

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q2263

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2263

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q2263-01
Q2263-02

Client Sample Number

RW9-MW01D3-20250606
RW9-MW01S-20250606

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 9:01 am, Jun 23, 2025

Date: 6/20/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



CASE NARRATIVE

AECOM Technical Services, Inc.

Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Project # N/A

Order ID # Q2263

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/06/2025.

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.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

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



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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 9:01 am, Jun 23, 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

ORDER ID: Q2263

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Extraction Holding Time Met If not met, list number of days exceeded for each sample:			✓

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

	NA	NO	YES
11. Analysis Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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

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.

REVIEWED

QA REVIEW

By Sohil Jodhani, QA/QC Director at 10:57 am, Jun 20, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2263

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/20/2025

LAB CHRONICLE

OrderID:	Q2263	OrderDate:	6/6/2025 12:42:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	D21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2263-01	RW9-MW01D3-20250606	Water			06/06/25			06/06/25
			SVOC-SIMGroup1	8270-Modified		06/10/25	06/14/25	
Q2263-02	RW9-MW01S-20250606	Water			06/06/25			06/06/25
			SVOC-SIMGroup1	8270-Modified		06/10/25	06/14/25	



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Hit Summary Sheet
SW-846

SDG No.: Q2263
Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW9-MW01S-20250606							
Q2263-02	RW9-MW01S-20250606	WATER 1,4-Dioxane	0.410		0.07	0.21	0.21	ug/L
Total Svoc :				0.41				
Total Concentration:				0.41				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2263

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168391BL	PB168391BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.26	64		55	111
		2-Fluorobiphenyl	0.4	0.28	69		53	106
		Terphenyl-d14	0.4	0.35	88		58	132
PB168391BS	PB168391BS	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB168391BSD	PB168391BSD	2-Methylnaphthalene-d10	0.4	0.37	91		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.38	95		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
Q2263-01	RW9-MW01D3-20250606	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.38	96		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
Q2263-02	RW9-MW01S-20250606	2-Methylnaphthalene-d10	0.4	0.33	81		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.50	125		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2263

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN037236.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168391BS	1,4-Dioxane	0.4	0.39	ug/L	98				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2263

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN037237.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168391BSD	1,4-Dioxane	0.4	0.42	ug/L	105	7			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168391BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q2263

SAS No.: Q2263 SDG NO.: Q2263

Lab File ID: BN037233.D

Lab Sample ID: PB168391BL

Instrument ID: BNA_N

Date Extracted: 06/10/2025

Matrix: (soil/water) Water

Date Analyzed: 06/13/2025

Level: (low/med) LOW

Time Analyzed: 19:00

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168391BS	PB168391BS	BN037236.D	06/13/2025
PB168391BSD	PB168391BSD	BN037237.D	06/13/2025
RW9-MW01D3-20250606	Q2263-01	BN037242.D	06/14/2025
RW9-MW01S-20250606	Q2263-02	BN037243.D	06/14/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2263SDG NO.: Q2263Lab File ID: BN037223.DDFTPP Injection Date: 06/13/2025Instrument ID: BNA_NDFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	80.2
68	Less than 2.0% of mass 69	0.7 (1.1) 1
69	Mass 69 relative abundance	64.6
70	Less than 2.0% of mass 69	0.3 (0.4) 1
127	10.0 - 80.0% of mass 198	56.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	11.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.6 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037225.D	06/13/2025	13:33
SSTDICC0.2	SSTDICC0.2	BN037226.D	06/13/2025	14:10
SSTDICCC0.4	SSTDICCC0.4	BN037227.D	06/13/2025	14:46
SSTDICC0.8	SSTDICC0.8	BN037228.D	06/13/2025	15:22
SSTDICC1.6	SSTDICC1.6	BN037229.D	06/13/2025	15:59
SSTDICC3.2	SSTDICC3.2	BN037230.D	06/13/2025	16:35
SSTDICC5.0	SSTDICC5.0	BN037231.D	06/13/2025	17:11
PB168391BL	PB168391BL	BN037233.D	06/13/2025	19:00
PB168391BS	PB168391BS	BN037236.D	06/13/2025	20:49
PB168391BSD	PB168391BSD	BN037237.D	06/13/2025	21:25
SSTDCCC0.4EC	SSTDCCC0.4	BN037238.D	06/13/2025	22:01



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2263SDG NO.: Q2263Lab File ID: BN037239.DDFTPP Injection Date: 06/13/2025Instrument ID: BNA_NDFTPP Injection Time: 23:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	87.1
68	Less than 2.0% of mass 69	0.7 (1) 1
69	Mass 69 relative abundance	65.4
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	55.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1% of mass 198	4.7
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.3 (21.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037240.D	06/13/2025	23:55
RW9-MW01D3-20250606	Q2263-01	BN037242.D	06/14/2025	01:08
RW9-MW01S-20250606	Q2263-02	BN037243.D	06/14/2025	01:44
SSTDCCC0.4EC	SSTDCCC0.4	BN037257.D	06/14/2025	10:10

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2263 SAS No.: Q2263 SDG NO.: Q2263

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037227.D Time Analyzed: 14:46

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	1287	7.575	3210	10.36	1738	14.22
UPPER LIMIT	2574	8.075	6420	10.861	3476	14.724
LOWER LIMIT	643.5	7.075	1605	9.861	869	13.724
EPA SAMPLE NO.						
01 PB168391BS	1477	7.58	3518	10.35	1759	14.22
02 PB168391BSD	1340	7.58	3197	10.35	1517	14.22
03 PB168391BL	1036	7.58	2301	10.37	1224	14.23

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.: Q2263 SAS No.: Q2263 SDG NO.: Q2263

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037227.D Time Analyzed: 14:46

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	3195	16.971	2284	21.179	2150	23.365
UPPER LIMIT	6390	17.471	4568	21.679	4300	23.865
LOWER LIMIT	1597.5	16.471	1142	20.679	1075	22.865
EPA SAMPLE NO.						
01 PB168391BS	2958	16.97	2090	21.17	1978	23.36
02 PB168391BSD	2544	16.97	1864	21.17	1823	23.36
03 PB168391BL	1841	17.00	1578	21.18	1599	23.37

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2263 SAS No.: Q2263 SDG NO.: Q2263

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037240.D Time Analyzed: 23:55

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	1101	7.582	2581	10.35	1319	14.22
UPPER LIMIT	2202	8.082	5162	10.851	2638	14.724
LOWER LIMIT	550.5	7.082	1290.5	9.851	659.5	13.724
EPA SAMPLE NO.						
01 RW9-MW01D3-20250606	958	7.58	2256	10.36	1255	14.22
02 RW9-MW01S-20250606	932	7.58	2363	10.36	1257	14.22

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2263 SAS No.: Q2263 SDG NO.: Q2263

