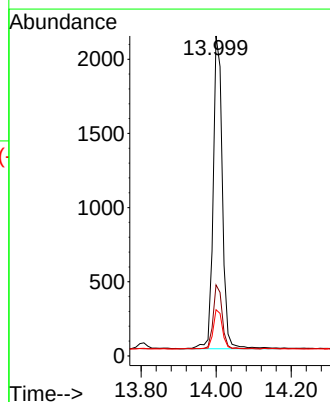
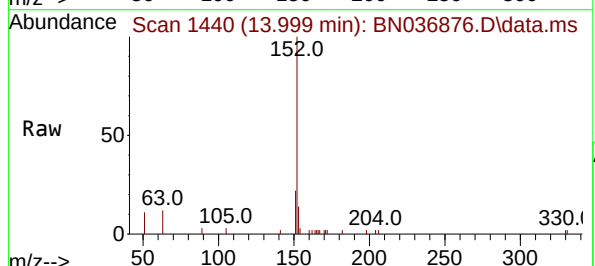
Tgt Ion:152 Resp: 3604

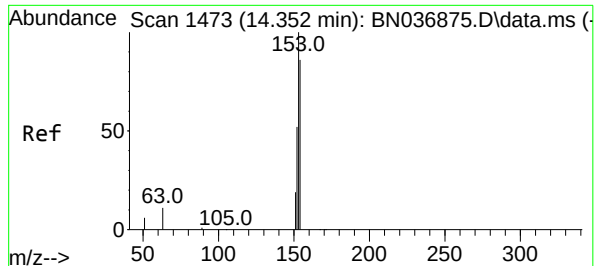
Ion Ratio Lower Upper

152 100

151 19.6 16.4 24.6

153 12.6 10.3 15.5





#17

Acenaphthene

Concen: 0.768 ng

RT: 14.352 min Scan# 1473

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

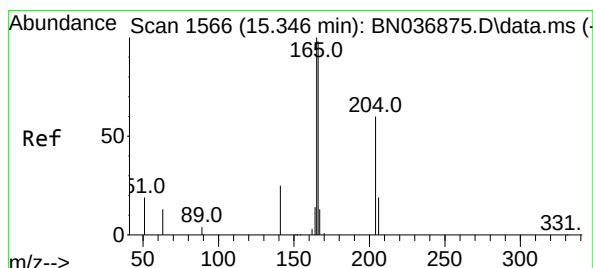
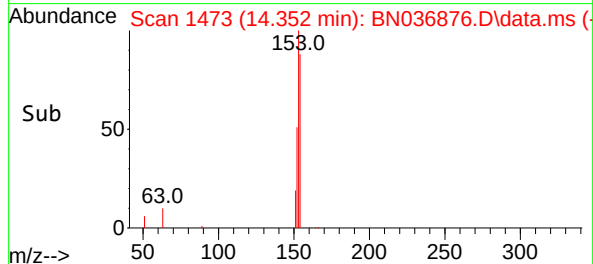
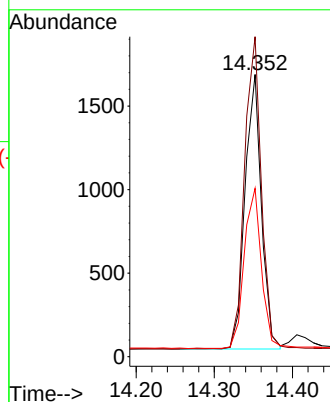
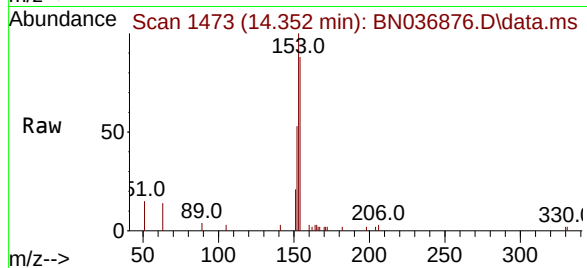
Tgt Ion:154 Resp: 2400

Ion Ratio Lower Upper

154 100

153 116.8 97.8 146.6

152 62.1 52.7 79.1



#18

Fluorene

Concen: 0.750 ng

RT: 15.336 min Scan# 1565

Delta R.T. -0.011 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

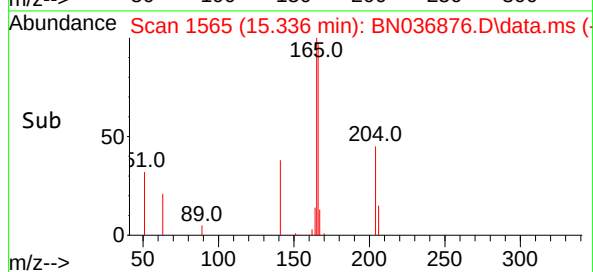
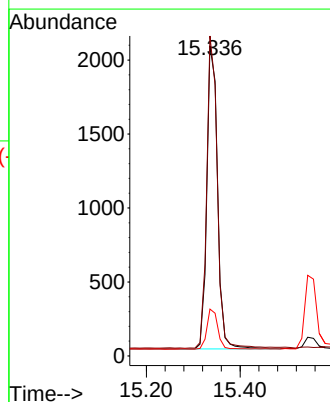
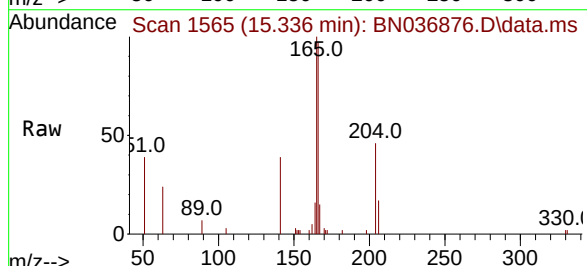
Tgt Ion:166 Resp: 3235

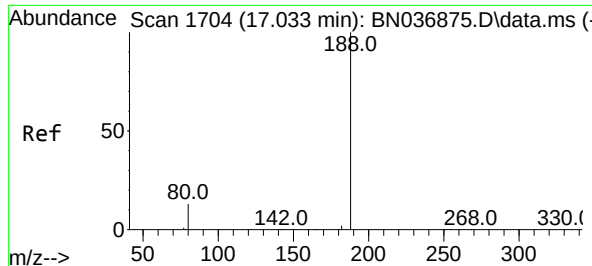
Ion Ratio Lower Upper

166 100

165 101.9 83.2 124.8

167 13.5 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.033 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

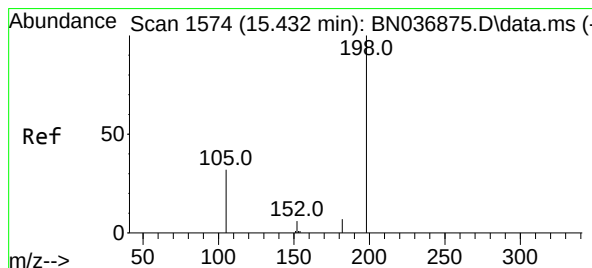
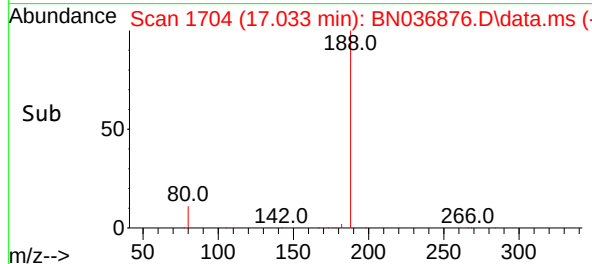
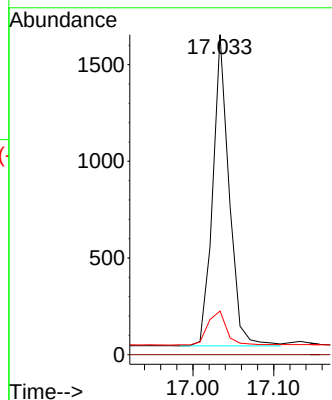
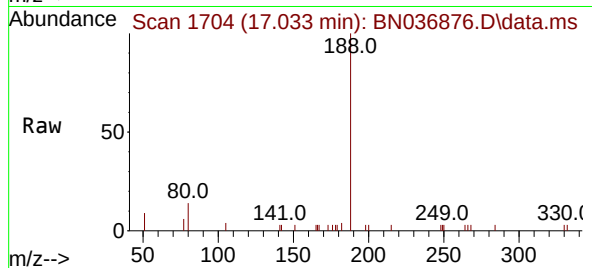
Tgt Ion:188 Resp: 2266

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.7 13.9 20.9#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.789 ng

RT: 15.421 min Scan# 1573

Delta R.T. -0.011 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

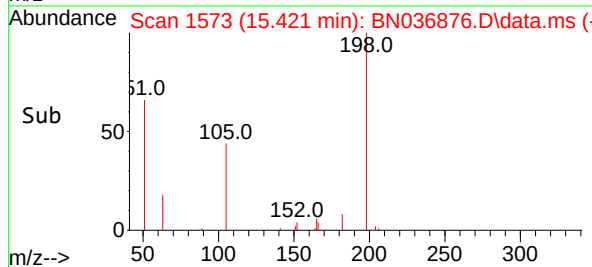
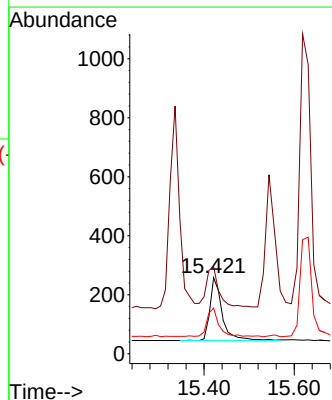
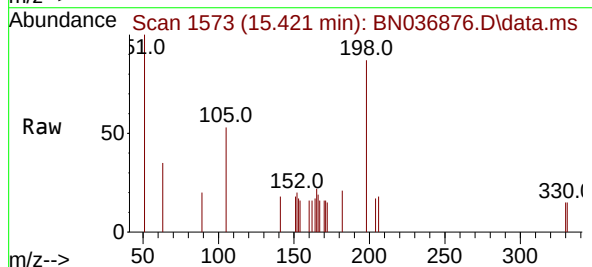
Tgt Ion:198 Resp: 418

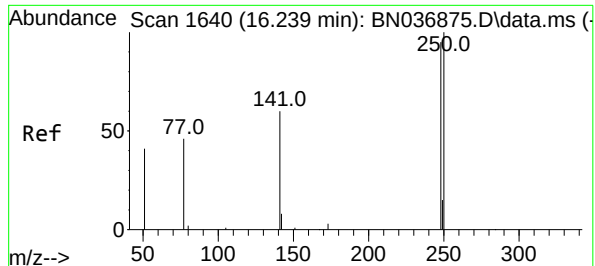
Ion Ratio Lower Upper

198 100

51 114.3 107.6 161.4

105 60.1 55.2 82.8

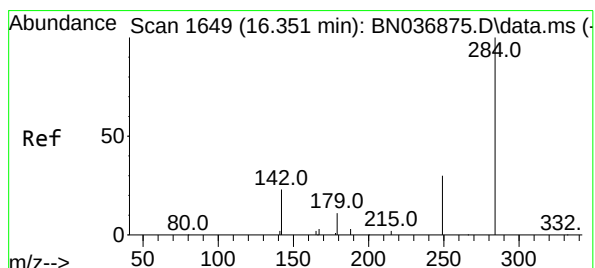
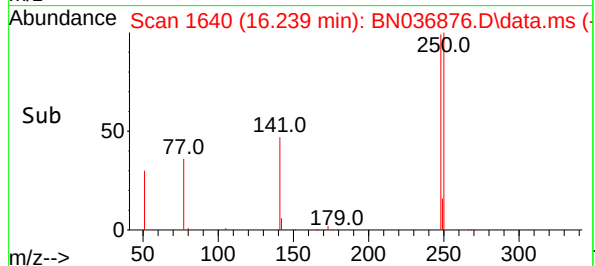
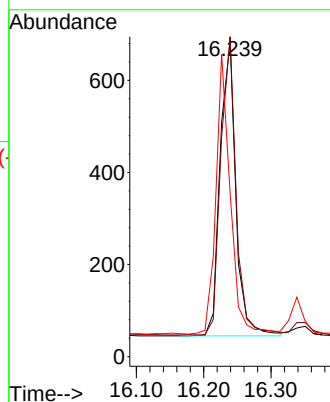
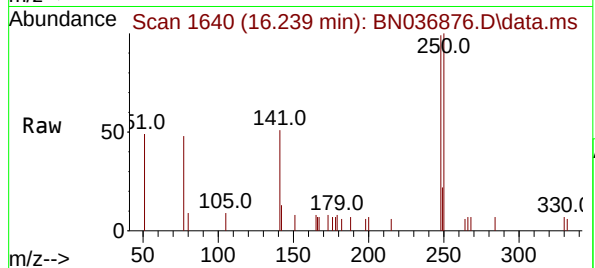




#21
4-Bromophenyl-phenylether
Concen: 0.759 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

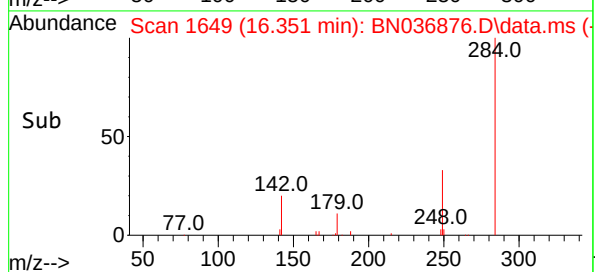
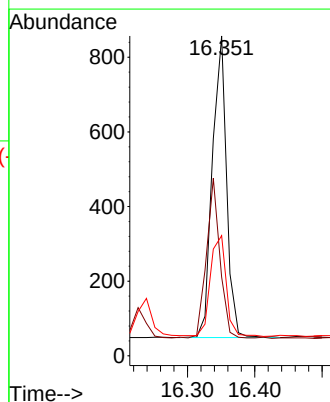
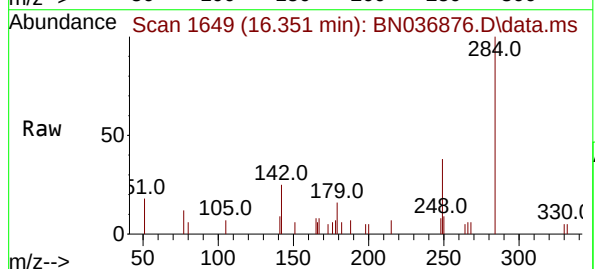
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

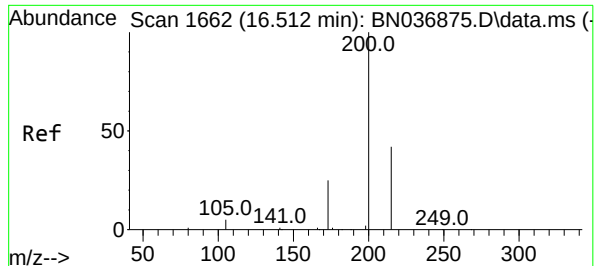
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	83.5	125.3
141	51.7	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.730 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.4	37.7	56.5
249	37.2	29.0	43.6

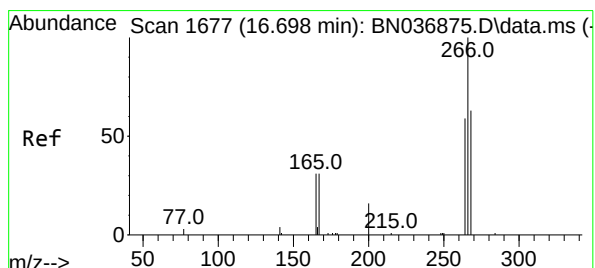
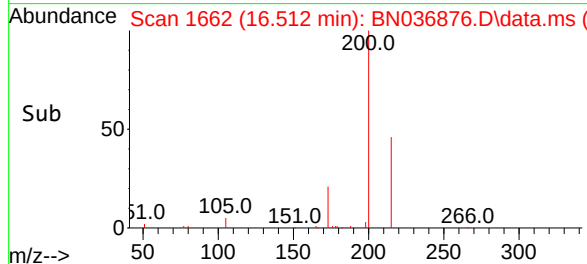
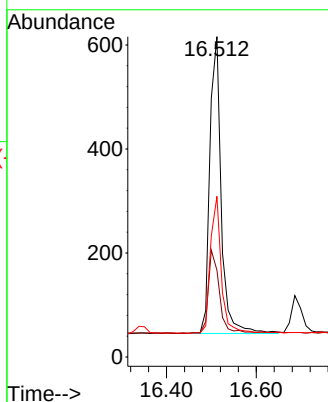
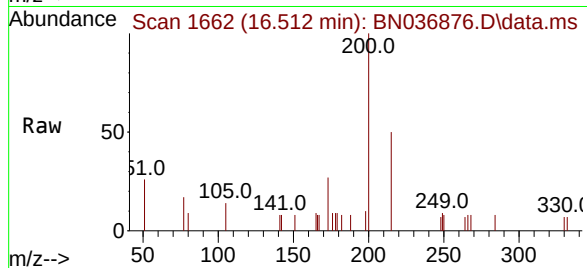




#23
Atrazine
Concen: 0.746 ng
RT: 16.512 min Scan# 1662
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

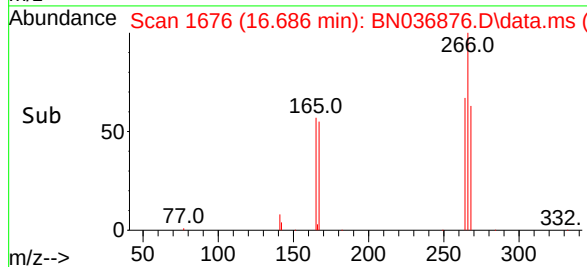
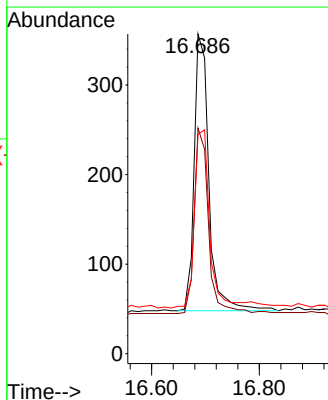
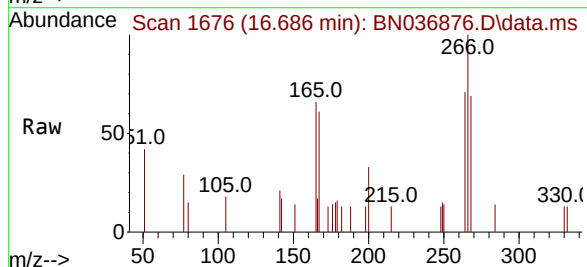
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

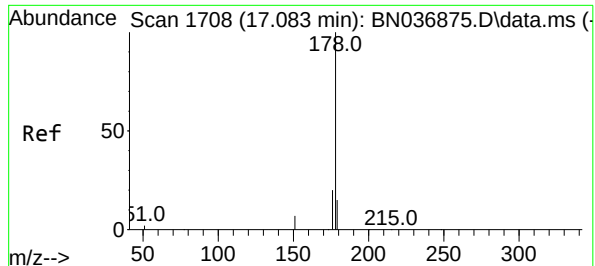
Tgt Ion:200 Resp: 1001
Ion Ratio Lower Upper
200 100
173 27.1 28.6 43.0#
215 50.2 40.5 60.7



#24
Pentachlorophenol
Concen: 0.699 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:266 Resp: 588
Ion Ratio Lower Upper
266 100
264 64.8 44.6 66.8
268 65.6 51.8 77.6

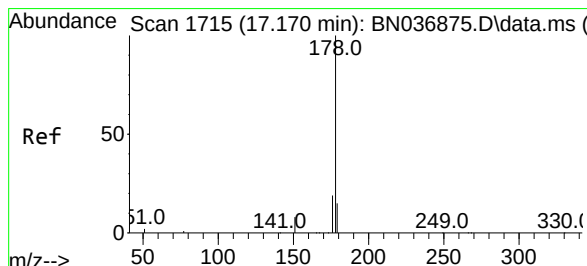
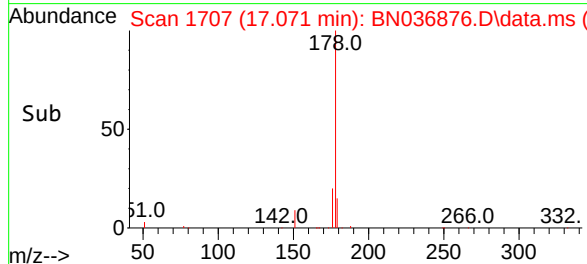
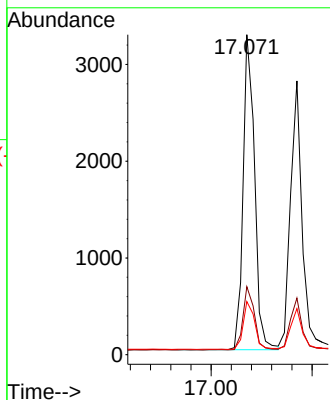
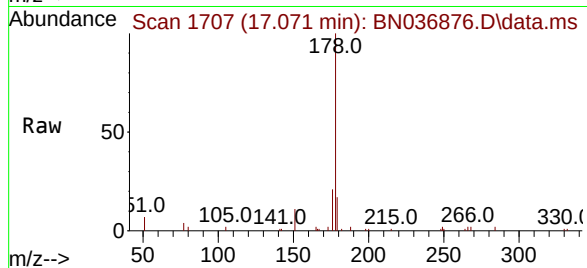




#25
Phenanthrene
Concen: 0.758 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

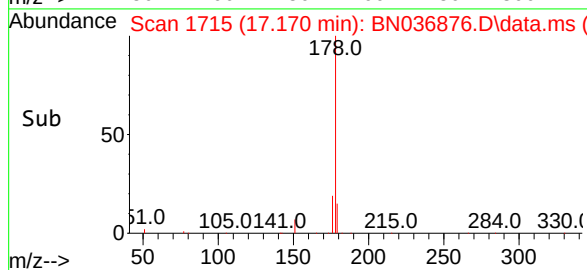
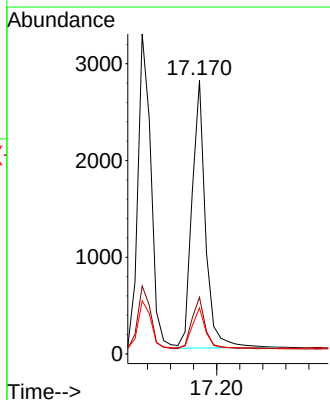
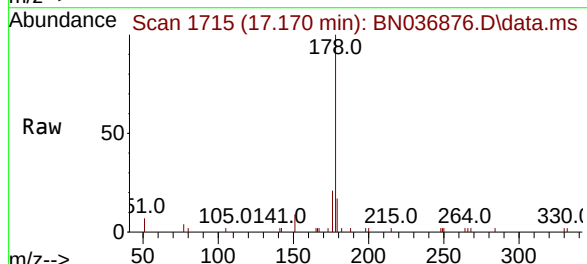
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

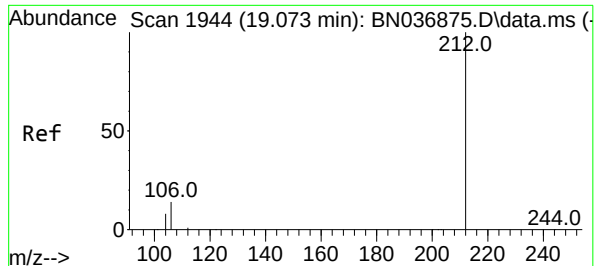
Tgt Ion:178 Resp: 5162
Ion Ratio Lower Upper
178 100
176 20.0 16.6 25.0
179 15.2 12.8 19.2



#26
Anthracene
Concen: 0.744 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion:178 Resp: 4492
Ion Ratio Lower Upper
178 100
176 19.4 15.8 23.6
179 15.0 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.743 ng

RT: 19.073 min Scan# 1944

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

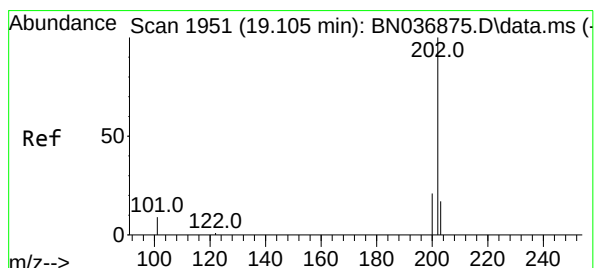
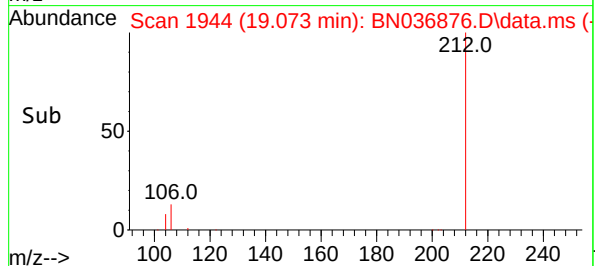
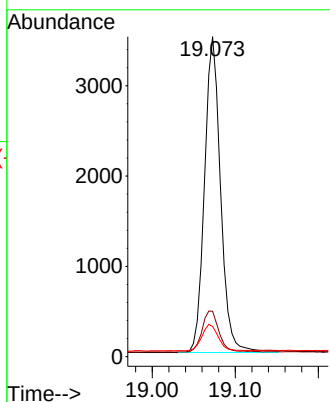
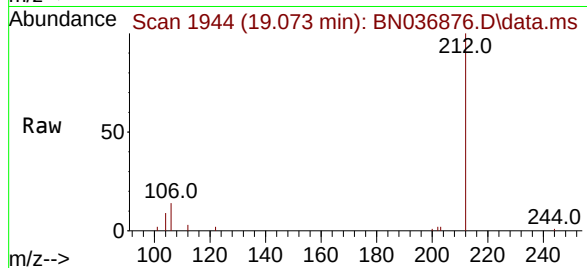
Tgt Ion:212 Resp: 4730

Ion Ratio Lower Upper

212 100

106 13.6 11.2 16.8

104 8.6 7.5 11.3



#28

Fluoranthene

Concen: 0.745 ng

RT: 19.105 min Scan# 1951

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

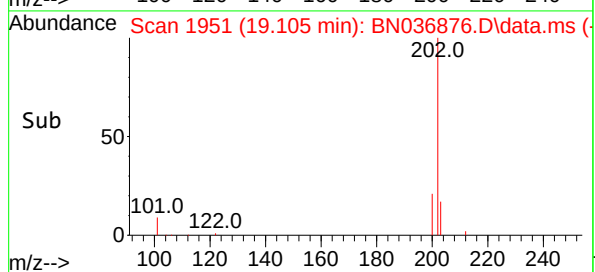
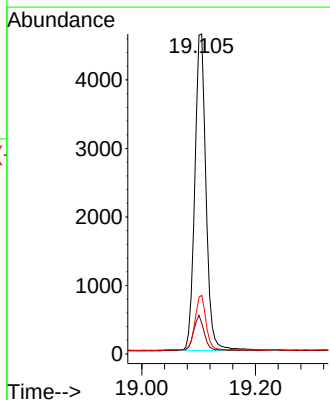
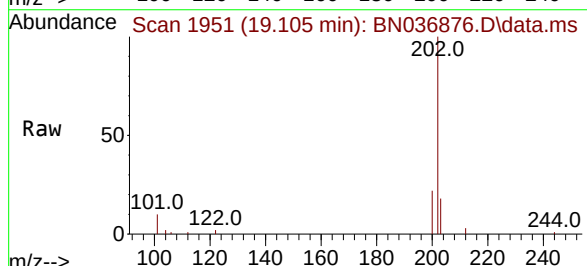
Tgt Ion:202 Resp: 6324

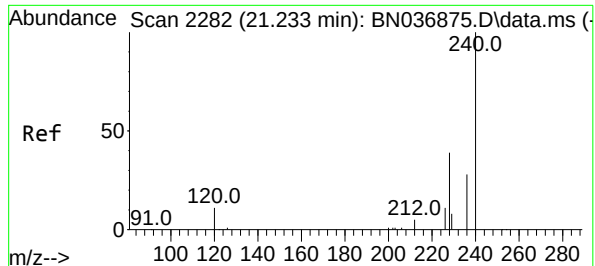
Ion Ratio Lower Upper

202 100

101 10.9 8.5 12.7

203 17.0 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

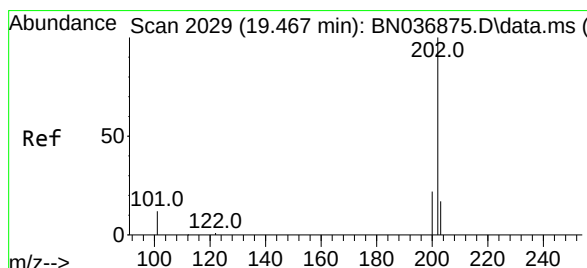
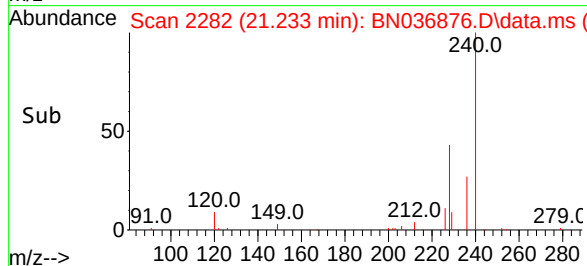
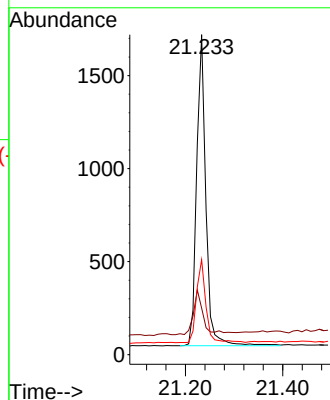
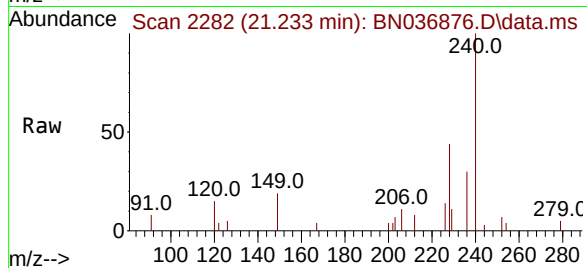
Tgt Ion:240 Resp: 2195

Ion Ratio Lower Upper

240 100

120 14.5 15.8 23.6#

236 29.7 25.8 38.8



#30

Pyrene

Concen: 0.776 ng

RT: 19.468 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

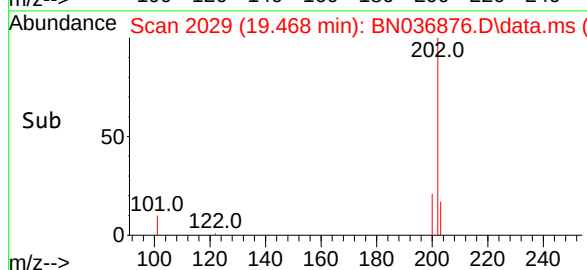
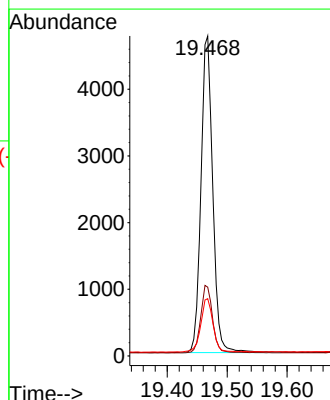
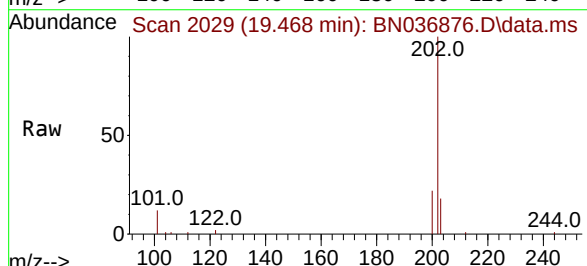
Tgt Ion:202 Resp: 6482

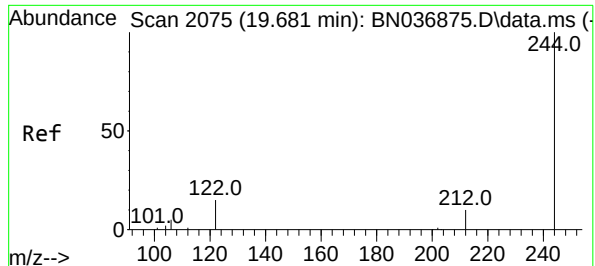
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.5 21.7

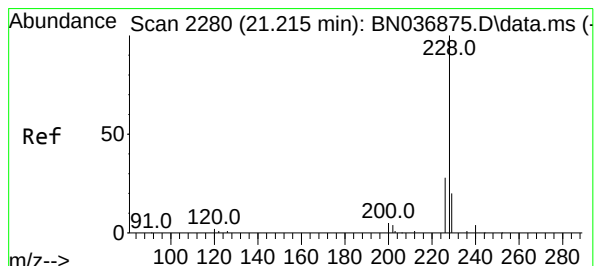
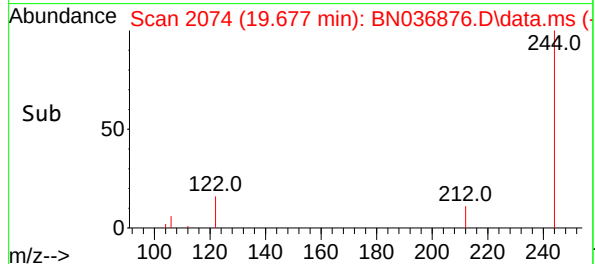
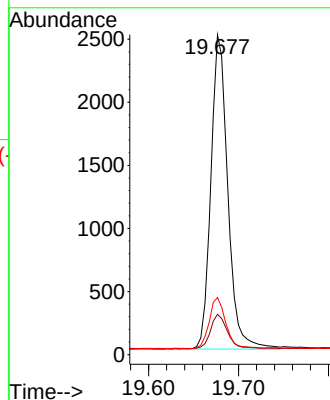
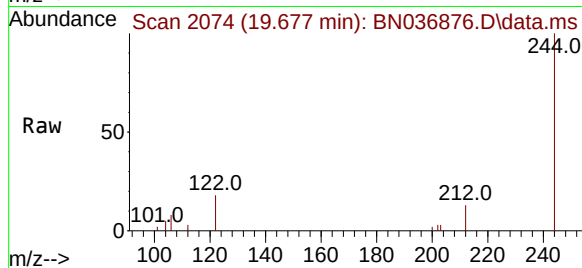




#31
Terphenyl-d14
Concen: 0.774 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

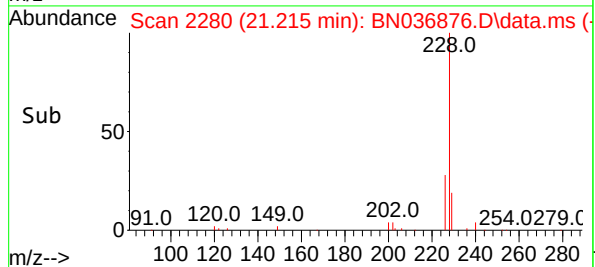
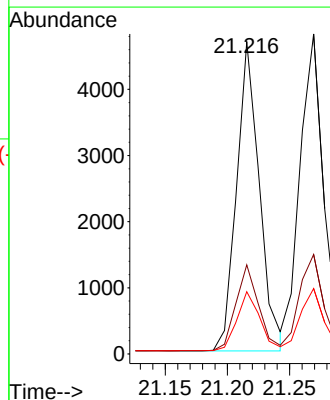
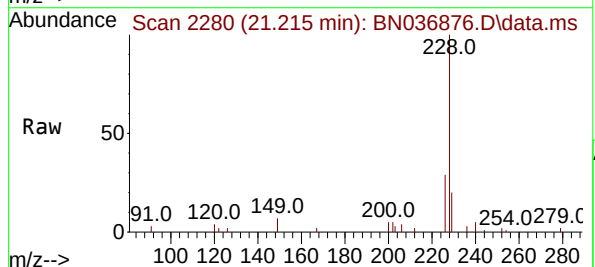
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

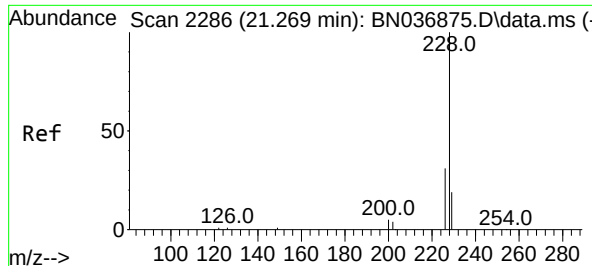
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.6	11.6	17.4
122	17.9	14.9	22.3



#32
Benzo(a)anthracene
Concen: 0.769 ng
RT: 21.215 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036876.D
Acq: 11 Apr 2025 13:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	24.5	36.7
229	19.9	17.7	26.5





#33

Chrysene

Concen: 0.777 ng

RT: 21.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

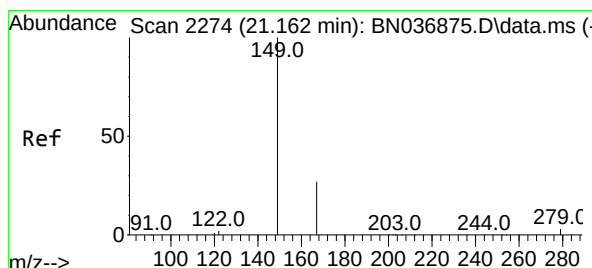
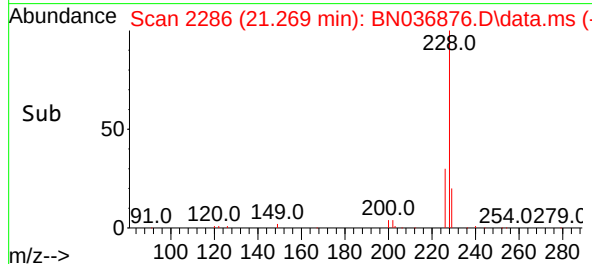
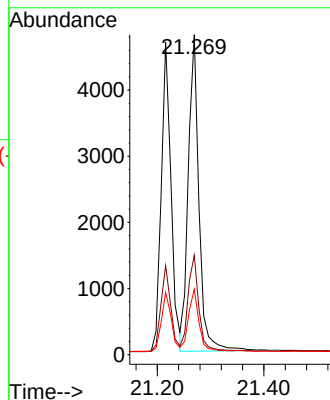
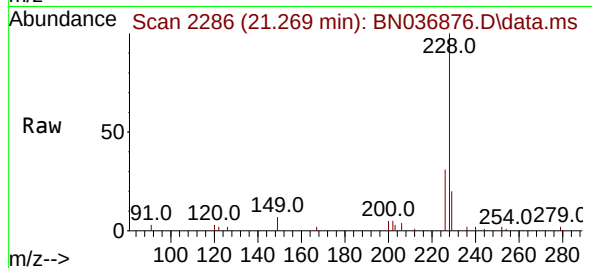
Tgt Ion:228 Resp: 6669

Ion Ratio Lower Upper

228 100

226 31.1 26.1 39.1

229 20.5 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.718 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

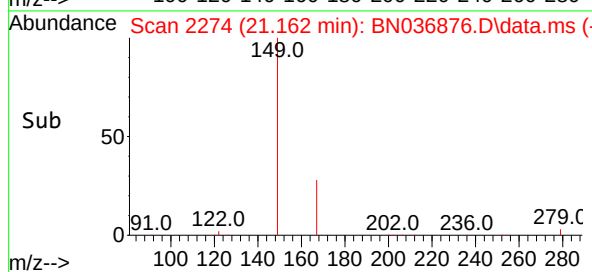
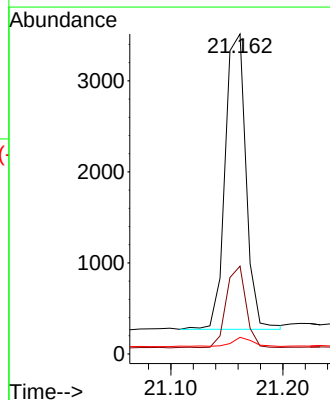
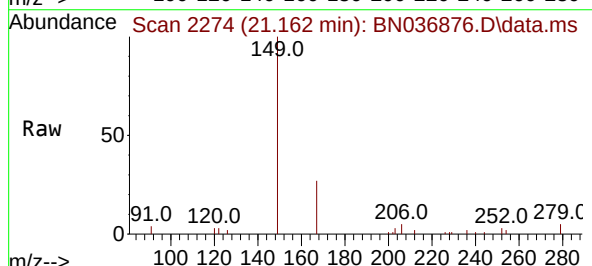
Tgt Ion:149 Resp: 4201

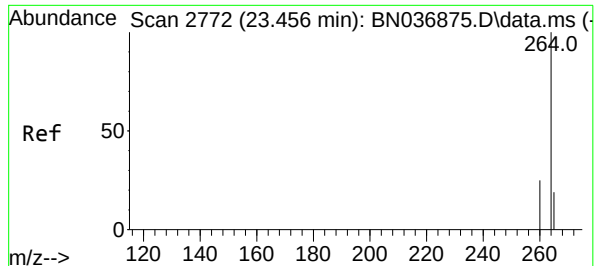
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.4

279 3.0 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.450 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

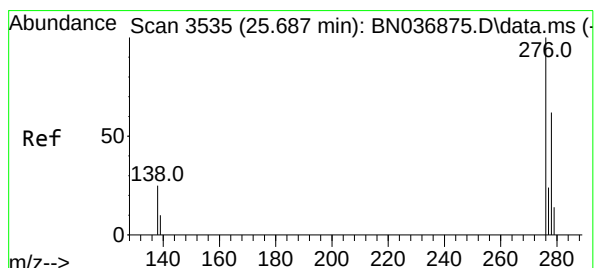
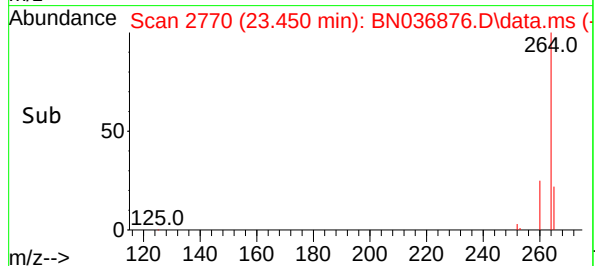
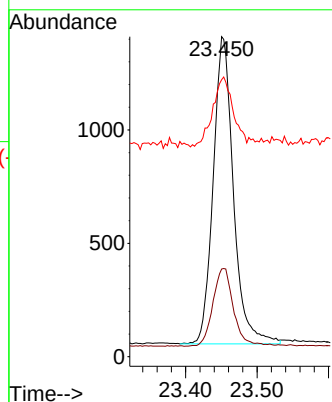
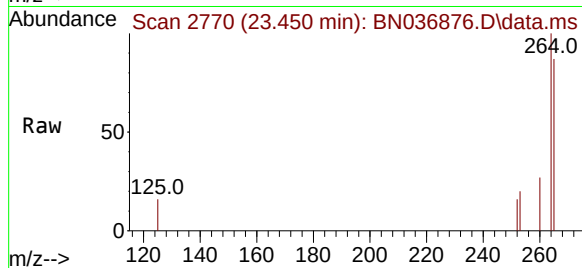
Tgt Ion:264 Resp: 2663

Ion Ratio Lower Upper

264 100

260 27.4 22.9 34.3

265 86.5 88.6 132.8#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.762 ng

RT: 25.684 min Scan# 3534

Delta R.T. -0.003 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

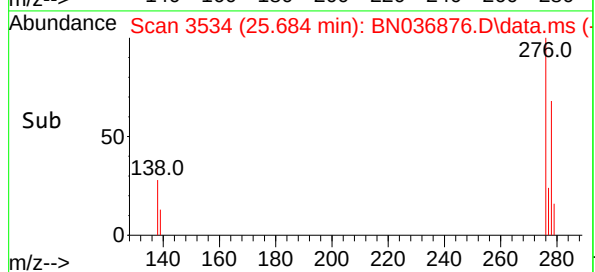
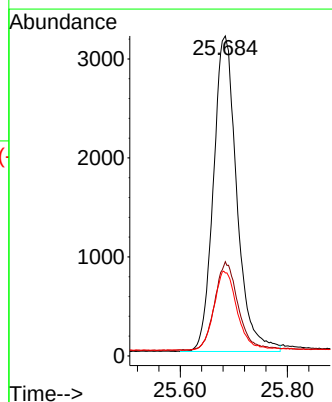
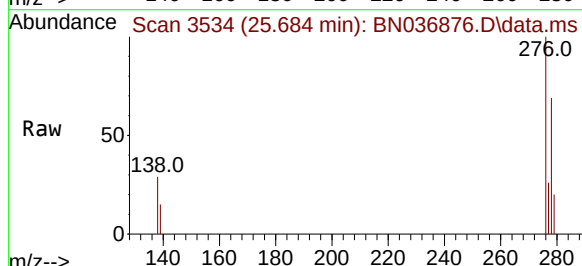
Tgt Ion:276 Resp: 9671

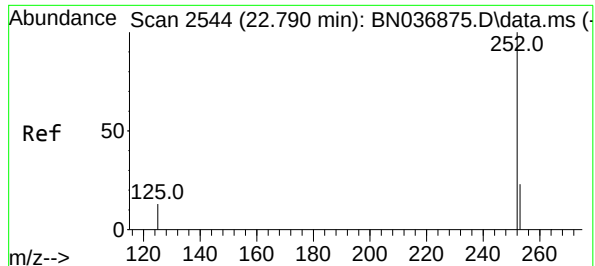
Ion Ratio Lower Upper

276 100

138 27.6 21.0 31.6

277 25.2 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 0.767 ng

RT: 22.787 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

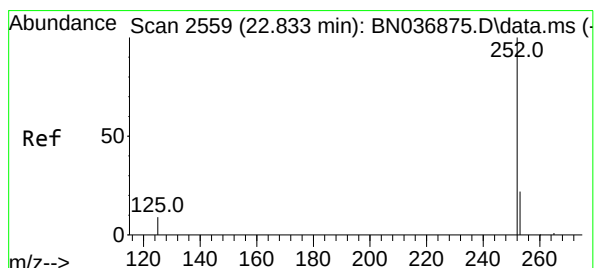
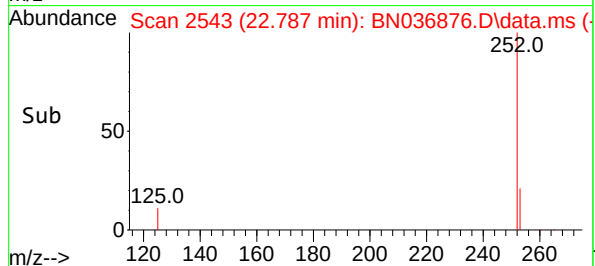
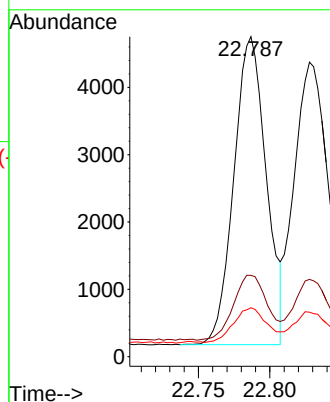
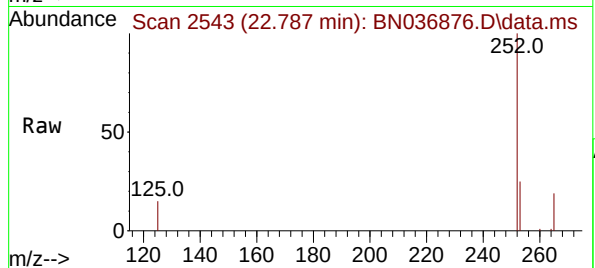
Tgt Ion:252 Resp: 7215

Ion Ratio Lower Upper

252 100

253 25.4 27.0 40.6#

125 15.3 17.7 26.5#



#38

Benzo(k)fluoranthene

Concen: 0.771 ng

RT: 22.828 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

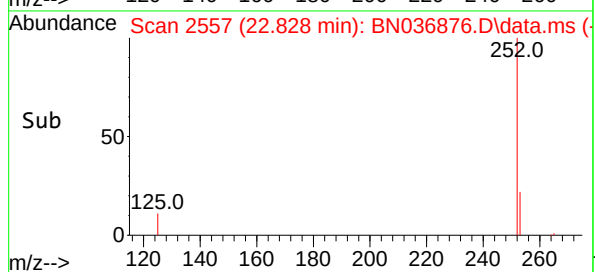
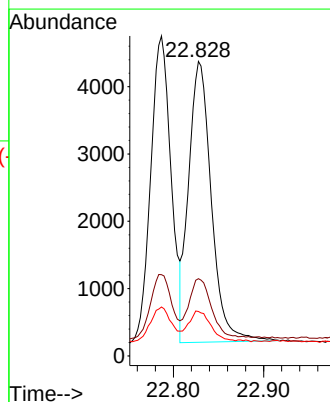
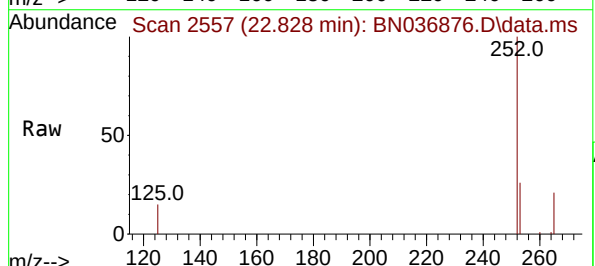
Tgt Ion:252 Resp: 7294

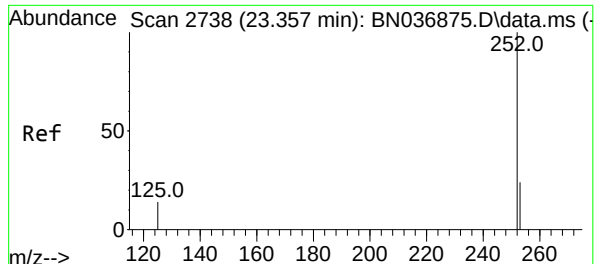
Ion Ratio Lower Upper

252 100

253 26.2 26.7 40.1#

125 15.1 16.9 25.3#





#39

Benzo(a)pyrene

Concen: 0.778 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

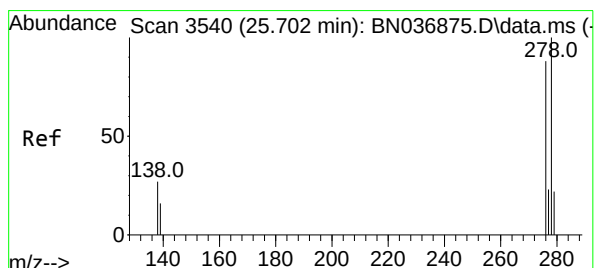
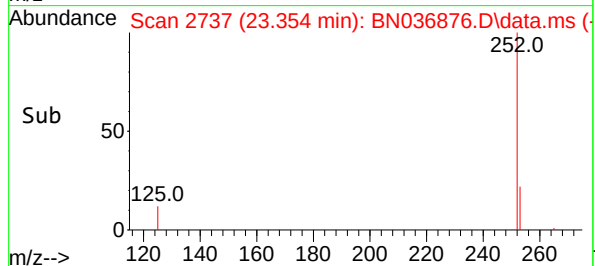
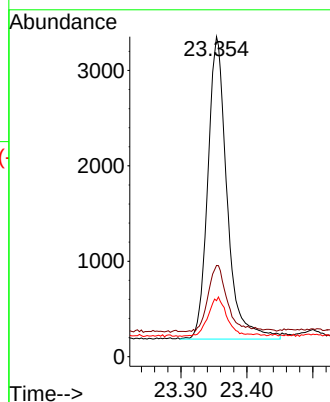
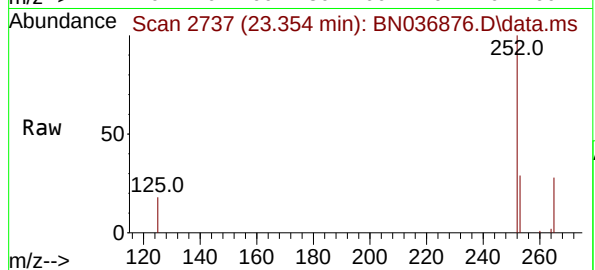
Tgt Ion:252 Resp: 6413

Ion Ratio Lower Upper

252 100

253 28.5 31.5 47.3#

125 17.5 22.6 34.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.788 ng

RT: 25.696 min Scan# 3538

Delta R.T. -0.006 min

Lab File: BN036876.D

Acq: 11 Apr 2025 13:53

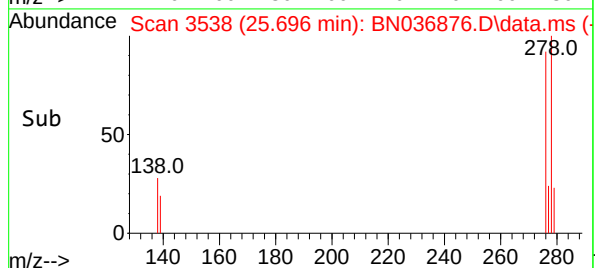
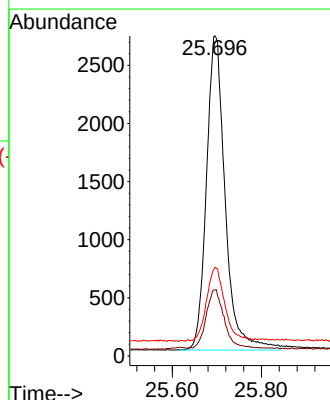
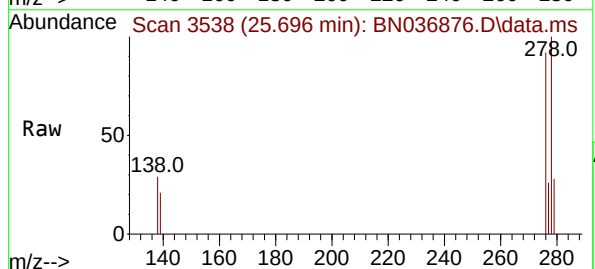
Tgt Ion:278 Resp: 7922

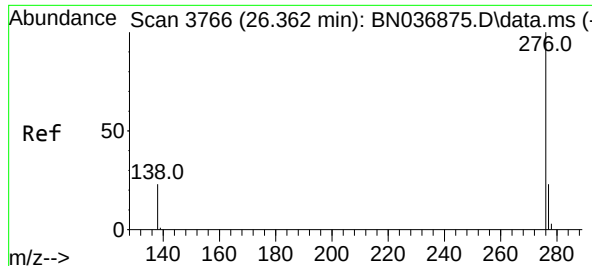
Ion Ratio Lower Upper

278 100

139 20.6 17.6 26.4

279 27.7 26.7 40.1





#41

Benzo(g,h,i)perylene

Concen: 0.760 ng

RT: 26.362 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036876.D

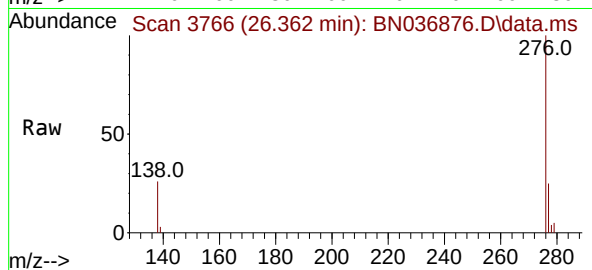
Acq: 11 Apr 2025 13:53

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



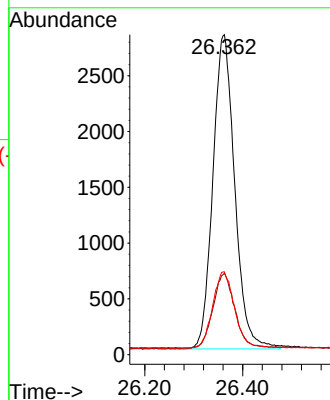
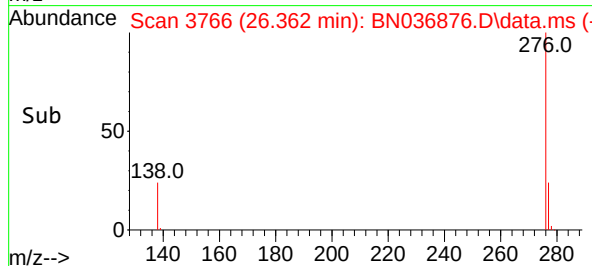
Tgt Ion:276 Resp: 8703

Ion Ratio Lower Upper

276 100

277 25.5 21.8 32.8

138 25.9 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036877.D
 Acq On : 11 Apr 2025 14:30
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Apr 11 15:36:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:32:59 2025
 Response via : Initial Calibration

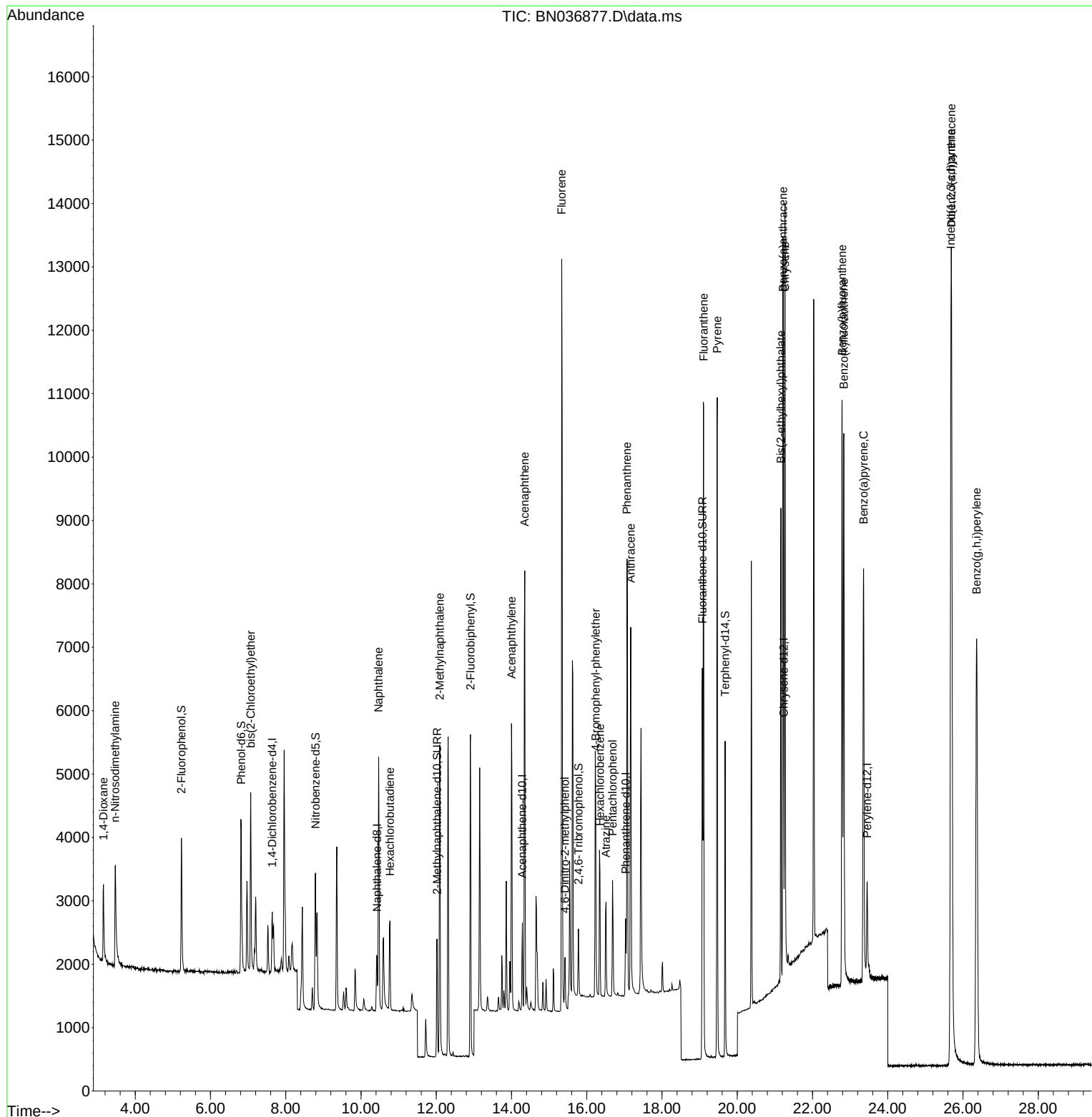
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	450	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	1197	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	725	0.400	ng	0.00
19) Phenanthrene-d10	17.034	188	1602	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1632	0.400	ng	0.00
35) Perylene-d12	23.453	264	2020	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	1605	1.502	ng	0.00
5) Phenol-d6	6.817	99	2065	1.518	ng	0.00
8) Nitrobenzene-d5	8.792	82	1892	1.407	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	2739	1.569	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	536	1.531	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	5500	1.568	ng	0.00
27) Fluoranthene-d10	19.073	212	6992	1.554	ng	0.00
31) Terphenyl-d14	19.677	244	4823	1.545	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	819	1.539	ng	91
3) n-Nitrosodimethylamine	3.466	42	1839	1.569	ng	# 99
6) bis(2-Chloroethyl)ether	7.069	93	2024	1.505	ng	93
9) Naphthalene	10.468	128	5133	1.476	ng	# 91
10) Hexachlorobutadiene	10.767	225	1147	1.444	ng	# 100
12) 2-Methylnaphthalene	12.092	142	3403	1.529	ng	97
16) Acenaphthylene	13.999	152	5075	1.507	ng	100
17) Acenaphthene	14.352	154	3340	1.522	ng	96
18) Fluorene	15.336	166	4621	1.526	ng	97
20) 4,6-Dinitro-2-methylph...	15.421	198	589	1.573	ng	# 68
21) 4-Bromophenyl-phenylether	16.239	248	1476	1.529	ng	# 90
22) Hexachlorobenzene	16.351	284	1673	1.456	ng	97
23) Atrazine	16.512	200	1431	1.508	ng	# 92
24) Pentachlorophenol	16.686	266	857	1.440	ng	95
25) Phenanthrene	17.071	178	7364	1.530	ng	97
26) Anthracene	17.170	178	6636	1.555	ng	98
28) Fluoranthene	19.105	202	9374	1.562	ng	99
30) Pyrene	19.468	202	9592	1.545	ng	99
32) Benzo(a)anthracene	21.216	228	9153	1.593	ng	95
33) Chrysene	21.269	228	10135	1.588	ng	97
34) Bis(2-ethylhexyl)phtha...	21.162	149	6463	1.486	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.681	276	15556	1.615	ng	97
37) Benzo(b)fluoranthene	22.787	252	11121	1.559	ng	# 83
38) Benzo(k)fluoranthene	22.831	252	11185	1.558	ng	# 85
39) Benzo(a)pyrene	23.357	252	9906	1.585	ng	# 78
40) Dibenzo(a,h)anthracene	25.693	278	12606	1.653	ng	# 89
41) Benzo(g,h,i)perylene	26.362	276	13927	1.604	ng	97

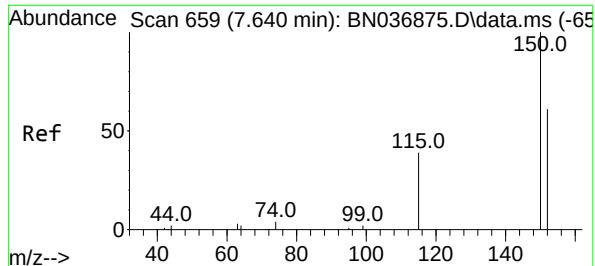
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036877.D
Acq On : 11 Apr 2025 14:30
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Apr 11 15:36:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

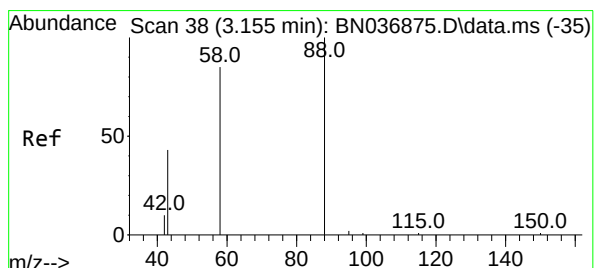
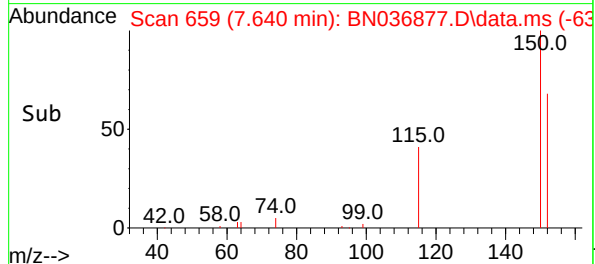
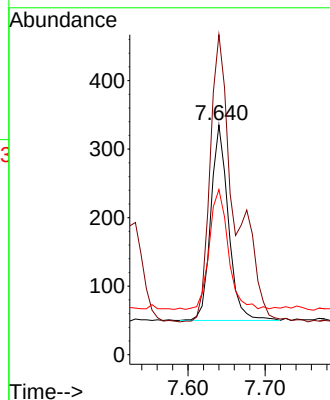
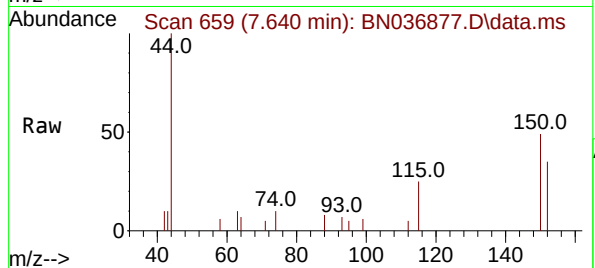




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

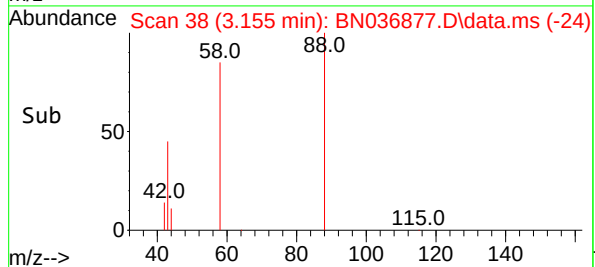
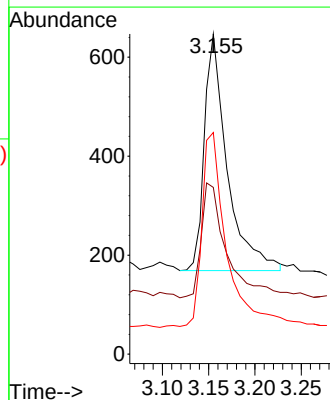
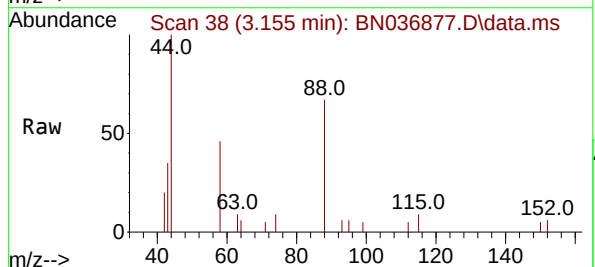
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

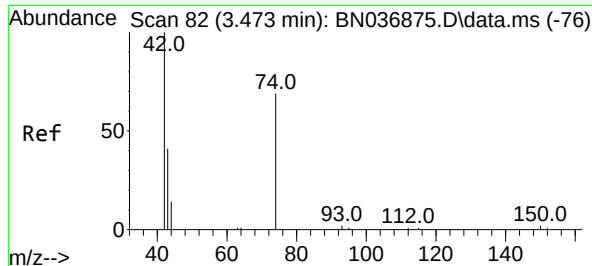
Tgt Ion:152 Resp: 450
Ion Ratio Lower Upper
152 100
150 139.4 123.0 184.6
115 71.9 60.1 90.1



#2
1,4-Dioxane
Concen: 1.539 ng
RT: 3.155 min Scan# 38
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion: 88 Resp: 819
Ion Ratio Lower Upper
88 100
43 53.6 39.2 58.8
58 89.0 63.5 95.3

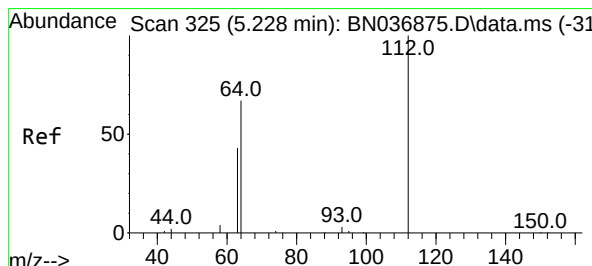
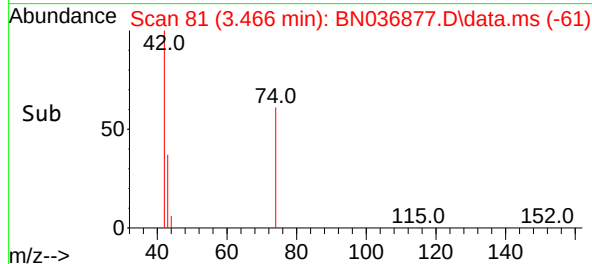
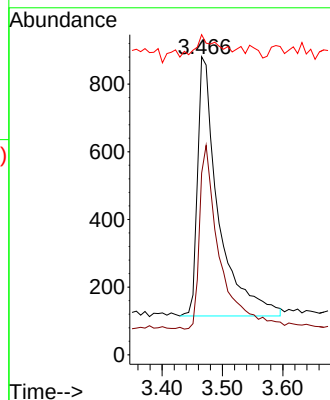
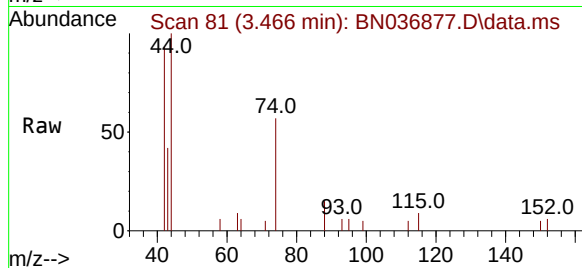




#3
n-Nitrosodimethylamine
Concen: 1.569 ng
RT: 3.466 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

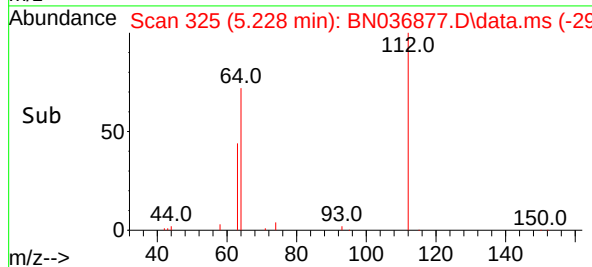
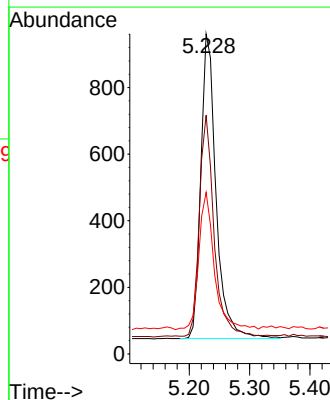
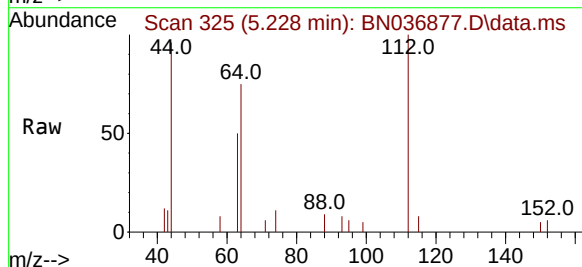
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

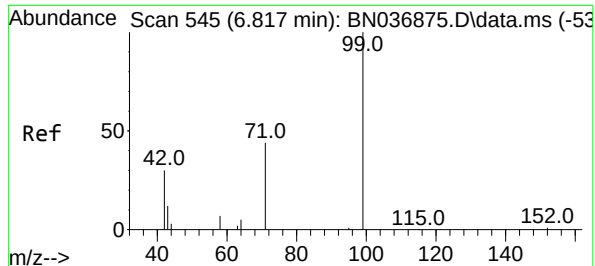
Tgt Ion: 42 Resp: 1839
Ion Ratio Lower Upper
42 100
74 68.7 54.6 81.8
44 6.9 0.0 0.0#



#4
2-Fluorophenol
Concen: 1.502 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion: 112 Resp: 1605
Ion Ratio Lower Upper
112 100
64 69.7 54.0 81.0
63 45.9 35.1 52.7

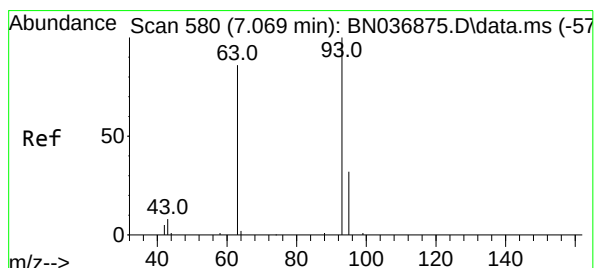
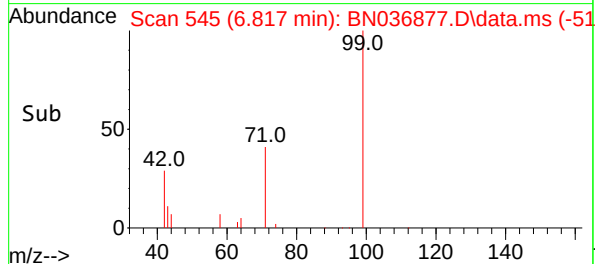
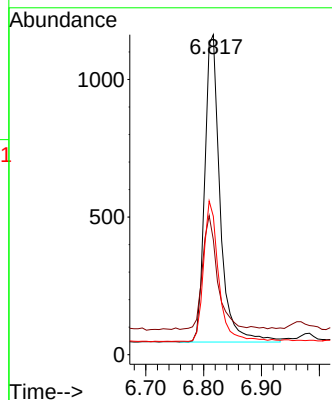
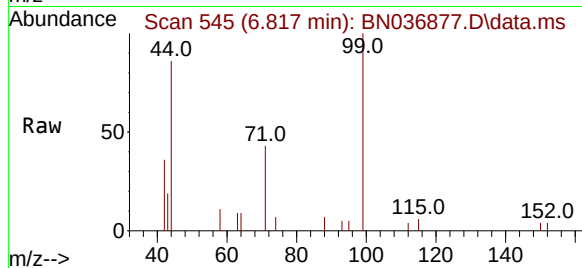




#5
Phenol-d6
Concen: 1.518 ng
RT: 6.817 min Scan# 54
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

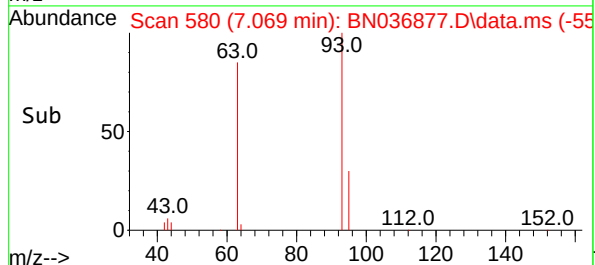
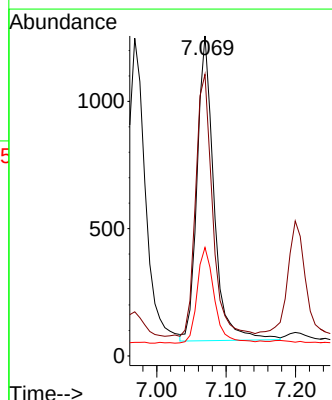
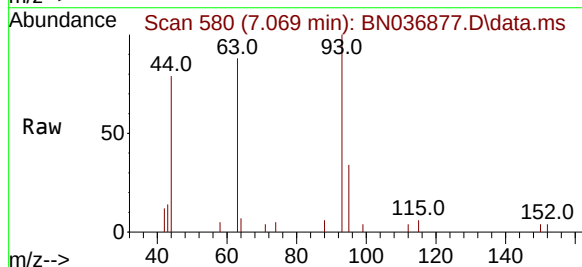
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

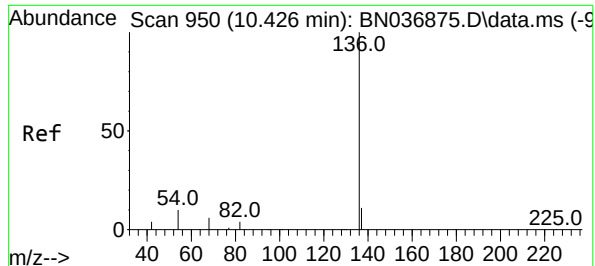
Tgt Ion: 99 Resp: 2065
Ion Ratio Lower Upper
99 100
42 35.9 30.9 46.3
71 45.1 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 1.505 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion: 93 Resp: 2024
Ion Ratio Lower Upper
93 100
63 86.2 76.4 114.6
95 31.9 26.1 39.1

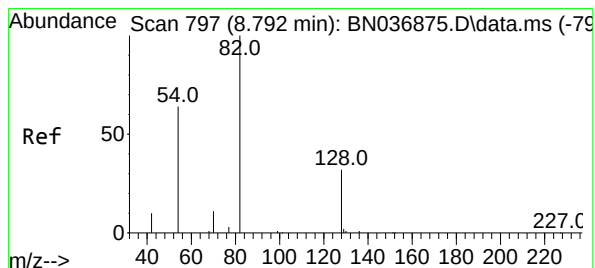
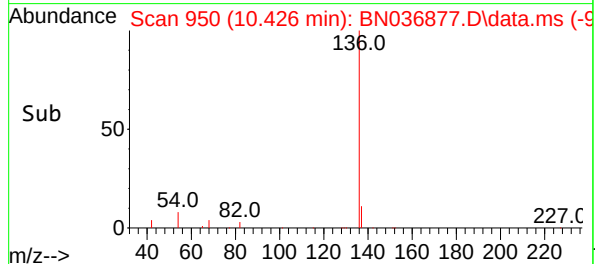
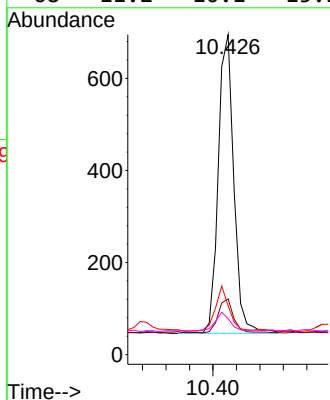
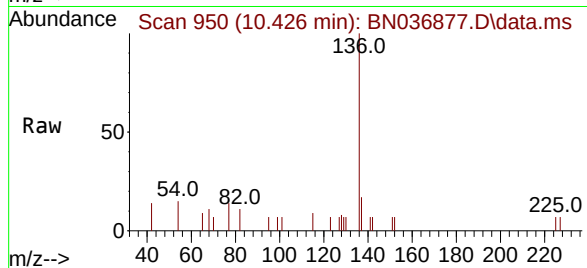




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

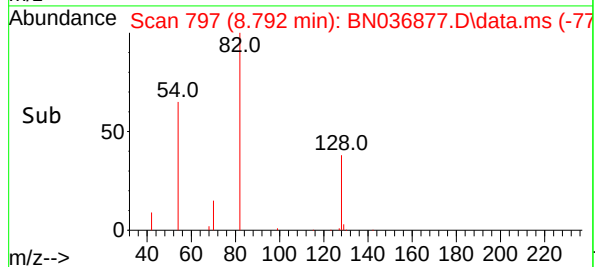
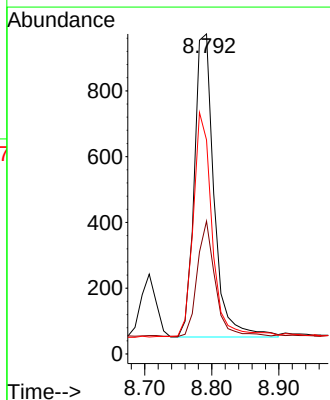
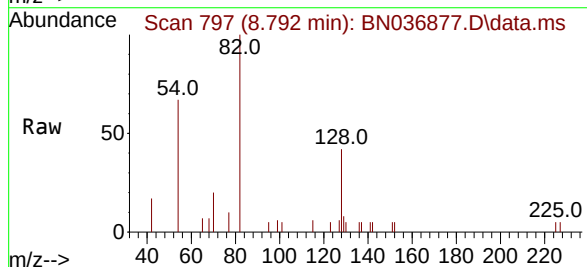
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

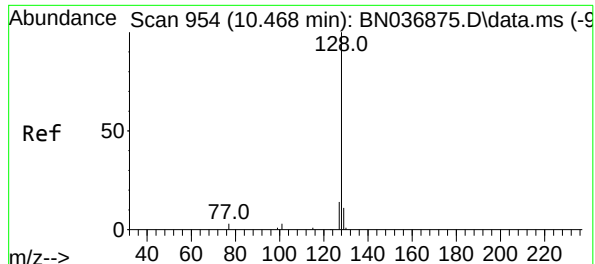
Tgt Ion:	136	Resp:	1197
Ion	Ratio	Lower	Upper
136	100		
137	17.4	13.5	20.3
54	15.3	12.8	19.2
68	11.2	10.1	15.1



#8
Nitrobenzene-d5
Concen: 1.407 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion:	82	Resp:	1892
Ion	Ratio	Lower	Upper
82	100		
128	41.5	35.5	53.3
54	66.9	56.2	84.4

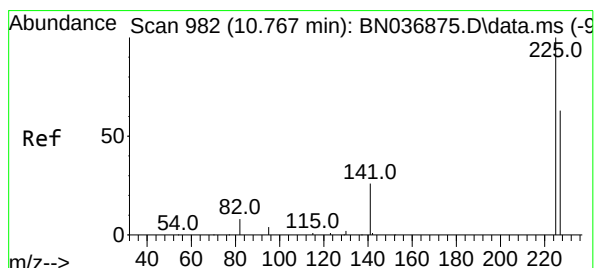
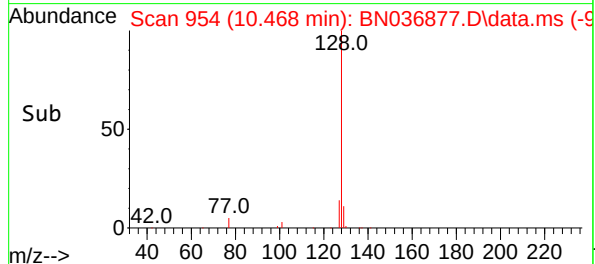
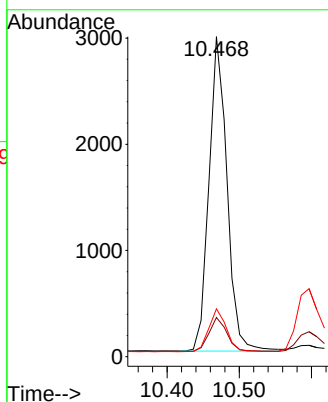
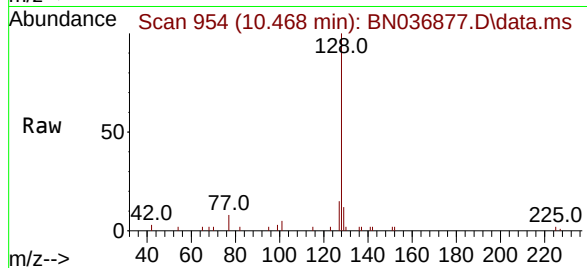




#9
Naphthalene
Concen: 1.476 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

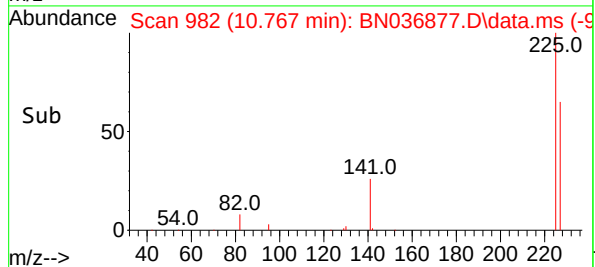
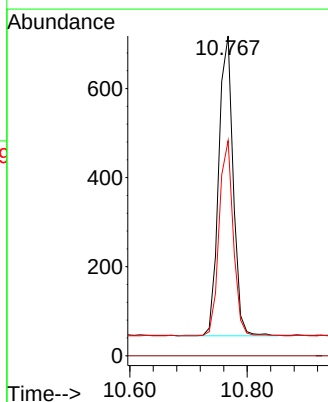
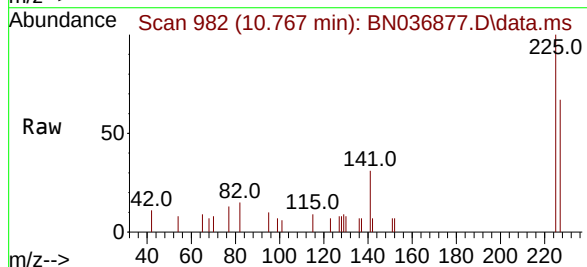
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

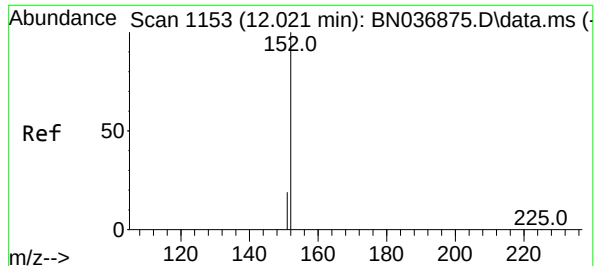
Tgt Ion	128	129	127
Resp:	5133		
Ion Ratio	100	12.3	15.0
Lower		12.9	15.0
Upper		19.3#	22.6#



#10
Hexachlorobutadiene
Concen: 1.444 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion	225	223	227
Resp:	1147		
Ion Ratio	100	0.0	63.4
Lower		0.0	50.5
Upper		0.0	75.7

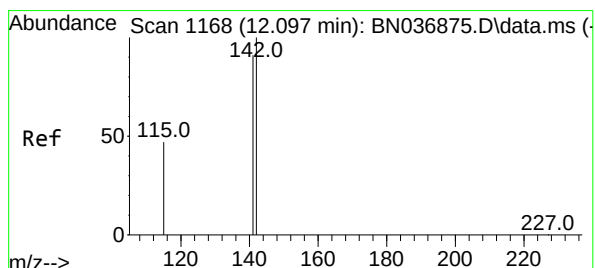
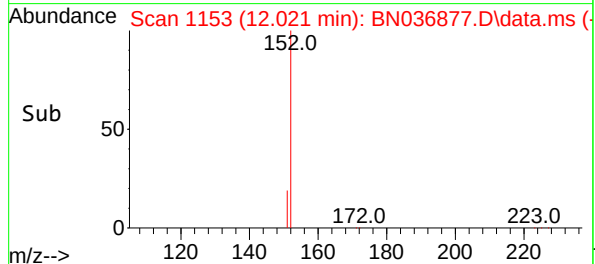
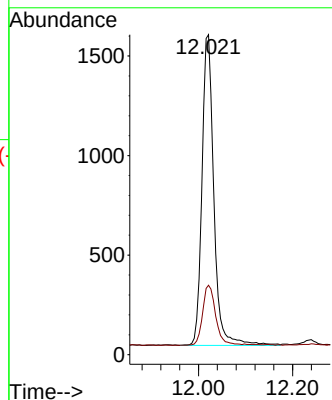
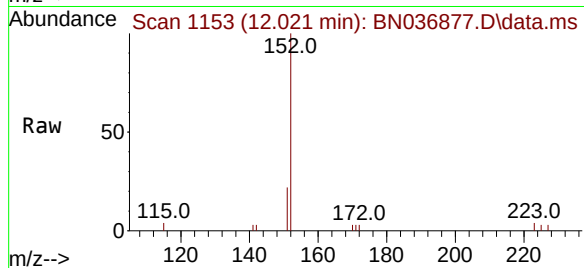




#11
2-Methylnaphthalene-d10
Concen: 1.569 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

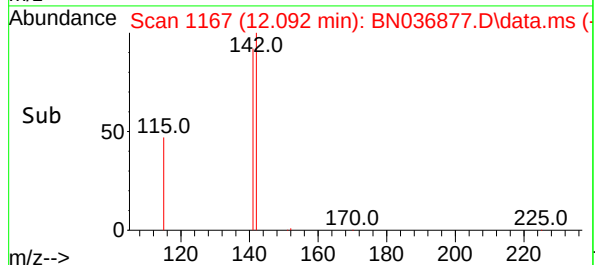
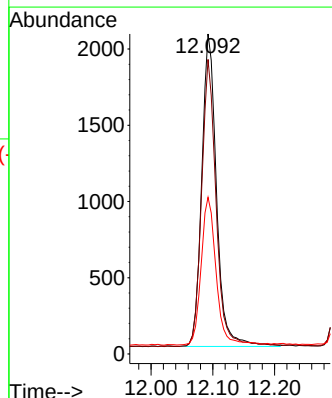
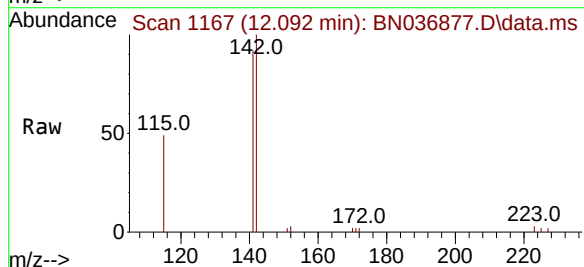
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

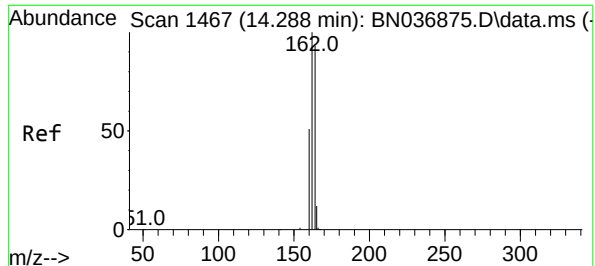
Tgt Ion:152 Resp: 2739
Ion Ratio Lower Upper
152 100
151 21.0 17.8 26.8



#12
2-Methylnaphthalene
Concen: 1.529 ng
RT: 12.092 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion:142 Resp: 3403
Ion Ratio Lower Upper
142 100
141 92.0 73.8 110.8
115 48.9 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

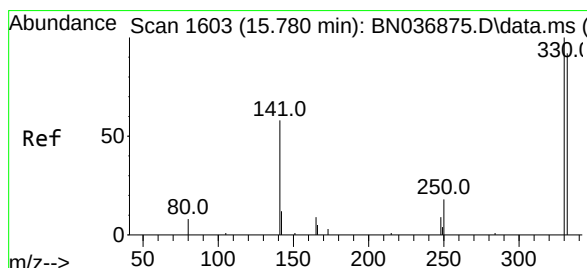
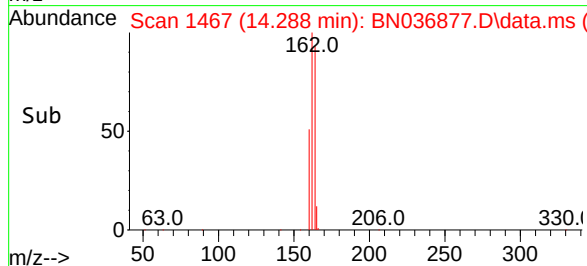
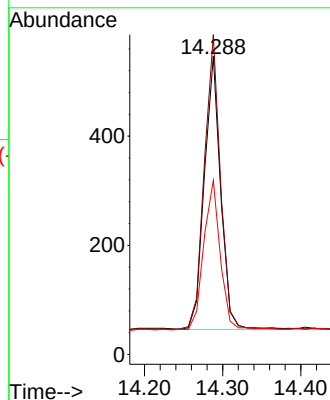
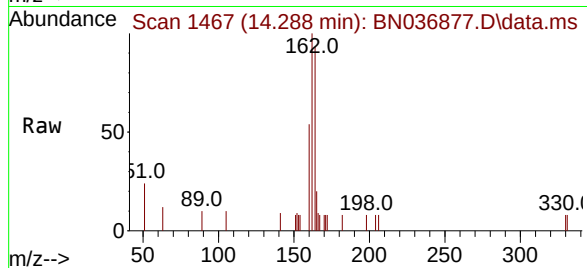
Tgt Ion:164 Resp: 725

Ion Ratio Lower Upper

164 100

162 107.1 85.7 128.5

160 58.3 46.9 70.3



#14

2,4,6-Tribromophenol

Concen: 1.531 ng

RT: 15.780 min Scan# 1603

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

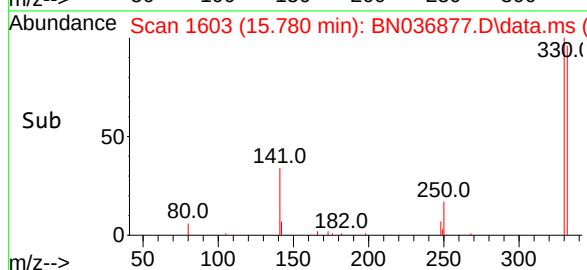
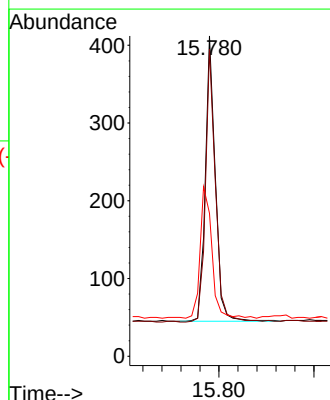
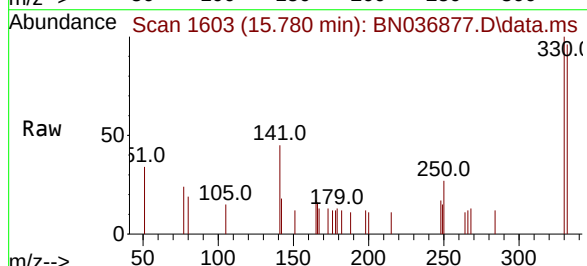
Tgt Ion:330 Resp: 536

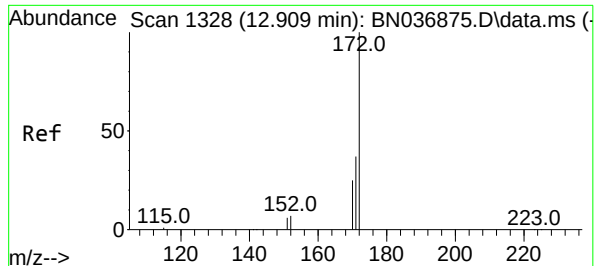
Ion Ratio Lower Upper

330 100

332 96.6 87.0 130.6

141 54.3 45.3 67.9





#15

2-Fluorobiphenyl

Concen: 1.568 ng

RT: 12.909 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

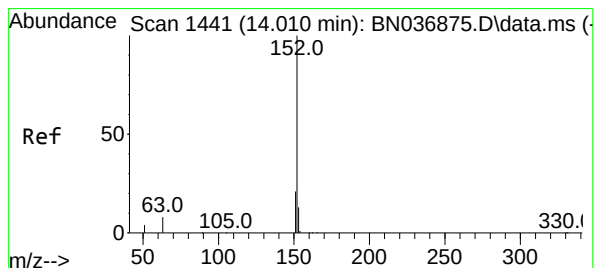
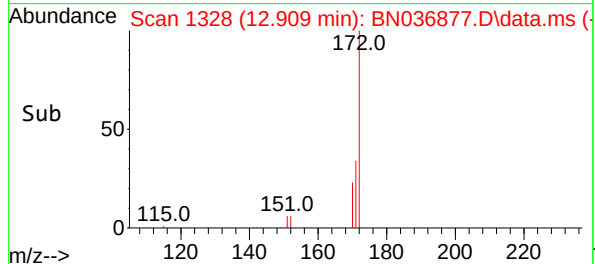
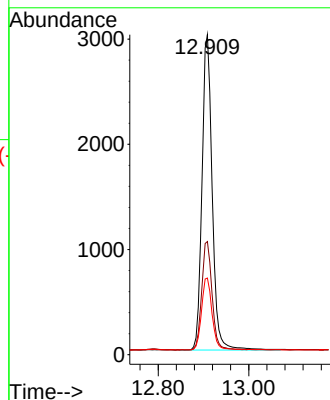
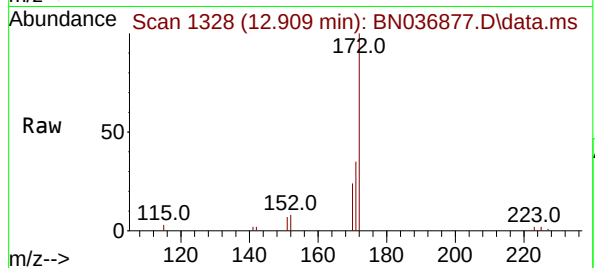
Tgt Ion:172 Resp: 5500

Ion Ratio Lower Upper

172 100

171 35.3 32.7 49.1

170 24.0 23.3 34.9



#16

Acenaphthylene

Concen: 1.507 ng

RT: 13.999 min Scan# 1440

Delta R.T. -0.011 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

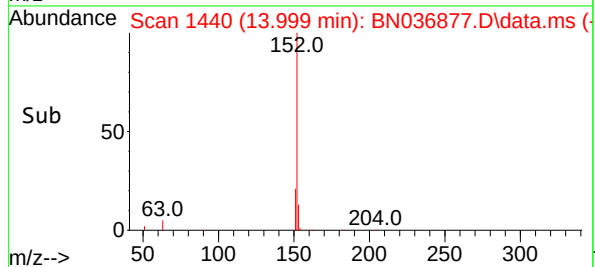
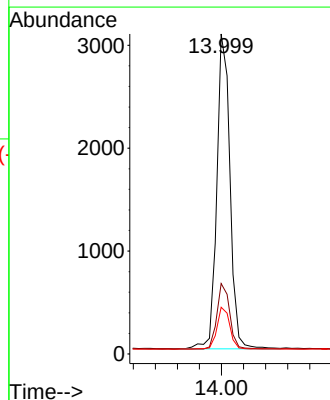
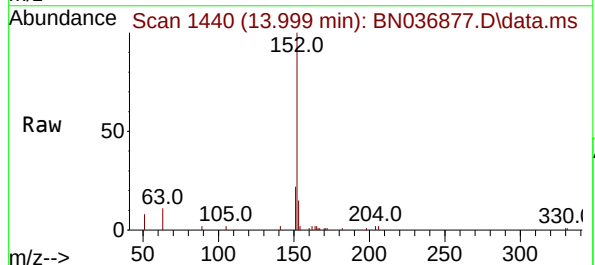
Tgt Ion:152 Resp: 5075

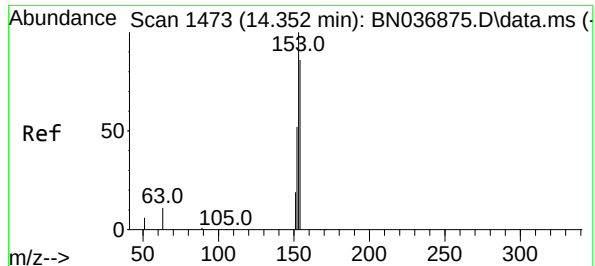
Ion Ratio Lower Upper

152 100

151 20.2 16.4 24.6

153 13.0 10.3 15.5

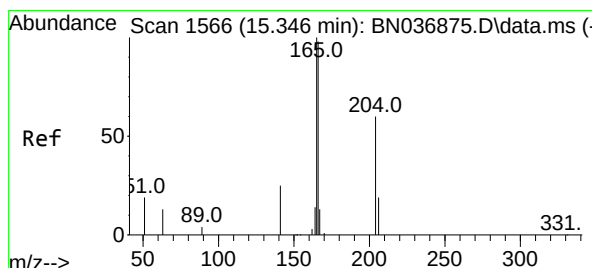
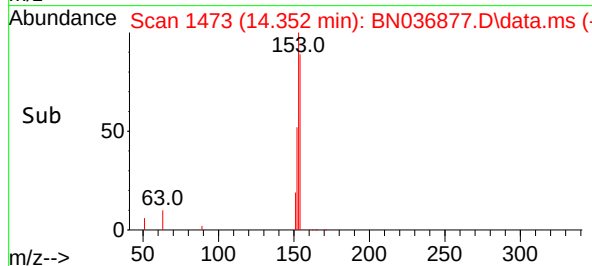
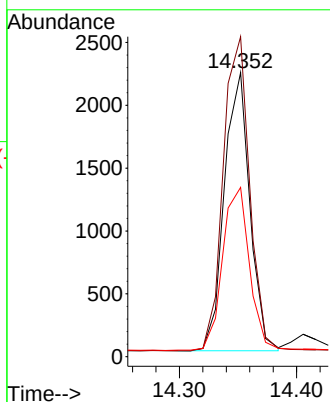
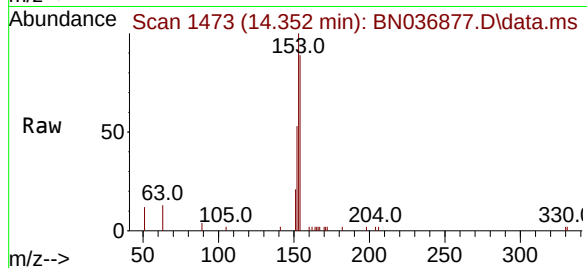




#17
Acenaphthene
Concen: 1.522 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

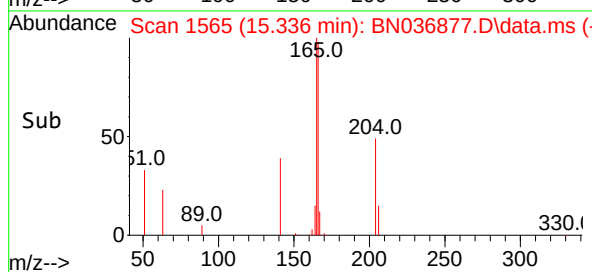
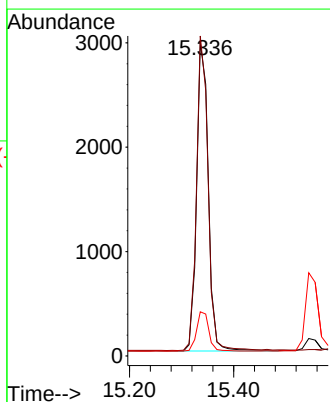
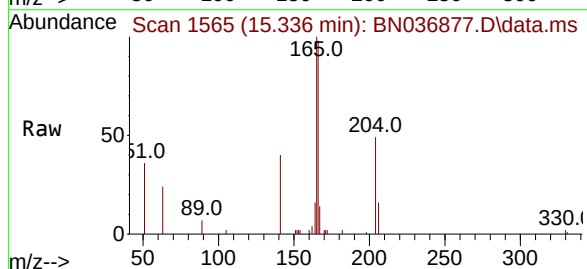
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

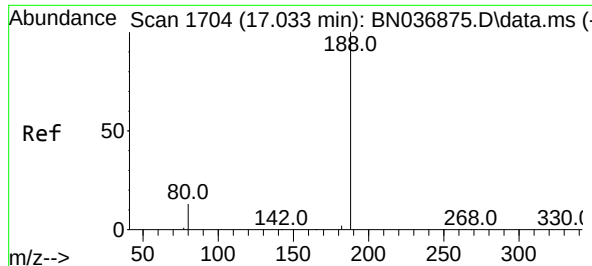
Tgt Ion:154 Resp: 3340
Ion Ratio Lower Upper
154 100
153 117.6 97.8 146.6
152 63.2 52.7 79.1



#18
Fluorene
Concen: 1.526 ng
RT: 15.336 min Scan# 1565
Delta R.T. -0.011 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion:166 Resp: 4621
Ion Ratio Lower Upper
166 100
165 100.3 83.2 124.8
167 13.5 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.034 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

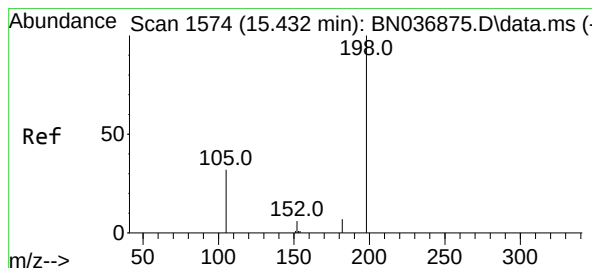
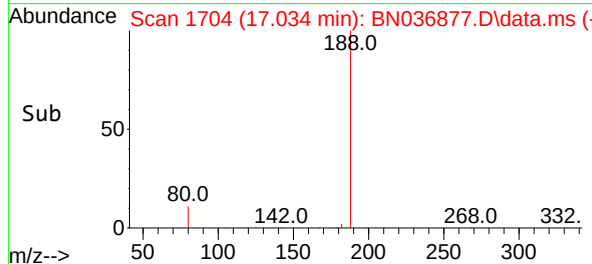
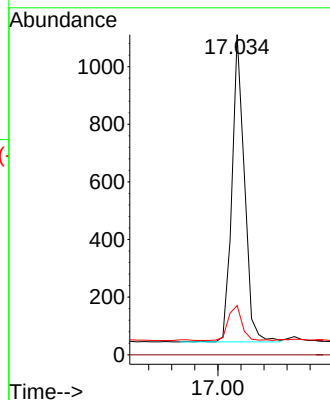
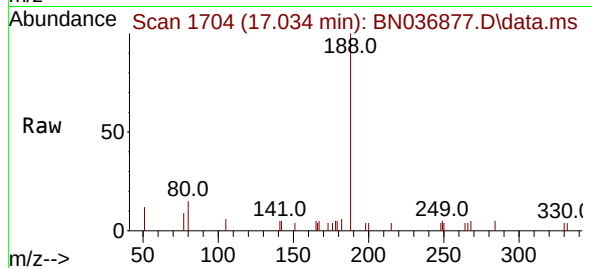
Tgt Ion:188 Resp: 1602

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.4 13.9 20.9



#20

4,6-Dinitro-2-methylphenol

Concen: 1.573 ng

RT: 15.421 min Scan# 1573

Delta R.T. -0.011 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

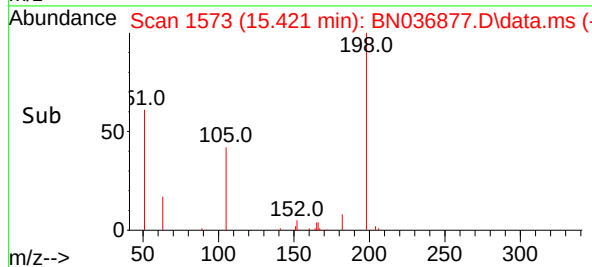
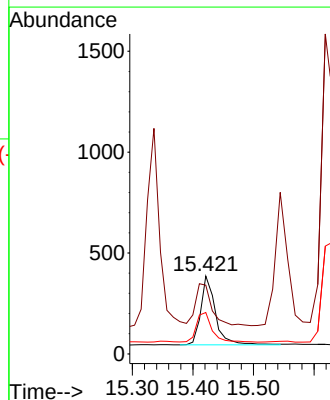
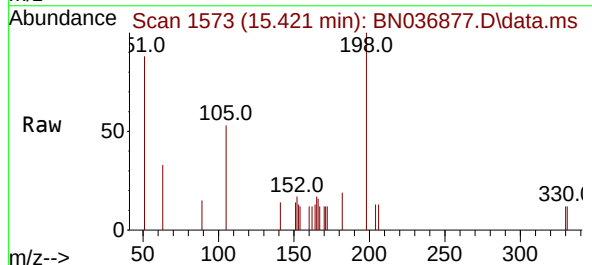
Tgt Ion:198 Resp: 589

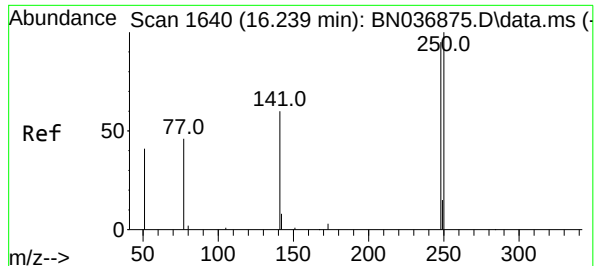
Ion Ratio Lower Upper

198 100

51 88.3 107.6 161.4#

105 53.1 55.2 82.8#

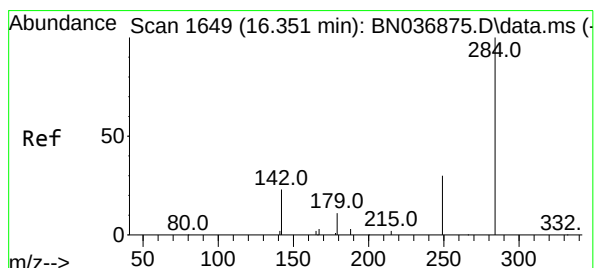
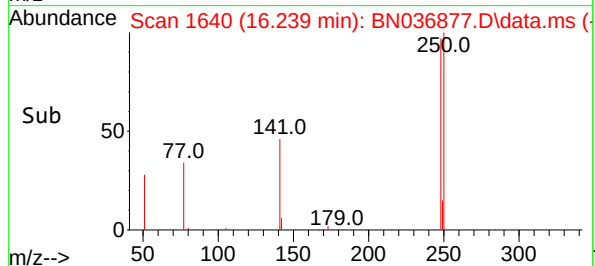
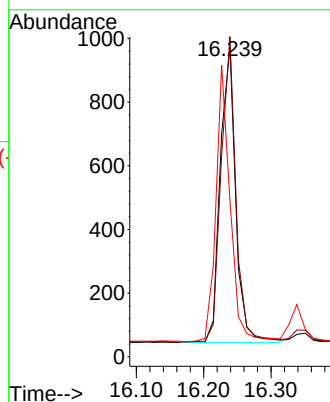
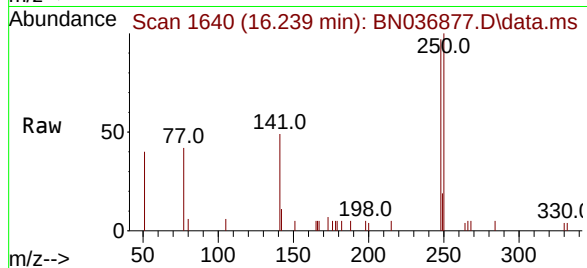




#21
4-Bromophenyl-phenylether
Concen: 1.529 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

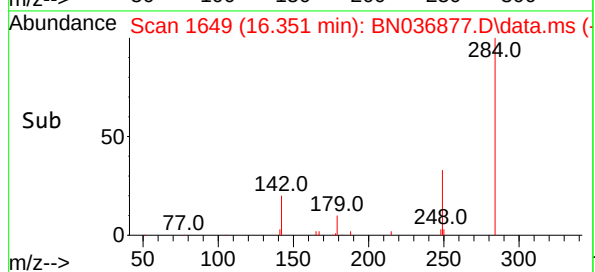
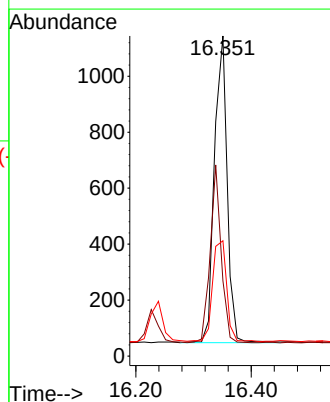
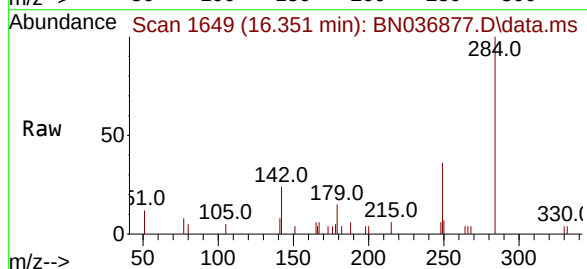
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

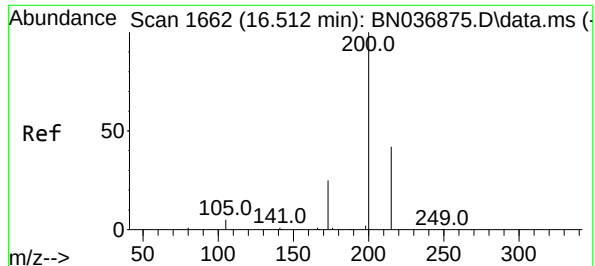
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.4	83.5	125.3
141	50.5	55.3	82.9



#22
Hexachlorobenzene
Concen: 1.456 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.1	37.7	56.5
249	36.3	29.0	43.6

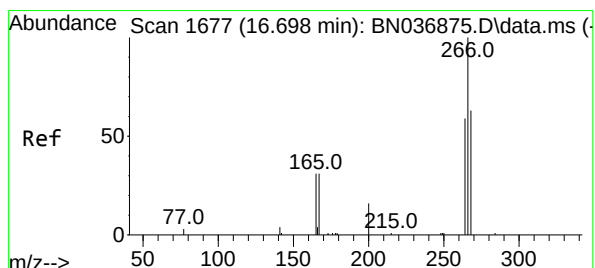
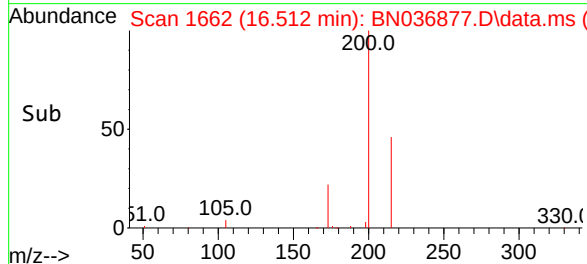
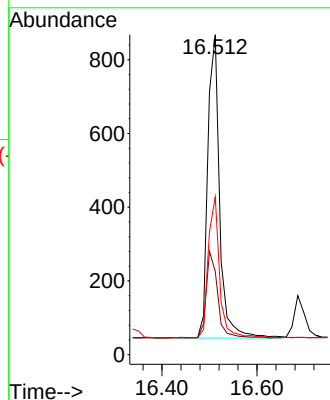
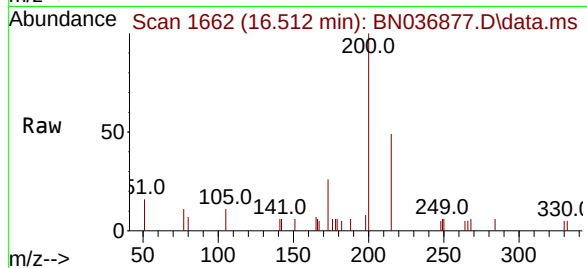




#23
Atrazine
Concen: 1.508 ng
RT: 16.512 min Scan# 1662
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

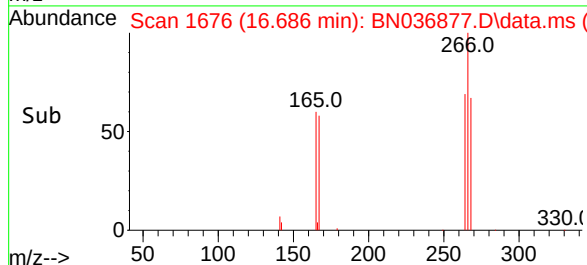
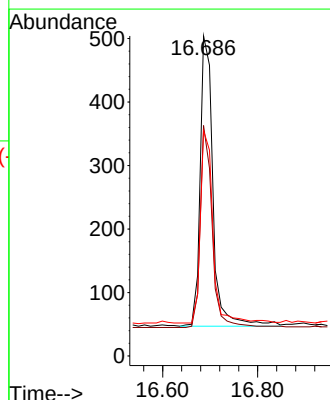
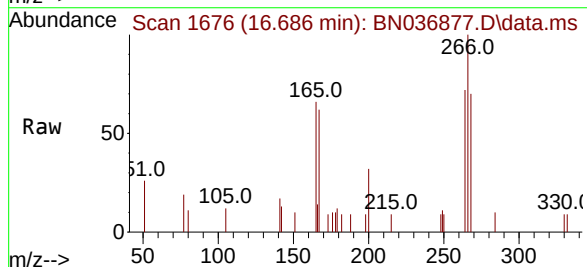
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

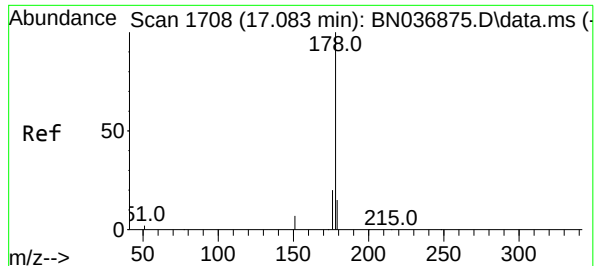
Tgt Ion:200 Resp: 1431
Ion Ratio Lower Upper
200 100
173 26.0 28.6 43.0#
215 49.3 40.5 60.7



#24
Pentachlorophenol
Concen: 1.440 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion:266 Resp: 857
Ion Ratio Lower Upper
266 100
264 63.9 44.6 66.8
268 64.8 51.8 77.6

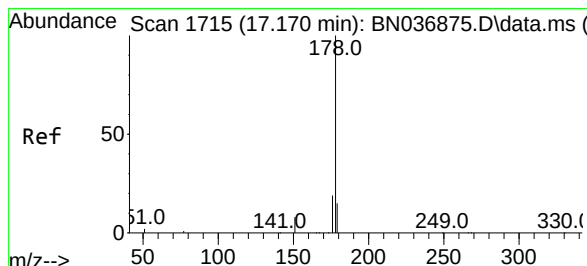
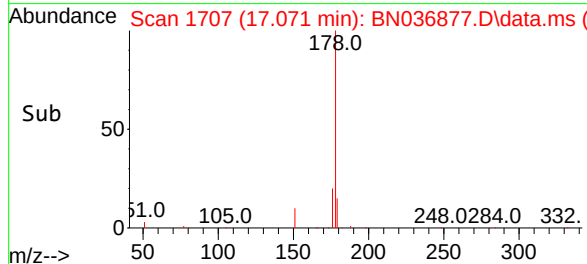
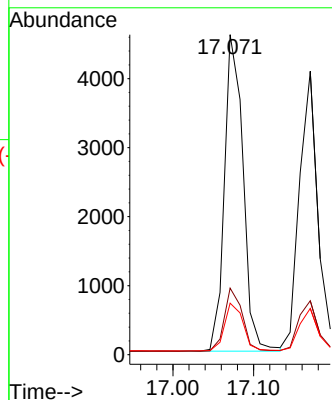
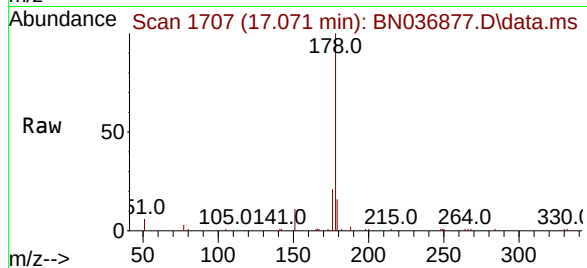




#25
Phenanthrene
Concen: 1.530 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

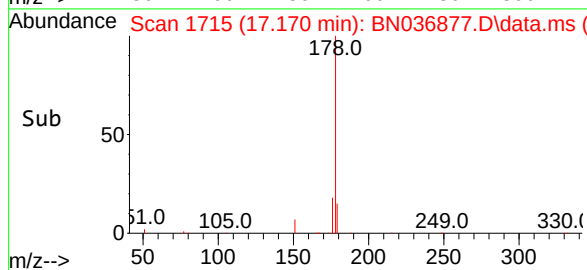
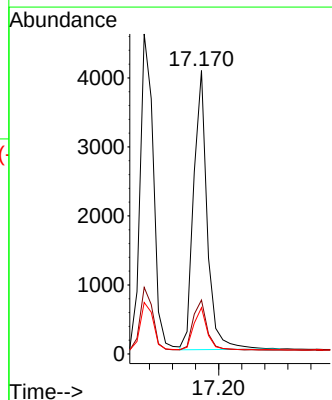
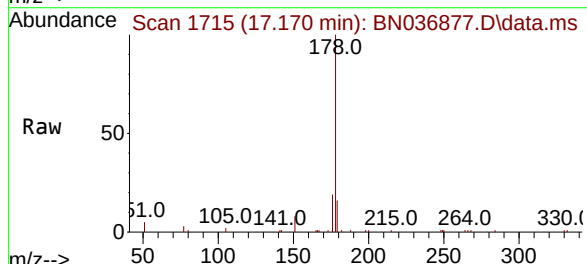
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

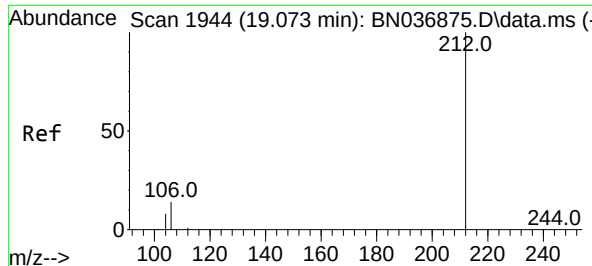
Tgt Ion:178 Resp: 7364
Ion Ratio Lower Upper
178 100
176 19.1 16.6 25.0
179 15.1 12.8 19.2



#26
Anthracene
Concen: 1.555 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion:178 Resp: 6636
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.6
179 15.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 1.554 ng

RT: 19.073 min Scan# 1944

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

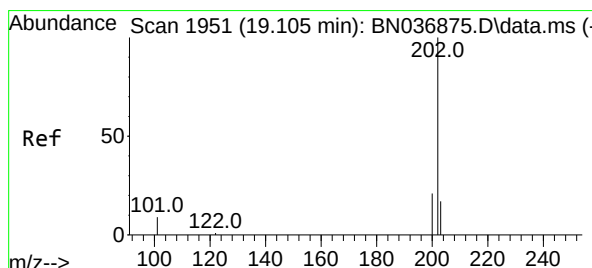
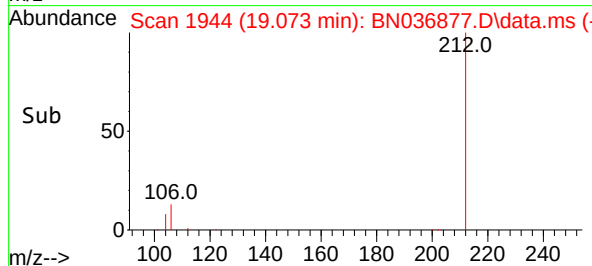
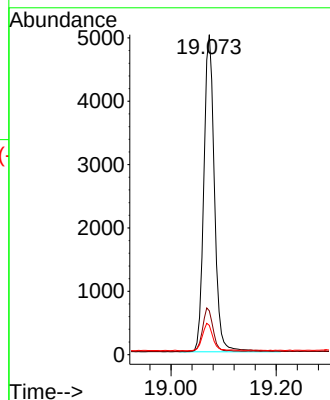
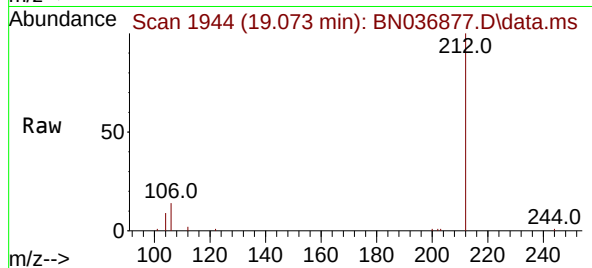
Tgt Ion:212 Resp: 6992

Ion Ratio Lower Upper

212 100

106 13.5 11.2 16.8

104 8.6 7.5 11.3



#28

Fluoranthene

Concen: 1.562 ng

RT: 19.105 min Scan# 1951

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

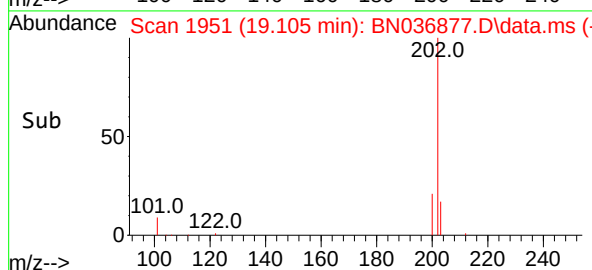
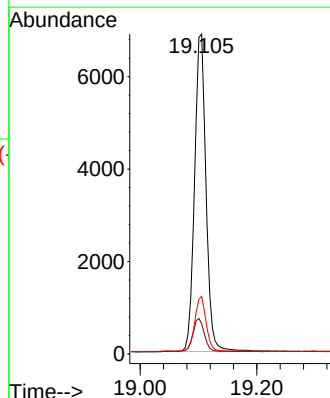
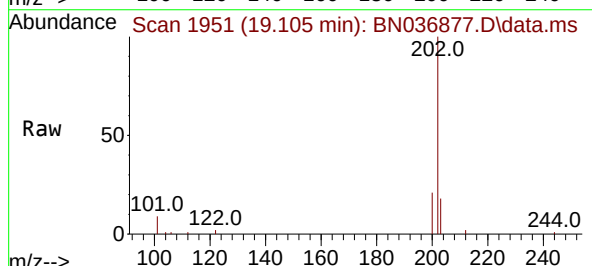
Tgt Ion:202 Resp: 9374

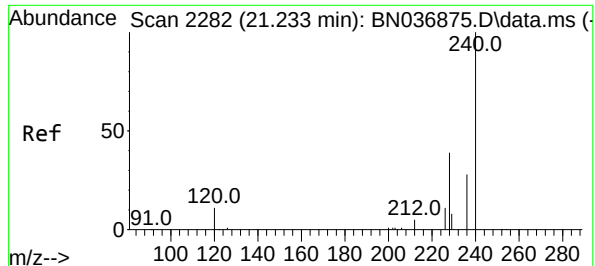
Ion Ratio Lower Upper

202 100

101 10.5 8.5 12.7

203 16.7 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

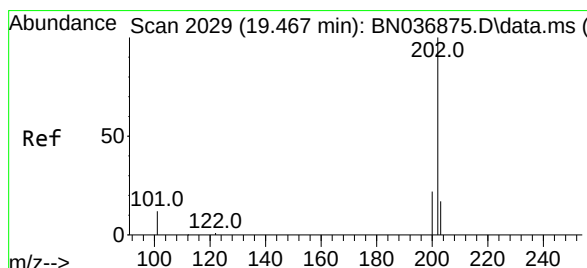
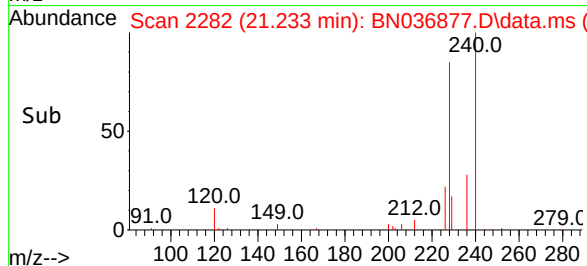
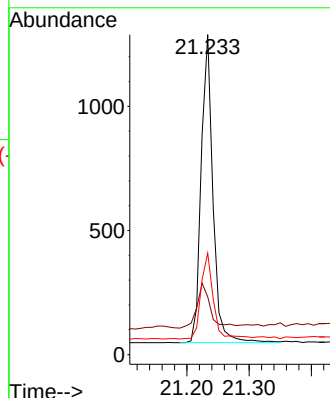
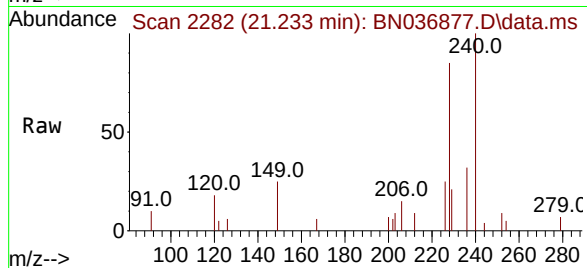
Tgt Ion:240 Resp: 1632

Ion Ratio Lower Upper

240 100

120 18.1 15.8 23.6

236 31.7 25.8 38.8



#30

Pyrene

Concen: 1.545 ng

RT: 19.468 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

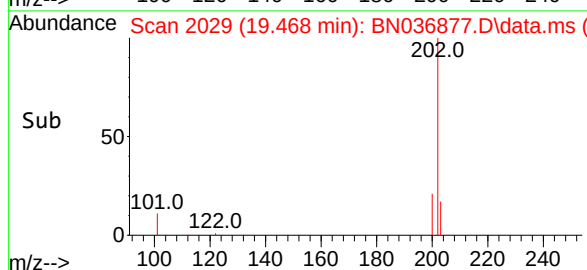
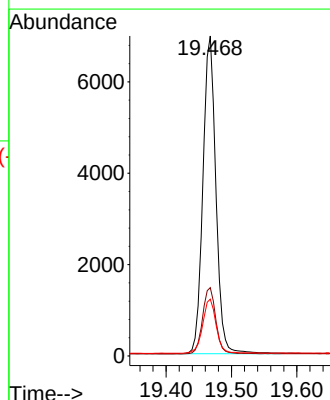
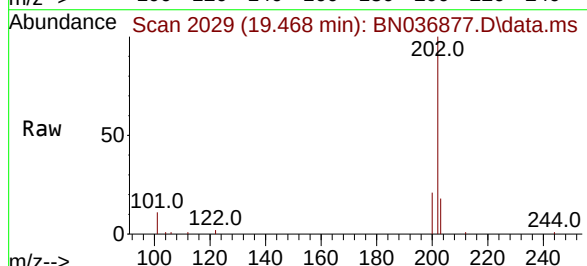
Tgt Ion:202 Resp: 9592

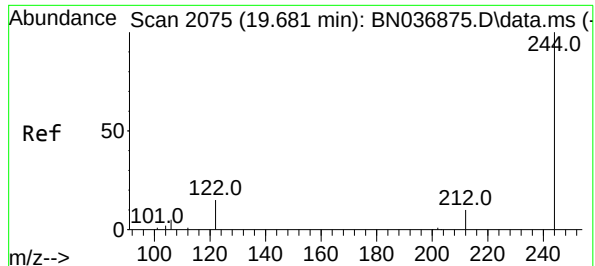
Ion Ratio Lower Upper

202 100

200 21.2 17.1 25.7

203 17.6 14.5 21.7

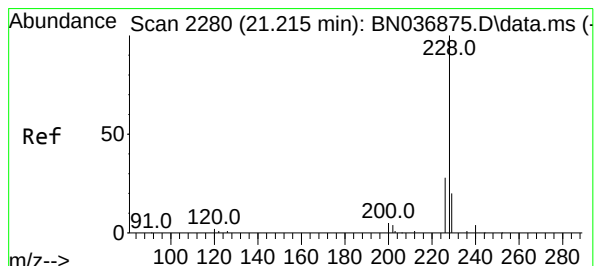
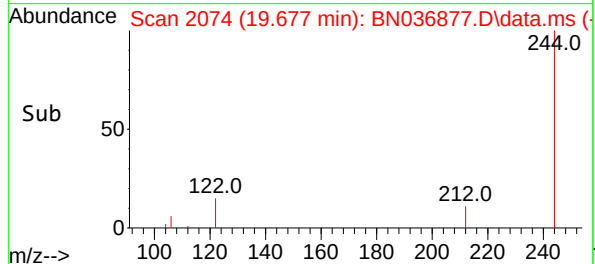
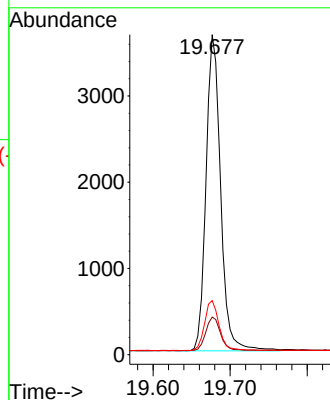
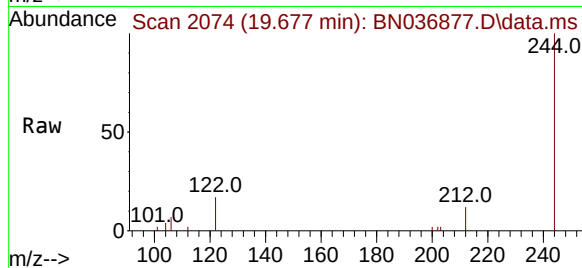




#31
Terphenyl-d14
Concen: 1.545 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

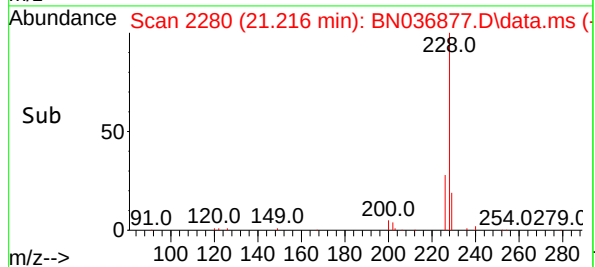
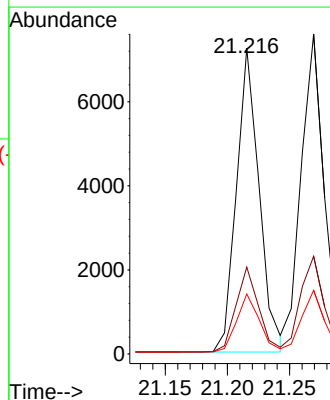
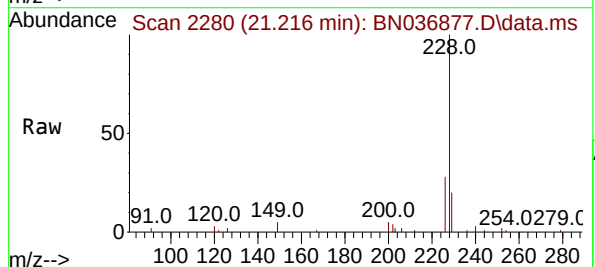
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

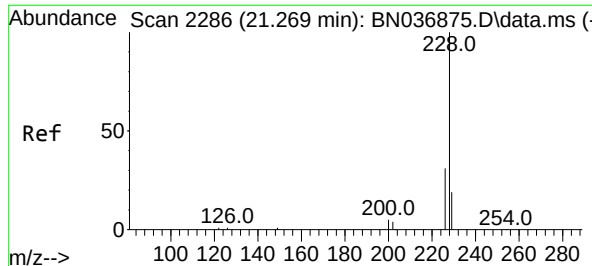
Tgt Ion:244 Resp: 4823
Ion Ratio Lower Upper
244 100
212 11.8 11.6 17.4
122 16.9 14.9 22.3



#32
Benzo(a)anthracene
Concen: 1.593 ng
RT: 21.216 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036877.D
Acq: 11 Apr 2025 14:30

Tgt Ion:228 Resp: 9153
Ion Ratio Lower Upper
228 100
226 28.4 24.5 36.7
229 19.6 17.7 26.5





#33

Chrysene

Concen: 1.588 ng

RT: 21.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

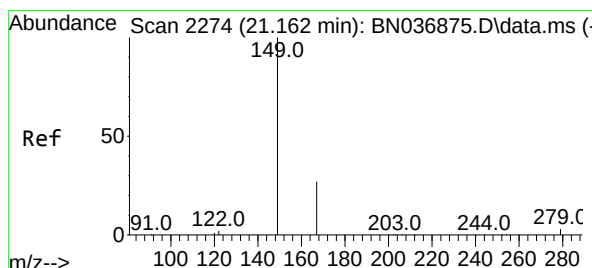
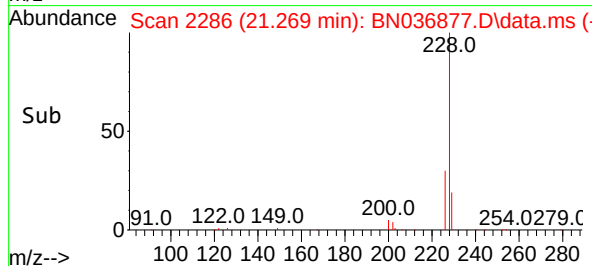
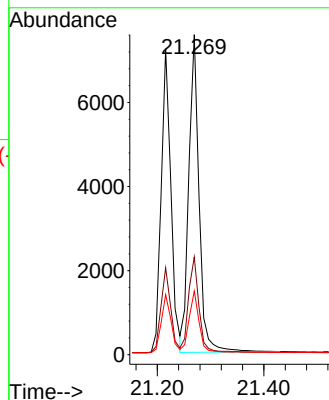
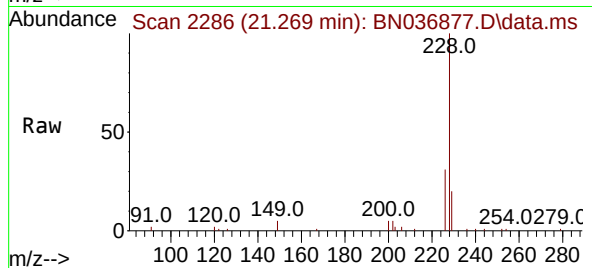
Tgt Ion:228 Resp: 10135

Ion Ratio Lower Upper

228 100

226 30.6 26.1 39.1

229 19.9 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.486 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

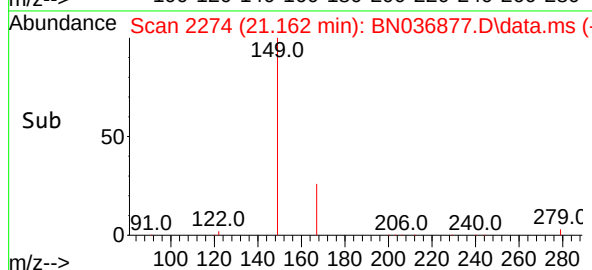
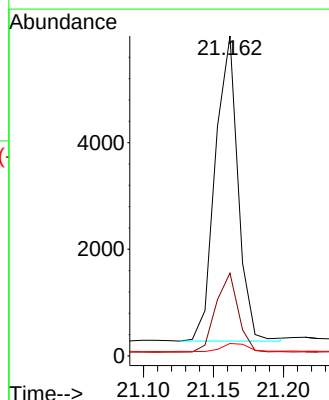
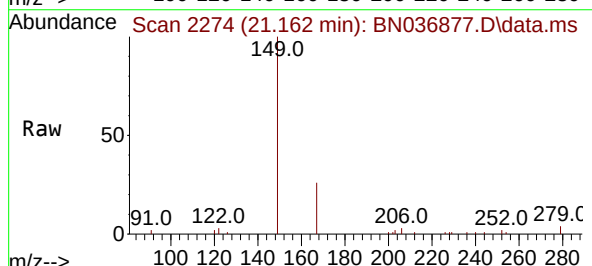
Tgt Ion:149 Resp: 6463

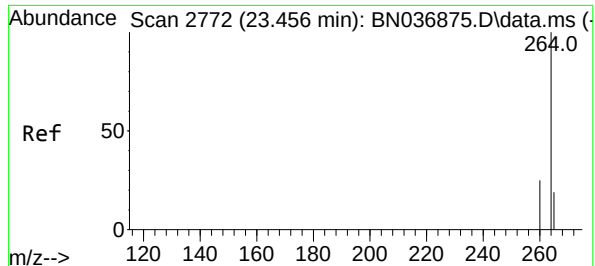
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.4

279 3.3 3.6 5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.453 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

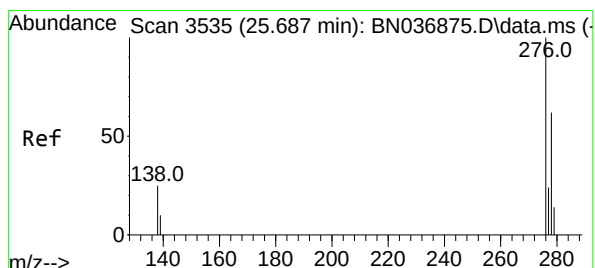
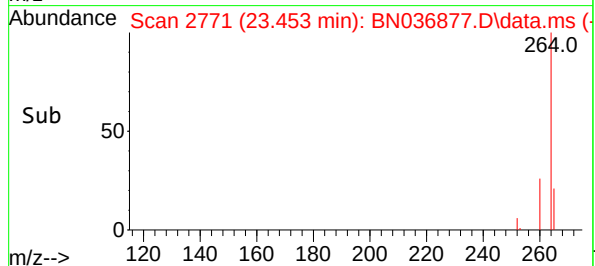
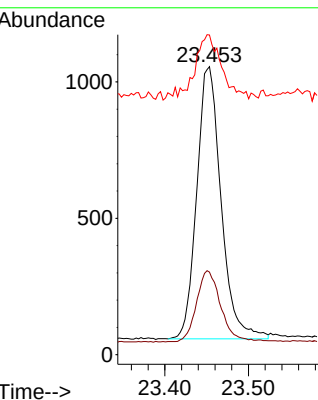
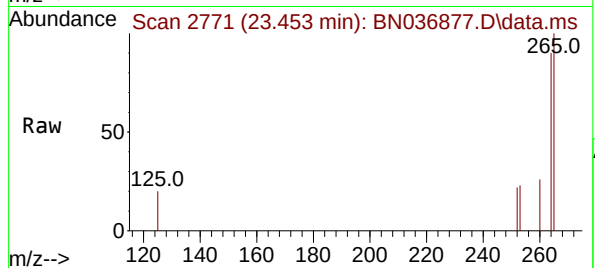
Tgt Ion:264 Resp: 2020

Ion Ratio Lower Upper

264 100

260 28.7 22.9 34.3

265 111.0 88.6 132.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.615 ng

RT: 25.681 min Scan# 3533

Delta R.T. -0.006 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

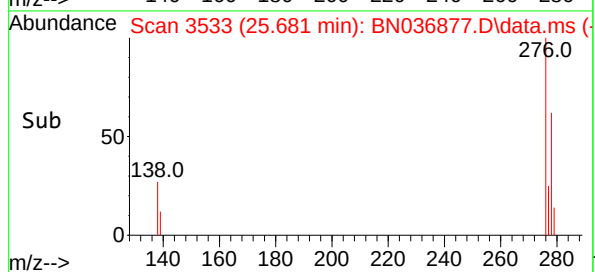
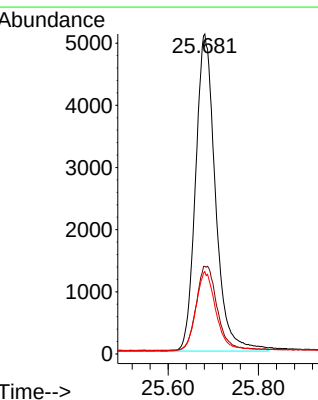
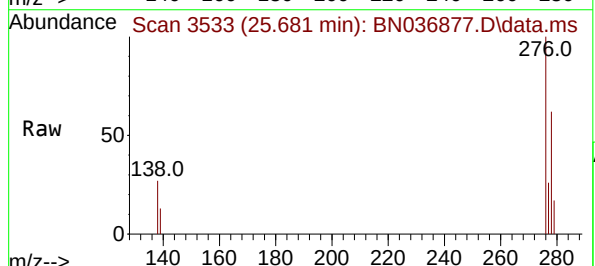
Tgt Ion:276 Resp: 15556

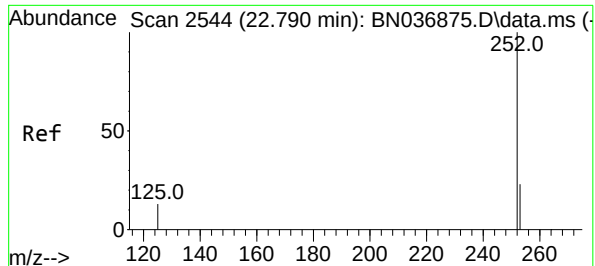
Ion Ratio Lower Upper

276 100

138 28.1 21.0 31.6

277 25.0 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 1.559 ng

RT: 22.787 min Scan# 2543

Delta R.T. -0.003 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

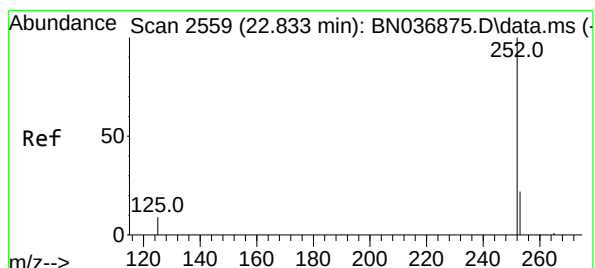
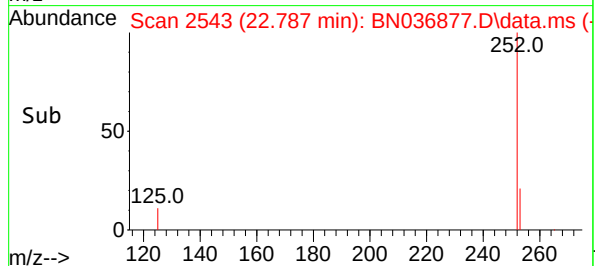
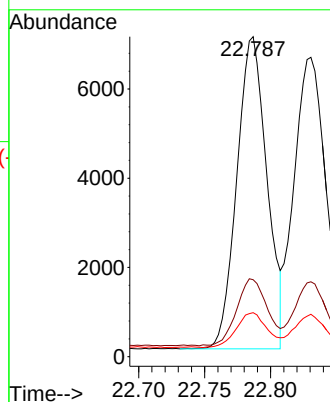
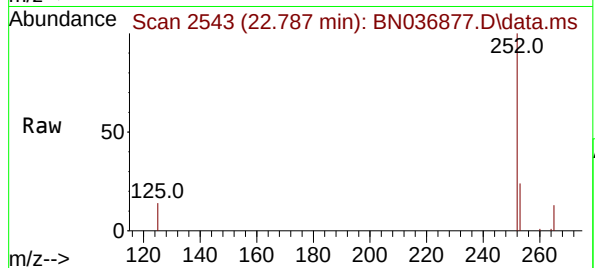
Tgt Ion:252 Resp: 11121

Ion Ratio Lower Upper

252 100

253 24.1 27.0 40.6#

125 13.8 17.7 26.5#



#38

Benzo(k)fluoranthene

Concen: 1.558 ng

RT: 22.831 min Scan# 2558

Delta R.T. -0.003 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

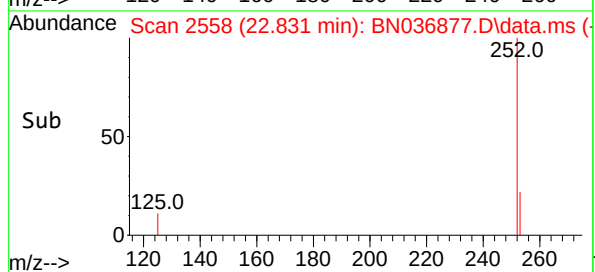
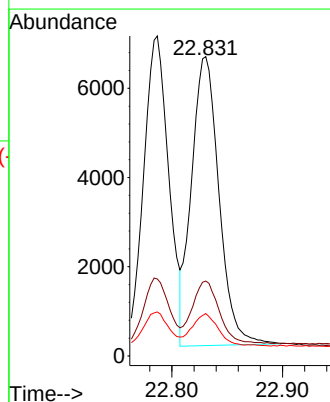
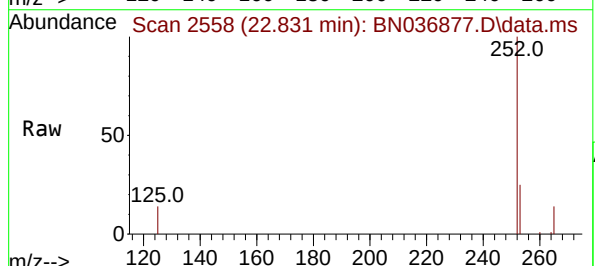
Tgt Ion:252 Resp: 11185

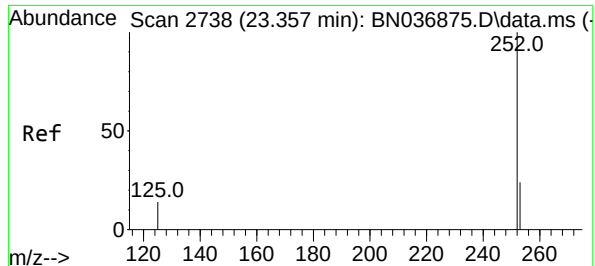
Ion Ratio Lower Upper

252 100

253 25.0 26.7 40.1#

125 14.2 16.9 25.3#





#39

Benzo(a)pyrene

Concen: 1.585 ng

RT: 23.357 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

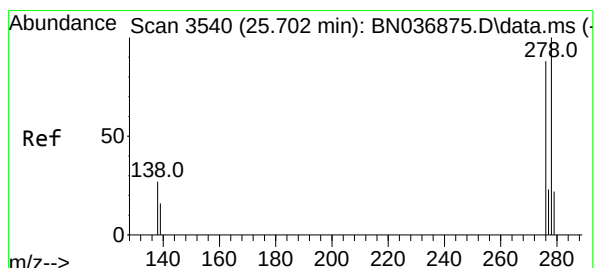
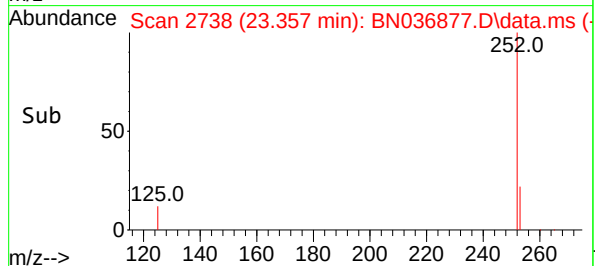
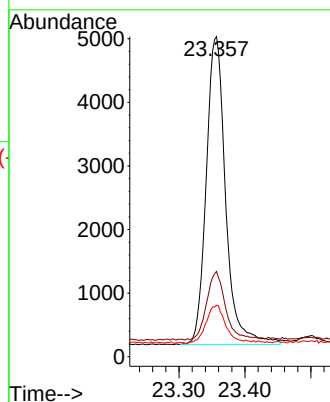
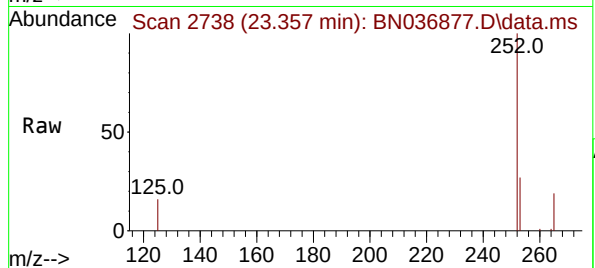
Tgt Ion:252 Resp: 9906

Ion Ratio Lower Upper

252 100

253 26.7 31.5 47.3#

125 16.0 22.6 34.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.653 ng

RT: 25.693 min Scan# 3537

Delta R.T. -0.009 min

Lab File: BN036877.D

Acq: 11 Apr 2025 14:30

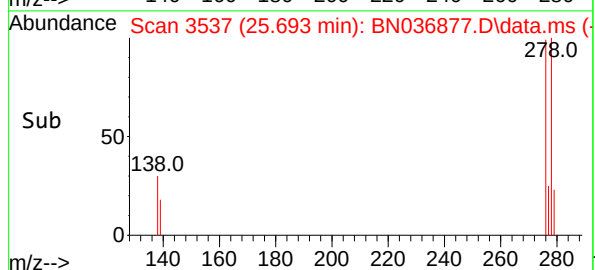
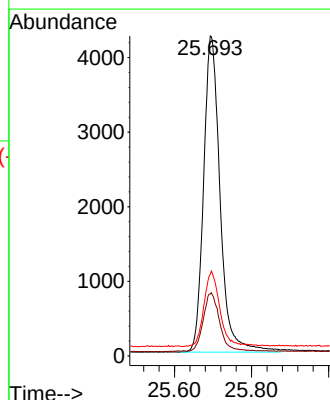
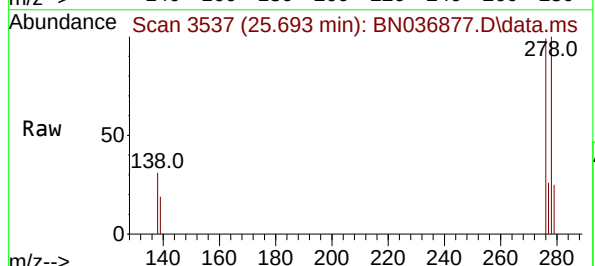
Tgt Ion:278 Resp: 12606

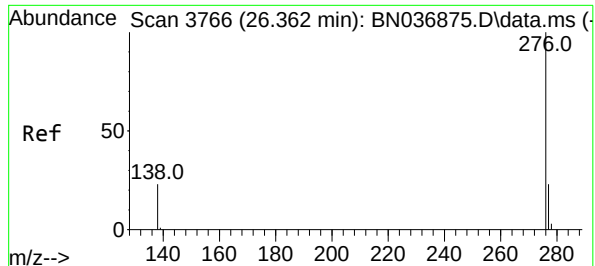
Ion Ratio Lower Upper

278 100

139 19.3 17.6 26.4

279 25.5 26.7 40.1#





#41

Benzo(g,h,i)perylene

Concen: 1.604 ng

RT: 26.362 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036877.D

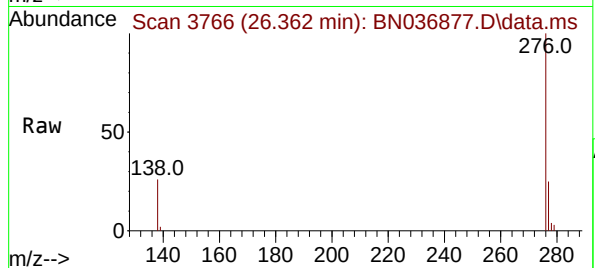
Acq: 11 Apr 2025 14:30

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



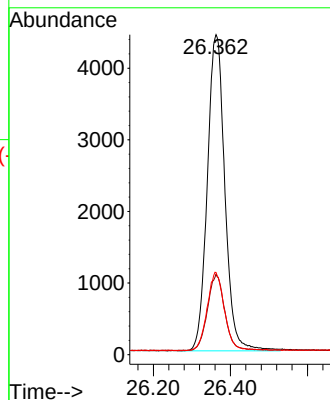
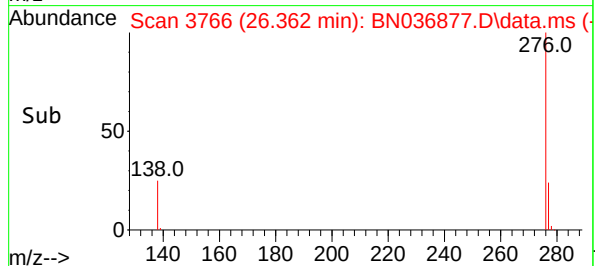
Tgt Ion:276 Resp: 13927

Ion Ratio Lower Upper

276 100

277 25.1 21.8 32.8

138 25.7 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036878.D
 Acq On : 11 Apr 2025 15:06
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Apr 11 15:36:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:32:59 2025
 Response via : Initial Calibration

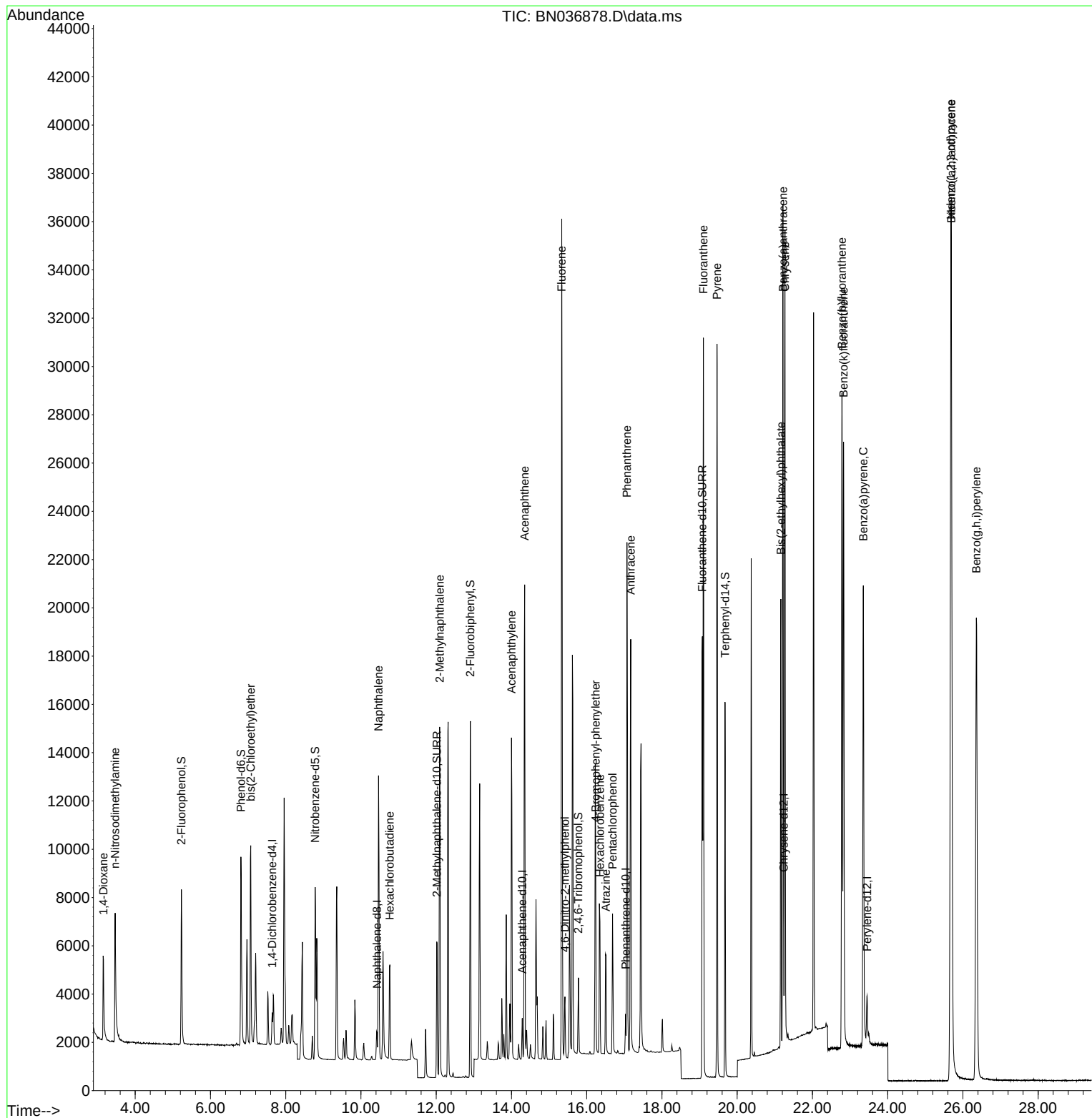
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	606	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	1555	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	909	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	1989	0.400	ng	# 0.00
29) Chrysene-d12	21.233	240	2148	0.400	ng	# 0.00
35) Perylene-d12	23.450	264	2540	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	4754	3.304	ng	0.00
5) Phenol-d6	6.809	99	6125	3.343	ng	0.00
8) Nitrobenzene-d5	8.781	82	5458	3.123	ng	-0.01
11) 2-Methylnaphthalene-d10	12.016	152	7659	3.377	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	1472	3.352	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	15146	3.443	ng	0.00
27) Fluoranthene-d10	19.073	212	19501	3.491	ng	0.00
31) Terphenyl-d14	19.676	244	13773	3.353	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	2284	3.186	ng	94
3) n-Nitrosodimethylamine	3.465	42	5130	3.250	ng	# 97
6) bis(2-Chloroethyl)ether	7.069	93	5771	3.187	ng	93
9) Naphthalene	10.468	128	14629	3.237	ng	# 89
10) Hexachlorobutadiene	10.767	225	3248	3.148	ng	# 100
12) 2-Methylnaphthalene	12.092	142	9748	3.372	ng	96
16) Acenaphthylene	13.999	152	14508	3.436	ng	99
17) Acenaphthene	14.352	154	9568	3.477	ng	94
18) Fluorene	15.336	166	12941	3.408	ng	96
20) 4,6-Dinitro-2-methylph...	15.421	198	1852	3.983	ng	# 44
21) 4-Bromophenyl-phenylether	16.239	248	4104	3.424	ng	# 86
22) Hexachlorobenzene	16.351	284	4579	3.209	ng	96
23) Atrazine	16.512	200	3900	3.310	ng	# 86
24) Pentachlorophenol	16.686	266	2539	3.437	ng	95
25) Phenanthrene	17.071	178	20685	3.461	ng	98
26) Anthracene	17.170	178	18814	3.552	ng	98
28) Fluoranthene	19.100	202	26690	3.581	ng	100
30) Pyrene	19.463	202	27182	3.326	ng	99
32) Benzo(a)anthracene	21.215	228	26678	3.527	ng	95
33) Chrysene	21.269	228	28202	3.357	ng	96
34) Bis(2-ethylhexyl)phtha...	21.162	149	17563	3.069	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.678	276	42649	3.521	ng	96
37) Benzo(b)fluoranthene	22.784	252	31952	3.561	ng	# 80
38) Benzo(k)fluoranthene	22.828	252	31392	3.477	ng	# 81
39) Benzo(a)pyrene	23.354	252	28001	3.562	ng	# 73
40) Dibenzo(a,h)anthracene	25.693	278	34145	3.561	ng	# 89
41) Benzo(g,h,i)perylene	26.359	276	37283	3.415	ng	95

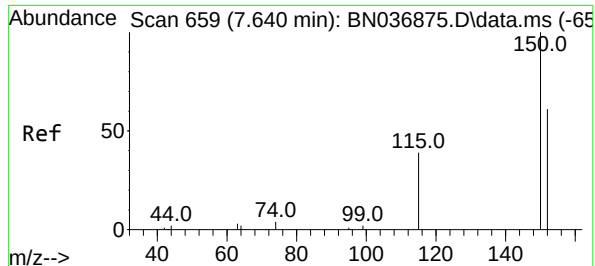
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036878.D
Acq On : 11 Apr 2025 15:06
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Apr 11 15:36:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

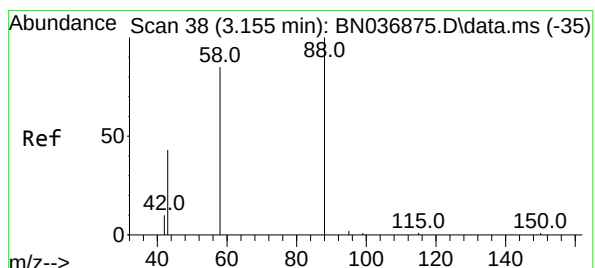
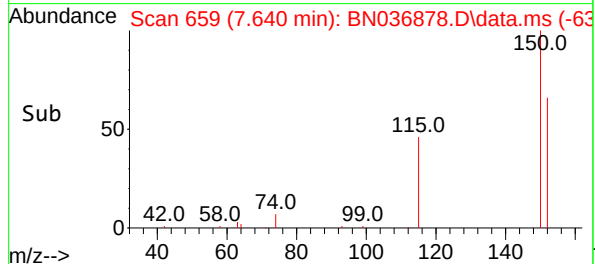
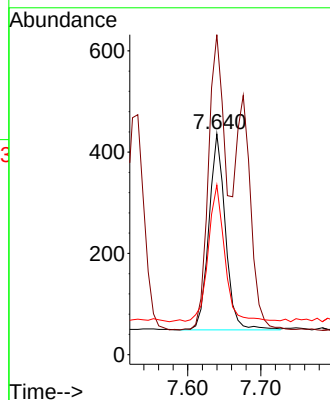
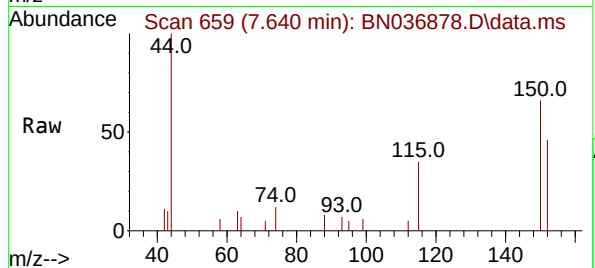




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

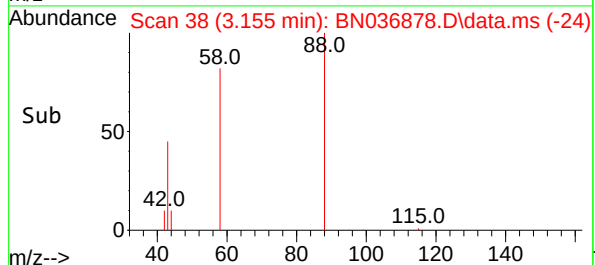
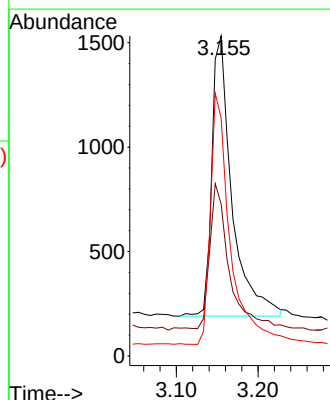
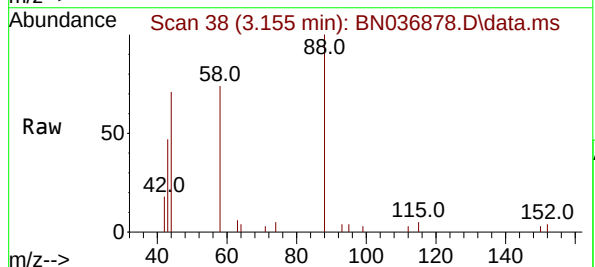
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

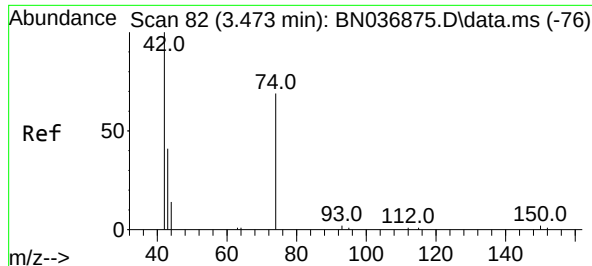
Tgt Ion:152 Resp: 606
Ion Ratio Lower Upper
152 100
150 145.0 123.0 184.6
115 76.8 60.1 90.1



#2
1,4-Dioxane
Concen: 3.186 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion: 88 Resp: 2284
Ion Ratio Lower Upper
88 100
43 49.3 39.2 58.8
58 88.2 63.5 95.3

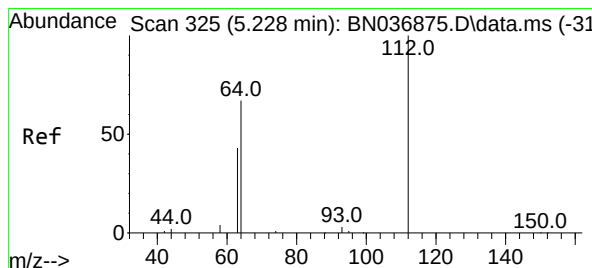
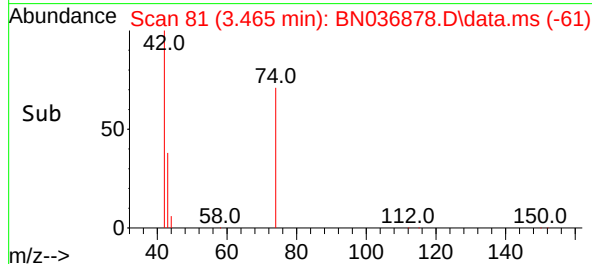
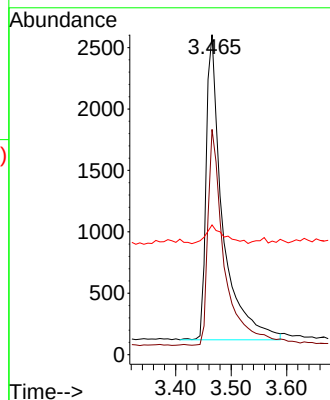
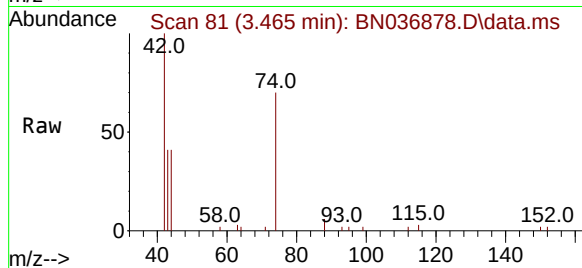




#3
n-Nitrosodimethylamine
Concen: 3.250 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

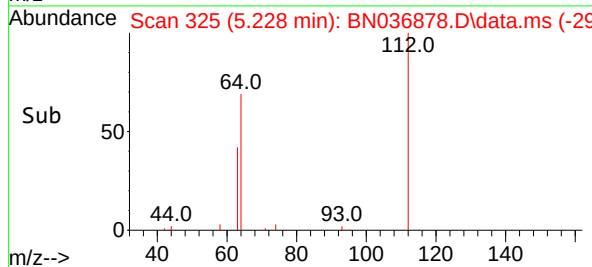
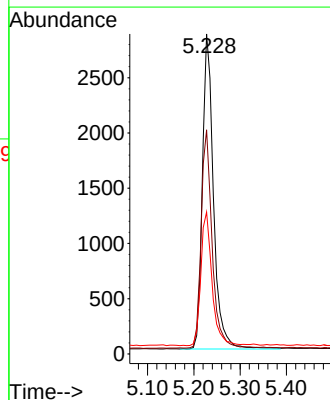
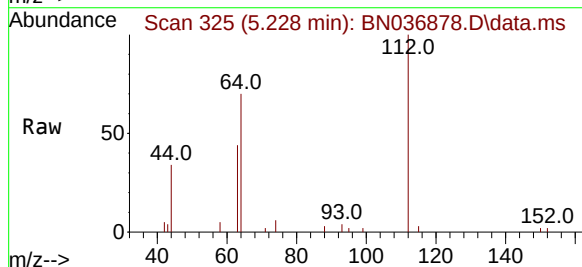
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

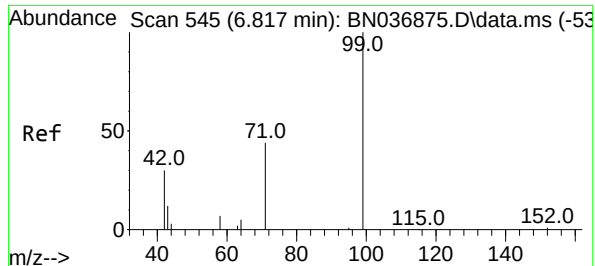
Tgt Ion: 42 Resp: 5130
Ion Ratio Lower Upper
42 100
74 70.5 54.6 81.8
44 6.6 0.0 0.0#



#4
2-Fluorophenol
Concen: 3.304 ng
RT: 5.228 min Scan# 325
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion: 112 Resp: 4754
Ion Ratio Lower Upper
112 100
64 68.6 54.0 81.0
63 42.9 35.1 52.7

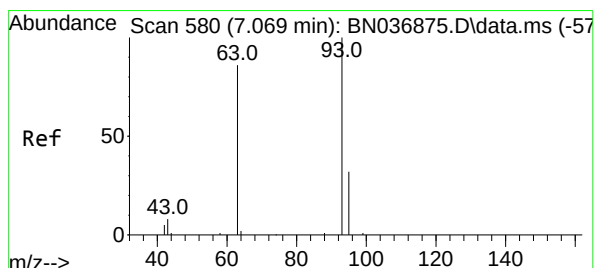
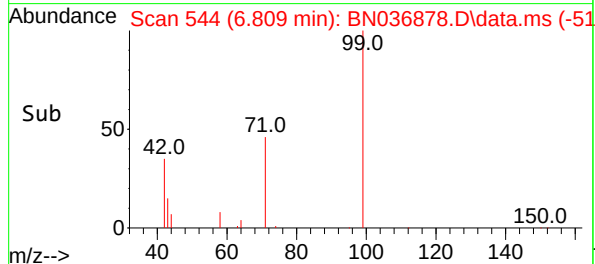
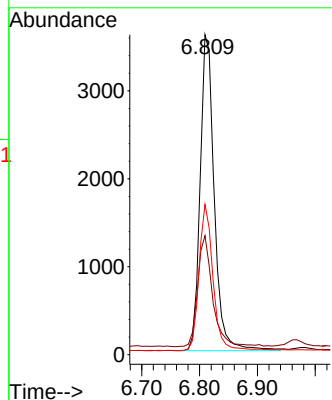
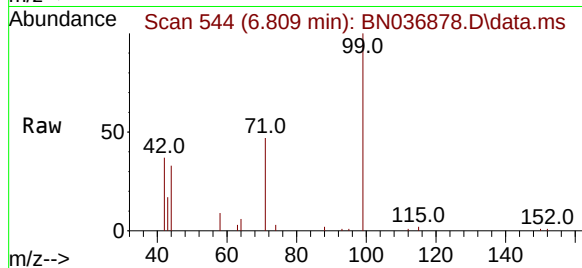




#5
Phenol-d6
Concen: 3.343 ng
RT: 6.809 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

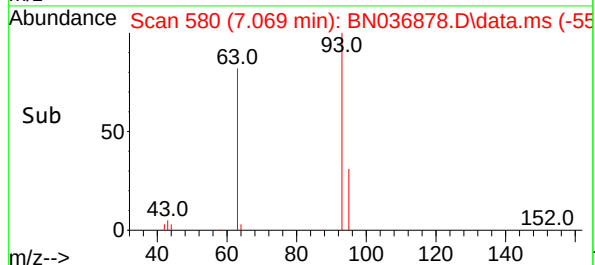
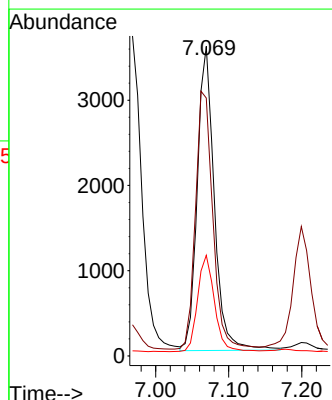
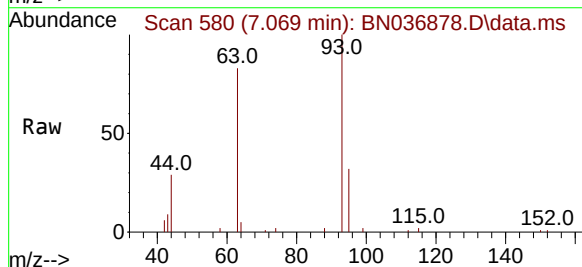
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

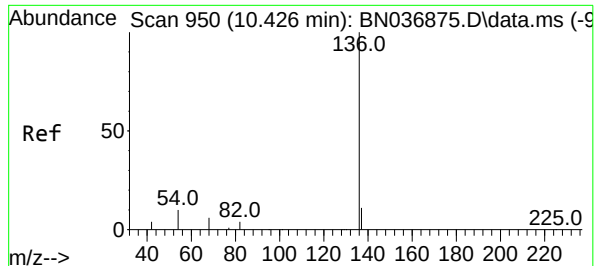
Tgt Ion: 99 Resp: 6125
Ion Ratio Lower Upper
99 100
42 37.2 30.9 46.3
71 46.0 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 3.187 ng
RT: 7.069 min Scan# 580
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion: 93 Resp: 5771
Ion Ratio Lower Upper
93 100
63 86.6 76.4 114.6
95 31.4 26.1 39.1

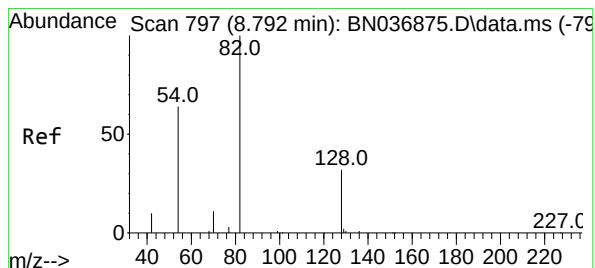
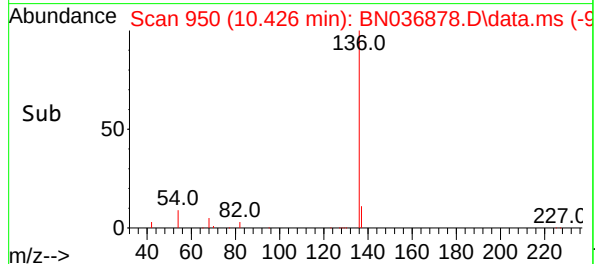
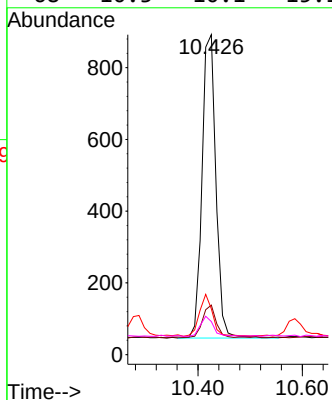
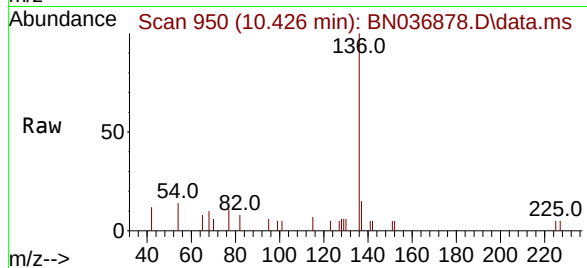




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

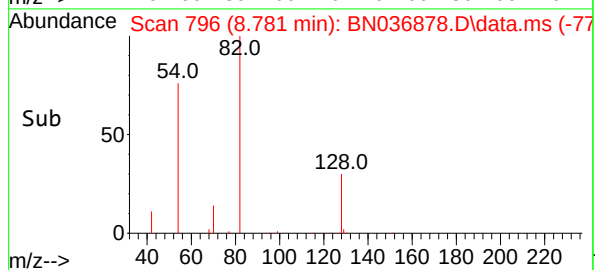
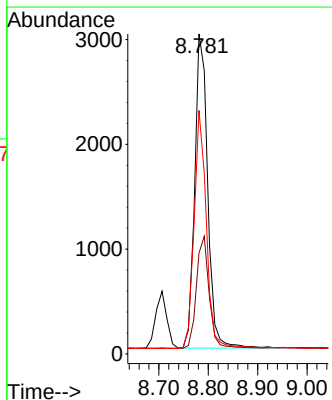
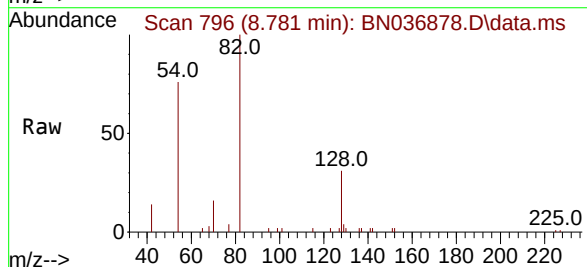
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

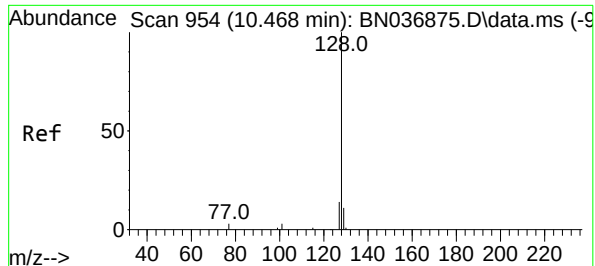
Tgt Ion:	136	Resp:	1555
Ion	Ratio	Lower	Upper
136	100		
137	15.5	13.5	20.3
54	14.3	12.8	19.2
68	10.3	10.1	15.1



#8
Nitrobenzene-d5
Concen: 3.123 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.011 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion:	82	Resp:	5458
Ion	Ratio	Lower	Upper
82	100		
128	31.5	35.5	53.3#
54	76.1	56.2	84.4





#9

Naphthalene

Concen: 3.237 ng

RT: 10.468 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

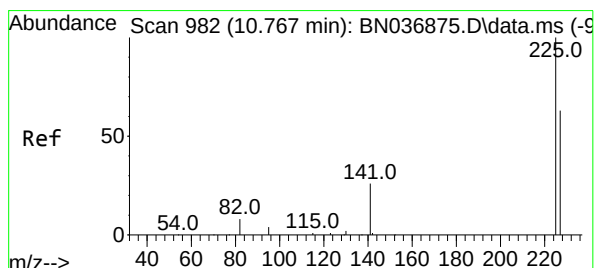
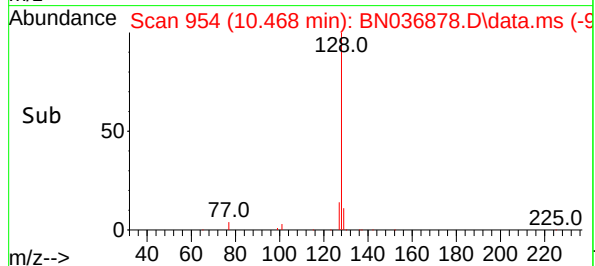
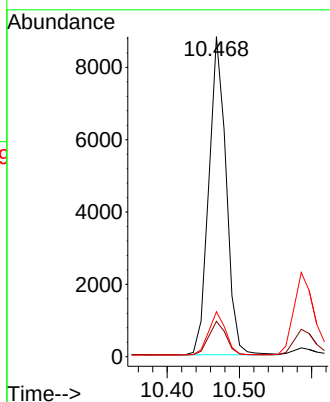
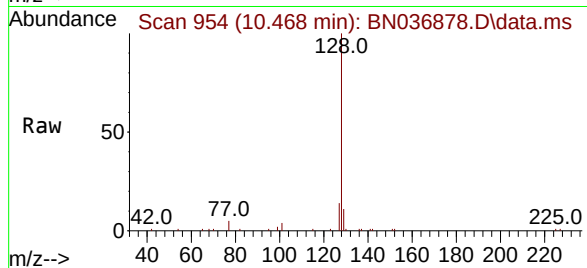
Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:	128	Resp:	14629
Ion	Ratio	Lower	Upper
128	100		
129	11.1	12.9	19.3#
127	14.1	15.0	22.6#



#10

Hexachlorobutadiene

Concen: 3.148 ng

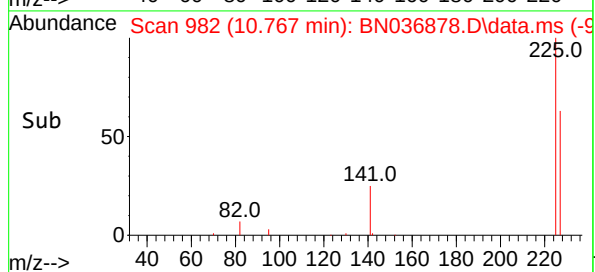
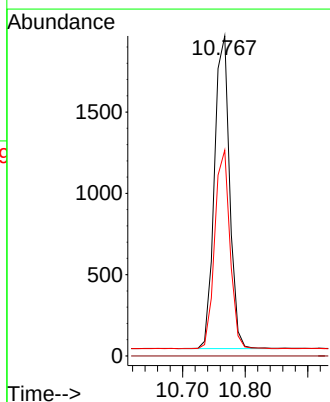
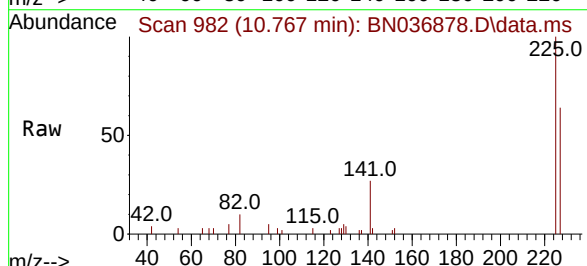
RT: 10.767 min Scan# 982

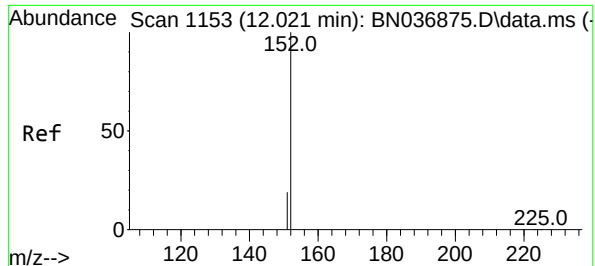
Delta R.T. -0.000 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

Tgt Ion:	225	Resp:	3248
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.5	75.7

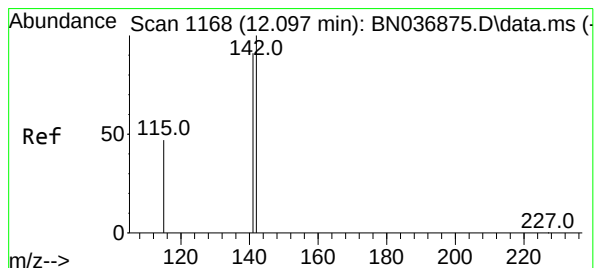
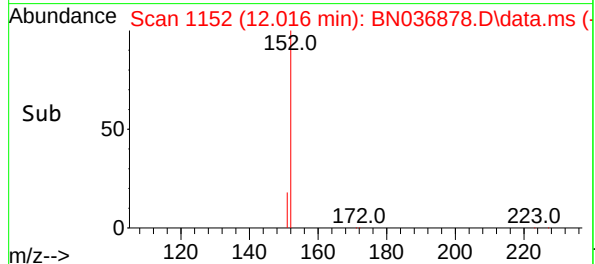
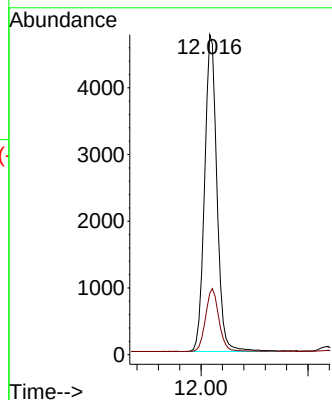
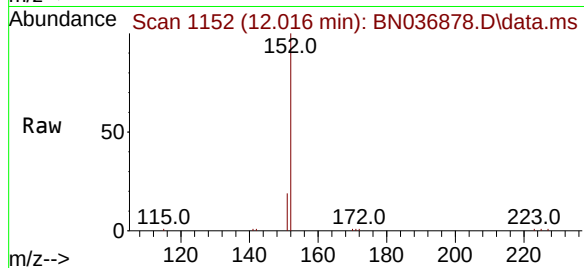




#11
2-Methylnaphthalene-d10
Concen: 3.377 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

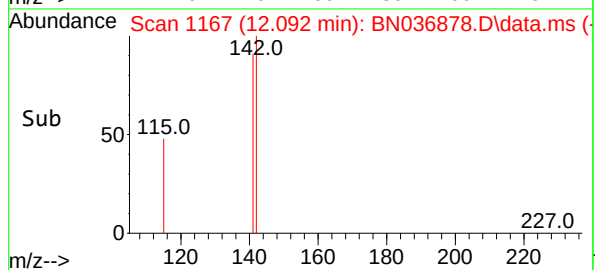
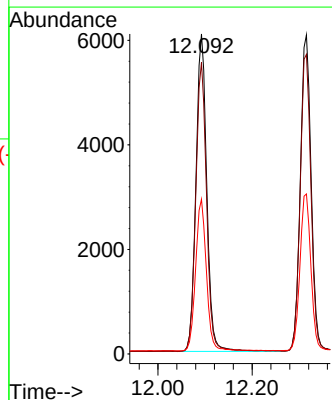
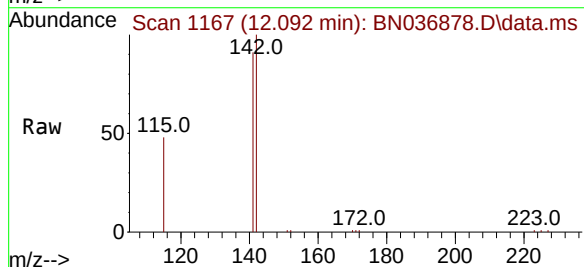
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

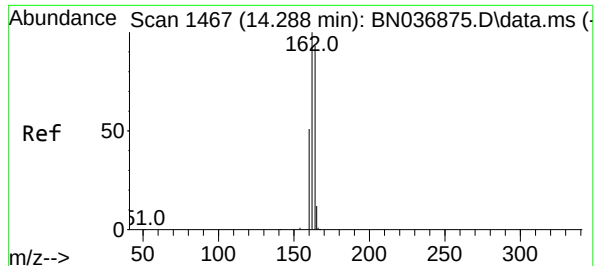
Tgt Ion:152 Resp: 7659
Ion Ratio Lower Upper
152 100
151 21.5 17.8 26.8



#12
2-Methylnaphthalene
Concen: 3.372 ng
RT: 12.092 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion:142 Resp: 9748
Ion Ratio Lower Upper
142 100
141 91.1 73.8 110.8
115 48.4 43.3 64.9

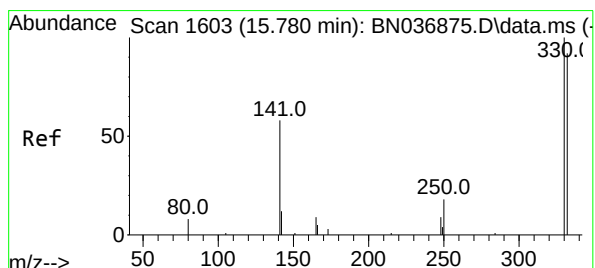
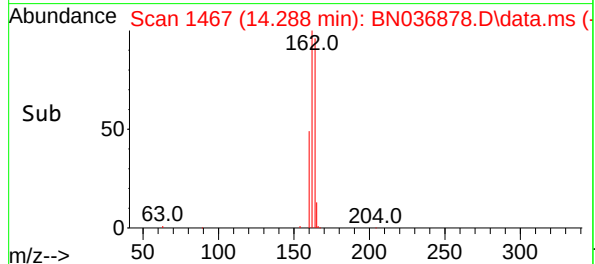
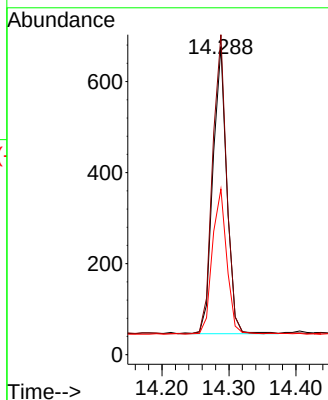
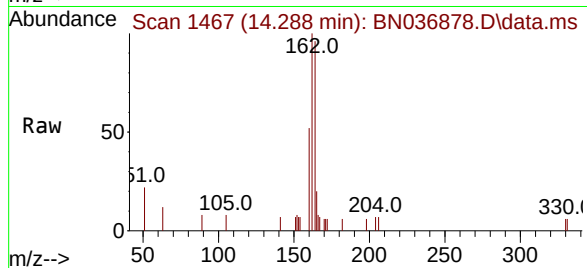




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

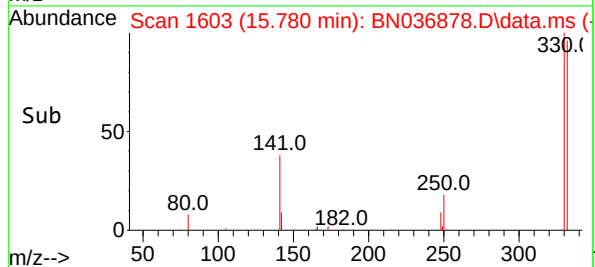
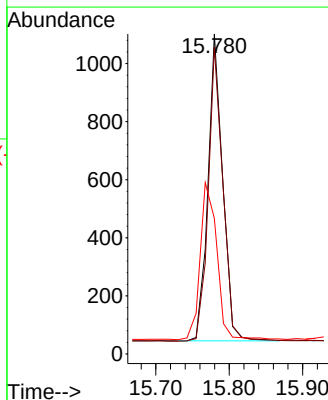
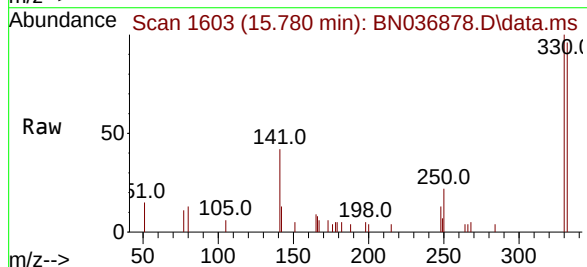
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

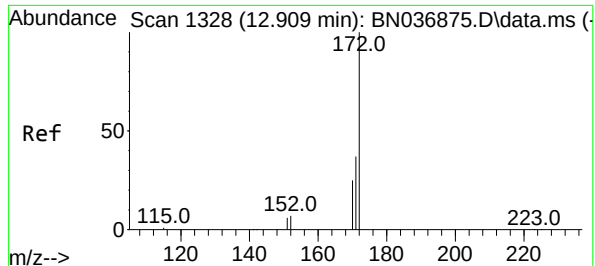
Tgt Ion:164 Resp: 909
Ion Ratio Lower Upper
164 100
162 103.8 85.7 128.5
160 53.8 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 3.352 ng
RT: 15.780 min Scan# 1603
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion:330 Resp: 1472
Ion Ratio Lower Upper
330 100
332 95.8 87.0 130.6
141 58.0 45.3 67.9





#15

2-Fluorobiphenyl

Concen: 3.443 ng

RT: 12.909 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

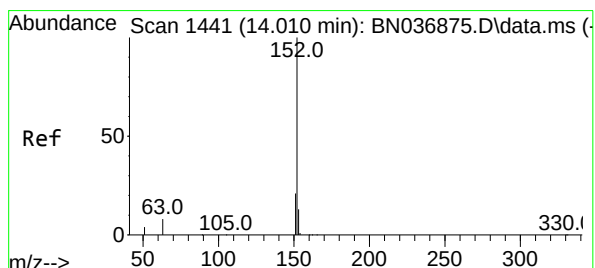
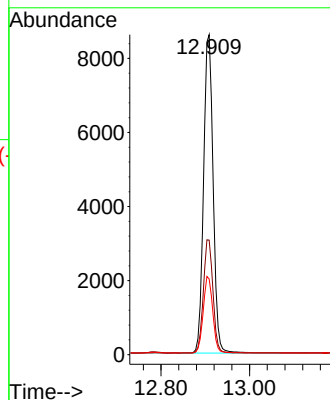
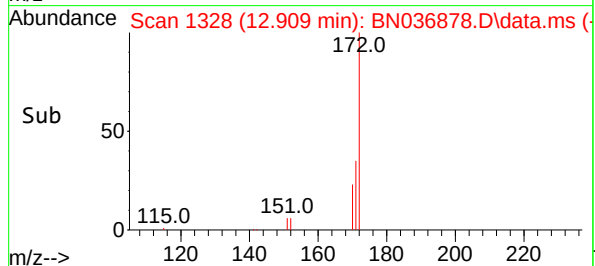
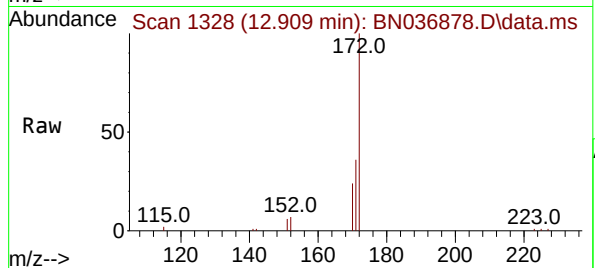
Tgt Ion:172 Resp: 15146