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/13/2025

Lab File ID: BN037240.D Time Analyzed: 23:55

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	2396	16.971	1787	21.171	1797	23.36
UPPER LIMIT	4792	17.471	3574	21.671	3594	23.86
LOWER LIMIT	1198	16.471	893.5	20.671	898.5	22.86
EPA SAMPLE NO.						
01 RW9-MW01D3-20250606	2156	16.98	1827	21.17	1841	23.36
02 RW9-MW01S-20250606	2205	16.98	1783	21.17	1754	23.36

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

1
2
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17
18

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/06/25
Client Sample ID:	RW9-MW01D3-20250606	SDG No.:	Q2263
Lab Sample ID:	Q2263-01	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
BN037242.D	1	06/10/25 12:20	06/14/25 01:08	PB168391

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		96%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	958	7.582				
1146-65-2	Naphthalene-d8	2260	10.361				
15067-26-2	Acenaphthene-d10	1260	14.224				
1517-22-2	Phenanthrene-d10	2160	16.984				
1719-03-5	Chrysene-d12	1830	21.171				
1520-96-3	Perylene-d12	1840	23.36				

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\BN061325\
Data File : BN037242.D
Acq On : 14 Jun 2025 01:08
Operator : RC/JU
Sample : Q2263-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

Quant Time: Jun 14 02:05:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

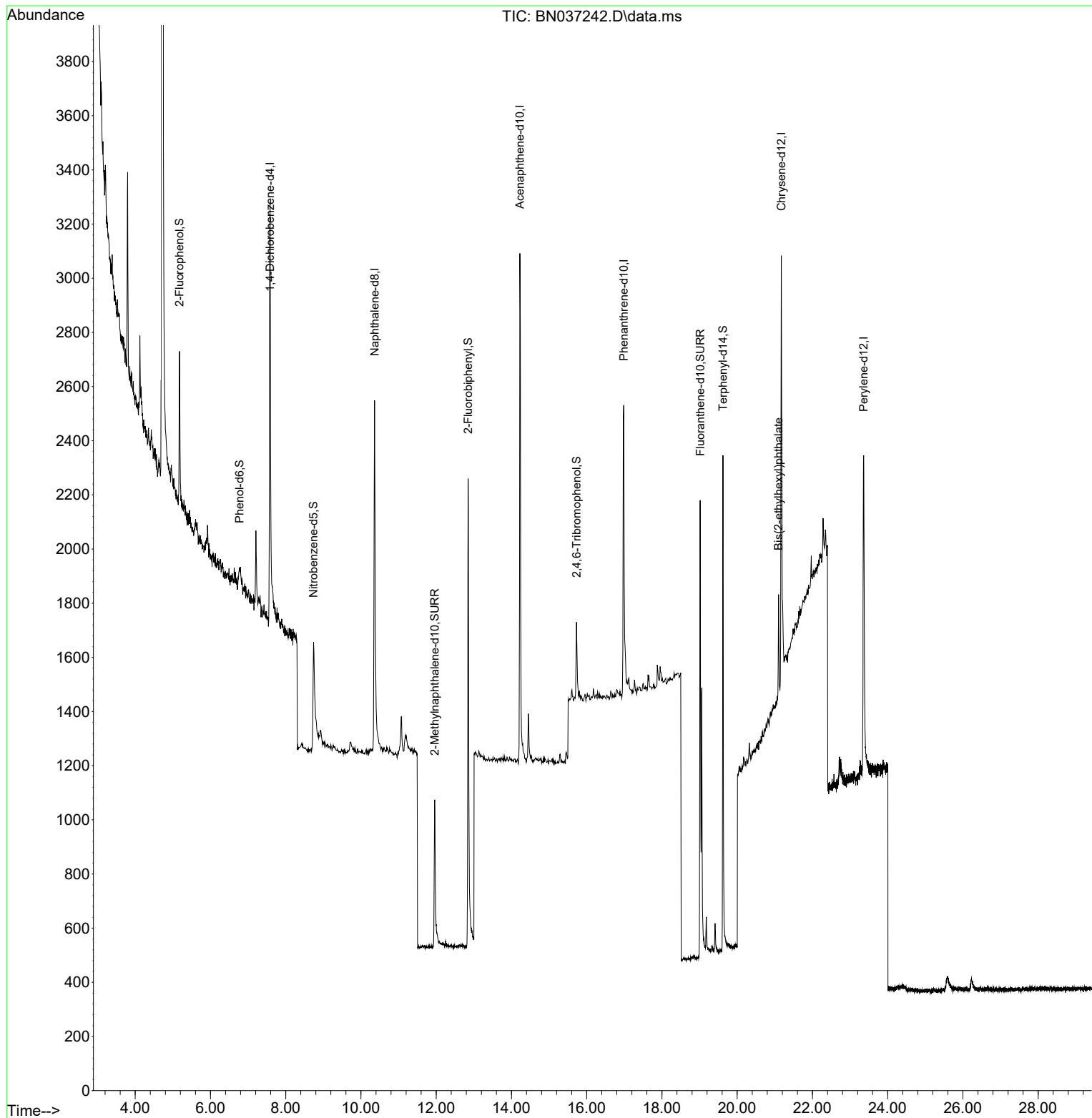
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	958	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2256	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1255	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2156	0.400	ng	# 0.01
29) Chrysene-d12	21.171	240	1827	0.400	ng	0.00
35) Perylene-d12	23.360	264	1841	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	363	0.154	ng	0.00
5) Phenol-d6	6.773	99	155	0.063	ng	0.01
8) Nitrobenzene-d5	8.739	82	660	0.296	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	1035	0.342	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	202	0.388	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2022	0.383	ng	0.00
27) Fluoranthene-d10	19.017	212	2339	0.415	ng	0.00
31) Terphenyl-d14	19.621	244	1897	0.459	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	356	0.077	ng	# 91

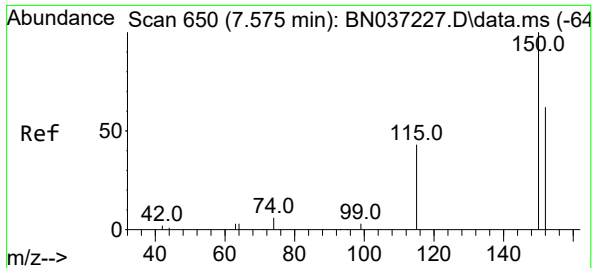
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037242.D
Acq On : 14 Jun 2025 01:08
Operator : RC/JU
Sample : Q2263-01
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

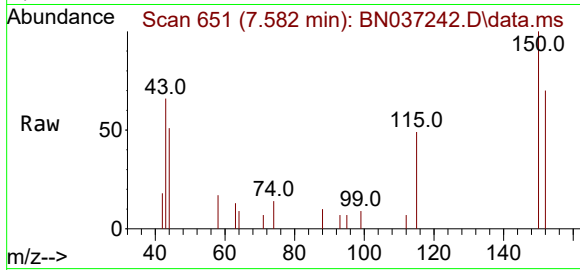
Quant Time: Jun 14 02:05:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



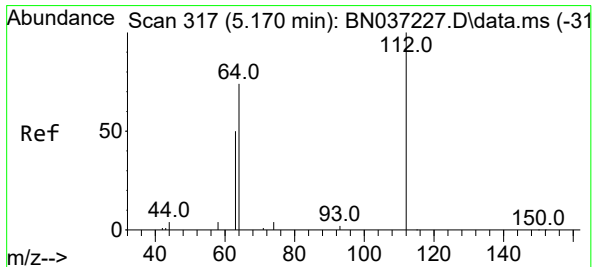
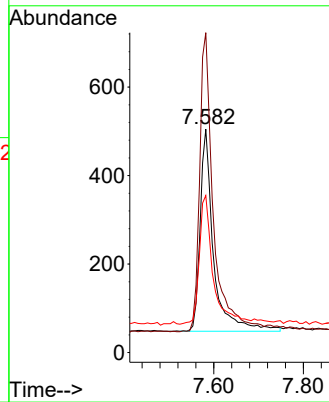
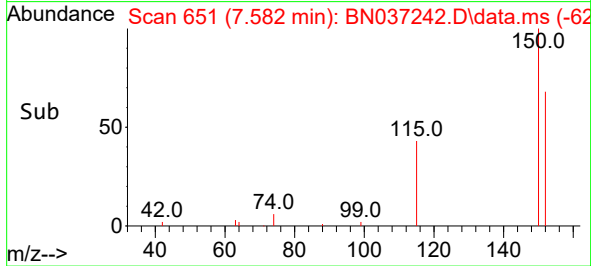


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

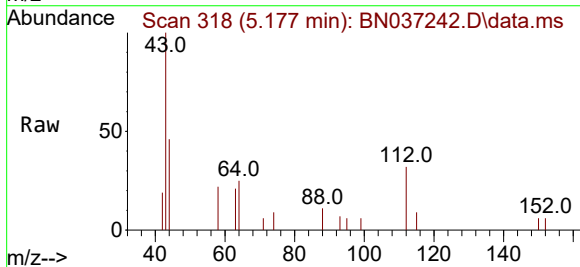
Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606



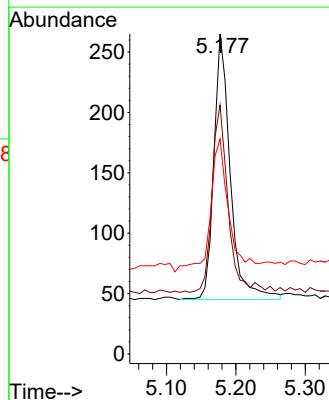
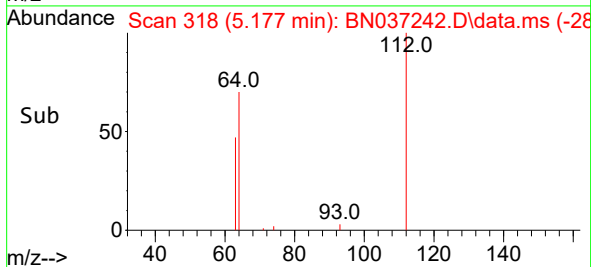
Tgt Ion:152 Resp: 958
Ion Ratio Lower Upper
152 100
150 143.2 125.2 187.8
115 70.3 58.4 87.6

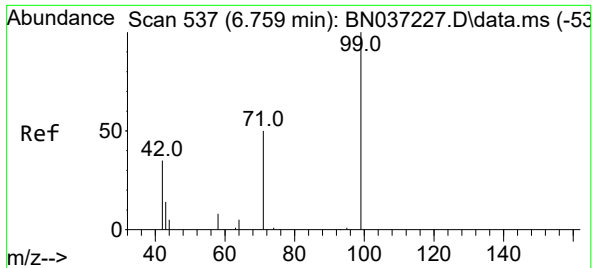


#4
2-Fluorophenol
Concen: 0.154 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08



Tgt Ion:112 Resp: 363
Ion Ratio Lower Upper
112 100
64 68.9 57.2 85.8
63 55.9 39.8 59.6

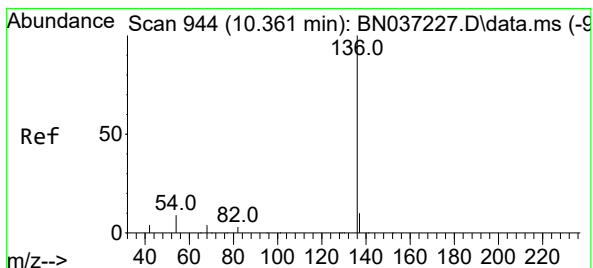
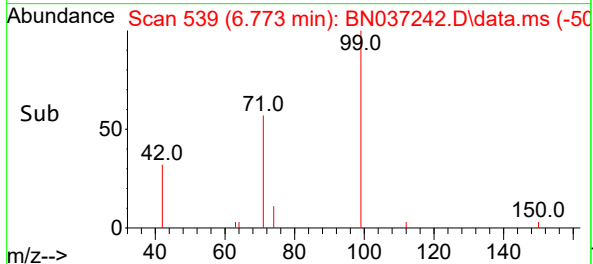
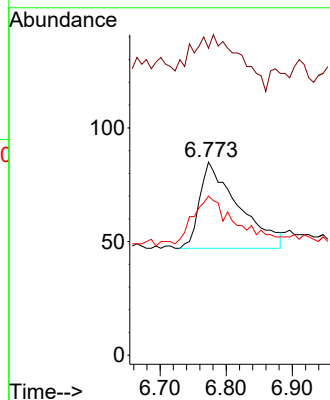
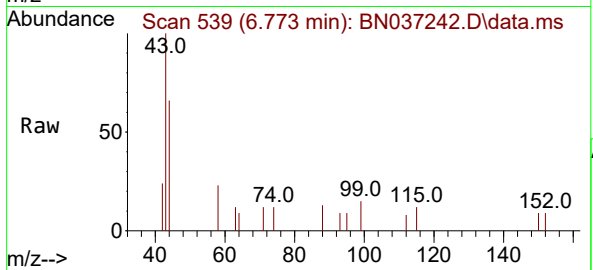




#5
Phenol-d6
Concen: 0.063 ng
RT: 6.773 min Scan# 511
Delta R.T. 0.015 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

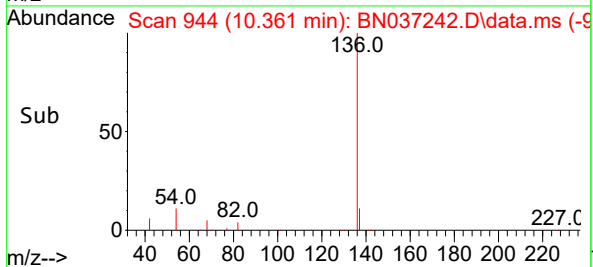
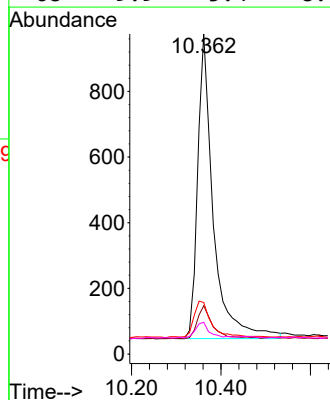
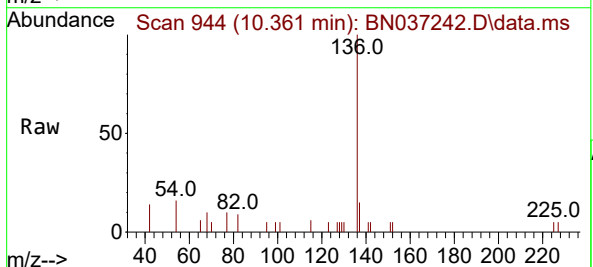
Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