Ion Ratio Lower Upper

172 100

171 35.8 32.7 49.1

170 23.6 23.3 34.9



#16

Acenaphthylene

Concen: 3.436 ng

RT: 13.999 min Scan# 1440

Delta R.T. -0.011 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

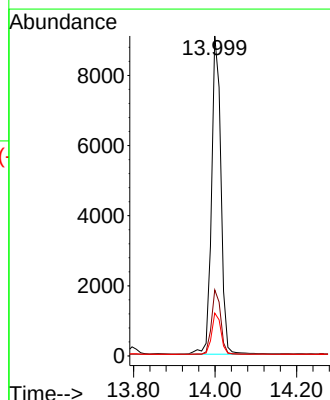
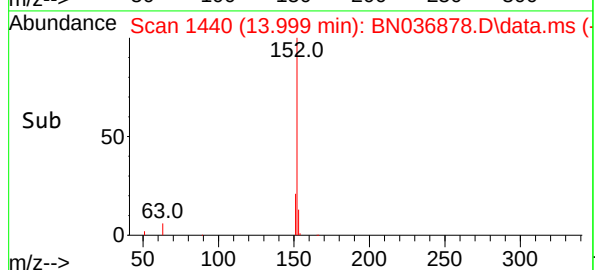
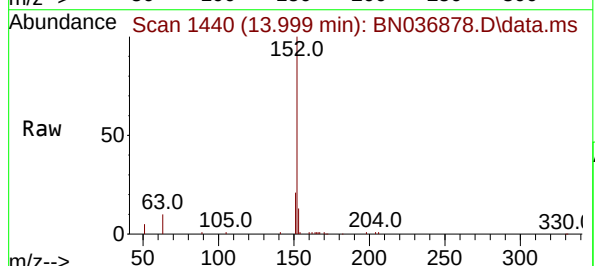
Tgt Ion:152 Resp: 14508

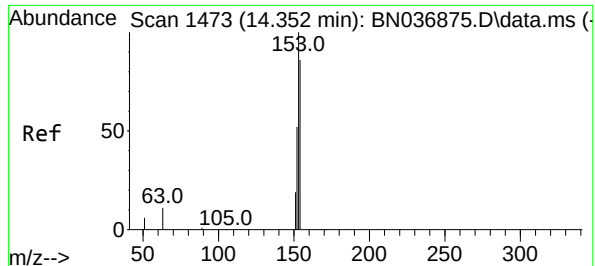
Ion Ratio Lower Upper

152 100

151 19.8 16.4 24.6

153 12.8 10.3 15.5





#17

Acenaphthene

Concen: 3.477 ng

RT: 14.352 min Scan# 1473

Delta R.T. -0.000 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

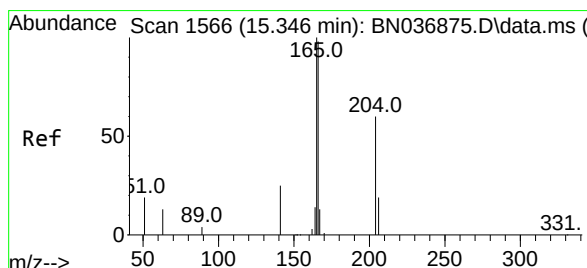
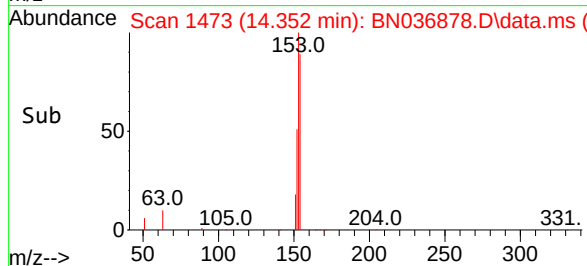
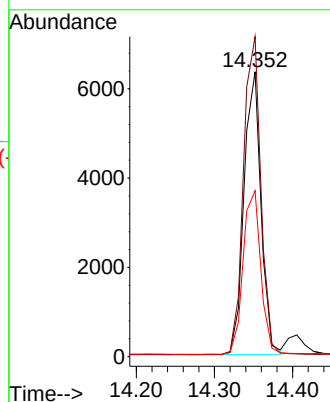
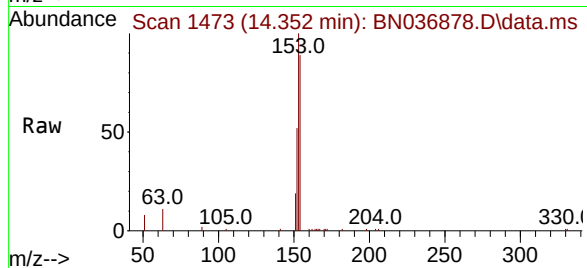
Tgt Ion:154 Resp: 9568

Ion Ratio Lower Upper

154 100

153 115.3 97.8 146.6

152 60.8 52.7 79.1



#18

Fluorene

Concen: 3.408 ng

RT: 15.336 min Scan# 1565

Delta R.T. -0.011 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

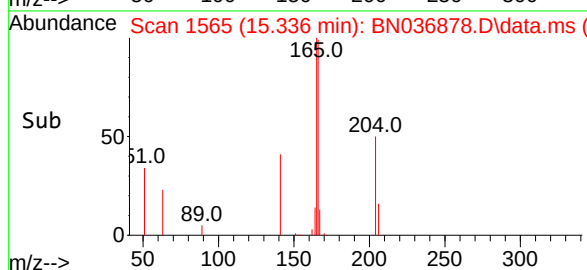
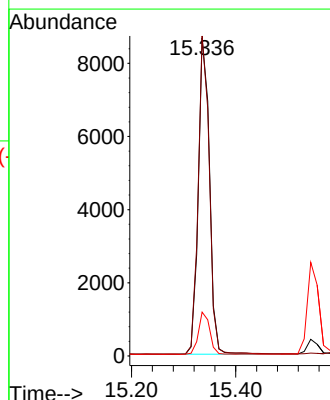
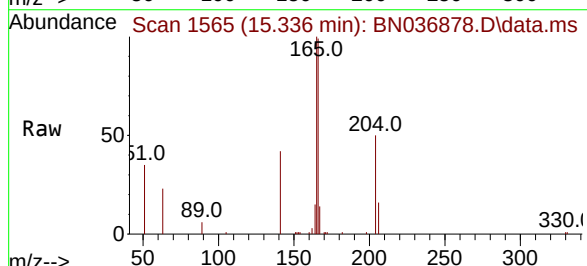
Tgt Ion:166 Resp: 12941

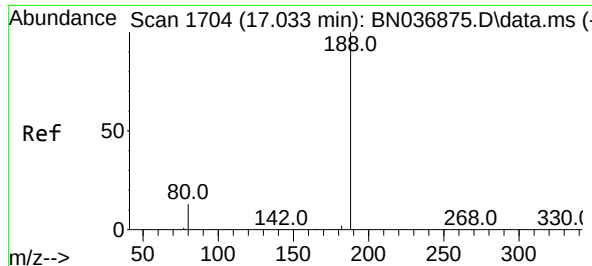
Ion Ratio Lower Upper

166 100

165 100.1 83.2 124.8

167 13.4 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.033 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

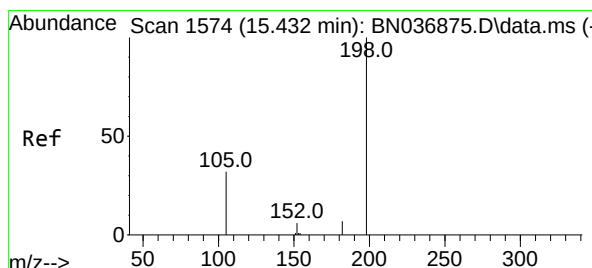
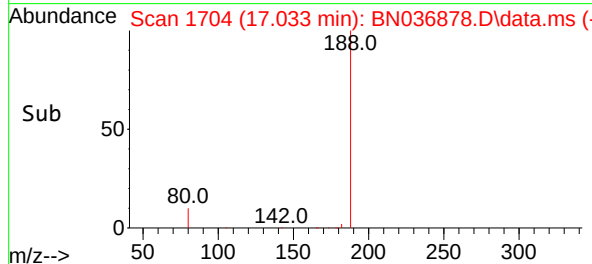
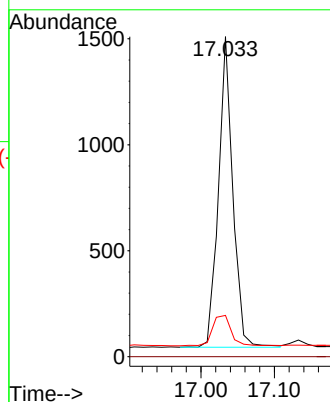
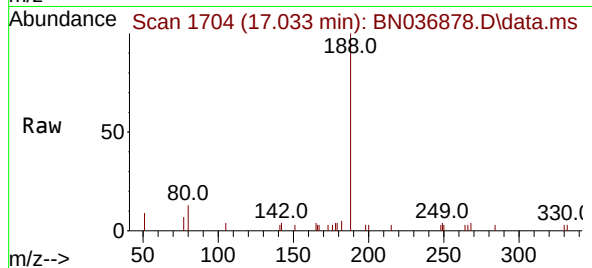
Tgt Ion:188 Resp: 1989

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.9 13.9 20.9#



#20

4,6-Dinitro-2-methylphenol

Concen: 3.983 ng

RT: 15.421 min Scan# 1573

Delta R.T. -0.011 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

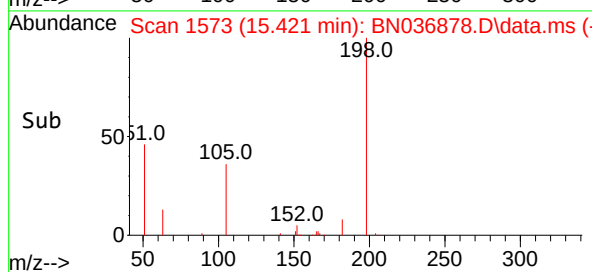
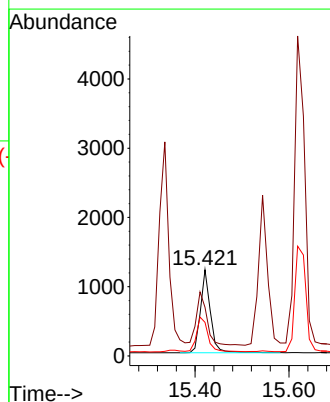
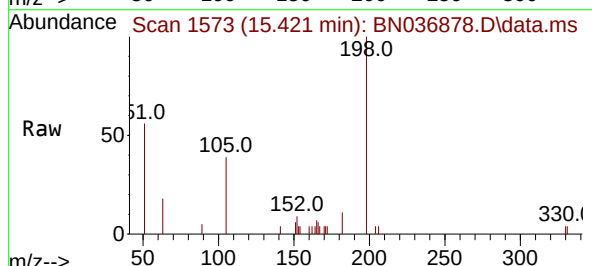
Tgt Ion:198 Resp: 1852

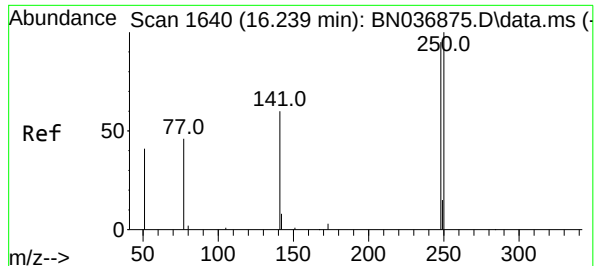
Ion Ratio Lower Upper

198 100

51 56.4 107.6 161.4#

105 39.0 55.2 82.8#

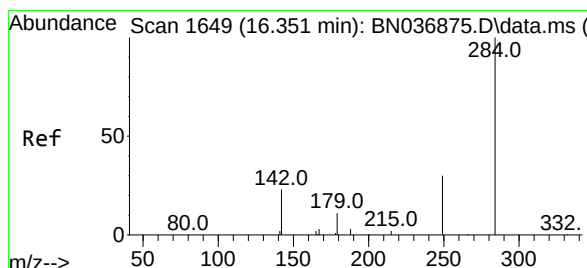
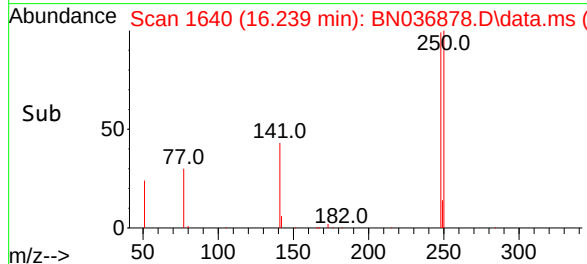
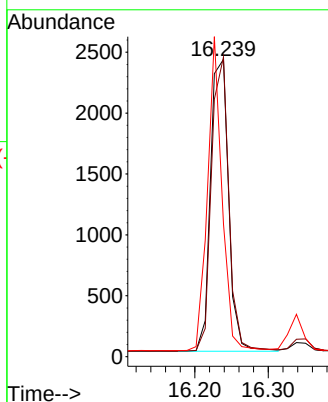
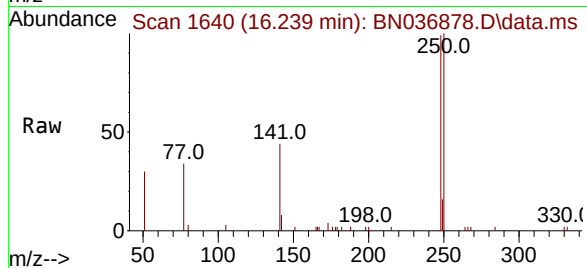




#21
4-Bromophenyl-phenylether
Concen: 3.424 ng
RT: 16.239 min Scan# 1640
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

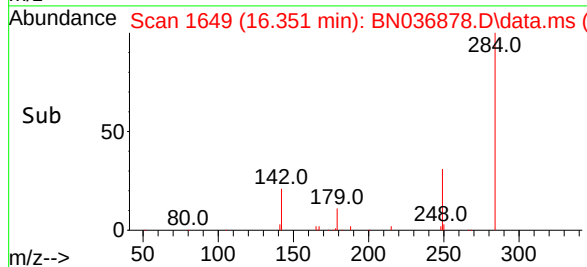
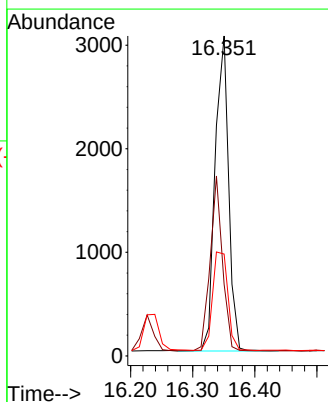
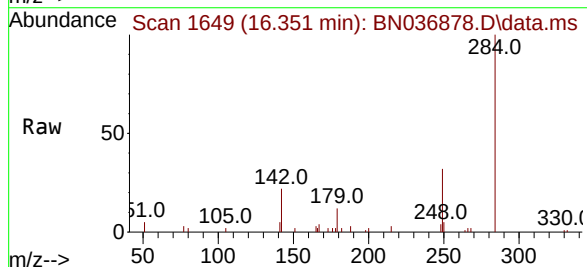
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

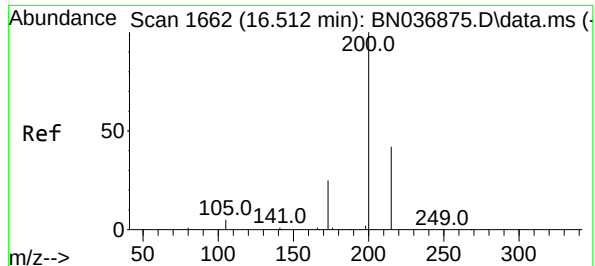
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.8	83.5	125.3
141	44.7	55.3	82.9



#22
Hexachlorobenzene
Concen: 3.209 ng
RT: 16.351 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.9	37.7	56.5
249	35.3	29.0	43.6

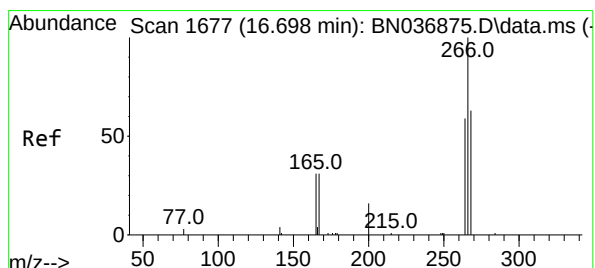
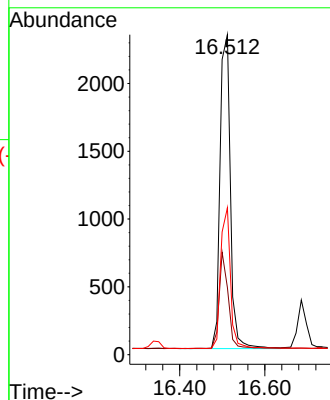
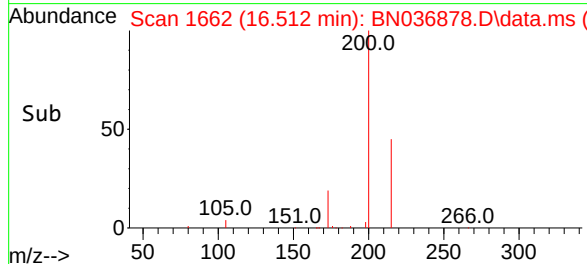
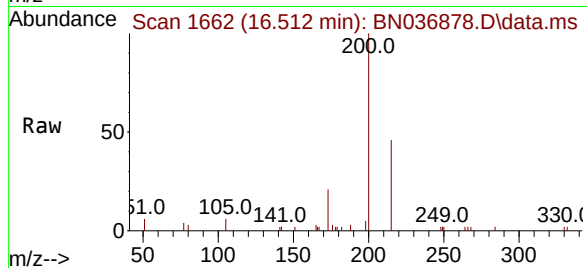




#23
Atrazine
Concen: 3.310 ng
RT: 16.512 min Scan# 1662
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

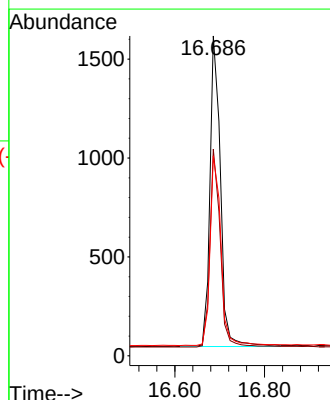
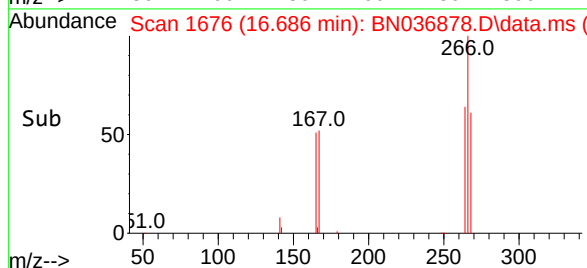
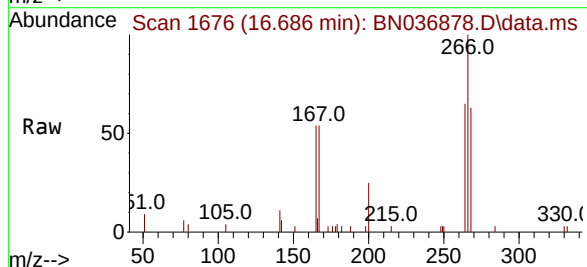
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

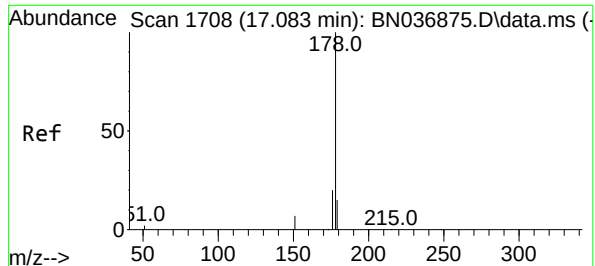
Tgt Ion:200 Resp: 3900
Ion Ratio Lower Upper
200 100
173 21.0 28.6 43.0#
215 45.9 40.5 60.7



#24
Pentachlorophenol
Concen: 3.437 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion:266 Resp: 2539
Ion Ratio Lower Upper
266 100
264 62.3 44.6 66.8
268 63.3 51.8 77.6

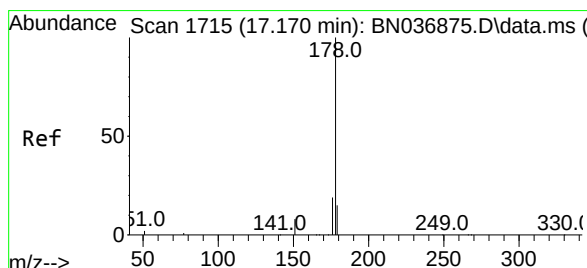
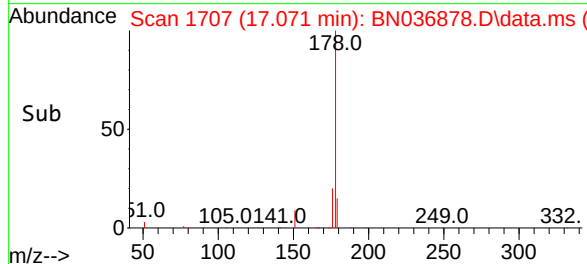
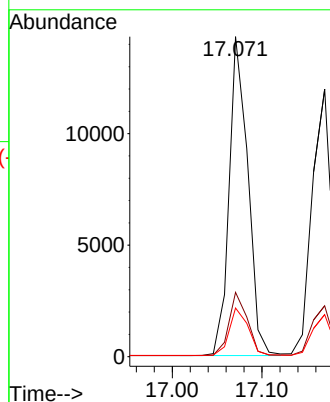
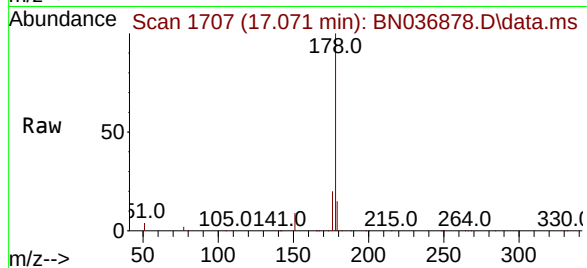




#25
Phenanthrene
Concen: 3.461 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

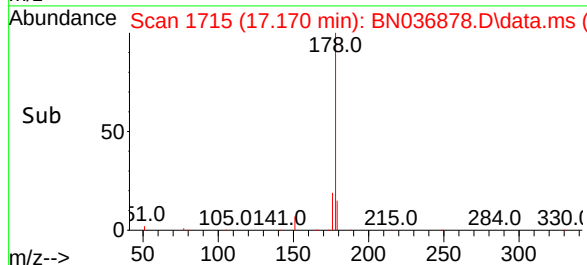
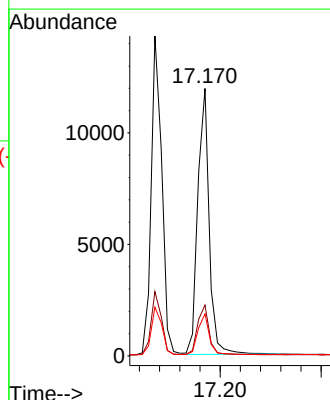
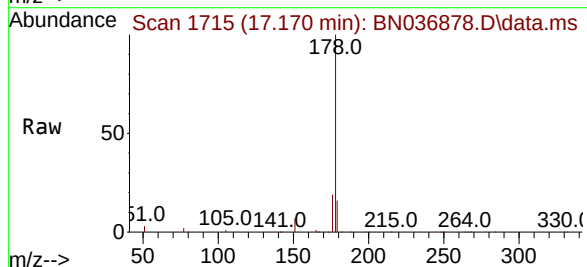
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

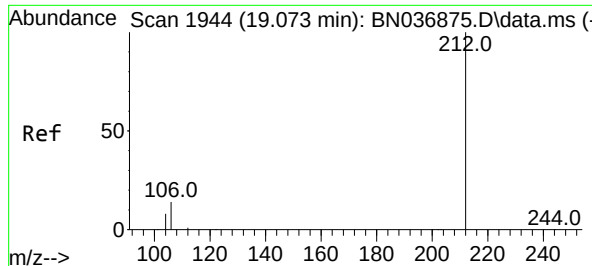
Tgt Ion	178	176	179
Resp:	20685		
Ion Ratio	100	19.6	15.3
Lower		16.6	12.8
Upper		25.0	19.2



#26
Anthracene
Concen: 3.552 ng
RT: 17.170 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion	178	176	179
Resp:	18814		
Ion Ratio	100	18.9	15.1
Lower		15.8	12.6
Upper		23.6	18.8





#27

Fluoranthene-d10

Concen: 3.491 ng

RT: 19.073 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

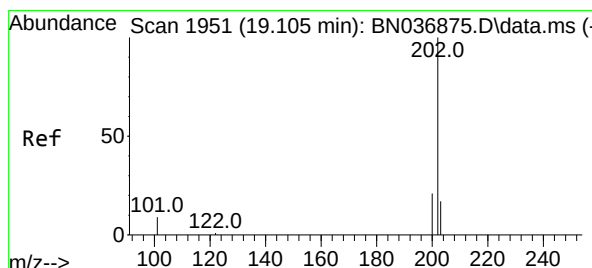
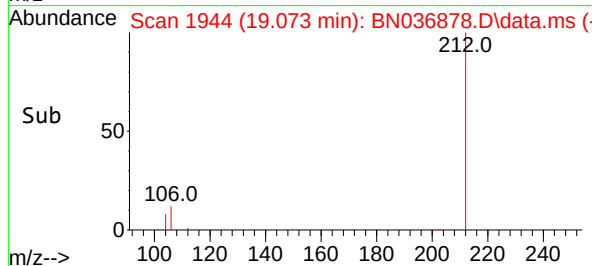
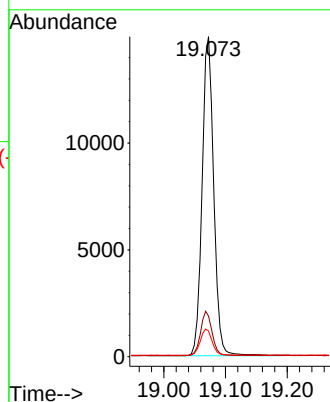
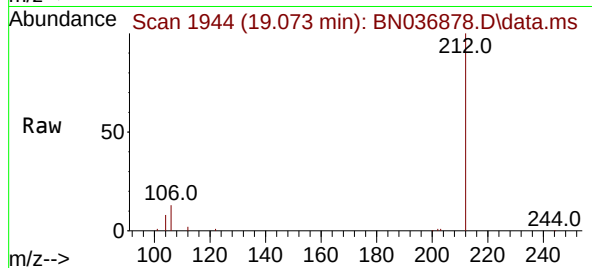
Tgt Ion:212 Resp: 19501

Ion Ratio Lower Upper

212 100

106 13.6 11.2 16.8

104 8.4 7.5 11.3



#28

Fluoranthene

Concen: 3.581 ng

RT: 19.100 min Scan# 1950

Delta R.T. -0.005 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

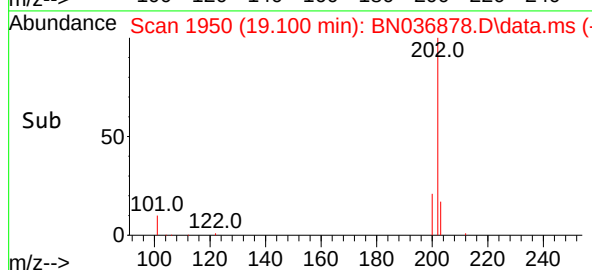
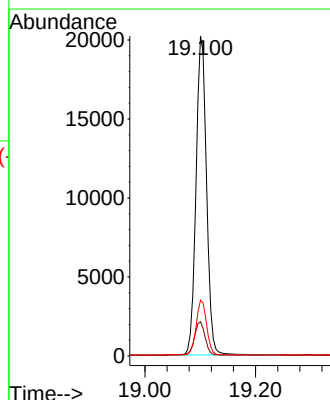
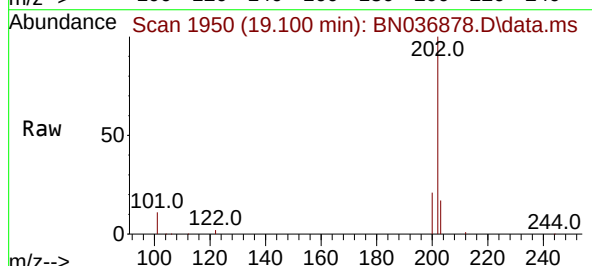
Tgt Ion:202 Resp: 26690

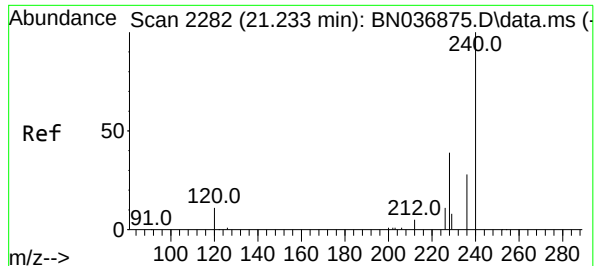
Ion Ratio Lower Upper

202 100

101 10.7 8.5 12.7

203 17.0 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

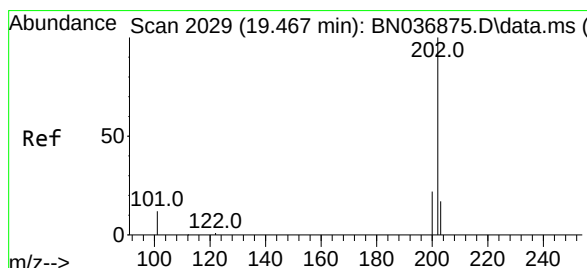
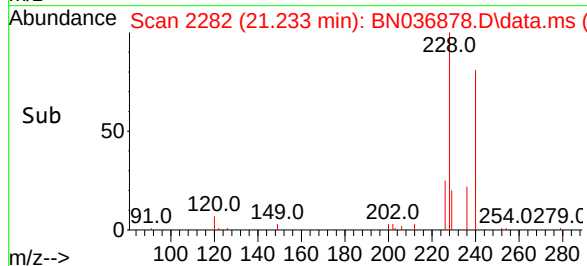
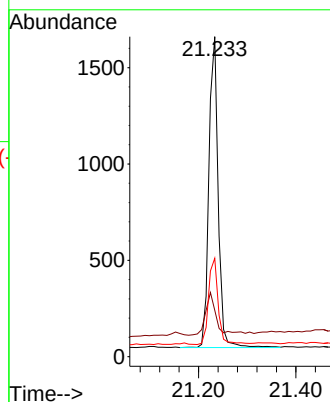
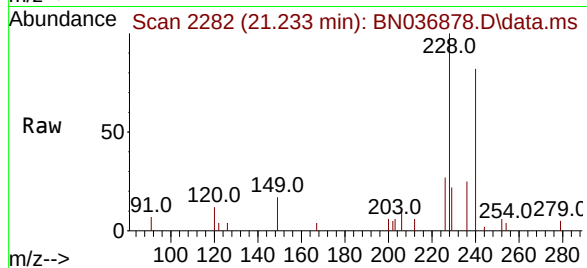
Tgt Ion:240 Resp: 2148

Ion Ratio Lower Upper

240 100

120 14.5 15.8 23.6#

236 30.8 25.8 38.8



#30

Pyrene

Concen: 3.326 ng

RT: 19.463 min Scan# 2028

Delta R.T. -0.005 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

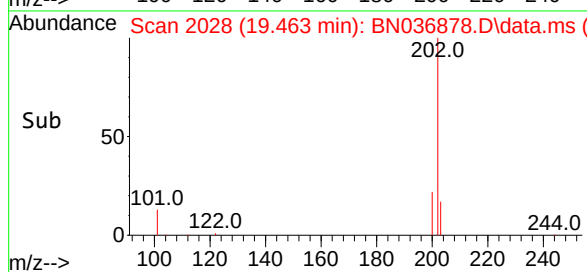
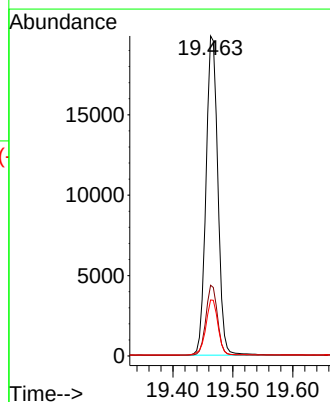
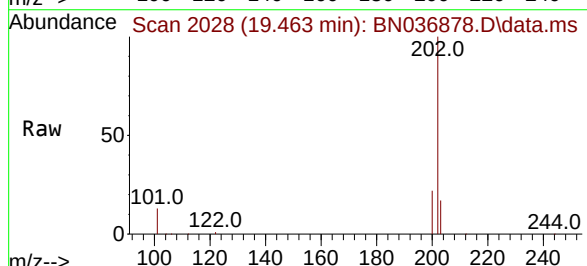
Tgt Ion:202 Resp: 27182

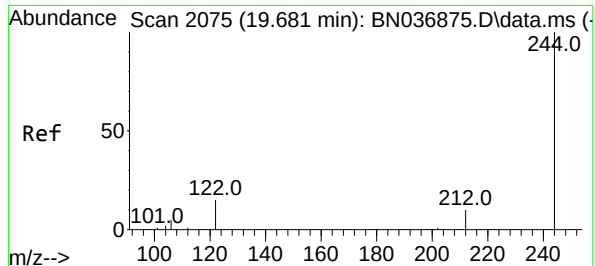
Ion Ratio Lower Upper

202 100

200 21.6 17.1 25.7

203 17.8 14.5 21.7

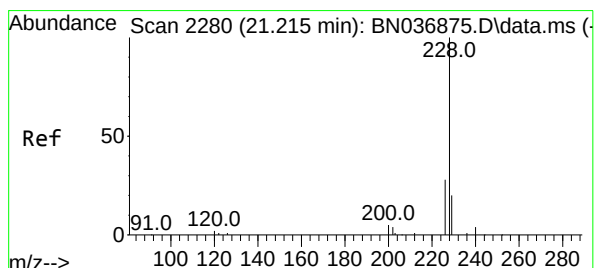
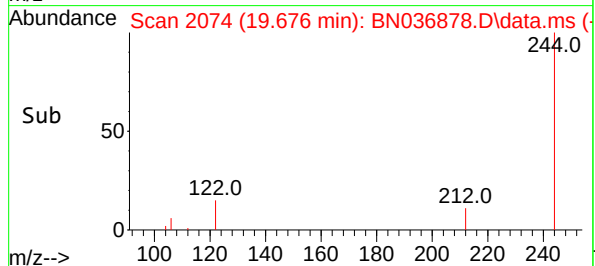
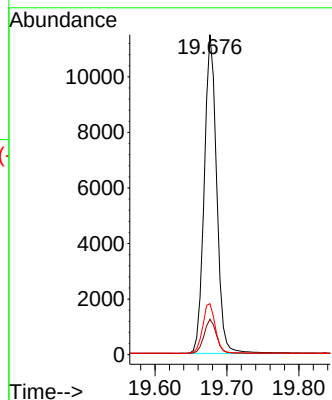
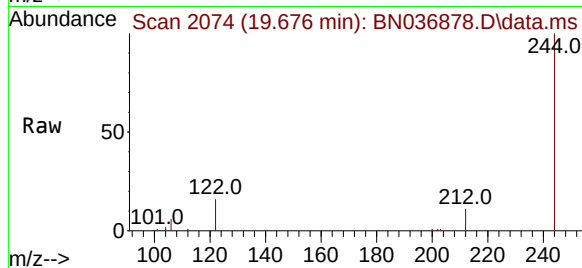




#31
Terphenyl-d14
Concen: 3.353 ng
RT: 19.676 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

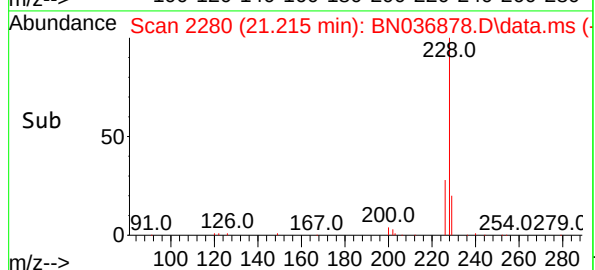
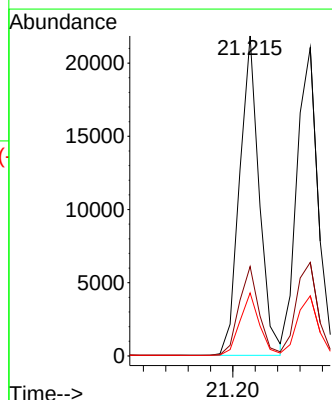
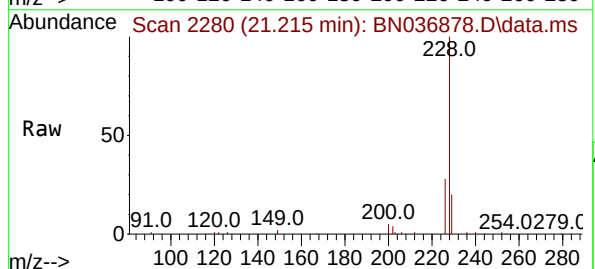
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

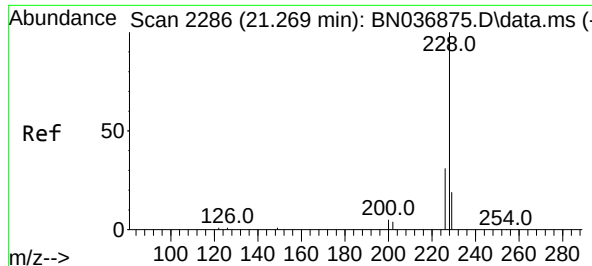
Tgt Ion:244 Resp: 13773
Ion Ratio Lower Upper
244 100
212 11.1 11.6 17.4#
122 15.9 14.9 22.3



#32
Benzo(a)anthracene
Concen: 3.527 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion:228 Resp: 26678
Ion Ratio Lower Upper
228 100
226 28.0 24.5 36.7
229 19.7 17.7 26.5

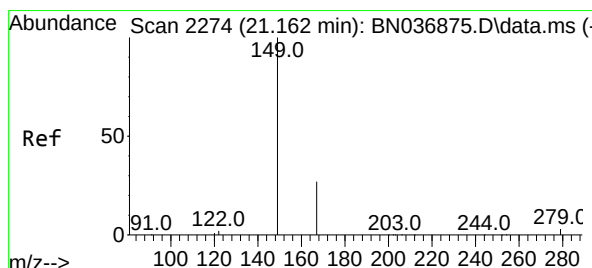
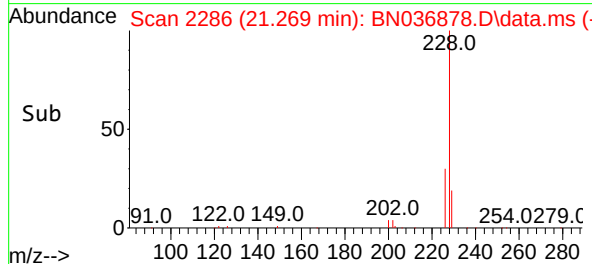
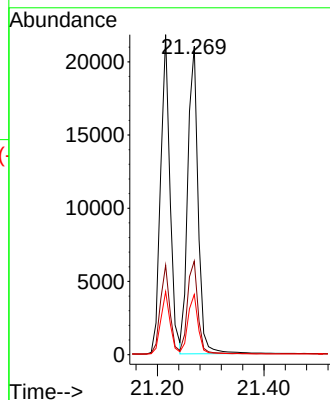
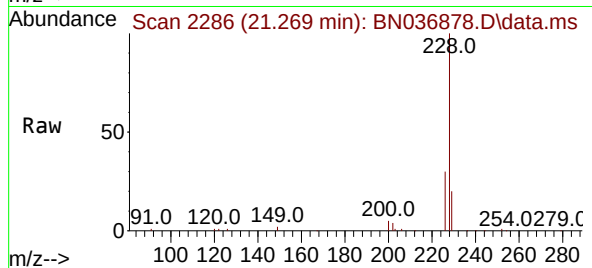




#33
Chrysene
Concen: 3.357 ng
RT: 21.269 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

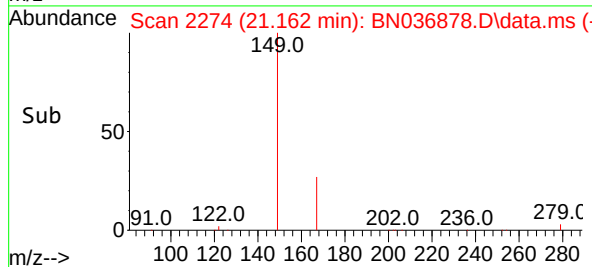
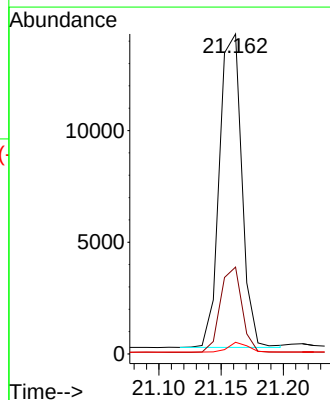
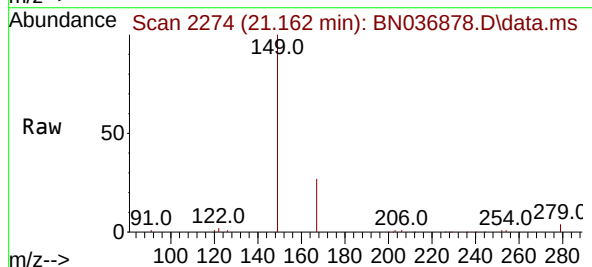
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

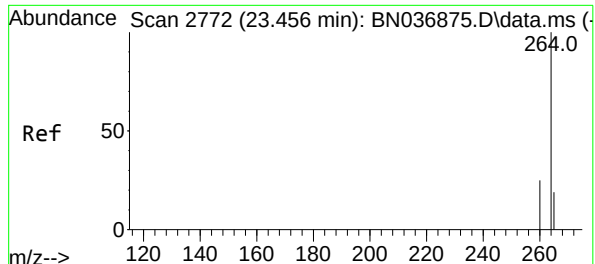
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	26.1	39.1
229	19.5	17.0	25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 3.069 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN036878.D
Acq: 11 Apr 2025 15:06

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.0	31.4
279	2.7	3.6	5.4#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.450 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

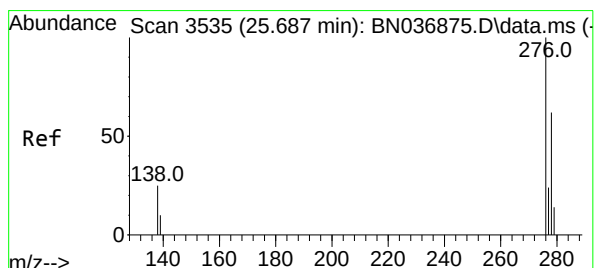
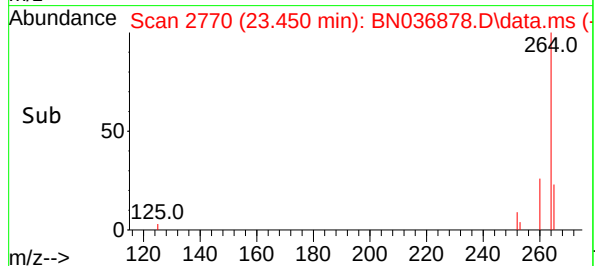
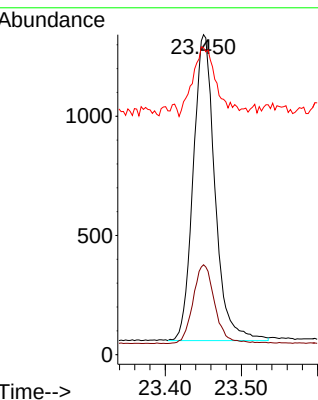
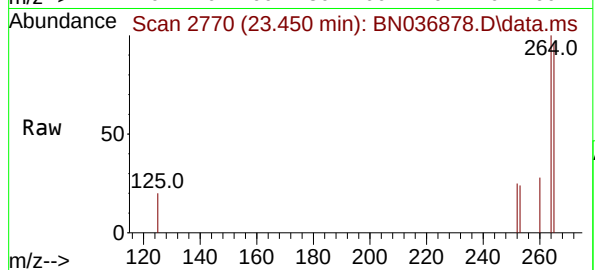
Tgt Ion:264 Resp: 2540

Ion Ratio Lower Upper

264 100

260 28.1 22.9 34.3

265 95.9 88.6 132.8



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.521 ng

RT: 25.678 min Scan# 3532

Delta R.T. -0.009 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06

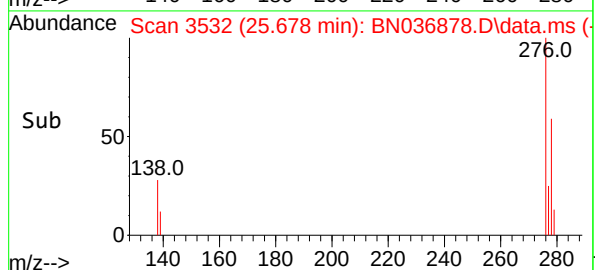
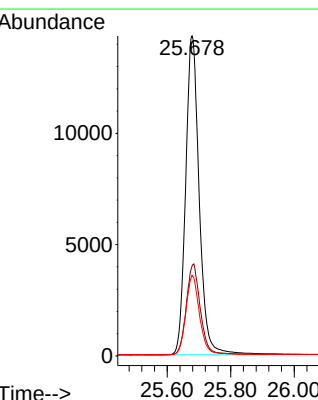
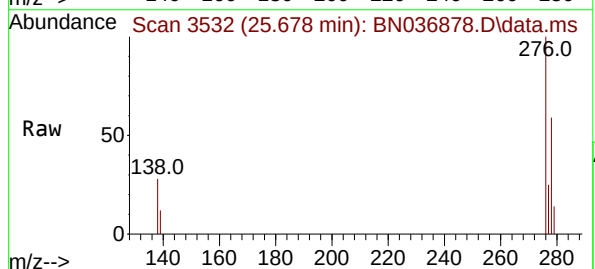
Tgt Ion:276 Resp: 42649

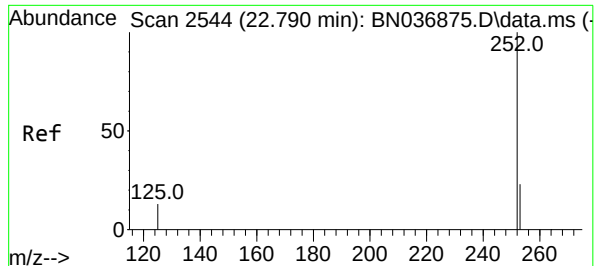
Ion Ratio Lower Upper

276 100

138 29.1 21.0 31.6

277 25.0 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 3.561 ng

RT: 22.784 min Scan# 2542

Delta R.T. -0.006 min

Lab File: BN036878.D

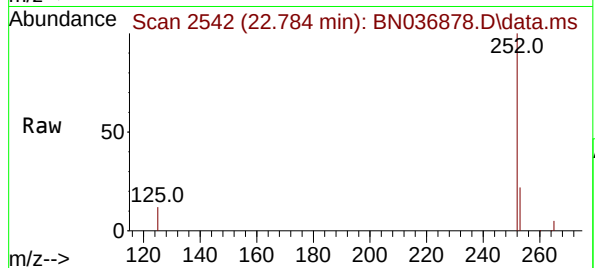
Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



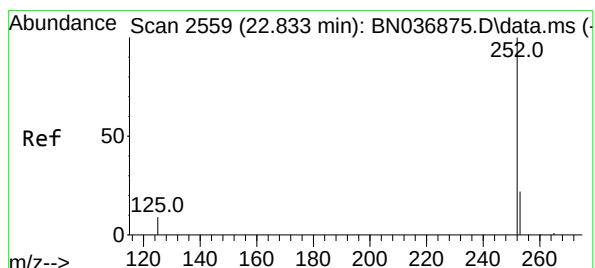
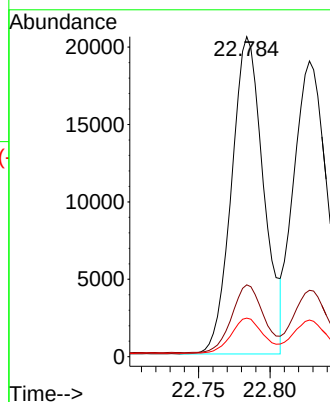
Tgt Ion:252 Resp: 31952

Ion Ratio Lower Upper

252 100

253 22.5 27.0 40.6#

125 12.1 17.7 26.5#



#38

Benzo(k)fluoranthene

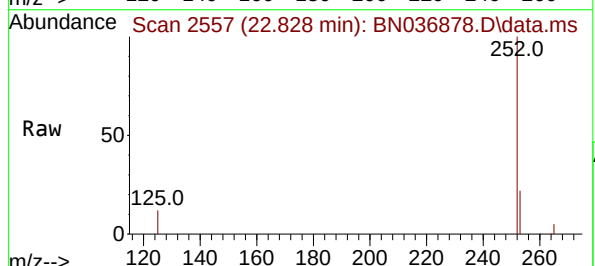
Concen: 3.477 ng

RT: 22.828 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BN036878.D

Acq: 11 Apr 2025 15:06



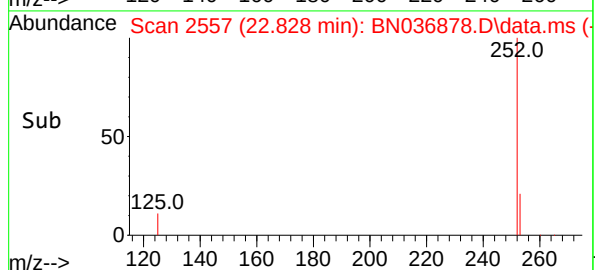
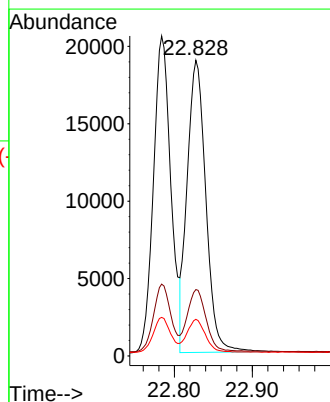
Tgt Ion:252 Resp: 31392

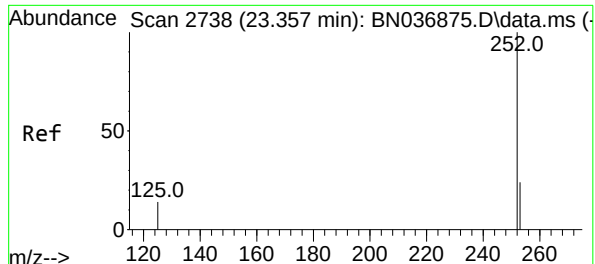
Ion Ratio Lower Upper

252 100

253 22.5 26.7 40.1#

125 12.4 16.9 25.3#





#39

Benzo(a)pyrene

Concen: 3.562 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036878.D

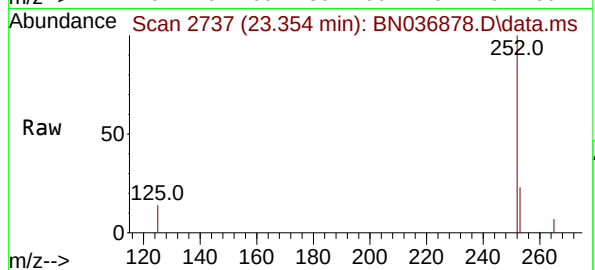
Acq: 11 Apr 2025 15:06

Instrument :

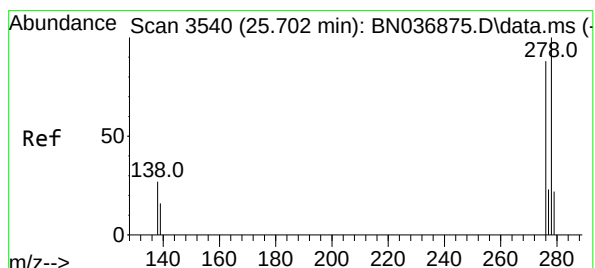
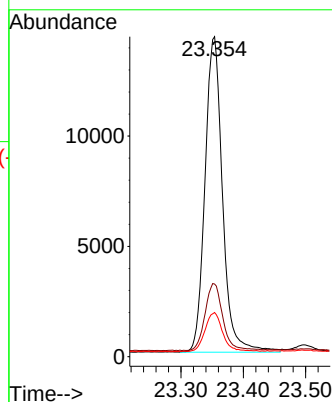
BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:	252	Resp:	28001
Ion Ratio	Lower	Upper	
252	100		
253	22.7	31.5	47.3#
125	13.8	22.6	34.0#



#40

Dibenzo(a,h)anthracene

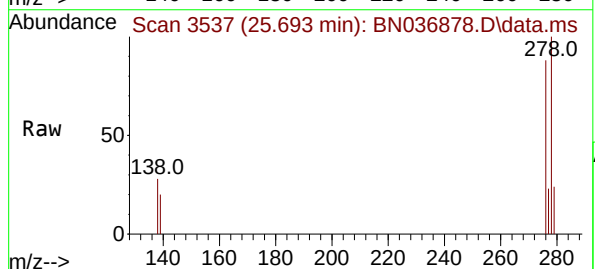
Concen: 3.561 ng

RT: 25.693 min Scan# 3537

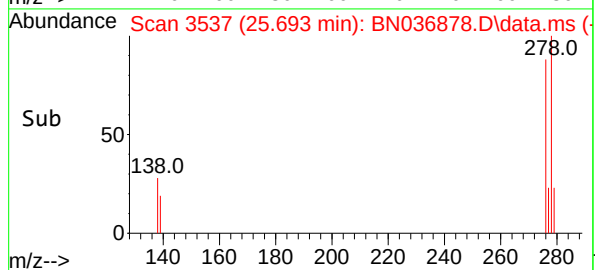
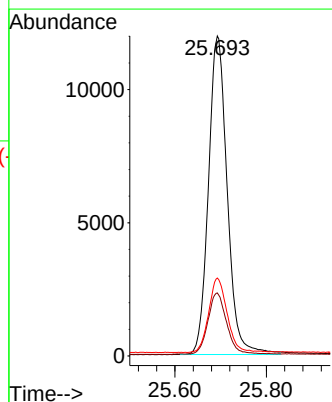
Delta R.T. -0.009 min

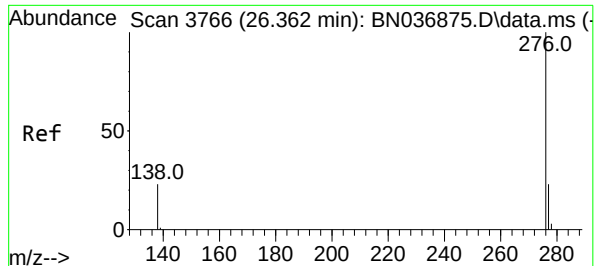
Lab File: BN036878.D

Acq: 11 Apr 2025 15:06



Tgt Ion:	278	Resp:	34145
Ion Ratio	Lower	Upper	
278	100		
139	19.7	17.6	26.4
279	24.3	26.7	40.1#





#41

Benzo(g,h,i)perylene

Concen: 3.415 ng

RT: 26.359 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036878.D

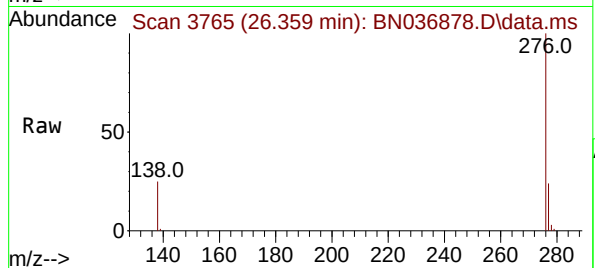
Acq: 11 Apr 2025 15:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



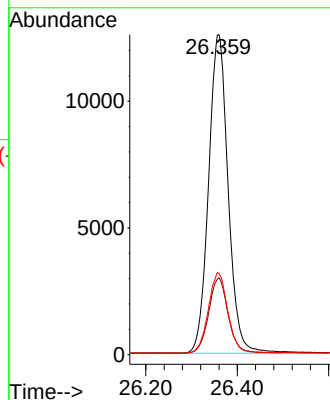
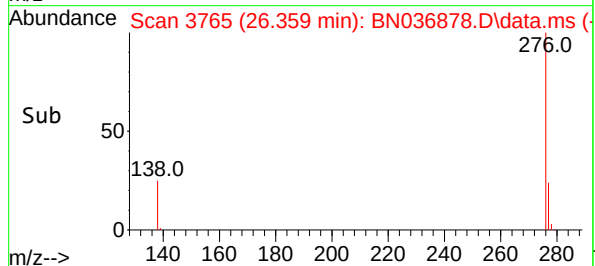
Tgt Ion:276 Resp: 37283

Ion Ratio Lower Upper

276 100

277 24.0 21.8 32.8

138 25.4 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036879.D
 Acq On : 11 Apr 2025 15:42
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Apr 11 16:10:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:54:19 2025
 Response via : Initial Calibration

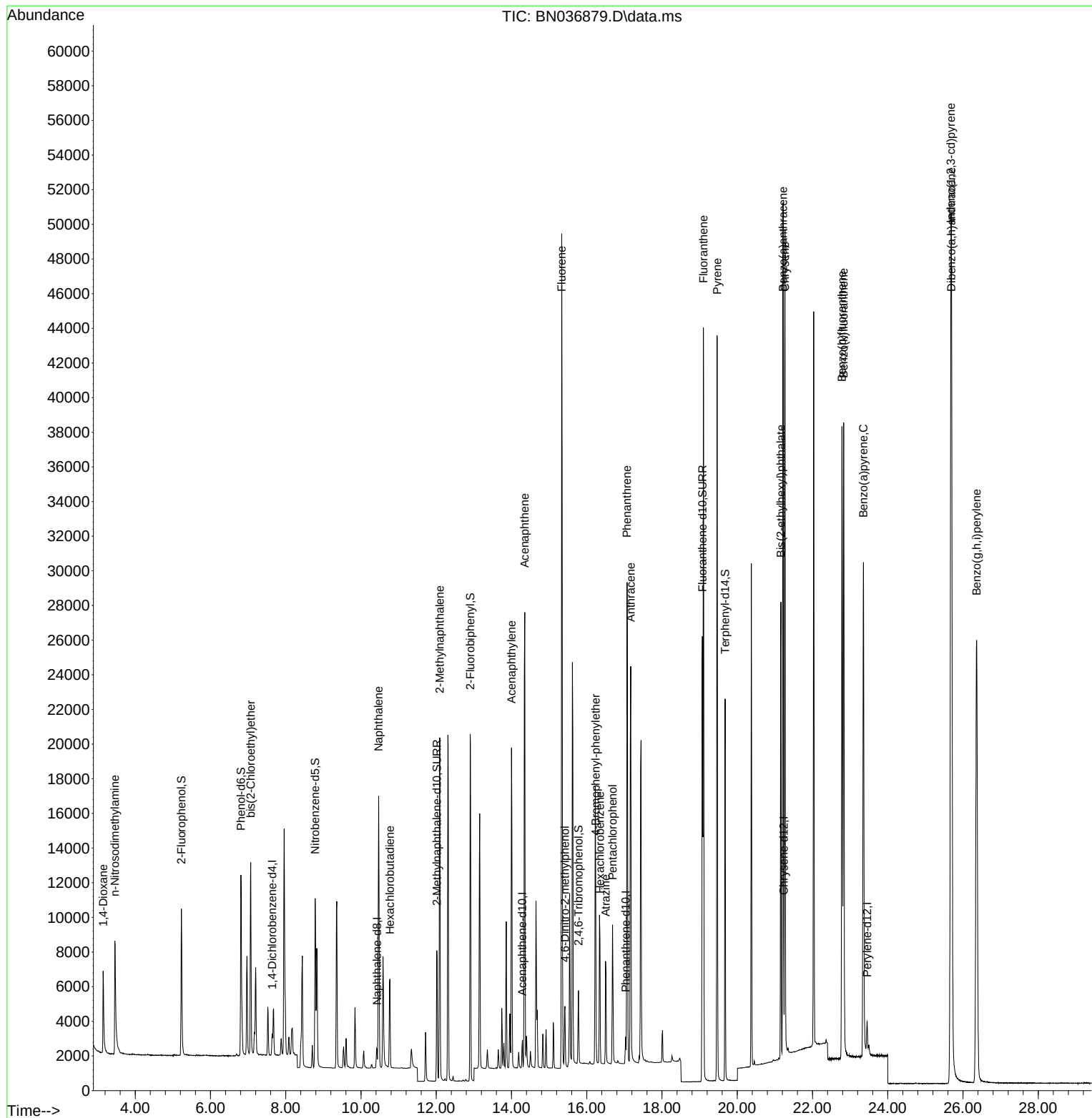
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	567	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	1439	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	846	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	1883	0.400	ng	0.00
29) Chrysene-d12	21.233	240	2075	0.400	ng	# 0.00
35) Perylene-d12	23.450	264	2437	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	6296	4.676	ng	0.00
5) Phenol-d6	6.809	99	8262	4.820	ng	0.00
8) Nitrobenzene-d5	8.781	82	7400	4.576	ng	-0.01
11) 2-Methylnaphthalene-d10	12.016	152	10278	4.898	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	2017	4.936	ng	0.00
15) 2-Fluorobiphenyl	12.904	172	19383	4.735	ng	0.00
27) Fluoranthene-d10	19.073	212	27011	5.107	ng	0.00
31) Terphenyl-d14	19.677	244	18930	4.771	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	2954	4.405	ng	Qvalue 93
3) n-Nitrosodimethylamine	3.458	42	6680	4.523	ng	# 96
6) bis(2-Chloroethyl)ether	7.069	93	7731	4.563	ng	92
9) Naphthalene	10.468	128	19422	4.644	ng	# 89
10) Hexachlorobutadiene	10.767	225	4231	4.432	ng	# 100
12) 2-Methylnaphthalene	12.092	142	13024	4.868	ng	95
16) Acenaphthylene	13.999	152	19678	5.008	ng	99
17) Acenaphthene	14.352	154	12748	4.978	ng	94
18) Fluorene	15.336	166	17523	4.959	ng	96
20) 4,6-Dinitro-2-methylph...	15.421	198	2409	5.472	ng	# 42
21) 4-Bromophenyl-phenylether	16.239	248	5432	4.787	ng	# 86
22) Hexachlorobenzene	16.351	284	6185	4.578	ng	96
23) Atrazine	16.500	200	5134	4.603	ng	91
24) Pentachlorophenol	16.686	266	3504	5.010	ng	94
25) Phenanthrene	17.071	178	27851	4.922	ng	98
26) Anthracene	17.170	178	25741	5.133	ng	99
28) Fluoranthene	19.101	202	36952	5.237	ng	100
30) Pyrene	19.468	202	37628	4.766	ng	99
32) Benzo(a)anthracene	21.215	228	37427	5.123	ng	95
33) Chrysene	21.269	228	39358	4.850	ng	96
34) Bis(2-ethylhexyl)phtha...	21.162	149	24571	4.445	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.678	276	58462	5.031	ng	96
37) Benzo(b)fluoranthene	22.784	252	44349	5.152	ng	# 79
38) Benzo(k)fluoranthene	22.828	252	44237	5.084	ng	# 81
39) Benzo(a)pyrene	23.354	252	38961	5.166	ng	# 72
40) Dibenzo(a,h)anthracene	25.693	278	47274	5.138	ng	# 88
41) Benzo(g,h,i)perylene	26.362	276	51130	4.881	ng	95

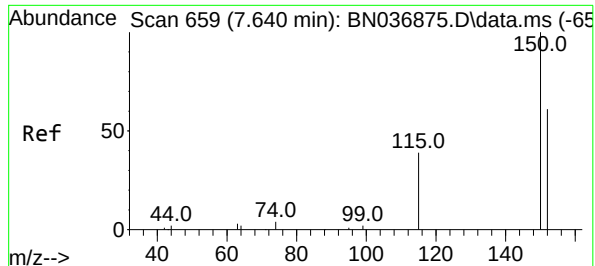
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036879.D
Acq On : 11 Apr 2025 15:42
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Apr 11 16:10:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:54:19 2025
Response via : Initial Calibration

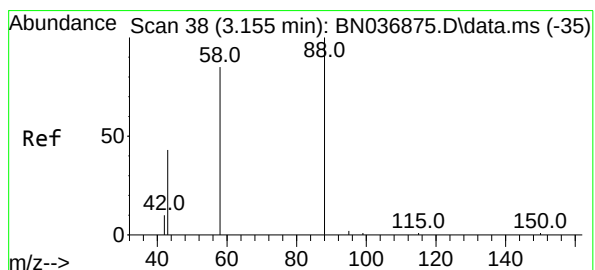
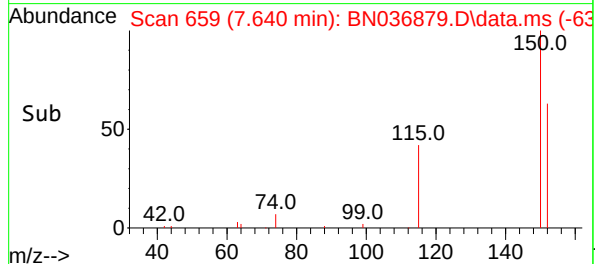
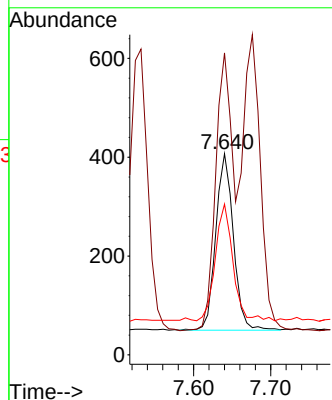
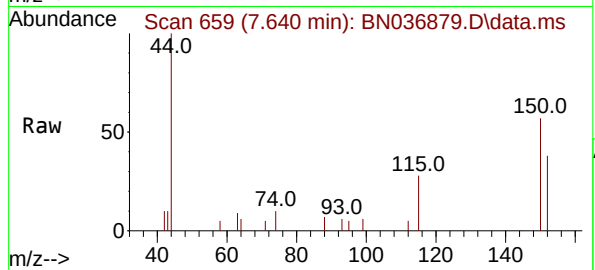




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

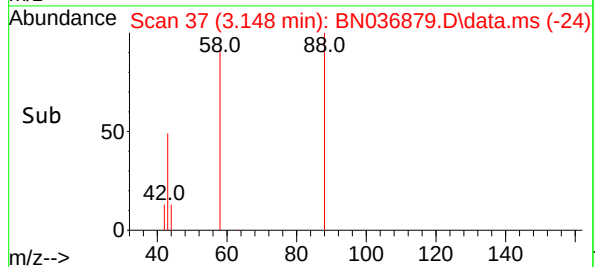
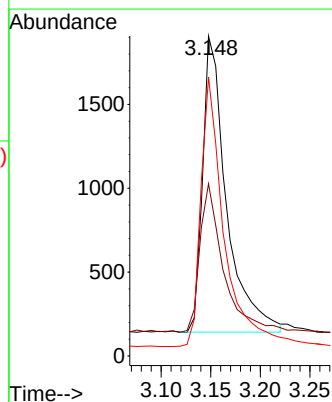
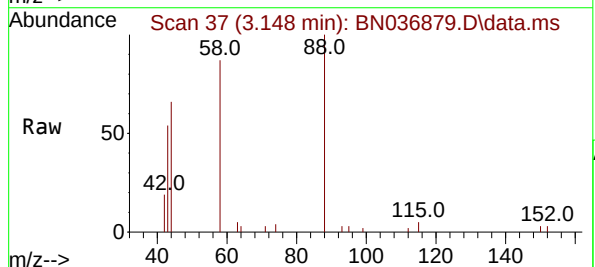
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

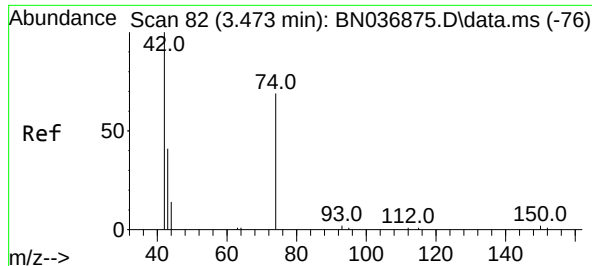
Tgt Ion:152 Resp: 567
Ion Ratio Lower Upper
152 100
150 150.1 123.0 184.6
115 74.9 60.1 90.1



#2
1,4-Dioxane
Concen: 4.405 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion: 88 Resp: 2954
Ion Ratio Lower Upper
88 100
43 49.9 39.2 58.8
58 88.5 63.5 95.3

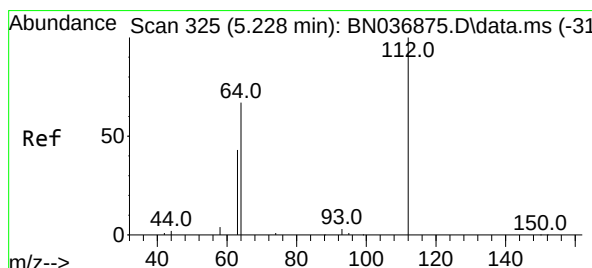
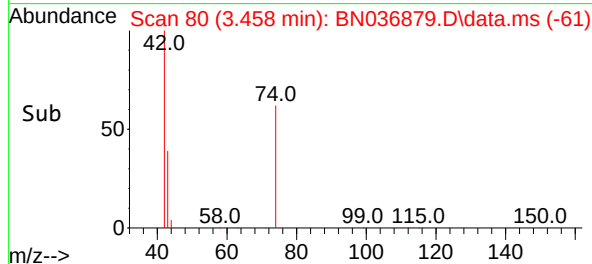
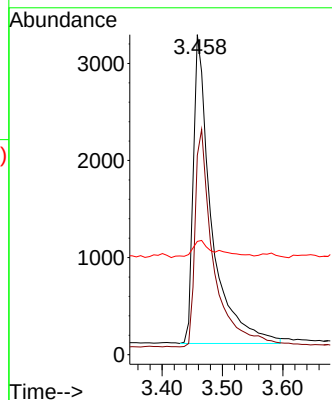
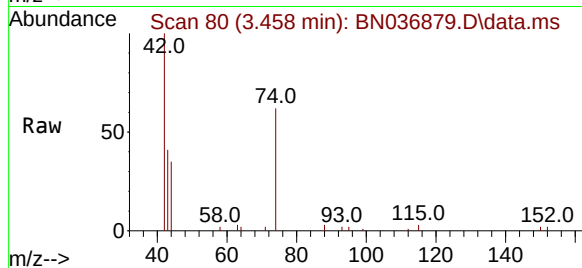




#3
n-Nitrosodimethylamine
Concen: 4.523 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.014 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

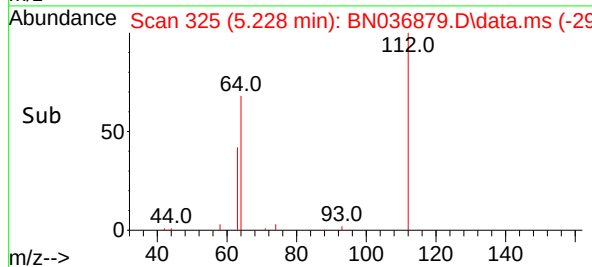
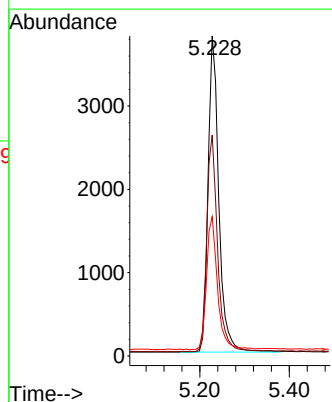
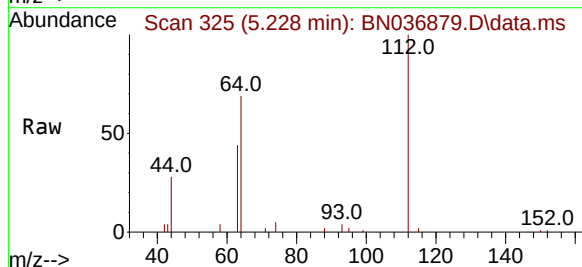
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

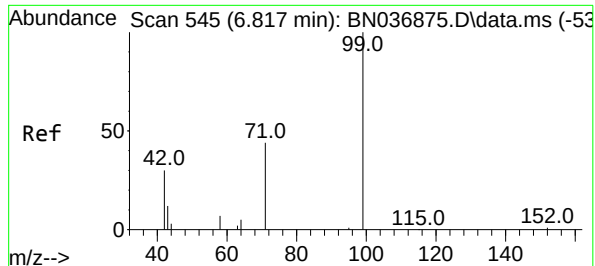
Tgt Ion: 42 Resp: 6680
Ion Ratio Lower Upper
42 100
74 71.6 54.6 81.8
44 4.9 0.0 0.0#



#4
2-Fluorophenol
Concen: 4.676 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion: 112 Resp: 6296
Ion Ratio Lower Upper
112 100
64 68.8 54.0 81.0
63 43.1 35.1 52.7

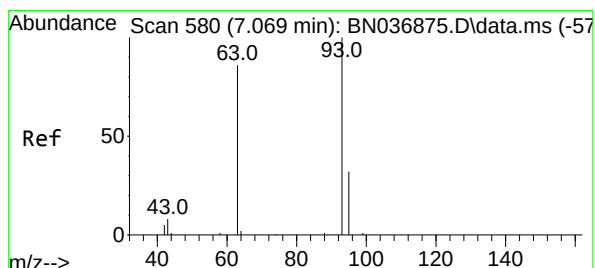
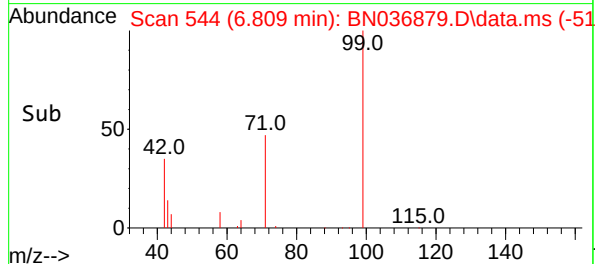
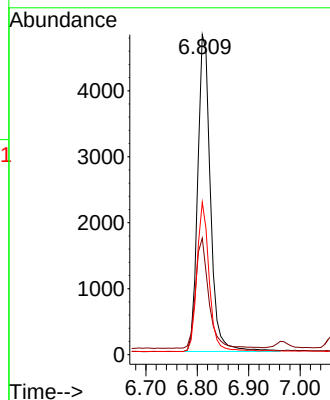
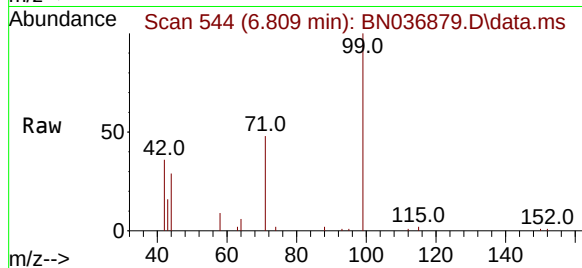




#5
Phenol-d6
Concen: 4.820 ng
RT: 6.809 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

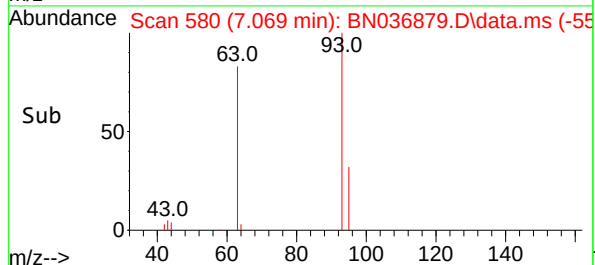
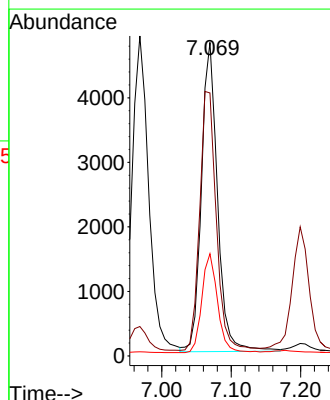
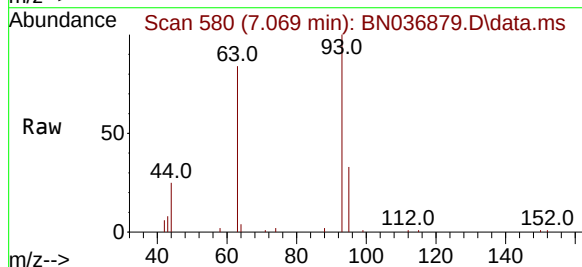
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

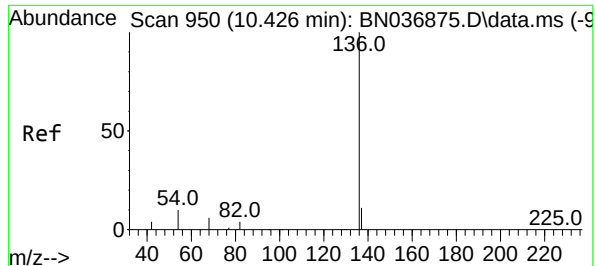
Tgt Ion: 99 Resp: 8262
Ion Ratio Lower Upper
99 100
42 36.5 30.9 46.3
71 45.2 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 4.563 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion: 93 Resp: 7731
Ion Ratio Lower Upper
93 100
63 86.1 76.4 114.6
95 31.2 26.1 39.1

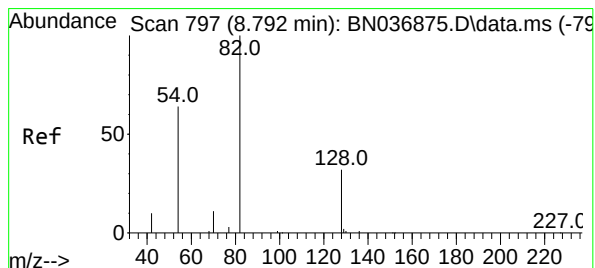
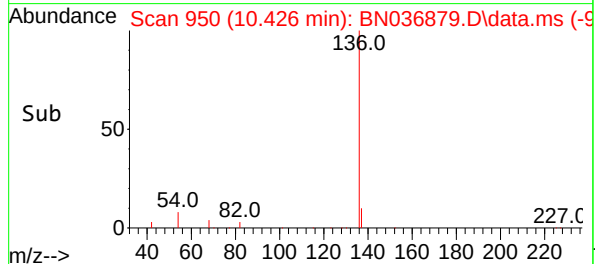
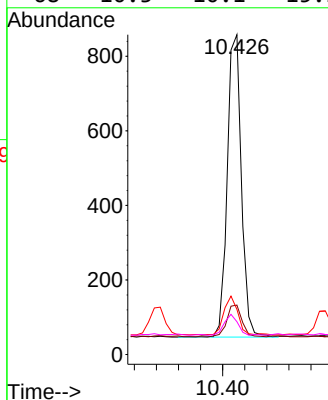
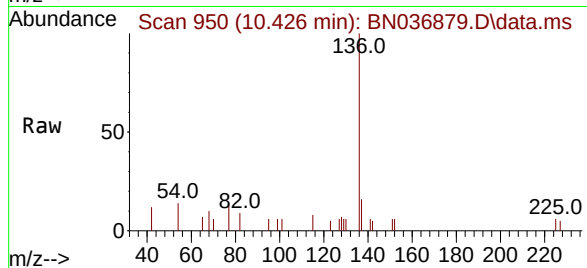




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

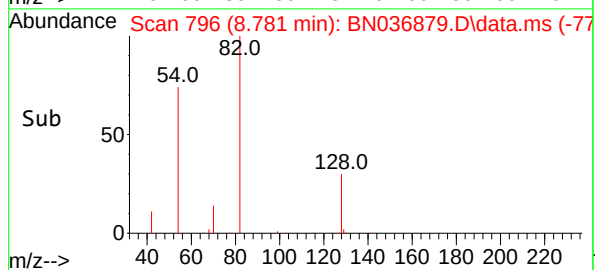
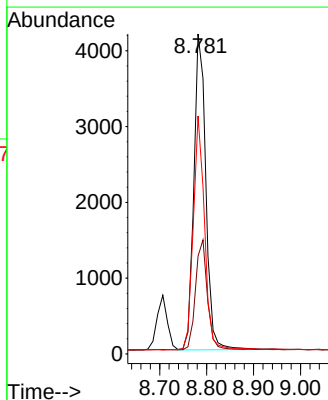
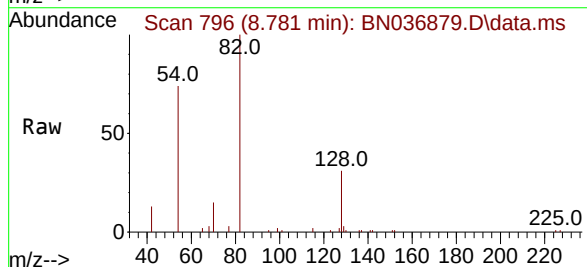
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

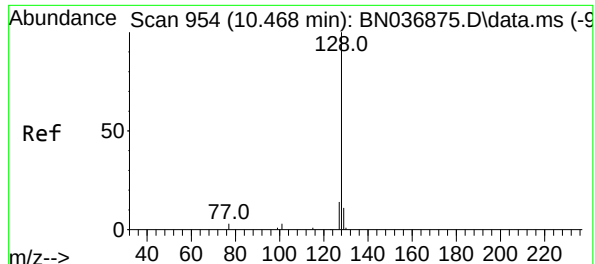
Tgt Ion:	136	Resp:	1439
Ion	Ratio	Lower	Upper
136	100		
137	15.5	13.5	20.3
54	14.1	12.8	19.2
68	10.3	10.1	15.1



#8
Nitrobenzene-d5
Concen: 4.576 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.011 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion:	82	Resp:	7400
Ion	Ratio	Lower	Upper
82	100		
128	30.5	35.5	53.3#
54	74.3	56.2	84.4



#9
Naphthalene

Concen: 4.644 ng

RT: 10.468 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

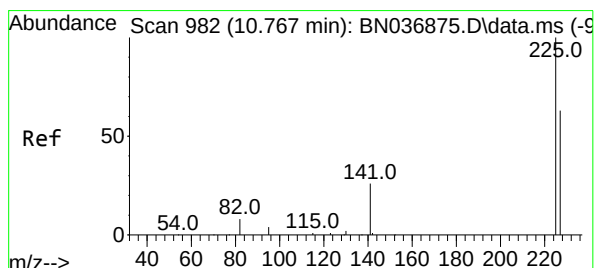
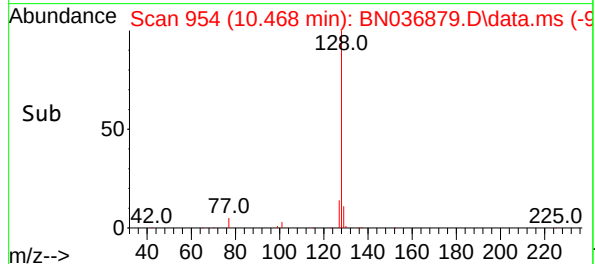
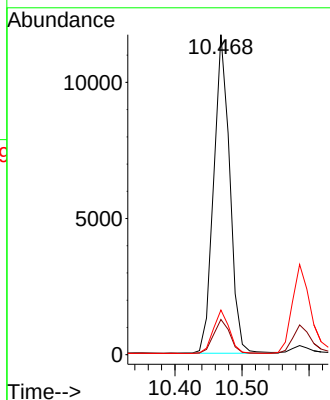
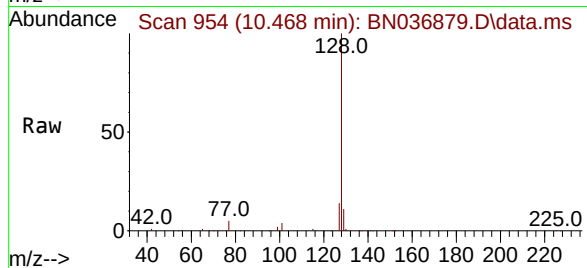
Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion:	128	Resp:	19422
Ion	Ratio	Lower	Upper
128	100		
129	11.0	12.9	19.3#
127	14.0	15.0	22.6#



#10

Hexachlorobutadiene

Concen: 4.432 ng

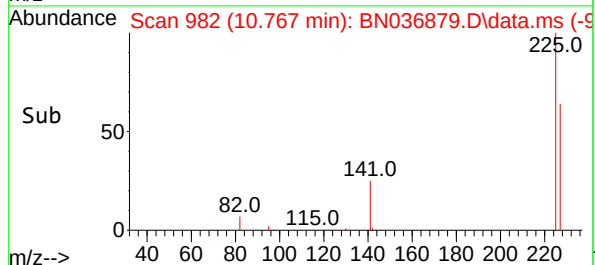
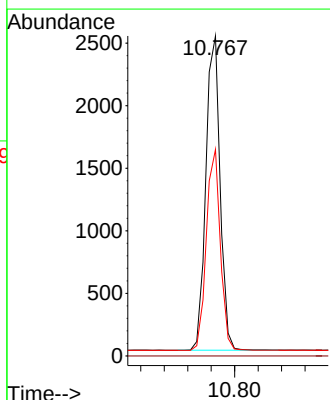
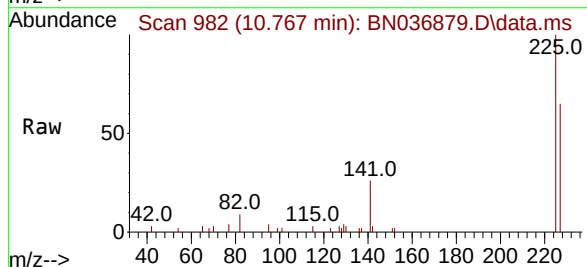
RT: 10.767 min Scan# 982

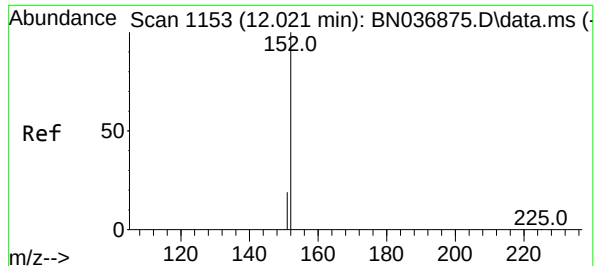
Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Tgt Ion:	225	Resp:	4231
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.8	50.5	75.7

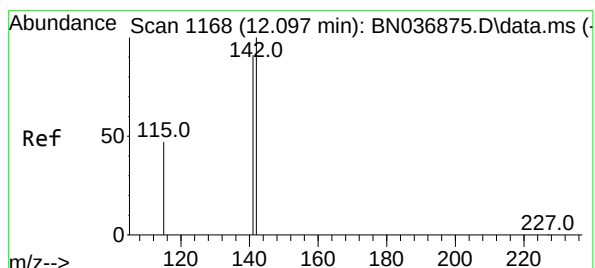
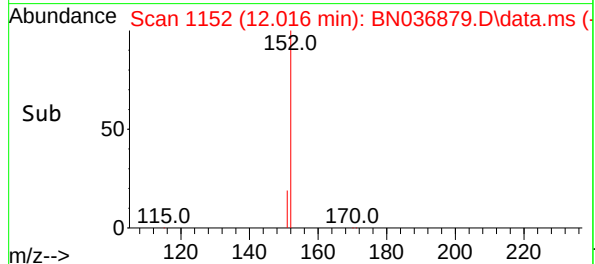
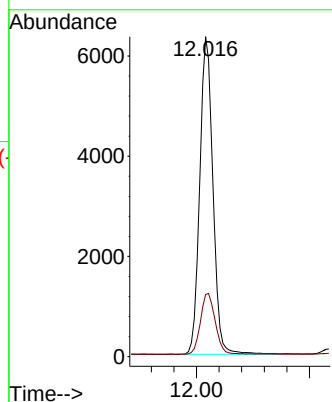
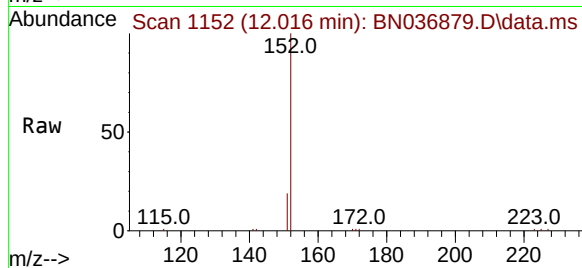




#11
2-Methylnaphthalene-d10
Concen: 4.898 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

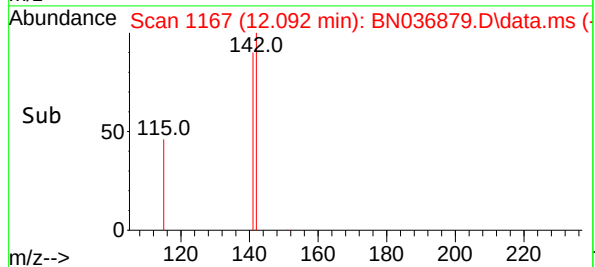
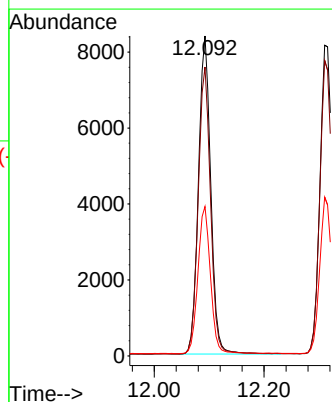
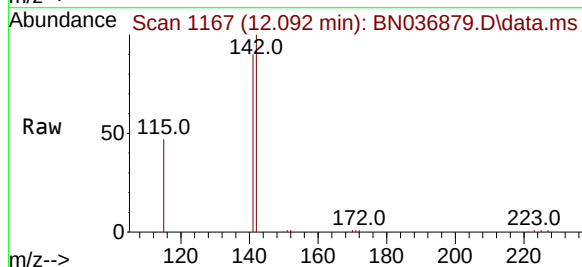
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

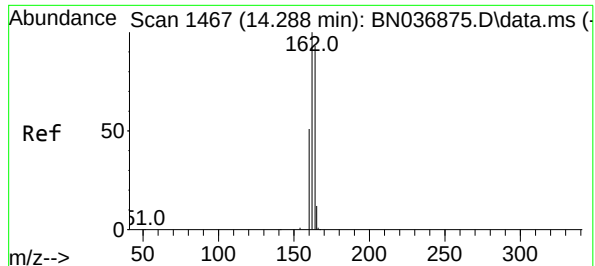
Tgt Ion:152 Resp: 10278
Ion Ratio Lower Upper
152 100
151 21.4 17.8 26.8



#12
2-Methylnaphthalene
Concen: 4.868 ng
RT: 12.092 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion:142 Resp: 13024
Ion Ratio Lower Upper
142 100
141 90.3 73.8 110.8
115 46.7 43.3 64.9

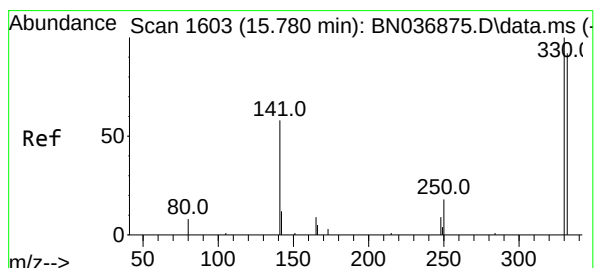
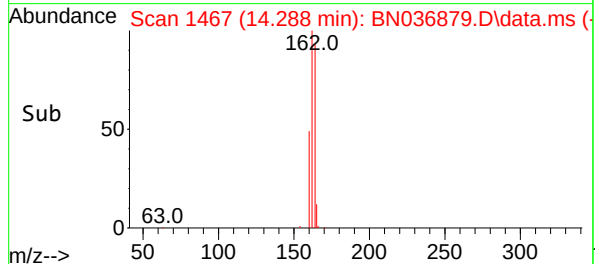
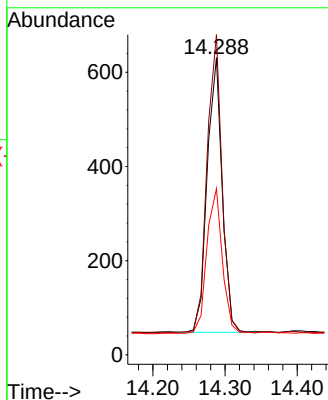
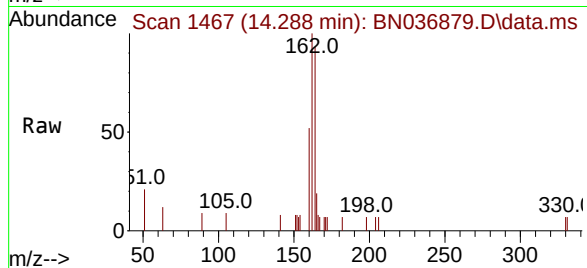




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

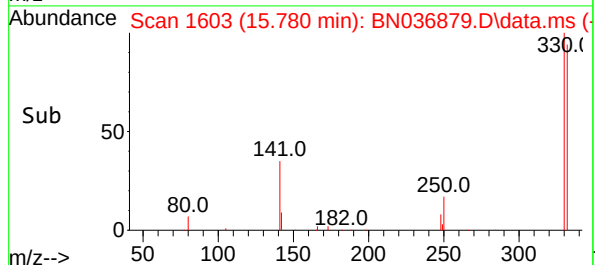
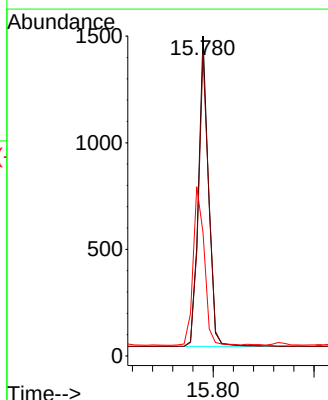
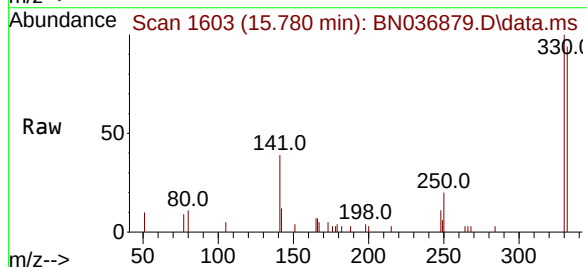
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

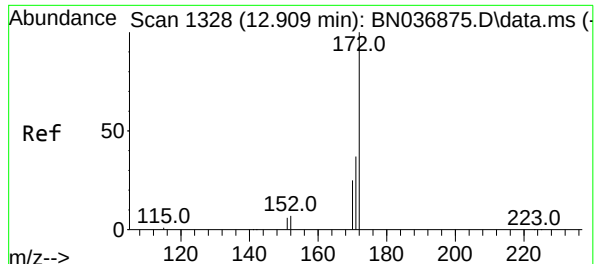
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.8	85.7	128.5
160	55.9	46.9	70.3



#14
2,4,6-Tribromophenol
Concen: 4.936 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.3	87.0	130.6
141	56.8	45.3	67.9





#15

2-Fluorobiphenyl

Concen: 4.735 ng

RT: 12.904 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

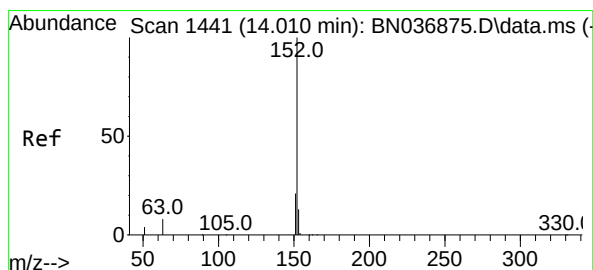
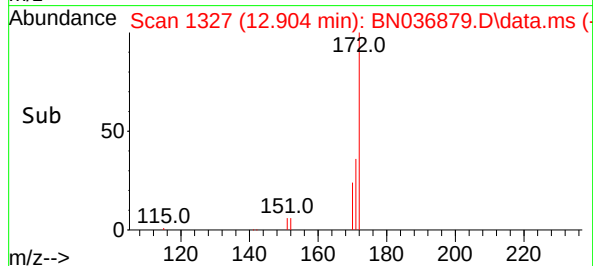
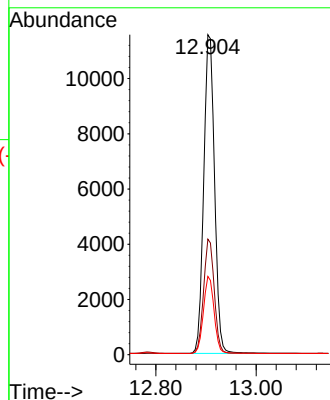
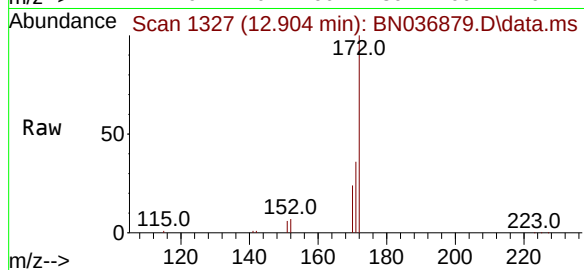
Tgt Ion:172 Resp: 19383

Ion Ratio Lower Upper

172 100

171 36.1 32.7 49.1

170 24.5 23.3 34.9



#16

Acenaphthylene

Concen: 5.008 ng

RT: 13.999 min Scan# 1440

Delta R.T. -0.011 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

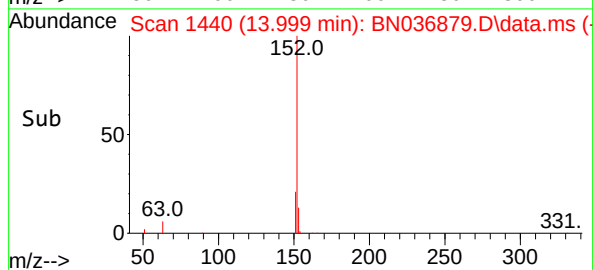
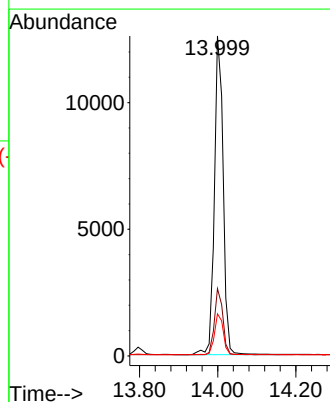
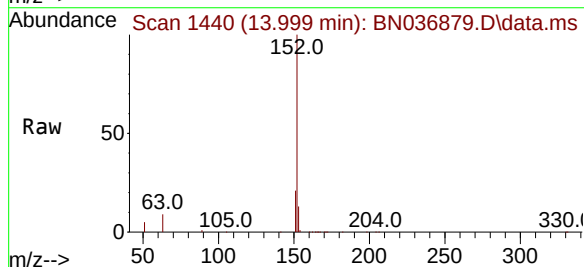
Tgt Ion:152 Resp: 19678

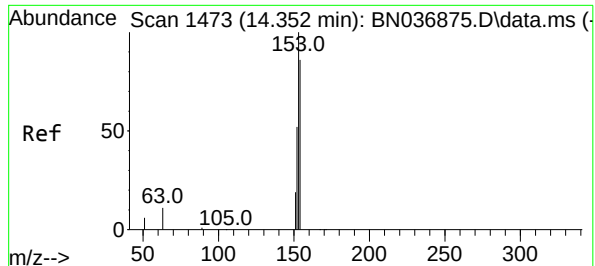
Ion Ratio Lower Upper

152 100

151 19.9 16.4 24.6

153 12.9 10.3 15.5

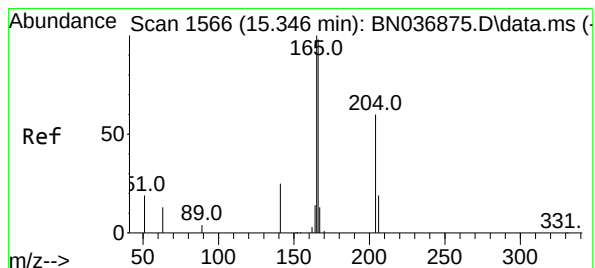
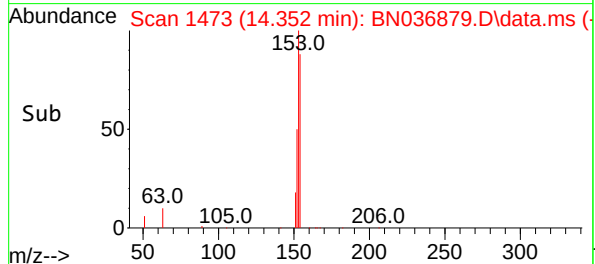
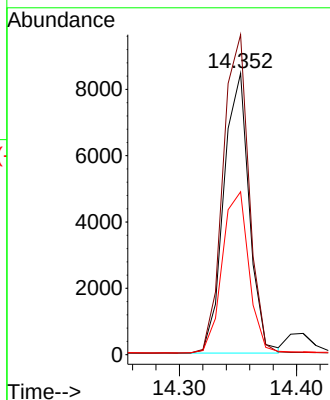
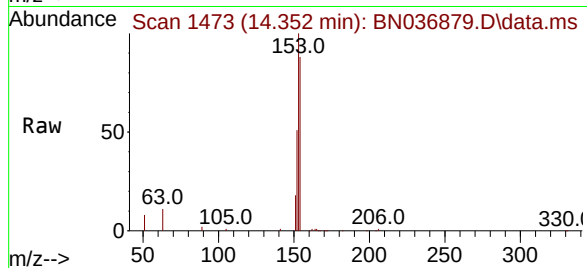




#17
Acenaphthene
Concen: 4.978 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

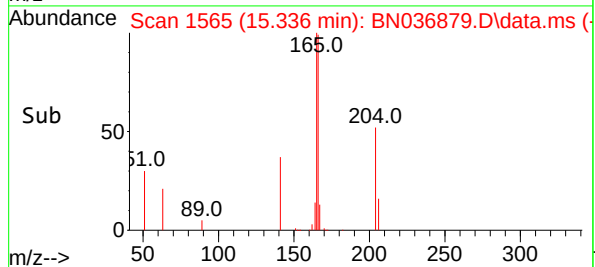
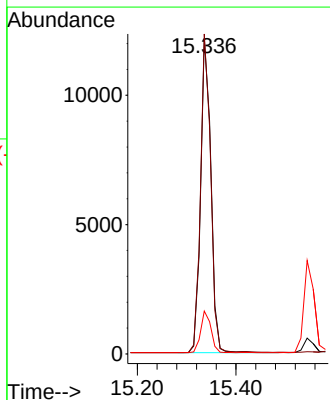
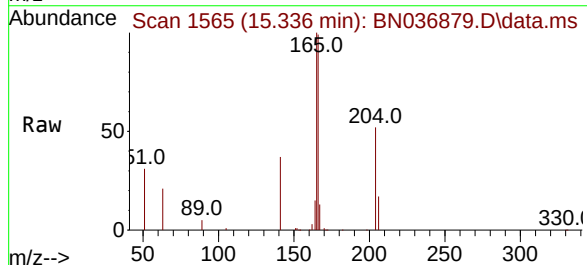
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

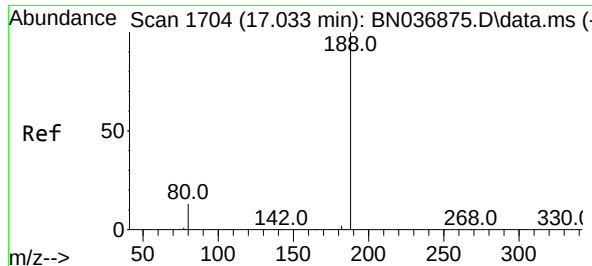
Tgt Ion:154 Resp: 12748
Ion Ratio Lower Upper
154 100
153 115.6 97.8 146.6
152 60.8 52.7 79.1



#18
Fluorene
Concen: 4.959 ng
RT: 15.336 min Scan# 1565
Delta R.T. -0.011 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion:166 Resp: 17523
Ion Ratio Lower Upper
166 100
165 99.7 83.2 124.8
167 13.3 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.033 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

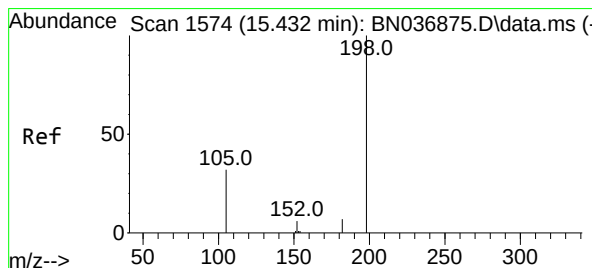
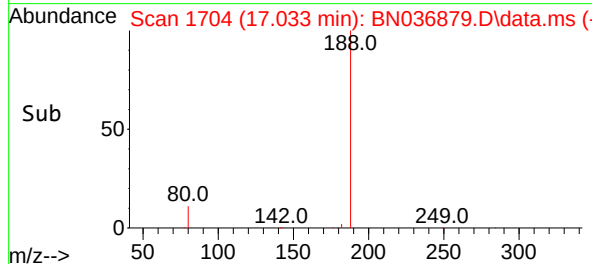
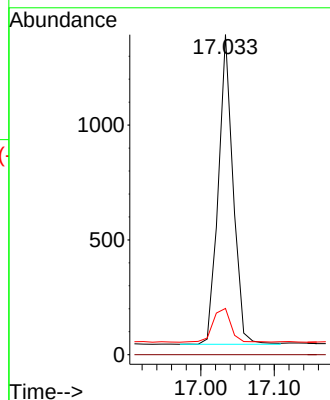
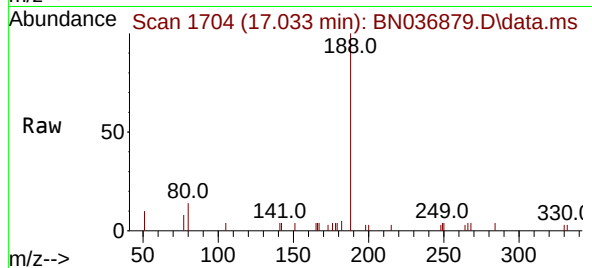
Tgt Ion:188 Resp: 1883

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.4 13.9 20.9



#20

4,6-Dinitro-2-methylphenol

Concen: 5.472 ng

RT: 15.421 min Scan# 1573

Delta R.T. -0.011 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

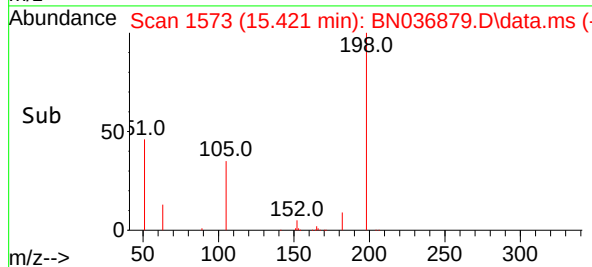
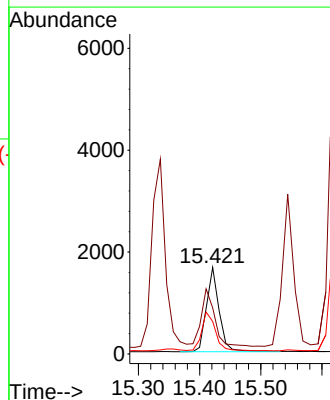
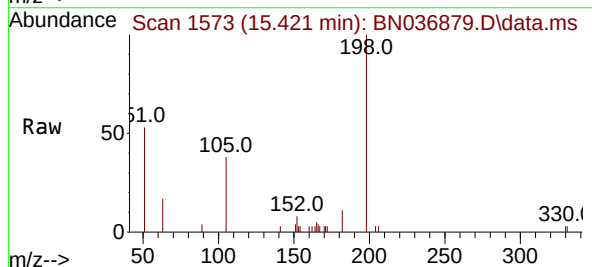
Tgt Ion:198 Resp: 2409

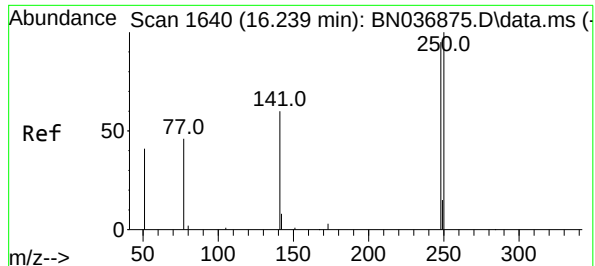
Ion Ratio Lower Upper

198 100

51 53.3 107.6 161.4#

105 37.6 55.2 82.8#

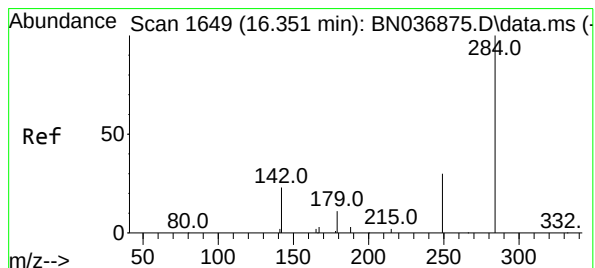
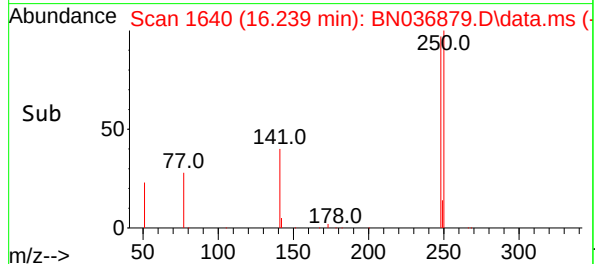
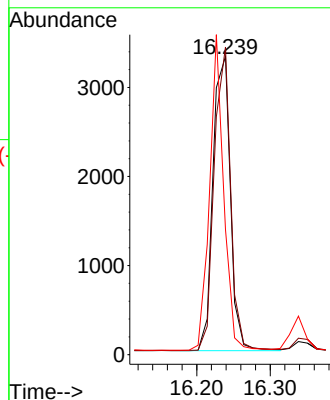
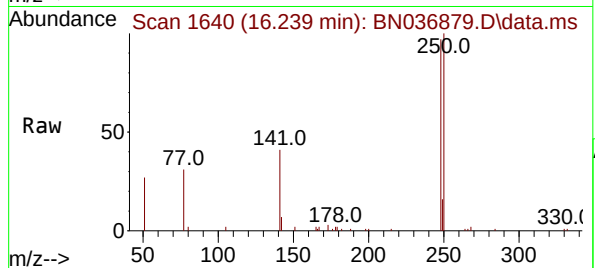




#21
4-Bromophenyl-phenylether
Concen: 4.787 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

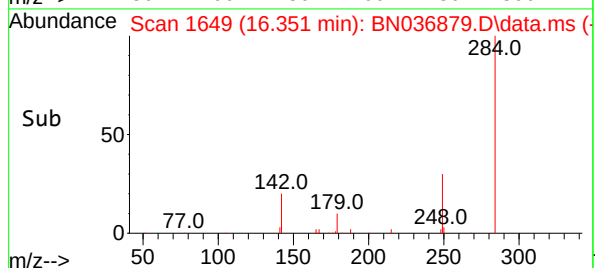
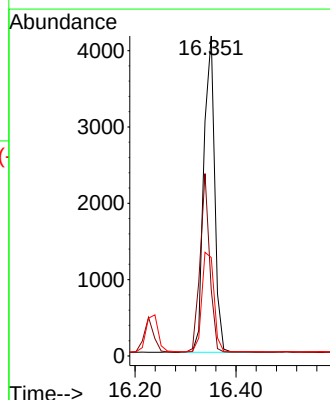
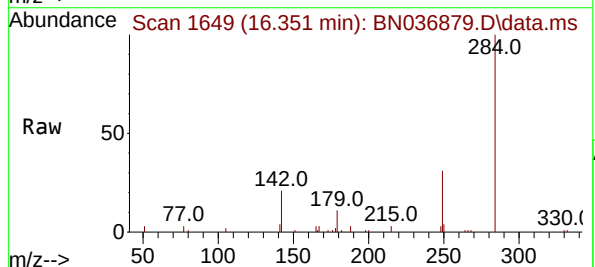
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

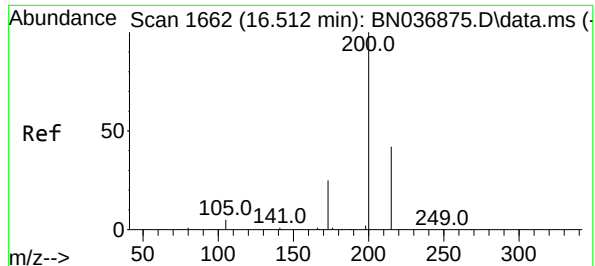
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.2	83.5	125.3
141	42.0	55.3	82.9



#22
Hexachlorobenzene
Concen: 4.578 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.3	37.7	56.5
249	35.1	29.0	43.6





#23

Atrazine

Concen: 4.603 ng

RT: 16.500 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

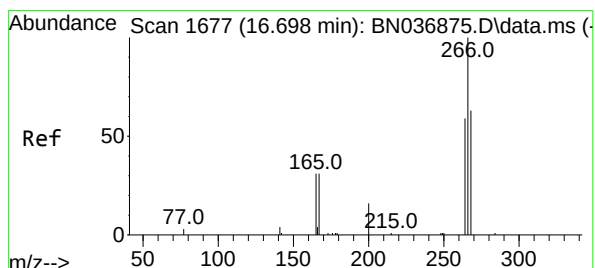
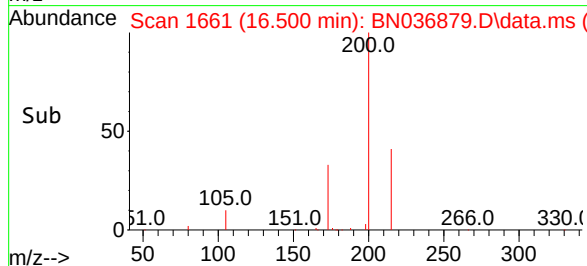
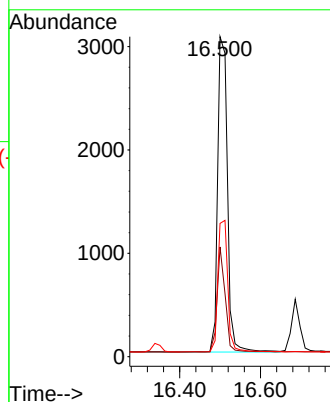
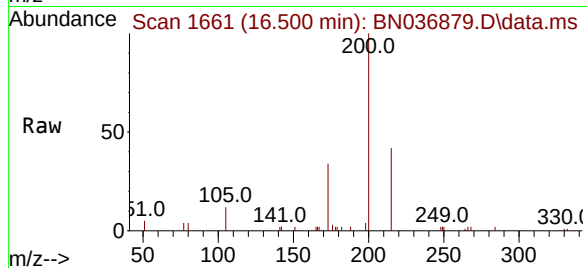
Tgt Ion:200 Resp: 5134

Ion Ratio Lower Upper

200 100

173 34.3 28.6 43.0

215 41.6 40.5 60.7



#24

Pentachlorophenol

Concen: 5.010 ng

RT: 16.686 min Scan# 1676

Delta R.T. -0.012 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

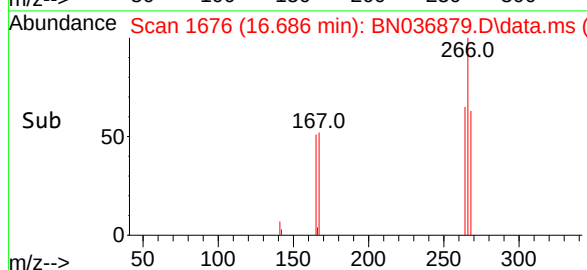
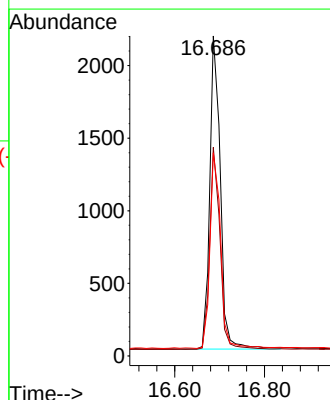
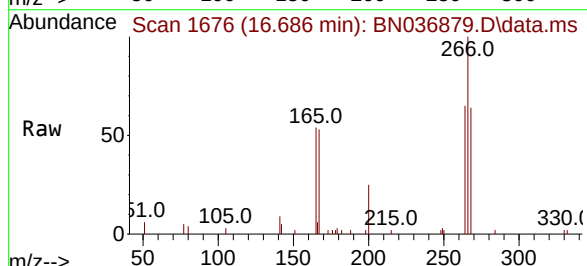
Tgt Ion:266 Resp: 3504

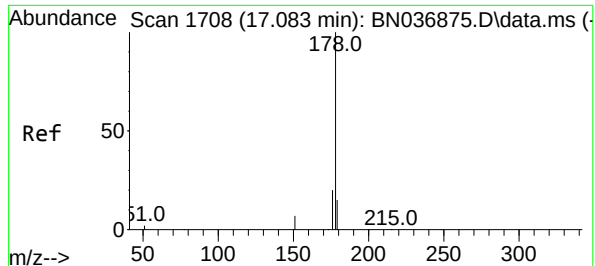
Ion Ratio Lower Upper

266 100

264 63.1 44.6 66.8

268 63.3 51.8 77.6

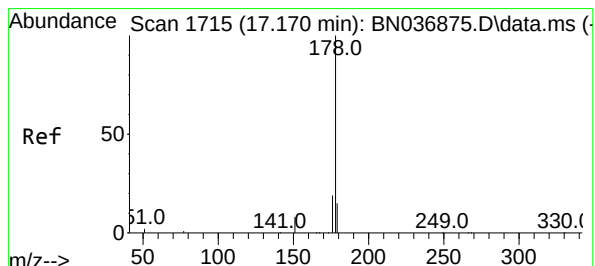
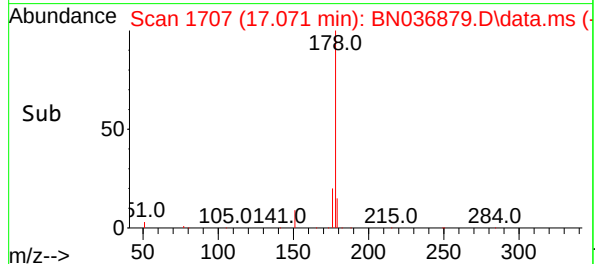
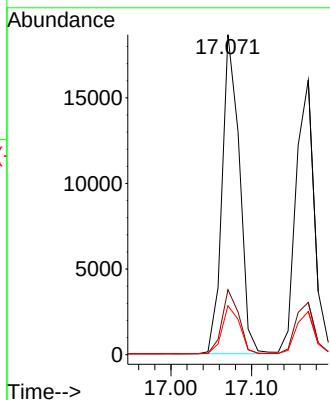
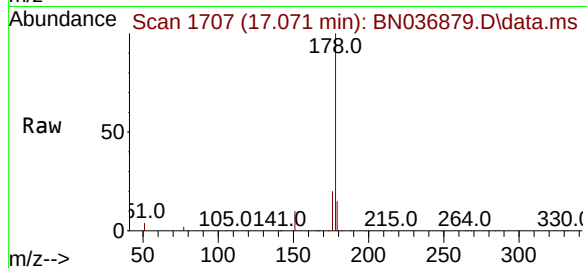




#25
Phenanthrene
Concen: 4.922 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

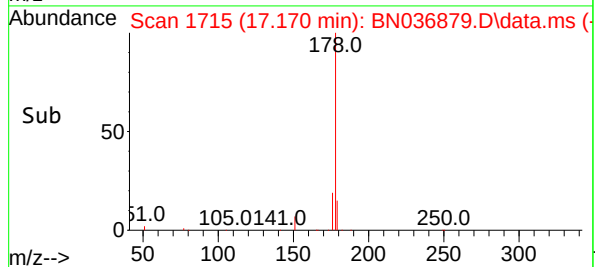
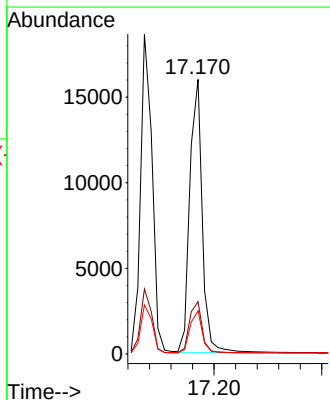
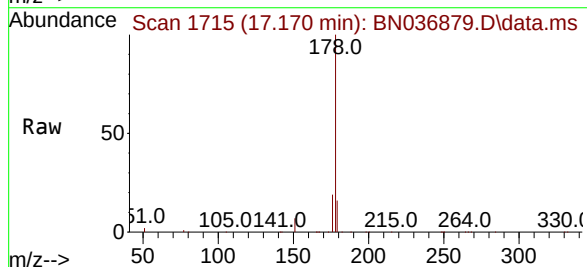
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

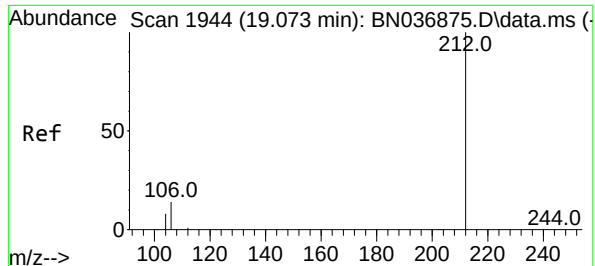
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.6	25.0
179	15.2	12.8	19.2



#26
Anthracene
Concen: 5.133 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.6
179	15.3	12.6	18.8





#27

Fluoranthene-d10

Concen: 5.107 ng

RT: 19.073 min Scan# 1944

Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

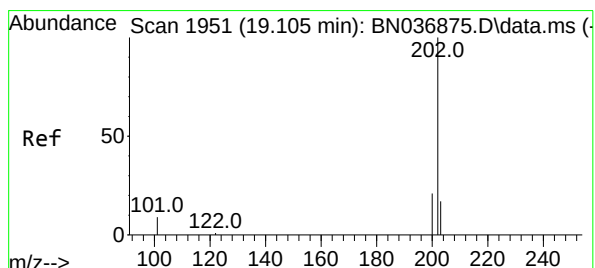
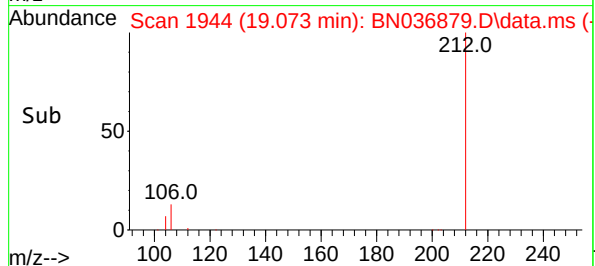
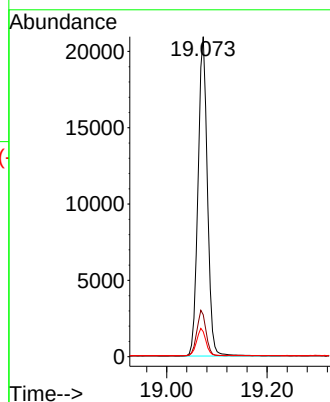
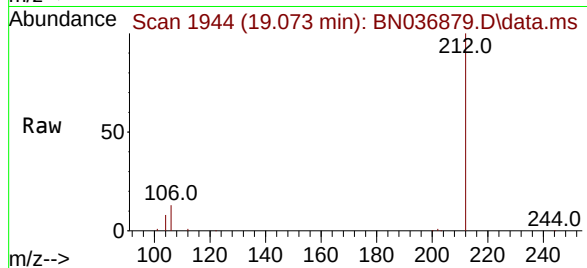
Tgt Ion:212 Resp: 27011

Ion Ratio Lower Upper

212 100

106 14.1 11.2 16.8

104 8.5 7.5 11.3



#28

Fluoranthene

Concen: 5.237 ng

RT: 19.101 min Scan# 1950

Delta R.T. -0.005 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

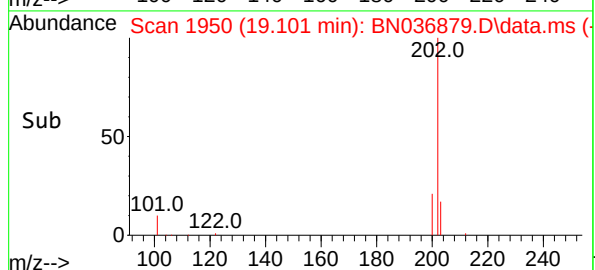
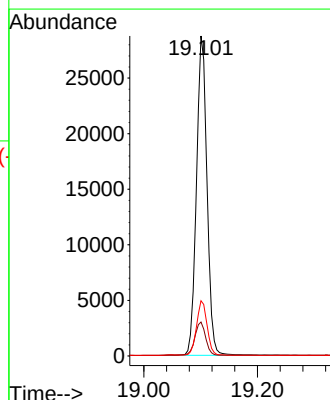
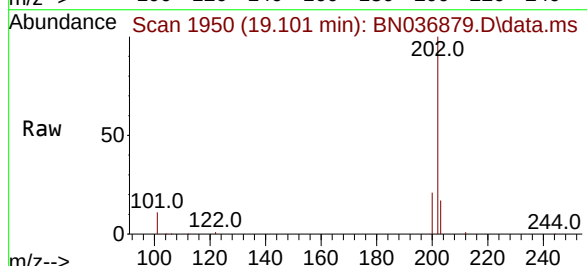
Tgt Ion:202 Resp: 36952

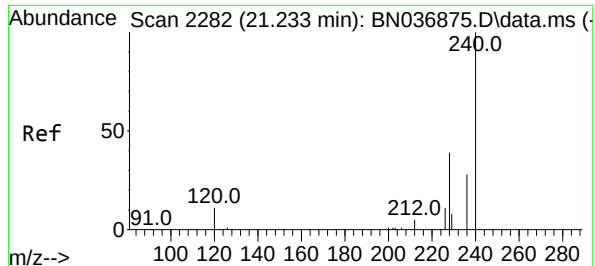
Ion Ratio Lower Upper

202 100

101 10.8 8.5 12.7

203 17.0 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

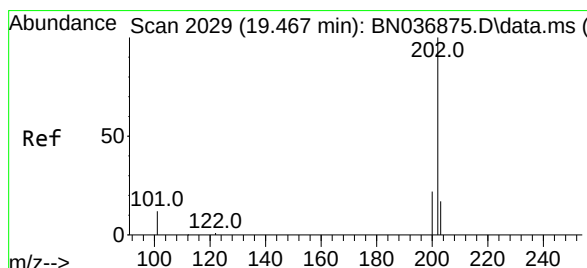
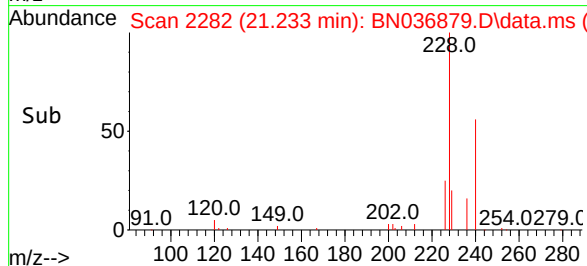
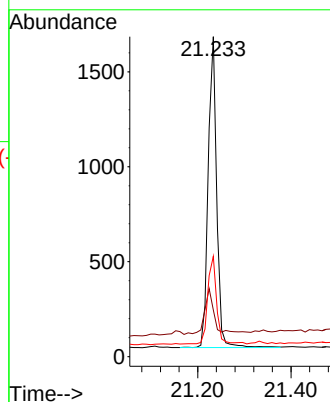
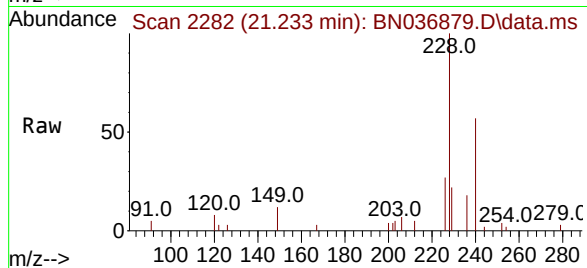
Tgt Ion:240 Resp: 2075

Ion Ratio Lower Upper

240 100

120 14.6 15.8 23.6#

236 31.3 25.8 38.8



#30

Pyrene

Concen: 4.766 ng

RT: 19.468 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

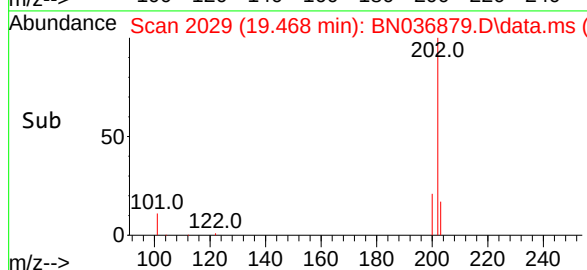
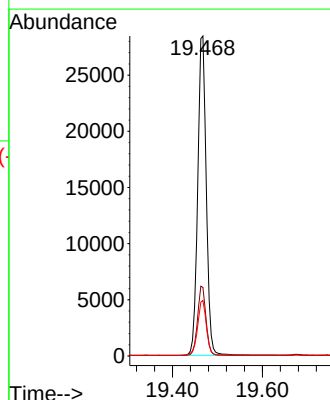
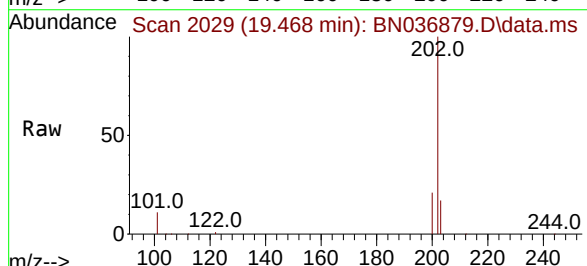
Tgt Ion:202 Resp: 37628

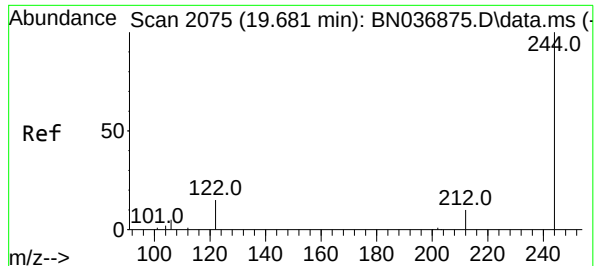
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

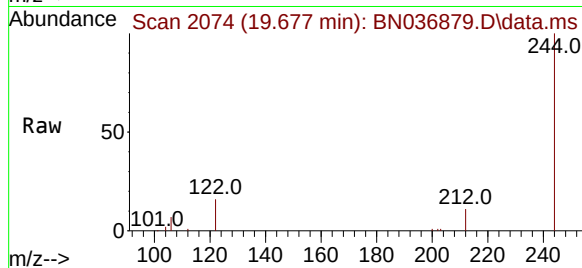
203 17.7 14.5 21.7



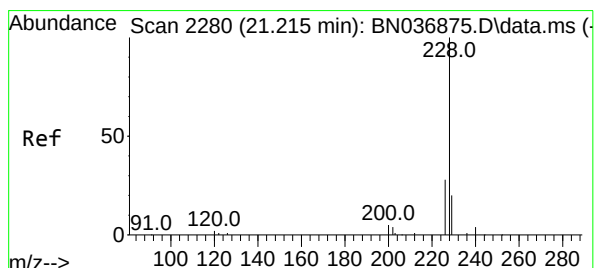
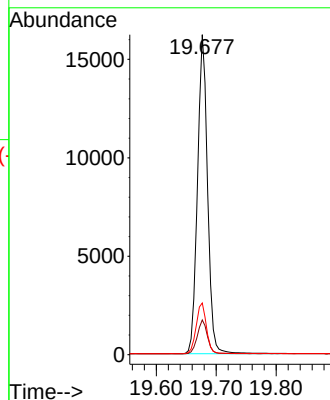
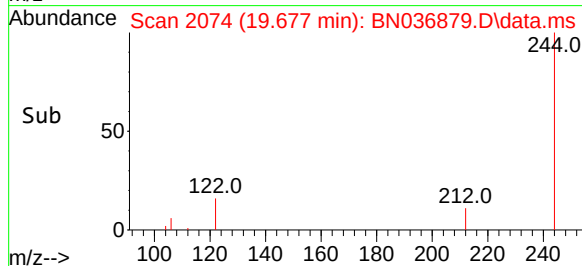


#31
Terphenyl-d14
Concen: 4.771 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

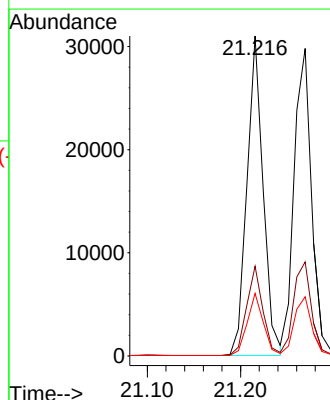
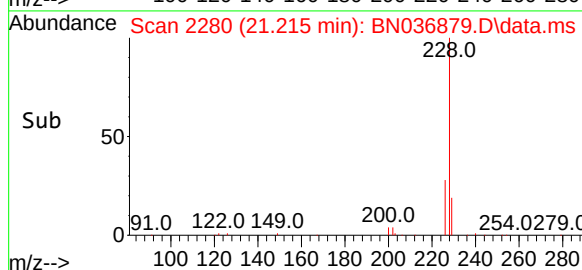
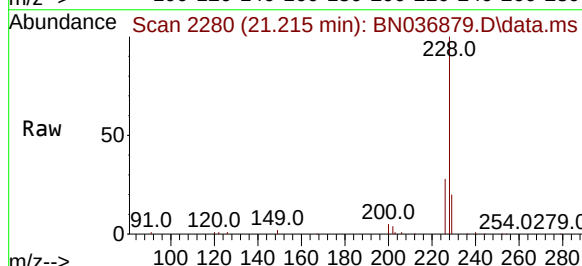


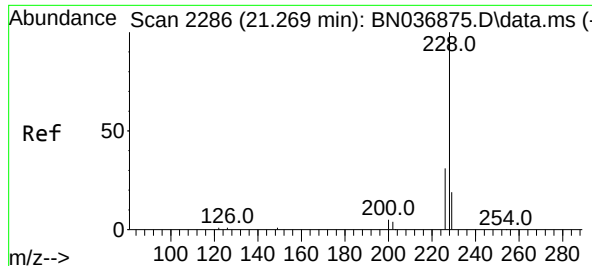
Tgt Ion:244 Resp: 18930
Ion Ratio Lower Upper
244 100
212 10.9 11.6 17.4#
122 16.2 14.9 22.3



#32
Benzo(a)anthracene
Concen: 5.123 ng
RT: 21.215 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

Tgt Ion:228 Resp: 37427
Ion Ratio Lower Upper
228 100
226 28.0 24.5 36.7
229 19.6 17.7 26.5





#33

Chrysene

Concen: 4.850 ng

RT: 21.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

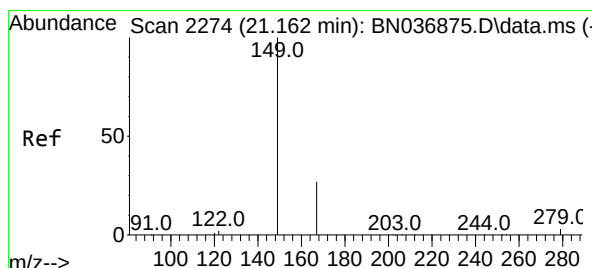
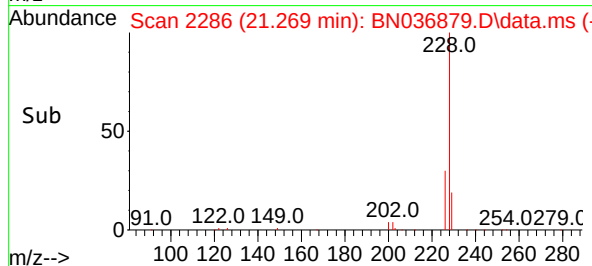
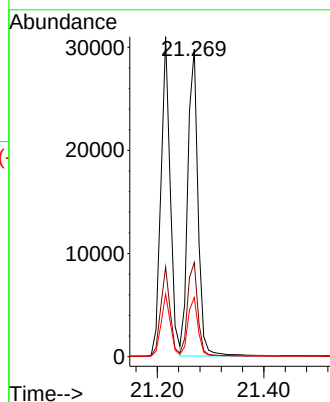
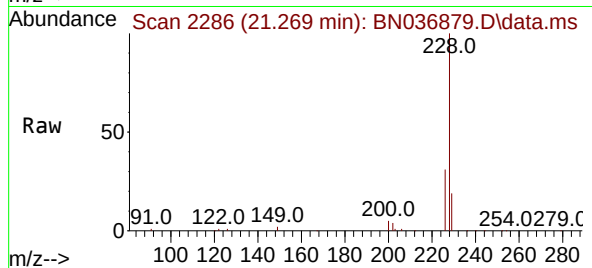
Tgt Ion:228 Resp: 39358

Ion Ratio Lower Upper

228 100

226 30.6 26.1 39.1

229 19.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.445 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

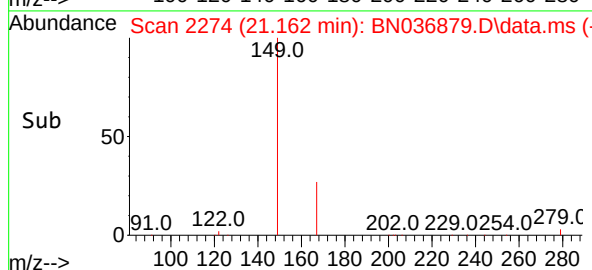
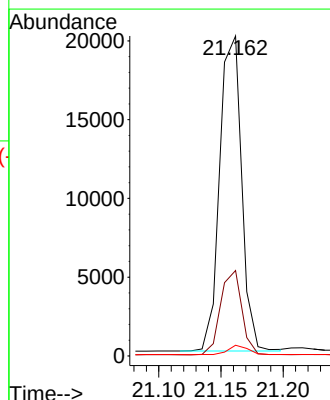
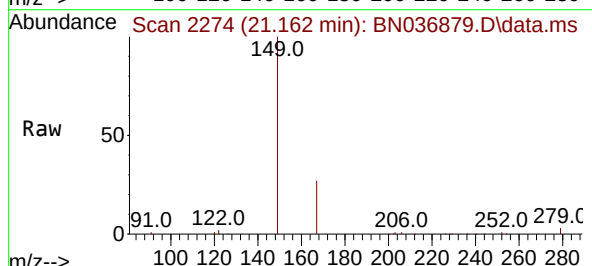
Tgt Ion:149 Resp: 24571

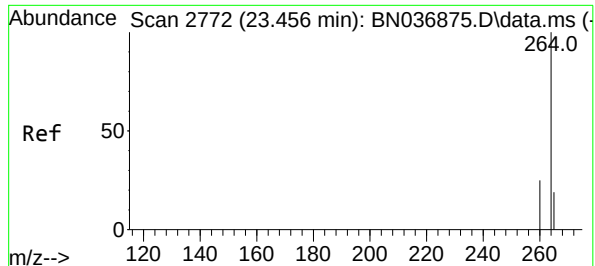
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.4

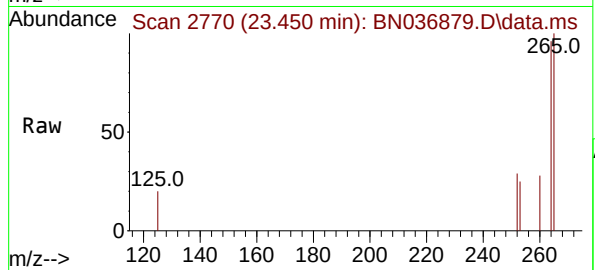
279 2.7 3.6 5.4#



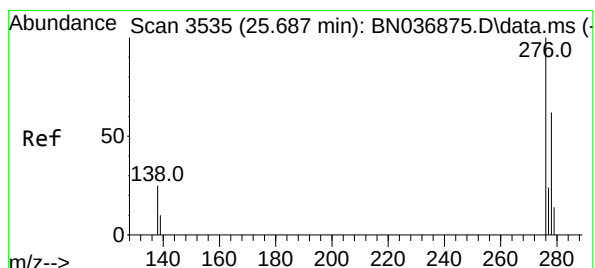
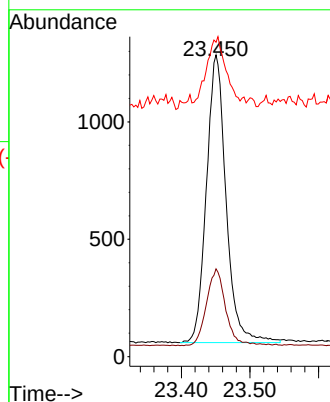
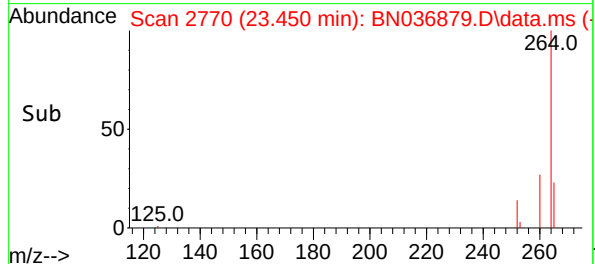


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.450 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42

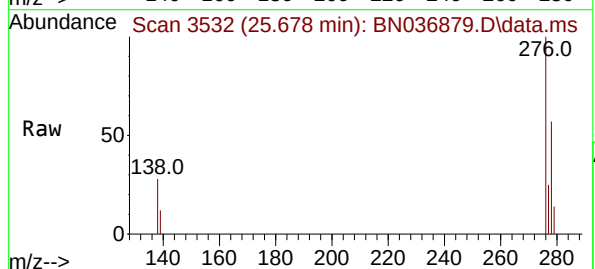
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



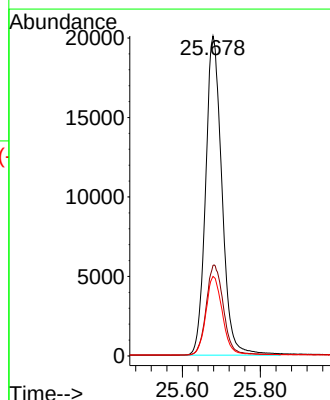
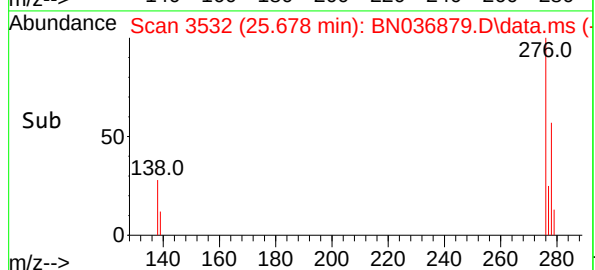
Tgt Ion:264 Resp: 2437
Ion Ratio Lower Upper
264 100
260 29.1 22.9 34.3
265 104.2 88.6 132.8

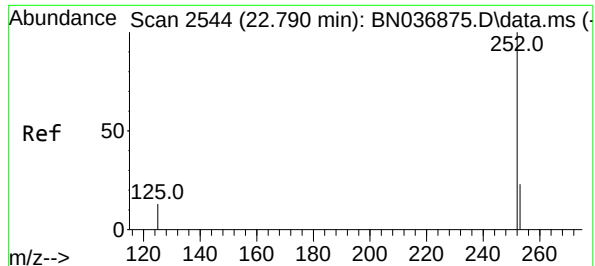


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.031 ng
RT: 25.678 min Scan# 3532
Delta R.T. -0.009 min
Lab File: BN036879.D
Acq: 11 Apr 2025 15:42



Tgt Ion:276 Resp: 58462
Ion Ratio Lower Upper
276 100
138 29.8 21.0 31.6
277 24.7 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 5.152 ng

RT: 22.784 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

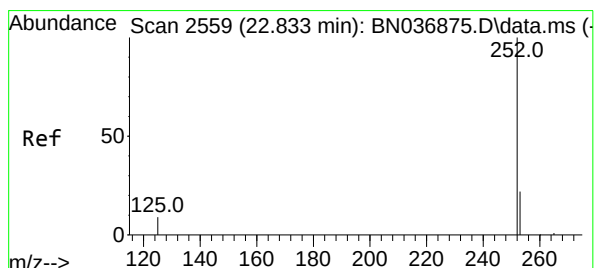
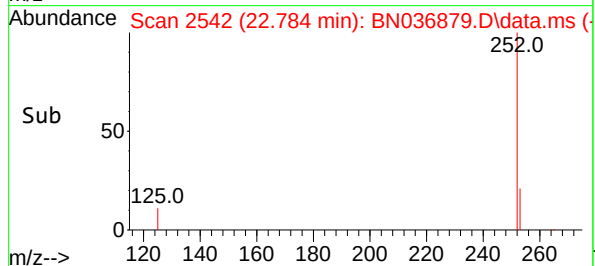
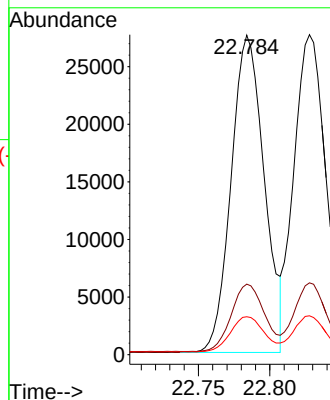
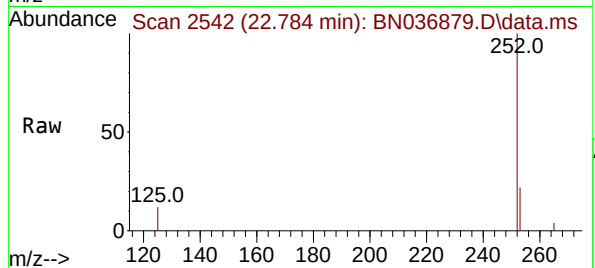
Tgt Ion:252 Resp: 44349

Ion Ratio Lower Upper

252 100

253 22.1 27.0 40.6#

125 11.9 17.7 26.5#



#38

Benzo(k)fluoranthene

Concen: 5.084 ng

RT: 22.828 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

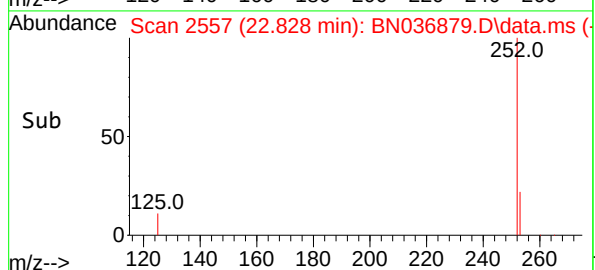
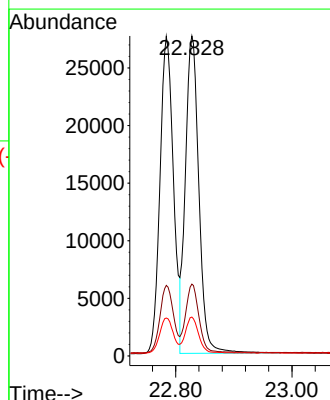
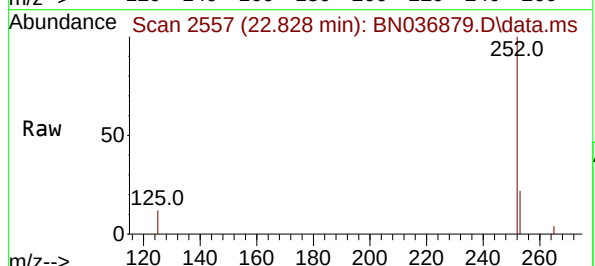
Tgt Ion:252 Resp: 44237

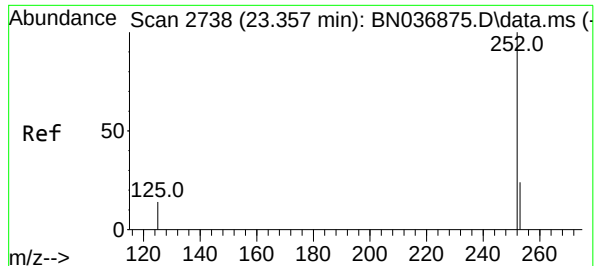
Ion Ratio Lower Upper

252 100

253 22.5 26.7 40.1#

125 12.2 16.9 25.3#





#39

Benzo(a)pyrene

Concen: 5.166 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

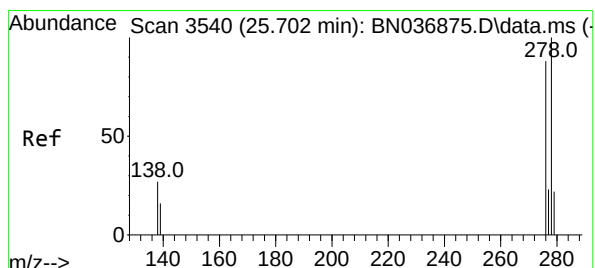
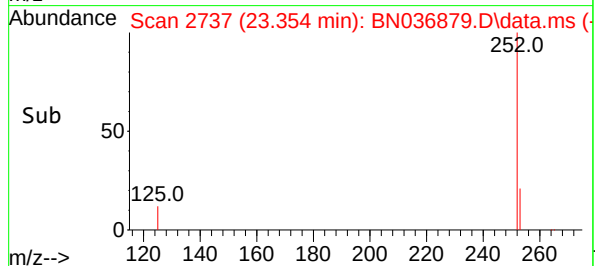
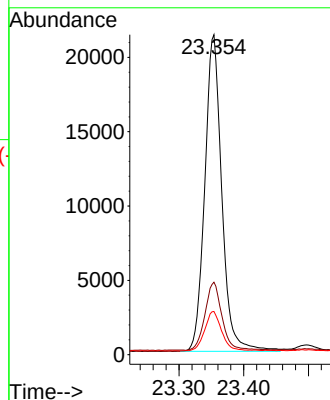
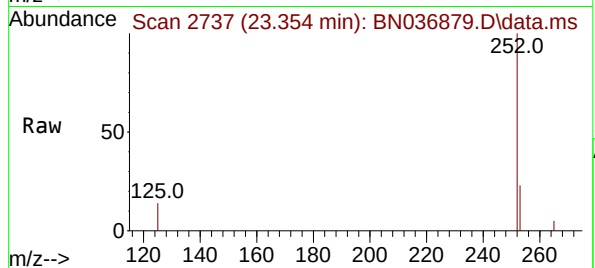
Tgt Ion:252 Resp: 38961

Ion Ratio Lower Upper

252 100

253 22.6 31.5 47.3#

125 13.5 22.6 34.0#



#40

Dibenzo(a,h)anthracene

Concen: 5.138 ng

RT: 25.693 min Scan# 3537

Delta R.T. -0.009 min

Lab File: BN036879.D

Acq: 11 Apr 2025 15:42

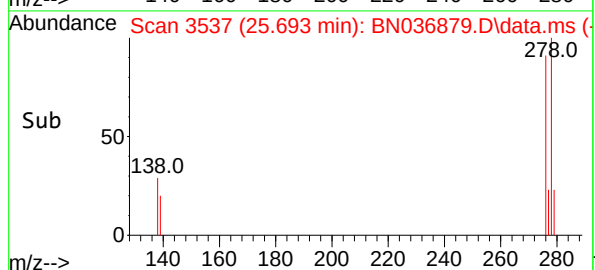
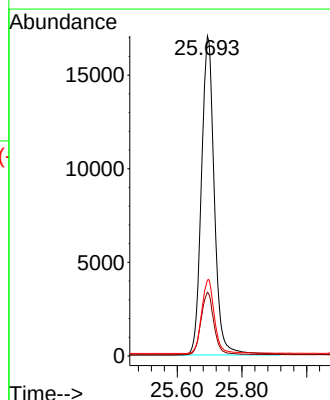
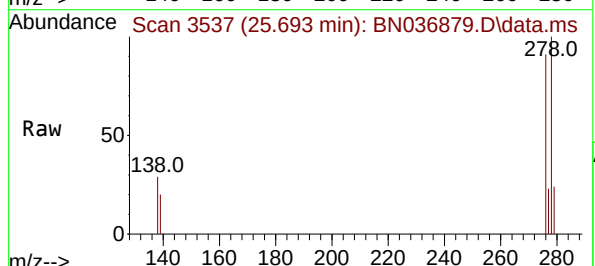
Tgt Ion:278 Resp: 47274

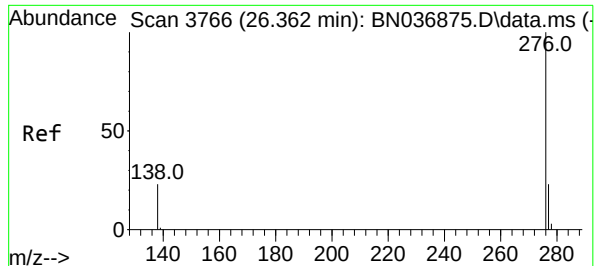
Ion Ratio Lower Upper

278 100

139 19.9 17.6 26.4

279 23.7 26.7 40.1#





#41

Benzo(g,h,i)perylene

Concen: 4.881 ng

RT: 26.362 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036879.D

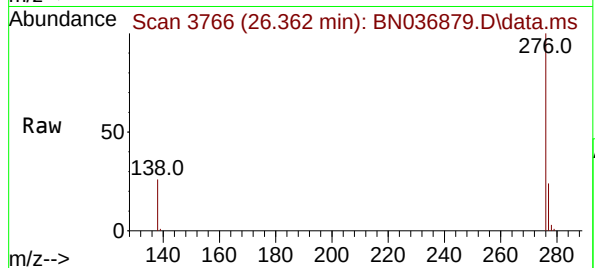
Acq: 11 Apr 2025 15:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



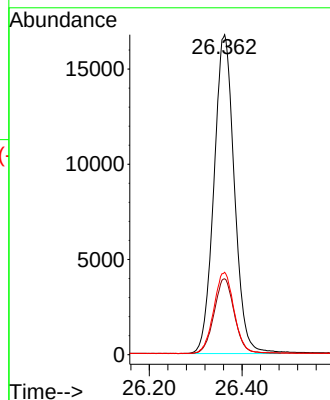
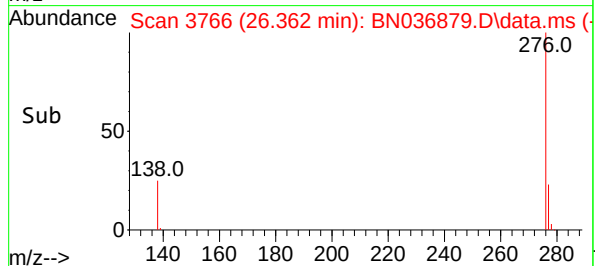
Tgt Ion:276 Resp: 51130

Ion Ratio Lower Upper

276 100

277 23.7 21.8 32.8

138 25.8 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036880.D
 Acq On : 11 Apr 2025 16:18
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

Quant Time: Apr 11 16:41:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

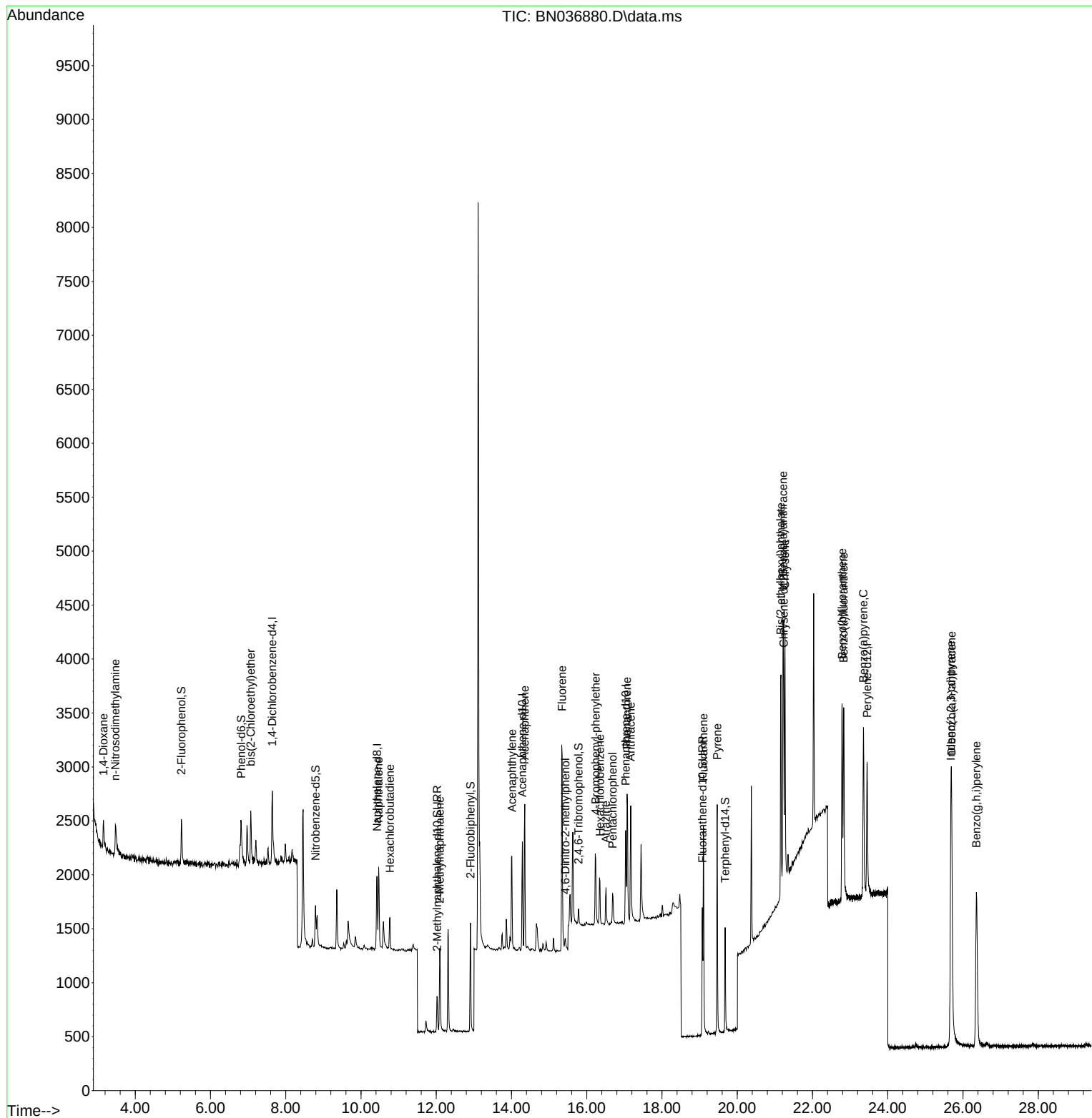
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	356	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	934	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	562	0.400	ng	0.00
19) Phenanthrene-d10	17.034	188	1227	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1378	0.400	ng	0.00
35) Perylene-d12	23.450	264	1678	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	330	0.394	ng	0.00
5) Phenol-d6	6.817	99	364	0.340	ng	0.00
8) Nitrobenzene-d5	8.792	82	372	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	516	0.380	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	92	0.340	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	927	0.343	ng	0.00
27) Fluoranthene-d10	19.073	212	1345	0.389	ng	0.00
31) Terphenyl-d14	19.677	244	1023	0.391	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	176m	0.426	ng	
3) n-Nitrosodimethylamine	3.473	42	416	0.455	ng	# 100
6) bis(2-Chloroethyl)ether	7.070	93	423	0.403	ng	89
9) Naphthalene	10.468	128	1042	0.388	ng	95
10) Hexachlorobutadiene	10.767	225	245	0.402	ng	# 98
12) 2-Methylnaphthalene	12.092	142	620	0.358	ng	95
16) Acenaphthylene	14.010	152	1105	0.423	ng	98
17) Acenaphthene	14.352	154	664	0.391	ng	95
18) Fluorene	15.346	166	914	0.390	ng	96
20) 4,6-Dinitro-2-methylph...	15.432	198	95	0.327	ng	# 46
21) 4-Bromophenyl-phenylether	16.239	248	273	0.371	ng	98
22) Hexachlorobenzene	16.351	284	325	0.374	ng	92
23) Atrazine	16.512	200	322	0.448	ng	93
24) Pentachlorophenol	16.686	266	179	0.393	ng	93
25) Phenanthrene	17.071	178	1449	0.394	ng	100
26) Anthracene	17.170	178	1362	0.415	ng	97
28) Fluoranthene	19.101	202	1833	0.396	ng	99
30) Pyrene	19.468	202	1936	0.372	ng	98
32) Benzo(a)anthracene	21.216	228	1916	0.394	ng	99
33) Chrysene	21.269	228	2205	0.411	ng	99
34) Bis(2-ethylhexyl)phtha...	21.153	149	1487	0.412	ng	99
36) Indeno(1,2,3-cd)pyrene	25.675	276	3402	0.425	ng	98
37) Benzo(b)fluoranthene	22.787	252	2332	0.392	ng	96
38) Benzo(k)fluoranthene	22.828	252	2571	0.428	ng	96
39) Benzo(a)pyrene	23.354	252	2267	0.434	ng	96
40) Dibenzo(a,h)anthracene	25.699	278	2690	0.423	ng	96
41) Benzo(g,h,i)perylene	26.357	276	2966	0.413	ng	98

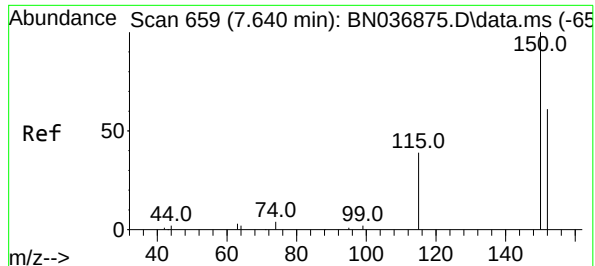
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036880.D
Acq On : 11 Apr 2025 16:18
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN041125

Quant Time: Apr 11 16:41:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

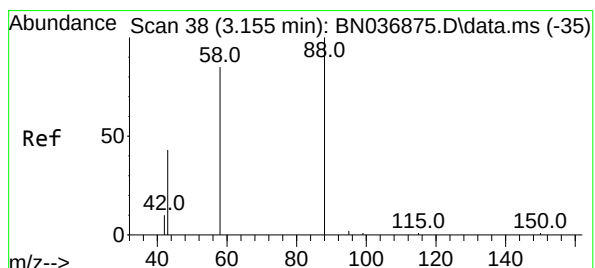
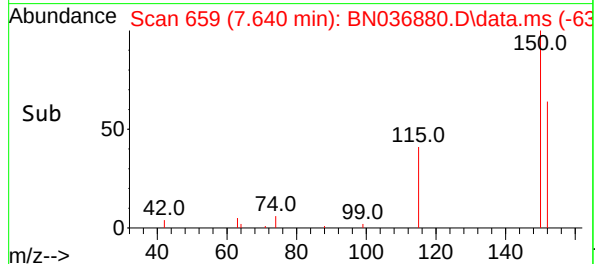
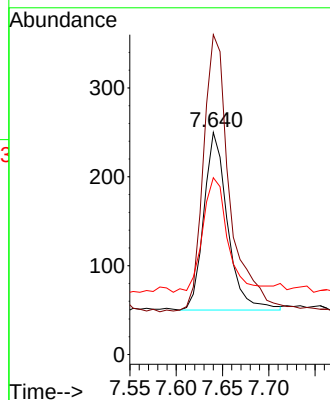
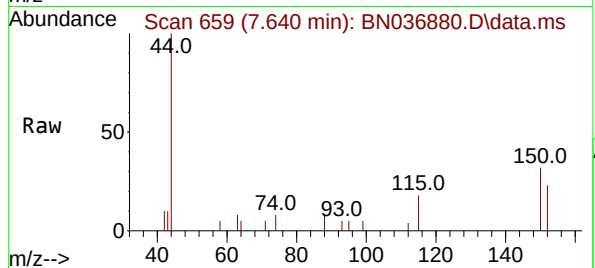




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

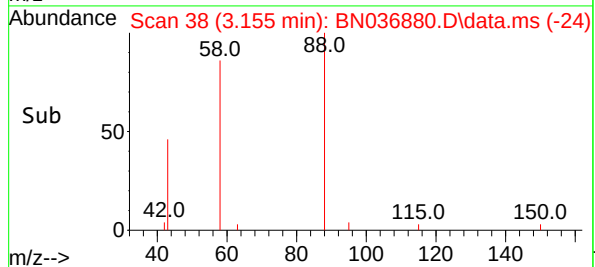
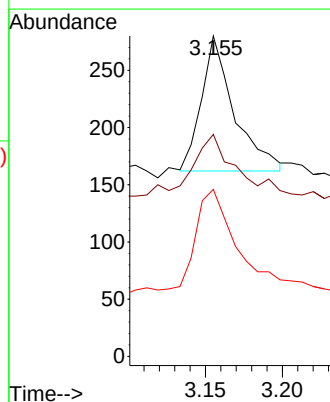
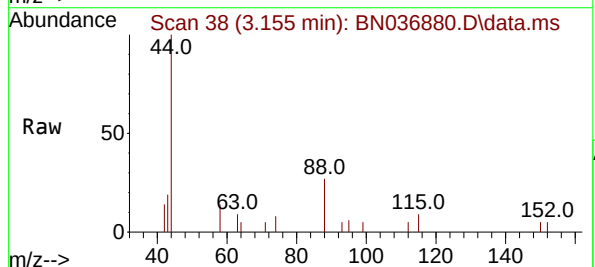
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

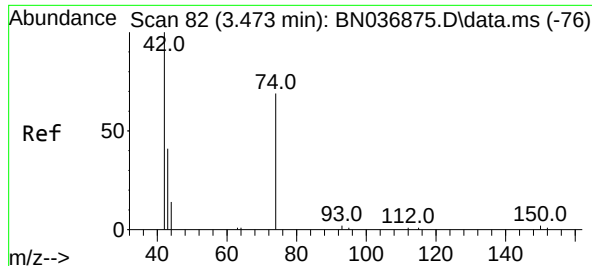
Tgt Ion: 152 Resp: 356
Ion Ratio Lower Upper
152 100
150 144.0 123.0 184.6
115 79.6 60.1 90.1



#2
1,4-Dioxane
Concen: 0.426 ng m
RT: 3.155 min Scan# 38
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion: 88 Resp: 176
Ion Ratio Lower Upper
88 100
43 61.4 39.2 58.8#
58 96.6 63.5 95.3#

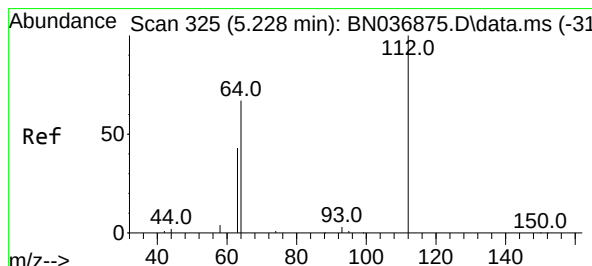
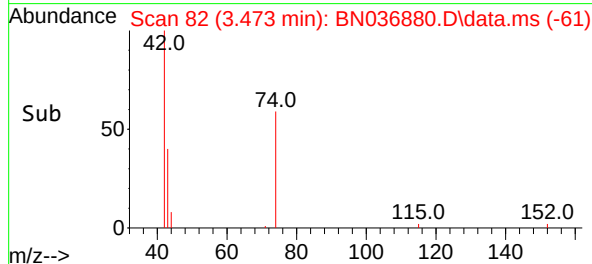
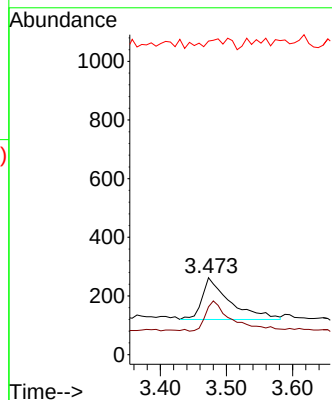
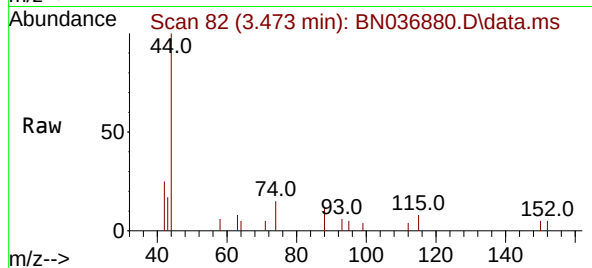




#3
n-Nitrosodimethylamine
Concen: 0.455 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

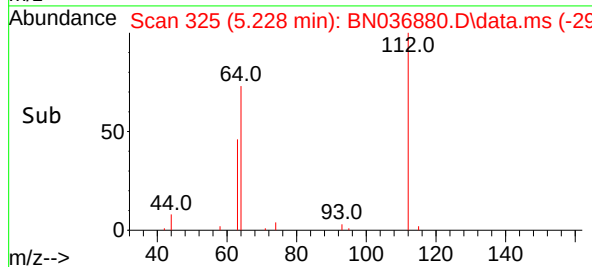
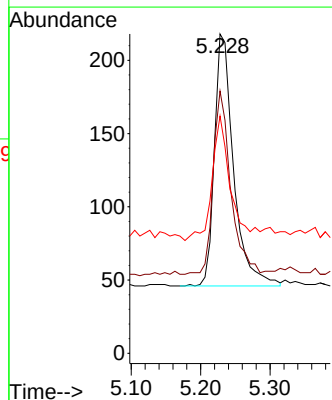
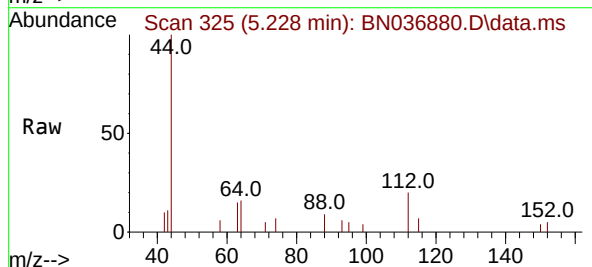
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

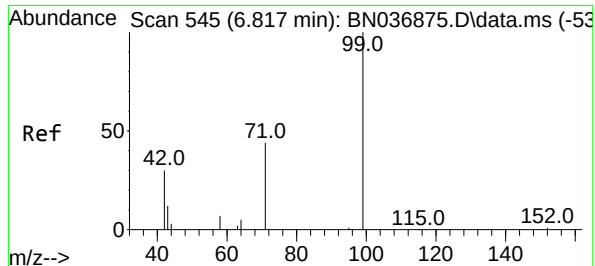
Tgt Ion: 42 Resp: 416
Ion Ratio Lower Upper
42 100
74 68.0 54.6 81.8
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion: 112 Resp: 330
Ion Ratio Lower Upper
112 100
64 67.0 54.0 81.0
63 47.3 35.1 52.7

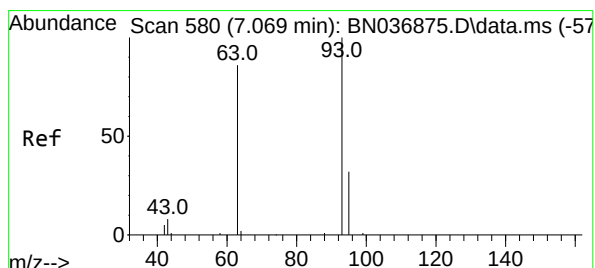
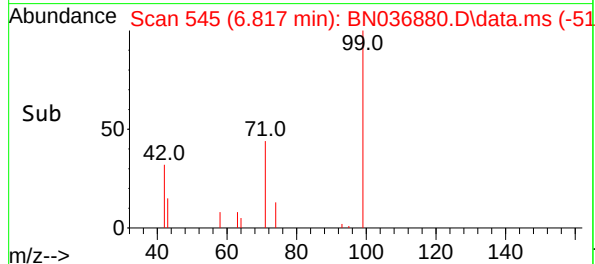
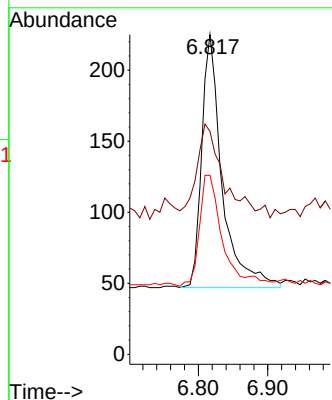
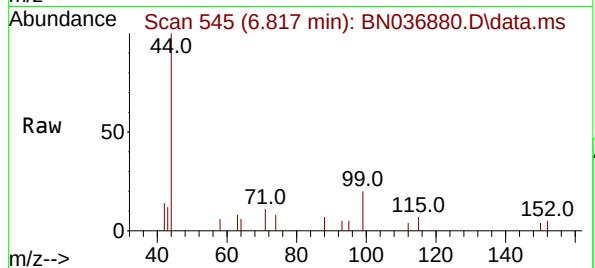




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

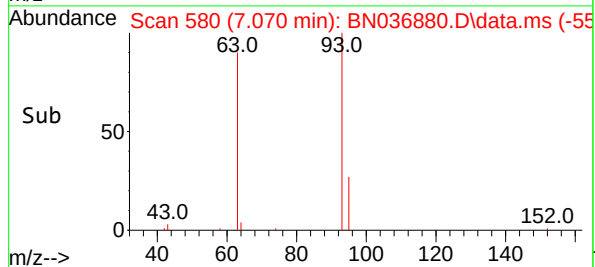
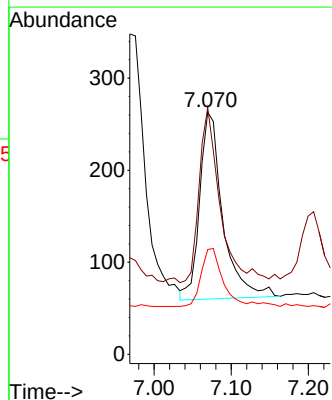
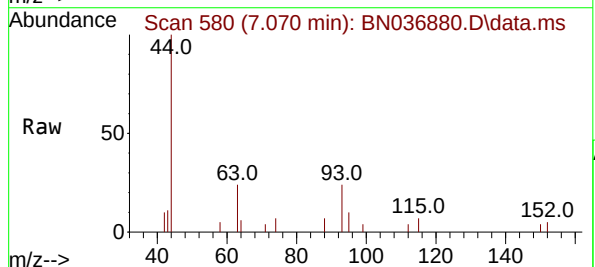
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

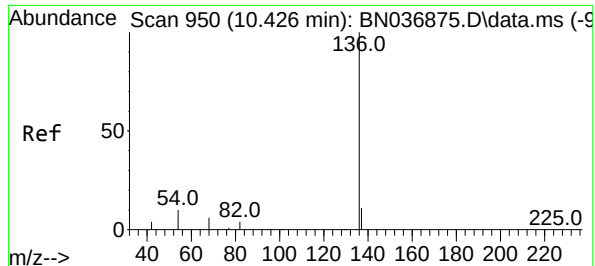
Tgt Ion: 99 Resp: 364
Ion Ratio Lower Upper
99 100
42 49.2 30.9 46.3#
71 49.2 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.070 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion: 93 Resp: 423
Ion Ratio Lower Upper
93 100
63 83.9 76.4 114.6
95 28.4 26.1 39.1

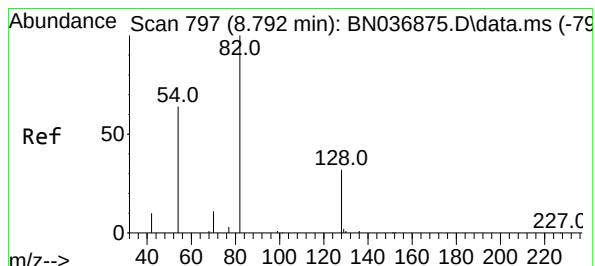
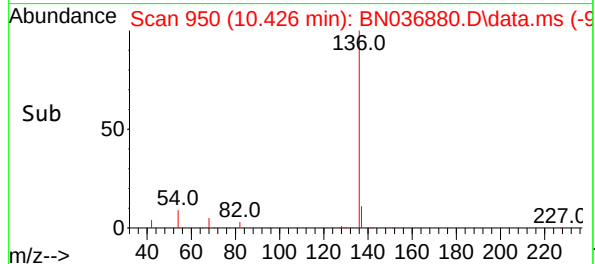
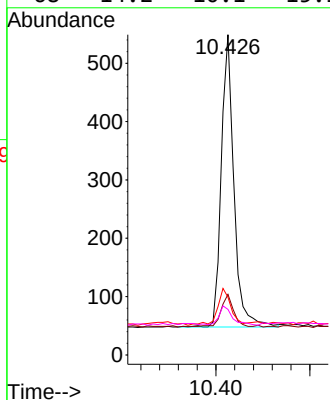
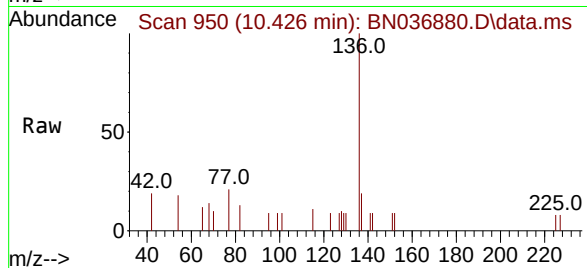




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 950
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

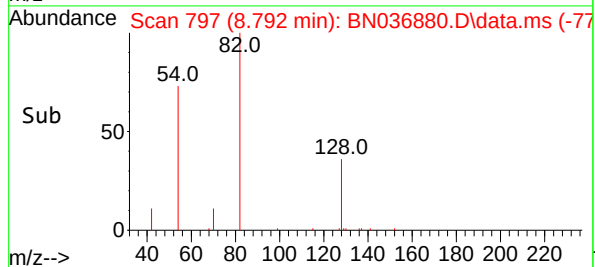
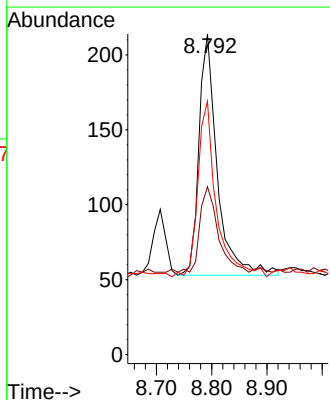
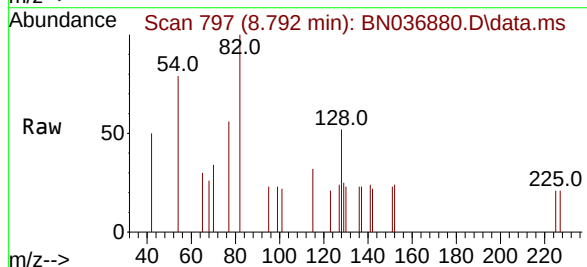
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

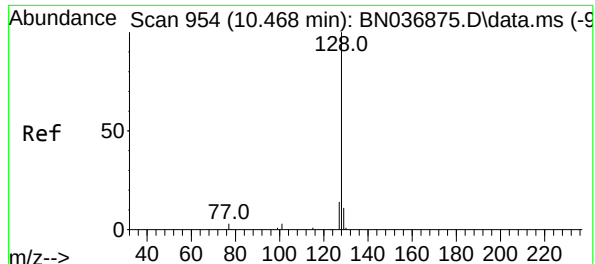
Tgt Ion:	136	Resp:	934
Ion	Ratio	Lower	Upper
136	100		
137	18.9	13.5	20.3
54	18.0	12.8	19.2
68	14.2	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:	82	Resp:	372
Ion	Ratio	Lower	Upper
82	100		
128	52.3	35.5	53.3
54	79.0	56.2	84.4

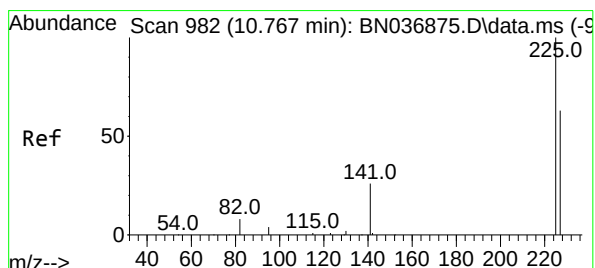
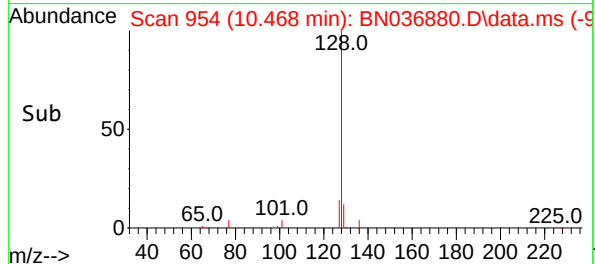
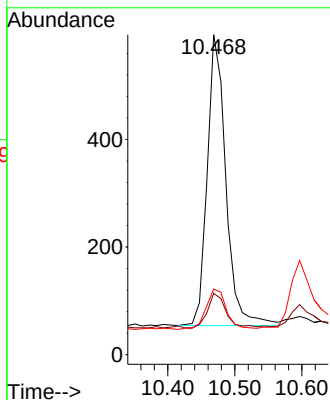
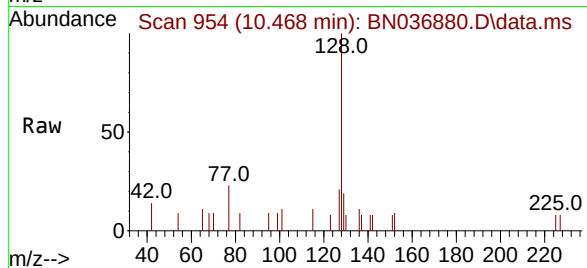




#9
Naphthalene
Concen: 0.388 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

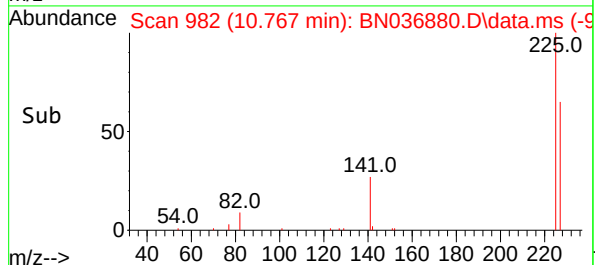
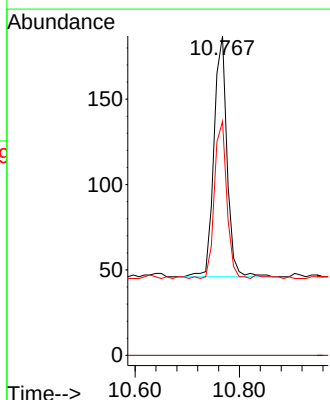
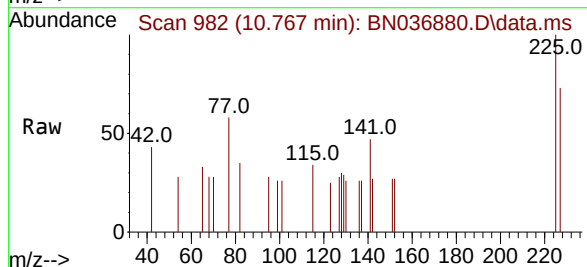
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

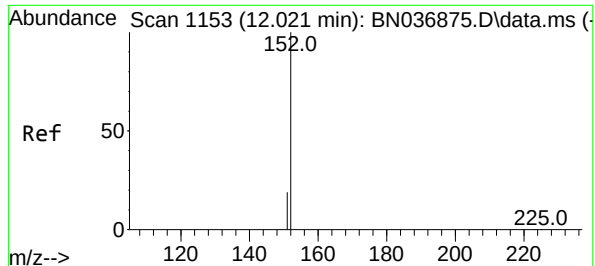
Tgt Ion:	128	Resp:	1042
Ion	Ratio	Lower	Upper
128	100		
129	19.2	12.9	19.3
127	20.5	15.0	22.6



#10
Hexachlorobutadiene
Concen: 0.402 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:	225	Resp:	245
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.6	50.5	75.7

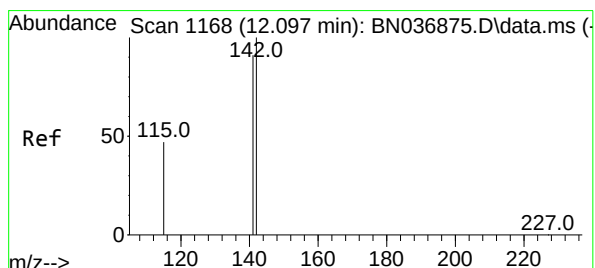
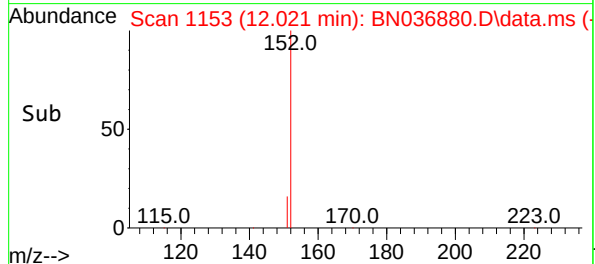
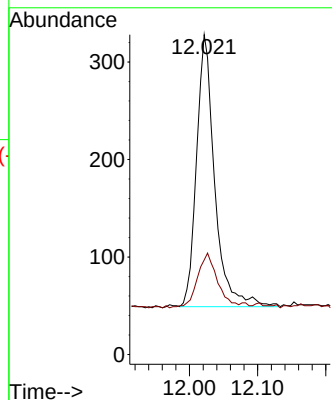
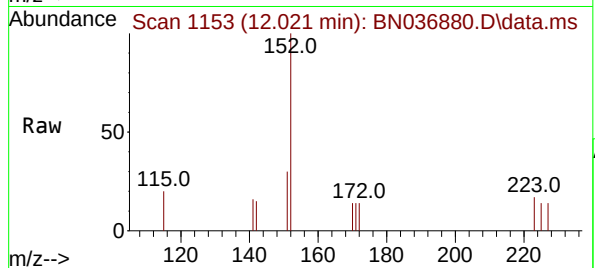




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

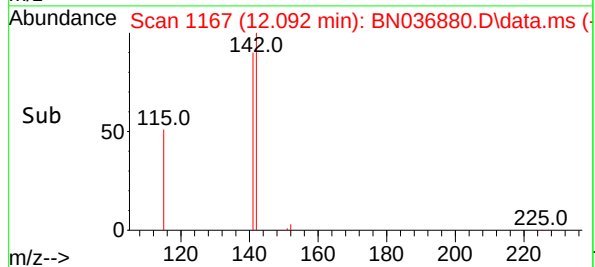
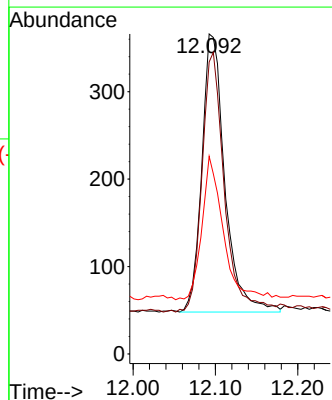
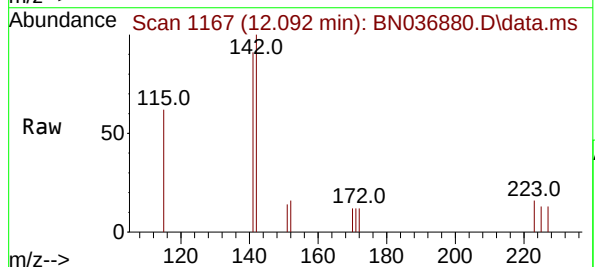
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

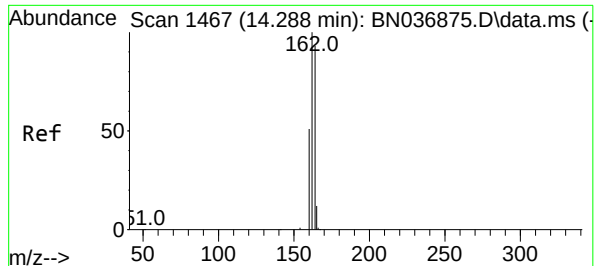
Tgt Ion:152 Resp: 516
Ion Ratio Lower Upper
152 100
151 22.1 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.358 ng
RT: 12.092 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:142 Resp: 620
Ion Ratio Lower Upper
142 100
141 91.3 73.8 110.8
115 61.7 43.3 64.9

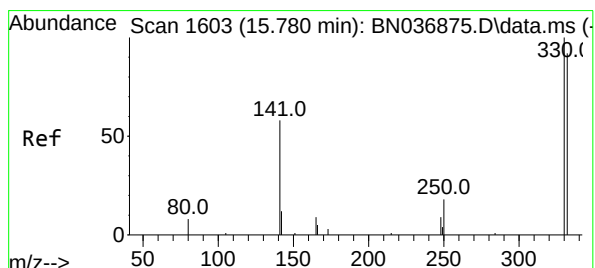
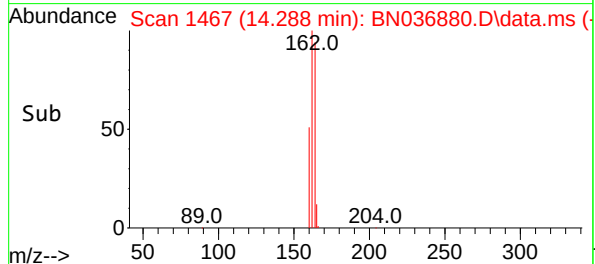
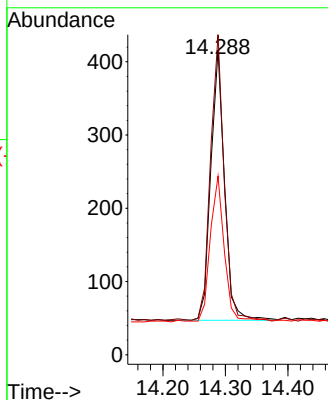
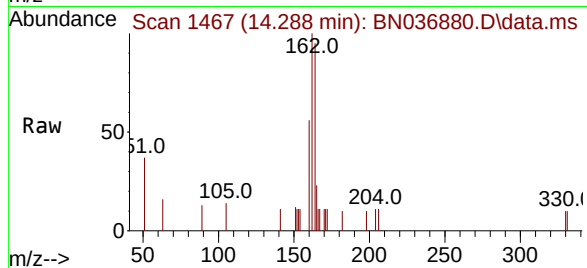




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

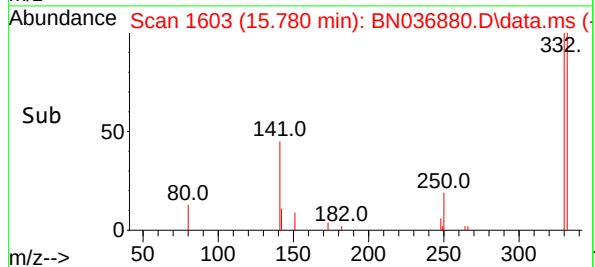
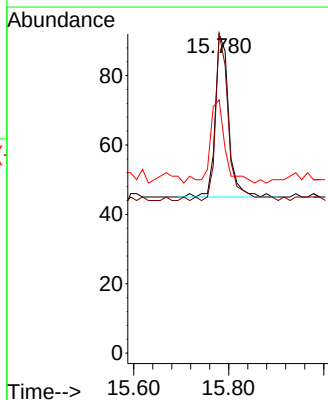
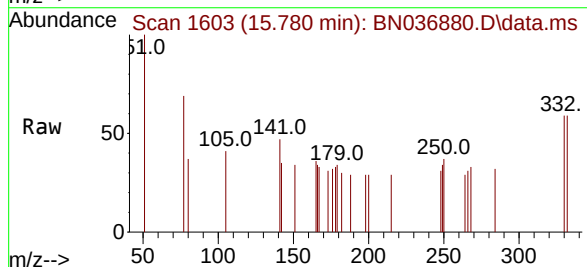
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

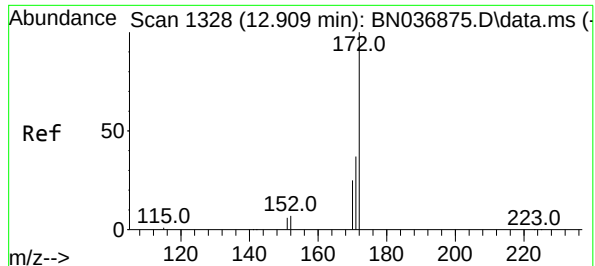
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.0	85.7	128.5
160	58.7	46.9	70.3



#14
2,4,6-Tribromophenol
Concen: 0.340 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion	Ratio	Lower	Upper
330	100		
332	100.0	87.0	130.6
141	57.6	45.3	67.9





#15

2-Fluorobiphenyl

Concen: 0.343 ng

RT: 12.909 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

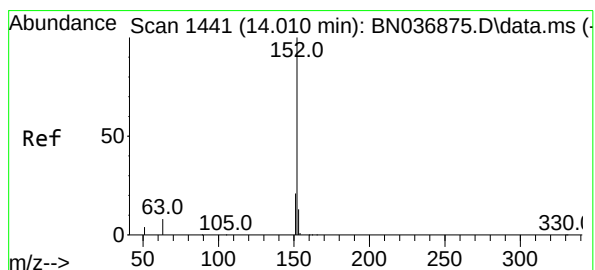
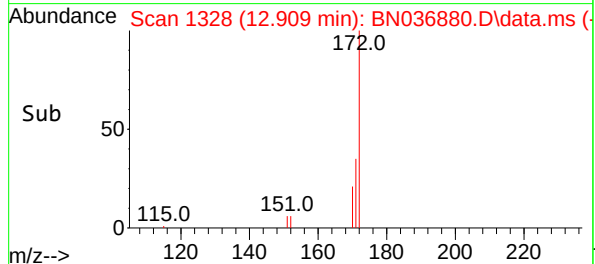
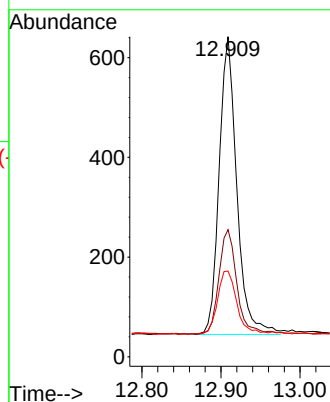
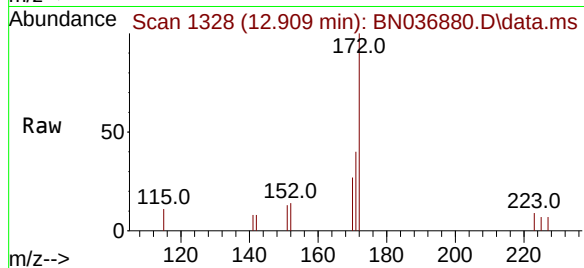
Tgt Ion:172 Resp: 927

Ion Ratio Lower Upper

172 100

171 39.7 32.7 49.1

170 26.8 23.3 34.9



#16

Acenaphthylene

Concen: 0.423 ng

RT: 14.010 min Scan# 1441

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

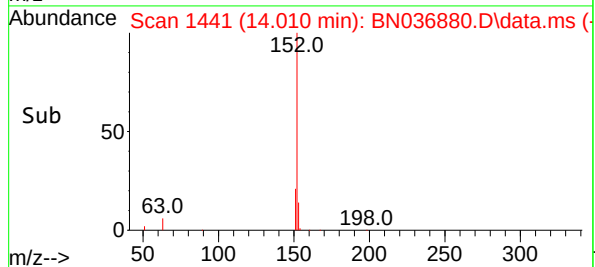
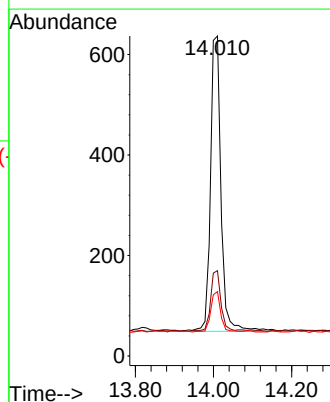
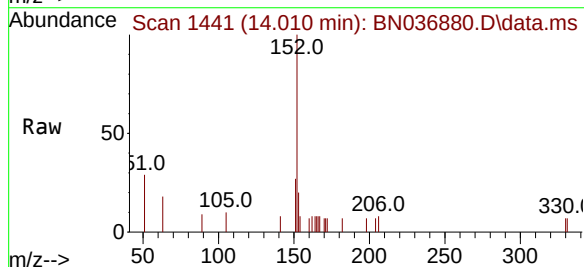
Tgt Ion:152 Resp: 1105

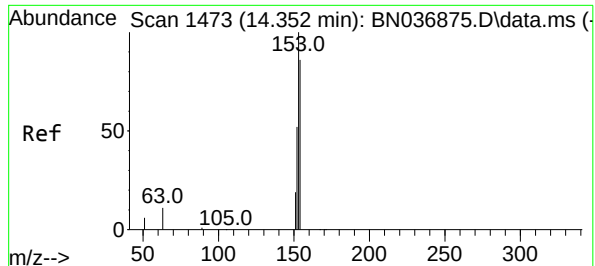
Ion Ratio Lower Upper

152 100

151 19.2 16.4 24.6

153 12.7 10.3 15.5





#17

Acenaphthene

Concen: 0.391 ng

RT: 14.352 min Scan# 1473

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

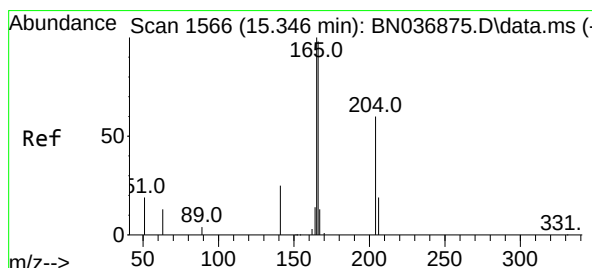
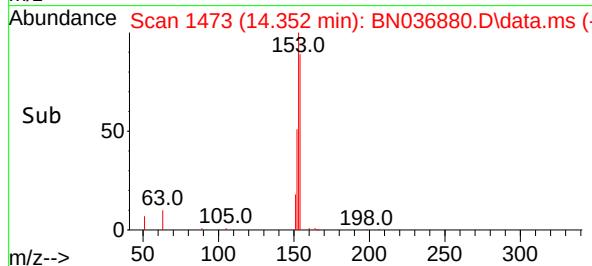
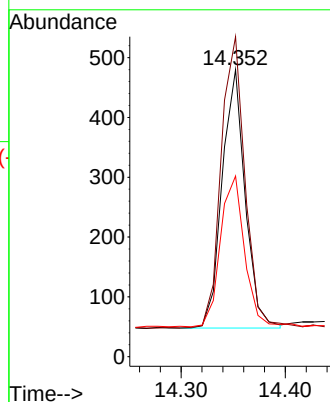
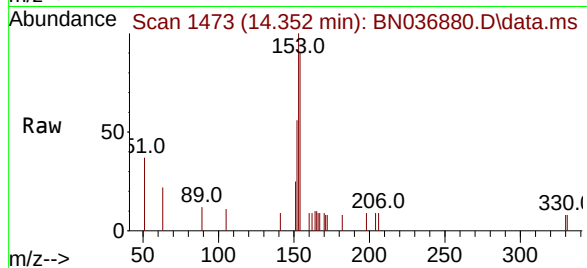
Tgt Ion:154 Resp: 664

Ion Ratio Lower Upper

154 100

153 117.0 97.8 146.6

152 61.6 52.7 79.1



#18

Fluorene

Concen: 0.390 ng

RT: 15.346 min Scan# 1566

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

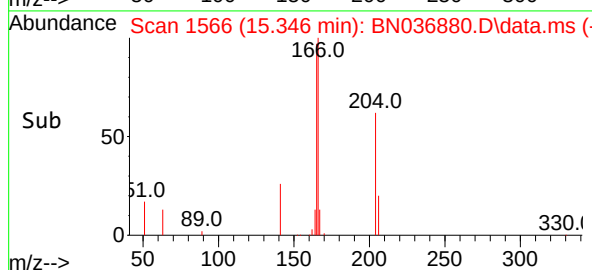
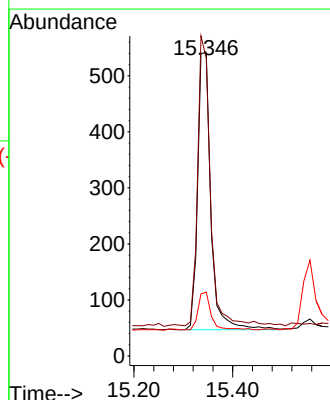
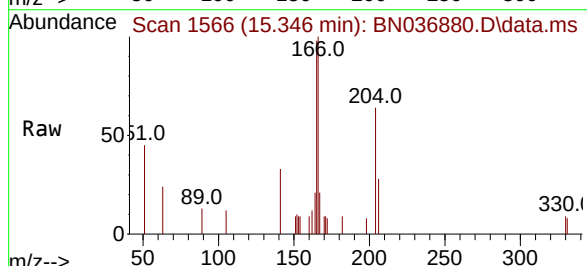
Tgt Ion:166 Resp: 914

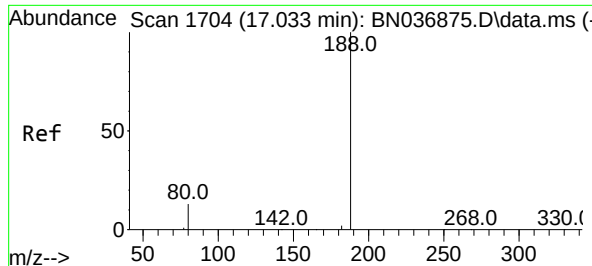
Ion Ratio Lower Upper

166 100

165 99.6 83.2 124.8

167 13.6 11.1 16.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.034 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

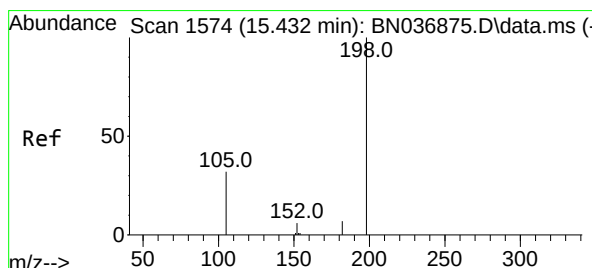
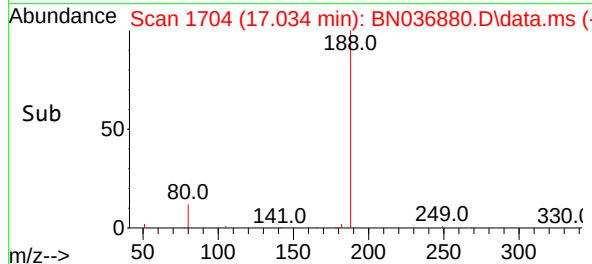
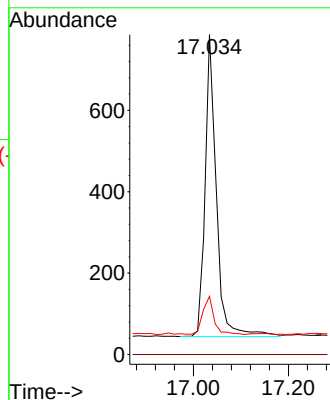
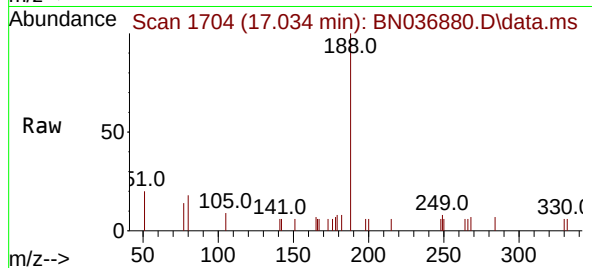
Tgt Ion:188 Resp: 1227

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 18.2 13.9 20.9



#20

4,6-Dinitro-2-methylphenol

Concen: 0.327 ng

RT: 15.432 min Scan# 1574

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

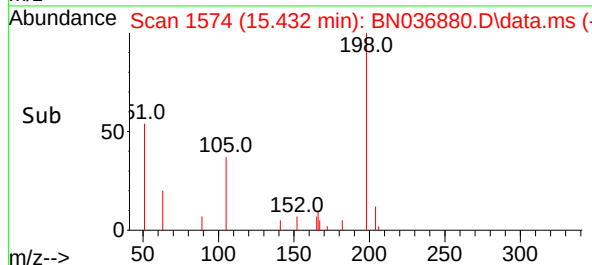
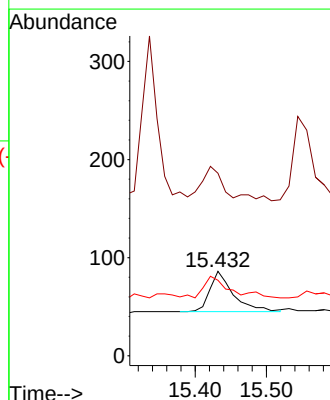
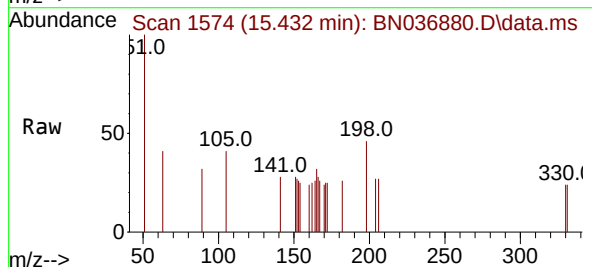
Tgt Ion:198 Resp: 95

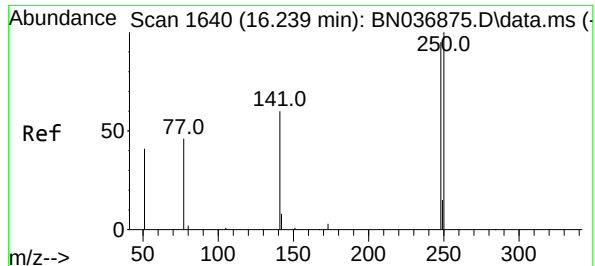
Ion Ratio Lower Upper

198 100

51 216.3 107.6 161.4#

105 89.5 55.2 82.8#

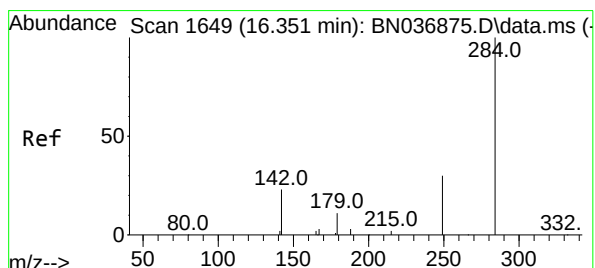
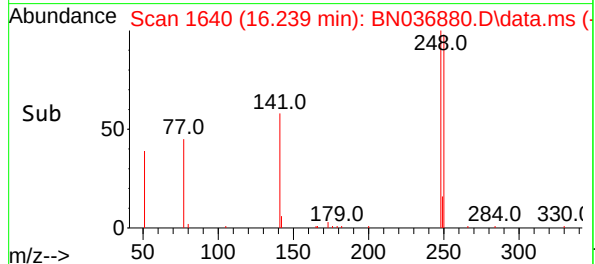
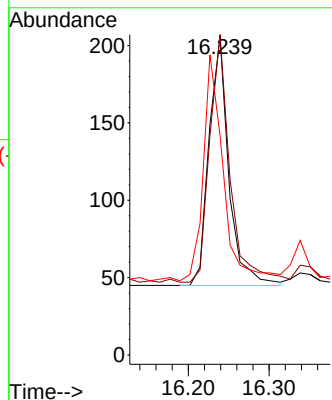
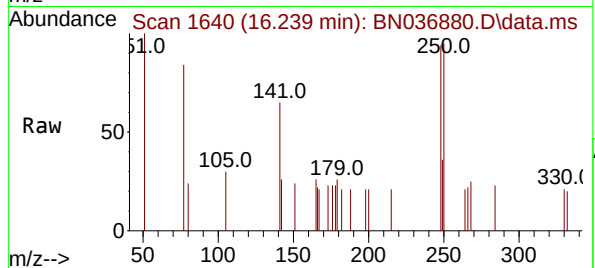




#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

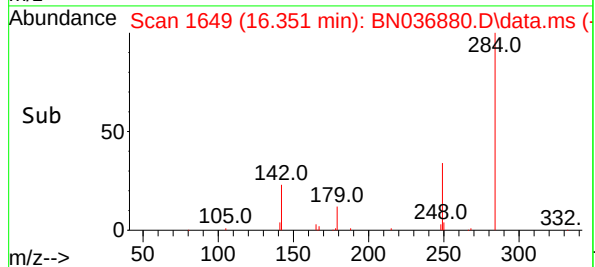
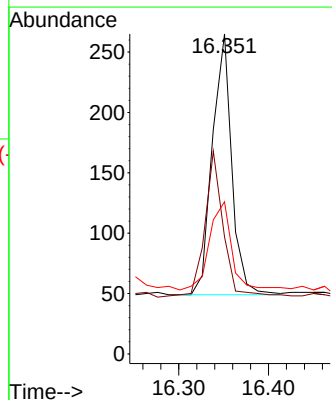
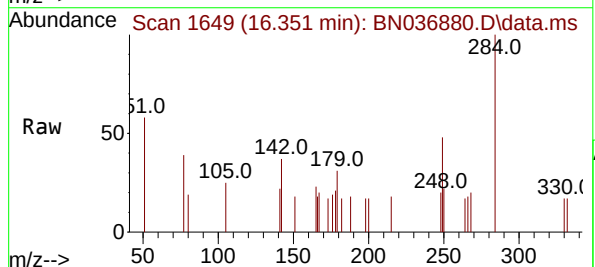
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

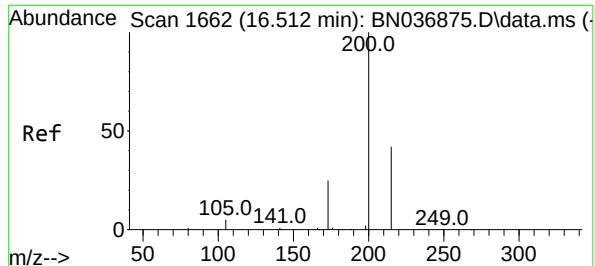
Tgt Ion:	248	Resp:	273
Ion	Ratio	Lower	Upper
248	100		
250	100.5	83.5	125.3
141	68.9	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:	284	Resp:	325
Ion	Ratio	Lower	Upper
284	100		
142	53.5	37.7	56.5
249	40.0	29.0	43.6

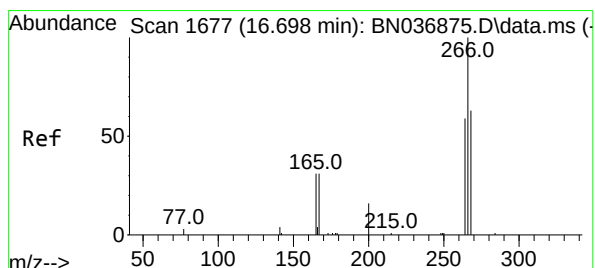
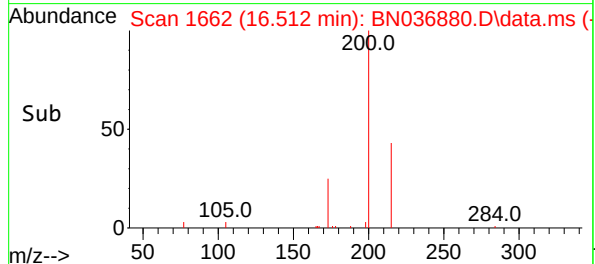
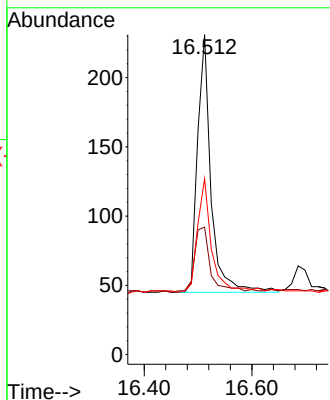
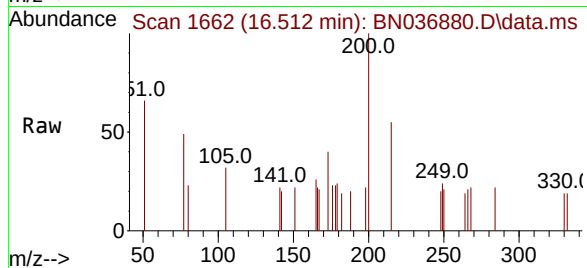




#23
Atrazine
Concen: 0.448 ng
RT: 16.512 min Scan# 1662
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

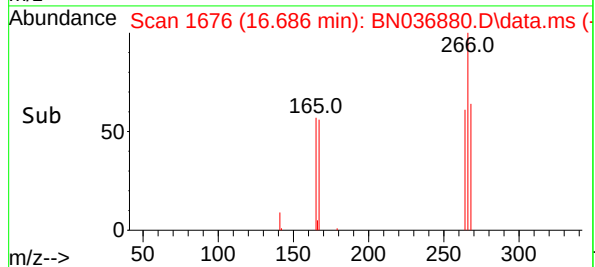
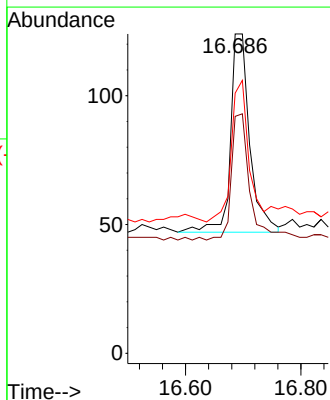
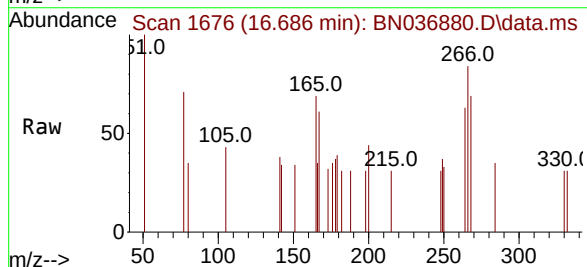
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

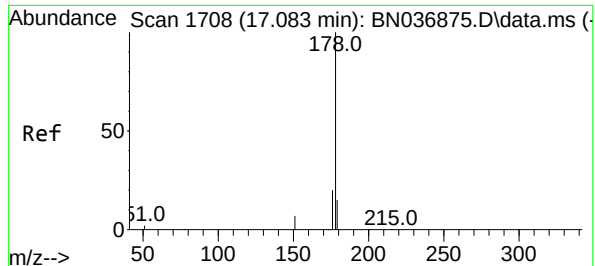
Tgt Ion	Ratio	Lower	Upper
200	100		
173	39.8	28.6	43.0
215	55.0	40.5	60.7



#24
Pentachlorophenol
Concen: 0.393 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.0	44.6	66.8
268	68.7	51.8	77.6

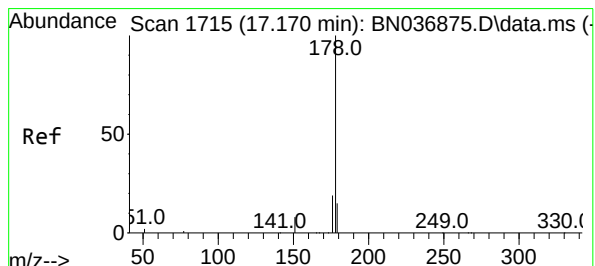
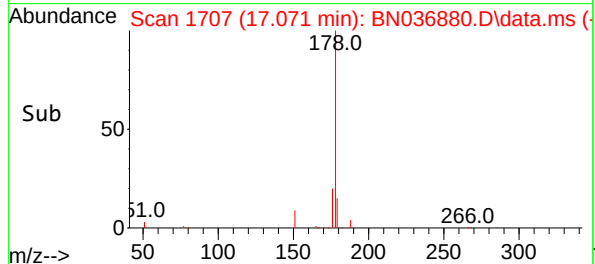
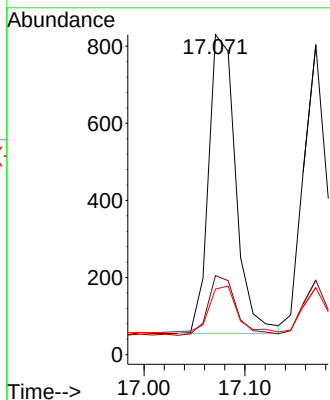
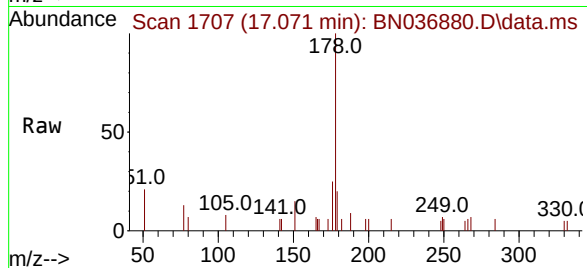




#25
Phenanthrene
Concen: 0.394 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

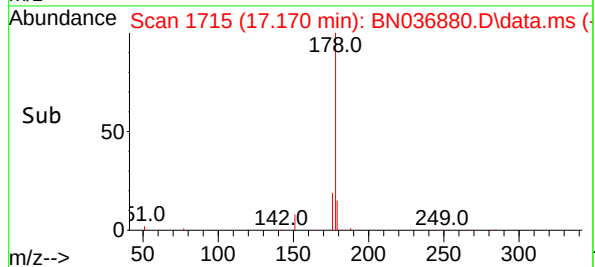
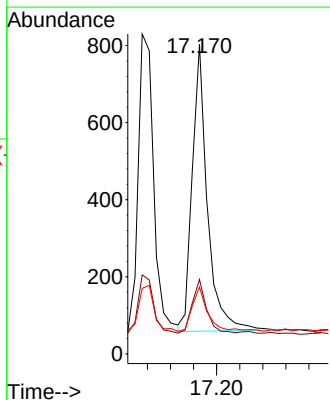
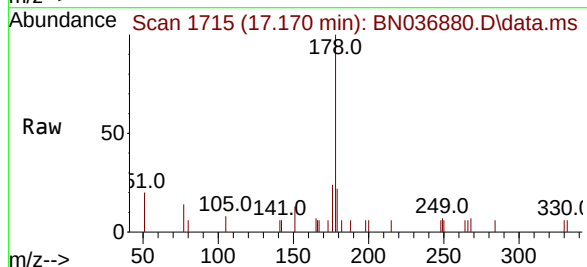
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

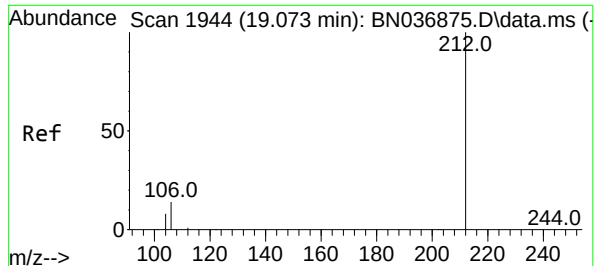
Tgt Ion:178 Resp: 1449
Ion Ratio Lower Upper
178 100
176 20.4 16.6 25.0
179 16.0 12.8 19.2



#26
Anthracene
Concen: 0.415 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:178 Resp: 1362
Ion Ratio Lower Upper
178 100
176 17.5 15.8 23.6
179 16.1 12.6 18.8





#27

Fluoranthene-d10

Concen: 0.389 ng

RT: 19.073 min Scan# 1944

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

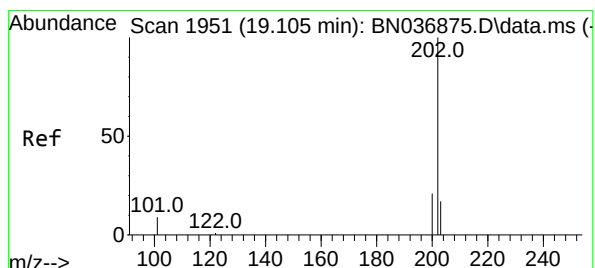
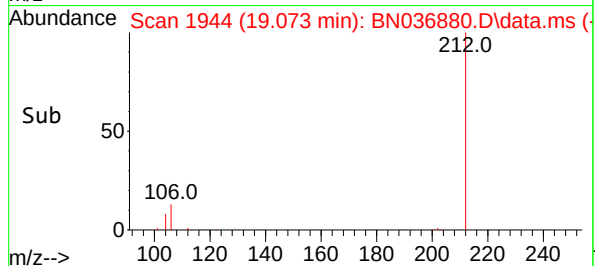
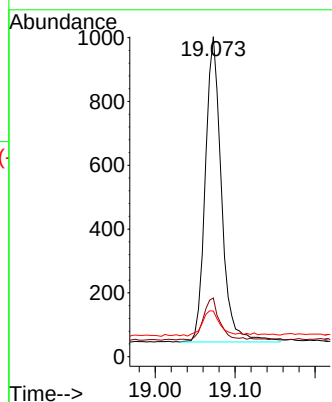
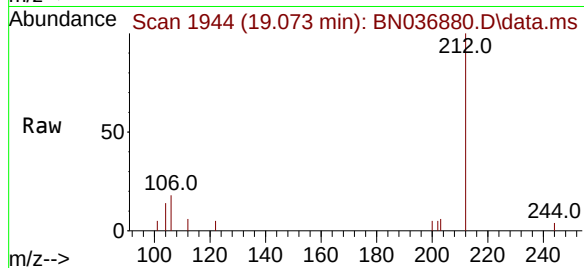
Tgt Ion:212 Resp: 1345

Ion Ratio Lower Upper

212 100

106 13.3 11.2 16.8

104 9.3 7.5 11.3



#28

Fluoranthene

Concen: 0.396 ng

RT: 19.101 min Scan# 1950

Delta R.T. -0.005 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

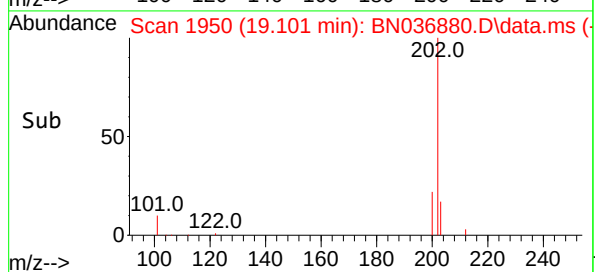
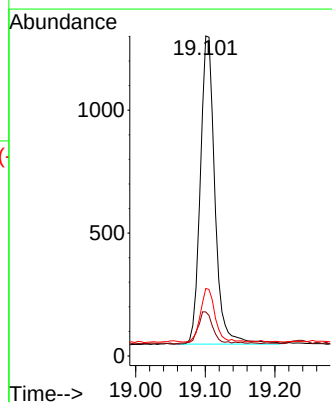
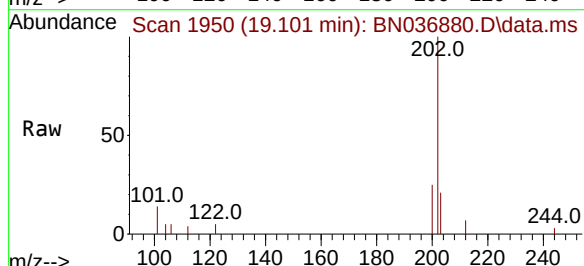
Tgt Ion:202 Resp: 1833

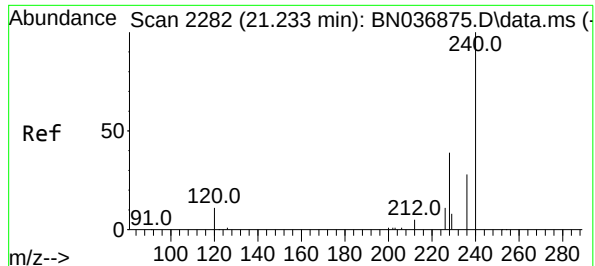
Ion Ratio Lower Upper

202 100

101 10.7 8.5 12.7

203 17.6 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

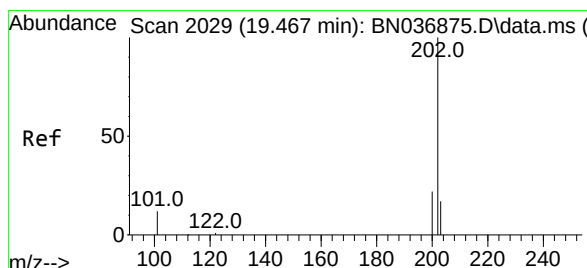
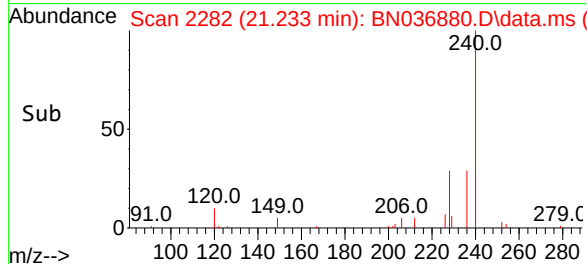
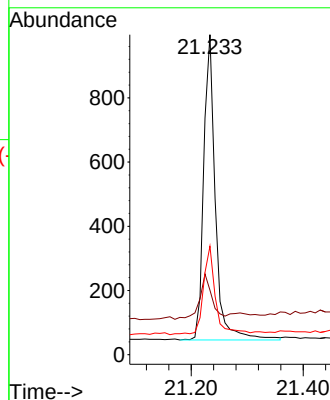
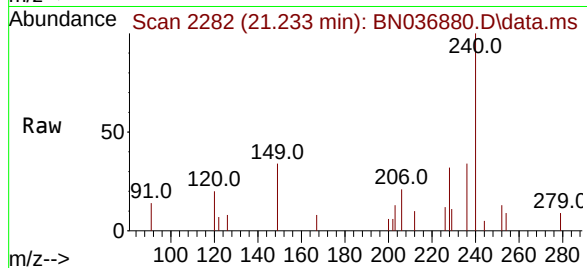
Tgt Ion:240 Resp: 1378

Ion Ratio Lower Upper

240 100

120 20.2 15.8 23.6

236 33.9 25.8 38.8



#30

Pyrene

Concen: 0.372 ng

RT: 19.468 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

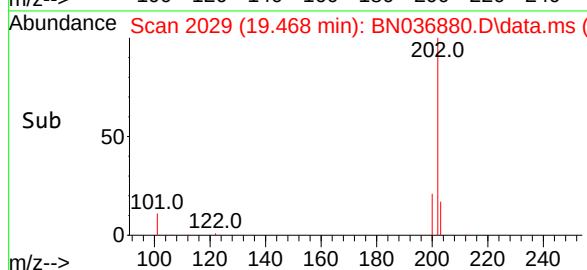
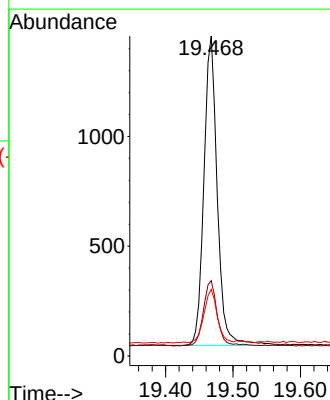
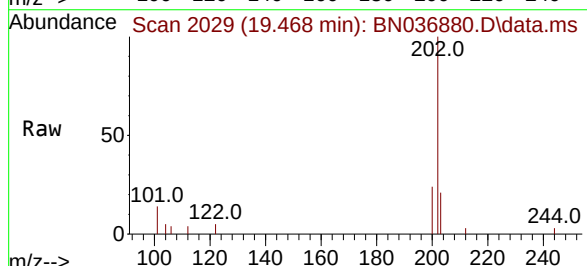
Tgt Ion:202 Resp: 1936

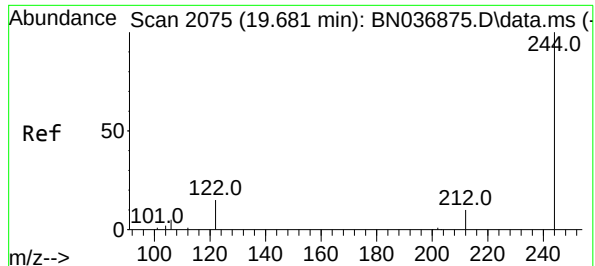
Ion Ratio Lower Upper

202 100

200 22.2 17.1 25.7

203 17.4 14.5 21.7

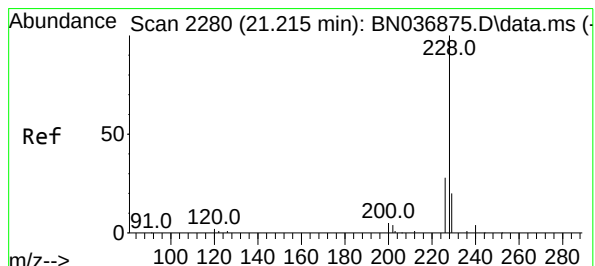
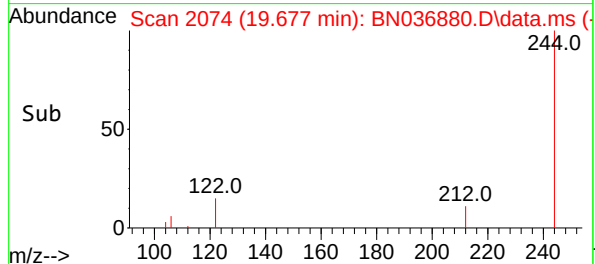
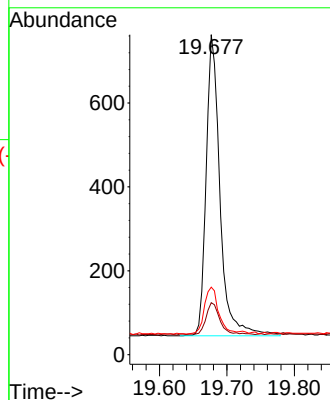
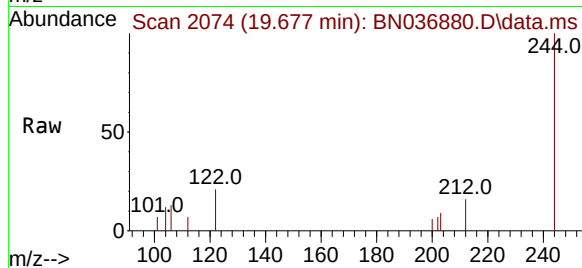




#31
Terphenyl-d14
Concen: 0.391 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

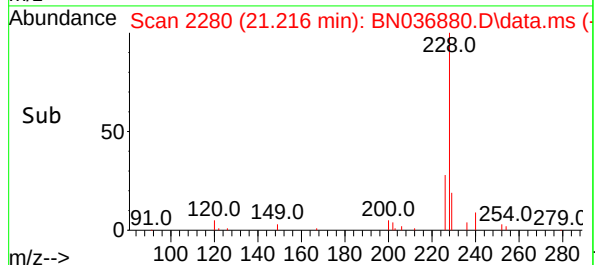
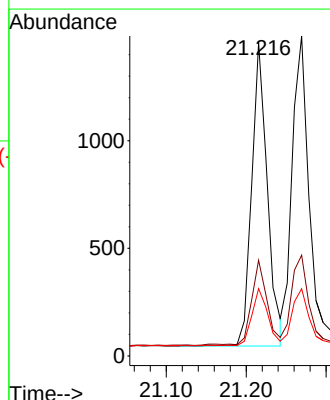
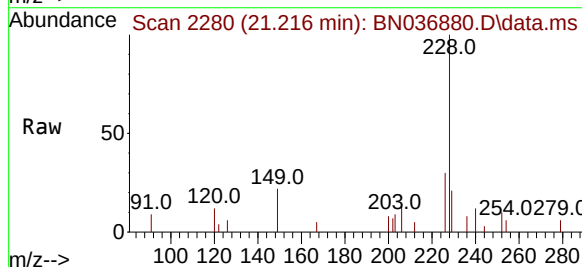
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

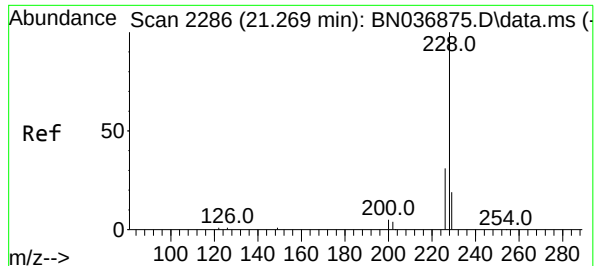
Tgt Ion:244 Resp: 1023
Ion Ratio Lower Upper
244 100
212 16.3 11.6 17.4
122 21.1 14.9 22.3



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.216 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:228 Resp: 1916
Ion Ratio Lower Upper
228 100
226 30.5 24.5 36.7
229 21.5 17.7 26.5





#33

Chrysene

Concen: 0.411 ng

RT: 21.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

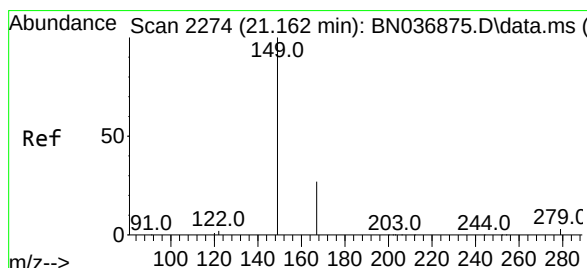
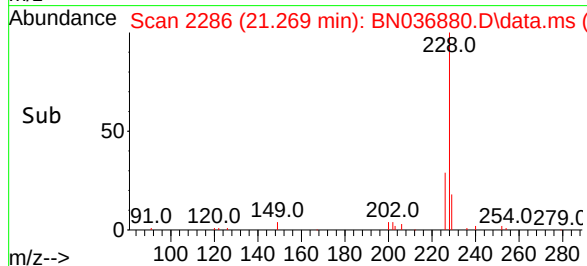
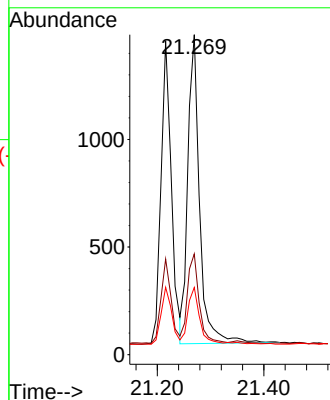
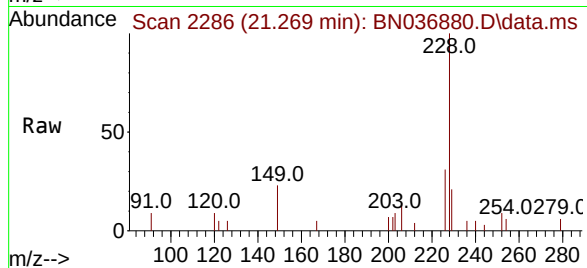
Tgt Ion:228 Resp: 2205

Ion Ratio Lower Upper

228 100

226 31.5 26.1 39.1

229 21.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.412 ng

RT: 21.153 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

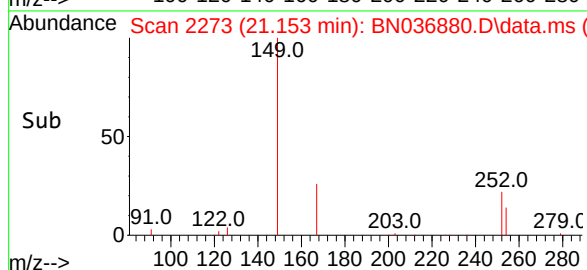
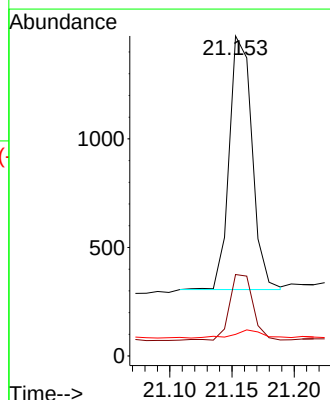
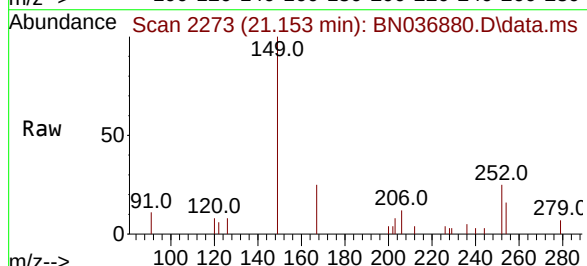
Tgt Ion:149 Resp: 1487

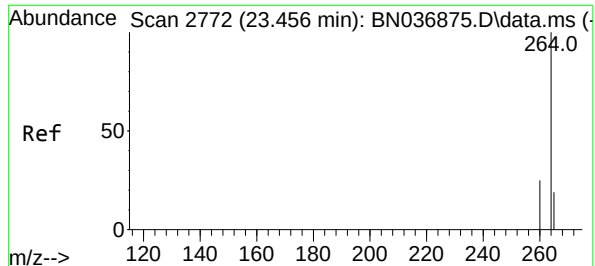
Ion Ratio Lower Upper

149 100

167 26.6 21.0 31.4

279 4.0 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.450 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

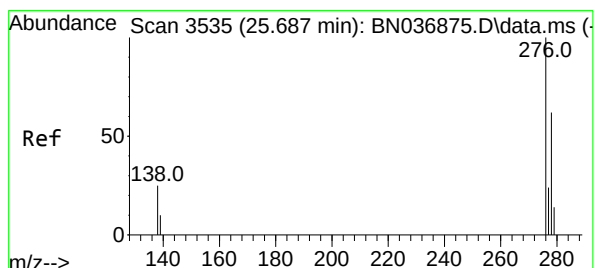
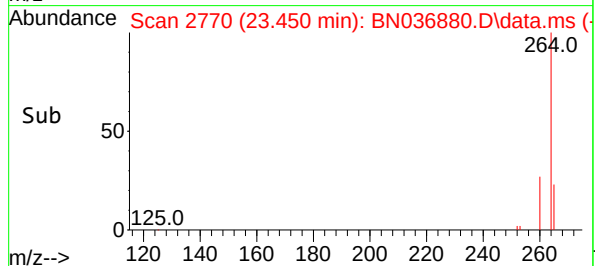
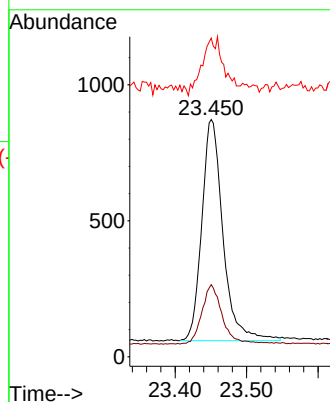
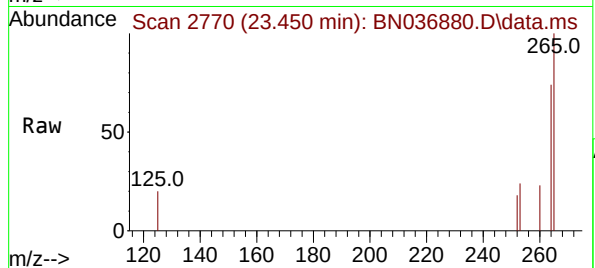
Tgt Ion:264 Resp: 1678

Ion Ratio Lower Upper

264 100

260 30.4 22.9 34.3

265 134.4 88.6 132.8#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.425 ng

RT: 25.675 min Scan# 3531

Delta R.T. -0.012 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

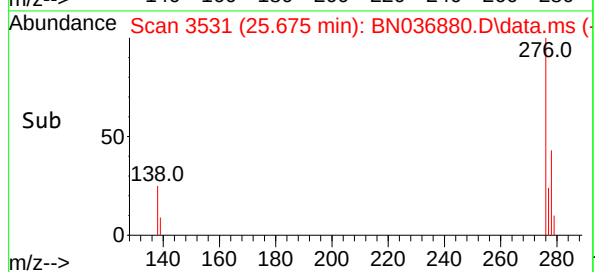
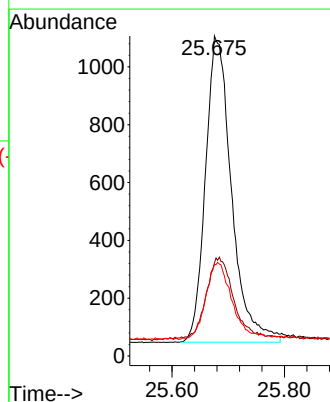
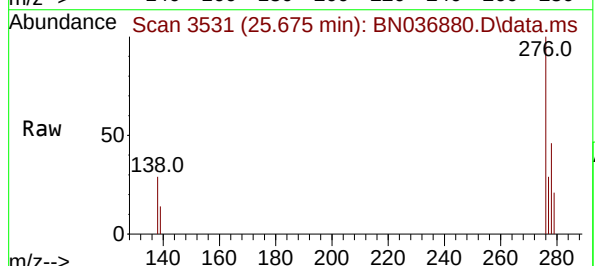
Tgt Ion:276 Resp: 3402

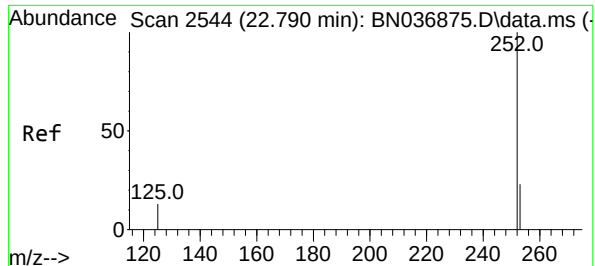
Ion Ratio Lower Upper

276 100

138 27.6 21.0 31.6

277 25.3 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 0.392 ng

RT: 22.787 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

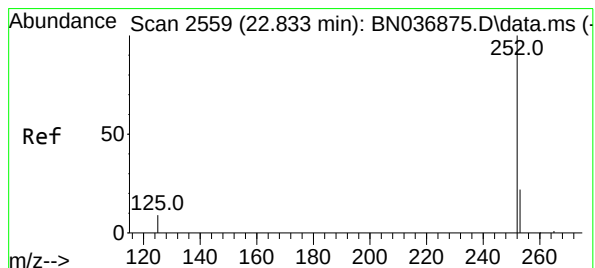
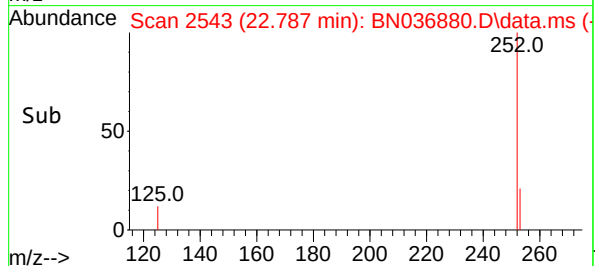
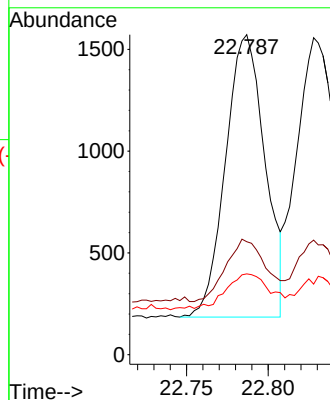
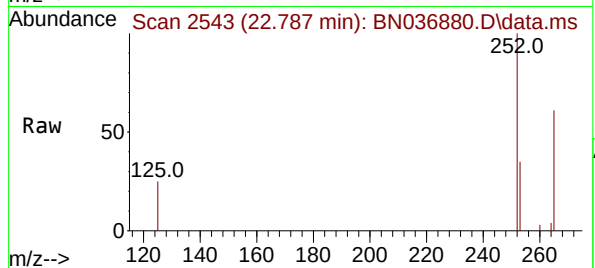
Tgt Ion:252 Resp: 2332

Ion Ratio Lower Upper

252 100

253 35.3 27.0 40.6

125 25.3 17.7 26.5



#38

Benzo(k)fluoranthene

Concen: 0.428 ng

RT: 22.828 min Scan# 2557

Delta R.T. -0.006 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

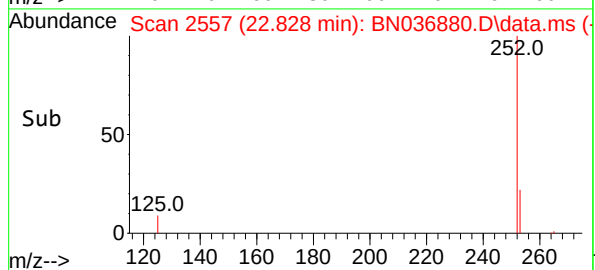
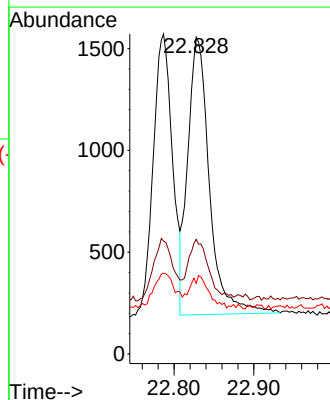
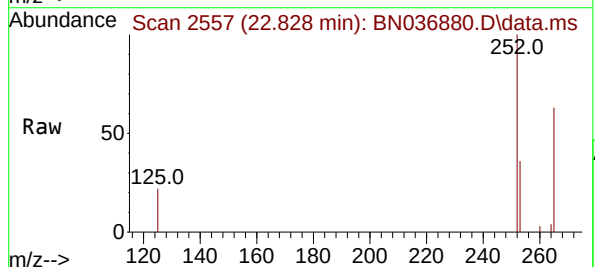
Tgt Ion:252 Resp: 2571

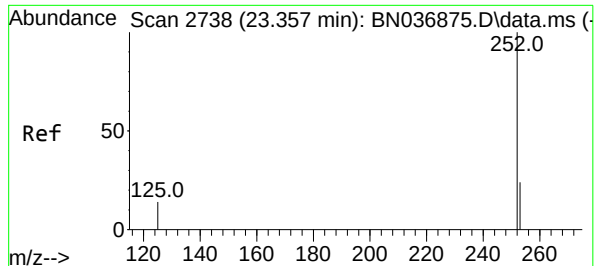
Ion Ratio Lower Upper

252 100

253 36.2 26.7 40.1

125 22.3 16.9 25.3





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

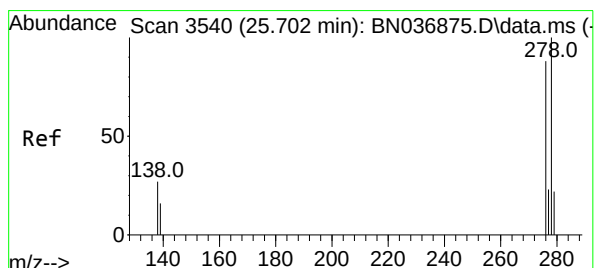
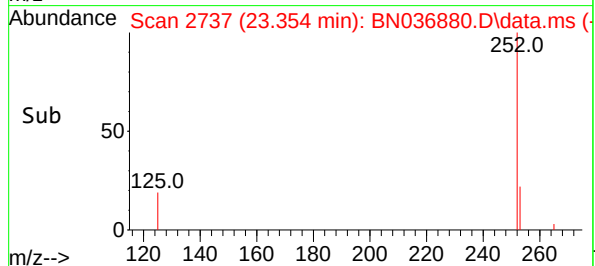
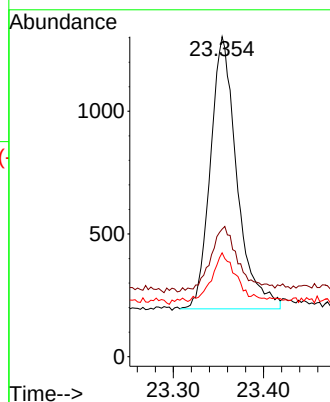
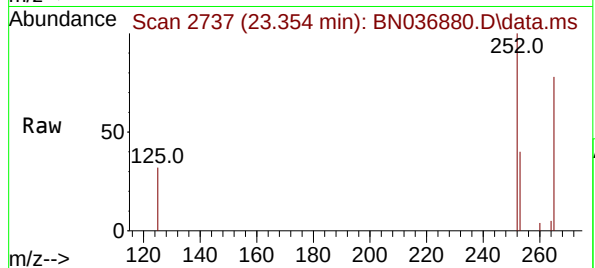
Tgt Ion:252 Resp: 2267

Ion Ratio Lower Upper

252 100

253 39.9 31.5 47.3

125 32.4 22.6 34.0



#40

Dibenzo(a,h)anthracene

Concen: 0.423 ng

RT: 25.699 min Scan# 3539

Delta R.T. -0.003 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

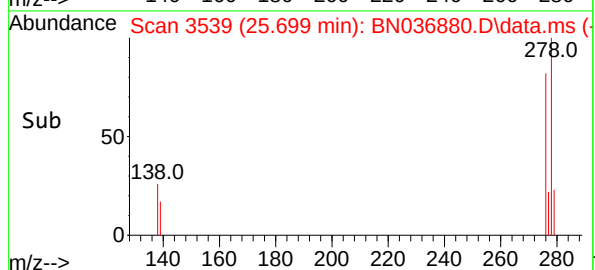
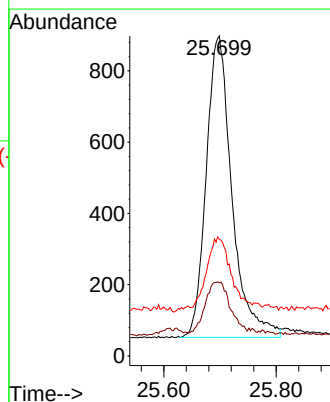
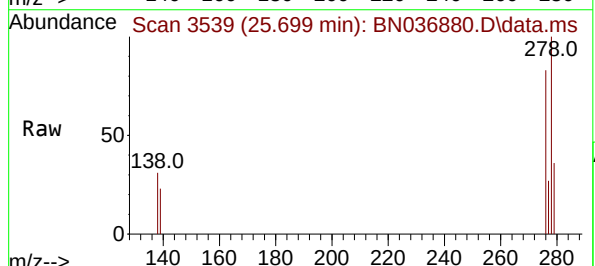
Tgt Ion:278 Resp: 2690

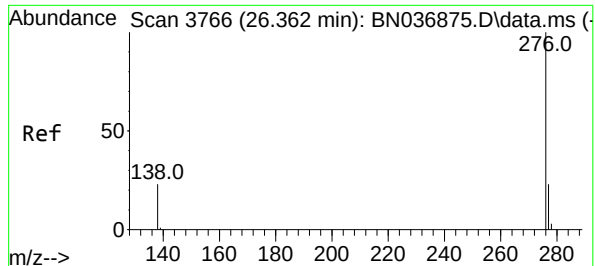
Ion Ratio Lower Upper

278 100

139 22.8 17.6 26.4

279 36.4 26.7 40.1





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.357 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN036880.D

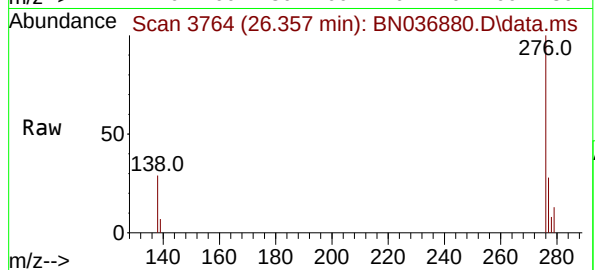
Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125



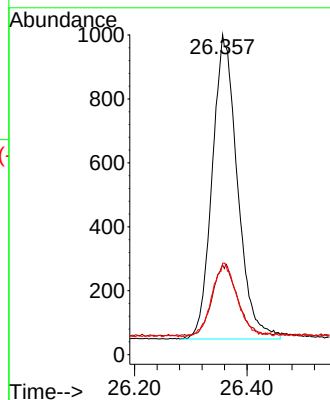
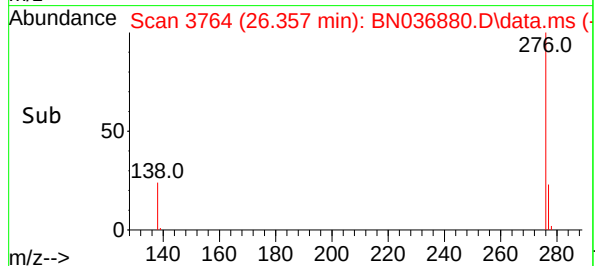
Tgt Ion:276 Resp: 2966

Ion Ratio Lower Upper

276 100

277 28.1 21.8 32.8

138 28.6 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036880.D
 Acq On : 11 Apr 2025 16:18
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

Quant Time: Apr 11 16:41:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 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	73	0.00
2	1,4-Dioxane	0.464	0.494	-6.5	81	0.00
3	n-Nitrosodimethylamine	1.028	1.169	-13.7	78	0.00
4 S	2-Fluorophenol	0.941	0.927	1.5	70	0.00
5 S	Phenol-d6	1.203	1.022	15.0	62	0.00
6	bis(2-Chloroethyl)ether	1.180	1.188	-0.7	73	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	74	0.00
8 S	Nitrobenzene-d5	0.444	0.398	10.4	65	0.00
9	Naphthalene	1.151	1.116	3.0	71	0.00
10	Hexachlorobutadiene	0.261	0.262	-0.4	68	0.00
11 SURR	2-Methylnaphthalene-d10	0.582	0.552	5.2	69	0.00
12	2-Methylnaphthalene	0.741	0.664	10.4	65	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.193	0.164	15.0	68	0.00
15 S	2-Fluorobiphenyl	1.921	1.649	14.2	62	0.00
16	Acenaphthylene	1.858	1.966	-5.8	79	0.00
17	Acenaphthene	1.210	1.181	2.4	72	0.00
18	Fluorene	1.669	1.626	2.6	73	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.095	0.077	18.9	63	0.00
21	4-Bromophenyl-phenylether	0.240	0.222	7.5	67	0.00
22	Hexachlorobenzene	0.284	0.265	6.7	67	0.00
23	Atrazine	0.234	0.262	-12.0	78	0.00
24	Pentachlorophenol	0.149	0.146	2.0	70	-0.01
25	Phenanthrene	1.199	1.181	1.5	71	-0.01
26	Anthracene	1.069	1.110	-3.8	75	0.00
27 SURR	Fluoranthene-d10	1.127	1.096	2.8	70	0.00
28	Fluoranthene	1.509	1.494	1.0	72	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	85	0.00
30	Pyrene	1.512	1.405	7.1	74	0.00
31 S	Terphenyl-d14	0.760	0.742	2.4	77	0.00
32	Benzo(a)anthracene	1.413	1.390	1.6	84	0.00
33	Chrysene	1.558	1.600	-2.7	81	0.00
34	Bis(2-ethylhexyl)phthalate	1.049	1.079	-2.9	89	0.00
35 I	Perylene-d12	1.000	1.000	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	1.909	2.027	-6.2	89	-0.01
37	Benzo(b)fluoranthene	1.419	1.390	2.0	81	0.00
38	Benzo(k)fluoranthene	1.432	1.532	-7.0	91	0.00
39 C	Benzo(a)pyrene	1.244	1.351	-8.6	89	0.00
40	Dibenzo(a,h)anthracene	1.516	1.603	-5.7	89	0.00
41	Benzo(g,h,i)perylene	1.714	1.768	-3.2	87	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036880.D
Acq On : 11 Apr 2025 16:18
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN041125

Quant Time: Apr 11 16:41:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 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	73	0.00
2	1,4-Dioxane	0.400	0.426	-6.5	81	0.00
3	n-Nitrosodimethylamine	0.400	0.455	-13.7	78	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	70	0.00
5 S	Phenol-d6	0.400	0.340	15.0	62	0.00
6	bis(2-Chloroethyl)ether	0.400	0.403	-0.8	73	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	74	0.00
8 S	Nitrobenzene-d5	0.400	0.359	10.3	65	0.00
9	Naphthalene	0.400	0.388	3.0	71	0.00
10	Hexachlorobutadiene	0.400	0.402	-0.5	68	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.380	5.0	69	0.00
12	2-Methylnaphthalene	0.400	0.358	10.5	65	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.400	0.340	15.0	68	0.00
15 S	2-Fluorobiphenyl	0.400	0.343	14.2	62	0.00
16	Acenaphthylene	0.400	0.423	-5.7	79	0.00
17	Acenaphthene	0.400	0.391	2.3	72	0.00
18	Fluorene	0.400	0.390	2.5	73	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.327	18.3	63	0.00
21	4-Bromophenyl-phenylether	0.400	0.371	7.3	67	0.00
22	Hexachlorobenzene	0.400	0.374	6.5	67	0.00
23	Atrazine	0.400	0.448	-12.0	78	0.00
24	Pentachlorophenol	0.400	0.393	1.8	70	-0.01
25	Phenanthrene	0.400	0.394	1.5	71	-0.01
26	Anthracene	0.400	0.415	-3.7	75	0.00
27 SURR	Fluoranthene-d10	0.400	0.389	2.8	70	0.00
28	Fluoranthene	0.400	0.396	1.0	72	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	85	0.00
30	Pyrene	0.400	0.372	7.0	74	0.00
31 S	Terphenyl-d14	0.400	0.391	2.3	77	0.00
32	Benzo(a)anthracene	0.400	0.394	1.5	84	0.00
33	Chrysene	0.400	0.411	-2.7	81	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.412	-3.0	89	0.00
35 I	Perylene-d12	0.400	0.400	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.425	-6.2	89	-0.01
37	Benzo(b)fluoranthene	0.400	0.392	2.0	81	0.00
38	Benzo(k)fluoranthene	0.400	0.428	-7.0	91	0.00
39 C	Benzo(a)pyrene	0.400	0.434	-8.5	89	0.00
40	Dibenzo(a,h)anthracene	0.400	0.423	-5.7	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.413	-3.2	87	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.: Q1773 SAS No.: Q1773 SDG No.: Q1773

Instrument ID: BNA_N Calibration Date/Time: 04/11/2025 18:45

Lab File ID: BN036884.D Init. Calib. Date(s): 04/11/2025 04/11/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:42 15:42

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.582	0.596		2.4	20.0
Fluoranthene-d10	1.127	1.290		14.5	20.0
2-Fluorophenol	0.941	0.980		4.1	20.0
Phenol-d6	1.203	1.244		3.4	20.0
Nitrobenzene-d5	0.444	0.442		-0.4	20.0
2-Fluorobiphenyl	1.921	2.017		5.0	20.0
2,4,6-Tribromophenol	0.193	0.204		5.7	20.0
Terphenyl-d14	0.760	0.770		1.3	20.0
1,4-Dioxane	0.464	0.386		-16.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036884.D
 Acq On : 11 Apr 2025 18:45
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Apr 11 23:05:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

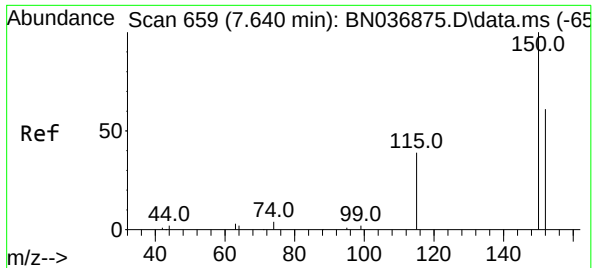
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	254	0.400	ng	0.00
7) Naphthalene-d8	10.425	136	679	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	407	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	865	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1015	0.400	ng	0.00
35) Perylene-d12	23.447	264	1369	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	249	0.417	ng	0.00
5) Phenol-d6	6.816	99	316	0.414	ng	0.00
8) Nitrobenzene-d5	8.792	82	300	0.398	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	405	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	83	0.423	ng	0.00
15) 2-Fluorobiphenyl	12.908	172	821	0.420	ng	0.00
27) Fluoranthene-d10	19.072	212	1116	0.458	ng	0.00
31) Terphenyl-d14	19.676	244	782	0.406	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	98m	0.333	ng	Qvalue
3) n-Nitrosodimethylamine	3.472	42	310	0.475	ng	# 93
6) bis(2-Chloroethyl)ether	7.069	93	312	0.416	ng	91
9) Naphthalene	10.468	128	821	0.420	ng	# 92
10) Hexachlorobutadiene	10.767	225	197	0.445	ng	# 97
12) 2-Methylnaphthalene	12.097	142	526	0.418	ng	# 91
16) Acenaphthylene	14.010	152	772	0.408	ng	98
17) Acenaphthene	14.352	154	527	0.428	ng	94
18) Fluorene	15.346	166	705	0.415	ng	99
20) 4,6-Dinitro-2-methylph...	15.432	198	81	0.395	ng	# 67
21) 4-Bromophenyl-phenylether	16.239	248	229	0.442	ng	96
22) Hexachlorobenzene	16.350	284	276	0.450	ng	99
23) Atrazine	16.512	200	253	0.499	ng	91
24) Pentachlorophenol	16.698	266	157	0.489	ng	# 91
25) Phenanthrene	17.070	178	1134	0.437	ng	96
26) Anthracene	17.170	178	1021	0.442	ng	99
28) Fluoranthene	19.100	202	1468	0.450	ng	99
30) Pyrene	19.467	202	1572	0.410	ng	98
32) Benzo(a)anthracene	21.215	228	1507	0.420	ng	97
33) Chrysene	21.269	228	1762	0.446	ng	98
34) Bis(2-ethylhexyl)phtha...	21.152	149	1203	0.452	ng	99
36) Indeno(1,2,3-cd)pyrene	25.675	276	3065	0.469	ng	96
37) Benzo(b)fluoranthene	22.784	252	1963	0.404	ng	96
38) Benzo(k)fluoranthene	22.830	252	2101m	0.429	ng	
39) Benzo(a)pyrene	23.351	252	1900	0.446	ng	# 94
40) Dibenzo(a,h)anthracene	25.693	278	2440	0.470	ng	97
41) Benzo(g,h,i)perylene	26.359	276	2713	0.463	ng	98

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

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

- 1
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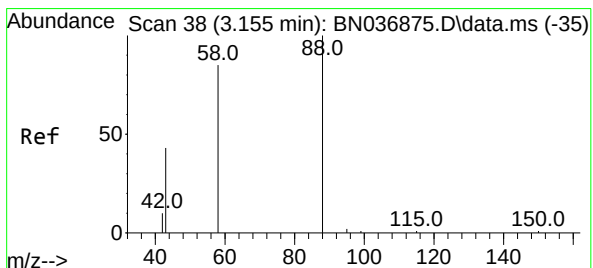
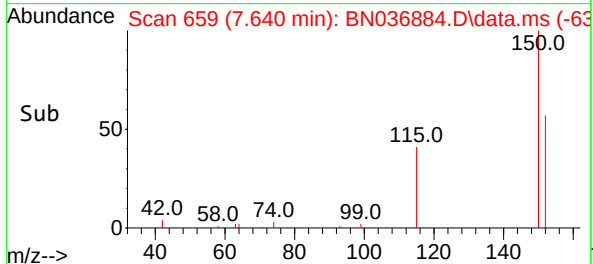
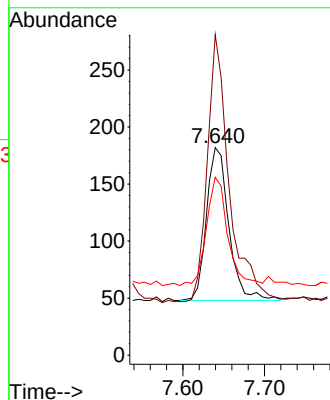
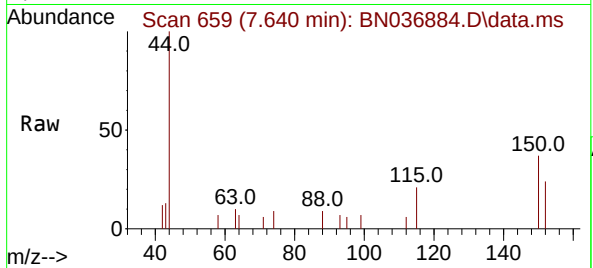




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

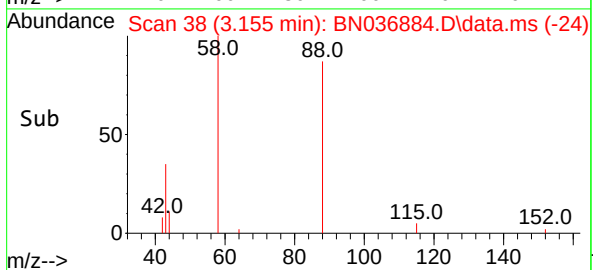
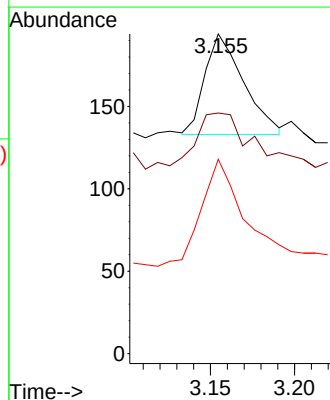
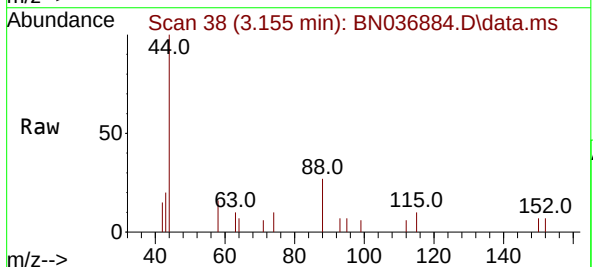
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BNA_N
ClientSampleId :
SSTDCCC0.4

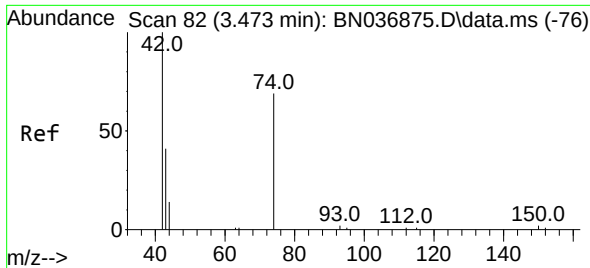
Tgt Ion:152 Resp: 254
Ion Ratio Lower Upper
152 100
150 154.4 123.0 184.6
115 85.7 60.1 90.1



#2
1,4-Dioxane
Concen: 0.333 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion: 88 Resp: 98
Ion Ratio Lower Upper
88 100
43 77.6 39.2 58.8#
58 135.7 63.5 95.3#

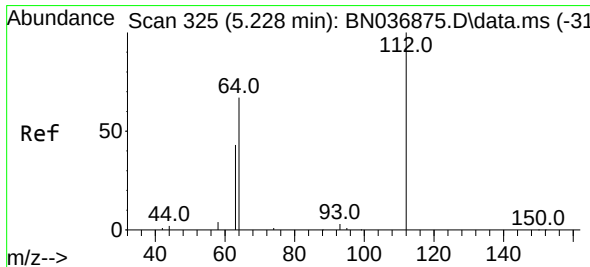
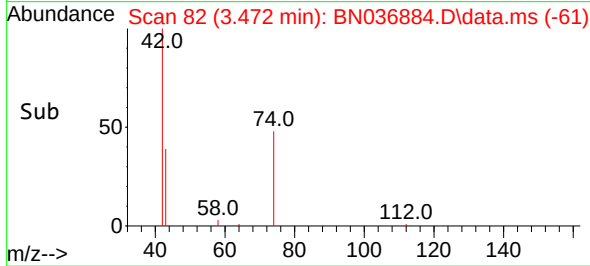
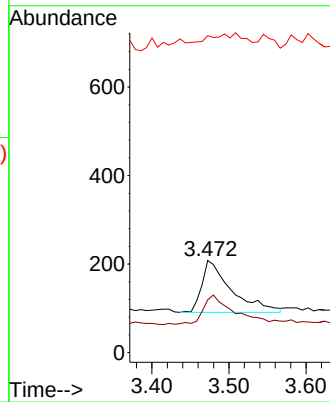
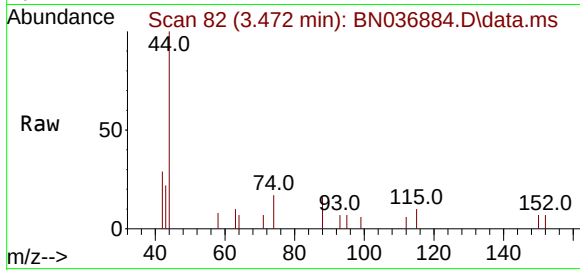




#3
n-Nitrosodimethylamine
Concen: 0.475 ng
RT: 3.472 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

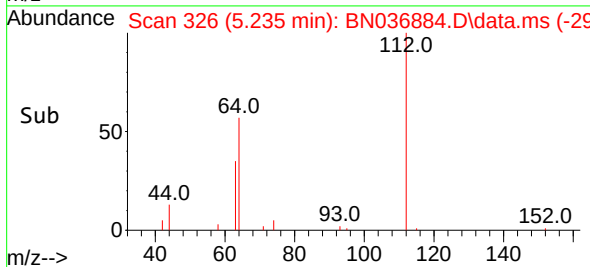
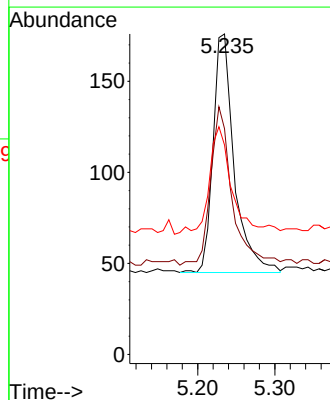
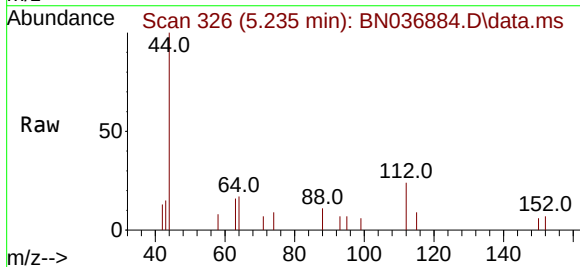
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

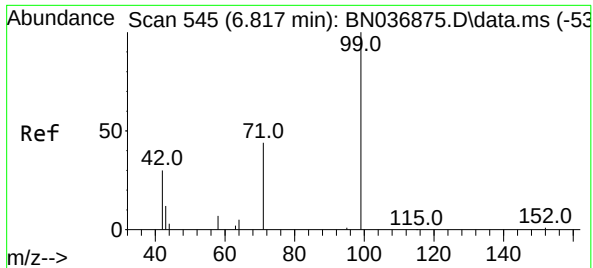
Tgt Ion: 42 Resp: 310
Ion Ratio Lower Upper
42 100
74 62.6 54.6 81.8
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.235 min Scan# 326
Delta R.T. 0.007 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion: 112 Resp: 249
Ion Ratio Lower Upper
112 100
64 69.1 54.0 81.0
63 45.8 35.1 52.7

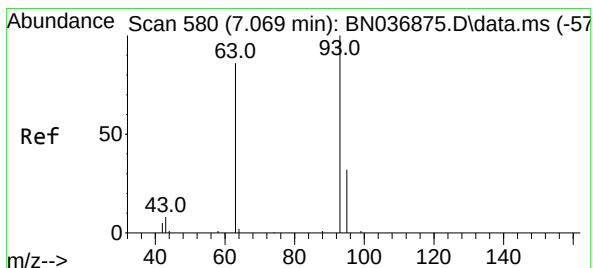
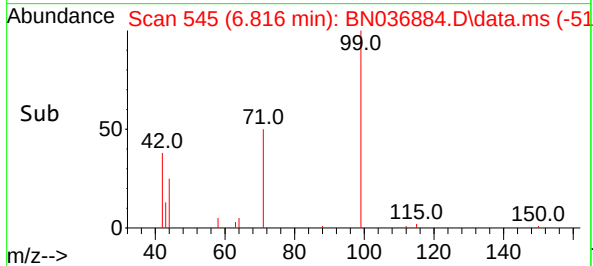
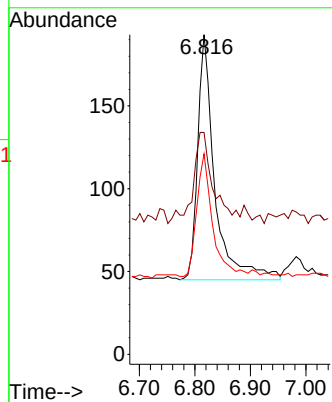
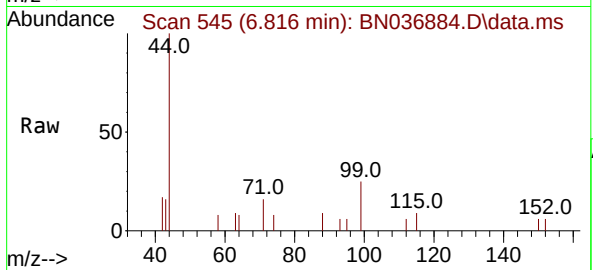




#5
Phenol-d6
Concen: 0.414 ng
RT: 6.816 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

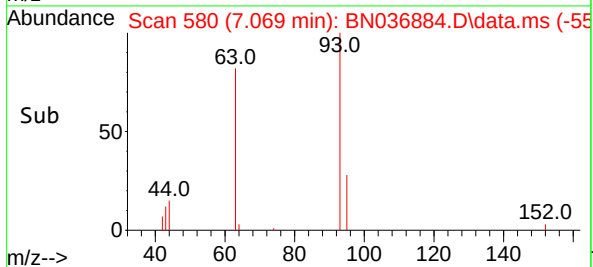
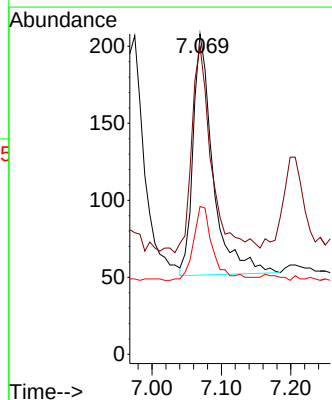
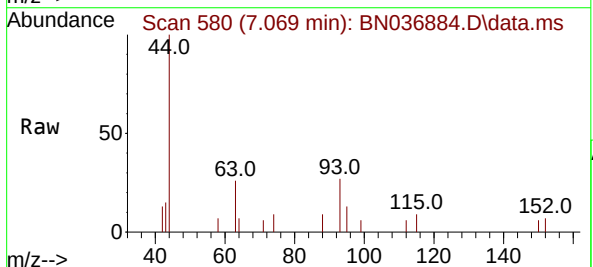
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

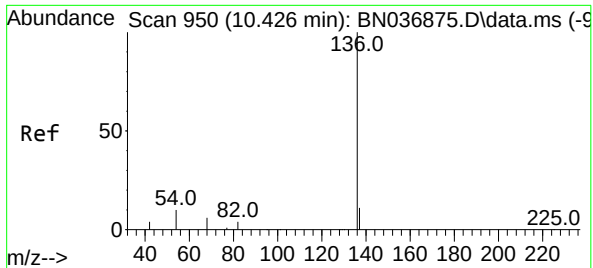
Tgt Ion: 99 Resp: 316
Ion Ratio Lower Upper
99 100
42 42.4 30.9 46.3
71 46.2 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.416 ng
RT: 7.069 min Scan# 580
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion: 93 Resp: 312
Ion Ratio Lower Upper
93 100
63 85.6 76.4 114.6
95 30.1 26.1 39.1

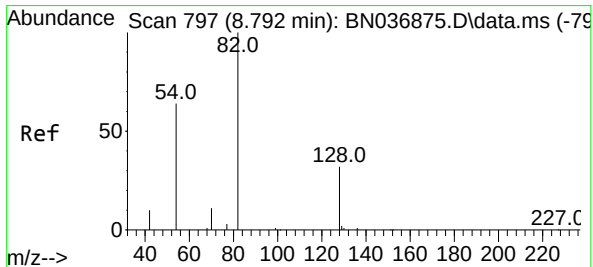
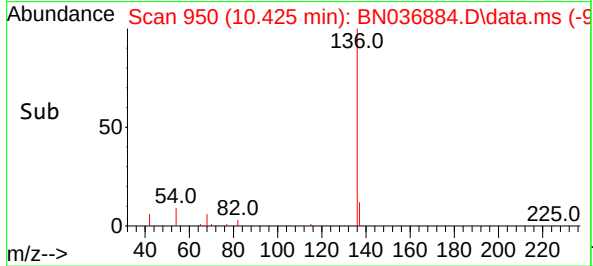
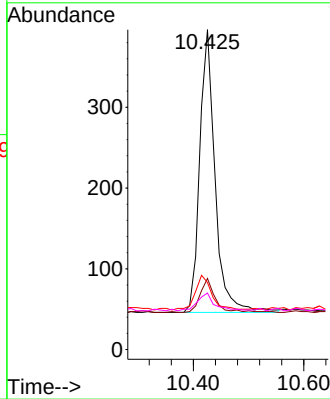
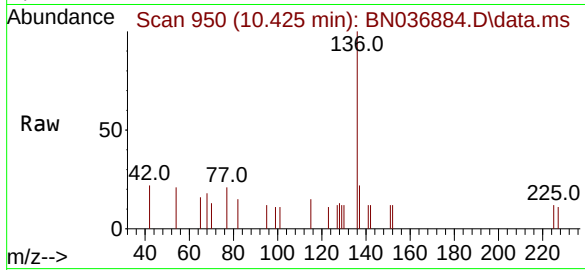




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.425 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

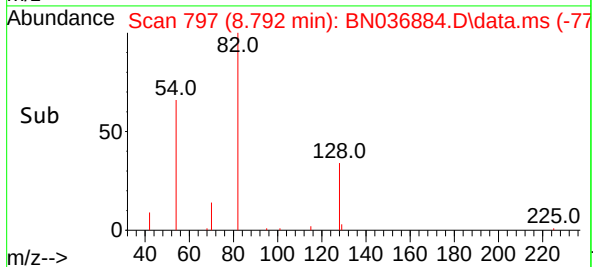
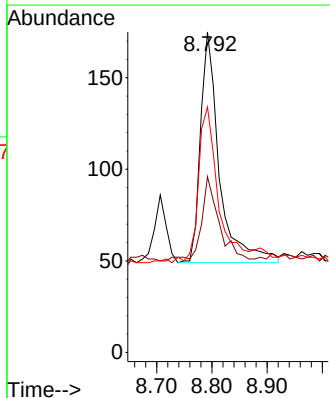
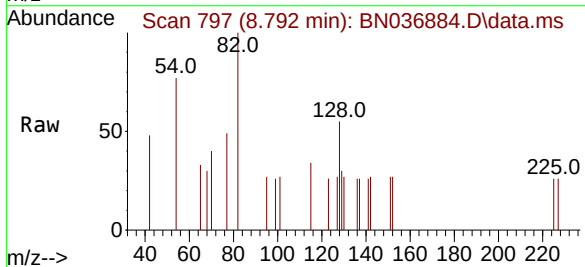
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

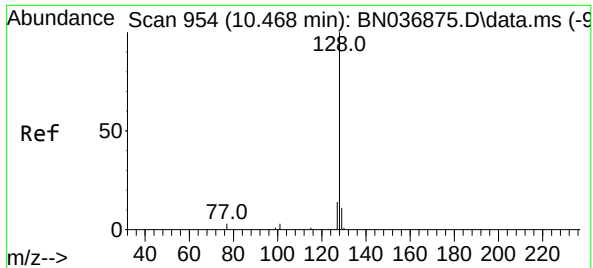
Tgt Ion:	136	Resp:	679
Ion	Ratio	Lower	Upper
136	100		
137	22.2	13.5	20.3#
54	21.0	12.8	19.2#
68	17.7	10.1	15.1#



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.792 min Scan# 797
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	82	Resp:	300
Ion	Ratio	Lower	Upper
82	100		
128	54.9	35.5	53.3#
54	76.6	56.2	84.4

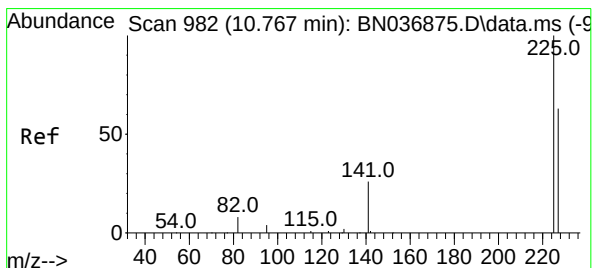
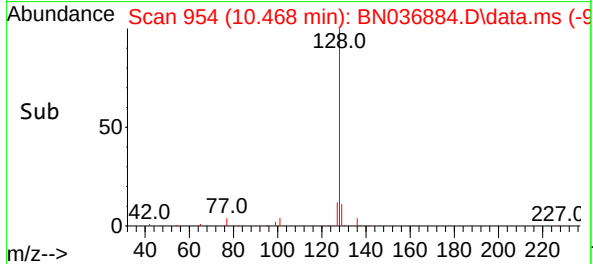
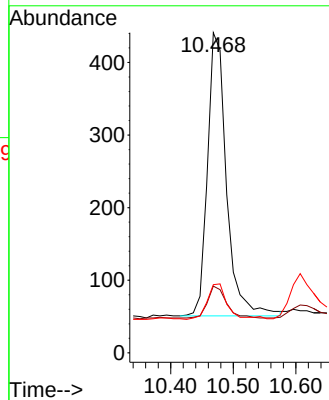
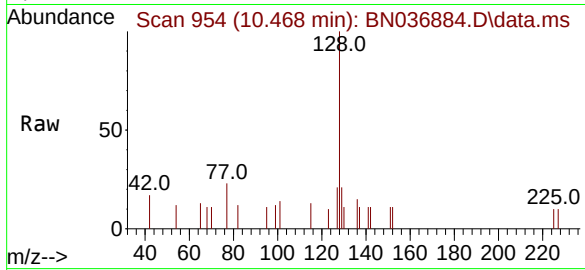




#9
Naphthalene
Concen: 0.420 ng
RT: 10.468 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

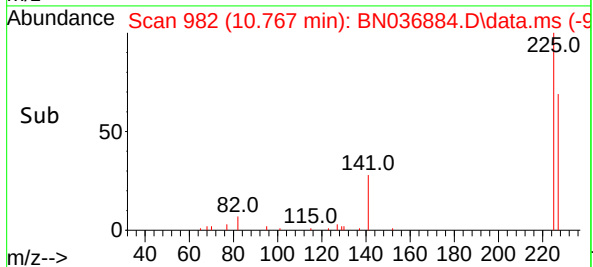
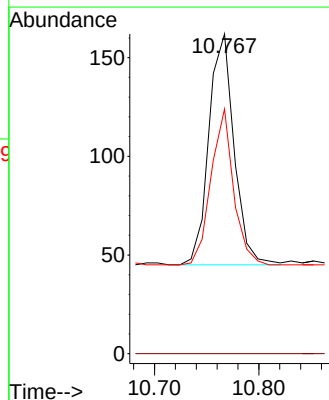
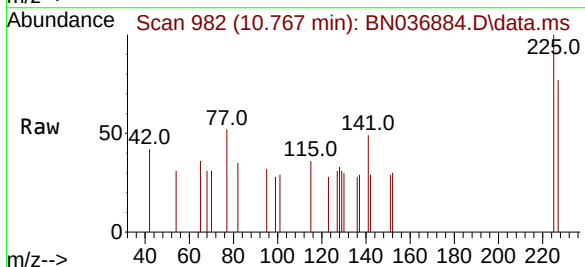
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

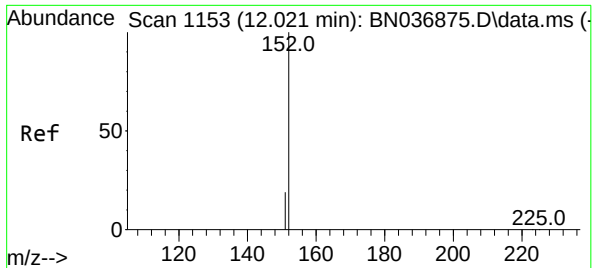
Tgt Ion:	128	Resp:	821
Ion	Ratio	Lower	Upper
128	100		
129	20.9	12.9	19.3#
127	21.3	15.0	22.6



#10
Hexachlorobutadiene
Concen: 0.445 ng
RT: 10.767 min Scan# 982
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	225	Resp:	197
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.4	50.5	75.7

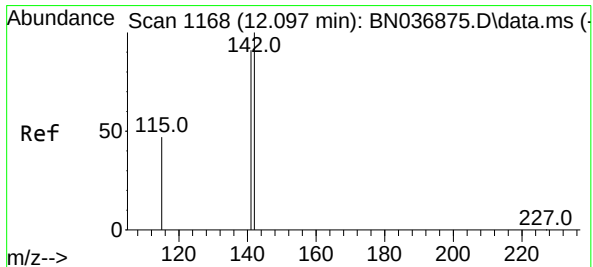
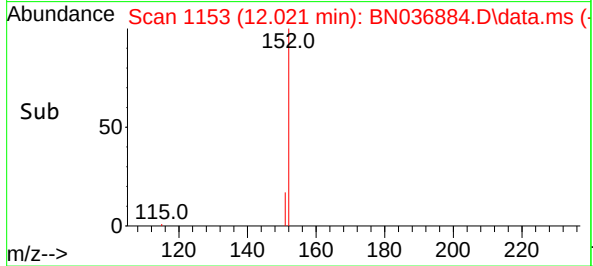
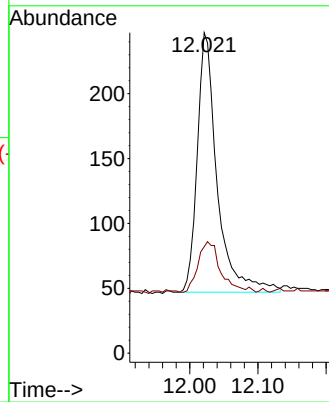
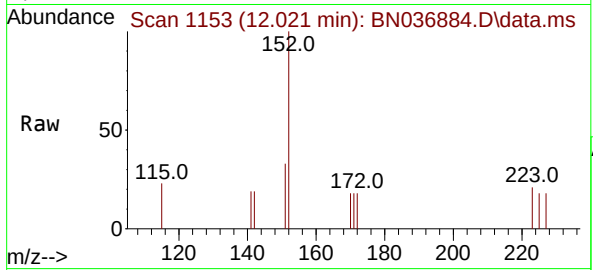




#11
2-Methylnaphthalene-d10
Concen: 0.410 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

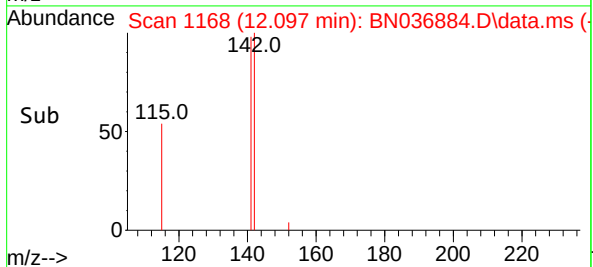
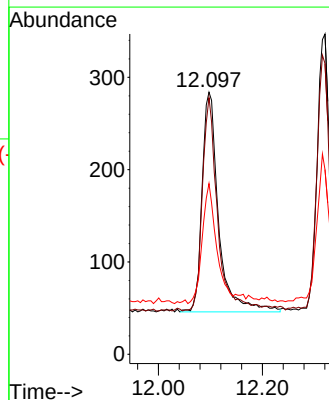
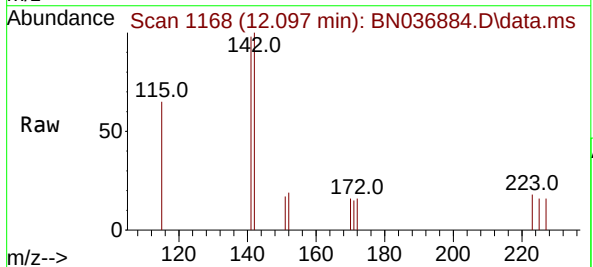
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

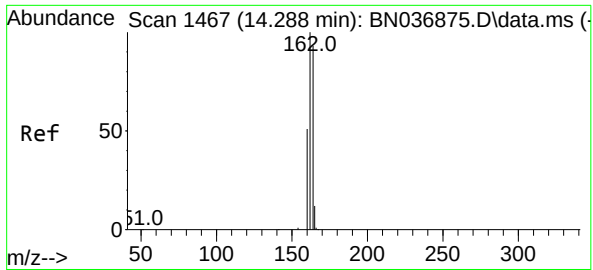
Tgt Ion:152 Resp: 405
Ion Ratio Lower Upper
152 100
151 22.0 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.418 ng
RT: 12.097 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:142 Resp: 526
Ion Ratio Lower Upper
142 100
141 97.9 73.8 110.8
115 65.1 43.3 64.9#

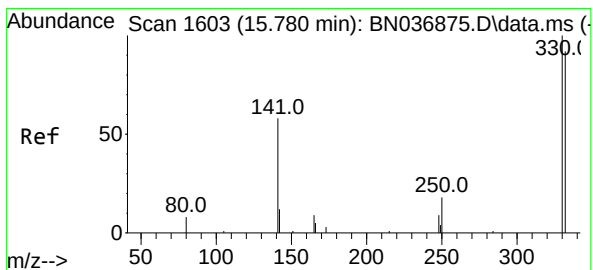
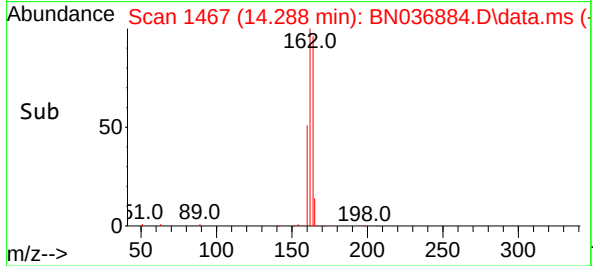
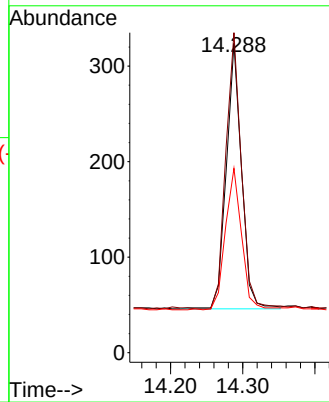
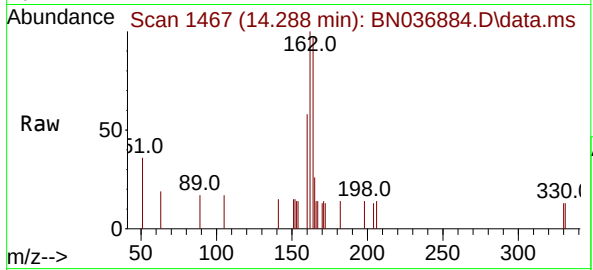




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

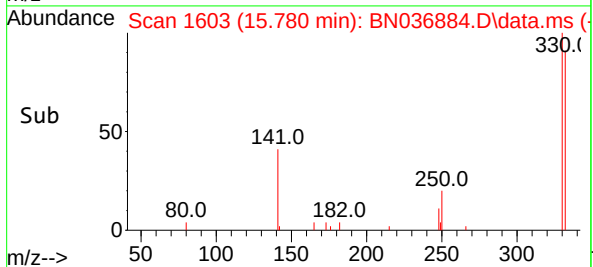
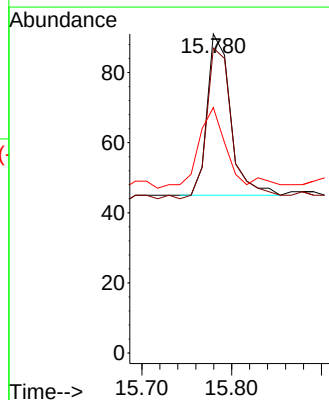
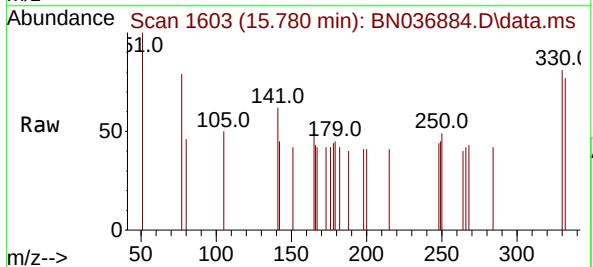
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

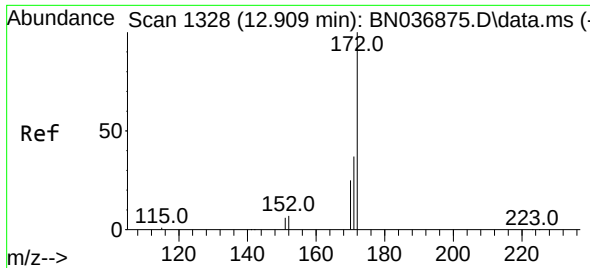
Tgt Ion:164 Resp: 407
Ion Ratio Lower Upper
164 100
162 103.4 85.7 128.5
160 59.6 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.780 min Scan# 1603
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:330 Resp: 83
Ion Ratio Lower Upper
330 100
332 103.6 87.0 130.6
141 63.9 45.3 67.9

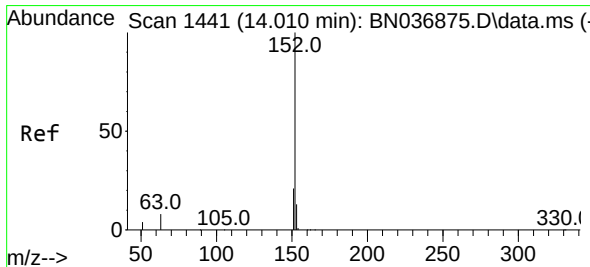
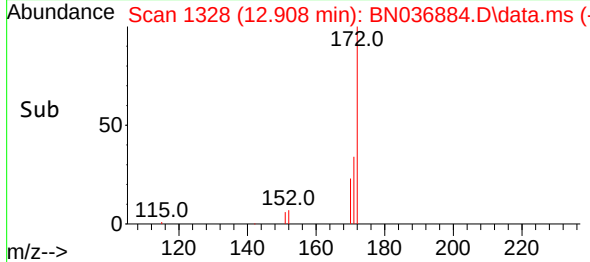
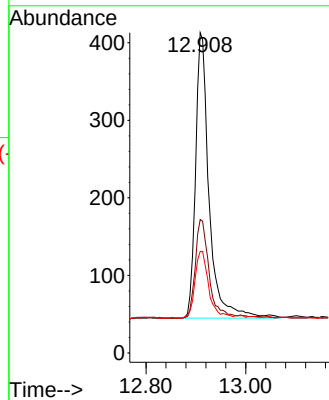
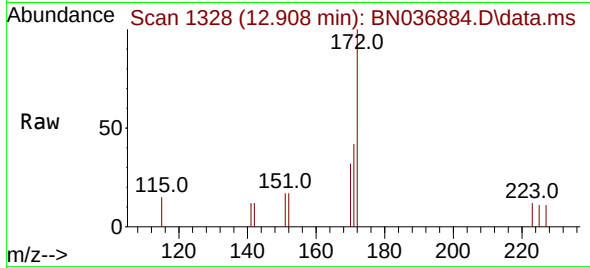




#15
2-Fluorobiphenyl
Concen: 0.420 ng
RT: 12.908 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

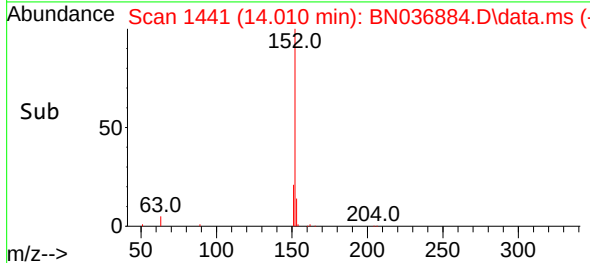
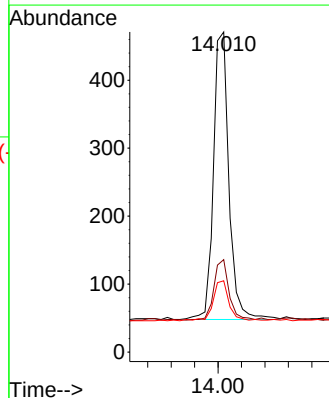
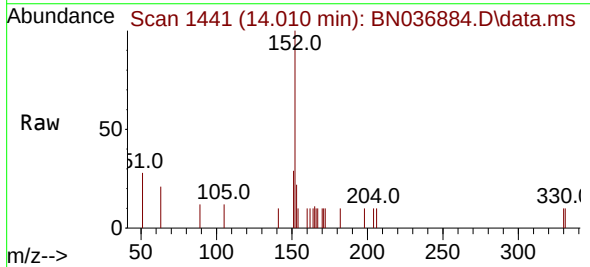
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

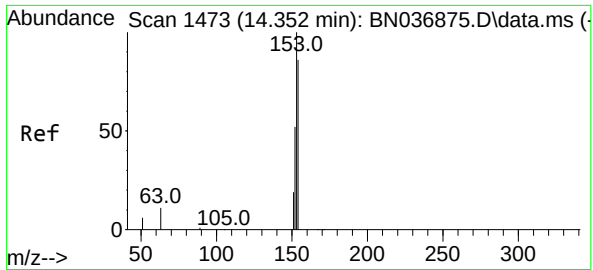
Tgt Ion:	172	Resp:	821
Ion	Ratio	Lower	Upper
172	100		
171	41.6	32.7	49.1
170	31.7	23.3	34.9



#16
Acenaphthylene
Concen: 0.408 ng
RT: 14.010 min Scan# 1441
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	152	Resp:	772
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.4	24.6
153	14.6	10.3	15.5

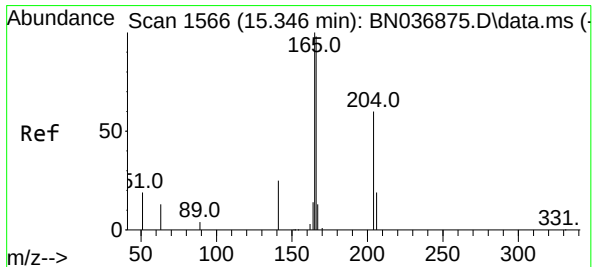
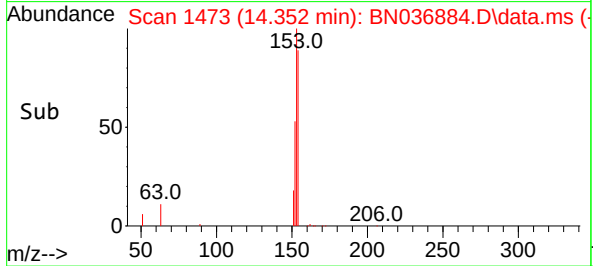
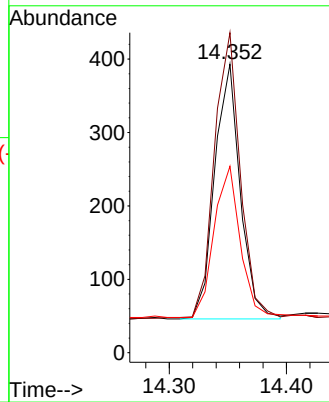
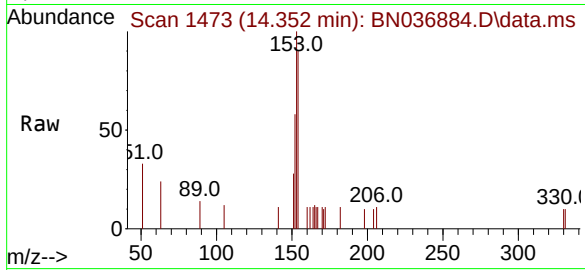




#17
Acenaphthene
Concen: 0.428 ng
RT: 14.352 min Scan# 1473
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

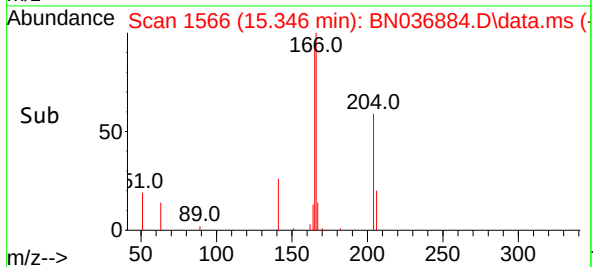
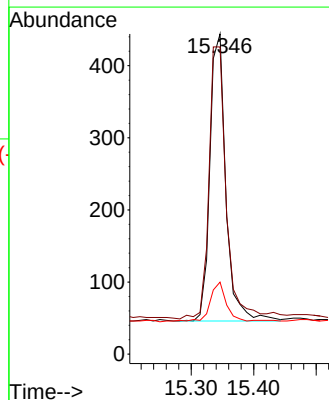
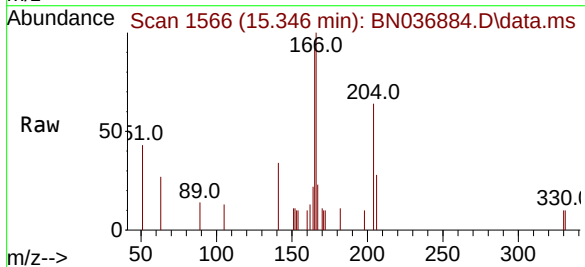
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

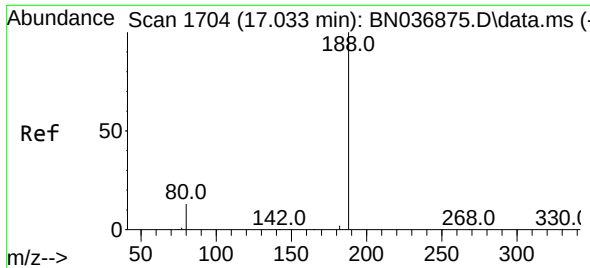
Tgt Ion:	154	Resp:	527
Ion	Ratio	Lower	Upper
154	100		
153	114.8	97.8	146.6
152	62.2	52.7	79.1



#18
Fluorene
Concen: 0.415 ng
RT: 15.346 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	166	Resp:	705
Ion	Ratio	Lower	Upper
166	100		
165	103.1	83.2	124.8
167	14.3	11.1	16.7

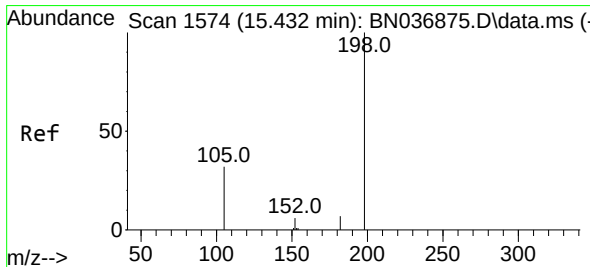
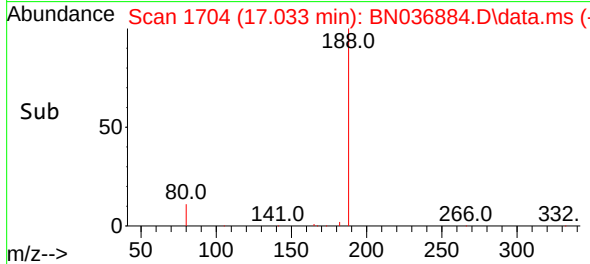
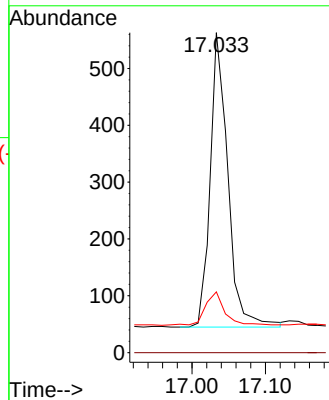
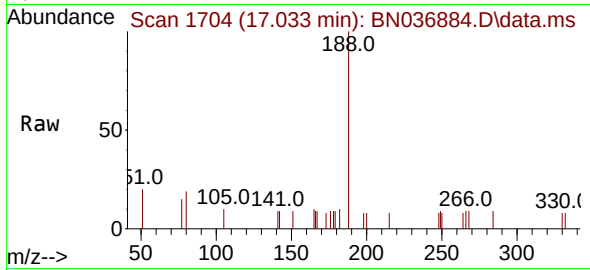




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

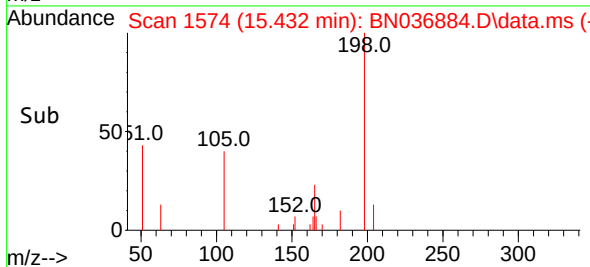
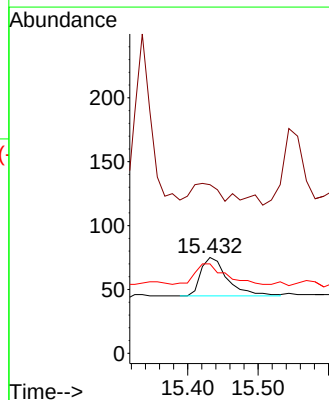
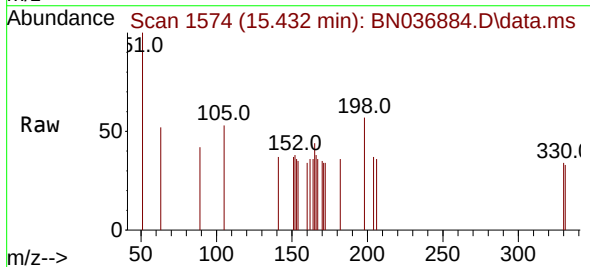
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

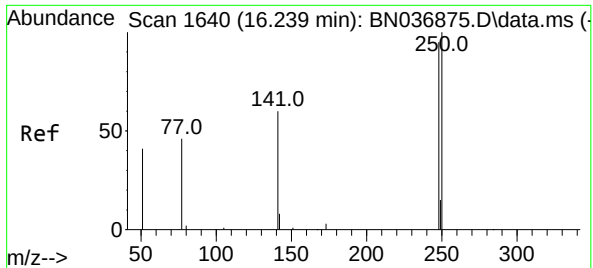
Tgt Ion	188	Resp	865
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	19.0	13.9	20.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion	198	Resp	81
Ion Ratio	Lower	Upper	
198	100		
51	176.0	107.6	161.4#
105	93.3	55.2	82.8#

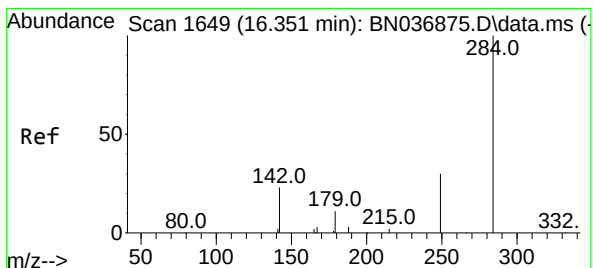
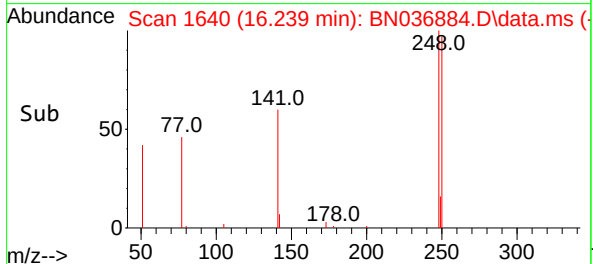
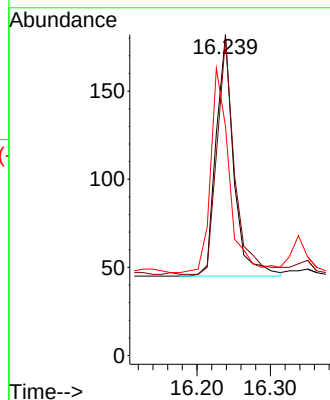
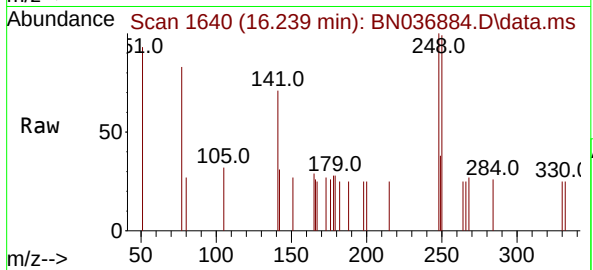




#21
4-Bromophenyl-phenylether
Concen: 0.442 ng
RT: 16.239 min Scan# 1640
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

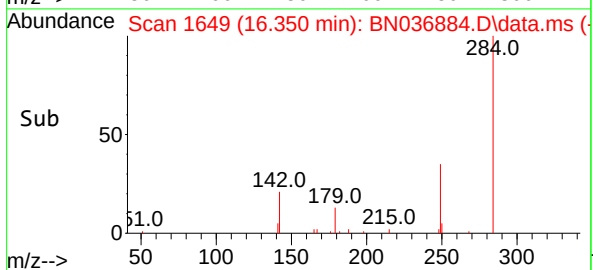
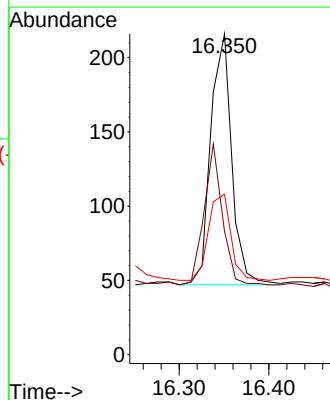
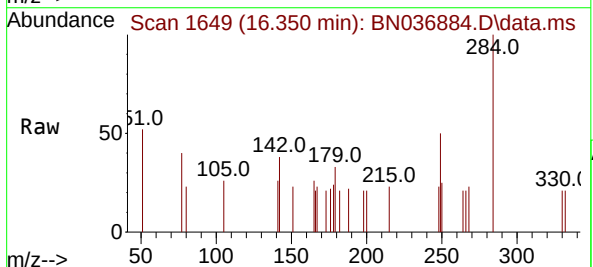
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

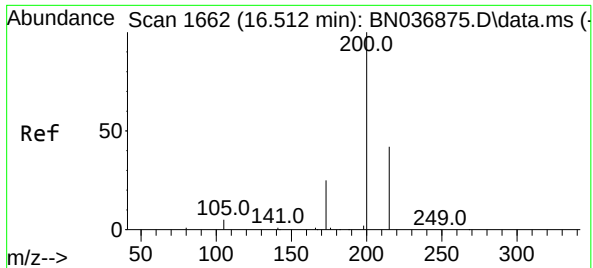
Tgt Ion:248 Resp: 229
Ion Ratio Lower Upper
248 100
250 98.9 83.5 125.3
141 71.4 55.3 82.9



#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 16.350 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:284 Resp: 276
Ion Ratio Lower Upper
284 100
142 48.2 37.7 56.5
249 36.6 29.0 43.6

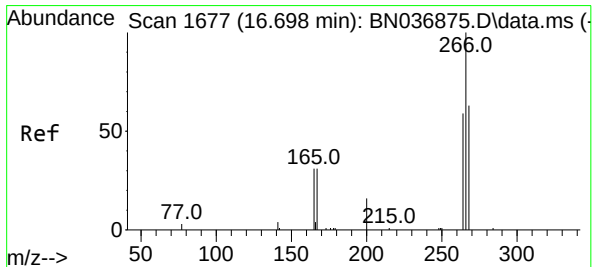
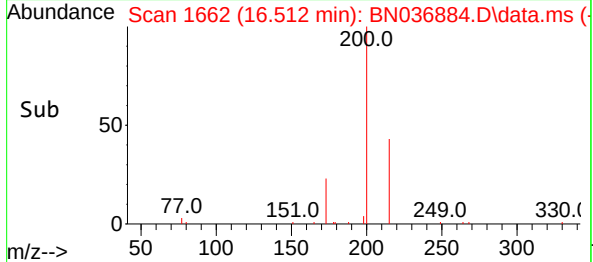
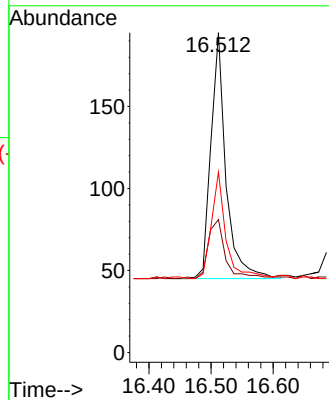
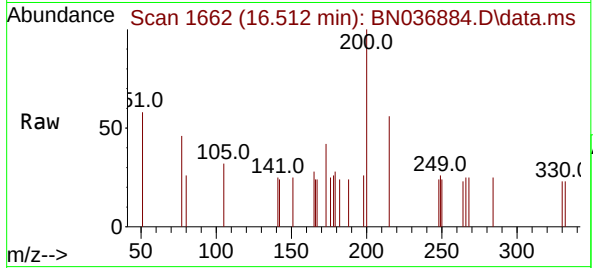




#23
Atrazine
Concen: 0.499 ng
RT: 16.512 min Scan# 1662
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

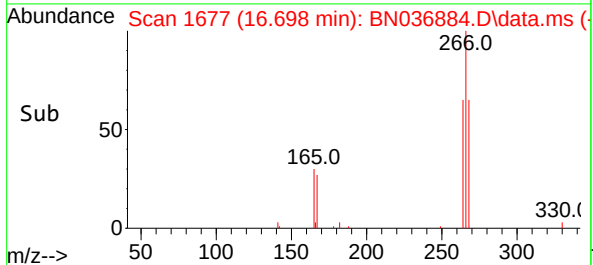
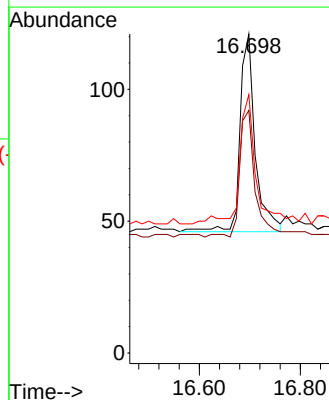
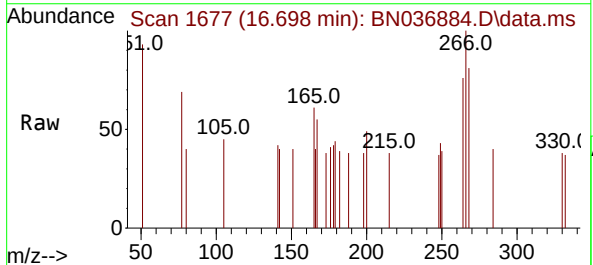
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

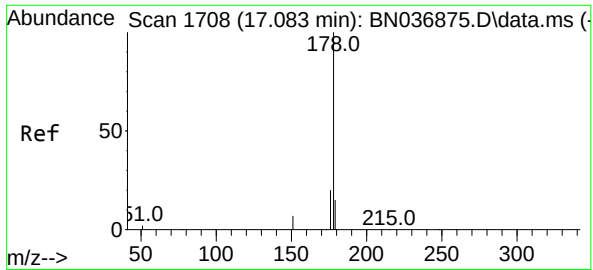
Tgt Ion	Ratio	Lower	Upper
200	100		
173	41.5	28.6	43.0
215	56.4	40.5	60.7



#24
Pentachlorophenol
Concen: 0.489 ng
RT: 16.698 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion	Ratio	Lower	Upper
266	100		
264	69.4	44.6	66.8
268	64.3	51.8	77.6

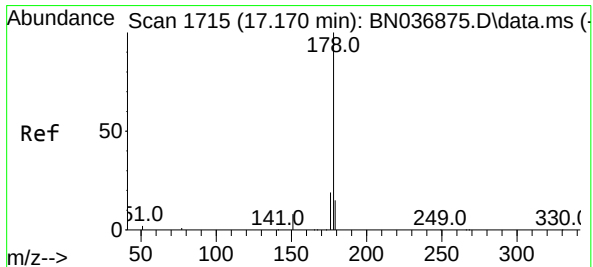
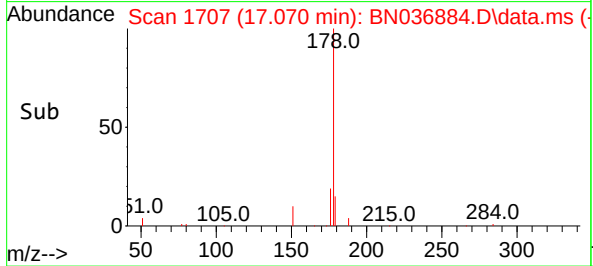
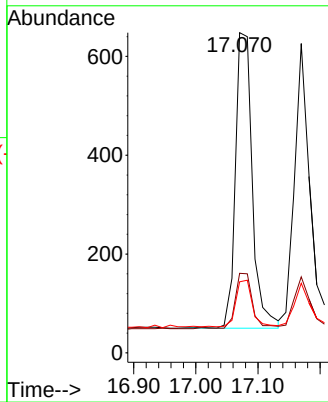
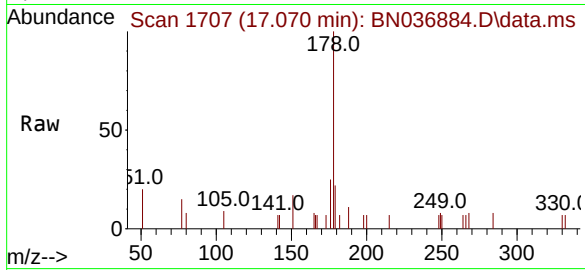




#25
Phenanthrene
Concen: 0.437 ng
RT: 17.070 min Scan# 1707
Delta R.T. -0.013 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

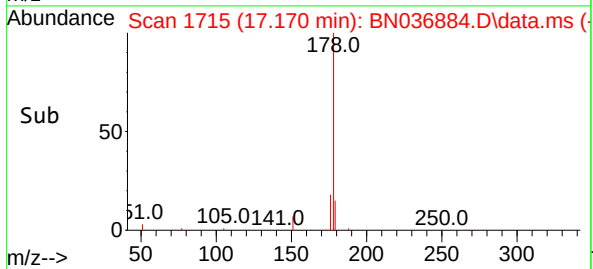
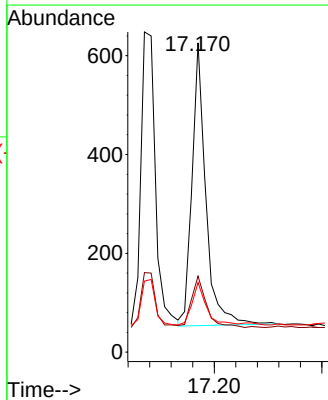
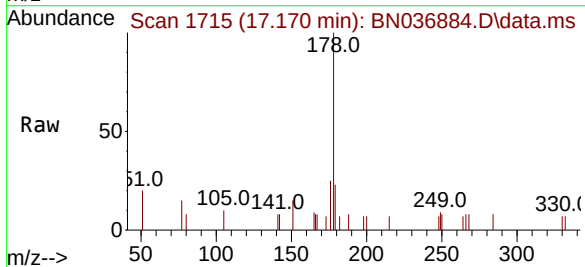
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

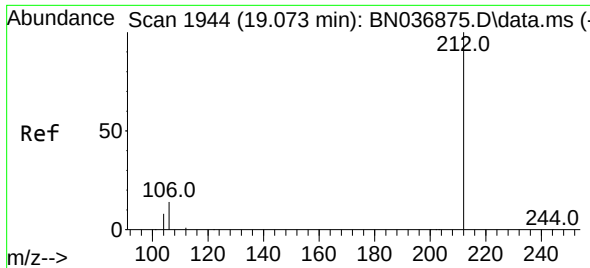
Tgt Ion:	178	Resp:	1134
Ion	Ratio	Lower	Upper
178	100		
176	18.4	16.6	25.0
179	15.1	12.8	19.2



#26
Anthracene
Concen: 0.442 ng
RT: 17.170 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	178	Resp:	1021
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	15.3	12.6	18.8

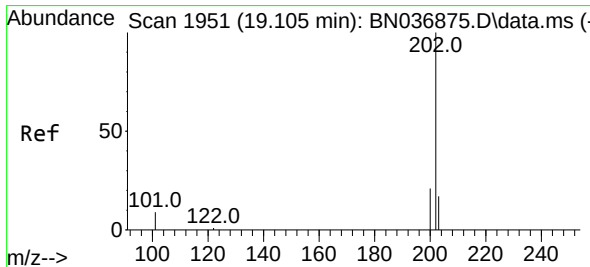
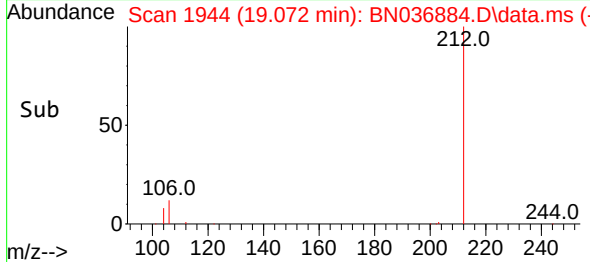
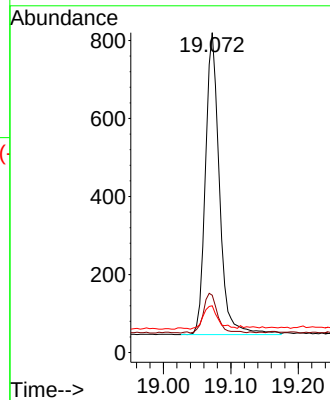
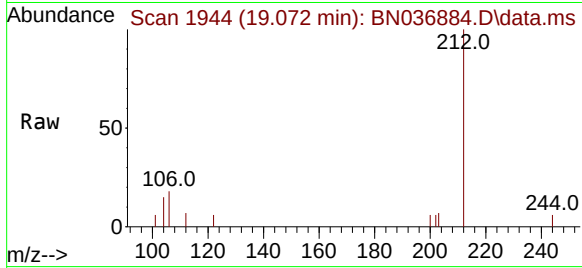




#27
Fluoranthene-d10
Concen: 0.458 ng
RT: 19.072 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

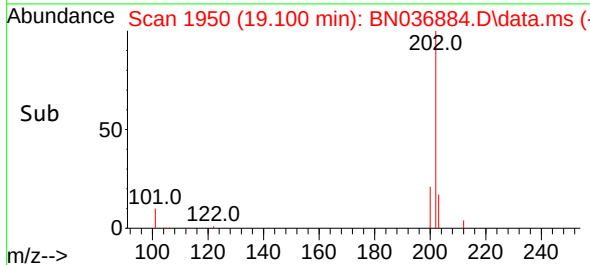
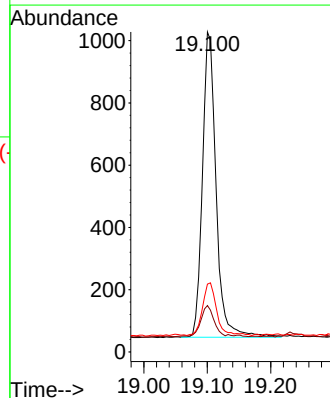
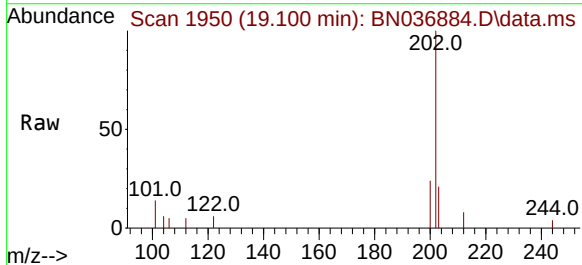
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

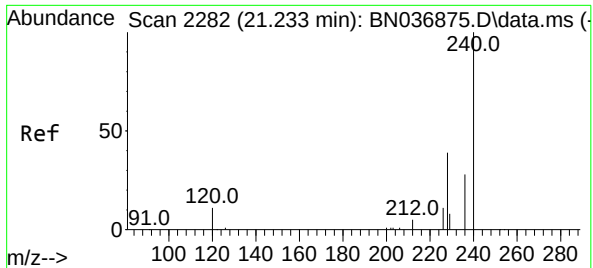
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.3	11.2	16.8
104	8.2	7.5	11.3



#28
Fluoranthene
Concen: 0.450 ng
RT: 19.100 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.1	8.5	12.7
203	17.6	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036884.D

Acq: 11 Apr 2025 18:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

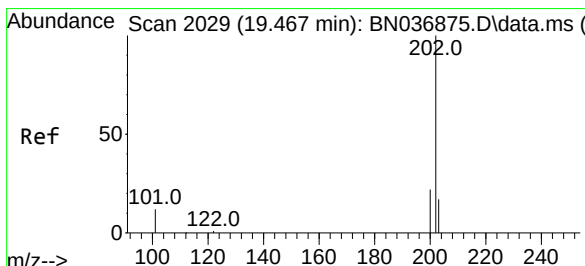
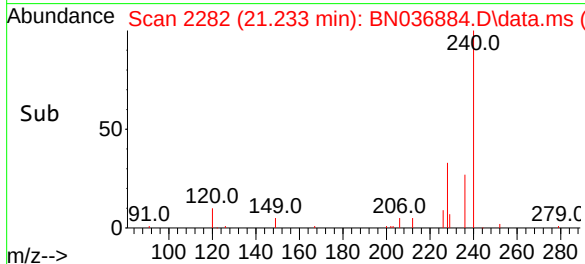
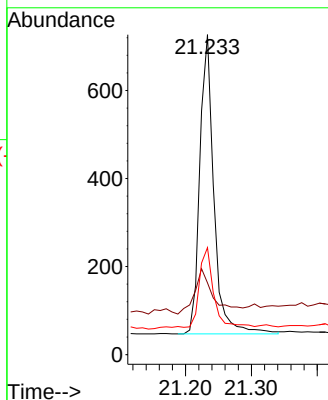
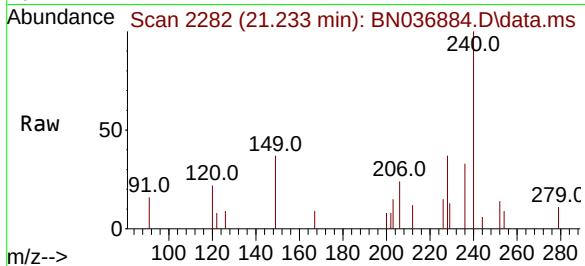
Tgt Ion:240 Resp: 1015

Ion Ratio Lower Upper

240 100

120 22.4 15.8 23.6

236 33.4 25.8 38.8



#30

Pyrene

Concen: 0.410 ng

RT: 19.467 min Scan# 2029

Delta R.T. -0.000 min

Lab File: BN036884.D

Acq: 11 Apr 2025 18:45

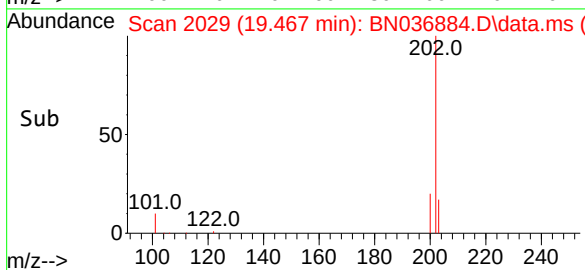
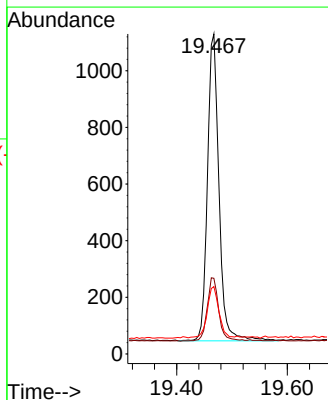
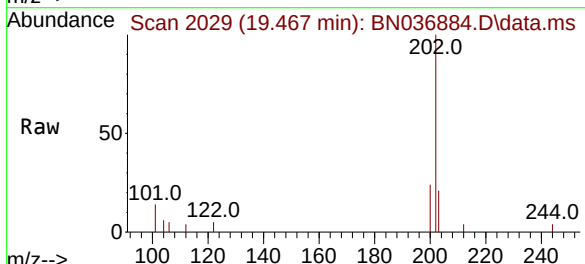
Tgt Ion:202 Resp: 1572

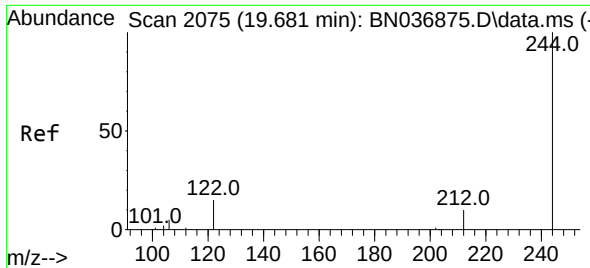
Ion Ratio Lower Upper

202 100

200 20.4 17.1 25.7

203 16.8 14.5 21.7

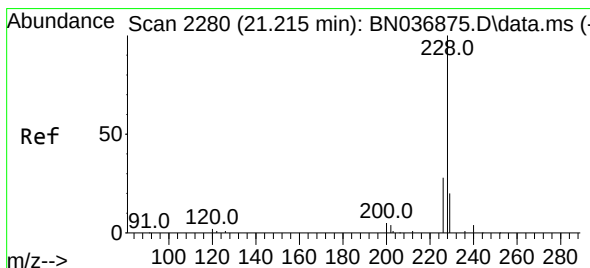
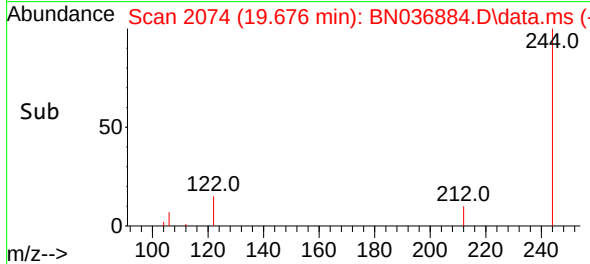
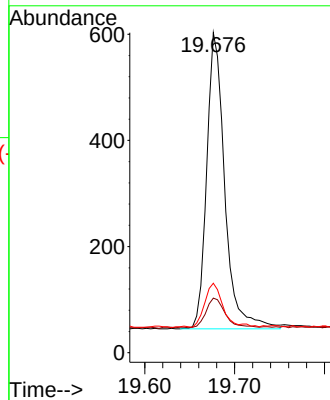
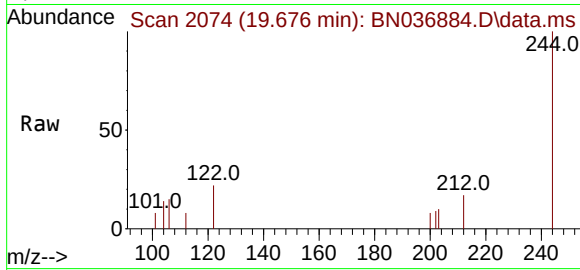




#31
Terphenyl-d14
Concen: 0.406 ng
RT: 19.676 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

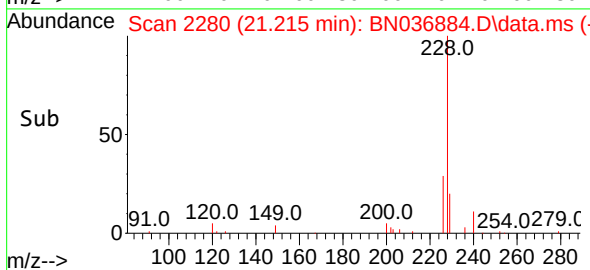
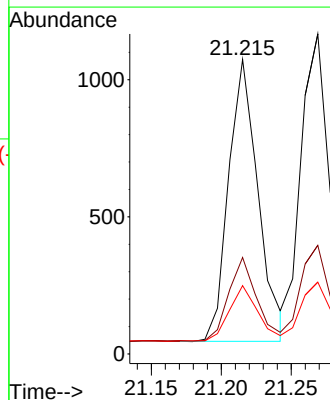
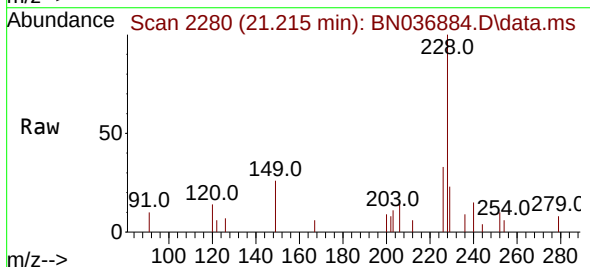
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

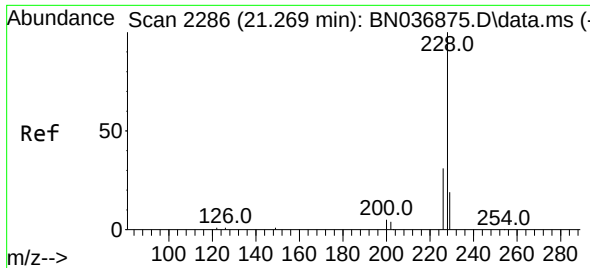
Tgt Ion	Ratio	Lower	Upper
244	100		
212	17.1	11.6	17.4
122	21.7	14.9	22.3



#32
Benzo(a)anthracene
Concen: 0.420 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.8	24.5	36.7
229	23.2	17.7	26.5





#33

Chrysene

Concen: 0.446 ng

RT: 21.269 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036884.D

Acq: 11 Apr 2025 18:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

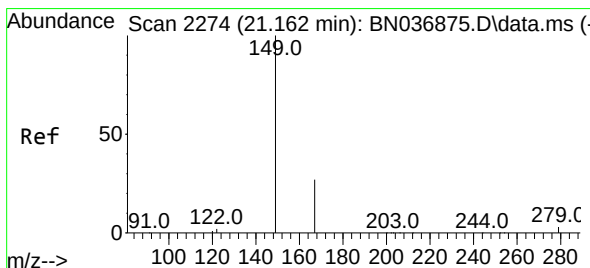
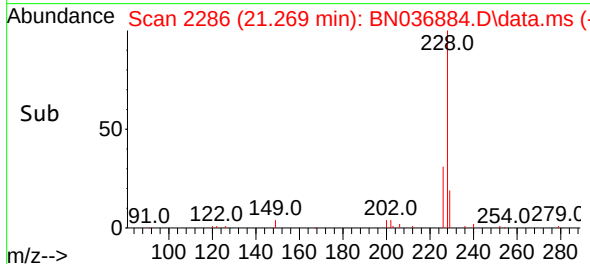
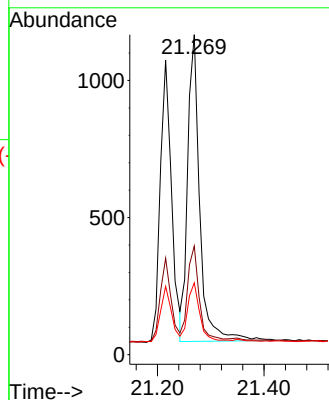
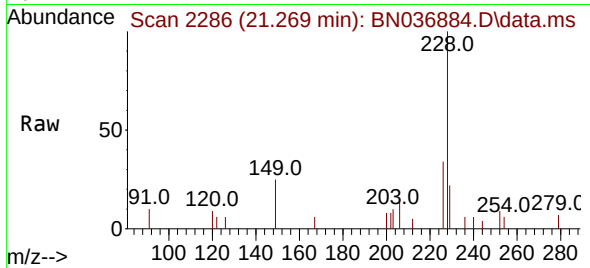
Tgt Ion:228 Resp: 1762

Ion Ratio Lower Upper

228 100

226 33.9 26.1 39.1

229 22.5 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.452 ng

RT: 21.152 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN036884.D

Acq: 11 Apr 2025 18:45

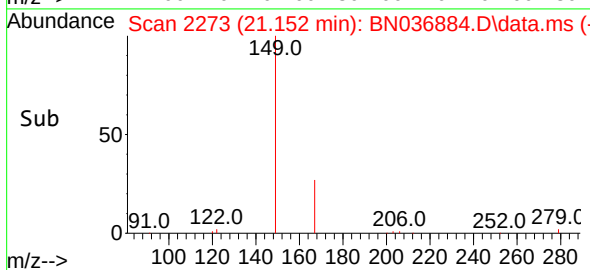
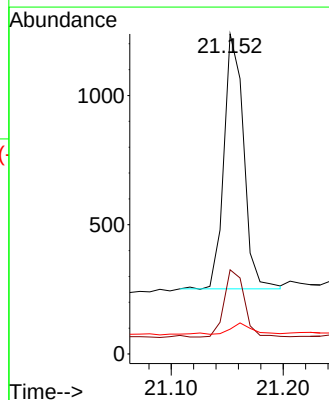
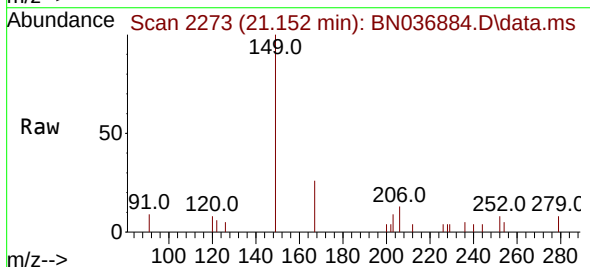
Tgt Ion:149 Resp: 1203

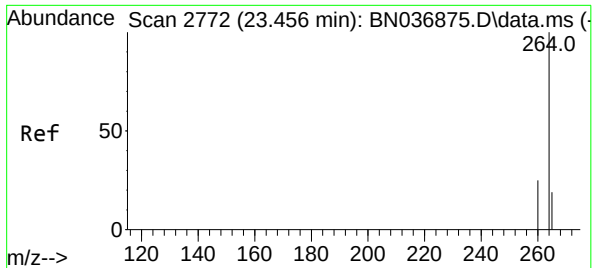
Ion Ratio Lower Upper

149 100

167 27.0 21.0 31.4

279 4.6 3.6 5.4

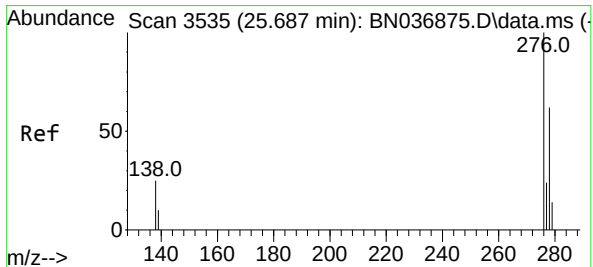
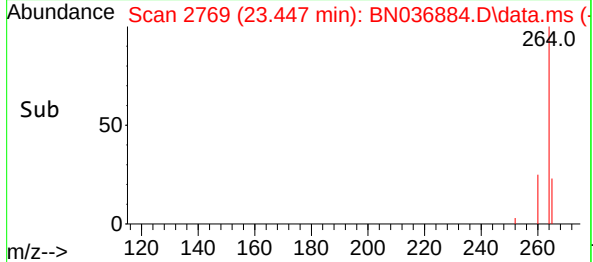
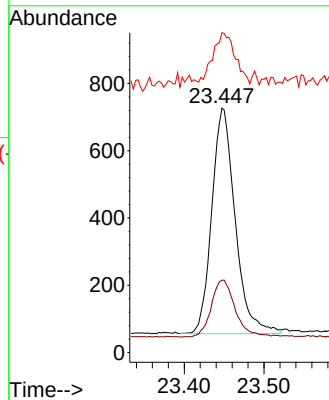
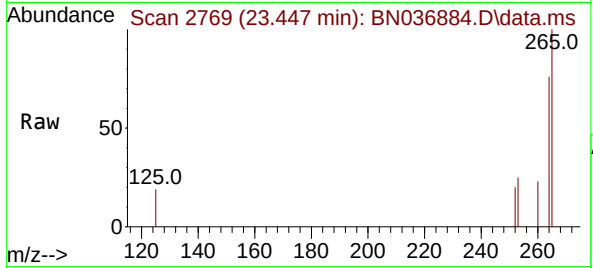




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

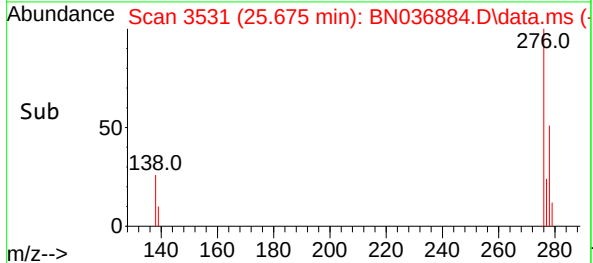
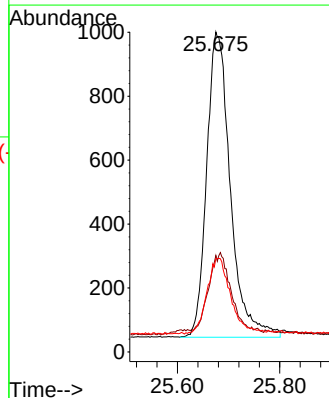
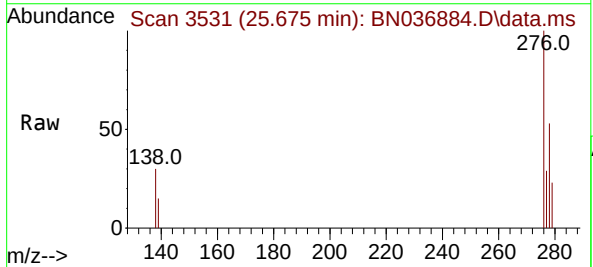
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

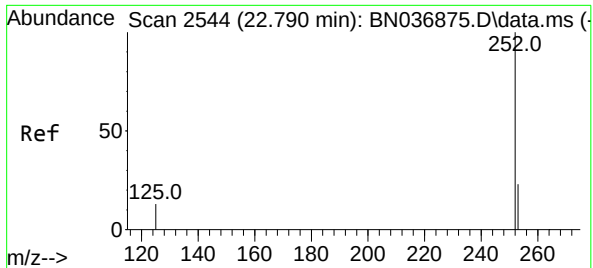
Tgt Ion:264 Resp: 1369
Ion Ratio Lower Upper
264 100
260 29.6 22.9 34.3
265 130.8 88.6 132.8



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.469 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.012 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:276 Resp: 3065
Ion Ratio Lower Upper
276 100
138 23.2 21.0 31.6
277 25.1 19.3 28.9

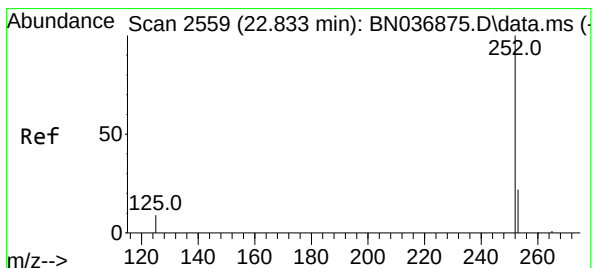
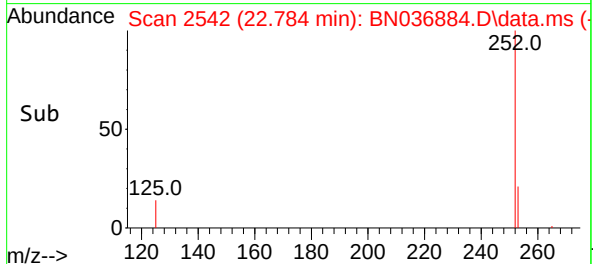
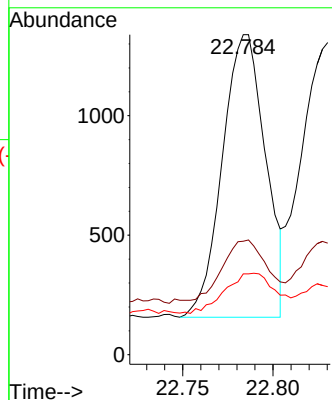
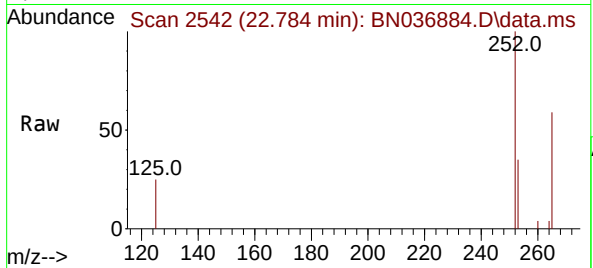




#37
Benzo(b)fluoranthene
Concen: 0.404 ng
RT: 22.784 min Scan# 2542
Delta R.T. -0.006 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

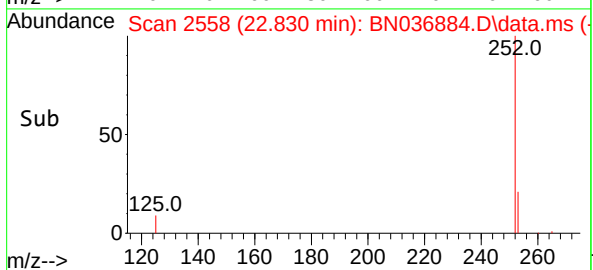
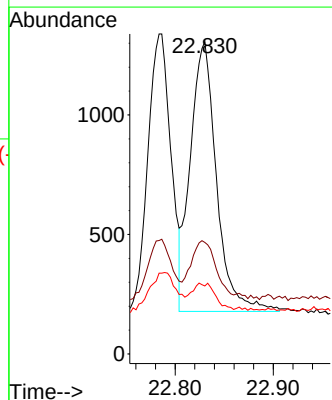
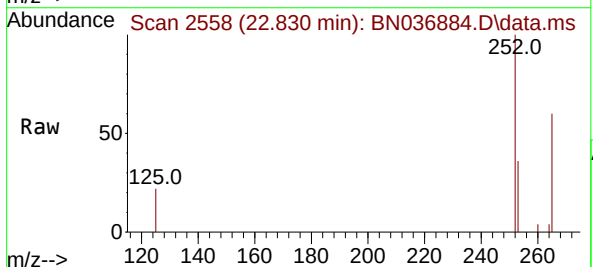
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

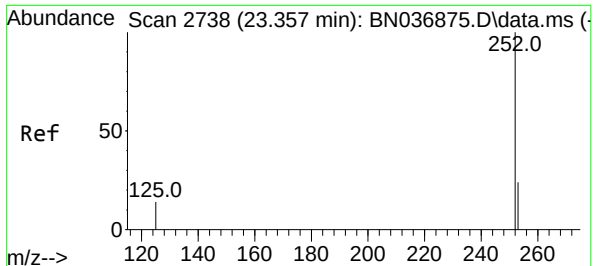
Tgt Ion:252 Resp: 1963
Ion Ratio Lower Upper
252 100
253 35.5 27.0 40.6
125 25.2 17.7 26.5



#38
Benzo(k)fluoranthene
Concen: 0.429 ng m
RT: 22.830 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:252 Resp: 2101
Ion Ratio Lower Upper
252 100
253 35.8 26.7 40.1
125 21.8 16.9 25.3





#39

Benzo(a)pyrene

Concen: 0.446 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036884.D

Acq: 11 Apr 2025 18:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

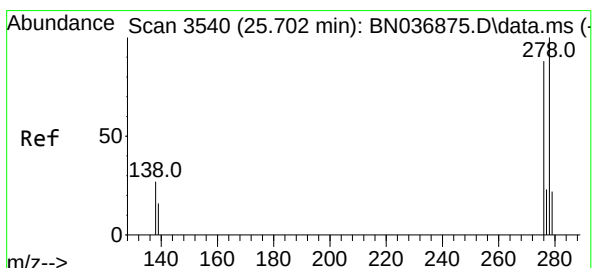
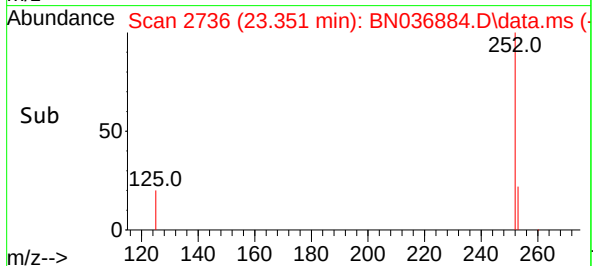
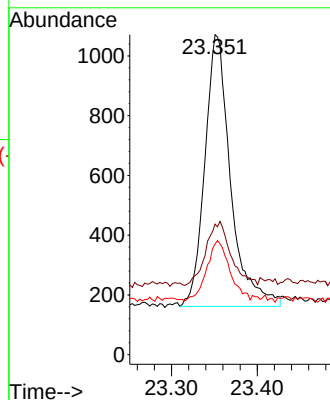
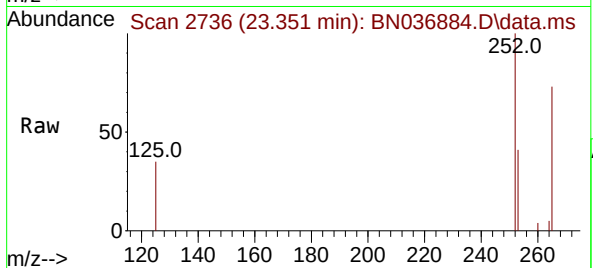
Tgt Ion:252 Resp: 1900

Ion Ratio Lower Upper

252 100

253 40.8 31.5 47.3

125 34.5 22.6 34.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.470 ng

RT: 25.693 min Scan# 3537

Delta R.T. -0.009 min

Lab File: BN036884.D

Acq: 11 Apr 2025 18:45

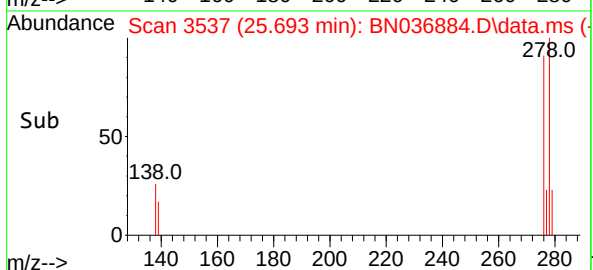
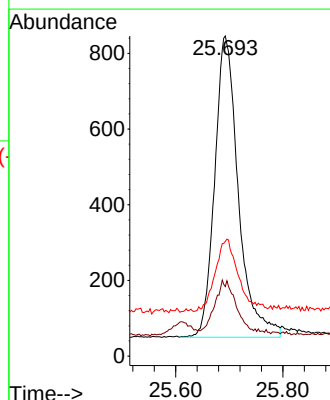
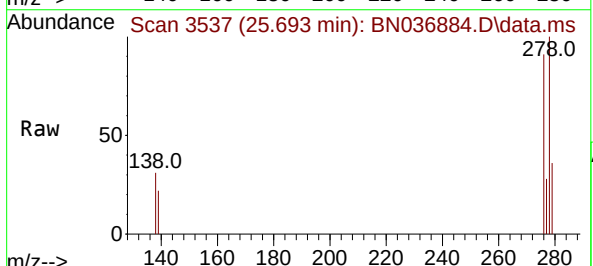
Tgt Ion:278 Resp: 2440

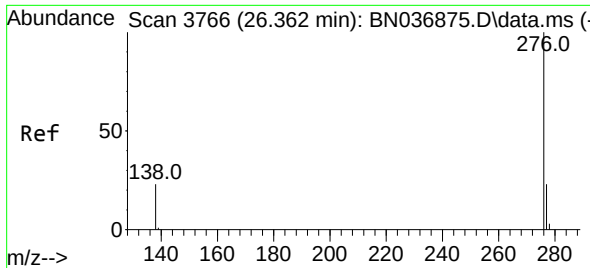
Ion Ratio Lower Upper

278 100

139 21.7 17.6 26.4

279 35.8 26.7 40.1





#41

Benzo(g,h,i)perylene

Concen: 0.463 ng

RT: 26.359 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036884.D

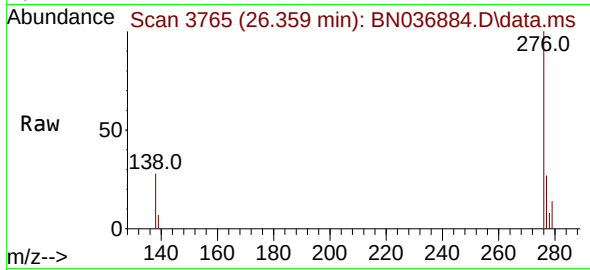
Acq: 11 Apr 2025 18:45

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



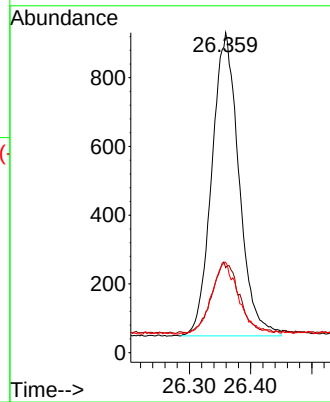
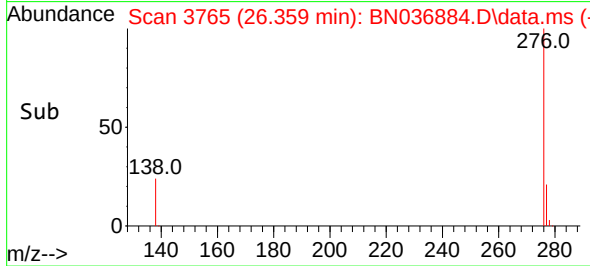
Tgt Ion:276 Resp: 2713

Ion Ratio Lower Upper

276 100

277 26.5 21.8 32.8

138 28.2 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036884.D
 Acq On : 11 Apr 2025 18:45
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Apr 11 23:05:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 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	52	0.00
2	1,4-Dioxane	0.464	0.386	16.8	45#	0.00
3	n-Nitrosodimethylamine	1.028	1.220	-18.7	58	0.00
4 S	2-Fluorophenol	0.941	0.980	-4.1	53	0.00
5 S	Phenol-d6	1.203	1.244	-3.4	54	0.00
6	bis(2-Chloroethyl)ether	1.180	1.228	-4.1	54	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	54	0.00
8 S	Nitrobenzene-d5	0.444	0.442	0.5	53	0.00
9	Naphthalene	1.151	1.209	-5.0	56	0.00
10	Hexachlorobutadiene	0.261	0.290	-11.1	55	0.00
11 SURR	2-Methylnaphthalene-d10	0.582	0.596	-2.4	54	0.00
12	2-Methylnaphthalene	0.741	0.775	-4.6	55	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	55	0.00
14 S	2,4,6-Tribromophenol	0.193	0.204	-5.7	61	0.00
15 S	2-Fluorobiphenyl	1.921	2.017	-5.0	55	0.00
16	Acenaphthylene	1.858	1.897	-2.1	55	0.00
17	Acenaphthene	1.210	1.295	-7.0	57	0.00
18	Fluorene	1.669	1.732	-3.8	56	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	55	0.00
20	4,6-Dinitro-2-methylphenol	0.095	0.094	1.1	54	0.00
21	4-Bromophenyl-phenylether	0.240	0.265	-10.4	56	0.00
22	Hexachlorobenzene	0.284	0.319	-12.3	57	0.00
23	Atrazine	0.234	0.292	-24.8	61	0.00
24	Pentachlorophenol	0.149	0.182	-22.1	62	0.00
25	Phenanthrene	1.199	1.311	-9.3	55	-0.01
26	Anthracene	1.069	1.180	-10.4	56	0.00
27 SURR	Fluoranthene-d10	1.127	1.290	-14.5	58	0.00
28	Fluoranthene	1.509	1.697	-12.5	58	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	62	0.00
30	Pyrene	1.512	1.549	-2.4	60	0.00
31 S	Terphenyl-d14	0.760	0.770	-1.3	59	0.00
32	Benzo(a)anthracene	1.413	1.485	-5.1	66	0.00
33	Chrysene	1.558	1.736	-11.4	65	0.00
34	Bis(2-ethylhexyl)phthalate	1.049	1.185	-13.0	72	0.00
35 I	Perylene-d12	1.000	1.000	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	1.909	2.239	-17.3	80	-0.01
37	Benzo(b)fluoranthene	1.419	1.434	-1.1	68	0.00
38	Benzo(k)fluoranthene	1.432	1.535	-7.2	75	0.00
39 C	Benzo(a)pyrene	1.244	1.388	-11.6	74	0.00
40	Dibenzo(a,h)anthracene	1.516	1.782	-17.5	81	0.00
41	Benzo(g,h,i)perylene	1.714	1.982	-15.6	79	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036884.D
Acq On : 11 Apr 2025 18:45
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 11 23:05:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 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	52	0.00
2	1,4-Dioxane	0.400	0.333	16.8	45	0.00
3	n-Nitrosodimethylamine	0.400	0.475	-18.7	58	0.00
4 S	2-Fluorophenol	0.400	0.417	-4.2	53	0.00
5 S	Phenol-d6	0.400	0.414	-3.5	54	0.00
6	bis(2-Chloroethyl)ether	0.400	0.416	-4.0	54	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	54	0.00
8 S	Nitrobenzene-d5	0.400	0.398	0.5	53	0.00
9	Naphthalene	0.400	0.420	-5.0	56	0.00
10	Hexachlorobutadiene	0.400	0.445	-11.2	55	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.410	-2.5	54	0.00
12	2-Methylnaphthalene	0.400	0.418	-4.5	55	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	55	0.00
14 S	2,4,6-Tribromophenol	0.400	0.423	-5.7	61	0.00
15 S	2-Fluorobiphenyl	0.400	0.420	-5.0	55	0.00
16	Acenaphthylene	0.400	0.408	-2.0	55	0.00
17	Acenaphthene	0.400	0.428	-7.0	57	0.00
18	Fluorene	0.400	0.415	-3.7	56	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	55	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.395	1.3	54	0.00
21	4-Bromophenyl-phenylether	0.400	0.442	-10.5	56	0.00
22	Hexachlorobenzene	0.400	0.450	-12.5	57	0.00
23	Atrazine	0.400	0.499	-24.7	61	0.00
24	Pentachlorophenol	0.400	0.489	-22.2	62	0.00
25	Phenanthrene	0.400	0.437	-9.2	55	-0.01
26	Anthracene	0.400	0.442	-10.5	56	0.00
27 SURR	Fluoranthene-d10	0.400	0.458	-14.5	58	0.00
28	Fluoranthene	0.400	0.450	-12.5	58	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	62	0.00
30	Pyrene	0.400	0.410	-2.5	60	0.00
31 S	Terphenyl-d14	0.400	0.406	-1.5	59	0.00
32	Benzo(a)anthracene	0.400	0.420	-5.0	66	0.00
33	Chrysene	0.400	0.446	-11.5	65	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.452	-13.0	72	0.00
35 I	Perylene-d12	0.400	0.400	0.0	72	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.469	-17.2	80	-0.01
37	Benzo(b)fluoranthene	0.400	0.404	-1.0	68	0.00
38	Benzo(k)fluoranthene	0.400	0.429	-7.2	75	0.00
39 C	Benzo(a)pyrene	0.400	0.446	-11.5	74	0.00
40	Dibenzo(a,h)anthracene	0.400	0.470	-17.5	81	0.00
41	Benzo(g,h,i)perylene	0.400	0.463	-15.8	79	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.: Q1773 SAS No.: Q1773 SDG No.: Q1773

Instrument ID: BNA_N Calibration Date/Time: 04/12/2025 01:21

Lab File ID: BN036895.D Init. Calib. Date(s): 04/11/2025 04/11/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 11:42 15:42

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.582	0.635		9.1	50.0
Fluoranthene-d10	1.127	1.234		9.5	50.0
2-Fluorophenol	0.941	1.009		7.2	50.0
Phenol-d6	1.203	1.179		-2.0	50.0
Nitrobenzene-d5	0.444	0.413		-7.0	50.0
2-Fluorobiphenyl	1.921	1.956		1.8	50.0
2,4,6-Tribromophenol	0.193	0.212		9.8	50.0
Terphenyl-d14	0.760	0.765		0.7	50.0
1,4-Dioxane	0.464	0.513		10.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036895.D
 Acq On : 12 Apr 2025 01:21
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Apr 12 01:46:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

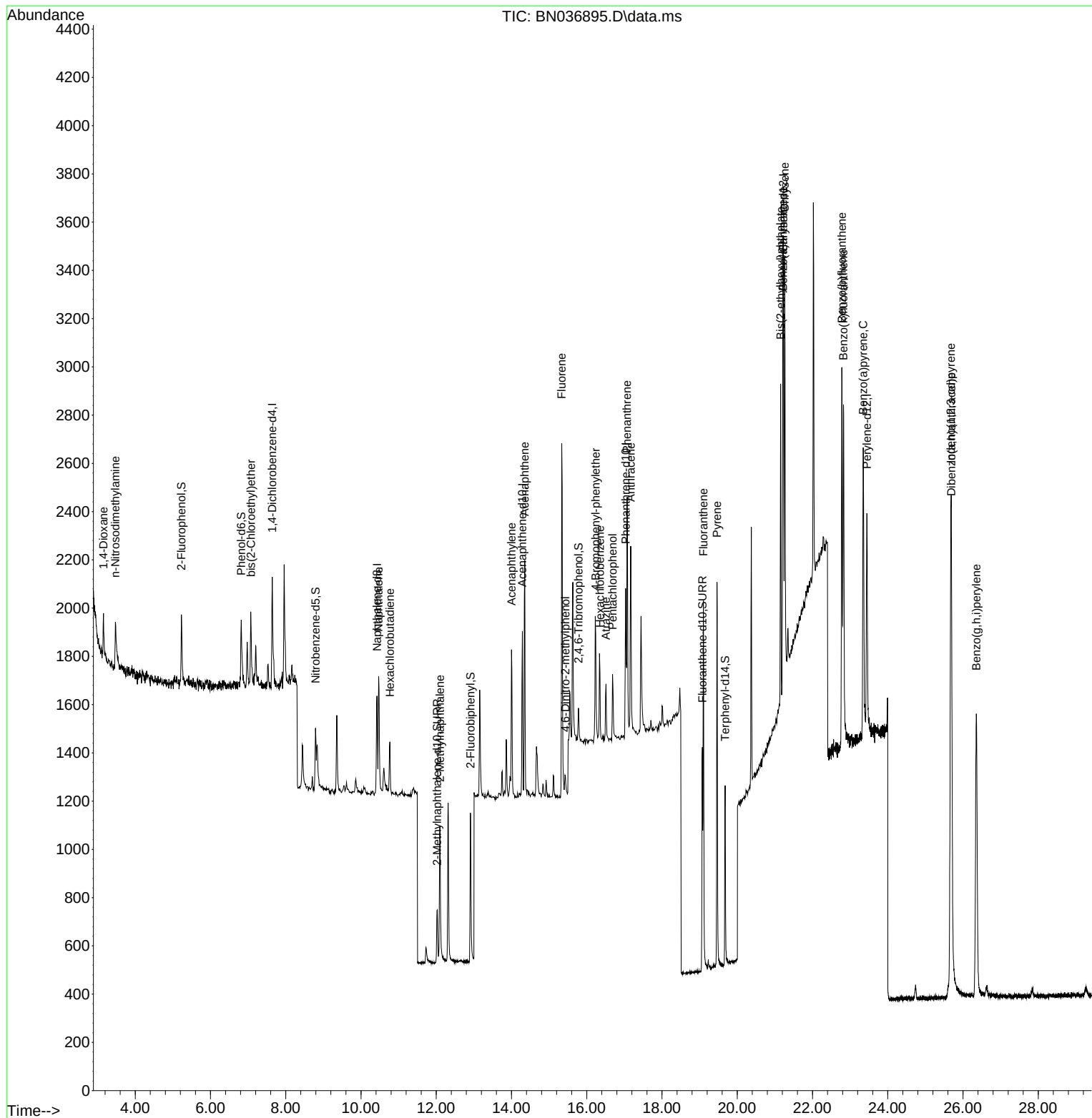
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	234	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	605	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	387	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	863	0.400	ng	0.00
29) Chrysene-d12	21.224	240	999	0.400	ng	# 0.00
35) Perylene-d12	23.445	264	1276	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	236	0.429	ng	0.00
5) Phenol-d6	6.817	99	276	0.392	ng	0.00
8) Nitrobenzene-d5	8.792	82	250	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	12.026	152	384	0.437	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	82	0.439	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	757	0.407	ng	0.00
27) Fluoranthene-d10	19.073	212	1065	0.438	ng	0.00
31) Terphenyl-d14	19.677	244	764	0.403	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	120m	0.442	ng	Qvalue
3) n-Nitrosodimethylamine	3.473	42	276	0.459	ng	# 98
6) bis(2-Chloroethyl)ether	7.077	93	251	0.363	ng	98
9) Naphthalene	10.468	128	748	0.430	ng	# 87
10) Hexachlorobutadiene	10.767	225	166	0.420	ng	# 92
12) 2-Methylnaphthalene	12.097	142	461	0.411	ng	96
16) Acenaphthylene	13.999	152	730	0.406	ng	98
17) Acenaphthene	14.352	154	496	0.424	ng	94
18) Fluorene	15.336	166	683	0.423	ng	97
20) 4,6-Dinitro-2-methylph...	15.432	198	79	0.386	ng	# 90
21) 4-Bromophenyl-phenylether	16.239	248	226	0.437	ng	97
22) Hexachlorobenzene	16.351	284	259	0.423	ng	92
23) Atrazine	16.512	200	244	0.483	ng	94
24) Pentachlorophenol	16.686	266	153	0.477	ng	93
25) Phenanthrene	17.071	178	1108	0.428	ng	98
26) Anthracene	17.170	178	976	0.423	ng	97
28) Fluoranthene	19.101	202	1404	0.431	ng	99
30) Pyrene	19.463	202	1497	0.397	ng	99
32) Benzo(a)anthracene	21.215	228	1472	0.417	ng	98
33) Chrysene	21.260	228	1649	0.424	ng	98
34) Bis(2-ethylhexyl)phtha...	21.153	149	1188	0.454	ng	100
36) Indeno(1,2,3-cd)pyrene	25.678	276	2743	0.450	ng	97
37) Benzo(b)fluoranthene	22.781	252	1886	0.417	ng	96
38) Benzo(k)fluoranthene	22.822	252	1982	0.434	ng	94
39) Benzo(a)pyrene	23.345	252	1796	0.453	ng	95
40) Dibenzo(a,h)anthracene	25.693	278	2134	0.441	ng	96
41) Benzo(g,h,i)perylene	26.357	276	2511	0.459	ng	99

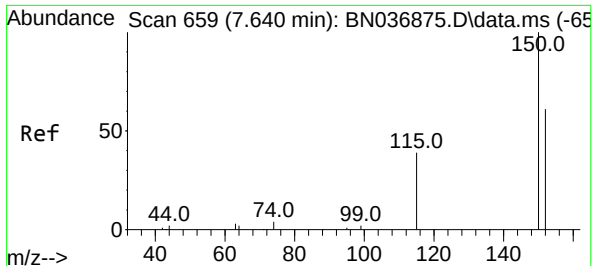
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036895.D
Acq On : 12 Apr 2025 01:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Apr 12 01:46:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

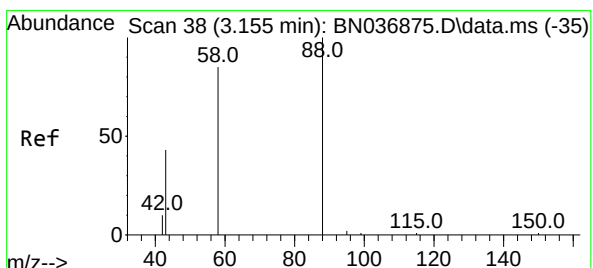
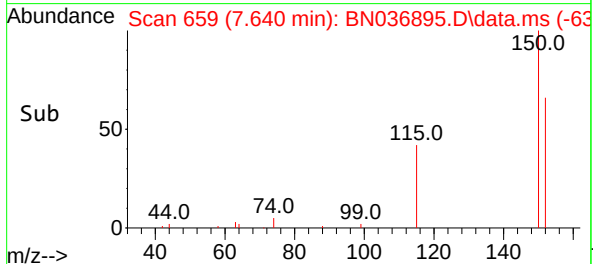
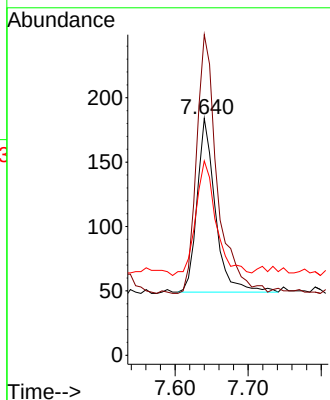
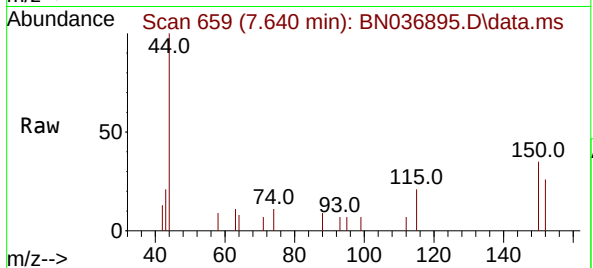




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

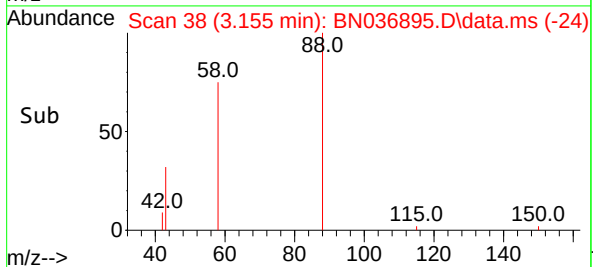
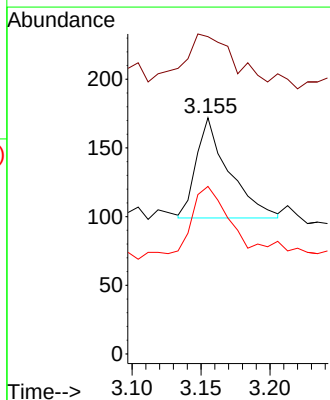
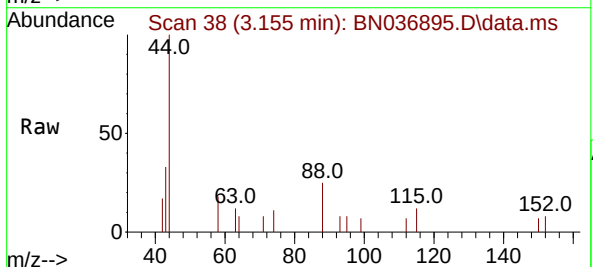
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

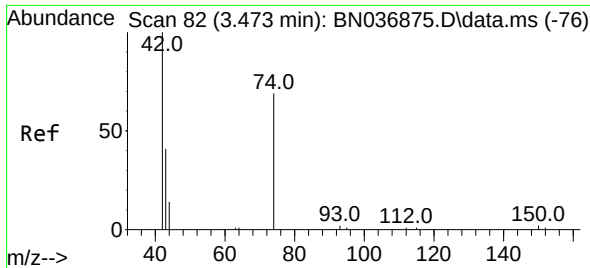
Tgt Ion:152 Resp: 234
Ion Ratio Lower Upper
152 100
150 135.3 123.0 184.6
115 82.1 60.1 90.1



#2
1,4-Dioxane
Concen: 0.442 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 92.5 39.2 58.8#
58 94.2 63.5 95.3

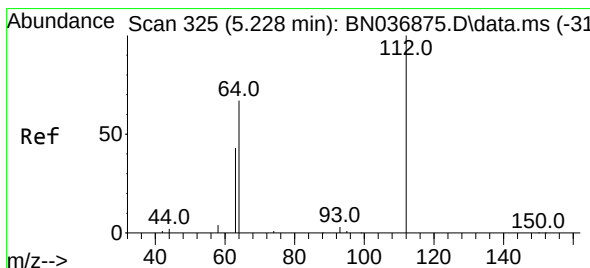
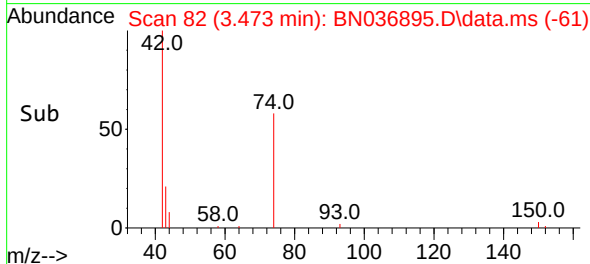
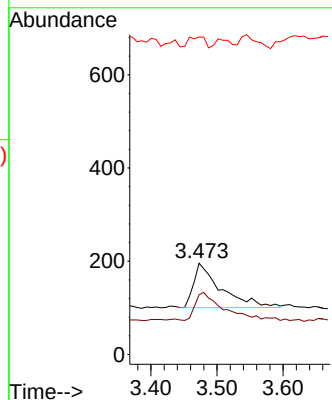
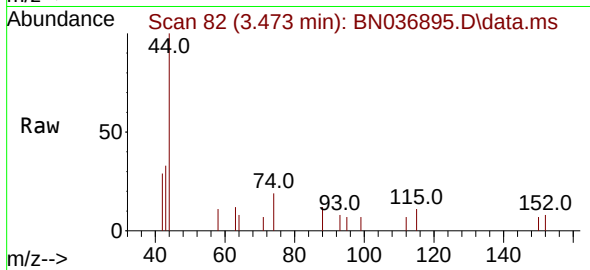




#3
n-Nitrosodimethylamine
Concen: 0.459 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

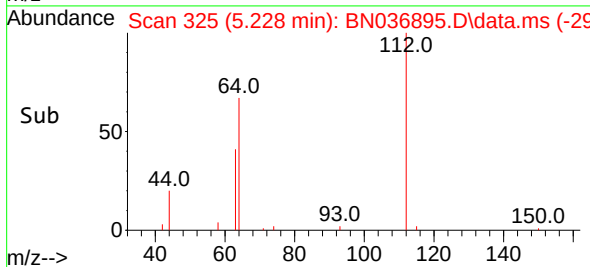
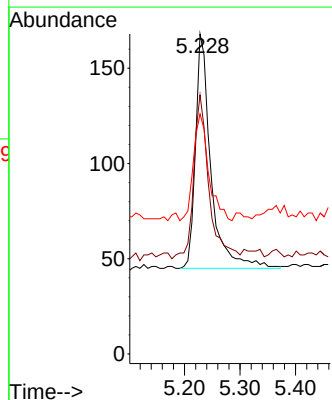
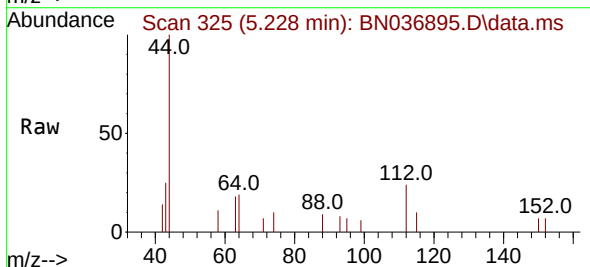
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

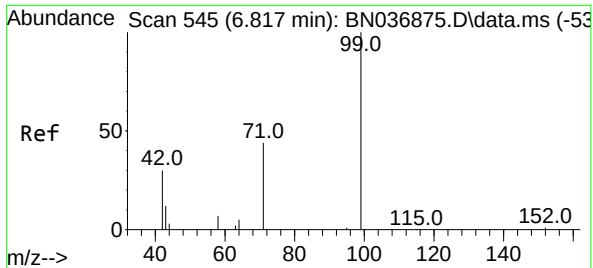
Tgt Ion: 42 Resp: 276
Ion Ratio Lower Upper
42 100
74 66.7 54.6 81.8
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.429 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion: 112 Resp: 236
Ion Ratio Lower Upper
112 100
64 68.6 54.0 81.0
63 44.9 35.1 52.7

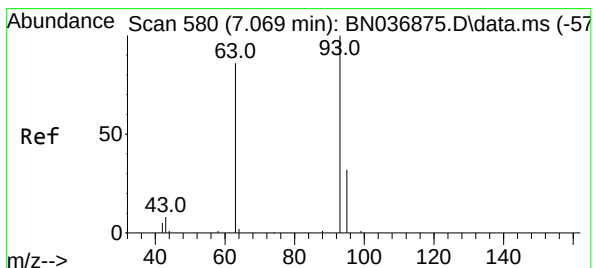
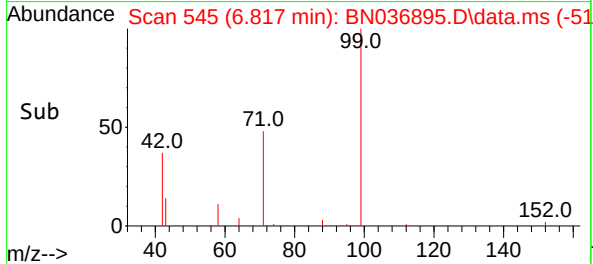
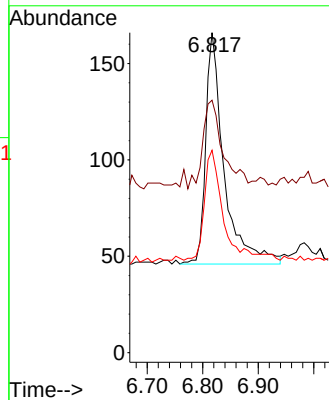
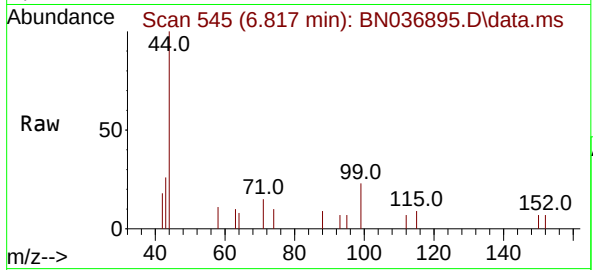




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

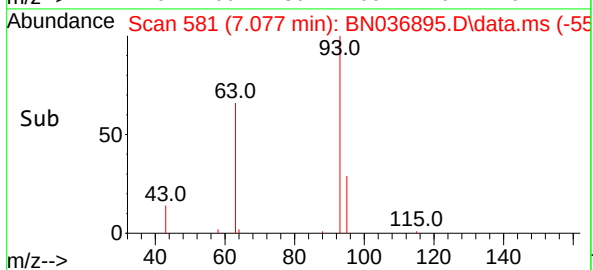
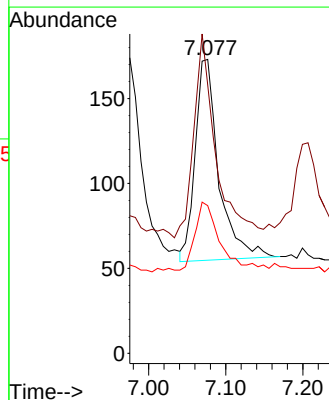
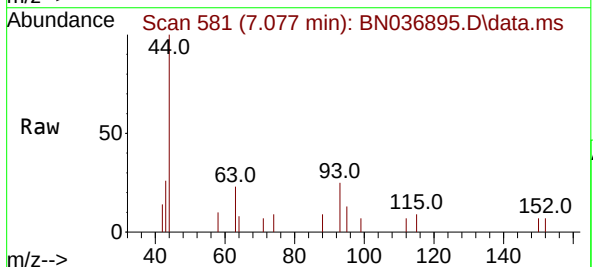
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

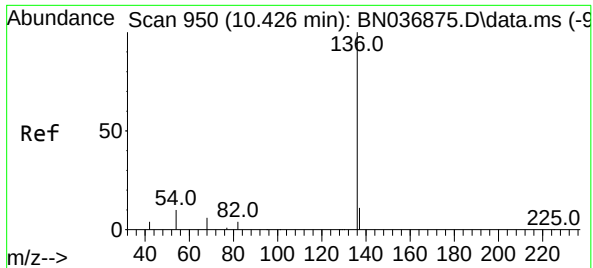
Tgt Ion: 99 Resp: 276
Ion Ratio Lower Upper
99 100
42 43.5 30.9 46.3
71 46.4 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.363 ng
RT: 7.077 min Scan# 581
Delta R.T. 0.007 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion: 93 Resp: 251
Ion Ratio Lower Upper
93 100
63 94.4 76.4 114.6
95 35.5 26.1 39.1

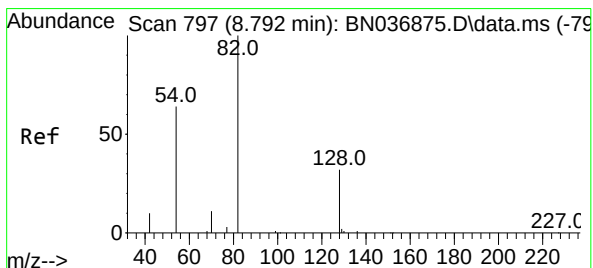
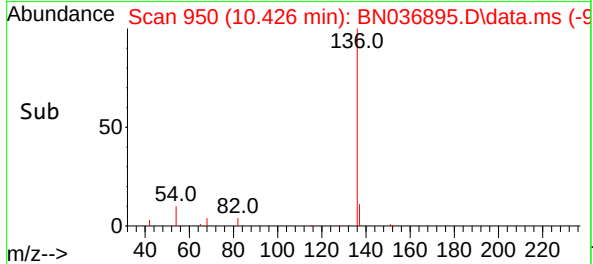
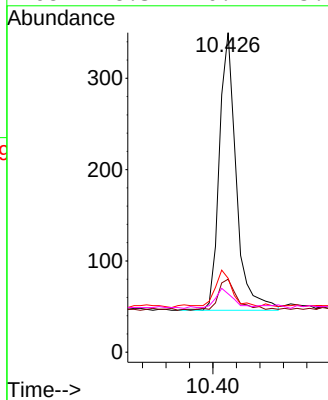
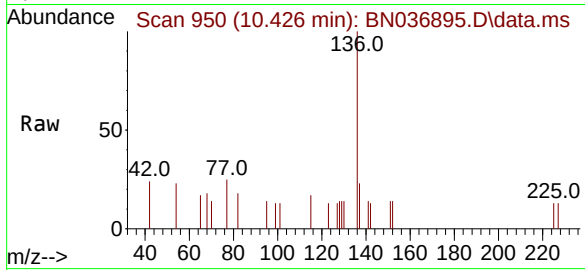




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

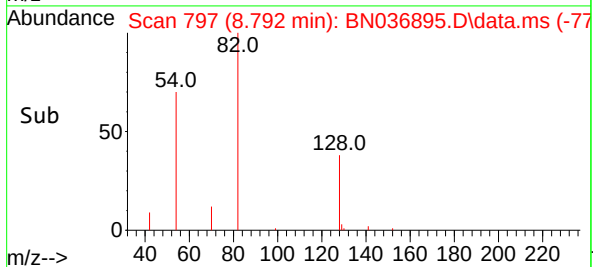
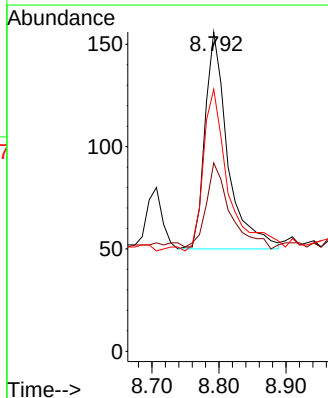
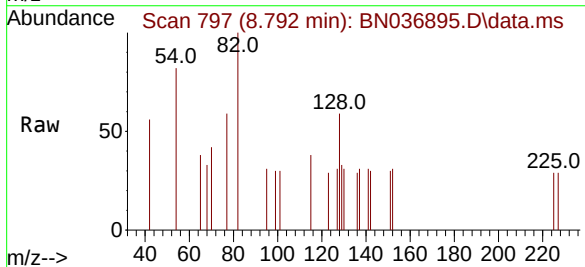
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

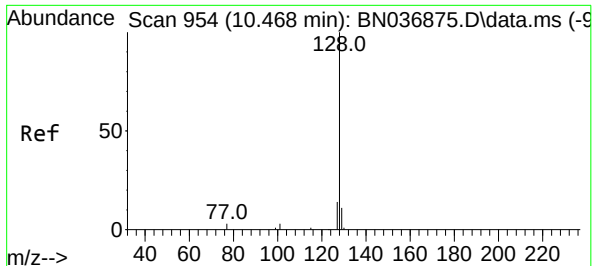
Tgt Ion:	136	Resp:	605
Ion	Ratio	Lower	Upper
136	100		
137	22.9	13.5	20.3#
54	23.1	12.8	19.2#
68	18.3	10.1	15.1#



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:	82	Resp:	250
Ion	Ratio	Lower	Upper
82	100		
128	59.0	35.5	53.3#
54	82.1	56.2	84.4

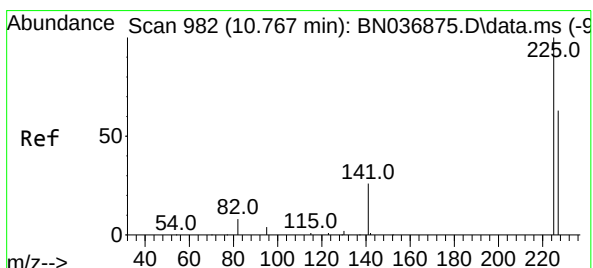
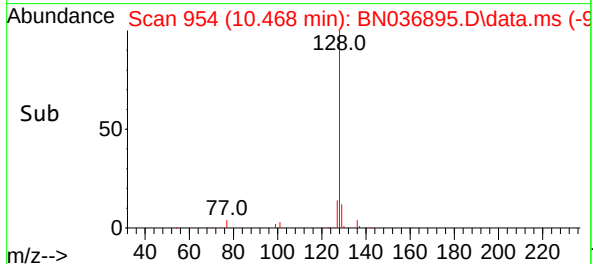
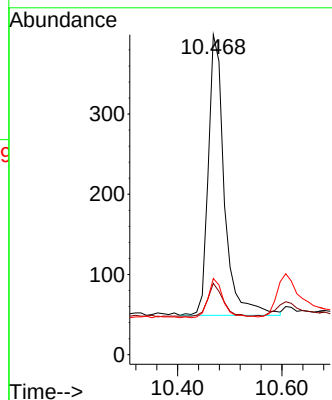
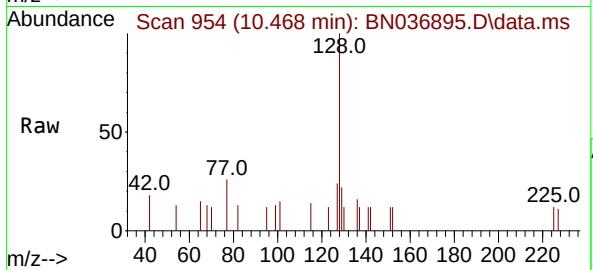




#9
Naphthalene
Concen: 0.430 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

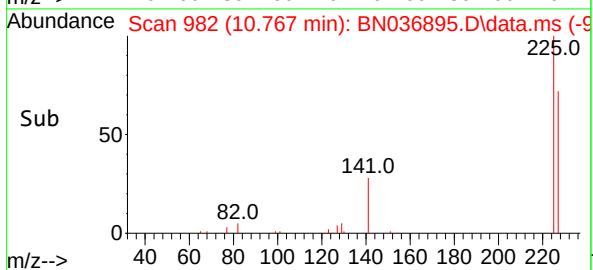
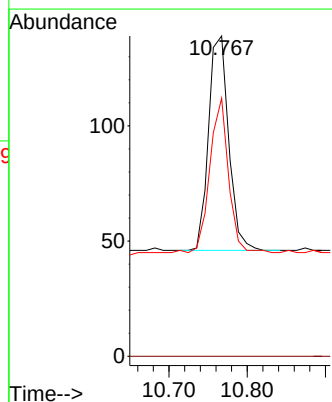
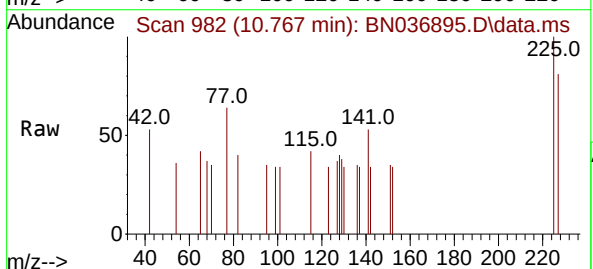
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