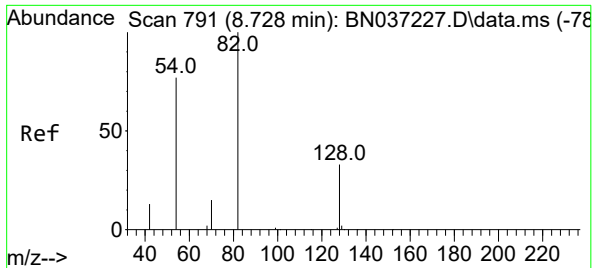
Tgt Ion	Ratio	Lower	Upper
99	100		
42	17.4	36.2	54.4#
71	58.7	42.4	63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

Tgt Ion	Ratio	Lower	Upper
136	100		
137	15.1	10.6	15.8
54	16.1	9.2	13.8#
68	9.9	5.4	8.0#

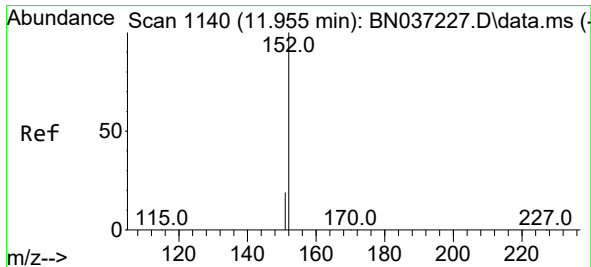
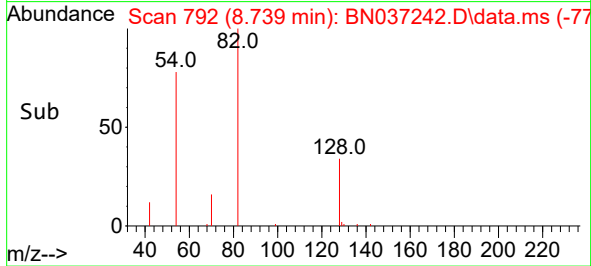
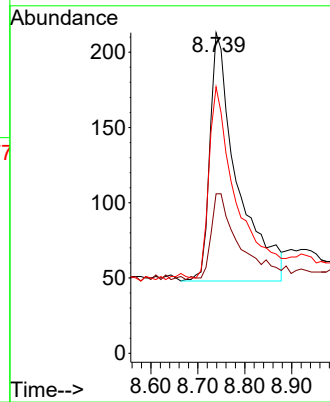
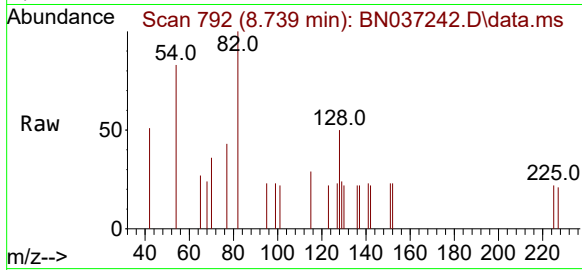




#8
Nitrobenzene-d5
Concen: 0.296 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

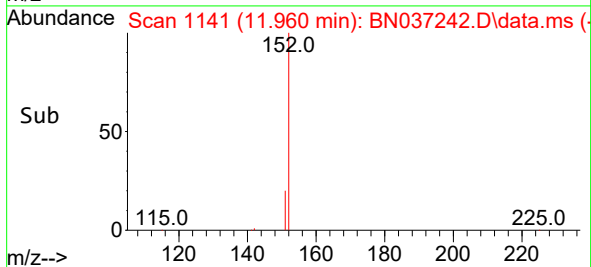
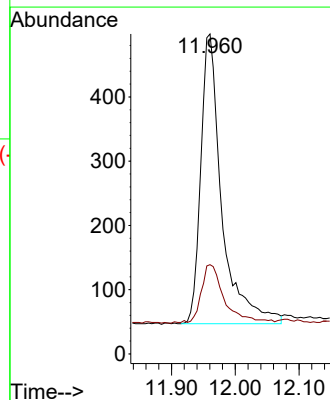
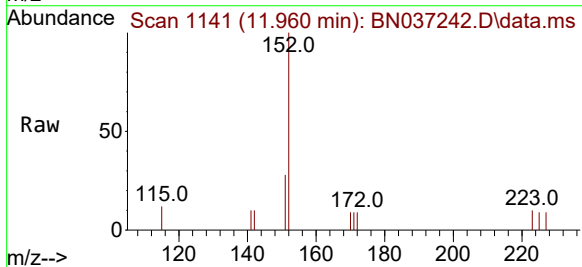
Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

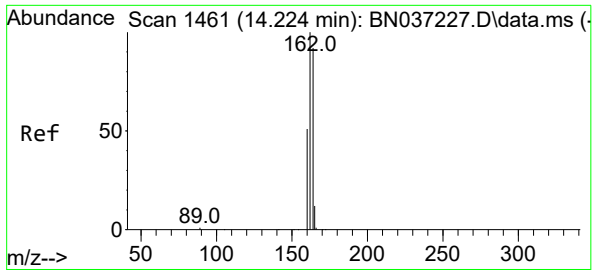
Tgt Ion:	82	Resp:	660
Ion	Ratio	Lower	Upper
82	100		
128	49.8	31.2	46.8
54	83.1	63.3	94.9



#11
2-Methylnaphthalene-d10
Concen: 0.342 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