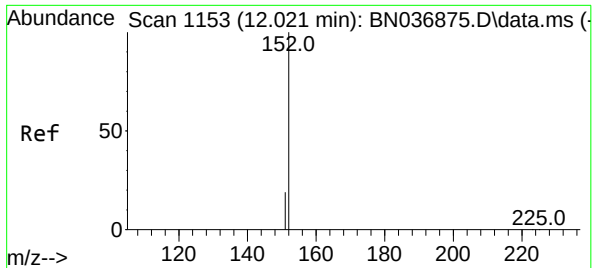
Tgt Ion:128 Resp: 748
Ion Ratio Lower Upper
128 100
129 22.3 12.9 19.3#
127 23.8 15.0 22.6#



#10
Hexachlorobutadiene
Concen: 0.420 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:225 Resp: 166
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 69.3 50.5 75.7

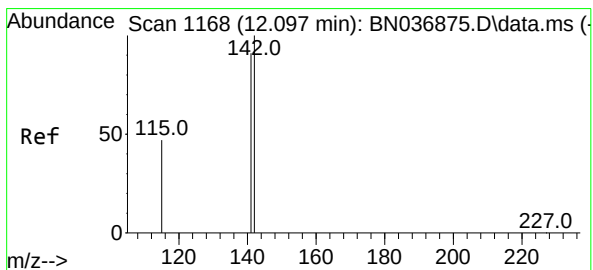
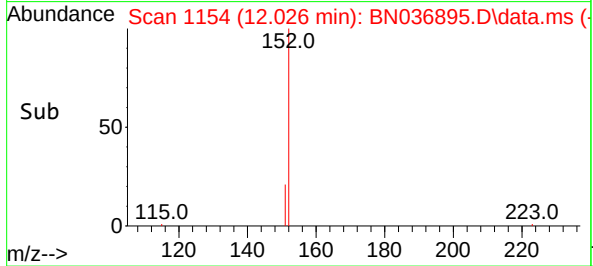
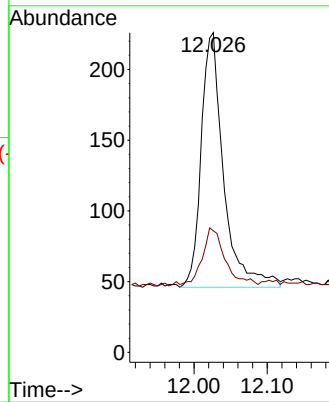
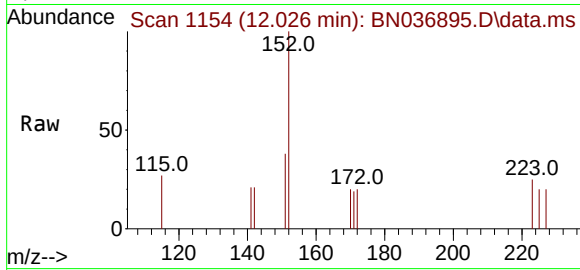




#11
2-Methylnaphthalene-d10
Concen: 0.437 ng
RT: 12.026 min Scan# 1153
Delta R.T. 0.005 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

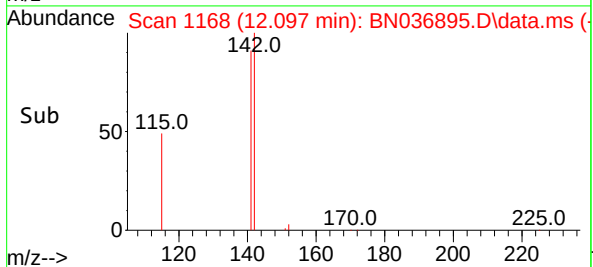
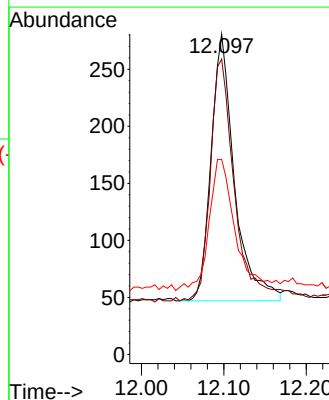
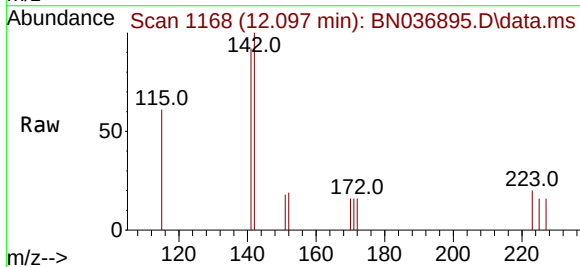
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

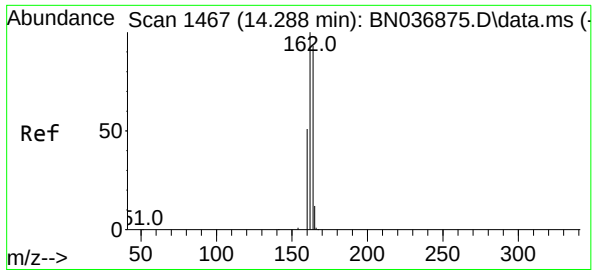
Tgt Ion:152 Resp: 384
Ion Ratio Lower Upper
152 100
151 22.4 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.411 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:142 Resp: 461
Ion Ratio Lower Upper
142 100
141 92.2 73.8 110.8
115 60.9 43.3 64.9

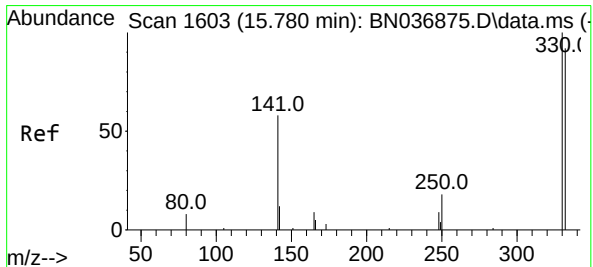
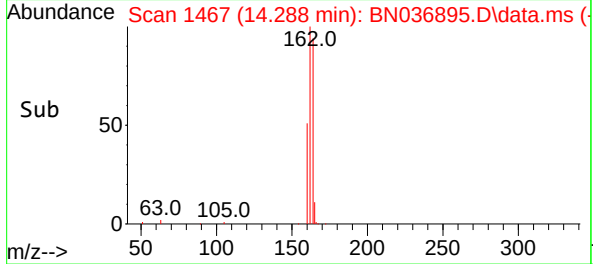
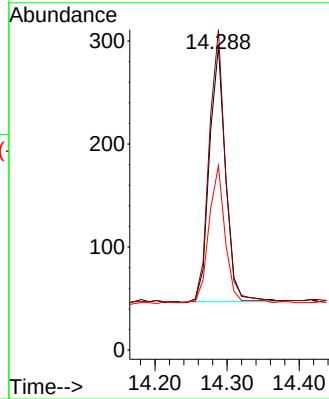
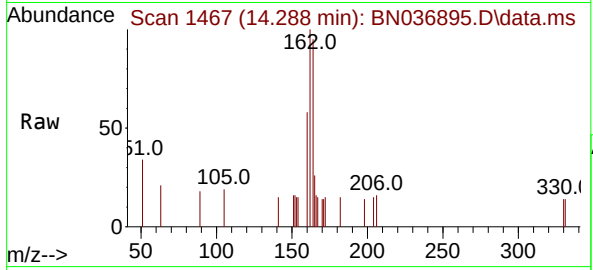




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

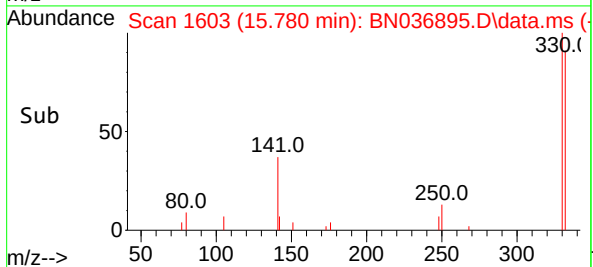
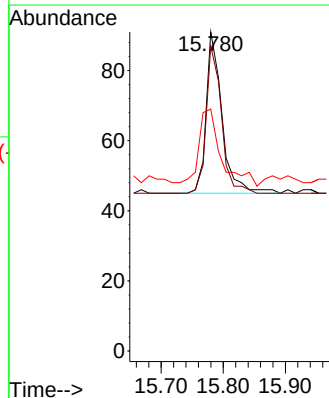
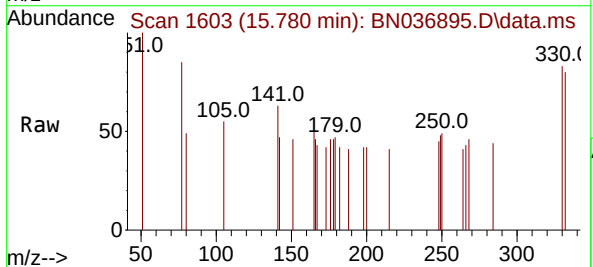
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

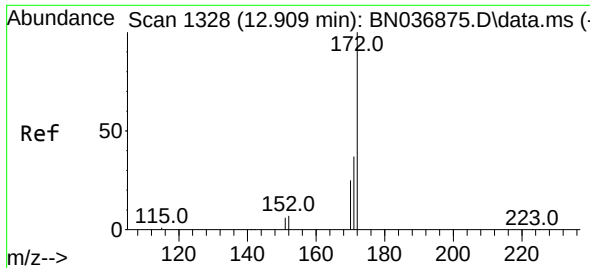
Tgt Ion:164 Resp: 387
Ion Ratio Lower Upper
164 100
162 105.4 85.7 128.5
160 60.7 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 0.439 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:330 Resp: 82
Ion Ratio Lower Upper
330 100
332 86.6 87.0 130.6#
141 67.1 45.3 67.9

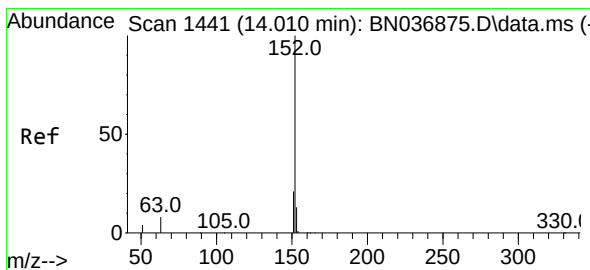
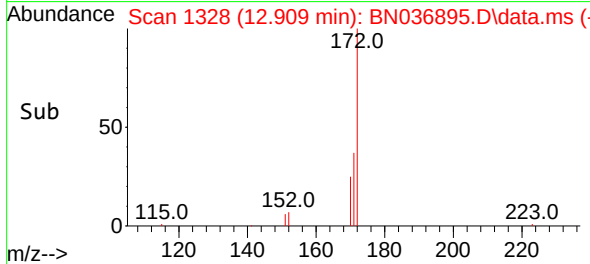
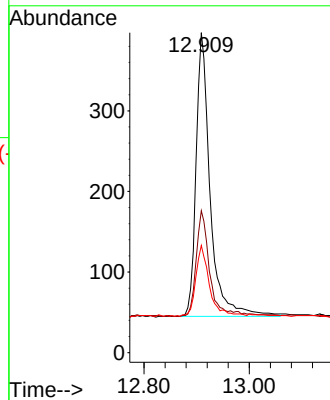
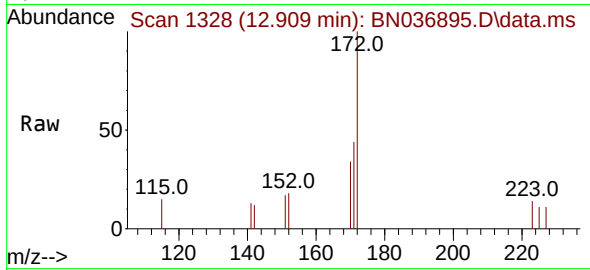




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.909 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

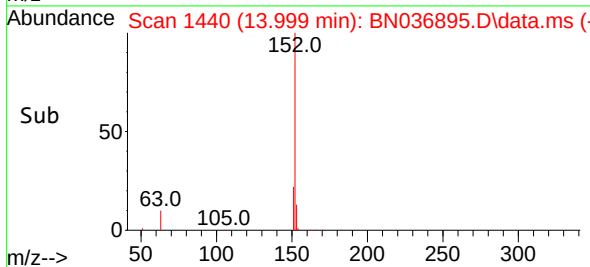
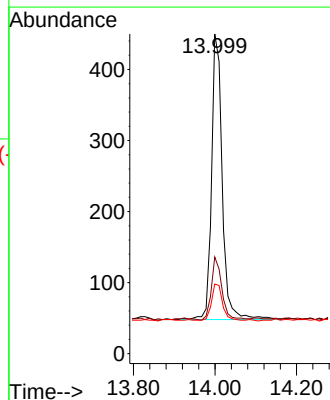
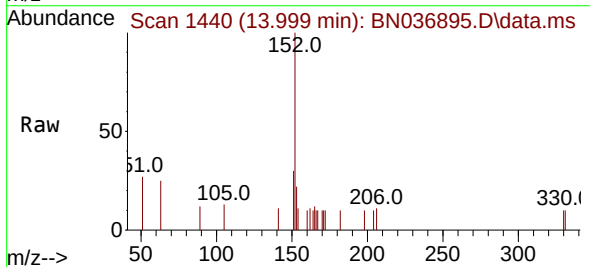
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

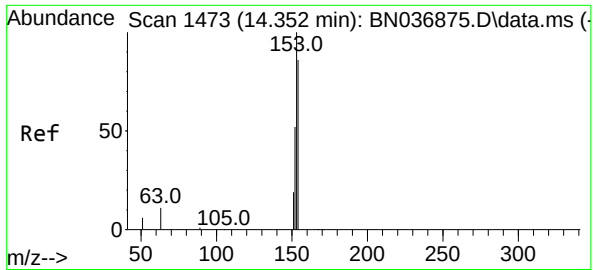
Tgt Ion:	172	Resp:	757
Ion	Ratio	Lower	Upper
172	100		
171	44.3	32.7	49.1
170	33.5	23.3	34.9



#16
Acenaphthylene
Concen: 0.406 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.011 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:	152	Resp:	730
Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.4	24.6
153	13.2	10.3	15.5

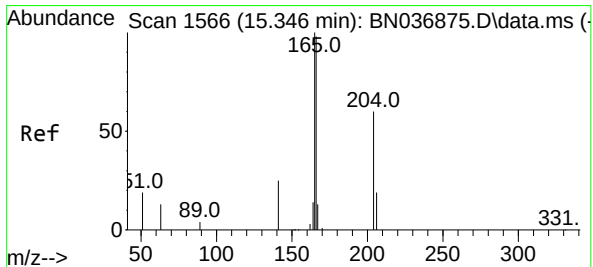
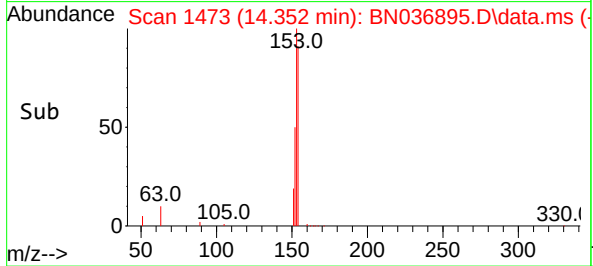
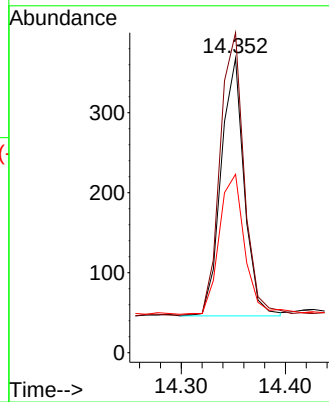
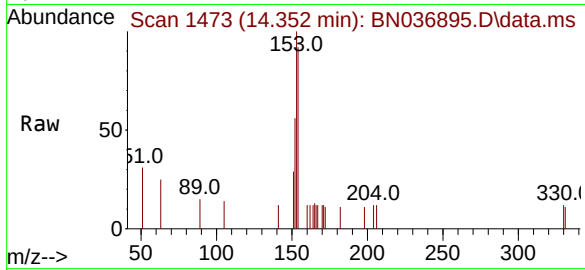




#17
Acenaphthene
Concen: 0.424 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

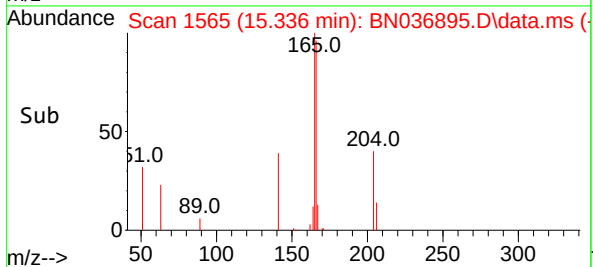
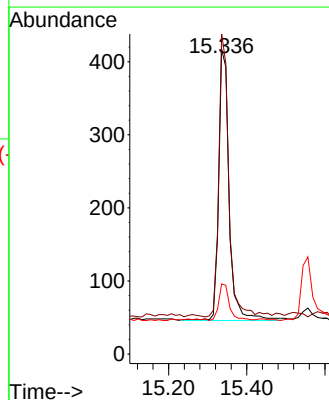
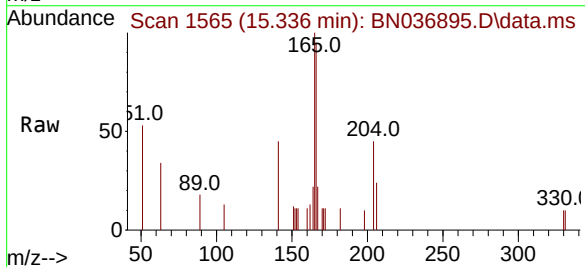
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

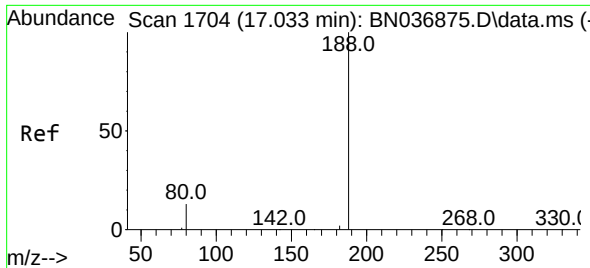
Tgt Ion:	154	Resp:	496
Ion Ratio	Lower	Upper	
154	100		
153	115.5	97.8	146.6
152	61.1	52.7	79.1



#18
Fluorene
Concen: 0.423 ng
RT: 15.336 min Scan# 1565
Delta R.T. -0.011 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:	166	Resp:	683
Ion Ratio	Lower	Upper	
166	100		
165	100.1	83.2	124.8
167	13.8	11.1	16.7

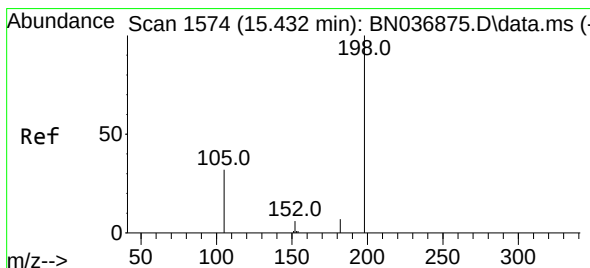
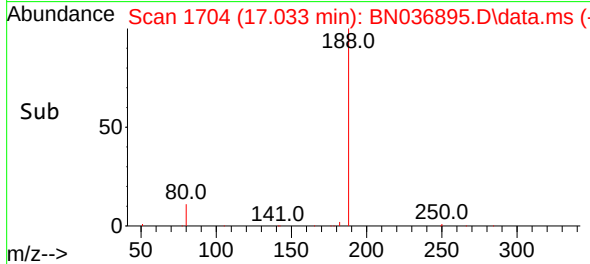
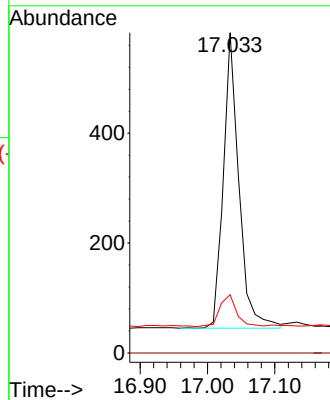
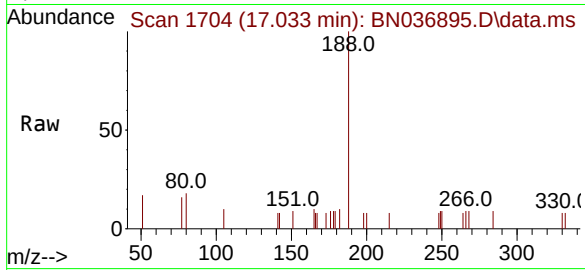




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

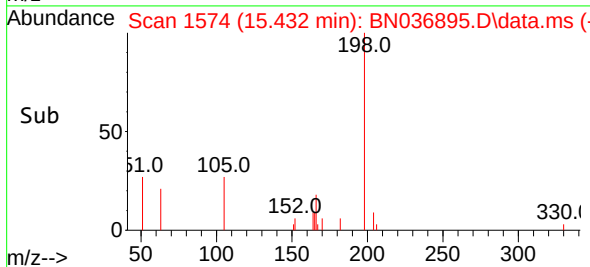
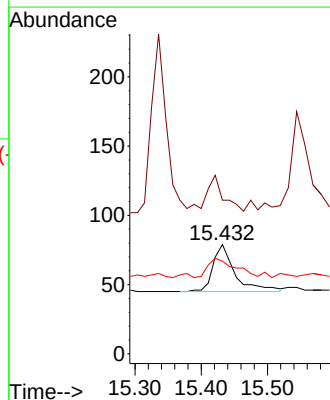
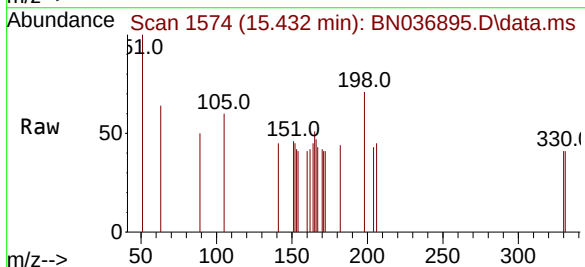
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

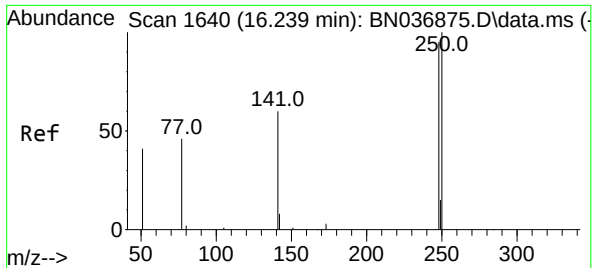
Tgt Ion	188	Resp	863
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	18.2	13.9	20.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.386 ng
RT: 15.432 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

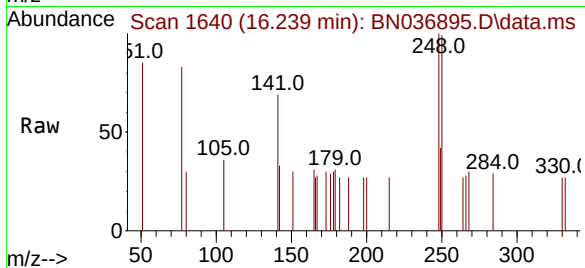
Tgt Ion	198	Resp	79
Ion Ratio	Lower	Upper	
198	100		
51	140.5	107.6	161.4
105	84.8	55.2	82.8



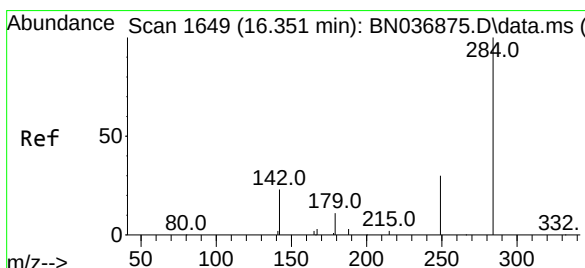
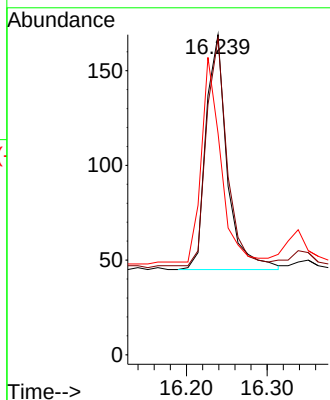
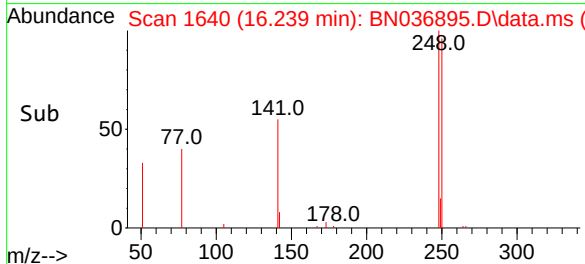


#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

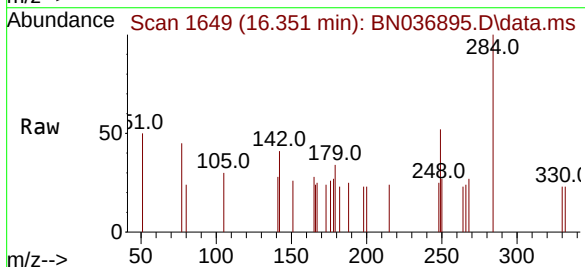
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



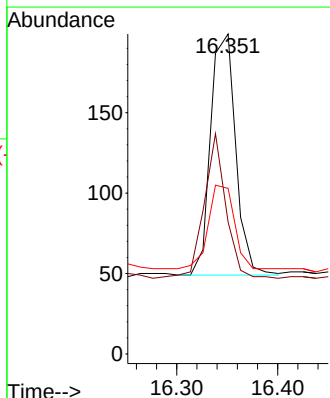
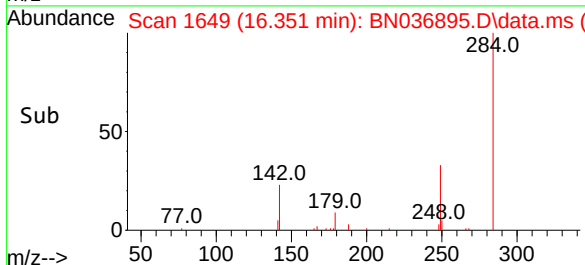
Tgt Ion:248 Resp: 226
Ion Ratio Lower Upper
248 100
250 98.8 83.5 125.3
141 69.2 55.3 82.9

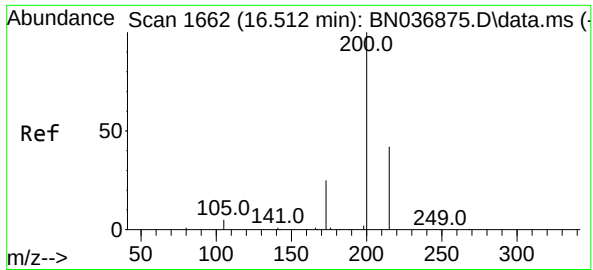


#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21



Tgt Ion:284 Resp: 259
Ion Ratio Lower Upper
284 100
142 52.1 37.7 56.5
249 41.3 29.0 43.6

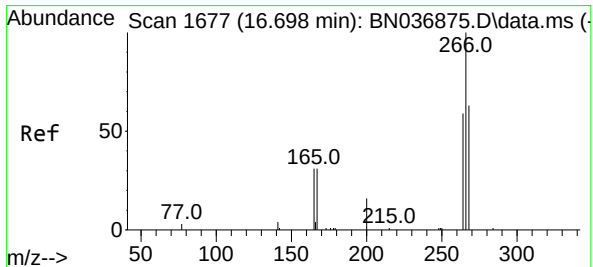
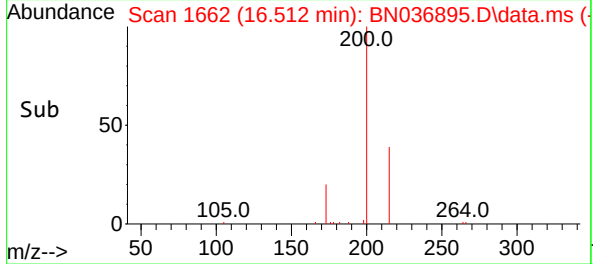
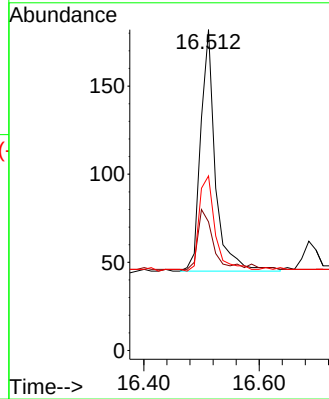
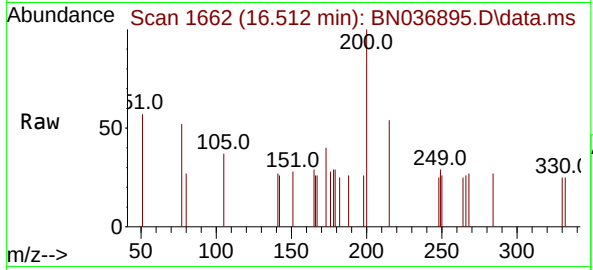




#23
Atrazine
Concen: 0.483 ng
RT: 16.512 min Scan# 1662
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

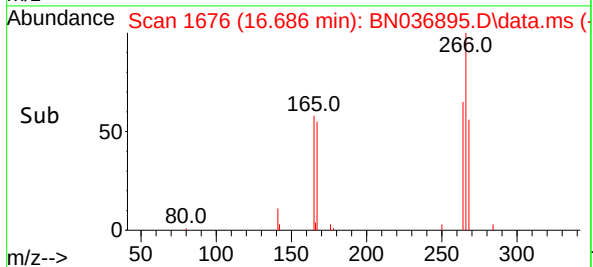
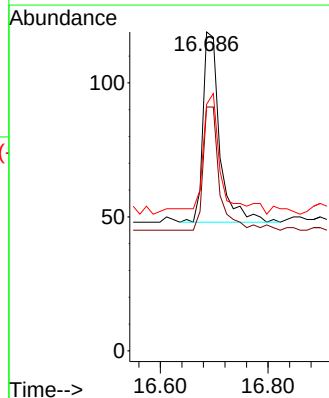
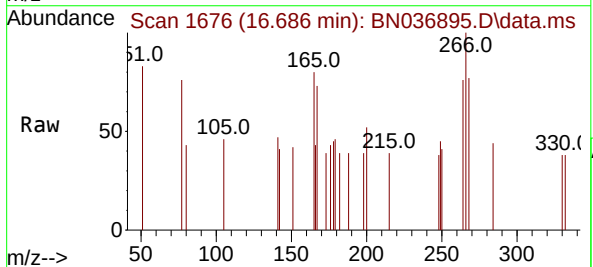
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

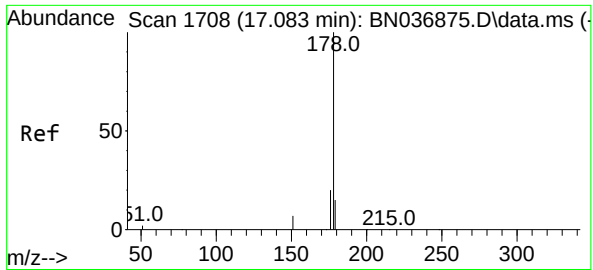
Tgt Ion:200 Resp: 244
Ion Ratio Lower Upper
200 100
173 40.1 28.6 43.0
215 54.4 40.5 60.7



#24
Pentachlorophenol
Concen: 0.477 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:266 Resp: 153
Ion Ratio Lower Upper
266 100
264 64.1 44.6 66.8
268 66.7 51.8 77.6



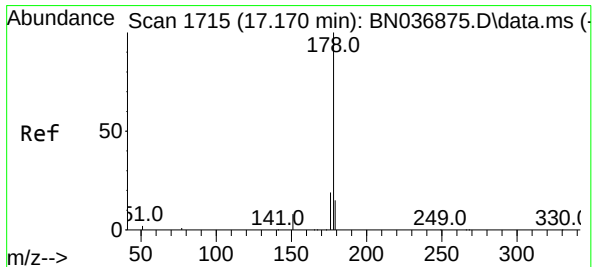
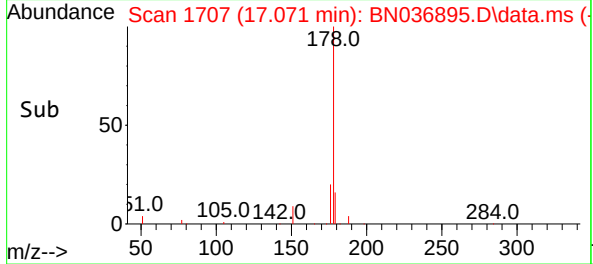
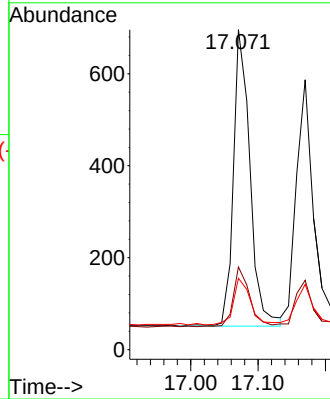
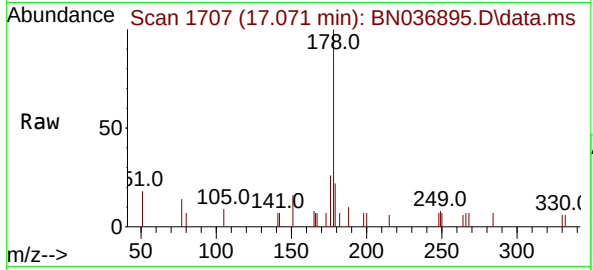


#25
Phenanthrene
Concen: 0.428 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:178 Resp: 1108

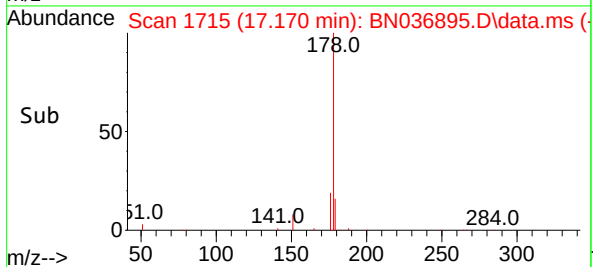
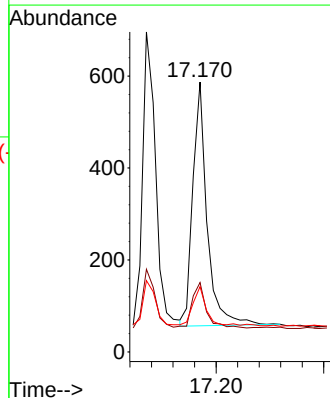
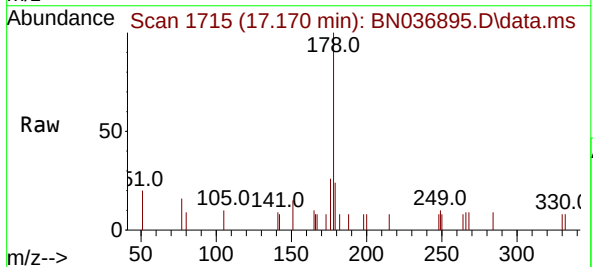
Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.6	25.0
179	15.8	12.8	19.2

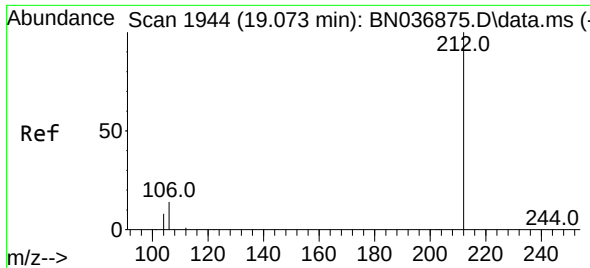


#26
Anthracene
Concen: 0.423 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:178 Resp: 976

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.6
179	13.9	12.6	18.8

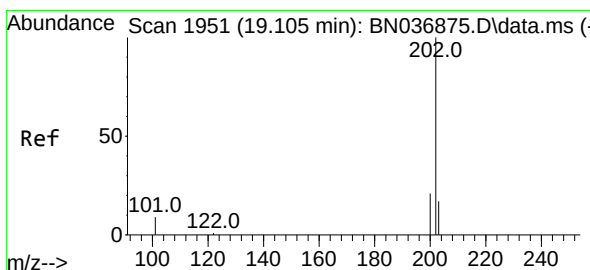
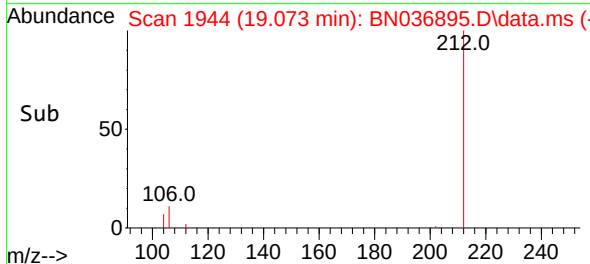
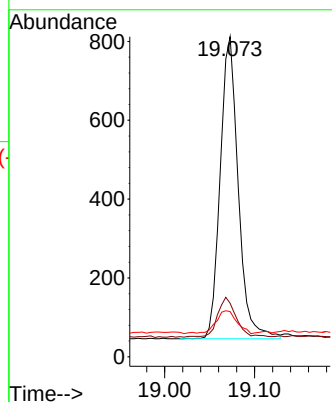
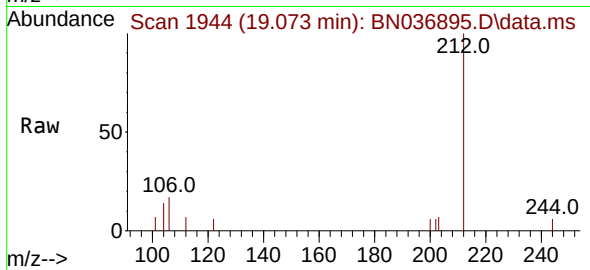




#27
Fluoranthene-d10
Concen: 0.438 ng
RT: 19.073 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

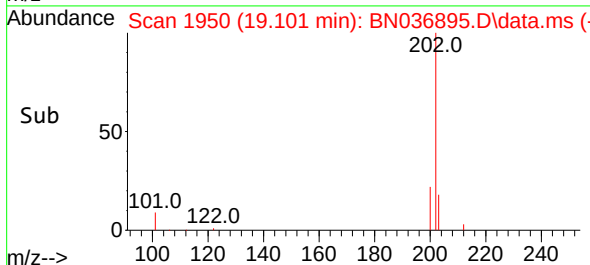
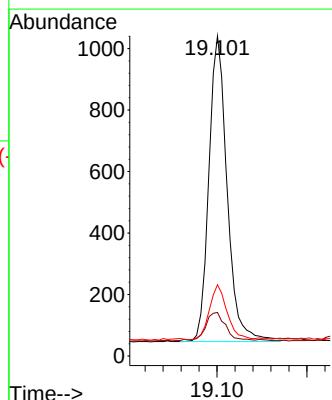
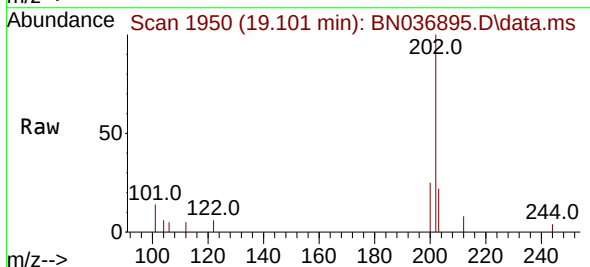
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

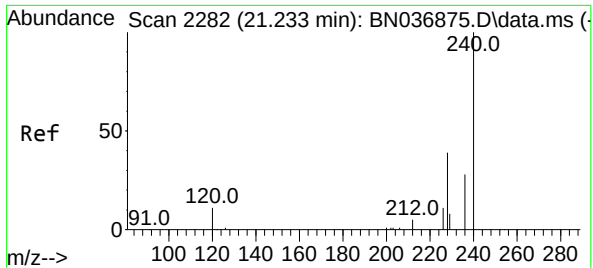
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.2	16.8
104	8.3	7.5	11.3



#28
Fluoranthene
Concen: 0.431 ng
RT: 19.101 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.5	12.7
203	17.5	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.224 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036895.D

Acq: 12 Apr 2025 01:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

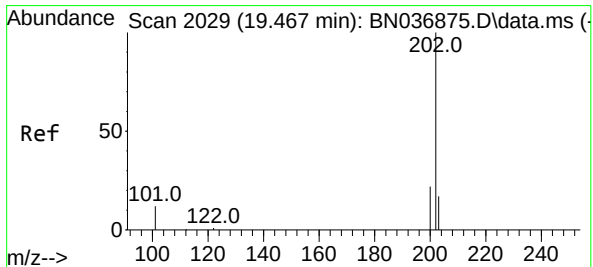
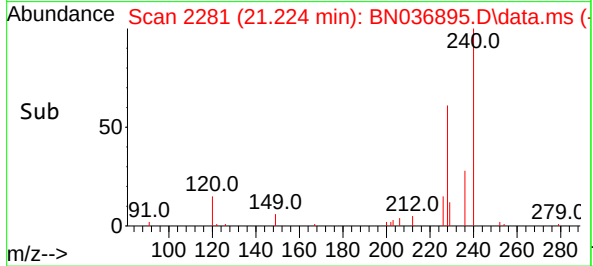
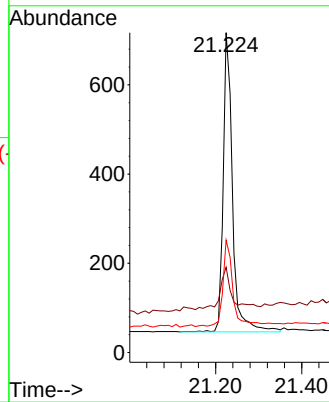
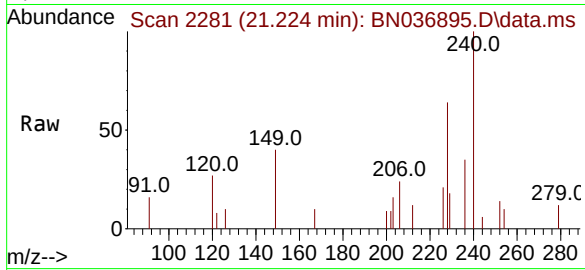
Tgt Ion:240 Resp: 999

Ion Ratio Lower Upper

240 100

120 26.6 15.8 23.6#

236 35.1 25.8 38.8



#30

Pyrene

Concen: 0.397 ng

RT: 19.463 min Scan# 2028

Delta R.T. -0.005 min

Lab File: BN036895.D

Acq: 12 Apr 2025 01:21

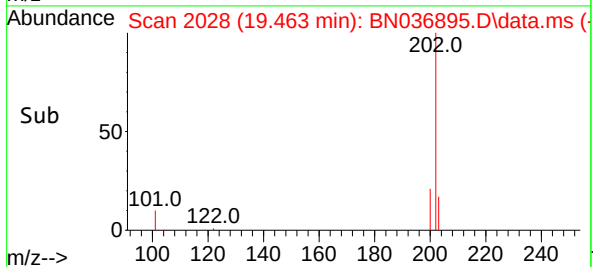
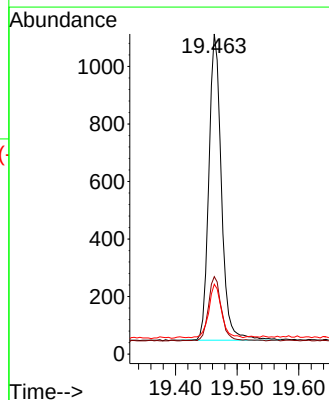
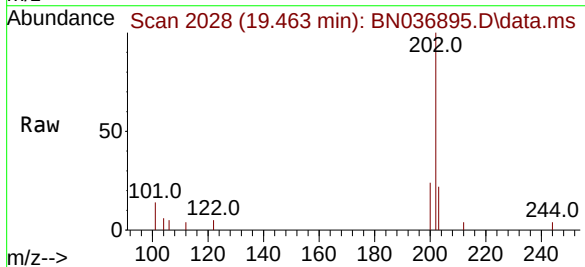
Tgt Ion:202 Resp: 1497

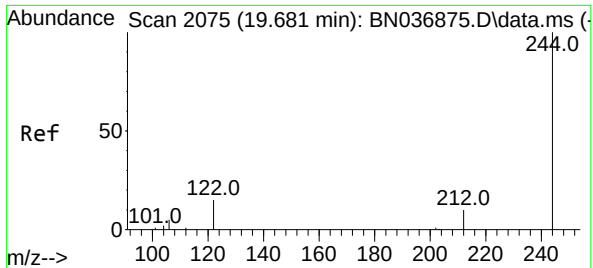
Ion Ratio Lower Upper

202 100

200 21.8 17.1 25.7

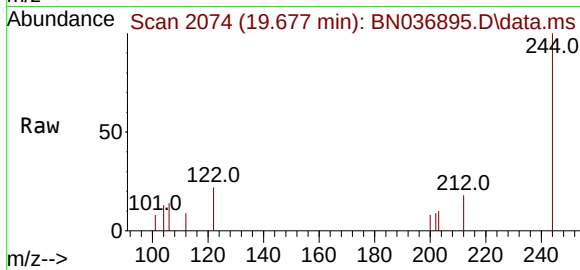
203 17.5 14.5 21.7



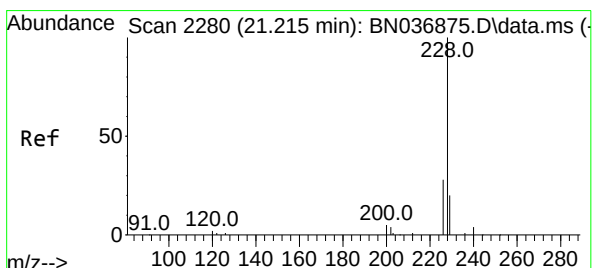
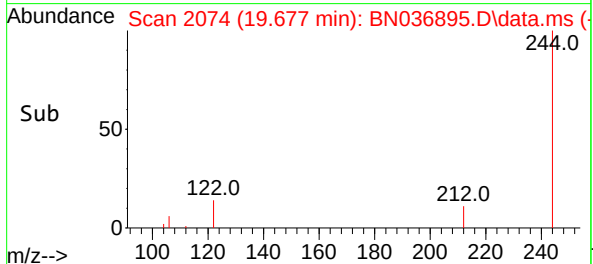
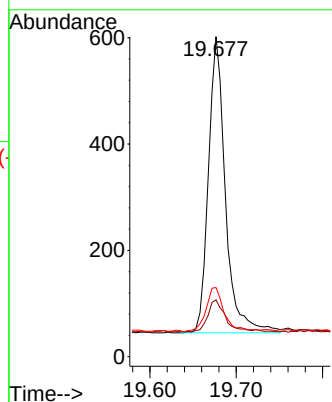


#31
Terphenyl-d14
Concen: 0.403 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

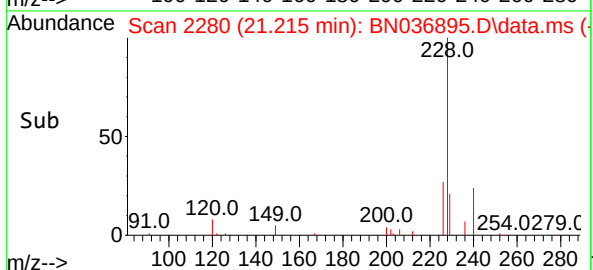
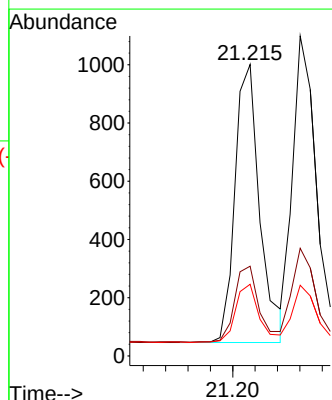
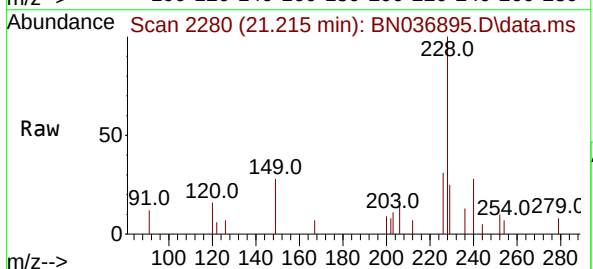


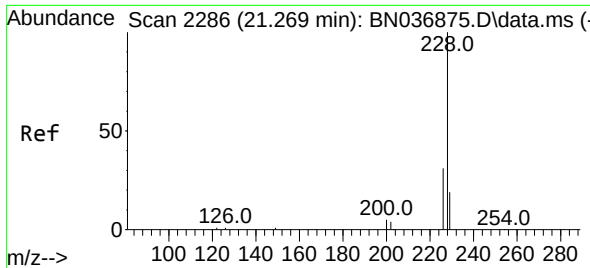
Tgt Ion:244 Resp: 764
Ion Ratio Lower Upper
244 100
212 17.8 11.6 17.4#
122 21.6 14.9 22.3



#32
Benzo(a)anthracene
Concen: 0.417 ng
RT: 21.215 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:228 Resp: 1472
Ion Ratio Lower Upper
228 100
226 30.8 24.5 36.7
229 24.6 17.7 26.5

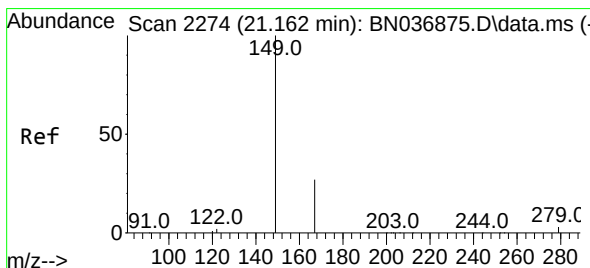
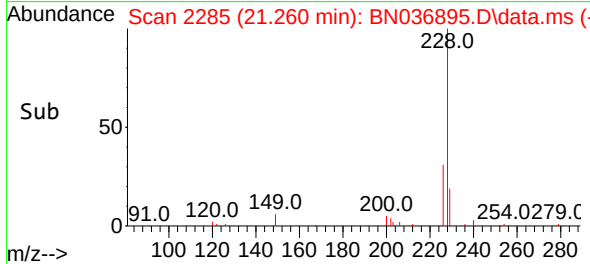
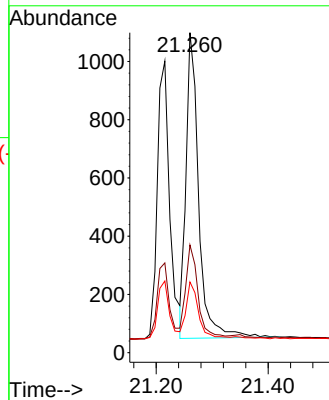
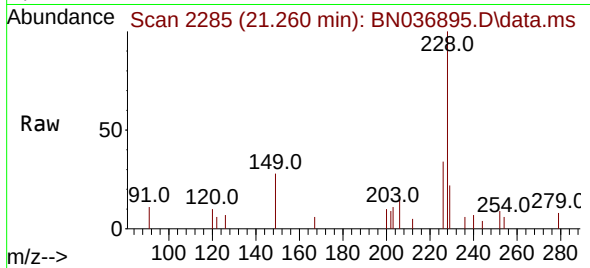




#33
Chrysene
Concen: 0.424 ng
RT: 21.260 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

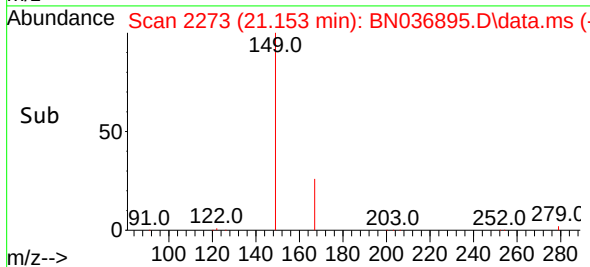
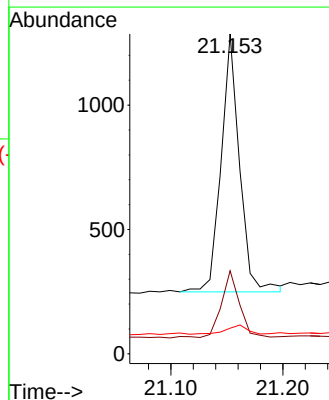
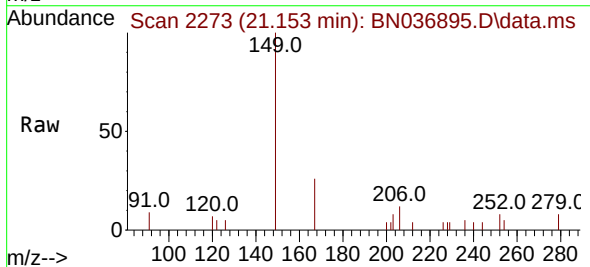
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

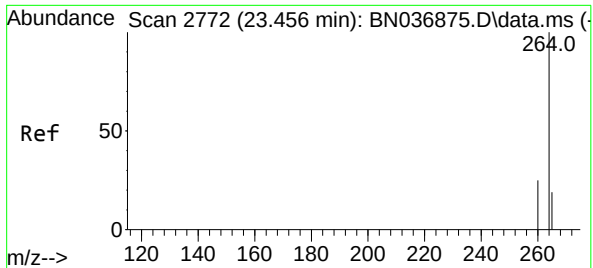
Tgt Ion:228 Resp: 1649
Ion Ratio Lower Upper
228 100
226 33.7 26.1 39.1
229 22.1 17.0 25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.454 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:149 Resp: 1188
Ion Ratio Lower Upper
149 100
167 26.3 21.0 31.4
279 4.0 3.6 5.4

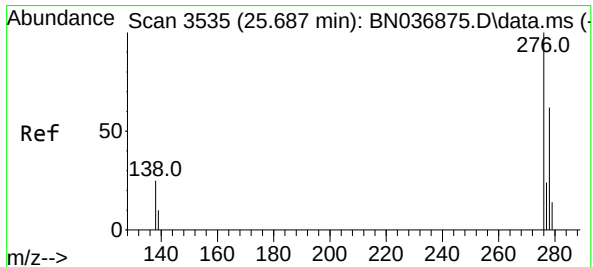
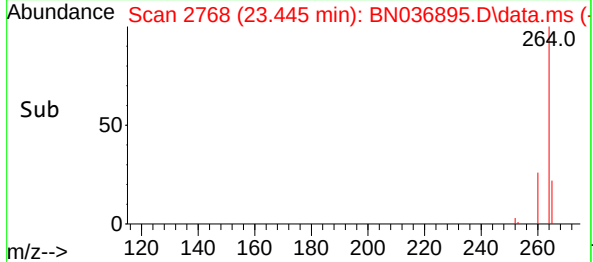
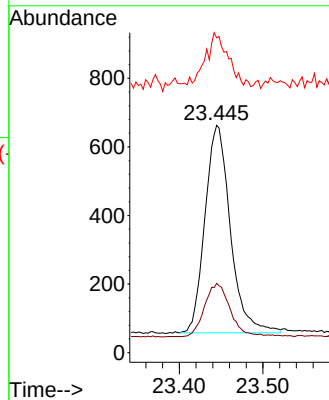
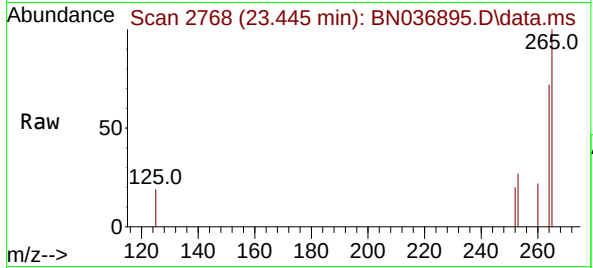




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.445 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

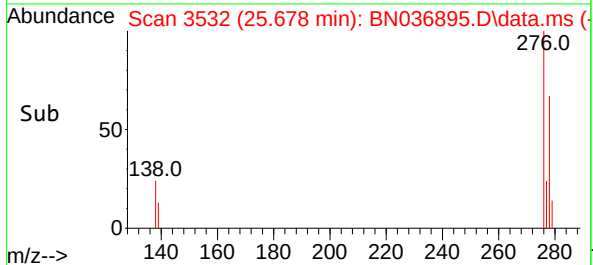
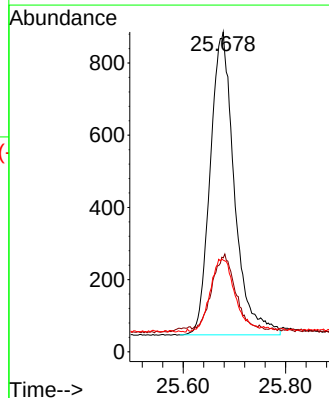
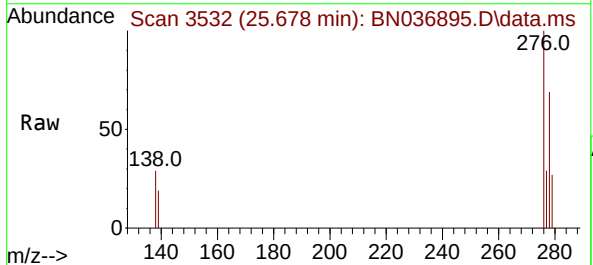
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

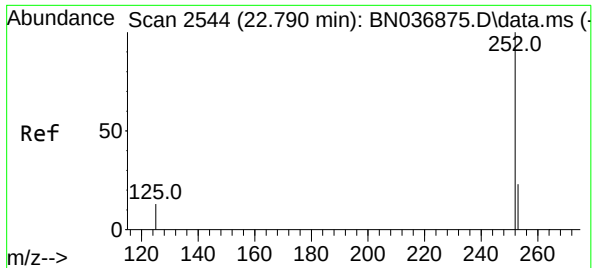
Tgt Ion:264 Resp: 1276
Ion Ratio Lower Upper
264 100
260 30.5 22.9 34.3
265 138.5 88.6 132.8#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.450 ng
RT: 25.678 min Scan# 3532
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:276 Resp: 2743
Ion Ratio Lower Upper
276 100
138 23.5 21.0 31.6
277 24.4 19.3 28.9

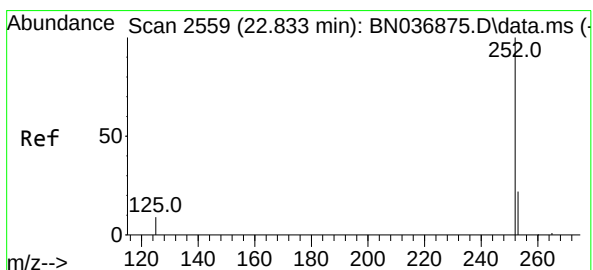
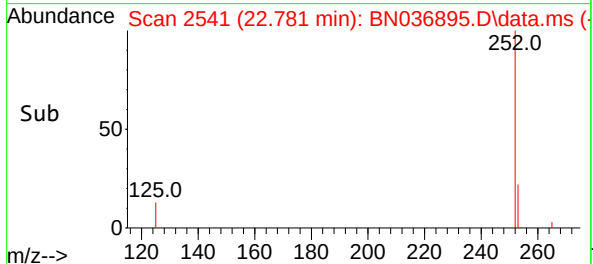
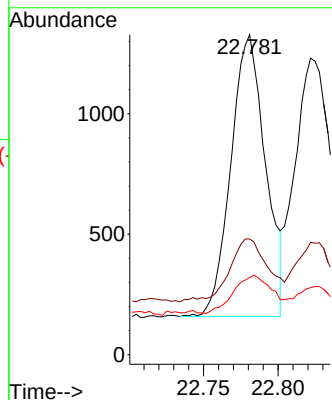
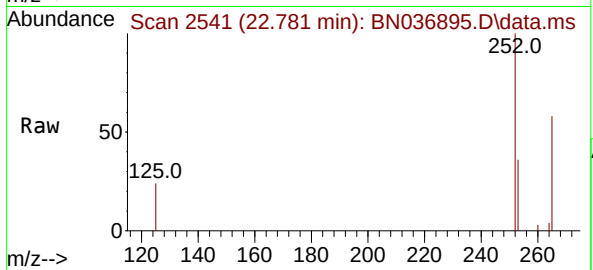




#37
Benzo(b)fluoranthene
Concen: 0.417 ng
RT: 22.781 min Scan# 2541
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

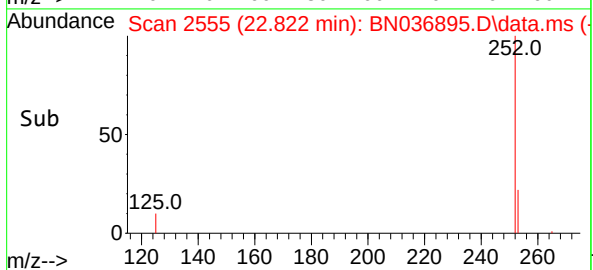
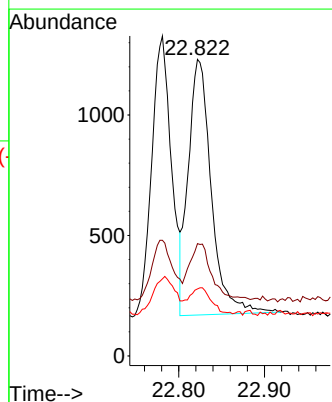
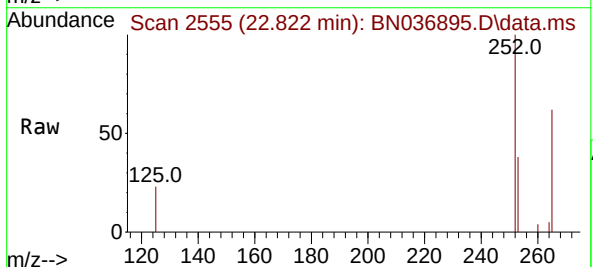
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

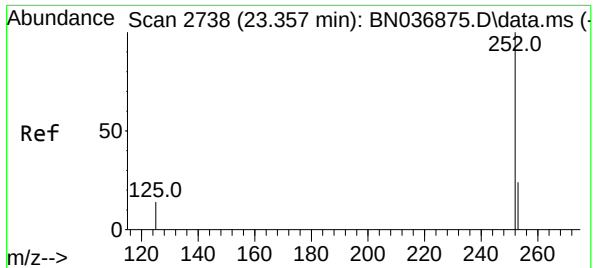
Tgt Ion:252 Resp: 1886
Ion Ratio Lower Upper
252 100
253 36.1 27.0 40.6
125 24.1 17.7 26.5



#38
Benzo(k)fluoranthene
Concen: 0.434 ng
RT: 22.822 min Scan# 2555
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:252 Resp: 1982
Ion Ratio Lower Upper
252 100
253 37.9 26.7 40.1
125 22.6 16.9 25.3





#39

Benzo(a)pyrene

Concen: 0.453 ng

RT: 23.345 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036895.D

Acq: 12 Apr 2025 01:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

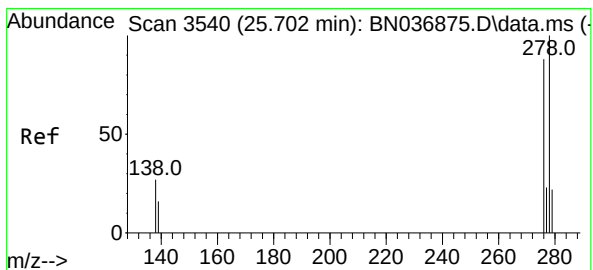
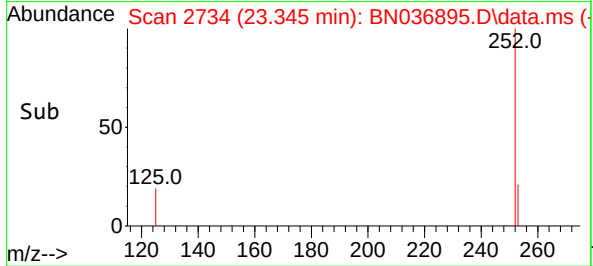
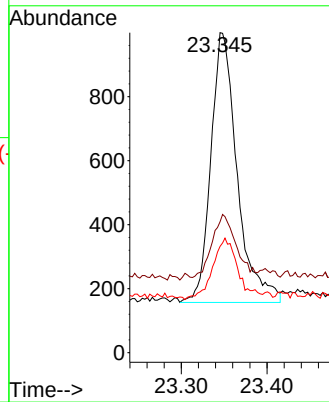
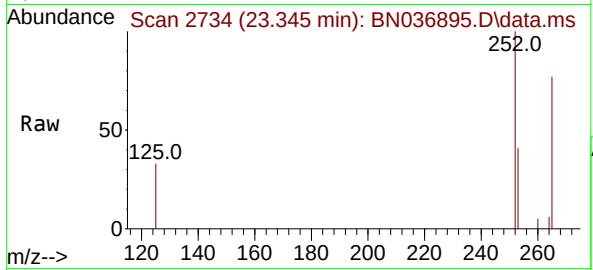
Tgt Ion:252 Resp: 1796

Ion Ratio Lower Upper

252 100

253 40.9 31.5 47.3

125 33.2 22.6 34.0



#40

Dibenzo(a,h)anthracene

Concen: 0.441 ng

RT: 25.693 min Scan# 3537

Delta R.T. -0.009 min

Lab File: BN036895.D

Acq: 12 Apr 2025 01:21

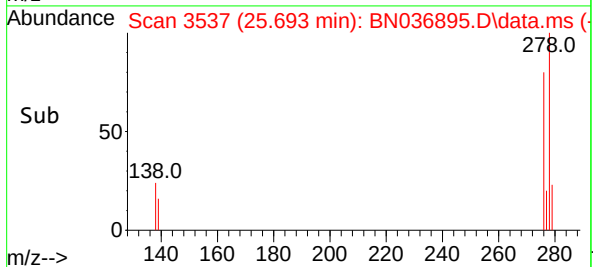
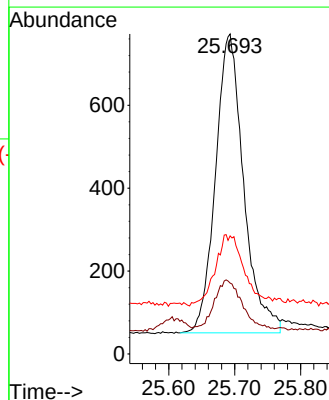
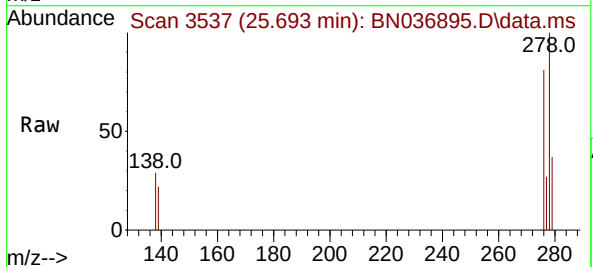
Tgt Ion:278 Resp: 2134

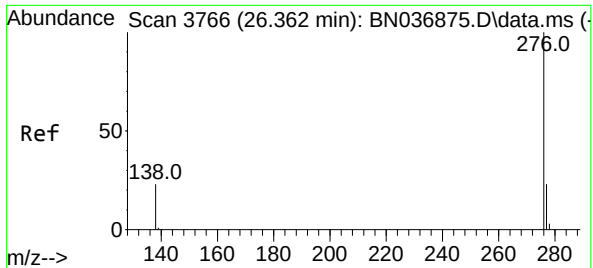
Ion Ratio Lower Upper

278 100

139 22.2 17.6 26.4

279 36.9 26.7 40.1





#41

Benzo(g,h,i)perylene

Concen: 0.459 ng

RT: 26.357 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN036895.D

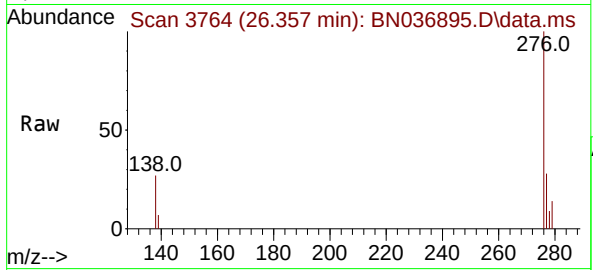
Acq: 12 Apr 2025 01:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



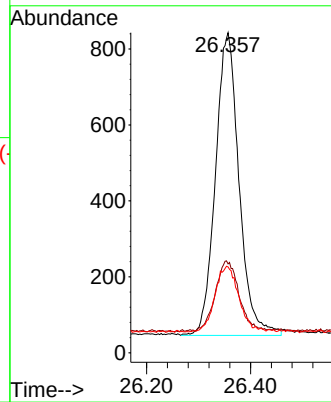
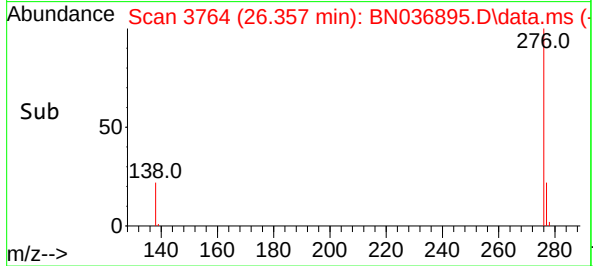
Tgt Ion:276 Resp: 2511

Ion Ratio Lower Upper

276 100

277 27.8 21.8 32.8

138 26.8 21.6 32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036895.D
 Acq On : 12 Apr 2025 01:21
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Apr 12 01:46:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 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	48#	0.00
2	1,4-Dioxane	0.464	0.513	-10.6	56	0.00
3	n-Nitrosodimethylamine	1.028	1.179	-14.7	52	0.00
4 S	2-Fluorophenol	0.941	1.009	-7.2	50#	0.00
5 S	Phenol-d6	1.203	1.179	2.0	47#	0.00
6	bis(2-Chloroethyl)ether	1.180	1.073	9.1	43#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	48#	0.00
8 S	Nitrobenzene-d5	0.444	0.413	7.0	44#	0.00
9	Naphthalene	1.151	1.236	-7.4	51	0.00
10	Hexachlorobutadiene	0.261	0.274	-5.0	46#	0.00
11 SURR	2-Methylnaphthalene-d10	0.582	0.635	-9.1	51	0.00
12	2-Methylnaphthalene	0.741	0.762	-2.8	48#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	52	0.00
14 S	2,4,6-Tribromophenol	0.193	0.212	-9.8	60	0.00
15 S	2-Fluorobiphenyl	1.921	1.956	-1.8	51	0.00
16	Acenaphthylene	1.858	1.886	-1.5	52	-0.01
17	Acenaphthene	1.210	1.282	-6.0	54	0.00
18	Fluorene	1.669	1.765	-5.8	54	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	55	0.00
20	4,6-Dinitro-2-methylphenol	0.095	0.092	3.2	53	0.00
21	4-Bromophenyl-phenylether	0.240	0.262	-9.2	55	0.00
22	Hexachlorobenzene	0.284	0.300	-5.6	53	0.00
23	Atrazine	0.234	0.283	-20.9	59	0.00
24	Pentachlorophenol	0.149	0.177	-18.8	60	-0.01
25	Phenanthrene	1.199	1.284	-7.1	54	-0.01
26	Anthracene	1.069	1.131	-5.8	54	0.00
27 SURR	Fluoranthene-d10	1.127	1.234	-9.5	55	0.00
28	Fluoranthene	1.509	1.627	-7.8	56	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	61	0.00
30	Pyrene	1.512	1.498	0.9	57	0.00
31 S	Terphenyl-d14	0.760	0.765	-0.7	58	0.00
32	Benzo(a)anthracene	1.413	1.473	-4.2	64	0.00
33	Chrysene	1.558	1.651	-6.0	61	0.00
34	Bis(2-ethylhexyl)phthalate	1.049	1.189	-13.3	71	0.00
35 I	Perylene-d12	1.000	1.000	0.0	67	-0.01
36	Indeno(1,2,3-cd)pyrene	1.909	2.150	-12.6	72	0.00
37	Benzo(b)fluoranthene	1.419	1.478	-4.2	65	0.00
38	Benzo(k)fluoranthene	1.432	1.553	-8.4	70	-0.01
39 C	Benzo(a)pyrene	1.244	1.408	-13.2	70	-0.01
40	Dibenzo(a,h)anthracene	1.516	1.672	-10.3	71	0.00
41	Benzo(g,h,i)perylene	1.714	1.968	-14.8	73	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036895.D
Acq On : 12 Apr 2025 01:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Apr 12 01:46:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 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	48	0.00
2	1,4-Dioxane	0.400	0.442	-10.5	56	0.00
3	n-Nitrosodimethylamine	0.400	0.459	-14.8	52	0.00
4 S	2-Fluorophenol	0.400	0.429	-7.2	50	0.00
5 S	Phenol-d6	0.400	0.392	2.0	47	0.00
6	bis(2-Chloroethyl)ether	0.400	0.363	9.3	43	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	48	0.00
8 S	Nitrobenzene-d5	0.400	0.372	7.0	44	0.00
9	Naphthalene	0.400	0.430	-7.5	51	0.00
10	Hexachlorobutadiene	0.400	0.420	-5.0	46	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.437	-9.2	51	0.00
12	2-Methylnaphthalene	0.400	0.411	-2.7	48	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	52	0.00
14 S	2,4,6-Tribromophenol	0.400	0.439	-9.7	60	0.00
15 S	2-Fluorobiphenyl	0.400	0.407	-1.7	51	0.00
16	Acenaphthylene	0.400	0.406	-1.5	52	-0.01
17	Acenaphthene	0.400	0.424	-6.0	54	0.00
18	Fluorene	0.400	0.423	-5.7	54	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	55	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.386	3.5	53	0.00
21	4-Bromophenyl-phenylether	0.400	0.437	-9.2	55	0.00
22	Hexachlorobenzene	0.400	0.423	-5.7	53	0.00
23	Atrazine	0.400	0.483	-20.7	59	0.00
24	Pentachlorophenol	0.400	0.477	-19.2	60	-0.01
25	Phenanthrene	0.400	0.428	-7.0	54	-0.01
26	Anthracene	0.400	0.423	-5.7	54	0.00
27 SURR	Fluoranthene-d10	0.400	0.438	-9.5	55	0.00
28	Fluoranthene	0.400	0.431	-7.7	56	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	61	0.00
30	Pyrene	0.400	0.397	0.8	57	0.00
31 S	Terphenyl-d14	0.400	0.403	-0.8	58	0.00
32	Benzo(a)anthracene	0.400	0.417	-4.2	64	0.00
33	Chrysene	0.400	0.424	-6.0	61	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.454	-13.5	71	0.00
35 I	Perylene-d12	0.400	0.400	0.0	67	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.450	-12.5	72	0.00
37	Benzo(b)fluoranthene	0.400	0.417	-4.2	65	0.00
38	Benzo(k)fluoranthene	0.400	0.434	-8.5	70	-0.01
39 C	Benzo(a)pyrene	0.400	0.453	-13.2	70	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.441	-10.2	71	0.00
41	Benzo(g,h,i)perylene	0.400	0.459	-14.8	73	0.00

(#) = Out of Range

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



QC SAMPLE DATA

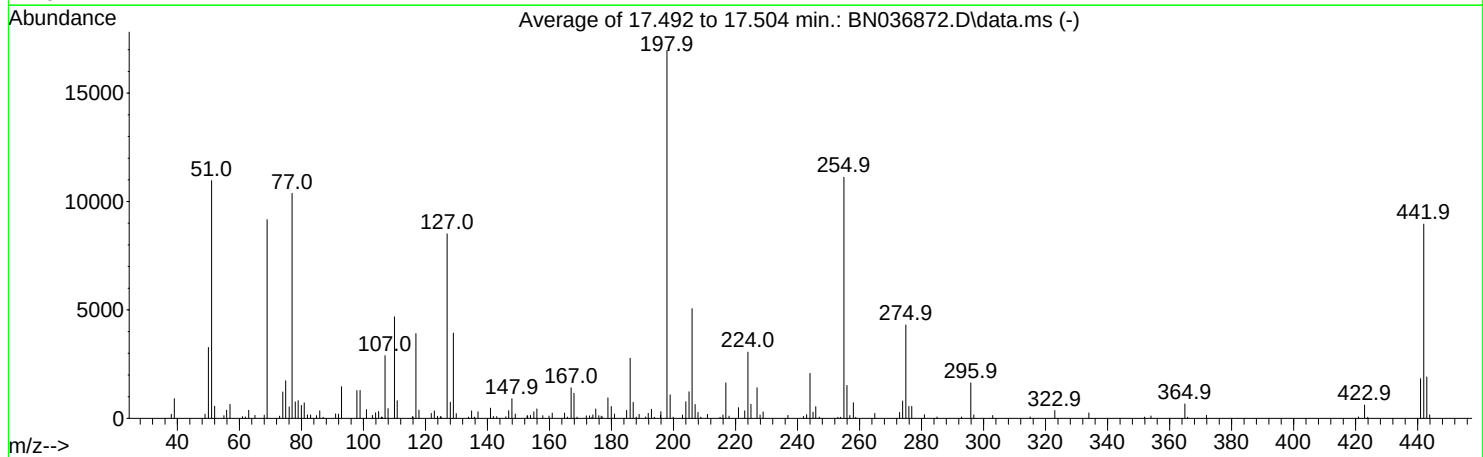
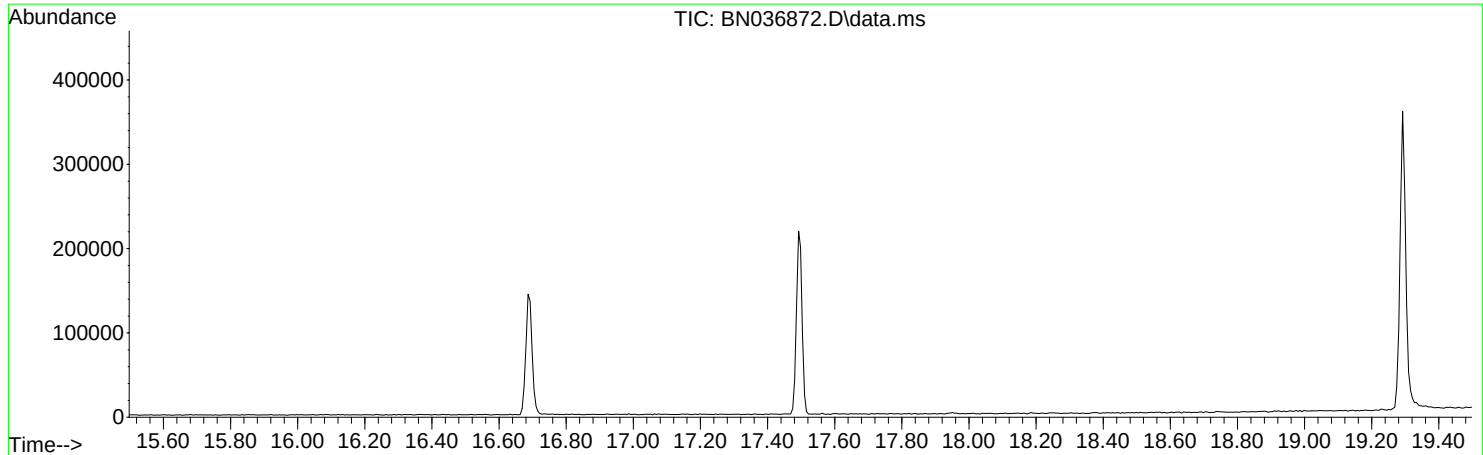
- 1
- 2
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- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036872.D
Acq On : 11 Apr 2025 11:03
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-BN041125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Apr 11 16:11:08 2025



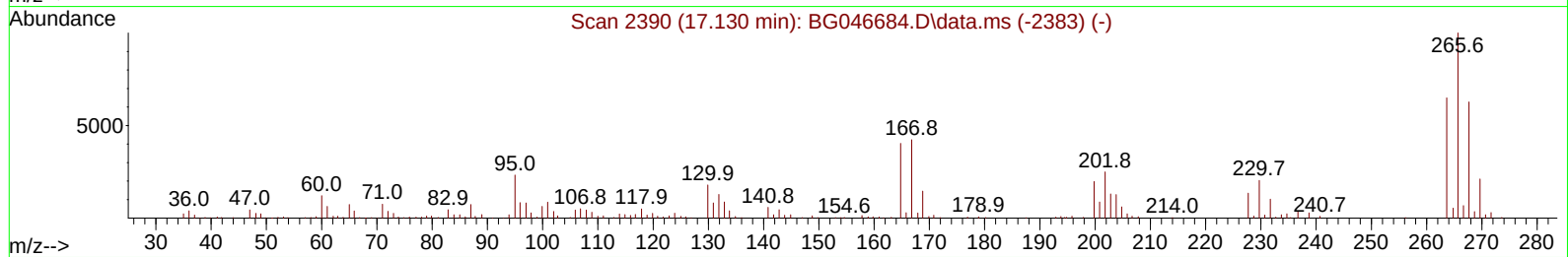
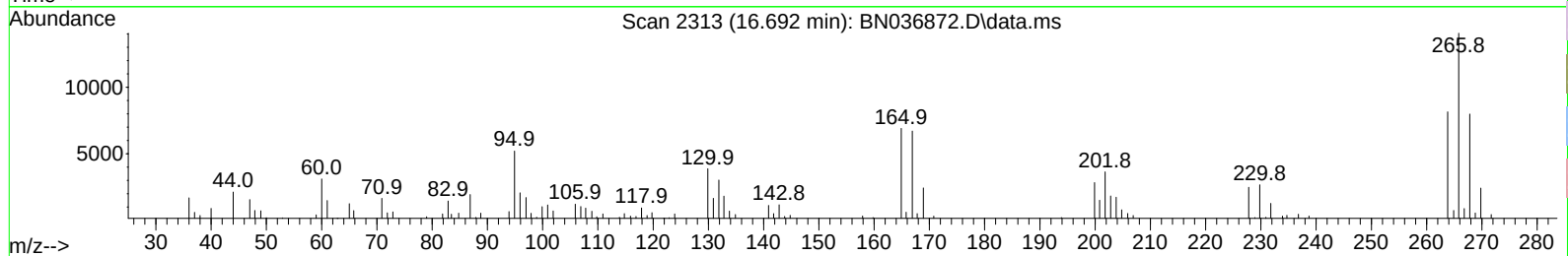
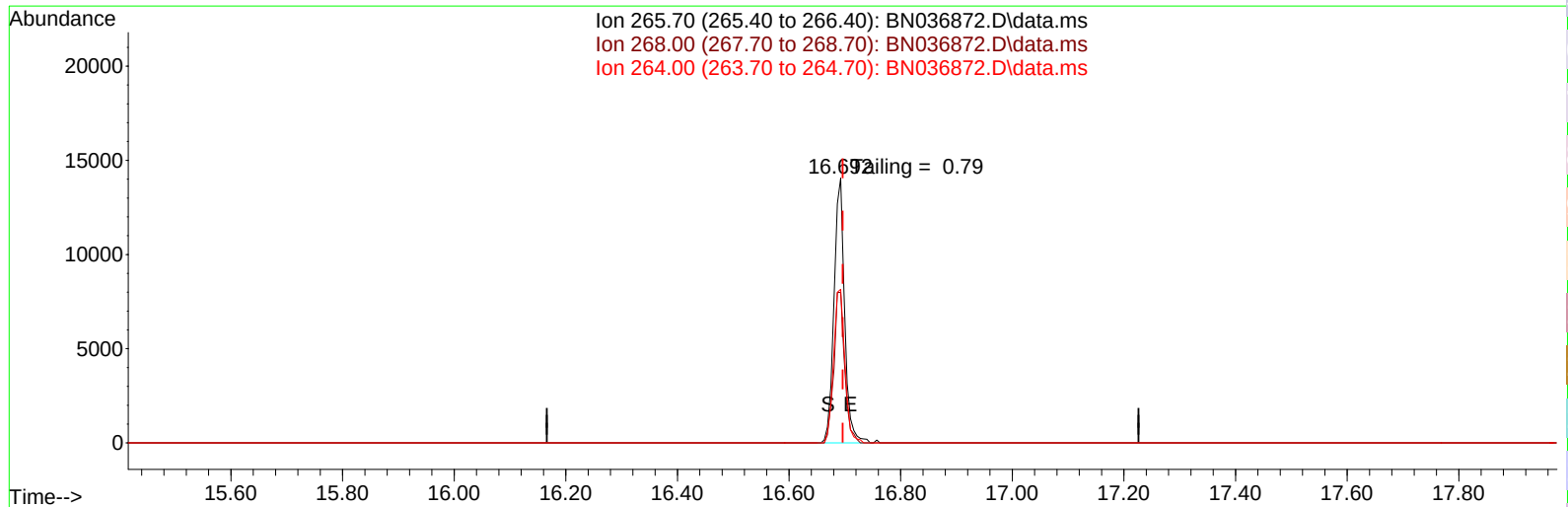
AutoFind: Scans 2449, 2450, 2451; Background Corrected with Scan 2443

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	64.6	10965	PASS
68	69	0.00	2	1.6	147	PASS
69	198	0.00	100	54.0	9164	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	50.2	8509	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	16964	PASS
199	198	5	9	6.4	1083	PASS
275	198	10	60	25.4	4308	PASS
365	198	1	100	3.9	661	PASS
441	198	0.01	100	10.8	1829	PASS
442	442	50	100	100.0	8955	PASS
443	442	15	24	21.3	1910	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036872.D
Acq On : 11 Apr 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 11 16:50:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration



TIC: BN036872.D\data.ms

(70) Pentachlorophenol (C)

16.692min (-0.004) 36331.83 ng

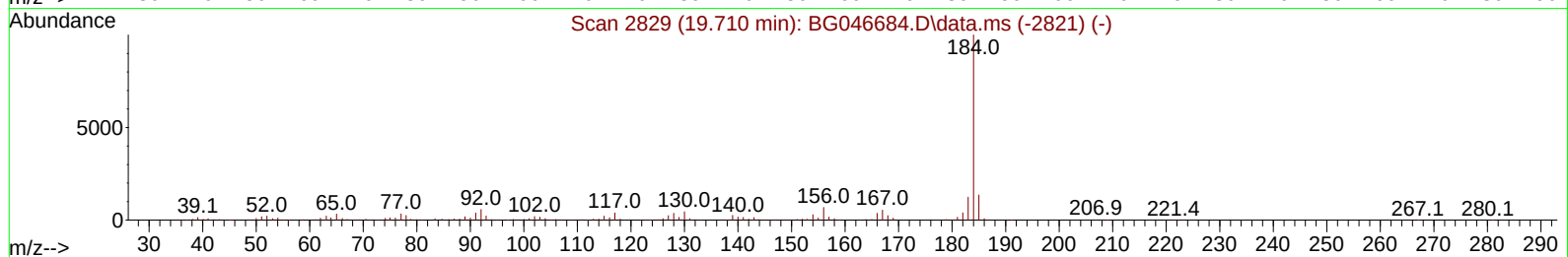
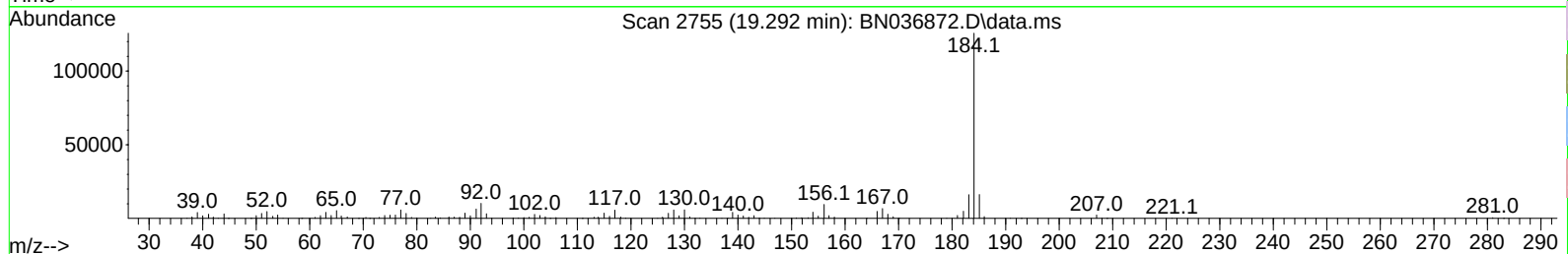
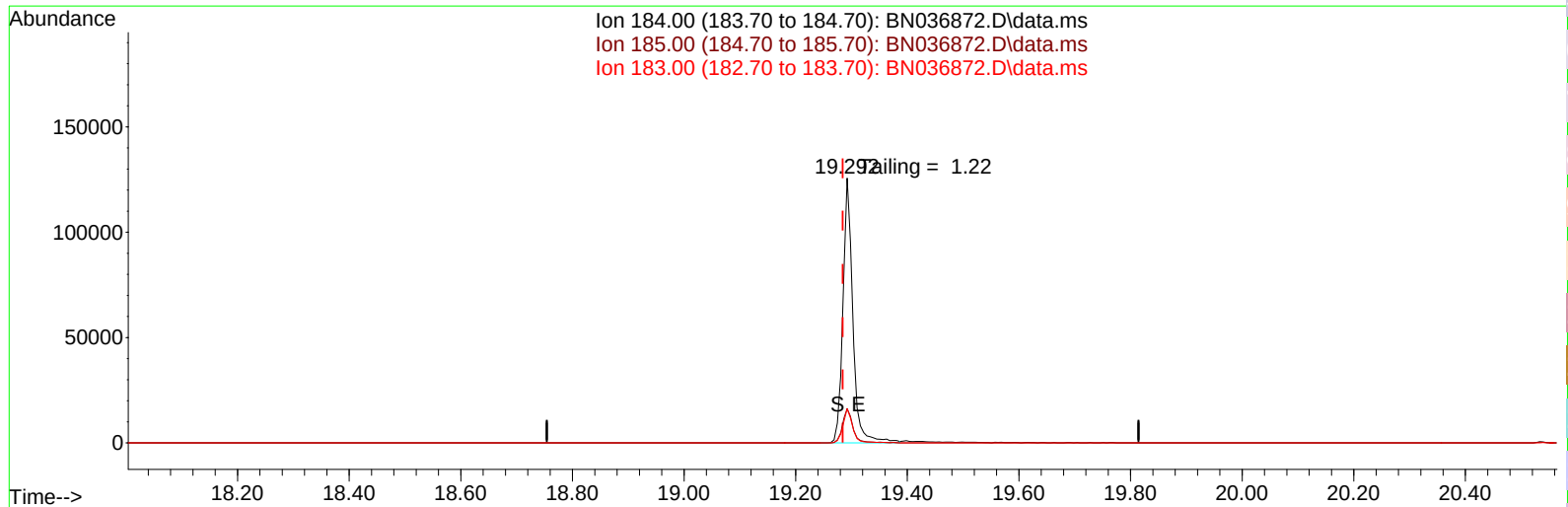
response 18533

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	56.86
264.00	61.60	58.03
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036872.D
Acq On : 11 Apr 2025 11:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 11 16:50:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Apr 01 00:16:52 2025
Response via : Initial Calibration



TIC: BN036872.D\data.ms

(77) Benzidine

19.292min (+ 0.008) 0.00 ng

response 156190

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.01
183.00	13.20	12.90
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

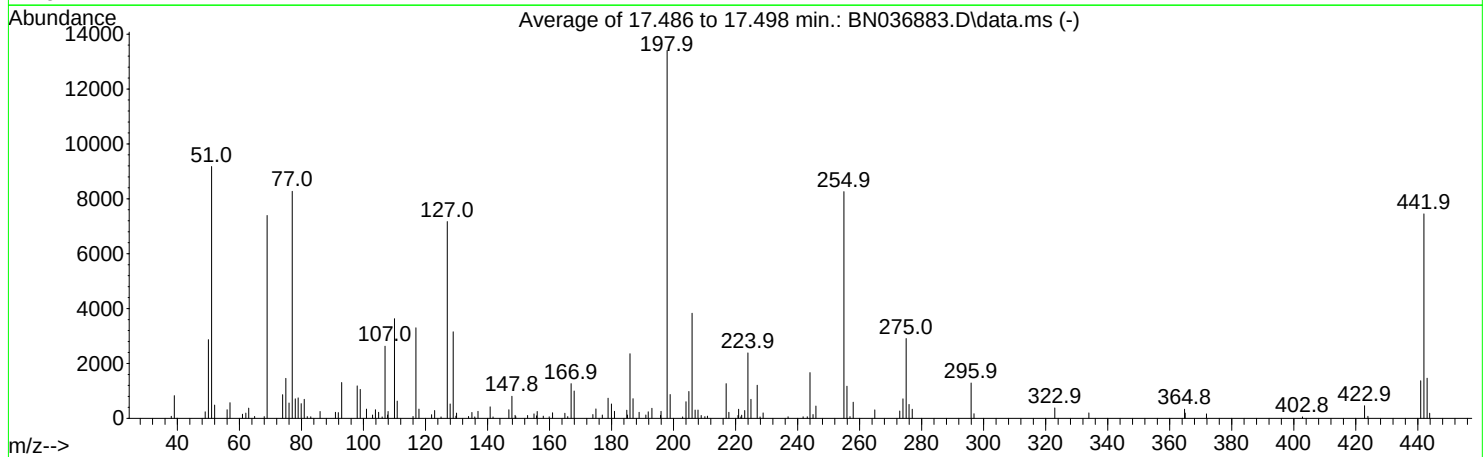
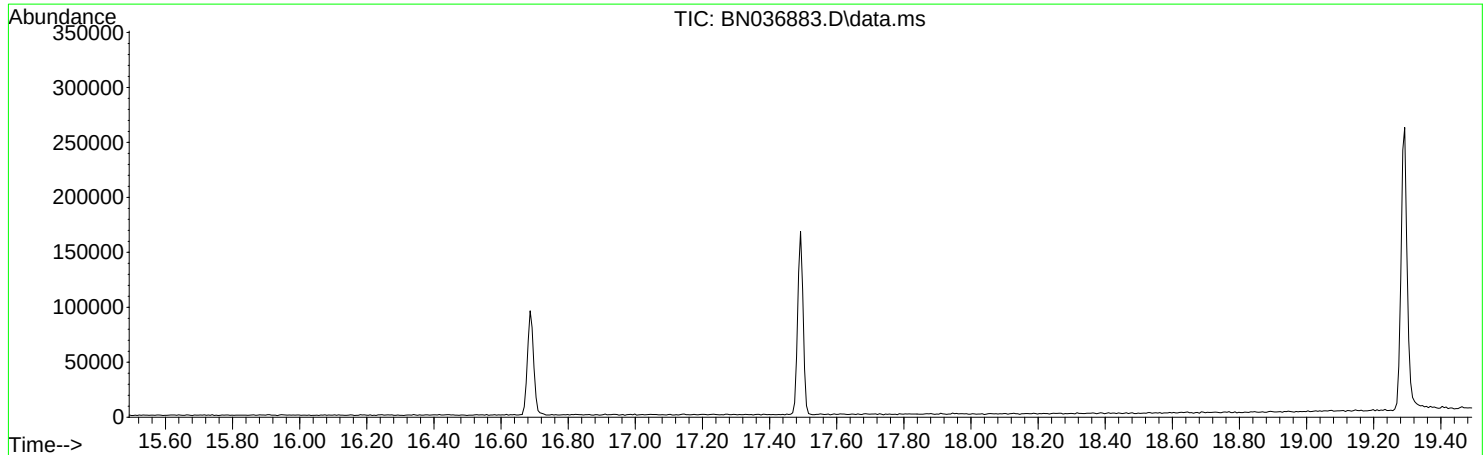
Date	Instrument Name	DFTPP Data File
4/11/2025	BNA_N	<u>BN036872.D</u>
Compound Name	Response	Retention Time
DDT	68421	20.533
DDD	473	20.145
DDE	0	19.621
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
473	68894	0.69

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036883.D
Acq On : 11 Apr 2025 18:06
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-BN041125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Apr 11 16:11:08 2025



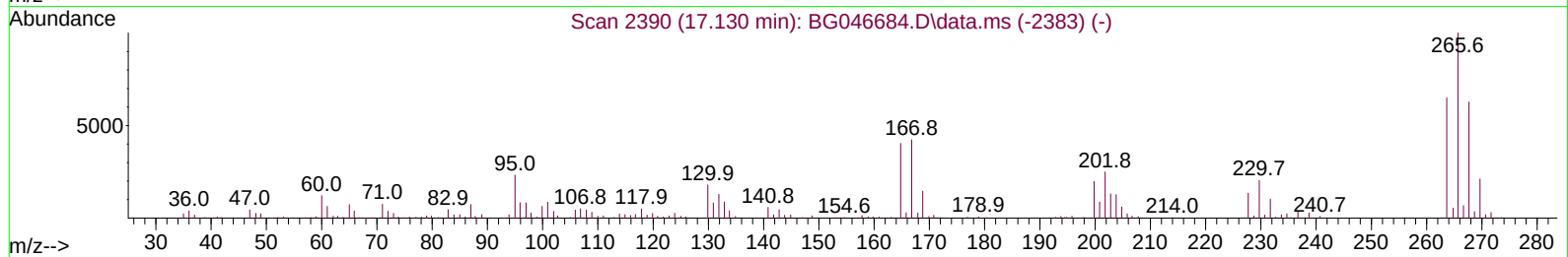
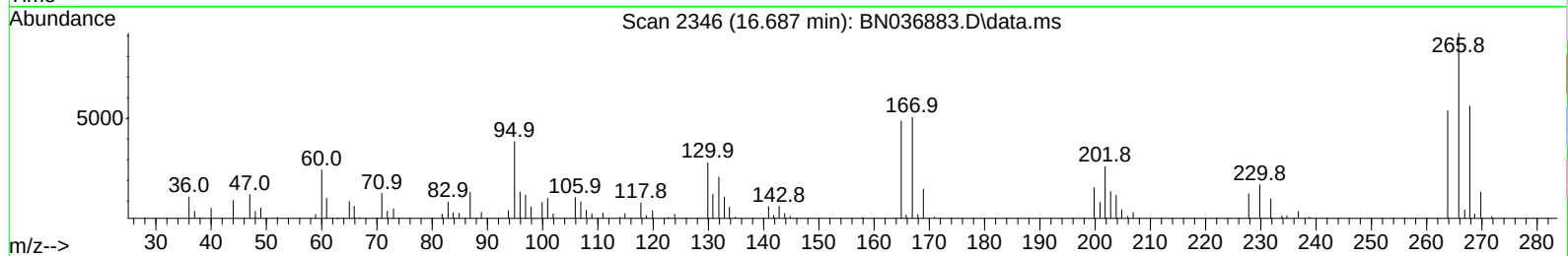
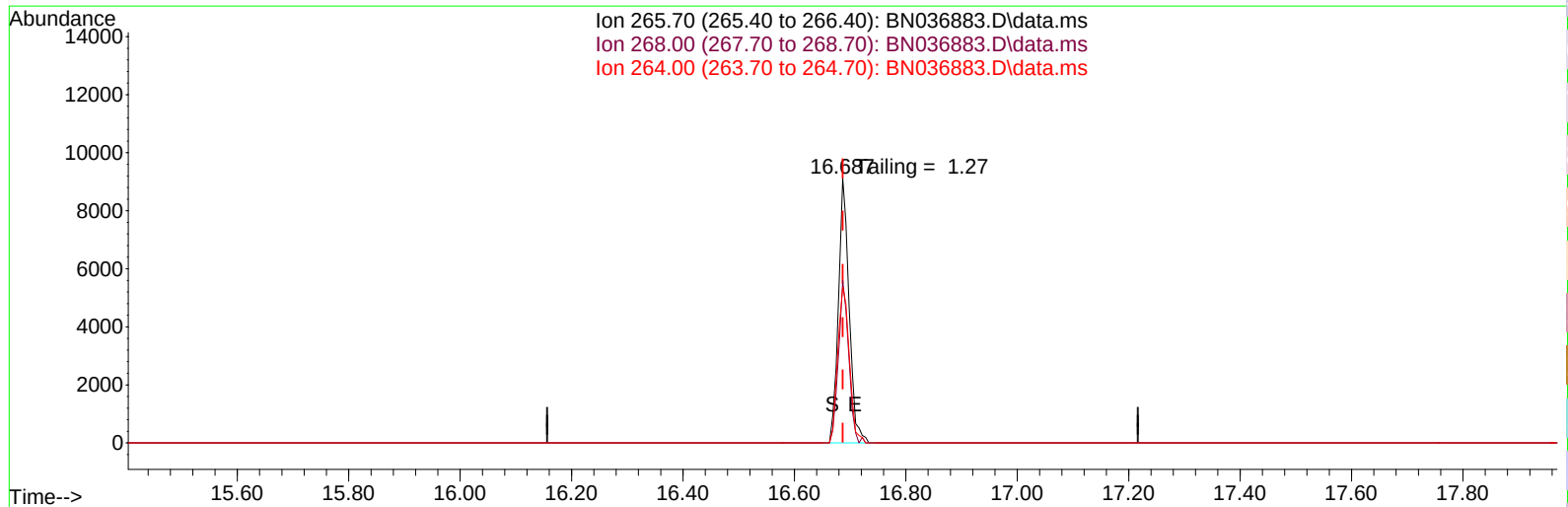
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2476

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
51	198	10	80	68.5	9178	PASS
68	69	0.00	2	0.9	64	PASS
69	198	0.00	100	55.2	7395	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	53.5	7172	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	13404	PASS
199	198	5	9	6.5	866	PASS
275	198	10	60	21.7	2912	PASS
365	198	1	100	2.5	334	PASS
441	198	0.01	100	10.2	1368	PASS
442	442	50	100	100.0	7452	PASS
443	442	15	24	19.6	1464	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036883.D
Acq On : 11 Apr 2025 18:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 11 23:52:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036883.D\data.ms

(70) Pentachlorophenol (C)

16.687min (0.000) 0.00 ng

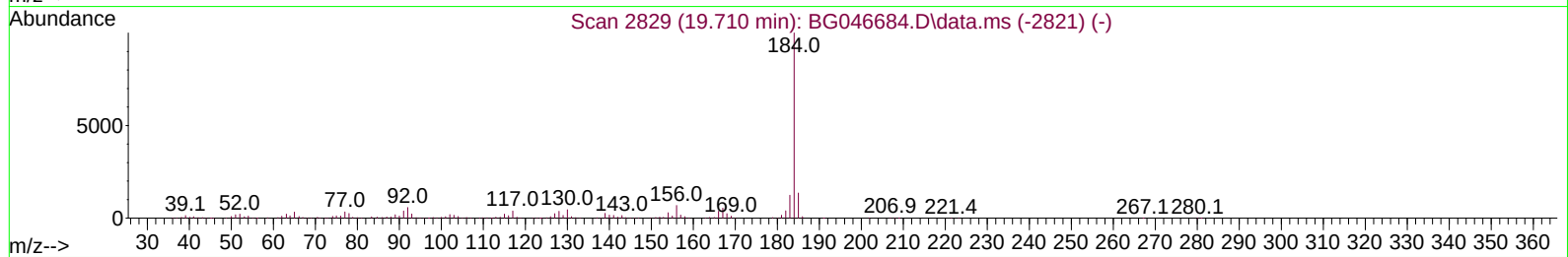
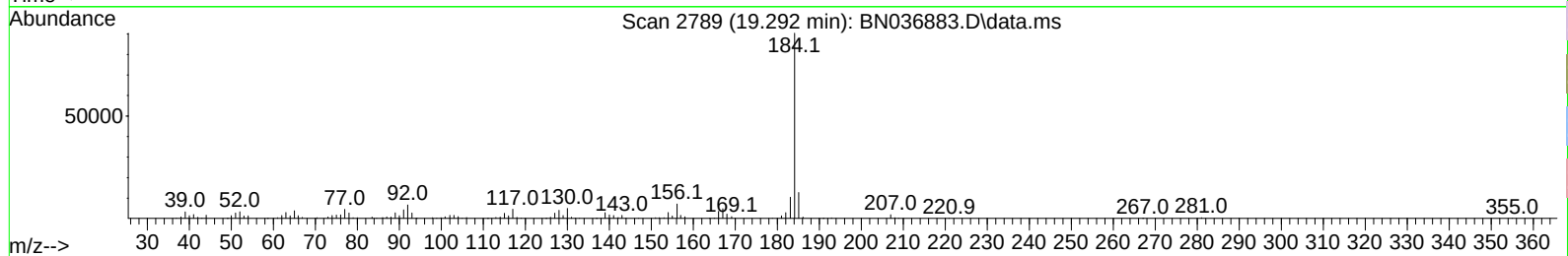
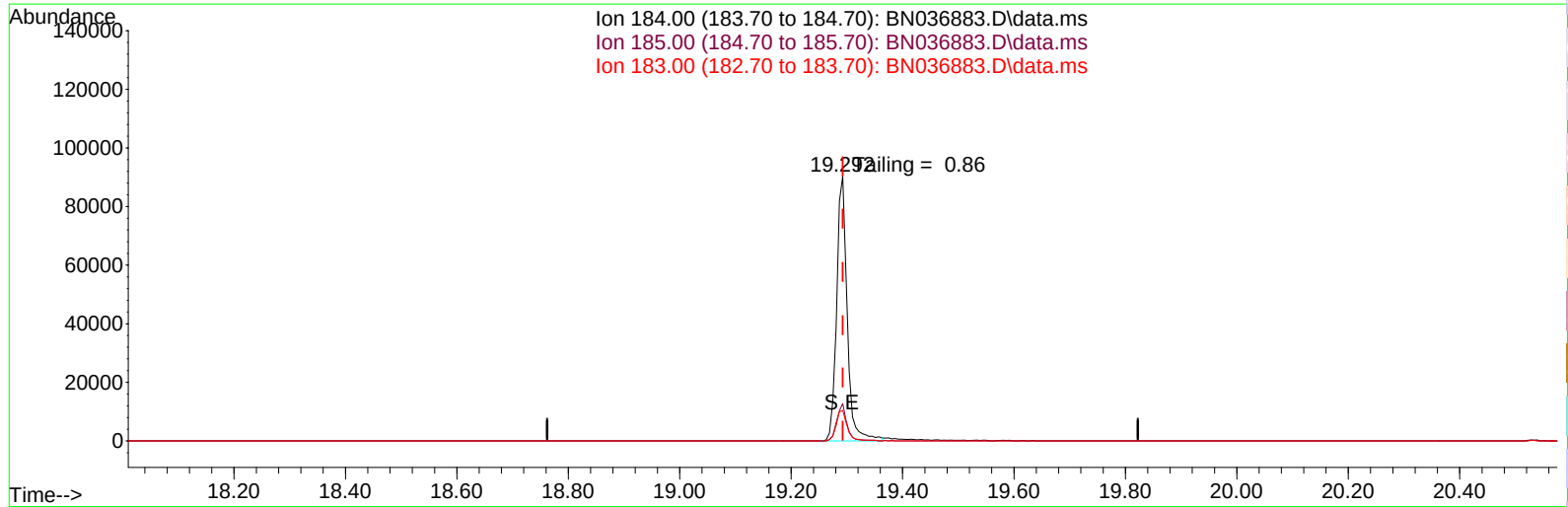
response 12230

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.36
264.00	61.60	58.86
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036883.D
Acq On : 11 Apr 2025 18:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 11 23:52:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036883.D\data.ms

(77) Benzidine

19.292min (0.000) 0.00 ng

response 121284

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.14
183.00	13.20	11.53
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
4/11/2025	BNA_N	<u>BN036883.D</u>
Compound Name	Response	Retention Time
DDT	54631	20.533
DDD	872	20.145
DDE	0	19.621
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
872	55503	1.57

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB167565BL		SDG No.:	Q1773
Lab Sample ID:	PB167565BL		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
BN036885.D	1	04/11/25 09:20	04/11/25 19:21	PB167565

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	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	228		7.64			
1146-65-2	Naphthalene-d8	558		10.426			
15067-26-2	Acenaphthene-d10	321		14.288			
1517-22-2	Phenanthrene-d10	761		17.033			
1719-03-5	Chrysene-d12	945		21.233			
1520-96-3	Perylene-d12	1190		23.45			

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\BN041125\
Data File : BN036885.D
Acq On : 11 Apr 2025 19:21
Operator : RC/JU
Sample : PB167565BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167565BL

Quant Time: Apr 11 23:06:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	228	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	558	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	321	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	761	0.400	ng	# 0.00
29) Chrysene-d12	21.233	240	945	0.400	ng	# 0.00
35) Perylene-d12	23.450	264	1194	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	248	0.462	ng	0.00
5) Phenol-d6	6.824	99	273	0.398	ng	0.00
8) Nitrobenzene-d5	8.803	82	234	0.378	ng	0.01
11) 2-Methylnaphthalene-d10	12.026	152	282	0.348	ng	0.00
14) 2,4,6-Tribromophenol	15.792	330	59	0.381	ng	0.01
15) 2-Fluorobiphenyl	12.914	172	615	0.399	ng	0.00
27) Fluoranthene-d10	19.073	212	976	0.455	ng	0.00
31) Terphenyl-d14	19.676	244	695	0.387	ng	0.00

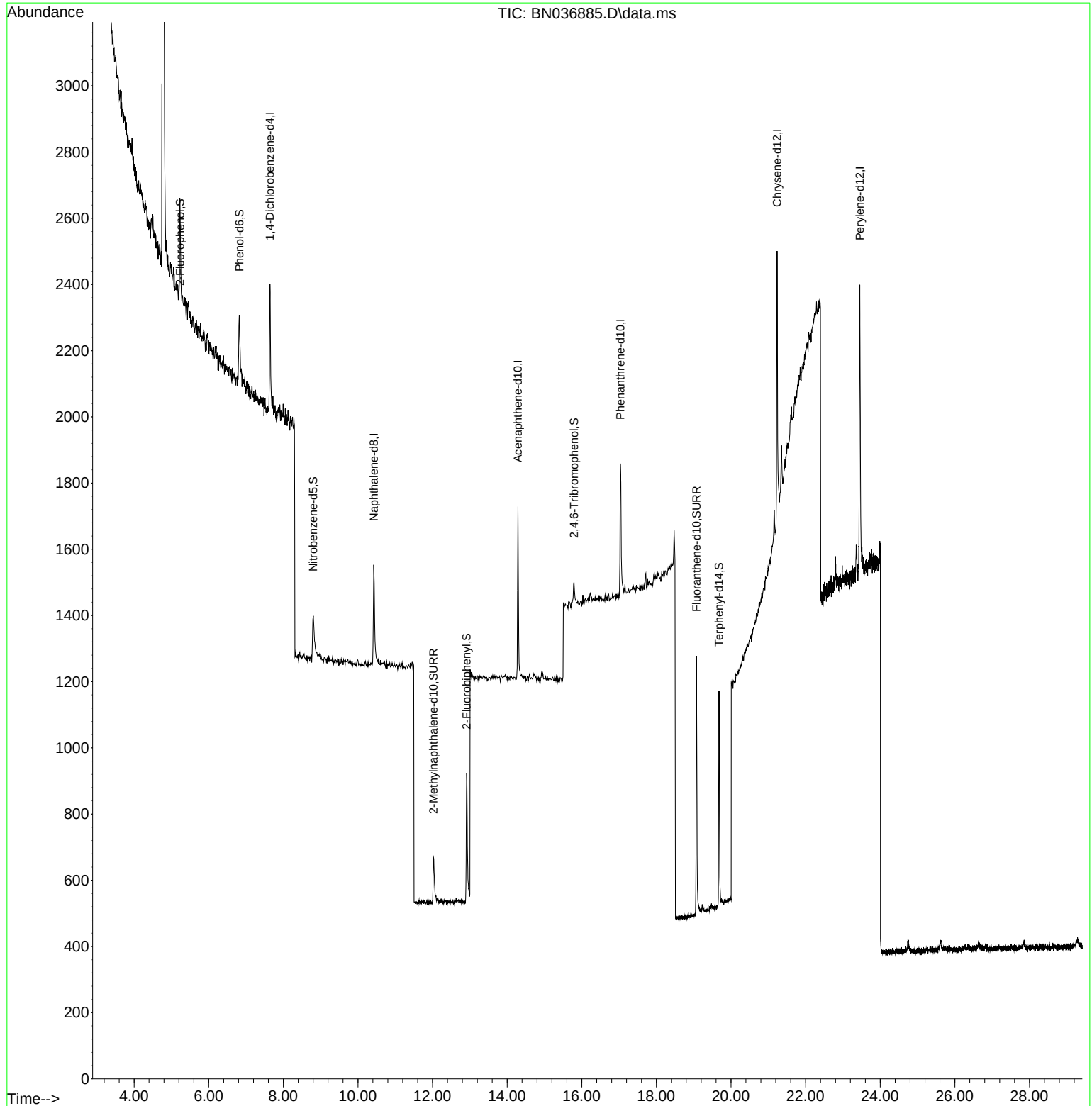
Target Compounds	Qvalue

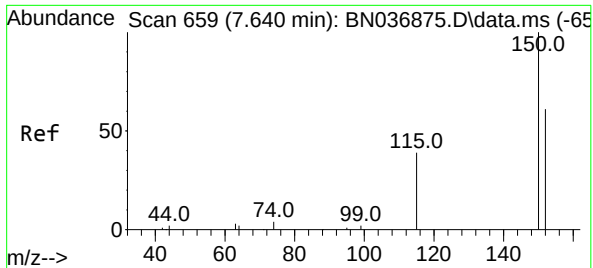
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036885.D
Acq On : 11 Apr 2025 19:21
Operator : RC/JU
Sample : PB167565BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167565BL

Quant Time: Apr 11 23:06:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

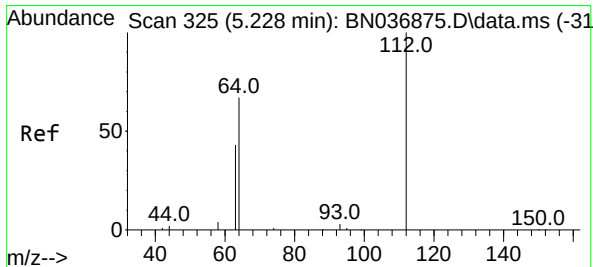
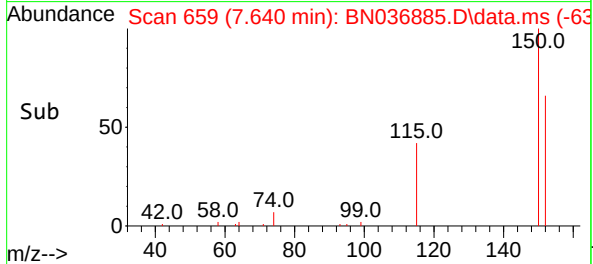
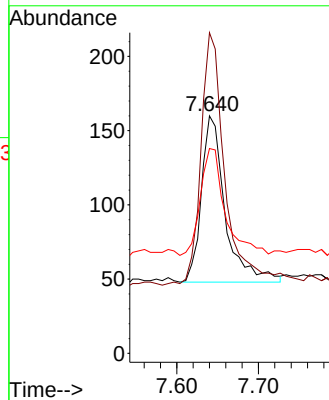
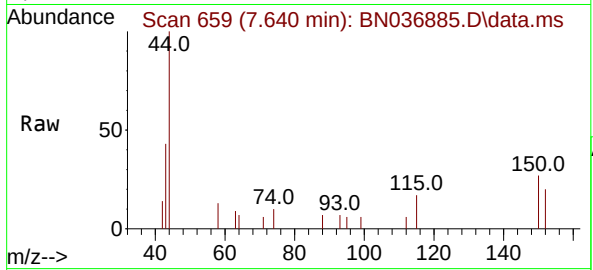




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

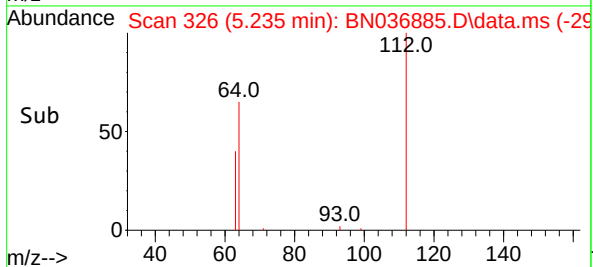
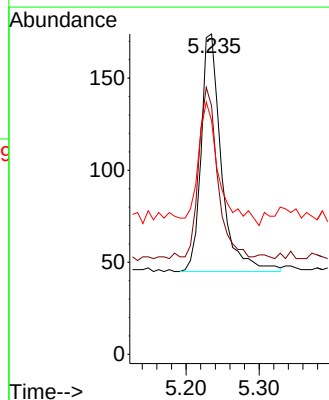
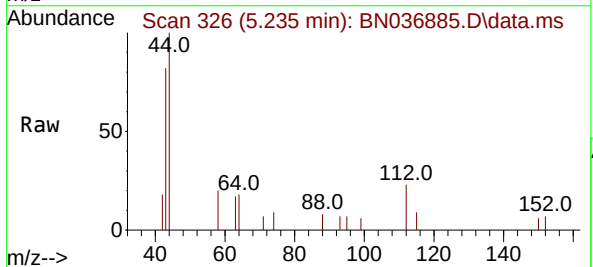
Instrument :
BNA_N
ClientSampleId :
PB167565BL

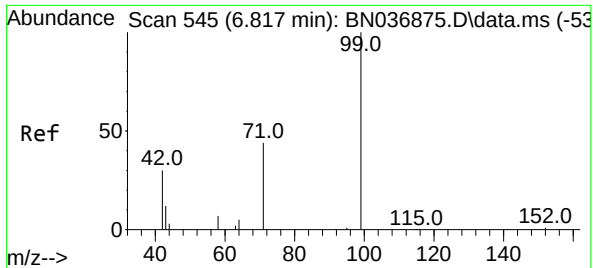
Tgt Ion:152 Resp: 228
Ion Ratio Lower Upper
152 100
150 135.0 123.0 184.6
115 86.3 60.1 90.1



#4
2-Fluorophenol
Concen: 0.462 ng
RT: 5.235 min Scan# 326
Delta R.T. 0.007 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

Tgt Ion:112 Resp: 248
Ion Ratio Lower Upper
112 100
64 66.9 54.0 81.0
63 52.8 35.1 52.7#

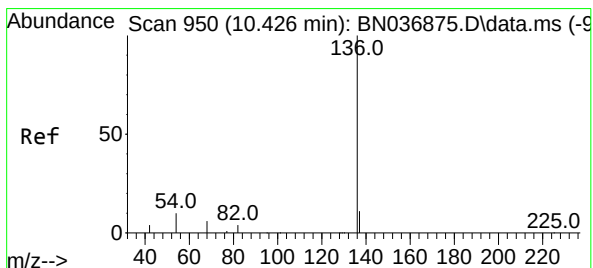
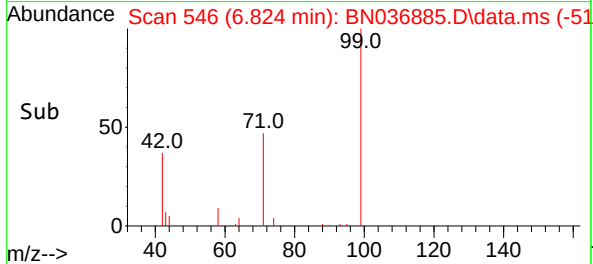
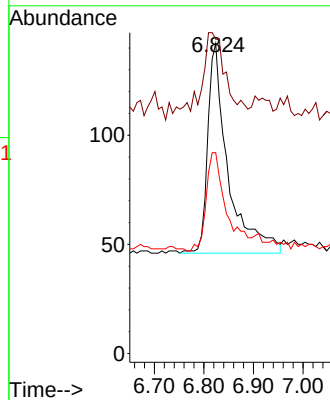
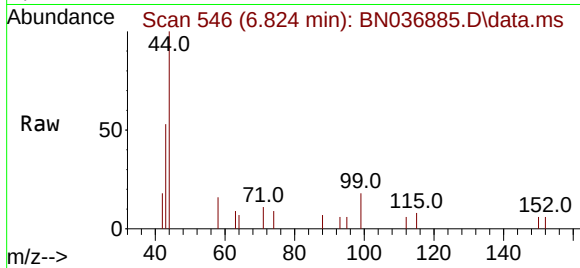




#5
Phenol-d6
Concen: 0.398 ng
RT: 6.824 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

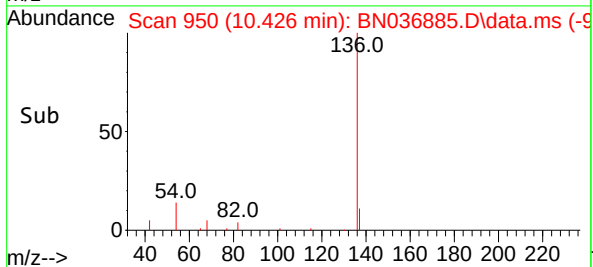
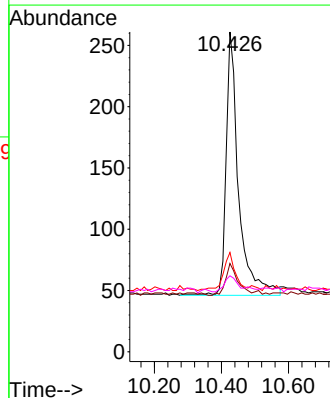
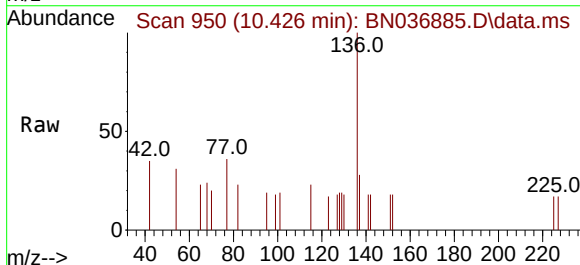
Instrument :
BNA_N
ClientSampleId :
PB167565BL

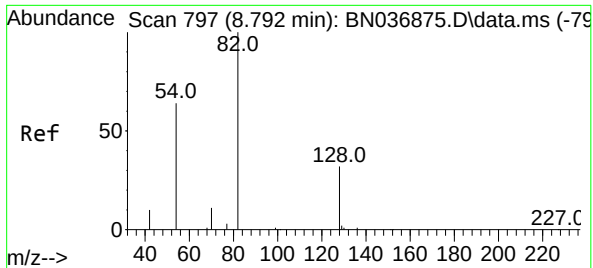
Tgt Ion: 99 Resp: 273
Ion Ratio Lower Upper
99 100
42 54.6 30.9 46.3#
71 46.9 38.6 58.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 950
Delta R.T. -0.000 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

Tgt Ion: 136 Resp: 558
Ion Ratio Lower Upper
136 100
137 27.6 13.5 20.3#
54 31.0 12.8 19.2#
68 23.8 10.1 15.1#

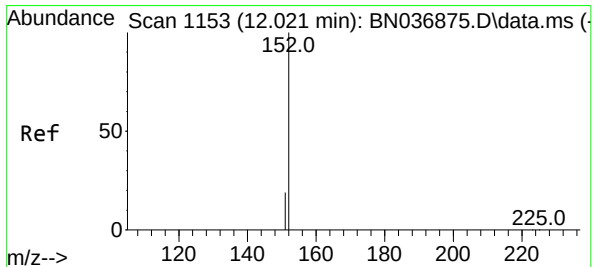
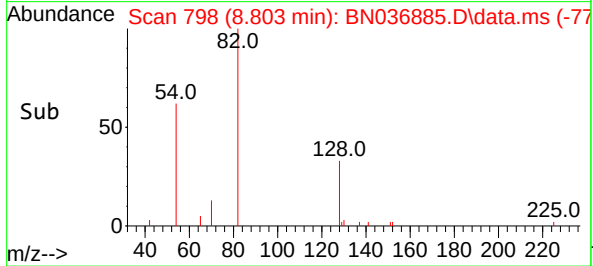
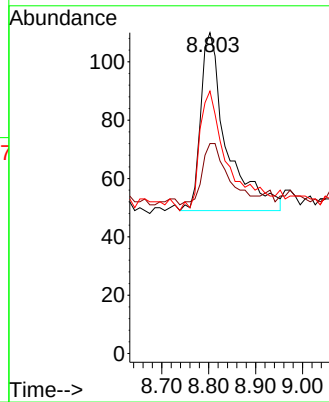
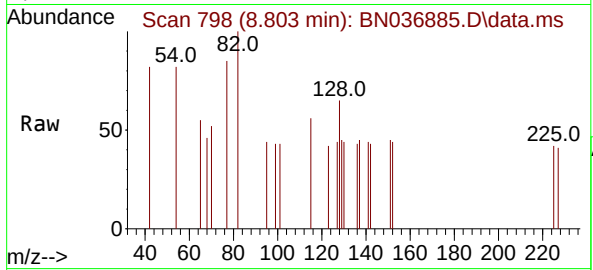




#8
Nitrobenzene-d5
Concen: 0.378 ng
RT: 8.803 min Scan# 798
Delta R.T. 0.011 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

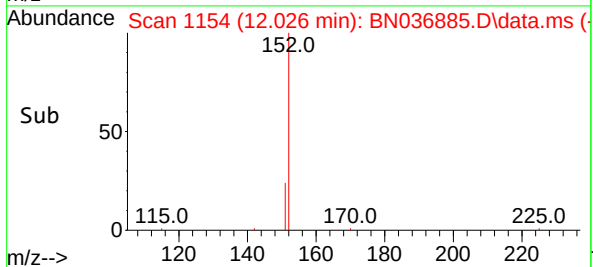
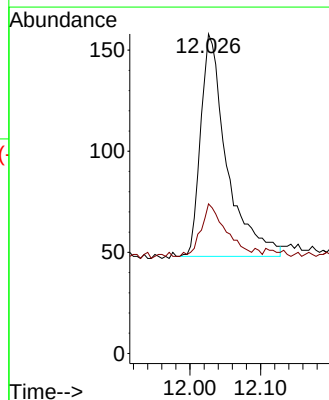
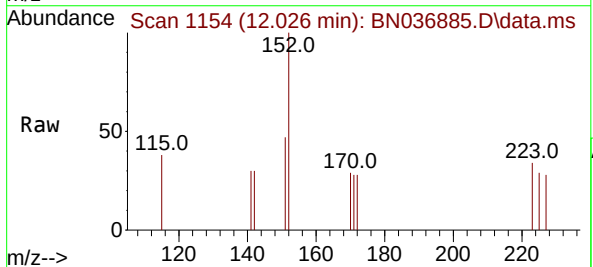
Instrument :
BNA_N
ClientSampleId :
PB167565BL

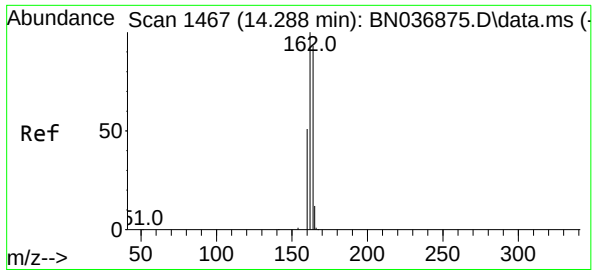
Tgt Ion:	82	Resp:	234
Ion Ratio	Lower	Upper	
82	100		
128	65.5	35.5	53.3#
54	81.8	56.2	84.4



#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

Tgt Ion:	152	Resp:	282
Ion Ratio	Lower	Upper	
152	100		
151	22.3	17.8	26.8

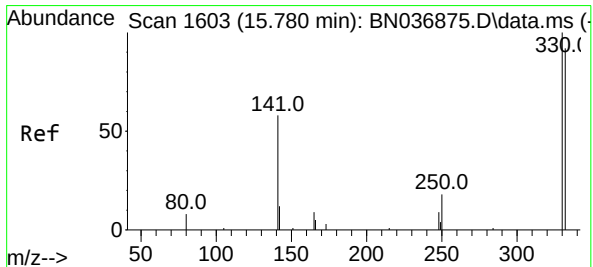
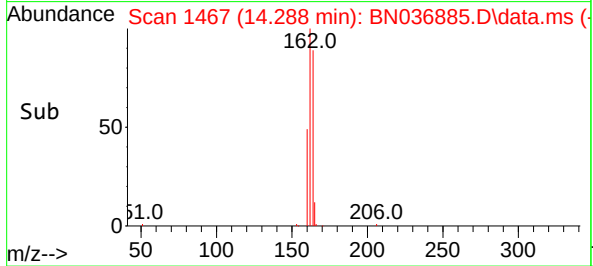
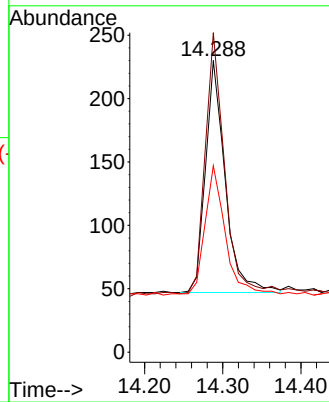
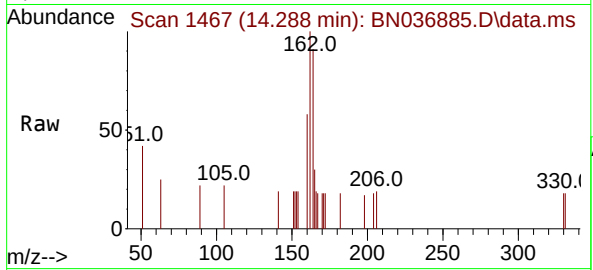




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

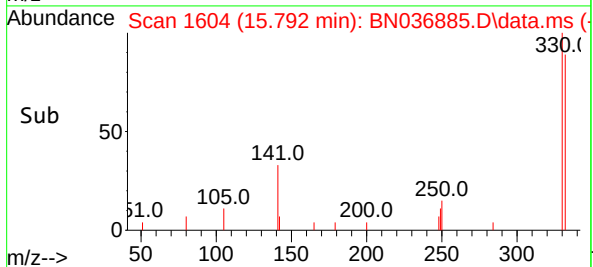
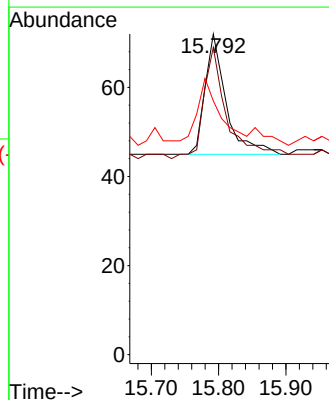
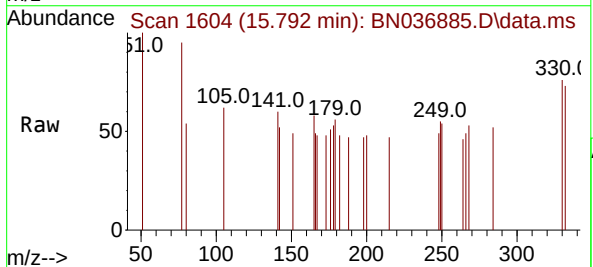
Instrument :
BNA_N
ClientSampleId :
PB167565BL

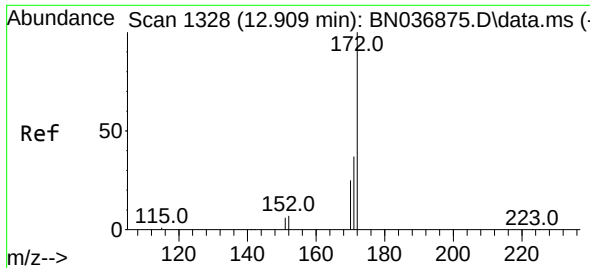
Tgt Ion:	164	Resp:	321
Ion	Ratio	Lower	Upper
164	100		
162	109.6	85.7	128.5
160	63.9	46.9	70.3



#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.792 min Scan# 1604
Delta R.T. 0.012 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

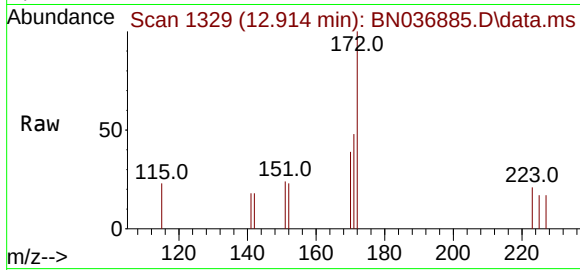
Tgt Ion:	330	Resp:	59
Ion	Ratio	Lower	Upper
330	100		
332	106.8	87.0	130.6
141	52.5	45.3	67.9



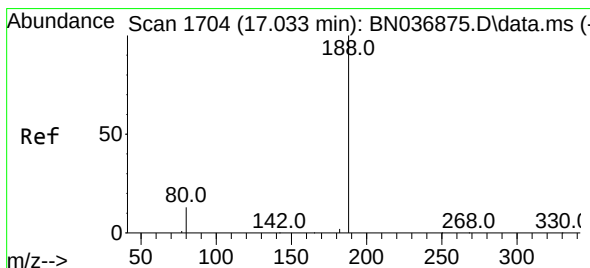
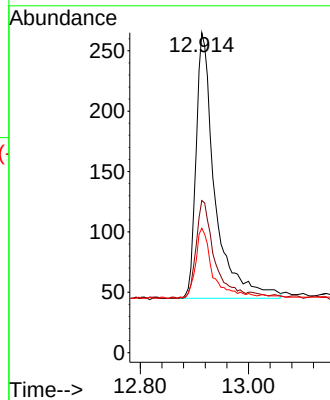
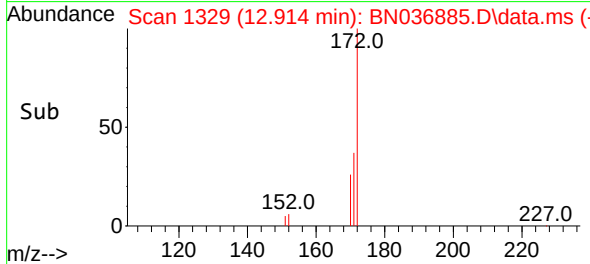


#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.914 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

Instrument :
BNA_N
ClientSampleId :
PB167565BL

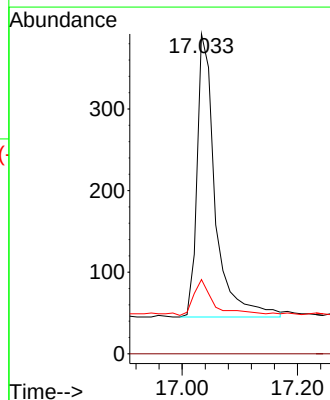
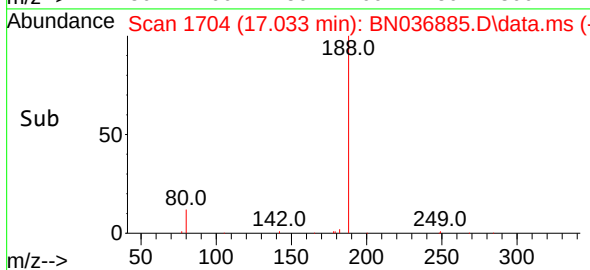
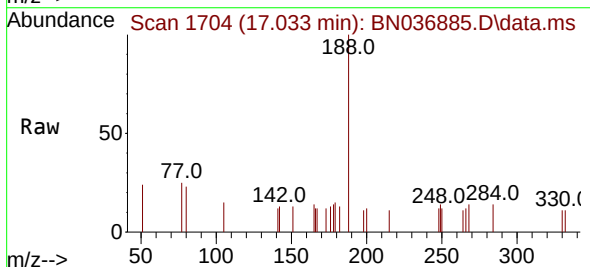


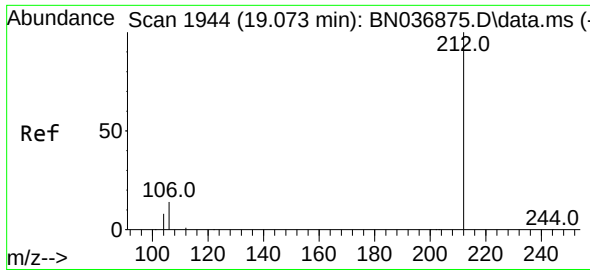
Tgt Ion:172 Resp: 615
Ion Ratio Lower Upper
172 100
171 47.5 32.7 49.1
170 38.9 23.3 34.9#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

Tgt Ion:188 Resp: 761
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 23.2 13.9 20.9#





#27

Fluoranthene-d10

Concen: 0.455 ng

RT: 19.073 min Scan# 1944

Delta R.T. -0.000 min

Lab File: BN036885.D

Acq: 11 Apr 2025 19:21

Instrument :

BNA_N

ClientSampleId :

PB167565BL

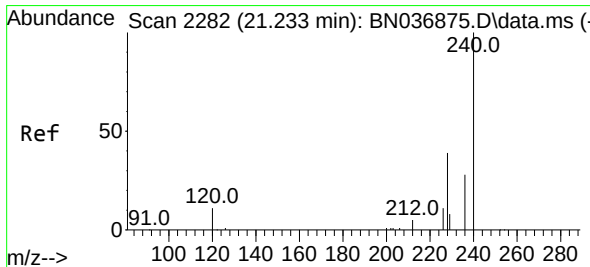
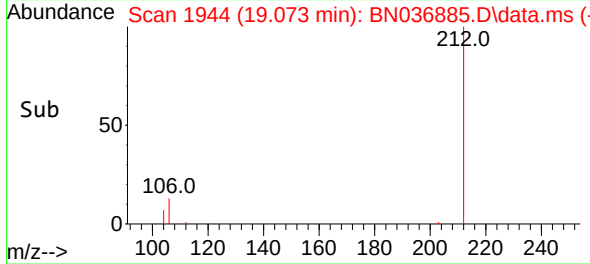
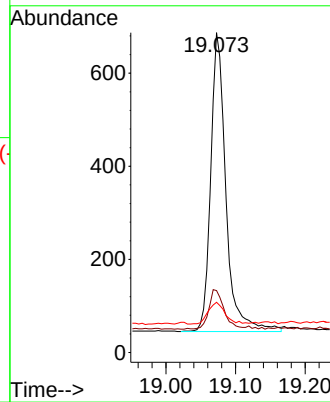
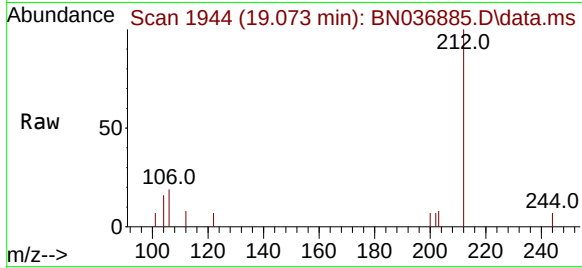
Tgt Ion:212 Resp: 976

Ion Ratio Lower Upper

212 100

106 13.2 11.2 16.8

104 8.1 7.5 11.3



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 2282

Delta R.T. -0.000 min

Lab File: BN036885.D

Acq: 11 Apr 2025 19:21

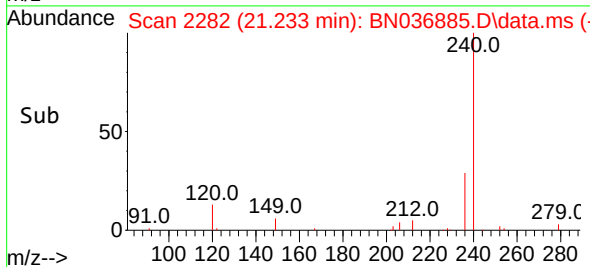
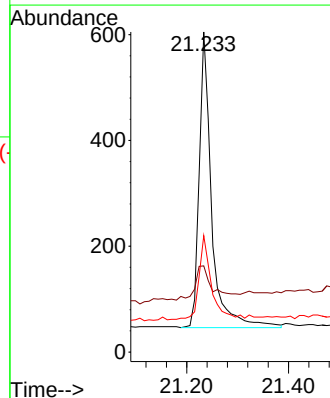
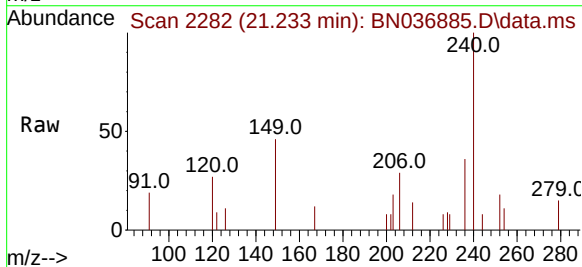
Tgt Ion:240 Resp: 945

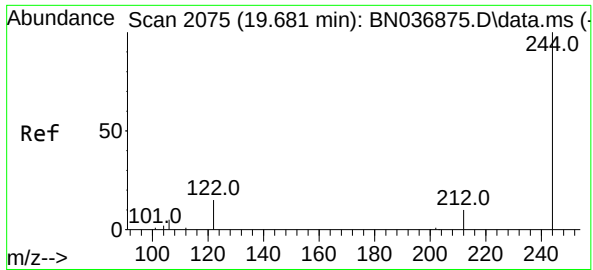
Ion Ratio Lower Upper

240 100

120 26.9 15.8 23.6#

236 36.4 25.8 38.8

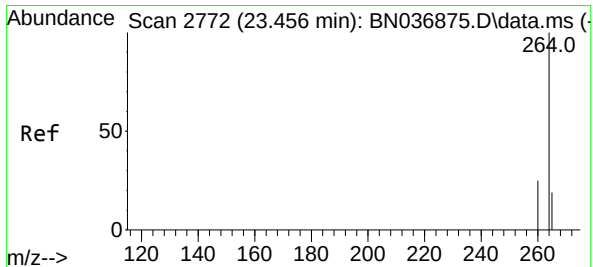
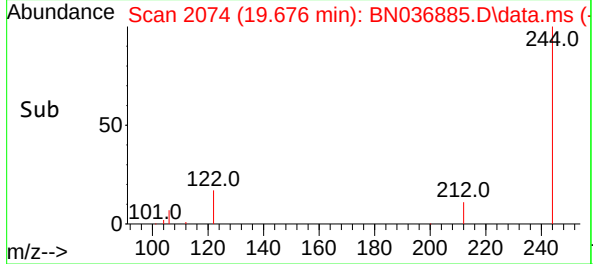
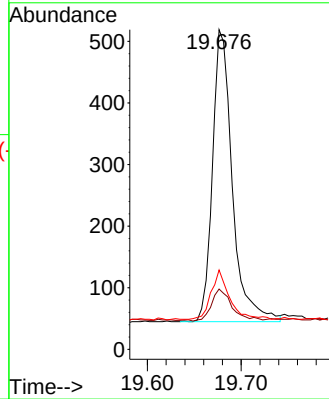
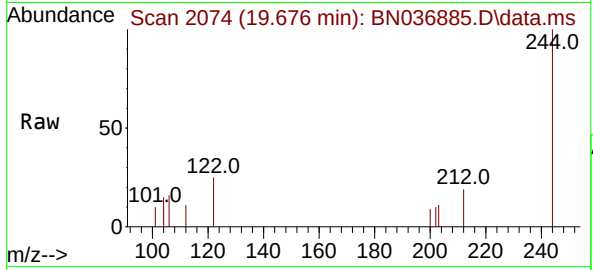




#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.676 min Scan# 2075
Delta R.T. -0.005 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

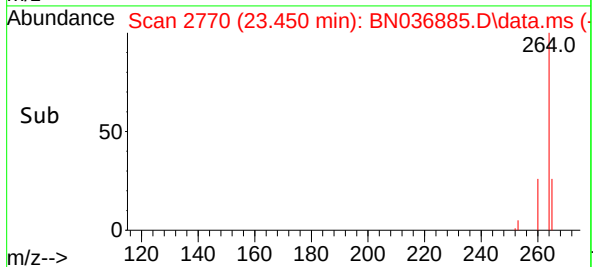
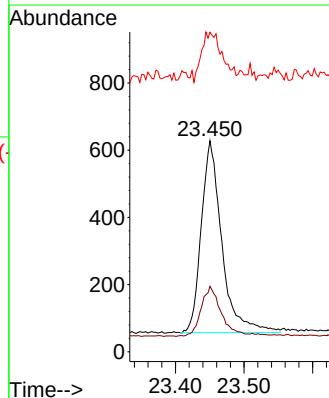
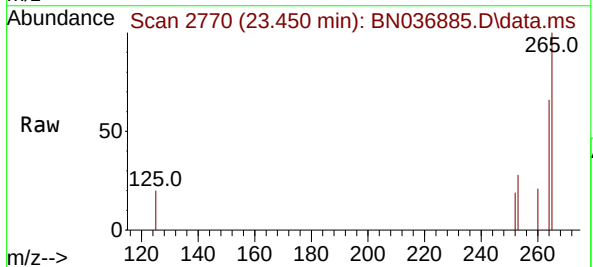
Instrument :
BNA_N
ClientSampleId :
PB167565BL

Tgt Ion:244 Resp: 695
Ion Ratio Lower Upper
244 100
212 18.9 11.6 17.4#
122 24.9 14.9 22.3#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.450 min Scan# 2770
Delta R.T. -0.006 min
Lab File: BN036885.D
Acq: 11 Apr 2025 19:21

Tgt Ion:264 Resp: 1194
Ion Ratio Lower Upper
264 100
260 31.1 22.9 34.3
265 151.4 88.6 132.8#



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB167565BS		SDG No.:	Q1773
Lab Sample ID:	PB167565BS		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
BN036891.D	1	04/11/25 09:20	04/11/25 22:57	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.35		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.46		30 - 150		116%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		115%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		100%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	208	7.64				
1146-65-2	Naphthalene-d8	496	10.426				
15067-26-2	Acenaphthene-d10	321	14.288				
1517-22-2	Phenanthrene-d10	731	17.033				
1719-03-5	Chrysene-d12	908	21.233				
1520-96-3	Perylene-d12	1140	23.447				

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\BN041125\
 Data File : BN036891.D
 Acq On : 11 Apr 2025 22:57
 Operator : RC/JU
 Sample : PB167565BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167565BS

Quant Time: Apr 12 00:00:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

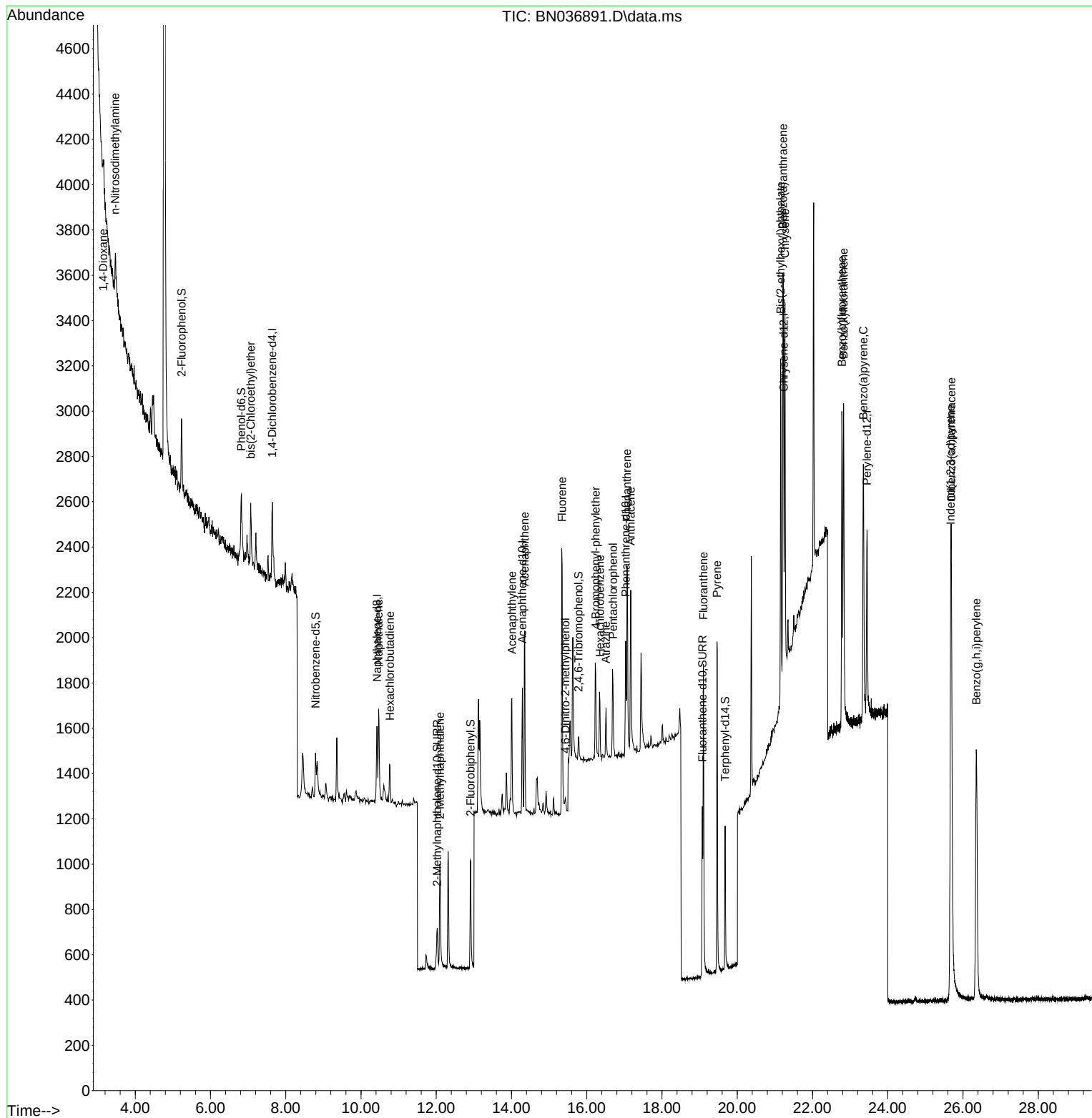
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	208	0.400	ng	# 0.00
7) Naphthalene-d8	10.426	136	496	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	321	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	731	0.400	ng	# 0.00
29) Chrysene-d12	21.233	240	908	0.400	ng	# 0.00
35) Perylene-d12	23.447	264	1138	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	252	0.515	ng	0.00
5) Phenol-d6	6.817	99	296	0.473	ng	0.00
8) Nitrobenzene-d5	8.792	82	211	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	334m	0.463	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	71	0.459	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	592	0.384	ng	0.00
27) Fluoranthene-d10	19.073	212	950	0.461	ng	0.00
31) Terphenyl-d14	19.677	244	690	0.400	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	84	0.348	ng	# 3
3) n-Nitrosodimethylamine	3.465	42	215	0.402	ng	# 89
6) bis(2-Chloroethyl)ether	7.069	93	226	0.368	ng	95
9) Naphthalene	10.468	128	637	0.446	ng	# 83
10) Hexachlorobutadiene	10.767	225	158	0.488	ng	# 91
12) 2-Methylnaphthalene	12.097	142	407	0.443	ng	# 91
16) Acenaphthylene	14.010	152	647	0.434	ng	97
17) Acenaphthene	14.352	154	427	0.440	ng	95
18) Fluorene	15.346	166	595	0.444	ng	95
20) 4,6-Dinitro-2-methylph...	15.432	198	74	0.427	ng	# 62
21) 4-Bromophenyl-phenylether	16.239	248	188	0.429	ng	95
22) Hexachlorobenzene	16.351	284	212	0.409	ng	93
23) Atrazine	16.512	200	221	0.516	ng	# 85
24) Pentachlorophenol	16.698	266	226	0.832	ng	# 84
25) Phenanthrene	17.071	178	1018	0.464	ng	97
26) Anthracene	17.170	178	954	0.488	ng	98
28) Fluoranthene	19.100	202	1343	0.487	ng	99
30) Pyrene	19.463	202	1436	0.418	ng	98
32) Benzo(a)anthracene	21.215	228	1428	0.445	ng	98
33) Chrysene	21.269	228	1672	0.473	ng	98
34) Bis(2-ethylhexyl)phtha...	21.153	149	1144	0.481	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.672	276	2802	0.516	ng	99
37) Benzo(b)fluoranthene	22.781	252	1814	0.449	ng	92
38) Benzo(k)fluoranthene	22.825	252	1937	0.476	ng	# 89
39) Benzo(a)pyrene	23.351	252	1752	0.495	ng	95
40) Dibenzo(a,h)anthracene	25.690	278	2199	0.510	ng	95
41) Benzo(g,h,i)perylene	26.354	276	2329	0.478	ng	96

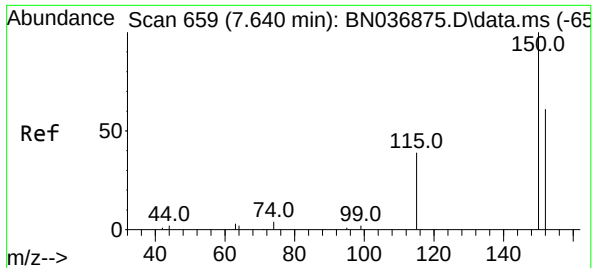
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036891.D
Acq On : 11 Apr 2025 22:57
Operator : RC/JU
Sample : PB167565BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167565BS

Quant Time: Apr 12 00:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

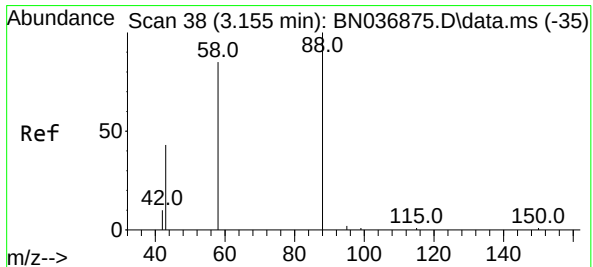
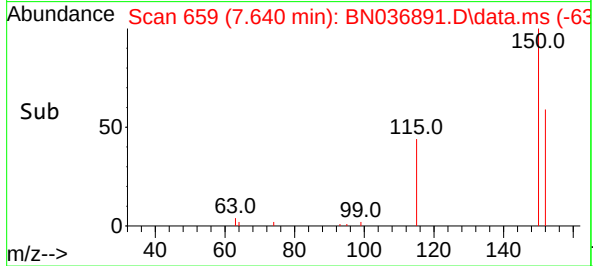
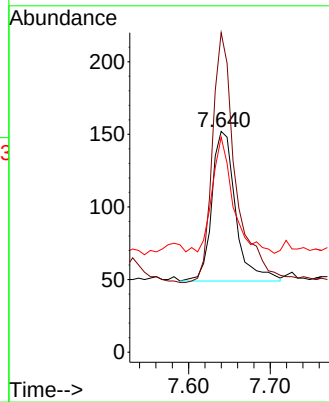
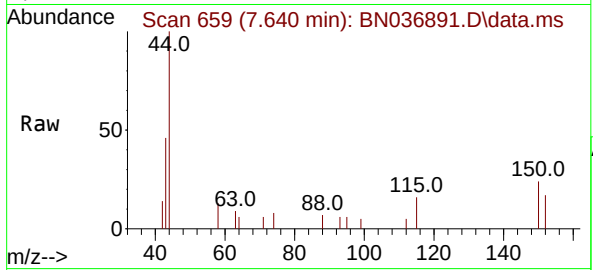




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

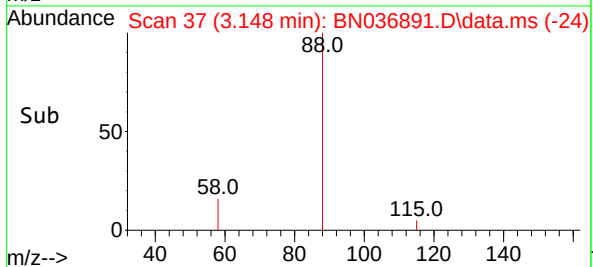
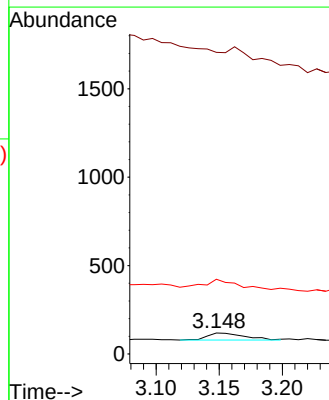
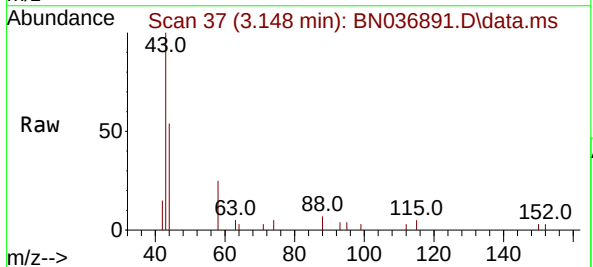
Instrument :
BNA_N
ClientSampleId :
PB167565BS

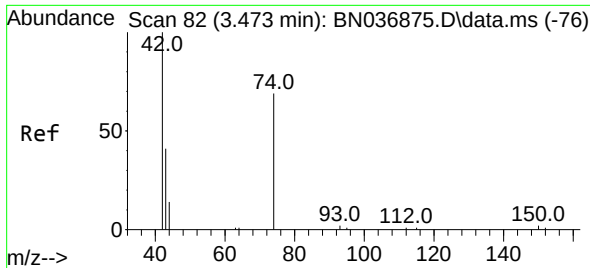
Tgt Ion:152 Resp: 208
Ion Ratio Lower Upper
152 100
150 144.7 123.0 184.6
115 97.4 60.1 90.1#



#2
1,4-Dioxane
Concen: 0.348 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion: 88 Resp: 84
Ion Ratio Lower Upper
88 100
43 0.0 39.2 58.8#
58 178.6 63.5 95.3#

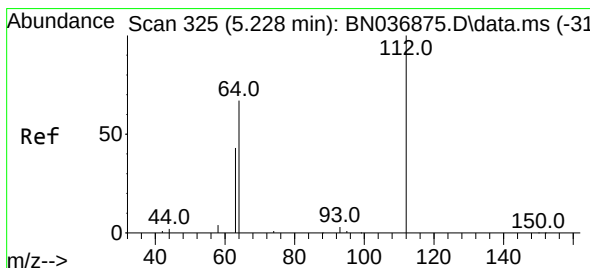
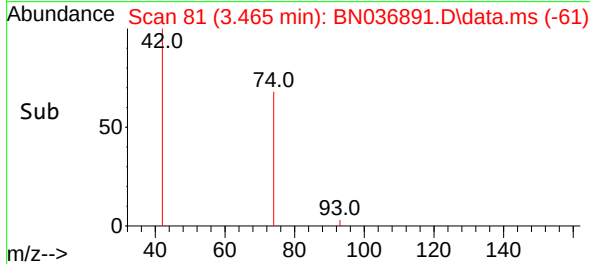
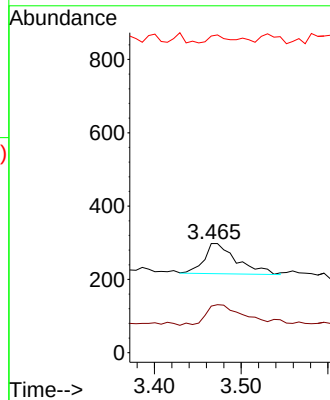
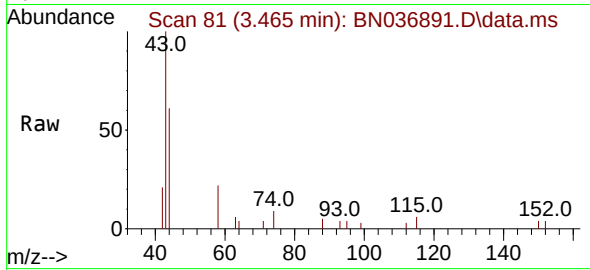




#3
n-Nitrosodimethylamine
Concen: 0.402 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

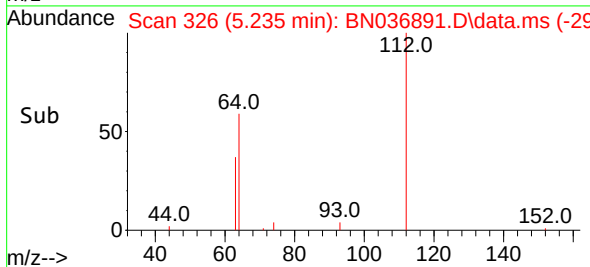
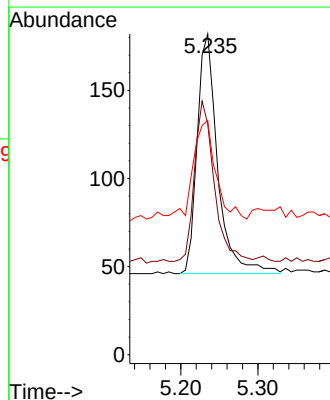
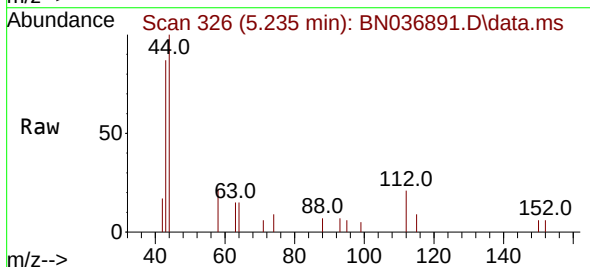
Instrument :
BNA_N
ClientSampleId :
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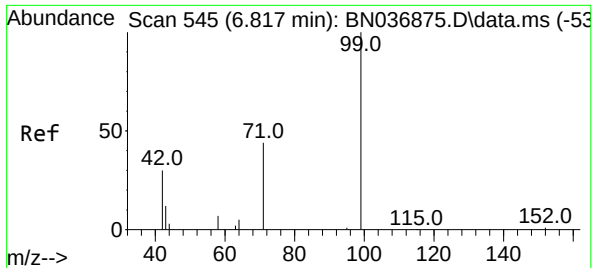
Tgt Ion: 42 Resp: 215
Ion Ratio Lower Upper
42 100
74 76.7 54.6 81.8
44 13.0 0.0 0.0#



#4
2-Fluorophenol
Concen: 0.515 ng
RT: 5.235 min Scan# 326
Delta R.T. 0.007 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion: 112 Resp: 252
Ion Ratio Lower Upper
112 100
64 63.5 54.0 81.0
63 44.8 35.1 52.7

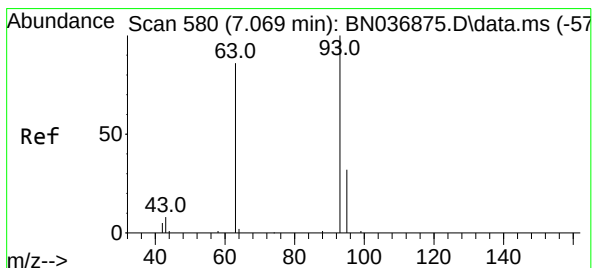
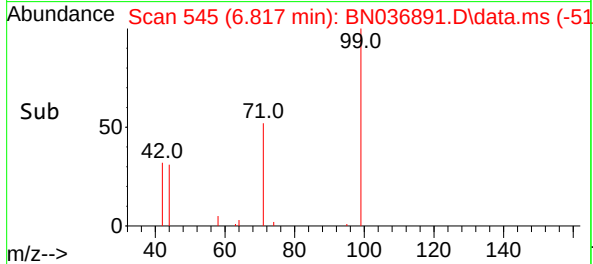
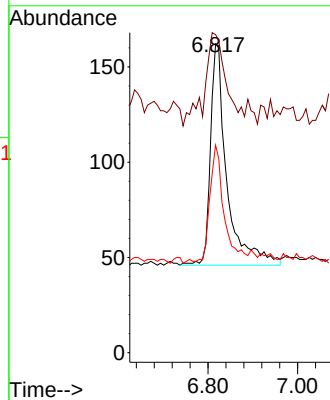
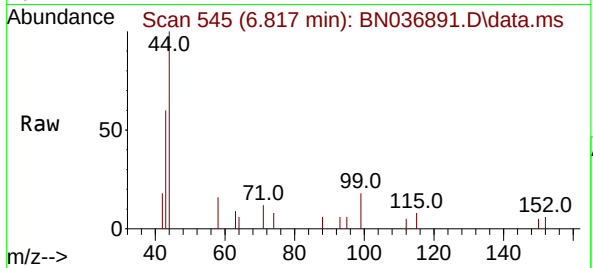




#5
Phenol-d6
Concen: 0.473 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

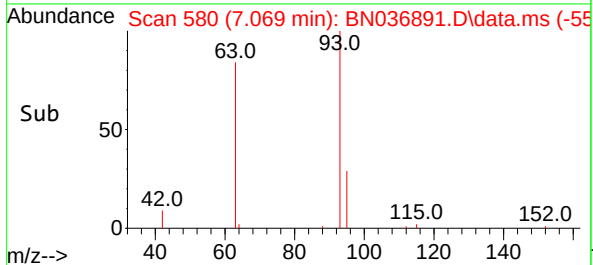
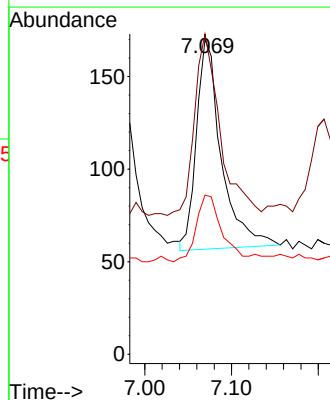
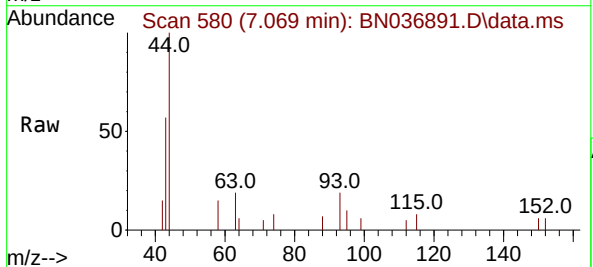
Instrument :
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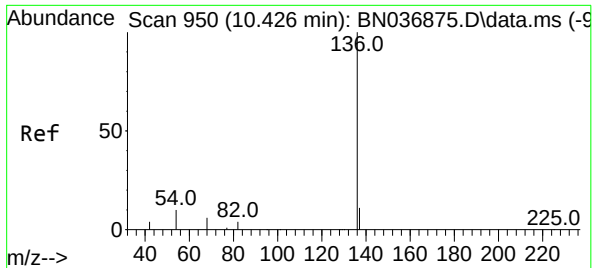
Tgt Ion: 99 Resp: 296
Ion Ratio Lower Upper
99 100
42 53.4 30.9 46.3#
71 43.9 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion: 93 Resp: 226
Ion Ratio Lower Upper
93 100
63 88.9 76.4 114.6
95 32.7 26.1 39.1

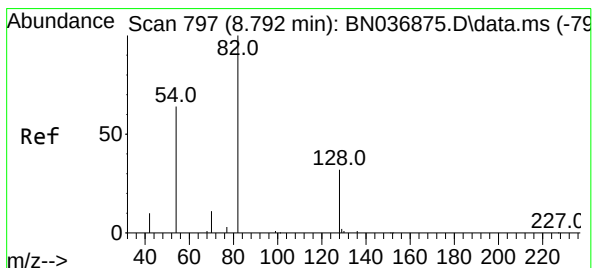
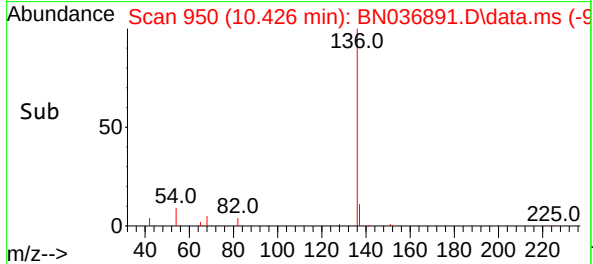
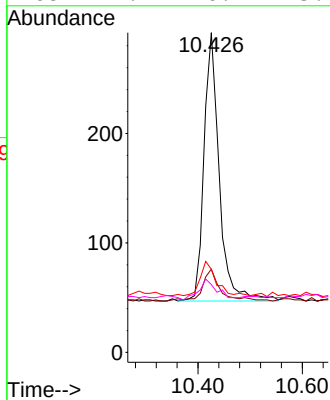
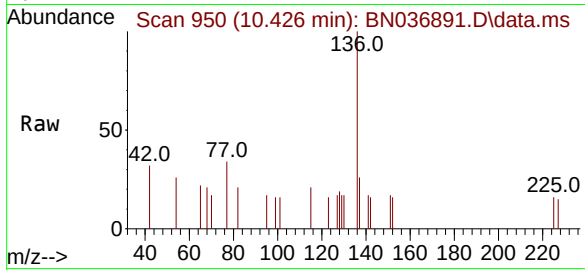




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

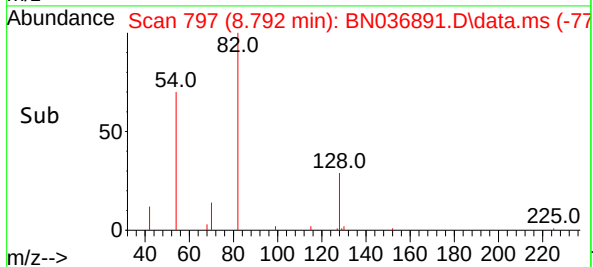
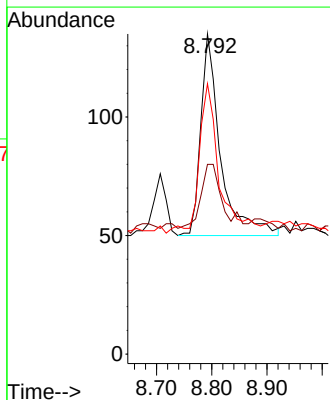
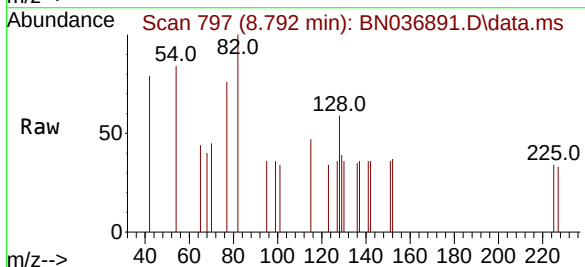
Instrument :
BNA_N
ClientSampleId :
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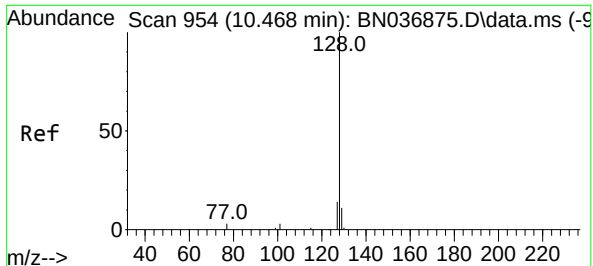
Tgt Ion:	136	Resp:	496
Ion	Ratio	Lower	Upper
136	100		
137	26.0	13.5	20.3#
54	26.0	12.8	19.2#
68	21.2	10.1	15.1#



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:	82	Resp:	211
Ion	Ratio	Lower	Upper
82	100		
128	59.3	35.5	53.3#
54	84.4	56.2	84.4#

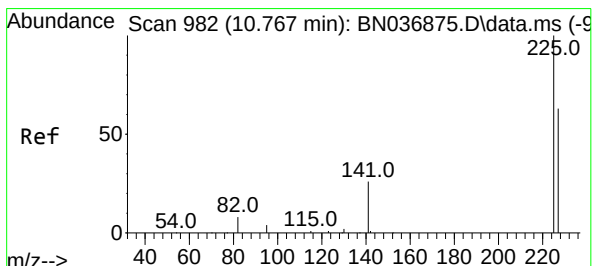
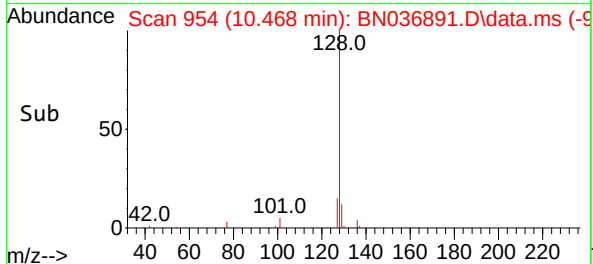
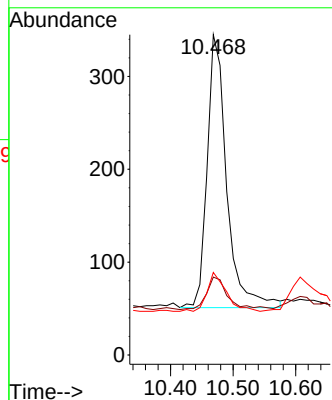
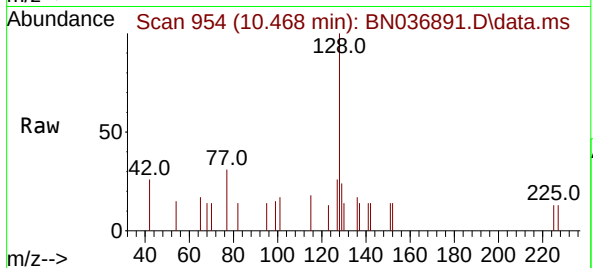




#9
Naphthalene
Concen: 0.446 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

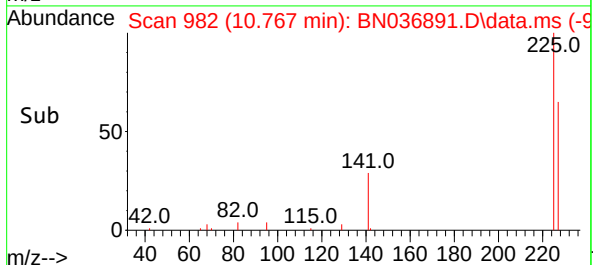
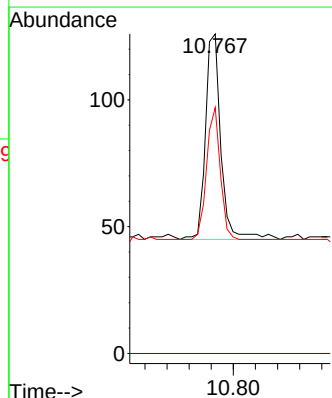
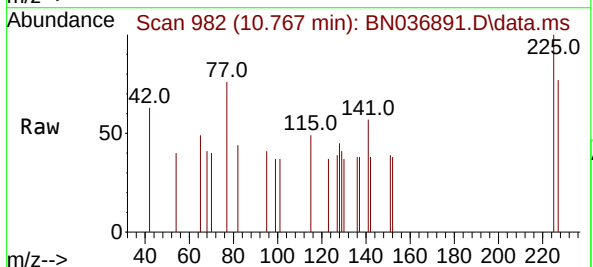
Instrument :
BNA_N
ClientSampleId :
PB167565BS

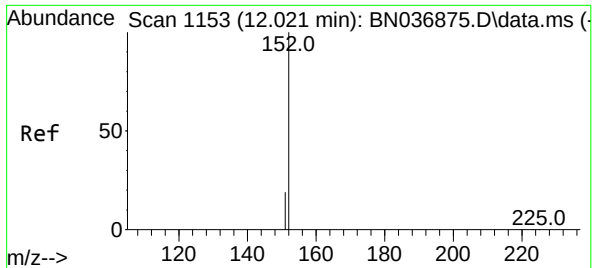
Tgt Ion:128 Resp: 637
Ion Ratio Lower Upper
128 100
129 24.3 12.9 19.3#
127 25.8 15.0 22.6#



#10
Hexachlorobutadiene
Concen: 0.488 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:225 Resp: 158
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 56.3 50.5 75.7

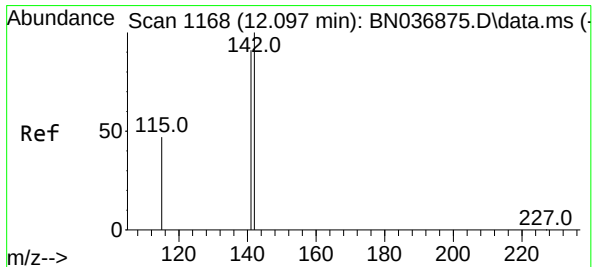
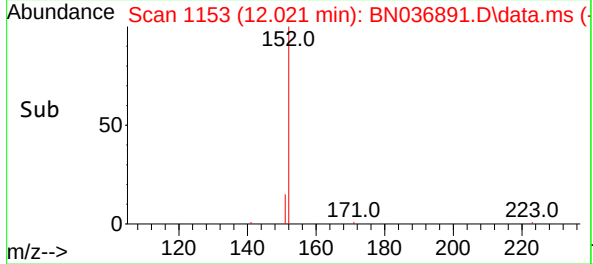
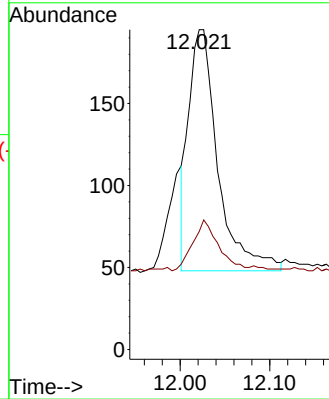
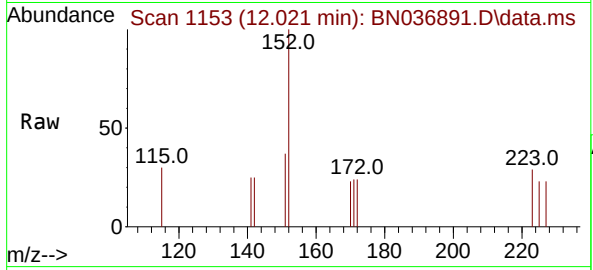




#11
2-Methylnaphthalene-d10
Concen: 0.463 ng m
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

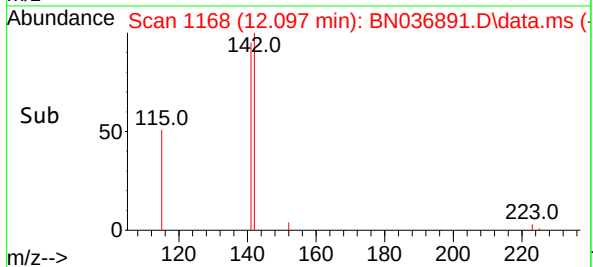
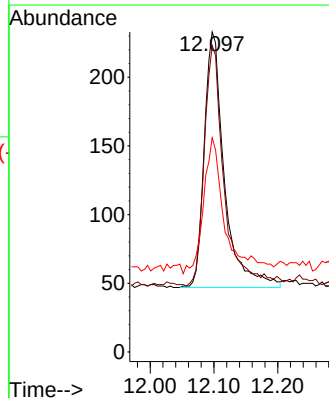
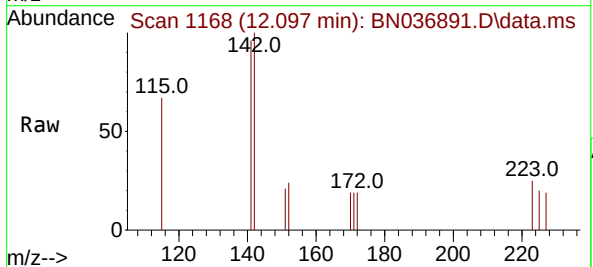
Instrument :
BNA_N
ClientSampleId :
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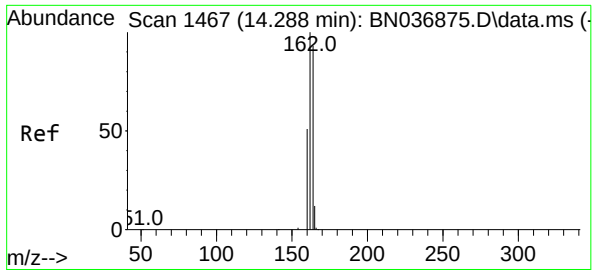
Tgt Ion:152 Resp: 334
Ion Ratio Lower Upper
152 100
151 18.6 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.443 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:142 Resp: 407
Ion Ratio Lower Upper
142 100
141 95.7 73.8 110.8
115 67.0 43.3 64.9#

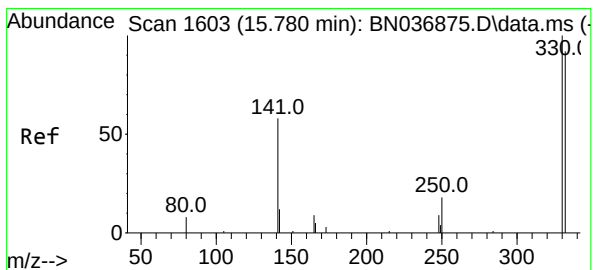
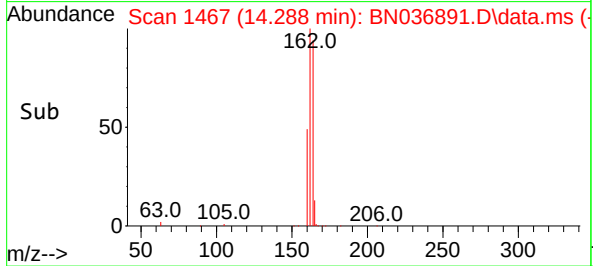
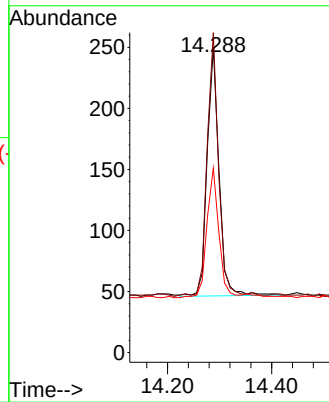
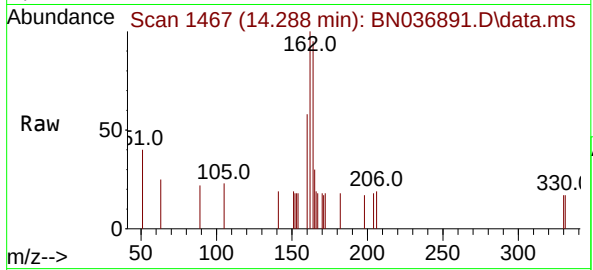




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

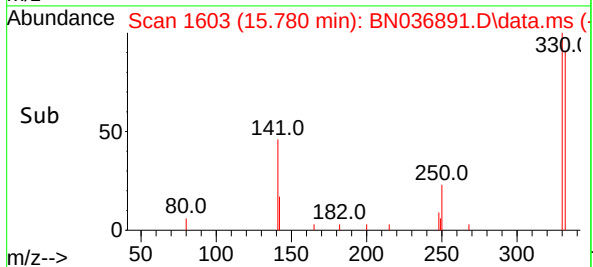
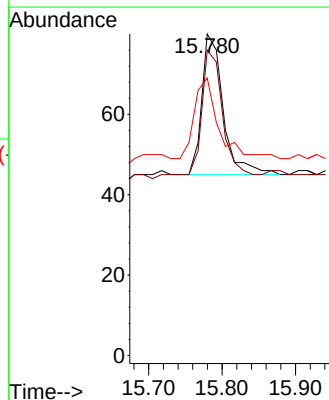
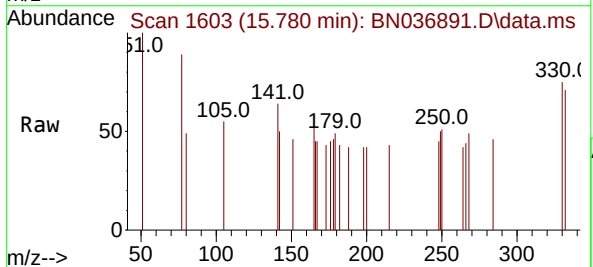
Instrument :
BNA_N
ClientSampleId :
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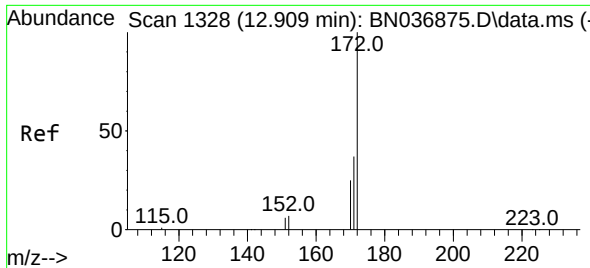
Tgt Ion:164 Resp: 321
Ion Ratio Lower Upper
164 100
162 104.8 85.7 128.5
160 60.4 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 0.459 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:330 Resp: 71
Ion Ratio Lower Upper
330 100
332 93.0 87.0 130.6
141 63.4 45.3 67.9

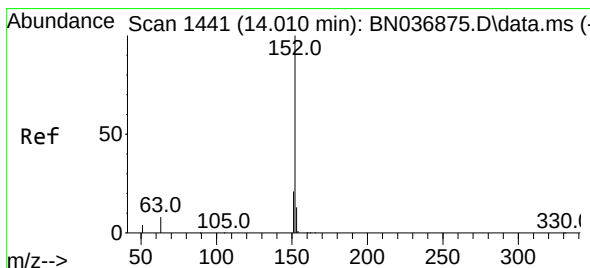
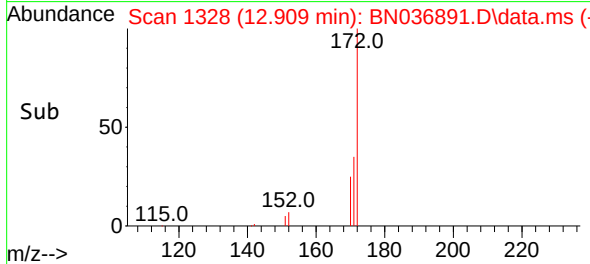
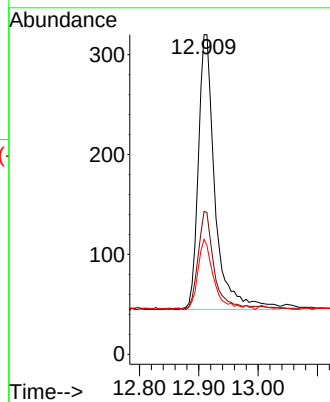
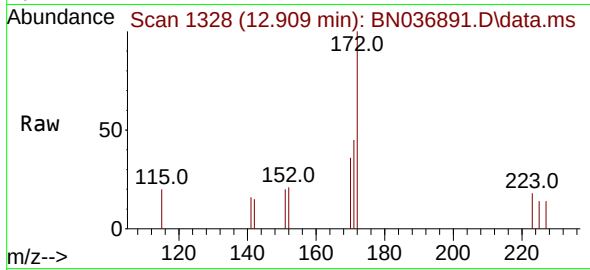




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.909 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

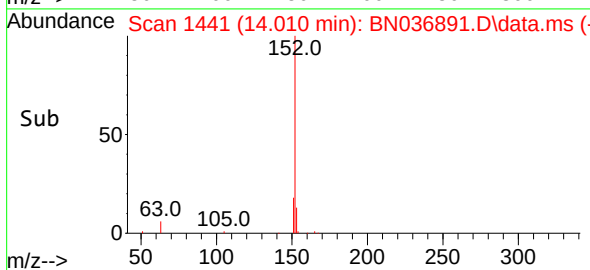
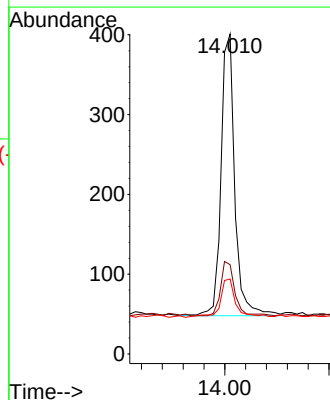
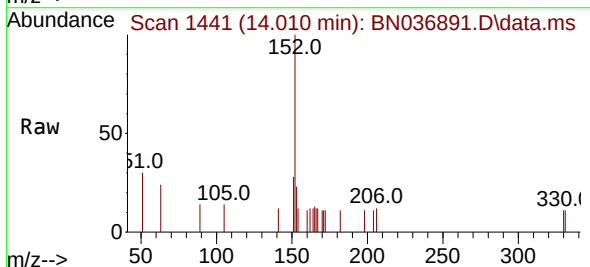
Instrument :
BNA_N
ClientSampleId :
PB167565BS

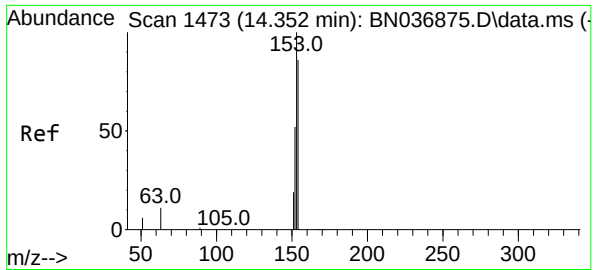
Tgt Ion	Ratio	Lower	Upper
172	100		
171	44.7	32.7	49.1
170	35.9	23.3	34.9



#16
Acenaphthylene
Concen: 0.434 ng
RT: 14.010 min Scan# 1441
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.4	24.6
153	15.3	10.3	15.5

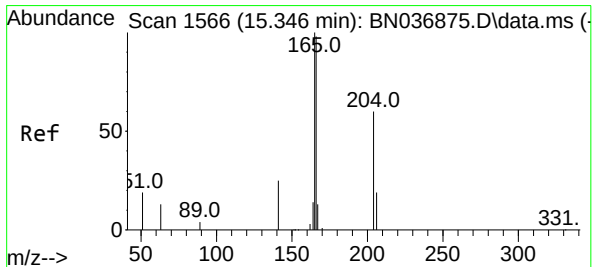
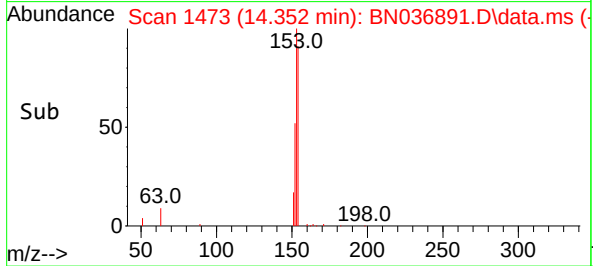
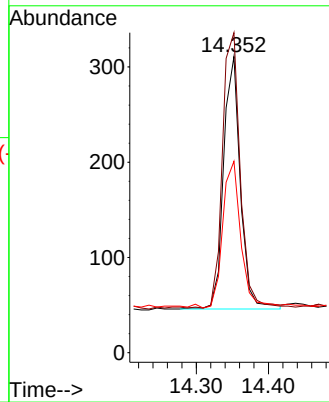
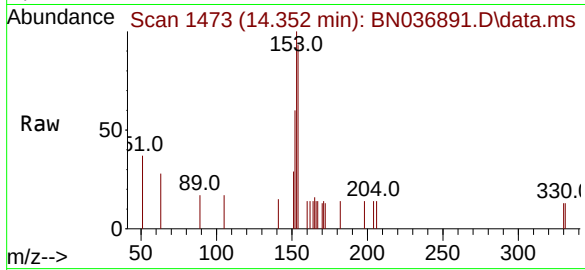




#17
Acenaphthene
Concen: 0.440 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

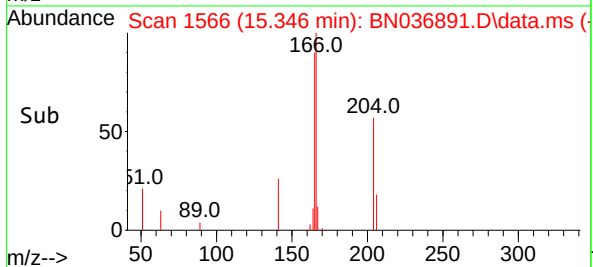
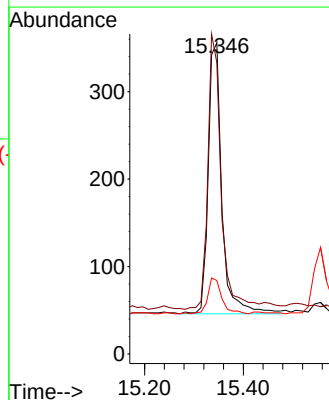
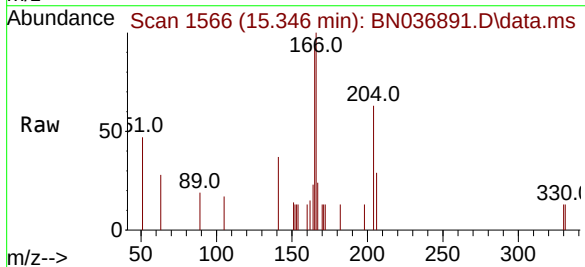
Instrument :
BNA_N
ClientSampleId :
PB167565BS

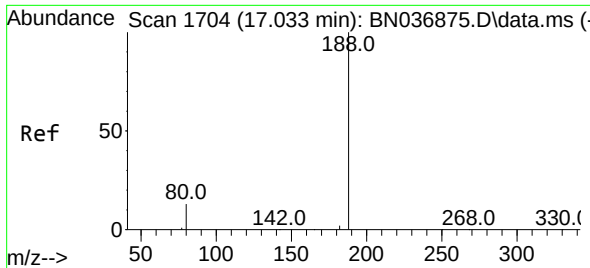
Tgt Ion	154	Resp	427
Ion Ratio	Lower	Upper	
154	100		
153	115.2	97.8	146.6
152	64.6	52.7	79.1



#18
Fluorene
Concen: 0.444 ng
RT: 15.346 min Scan# 1566
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion	166	Resp	595
Ion Ratio	Lower	Upper	
166	100		
165	98.0	83.2	124.8
167	13.4	11.1	16.7

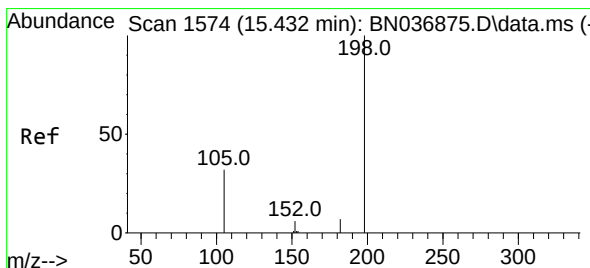
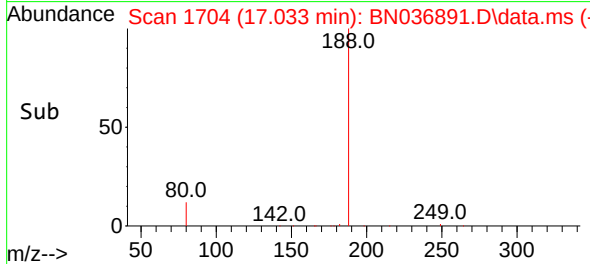
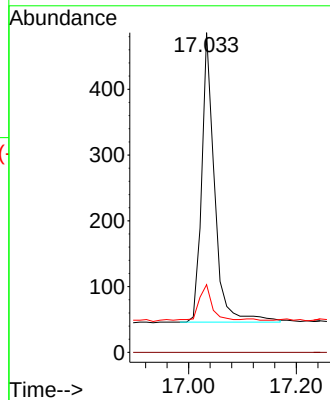
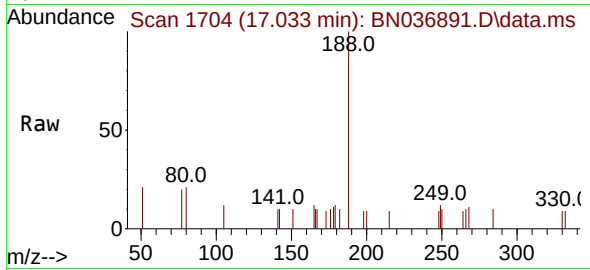




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

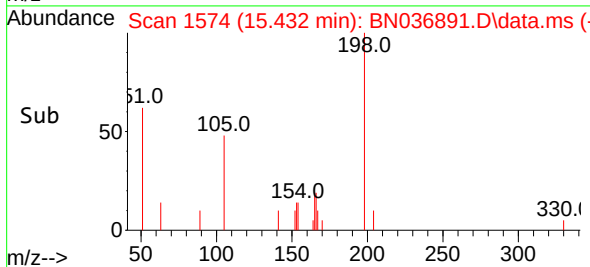
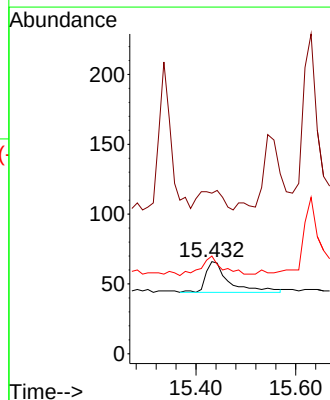
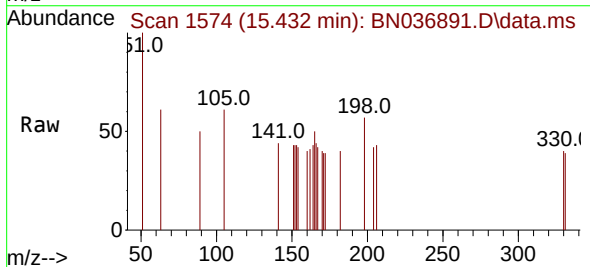
Instrument :
BNA_N
ClientSampleId :
PB167565BS

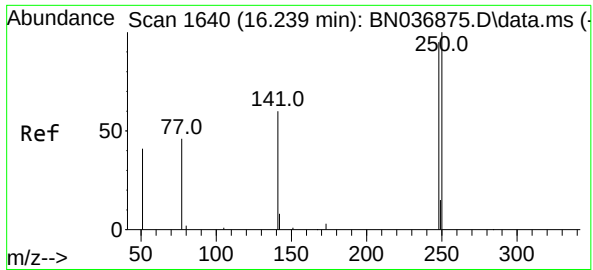
Tgt Ion:188 Resp: 731
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 21.2 13.9 20.9#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.427 ng
RT: 15.432 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:198 Resp: 74
Ion Ratio Lower Upper
198 100
51 174.2 107.6 161.4#
105 106.1 55.2 82.8#

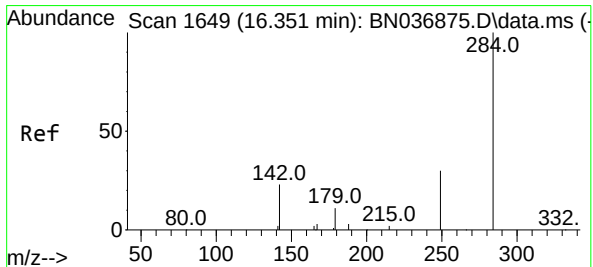
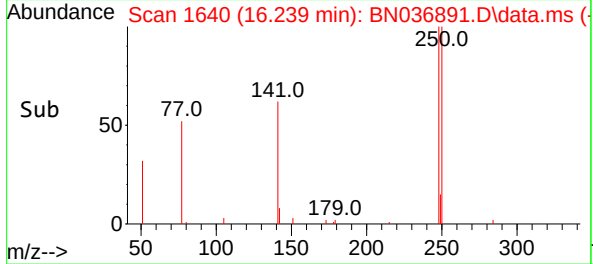
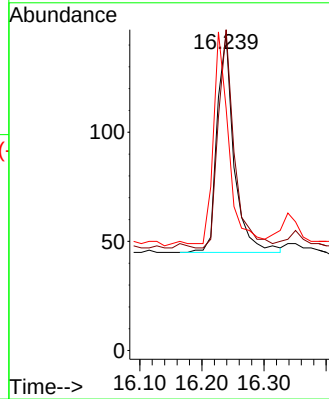
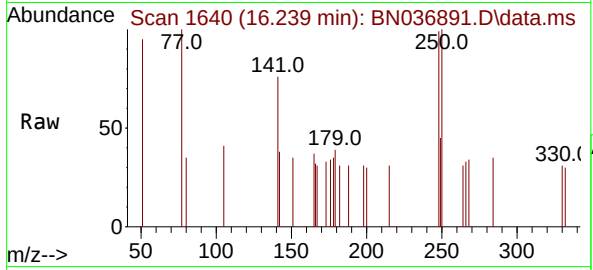




#21
4-Bromophenyl-phenylether
Concen: 0.429 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

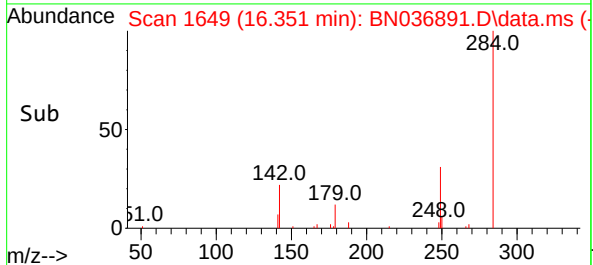
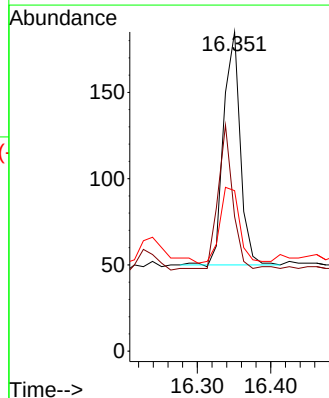
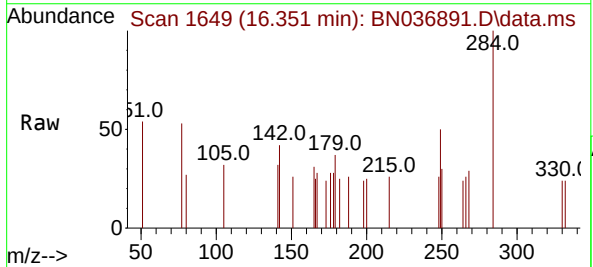
Instrument :
BNA_N
ClientSampleId :
PB167565BS

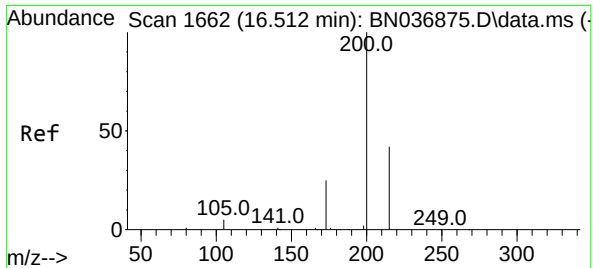
Tgt Ion:	248	Resp:	188
Ion	Ratio	Lower	Upper
248	100		
250	101.4	83.5	125.3
141	76.6	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:	284	Resp:	212
Ion	Ratio	Lower	Upper
284	100		
142	53.8	37.7	56.5
249	38.7	29.0	43.6

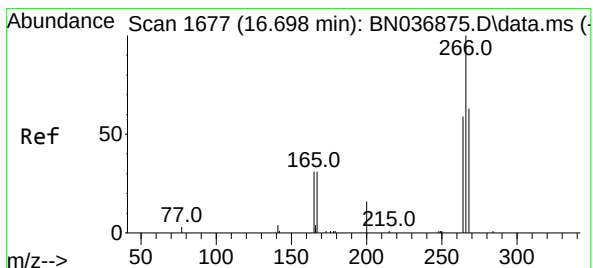
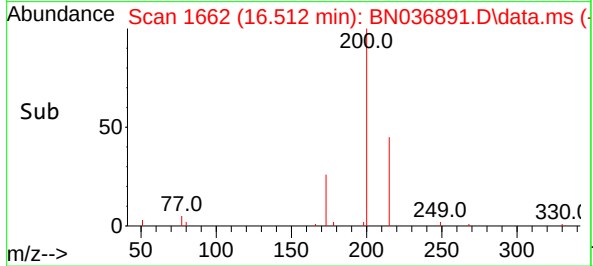
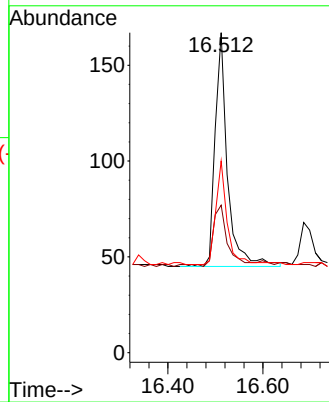
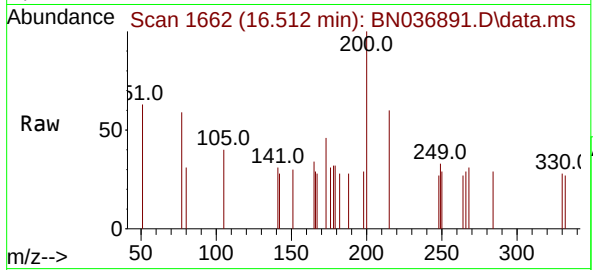




#23
Atrazine
Concen: 0.516 ng
RT: 16.512 min Scan# 1662
Delta R.T. -0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

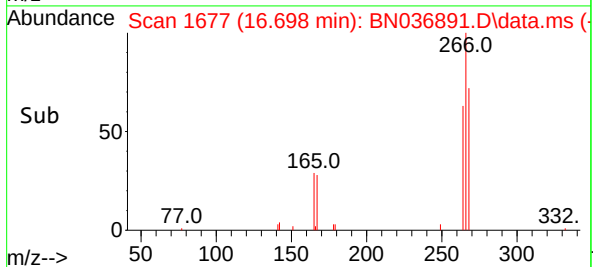
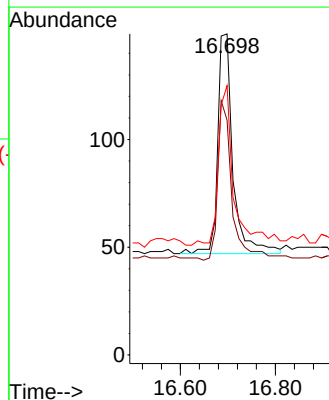
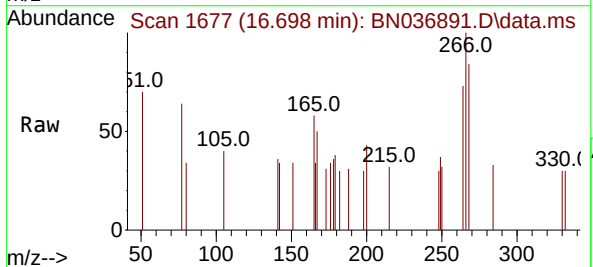
Instrument :
BNA_N
ClientSampleId :
PB167565BS

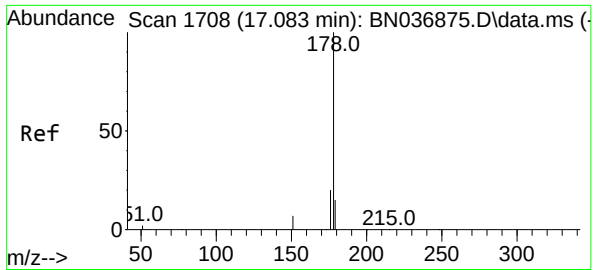
Tgt Ion:200 Resp: 221
Ion Ratio Lower Upper
200 100
173 46.1 28.6 43.0#
215 59.9 40.5 60.7



#24
Pentachlorophenol
Concen: 0.832 ng
RT: 16.698 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:266 Resp: 226
Ion Ratio Lower Upper
266 100
264 69.5 44.6 66.8#
268 74.8 51.8 77.6

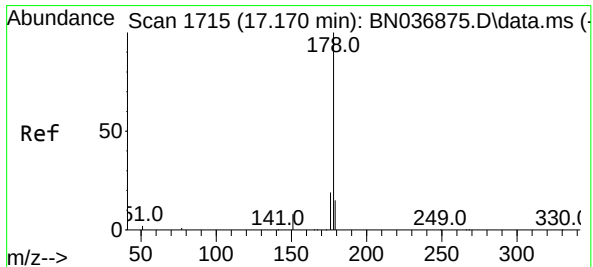
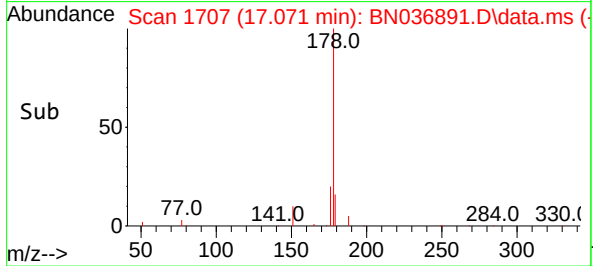
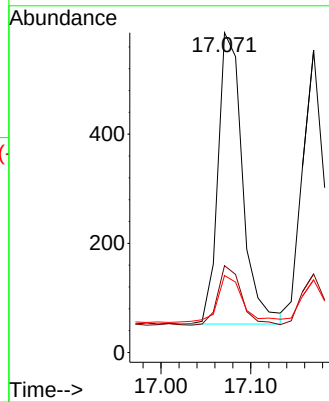
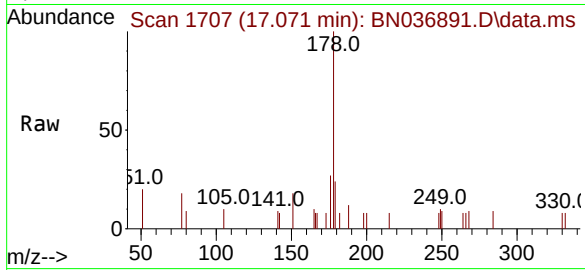




#25
Phenanthrene
Concen: 0.464 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

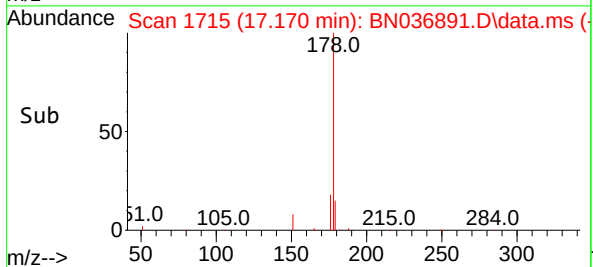
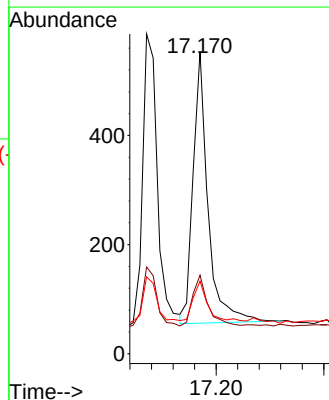
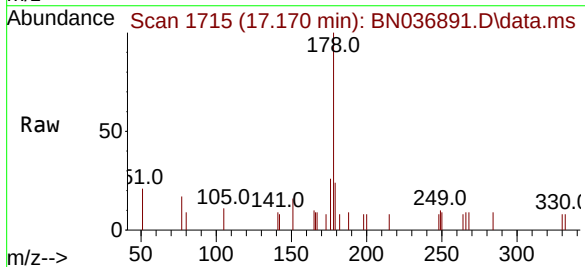
Instrument :
BNA_N
ClientSampleId :
PB167565BS

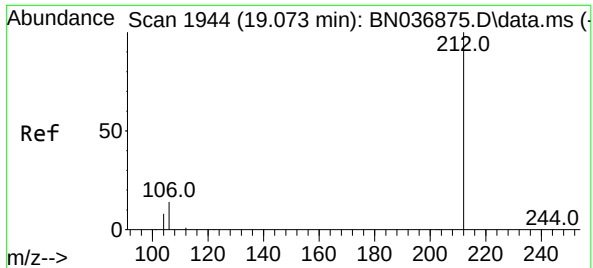
Tgt Ion:	178	Resp:	1018
Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.6	25.0
179	17.7	12.8	19.2



#26
Anthracene
Concen: 0.488 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:	178	Resp:	954
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.8	23.6
179	17.2	12.6	18.8

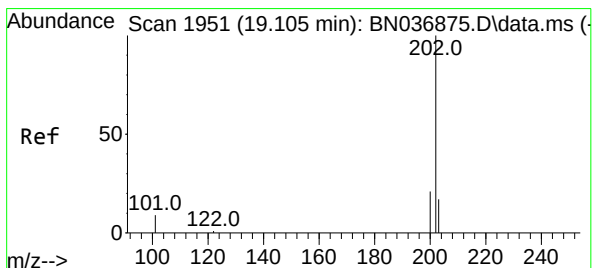
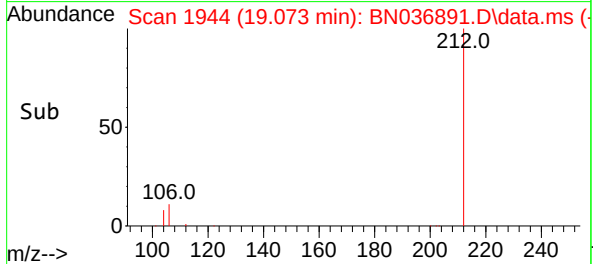
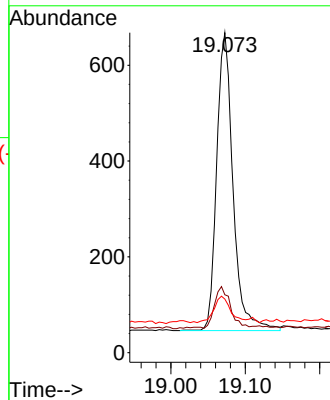
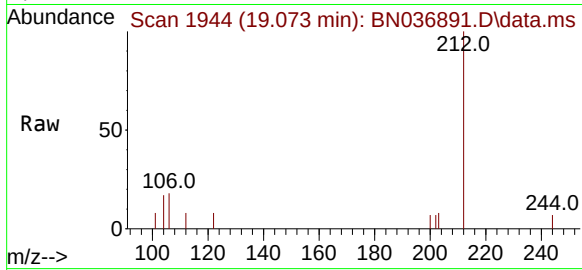




#27
Fluoranthene-d10
Concen: 0.461 ng
RT: 19.073 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

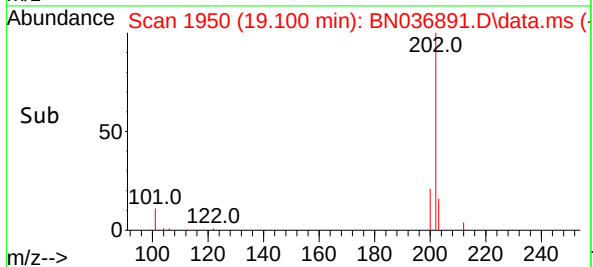
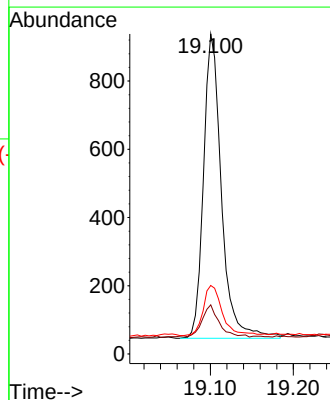
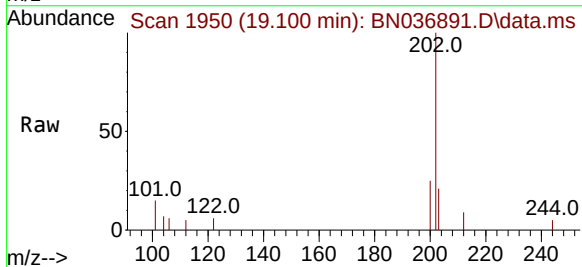
Instrument :
BNA_N
ClientSampleId :
PB167565BS

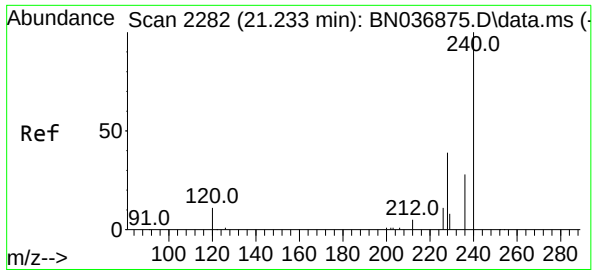
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.6	11.2	16.8
104	9.1	7.5	11.3



#28
Fluoranthene
Concen: 0.487 ng
RT: 19.100 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.0	8.5	12.7
203	17.5	13.8	20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

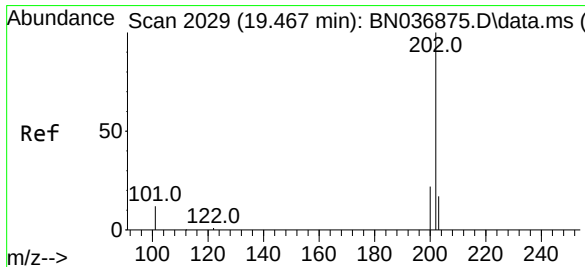
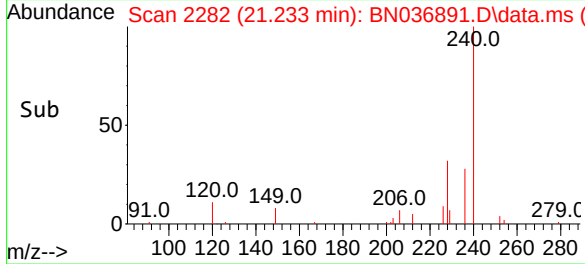
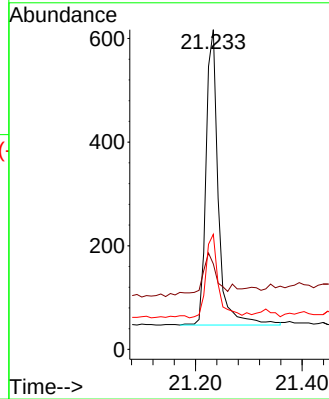
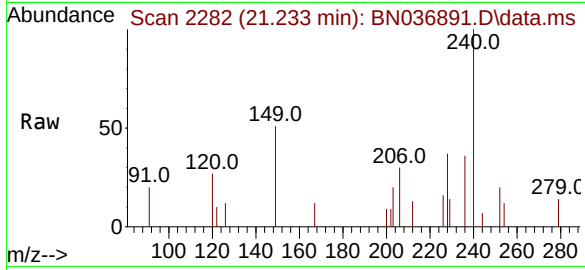
Tgt Ion:240 Resp: 908

Ion Ratio Lower Upper

240 100

120 26.7 15.8 23.6#

236 36.0 25.8 38.8



#30

Pyrene

Concen: 0.418 ng

RT: 19.463 min Scan# 2028

Delta R.T. -0.005 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

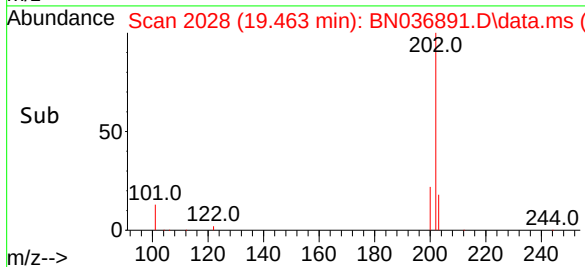
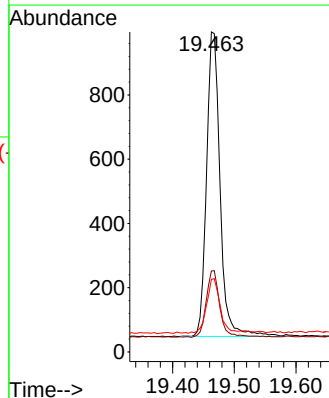
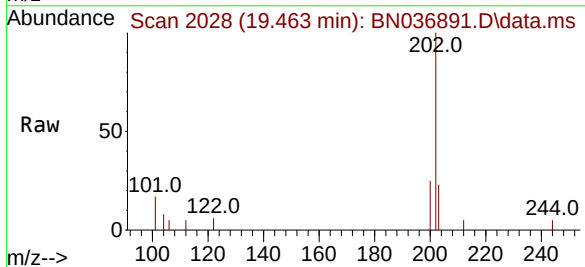
Tgt Ion:202 Resp: 1436

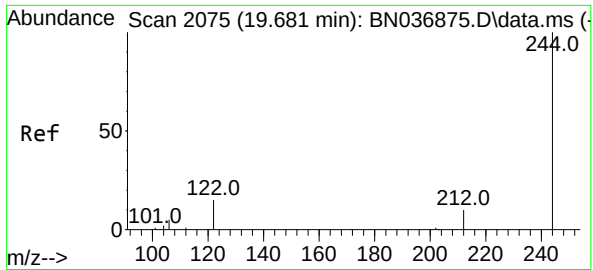
Ion Ratio Lower Upper

202 100

200 22.5 17.1 25.7

203 17.4 14.5 21.7

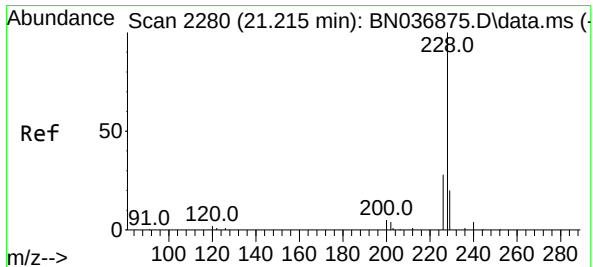
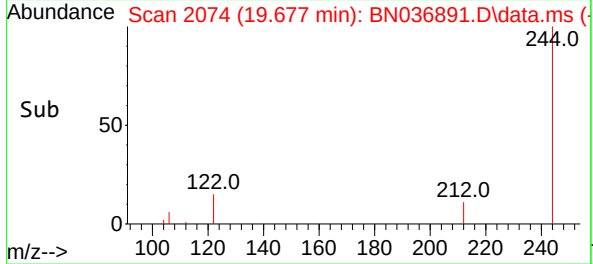
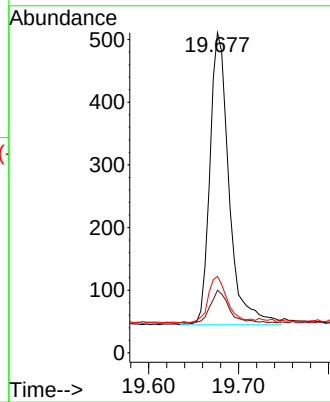
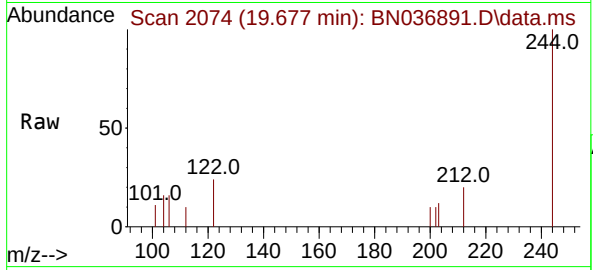




#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

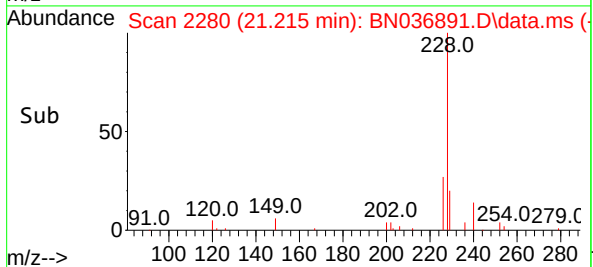
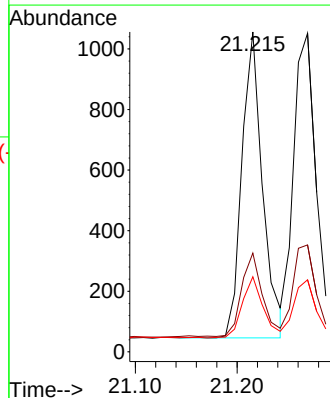
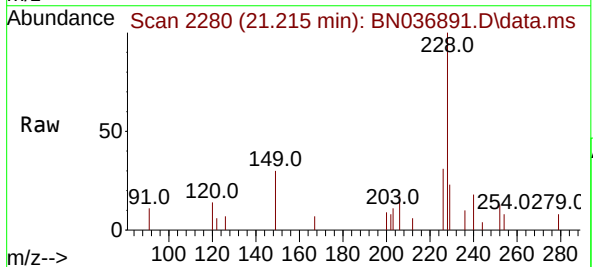
Instrument :
BNA_N
ClientSampleId :
PB167565BS

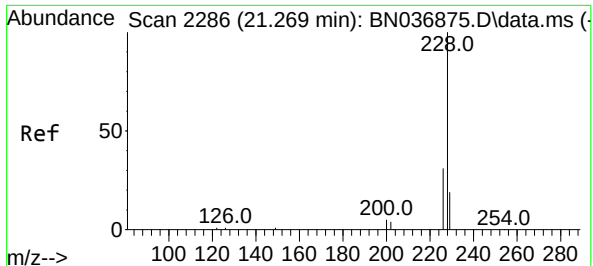
Tgt Ion:244 Resp: 690
Ion Ratio Lower Upper
244 100
212 19.6 11.6 17.4#
122 23.9 14.9 22.3#



#32
Benzo(a)anthracene
Concen: 0.445 ng
RT: 21.215 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:228 Resp: 1428
Ion Ratio Lower Upper
228 100
226 30.9 24.5 36.7
229 23.5 17.7 26.5





#33

Chrysene

Concen: 0.473 ng

RT: 21.269 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

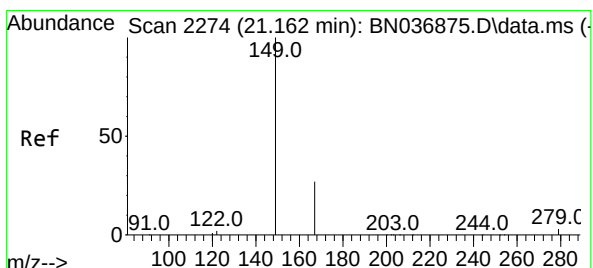
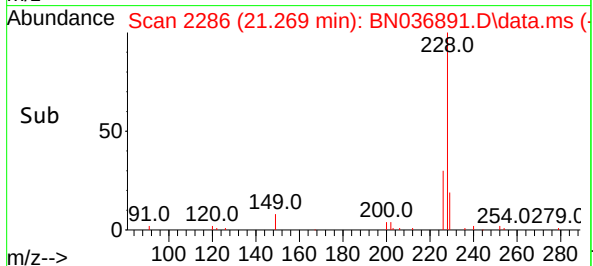
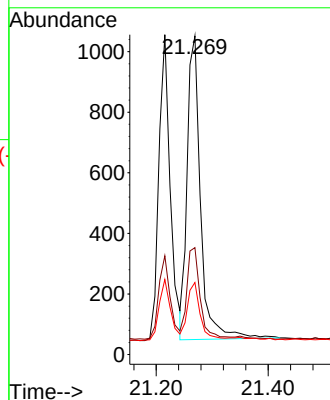
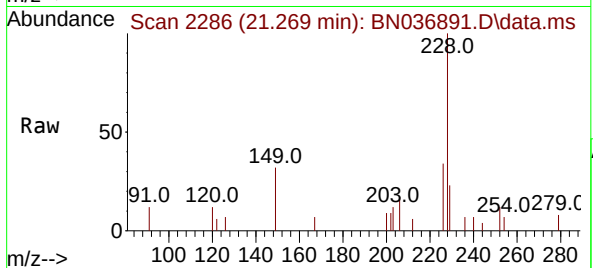
Tgt Ion:228 Resp: 1672

Ion Ratio Lower Upper

228 100

226 33.6 26.1 39.1

229 22.6 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.481 ng

RT: 21.153 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

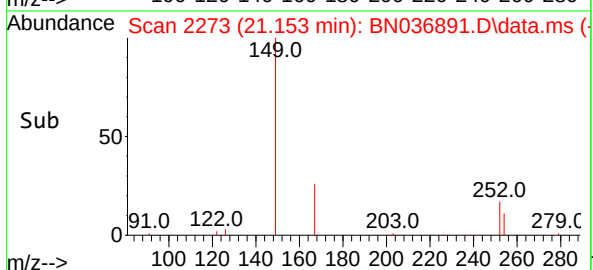
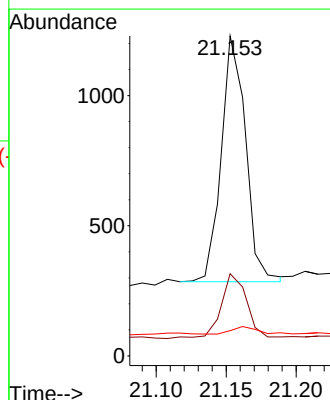
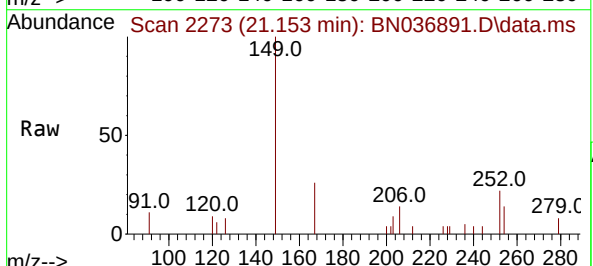
Tgt Ion:149 Resp: 1144

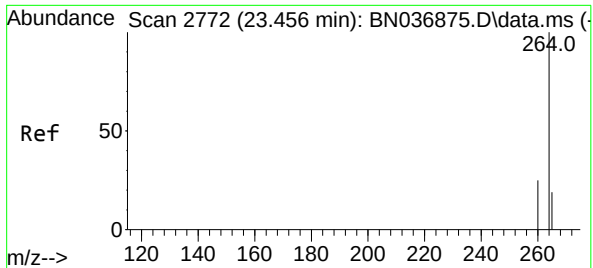
Ion Ratio Lower Upper

149 100

167 28.0 21.0 31.4

279 3.2 3.6 5.4#

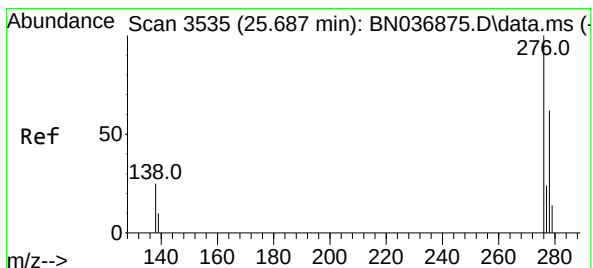
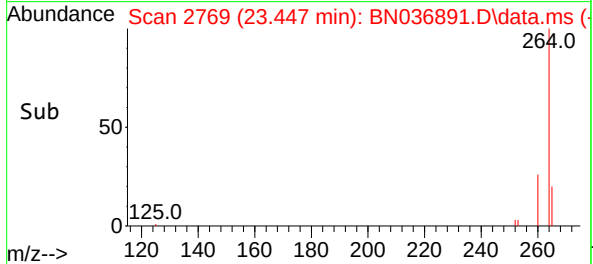
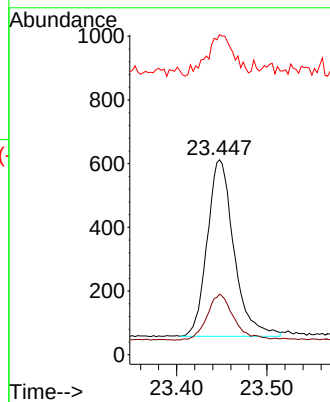
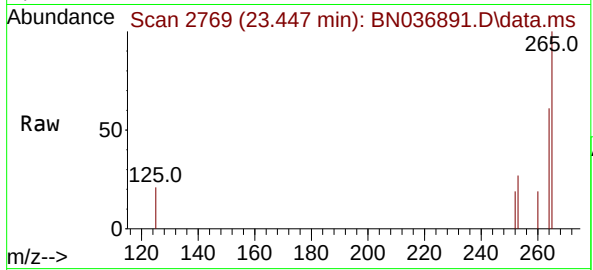




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

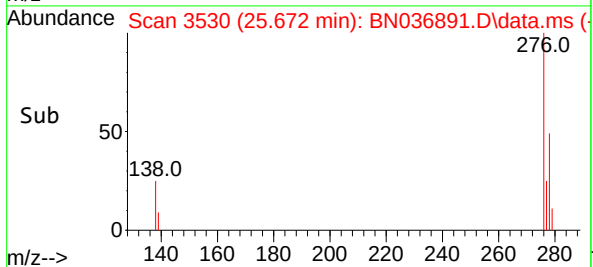
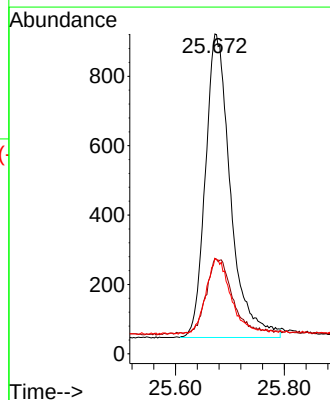
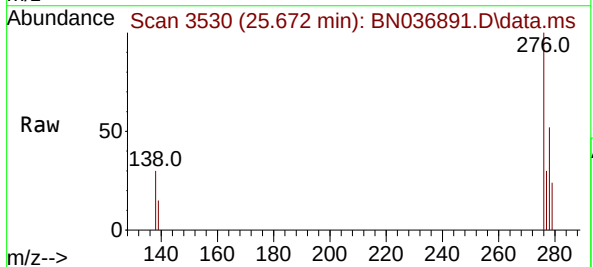
Instrument :
BNA_N
ClientSampleId :
PB167565BS

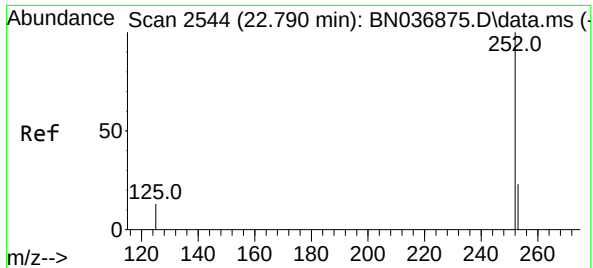
Tgt Ion:264 Resp: 1138
Ion Ratio Lower Upper
264 100
260 31.0 22.9 34.3
265 164.2 88.6 132.8#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.516 ng
RT: 25.672 min Scan# 3530
Delta R.T. -0.015 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:276 Resp: 2802
Ion Ratio Lower Upper
276 100
138 25.5 21.0 31.6
277 24.7 19.3 28.9

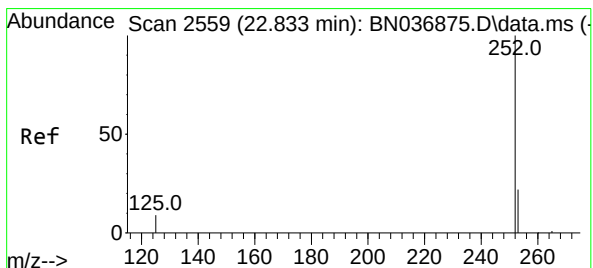
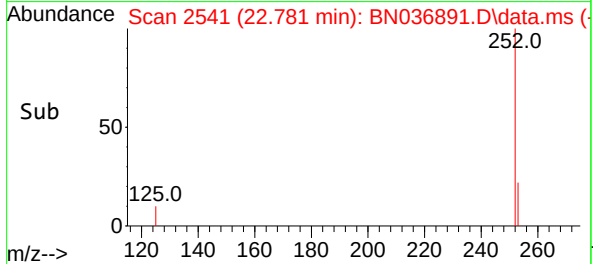
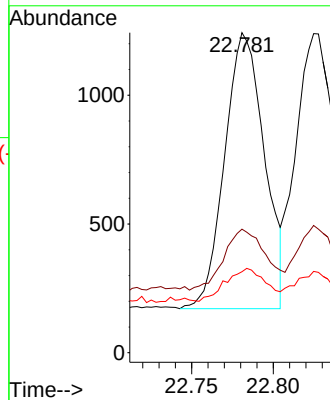
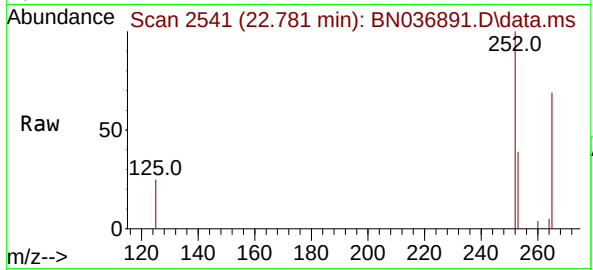




#37
Benzo(b)fluoranthene
Concen: 0.449 ng
RT: 22.781 min Scan# 2541
Delta R.T. -0.009 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

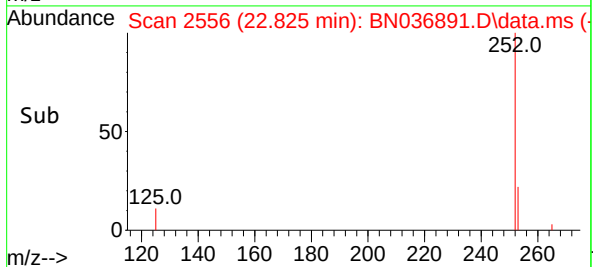
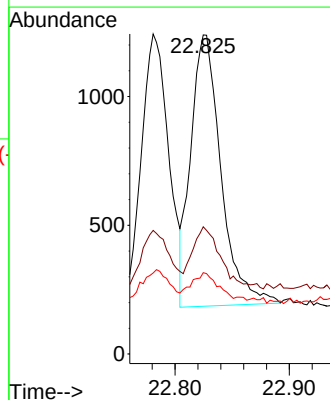
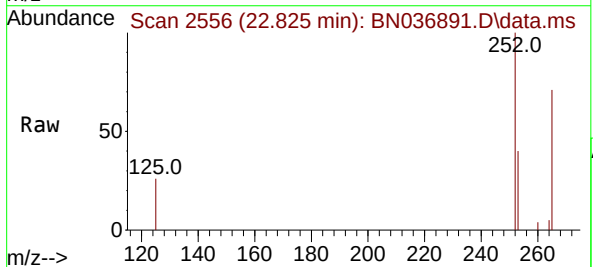
Instrument :
BNA_N
ClientSampleId :
PB167565BS

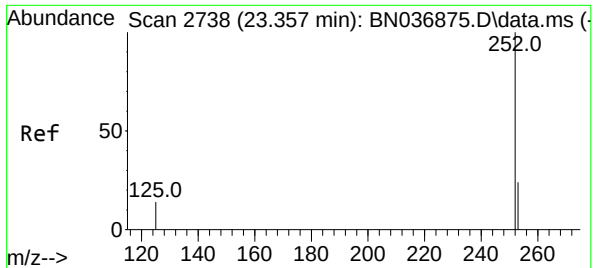
Tgt Ion:	252	Resp:	1814
Ion Ratio	Lower	Upper	
252	100		
253	38.6	27.0	40.6
125	25.3	17.7	26.5



#38
Benzo(k)fluoranthene
Concen: 0.476 ng
RT: 22.825 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:	252	Resp:	1937
Ion Ratio	Lower	Upper	
252	100		
253	39.9	26.7	40.1
125	25.5	16.9	25.3





#39

Benzo(a)pyrene

Concen: 0.495 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

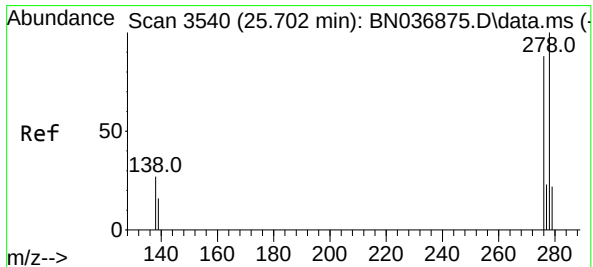
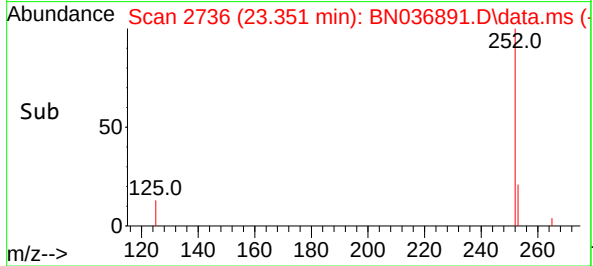
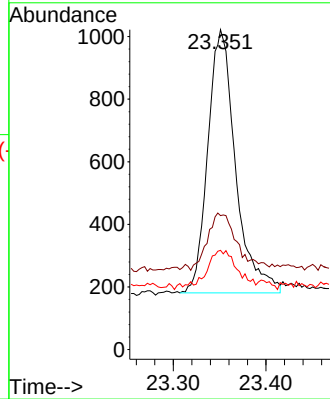
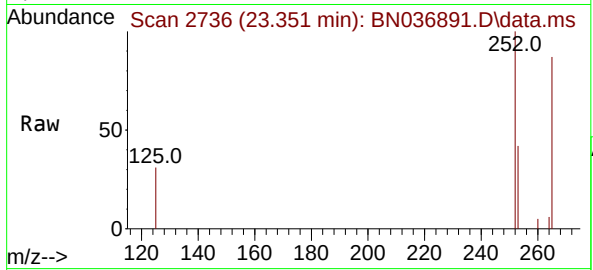
Tgt Ion:252 Resp: 1752

Ion Ratio Lower Upper

252 100

253 41.9 31.5 47.3

125 31.0 22.6 34.0



#40

Dibenzo(a,h)anthracene

Concen: 0.510 ng

RT: 25.690 min Scan# 3536

Delta R.T. -0.012 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

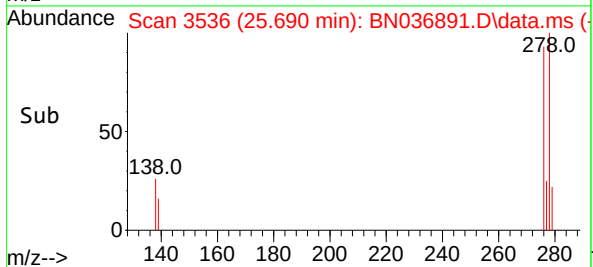
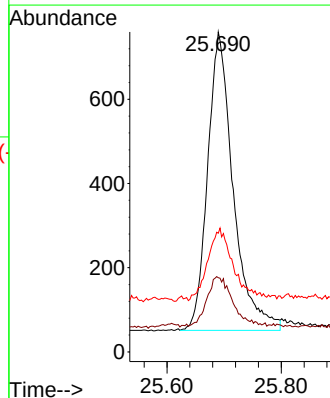
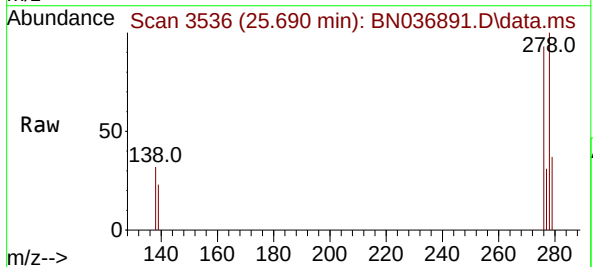
Tgt Ion:278 Resp: 2199

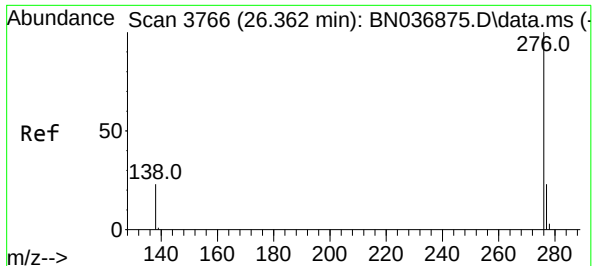
Ion Ratio Lower Upper

278 100

139 23.2 17.6 26.4

279 37.1 26.7 40.1





#41

Benzo(g,h,i)perylene

Concen: 0.478 ng

RT: 26.354 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN036891.D

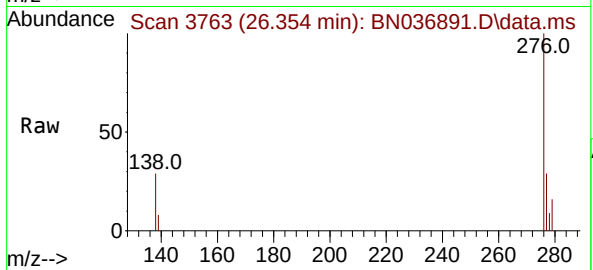
Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS



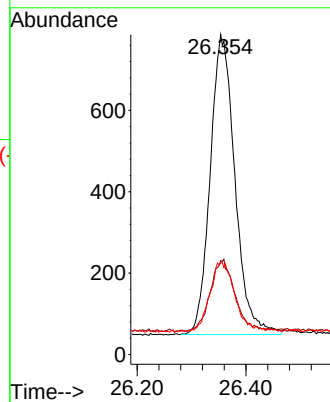
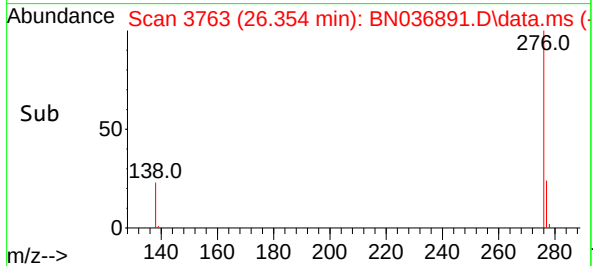
Tgt Ion:276 Resp: 2329

Ion Ratio Lower Upper

276 100

277 29.4 21.8 32.8

138 28.6 21.6 32.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	PB167565BSD		SDG No.:	Q1773
Lab Sample ID:	PB167565BSD		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
BN036892.D	1	04/11/25 09:20	04/11/25 23:33	PB167565

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.44		30 - 150		111%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.45	*	53 - 106		113%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		108%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	383		7.64			
1146-65-2	Naphthalene-d8	935		10.426			
15067-26-2	Acenaphthene-d10	512		14.288			
1517-22-2	Phenanthrene-d10	1260		17.033			
1719-03-5	Chrysene-d12	1400		21.224			
1520-96-3	Perylene-d12	1610		23.445			

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\BN041125\
 Data File : BN036892.D
 Acq On : 11 Apr 2025 23:33
 Operator : RC/JU
 Sample : PB167565BSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD

Quant Time: Apr 12 00:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

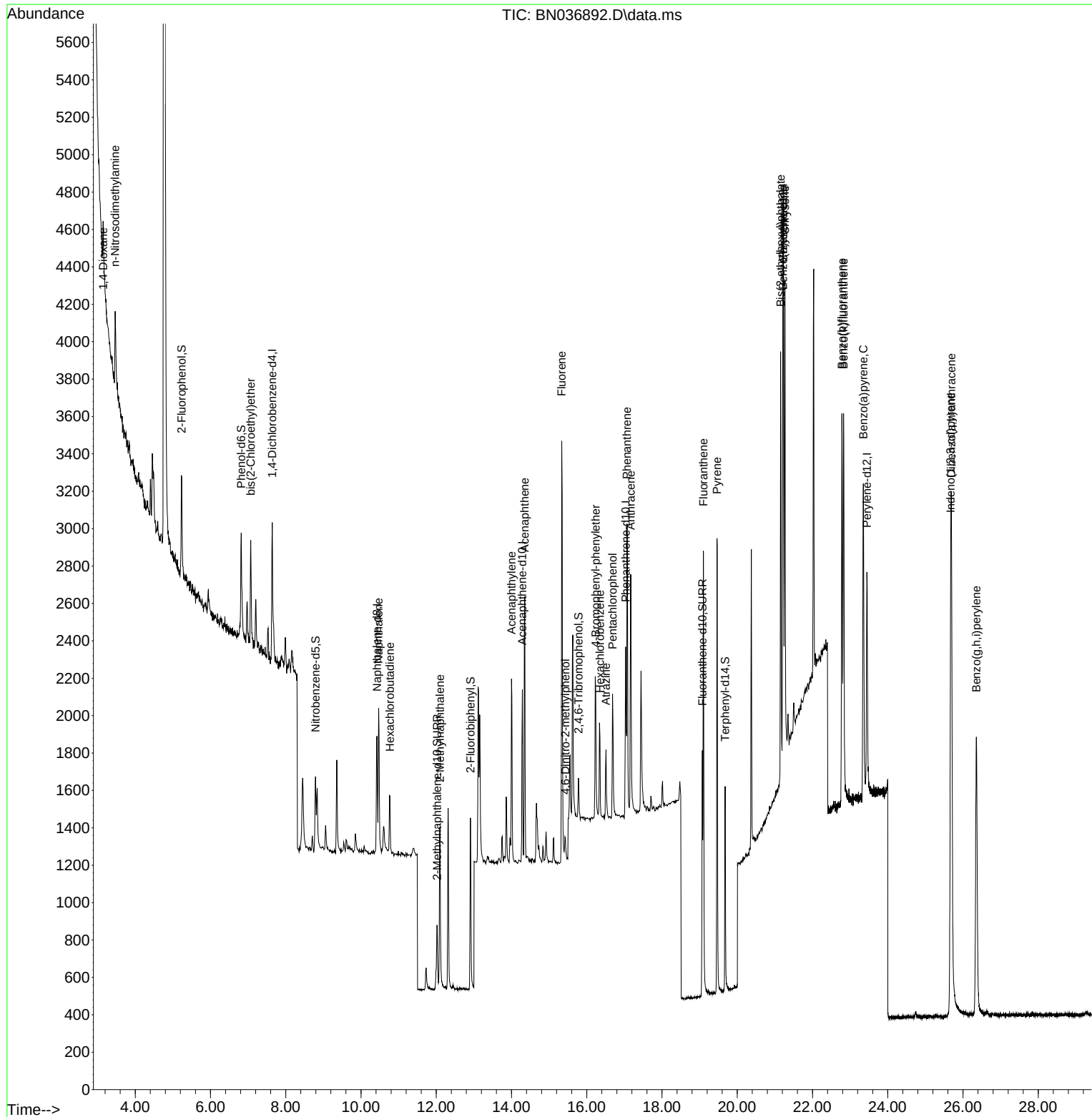
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	383	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	935	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	512	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	1263	0.400	ng	0.00
29) Chrysene-d12	21.224	240	1400	0.400	ng	# 0.00
35) Perylene-d12	23.445	264	1606	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	444	0.493	ng	0.00
5) Phenol-d6	6.817	99	498	0.432	ng	0.00
8) Nitrobenzene-d5	8.792	82	384	0.370	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	601m	0.442	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	124	0.502	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	1109	0.451	ng	0.00
27) Fluoranthene-d10	19.073	212	1577	0.443	ng	0.00
31) Terphenyl-d14	19.677	244	1153	0.434	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	180	0.405	ng	# 28
3) n-Nitrosodimethylamine	3.466	42	406	0.413	ng	# 96
6) bis(2-Chloroethyl)ether	7.069	93	418	0.370	ng	96
9) Naphthalene	10.468	128	1111	0.413	ng	95
10) Hexachlorobutadiene	10.767	225	262	0.429	ng	# 97
12) 2-Methylnaphthalene	12.097	142	721	0.416	ng	96
16) Acenaphthylene	13.999	152	1152	0.484	ng	98
17) Acenaphthene	14.352	154	731	0.472	ng	96
18) Fluorene	15.336	166	1033	0.484	ng	96
20) 4,6-Dinitro-2-methylph...	15.432	198	122	0.408	ng	97
21) 4-Bromophenyl-phenylether	16.239	248	327	0.432	ng	96
22) Hexachlorobenzene	16.351	284	372	0.416	ng	92
23) Atrazine	16.512	200	363	0.491	ng	94
24) Pentachlorophenol	16.686	266	355	0.757	ng	96
25) Phenanthrene	17.071	178	1707	0.451	ng	97
26) Anthracene	17.170	178	1603	0.475	ng	97
28) Fluoranthene	19.101	202	2222	0.466	ng	99
30) Pyrene	19.463	202	2339	0.442	ng	99
32) Benzo(a)anthracene	21.215	228	2255	0.456	ng	98
33) Chrysene	21.269	228	2535	0.465	ng	99
34) Bis(2-ethylhexyl)phtha...	21.153	149	1697	0.462	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.672	276	3700	0.483	ng	97
37) Benzo(b)fluoranthene	22.784	252	2667	0.468	ng	100
38) Benzo(k)fluoranthene	22.825	252	2840	0.494	ng	99
39) Benzo(a)pyrene	23.351	252	2534	0.507	ng	96
40) Dibenzo(a,h)anthracene	25.693	278	2949	0.484	ng	99
41) Benzo(g,h,i)perylene	26.357	276	3007	0.437	ng	99

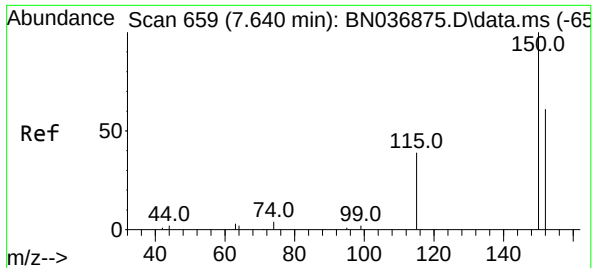
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036892.D
Acq On : 11 Apr 2025 23:33
Operator : RC/JU
Sample : PB167565BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167565BSD

Quant Time: Apr 12 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

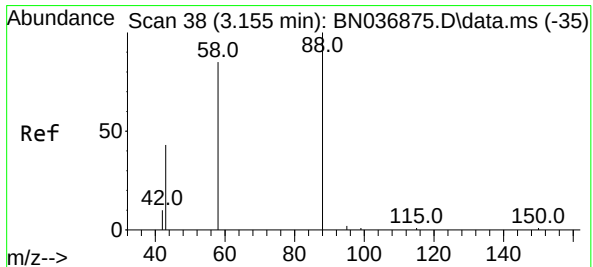
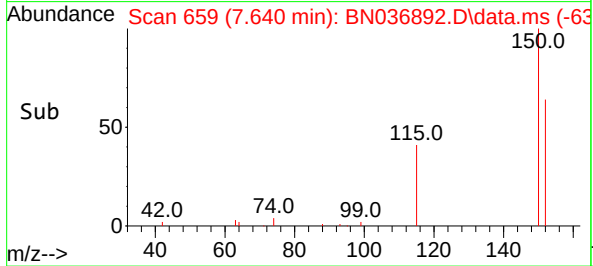
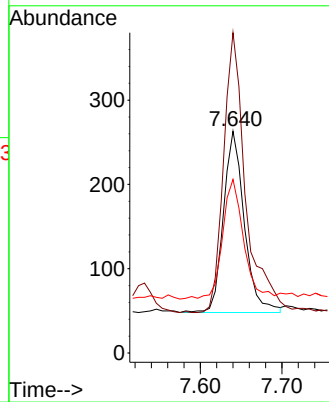
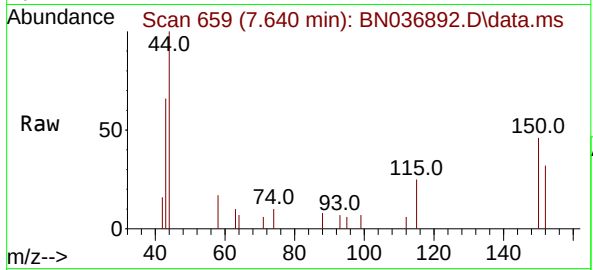




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

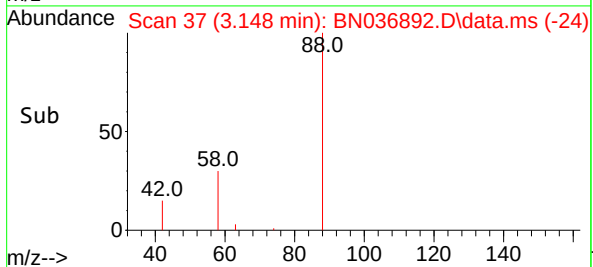
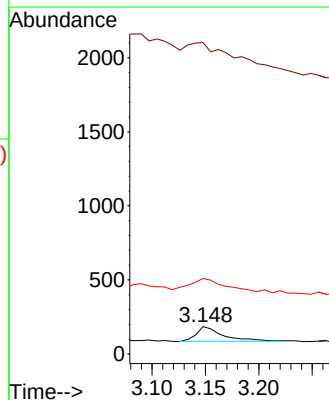
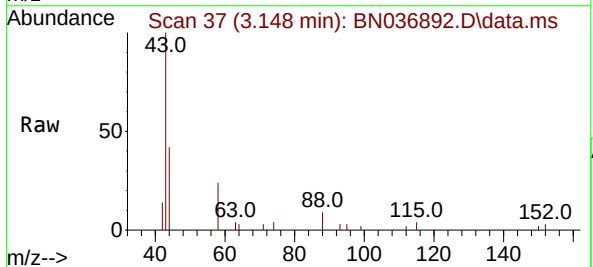
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

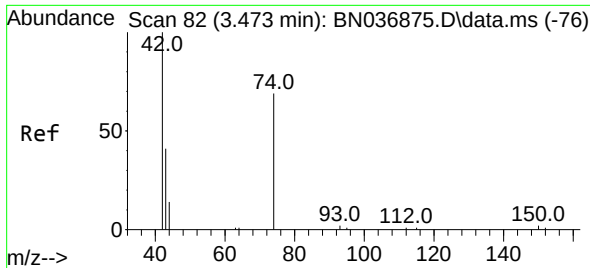
Tgt Ion:152 Resp: 383
Ion Ratio Lower Upper
152 100
150 144.5 123.0 184.6
115 78.3 60.1 90.1



#2
1,4-Dioxane
Concen: 0.405 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion: 88 Resp: 180
Ion Ratio Lower Upper
88 100
43 0.0 39.2 58.8#
58 142.8 63.5 95.3#

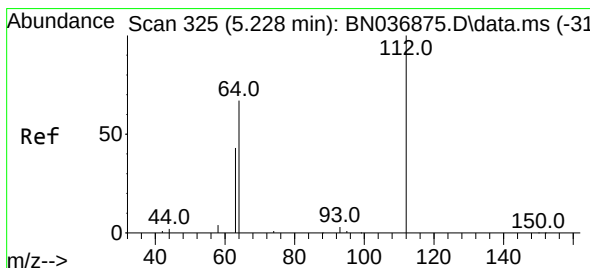
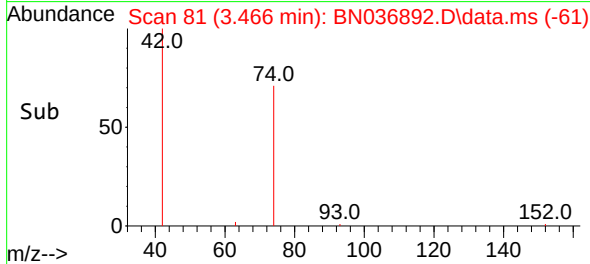
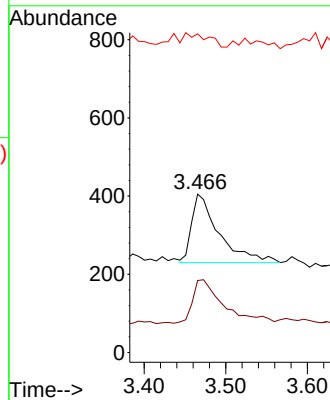
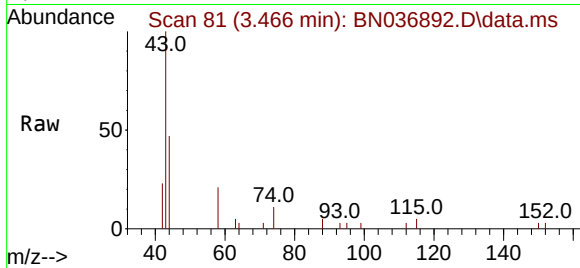




#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.466 min Scan# 81
Delta R.T. -0.007 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

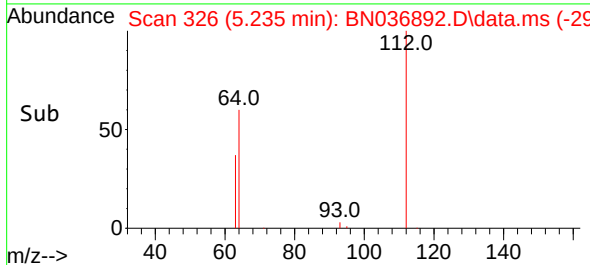
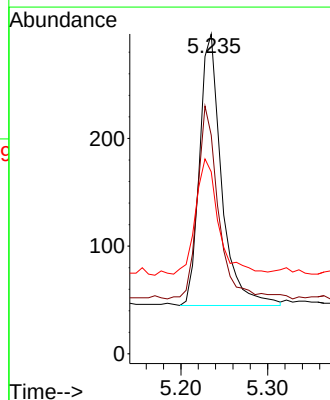
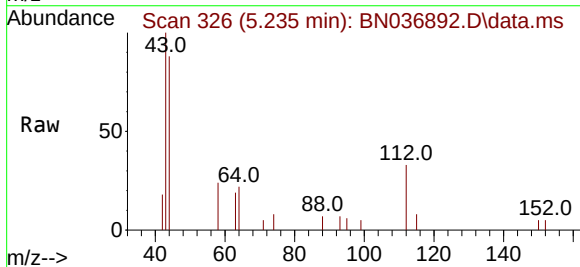
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

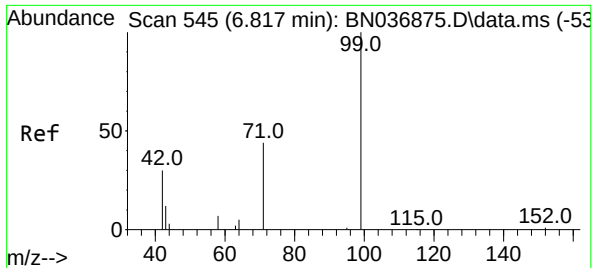
Tgt Ion: 42 Resp: 406
Ion Ratio Lower Upper
42 100
74 71.4 54.6 81.8
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.493 ng
RT: 5.235 min Scan# 326
Delta R.T. 0.007 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion: 112 Resp: 444
Ion Ratio Lower Upper
112 100
64 68.5 54.0 81.0
63 46.2 35.1 52.7

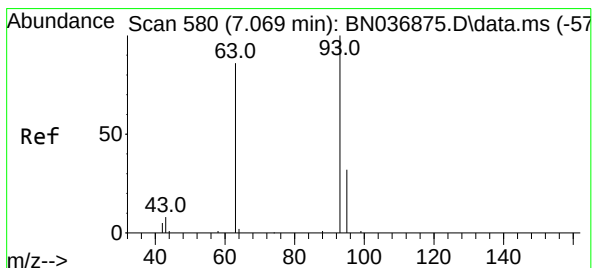
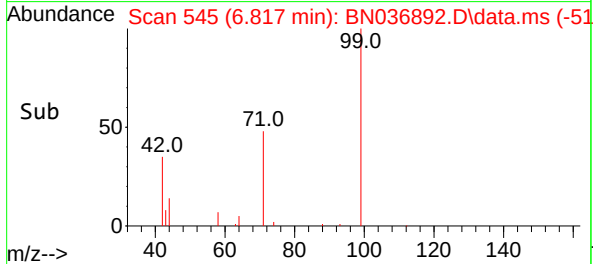
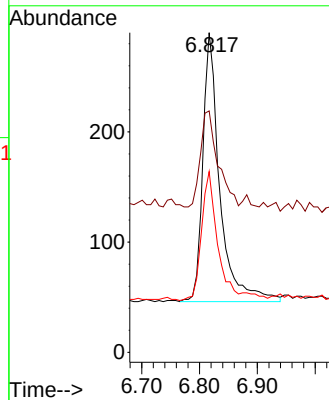
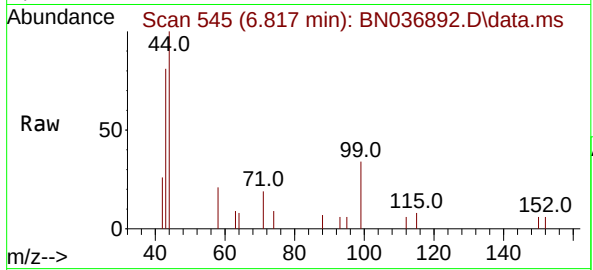




#5
Phenol-d6
Concen: 0.432 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

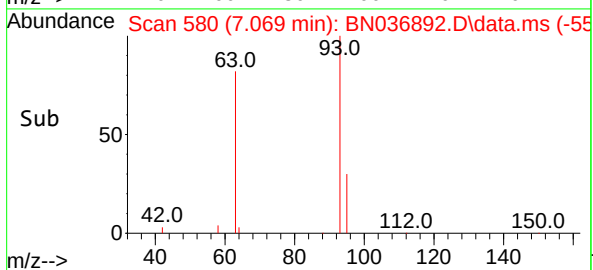
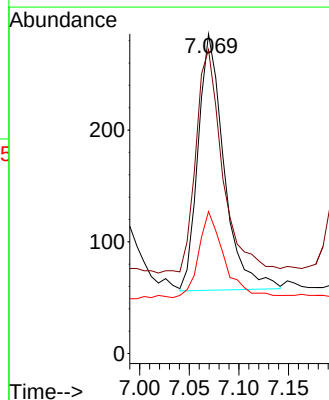
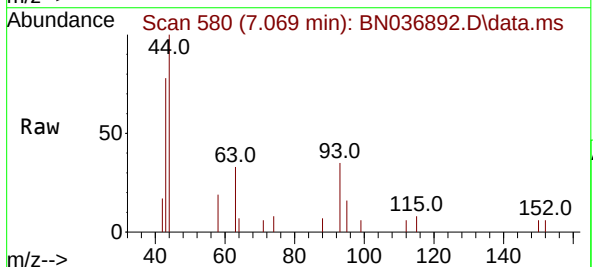
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

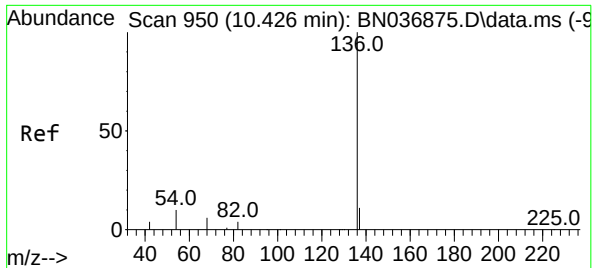
Tgt Ion: 99 Resp: 498
Ion Ratio Lower Upper
99 100
42 36.7 30.9 46.3
71 47.8 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion: 93 Resp: 418
Ion Ratio Lower Upper
93 100
63 90.7 76.4 114.6
95 33.0 26.1 39.1

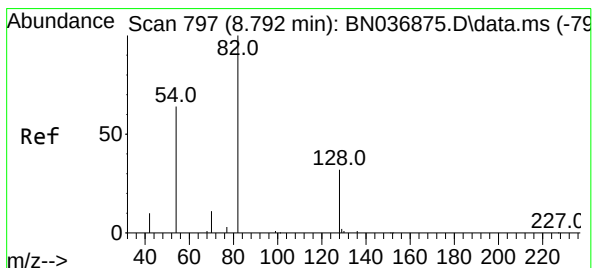
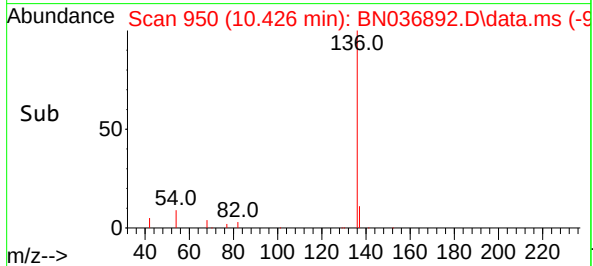
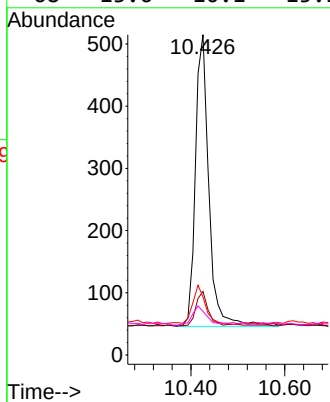
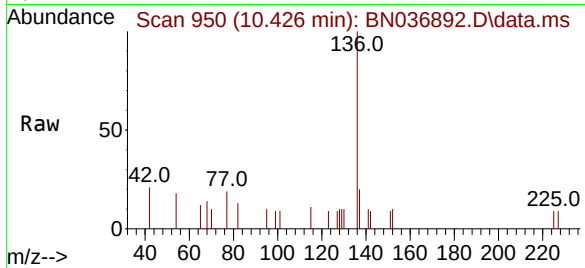




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

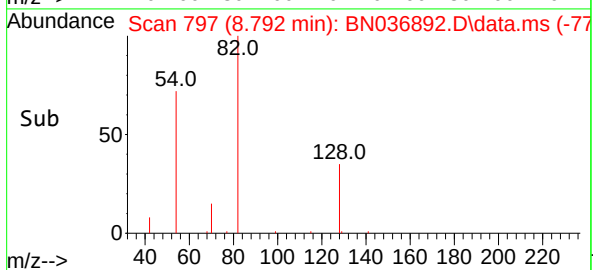
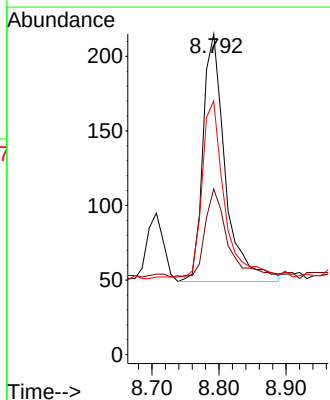
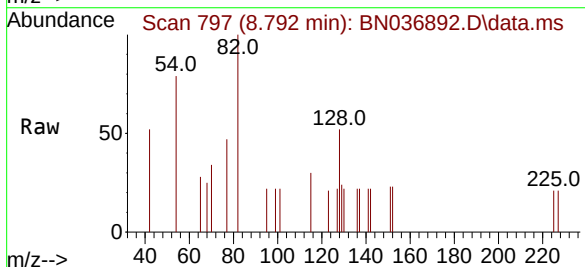
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

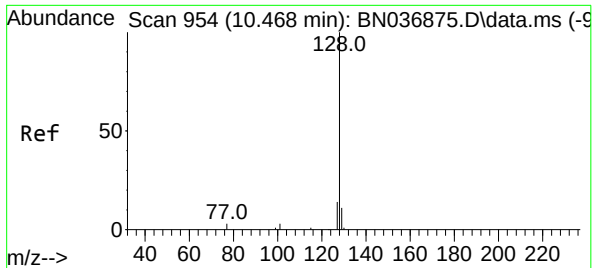
Tgt Ion:	136	Resp:	935
Ion	Ratio	Lower	Upper
136	100		
137	19.8	13.5	20.3
54	18.1	12.8	19.2
68	13.6	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.370 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:	82	Resp:	384
Ion	Ratio	Lower	Upper
82	100		
128	51.6	35.5	53.3
54	79.1	56.2	84.4

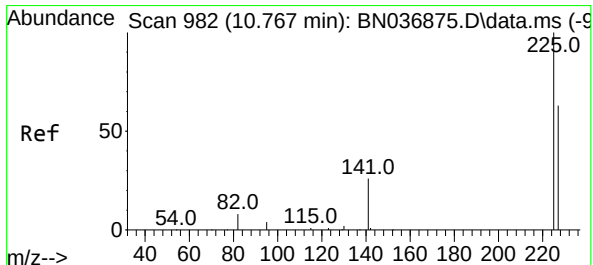
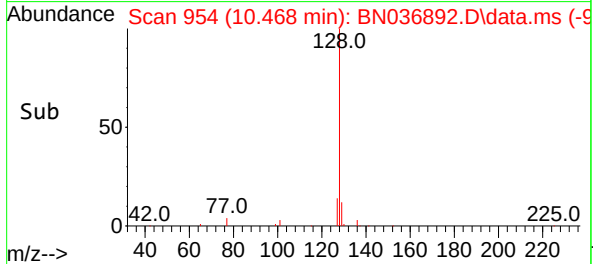
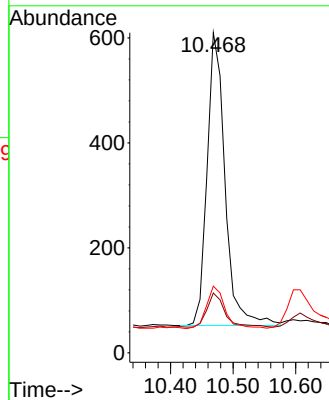
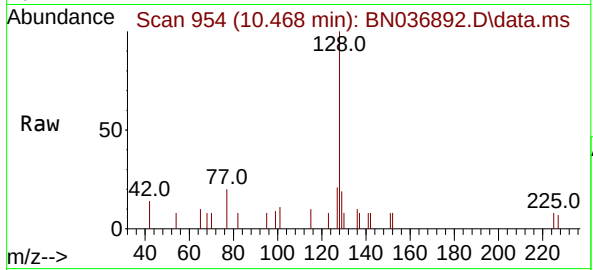




#9
Naphthalene
Concen: 0.413 ng
RT: 10.468 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

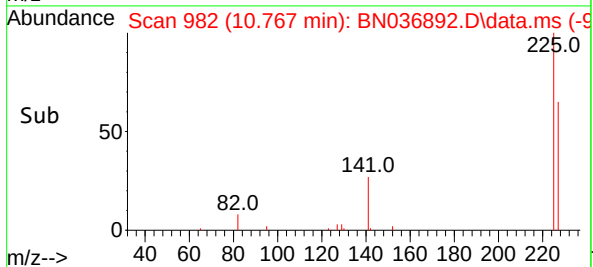
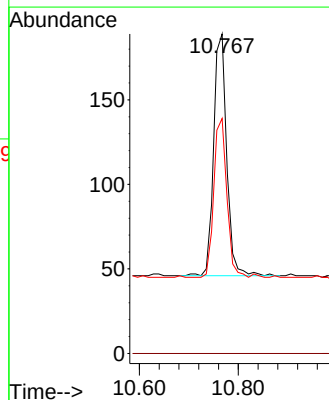
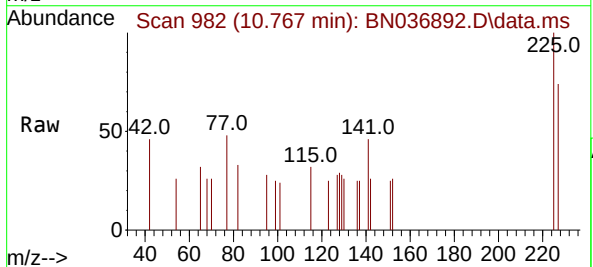
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

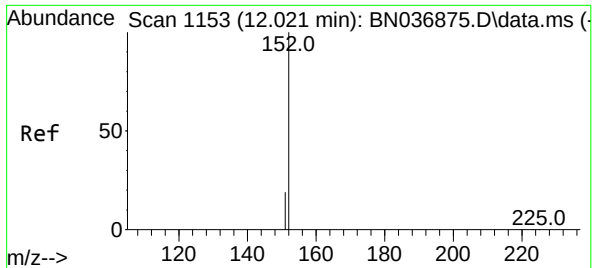
Tgt Ion:	128	Resp:	1111
Ion	Ratio	Lower	Upper
128	100		
129	18.7	12.9	19.3
127	20.8	15.0	22.6



#10
Hexachlorobutadiene
Concen: 0.429 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:	225	Resp:	262
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	50.5	75.7

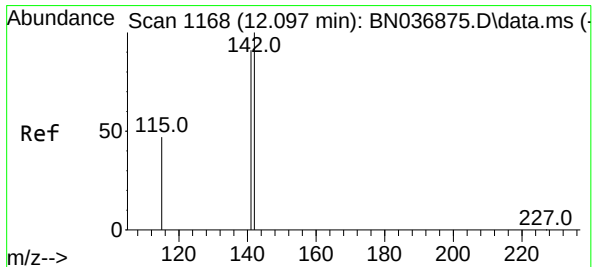
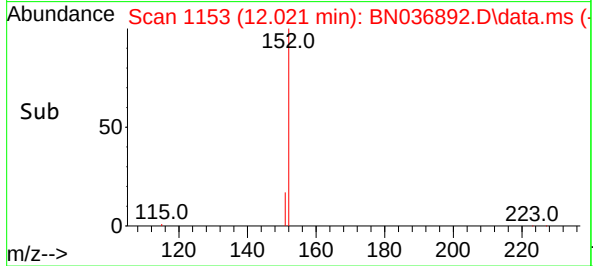
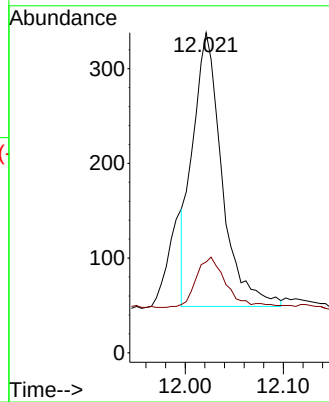
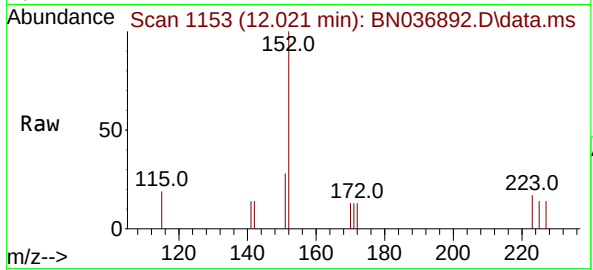




#11
2-Methylnaphthalene-d10
Concen: 0.442 ng m
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

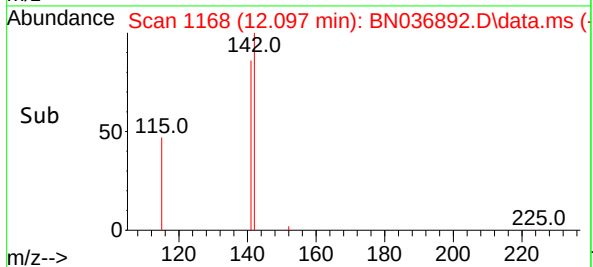
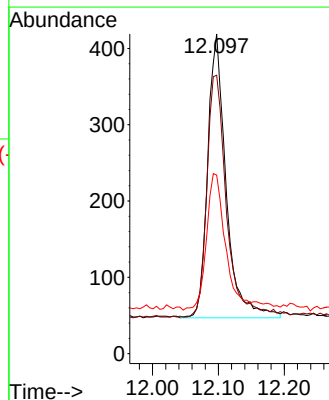
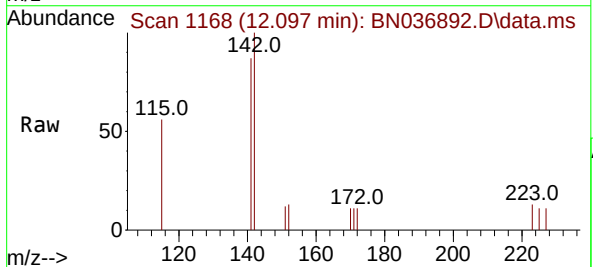
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

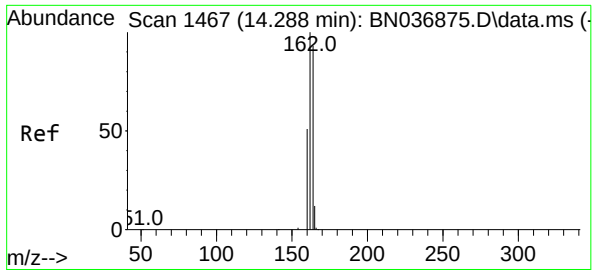
Tgt Ion:152 Resp: 601
Ion Ratio Lower Upper
152 100
151 19.8 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.416 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:142 Resp: 721
Ion Ratio Lower Upper
142 100
141 87.1 73.8 110.8
115 55.8 43.3 64.9

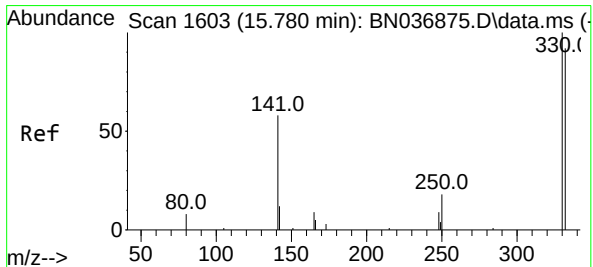
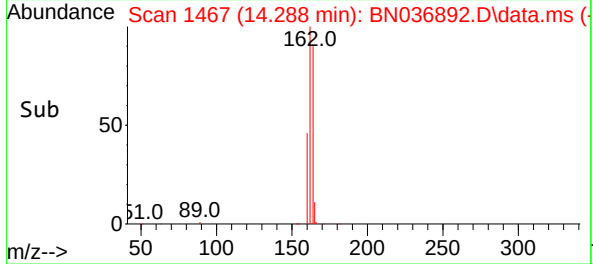
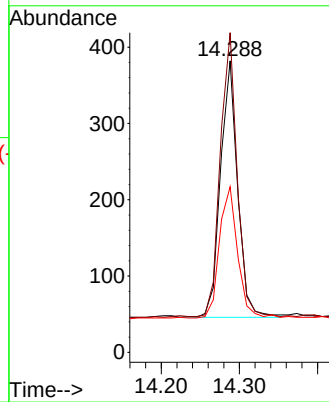
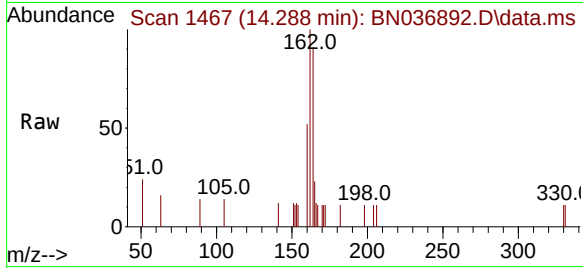




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

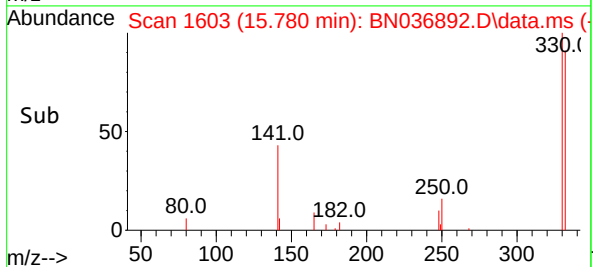
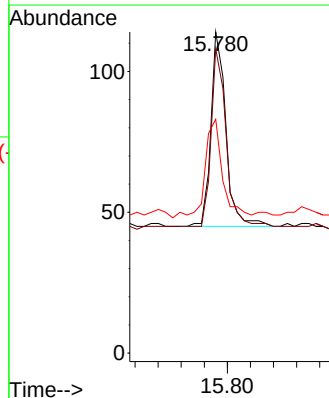
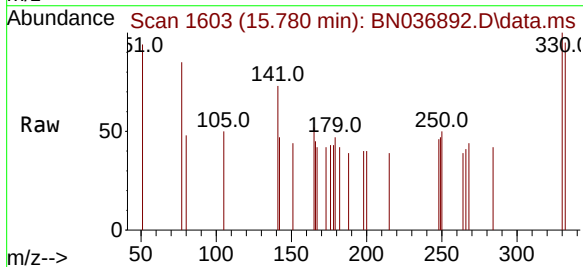
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

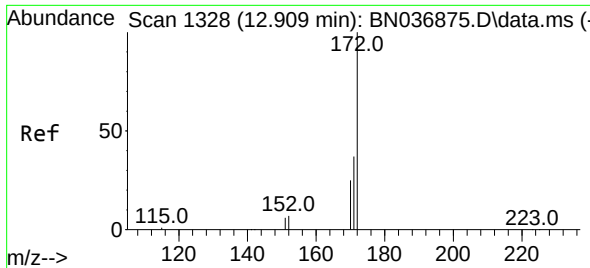
Tgt Ion	Ratio	Lower	Upper
164	100		
162	109.7	85.7	128.5
160	56.8	46.9	70.3



#14
2,4,6-Tribromophenol
Concen: 0.502 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion	Ratio	Lower	Upper
330	100		
332	90.3	87.0	130.6
141	59.7	45.3	67.9

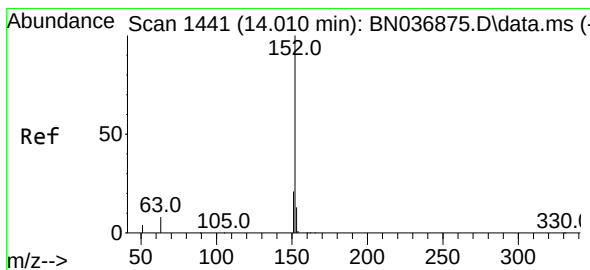
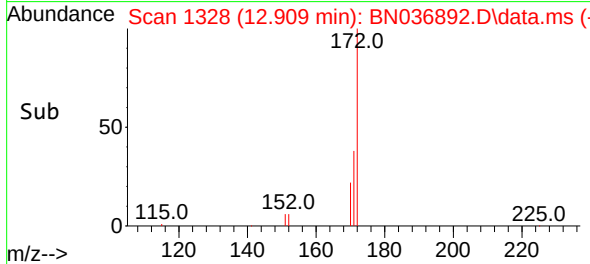
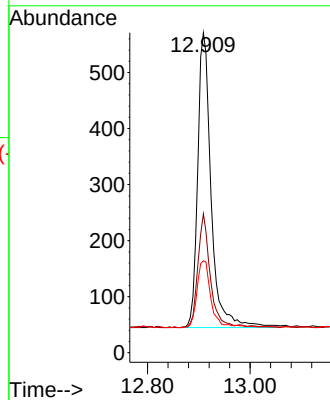
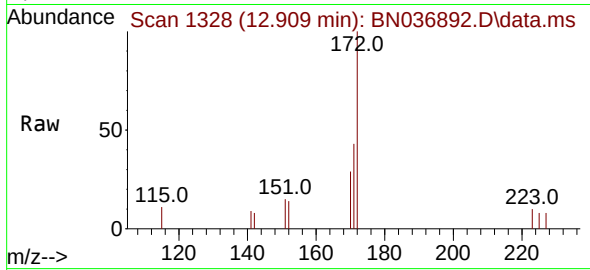




#15
2-Fluorobiphenyl
Concen: 0.451 ng
RT: 12.909 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

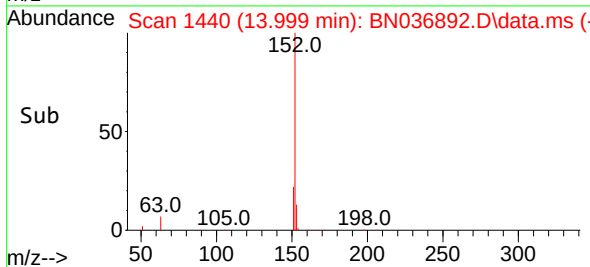
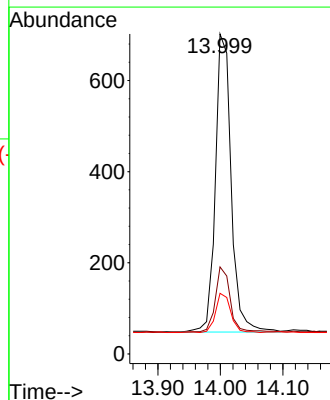
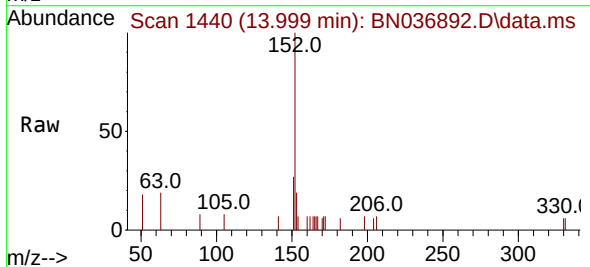
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

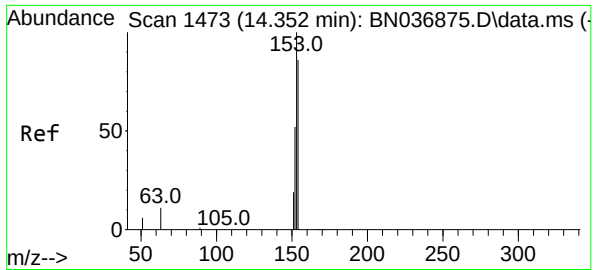
Tgt Ion:172	Resp:	1109
Ion	Ratio	Lower Upper
172	100	
171	43.4	32.7 49.1
170	28.7	23.3 34.9



#16
Acenaphthylene
Concen: 0.484 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.011 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:152	Resp:	1152
Ion	Ratio	Lower Upper
152	100	
151	21.7	16.4 24.6
153	12.7	10.3 15.5

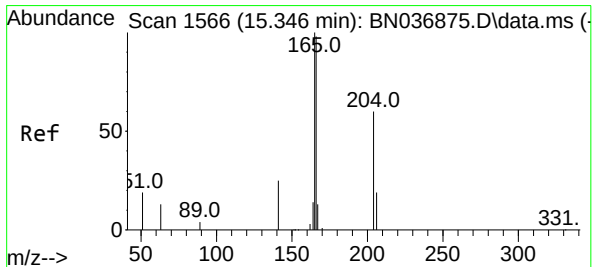
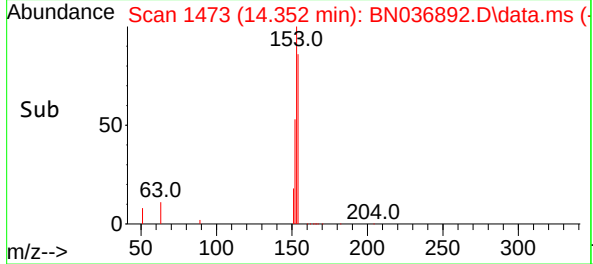
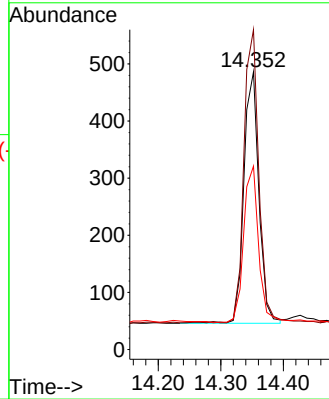
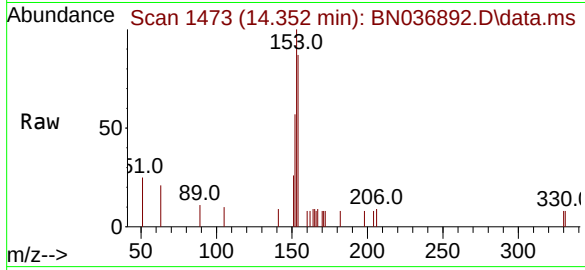




#17
Acenaphthene
Concen: 0.472 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

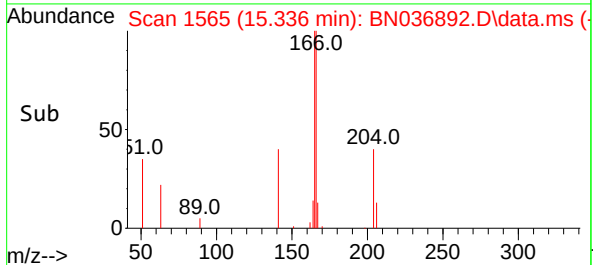
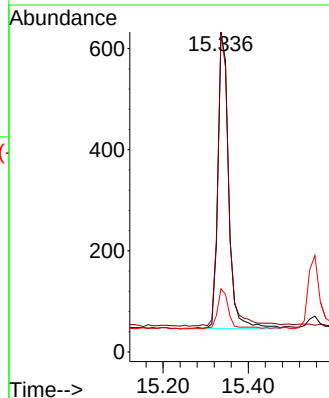
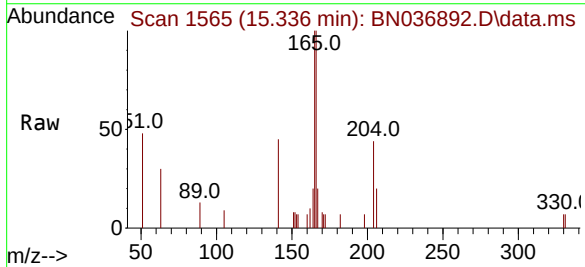
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

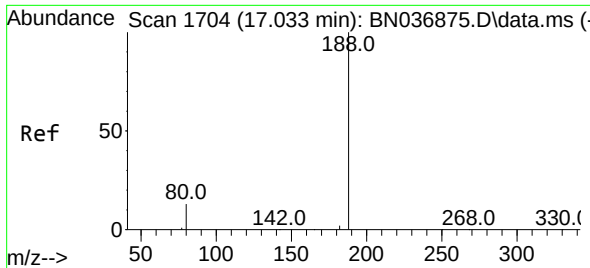
Tgt Ion:	154	Resp:	731
Ion	Ratio	Lower	Upper
154	100		
153	116.1	97.8	146.6
152	64.2	52.7	79.1



#18
Fluorene
Concen: 0.484 ng
RT: 15.336 min Scan# 1565
Delta R.T. -0.011 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:	166	Resp:	1033
Ion	Ratio	Lower	Upper
166	100		
165	99.0	83.2	124.8
167	14.1	11.1	16.7

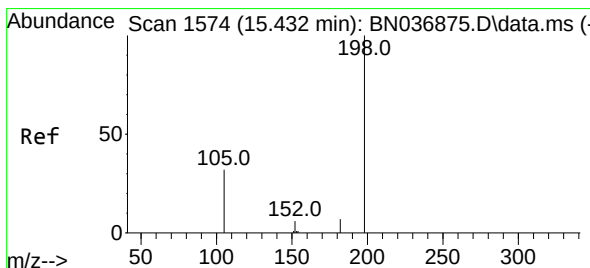
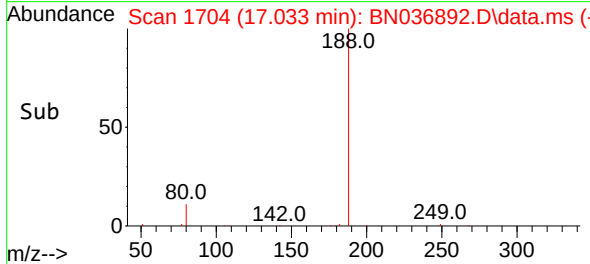
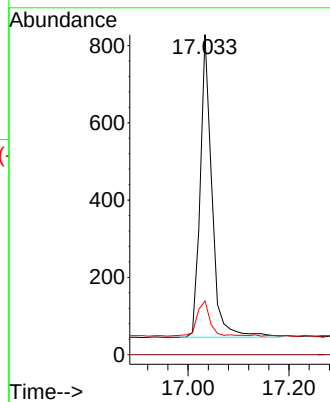
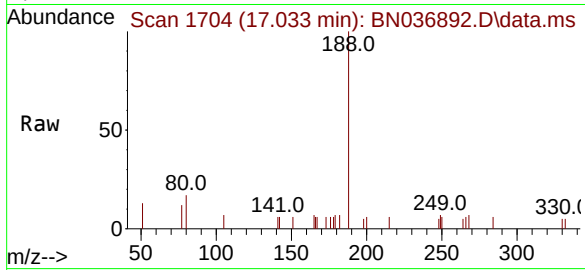




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

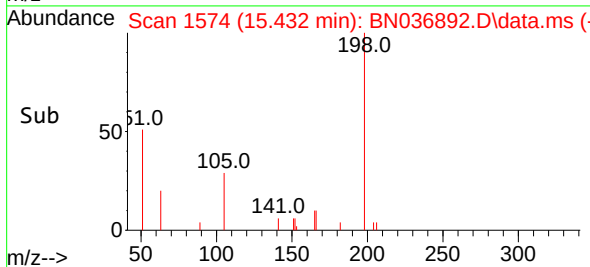
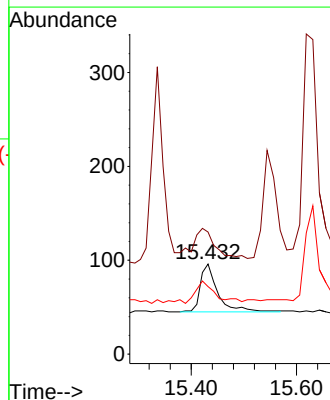
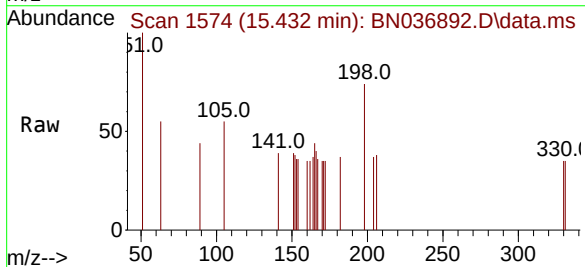
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

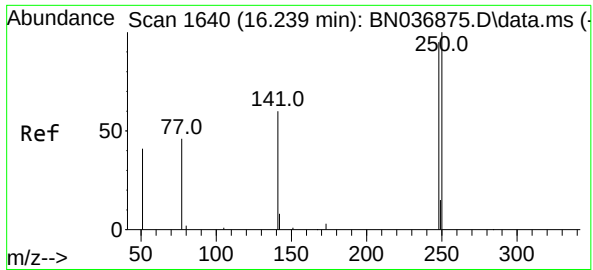
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.8	13.9	20.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.408 ng
RT: 15.432 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

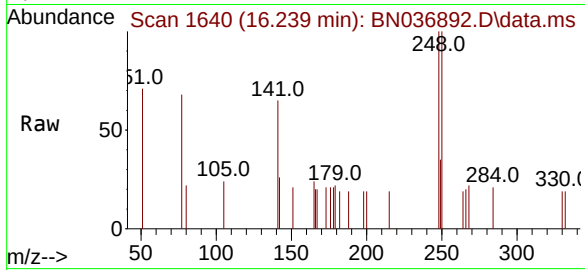
Tgt Ion	Ratio	Lower	Upper
198	100		
51	135.4	107.6	161.4
105	75.0	55.2	82.8



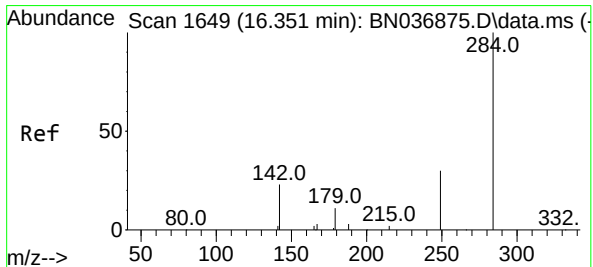
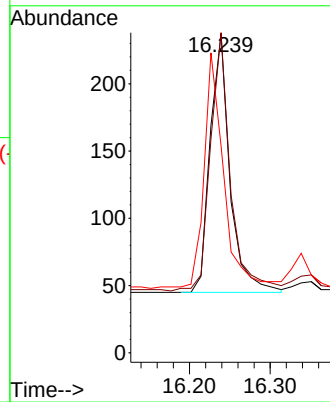
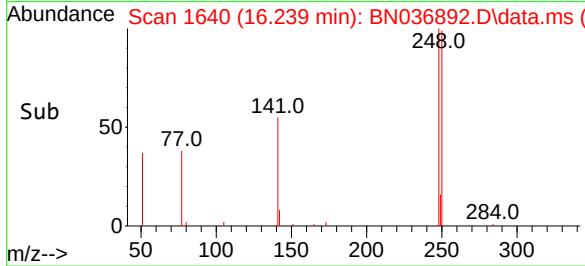


#21
4-Bromophenyl-phenylether
Concen: 0.432 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

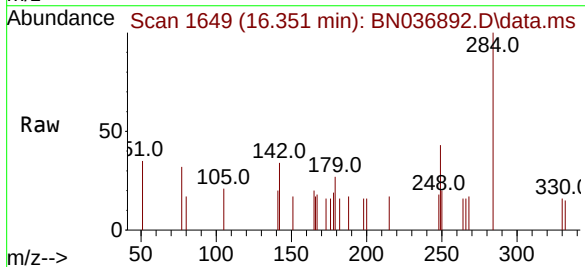
Instrument :
BNA_N
ClientSampleId :
PB167565BSD



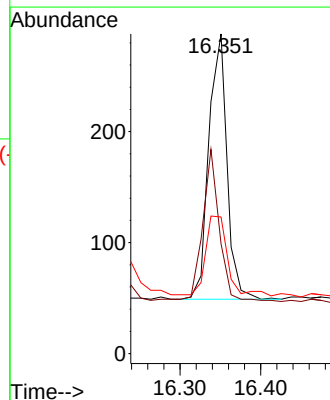
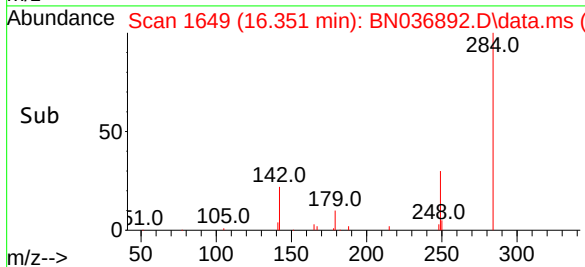
Tgt Ion:248 Resp: 327
Ion Ratio Lower Upper
248 100
250 100.4 83.5 125.3
141 65.0 55.3 82.9

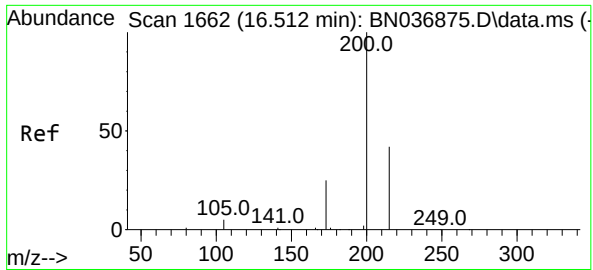


#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33



Tgt Ion:284 Resp: 372
Ion Ratio Lower Upper
284 100
142 53.8 37.7 56.5
249 39.0 29.0 43.6

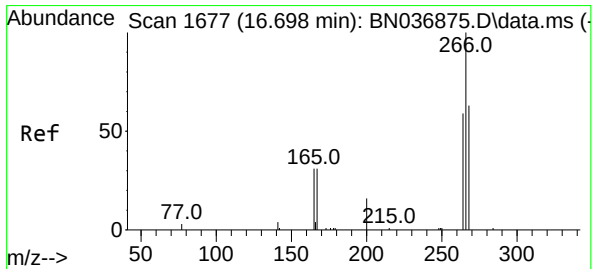
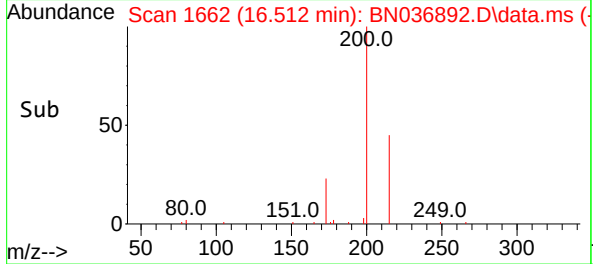
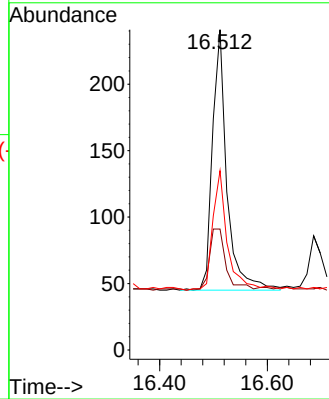
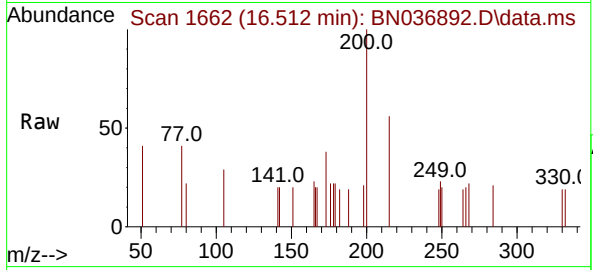




#23
Atrazine
Concen: 0.491 ng
RT: 16.512 min Scan# 1662
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

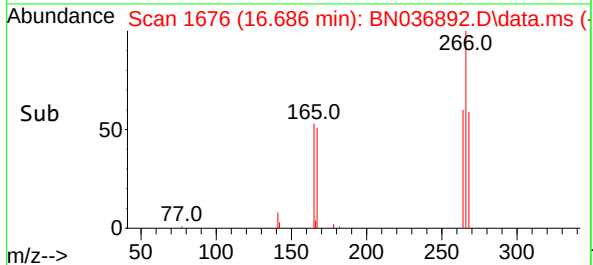
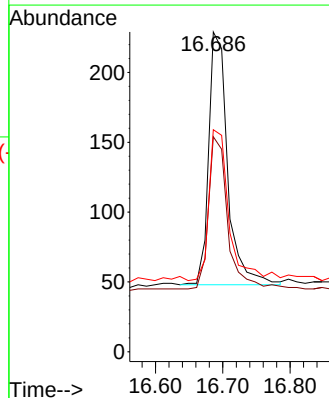
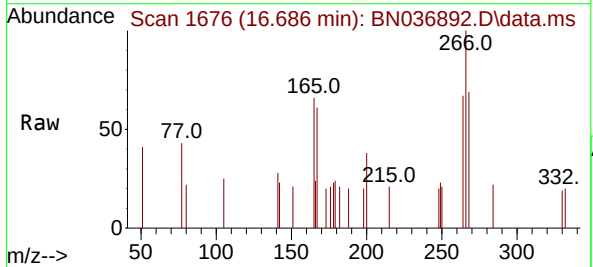
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

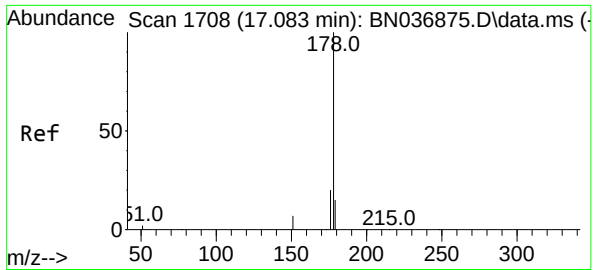
Tgt Ion:200 Resp: 363
Ion Ratio Lower Upper
200 100
173 37.8 28.6 43.0
215 56.0 40.5 60.7



#24
Pentachlorophenol
Concen: 0.757 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:266 Resp: 355
Ion Ratio Lower Upper
266 100
264 61.1 44.6 66.8
268 65.9 51.8 77.6

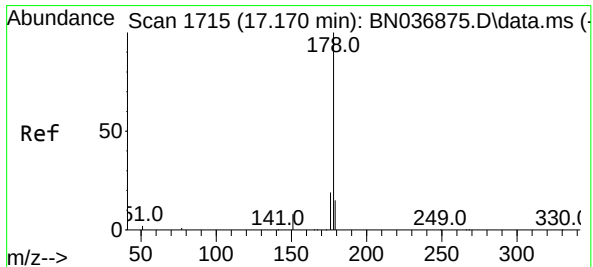
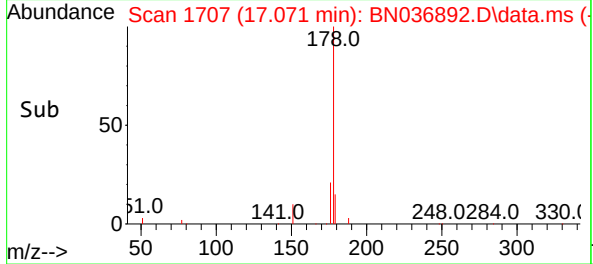
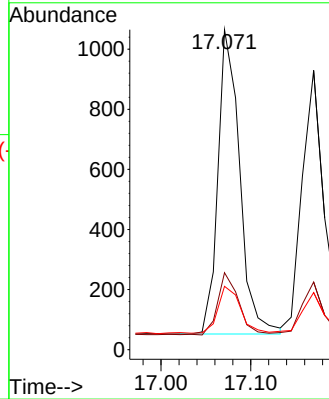
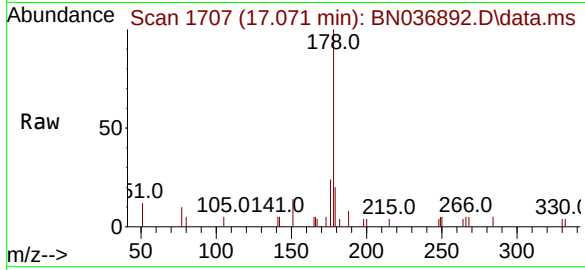




#25
Phenanthrene
Concen: 0.451 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

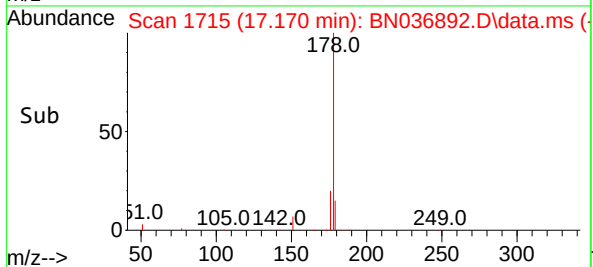
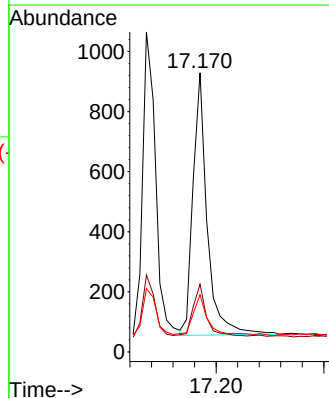
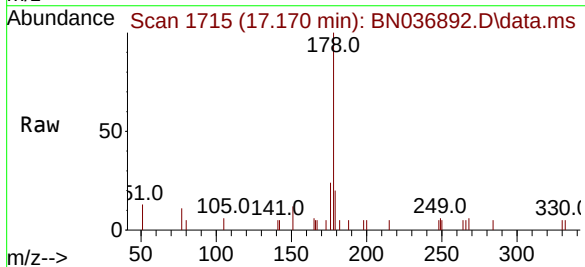
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

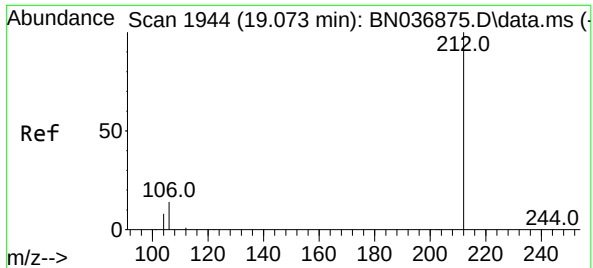
Tgt Ion:	178	Resp:	1707
Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.6	25.0
179	16.7	12.8	19.2



#26
Anthracene
Concen: 0.475 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:	178	Resp:	1603
Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.8	23.6
179	17.5	12.6	18.8

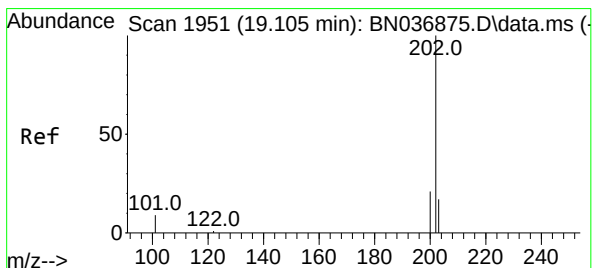
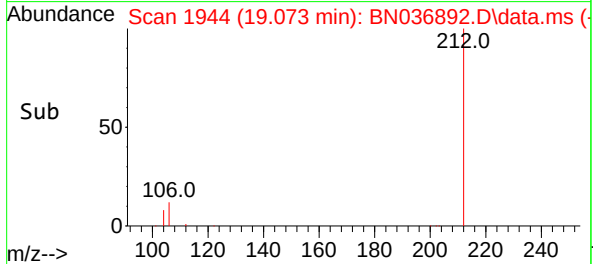
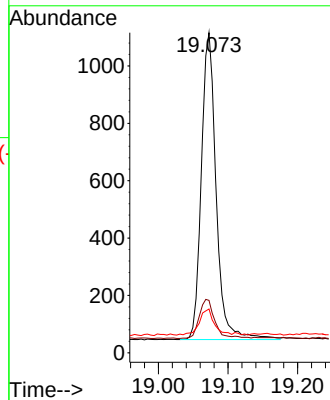
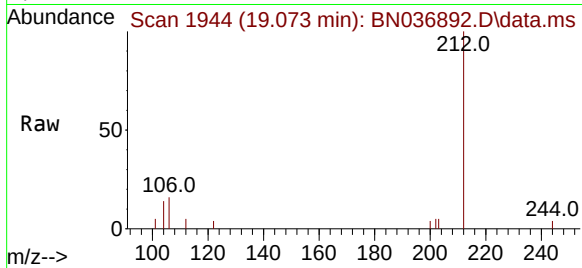




#27
Fluoranthene-d10
Concen: 0.443 ng
RT: 19.073 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

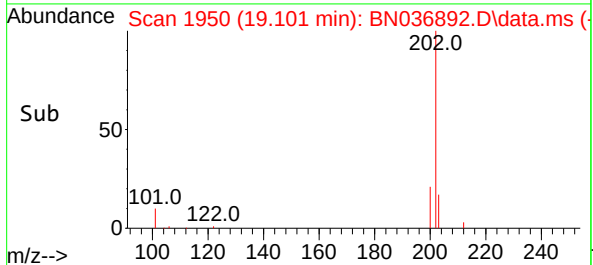
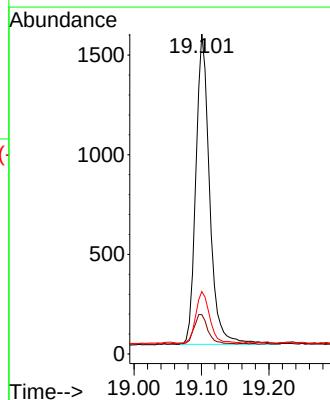
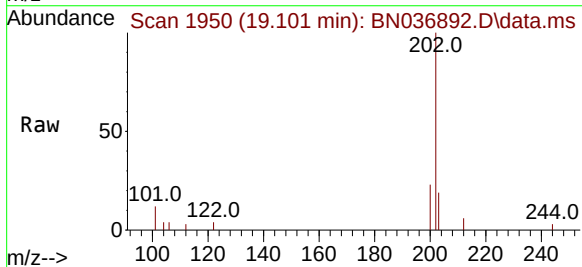
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

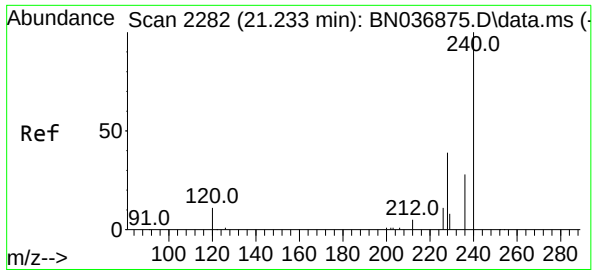
Tgt Ion:212 Resp: 1577
Ion Ratio Lower Upper
212 100
106 13.4 11.2 16.8
104 8.4 7.5 11.3



#28
Fluoranthene
Concen: 0.466 ng
RT: 19.101 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:202 Resp: 2222
Ion Ratio Lower Upper
202 100
101 10.0 8.5 12.7
203 16.7 13.8 20.6

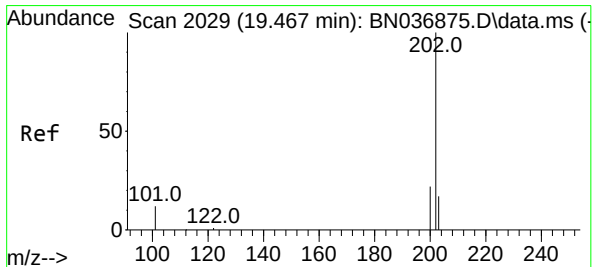
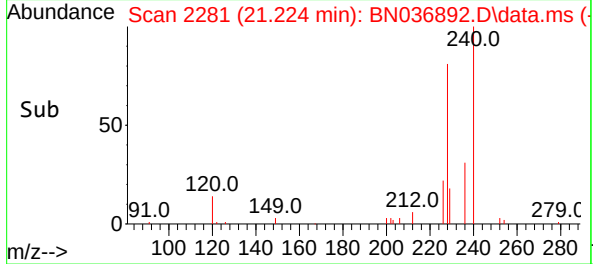
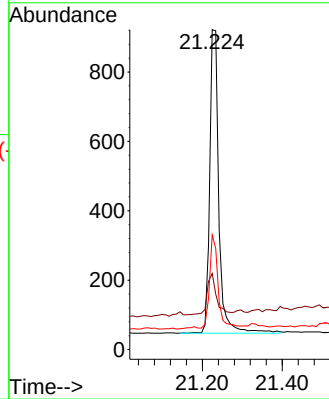
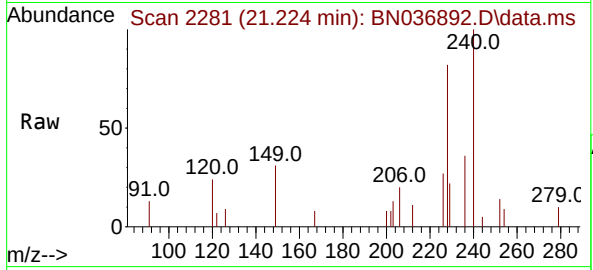




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.224 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

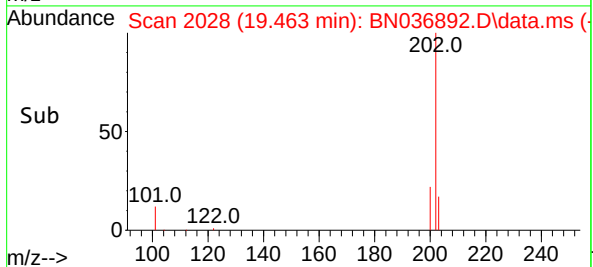
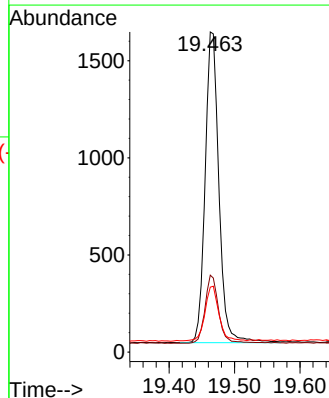
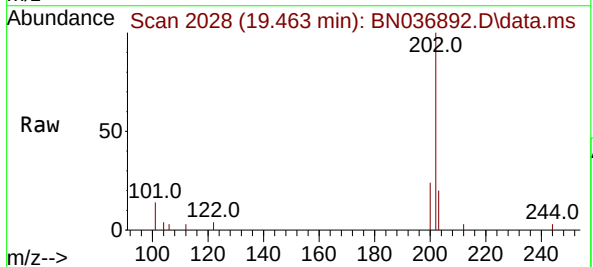
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

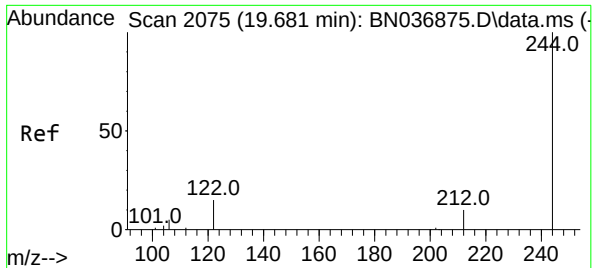
Tgt Ion:240 Resp: 1400
Ion Ratio Lower Upper
240 100
120 23.8 15.8 23.6#
236 35.9 25.8 38.8



#30
Pyrene
Concen: 0.442 ng
RT: 19.463 min Scan# 2028
Delta R.T. -0.005 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:202 Resp: 2339
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.5 14.5 21.7

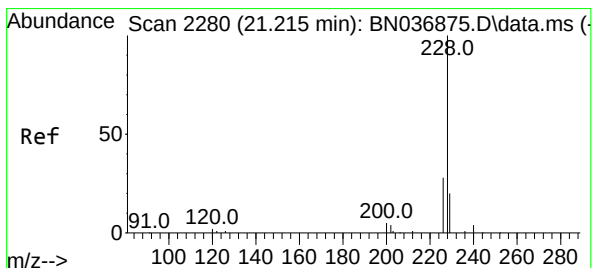
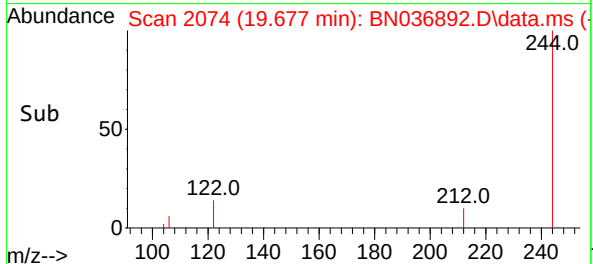
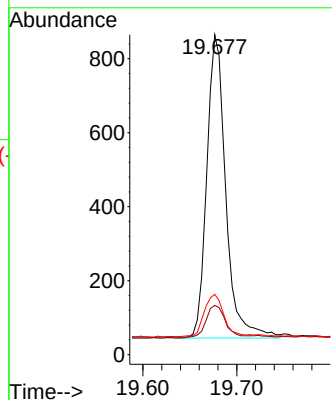
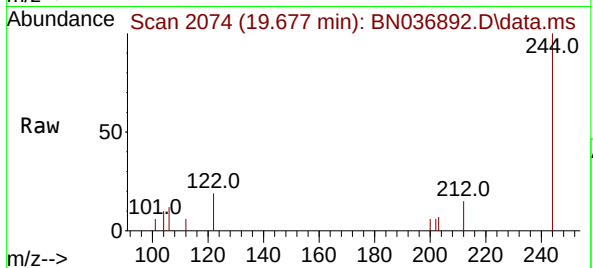




#31
Terphenyl-d14
Concen: 0.434 ng
RT: 19.677 min Scan# 2074
Delta R.T. -0.005 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

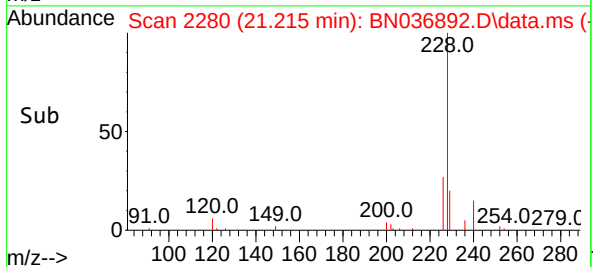
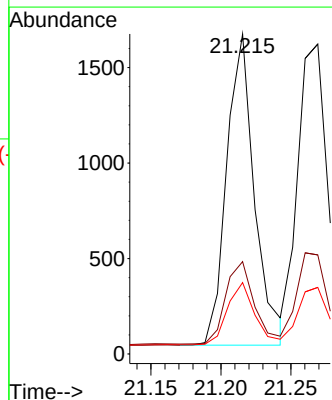
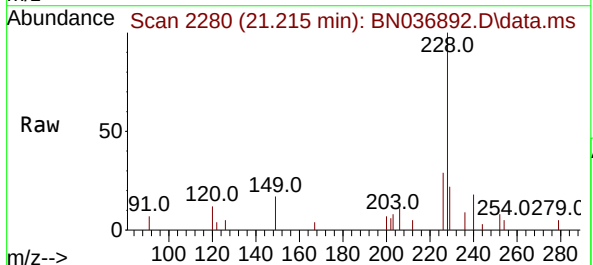
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

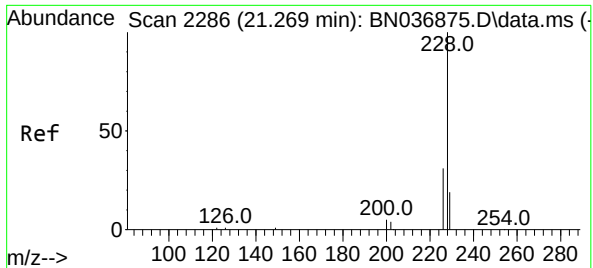
Tgt Ion:244 Resp: 1153
Ion Ratio Lower Upper
244 100
212 15.4 11.6 17.4
122 18.8 14.9 22.3



#32
Benzo(a)anthracene
Concen: 0.456 ng
RT: 21.215 min Scan# 2280
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:228 Resp: 2255
Ion Ratio Lower Upper
228 100
226 28.9 24.5 36.7
229 22.3 17.7 26.5

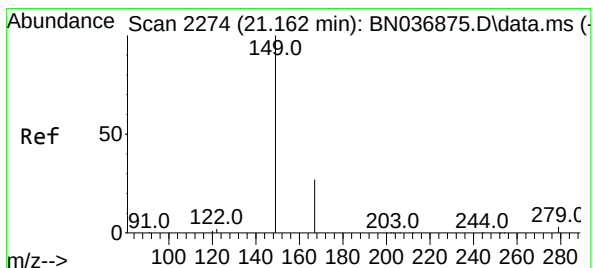
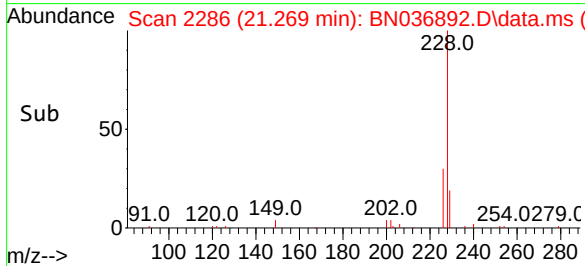
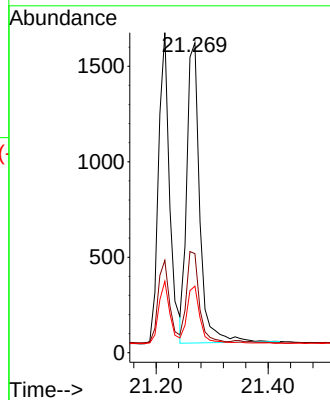
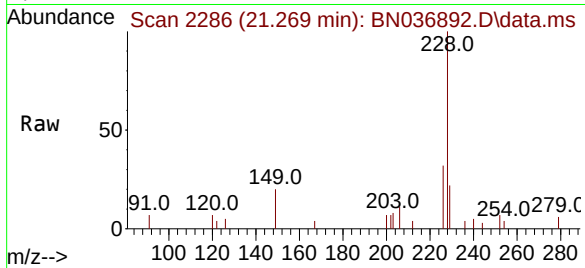




#33
Chrysene
Concen: 0.465 ng
RT: 21.269 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

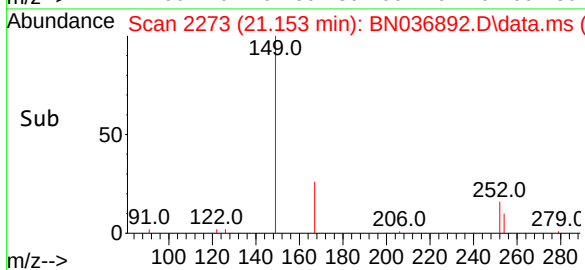
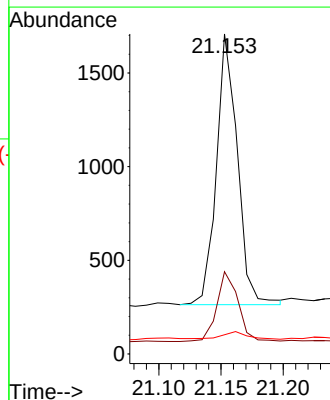
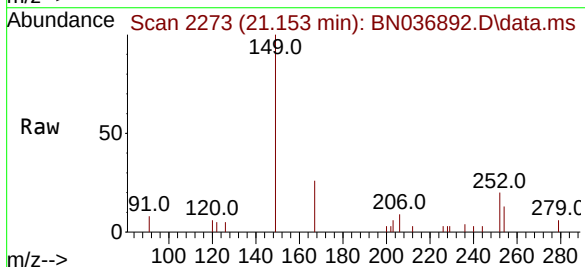
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

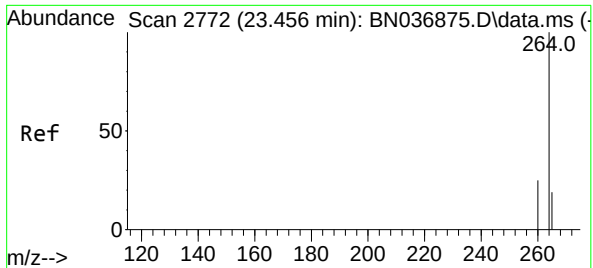
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.0	26.1	39.1
229	21.5	17.0	25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.462 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

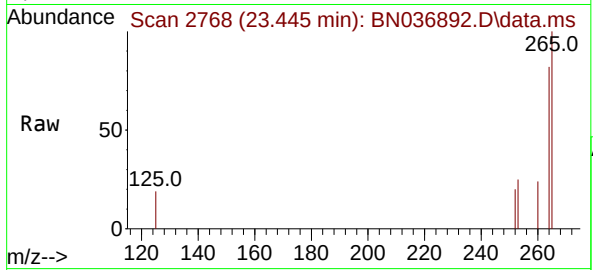
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.4
279	3.3	3.6	5.4#



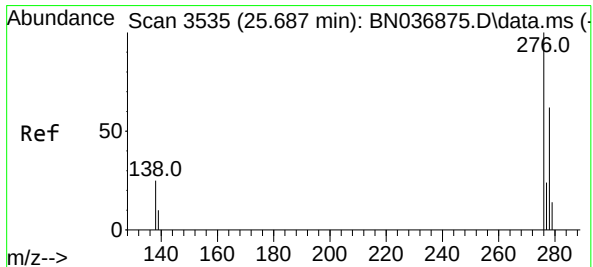
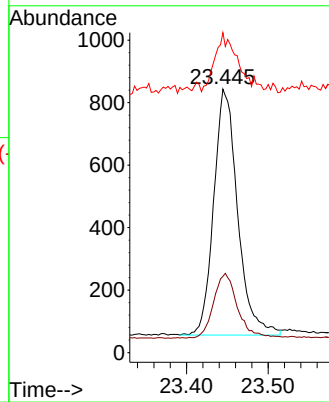
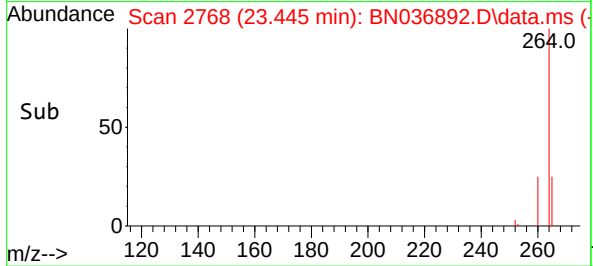


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.445 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

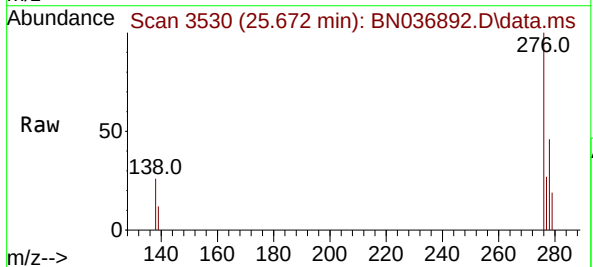
Instrument :
BNA_N
ClientSampleId :
PB167565BSD



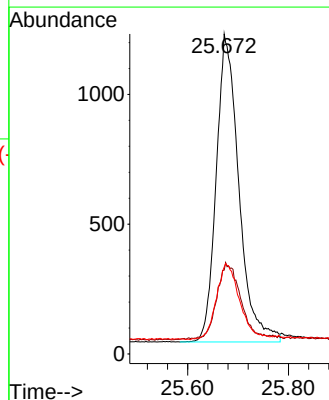
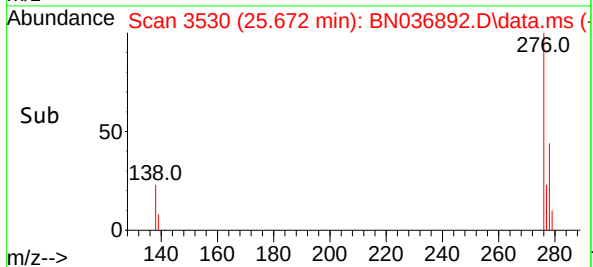
Tgt Ion:264 Resp: 1606
Ion Ratio Lower Upper
264 100
260 28.9 22.9 34.3
265 121.5 88.6 132.8

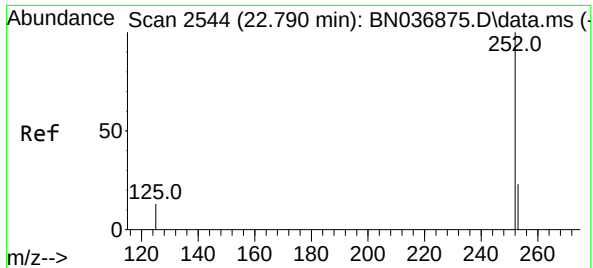


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.483 ng
RT: 25.672 min Scan# 3530
Delta R.T. -0.015 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33



Tgt Ion:276 Resp: 3700
Ion Ratio Lower Upper
276 100
138 24.9 21.0 31.6
277 25.5 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 0.468 ng

RT: 22.784 min Scan# 2542

Delta R.T. -0.006 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD

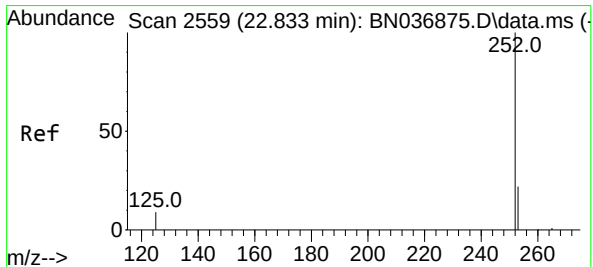
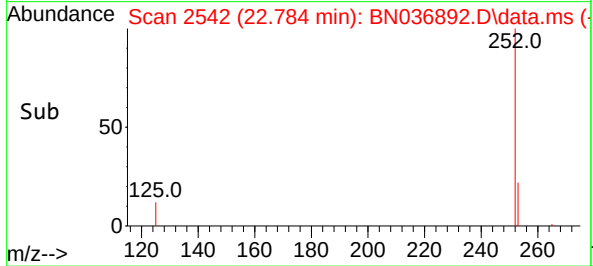
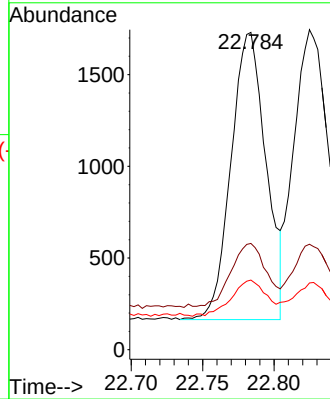
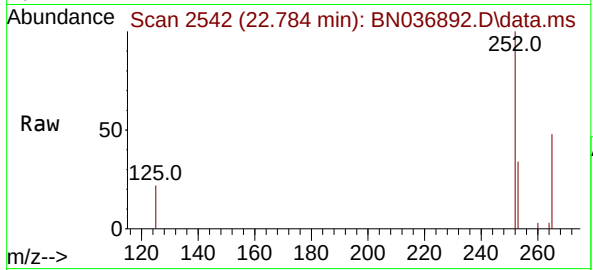
Tgt Ion:252 Resp: 2667

Ion Ratio Lower Upper

252 100

253 33.5 27.0 40.6

125 22.0 17.7 26.5



#38

Benzo(k)fluoranthene

Concen: 0.494 ng

RT: 22.825 min Scan# 2556

Delta R.T. -0.009 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

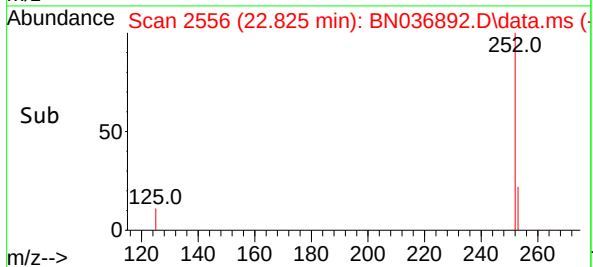
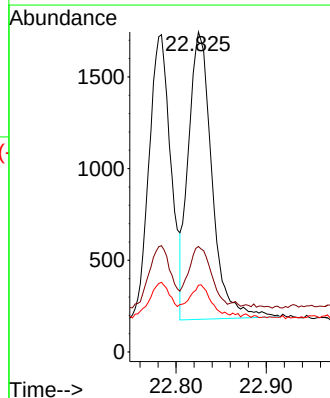
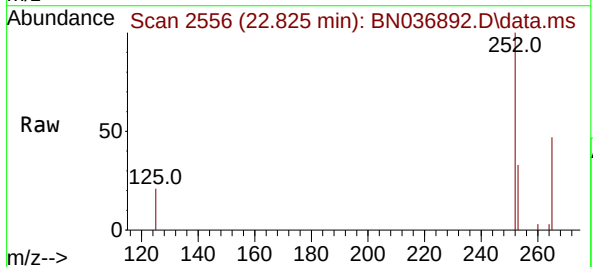
Tgt Ion:252 Resp: 2840

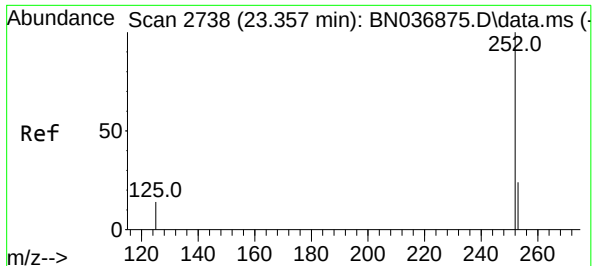
Ion Ratio Lower Upper

252 100

253 33.0 26.7 40.1

125 20.9 16.9 25.3





#39

Benzo(a)pyrene

Concen: 0.507 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD

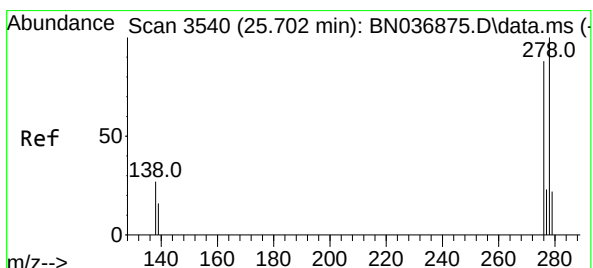
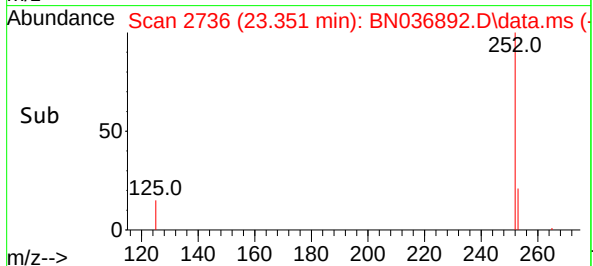
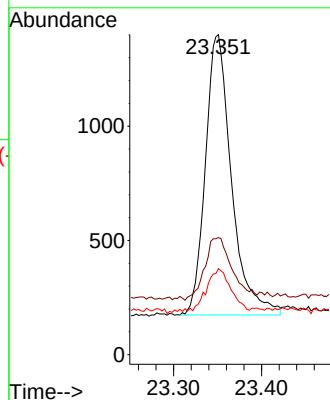
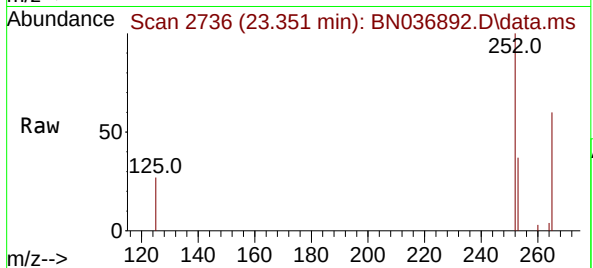
Tgt Ion:252 Resp: 2534

Ion Ratio Lower Upper

252 100

253 36.6 31.5 47.3

125 26.9 22.6 34.0



#40

Dibenzo(a,h)anthracene

Concen: 0.484 ng

RT: 25.693 min Scan# 3537

Delta R.T. -0.009 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

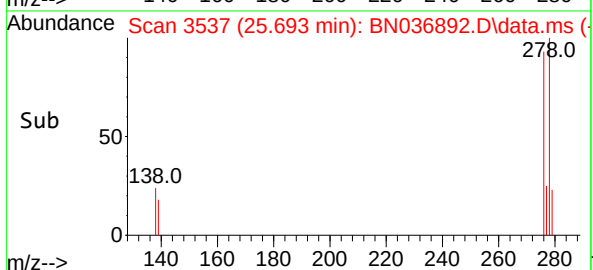
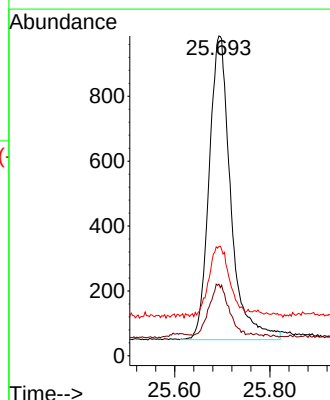
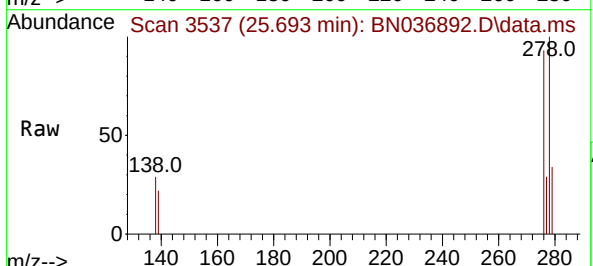
Tgt Ion:278 Resp: 2949

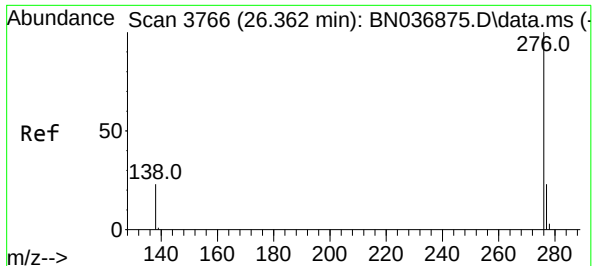
Ion Ratio Lower Upper

278 100

139 22.4 17.6 26.4

279 34.2 26.7 40.1





#41

Benzo(g,h,i)perylene

Concen: 0.437 ng

RT: 26.357 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN036892.D

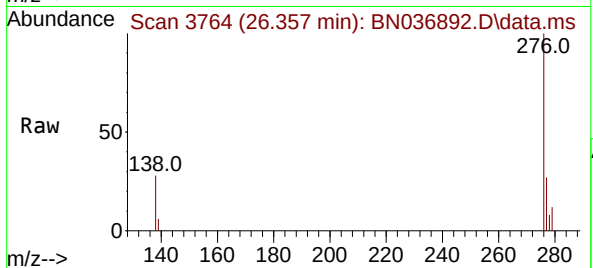
Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD



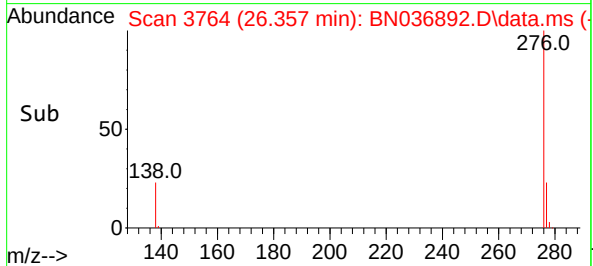
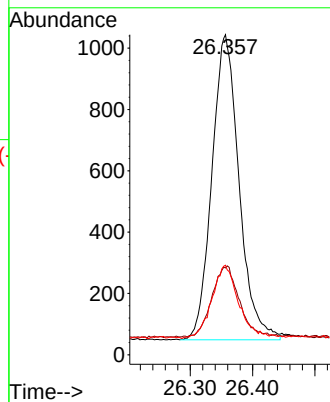
Tgt Ion:276 Resp: 3007

Ion Ratio Lower Upper

276 100

277 27.1 21.8 32.8

138 28.0 21.6 32.4



Manual Integration Report

Sequence:	bn041125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036873.D	Benzo(k)fluoranthene	Rahul	4/14/2025 11:05:23 AM	Jagrut	4/14/2025 1:07:34 PM	Peak Integrated by Software
SSTDICV0.4	BN036880.D	1,4-Dioxane	Rahul	4/14/2025 11:05:25 AM	Jagrut	4/14/2025 1:07:37 PM	Peak Integrated by Software
SSTDCCC0.4	BN036884.D	1,4-Dioxane	Rahul	4/14/2025 11:05:28 AM	Jagrut	4/14/2025 1:07:40 PM	Peak Integrated by Software
SSTDCCC0.4	BN036884.D	Benzo(k)fluoranthene	Rahul	4/14/2025 11:05:28 AM	Jagrut	4/14/2025 1:07:40 PM	Peak Integrated by Software
PB167565BS	BN036891.D	2-Methylnaphthalene-d1 0	Rahul	4/14/2025 11:06:02 AM	Jagrut	4/14/2025 1:07:45 PM	Peak Integrated by Software
PB167565BSD	BN036892.D	2-Methylnaphthalene-d1 0	Rahul	4/14/2025 11:06:05 AM	Jagrut	4/14/2025 1:07:47 PM	Peak Integrated by Software
SSTDCCC0.4	BN036895.D	1,4-Dioxane	Rahul	4/14/2025 11:06:14 AM	Jagrut	4/14/2025 1:07:55 PM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN041125

Review By	Rahul	Review On	4/14/2025 11:08:44 AM
Supervise By	Jagrut	Supervise On	4/14/2025 1:08:14 PM
SubDirectory	BN041125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn041125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036872.D	11 Apr 2025 11:03	RC/JU	Ok
2	SSTDIC0.1	BN036873.D	11 Apr 2025 11:42	RC/JU	Ok,M
3	SSTDIC0.2	BN036874.D	11 Apr 2025 12:37	RC/JU	Ok
4	SSTDIC0.4	BN036875.D	11 Apr 2025 13:17	RC/JU	Ok
5	SSTDIC0.8	BN036876.D	11 Apr 2025 13:53	RC/JU	Ok
6	SSTDIC1.6	BN036877.D	11 Apr 2025 14:30	RC/JU	Ok
7	SSTDIC3.2	BN036878.D	11 Apr 2025 15:06	RC/JU	Ok
8	SSTDIC5.0	BN036879.D	11 Apr 2025 15:42	RC/JU	Ok
9	SSTDICV0.4	BN036880.D	11 Apr 2025 16:18	RC/JU	Ok,M
10	PB167519BL	BN036881.D	11 Apr 2025 16:53	RC/JU	Not Ok
11	PB167565BL	BN036882.D	11 Apr 2025 17:29	RC/JU	Not Ok
12	DFTPP	BN036883.D	11 Apr 2025 18:06	RC/JU	Ok
13	SSTDIC0.4	BN036884.D	11 Apr 2025 18:45	RC/JU	Ok,M
14	PB167565BL	BN036885.D	11 Apr 2025 19:21	RC/JU	Ok
15	Q1741-01	BN036886.D	11 Apr 2025 19:57	RC/JU	Dilution
16	Q1741-02	BN036887.D	11 Apr 2025 20:34	RC/JU	Ok
17	Q1741-03	BN036888.D	11 Apr 2025 21:10	RC/JU	Ok
18	Q1773-02	BN036889.D	11 Apr 2025 21:46	RC/JU	Ok
19	Q1773-03	BN036890.D	11 Apr 2025 22:22	RC/JU	Ok
20	PB167565BS	BN036891.D	11 Apr 2025 22:57	RC/JU	Ok,M
21	PB167565BSD	BN036892.D	11 Apr 2025 23:33	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN041125

Review By	Rahul	Review On	4/14/2025 11:08:44 AM
Supervise By	Jagrut	Supervise On	4/14/2025 1:08:14 PM
SubDirectory	BN041125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn041125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB167519BS	BN036893.D	12 Apr 2025 00:09	RC/JU	Ok,M
23	PB167519BSD	BN036894.D	12 Apr 2025 00:45	RC/JU	Ok,M
24	SSTDCCC0.4	BN036895.D	12 Apr 2025 01:21	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN041125

Review By	Rahul	Review On	4/14/2025 11:08:44 AM
Supervise By	Jagrut	Supervise On	4/14/2025 1:08:14 PM
SubDirectory	BN041125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn041125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6735 SP6740,1ul/100ul sample SP6768

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036872.D	11 Apr 2025 11:03		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036873.D	11 Apr 2025 11:42	Compound#02 removed from 0.1 ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036874.D	11 Apr 2025 12:37		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN036875.D	11 Apr 2025 13:17		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036876.D	11 Apr 2025 13:53		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036877.D	11 Apr 2025 14:30		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036878.D	11 Apr 2025 15:06		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036879.D	11 Apr 2025 15:42		RC/JU	Ok
9	SSTDICV0.4	ICVBN041125	BN036880.D	11 Apr 2025 16:18		RC/JU	Ok,M
10	PB167519BL	PB167519BL	BN036881.D	11 Apr 2025 16:53	Internal Standard Fail, Analyzed for contamination check	RC/JU	Not Ok
11	PB167565BL	PB167565BL	BN036882.D	11 Apr 2025 17:29	Internal Standard Fail, Analyzed for contamination check	RC/JU	Not Ok
12	DFTPP	DFTPP	BN036883.D	11 Apr 2025 18:06		RC/JU	Ok
13	SSTDCCC0.4	SSTDCCC0.4	BN036884.D	11 Apr 2025 18:45		RC/JU	Ok,M
14	PB167565BL	PB167565BL	BN036885.D	11 Apr 2025 19:21		RC/JU	Ok
15	Q1741-01	RMW-02B-66-040425	BN036886.D	11 Apr 2025 19:57	Need 10X Dilution	RC/JU	Dilution
16	Q1741-02	RMW-06B-74-040425	BN036887.D	11 Apr 2025 20:34		RC/JU	Ok
17	Q1741-03	FB01-040425	BN036888.D	11 Apr 2025 21:10		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN041125

Review By	Rahul	Review On	4/14/2025 11:08:44 AM
Supervise By	Jagrut	Supervise On	4/14/2025 1:08:14 PM
SubDirectory	BN041125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn041125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	Q1773-02	BP-TT190D2-GW-2025	BN036889.D	11 Apr 2025 21:46		RC/JU	Ok
19	Q1773-03	BP-TT190D1-GW-2025	BN036890.D	11 Apr 2025 22:22		RC/JU	Ok
20	PB167565BS	PB167565BS	BN036891.D	11 Apr 2025 22:57		RC/JU	Ok,M
21	PB167565BSD	PB167565BSD	BN036892.D	11 Apr 2025 23:33		RC/JU	Ok,M
22	PB167519BS	PB167519BS	BN036893.D	12 Apr 2025 00:09		RC/JU	Ok,M
23	PB167519BSD	PB167519BSD	BN036894.D	12 Apr 2025 00:45		RC/JU	Ok,M
24	SSTDCCC0.4	SSTDCCC0.4EC	BN036895.D	12 Apr 2025 01:21		RC/JU	Ok,M

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 04/11/2025

Matrix : Water **Extraction Start Time :** 09:20

Weigh By: N/A **Extraction By:** RJ **Extraction End Date :** 04/11/2025

Balance check: N/A **Filter By:** RJ **Extraction End Time :** 14:20

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3880 **Hood ID:** 4,5,6,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standardized 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	SP6758
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	E3926
Baked Na2SO4	N/A	EP2599
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-1,2 **Envap ID:** NEVAP-02

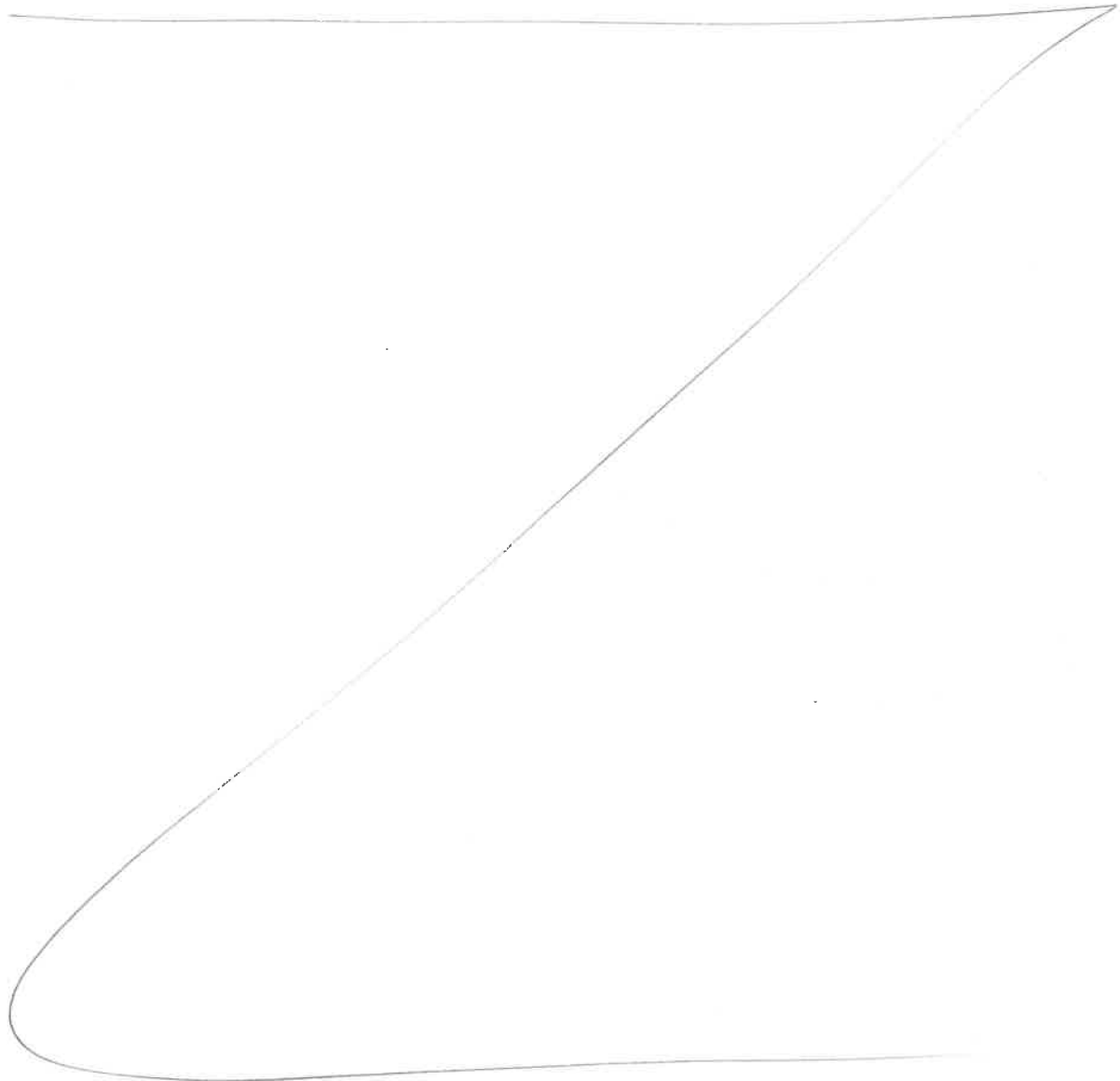
KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/11/25 14:25	RP (Ext. Lab)	RelSVOC
	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 04/11/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167565BL	SBLK565	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			SEP-12
PB167565BS	SLCS565	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			13
PB167565BS D	SLCSD565	SVOC-SIMGrou p1	1000	6	ritesh	rajesh	1			14
Q1773-02	BP-TT-190D2-GW-202504 07	SVOC-SIMGrou p1	970	6	ritesh	rajesh	1	C		15
Q1773-03	BP-TT-190D1-GW-202504 09	SVOC-SIMGrou p1	980	6	ritesh	rajesh	1	C		16



* Extracts relinquished on the same date as received.

4/11/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1773 WorkList ID : 188867 Department : Extraction Date : 04-11-2025 08:11:08

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1762-02	MW5	Water	SVOC-TCL BNA -20	Cool 4 deg C	GENV01	L31	04/09/2025	8270E
Q1773-02	BP-TT-190D2-GW-20250407	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	F11	04/07/2025	8270-Modified
Q1773-03	BP-TT-190D1-GW-20250409	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	F11	04/07/2025	8270-Modified

Date/Time 04/11/25 9:15
 Raw Sample Received by: RJ (Set 106)
 Raw Sample Relinquished by: JD (Sm)

Date/Time 04/11/25 9:45
 Raw Sample Received by: JD (Sm)
 Raw Sample Relinquished by: RJ (Set 106)

- 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 : Q1773
Test : SVOC-SIMGroup1
Prepbatch ID : PB167565,
Sequence ID/Qc Batch ID: bn041125,BN041425,

Standard ID :
EP2559,EP2565,EP2599,SP6682,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6757,SP6758,SP6767,SP6768,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3828,E3873,E3874,E3904,E3915,E3926,M5173,S10104,S 11495,S11650,S11785,S11788,S11832,S12114,S12195,S12216,S12270,S12328,S12478,S12486,S12525,S12533,S12577,S12651,S12791,S12966,S12974,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	EP2599	04/07/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 04/07/2025

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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6730	02/04/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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	Yogesh 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

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	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
04/01/2025								

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = 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	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed
04/07/2025								

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE FROM 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 + 0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = 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	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	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	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

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	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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 #
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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

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

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

CHEMICAL RECEIPT LOG BOOK

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, CH2Cl2, 1mL	A0206540	05/13/2025	11/13/2024 / anahy	05/30/2024 / Rahul	S12328

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	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	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[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	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	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

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	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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

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]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

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 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: Erica Castiglione
Erica Castiglione
Chemist



**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.

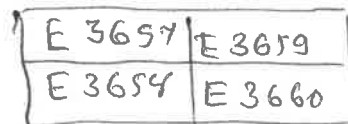
This document has been electronically produced and is valid without a signature.

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

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

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

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titration Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

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

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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



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(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

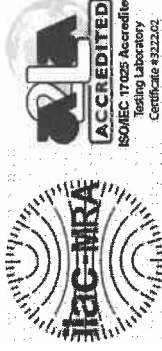


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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.:	555872	Lot No.:	A0201728
Description:	Custom Pentachlorophenol Standard		
	Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul		
Container Size:	2 mL	Pkg Amt:	> 1 mL
Expiration Date:	September 30, 2026	Storage:	10°C or colder
		Ship:	Ambient

511649
↓
511658
Y.P.
11/13/23

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
CAS # 67-56-1
Purity 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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

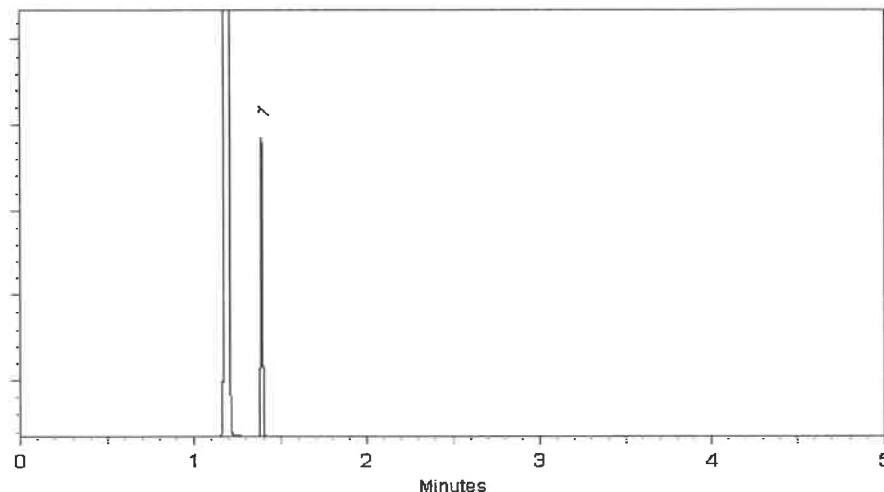
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

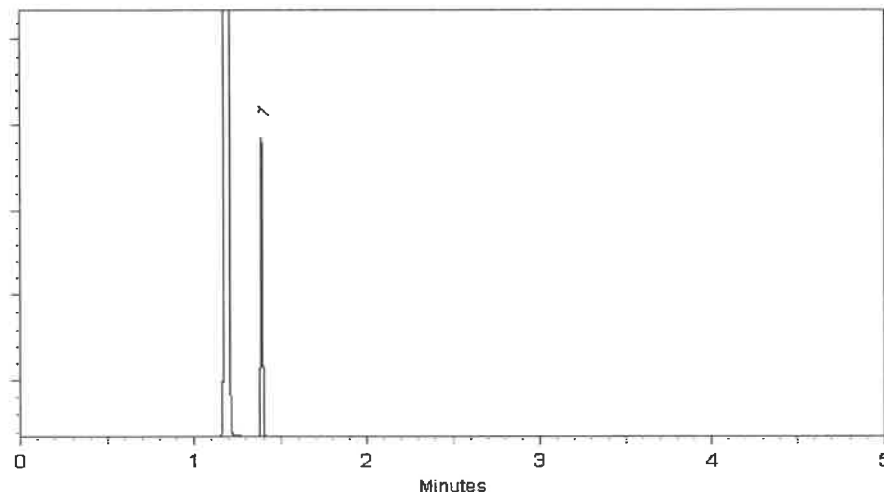
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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.

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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:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

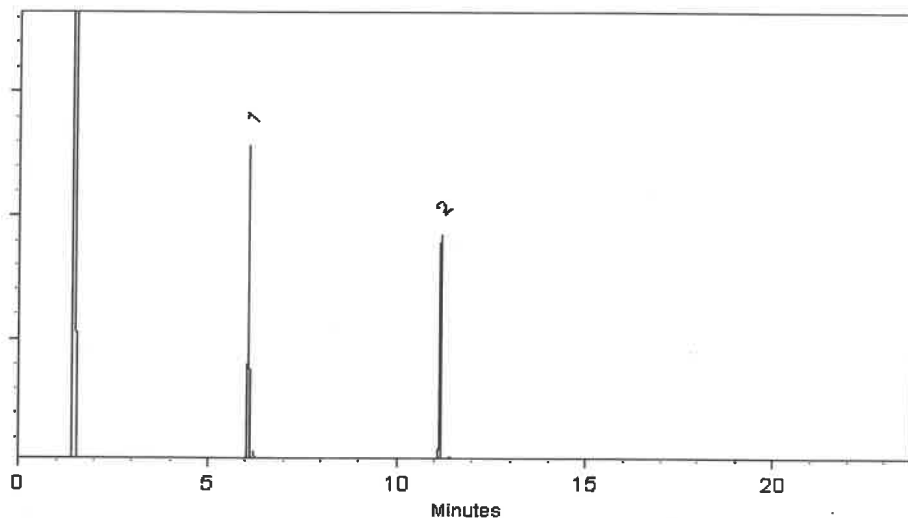
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

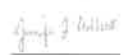


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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:

- 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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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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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/
↓ } 03/18/24
512206 }

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:

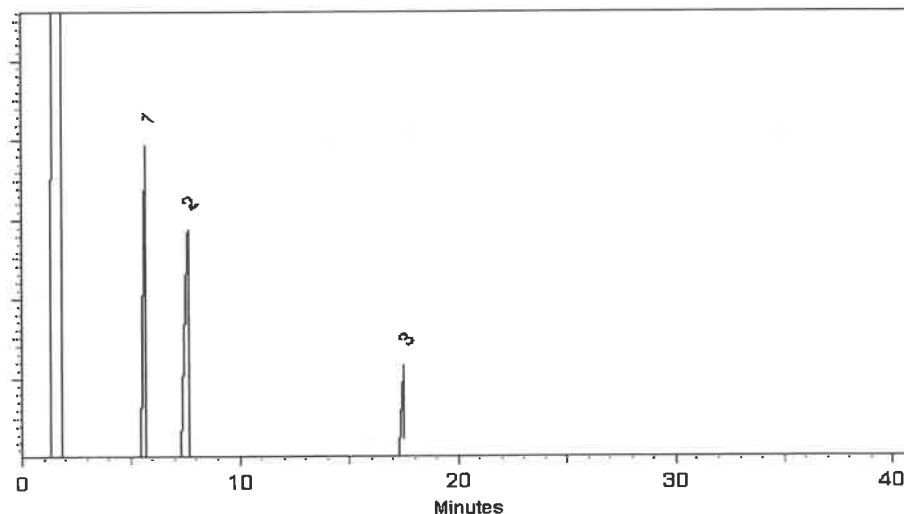
FID

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

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

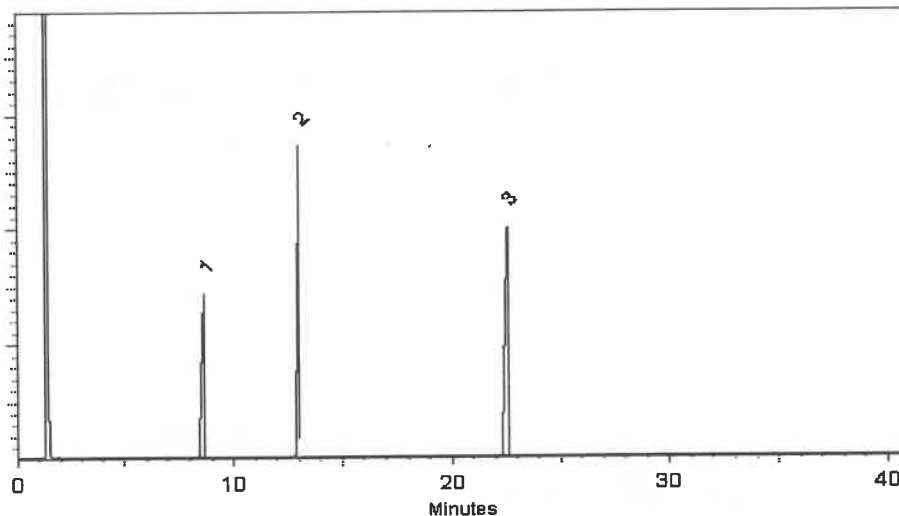
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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

Page 3 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
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

Page 4 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
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

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

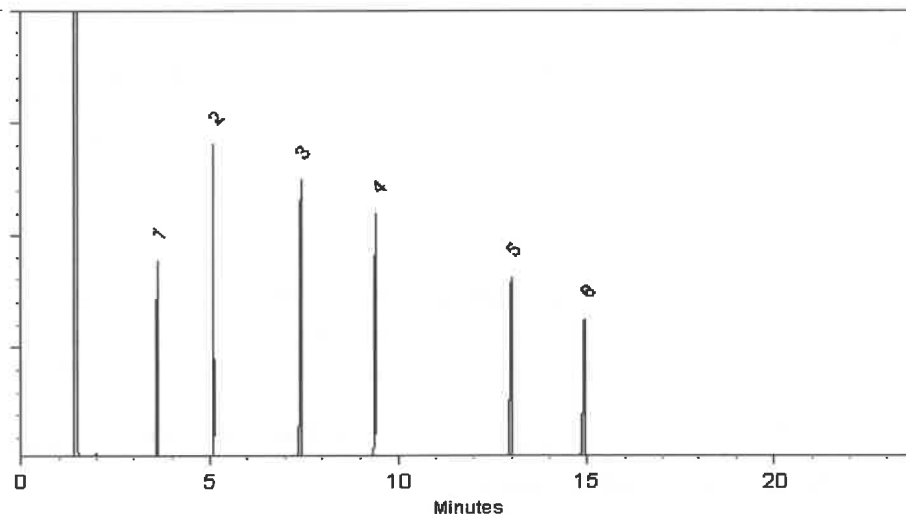
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.
- 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. : 31615 **Lot No.:** A0212955
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 : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577
↓
S12579 } RC
8/2/24

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.)

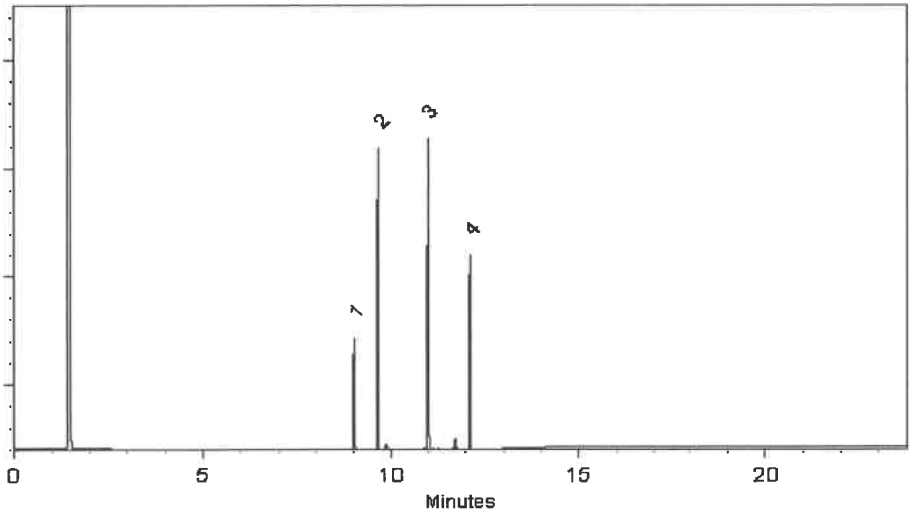
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

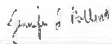
Inj. Vol
1µl



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.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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
(800)878-7654 Toll Free
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

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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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.:** 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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CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number:

Q1773

COC Number:

CLIENT INFORMATION

PROJECT INFORMATION

BILLING INFORMATION

COMPANY: Tetra Tech

ADDRESS: 4433 Corporation Ln., Suite 300

CITY: Virginia Beach

STATE: VA

ZIP: 23462

ATTENTION: Ernie Wu

PHONE: 757-466-4901

FAX: 757-461-4148

PROJECT NAME: NWIRP Bethpage

PROJECT #: 112G08005-WE13 LOCATION: TT-190

PROJECT MANAGER: Ernie Wu

E-MAIL: ernie.wu@tetratech.com

PHONE: 757-466-4901

FAX: 757-461-4148

BILL TO: SEE CONTRACT

PO#

ADDRESS:

CITY:

STATE: ZIP:

ATTENTION:

PHONE:

ANALYSIS

VOC(8260)
1,4-dioxane (8270-SIM)

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PRESERVATIVES

COMMENTS

FAX: Standard DAYS*

HARD COPY: Standard DAYS*

EDD Standard DAYS*

* TO BE APPROVED BY CHEMTECH

STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

☐ RESULTS ONLY☐ USEPA CLP☐ RESULTS + QC☐ New York State ASP "B"☐ New Jersey REDUCED☐ New York State ASP "A"☐ New Jersey CLP☐ Other _____☐ EDD Format _____CHEMTECH
SAMPLE
IDPROJECT
SAMPLE IDENTIFICATIONSAMPLE
MATRIXSAMPLE
TYPESAMPLE
COLLECTION

of Bottles

COMP

GRAB

DATE

TIME

A

1

2

3

4

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9

<-- Specify Preservatives

A-HCl B-HNO3

C-H2SO4 D-NaOH

E-ICE F-Other

1. BP-TB-20250407 QA

2. BP-TT-190D2-GW-20250407 AQ

3. BP-TT-190D1-GW-20250409 AQ

4.

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10.