Tgt Ion:	152	Resp:	1035
Ion	Ratio	Lower	Upper
152	100		
151	22.3	17.9	26.9

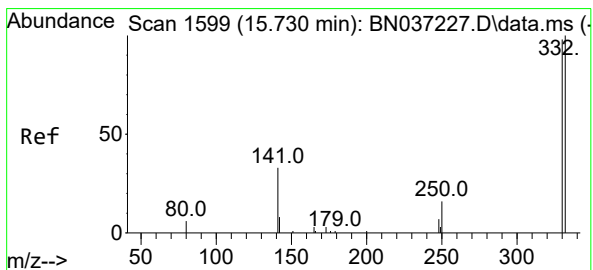
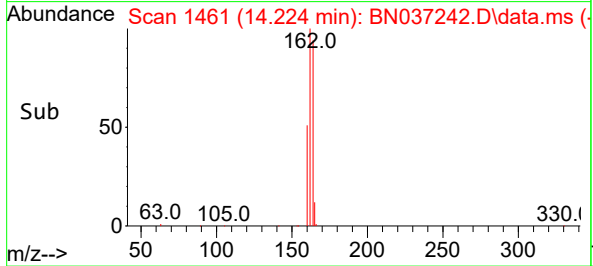
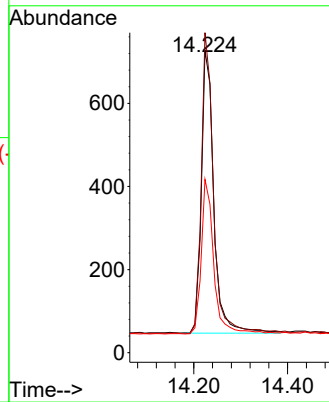
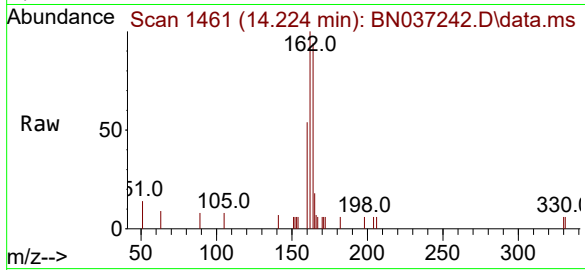




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

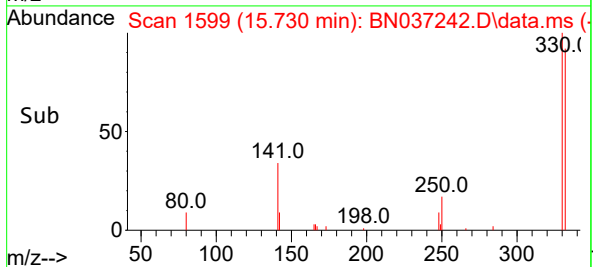
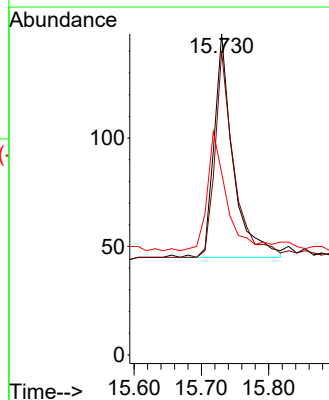
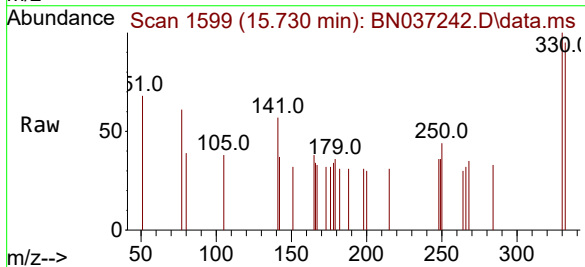
Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

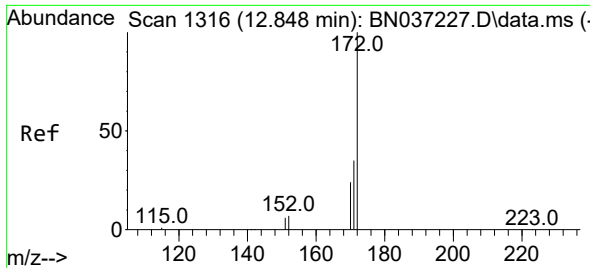
Tgt Ion:164 Resp: 1255
Ion Ratio Lower Upper
164 100
162 105.9 86.7 130.1
160 57.4 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.388 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

Tgt Ion:330 Resp: 202
Ion Ratio Lower Upper
330 100
332 96.0 74.9 112.3
141 55.4 45.1 67.7

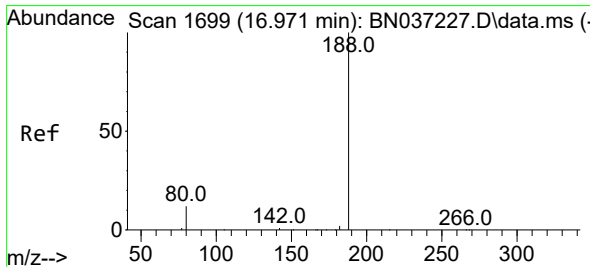
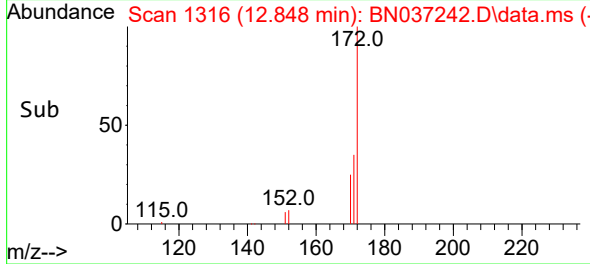
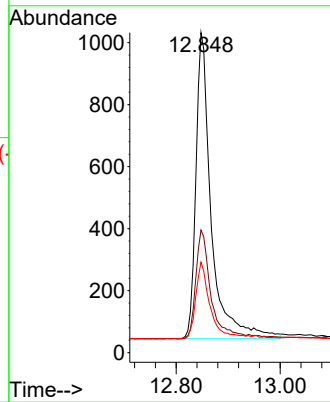
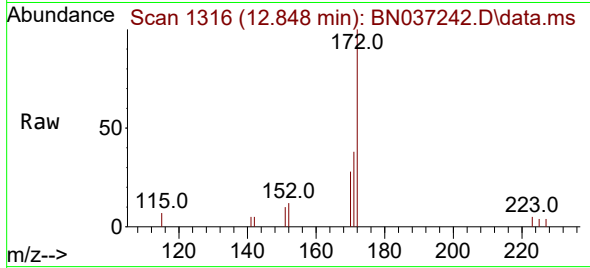




#15
2-Fluorobiphenyl
Concen: 0.383 ng
RT: 12.848 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

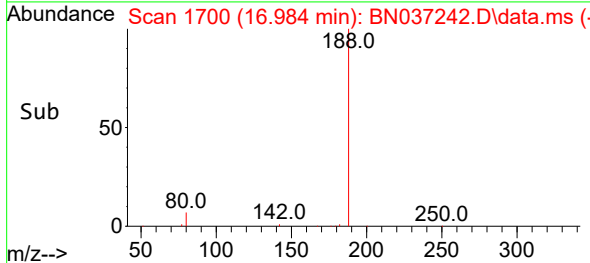
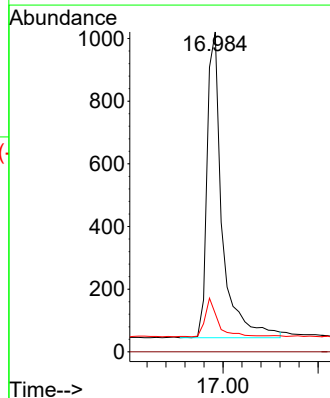
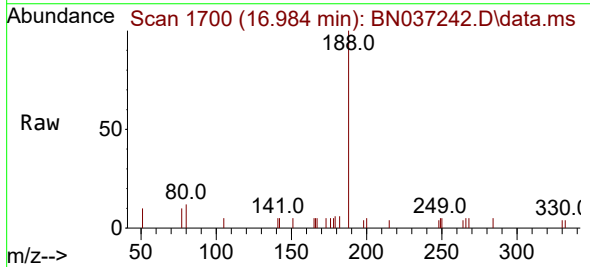
Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