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER

DATE/TIME

RECEIVED BY

1. *[Signature]*4/9/25
14:001. *[Signature]*

RELINQUISHED BY

DATE/TIME

RECEIVED BY

2. FedEx

4-10-25
09502. *[Signature]*

RELINQUISHED BY

DATE/TIME

RECEIVED FOR LAB BY

3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2-3°C
MeOH extraction requires an additional 4oz. Jar for percent solid

Comments: For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list

☐ Ice in Cooler?: Y

(Adjust Final +1)

JL GUN #1

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ OvernightCHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete

☐ YES ☐ NO

Page 1 of 1

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT

YELLOW - CHEMTECH COPY

PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1773	TETR06	Order Date : 4/10/2025 10:14:00 AM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : CTO WE13	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 4/10/2025 9:50:00 AM	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
Q1773-01	BP-TB-20250407	Water	04/07/2025	09:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1773-02	~~BP-TT190D2-GW-20250407~~ BP-TT190D2-GW-20250407	Water	04/07/2025	11:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1773-03	~~BP-TT190D1-GW-20250409~~ BP-TT190D1-GW-20250409	Water	~~04/07/2025~~ 04/09/2025	10:30					
					VOCMS Group1		8260-Low	10 Bus. Days	

YG 04/15/2025

Relinquished By :

Date / Time : 4/10/25 11:20

Received By :

Date / Time : 4-10-25 11:20

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036873.D
 Acq On : 11 Apr 2025 11:42
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Apr 11 15:34:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 15:32:59 2025
 Response via : Initial Calibration

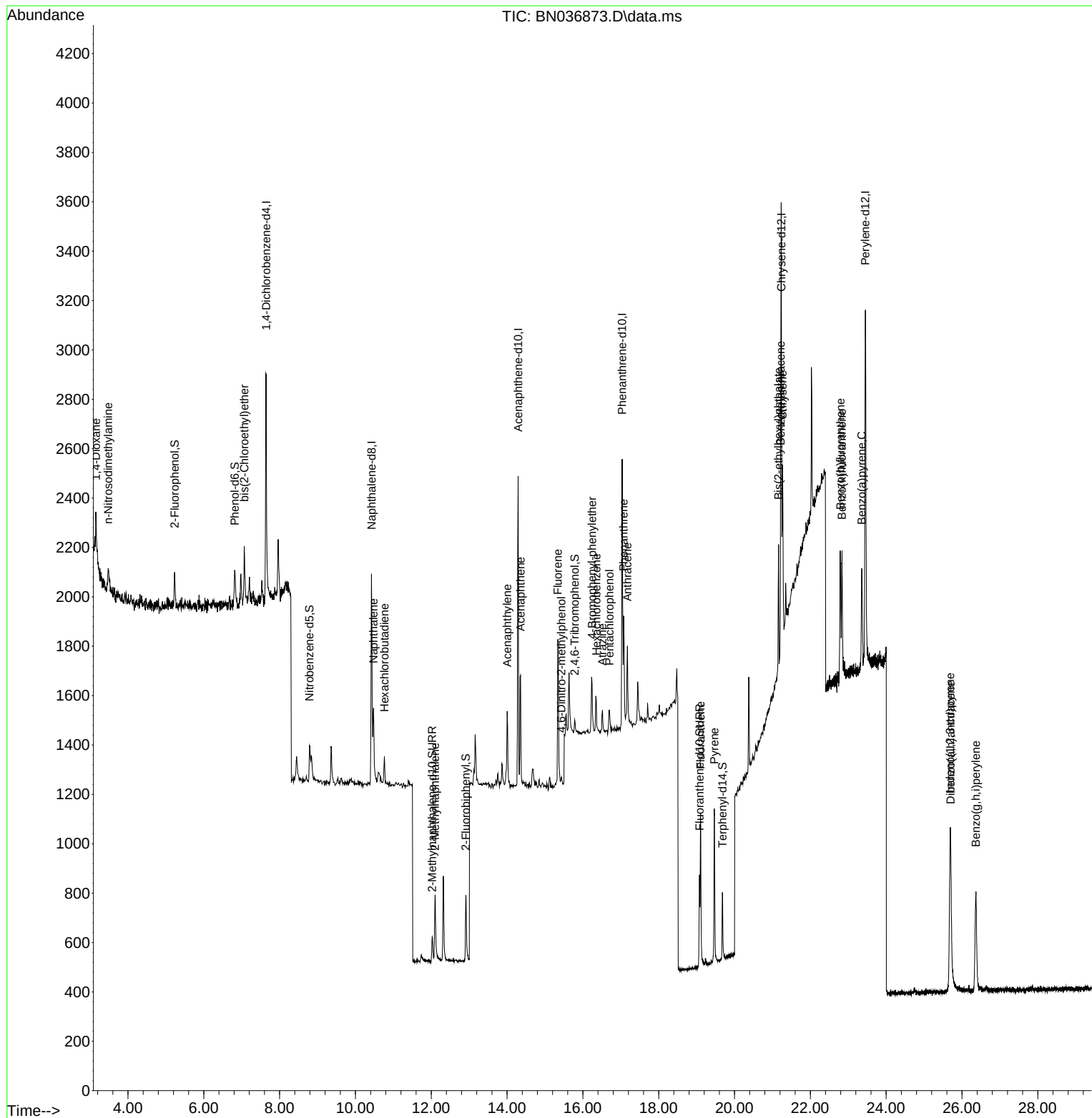
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.645	152	496	0.400	ng	0.00
7) Naphthalene-d8	10.424	136	1266	0.400	ng	# 0.00
13) Acenaphthene-d10	14.291	164	727	0.400	ng	0.00
19) Phenanthrene-d10	17.037	188	1622	0.400	ng	0.00
29) Chrysene-d12	21.232	240	1643	0.400	ng	0.00
35) Perylene-d12	23.452	264	2037	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.233	112	124	0.105	ng	0.00
5) Phenol-d6	6.814	99	163	0.109	ng	0.00
8) Nitrobenzene-d5	8.790	82	182	0.128	ng	0.00
11) 2-Methylnaphthalene-d10	12.025	152	190	0.103	ng	0.00
14) 2,4,6-Tribromophenol	15.783	330	39	0.111	ng	0.00
15) 2-Fluorobiphenyl	12.912	172	375	0.107	ng	0.00
27) Fluoranthene-d10	19.076	212	446	0.098	ng	0.00
31) Terphenyl-d14	19.680	244	305	0.097	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.160	88	98	0.167	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.478	42	127	0.098	ng	# 68
6) bis(2-Chloroethyl)ether	7.067	93	183	0.123	ng	# 88
9) Naphthalene	10.477	128	423	0.115	ng	# 75
10) Hexachlorobutadiene	10.765	225	95	0.113	ng	# 91
12) 2-Methylnaphthalene	12.101	142	254	0.108	ng	# 93
16) Acenaphthylene	14.003	152	356	0.105	ng	# 96
17) Acenaphthene	14.356	154	223	0.101	ng	# 98
18) Fluorene	15.339	166	308	0.101	ng	# 98
20) 4,6-Dinitro-2-methylph...	15.435	198	33	0.087	ng	# 18
21) 4-Bromophenyl-phenylether	16.243	248	97	0.099	ng	# 91
22) Hexachlorobenzene	16.354	284	125	0.107	ng	# 95
23) Atrazine	16.516	200	96	0.100	ng	# 68
24) Pentachlorophenol	16.702	266	62	0.103	ng	# 85
25) Phenanthrene	17.074	178	500	0.103	ng	# 99
26) Anthracene	17.173	178	419	0.097	ng	# 98
28) Fluoranthene	19.104	202	587	0.097	ng	# 98
30) Pyrene	19.466	202	611	0.098	ng	# 99
32) Benzo(a)anthracene	21.214	228	559	0.097	ng	# 83
33) Chrysene	21.268	228	590	0.092	ng	# 89
34) Bis(2-ethylhexyl)phtha...	21.161	149	495	0.113	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.686	276	907	0.093	ng	# 88
37) Benzo(b)fluoranthene	22.791	252	699	0.097	ng	# 54
38) Benzo(k)fluoranthene	22.832	252	630	0.087	ng	# 53
39) Benzo(a)pyrene	23.356	252	571	0.091	ng	# 53
40) Dibenzo(a,h)anthracene	25.703	278	678	0.088	ng	# 54
41) Benzo(g,h,i)perylene	26.367	276	838	0.096	ng	# 80

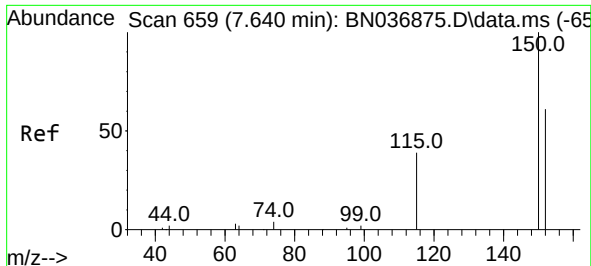
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036873.D
Acq On : 11 Apr 2025 11:42
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Apr 11 15:34:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 15:32:59 2025
Response via : Initial Calibration

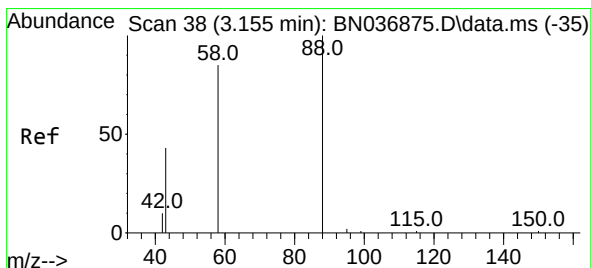
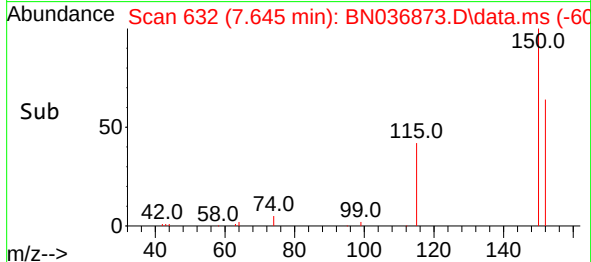
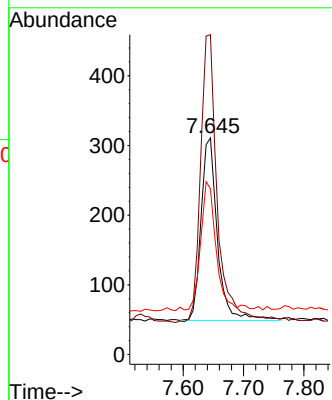
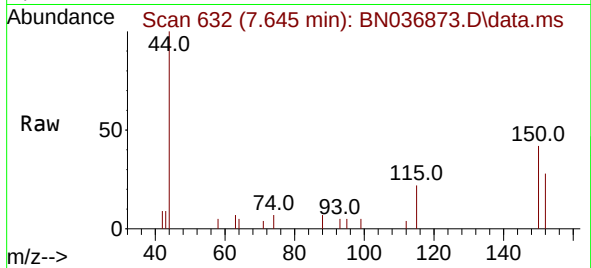




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.645 min Scan# 61
 Delta R.T. 0.005 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

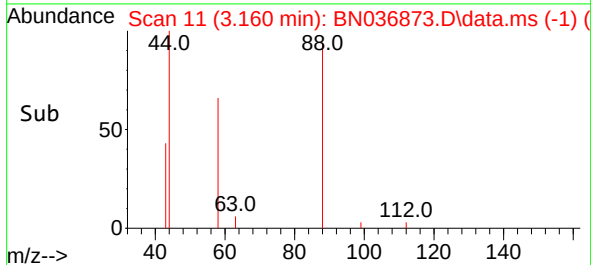
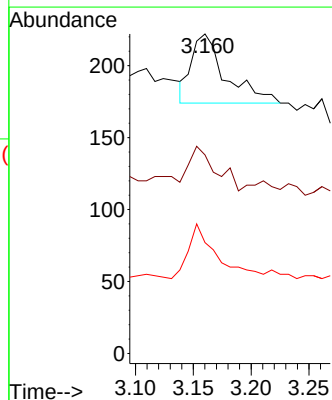
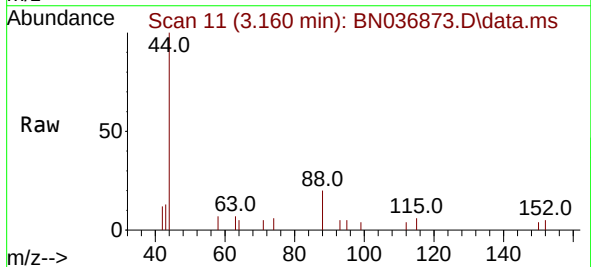
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

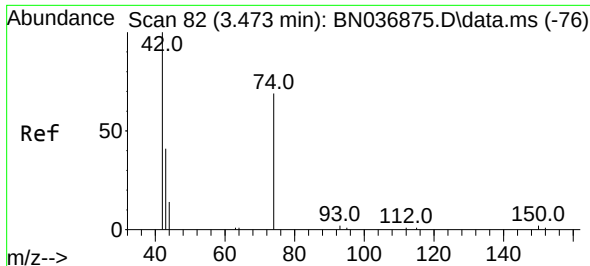
Tgt Ion:152 Resp: 496
 Ion Ratio Lower Upper
 152 100
 150 147.6 123.0 184.6
 115 76.5 60.1 90.1



#2
 1,4-Dioxane
 Concen: 0.167 ng
 RT: 3.160 min Scan# 11
 Delta R.T. 0.005 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

Tgt Ion: 88 Resp: 98
 Ion Ratio Lower Upper
 88 100
 43 49.0 39.2 58.8
 58 66.3 63.5 95.3

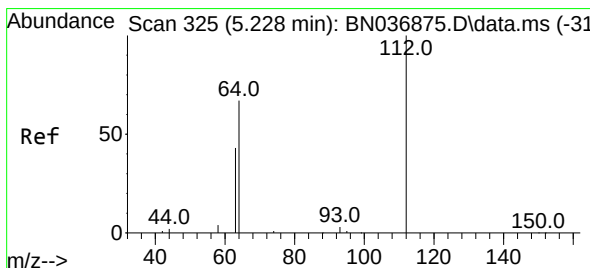
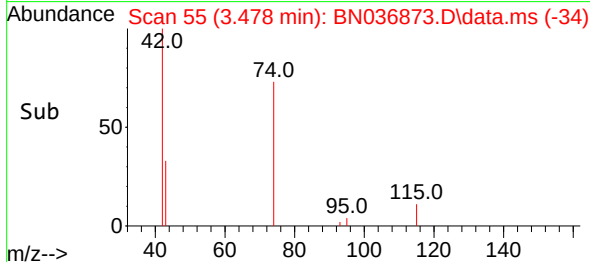
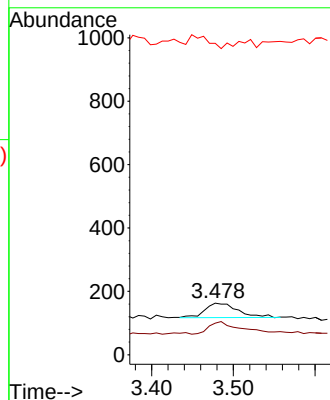
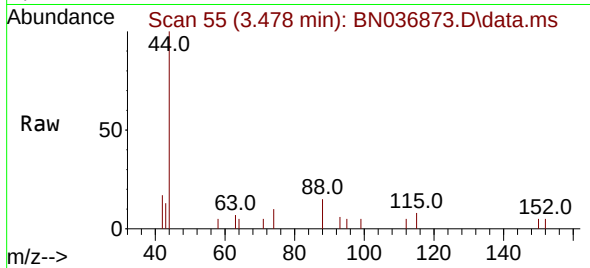




#3
n-Nitrosodimethylamine
Concen: 0.098 ng
RT: 3.478 min Scan# 51
Delta R.T. 0.005 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

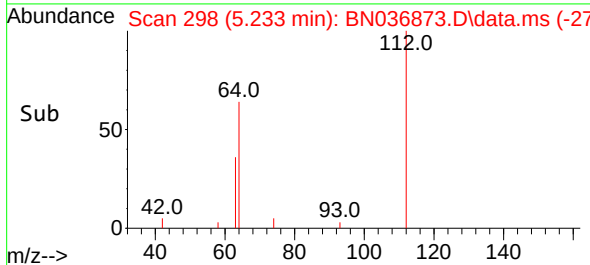
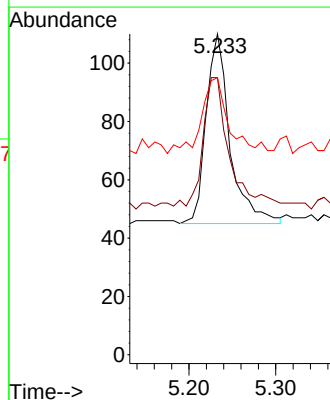
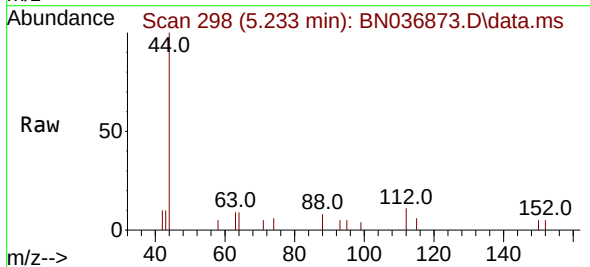
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

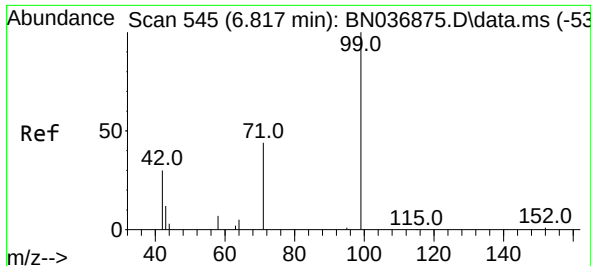
Tgt Ion: 42 Resp: 127
Ion Ratio Lower Upper
42 100
74 94.5 54.6 81.8#
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.105 ng
RT: 5.233 min Scan# 298
Delta R.T. 0.005 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion: 112 Resp: 124
Ion Ratio Lower Upper
112 100
64 81.5 54.0 81.0#
63 46.0 35.1 52.7

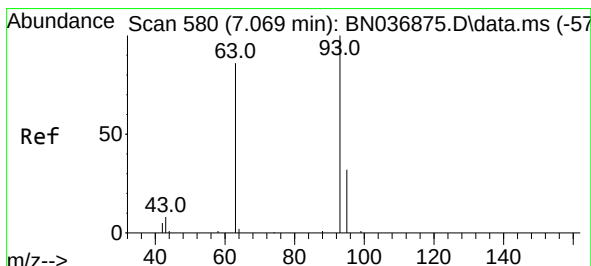
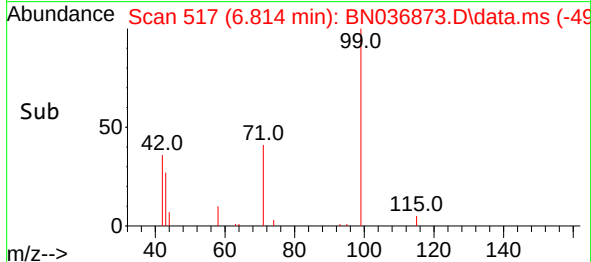
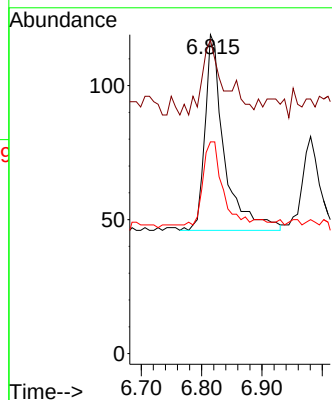
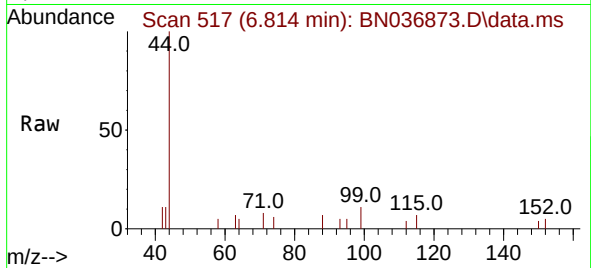




#5
Phenol-d6
Concen: 0.109 ng
RT: 6.814 min Scan# 517
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

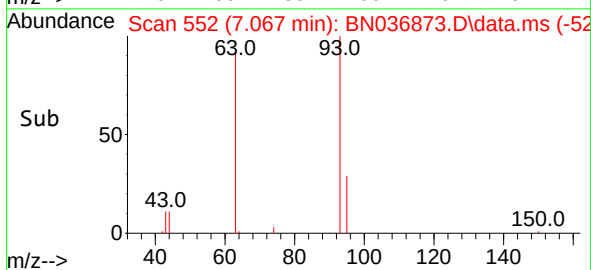
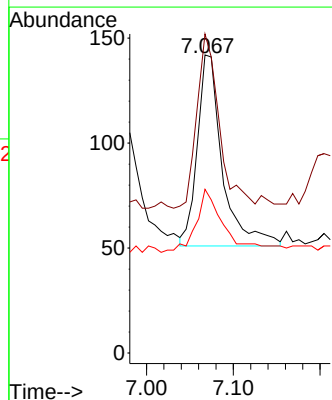
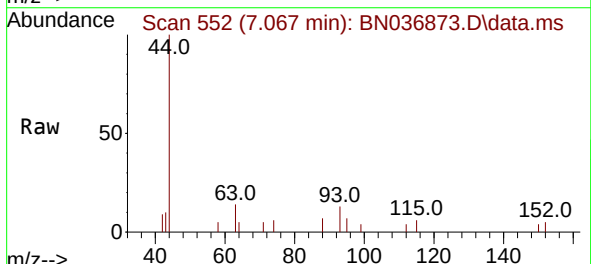
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

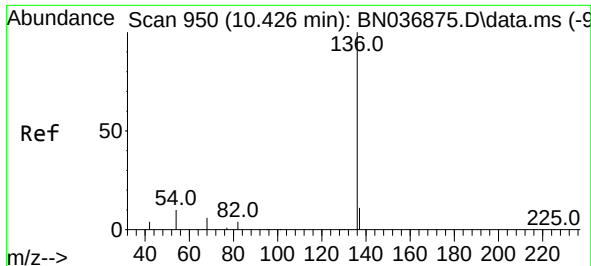
Tgt Ion: 99 Resp: 163
Ion Ratio Lower Upper
99 100
42 35.0 30.9 46.3
71 41.7 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.123 ng
RT: 7.067 min Scan# 552
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion: 93 Resp: 183
Ion Ratio Lower Upper
93 100
63 83.1 76.4 114.6
95 37.7 26.1 39.1

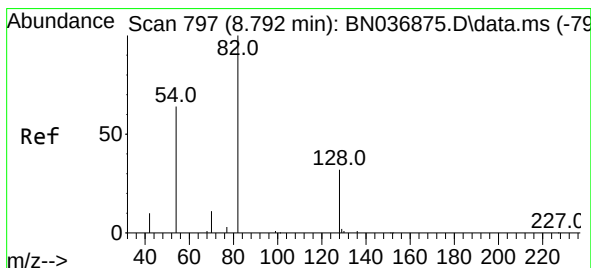
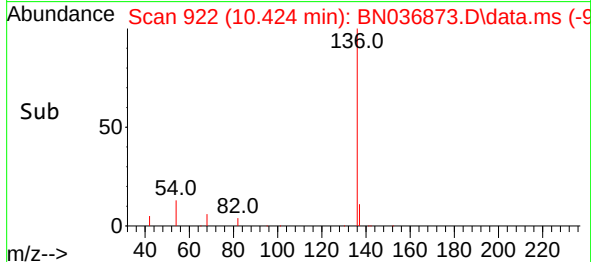
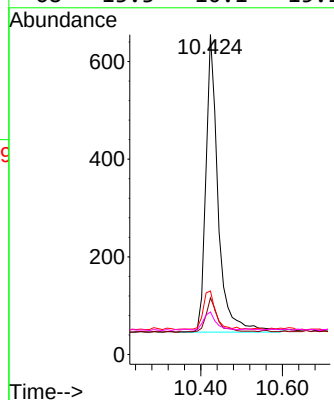
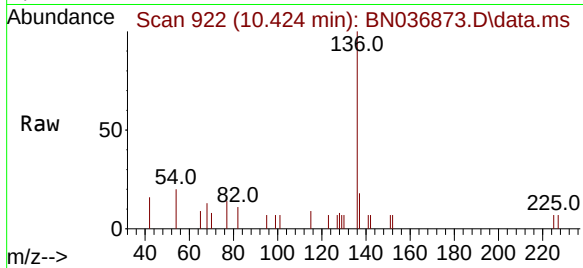




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.424 min Scan# 91
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

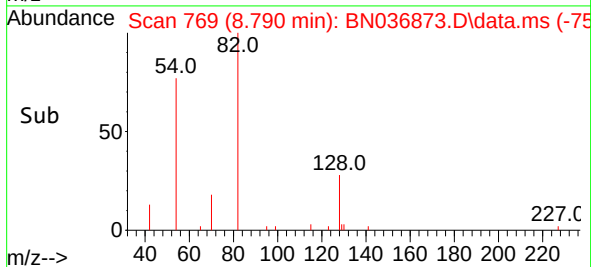
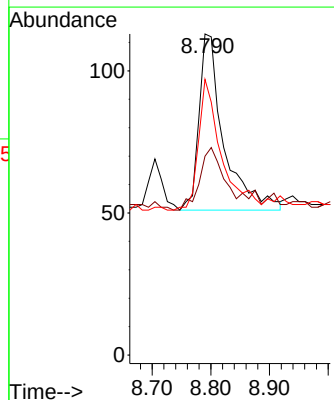
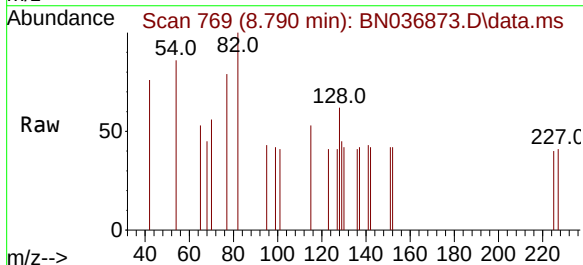
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

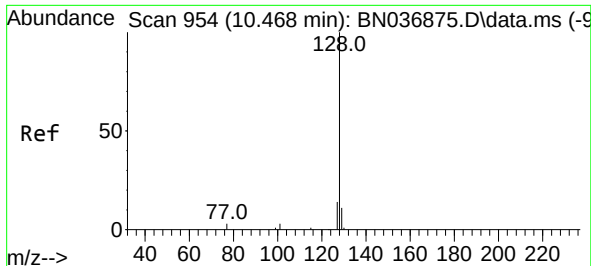
Tgt Ion:	136	Resp:	1266
Ion	Ratio	Lower	Upper
136	100		
137	17.7	13.5	20.3
54	19.8	12.8	19.2#
68	13.3	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.128 ng
RT: 8.790 min Scan# 769
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:	82	Resp:	182
Ion	Ratio	Lower	Upper
82	100		
128	61.9	35.5	53.3#
54	85.8	56.2	84.4#

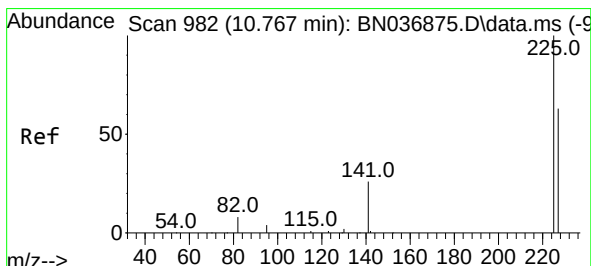
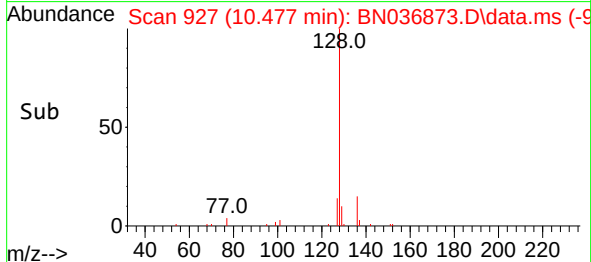
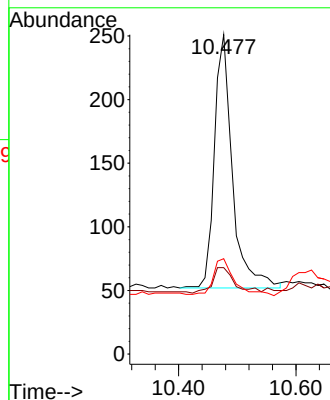
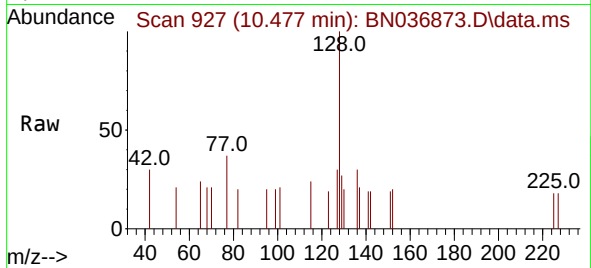




#9
Naphthalene
Concen: 0.115 ng
RT: 10.477 min Scan# 91
Delta R.T. 0.009 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

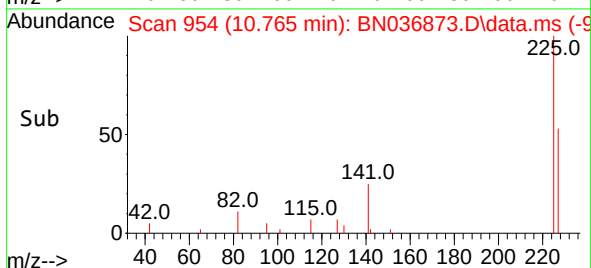
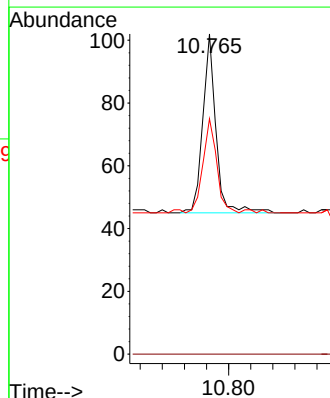
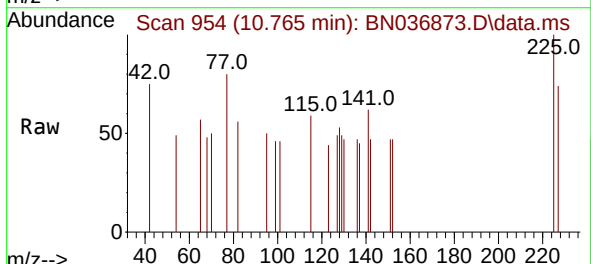
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

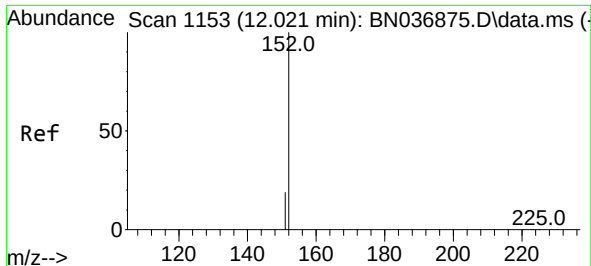
Tgt Ion:	128	Resp:	423
Ion	Ratio	Lower	Upper
128	100		
129	27.1	12.9	19.3#
127	29.9	15.0	22.6#



#10
Hexachlorobutadiene
Concen: 0.113 ng
RT: 10.765 min Scan# 954
Delta R.T. -0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:	225	Resp:	95
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	55.8	50.5	75.7

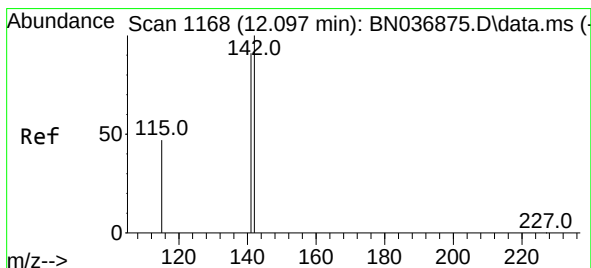
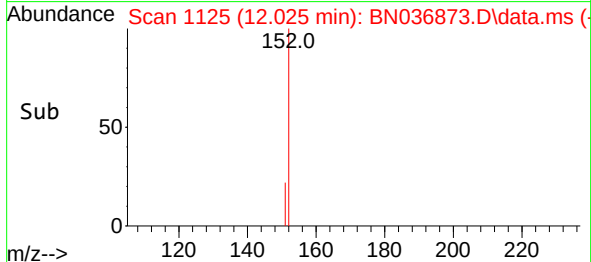
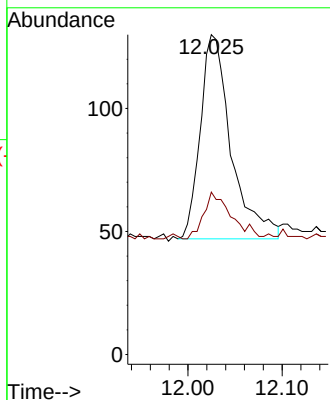
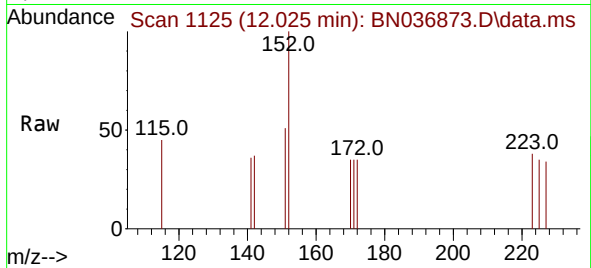




#11
2-Methylnaphthalene-d10
Concen: 0.103 ng
RT: 12.025 min Scan# 1153
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

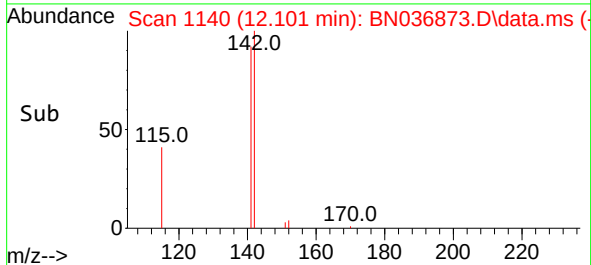
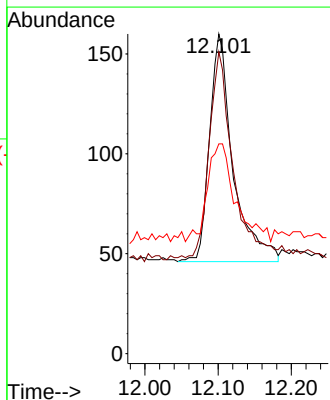
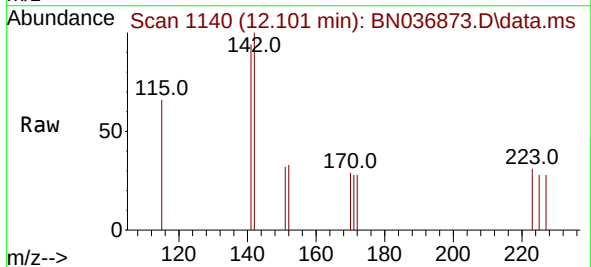
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

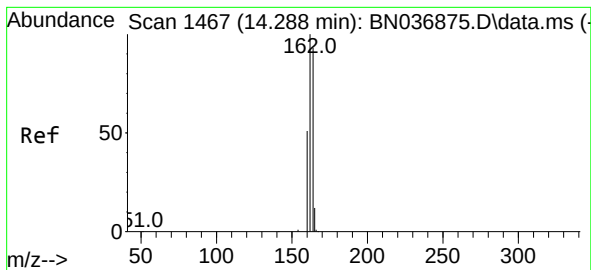
Tgt Ion:152 Resp: 190
Ion Ratio Lower Upper
152 100
151 20.5 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.108 ng
RT: 12.101 min Scan# 1140
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:142 Resp: 254
Ion Ratio Lower Upper
142 100
141 94.4 73.8 110.8
115 65.6 43.3 64.9#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.291 min Scan# 14

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

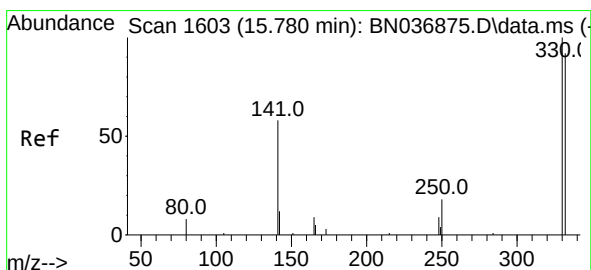
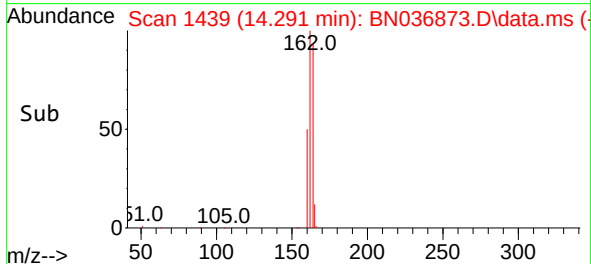
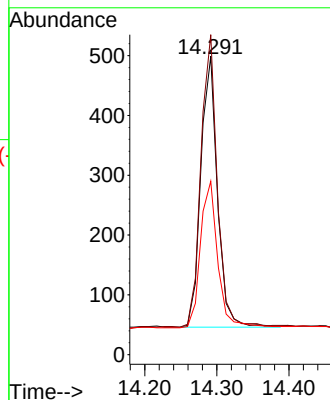
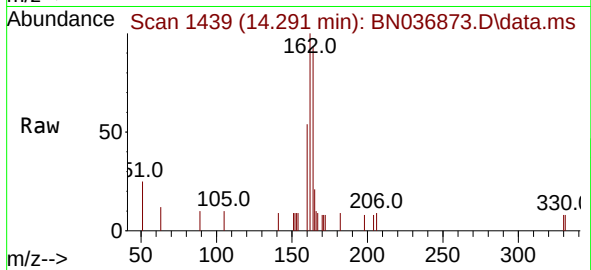
Tgt Ion:164 Resp: 727

Ion Ratio Lower Upper

164 100

162 107.2 85.7 128.5

160 58.1 46.9 70.3



#14

2,4,6-Tribromophenol

Concen: 0.111 ng

RT: 15.783 min Scan# 1575

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

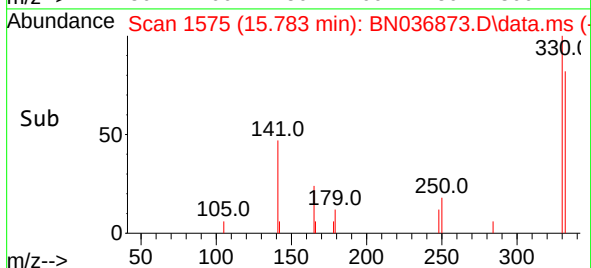
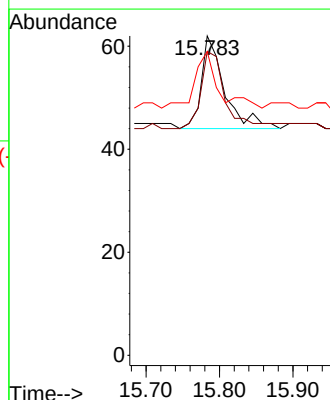
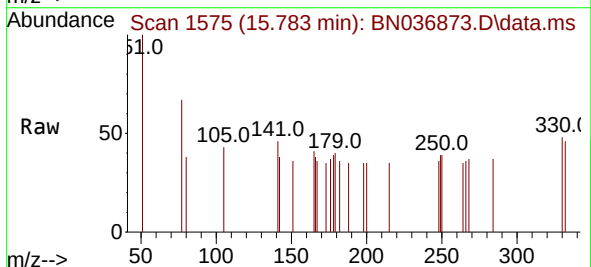
Tgt Ion:330 Resp: 39

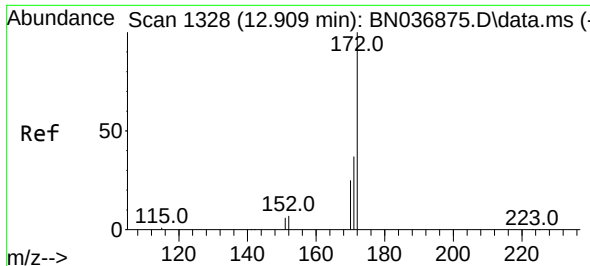
Ion Ratio Lower Upper

330 100

332 87.2 87.0 130.6

141 61.5 45.3 67.9

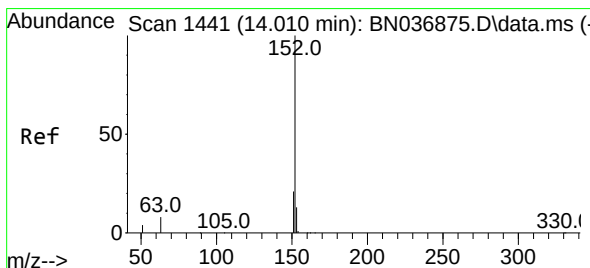
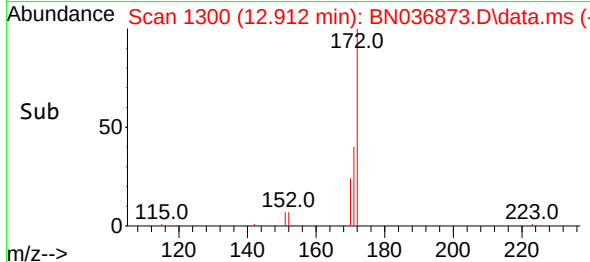
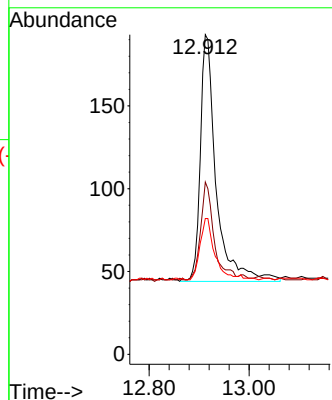
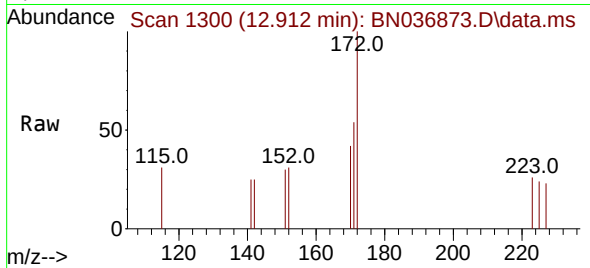




#15
2-Fluorobiphenyl
Concen: 0.107 ng
RT: 12.912 min Scan# 1412
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

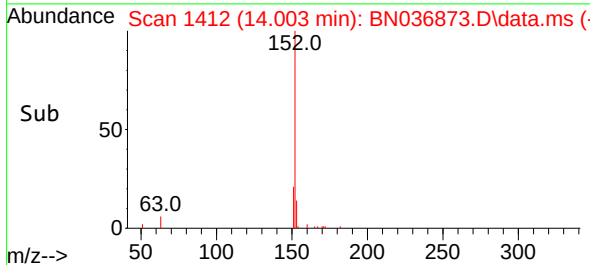
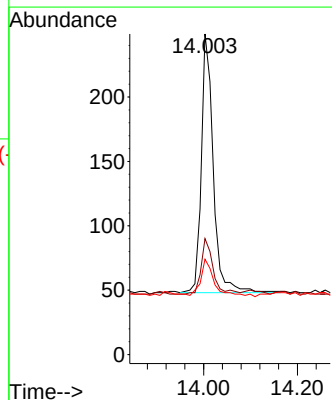
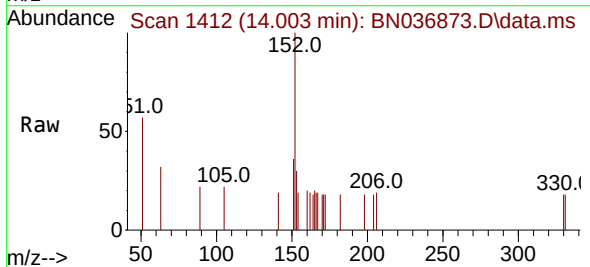
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

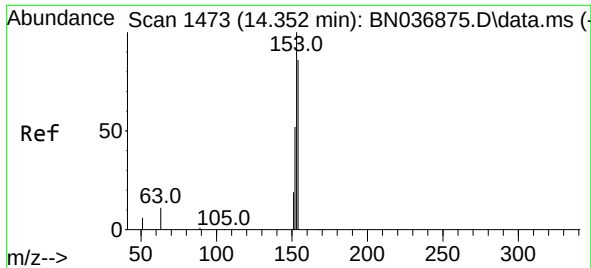
Tgt Ion:172 Resp: 375
Ion Ratio Lower Upper
172 100
171 53.9 32.7 49.1#
170 42.5 23.3 34.9#



#16
Acenaphthylene
Concen: 0.105 ng
RT: 14.003 min Scan# 1412
Delta R.T. -0.007 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:152 Resp: 356
Ion Ratio Lower Upper
152 100
151 21.1 16.4 24.6
153 16.6 10.3 15.5#

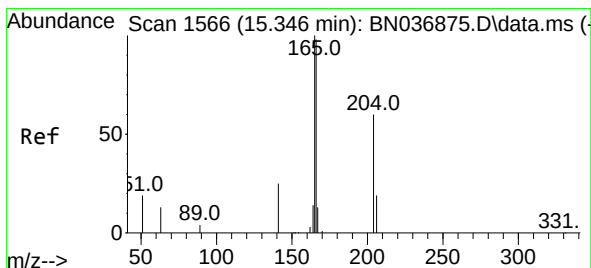
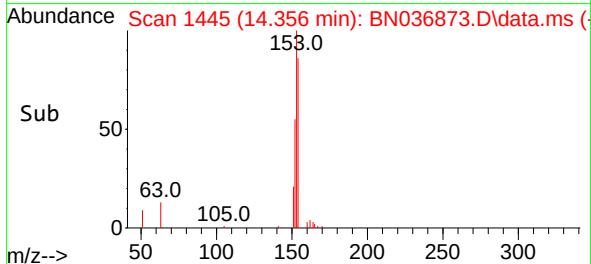
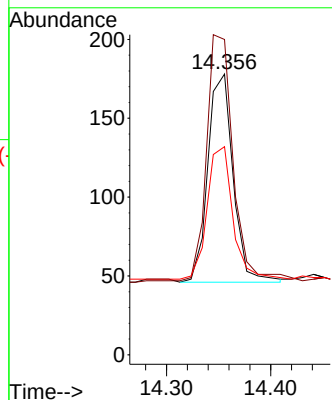
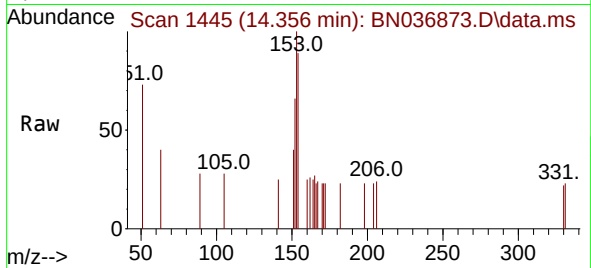




#17
Acenaphthene
Concen: 0.101 ng
RT: 14.356 min Scan# 1473
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

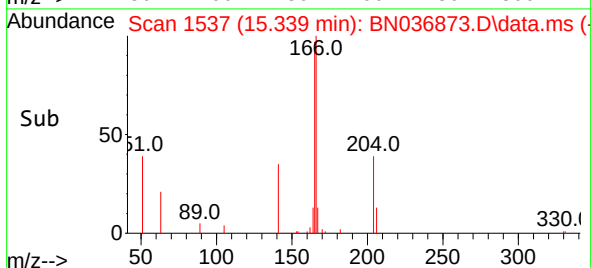
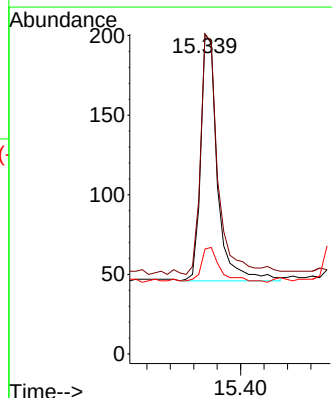
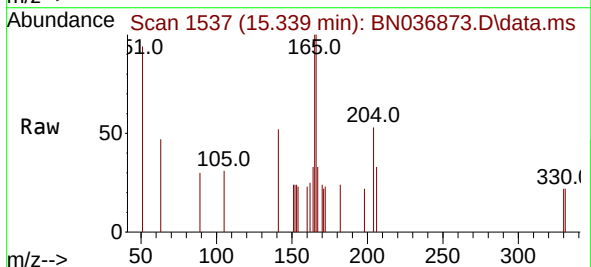
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

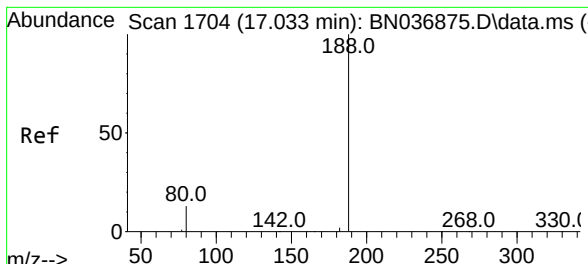
Tgt Ion:154 Resp: 223
Ion Ratio Lower Upper
154 100
153 124.7 97.8 146.6
152 64.1 52.7 79.1



#18
Fluorene
Concen: 0.101 ng
RT: 15.339 min Scan# 1537
Delta R.T. -0.007 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:166 Resp: 308
Ion Ratio Lower Upper
166 100
165 102.6 83.2 124.8
167 16.6 11.1 16.7

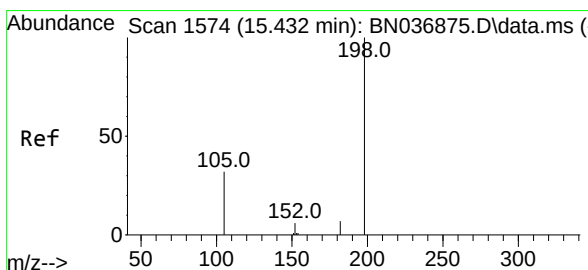
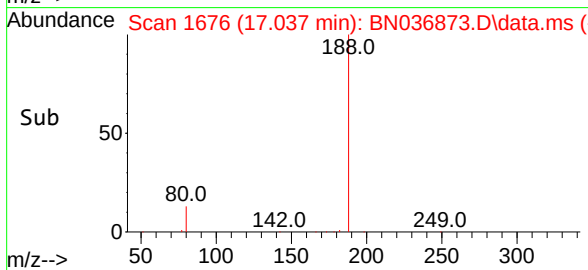
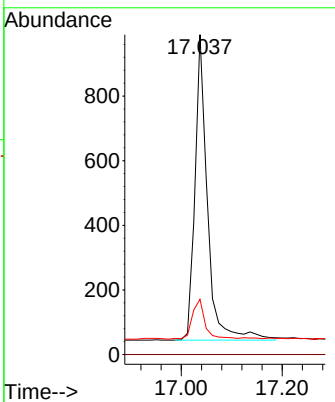
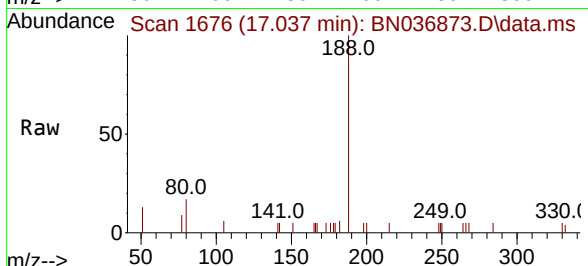




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.037 min Scan# 1
 Delta R.T. 0.004 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

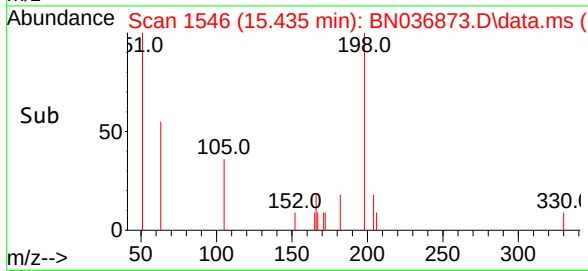
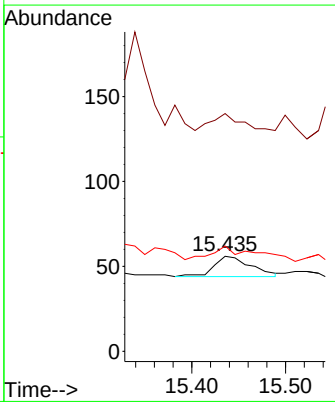
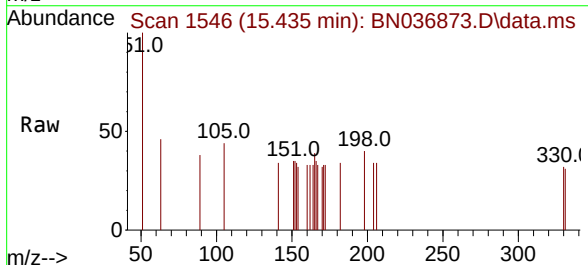
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

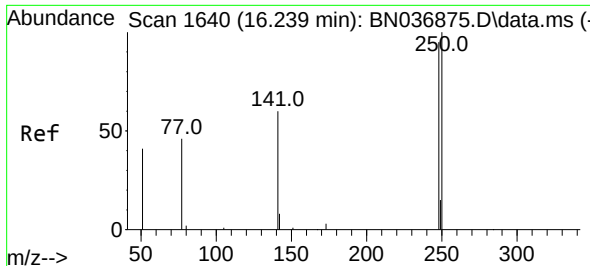
Tgt Ion:	188	Resp:	1622
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	17.3	13.9	20.9



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.087 ng
 RT: 15.435 min Scan# 1546
 Delta R.T. 0.004 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

Tgt Ion:	198	Resp:	33
Ion Ratio	Lower	Upper	
198	100		
51	250.0	107.6	161.4#
105	110.7	55.2	82.8#

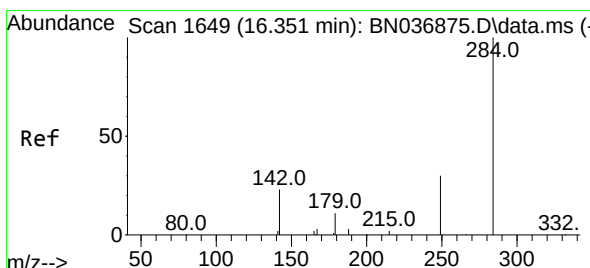
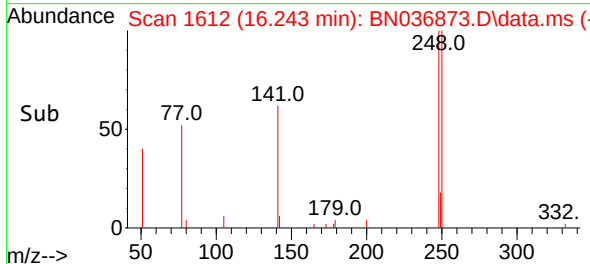
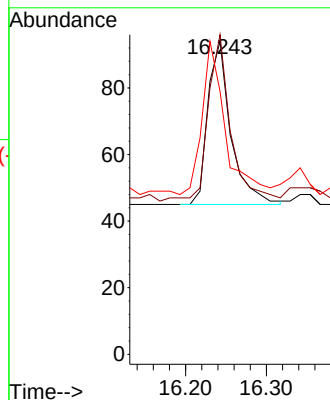
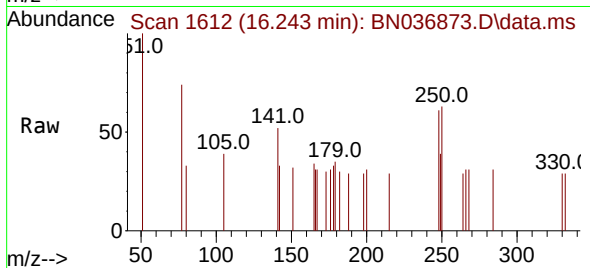




#21
4-Bromophenyl-phenylether
Concen: 0.099 ng
RT: 16.243 min Scan# 1612
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

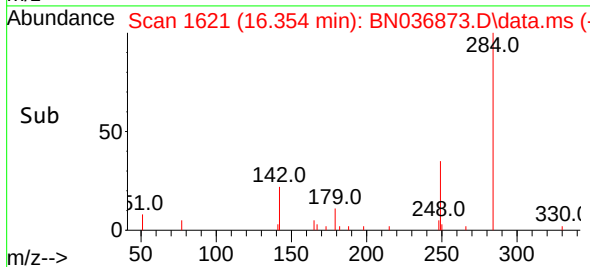
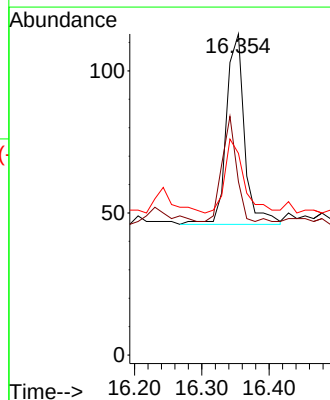
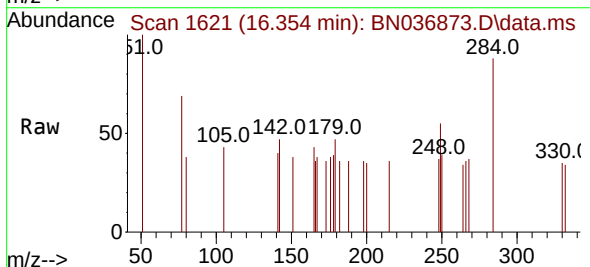
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

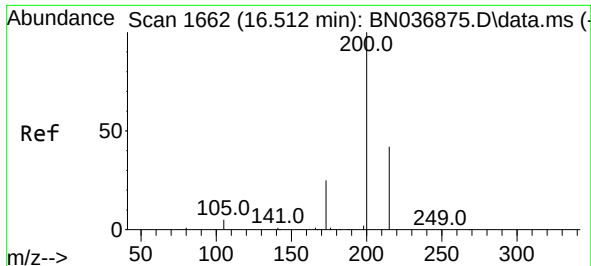
Tgt Ion:248 Resp: 97
Ion Ratio Lower Upper
248 100
250 102.1 83.5 125.3
141 84.0 55.3 82.9#



#22
Hexachlorobenzene
Concen: 0.107 ng
RT: 16.354 min Scan# 1621
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:284 Resp: 125
Ion Ratio Lower Upper
284 100
142 49.6 37.7 56.5
249 40.8 29.0 43.6

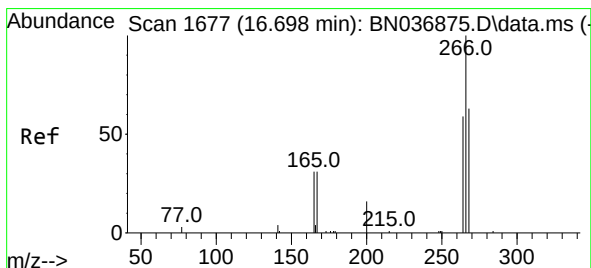
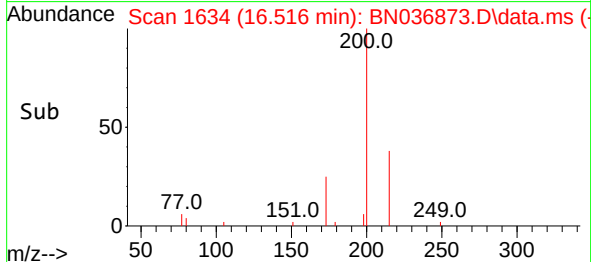
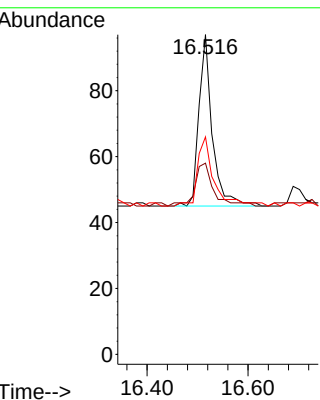
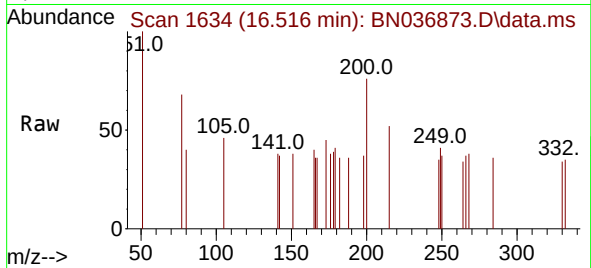




#23
 Atrazine
 Concen: 0.100 ng
 RT: 16.516 min Scan# 1649
 Delta R.T. 0.004 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

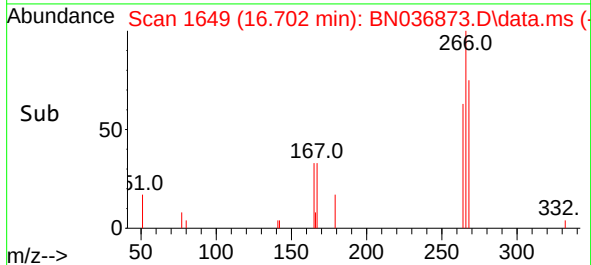
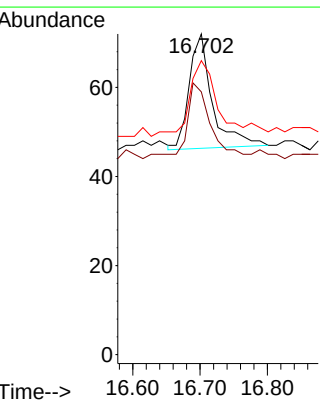
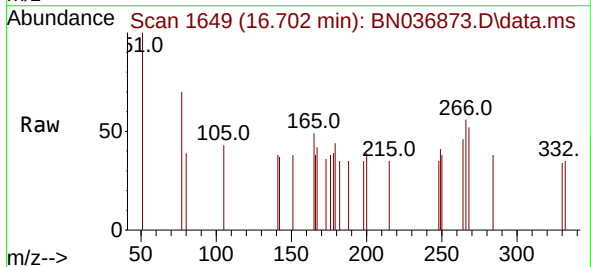
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

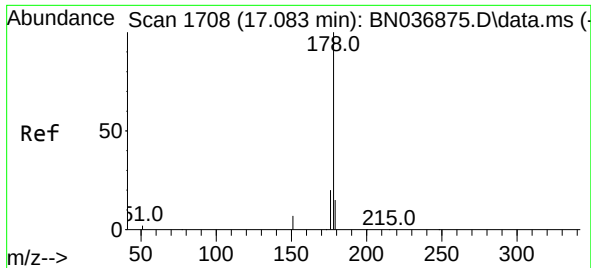
Tgt Ion:200 Resp: 96
 Ion Ratio Lower Upper
 200 100
 173 59.8 28.6 43.0#
 215 68.0 40.5 60.7#



#24
 Pentachlorophenol
 Concen: 0.103 ng
 RT: 16.702 min Scan# 1649
 Delta R.T. 0.004 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

Tgt Ion:266 Resp: 62
 Ion Ratio Lower Upper
 266 100
 264 69.4 44.6 66.8#
 268 74.2 51.8 77.6

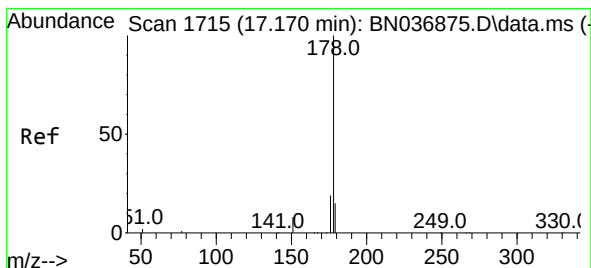
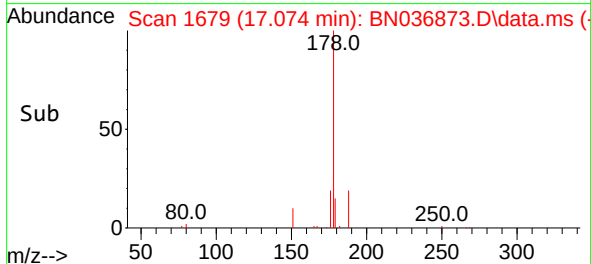
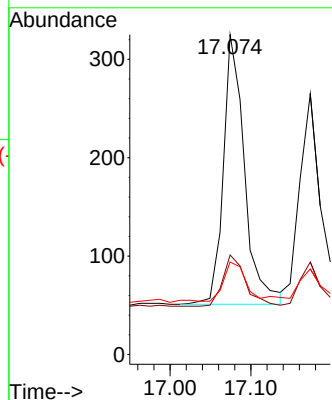
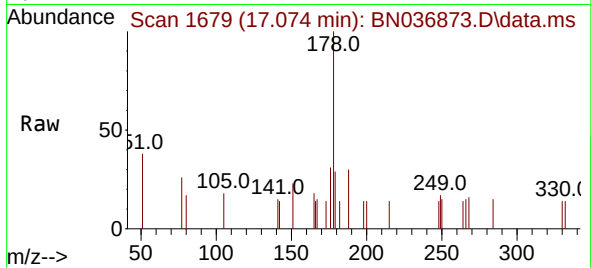




#25
Phenanthrene
Concen: 0.103 ng
RT: 17.074 min Scan# 1687
Delta R.T. -0.009 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

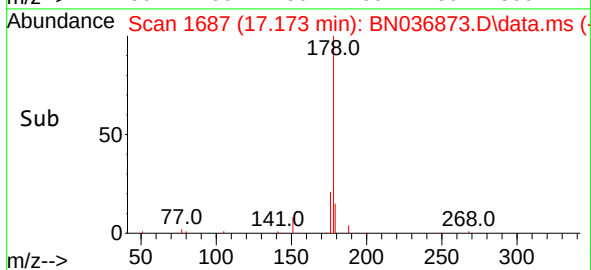
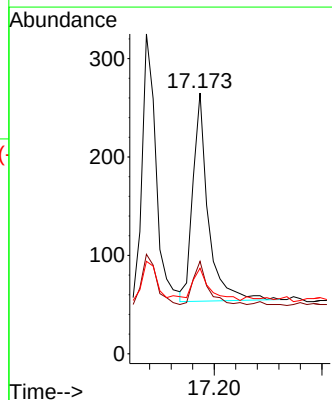
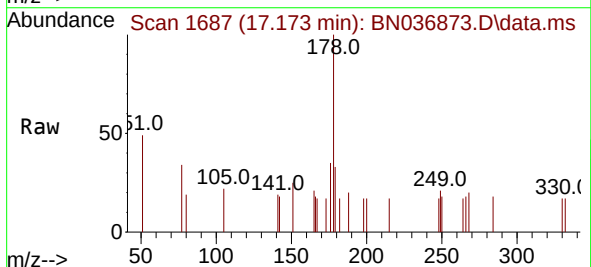
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

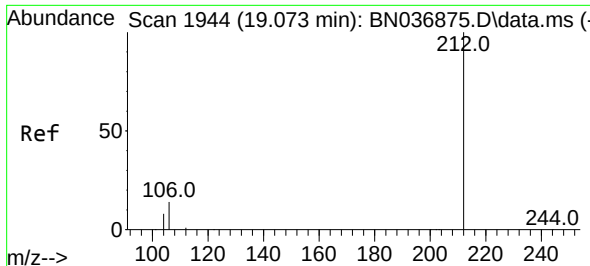
Tgt Ion:178	Resp:	500
Ion	Ratio	Lower Upper
178	100	
176	20.2	16.6 25.0
179	16.0	12.8 19.2



#26
Anthracene
Concen: 0.097 ng
RT: 17.173 min Scan# 1687
Delta R.T. 0.004 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:178	Resp:	419
Ion	Ratio	Lower Upper
178	100	
176	20.5	15.8 23.6
179	16.7	12.6 18.8





#27

Fluoranthene-d10

Concen: 0.098 ng

RT: 19.076 min Scan# 1916

Delta R.T. 0.004 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

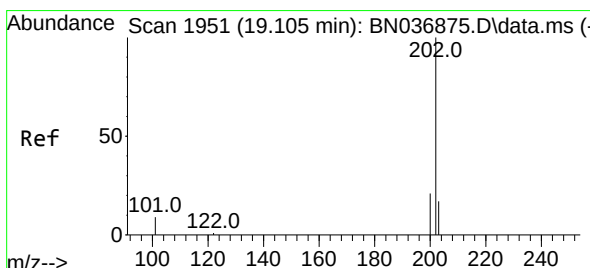
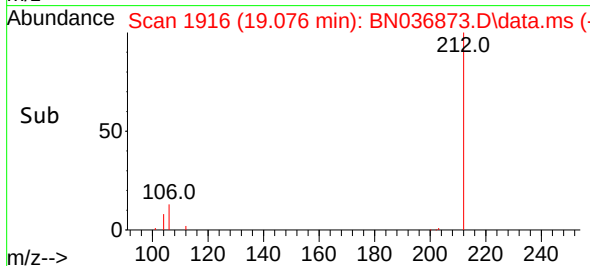
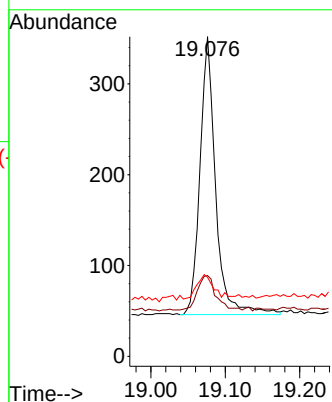
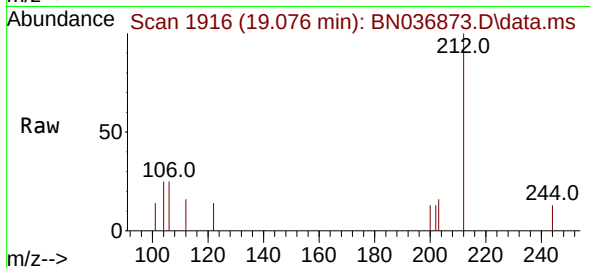
Tgt Ion:212 Resp: 446

Ion Ratio Lower Upper

212 100

106 14.8 11.2 16.8

104 9.6 7.5 11.3



#28

Fluoranthene

Concen: 0.097 ng

RT: 19.104 min Scan# 1922

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

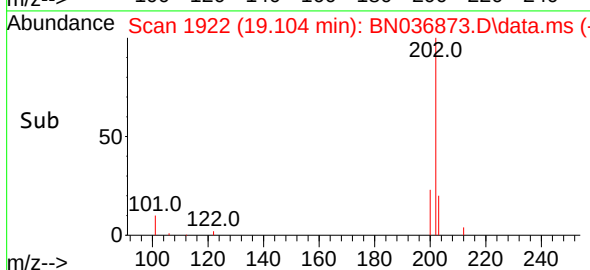
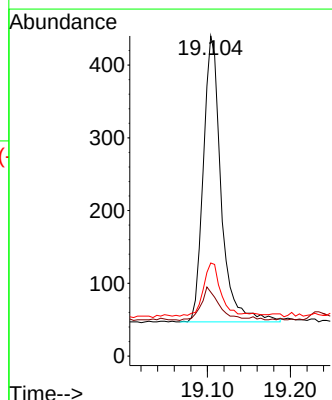
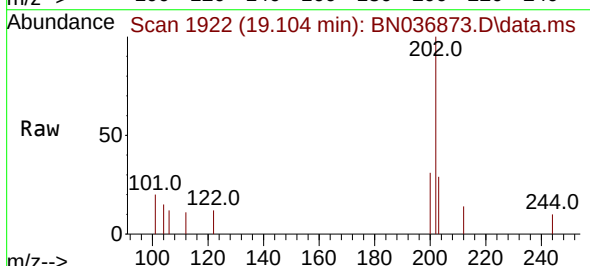
Tgt Ion:202 Resp: 587

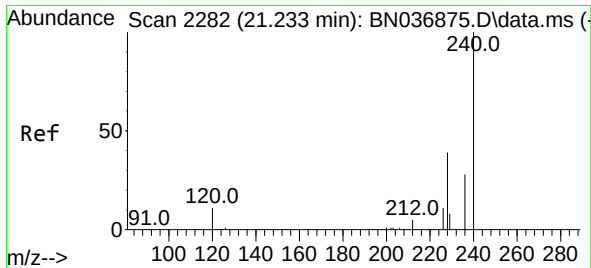
Ion Ratio Lower Upper

202 100

101 11.8 8.5 12.7

203 17.9 13.8 20.6

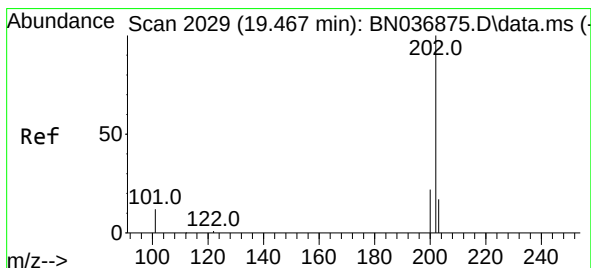
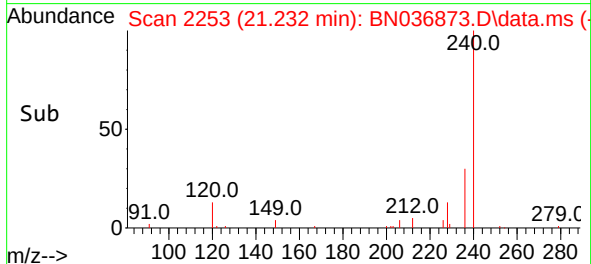
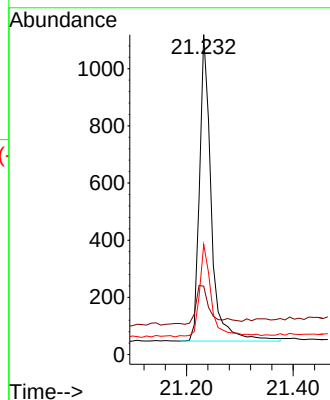
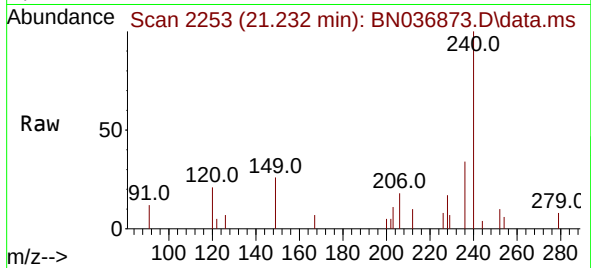




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.232 min Scan# 21
Delta R.T. -0.001 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

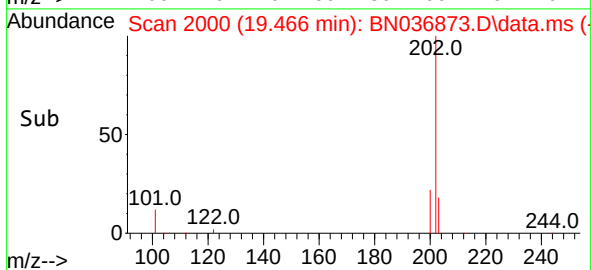
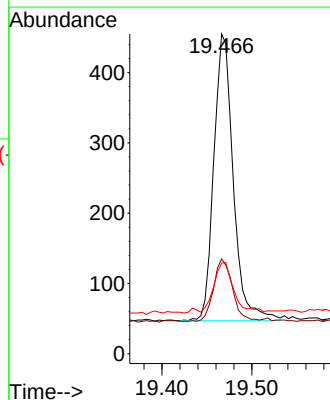
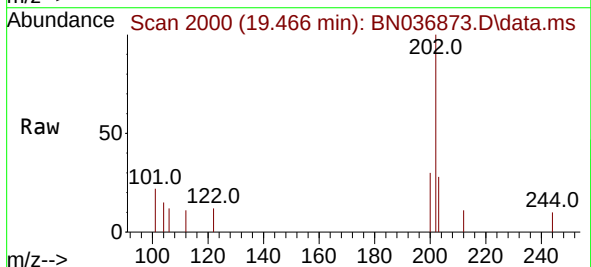
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

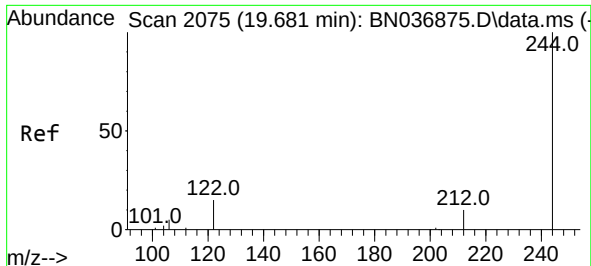
Tgt Ion:240 Resp: 1643
Ion Ratio Lower Upper
240 100
120 21.4 15.8 23.6
236 34.4 25.8 38.8



#30
Pyrene
Concen: 0.098 ng
RT: 19.466 min Scan# 2000
Delta R.T. -0.001 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:202 Resp: 611
Ion Ratio Lower Upper
202 100
200 21.1 17.1 25.7
203 17.2 14.5 21.7

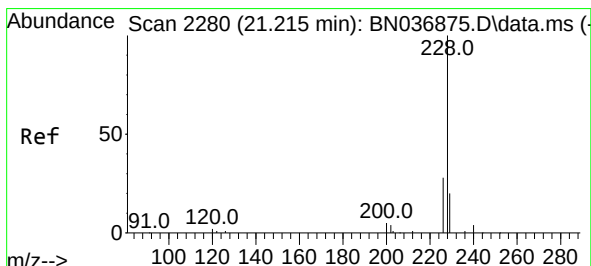
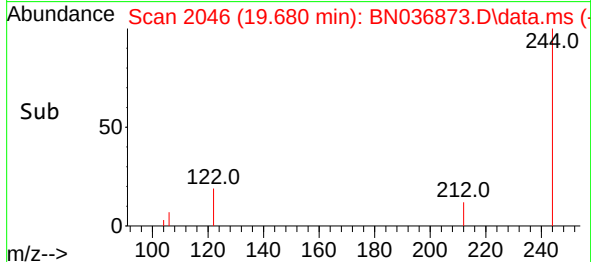
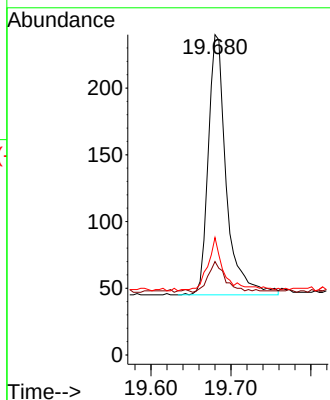
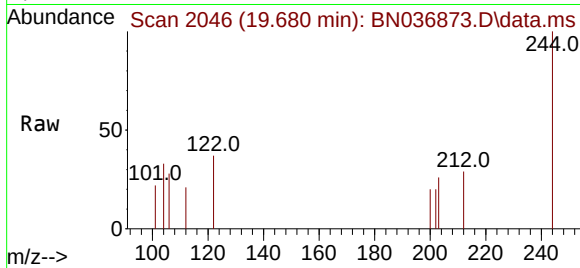




#31
 Terphenyl-d14
 Concen: 0.097 ng
 RT: 19.680 min Scan# 2075
 Delta R.T. -0.001 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

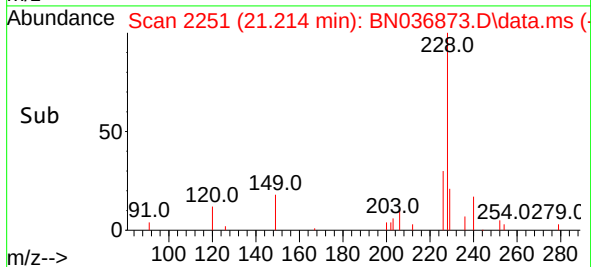
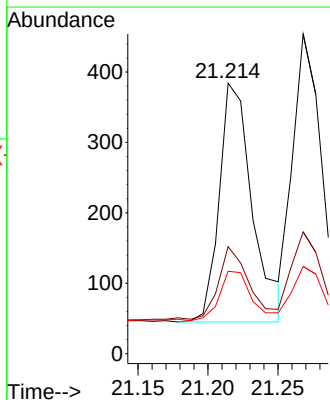
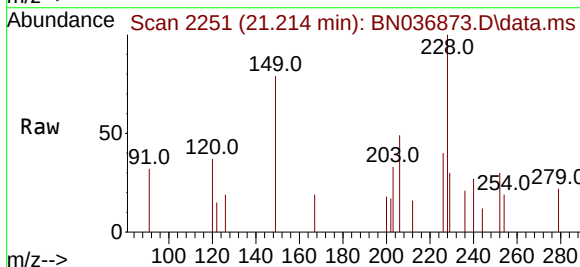
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

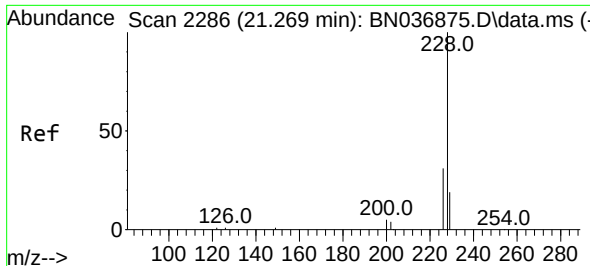
Tgt Ion:244	Resp:	305
Ion Ratio	Lower	Upper
244	100	
212	29.2	11.6 17.4#
122	36.7	14.9 22.3#



#32
 Benzo(a)anthracene
 Concen: 0.097 ng
 RT: 21.214 min Scan# 2251
 Delta R.T. -0.001 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

Tgt Ion:228	Resp:	559
Ion Ratio	Lower	Upper
228	100	
226	39.6	24.5 36.7#
229	30.5	17.7 26.5#

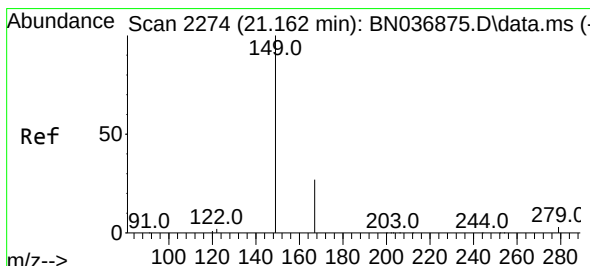
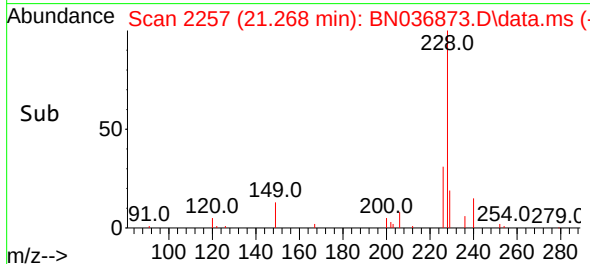
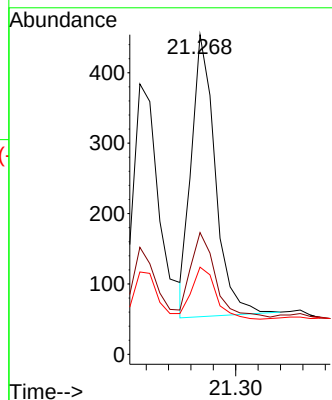
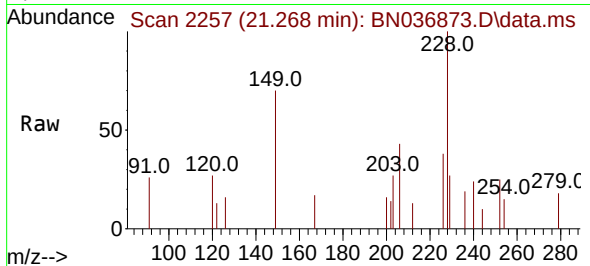




#33
 Chrysene
 Concen: 0.092 ng
 RT: 21.268 min Scan# 21
 Delta R.T. -0.001 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

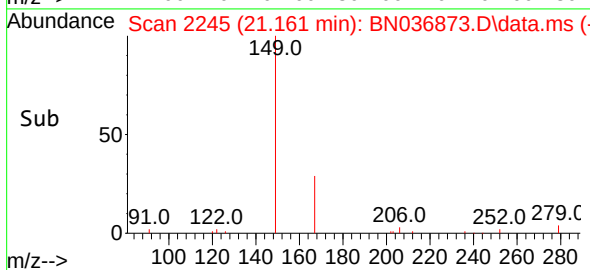
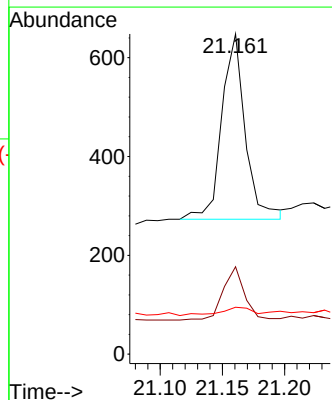
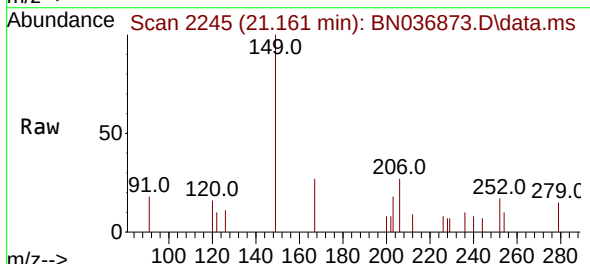
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

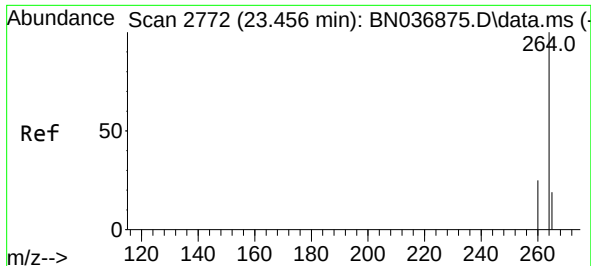
Tgt Ion:228 Resp: 590
 Ion Ratio Lower Upper
 228 100
 226 38.1 26.1 39.1
 229 27.3 17.0 25.4#



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.113 ng
 RT: 21.161 min Scan# 2245
 Delta R.T. -0.001 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

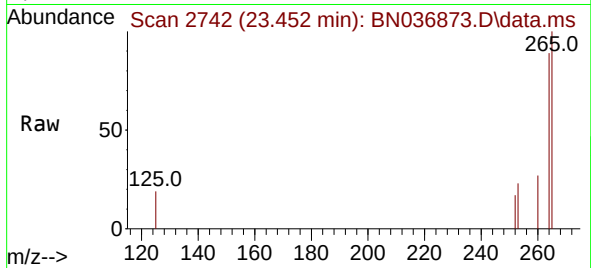
Tgt Ion:149 Resp: 495
 Ion Ratio Lower Upper
 149 100
 167 25.9 21.0 31.4
 279 6.9 3.6 5.4#



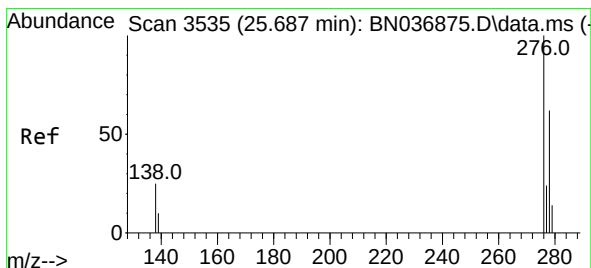
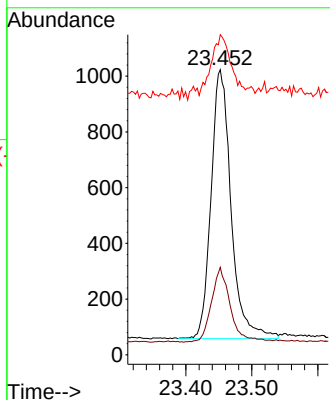
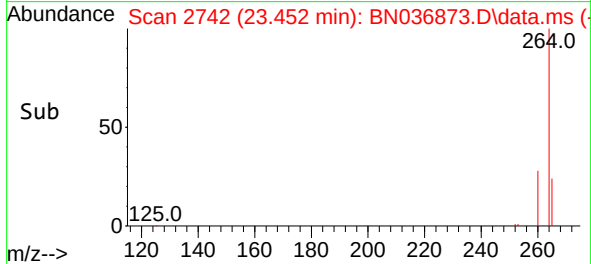


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.452 min Scan# 21
 Delta R.T. -0.004 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42

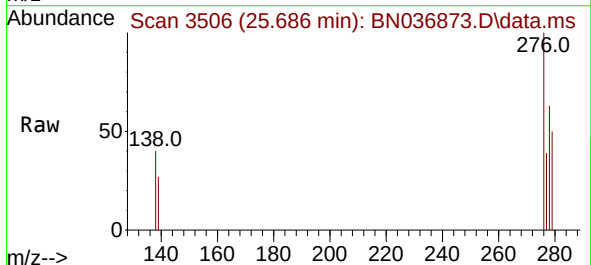
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



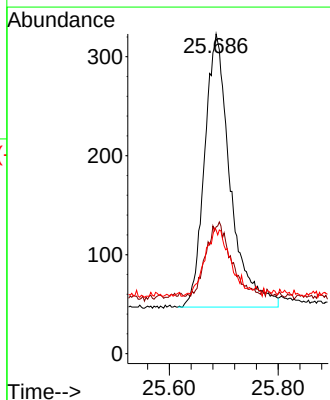
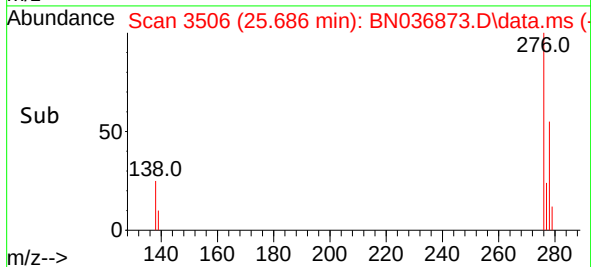
Tgt Ion:264 Resp: 2037
 Ion Ratio Lower Upper
 264 100
 260 30.7 22.9 34.3
 265 112.3 88.6 132.8

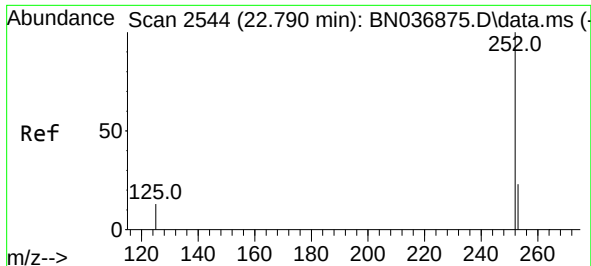


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.093 ng
 RT: 25.686 min Scan# 3506
 Delta R.T. -0.001 min
 Lab File: BN036873.D
 Acq: 11 Apr 2025 11:42



Tgt Ion:276 Resp: 907
 Ion Ratio Lower Upper
 276 100
 138 25.4 21.0 31.6
 277 12.7 19.3 28.9#

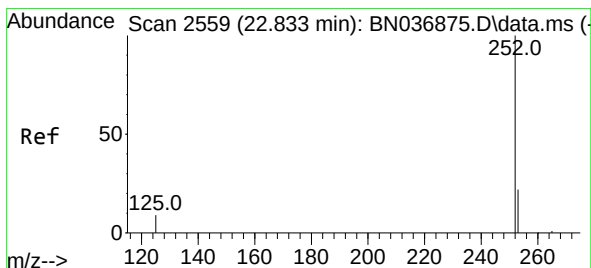
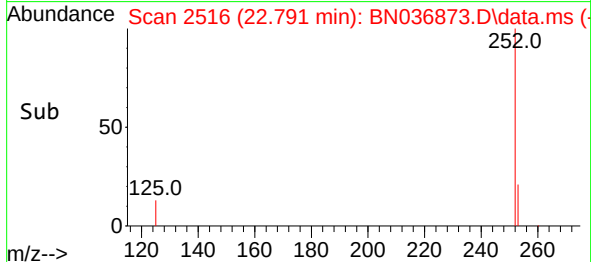
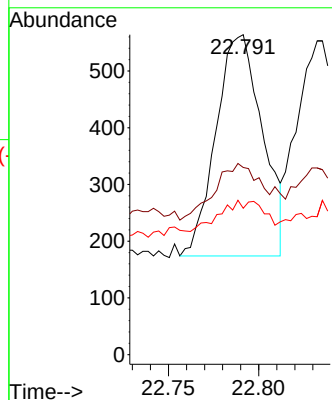
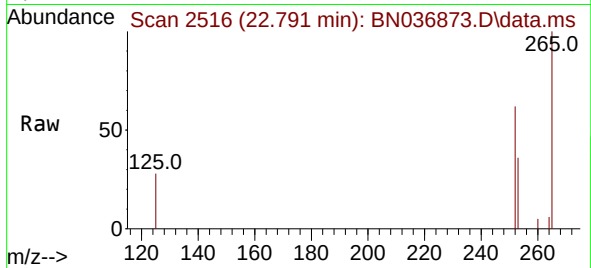




#37
Benzo(b)fluoranthene
Concen: 0.097 ng
RT: 22.791 min Scan# 2516
Delta R.T. 0.002 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

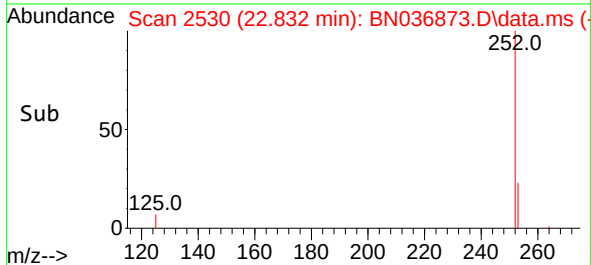
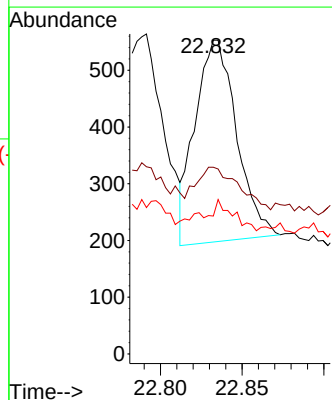
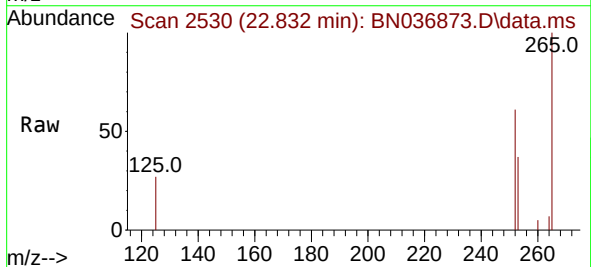
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

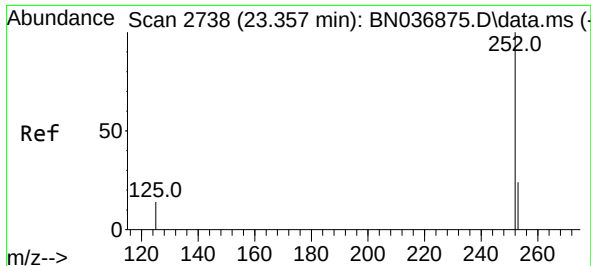
Tgt Ion:252 Resp: 699
Ion Ratio Lower Upper
252 100
253 58.5 27.0 40.6#
125 45.7 17.7 26.5#



#38
Benzo(k)fluoranthene
Concen: 0.087 ng
RT: 22.832 min Scan# 2530
Delta R.T. -0.001 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Tgt Ion:252 Resp: 630
Ion Ratio Lower Upper
252 100
253 59.5 26.7 40.1#
125 43.9 16.9 25.3#





#39

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.356 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

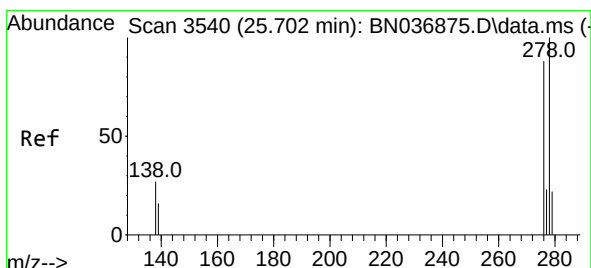
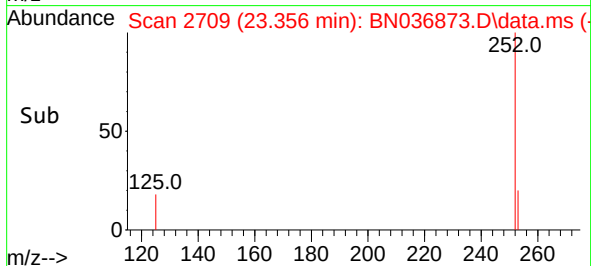
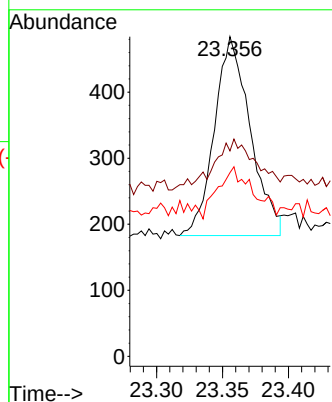
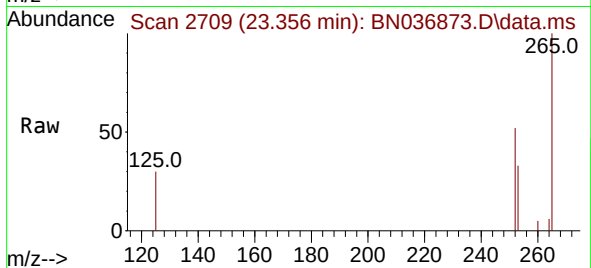
Tgt Ion:252 Resp: 571

Ion Ratio Lower Upper

252 100

253 64.3 31.5 47.3#

125 57.4 22.6 34.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.088 ng

RT: 25.703 min Scan# 3512

Delta R.T. 0.002 min

Lab File: BN036873.D

Acq: 11 Apr 2025 11:42

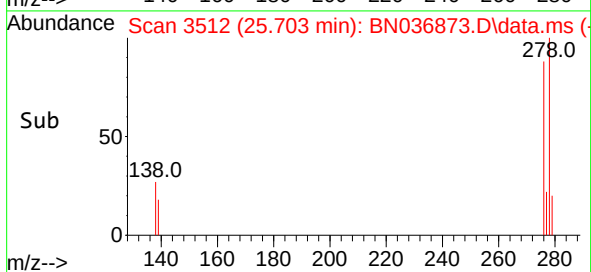
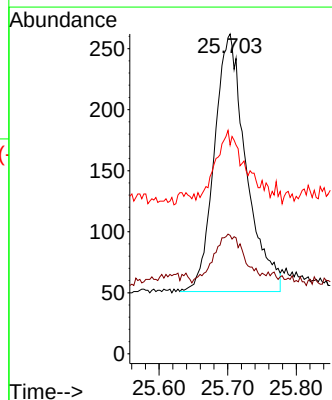
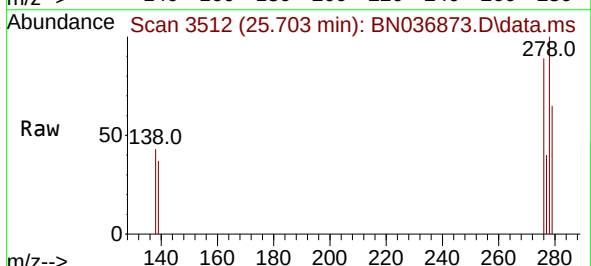
Tgt Ion:278 Resp: 678

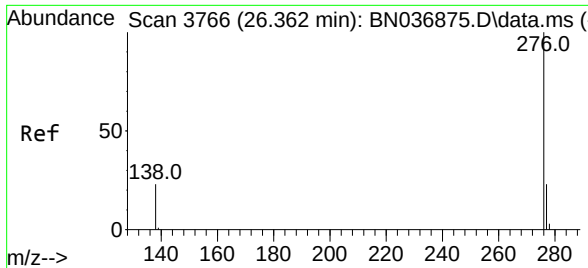
Ion Ratio Lower Upper

278 100

139 37.0 17.6 26.4#

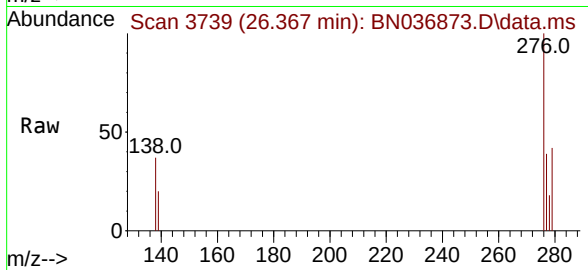
279 65.3 26.7 40.1#



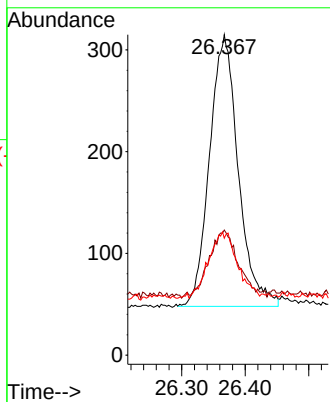
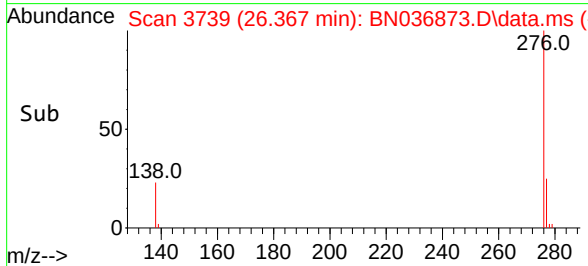


#41
Benzo(g,h,i)perylene
Concen: 0.096 ng
RT: 26.367 min Scan# 31
Delta R.T. 0.005 min
Lab File: BN036873.D
Acq: 11 Apr 2025 11:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 838
Ion Ratio Lower Upper
276 100
277 39.0 21.8 32.8#
138 36.5 21.6 32.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036880.D
 Acq On : 11 Apr 2025 16:18
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

Quant Time: Apr 11 16:41:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

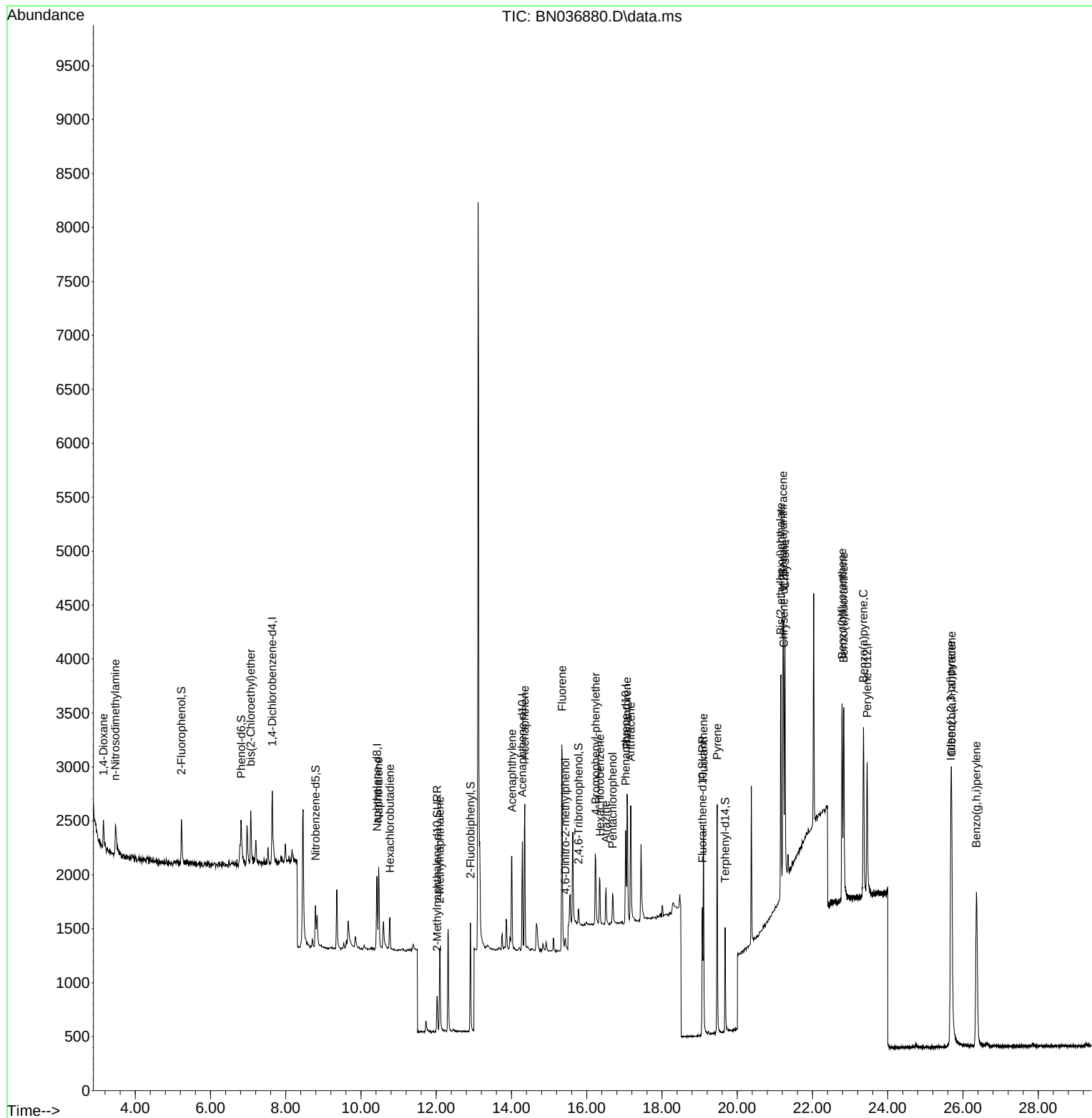
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	356	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	934	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	562	0.400	ng	0.00
19) Phenanthrene-d10	17.034	188	1227	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1378	0.400	ng	0.00
35) Perylene-d12	23.450	264	1678	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	330	0.394	ng	0.00
5) Phenol-d6	6.817	99	364	0.340	ng	0.00
8) Nitrobenzene-d5	8.792	82	372	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	516	0.380	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	92	0.340	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	927	0.343	ng	0.00
27) Fluoranthene-d10	19.073	212	1345	0.389	ng	0.00
31) Terphenyl-d14	19.677	244	1023	0.391	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	218	0.528	ng	99
3) n-Nitrosodimethylamine	3.473	42	416	0.455	ng	# 100
6) bis(2-Chloroethyl)ether	7.070	93	423	0.403	ng	89
9) Naphthalene	10.468	128	1042	0.388	ng	95
10) Hexachlorobutadiene	10.767	225	245	0.402	ng	# 98
12) 2-Methylnaphthalene	12.092	142	620	0.358	ng	95
16) Acenaphthylene	14.010	152	1105	0.423	ng	98
17) Acenaphthene	14.352	154	664	0.391	ng	95
18) Fluorene	15.346	166	914	0.390	ng	96
20) 4,6-Dinitro-2-methylph...	15.432	198	95	0.327	ng	# 46
21) 4-Bromophenyl-phenylether	16.239	248	273	0.371	ng	98
22) Hexachlorobenzene	16.351	284	325	0.374	ng	92
23) Atrazine	16.512	200	322	0.448	ng	93
24) Pentachlorophenol	16.686	266	179	0.393	ng	93
25) Phenanthrene	17.071	178	1449	0.394	ng	100
26) Anthracene	17.170	178	1362	0.415	ng	97
28) Fluoranthene	19.101	202	1833	0.396	ng	99
30) Pyrene	19.468	202	1936	0.372	ng	98
32) Benzo(a)anthracene	21.216	228	1916	0.394	ng	99
33) Chrysene	21.269	228	2205	0.411	ng	99
34) Bis(2-ethylhexyl)phtha...	21.153	149	1487	0.412	ng	99
36) Indeno(1,2,3-cd)pyrene	25.675	276	3402	0.425	ng	98
37) Benzo(b)fluoranthene	22.787	252	2332	0.392	ng	96
38) Benzo(k)fluoranthene	22.828	252	2571	0.428	ng	96
39) Benzo(a)pyrene	23.354	252	2267	0.434	ng	96
40) Dibenzo(a,h)anthracene	25.699	278	2690	0.423	ng	96
41) Benzo(g,h,i)perylene	26.357	276	2966	0.413	ng	98

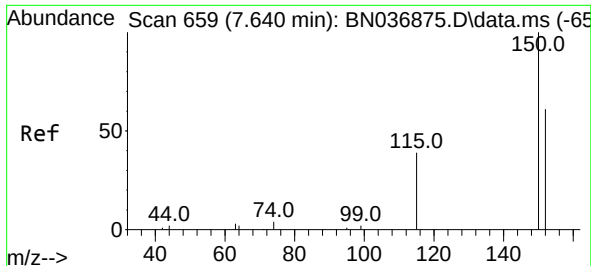
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036880.D
Acq On : 11 Apr 2025 16:18
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN041125

Quant Time: Apr 11 16:41:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

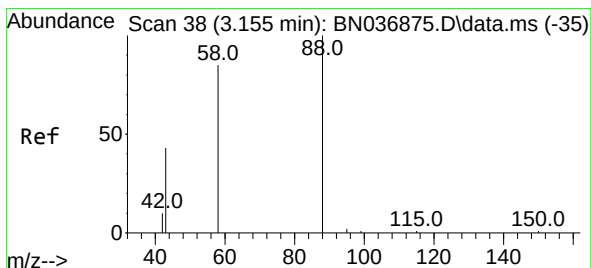
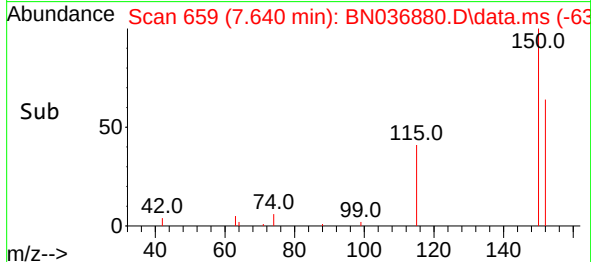
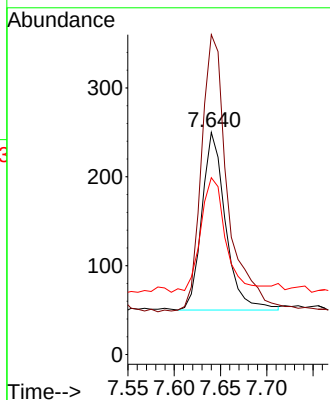
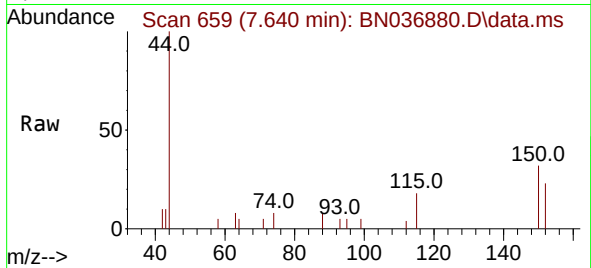




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.640 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

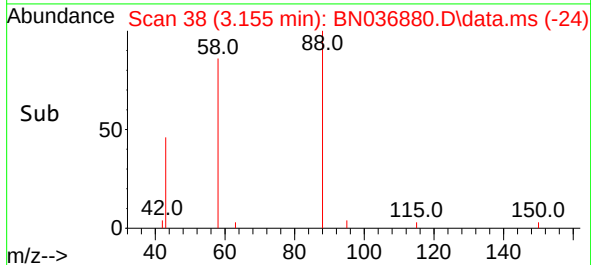
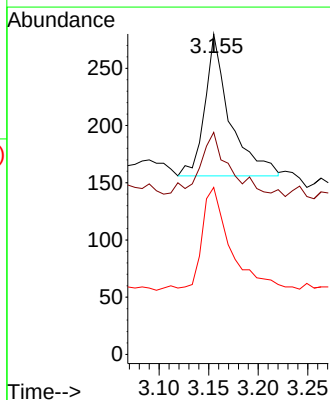
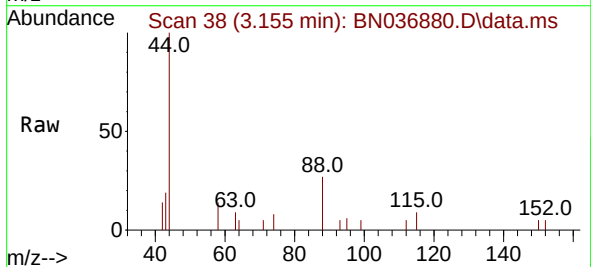
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

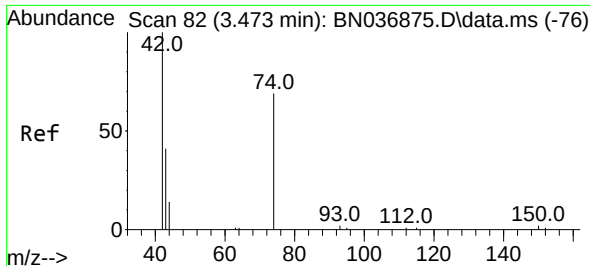
Tgt Ion:152 Resp: 356
 Ion Ratio Lower Upper
 152 100
 150 144.0 123.0 184.6
 115 79.6 60.1 90.1



#2
 1,4-Dioxane
 Concen: 0.528 ng
 RT: 3.155 min Scan# 38
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

Tgt Ion: 88 Resp: 218
 Ion Ratio Lower Upper
 88 100
 43 49.5 39.2 58.8
 58 78.0 63.5 95.3

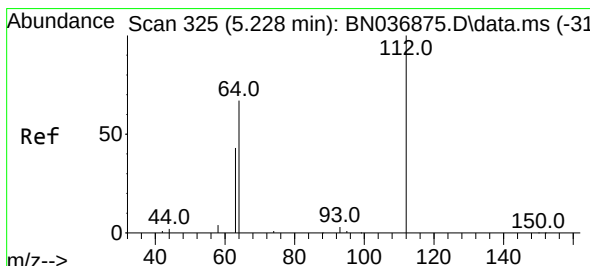
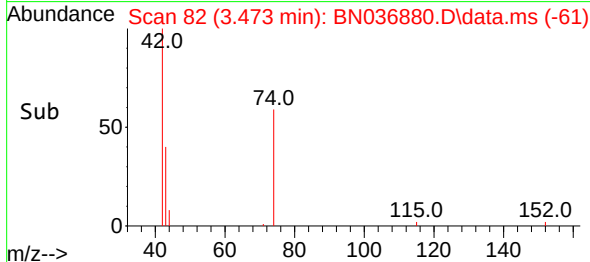
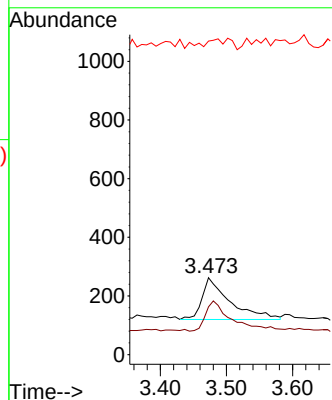
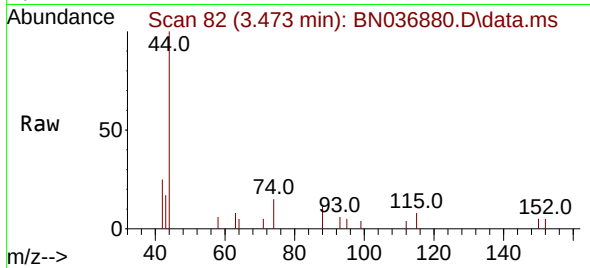




#3
n-Nitrosodimethylamine
Concen: 0.455 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

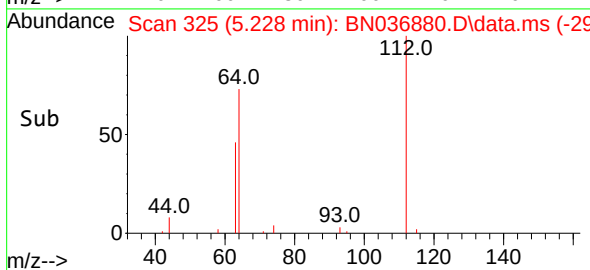
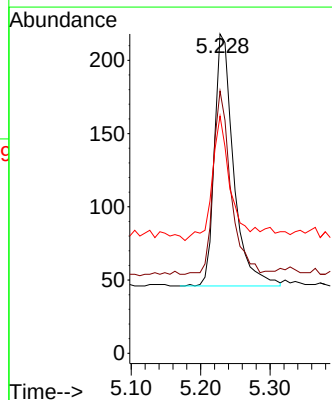
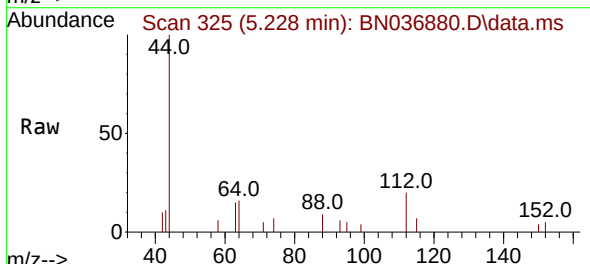
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

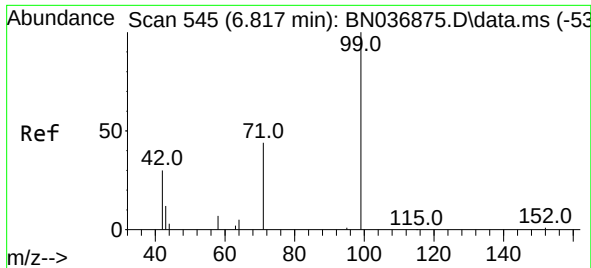
Tgt Ion: 42 Resp: 416
Ion Ratio Lower Upper
42 100
74 68.0 54.6 81.8
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.228 min Scan# 325
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion: 112 Resp: 330
Ion Ratio Lower Upper
112 100
64 67.0 54.0 81.0
63 47.3 35.1 52.7

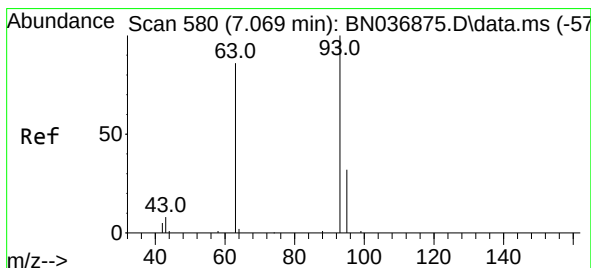
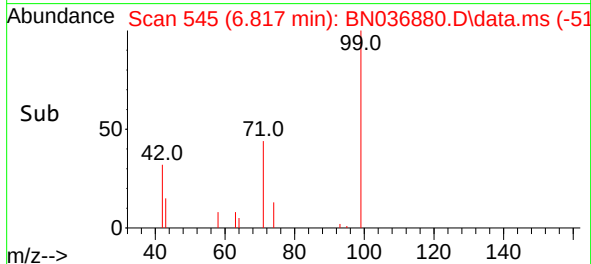
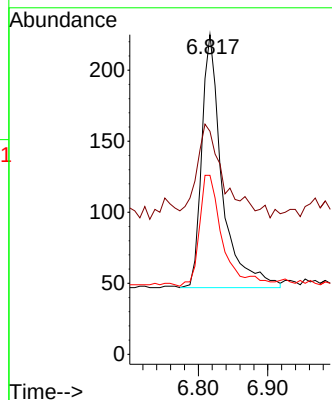
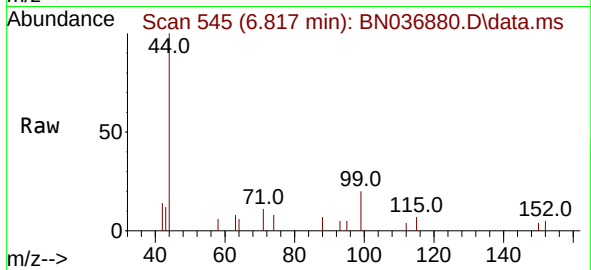




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

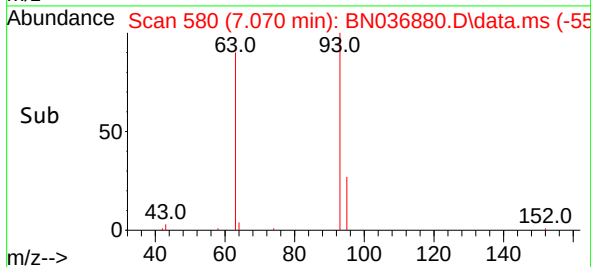
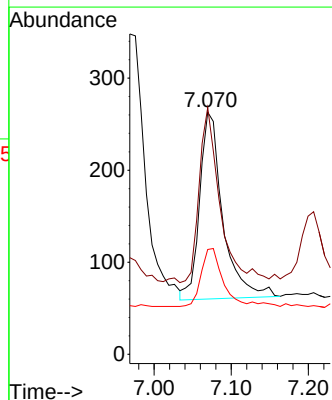
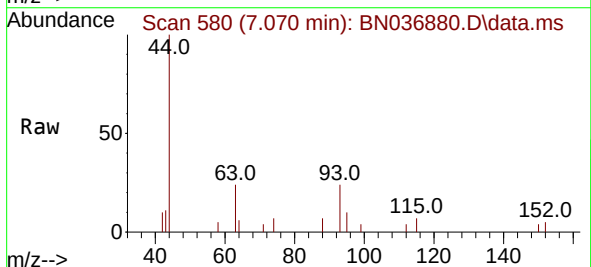
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BNA_N
ClientSampleId :
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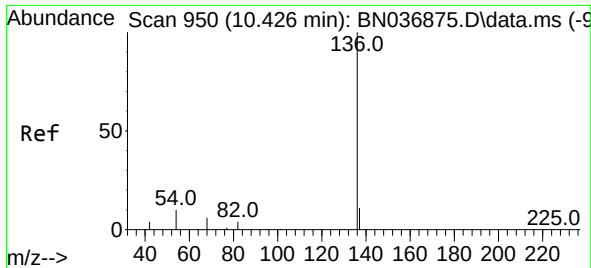
Tgt Ion: 99 Resp: 364
Ion Ratio Lower Upper
99 100
42 49.2 30.9 46.3#
71 49.2 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.070 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion: 93 Resp: 423
Ion Ratio Lower Upper
93 100
63 83.9 76.4 114.6
95 28.4 26.1 39.1

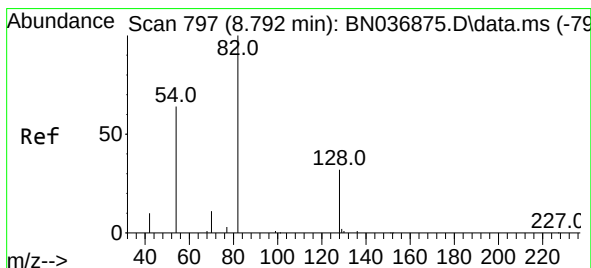
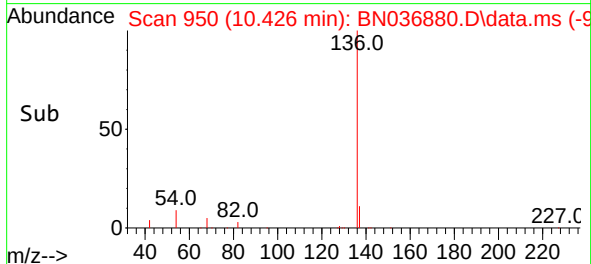
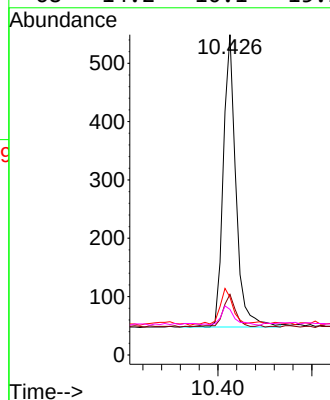
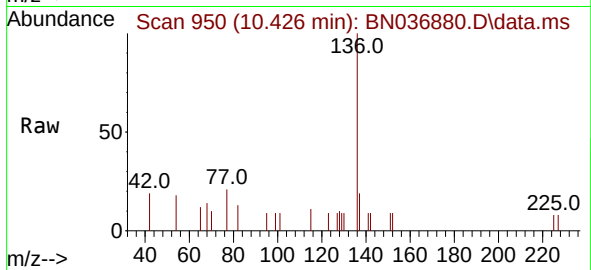




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 950
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

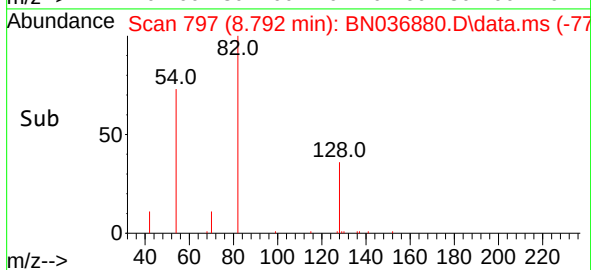
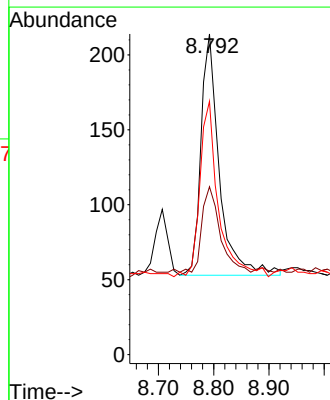
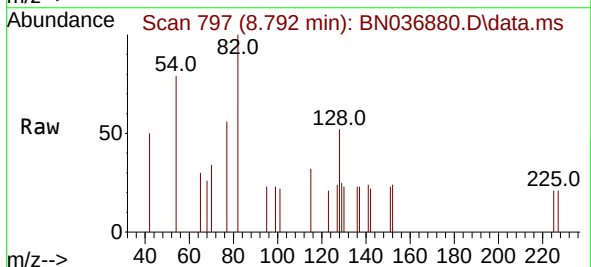
Instrument :
BNA_N
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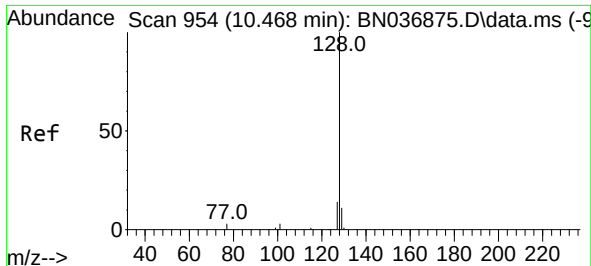
Tgt Ion:	136	Resp:	934
Ion	Ratio	Lower	Upper
136	100		
137	18.9	13.5	20.3
54	18.0	12.8	19.2
68	14.2	10.1	15.1



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:	82	Resp:	372
Ion	Ratio	Lower	Upper
82	100		
128	52.3	35.5	53.3
54	79.0	56.2	84.4

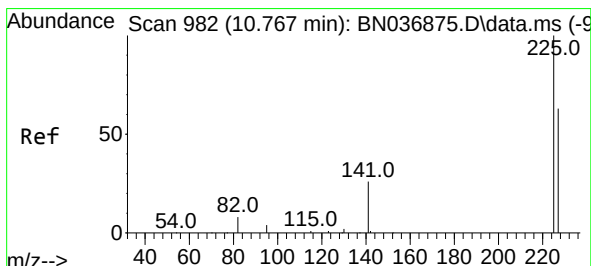
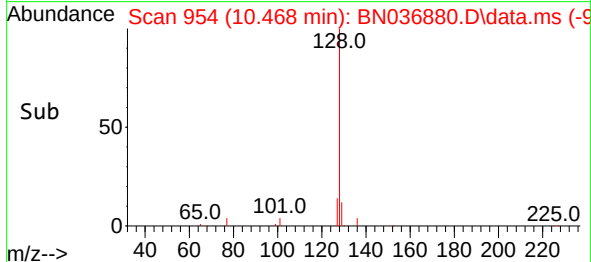
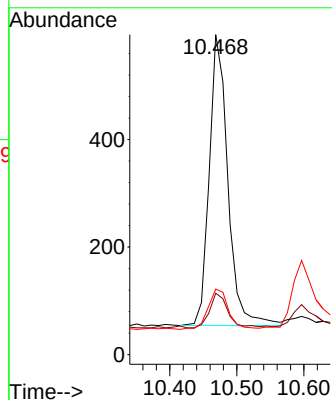
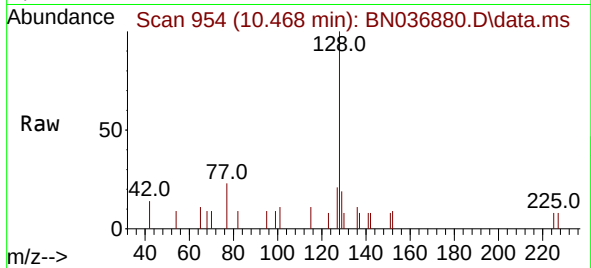




#9
Naphthalene
Concen: 0.388 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

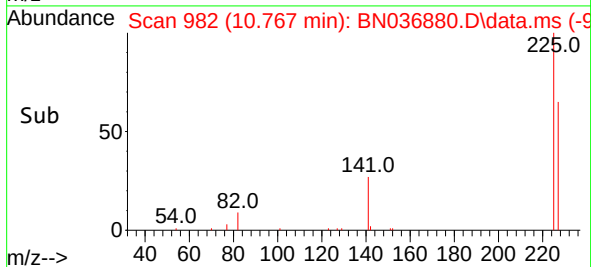
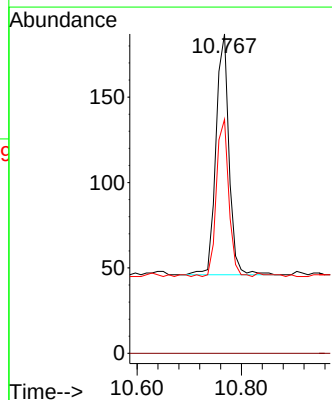
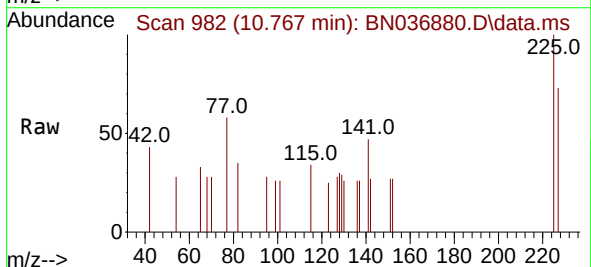
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

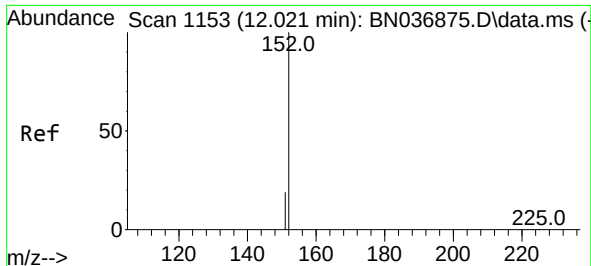
Tgt Ion:	128	Resp:	1042
Ion	Ratio	Lower	Upper
128	100		
129	19.2	12.9	19.3
127	20.5	15.0	22.6



#10
Hexachlorobutadiene
Concen: 0.402 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:	225	Resp:	245
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.6	50.5	75.7

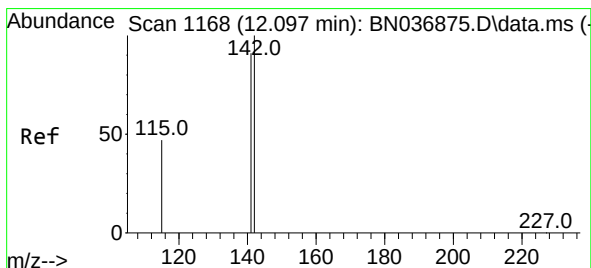
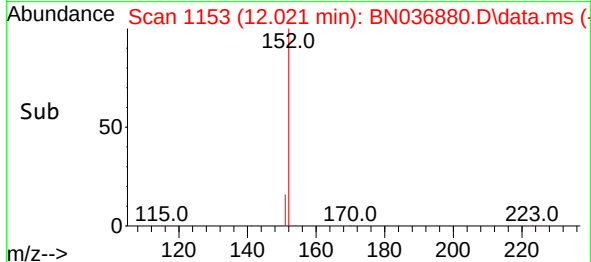
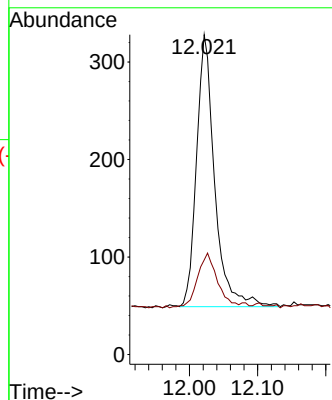
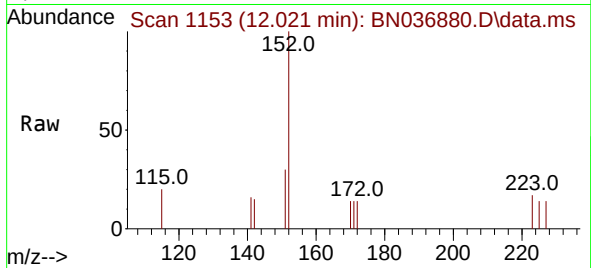




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

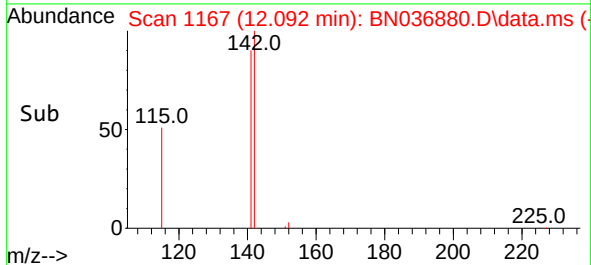
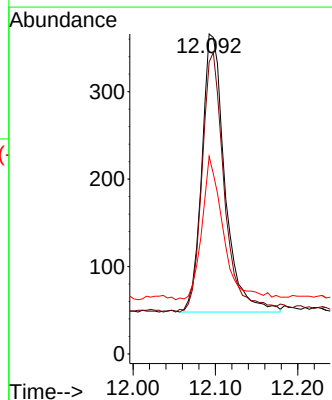
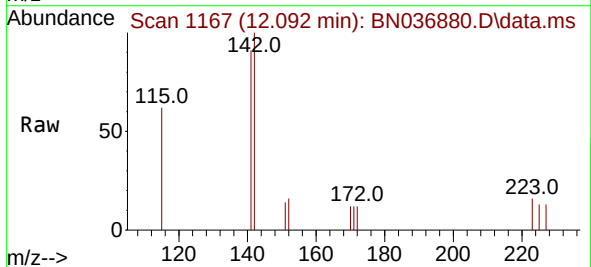
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

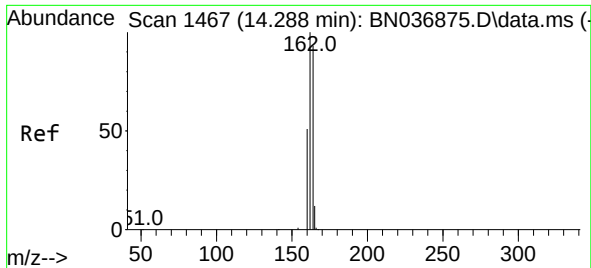
Tgt Ion:152 Resp: 516
Ion Ratio Lower Upper
152 100
151 22.1 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.358 ng
RT: 12.092 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:142 Resp: 620
Ion Ratio Lower Upper
142 100
141 91.3 73.8 110.8
115 61.7 43.3 64.9

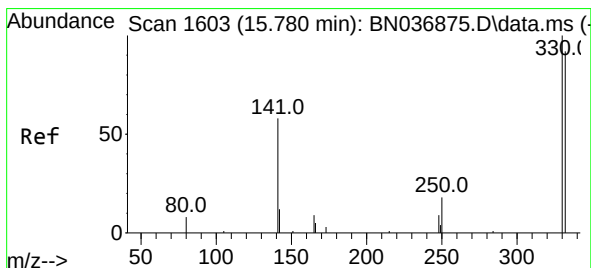
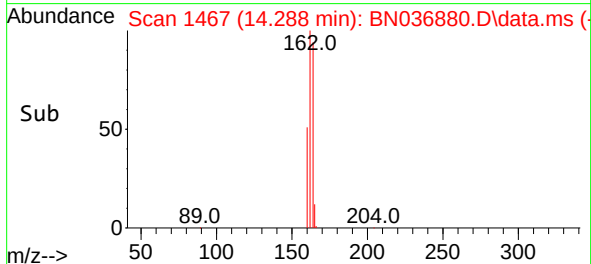
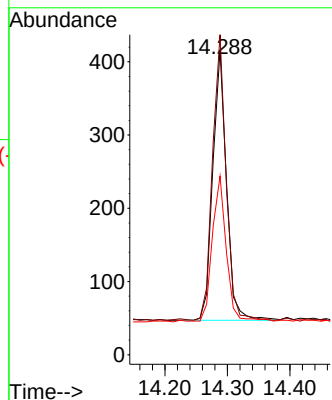
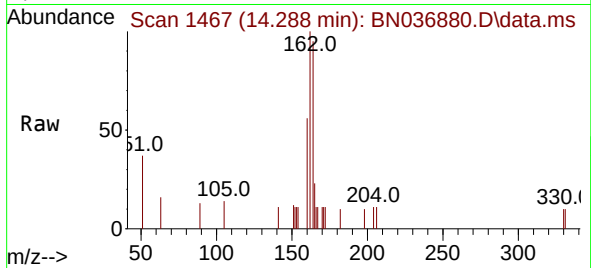




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

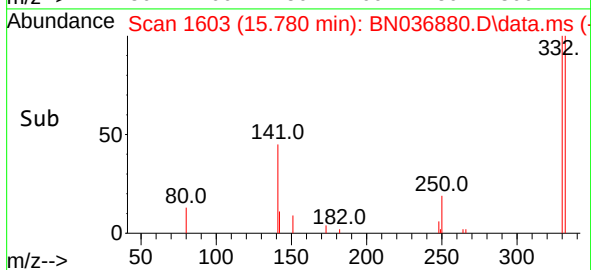
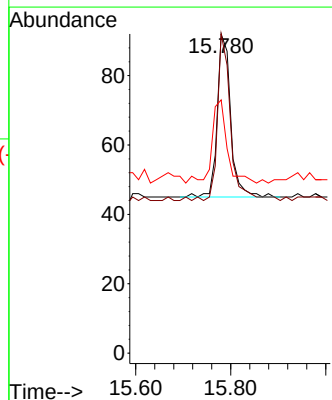
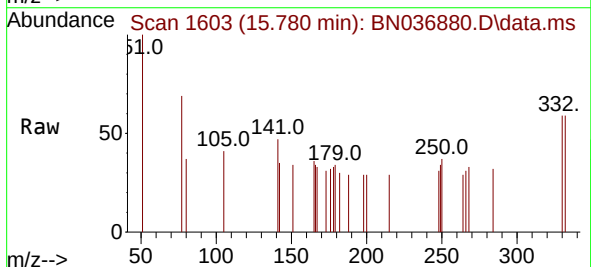
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

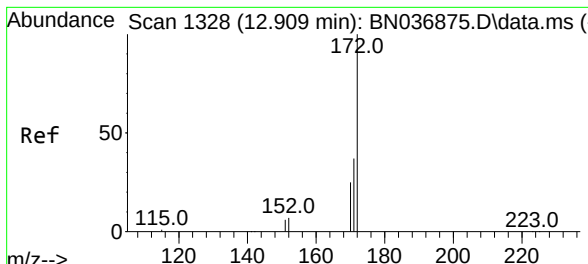
Tgt Ion:164 Resp: 562
Ion Ratio Lower Upper
164 100
162 105.0 85.7 128.5
160 58.7 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 0.340 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:330 Resp: 92
Ion Ratio Lower Upper
330 100
332 100.0 87.0 130.6
141 57.6 45.3 67.9

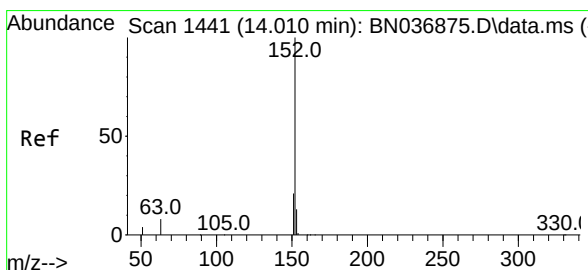
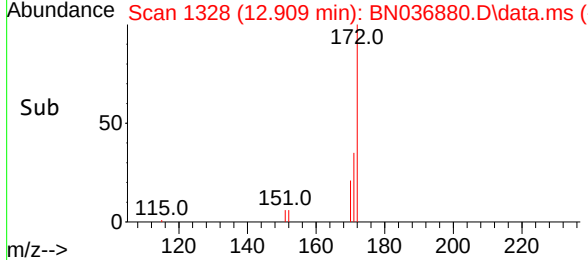
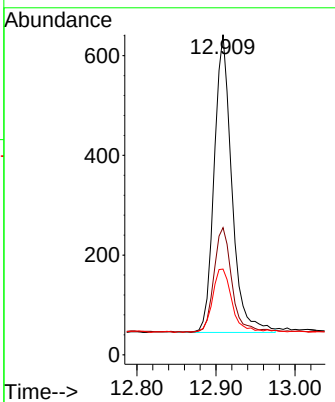
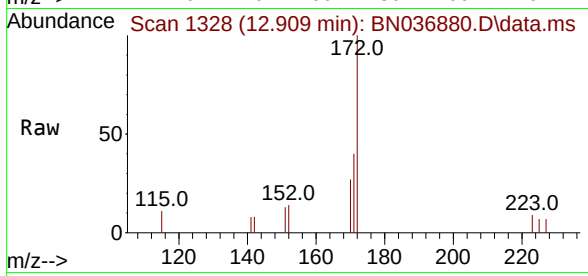




#15
 2-Fluorobiphenyl
 Concen: 0.343 ng
 RT: 12.909 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

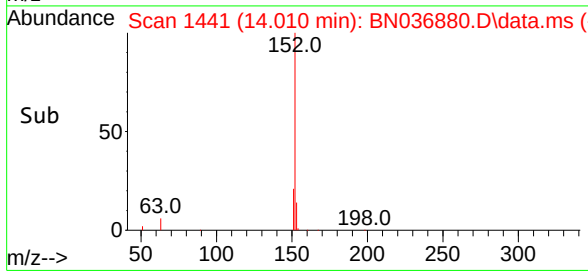
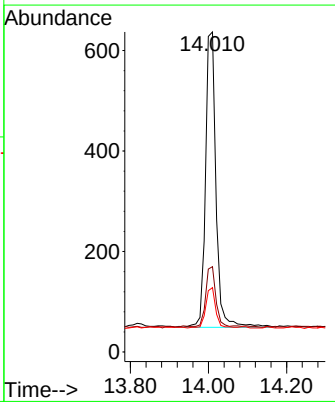
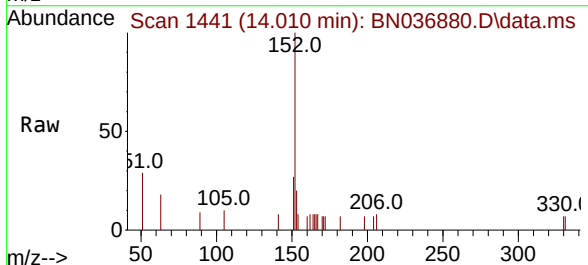
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

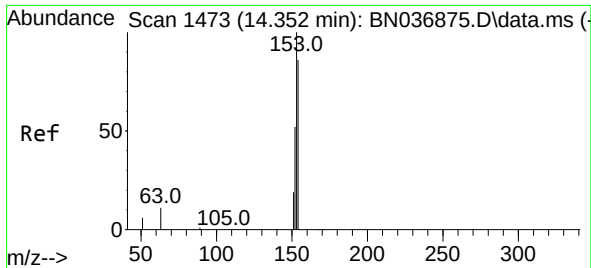
Tgt Ion:	172	Resp:	927
Ion	Ratio	Lower	Upper
172	100		
171	39.7	32.7	49.1
170	26.8	23.3	34.9



#16
 Acenaphthylene
 Concen: 0.423 ng
 RT: 14.010 min Scan# 1441
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

Tgt Ion:	152	Resp:	1105
Ion	Ratio	Lower	Upper
152	100		
151	19.2	16.4	24.6
153	12.7	10.3	15.5

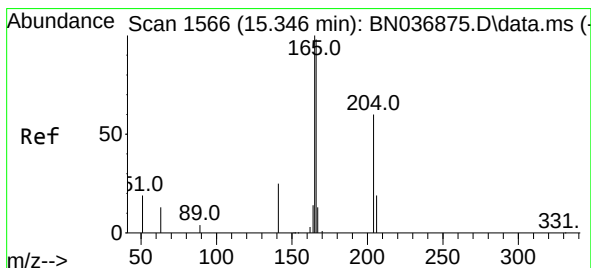
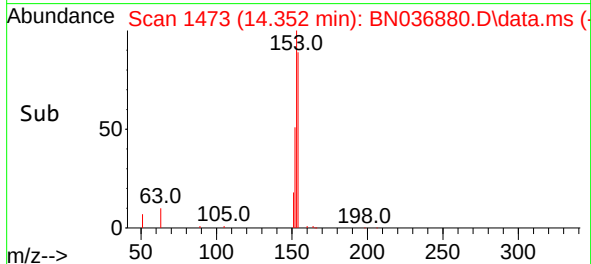
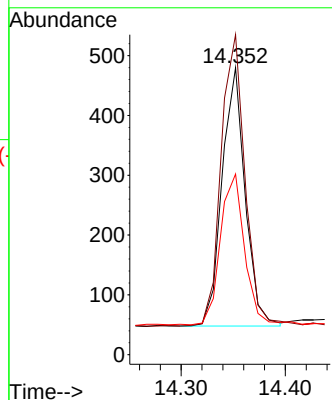
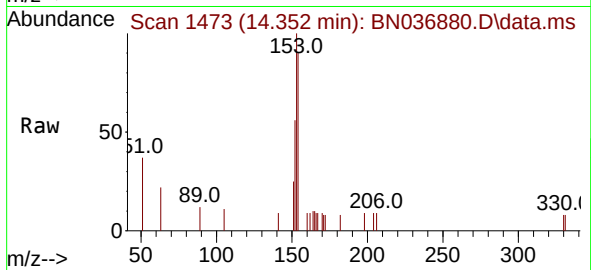




#17
Acenaphthene
Concen: 0.391 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

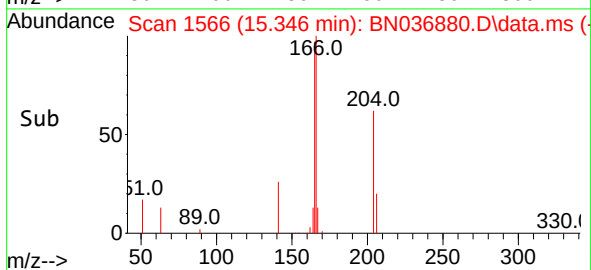
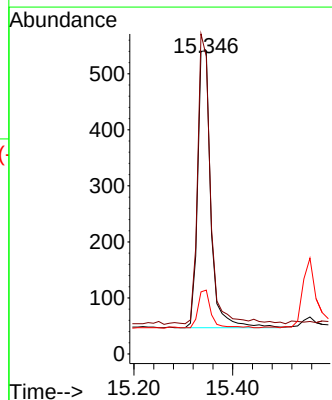
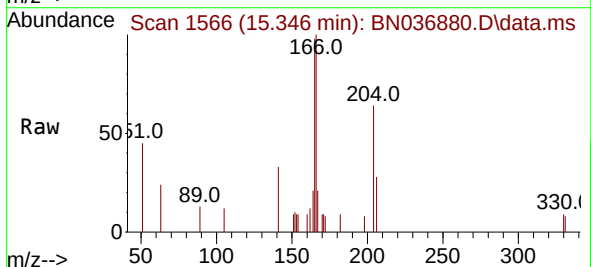
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

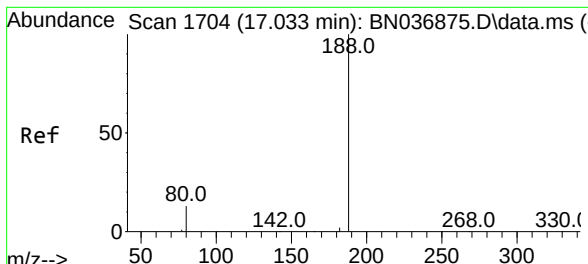
Tgt Ion:154 Resp: 664
Ion Ratio Lower Upper
154 100
153 117.0 97.8 146.6
152 61.6 52.7 79.1



#18
Fluorene
Concen: 0.390 ng
RT: 15.346 min Scan# 1566
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:166 Resp: 914
Ion Ratio Lower Upper
166 100
165 99.6 83.2 124.8
167 13.6 11.1 16.7

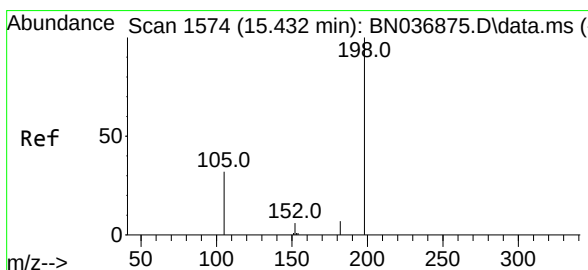
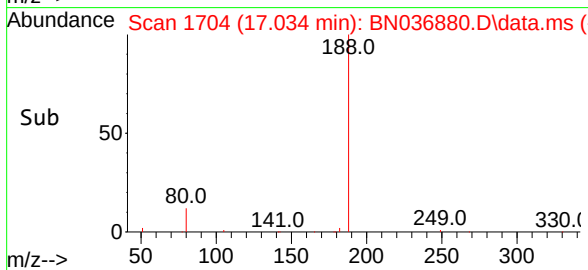
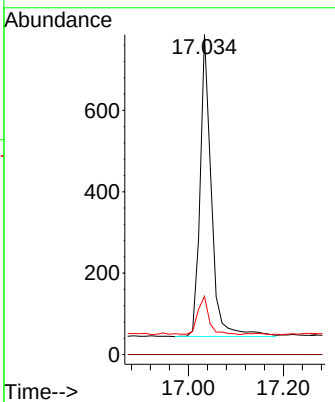
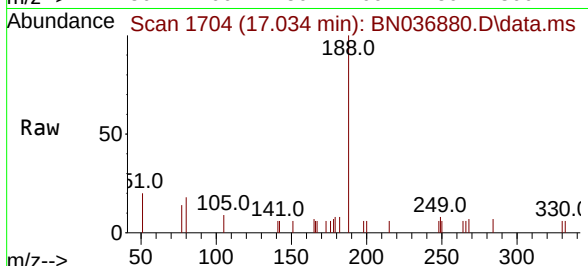




#19
 Phenanthrene-d10
 Concen: 0.400 ng
 RT: 17.034 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

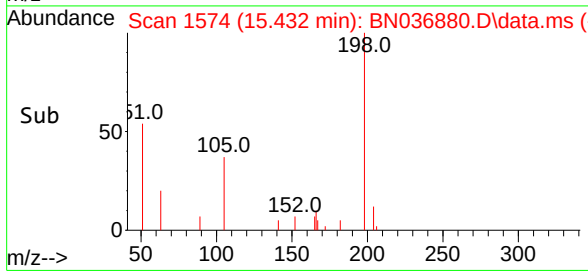
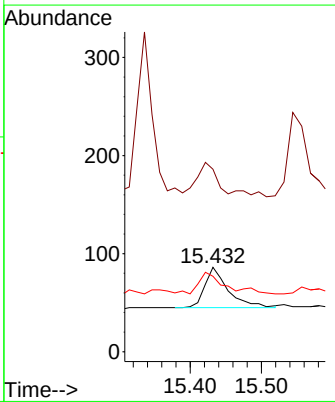
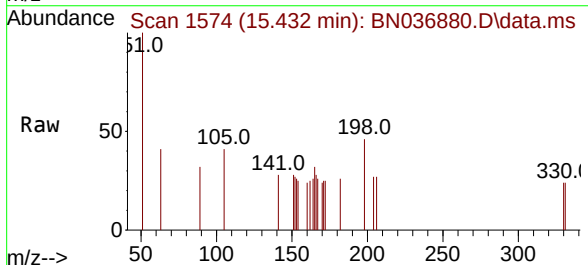
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

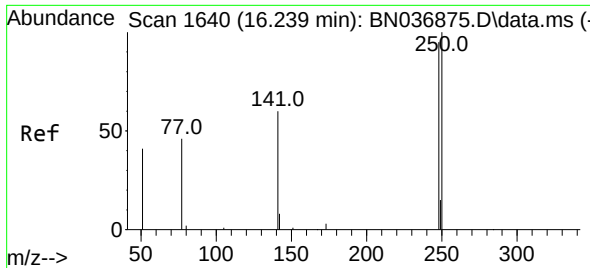
Tgt Ion:	188	Resp:	1227
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	18.2	13.9	20.9



#20
 4,6-Dinitro-2-methylphenol
 Concen: 0.327 ng
 RT: 15.432 min Scan# 1574
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

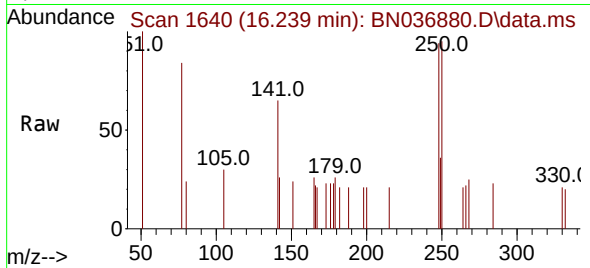
Tgt Ion:	198	Resp:	95
Ion Ratio	Lower	Upper	
198	100		
51	216.3	107.6	161.4#
105	89.5	55.2	82.8#



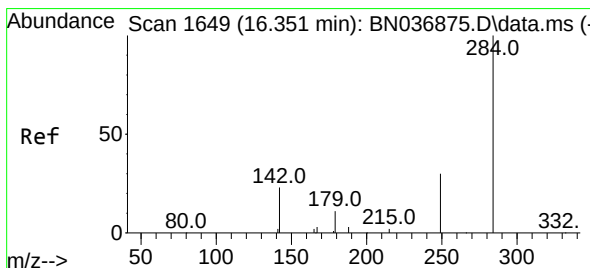
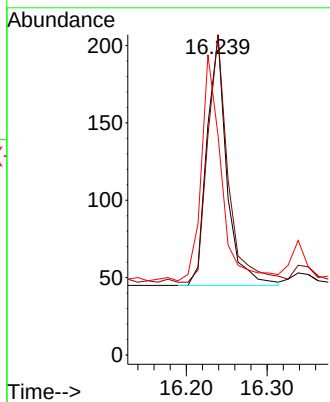
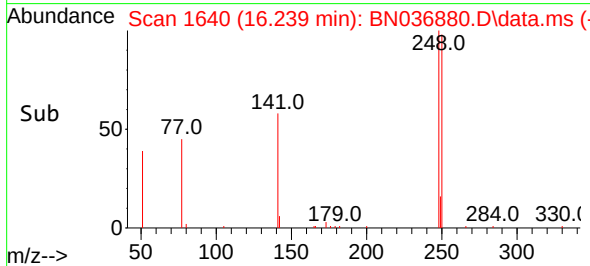


#21
4-Bromophenyl-phenylether
Concen: 0.371 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

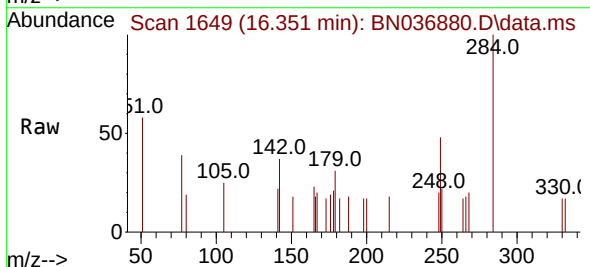
Instrument :
BNA_N
ClientSampleId :
ICVBN041125



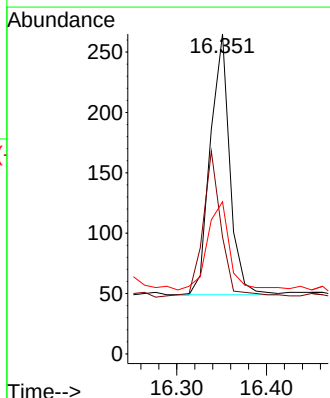
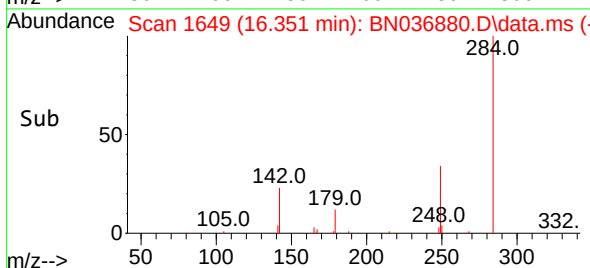
Tgt Ion:	248	Resp:	273
Ion	Ratio	Lower	Upper
248	100		
250	100.5	83.5	125.3
141	68.9	55.3	82.9

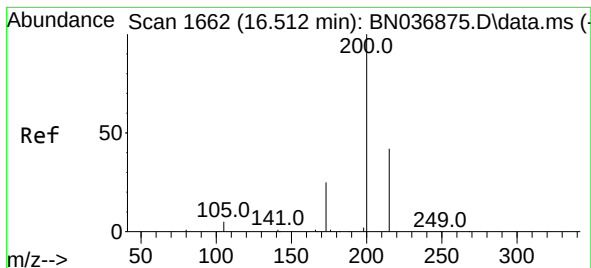


#22
Hexachlorobenzene
Concen: 0.374 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18



Tgt Ion:	284	Resp:	325
Ion	Ratio	Lower	Upper
284	100		
142	53.5	37.7	56.5
249	40.0	29.0	43.6





#23

Atrazine

Concen: 0.448 ng

RT: 16.512 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

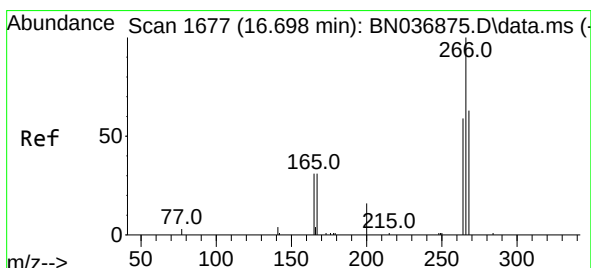
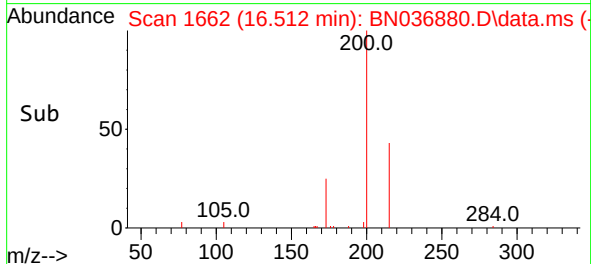
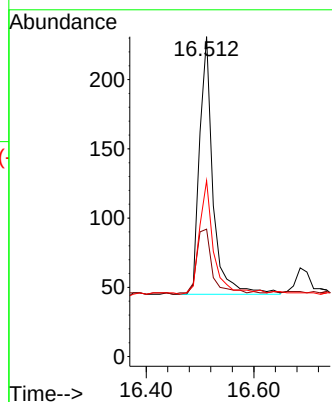
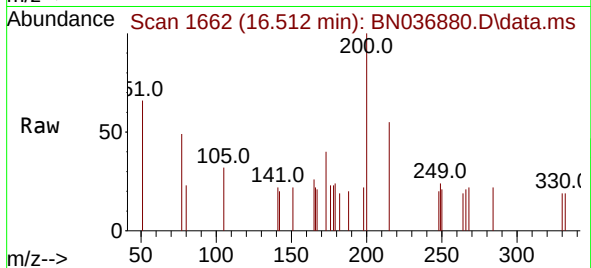
Tgt Ion:200 Resp: 322

Ion Ratio Lower Upper

200 100

173 39.8 28.6 43.0

215 55.0 40.5 60.7



#24

Pentachlorophenol

Concen: 0.393 ng

RT: 16.686 min Scan# 1676

Delta R.T. -0.012 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

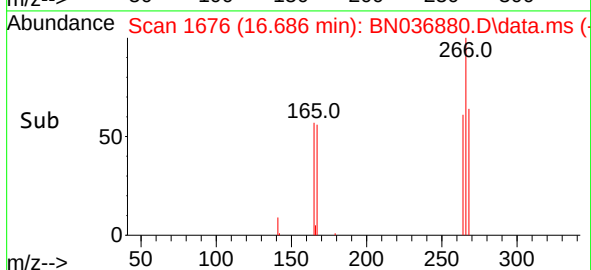
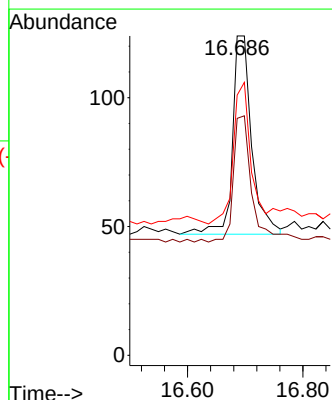
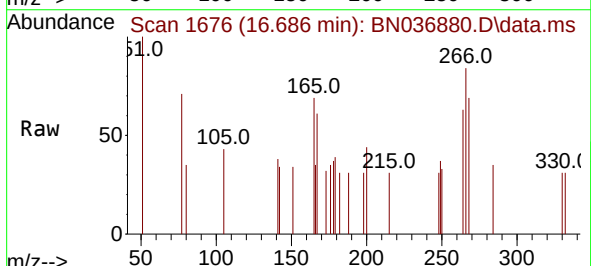
Tgt Ion:266 Resp: 179

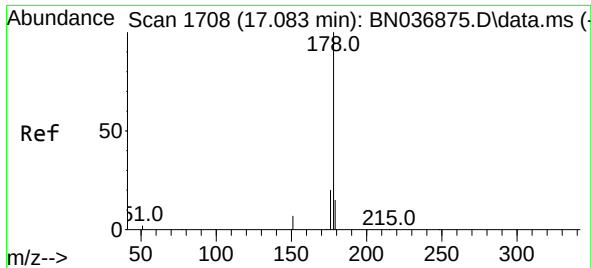
Ion Ratio Lower Upper

266 100

264 62.0 44.6 66.8

268 68.7 51.8 77.6

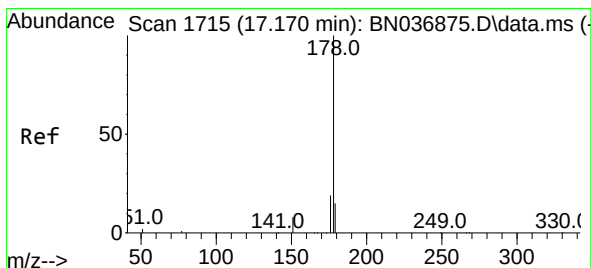
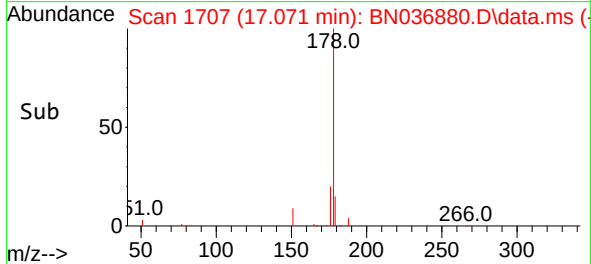
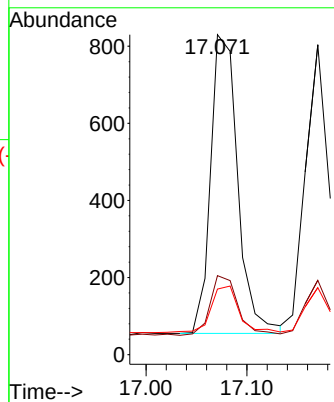
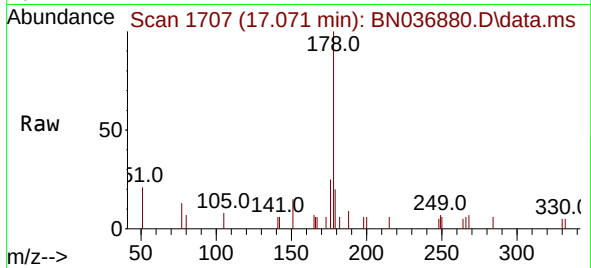




#25
Phenanthrene
Concen: 0.394 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

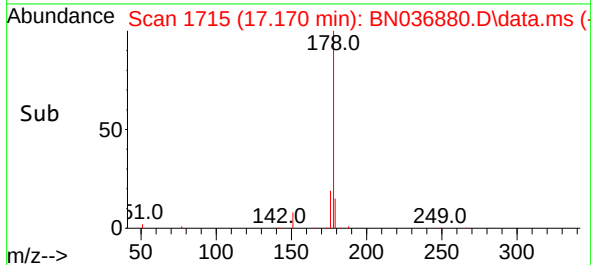
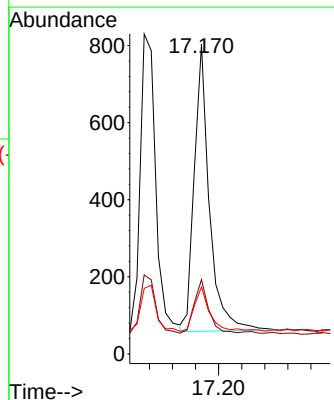
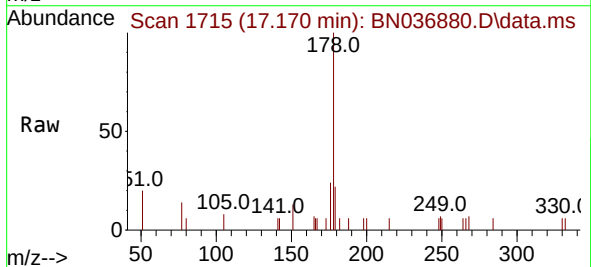
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

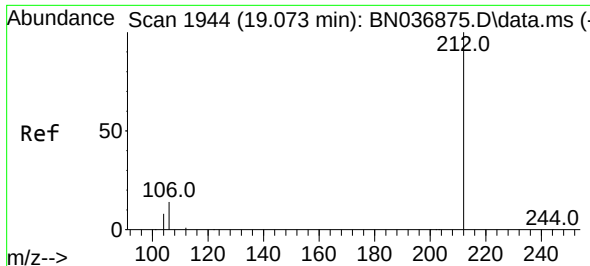
Tgt Ion:178 Resp: 1449
Ion Ratio Lower Upper
178 100
176 20.4 16.6 25.0
179 16.0 12.8 19.2



#26
Anthracene
Concen: 0.415 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:178 Resp: 1362
Ion Ratio Lower Upper
178 100
176 17.5 15.8 23.6
179 16.1 12.6 18.8

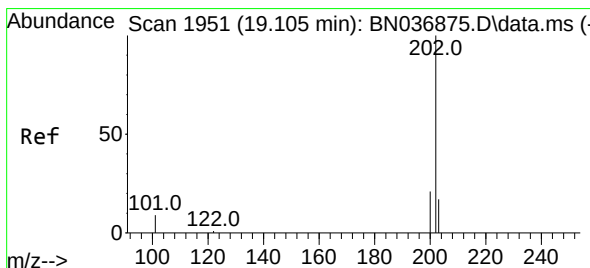
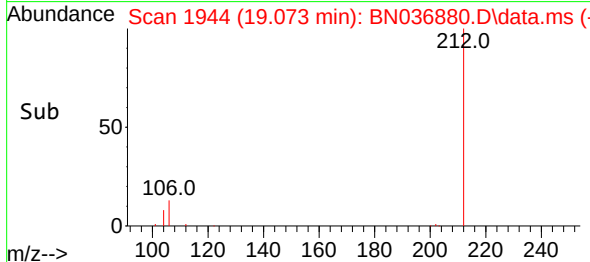
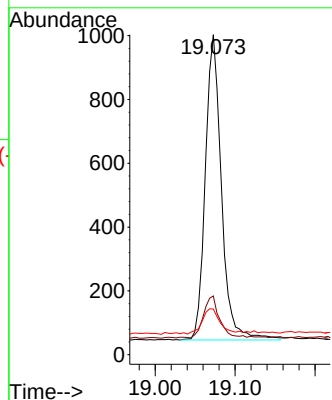
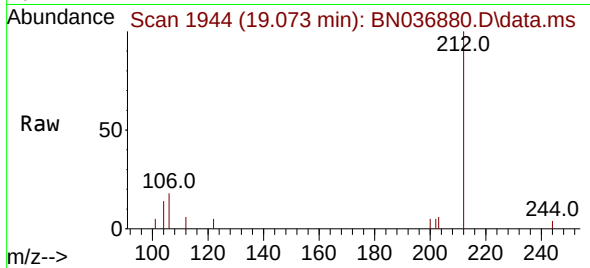




#27
Fluoranthene-d10
Concen: 0.389 ng
RT: 19.073 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

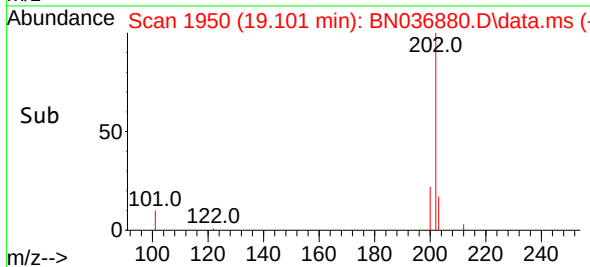
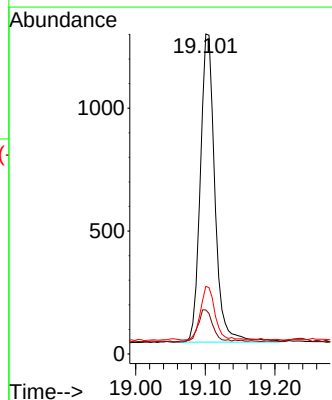
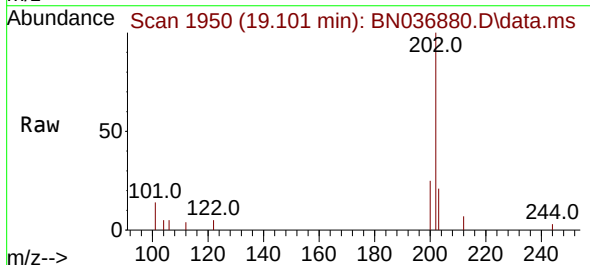
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

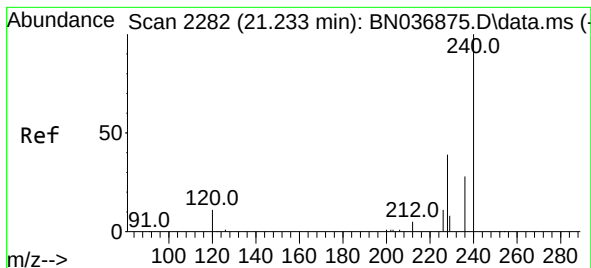
Tgt Ion:212 Resp: 1345
Ion Ratio Lower Upper
212 100
106 13.3 11.2 16.8
104 9.3 7.5 11.3



#28
Fluoranthene
Concen: 0.396 ng
RT: 19.101 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:202 Resp: 1833
Ion Ratio Lower Upper
202 100
101 10.7 8.5 12.7
203 17.6 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

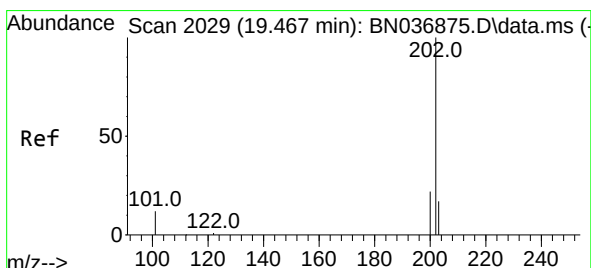
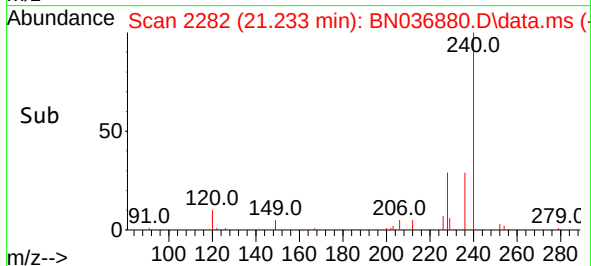
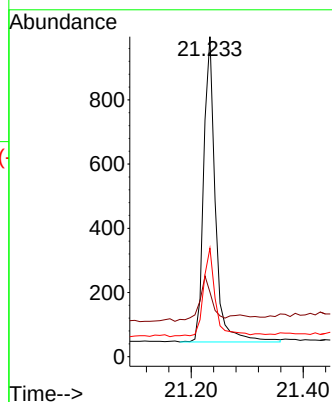
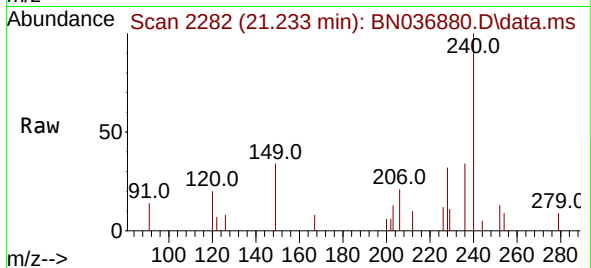
Tgt Ion:240 Resp: 1378

Ion Ratio Lower Upper

240 100

120 20.2 15.8 23.6

236 33.9 25.8 38.8



#30

Pyrene

Concen: 0.372 ng

RT: 19.468 min Scan# 2029

Delta R.T. 0.000 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

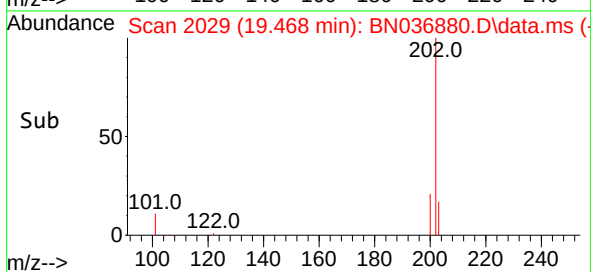
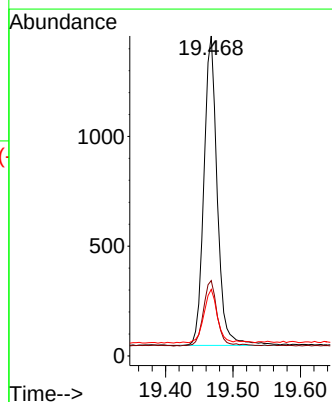
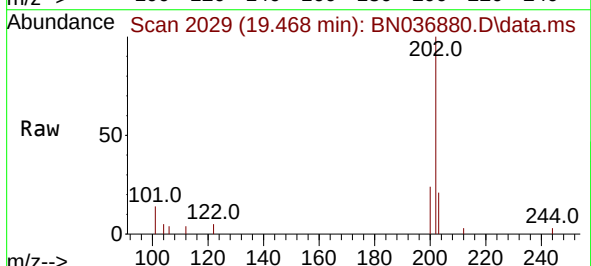
Tgt Ion:202 Resp: 1936

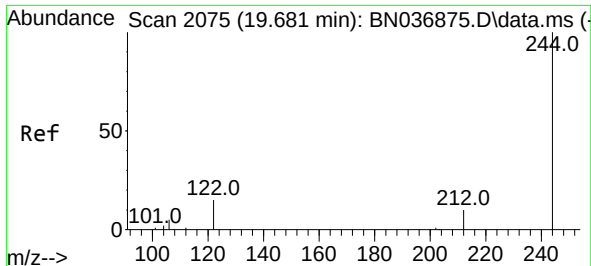
Ion Ratio Lower Upper

202 100

200 22.2 17.1 25.7

203 17.4 14.5 21.7

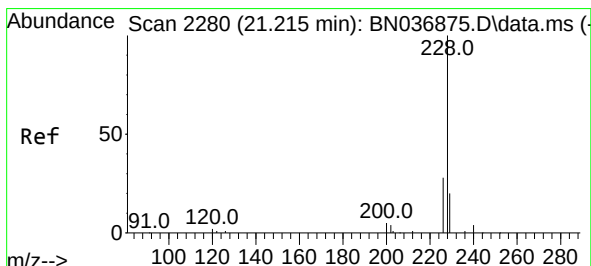
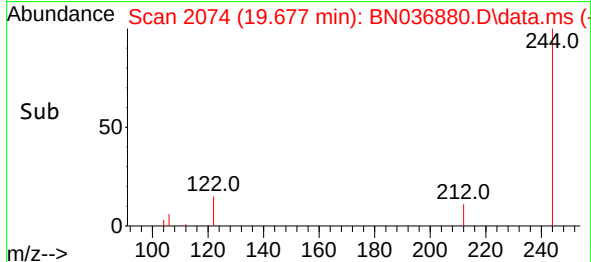
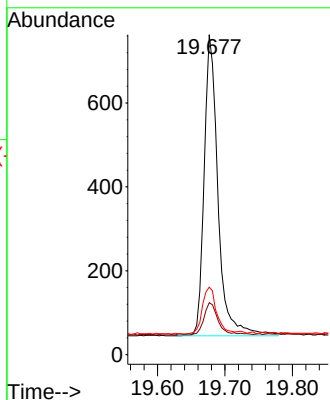
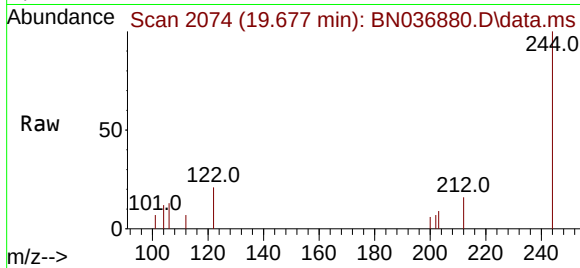




#31
 Terphenyl-d14
 Concen: 0.391 ng
 RT: 19.677 min Scan# 2074
 Delta R.T. -0.005 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

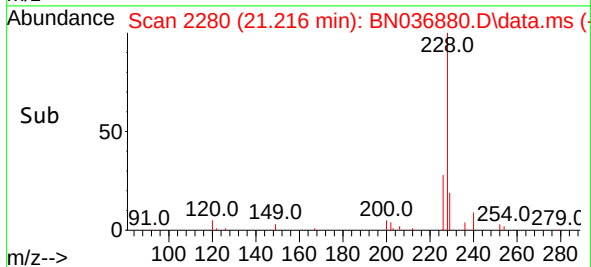
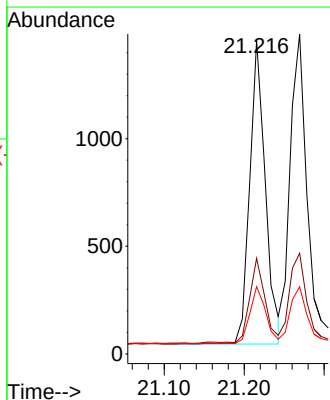
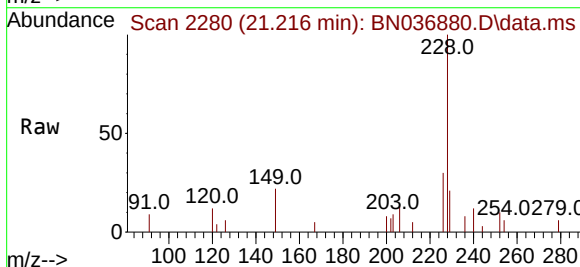
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

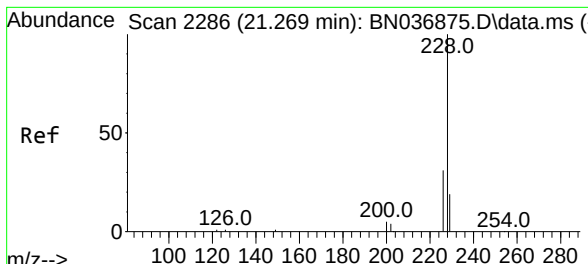
Tgt Ion:244	Resp:	1023
Ion Ratio	Lower	Upper
244	100	
212	16.3	11.6 17.4
122	21.1	14.9 22.3



#32
 Benzo(a)anthracene
 Concen: 0.394 ng
 RT: 21.216 min Scan# 2280
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

Tgt Ion:228	Resp:	1916
Ion Ratio	Lower	Upper
228	100	
226	30.5	24.5 36.7
229	21.5	17.7 26.5

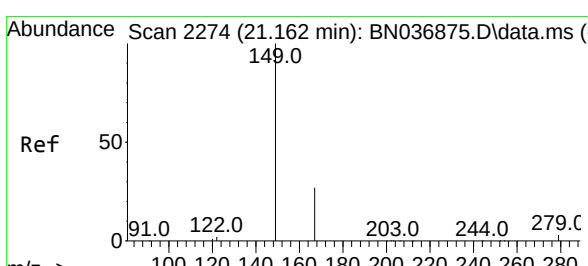
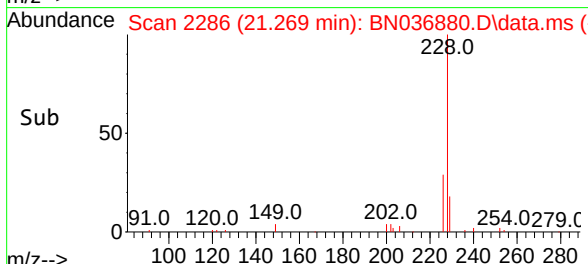
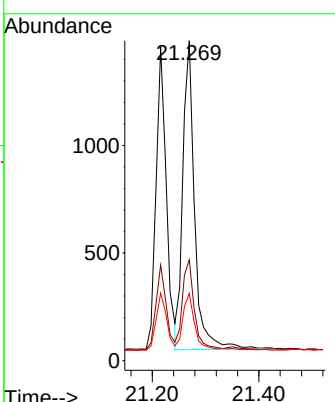
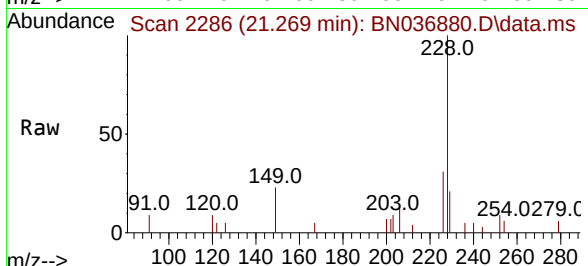




#33
 Chrysene
 Concen: 0.411 ng
 RT: 21.269 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

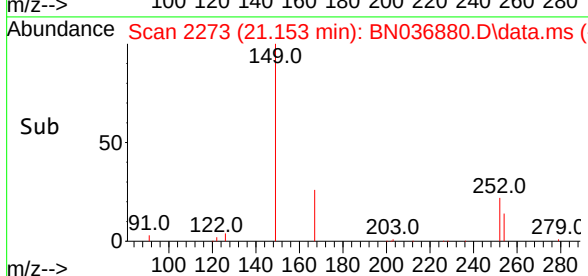
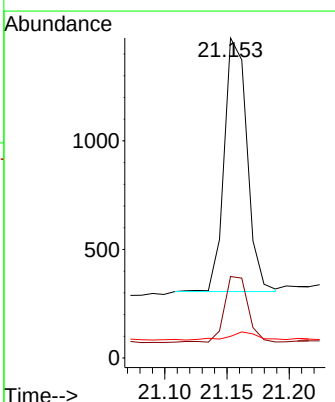
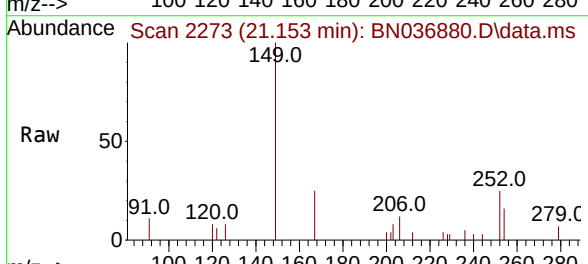
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125

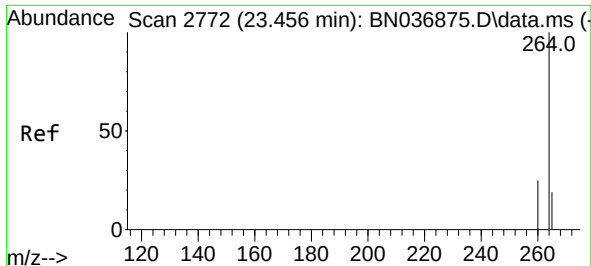
Tgt Ion:	228	Resp:	2205
Ion Ratio	Lower	Upper	
228	100		
226	31.5	26.1	39.1
229	21.0	17.0	25.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.412 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. -0.009 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

Tgt Ion:	149	Resp:	1487
Ion Ratio	Lower	Upper	
149	100		
167	26.6	21.0	31.4
279	4.0	3.6	5.4

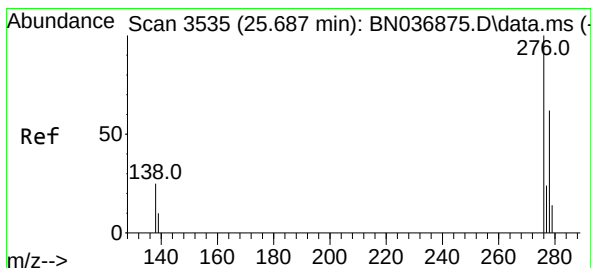
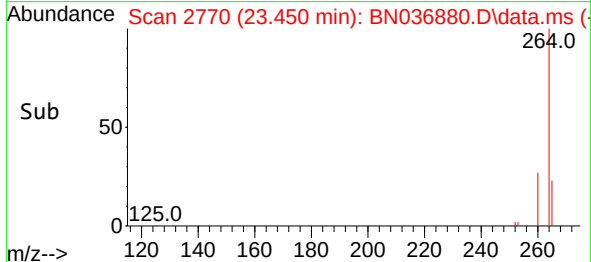
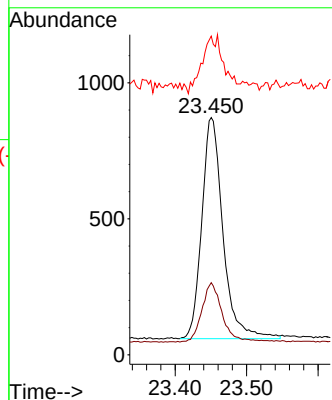
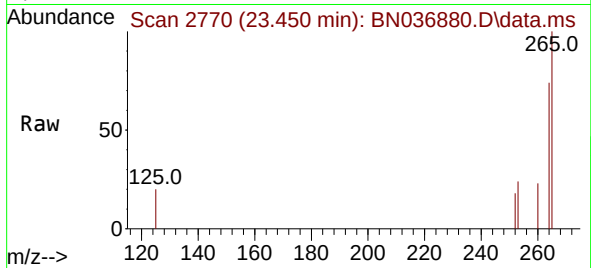




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.450 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

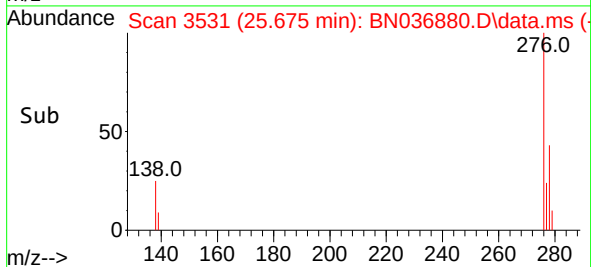
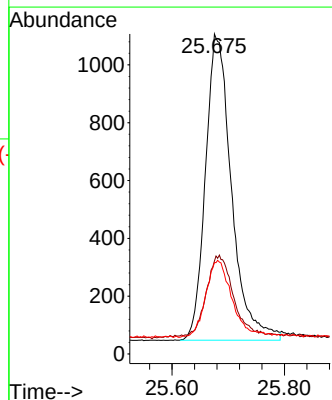
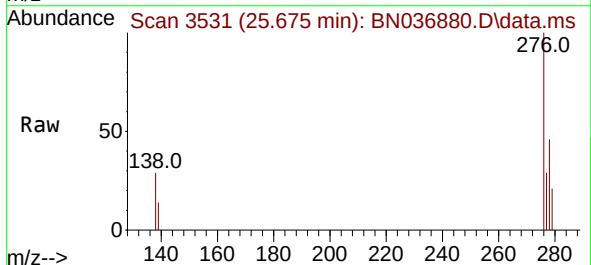
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

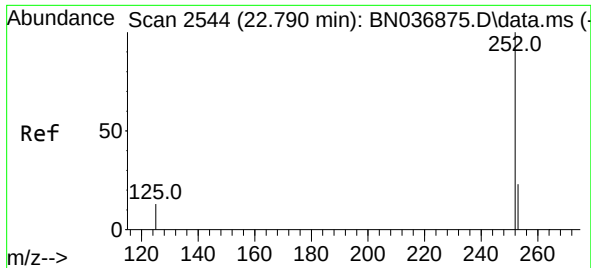
Tgt Ion:264 Resp: 1678
Ion Ratio Lower Upper
264 100
260 30.4 22.9 34.3
265 134.4 88.6 132.8#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.425 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.012 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:276 Resp: 3402
Ion Ratio Lower Upper
276 100
138 27.6 21.0 31.6
277 25.3 19.3 28.9

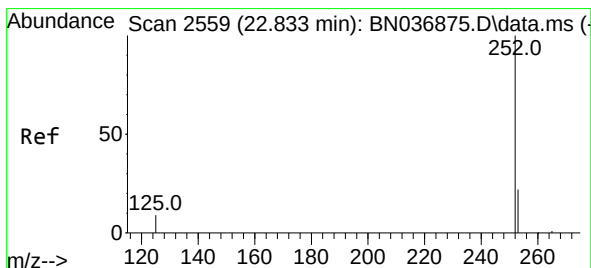
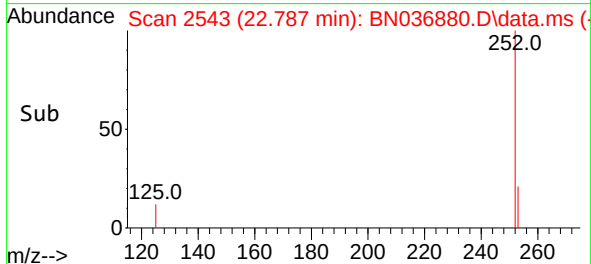
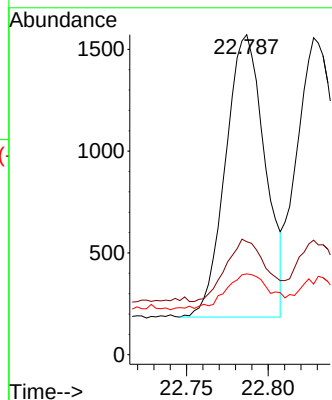
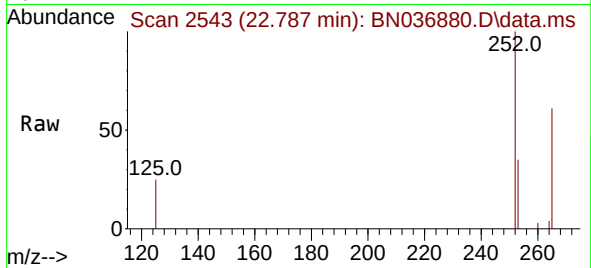




#37
Benzo(b)fluoranthene
Concen: 0.392 ng
RT: 22.787 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

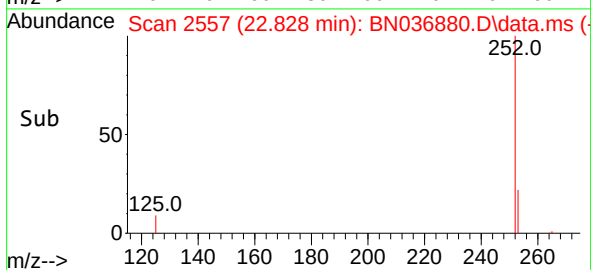
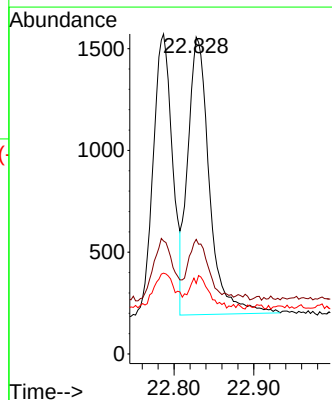
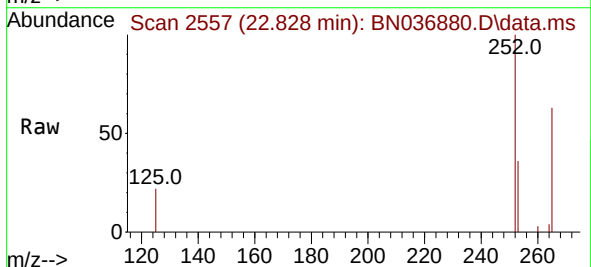
Instrument :
BNA_N
ClientSampleId :
ICVBN041125

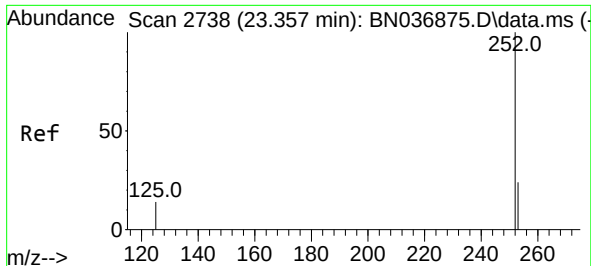
Tgt Ion:252 Resp: 2332
Ion Ratio Lower Upper
252 100
253 35.3 27.0 40.6
125 25.3 17.7 26.5



#38
Benzo(k)fluoranthene
Concen: 0.428 ng
RT: 22.828 min Scan# 2557
Delta R.T. -0.006 min
Lab File: BN036880.D
Acq: 11 Apr 2025 16:18

Tgt Ion:252 Resp: 2571
Ion Ratio Lower Upper
252 100
253 36.2 26.7 40.1
125 22.3 16.9 25.3





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

Instrument :

BNA_N

ClientSampleId :

ICVBN041125

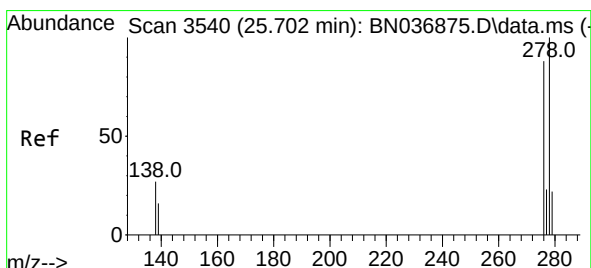
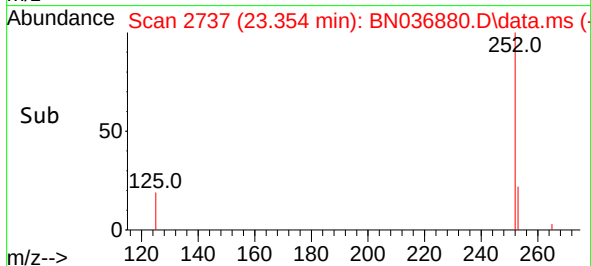
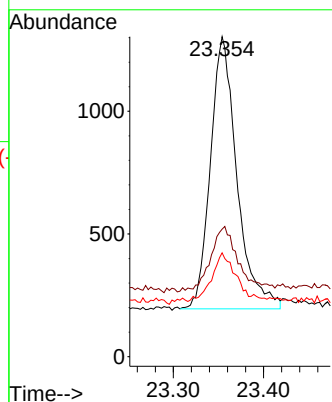
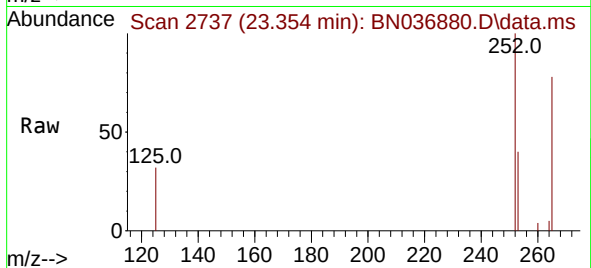
Tgt Ion:252 Resp: 2267

Ion Ratio Lower Upper

252 100

253 39.9 31.5 47.3

125 32.4 22.6 34.0



#40

Dibenzo(a,h)anthracene

Concen: 0.423 ng

RT: 25.699 min Scan# 3539

Delta R.T. -0.003 min

Lab File: BN036880.D

Acq: 11 Apr 2025 16:18

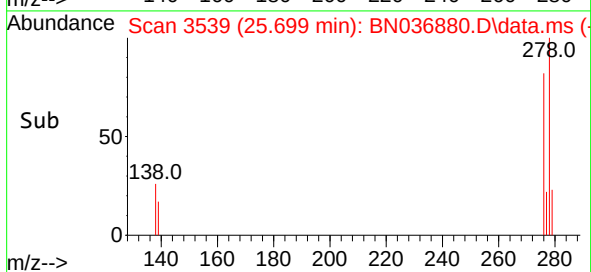
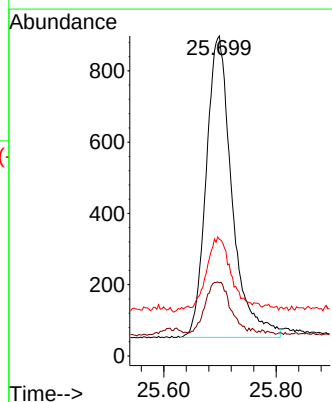
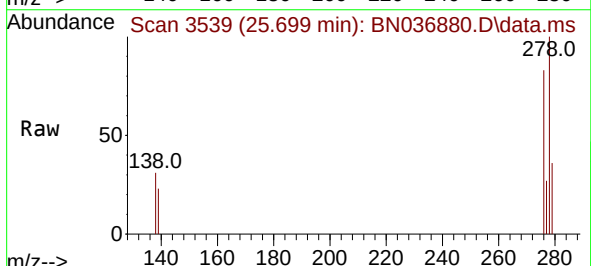
Tgt Ion:278 Resp: 2690

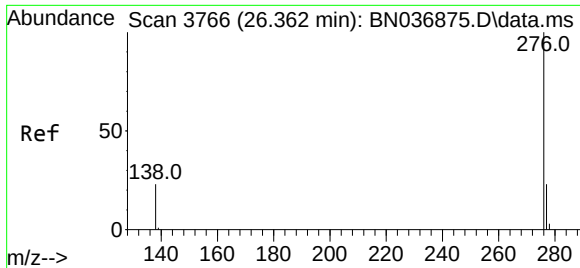
Ion Ratio Lower Upper

278 100

139 22.8 17.6 26.4

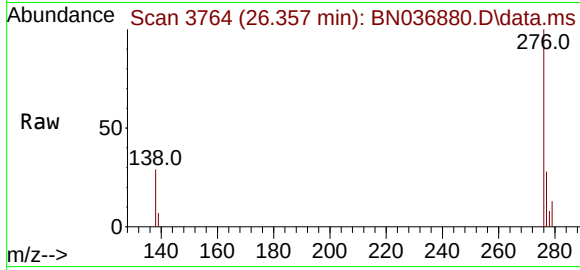
279 36.4 26.7 40.1



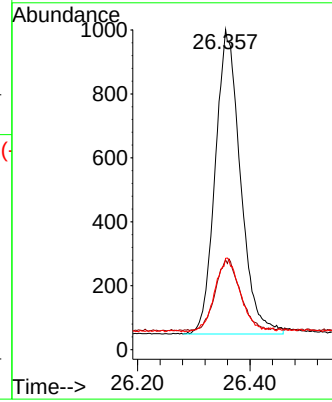
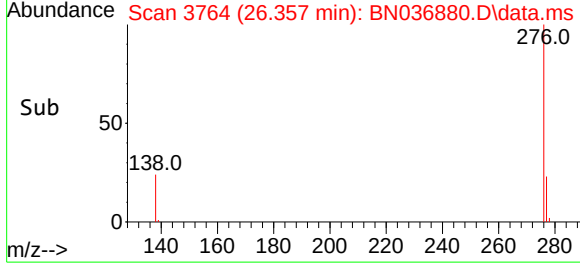


#41
 Benzo(g,h,i)perylene
 Concen: 0.413 ng
 RT: 26.357 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: BN036880.D
 Acq: 11 Apr 2025 16:18

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN041125



Tgt Ion:	276	Resp:	2966
Ion Ratio	Lower	Upper	
276	100		
277	28.1	21.8	32.8
138	28.6	21.6	32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036884.D
 Acq On : 11 Apr 2025 18:45
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Apr 11 23:05:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

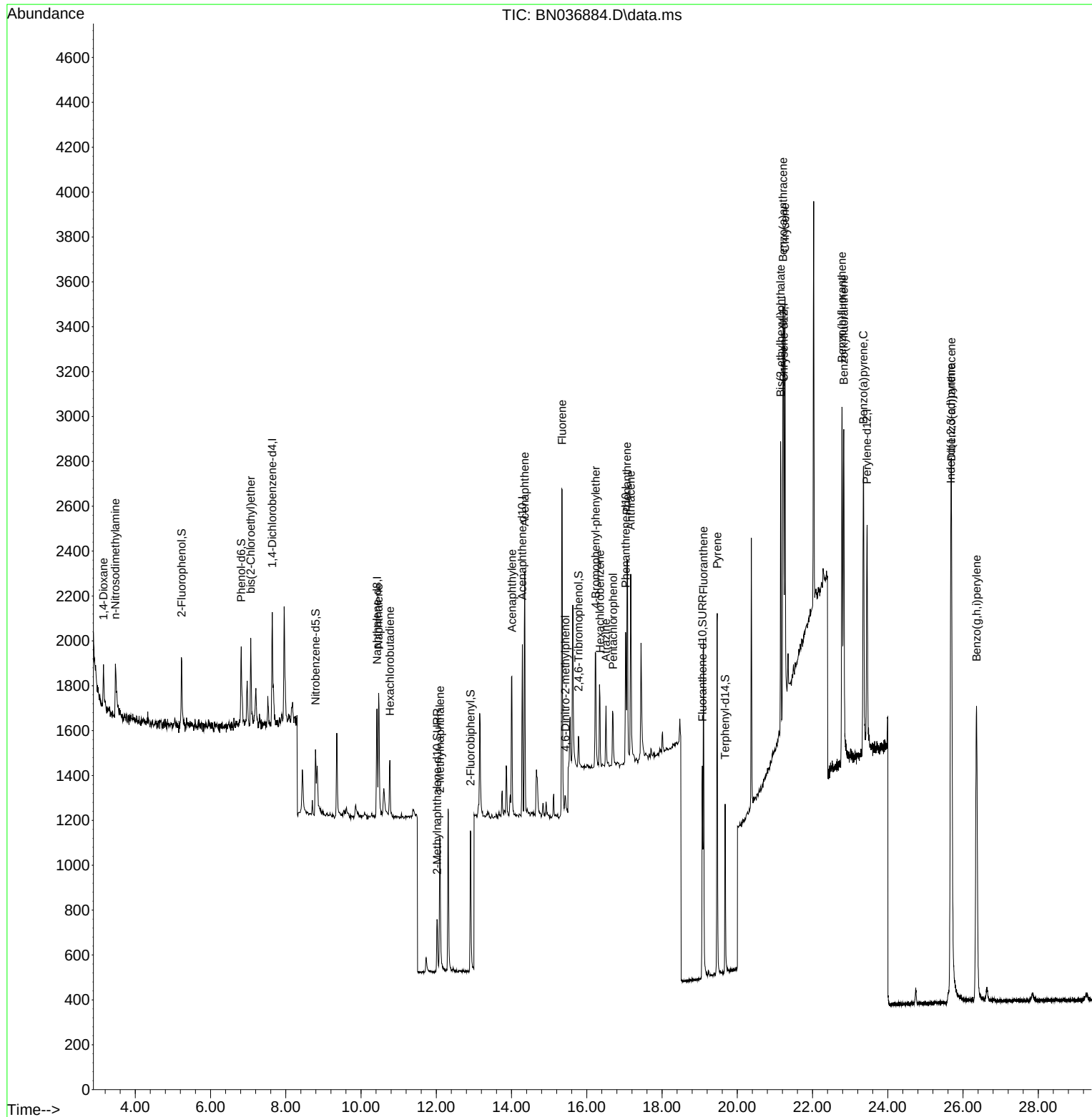
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	254	0.400	ng	0.00
7) Naphthalene-d8	10.425	136	679	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	407	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	865	0.400	ng	0.00
29) Chrysene-d12	21.233	240	1015	0.400	ng	0.00
35) Perylene-d12	23.447	264	1369	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	249	0.417	ng	0.00
5) Phenol-d6	6.816	99	316	0.414	ng	0.00
8) Nitrobenzene-d5	8.792	82	300	0.398	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	405	0.410	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	83	0.423	ng	0.00
15) 2-Fluorobiphenyl	12.908	172	821	0.420	ng	0.00
27) Fluoranthene-d10	19.072	212	1116	0.458	ng	0.00
31) Terphenyl-d14	19.676	244	782	0.406	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	178	0.604	ng	93
3) n-Nitrosodimethylamine	3.472	42	310	0.475	ng	# 93
6) bis(2-Chloroethyl)ether	7.069	93	312	0.416	ng	91
9) Naphthalene	10.468	128	821	0.420	ng	# 92
10) Hexachlorobutadiene	10.767	225	197	0.445	ng	# 97
12) 2-Methylnaphthalene	12.097	142	526	0.418	ng	# 91
16) Acenaphthylene	14.010	152	772	0.408	ng	98
17) Acenaphthene	14.352	154	527	0.428	ng	94
18) Fluorene	15.346	166	705	0.415	ng	99
20) 4,6-Dinitro-2-methylph...	15.432	198	81	0.395	ng	# 67
21) 4-Bromophenyl-phenylether	16.239	248	229	0.442	ng	96
22) Hexachlorobenzene	16.350	284	276	0.450	ng	99
23) Atrazine	16.512	200	253	0.499	ng	91
24) Pentachlorophenol	16.698	266	157	0.489	ng	# 91
25) Phenanthrene	17.070	178	1134	0.437	ng	96
26) Anthracene	17.170	178	1021	0.442	ng	99
28) Fluoranthene	19.100	202	1468	0.450	ng	99
30) Pyrene	19.467	202	1572	0.410	ng	98
32) Benzo(a)anthracene	21.215	228	1507	0.420	ng	97
33) Chrysene	21.269	228	1762	0.446	ng	98
34) Bis(2-ethylhexyl)phtha...	21.152	149	1203	0.452	ng	99
36) Indeno(1,2,3-cd)pyrene	25.675	276	3065	0.469	ng	96
37) Benzo(b)fluoranthene	22.784	252	1963	0.404	ng	96
38) Benzo(k)fluoranthene	22.830	252	1924	0.393	ng	97
39) Benzo(a)pyrene	23.351	252	1900	0.446	ng	# 94
40) Dibenzo(a,h)anthracene	25.693	278	2440	0.470	ng	97
41) Benzo(g,h,i)perylene	26.359	276	2713	0.463	ng	98

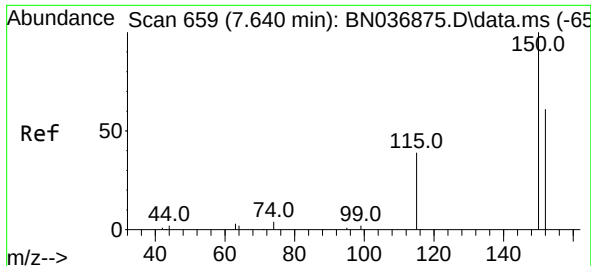
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036884.D
Acq On : 11 Apr 2025 18:45
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Apr 11 23:05:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration



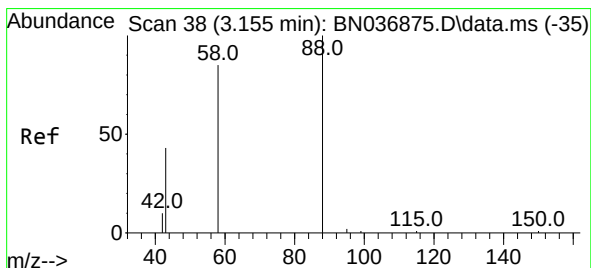
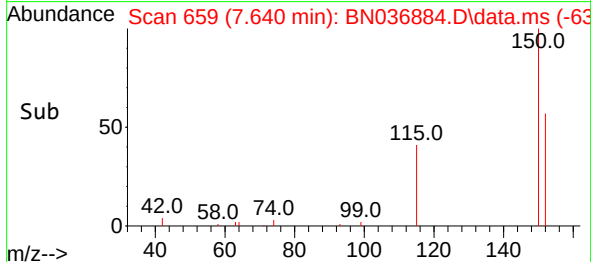
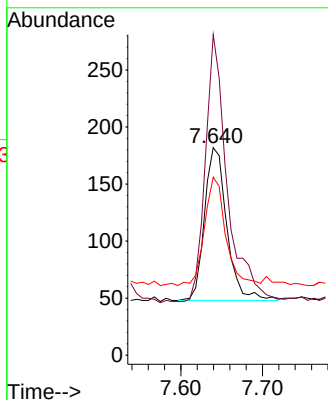
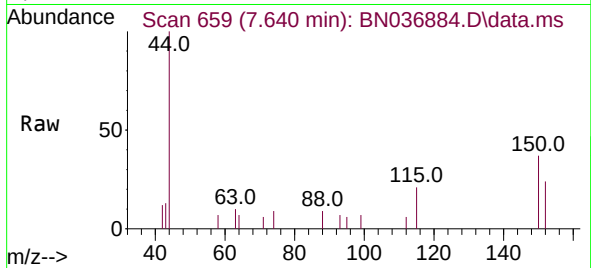


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.640 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 152 Resp: 254

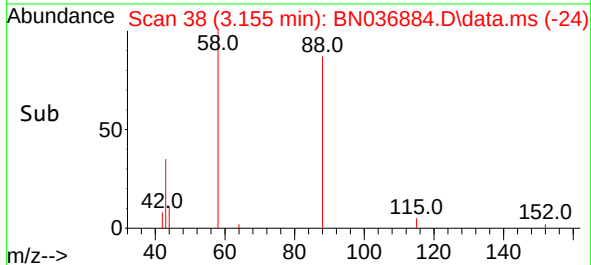
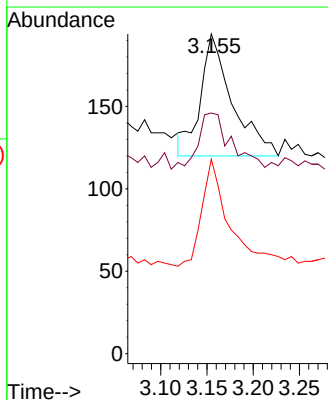
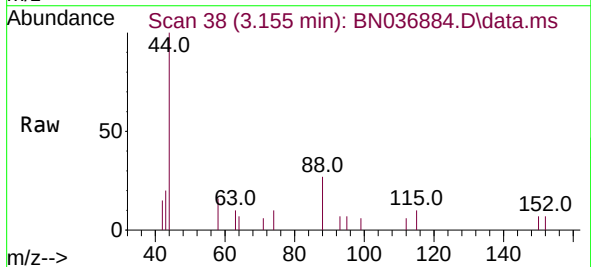
Ion	Ratio	Lower	Upper
152	100		
150	154.4	123.0	184.6
115	85.7	60.1	90.1

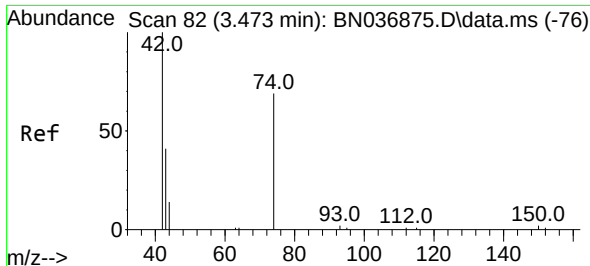


#2
1,4-Dioxane
Concen: 0.604 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion: 88 Resp: 178

Ion	Ratio	Lower	Upper
88	100		
43	42.7	39.2	58.8
58	74.7	63.5	95.3

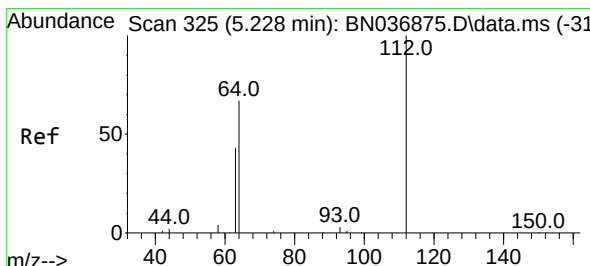
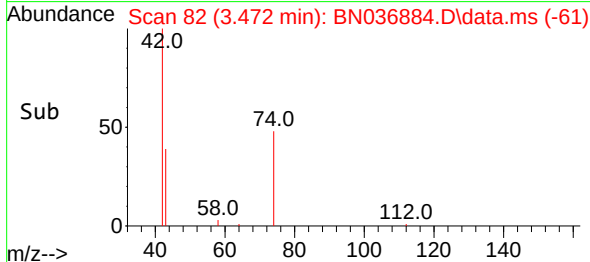
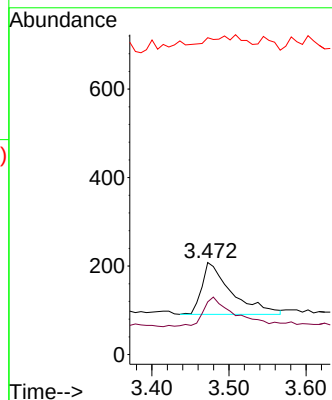
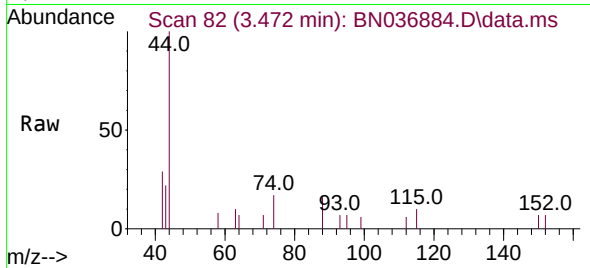




#3
n-Nitrosodimethylamine
Concen: 0.475 ng
RT: 3.472 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

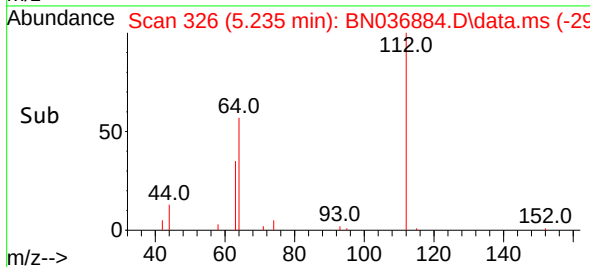
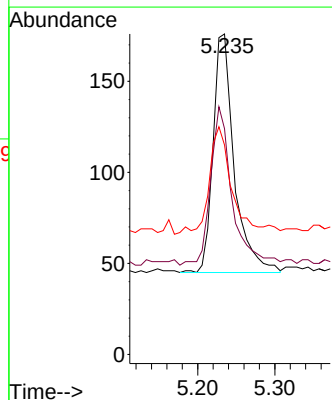
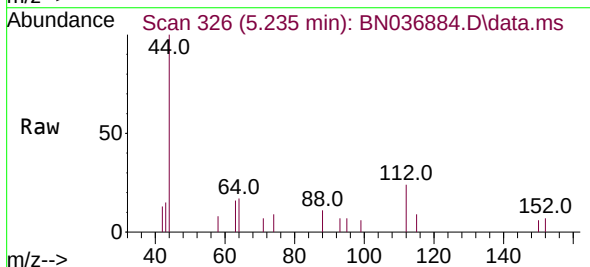
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

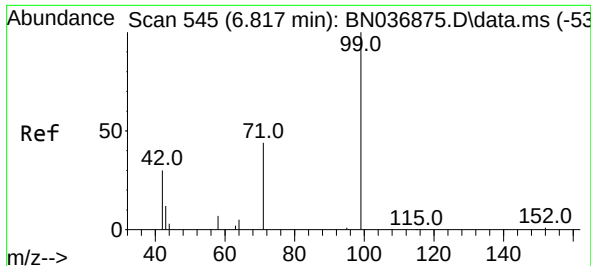
Tgt Ion: 42 Resp: 310
Ion Ratio Lower Upper
42 100
74 62.6 54.6 81.8
44 0.0 0.0 0.0



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.235 min Scan# 326
Delta R.T. 0.007 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion: 112 Resp: 249
Ion Ratio Lower Upper
112 100
64 69.1 54.0 81.0
63 45.8 35.1 52.7

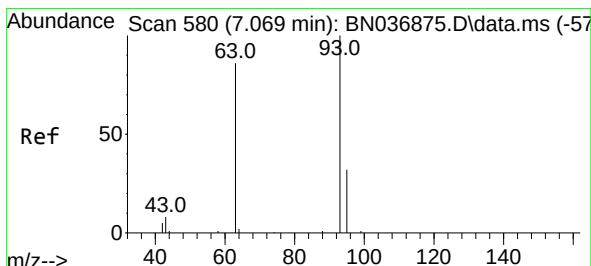
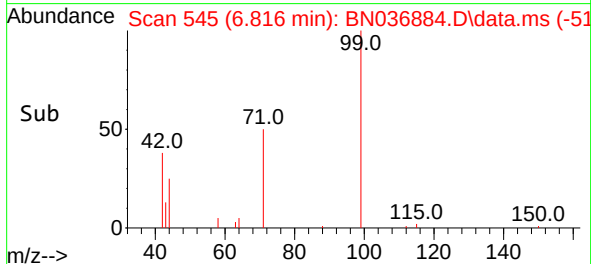
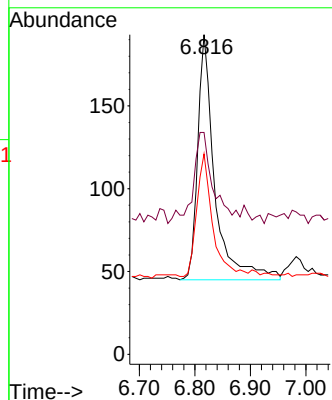
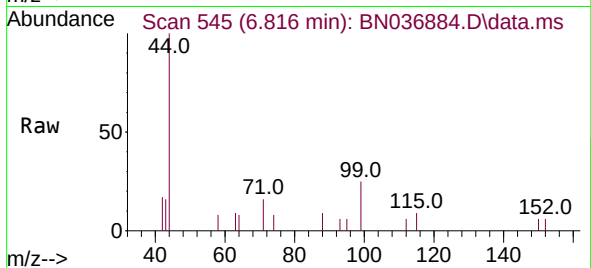




#5
Phenol-d6
Concen: 0.414 ng
RT: 6.816 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

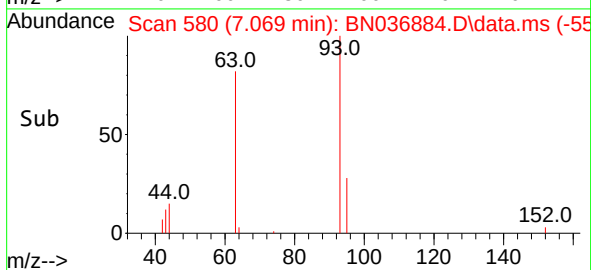
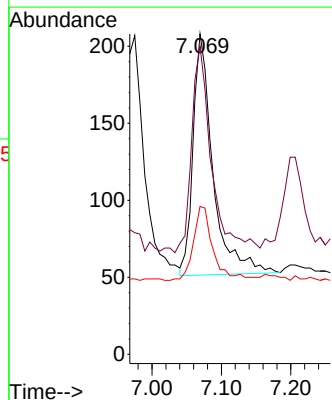
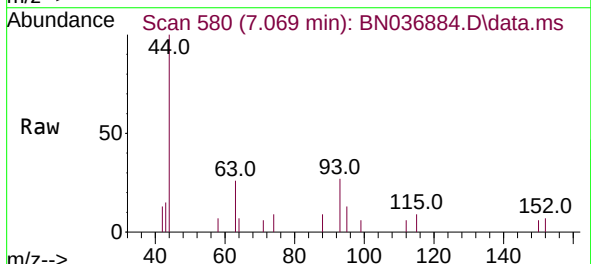
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

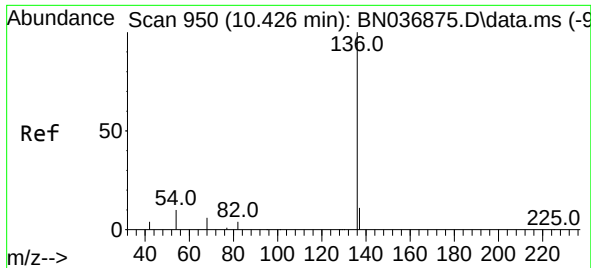
Tgt Ion: 99 Resp: 316
Ion Ratio Lower Upper
99 100
42 42.4 30.9 46.3
71 46.2 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.416 ng
RT: 7.069 min Scan# 580
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion: 93 Resp: 312
Ion Ratio Lower Upper
93 100
63 85.6 76.4 114.6
95 30.1 26.1 39.1

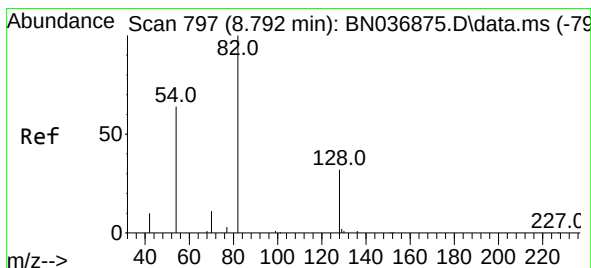
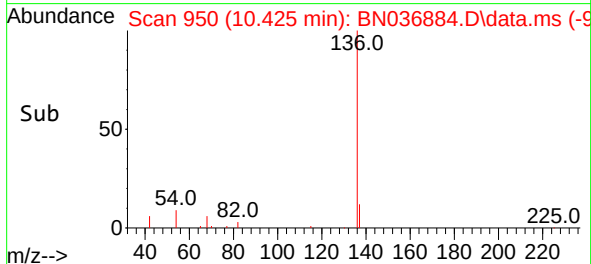
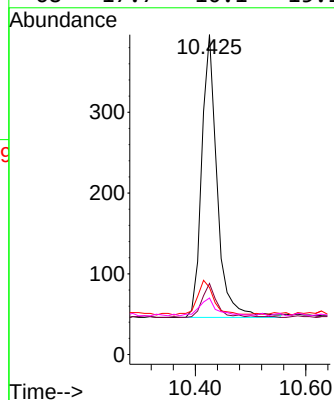
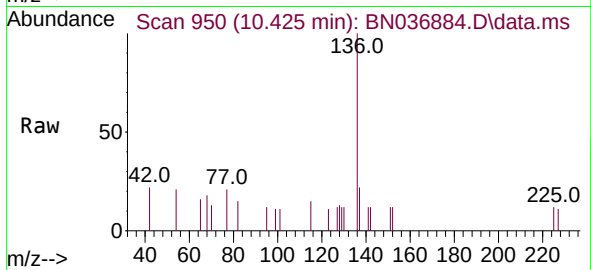




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.425 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

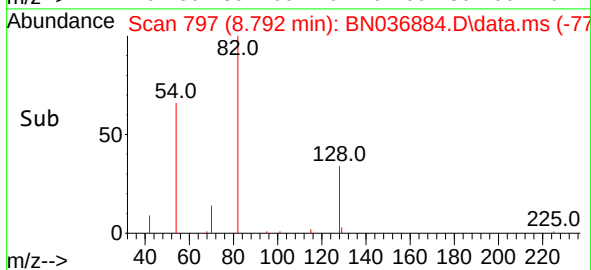
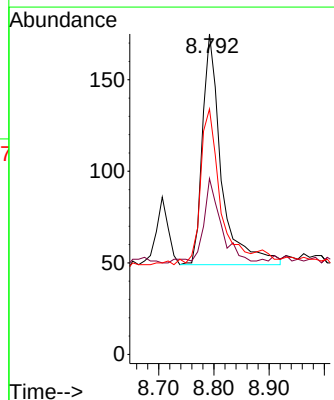
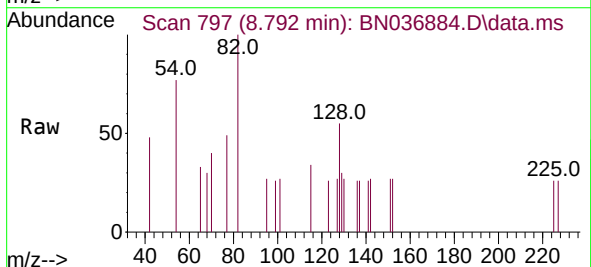
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

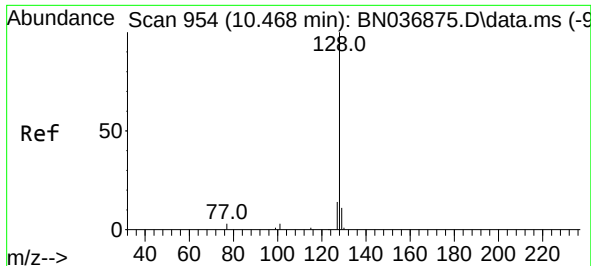
Tgt Ion:	136	Resp:	679
Ion	Ratio	Lower	Upper
136	100		
137	22.2	13.5	20.3#
54	21.0	12.8	19.2#
68	17.7	10.1	15.1#



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.792 min Scan# 797
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	82	Resp:	300
Ion	Ratio	Lower	Upper
82	100		
128	54.9	35.5	53.3#
54	76.6	56.2	84.4

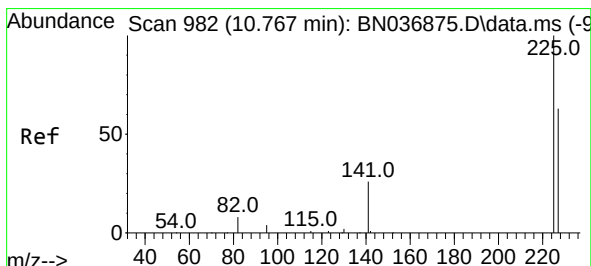
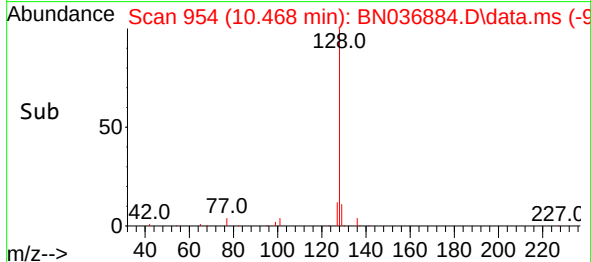
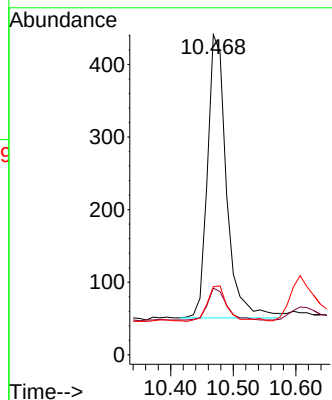
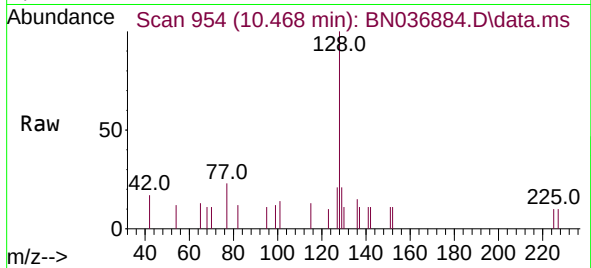




#9
Naphthalene
Concen: 0.420 ng
RT: 10.468 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

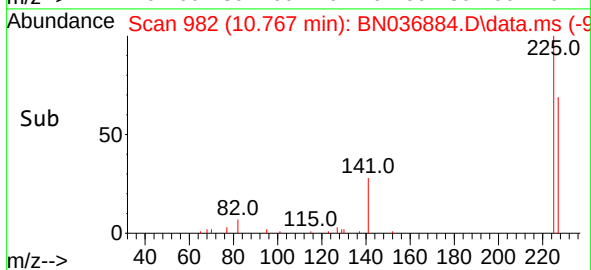
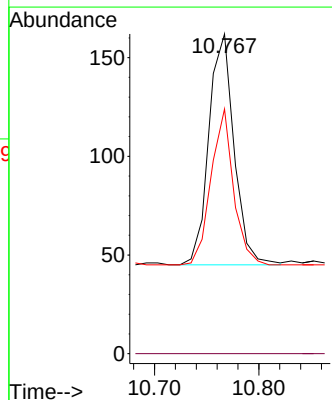
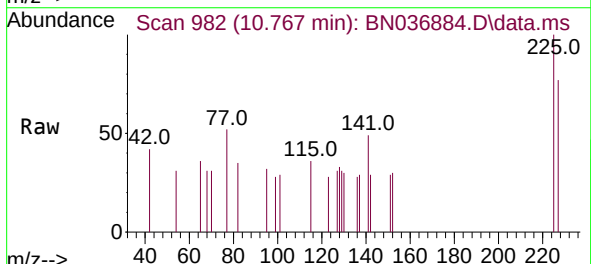
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

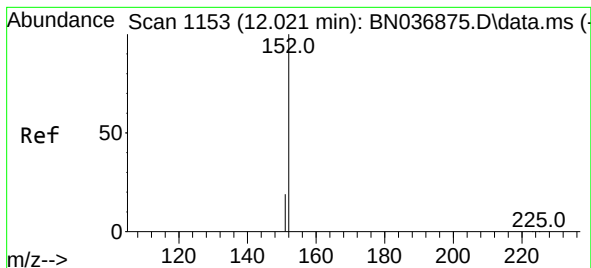
Tgt Ion:	128	Resp:	821
Ion	Ratio	Lower	Upper
128	100		
129	20.9	12.9	19.3#
127	21.3	15.0	22.6



#10
Hexachlorobutadiene
Concen: 0.445 ng
RT: 10.767 min Scan# 982
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	225	Resp:	197
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	60.4	50.5	75.7

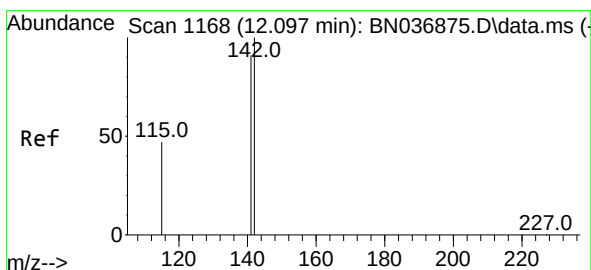
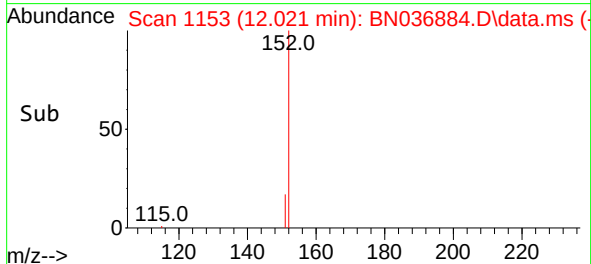
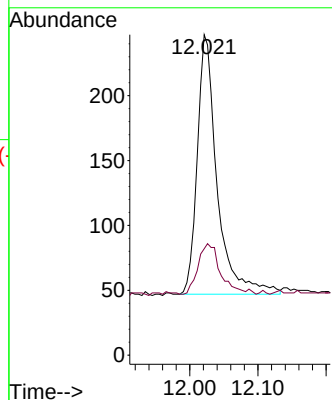
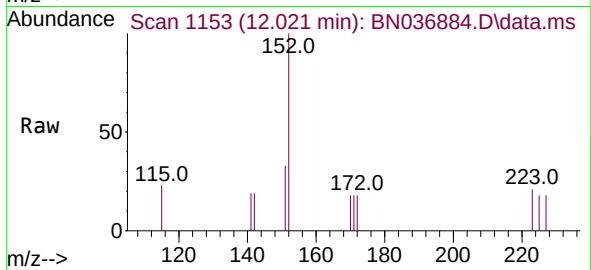




#11
2-Methylnaphthalene-d10
Concen: 0.410 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

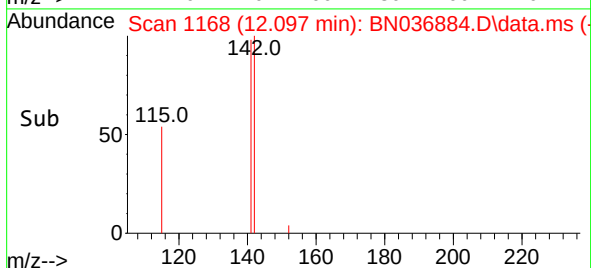
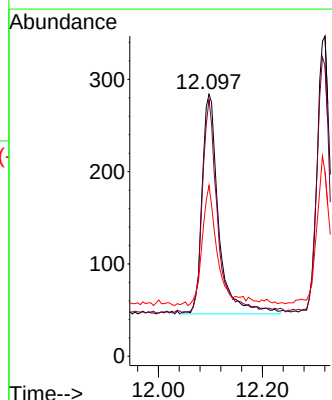
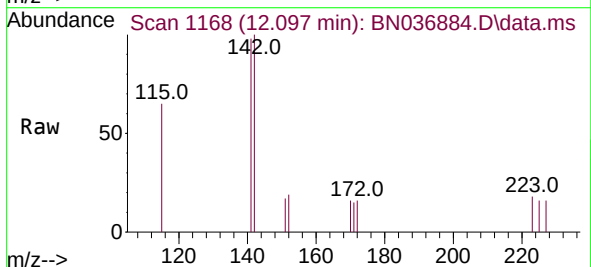
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

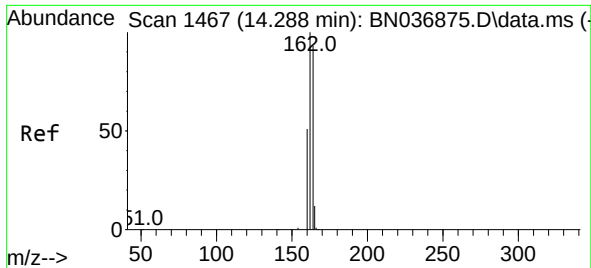
Tgt Ion:152 Resp: 405
Ion Ratio Lower Upper
152 100
151 22.0 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.418 ng
RT: 12.097 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:142 Resp: 526
Ion Ratio Lower Upper
142 100
141 97.9 73.8 110.8
115 65.1 43.3 64.9#

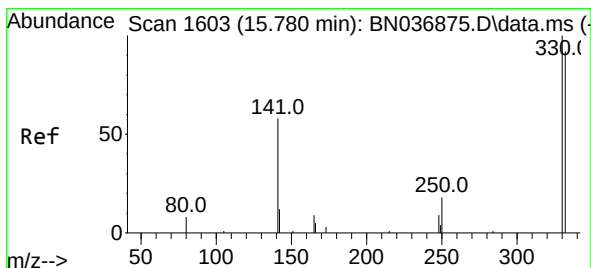
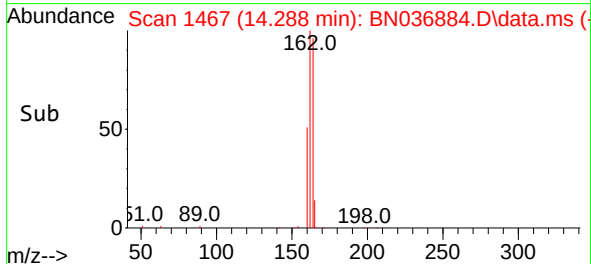
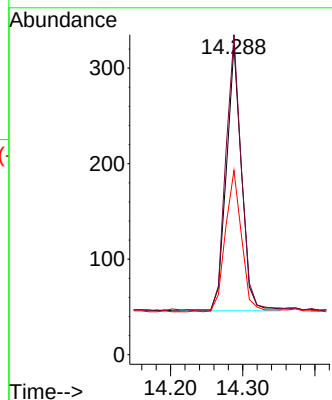
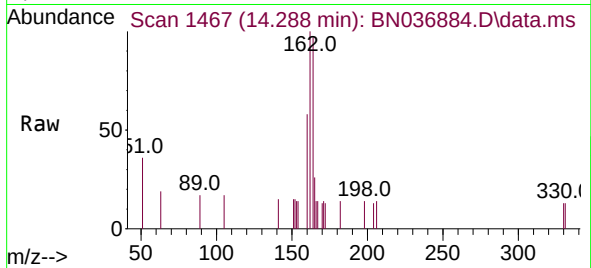




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

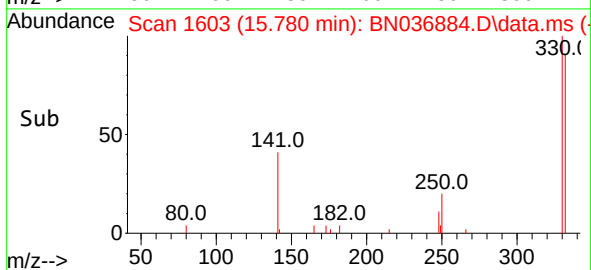
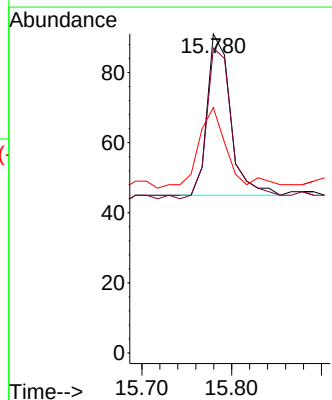
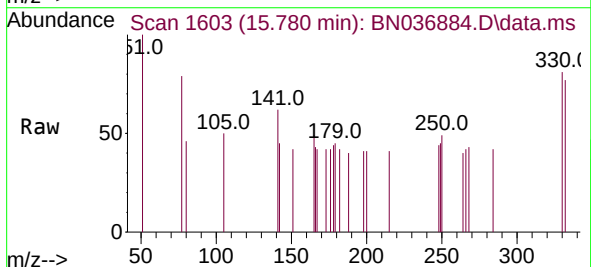
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

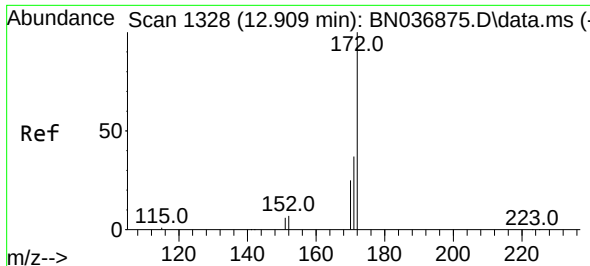
Tgt Ion:164 Resp: 407
Ion Ratio Lower Upper
164 100
162 103.4 85.7 128.5
160 59.6 46.9 70.3



#14
2,4,6-Tribromophenol
Concen: 0.423 ng
RT: 15.780 min Scan# 1603
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:330 Resp: 83
Ion Ratio Lower Upper
330 100
332 103.6 87.0 130.6
141 63.9 45.3 67.9

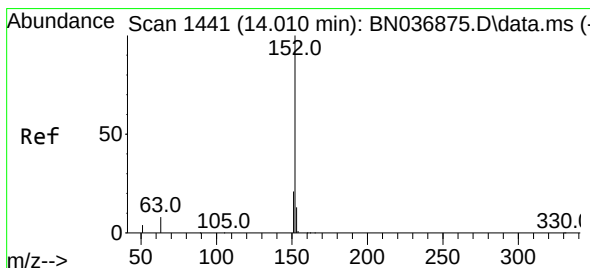
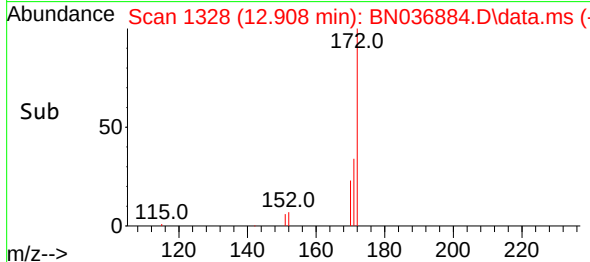
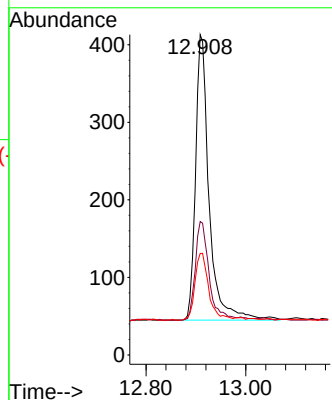
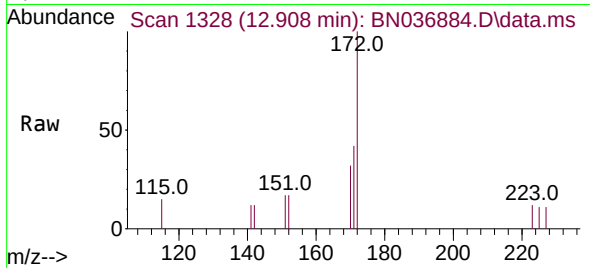




#15
2-Fluorobiphenyl
Concen: 0.420 ng
RT: 12.908 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

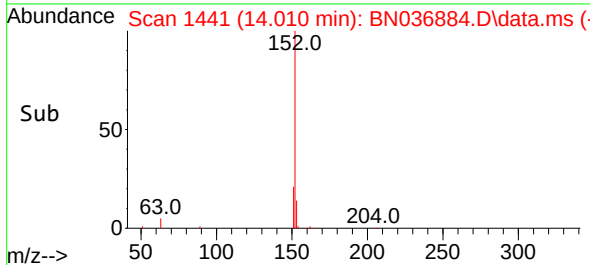
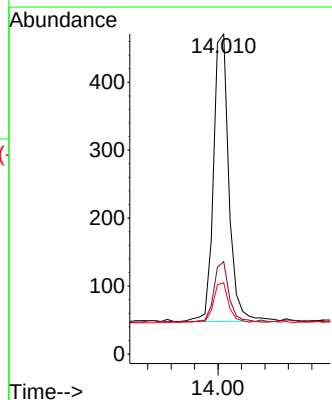
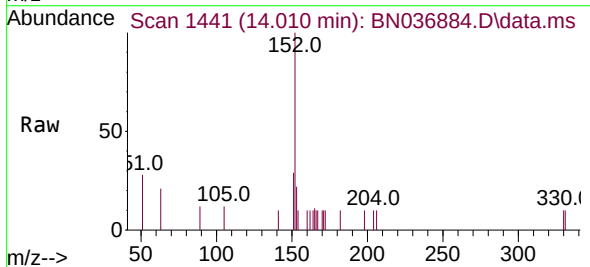
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

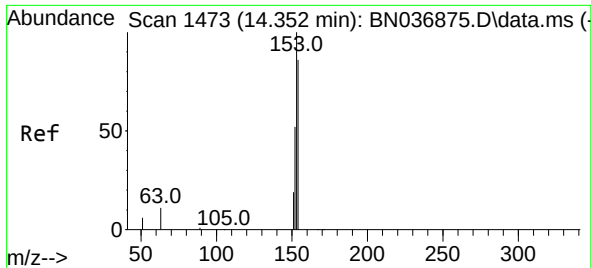
Tgt Ion:172	Resp:	821	
Ion	Ratio	Lower	Upper
172	100		
171	41.6	32.7	49.1
170	31.7	23.3	34.9



#16
Acenaphthylene
Concen: 0.408 ng
RT: 14.010 min Scan# 1441
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt	Ion:152	Resp:	772
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.4	24.6
153	14.6	10.3	15.5

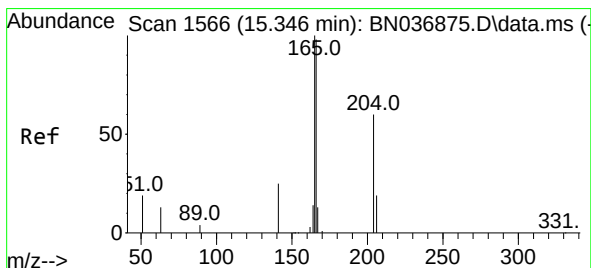
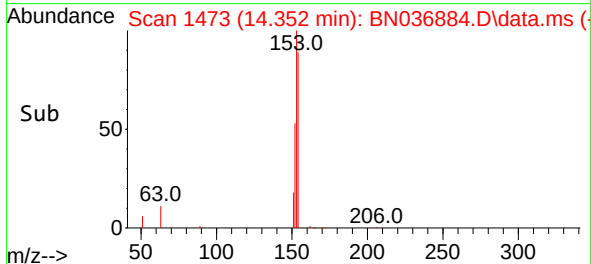
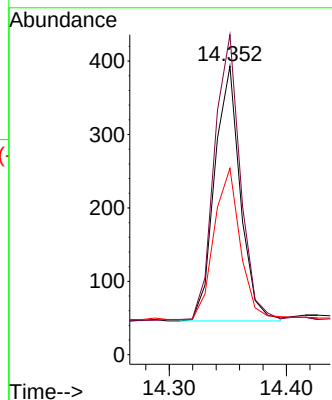
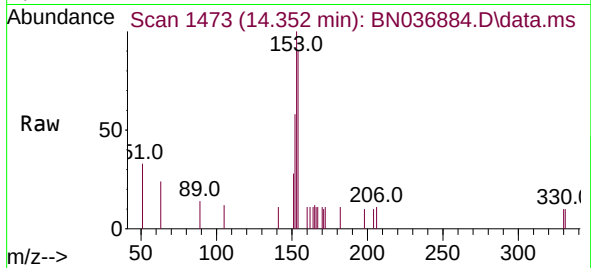




#17
Acenaphthene
Concen: 0.428 ng
RT: 14.352 min Scan# 1473
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

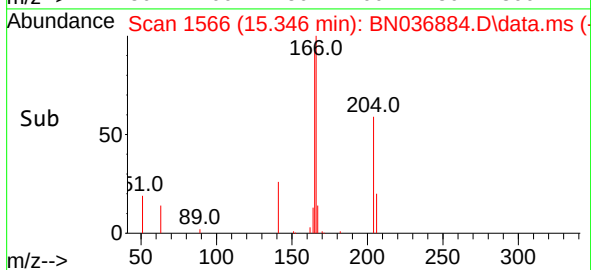
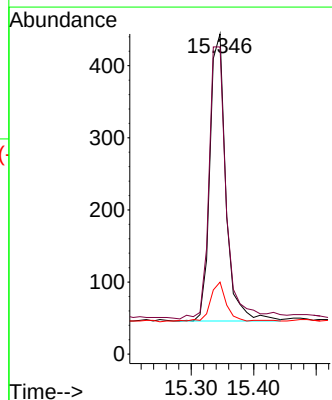
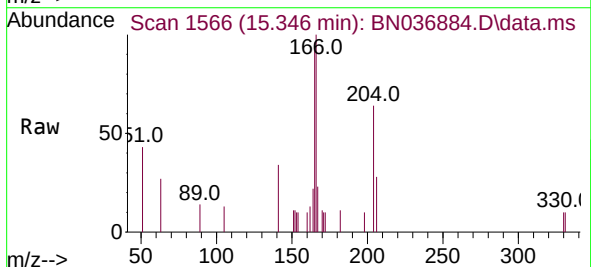
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

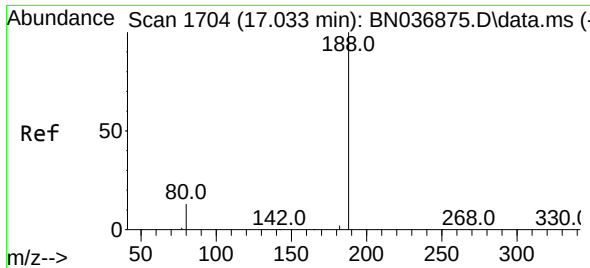
Tgt Ion:154 Resp: 527
Ion Ratio Lower Upper
154 100
153 114.8 97.8 146.6
152 62.2 52.7 79.1



#18
Fluorene
Concen: 0.415 ng
RT: 15.346 min Scan# 1566
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:166 Resp: 705
Ion Ratio Lower Upper
166 100
165 103.1 83.2 124.8
167 14.3 11.1 16.7

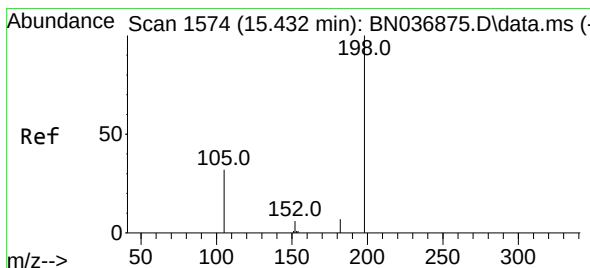
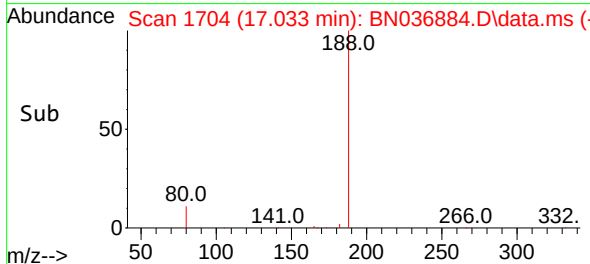
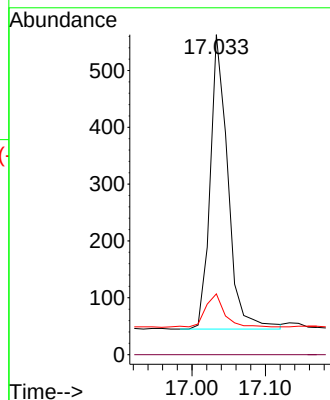
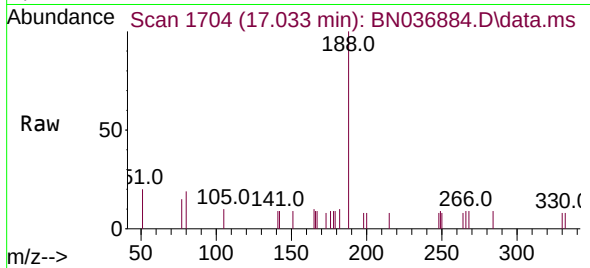




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

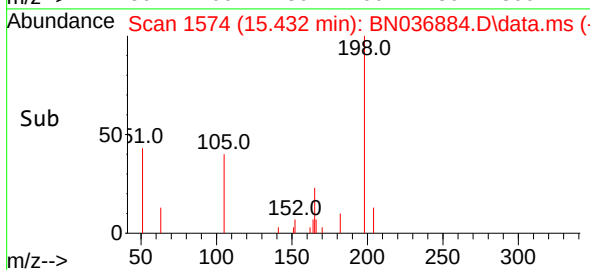
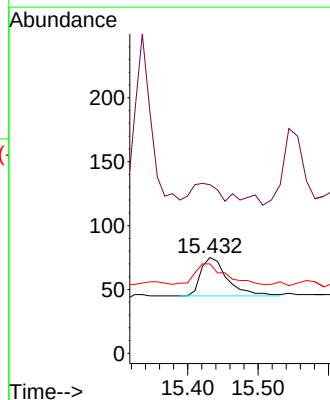
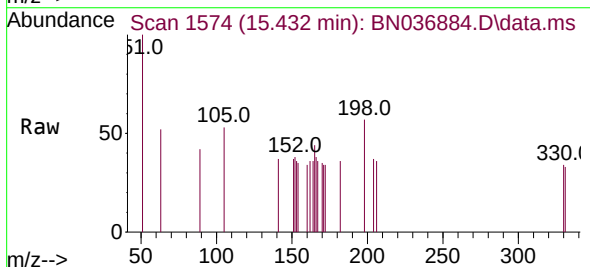
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

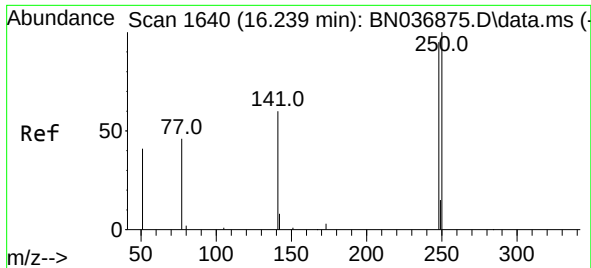
Tgt Ion:188	Resp:	865
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	19.0	13.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.395 ng
RT: 15.432 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:198	Resp:	81
Ion Ratio	Lower	Upper
198	100	
51	176.0	107.6
105	93.3	55.2

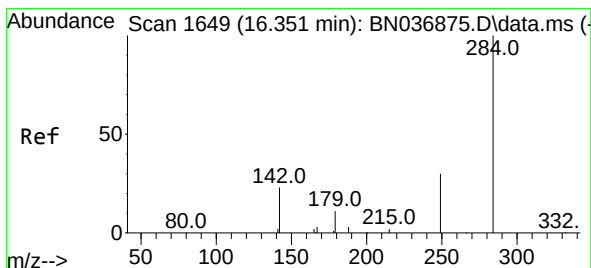
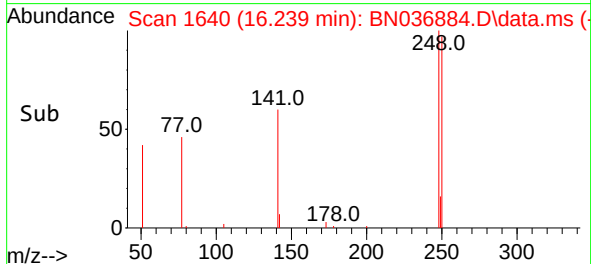
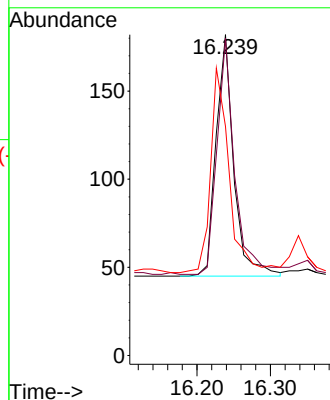
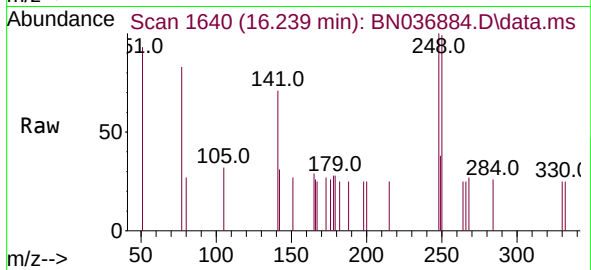




#21
4-Bromophenyl-phenylether
Concen: 0.442 ng
RT: 16.239 min Scan# 1640
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

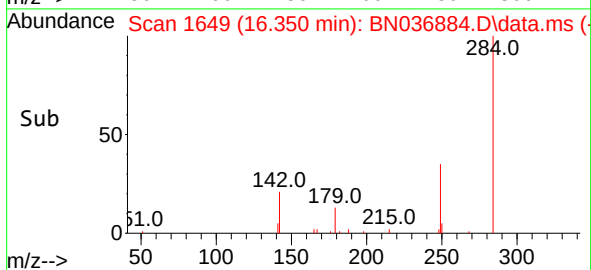
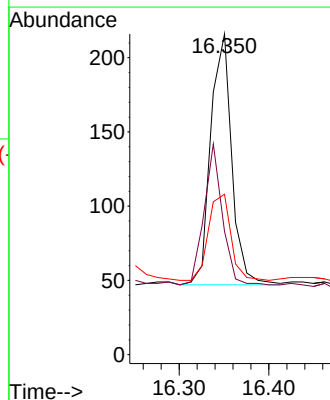
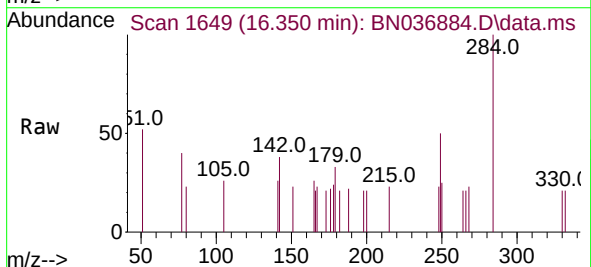
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

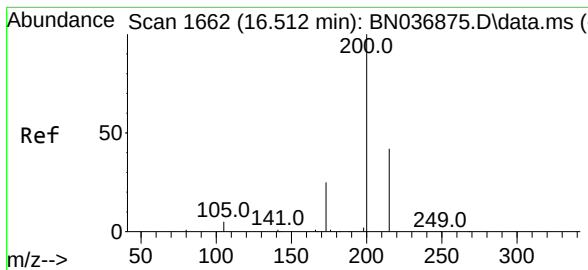
Tgt Ion:	248	Resp:	229
Ion	Ratio	Lower	Upper
248	100		
250	98.9	83.5	125.3
141	71.4	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.450 ng
RT: 16.350 min Scan# 1649
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	284	Resp:	276
Ion	Ratio	Lower	Upper
284	100		
142	48.2	37.7	56.5
249	36.6	29.0	43.6

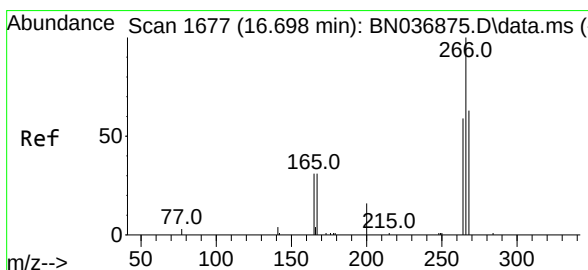
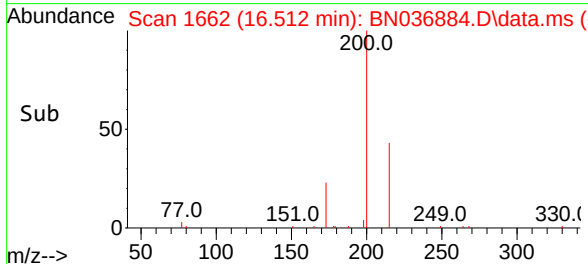
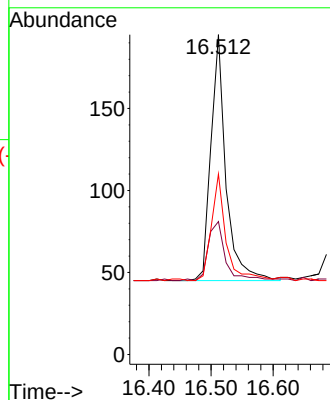
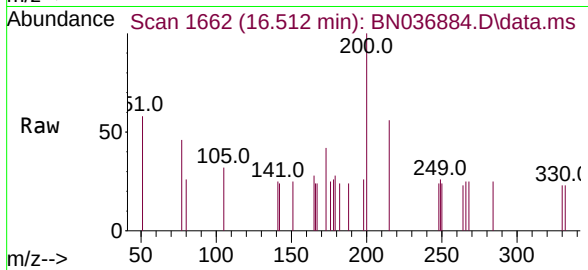




#23
 Atrazine
 Concen: 0.499 ng
 RT: 16.512 min Scan# 1662
 Delta R.T. -0.000 min
 Lab File: BN036884.D
 Acq: 11 Apr 2025 18:45

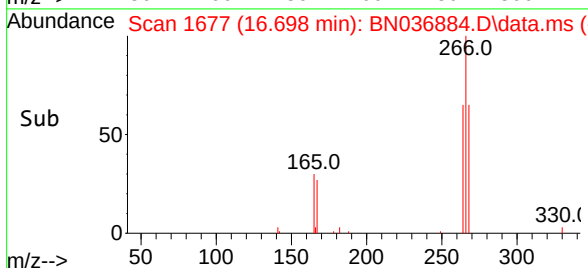
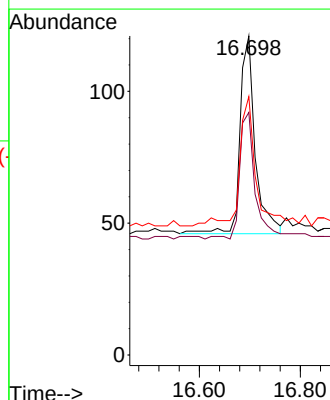
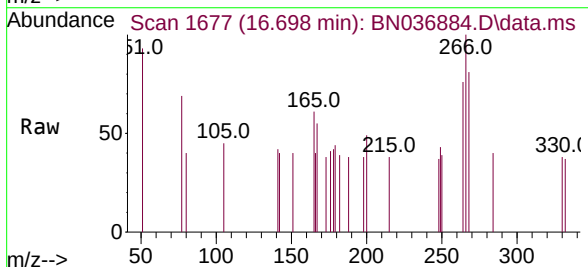
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

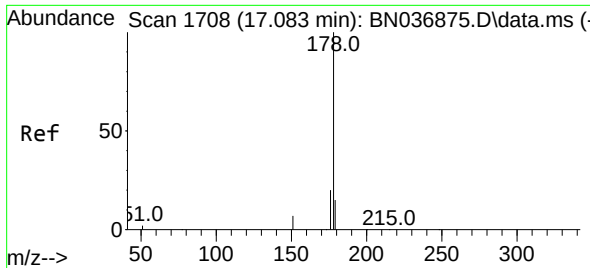
Tgt Ion:	200	Resp:	253
Ion Ratio	Lower	Upper	
200	100		
173	41.5	28.6	43.0
215	56.4	40.5	60.7



#24
 Pentachlorophenol
 Concen: 0.489 ng
 RT: 16.698 min Scan# 1677
 Delta R.T. -0.000 min
 Lab File: BN036884.D
 Acq: 11 Apr 2025 18:45

Tgt Ion:	266	Resp:	157
Ion Ratio	Lower	Upper	
266	100		
264	69.4	44.6	66.8
268	64.3	51.8	77.6

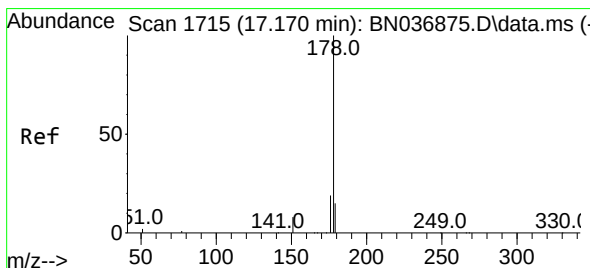
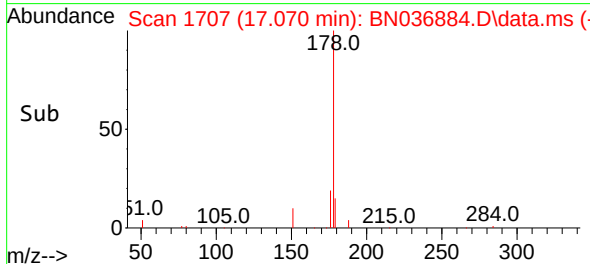
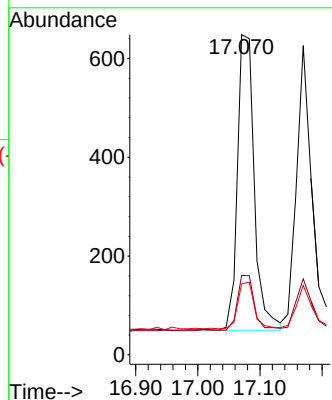
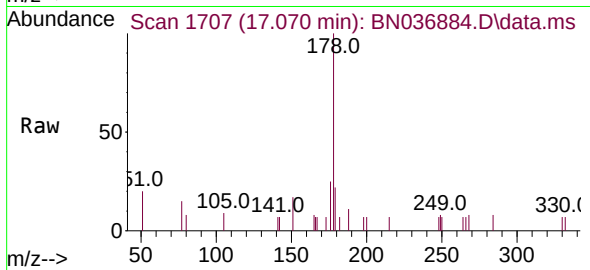




#25
Phenanthrene
Concen: 0.437 ng
RT: 17.070 min Scan# 1707
Delta R.T. -0.013 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

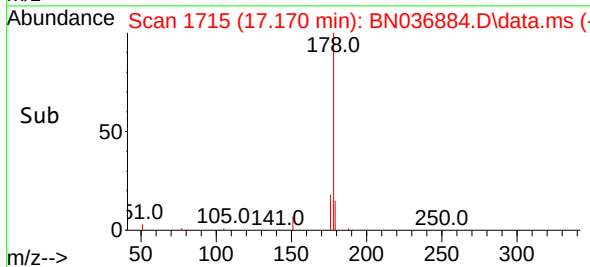
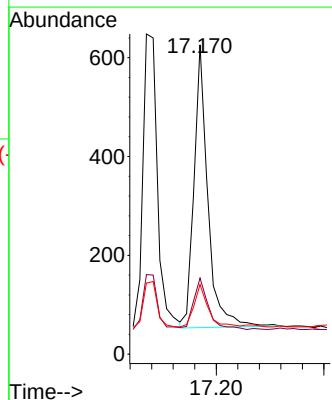
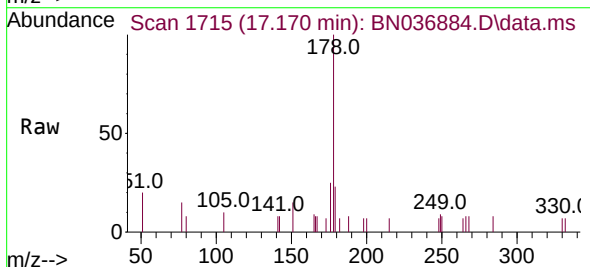
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

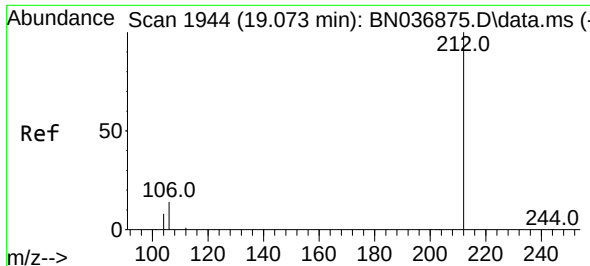
Tgt Ion:178 Resp: 1134
Ion Ratio Lower Upper
178 100
176 18.4 16.6 25.0
179 15.1 12.8 19.2



#26
Anthracene
Concen: 0.442 ng
RT: 17.170 min Scan# 1715
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:178 Resp: 1021
Ion Ratio Lower Upper
178 100
176 19.6 15.8 23.6
179 15.3 12.6 18.8

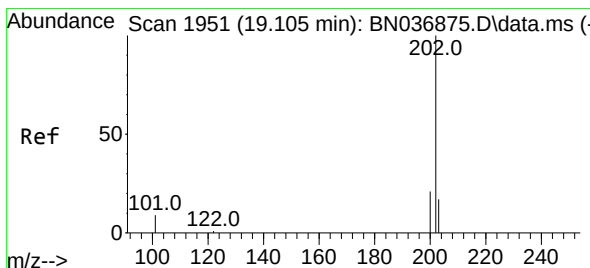
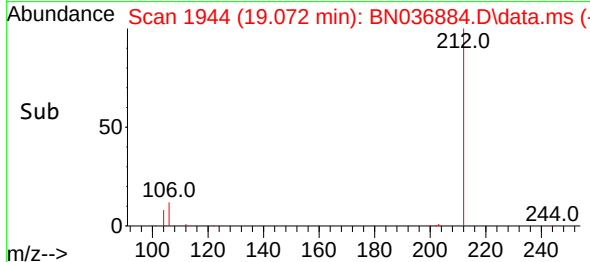
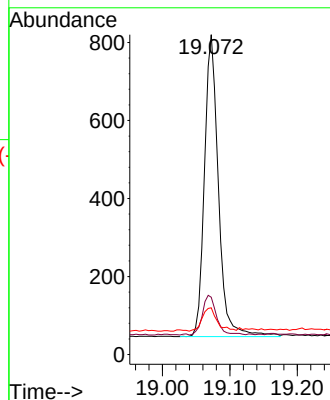
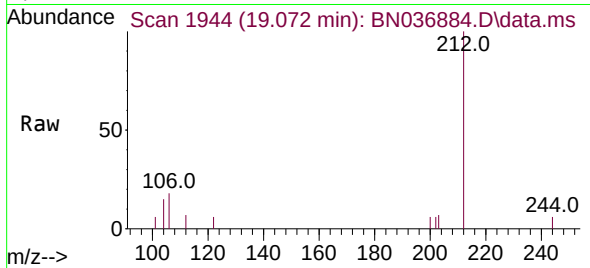




#27
Fluoranthene-d10
Concen: 0.458 ng
RT: 19.072 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

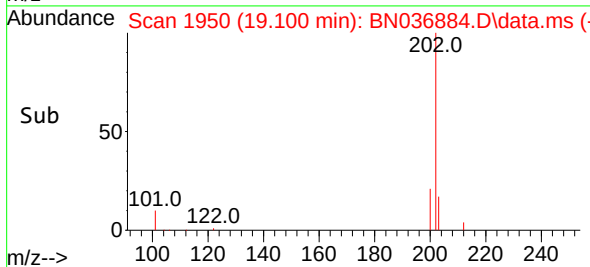
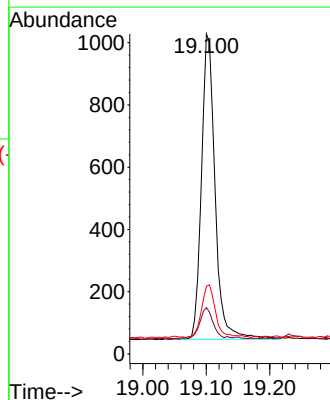
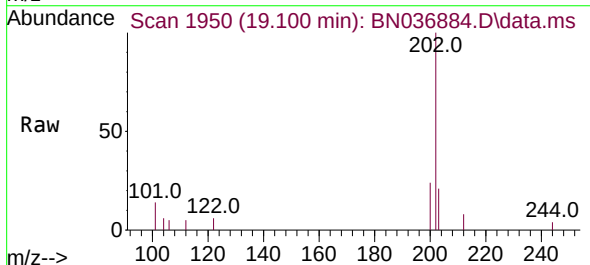
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

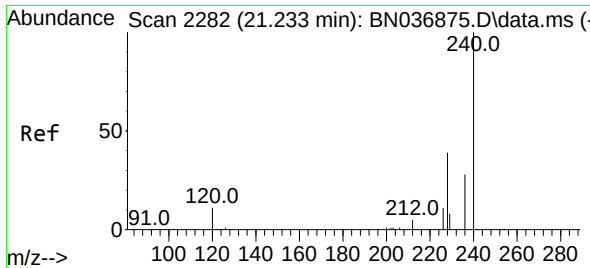
Tgt Ion:212 Resp: 1116
Ion Ratio Lower Upper
212 100
106 13.3 11.2 16.8
104 8.2 7.5 11.3



#28
Fluoranthene
Concen: 0.450 ng
RT: 19.100 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:202 Resp: 1468
Ion Ratio Lower Upper
202 100
101 10.1 8.5 12.7
203 17.6 13.8 20.6

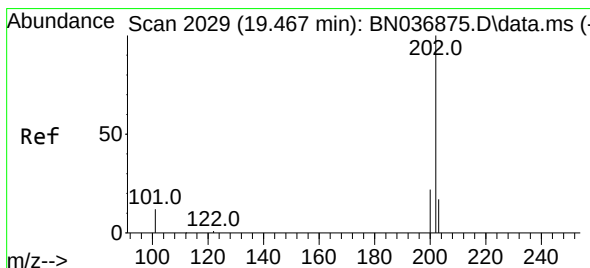
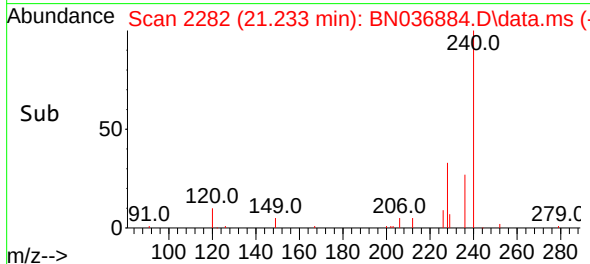
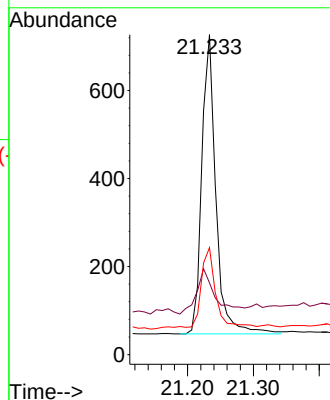
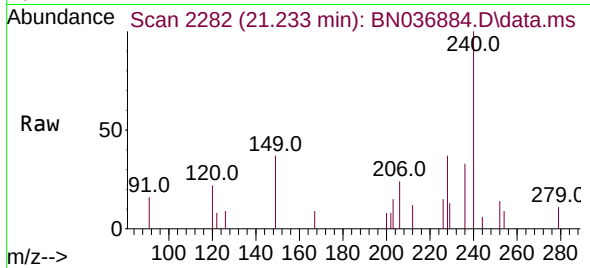




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.233 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

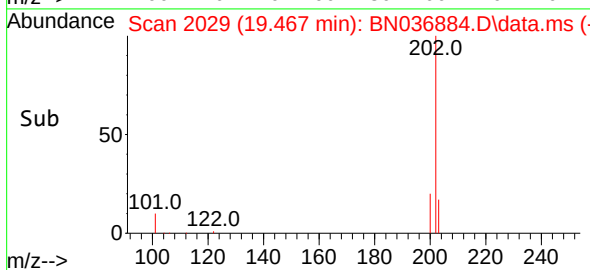
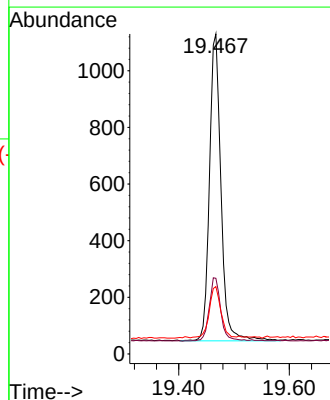
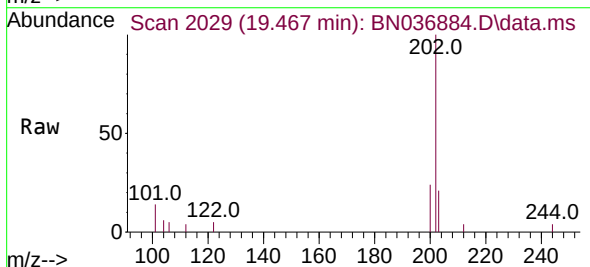
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

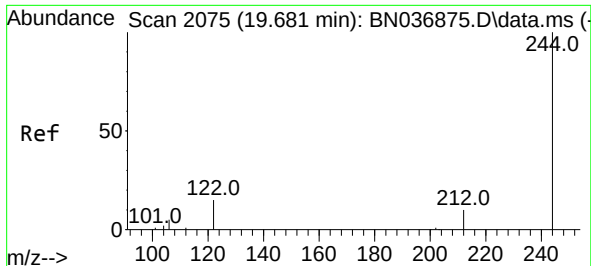
Tgt Ion:	240	Resp:	1015
Ion Ratio	Lower	Upper	
240	100		
120	22.4	15.8	23.6
236	33.4	25.8	38.8



#30
Pyrene
Concen: 0.410 ng
RT: 19.467 min Scan# 2029
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:	202	Resp:	1572
Ion Ratio	Lower	Upper	
202	100		
200	20.4	17.1	25.7
203	16.8	14.5	21.7

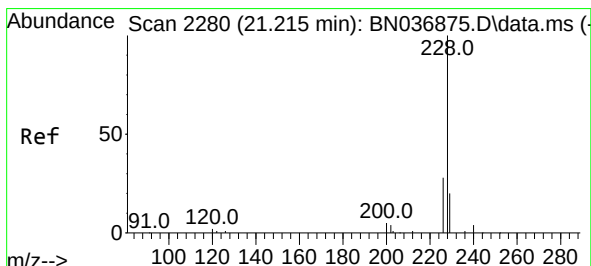
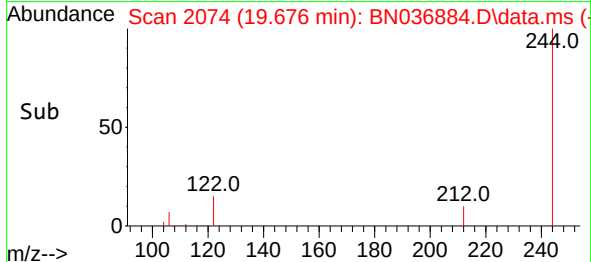
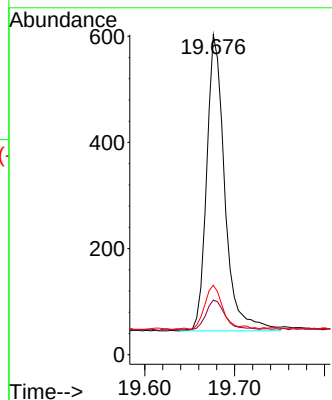
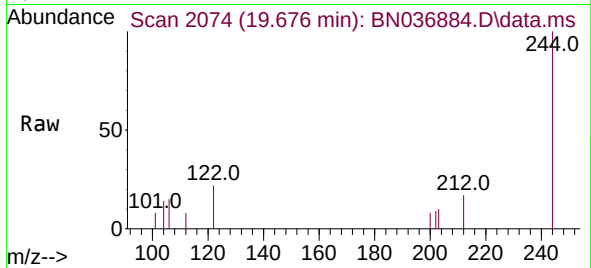




#31
 Terphenyl-d14
 Concen: 0.406 ng
 RT: 19.676 min Scan# 2075
 Delta R.T. -0.005 min
 Lab File: BN036884.D
 Acq: 11 Apr 2025 18:45

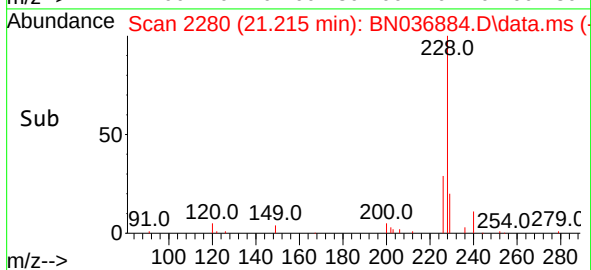
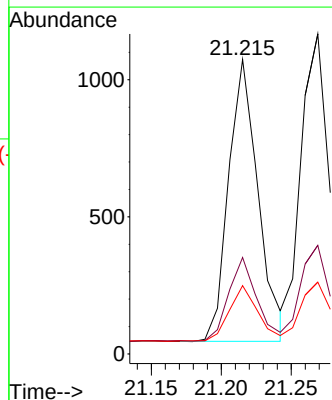
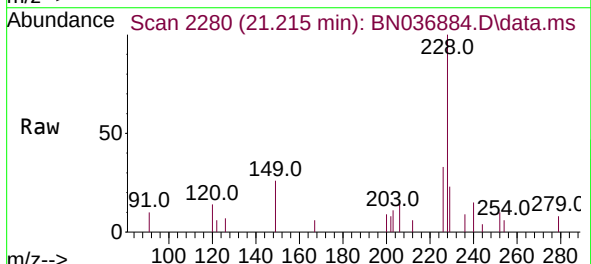
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

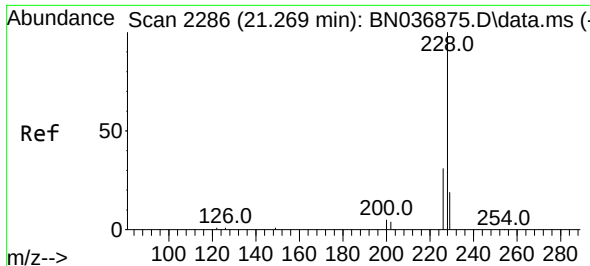
Tgt Ion:244	Resp:	782
Ion Ratio	Lower	Upper
244	100	
212	17.1	11.6 17.4
122	21.7	14.9 22.3



#32
 Benzo(a)anthracene
 Concen: 0.420 ng
 RT: 21.215 min Scan# 2280
 Delta R.T. -0.000 min
 Lab File: BN036884.D
 Acq: 11 Apr 2025 18:45

Tgt Ion:228	Resp:	1507
Ion Ratio	Lower	Upper
228	100	
226	32.8	24.5 36.7
229	23.2	17.7 26.5

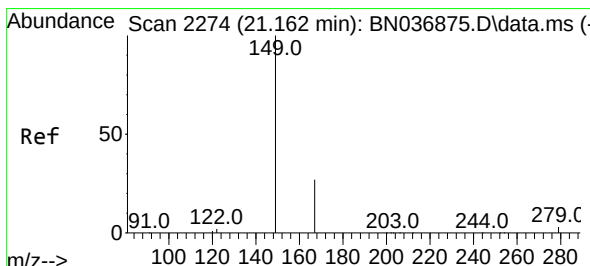
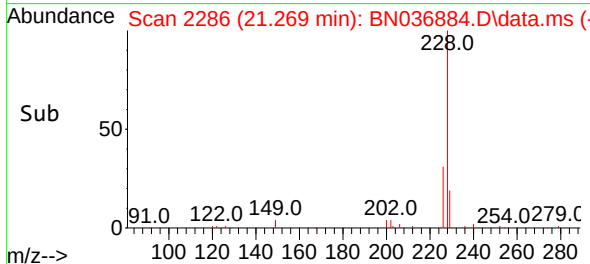
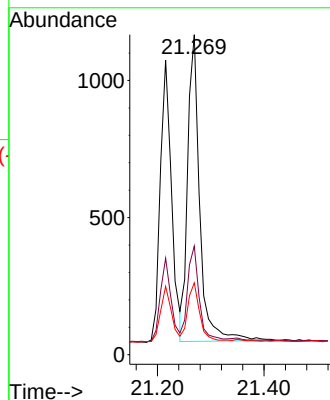
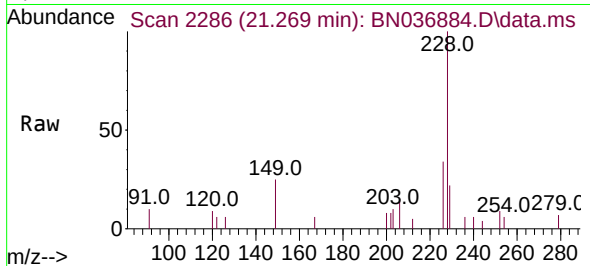




#33
Chrysene
Concen: 0.446 ng
RT: 21.269 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

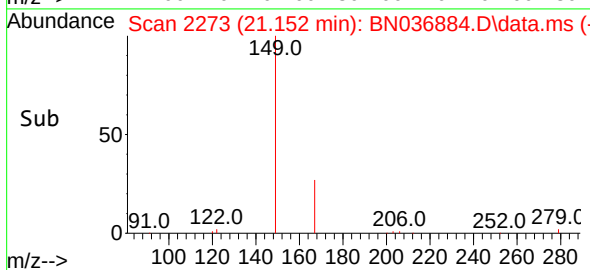
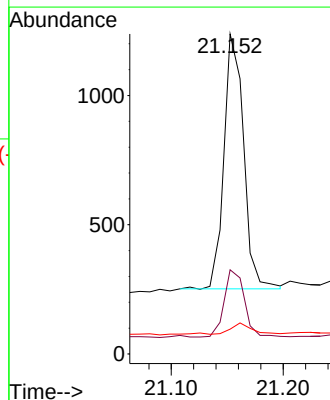
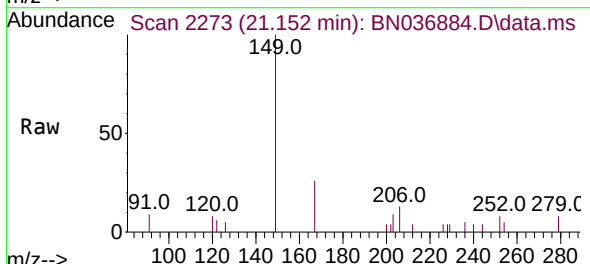
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

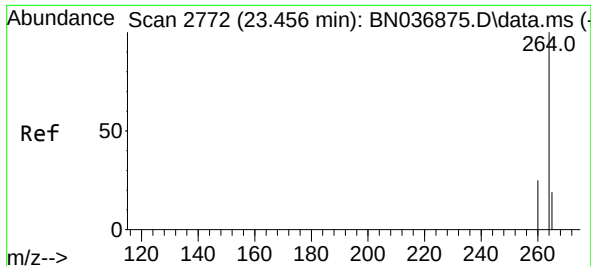
Tgt Ion:228	Resp:	1762
Ion Ratio	Lower	Upper
228	100	
226	33.9	26.1 39.1
229	22.5	17.0 25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.452 ng
RT: 21.152 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:149	Resp:	1203
Ion Ratio	Lower	Upper
149	100	
167	27.0	21.0 31.4
279	4.6	3.6 5.4

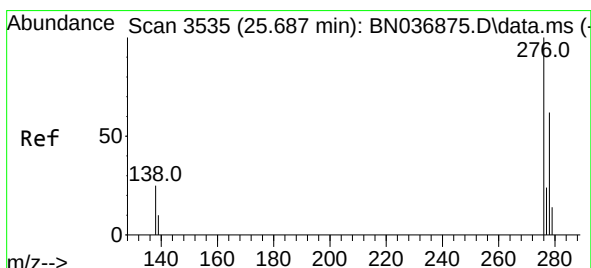
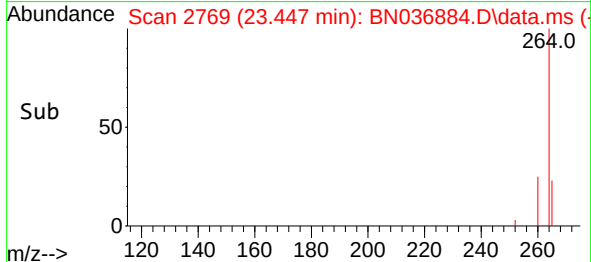
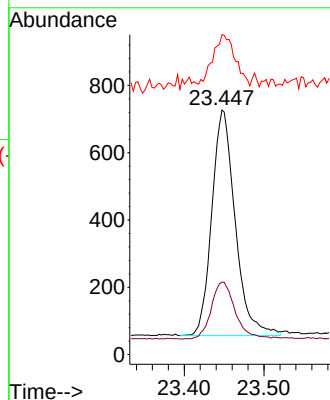
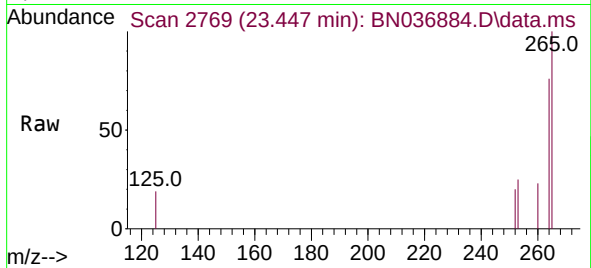




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.447 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

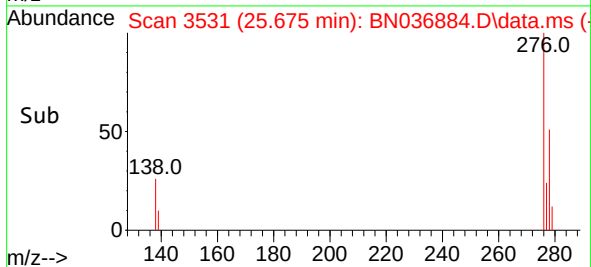
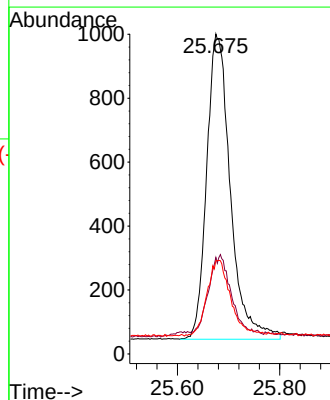
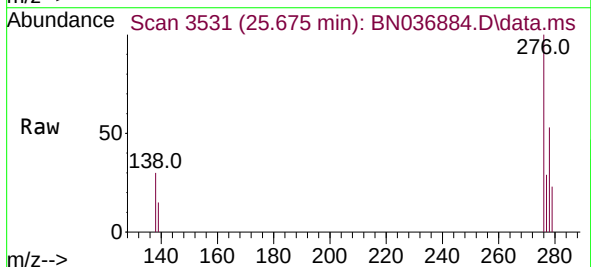
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

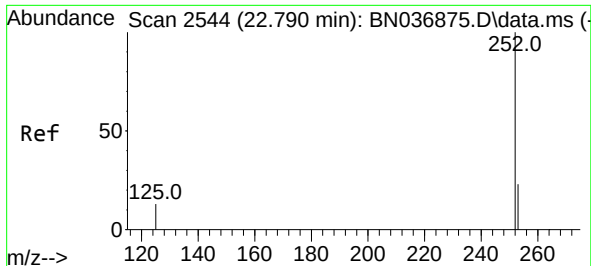
Tgt Ion:264 Resp: 1369
Ion Ratio Lower Upper
264 100
260 29.6 22.9 34.3
265 130.8 88.6 132.8



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.469 ng
RT: 25.675 min Scan# 3531
Delta R.T. -0.012 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Tgt Ion:276 Resp: 3065
Ion Ratio Lower Upper
276 100
138 23.2 21.0 31.6
277 25.1 19.3 28.9

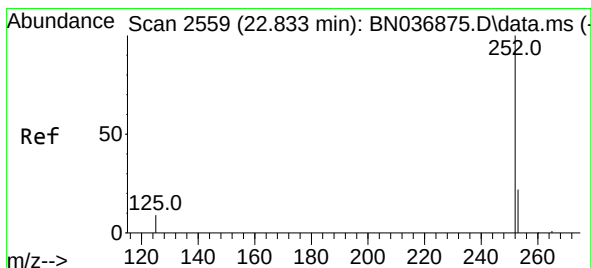
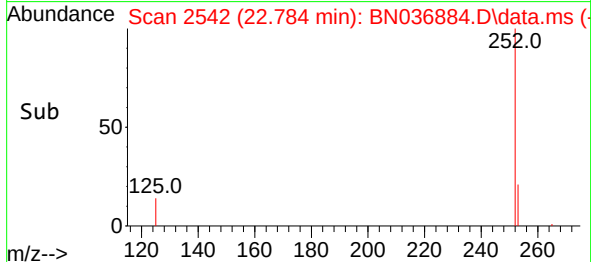
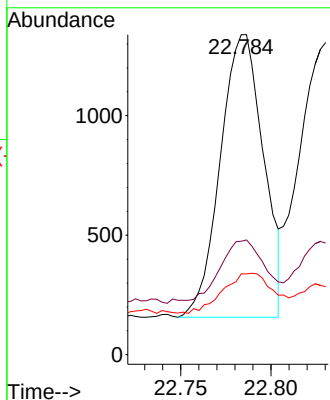
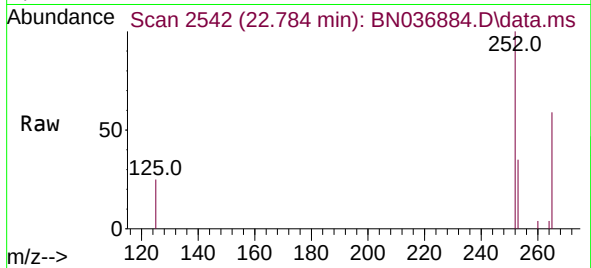




#37
Benzo(b)fluoranthene
Concen: 0.404 ng
RT: 22.784 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

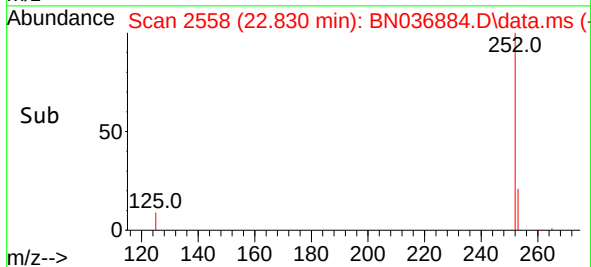
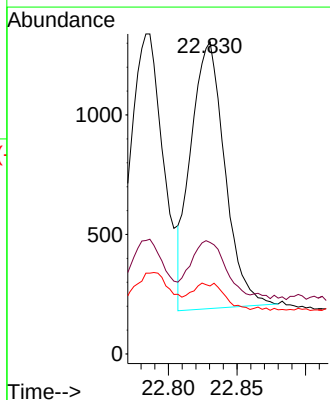
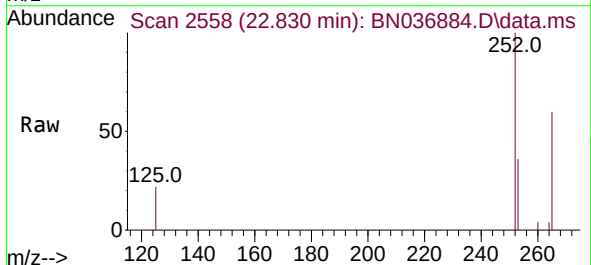
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

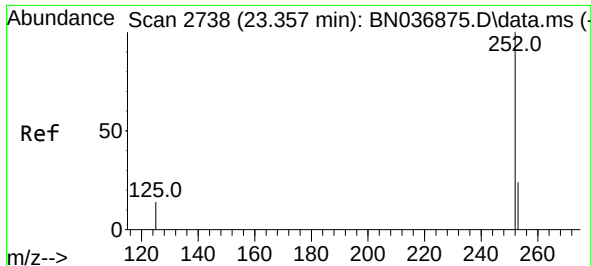
Tgt Ion:252 Resp: 1963
Ion Ratio Lower Upper
252 100
253 35.5 27.0 40.6
125 25.2 17.7 26.5



#38
Benzo(k)fluoranthene
Concen: 0.393 ng
RT: 22.830 min Scan# 2558
Delta R.T. -0.003 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

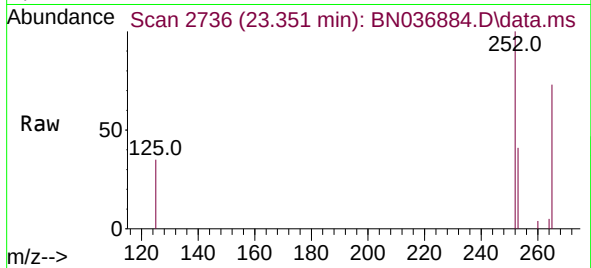
Tgt Ion:252 Resp: 1924
Ion Ratio Lower Upper
252 100
253 35.8 26.7 40.1
125 21.8 16.9 25.3



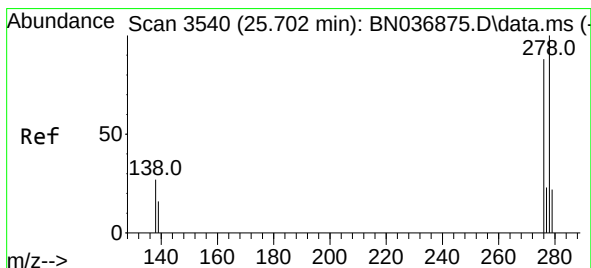
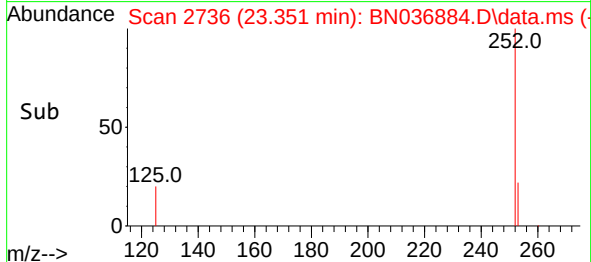
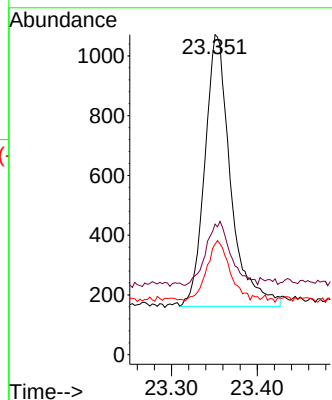


#39
Benzo(a)pyrene
Concen: 0.446 ng
RT: 23.351 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

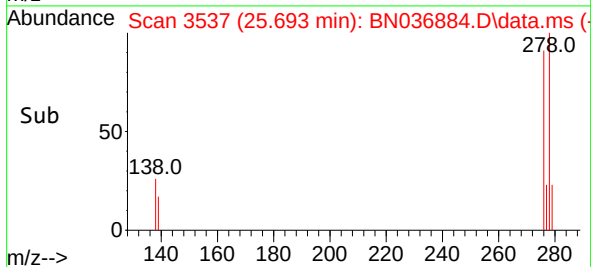
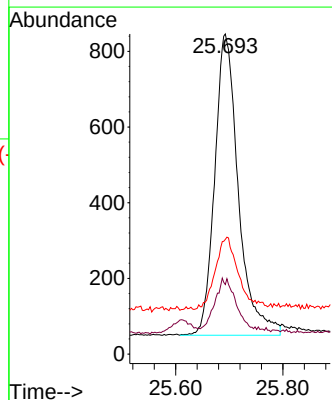
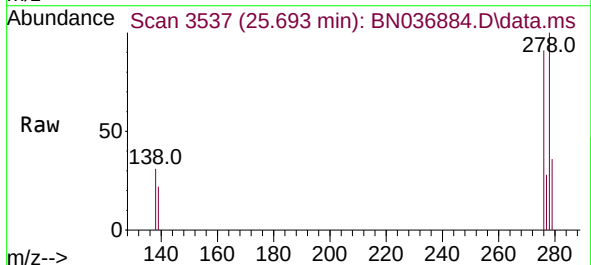


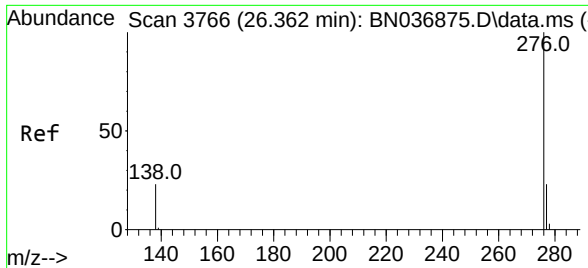
Tgt Ion:252 Resp: 1900
Ion Ratio Lower Upper
252 100
253 40.8 31.5 47.3
125 34.5 22.6 34.0#



#40
Dibenzo(a,h)anthracene
Concen: 0.470 ng
RT: 25.693 min Scan# 3537
Delta R.T. -0.009 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

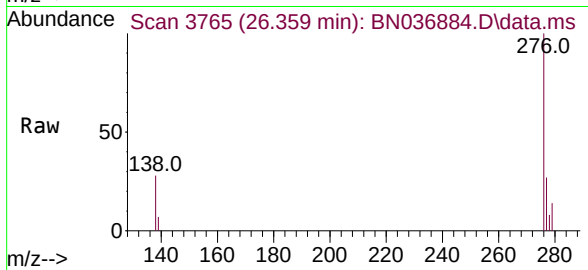
Tgt Ion:278 Resp: 2440
Ion Ratio Lower Upper
278 100
139 21.7 17.6 26.4
279 35.8 26.7 40.1



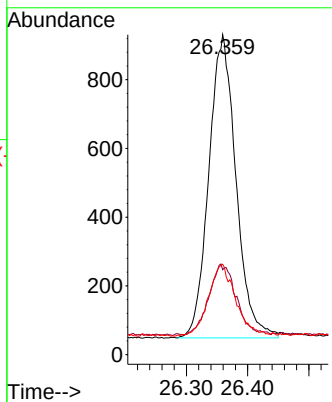
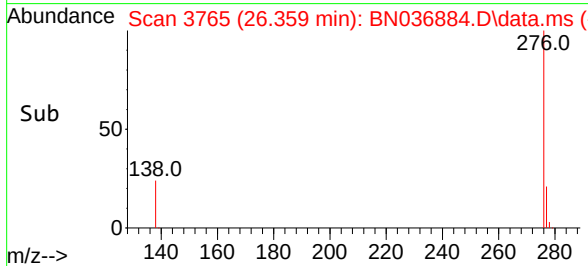


#41
Benzo(g,h,i)perylene
Concen: 0.463 ng
RT: 26.359 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN036884.D
Acq: 11 Apr 2025 18:45

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:	276	Resp:	2713
Ion	Ratio	Lower	Upper
276	100		
277	26.5	21.8	32.8
138	28.2	21.6	32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036891.D
 Acq On : 11 Apr 2025 22:57
 Operator : RC/JU
 Sample : PB167565BS
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167565BS

Quant Time: Apr 12 00:00:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

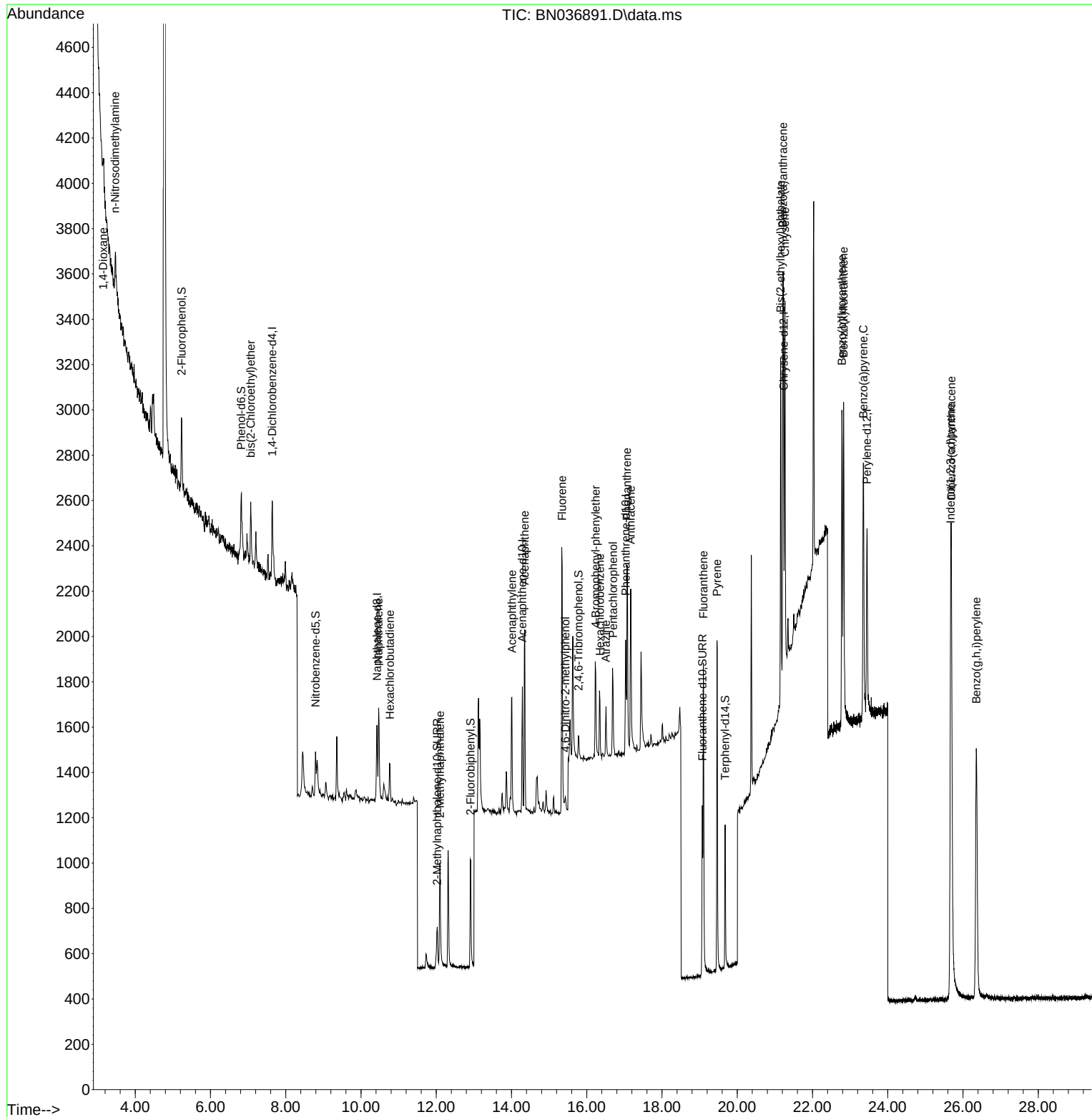
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	208	0.400	ng	# 0.00
7) Naphthalene-d8	10.426	136	496	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	321	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	731	0.400	ng	# 0.00
29) Chrysene-d12	21.233	240	908	0.400	ng	# 0.00
35) Perylene-d12	23.447	264	1138	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	252	0.515	ng	0.00
5) Phenol-d6	6.817	99	296	0.473	ng	0.00
8) Nitrobenzene-d5	8.792	82	211	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	414	0.574	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	71	0.459	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	592	0.384	ng	0.00
27) Fluoranthene-d10	19.073	212	950	0.461	ng	0.00
31) Terphenyl-d14	19.677	244	690	0.400	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	84	0.348	ng	# 3
3) n-Nitrosodimethylamine	3.465	42	215	0.402	ng	# 89
6) bis(2-Chloroethyl)ether	7.069	93	226	0.368	ng	95
9) Naphthalene	10.468	128	637	0.446	ng	# 83
10) Hexachlorobutadiene	10.767	225	158	0.488	ng	# 91
12) 2-Methylnaphthalene	12.097	142	407	0.443	ng	# 91
16) Acenaphthylene	14.010	152	647	0.434	ng	97
17) Acenaphthene	14.352	154	427	0.440	ng	95
18) Fluorene	15.346	166	595	0.444	ng	95
20) 4,6-Dinitro-2-methylph...	15.432	198	74	0.427	ng	# 62
21) 4-Bromophenyl-phenylether	16.239	248	188	0.429	ng	95
22) Hexachlorobenzene	16.351	284	212	0.409	ng	93
23) Atrazine	16.512	200	221	0.516	ng	# 85
24) Pentachlorophenol	16.698	266	226	0.832	ng	# 84
25) Phenanthrene	17.071	178	1018	0.464	ng	97
26) Anthracene	17.170	178	954	0.488	ng	98
28) Fluoranthene	19.100	202	1343	0.487	ng	99
30) Pyrene	19.463	202	1436	0.418	ng	98
32) Benzo(a)anthracene	21.215	228	1428	0.445	ng	98
33) Chrysene	21.269	228	1672	0.473	ng	98
34) Bis(2-ethylhexyl)phtha...	21.153	149	1144	0.481	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.672	276	2802	0.516	ng	99
37) Benzo(b)fluoranthene	22.781	252	1814	0.449	ng	92
38) Benzo(k)fluoranthene	22.825	252	1937	0.476	ng	# 89
39) Benzo(a)pyrene	23.351	252	1752	0.495	ng	95
40) Dibenzo(a,h)anthracene	25.690	278	2199	0.510	ng	95
41) Benzo(g,h,i)perylene	26.354	276	2329	0.478	ng	96

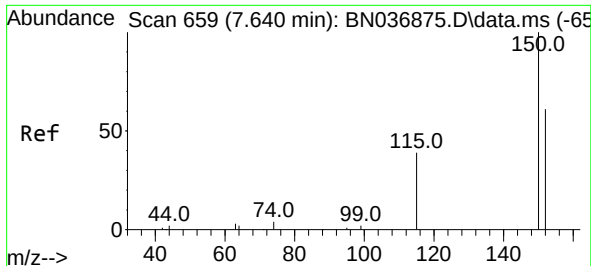
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN036891.D
Acq On : 11 Apr 2025 22:57
Operator : RC/JU
Sample : PB167565BS
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167565BS

Quant Time: Apr 12 00:00:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

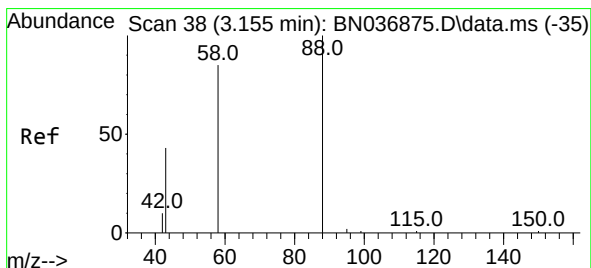
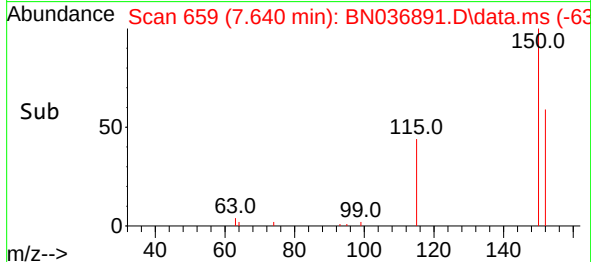
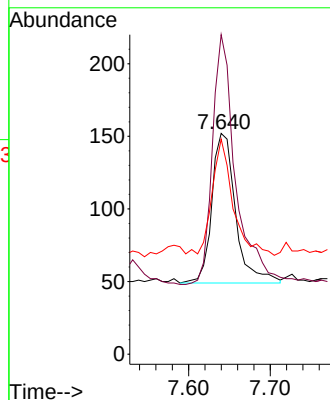
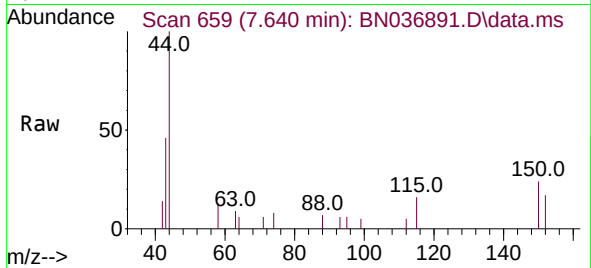




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.640 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

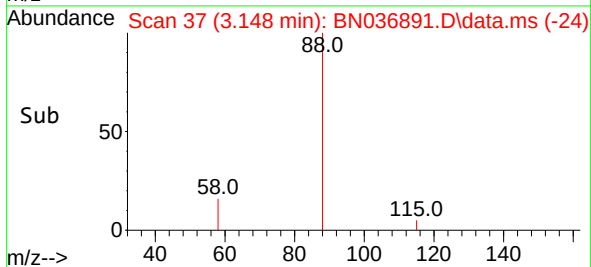
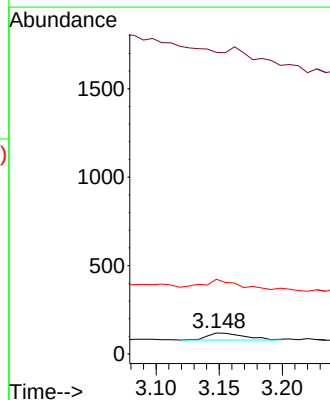
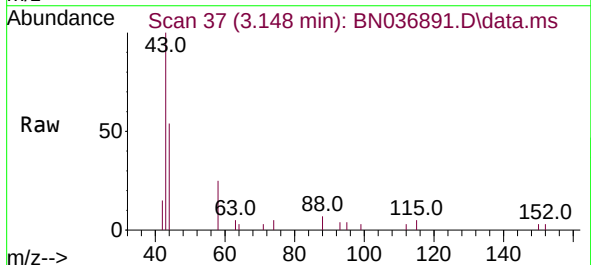
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BS

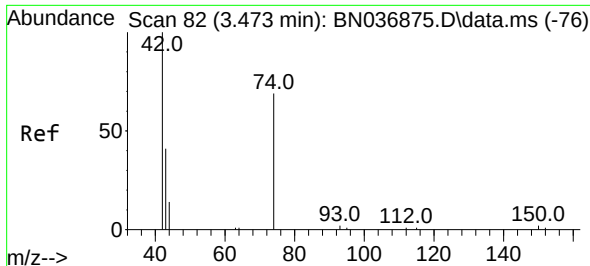
Tgt Ion:152 Resp: 208
 Ion Ratio Lower Upper
 152 100
 150 144.7 123.0 184.6
 115 97.4 60.1 90.1#



#2
 1,4-Dioxane
 Concen: 0.348 ng
 RT: 3.148 min Scan# 37
 Delta R.T. -0.007 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

Tgt Ion: 88 Resp: 84
 Ion Ratio Lower Upper
 88 100
 43 0.0 39.2 58.8#
 58 178.6 63.5 95.3#

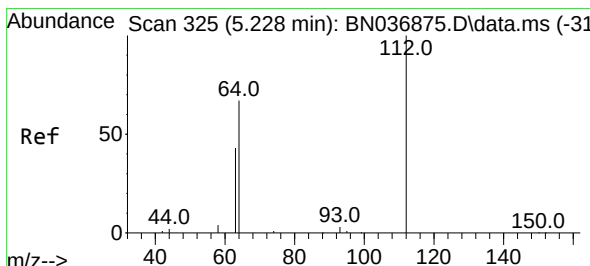
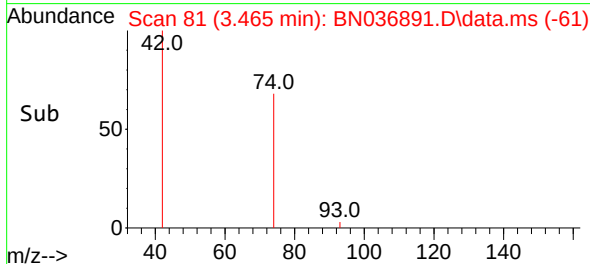
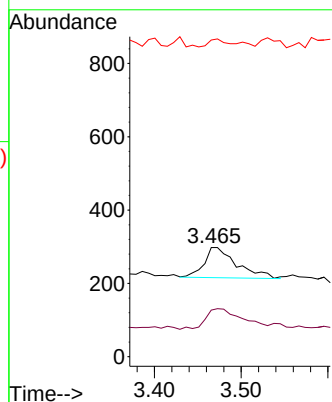
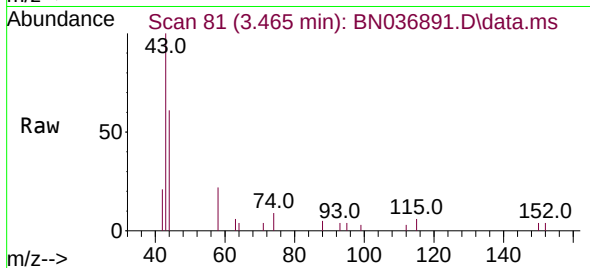




#3
 n-Nitrosodimethylamine
 Concen: 0.402 ng
 RT: 3.465 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

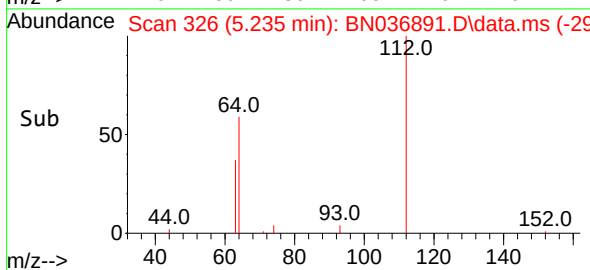
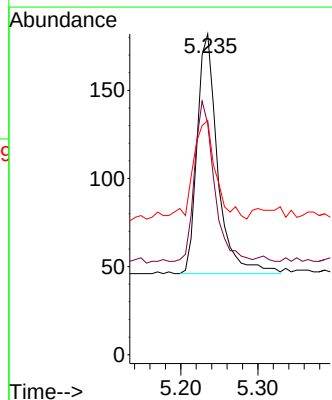
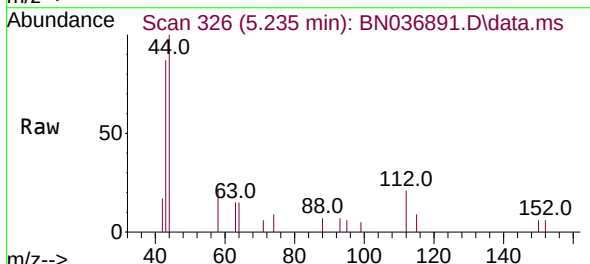
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BS

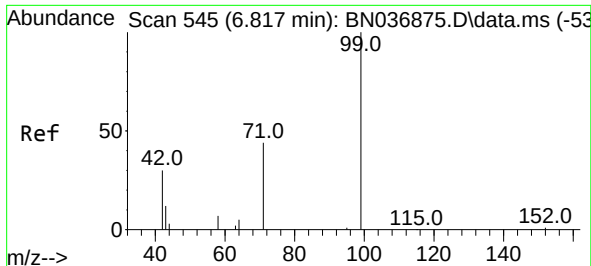
Tgt Ion: 42 Resp: 215
 Ion Ratio Lower Upper
 42 100
 74 76.7 54.6 81.8
 44 13.0 0.0 0.0#



#4
 2-Fluorophenol
 Concen: 0.515 ng
 RT: 5.235 min Scan# 326
 Delta R.T. 0.007 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

Tgt Ion: 112 Resp: 252
 Ion Ratio Lower Upper
 112 100
 64 63.5 54.0 81.0
 63 44.8 35.1 52.7





#5

Phenol-d6

Concen: 0.473 ng

RT: 6.817 min Scan# 54

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

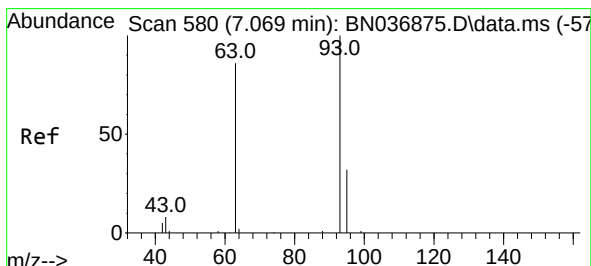
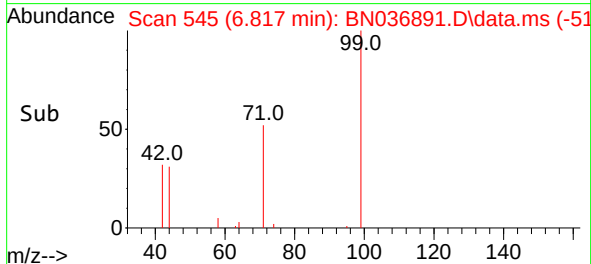
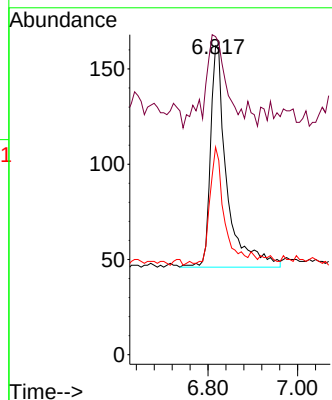
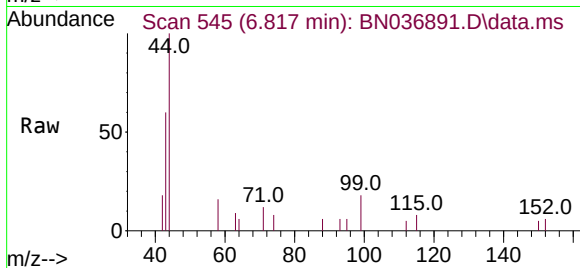
Tgt Ion: 99 Resp: 296

Ion Ratio Lower Upper

99 100

42 53.4 30.9 46.3#

71 43.9 38.6 58.0



#6

bis(2-Chloroethyl)ether

Concen: 0.368 ng

RT: 7.069 min Scan# 580

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

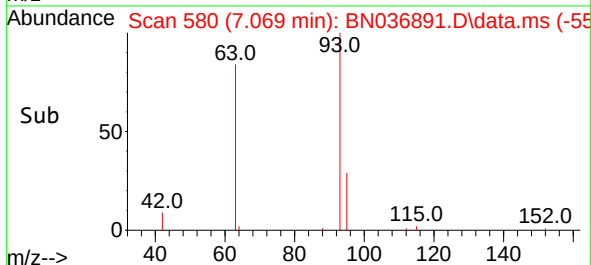
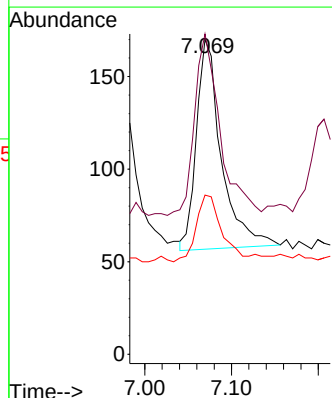
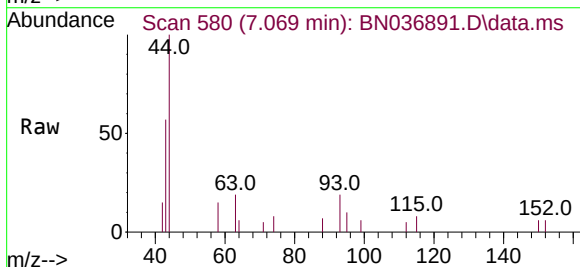
Tgt Ion: 93 Resp: 226

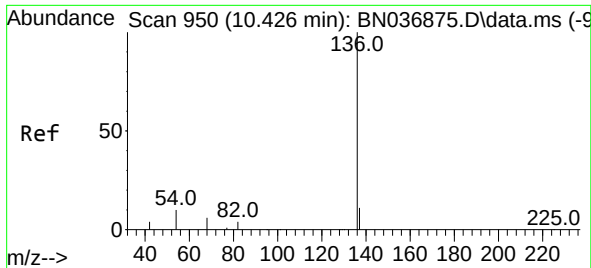
Ion Ratio Lower Upper

93 100

63 88.9 76.4 114.6

95 32.7 26.1 39.1

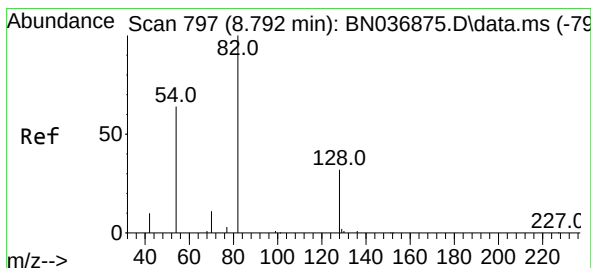
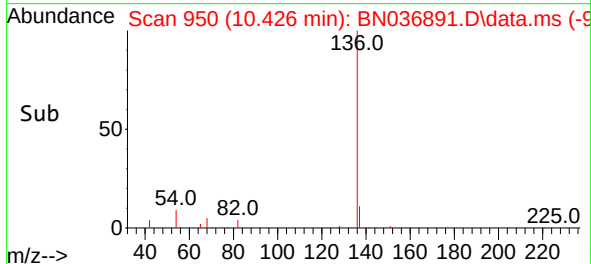
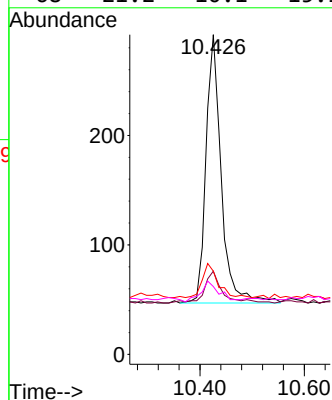
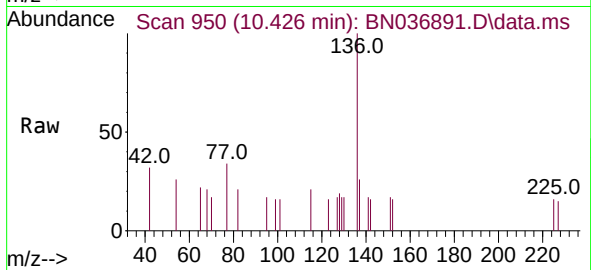




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

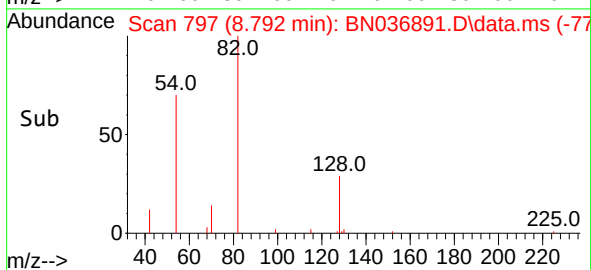
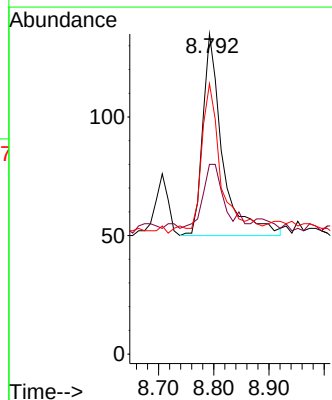
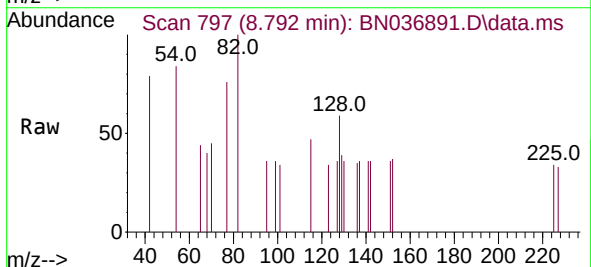
Instrument :
BNA_N
ClientSampleId :
PB167565BS

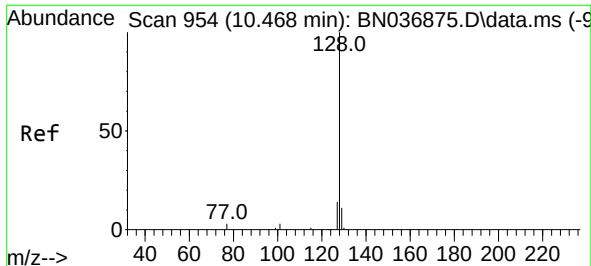
Tgt Ion:	136	Resp:	496
Ion	Ratio	Lower	Upper
136	100		
137	26.0	13.5	20.3#
54	26.0	12.8	19.2#
68	21.2	10.1	15.1#



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:	82	Resp:	211
Ion	Ratio	Lower	Upper
82	100		
128	59.3	35.5	53.3#
54	84.4	56.2	84.4#

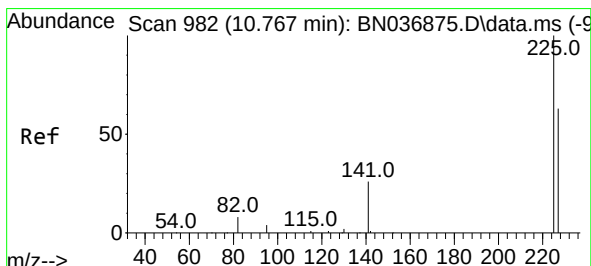
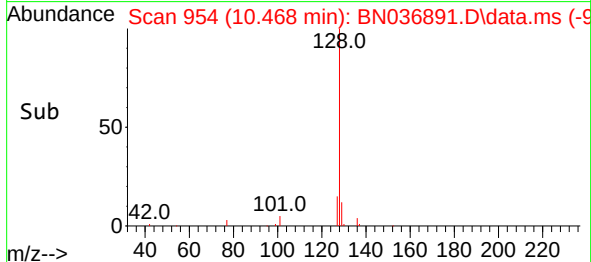
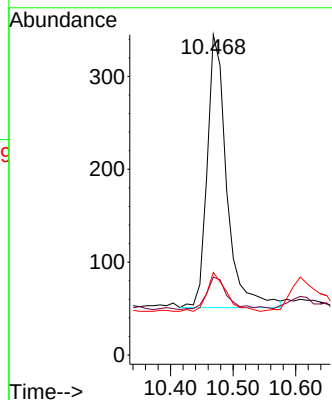
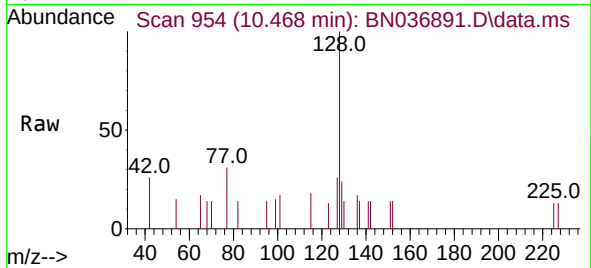




#9
Naphthalene
Concen: 0.446 ng
RT: 10.468 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

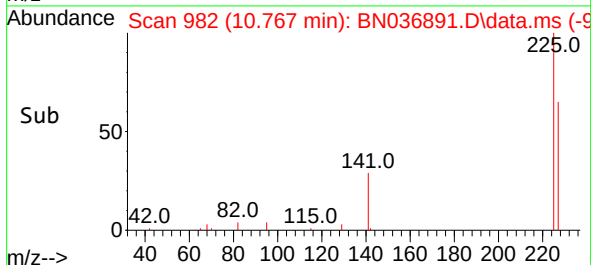
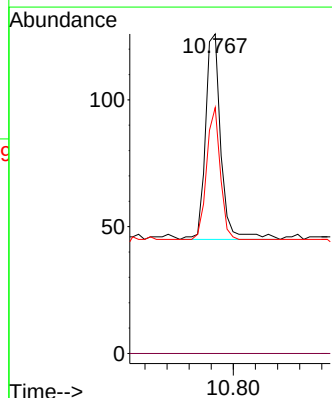
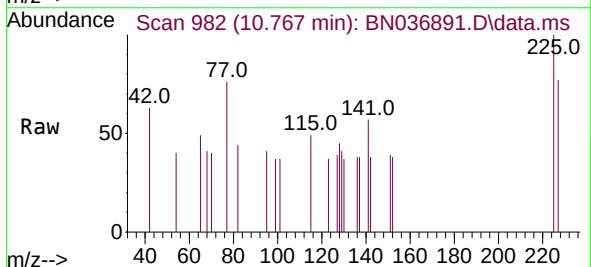
Instrument :
BNA_N
ClientSampleId :
PB167565BS

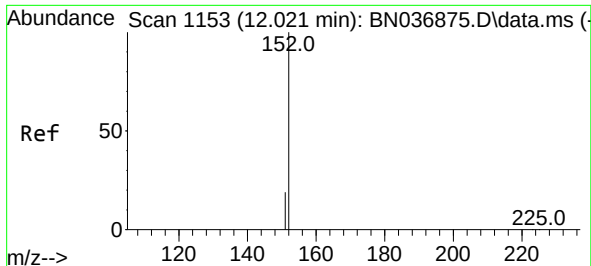
Tgt Ion:128 Resp: 637
Ion Ratio Lower Upper
128 100
129 24.3 12.9 19.3#
127 25.8 15.0 22.6#



#10
Hexachlorobutadiene
Concen: 0.488 ng
RT: 10.767 min Scan# 982
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:225 Resp: 158
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 56.3 50.5 75.7

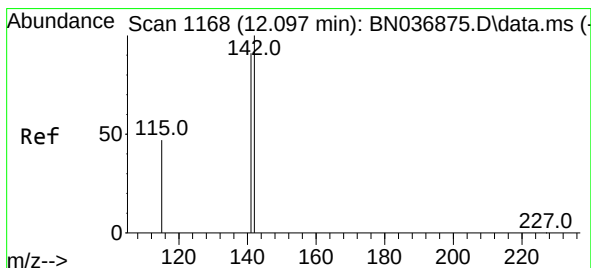
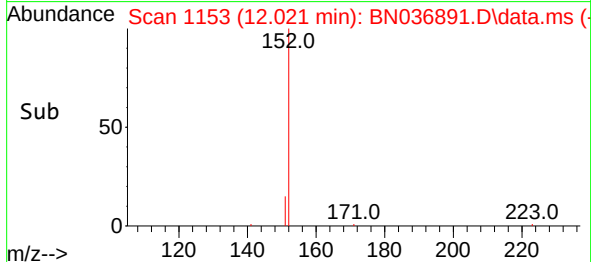
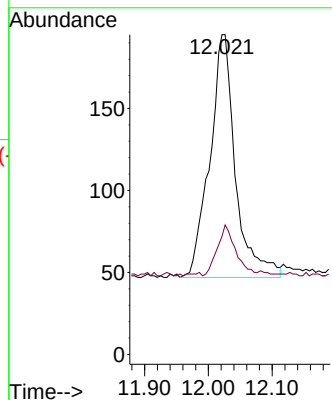
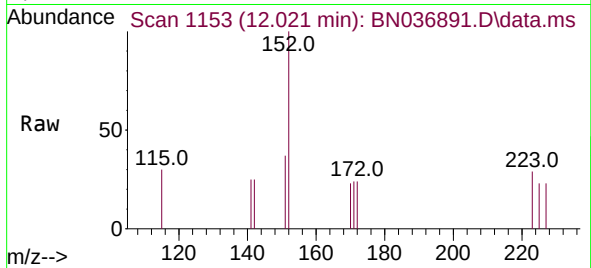




#11
2-Methylnaphthalene-d10
Concen: 0.574 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

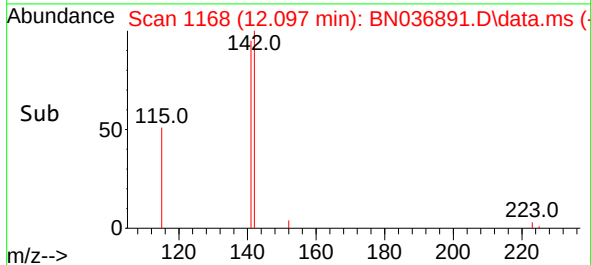
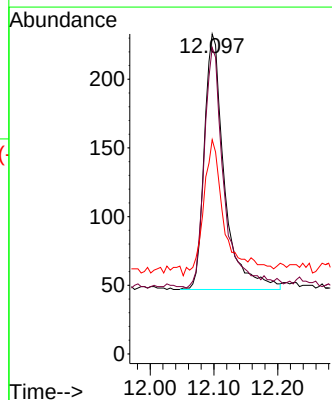
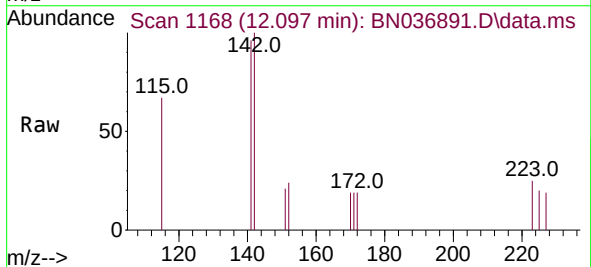
Instrument :
BNA_N
ClientSampleId :
PB167565BS

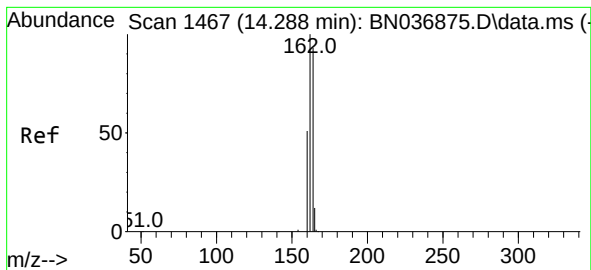
Tgt Ion:152 Resp: 414
Ion Ratio Lower Upper
152 100
151 15.0 17.8 26.8#



#12
2-Methylnaphthalene
Concen: 0.443 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:142 Resp: 407
Ion Ratio Lower Upper
142 100
141 95.7 73.8 110.8
115 67.0 43.3 64.9#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.288 min Scan# 1467

Delta R.T. -0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

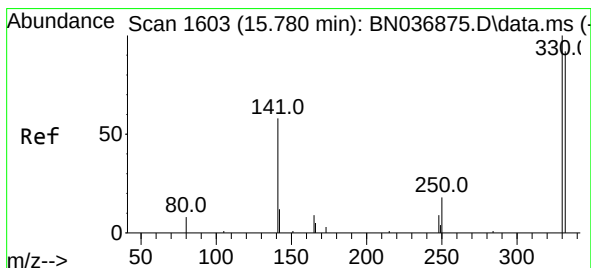
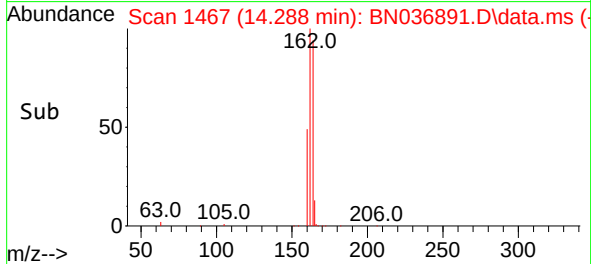
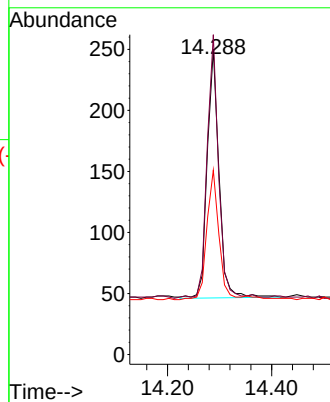
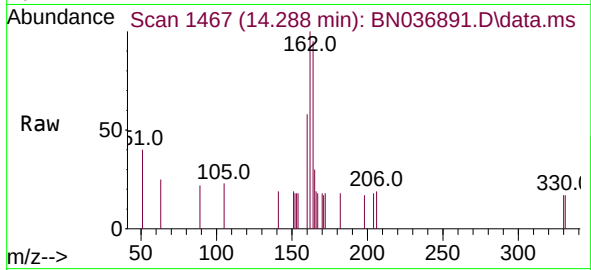
Tgt Ion:164 Resp: 321

Ion Ratio Lower Upper

164 100

162 104.8 85.7 128.5

160 60.4 46.9 70.3



#14

2,4,6-Tribromophenol

Concen: 0.459 ng

RT: 15.780 min Scan# 1603

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

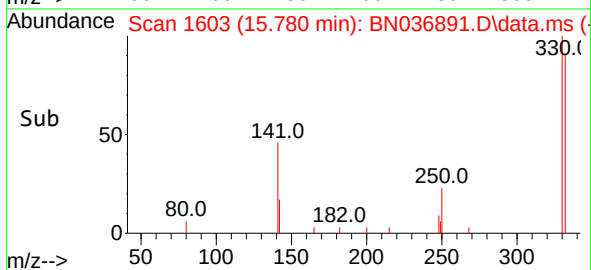
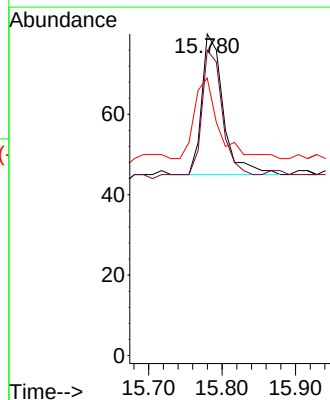
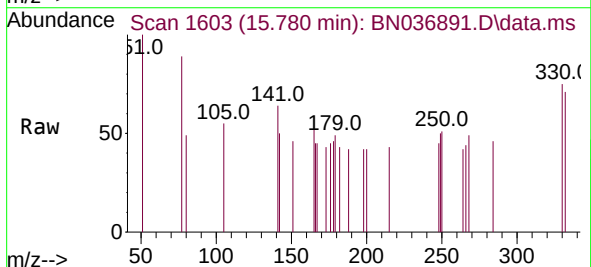
Tgt Ion:330 Resp: 71

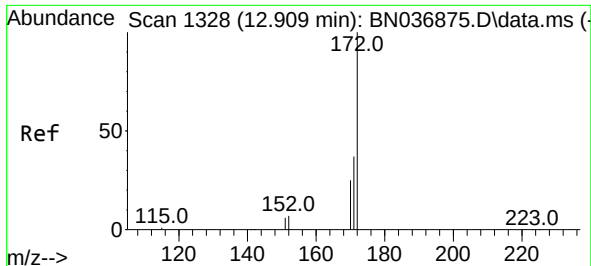
Ion Ratio Lower Upper

330 100

332 93.0 87.0 130.6

141 63.4 45.3 67.9

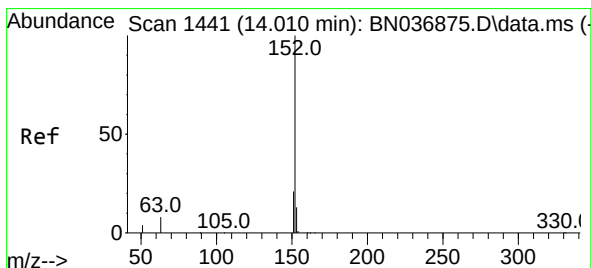
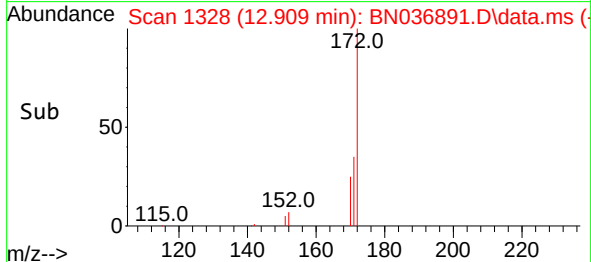
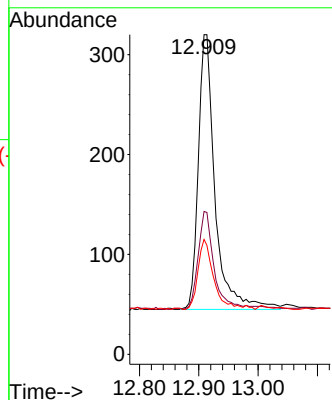
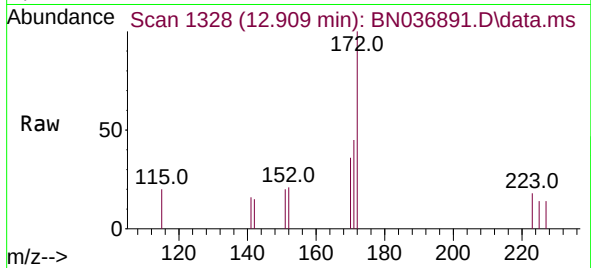




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 12.909 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

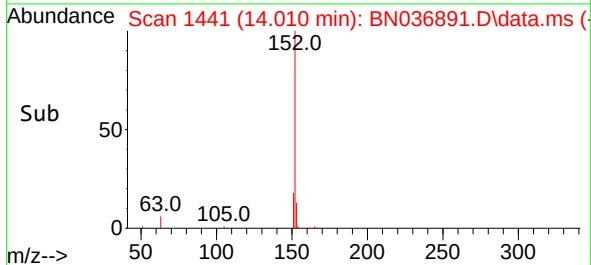
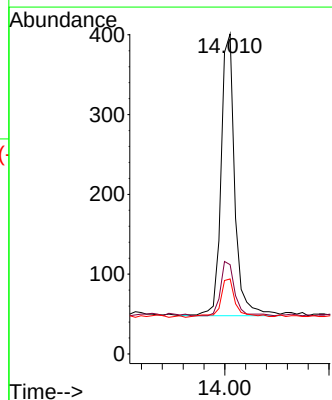
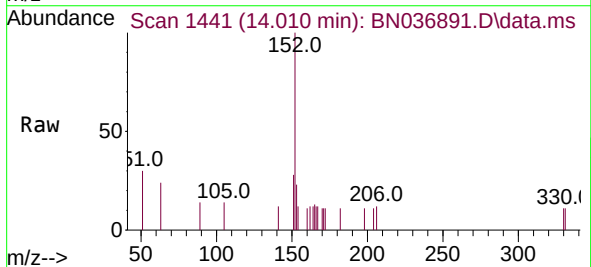
Instrument :
BNA_N
ClientSampleId :
PB167565BS

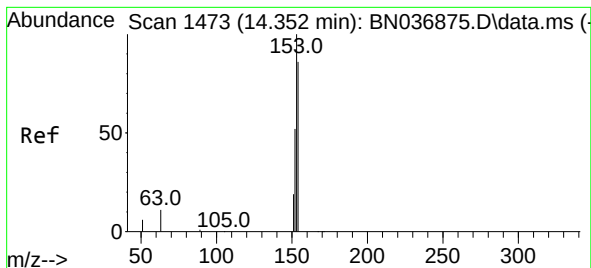
Tgt Ion:172 Resp: 592
Ion Ratio Lower Upper
172 100
171 44.7 32.7 49.1
170 35.9 23.3 34.9#



#16
Acenaphthylene
Concen: 0.434 ng
RT: 14.010 min Scan# 1441
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:152 Resp: 647
Ion Ratio Lower Upper
152 100
151 19.6 16.4 24.6
153 15.3 10.3 15.5





#17

Acenaphthene

Concen: 0.440 ng

RT: 14.352 min Scan# 1473

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

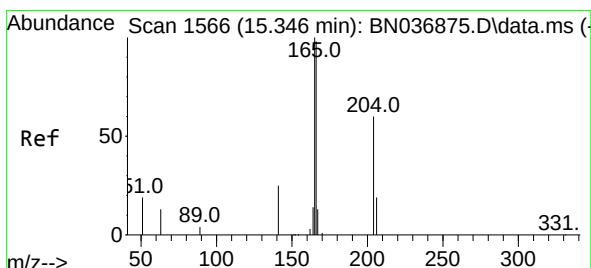
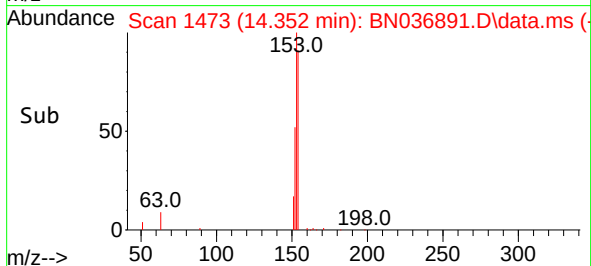
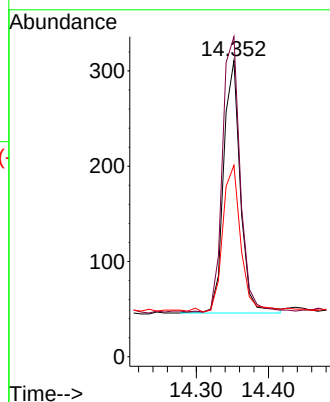
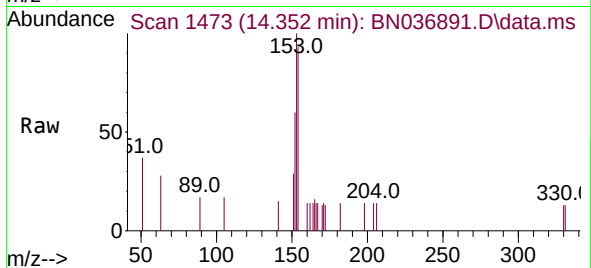
Tgt Ion:154 Resp: 427

Ion Ratio Lower Upper

154 100

153 115.2 97.8 146.6

152 64.6 52.7 79.1



#18

Fluorene

Concen: 0.444 ng

RT: 15.346 min Scan# 1566

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

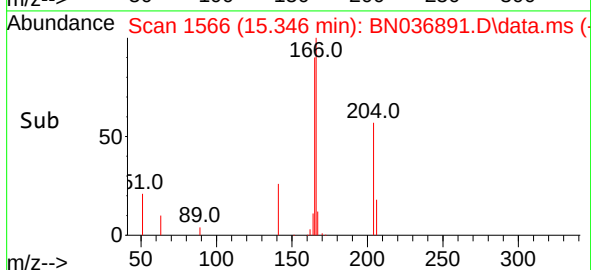
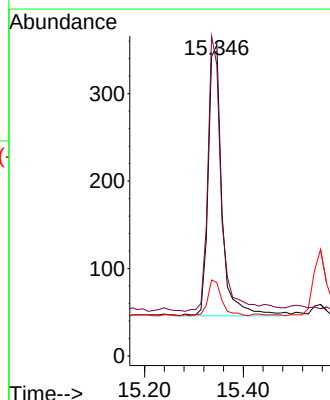
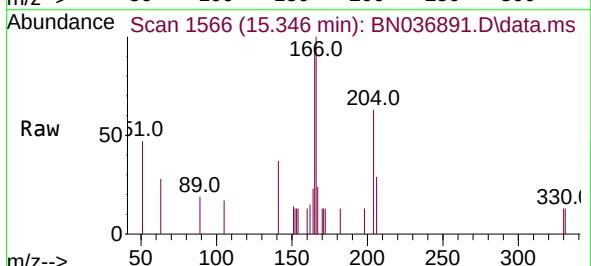
Tgt Ion:166 Resp: 595

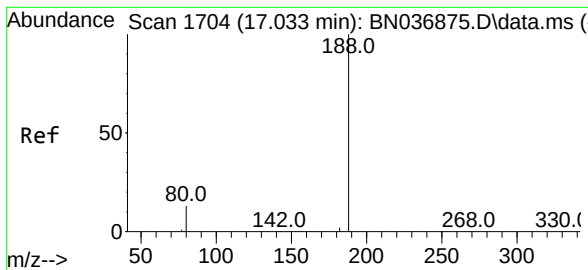
Ion Ratio Lower Upper

166 100

165 98.0 83.2 124.8

167 13.4 11.1 16.7

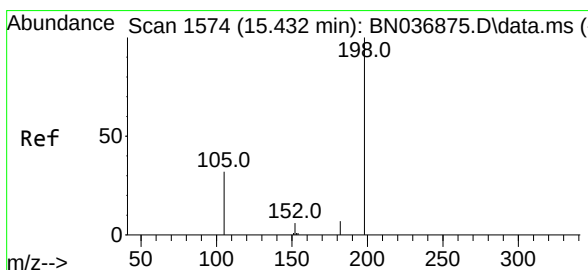
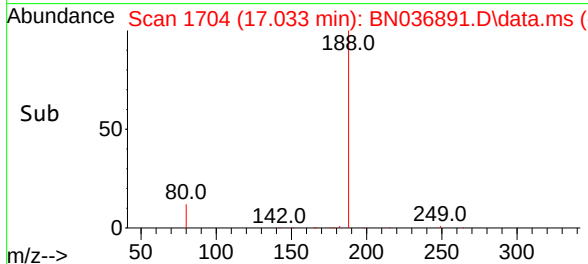
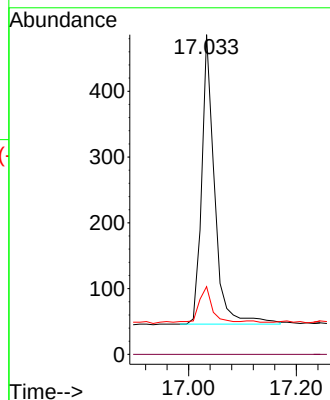
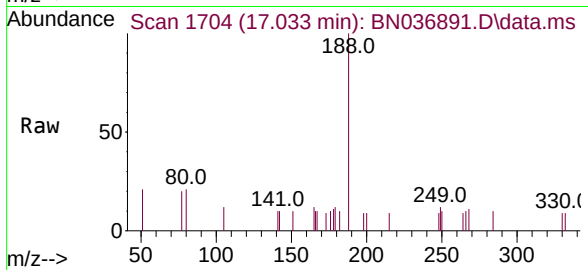




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

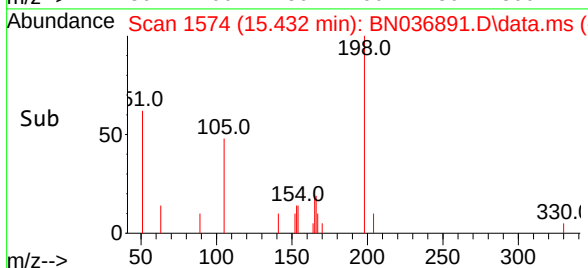
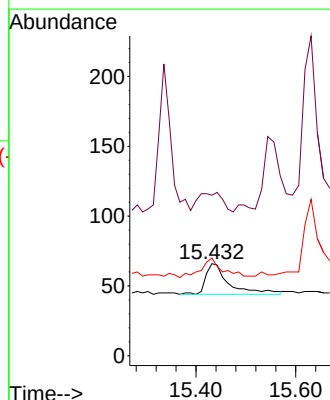
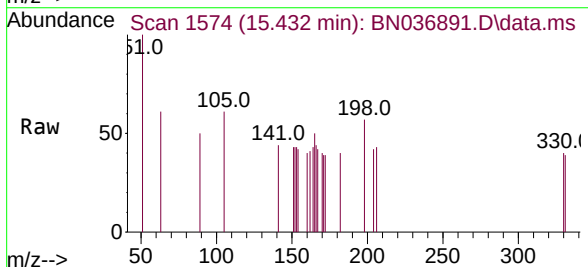
Instrument :
BNA_N
ClientSampleId :
PB167565BS

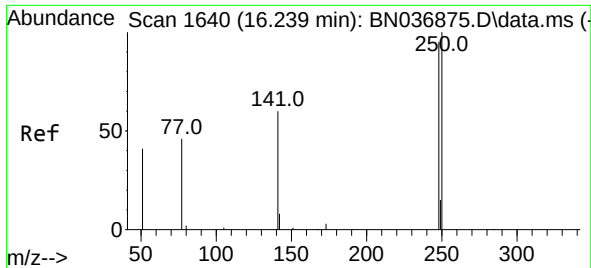
Tgt Ion:188 Resp: 731
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 21.2 13.9 20.9#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.427 ng
RT: 15.432 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:198 Resp: 74
Ion Ratio Lower Upper
198 100
51 174.2 107.6 161.4#
105 106.1 55.2 82.8#

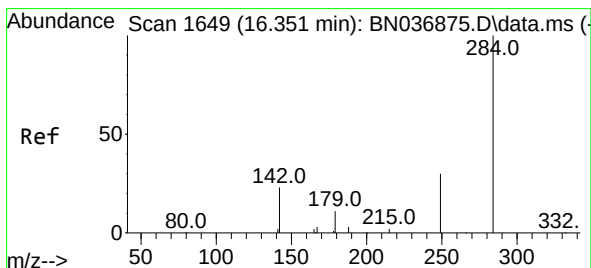
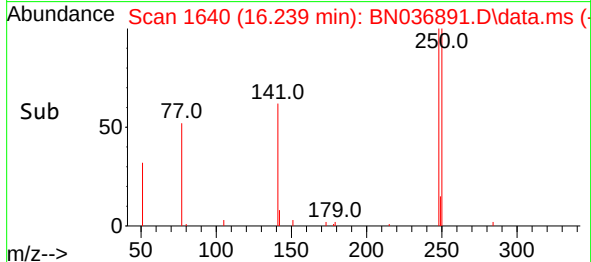
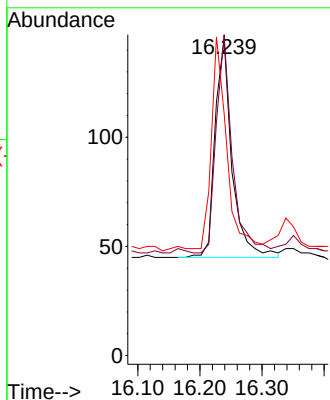
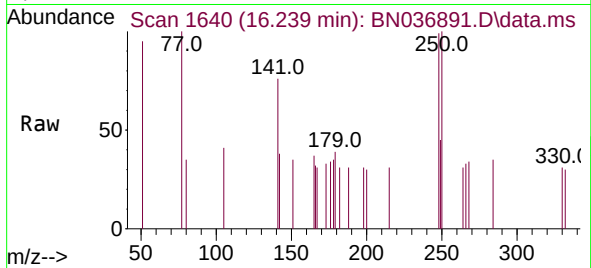




#21
4-Bromophenyl-phenylether
Concen: 0.429 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

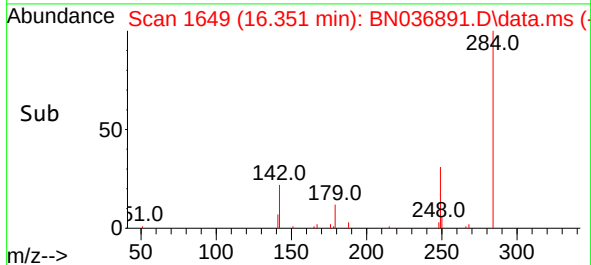
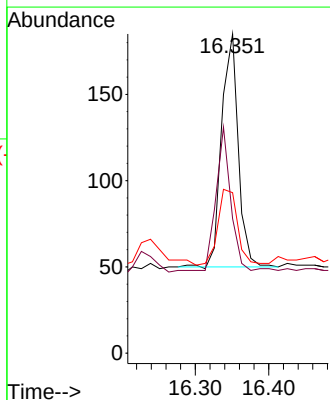
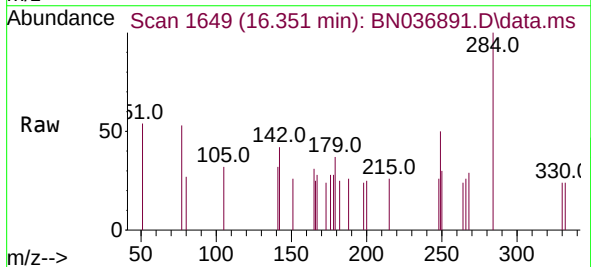
Instrument :
BNA_N
ClientSampleId :
PB167565BS

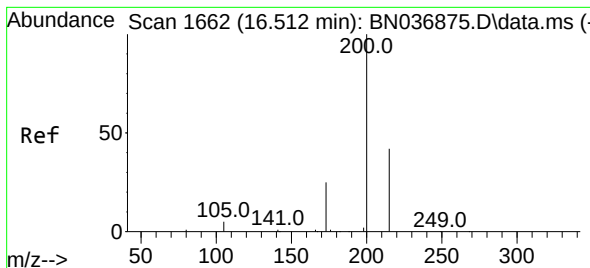
Tgt Ion:	248	Resp:	188
Ion	Ratio	Lower	Upper
248	100		
250	101.4	83.5	125.3
141	76.6	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:	284	Resp:	212
Ion	Ratio	Lower	Upper
284	100		
142	53.8	37.7	56.5
249	38.7	29.0	43.6





#23

Atrazine

Concen: 0.516 ng

RT: 16.512 min Scan# 1662

Delta R.T. -0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

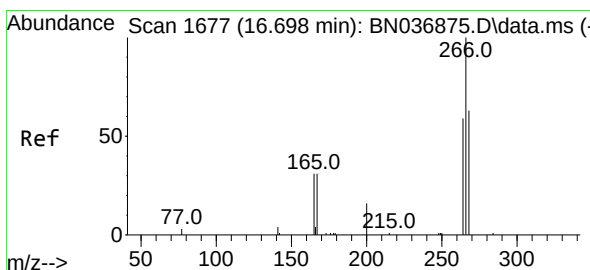
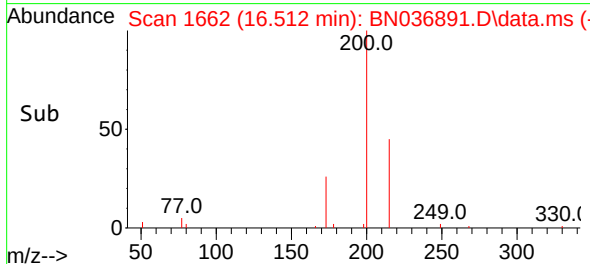
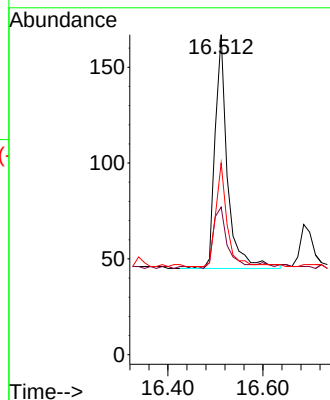
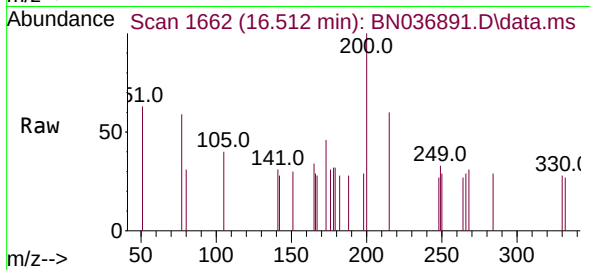
Tgt Ion:200 Resp: 221

Ion Ratio Lower Upper

200 100

173 46.1 28.6 43.0#

215 59.9 40.5 60.7



#24

Pentachlorophenol

Concen: 0.832 ng

RT: 16.698 min Scan# 1677

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

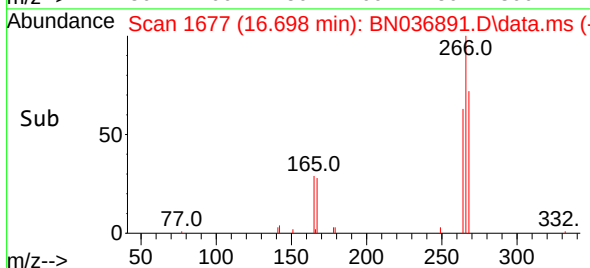
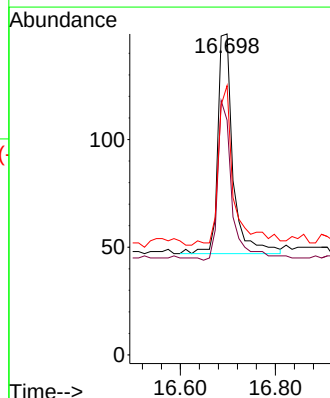
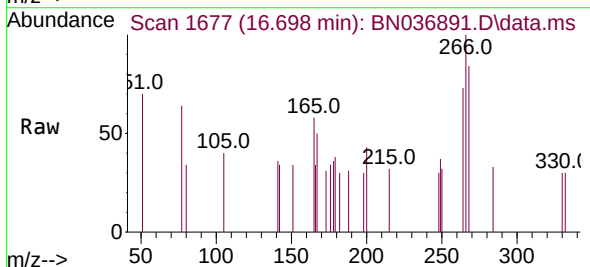
Tgt Ion:266 Resp: 226

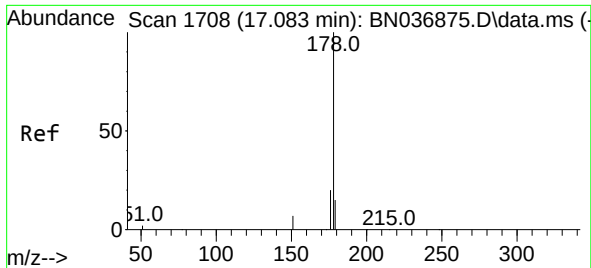
Ion Ratio Lower Upper

266 100

264 69.5 44.6 66.8#

268 74.8 51.8 77.6

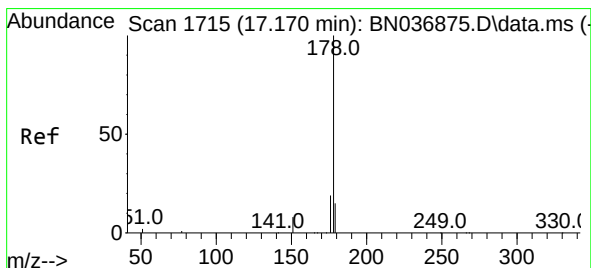
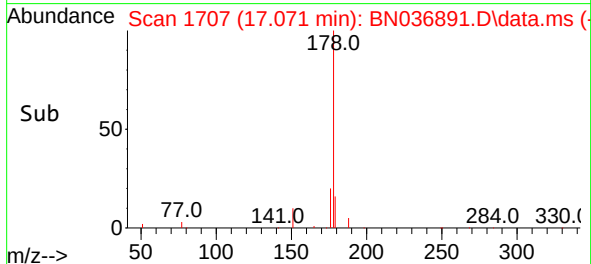
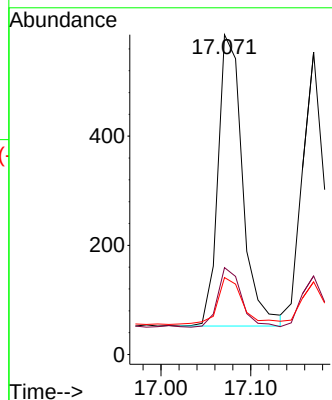
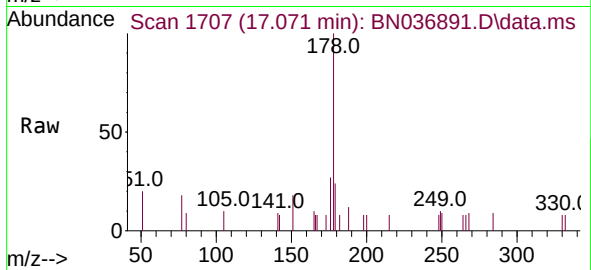




#25
Phenanthrene
Concen: 0.464 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

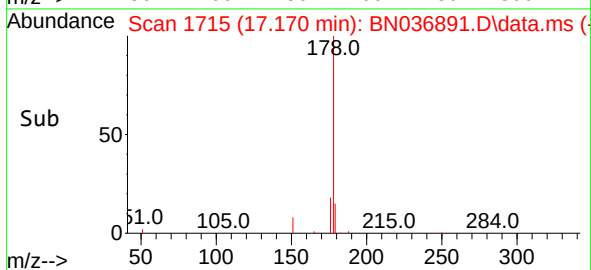
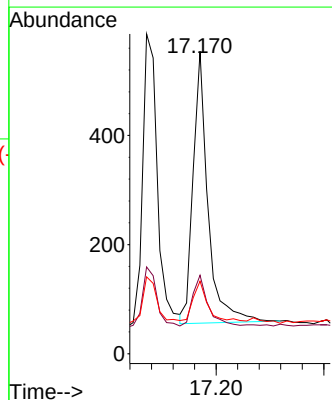
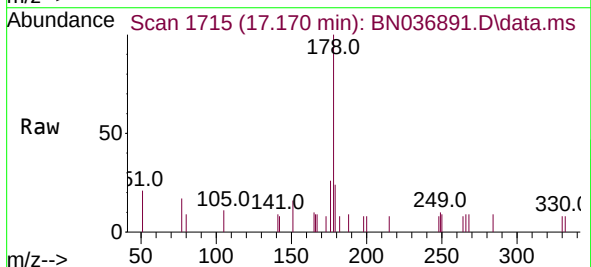
Instrument :
BNA_N
ClientSampleId :
PB167565BS

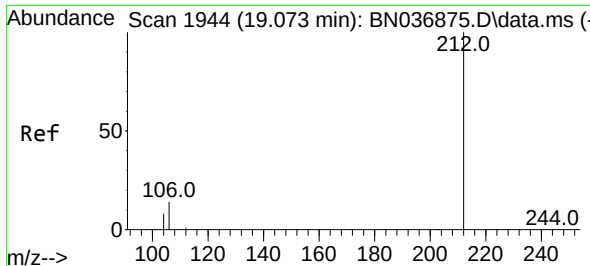
Tgt Ion:178 Resp: 1018
Ion Ratio Lower Upper
178 100
176 19.5 16.6 25.0
179 17.7 12.8 19.2



#26
Anthracene
Concen: 0.488 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:178 Resp: 954
Ion Ratio Lower Upper
178 100
176 19.2 15.8 23.6
179 17.2 12.6 18.8

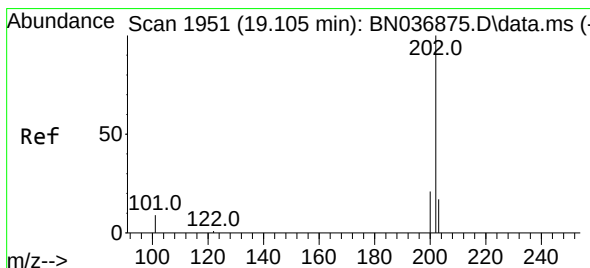
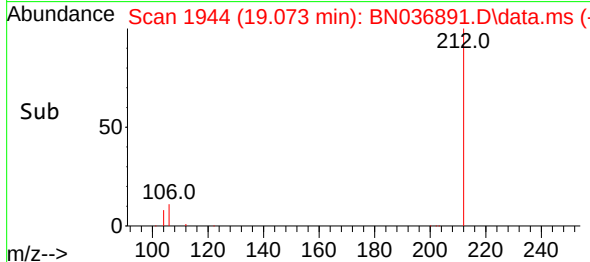
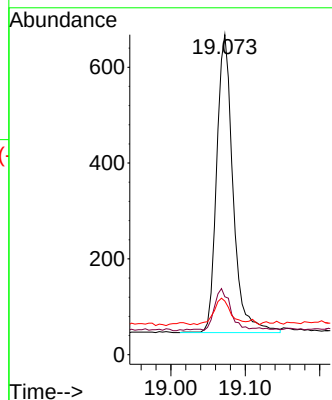
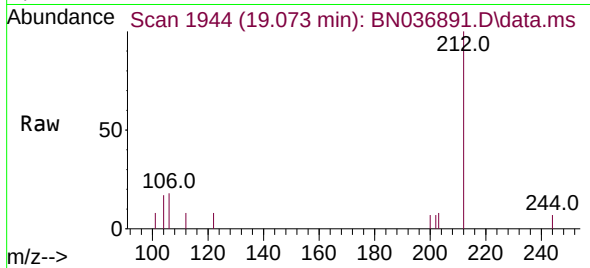




#27
Fluoranthene-d10
Concen: 0.461 ng
RT: 19.073 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

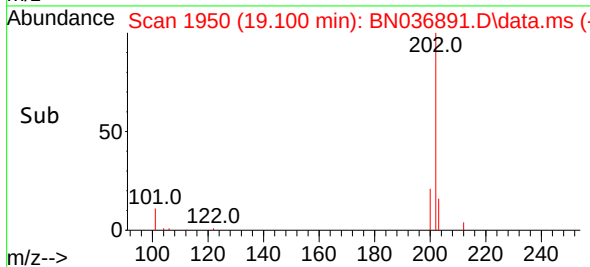
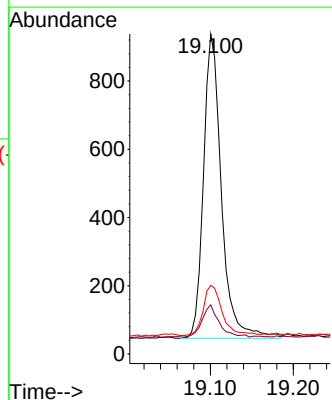
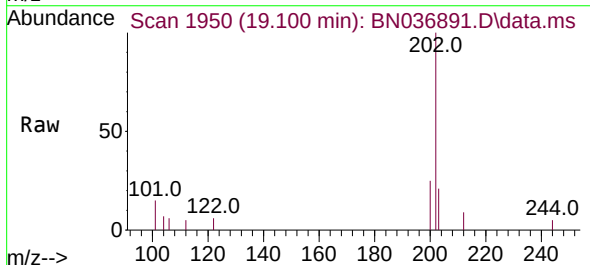
Instrument :
BNA_N
ClientSampleId :
PB167565BS

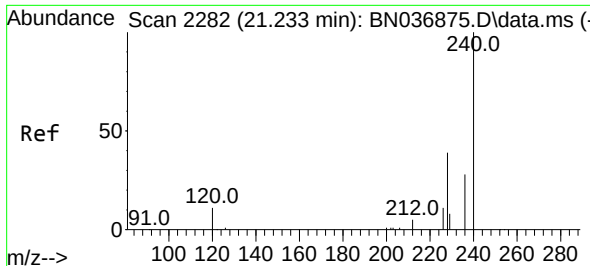
Tgt Ion:212 Resp: 950
Ion Ratio Lower Upper
212 100
106 13.6 11.2 16.8
104 9.1 7.5 11.3



#28
Fluoranthene
Concen: 0.487 ng
RT: 19.100 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Tgt Ion:202 Resp: 1343
Ion Ratio Lower Upper
202 100
101 10.0 8.5 12.7
203 17.5 13.8 20.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.233 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

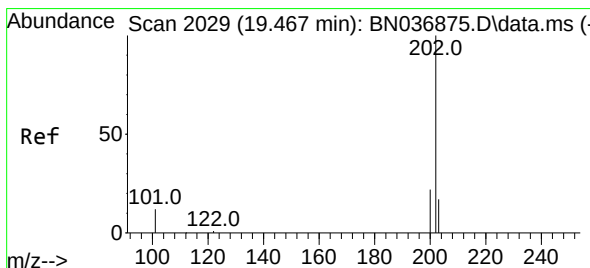
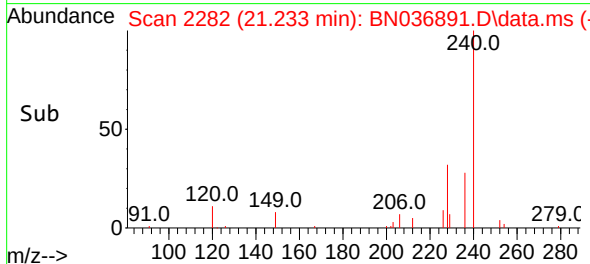
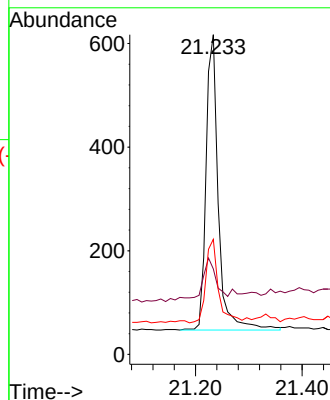
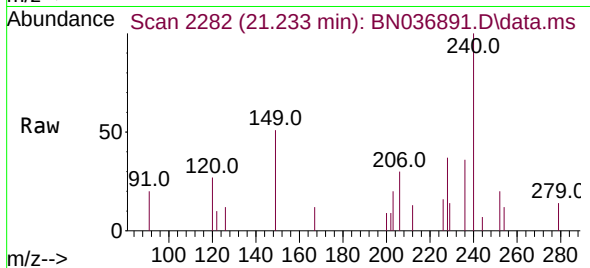
Tgt Ion:240 Resp: 908

Ion Ratio Lower Upper

240 100

120 26.7 15.8 23.6#

236 36.0 25.8 38.8



#30

Pyrene

Concen: 0.418 ng

RT: 19.463 min Scan# 2028

Delta R.T. -0.005 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

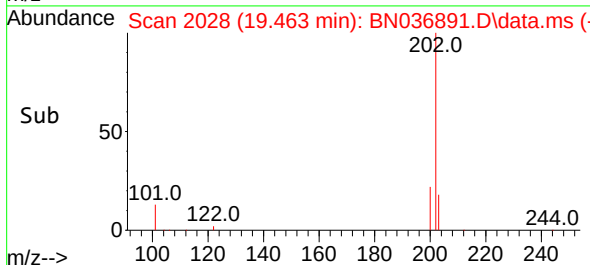
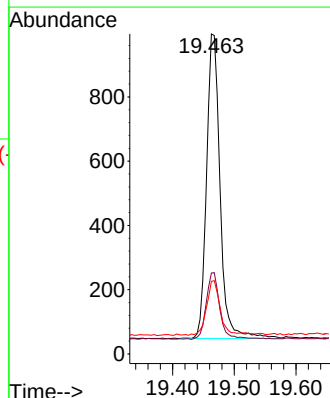
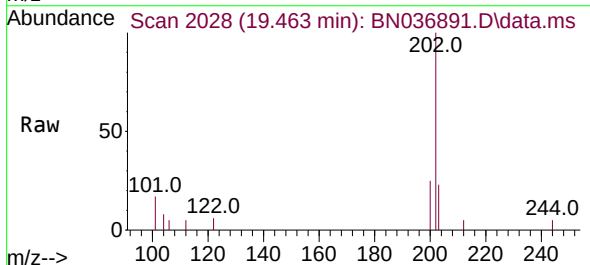
Tgt Ion:202 Resp: 1436

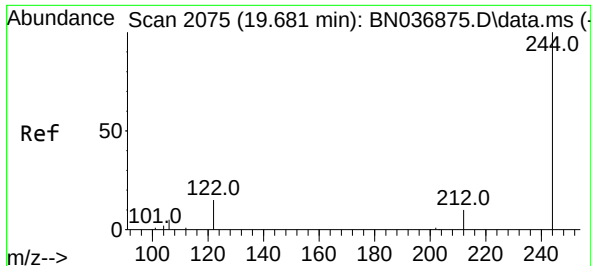
Ion Ratio Lower Upper

202 100

200 22.5 17.1 25.7

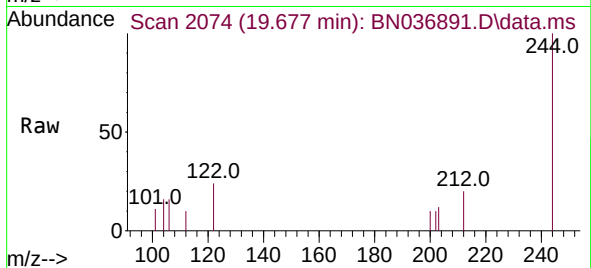
203 17.4 14.5 21.7





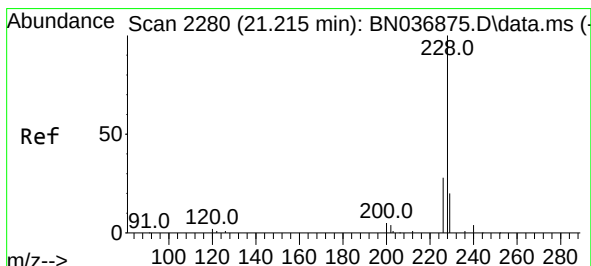
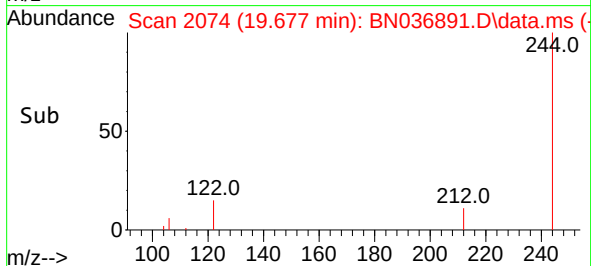
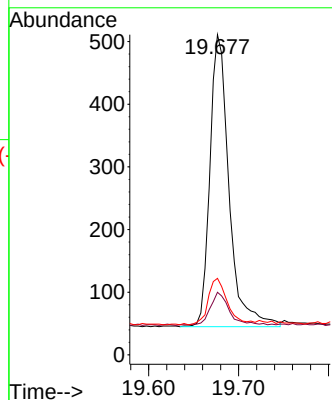
#31
 Terphenyl-d14
 Concen: 0.400 ng
 RT: 19.677 min Scan# 2075
 Delta R.T. -0.005 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

Instrument :
 BNA_N
 ClientSampleId :
 PB167565BS



Tgt Ion:244 Resp: 690

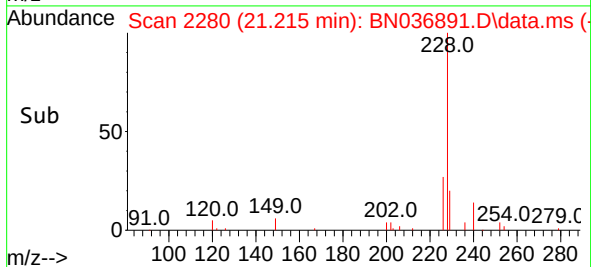
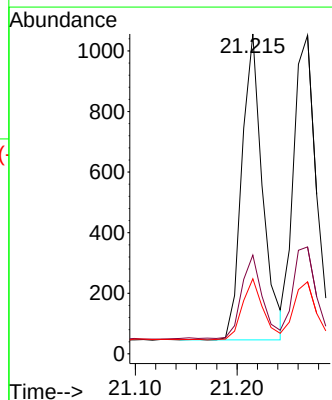
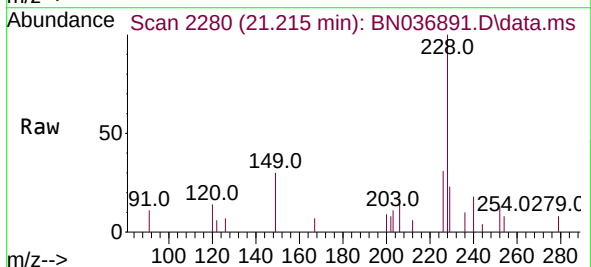
Ion	Ratio	Lower	Upper
244	100		
212	19.6	11.6	17.4#
122	23.9	14.9	22.3#

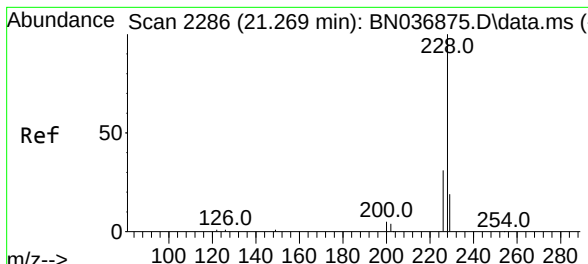


#32
 Benzo(a)anthracene
 Concen: 0.445 ng
 RT: 21.215 min Scan# 2280
 Delta R.T. 0.000 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

Tgt Ion:228 Resp: 1428

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.5	36.7
229	23.5	17.7	26.5

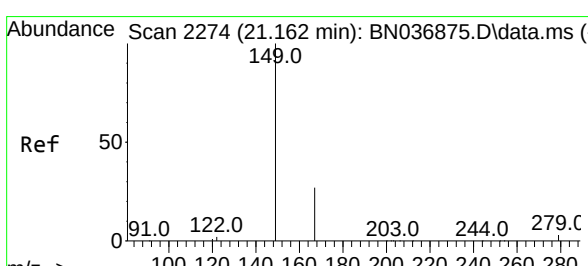
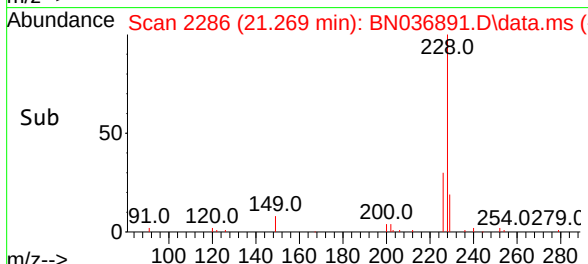
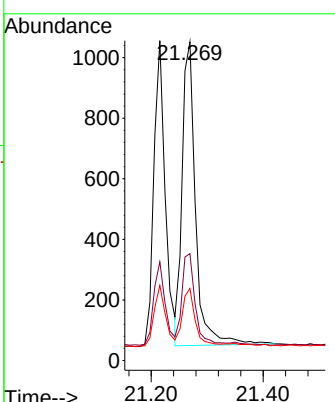
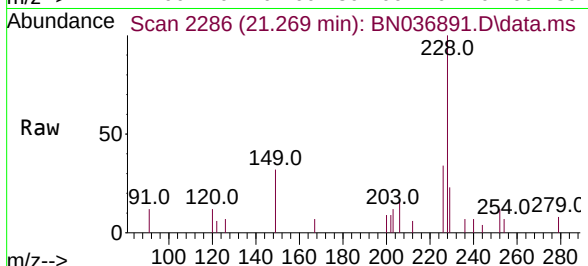




#33
 Chrysene
 Concen: 0.473 ng
 RT: 21.269 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

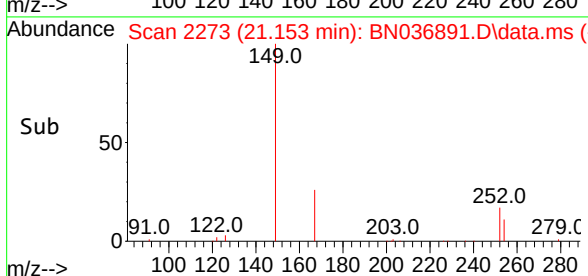
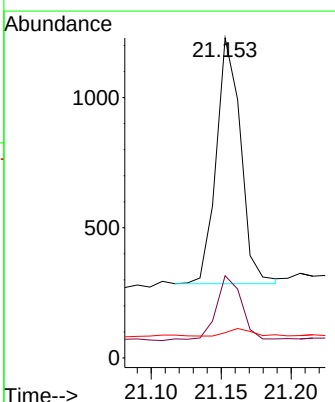
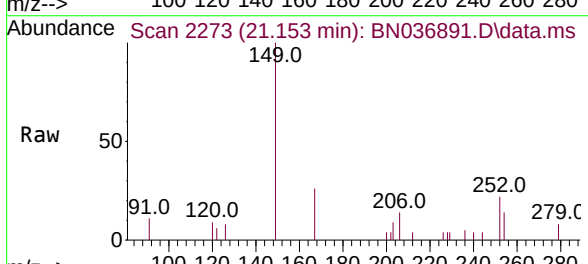
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BS

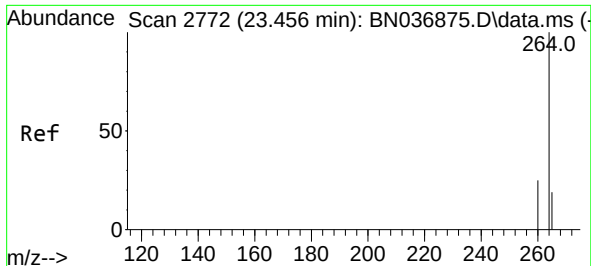
Tgt Ion:	228	Resp:	1672
Ion Ratio	Lower	Upper	
228	100		
226	33.6	26.1	39.1
229	22.6	17.0	25.4



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.481 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. -0.009 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

Tgt Ion:	149	Resp:	1144
Ion Ratio	Lower	Upper	
149	100		
167	28.0	21.0	31.4
279	3.2	3.6	5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.447 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

Instrument :

BNA_N

ClientSampleId :

PB167565BS

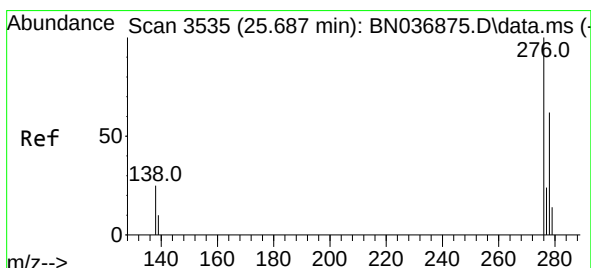
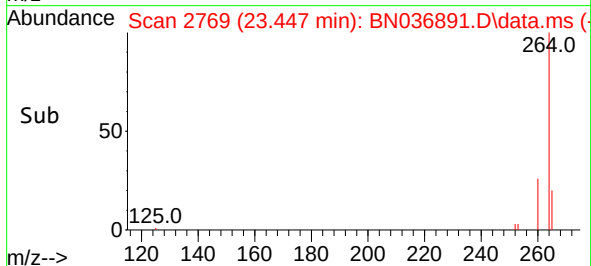
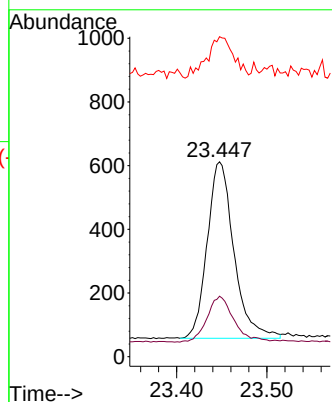
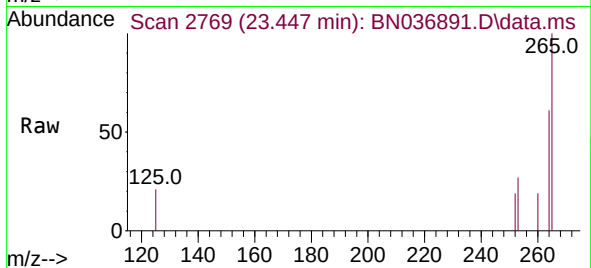
Tgt Ion:264 Resp: 1138

Ion Ratio Lower Upper

264 100

260 31.0 22.9 34.3

265 164.2 88.6 132.8#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.516 ng

RT: 25.672 min Scan# 3530

Delta R.T. -0.015 min

Lab File: BN036891.D

Acq: 11 Apr 2025 22:57

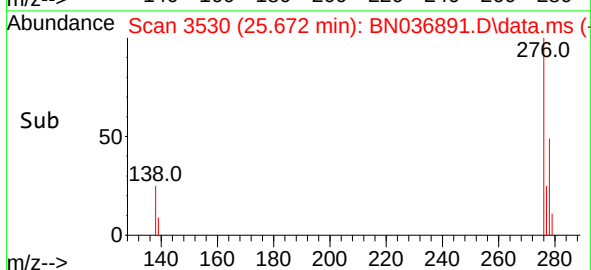
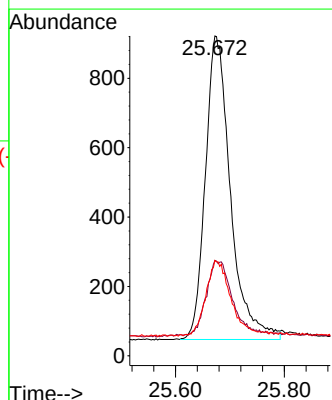
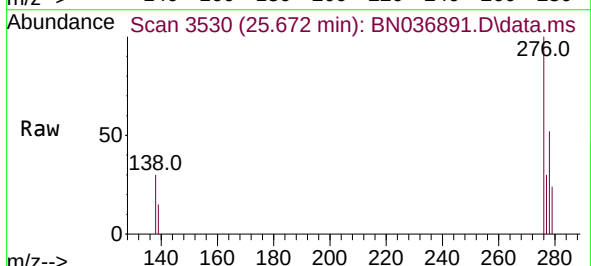
Tgt Ion:276 Resp: 2802

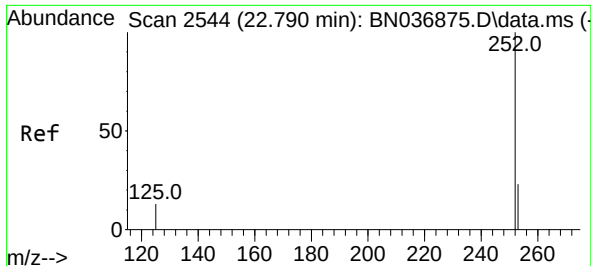
Ion Ratio Lower Upper

276 100

138 25.5 21.0 31.6

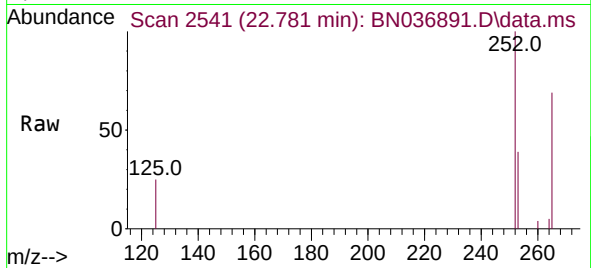
277 24.7 19.3 28.9



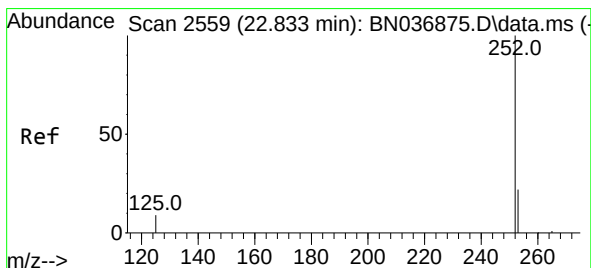
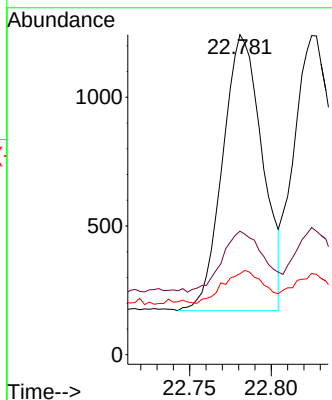


#37
Benzo(b)fluoranthene
Concen: 0.449 ng
RT: 22.781 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Instrument :
BNA_N
ClientSampleId :
PB167565BS

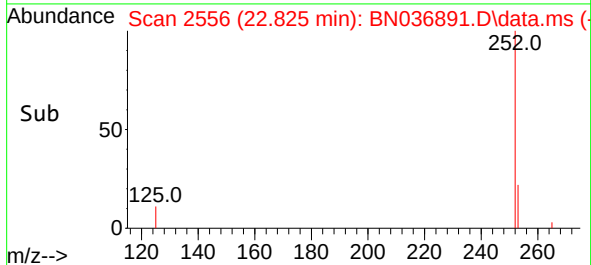
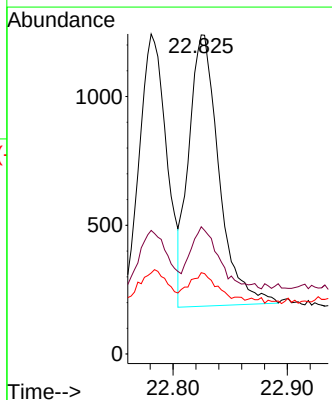
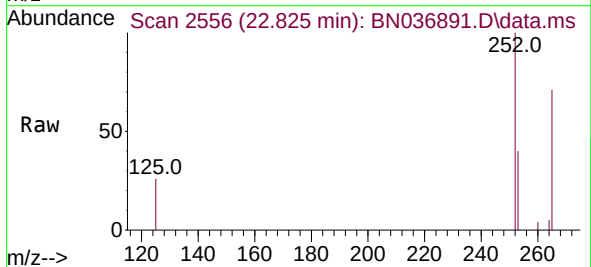


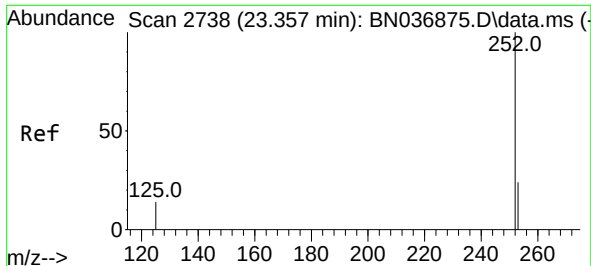
Tgt Ion:252 Resp: 1814
Ion Ratio Lower Upper
252 100
253 38.6 27.0 40.6
125 25.3 17.7 26.5



#38
Benzo(k)fluoranthene
Concen: 0.476 ng
RT: 22.825 min Scan# 2556
Delta R.T. -0.009 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

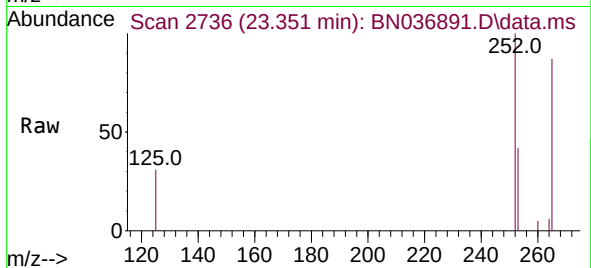
Tgt Ion:252 Resp: 1937
Ion Ratio Lower Upper
252 100
253 39.9 26.7 40.1
125 25.5 16.9 25.3#



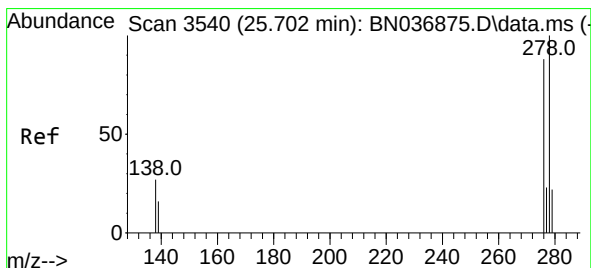
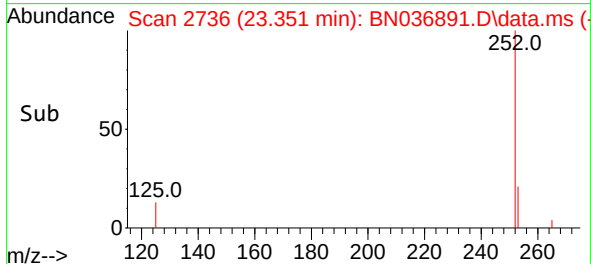
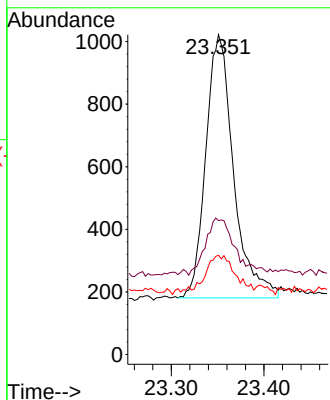


#39
Benzo(a)pyrene
Concen: 0.495 ng
RT: 23.351 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

Instrument :
BNA_N
ClientSampleId :
PB167565BS

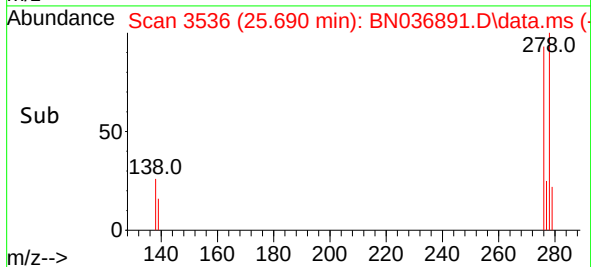
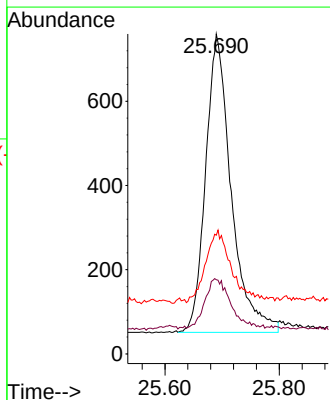
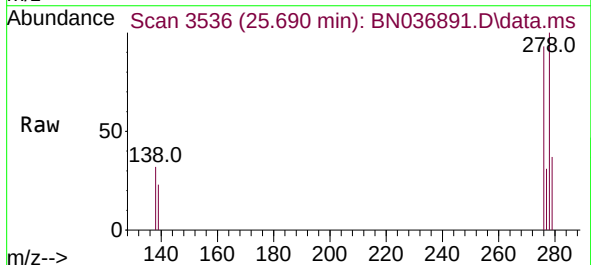


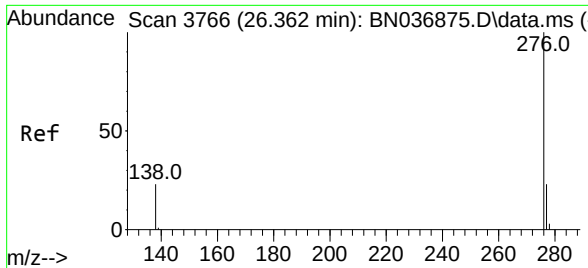
Tgt Ion:252 Resp: 1752
Ion Ratio Lower Upper
252 100
253 41.9 31.5 47.3
125 31.0 22.6 34.0



#40
Dibenzo(a,h)anthracene
Concen: 0.510 ng
RT: 25.690 min Scan# 3536
Delta R.T. -0.012 min
Lab File: BN036891.D
Acq: 11 Apr 2025 22:57

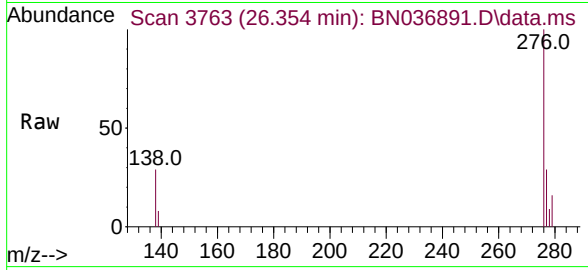
Tgt Ion:278 Resp: 2199
Ion Ratio Lower Upper
278 100
139 23.2 17.6 26.4
279 37.1 26.7 40.1



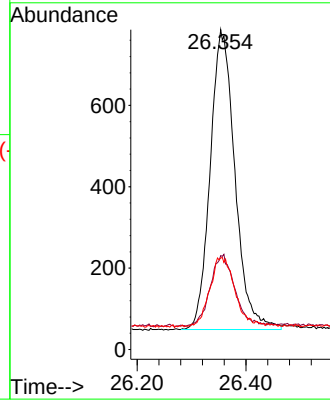
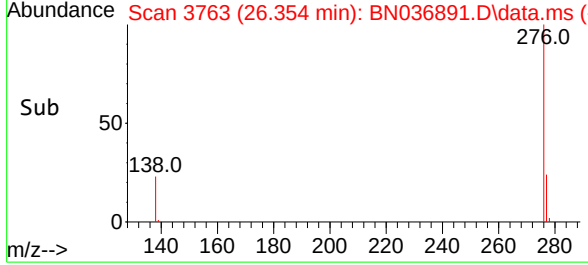


#41
 Benzo(g,h,i)perylene
 Concen: 0.478 ng
 RT: 26.354 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN036891.D
 Acq: 11 Apr 2025 22:57

Instrument :
 BNA_N
 ClientSampleId :
 PB167565BS



Tgt Ion:	276	Resp:	2329
Ion	Ratio	Lower	Upper
276	100		
277	29.4	21.8	32.8
138	28.6	21.6	32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036892.D
 Acq On : 11 Apr 2025 23:33
 Operator : RC/JU
 Sample : PB167565BSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD

Quant Time: Apr 12 00:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

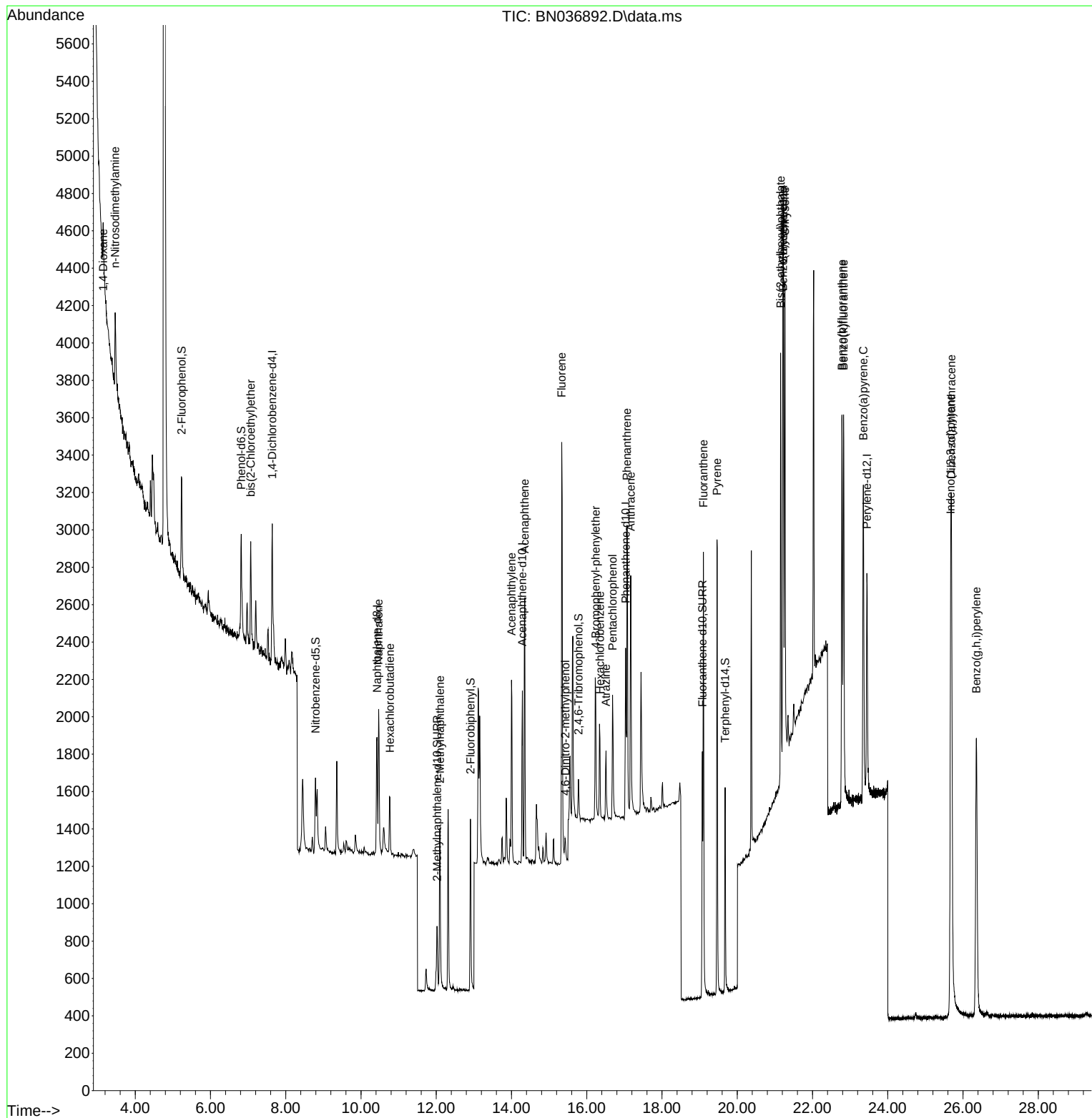
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	383	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	935	0.400	ng	0.00
13) Acenaphthene-d10	14.288	164	512	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	1263	0.400	ng	0.00
29) Chrysene-d12	21.224	240	1400	0.400	ng	# 0.00
35) Perylene-d12	23.445	264	1606	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.235	112	444	0.493	ng	0.00
5) Phenol-d6	6.817	99	498	0.432	ng	0.00
8) Nitrobenzene-d5	8.792	82	384	0.370	ng	0.00
11) 2-Methylnaphthalene-d10	12.021	152	722	0.531	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	124	0.502	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	1109	0.451	ng	0.00
27) Fluoranthene-d10	19.073	212	1577	0.443	ng	0.00
31) Terphenyl-d14	19.677	244	1153	0.434	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.148	88	180	0.405	ng	# 28
3) n-Nitrosodimethylamine	3.466	42	406	0.413	ng	# 96
6) bis(2-Chloroethyl)ether	7.069	93	418	0.370	ng	96
9) Naphthalene	10.468	128	1111	0.413	ng	95
10) Hexachlorobutadiene	10.767	225	262	0.429	ng	# 97
12) 2-Methylnaphthalene	12.097	142	721	0.416	ng	96
16) Acenaphthylene	13.999	152	1152	0.484	ng	98
17) Acenaphthene	14.352	154	731	0.472	ng	96
18) Fluorene	15.336	166	1033	0.484	ng	96
20) 4,6-Dinitro-2-methylph...	15.432	198	122	0.408	ng	97
21) 4-Bromophenyl-phenylether	16.239	248	327	0.432	ng	96
22) Hexachlorobenzene	16.351	284	372	0.416	ng	92
23) Atrazine	16.512	200	363	0.491	ng	94
24) Pentachlorophenol	16.686	266	355	0.757	ng	96
25) Phenanthrene	17.071	178	1707	0.451	ng	97
26) Anthracene	17.170	178	1603	0.475	ng	97
28) Fluoranthene	19.101	202	2222	0.466	ng	99
30) Pyrene	19.463	202	2339	0.442	ng	99
32) Benzo(a)anthracene	21.215	228	2255	0.456	ng	98
33) Chrysene	21.269	228	2535	0.465	ng	99
34) Bis(2-ethylhexyl)phtha...	21.153	149	1697	0.462	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.672	276	3700	0.483	ng	97
37) Benzo(b)fluoranthene	22.784	252	2667	0.468	ng	100
38) Benzo(k)fluoranthene	22.825	252	2840	0.494	ng	99
39) Benzo(a)pyrene	23.351	252	2534	0.507	ng	96
40) Dibenzo(a,h)anthracene	25.693	278	2949	0.484	ng	99
41) Benzo(g,h,i)perylene	26.357	276	3007	0.437	ng	99