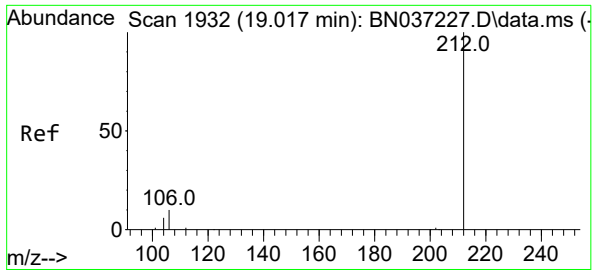
Tgt Ion:	172	Resp:	2022
Ion Ratio	Lower	Upper	
172	100		
171	38.3	29.8	44.8
170	28.3	21.1	31.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.013 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

Tgt Ion:	188	Resp:	2156
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.9	12.2	18.4

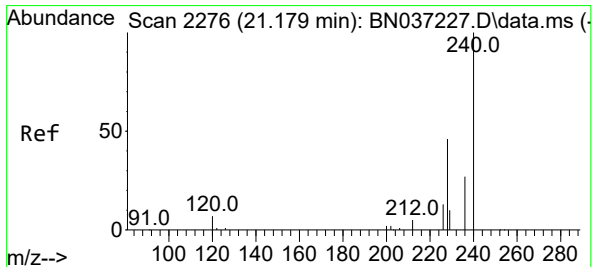
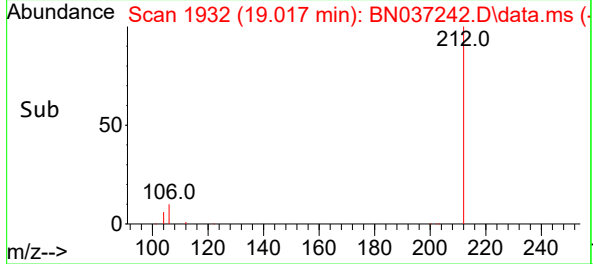
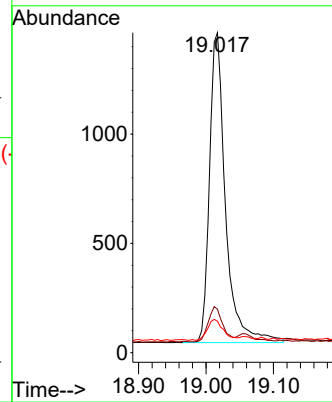
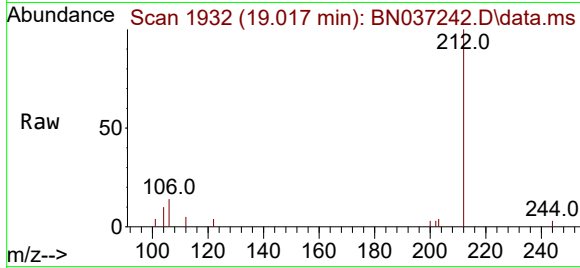




#27
Fluoranthene-d10
Concen: 0.415 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

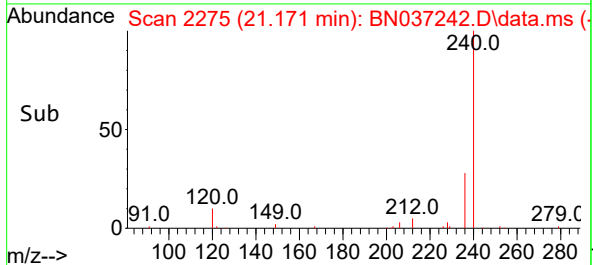
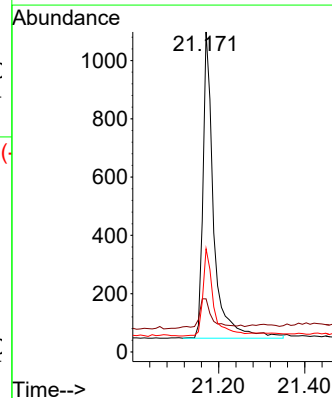
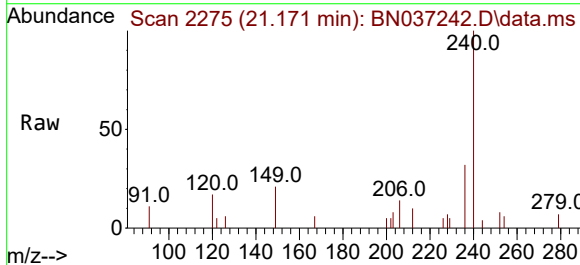
Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

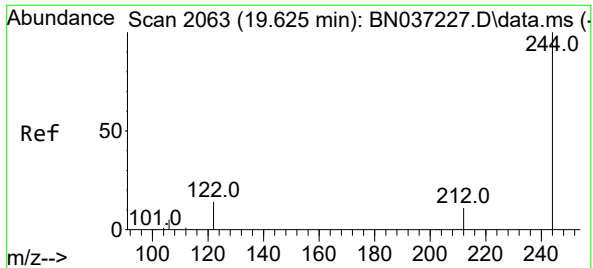
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.3	13.9
104	6.7	5.7	8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.6	11.3	16.9
236	32.2	24.4	36.6

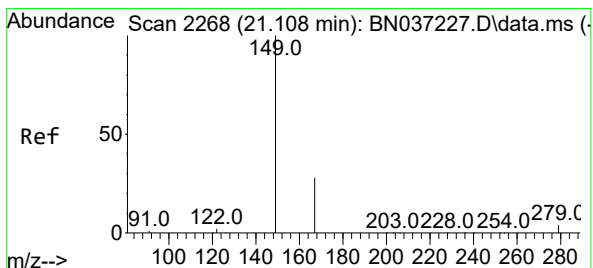
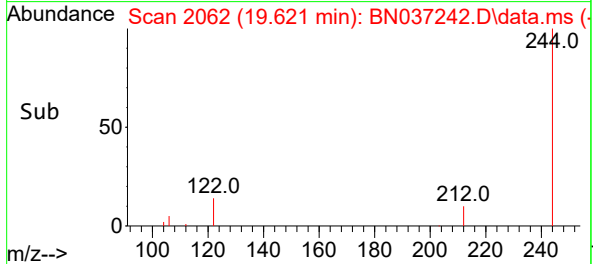
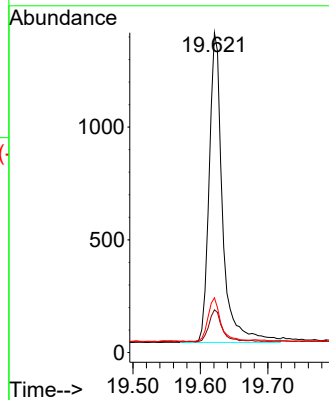
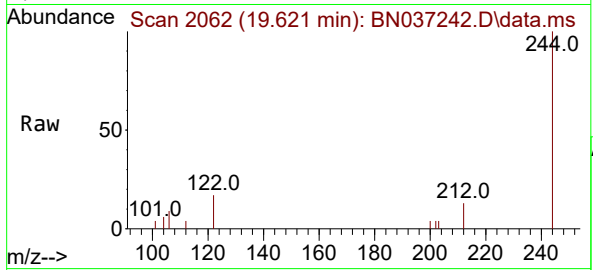