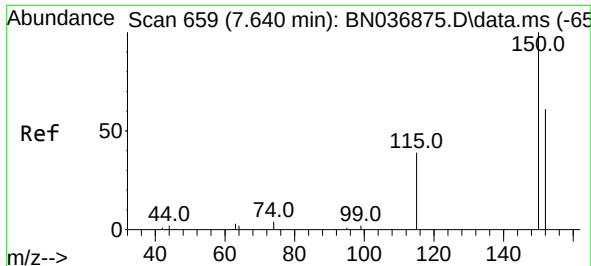
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036892.D
Acq On : 11 Apr 2025 23:33
Operator : RC/JU
Sample : PB167565BSD
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167565BSD

Quant Time: Apr 12 00:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

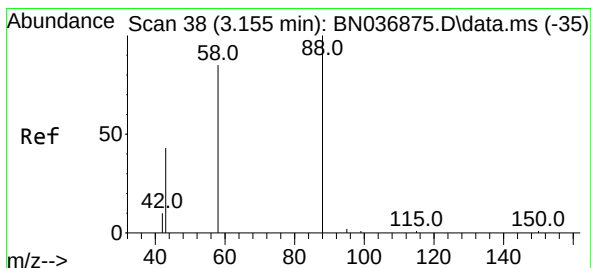
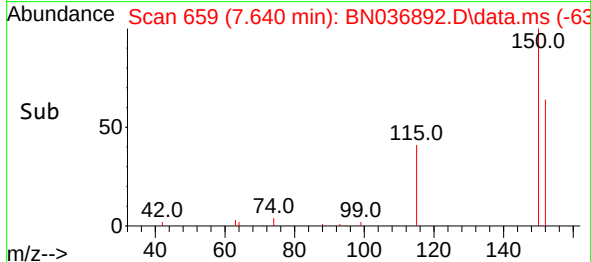
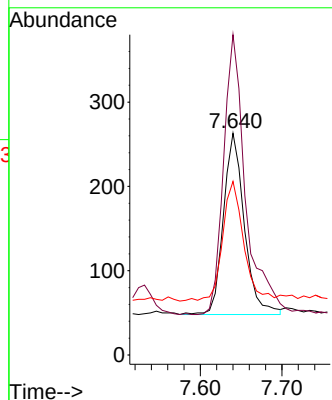
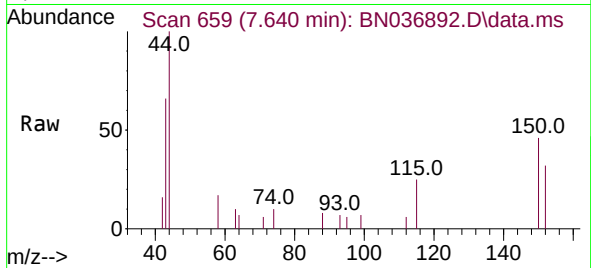




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.640 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

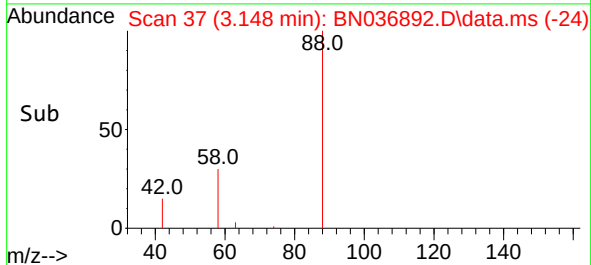
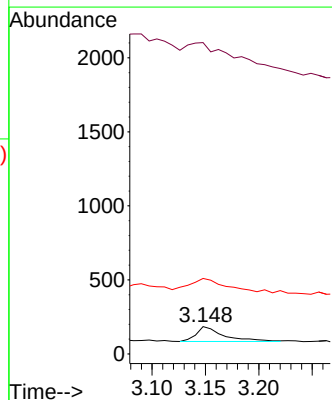
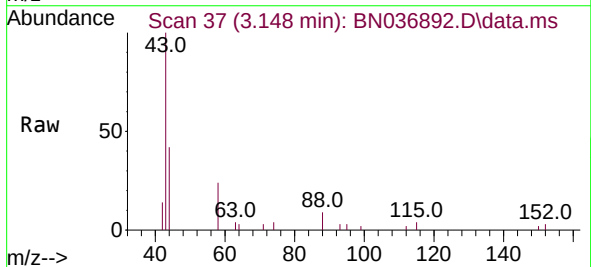
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD

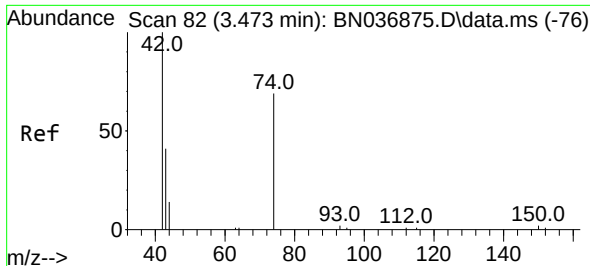
Tgt Ion:152 Resp: 383
 Ion Ratio Lower Upper
 152 100
 150 144.5 123.0 184.6
 115 78.3 60.1 90.1



#2
 1,4-Dioxane
 Concen: 0.405 ng
 RT: 3.148 min Scan# 37
 Delta R.T. -0.007 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

Tgt Ion: 88 Resp: 180
 Ion Ratio Lower Upper
 88 100
 43 0.0 39.2 58.8#
 58 142.8 63.5 95.3#

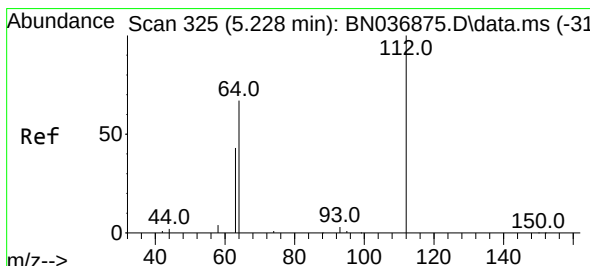
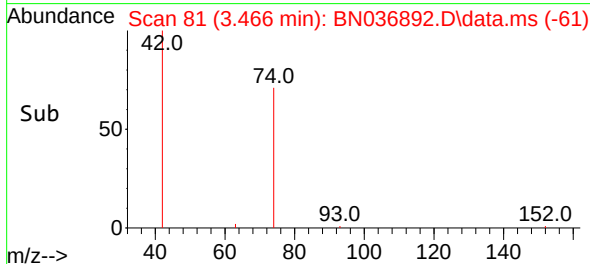
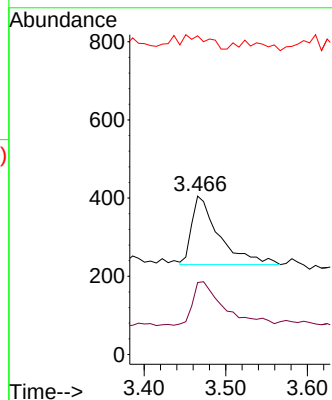
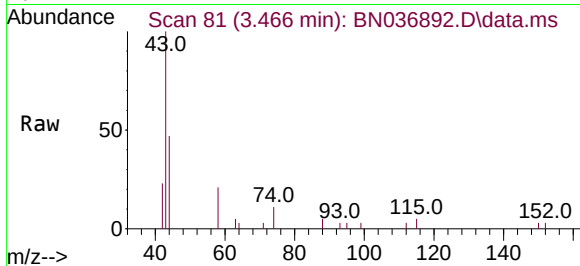




#3
 n-Nitrosodimethylamine
 Concen: 0.413 ng
 RT: 3.466 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

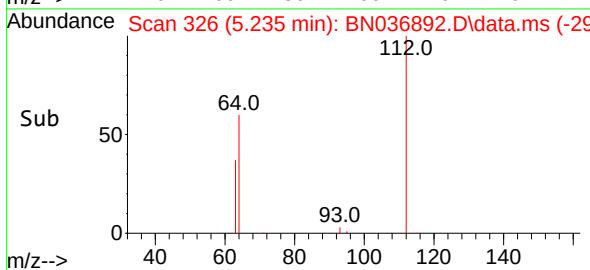
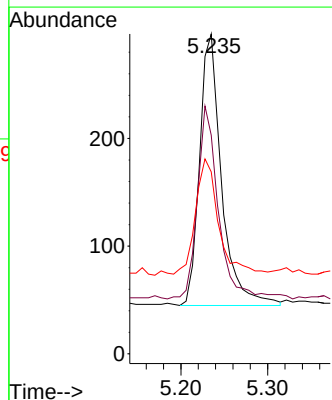
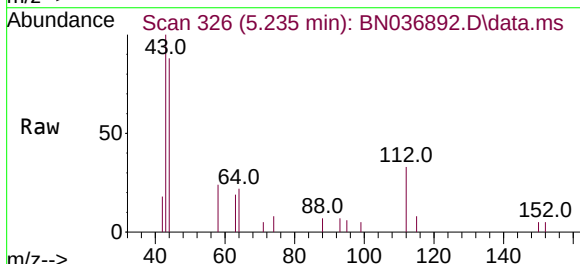
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD

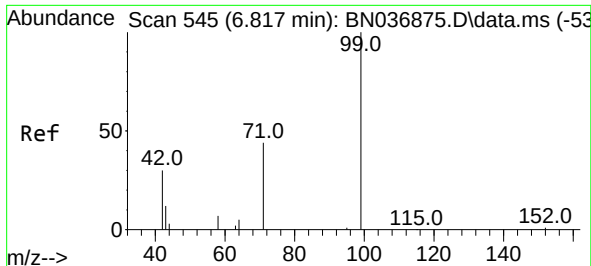
Tgt Ion: 42 Resp: 406
 Ion Ratio Lower Upper
 42 100
 74 71.4 54.6 81.8
 44 0.0 0.0 0.0



#4
 2-Fluorophenol
 Concen: 0.493 ng
 RT: 5.235 min Scan# 326
 Delta R.T. 0.007 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

Tgt Ion: 112 Resp: 444
 Ion Ratio Lower Upper
 112 100
 64 68.5 54.0 81.0
 63 46.2 35.1 52.7

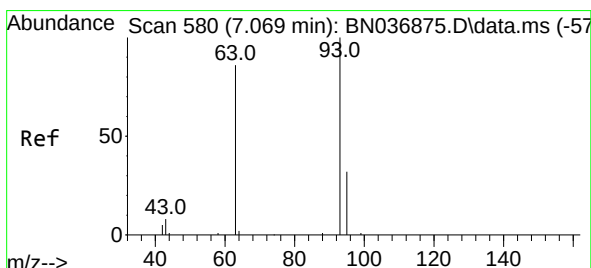
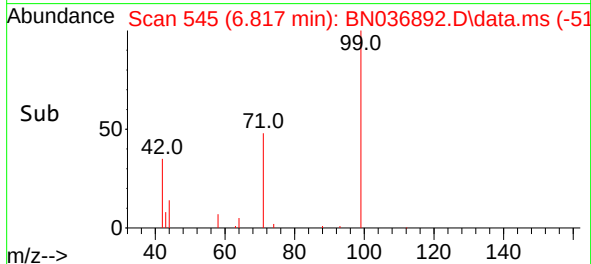
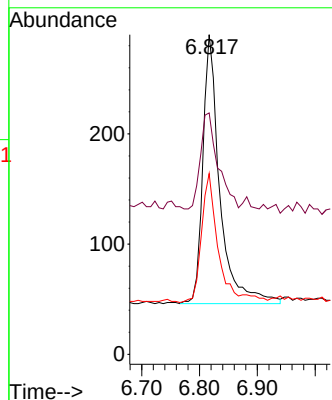
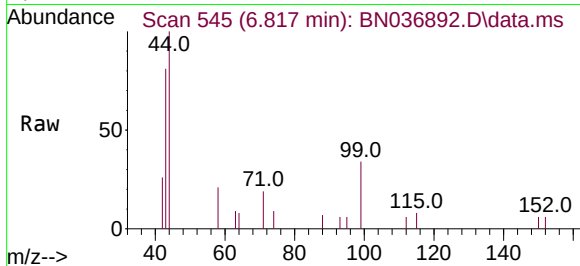




#5
Phenol-d6
Concen: 0.432 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

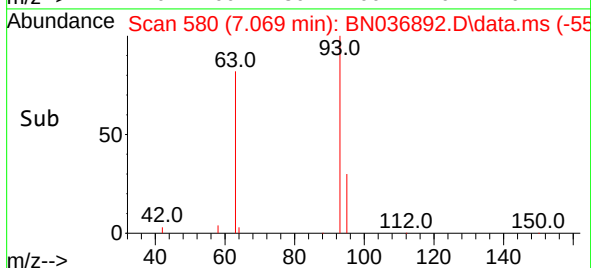
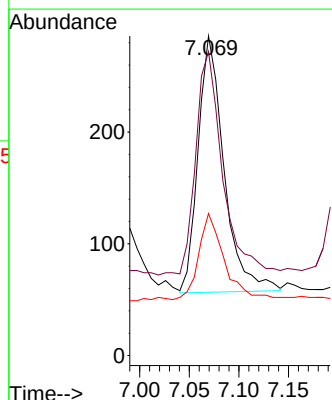
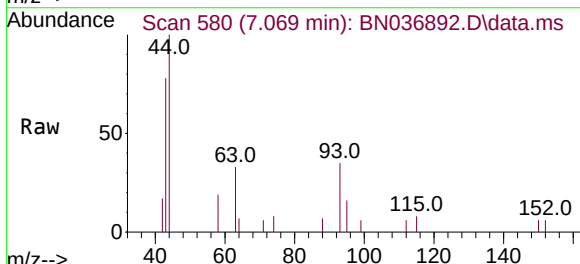
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

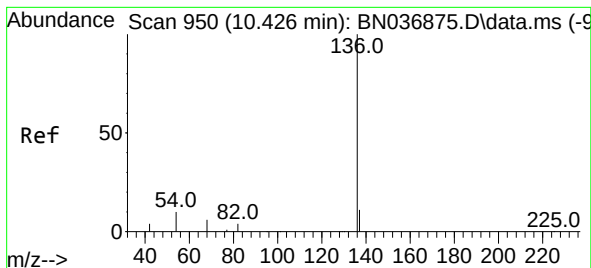
Tgt Ion: 99 Resp: 498
Ion Ratio Lower Upper
99 100
42 36.7 30.9 46.3
71 47.8 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.370 ng
RT: 7.069 min Scan# 580
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion: 93 Resp: 418
Ion Ratio Lower Upper
93 100
63 90.7 76.4 114.6
95 33.0 26.1 39.1





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.426 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD

Tgt Ion:136 Resp: 935

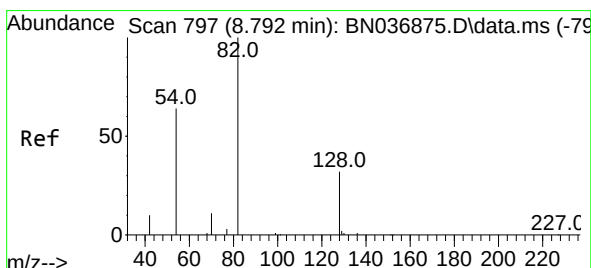
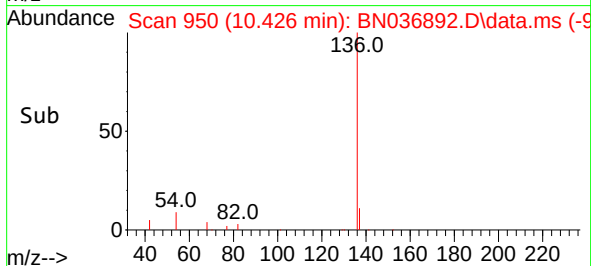
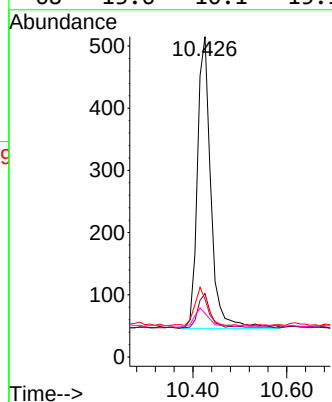
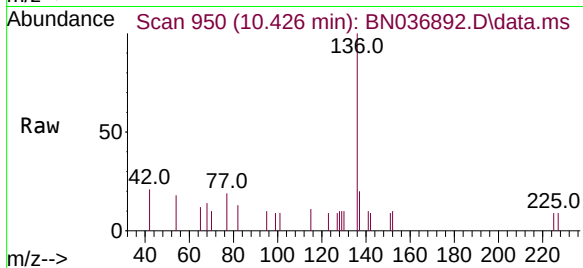
Ion Ratio Lower Upper

136 100

137 19.8 13.5 20.3

54 18.1 12.8 19.2

68 13.6 10.1 15.1



#8

Nitrobenzene-d5

Concen: 0.370 ng

RT: 8.792 min Scan# 797

Delta R.T. 0.000 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

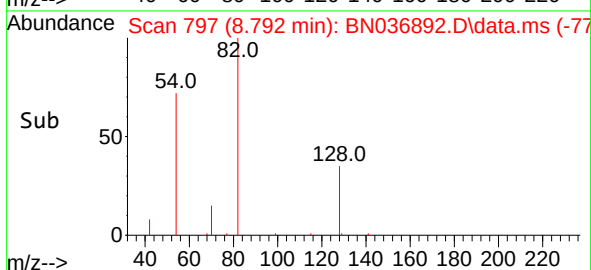
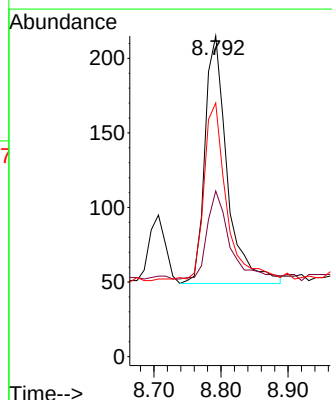
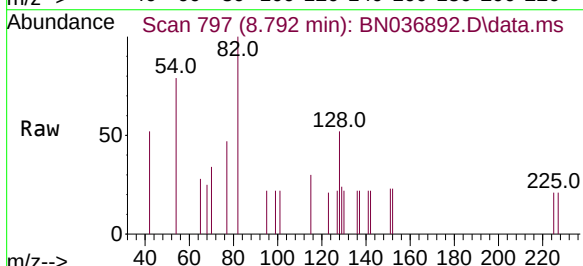
Tgt Ion: 82 Resp: 384

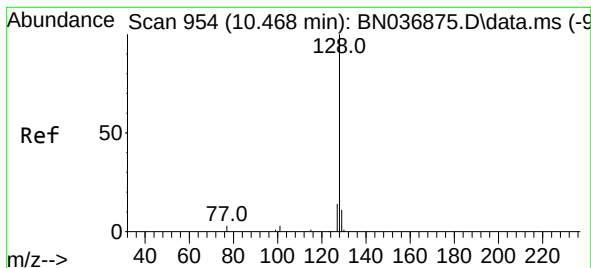
Ion Ratio Lower Upper

82 100

128 51.6 35.5 53.3

54 79.1 56.2 84.4





#9

Naphthalene

Concen: 0.413 ng

RT: 10.468 min Scan# 911

Delta R.T. 0.000 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

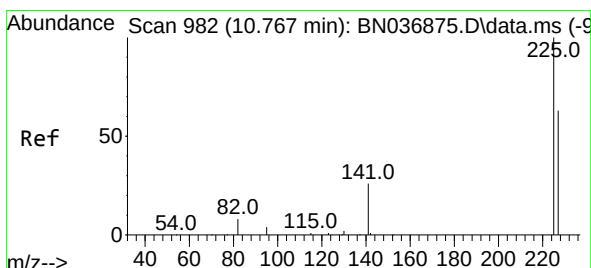
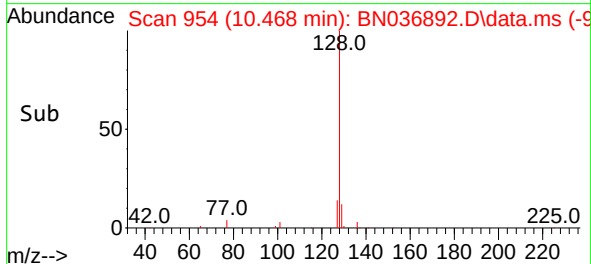
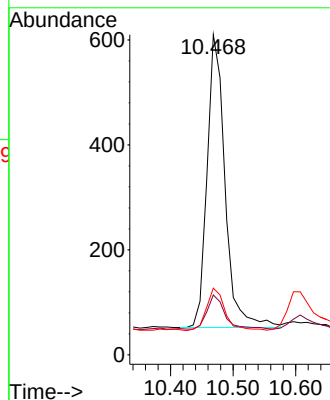
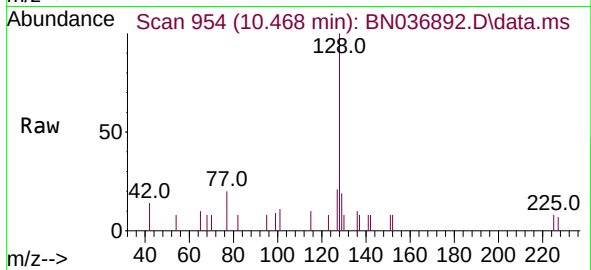
Instrument :

BNA_N

ClientSampleId :

PB167565BSD

Tgt Ion:	128	Resp:	1111
Ion	Ratio	Lower	Upper
128	100		
129	18.7	12.9	19.3
127	20.8	15.0	22.6



#10

Hexachlorobutadiene

Concen: 0.429 ng

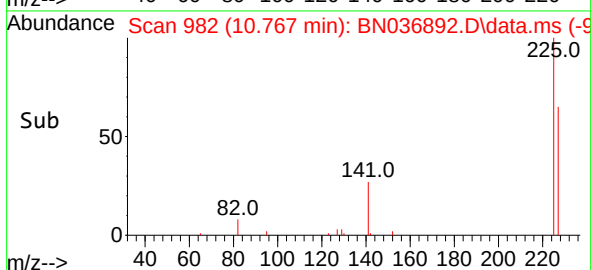
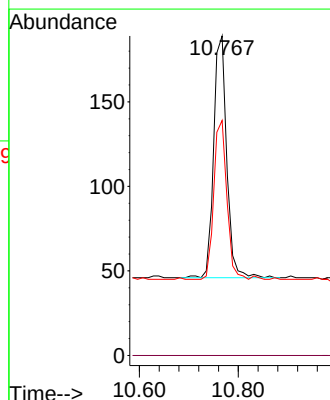
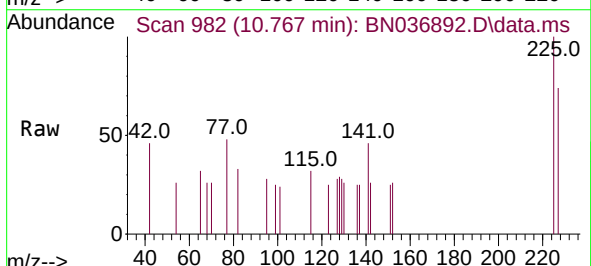
RT: 10.767 min Scan# 982

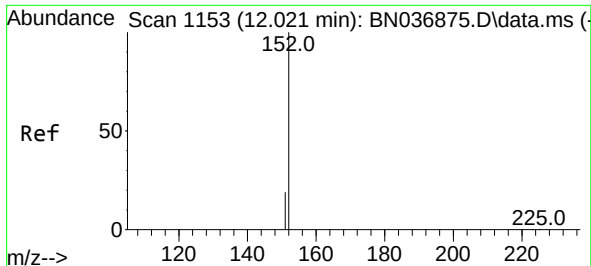
Delta R.T. 0.000 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Tgt Ion:	225	Resp:	262
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.3	50.5	75.7

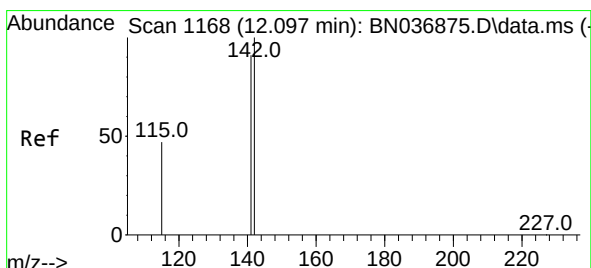
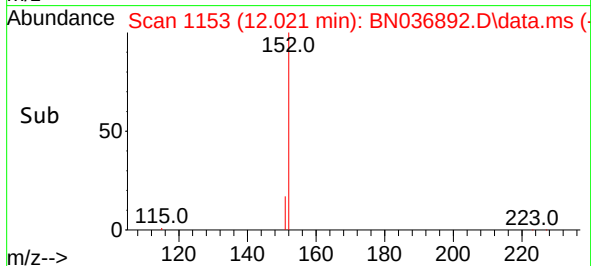
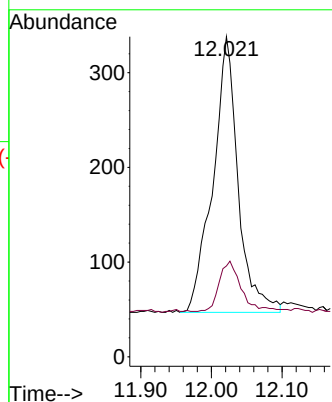
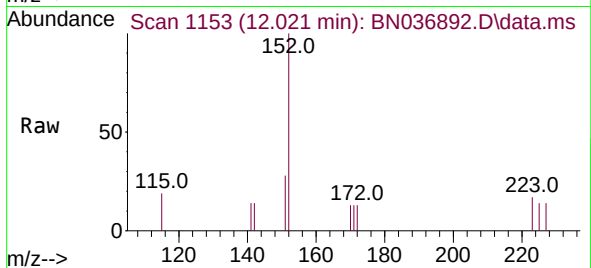




#11
2-Methylnaphthalene-d10
Concen: 0.531 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

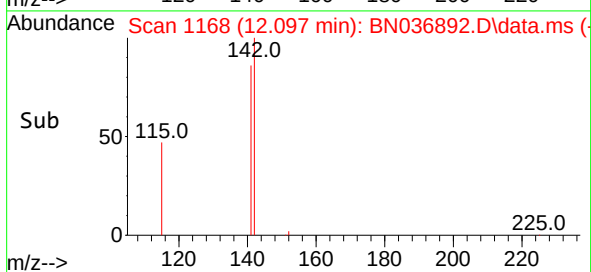
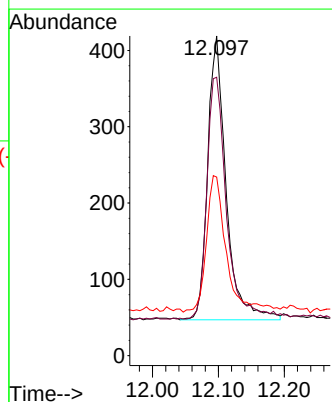
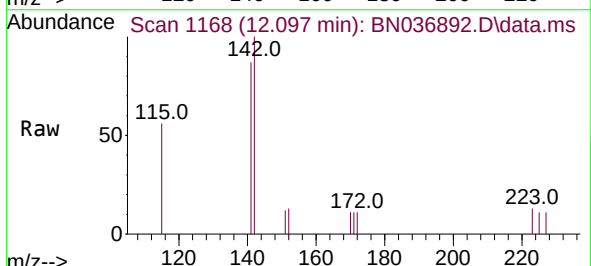
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

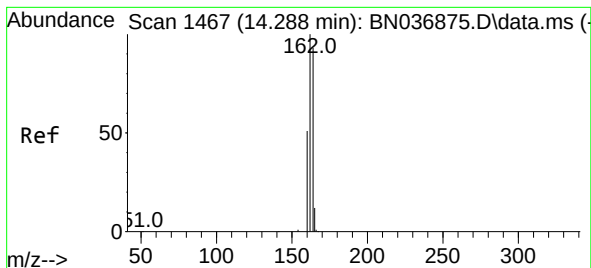
Tgt Ion:152 Resp: 722
Ion Ratio Lower Upper
152 100
151 16.5 17.8 26.8#



#12
2-Methylnaphthalene
Concen: 0.416 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:142 Resp: 721
Ion Ratio Lower Upper
142 100
141 87.1 73.8 110.8
115 55.8 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD

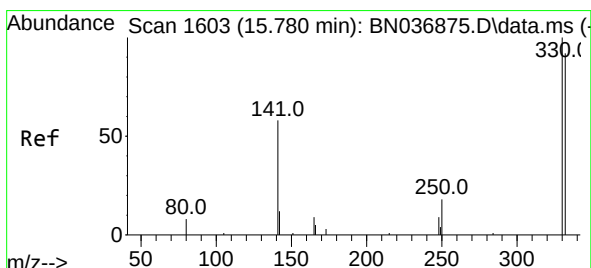
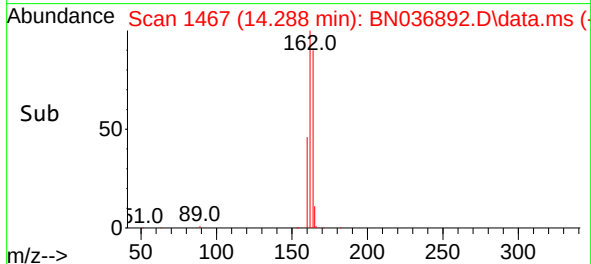
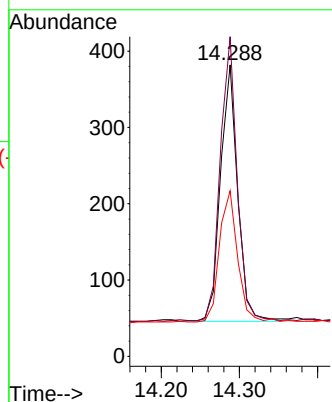
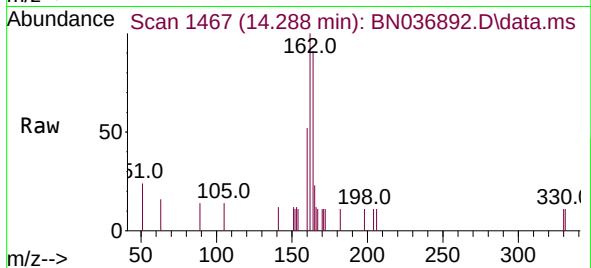
Tgt Ion:164 Resp: 512

Ion Ratio Lower Upper

164 100

162 109.7 85.7 128.5

160 56.8 46.9 70.3



#14

2,4,6-Tribromophenol

Concen: 0.502 ng

RT: 15.780 min Scan# 1603

Delta R.T. 0.000 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

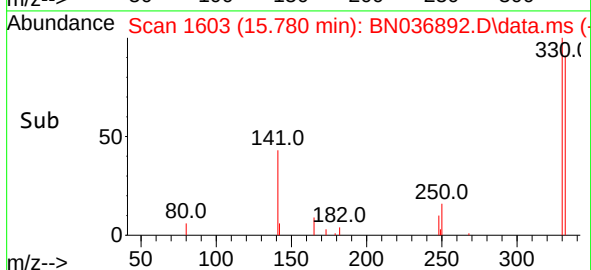
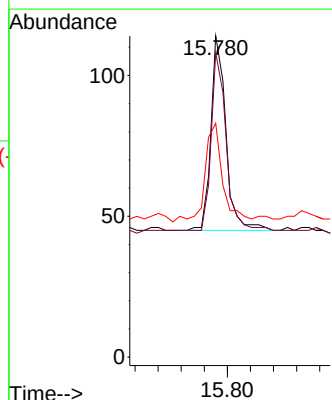
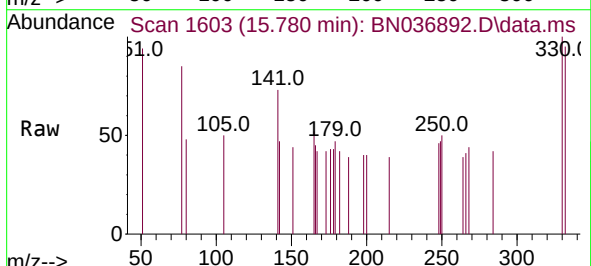
Tgt Ion:330 Resp: 124

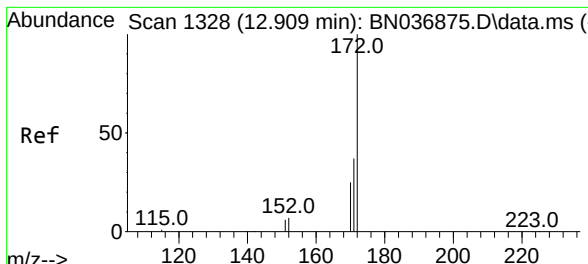
Ion Ratio Lower Upper

330 100

332 90.3 87.0 130.6

141 59.7 45.3 67.9

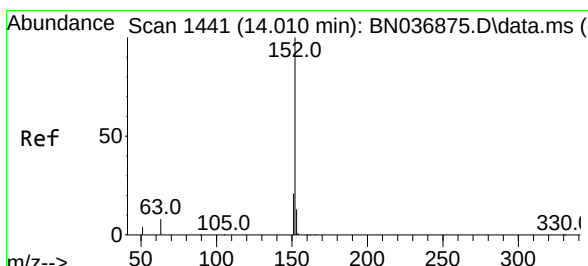
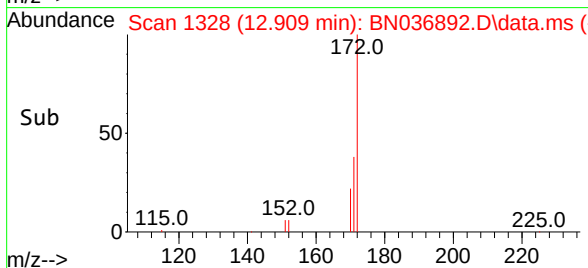
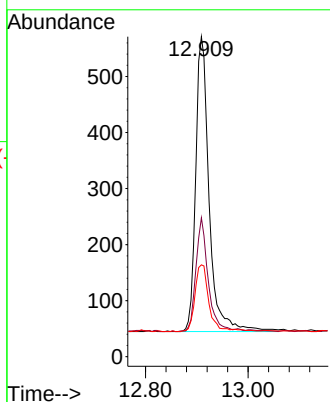
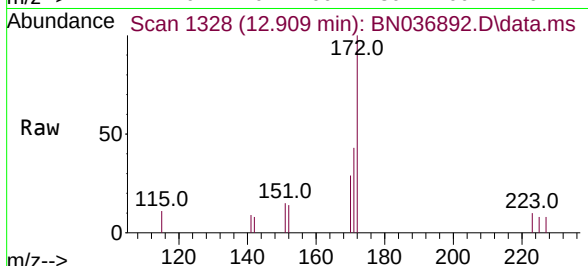




#15
 2-Fluorobiphenyl
 Concen: 0.451 ng
 RT: 12.909 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

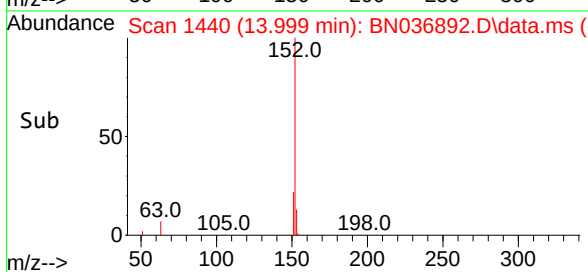
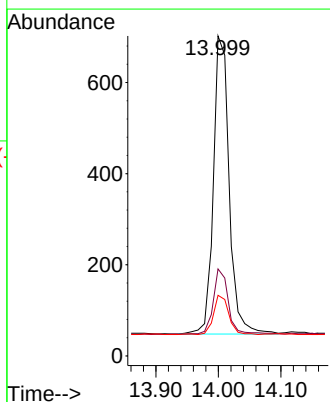
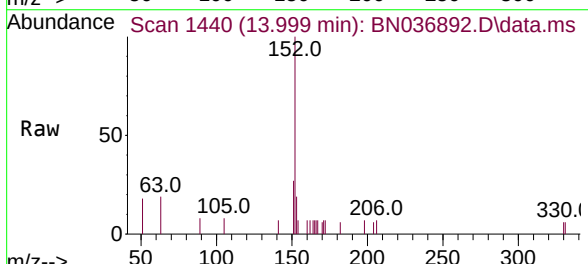
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD

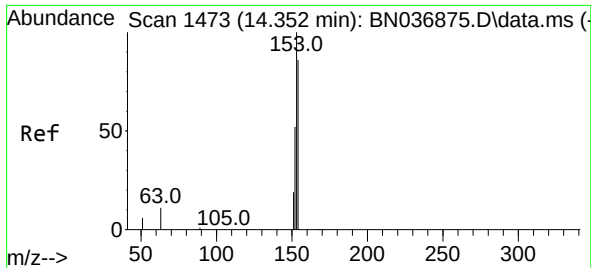
Tgt Ion:	172	Resp:	1109
Ion	Ratio	Lower	Upper
172	100		
171	43.4	32.7	49.1
170	28.7	23.3	34.9



#16
 Acenaphthylene
 Concen: 0.484 ng
 RT: 13.999 min Scan# 1440
 Delta R.T. -0.011 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

Tgt Ion:	152	Resp:	1152
Ion	Ratio	Lower	Upper
152	100		
151	21.7	16.4	24.6
153	12.7	10.3	15.5

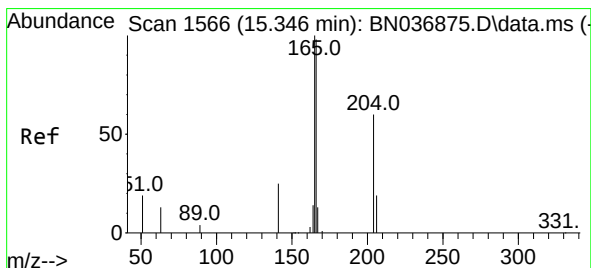
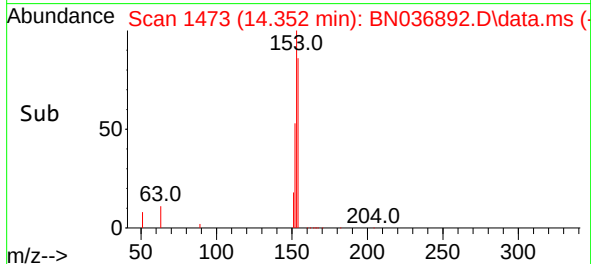
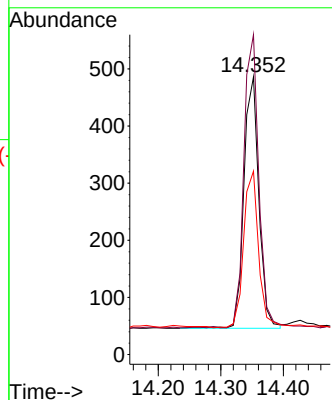
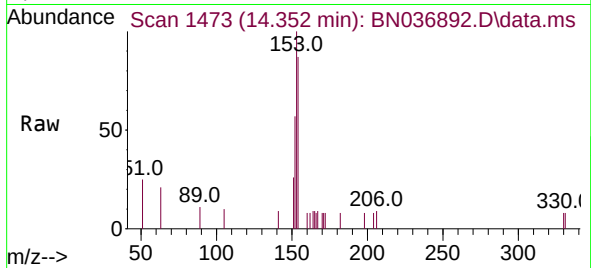




#17
Acenaphthene
Concen: 0.472 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

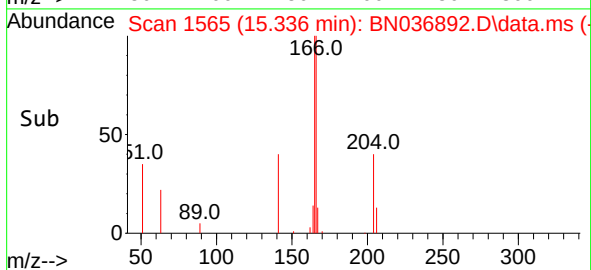
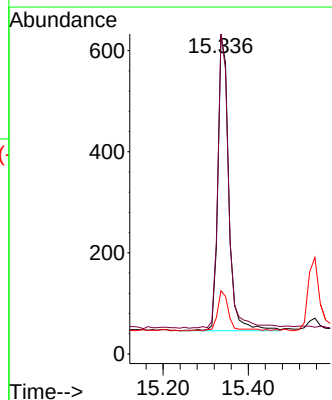
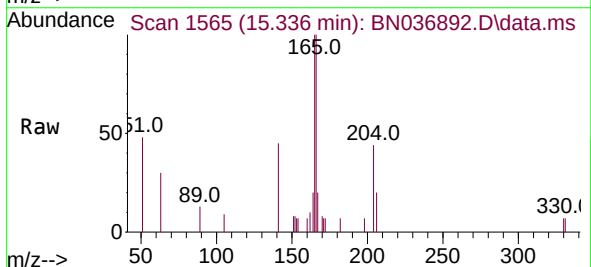
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

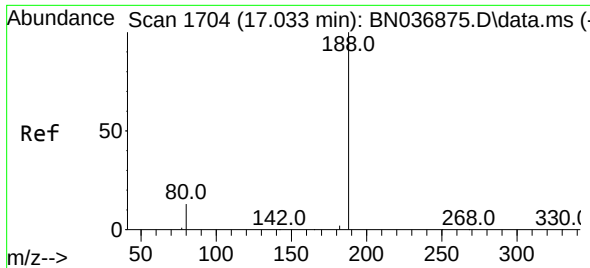
Tgt Ion:154 Resp: 731
Ion Ratio Lower Upper
154 100
153 116.1 97.8 146.6
152 64.2 52.7 79.1



#18
Fluorene
Concen: 0.484 ng
RT: 15.336 min Scan# 1565
Delta R.T. -0.011 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:166 Resp: 1033
Ion Ratio Lower Upper
166 100
165 99.0 83.2 124.8
167 14.1 11.1 16.7

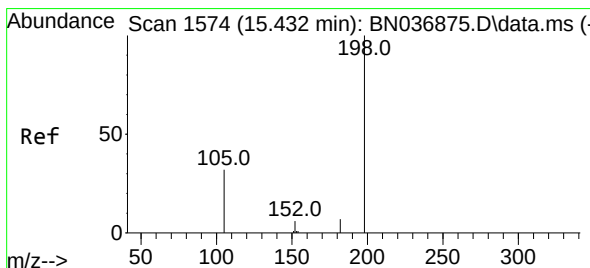
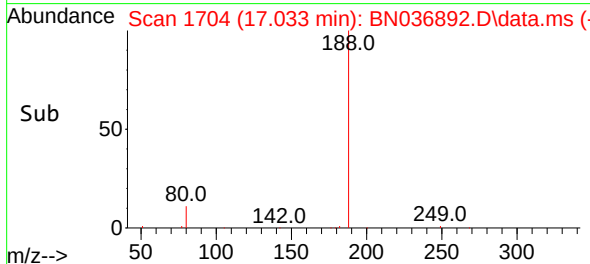
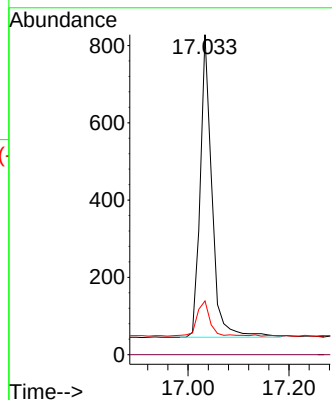
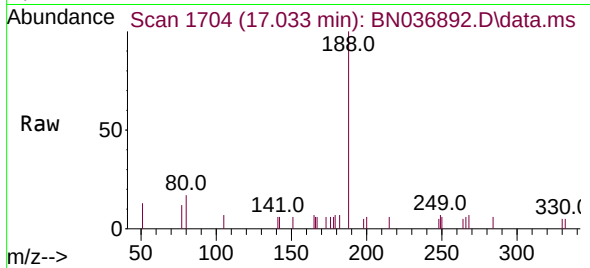




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

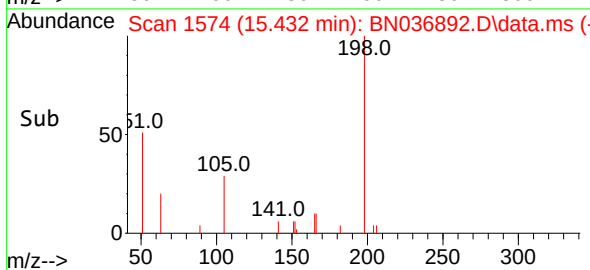
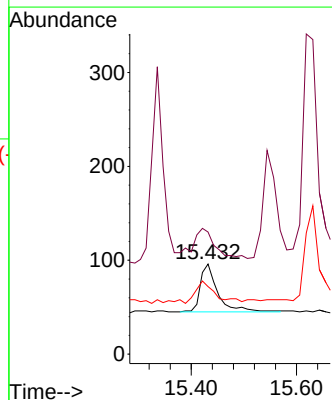
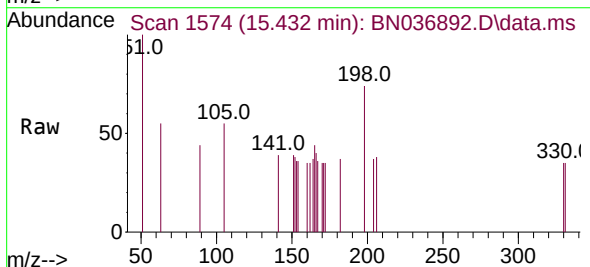
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

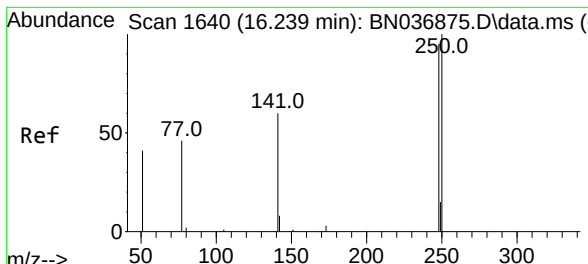
Tgt Ion:188 Resp: 1263
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.8 13.9 20.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.408 ng
RT: 15.432 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

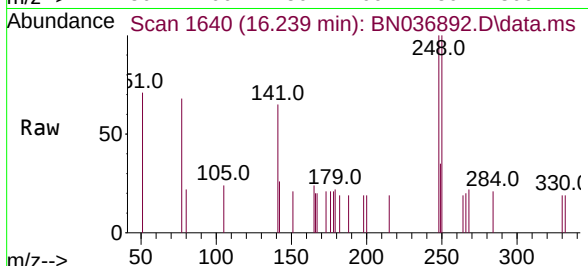
Tgt Ion:198 Resp: 122
Ion Ratio Lower Upper
198 100
51 135.4 107.6 161.4
105 75.0 55.2 82.8



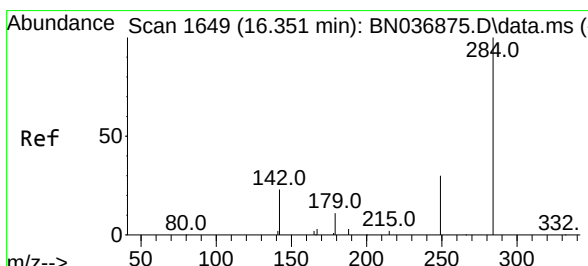
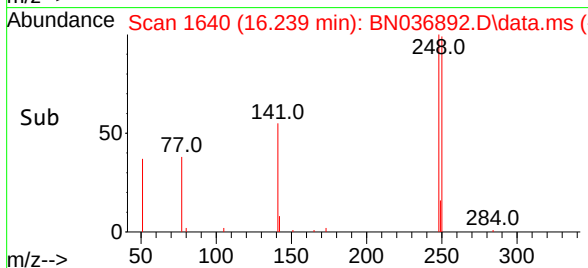
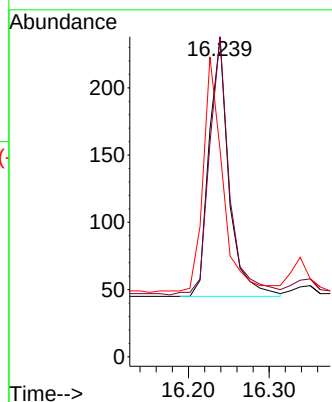


#21
4-Bromophenyl-phenylether
Concen: 0.432 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Instrument :
BNA_N
ClientSampleId :
PB167565BSD

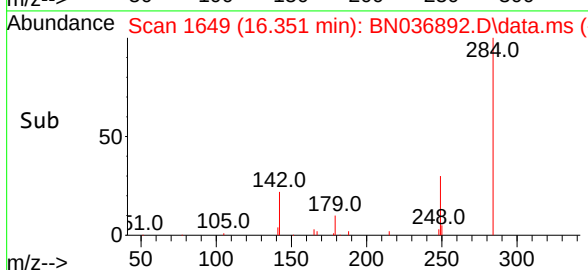
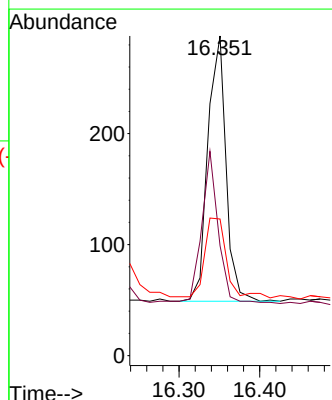
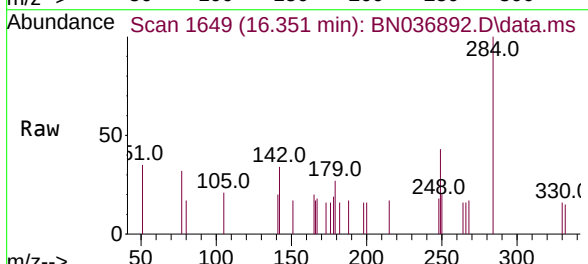


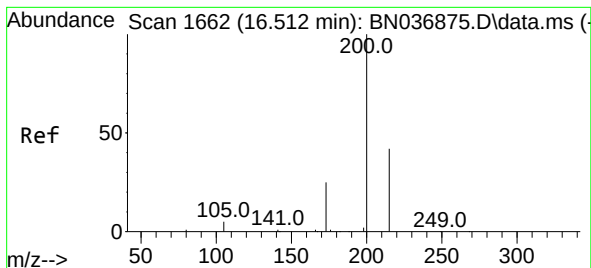
Tgt Ion:	248	Resp:	327
Ion Ratio	Lower	Upper	
248	100		
250	100.4	83.5	125.3
141	65.0	55.3	82.9



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:	284	Resp:	372
Ion Ratio	Lower	Upper	
284	100		
142	53.8	37.7	56.5
249	39.0	29.0	43.6





#23

Atrazine

Concen: 0.491 ng

RT: 16.512 min Scan# 1662

Delta R.T. 0.000 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD

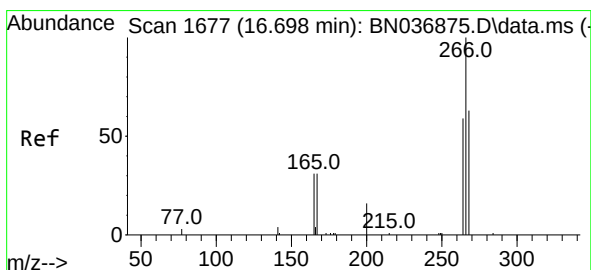
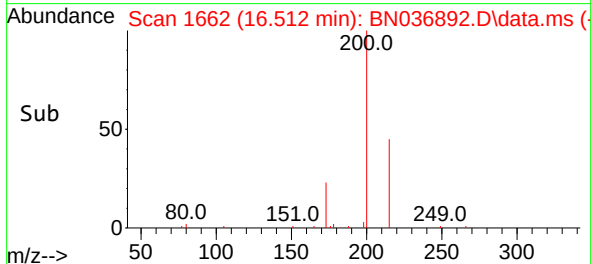
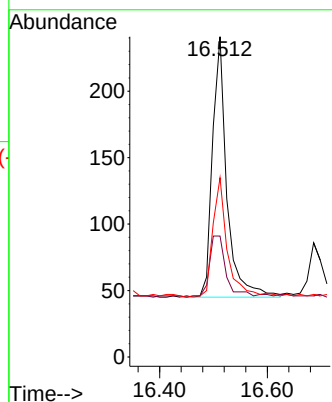
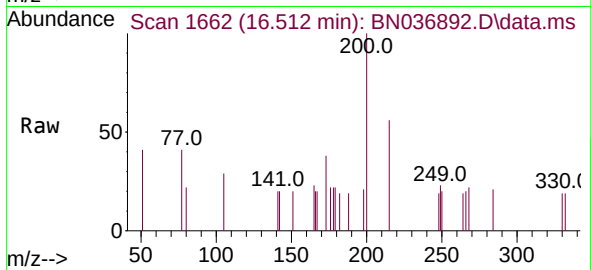
Tgt Ion:200 Resp: 363

Ion Ratio Lower Upper

200 100

173 37.8 28.6 43.0

215 56.0 40.5 60.7



#24

Pentachlorophenol

Concen: 0.757 ng

RT: 16.686 min Scan# 1676

Delta R.T. -0.012 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

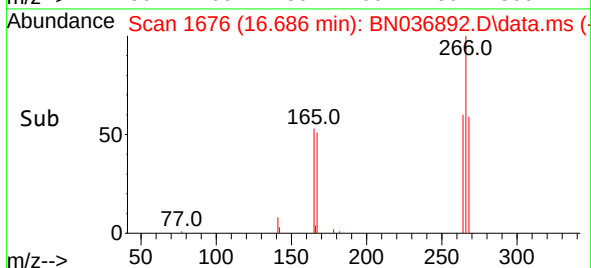
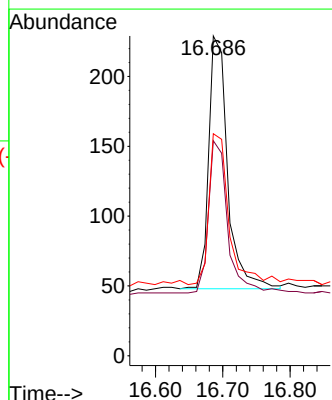
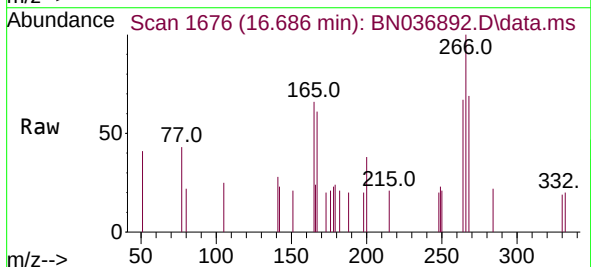
Tgt Ion:266 Resp: 355

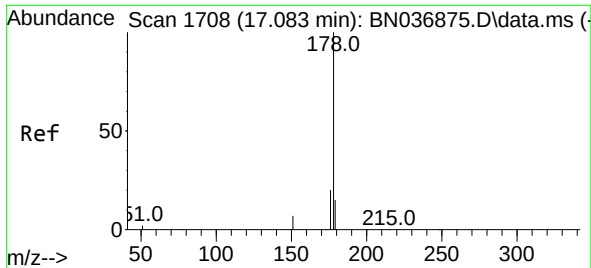
Ion Ratio Lower Upper

266 100

264 61.1 44.6 66.8

268 65.9 51.8 77.6

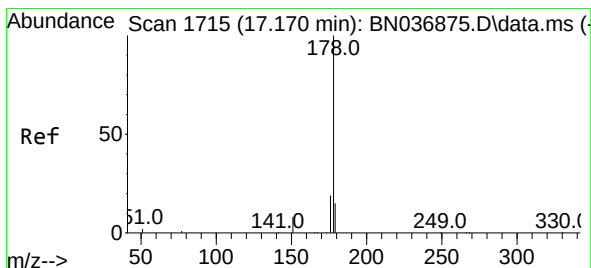
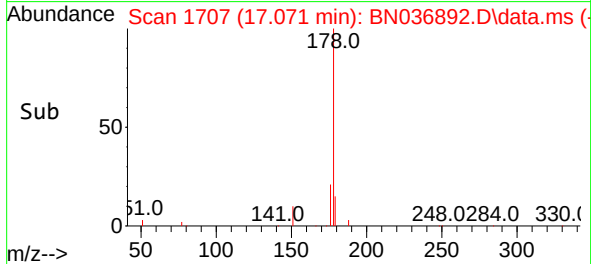
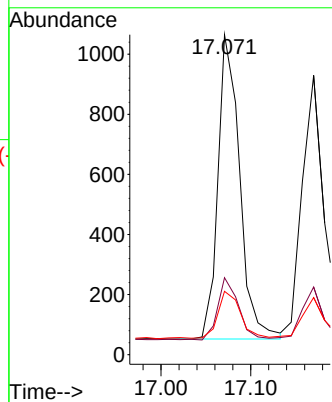
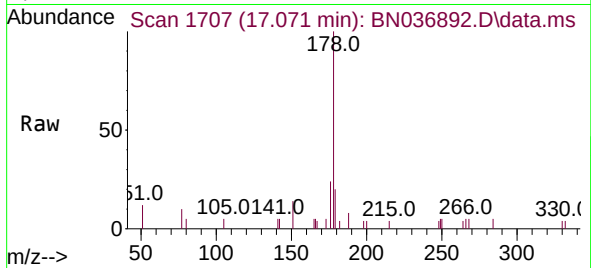




#25
Phenanthrene
Concen: 0.451 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

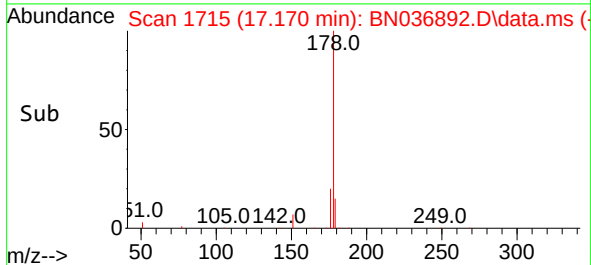
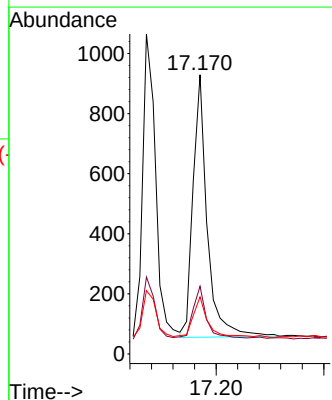
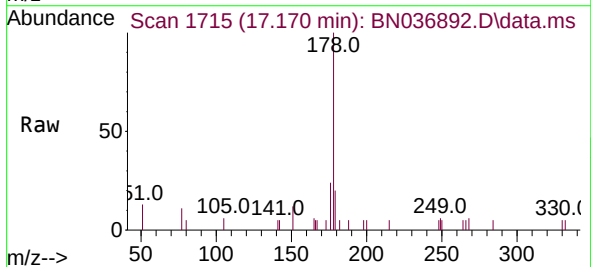
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

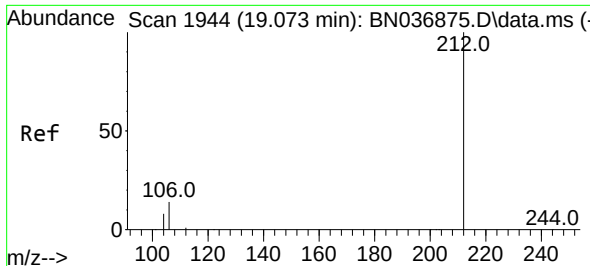
Tgt Ion:178 Resp: 1707
Ion Ratio Lower Upper
178 100
176 19.3 16.6 25.0
179 16.7 12.8 19.2



#26
Anthracene
Concen: 0.475 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:178 Resp: 1603
Ion Ratio Lower Upper
178 100
176 18.4 15.8 23.6
179 17.5 12.6 18.8

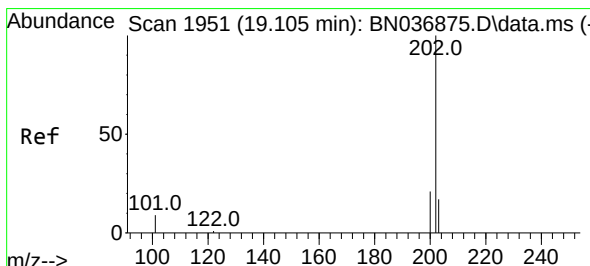
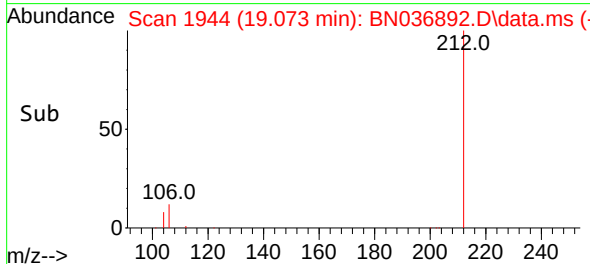
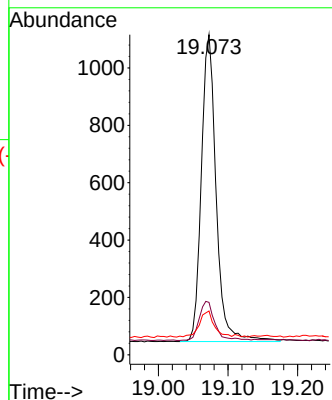
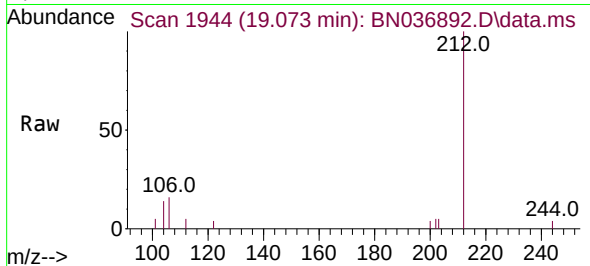




#27
Fluoranthene-d10
Concen: 0.443 ng
RT: 19.073 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

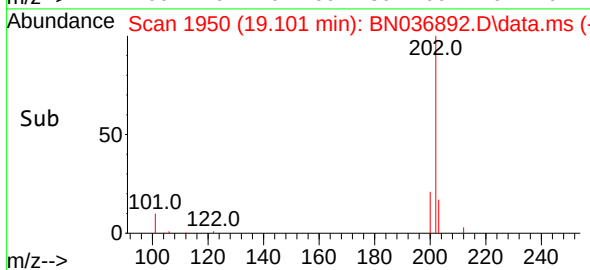
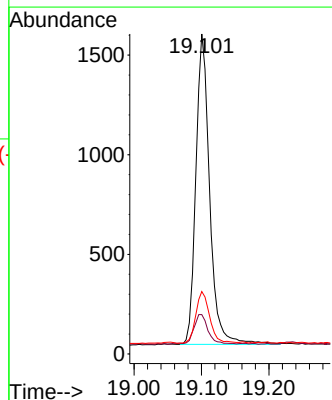
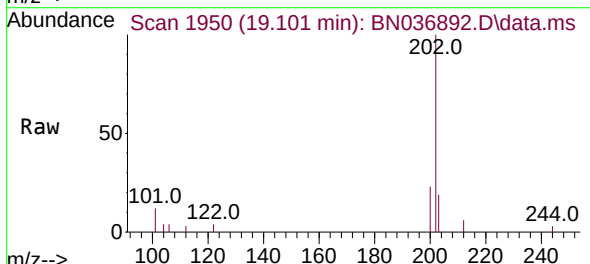
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

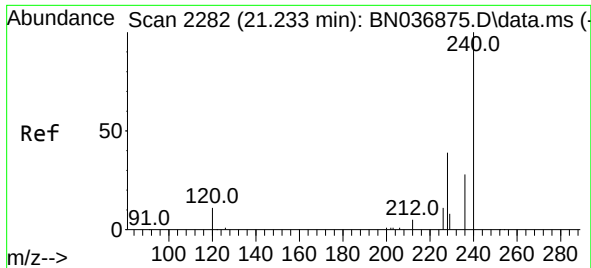
Tgt Ion:212 Resp: 1577
Ion Ratio Lower Upper
212 100
106 13.4 11.2 16.8
104 8.4 7.5 11.3



#28
Fluoranthene
Concen: 0.466 ng
RT: 19.101 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:202 Resp: 2222
Ion Ratio Lower Upper
202 100
101 10.0 8.5 12.7
203 16.7 13.8 20.6

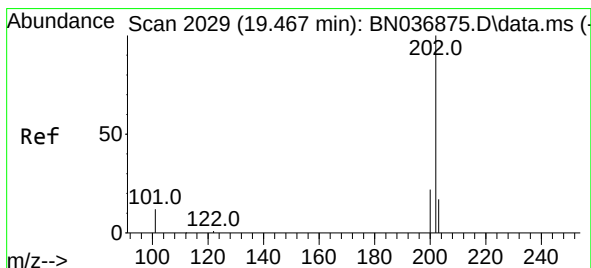
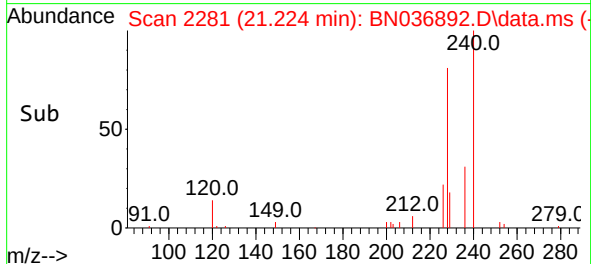
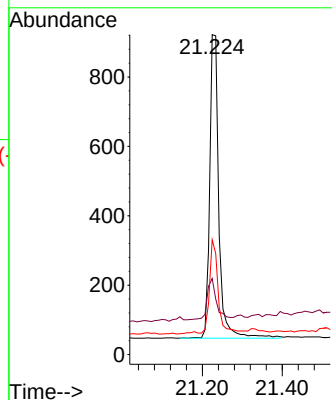
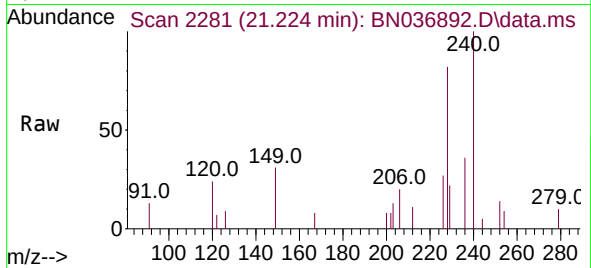




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.224 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

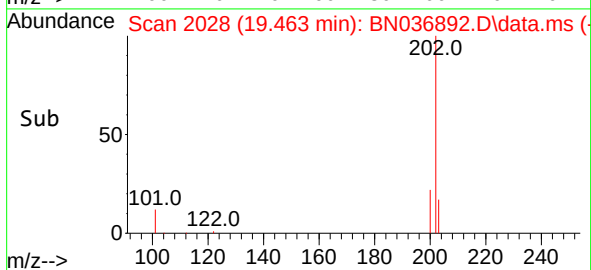
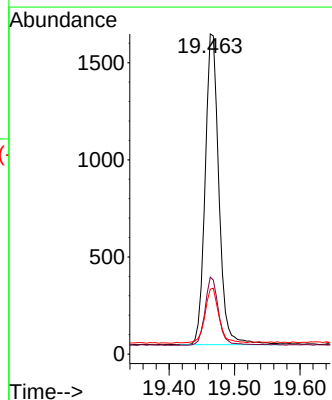
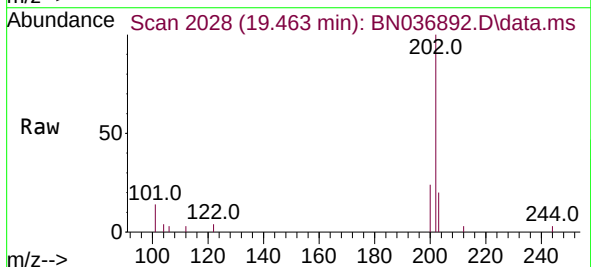
Instrument :
BNA_N
ClientSampleId :
PB167565BSD

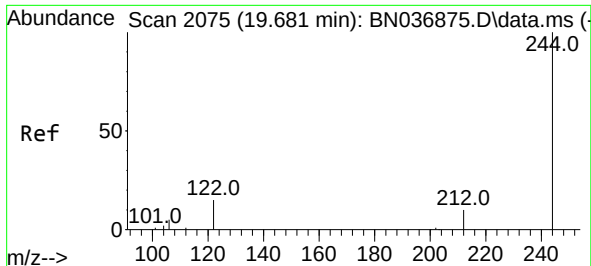
Tgt Ion:240 Resp: 1400
Ion Ratio Lower Upper
240 100
120 23.8 15.8 23.6#
236 35.9 25.8 38.8



#30
Pyrene
Concen: 0.442 ng
RT: 19.463 min Scan# 2028
Delta R.T. -0.005 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Tgt Ion:202 Resp: 2339
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.5 14.5 21.7

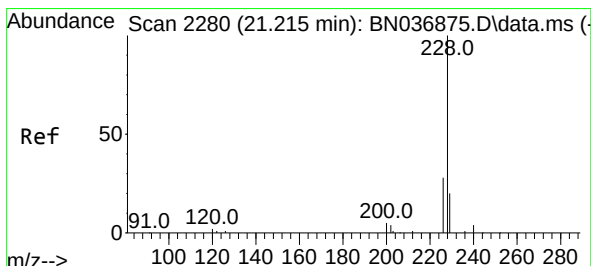
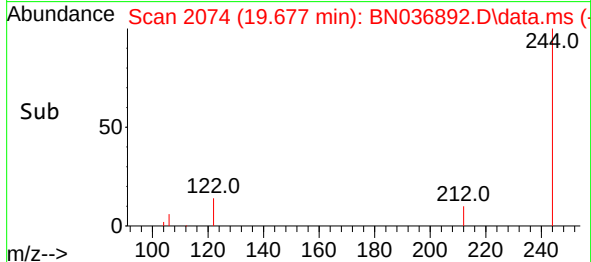
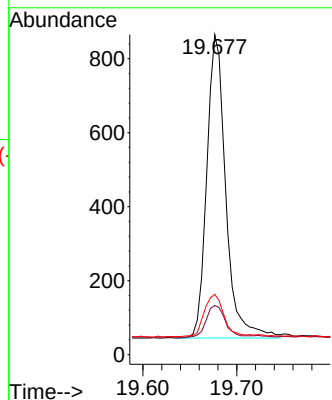
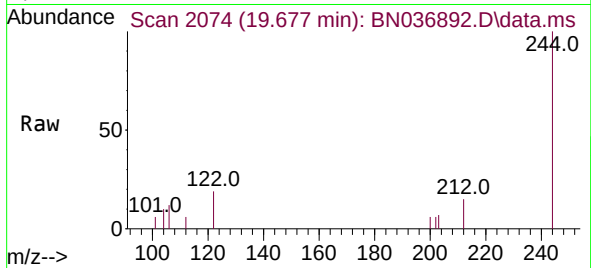




#31
 Terphenyl-d14
 Concen: 0.434 ng
 RT: 19.677 min Scan# 2075
 Delta R.T. -0.005 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

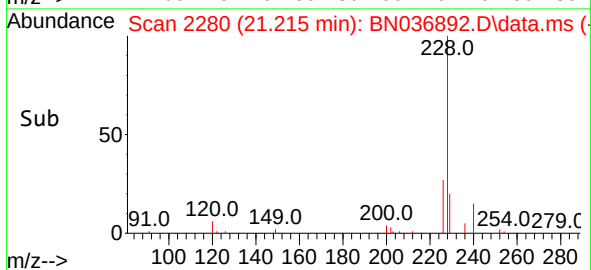
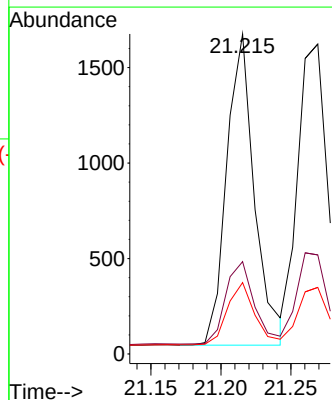
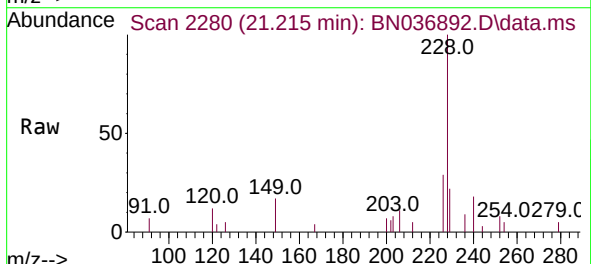
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD

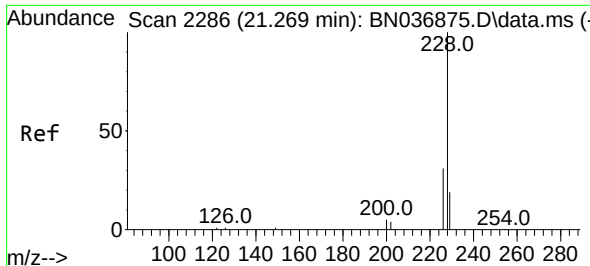
Tgt Ion:244 Resp: 1153
 Ion Ratio Lower Upper
 244 100
 212 15.4 11.6 17.4
 122 18.8 14.9 22.3



#32
 Benzo(a)anthracene
 Concen: 0.456 ng
 RT: 21.215 min Scan# 2280
 Delta R.T. 0.000 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

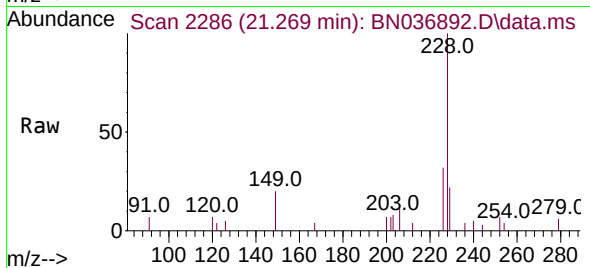
Tgt Ion:228 Resp: 2255
 Ion Ratio Lower Upper
 228 100
 226 28.9 24.5 36.7
 229 22.3 17.7 26.5



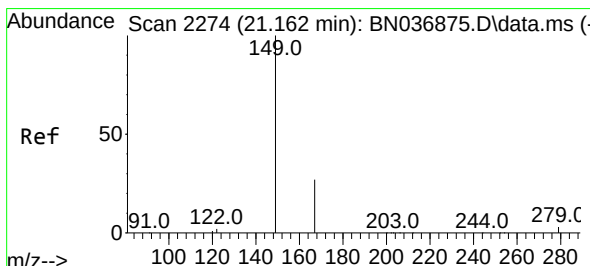
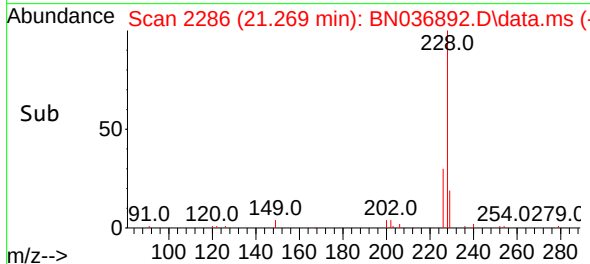
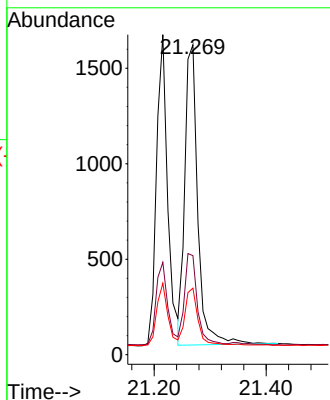


#33
Chrysene
Concen: 0.465 ng
RT: 21.269 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

Instrument :
BNA_N
ClientSampleId :
PB167565BSD

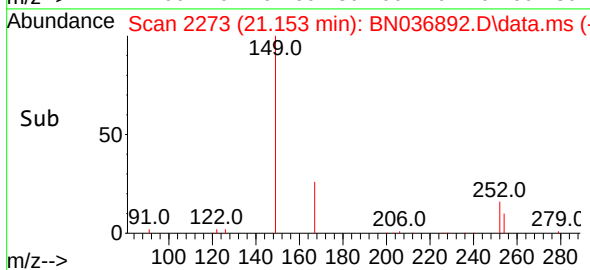
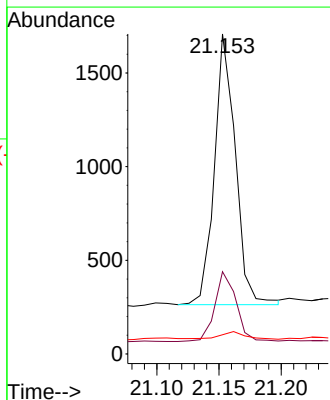
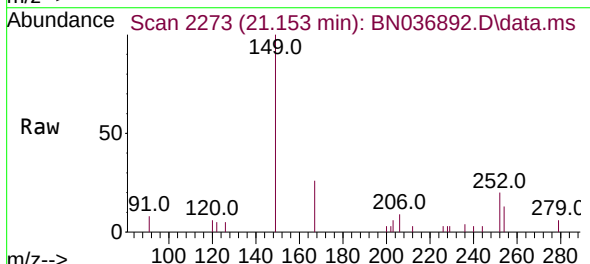


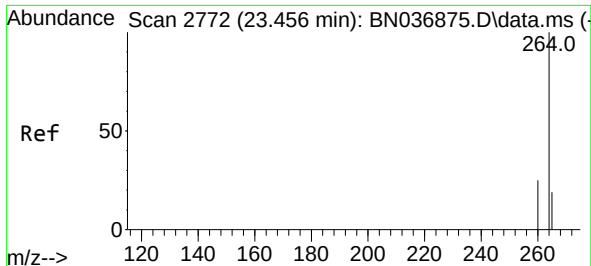
Tgt Ion:228 Resp: 2535
Ion Ratio Lower Upper
228 100
226 32.0 26.1 39.1
229 21.5 17.0 25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.462 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN036892.D
Acq: 11 Apr 2025 23:33

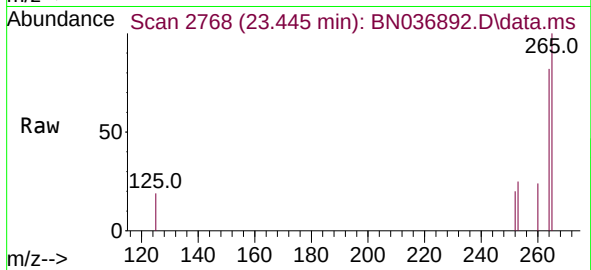
Tgt Ion:149 Resp: 1697
Ion Ratio Lower Upper
149 100
167 26.0 21.0 31.4
279 3.3 3.6 5.4#



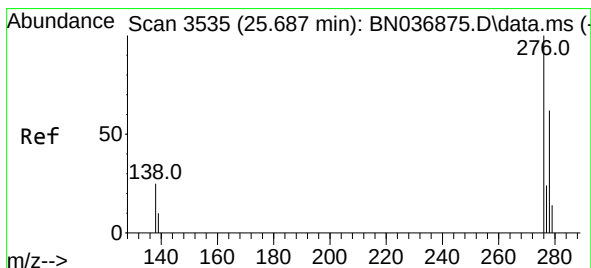
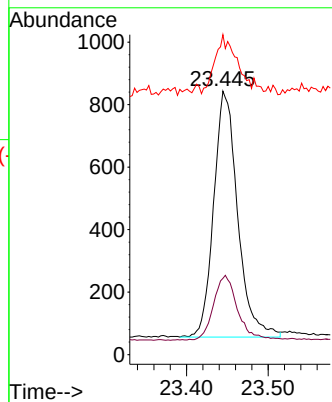
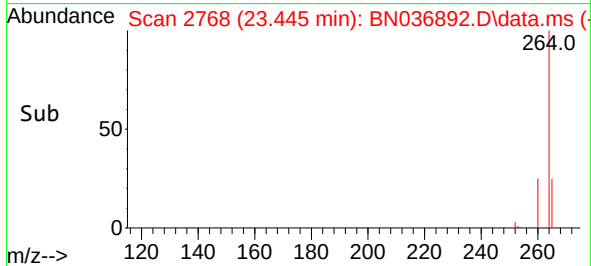


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.445 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

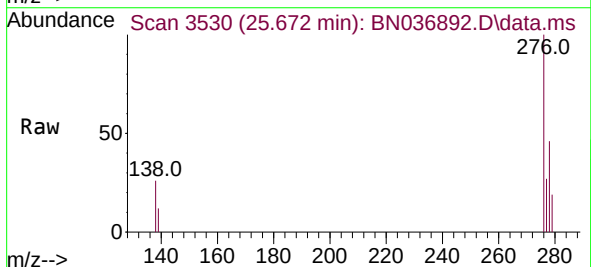
Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD



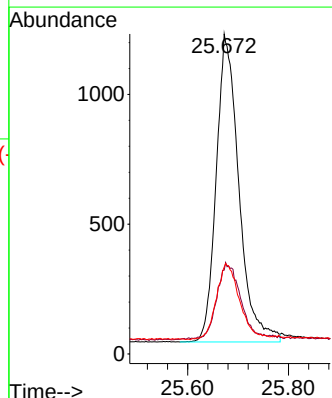
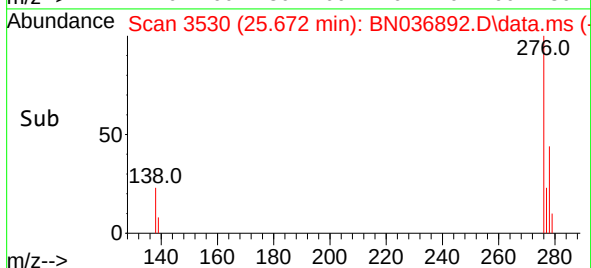
Tgt Ion:264 Resp: 1606
 Ion Ratio Lower Upper
 264 100
 260 28.9 22.9 34.3
 265 121.5 88.6 132.8

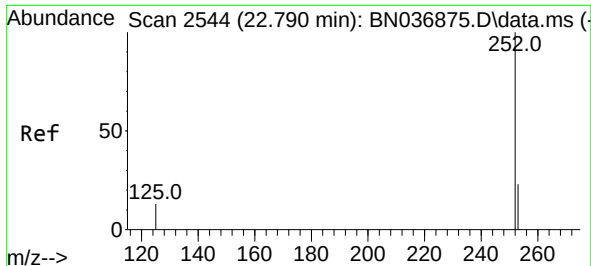


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.483 ng
 RT: 25.672 min Scan# 3530
 Delta R.T. -0.015 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33



Tgt Ion:276 Resp: 3700
 Ion Ratio Lower Upper
 276 100
 138 24.9 21.0 31.6
 277 25.5 19.3 28.9





#37

Benzo(b)fluoranthene

Concen: 0.468 ng

RT: 22.784 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD

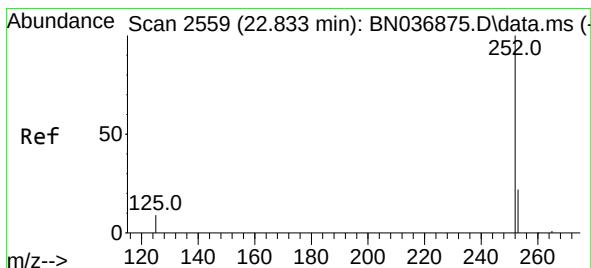
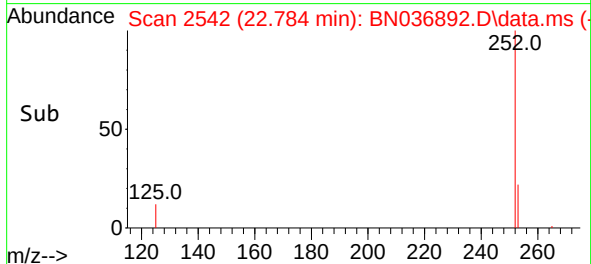
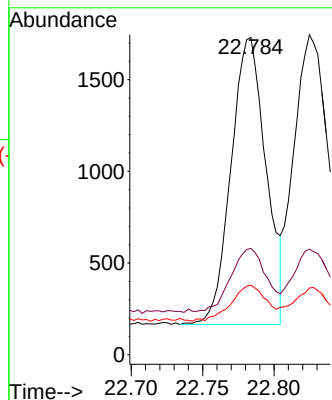
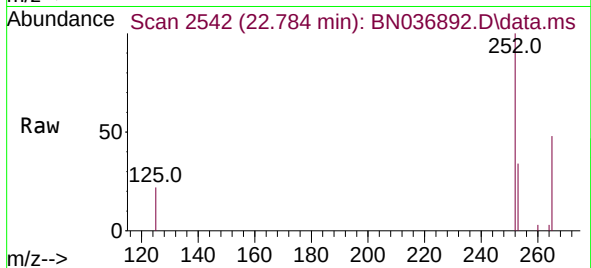
Tgt Ion:252 Resp: 2667

Ion Ratio Lower Upper

252 100

253 33.5 27.0 40.6

125 22.0 17.7 26.5



#38

Benzo(k)fluoranthene

Concen: 0.494 ng

RT: 22.825 min Scan# 2556

Delta R.T. -0.009 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

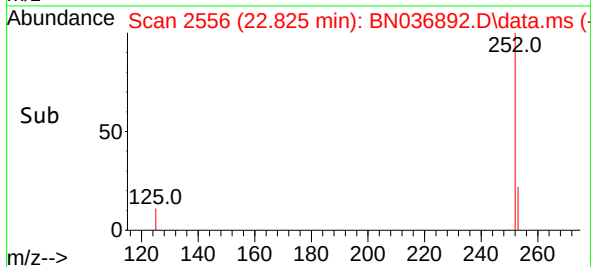
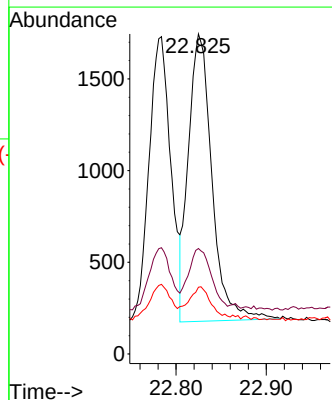
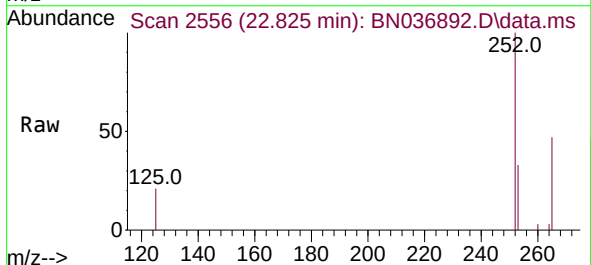
Tgt Ion:252 Resp: 2840

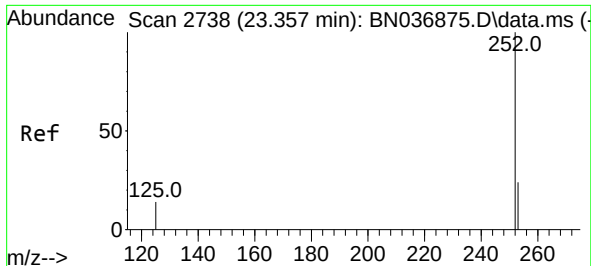
Ion Ratio Lower Upper

252 100

253 33.0 26.7 40.1

125 20.9 16.9 25.3





#39

Benzo(a)pyrene

Concen: 0.507 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

Instrument :

BNA_N

ClientSampleId :

PB167565BSD

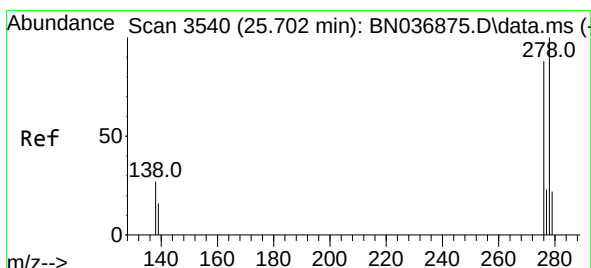
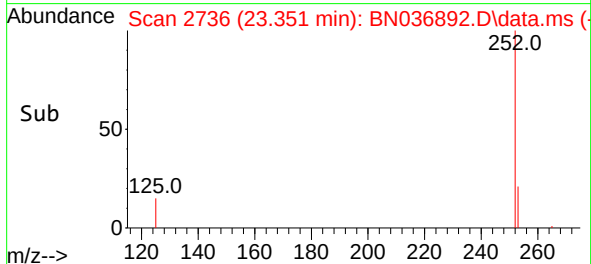
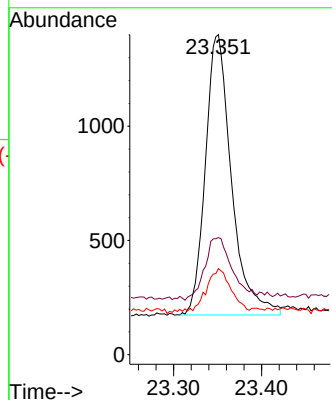
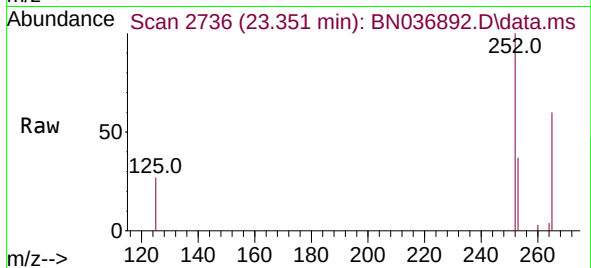
Tgt Ion:252 Resp: 2534

Ion Ratio Lower Upper

252 100

253 36.6 31.5 47.3

125 26.9 22.6 34.0



#40

Dibenzo(a,h)anthracene

Concen: 0.484 ng

RT: 25.693 min Scan# 3537

Delta R.T. -0.009 min

Lab File: BN036892.D

Acq: 11 Apr 2025 23:33

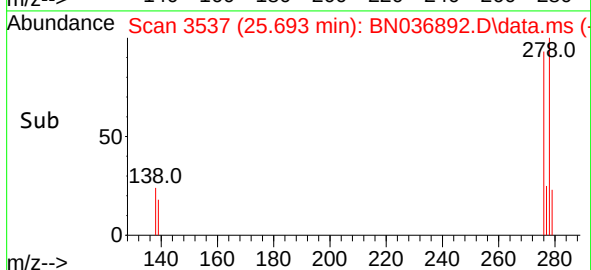
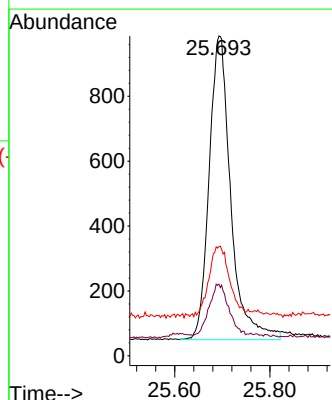
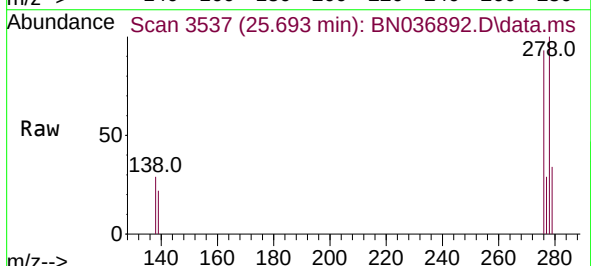
Tgt Ion:278 Resp: 2949

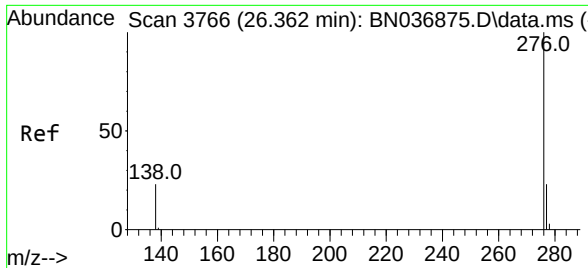
Ion Ratio Lower Upper

278 100

139 22.4 17.6 26.4

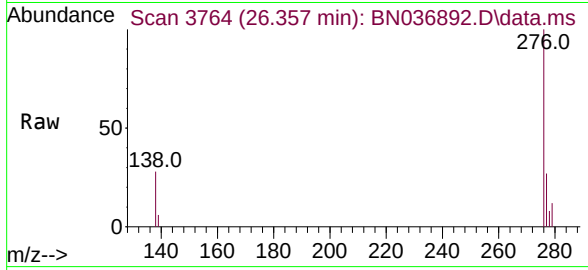
279 34.2 26.7 40.1



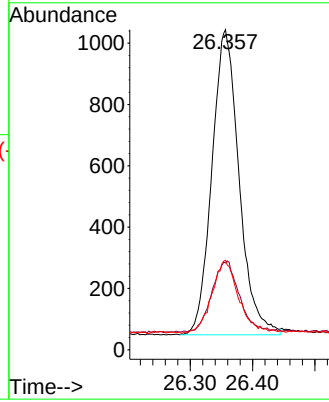
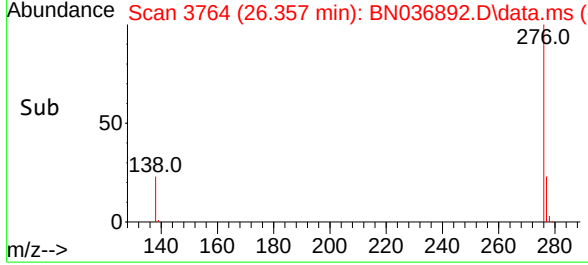


#41
 Benzo(g,h,i)perylene
 Concen: 0.437 ng
 RT: 26.357 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: BN036892.D
 Acq: 11 Apr 2025 23:33

Instrument :
 BNA_N
 ClientSampleId :
 PB167565BSD



Tgt Ion:	276	Resp:	3007
Ion	Ratio	Lower	Upper
276	100		
277	27.1	21.8	32.8
138	28.0	21.6	32.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
 Data File : BN036895.D
 Acq On : 12 Apr 2025 01:21
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Apr 12 01:46:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 11 16:11:08 2025
 Response via : Initial Calibration

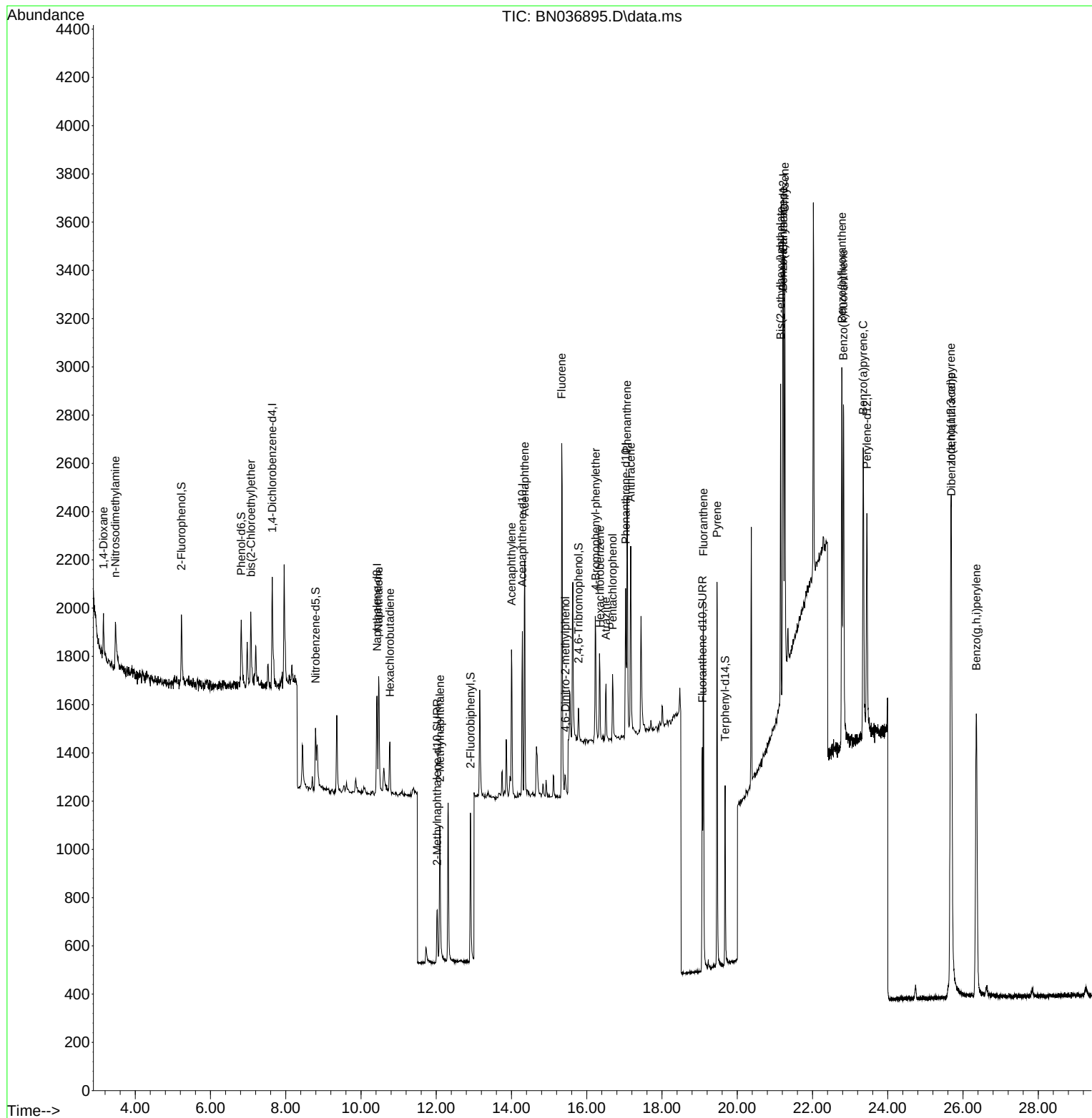
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.640	152	234	0.400	ng	0.00
7) Naphthalene-d8	10.426	136	605	0.400	ng	# 0.00
13) Acenaphthene-d10	14.288	164	387	0.400	ng	0.00
19) Phenanthrene-d10	17.033	188	863	0.400	ng	0.00
29) Chrysene-d12	21.224	240	999	0.400	ng	# 0.00
35) Perylene-d12	23.445	264	1276	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.228	112	236	0.429	ng	0.00
5) Phenol-d6	6.817	99	276	0.392	ng	0.00
8) Nitrobenzene-d5	8.792	82	250	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	12.026	152	384	0.437	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	82	0.439	ng	0.00
15) 2-Fluorobiphenyl	12.909	172	757	0.407	ng	0.00
27) Fluoranthene-d10	19.073	212	1065	0.438	ng	0.00
31) Terphenyl-d14	19.677	244	764	0.403	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.155	88	148	0.546	ng	# 83
3) n-Nitrosodimethylamine	3.473	42	276	0.459	ng	# 98
6) bis(2-Chloroethyl)ether	7.077	93	251	0.363	ng	98
9) Naphthalene	10.468	128	748	0.430	ng	# 87
10) Hexachlorobutadiene	10.767	225	166	0.420	ng	# 92
12) 2-Methylnaphthalene	12.097	142	461	0.411	ng	96
16) Acenaphthylene	13.999	152	730	0.406	ng	98
17) Acenaphthene	14.352	154	496	0.424	ng	94
18) Fluorene	15.336	166	683	0.423	ng	97
20) 4,6-Dinitro-2-methylph...	15.432	198	79	0.386	ng	# 90
21) 4-Bromophenyl-phenylether	16.239	248	226	0.437	ng	97
22) Hexachlorobenzene	16.351	284	259	0.423	ng	92
23) Atrazine	16.512	200	244	0.483	ng	94
24) Pentachlorophenol	16.686	266	153	0.477	ng	93
25) Phenanthrene	17.071	178	1108	0.428	ng	98
26) Anthracene	17.170	178	976	0.423	ng	97
28) Fluoranthene	19.101	202	1404	0.431	ng	99
30) Pyrene	19.463	202	1497	0.397	ng	99
32) Benzo(a)anthracene	21.215	228	1472	0.417	ng	98
33) Chrysene	21.260	228	1649	0.424	ng	98
34) Bis(2-ethylhexyl)phtha...	21.153	149	1188	0.454	ng	100
36) Indeno(1,2,3-cd)pyrene	25.678	276	2743	0.450	ng	97
37) Benzo(b)fluoranthene	22.781	252	1886	0.417	ng	96
38) Benzo(k)fluoranthene	22.822	252	1982	0.434	ng	94
39) Benzo(a)pyrene	23.345	252	1796	0.453	ng	95
40) Dibenzo(a,h)anthracene	25.693	278	2134	0.441	ng	96
41) Benzo(g,h,i)perylene	26.357	276	2511	0.459	ng	99

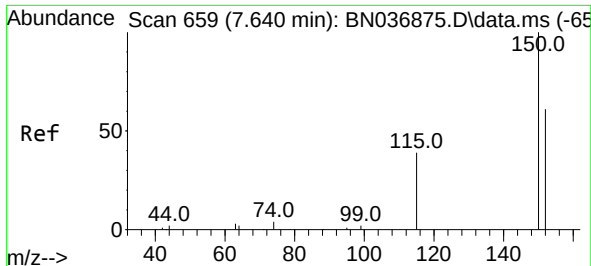
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041125\
Data File : BN036895.D
Acq On : 12 Apr 2025 01:21
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Apr 12 01:46:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 16:11:08 2025
Response via : Initial Calibration

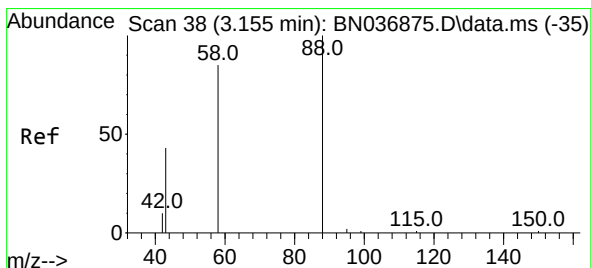
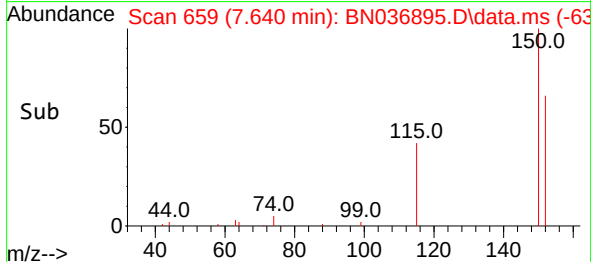
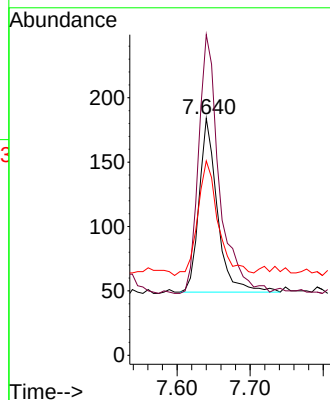
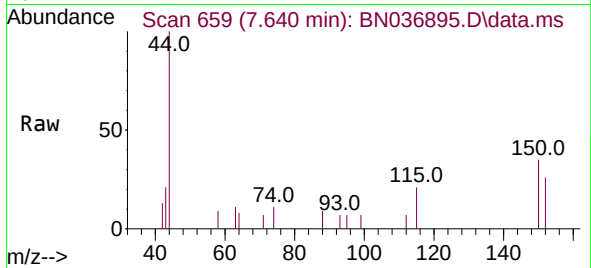




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.640 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN036895.D
 Acq: 12 Apr 2025 01:21

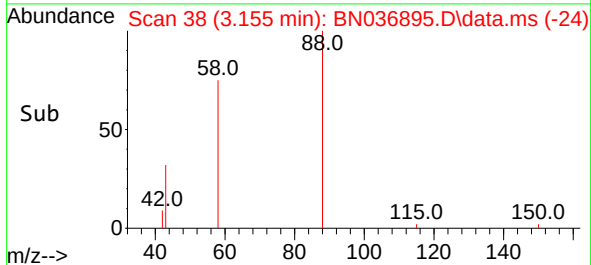
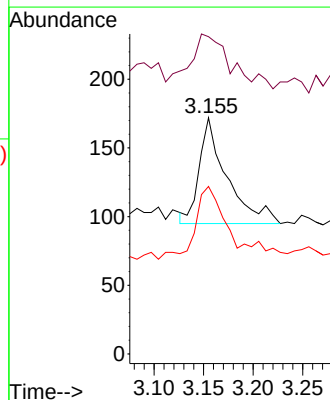
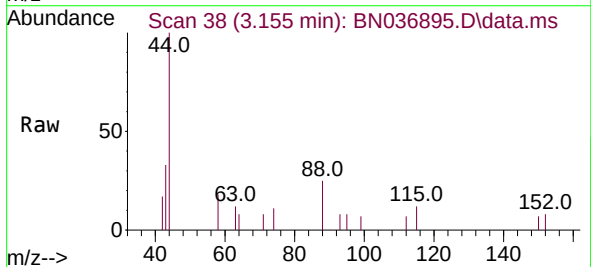
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

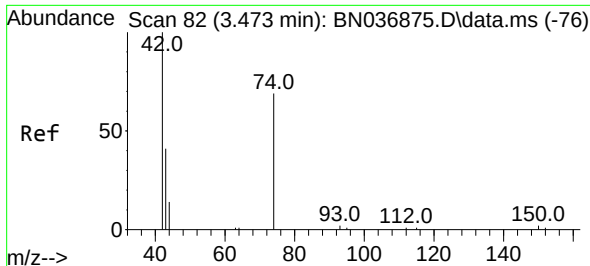
Tgt Ion:152 Resp: 234
 Ion Ratio Lower Upper
 152 100
 150 135.3 123.0 184.6
 115 82.1 60.1 90.1



#2
 1,4-Dioxane
 Concen: 0.546 ng
 RT: 3.155 min Scan# 38
 Delta R.T. -0.000 min
 Lab File: BN036895.D
 Acq: 12 Apr 2025 01:21

Tgt Ion: 88 Resp: 148
 Ion Ratio Lower Upper
 88 100
 43 75.0 39.2 58.8#
 58 76.4 63.5 95.3

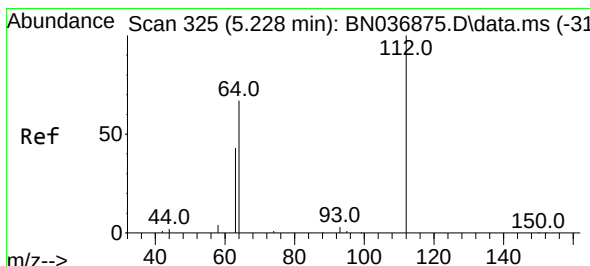
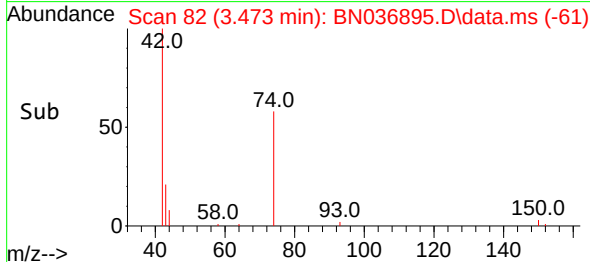
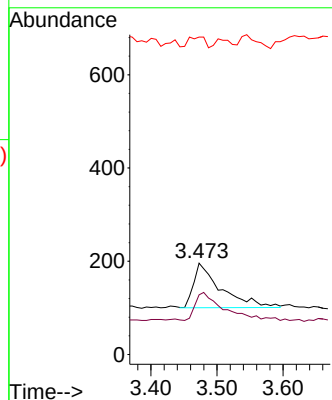
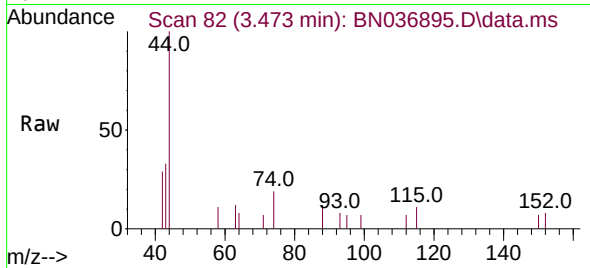




#3
 n-Nitrosodimethylamine
 Concen: 0.459 ng
 RT: 3.473 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: BN036895.D
 Acq: 12 Apr 2025 01:21

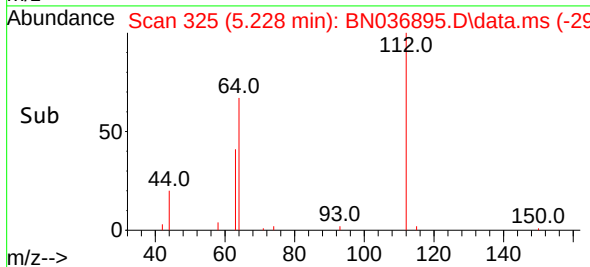
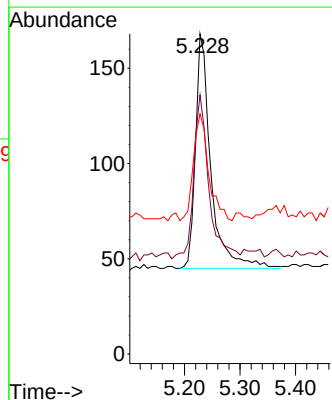
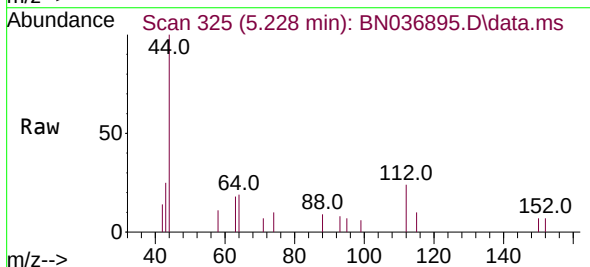
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

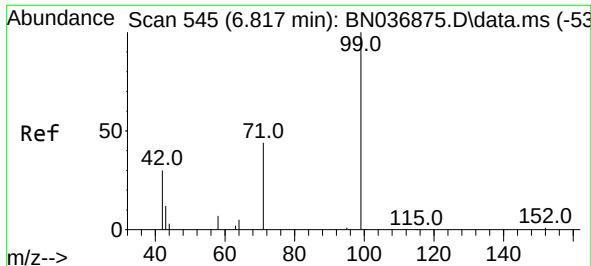
Tgt Ion: 42 Resp: 276
 Ion Ratio Lower Upper
 42 100
 74 66.7 54.6 81.8
 44 0.0 0.0 0.0



#4
 2-Fluorophenol
 Concen: 0.429 ng
 RT: 5.228 min Scan# 325
 Delta R.T. 0.000 min
 Lab File: BN036895.D
 Acq: 12 Apr 2025 01:21

Tgt Ion: 112 Resp: 236
 Ion Ratio Lower Upper
 112 100
 64 68.6 54.0 81.0
 63 44.9 35.1 52.7

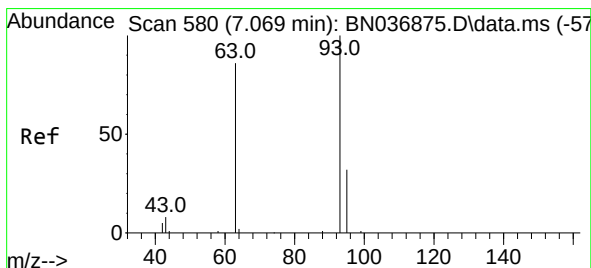
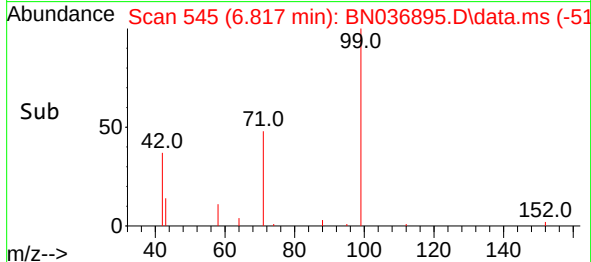
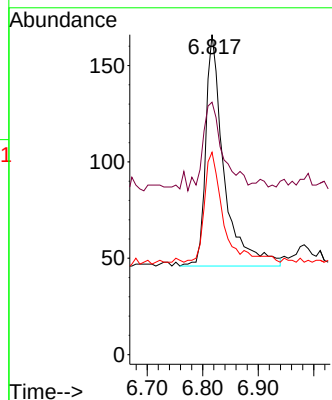
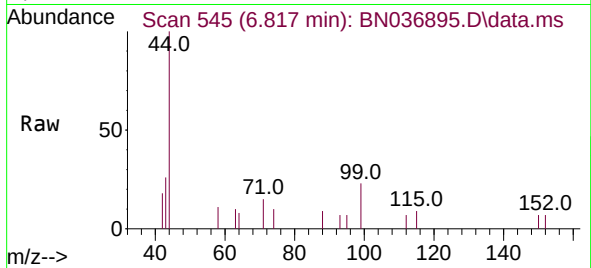




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.817 min Scan# 545
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

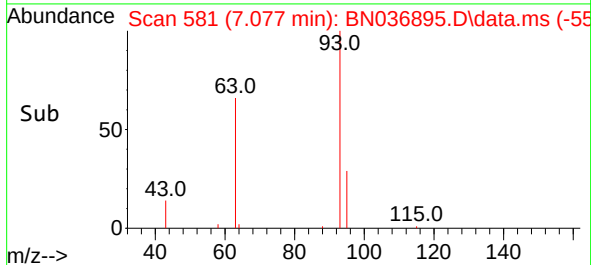
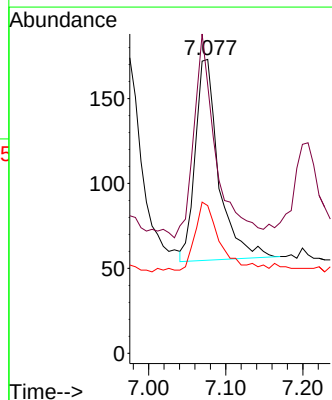
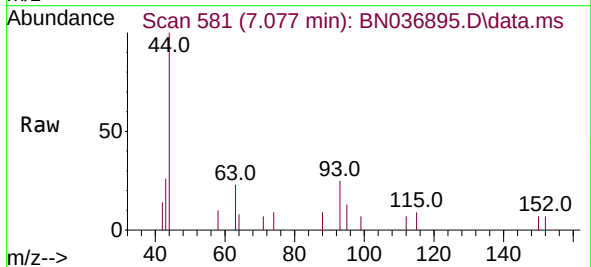
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

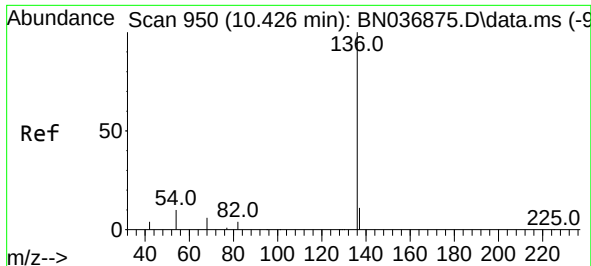
Tgt Ion: 99 Resp: 276
Ion Ratio Lower Upper
99 100
42 43.5 30.9 46.3
71 46.4 38.6 58.0



#6
bis(2-Chloroethyl)ether
Concen: 0.363 ng
RT: 7.077 min Scan# 581
Delta R.T. 0.007 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion: 93 Resp: 251
Ion Ratio Lower Upper
93 100
63 94.4 76.4 114.6
95 35.5 26.1 39.1

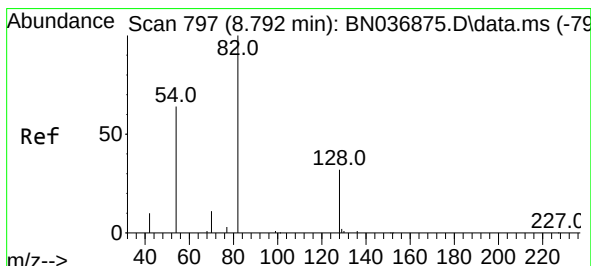
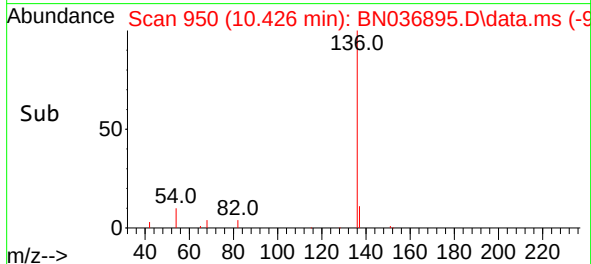
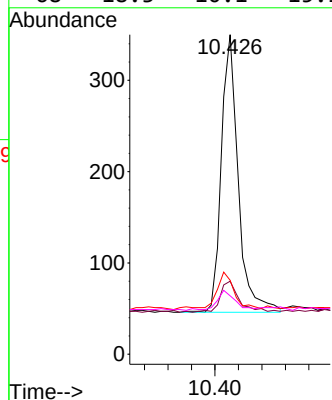
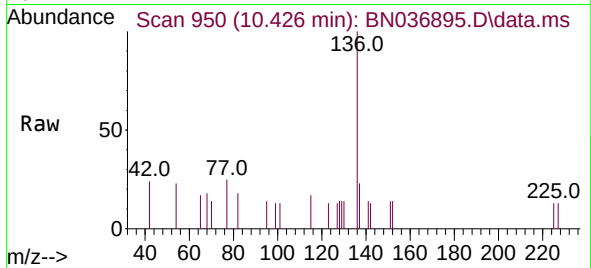




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.426 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

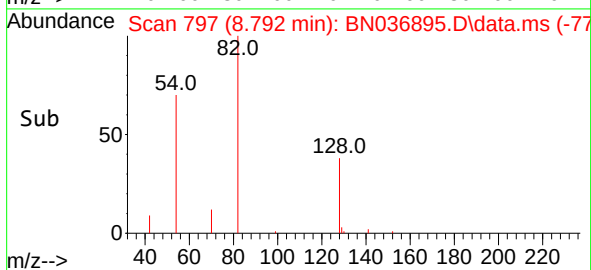
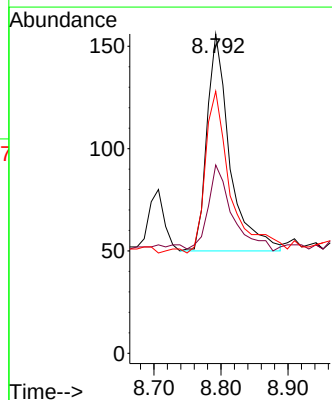
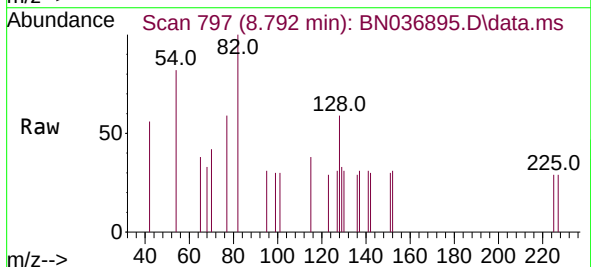
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

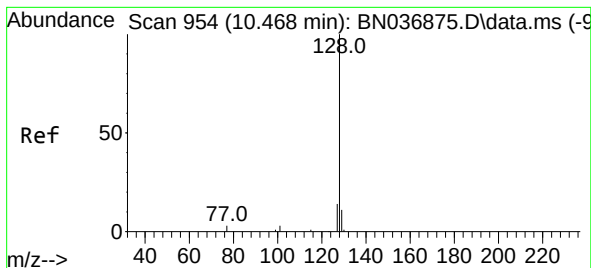
Tgt Ion:	136	Resp:	605
Ion	Ratio	Lower	Upper
136	100		
137	22.9	13.5	20.3#
54	23.1	12.8	19.2#
68	18.3	10.1	15.1#



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.792 min Scan# 797
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:	82	Resp:	250
Ion	Ratio	Lower	Upper
82	100		
128	59.0	35.5	53.3#
54	82.1	56.2	84.4





#9

Naphthalene

Concen: 0.430 ng

RT: 10.468 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN036895.D

Acq: 12 Apr 2025 01:21

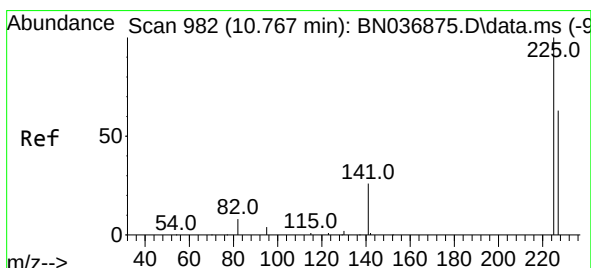
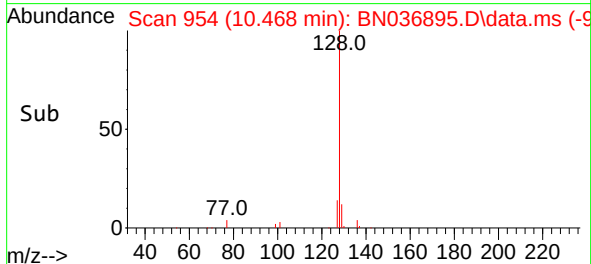
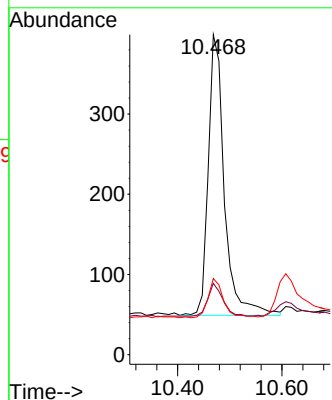
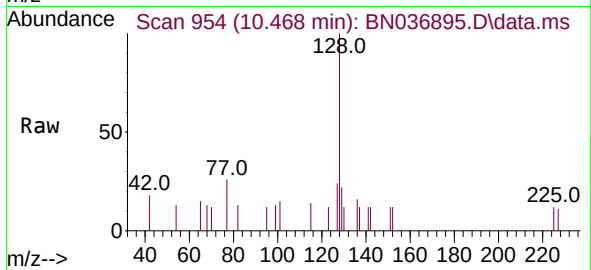
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:	128	Resp:	748
Ion	Ratio	Lower	Upper
128	100		
129	22.3	12.9	19.3#
127	23.8	15.0	22.6#



#10

Hexachlorobutadiene

Concen: 0.420 ng

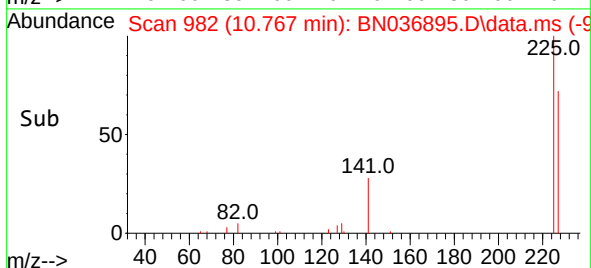
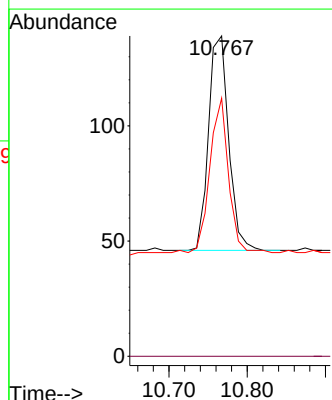
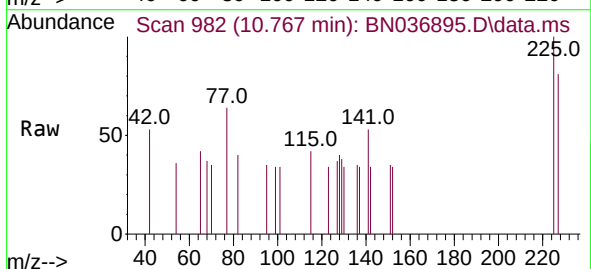
RT: 10.767 min Scan# 982

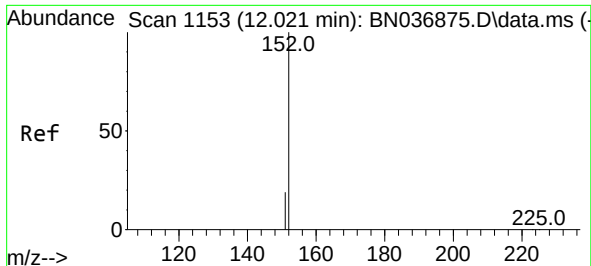
Delta R.T. 0.000 min

Lab File: BN036895.D

Acq: 12 Apr 2025 01:21

Tgt Ion:	225	Resp:	166
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	69.3	50.5	75.7

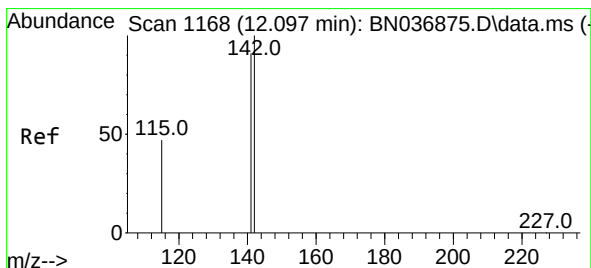
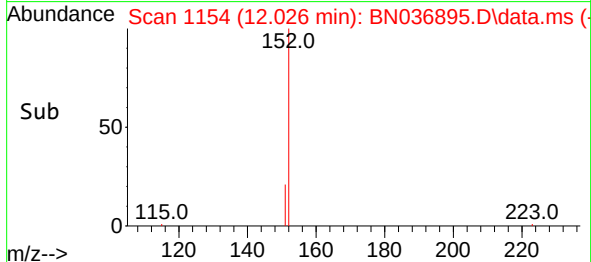
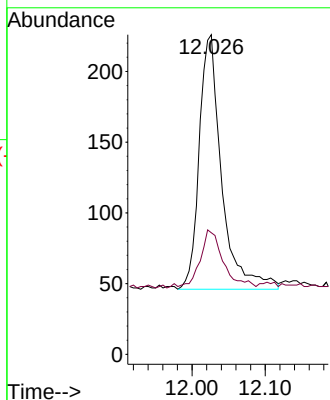
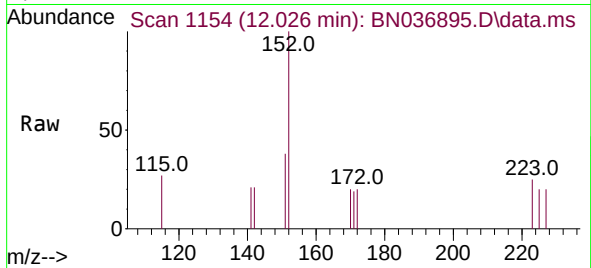




#11
2-Methylnaphthalene-d10
Concen: 0.437 ng
RT: 12.026 min Scan# 1153
Delta R.T. 0.005 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

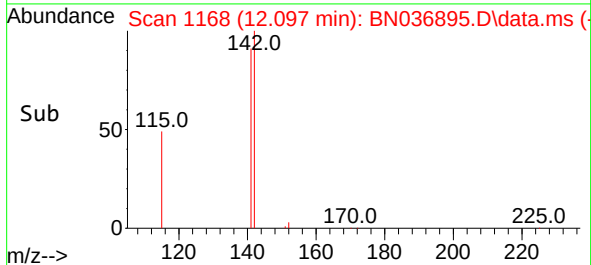
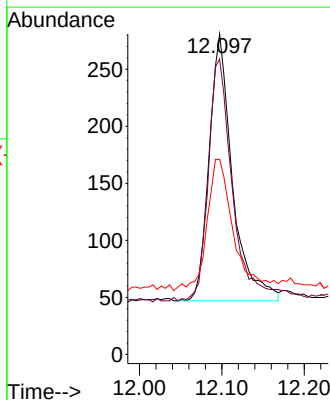
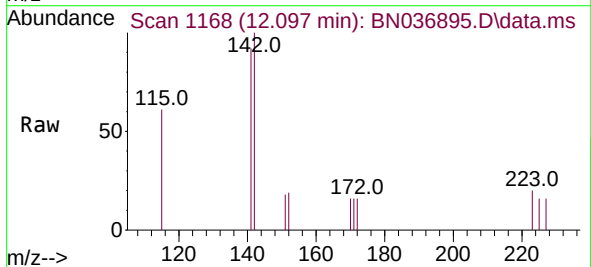
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

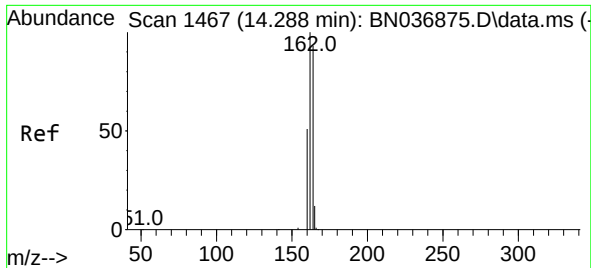
Tgt Ion:152 Resp: 384
Ion Ratio Lower Upper
152 100
151 22.4 17.8 26.8



#12
2-Methylnaphthalene
Concen: 0.411 ng
RT: 12.097 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

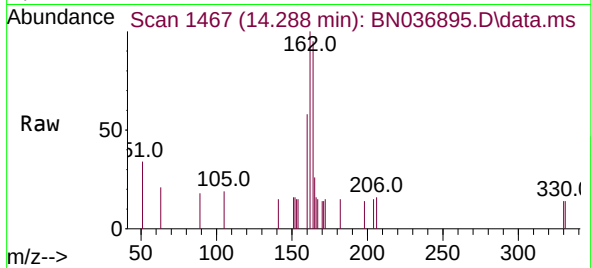
Tgt Ion:142 Resp: 461
Ion Ratio Lower Upper
142 100
141 92.2 73.8 110.8
115 60.9 43.3 64.9



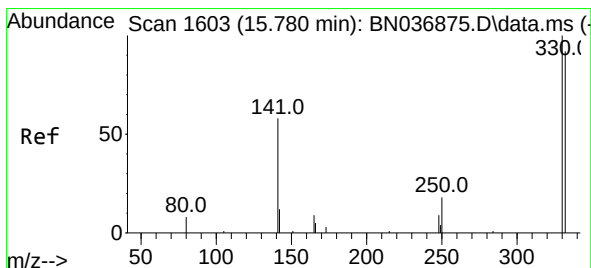
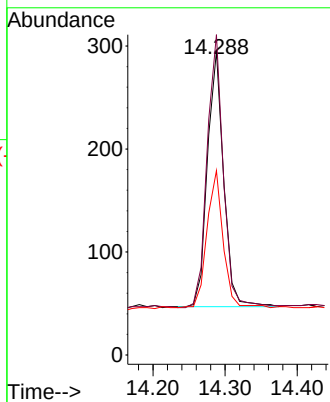
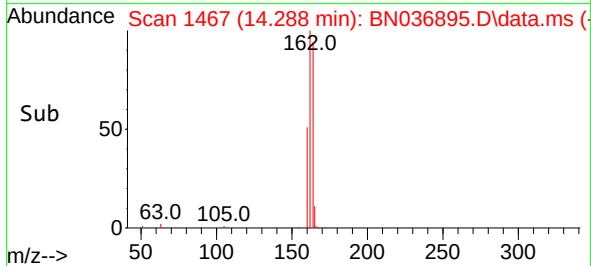


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

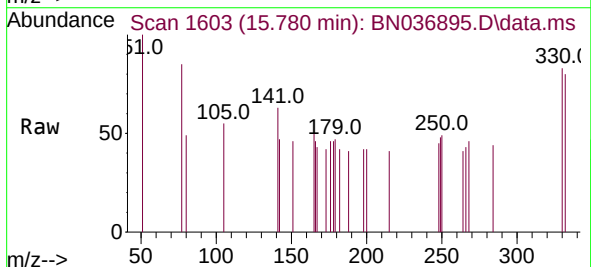
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



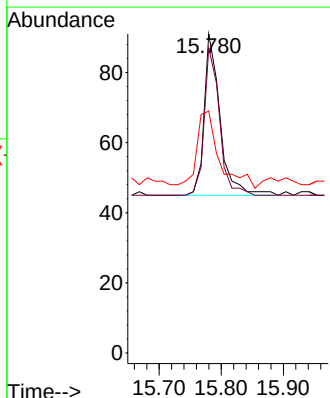
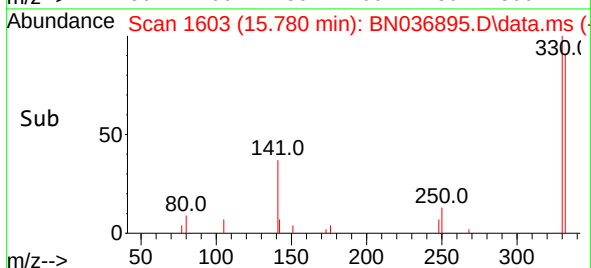
Tgt Ion:164 Resp: 387
Ion Ratio Lower Upper
164 100
162 105.4 85.7 128.5
160 60.7 46.9 70.3

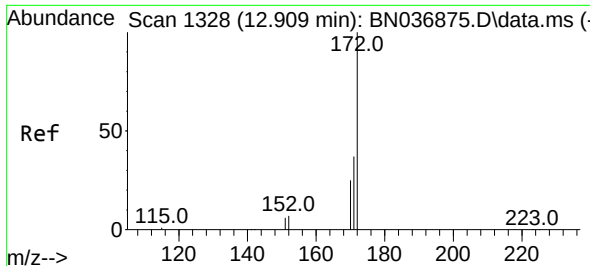


#14
2,4,6-Tribromophenol
Concen: 0.439 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21



Tgt Ion:330 Resp: 82
Ion Ratio Lower Upper
330 100
332 86.6 87.0 130.6#
141 67.1 45.3 67.9

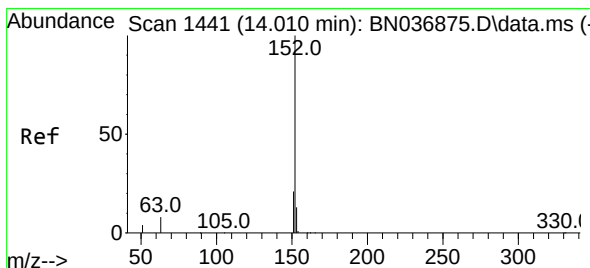
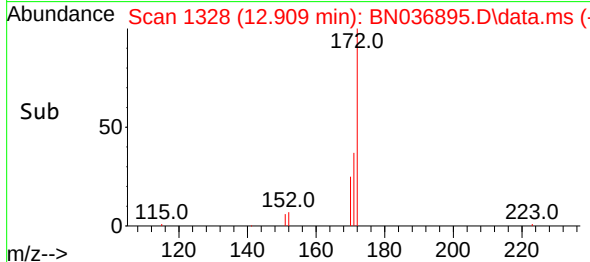
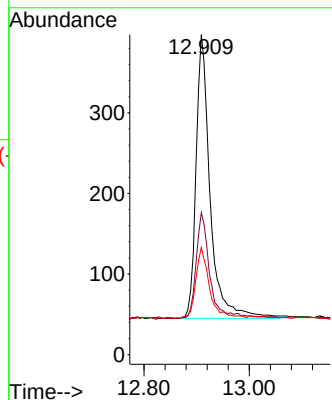
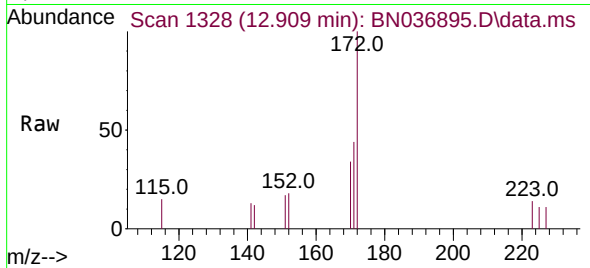




#15
2-Fluorobiphenyl
Concen: 0.407 ng
RT: 12.909 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

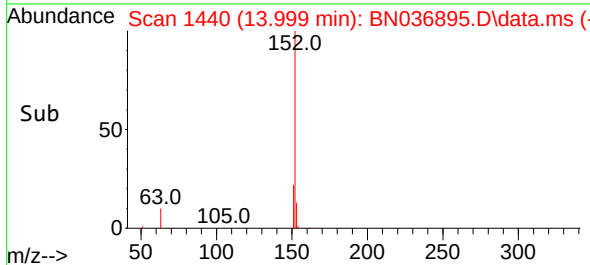
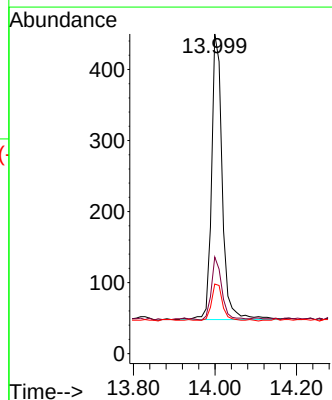
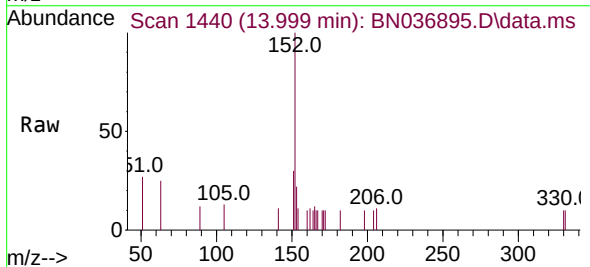
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

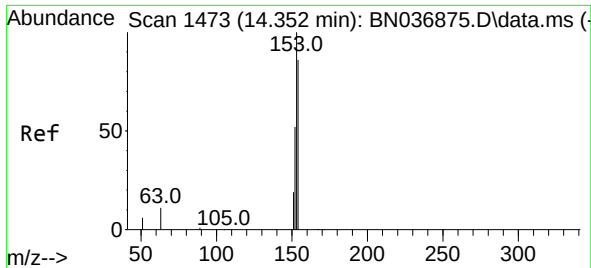
Tgt Ion:172	Resp:	757	
Ion	Ratio	Lower	Upper
172	100		
171	44.3	32.7	49.1
170	33.5	23.3	34.9



#16
Acenaphthylene
Concen: 0.406 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.011 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:152	Resp:	730	
Ion	Ratio	Lower	Upper
152	100		
151	21.9	16.4	24.6
153	13.2	10.3	15.5

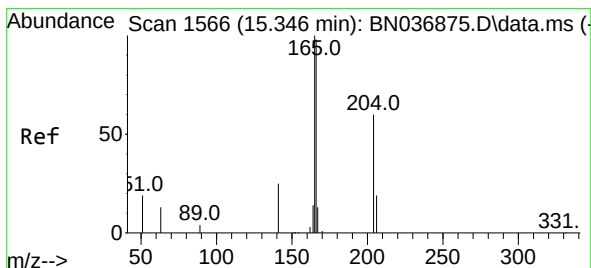
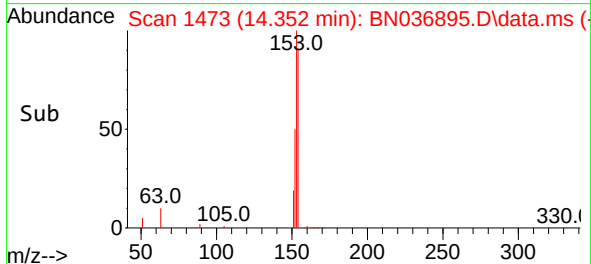
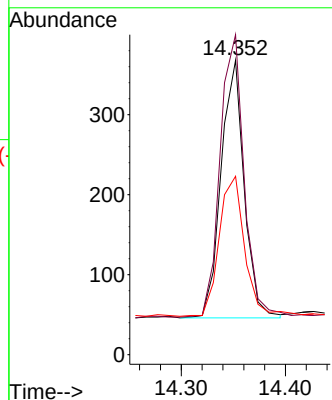
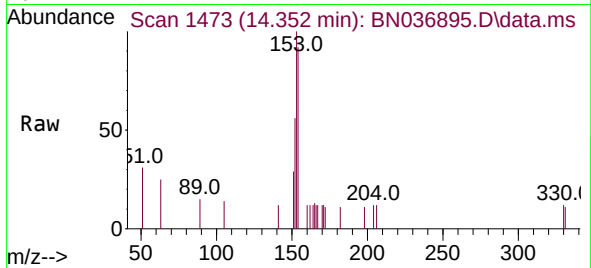




#17
Acenaphthene
Concen: 0.424 ng
RT: 14.352 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

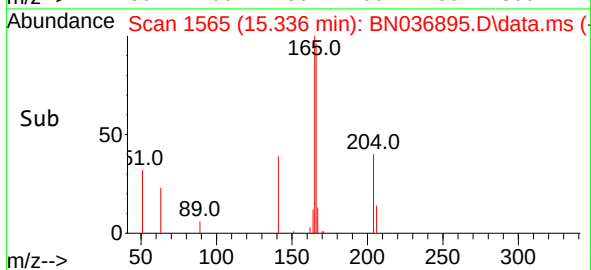
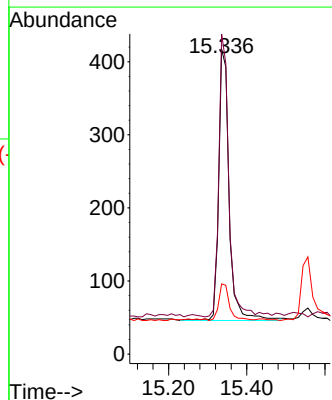
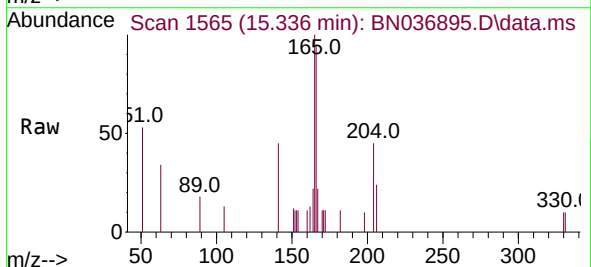
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

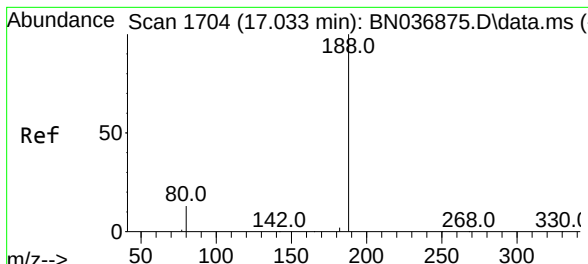
Tgt Ion:154 Resp: 496
Ion Ratio Lower Upper
154 100
153 115.5 97.8 146.6
152 61.1 52.7 79.1



#18
Fluorene
Concen: 0.423 ng
RT: 15.336 min Scan# 1565
Delta R.T. -0.011 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:166 Resp: 683
Ion Ratio Lower Upper
166 100
165 100.1 83.2 124.8
167 13.8 11.1 16.7

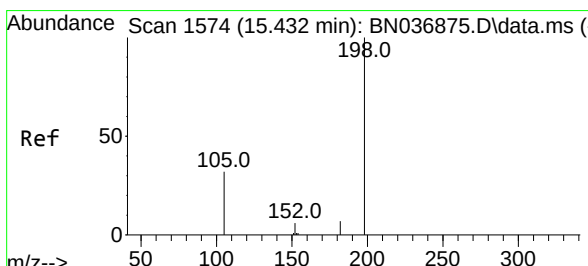
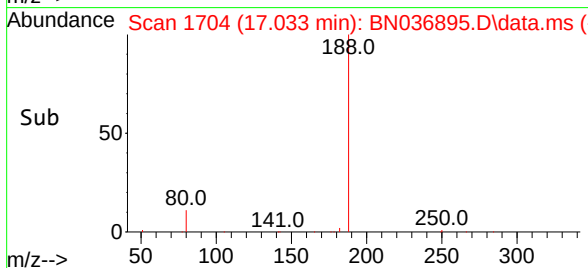
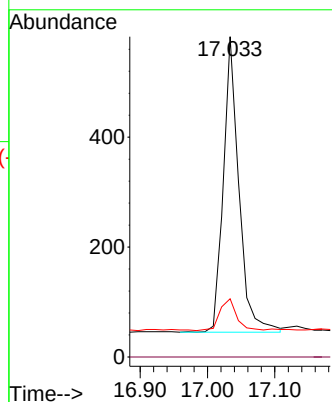
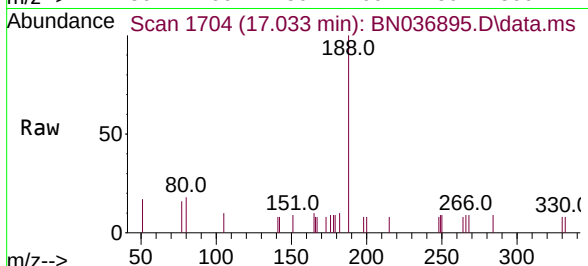




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

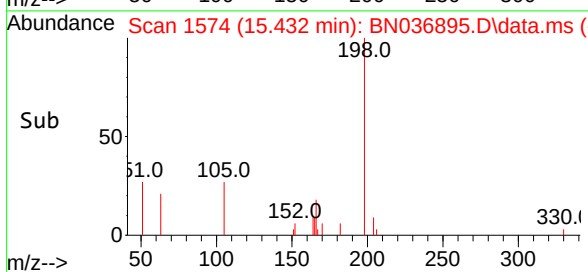
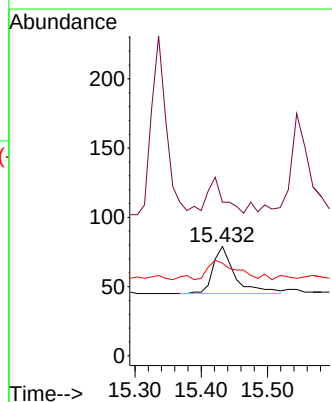
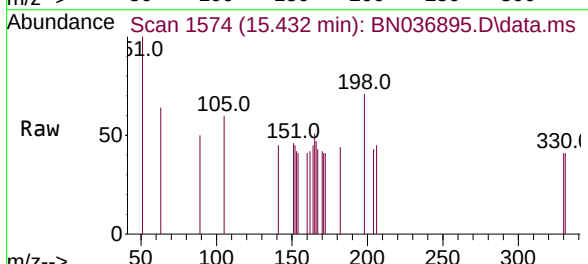
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

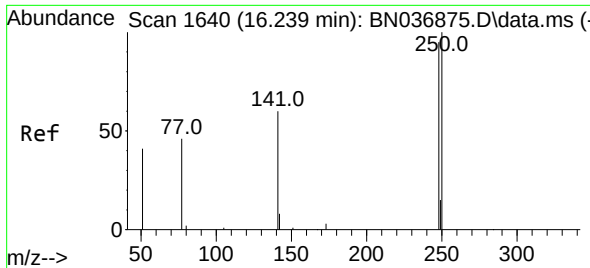
Tgt Ion:188 Resp: 863
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 18.2 13.9 20.9



#20
4,6-Dinitro-2-methylphenol
Concen: 0.386 ng
RT: 15.432 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

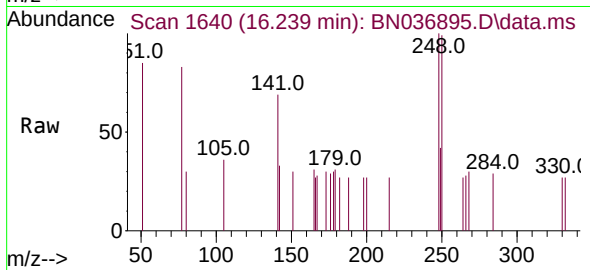
Tgt Ion:198 Resp: 79
Ion Ratio Lower Upper
198 100
51 140.5 107.6 161.4
105 84.8 55.2 82.8#



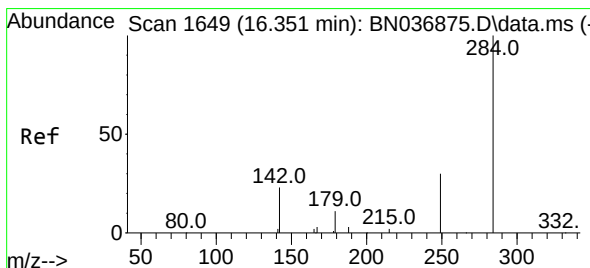
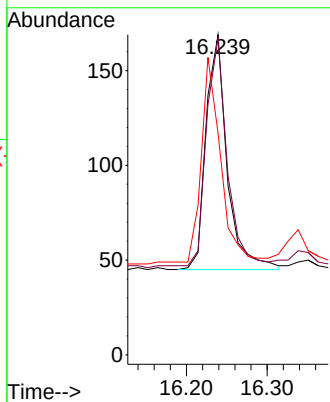
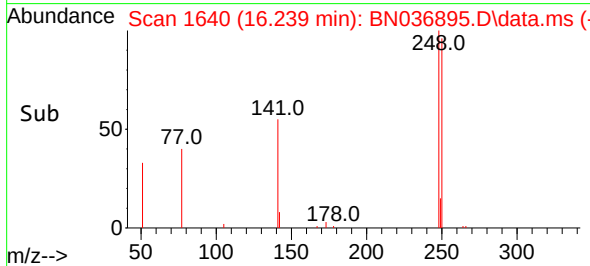


#21
4-Bromophenyl-phenylether
Concen: 0.437 ng
RT: 16.239 min Scan# 1640
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

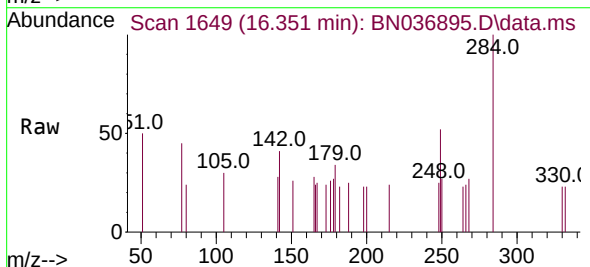
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



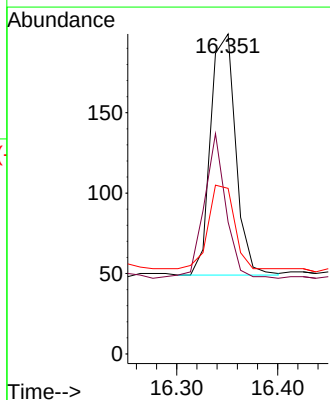
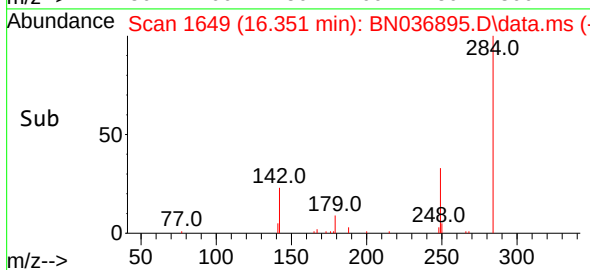
Tgt Ion:	248	Resp:	226
Ion Ratio	Lower	Upper	
248	100		
250	98.8	83.5	125.3
141	69.2	55.3	82.9

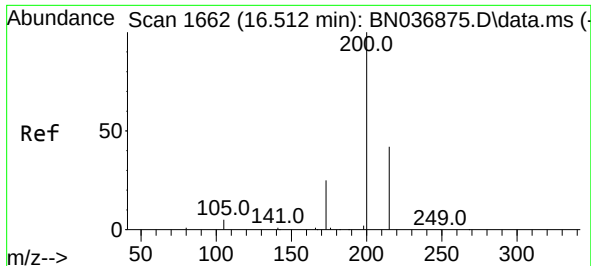


#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.351 min Scan# 1649
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21



Tgt Ion:	284	Resp:	259
Ion Ratio	Lower	Upper	
284	100		
142	52.1	37.7	56.5
249	41.3	29.0	43.6

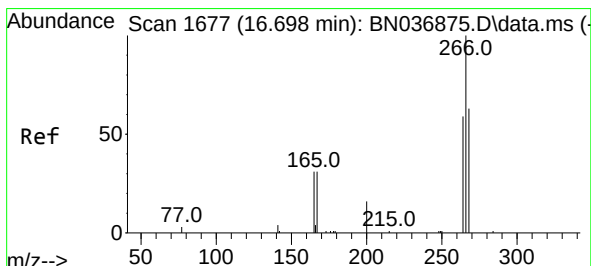
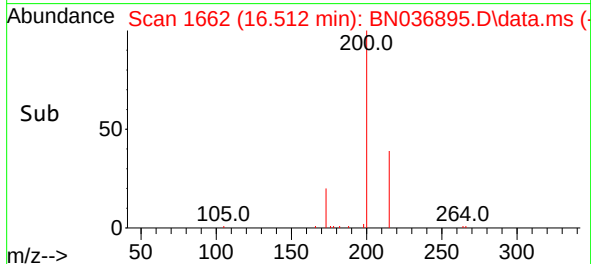
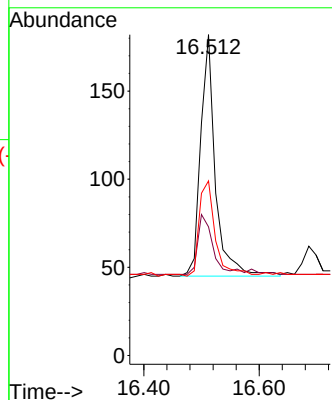
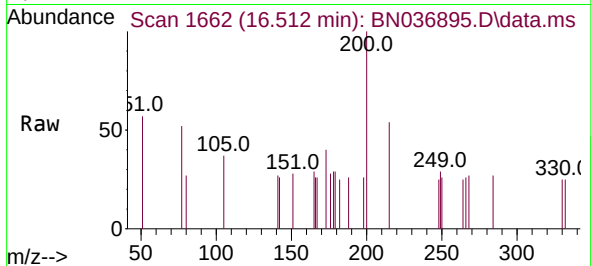




#23
Atrazine
Concen: 0.483 ng
RT: 16.512 min Scan# 1662
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

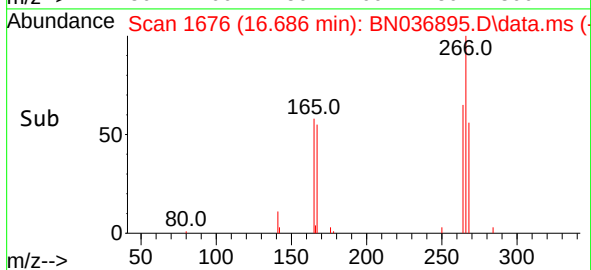
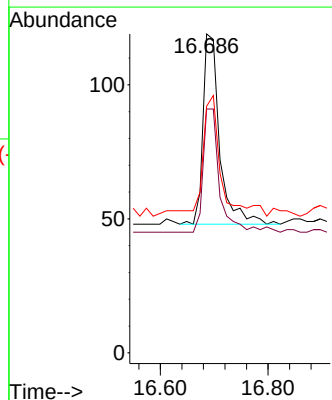
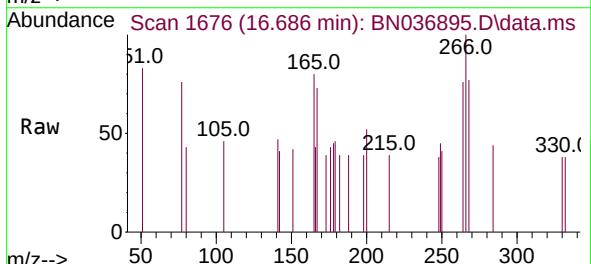
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

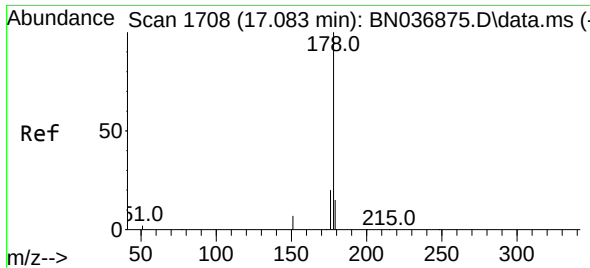
Tgt Ion:200 Resp: 244
Ion Ratio Lower Upper
200 100
173 40.1 28.6 43.0
215 54.4 40.5 60.7



#24
Pentachlorophenol
Concen: 0.477 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:266 Resp: 153
Ion Ratio Lower Upper
266 100
264 64.1 44.6 66.8
268 66.7 51.8 77.6

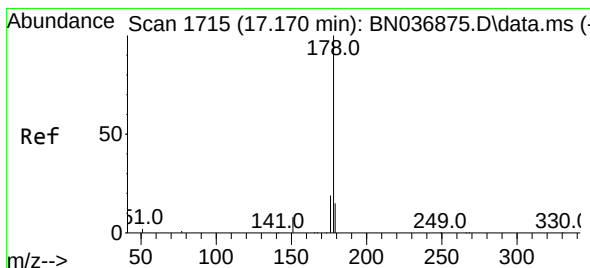
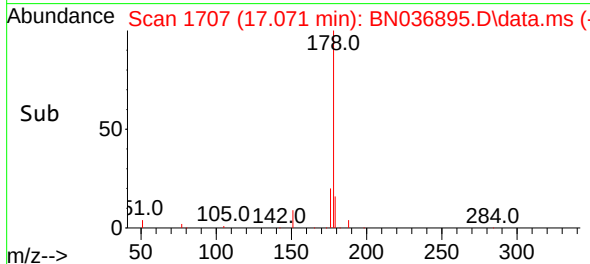
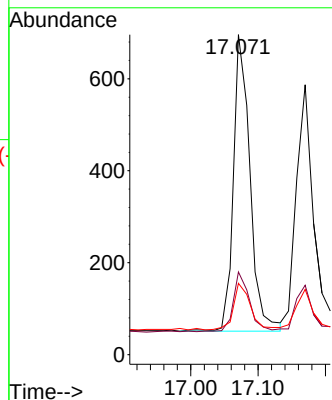
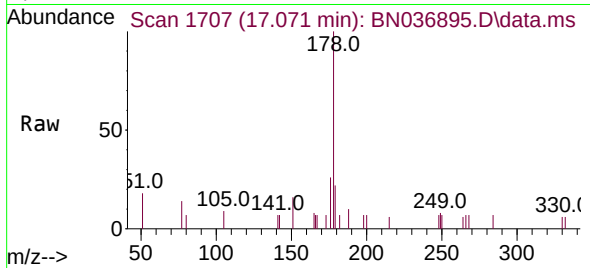




#25
Phenanthrene
Concen: 0.428 ng
RT: 17.071 min Scan# 1707
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

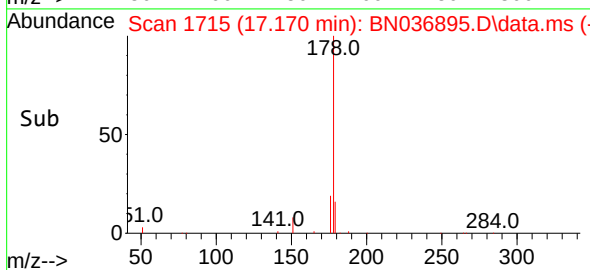
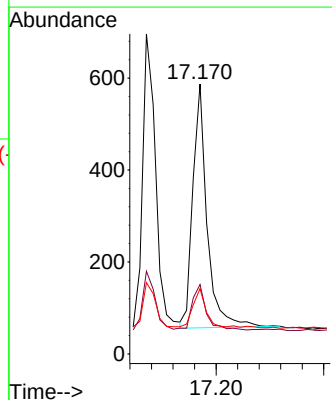
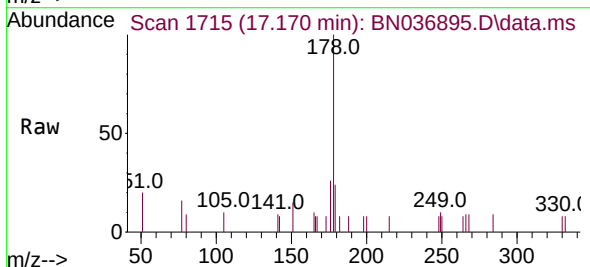
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

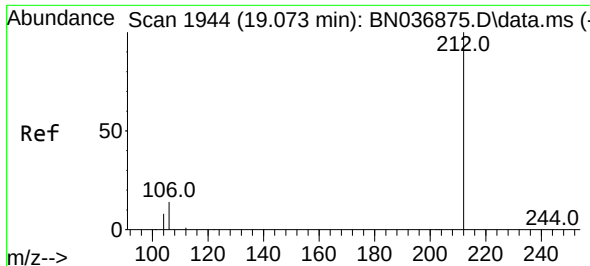
Tgt Ion:178 Resp: 1108
Ion Ratio Lower Upper
178 100
176 19.5 16.6 25.0
179 15.8 12.8 19.2



#26
Anthracene
Concen: 0.423 ng
RT: 17.170 min Scan# 1715
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:178 Resp: 976
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.6
179 13.9 12.6 18.8

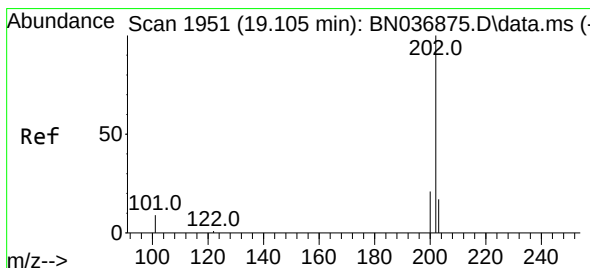
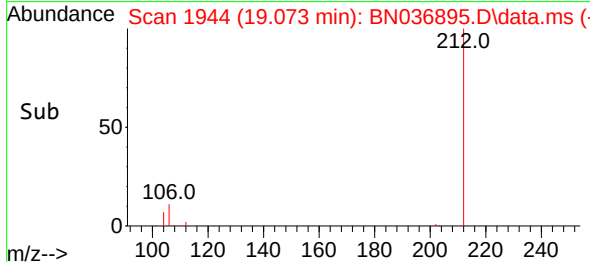
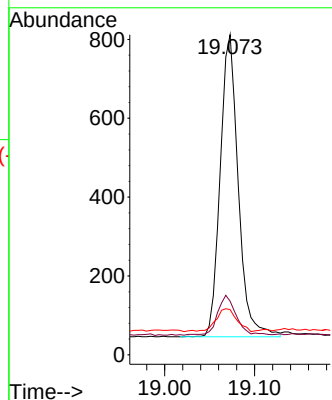
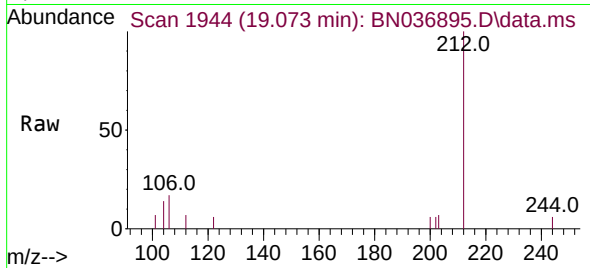




#27
Fluoranthene-d10
Concen: 0.438 ng
RT: 19.073 min Scan# 1944
Delta R.T. 0.000 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

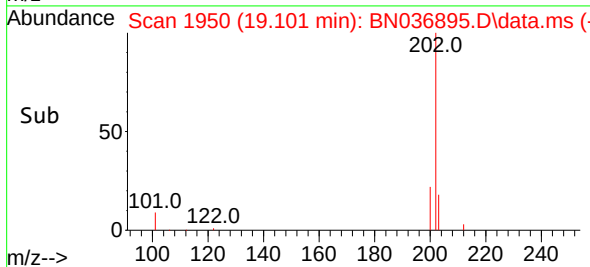
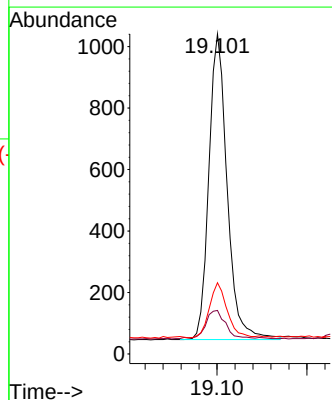
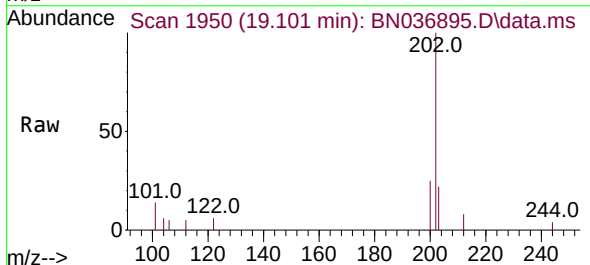
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

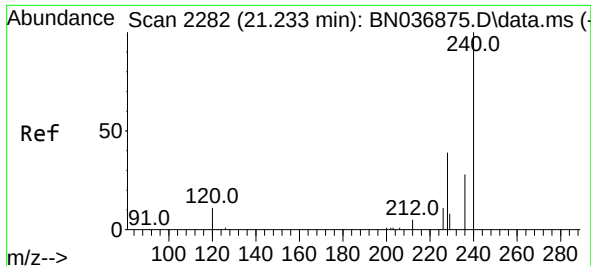
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.5	11.2	16.8
104	8.3	7.5	11.3



#28
Fluoranthene
Concen: 0.431 ng
RT: 19.101 min Scan# 1950
Delta R.T. -0.005 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

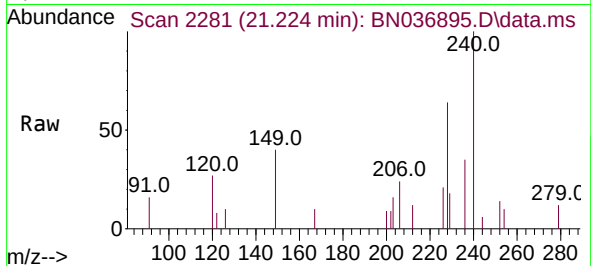
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.4	8.5	12.7
203	17.5	13.8	20.6



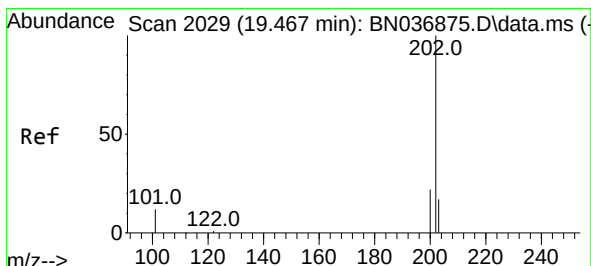
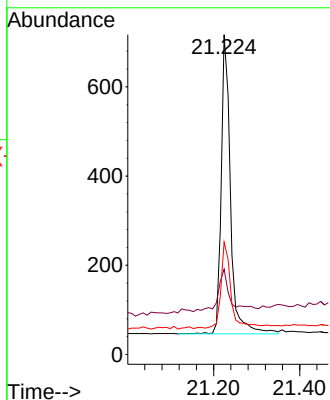
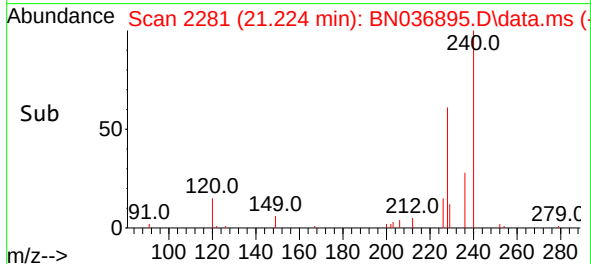


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.224 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

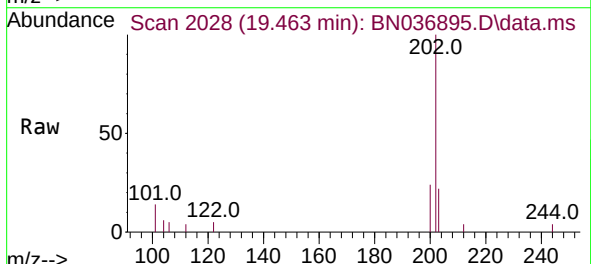
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



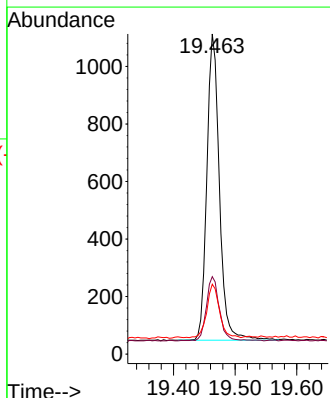
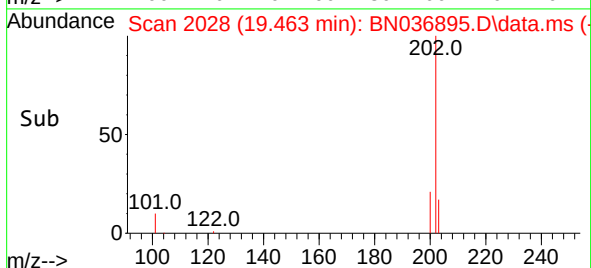
Tgt Ion:240 Resp: 999
Ion Ratio Lower Upper
240 100
120 26.6 15.8 23.6#
236 35.1 25.8 38.8

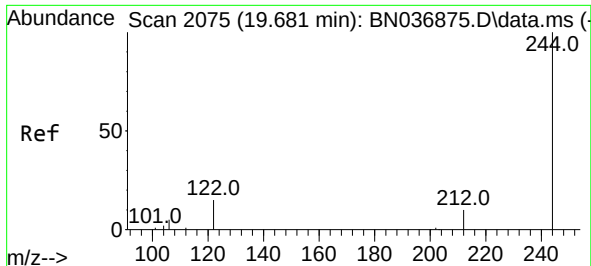


#30
Pyrene
Concen: 0.397 ng
RT: 19.463 min Scan# 2028
Delta R.T. -0.005 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21



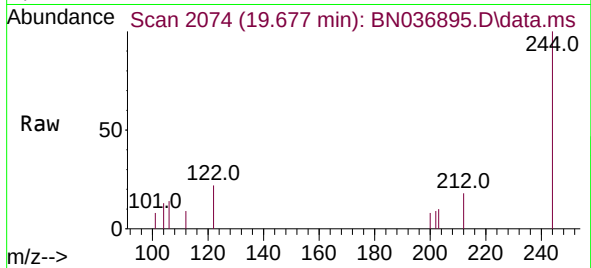
Tgt Ion:202 Resp: 1497
Ion Ratio Lower Upper
202 100
200 21.8 17.1 25.7
203 17.5 14.5 21.7



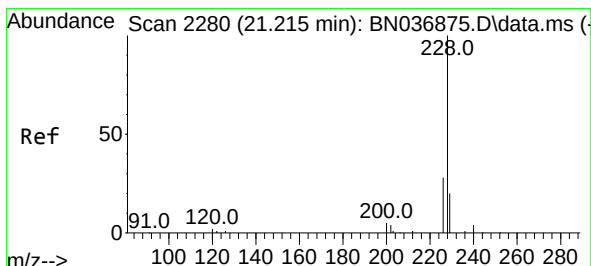
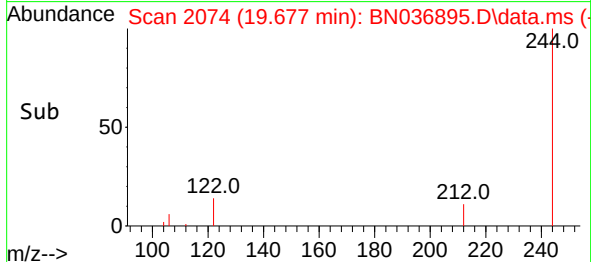
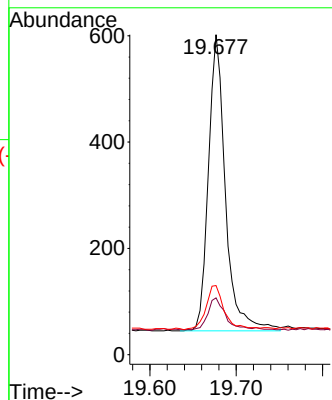


#31
 Terphenyl-d14
 Concen: 0.403 ng
 RT: 19.677 min Scan# 2074
 Delta R.T. -0.005 min
 Lab File: BN036895.D
 Acq: 12 Apr 2025 01:21

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

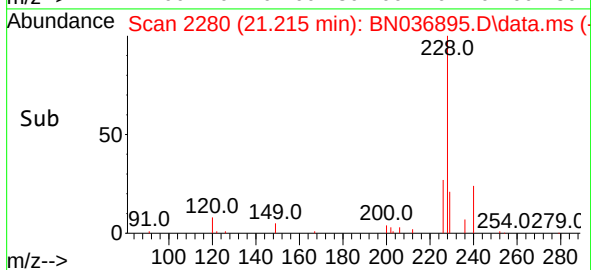
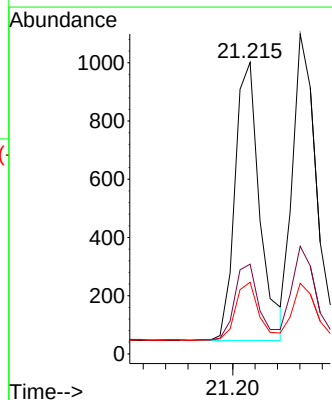
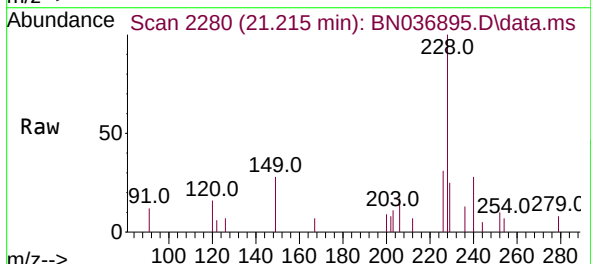


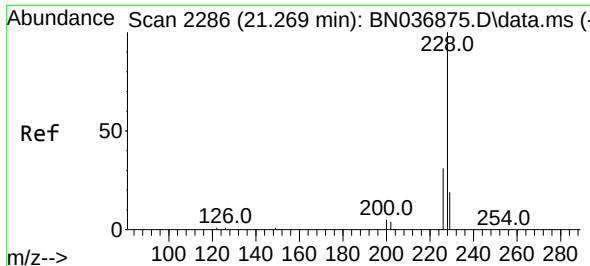
Tgt Ion:244 Resp: 764
 Ion Ratio Lower Upper
 244 100
 212 17.8 11.6 17.4#
 122 21.6 14.9 22.3



#32
 Benzo(a)anthracene
 Concen: 0.417 ng
 RT: 21.215 min Scan# 2280
 Delta R.T. 0.000 min
 Lab File: BN036895.D
 Acq: 12 Apr 2025 01:21

Tgt Ion:228 Resp: 1472
 Ion Ratio Lower Upper
 228 100
 226 30.8 24.5 36.7
 229 24.6 17.7 26.5

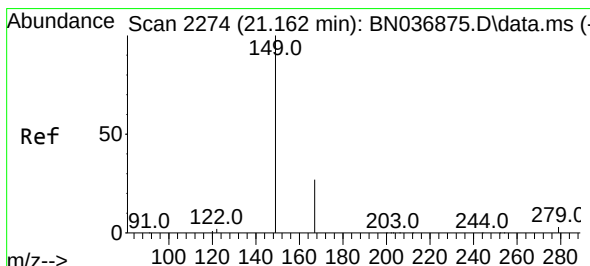
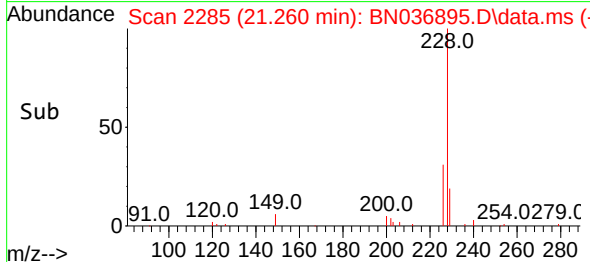
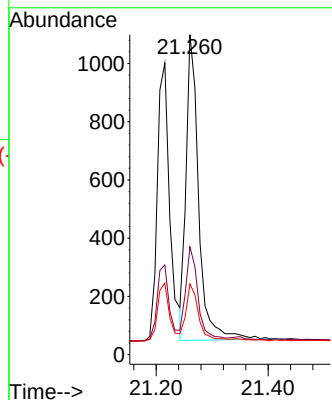
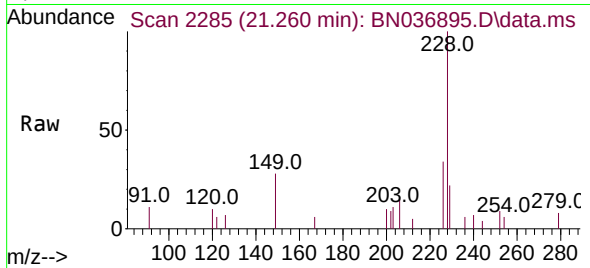




#33
Chrysene
Concen: 0.424 ng
RT: 21.260 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

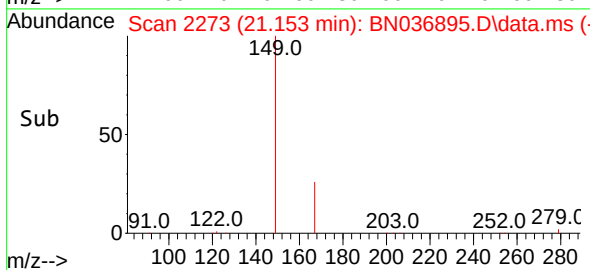
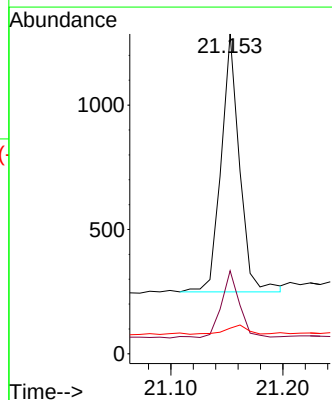
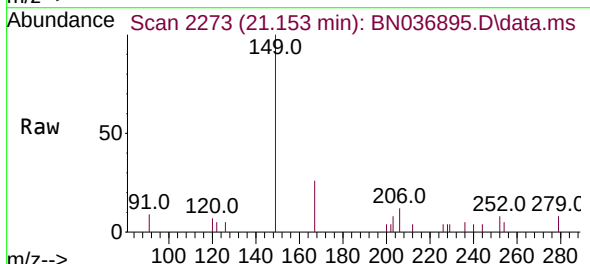
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

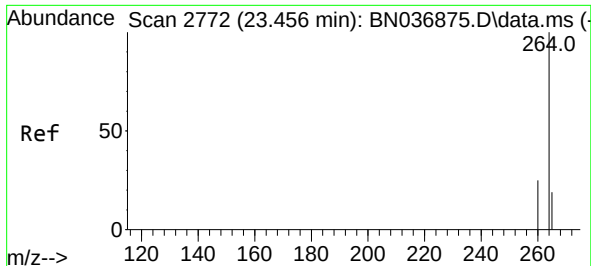
Tgt Ion:228 Resp: 1649
Ion Ratio Lower Upper
228 100
226 33.7 26.1 39.1
229 22.1 17.0 25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.454 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Tgt Ion:149 Resp: 1188
Ion Ratio Lower Upper
149 100
167 26.3 21.0 31.4
279 4.0 3.6 5.4





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.445 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN036895.D

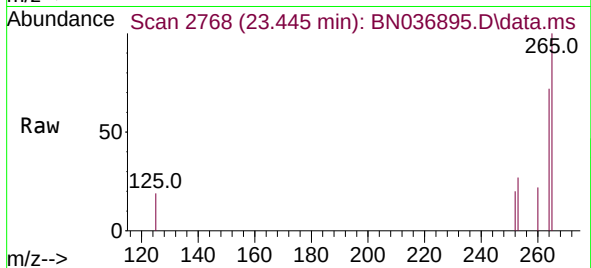
Acq: 12 Apr 2025 01:21

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



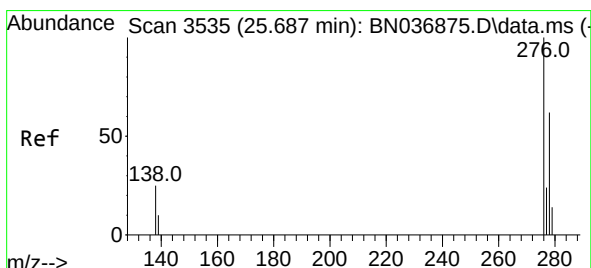
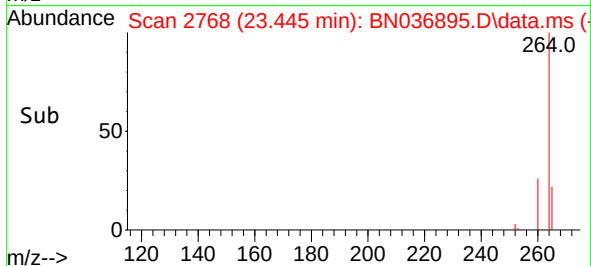
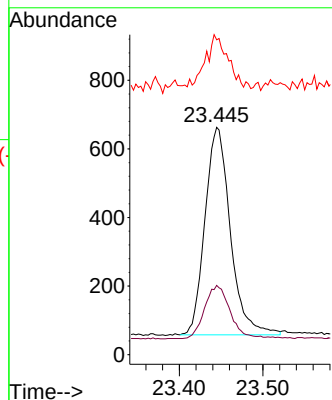
Tgt Ion:264 Resp: 1276

Ion Ratio Lower Upper

264 100

260 30.5 22.9 34.3

265 138.5 88.6 132.8#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.450 ng

RT: 25.678 min Scan# 3532

Delta R.T. -0.009 min

Lab File: BN036895.D

Acq: 12 Apr 2025 01:21

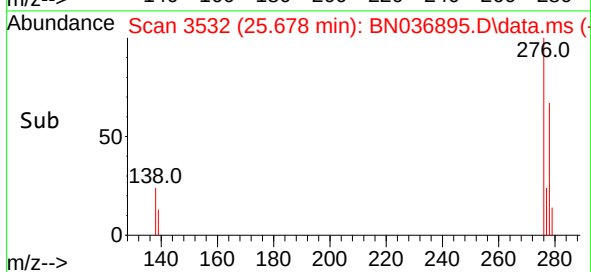
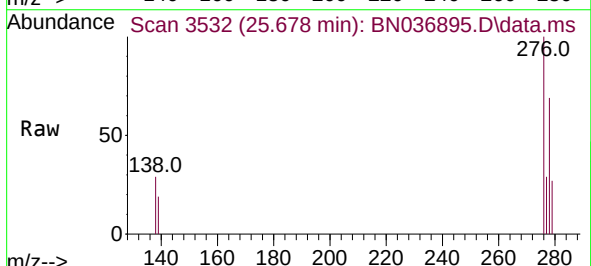
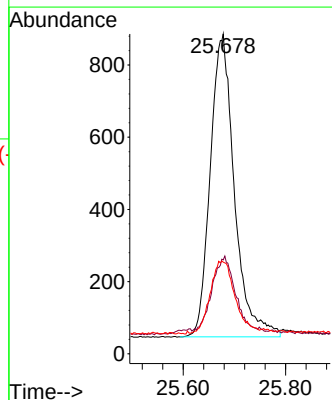
Tgt Ion:276 Resp: 2743

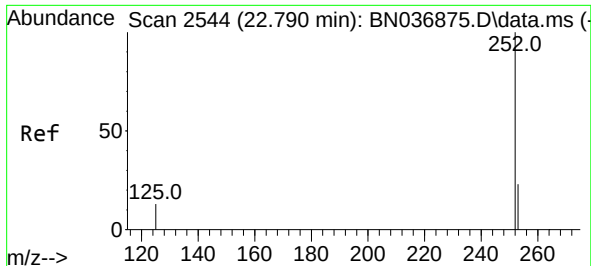
Ion Ratio Lower Upper

276 100

138 23.5 21.0 31.6

277 24.4 19.3 28.9

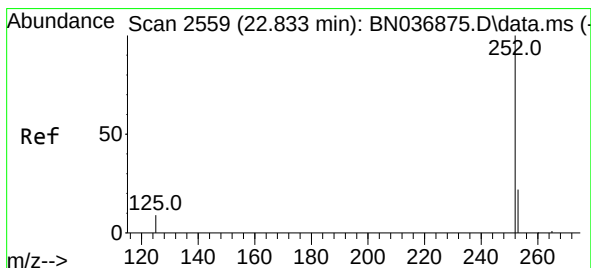
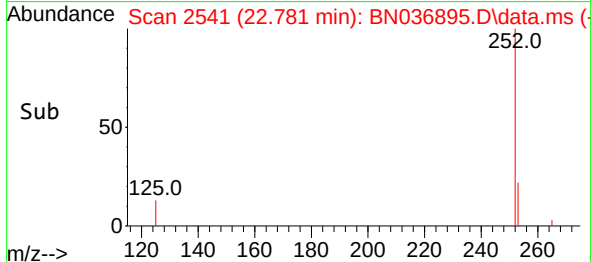
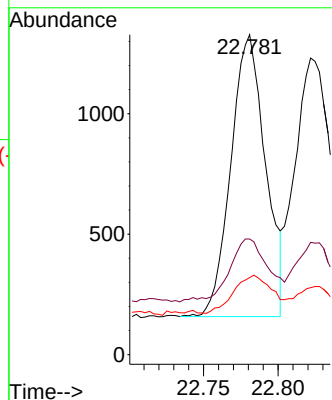
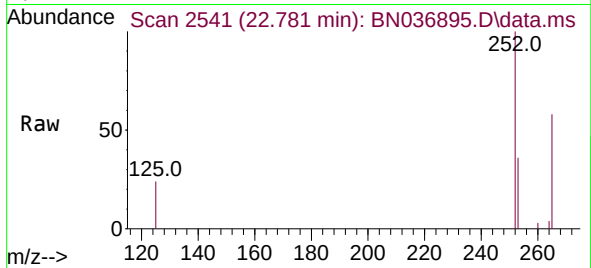




#37
Benzo(b)fluoranthene
Concen: 0.417 ng
RT: 22.781 min Scan# 2541
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

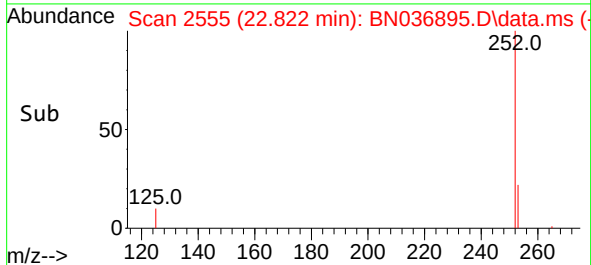
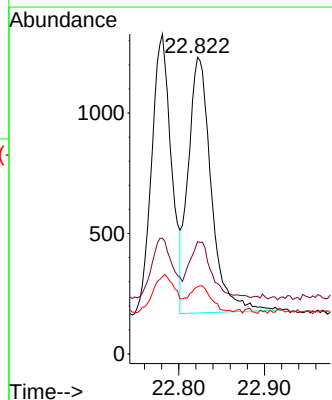
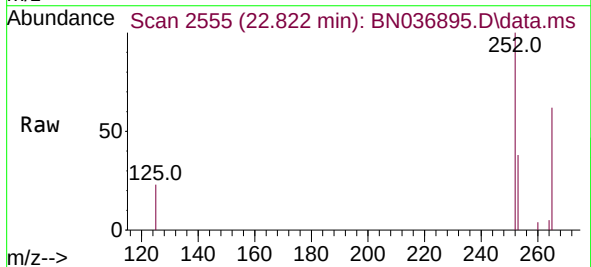
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

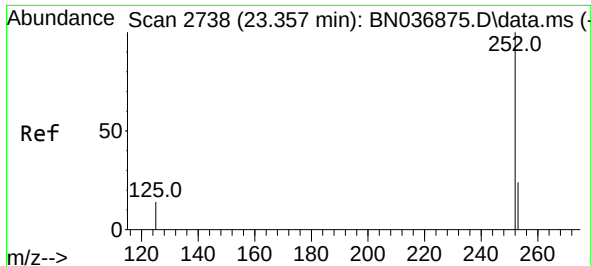
Tgt Ion:252 Resp: 1886
Ion Ratio Lower Upper
252 100
253 36.1 27.0 40.6
125 24.1 17.7 26.5



#38
Benzo(k)fluoranthene
Concen: 0.434 ng
RT: 22.822 min Scan# 2555
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

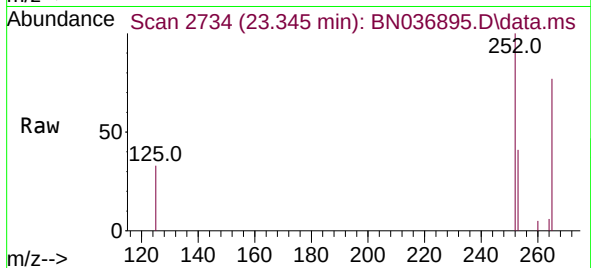
Tgt Ion:252 Resp: 1982
Ion Ratio Lower Upper
252 100
253 37.9 26.7 40.1
125 22.6 16.9 25.3



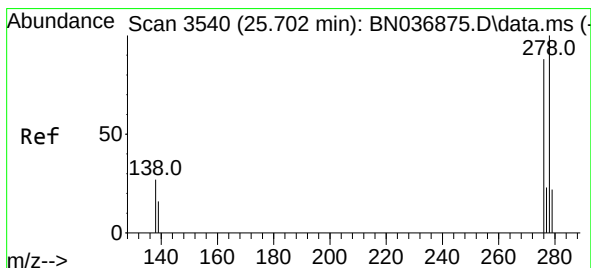
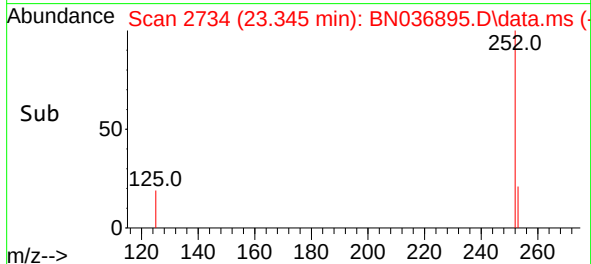
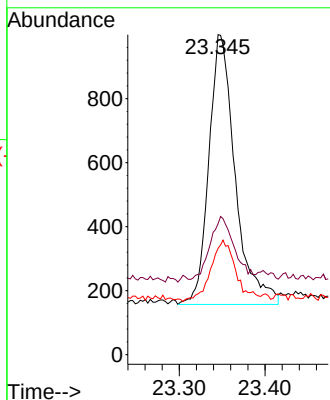


#39
Benzo(a)pyrene
Concen: 0.453 ng
RT: 23.345 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

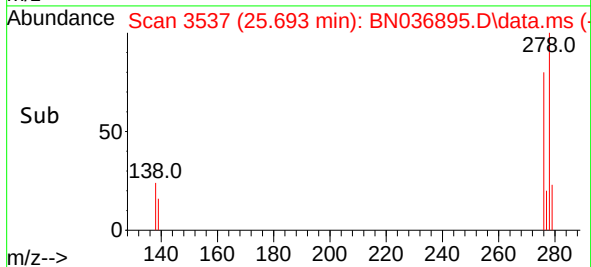
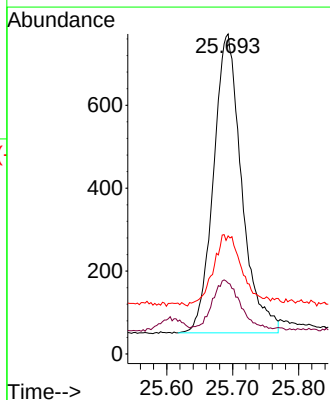
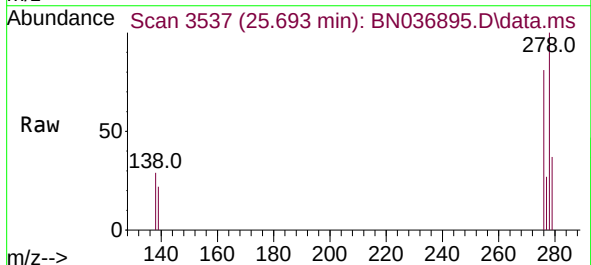


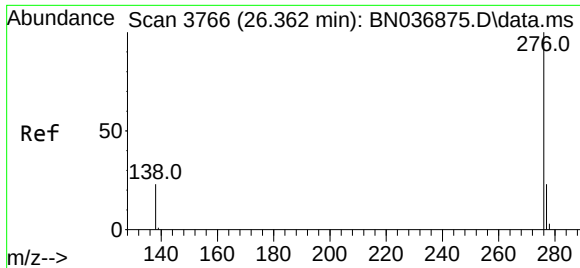
Tgt Ion:252 Resp: 1796
Ion Ratio Lower Upper
252 100
253 40.9 31.5 47.3
125 33.2 22.6 34.0



#40
Dibenzo(a,h)anthracene
Concen: 0.441 ng
RT: 25.693 min Scan# 3537
Delta R.T. -0.009 min
Lab File: BN036895.D
Acq: 12 Apr 2025 01:21

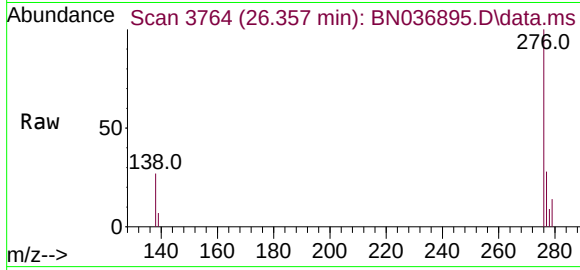
Tgt Ion:278 Resp: 2134
Ion Ratio Lower Upper
278 100
139 22.2 17.6 26.4
279 36.9 26.7 40.1





#41
 Benzo(g,h,i)perylene
 Concen: 0.459 ng
 RT: 26.357 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: BN036895.D
 Acq: 12 Apr 2025 01:21

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



Tgt Ion:	276	Resp:	2511
Ion	Ratio	Lower	Upper
276	100		
277	27.8	21.8	32.8
138	26.8	21.6	32.4