#31
Terphenyl-d14
Concen: 0.459 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

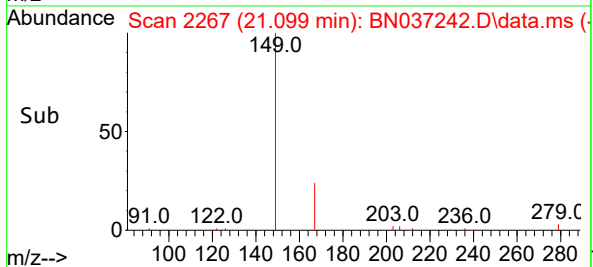
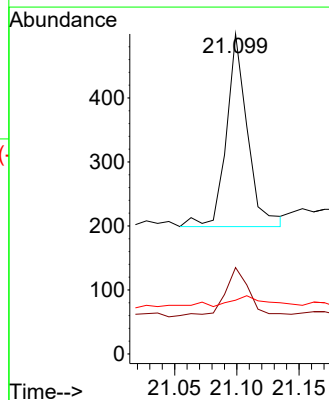
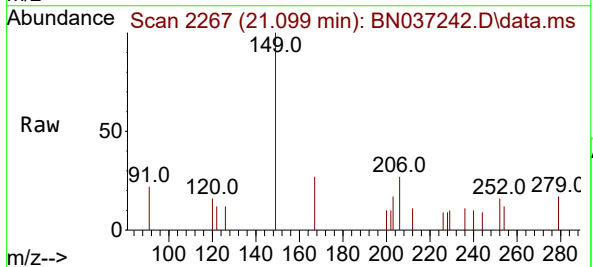
Instrument :
BNA_N
ClientSampleId :
RW9-MW01D3-20250606

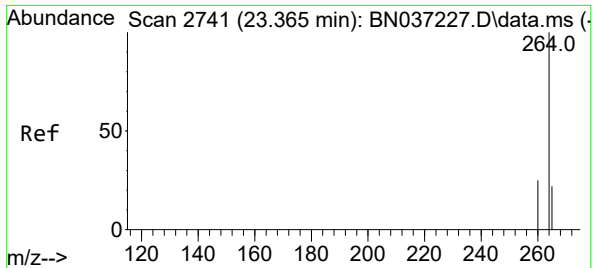
Tgt Ion:244 Resp: 1897
Ion Ratio Lower Upper
244 100
212 13.4 12.2 18.2
122 17.1 14.3 21.5



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037242.D
Acq: 14 Jun 2025 01:08

Tgt Ion:149 Resp: 356
Ion Ratio Lower Upper
149 100
167 30.9 21.3 31.9
279 9.3 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037242.D

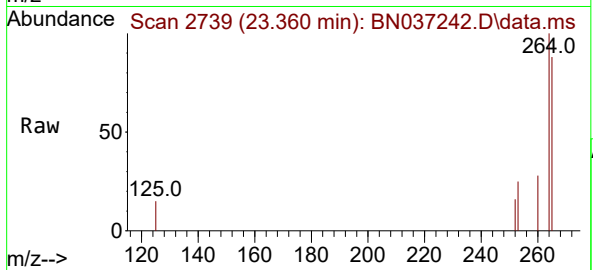
Acq: 14 Jun 2025 01:08

Instrument :

BNA_N

ClientSampleId :

RW9-MW01D3-20250606



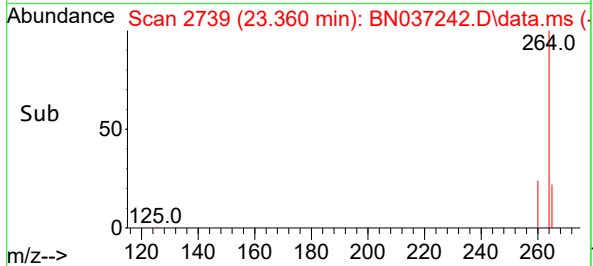
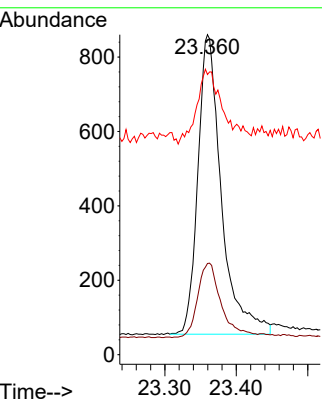
Tgt Ion:264 Resp: 1841

Ion	Ratio	Lower	Upper

264	100		

260	28.5	22.8	34.2

265	87.6	66.4	99.6



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/06/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/06/25
Client Sample ID:	RW9-MW01S-20250606	SDG No.:	Q2263
Lab Sample ID:	Q2263-02	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
BN037243.D	1	06/10/25 12:20	06/14/25 01:44	PB168391

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.41		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	932	7.582				
1146-65-2	Naphthalene-d8	2360	10.362				
15067-26-2	Acenaphthene-d10	1260	14.224				
1517-22-2	Phenanthrene-d10	2210	16.984				
1719-03-5	Chrysene-d12	1780	21.171				
1520-96-3	Perylene-d12	1750	23.363				

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\BN061325\
Data File : BN037243.D
Acq On : 14 Jun 2025 01:44
Operator : RC/JU
Sample : Q2263-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

Quant Time: Jun 14 04:13:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

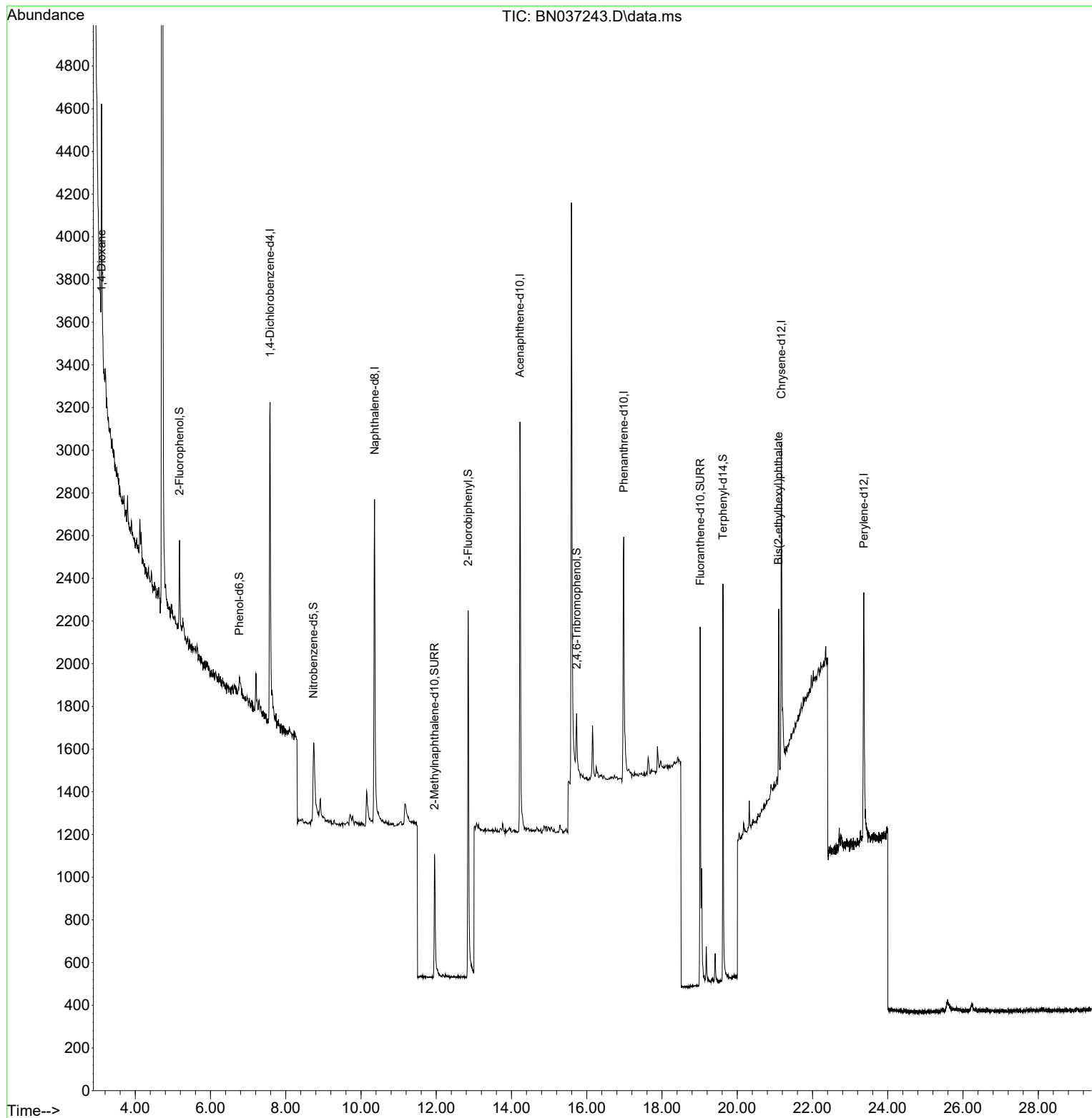
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	932	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2363	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1257	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2205	0.400	ng	0.01
29) Chrysene-d12	21.171	240	1783	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1754	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	320	0.140	ng	0.00
5) Phenol-d6	6.766	99	159	0.066	ng	0.00
8) Nitrobenzene-d5	8.739	82	640	0.274	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	1033	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	184	0.352	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	1964	0.372	ng	0.00
27) Fluoranthene-d10	19.017	212	2357	0.409	ng	0.00
31) Terphenyl-d14	19.621	244	2010	0.499	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	505	0.395	ng	# 61
34) Bis(2-ethylhexyl)phtha...	21.099	149	759	0.169	ng	# 96

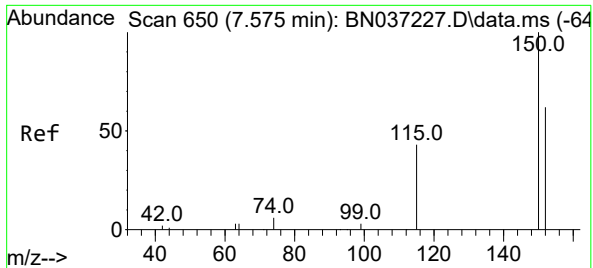
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037243.D
Acq On : 14 Jun 2025 01:44
Operator : RC/JU
Sample : Q2263-02
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

Quant Time: Jun 14 04:13:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

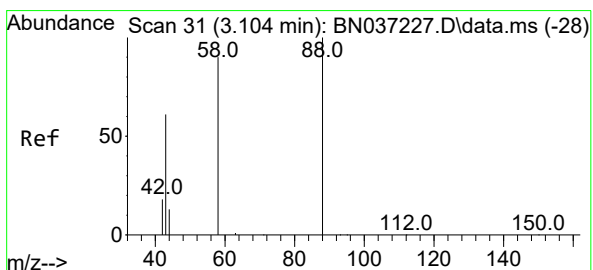
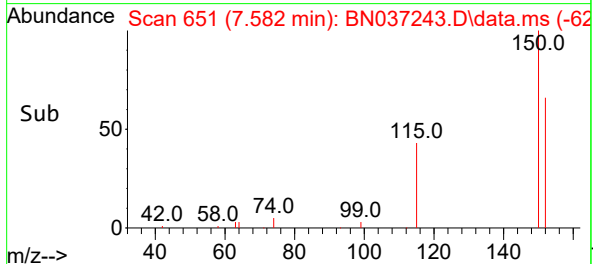
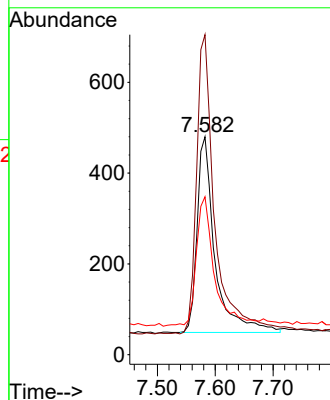
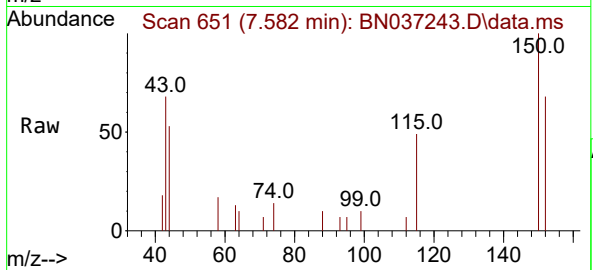




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

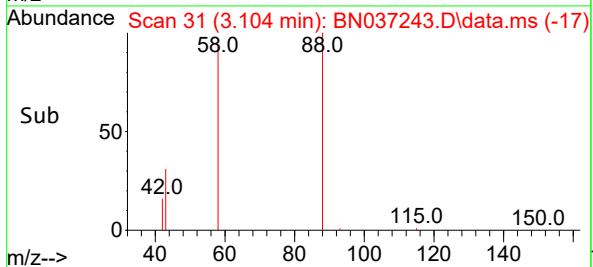
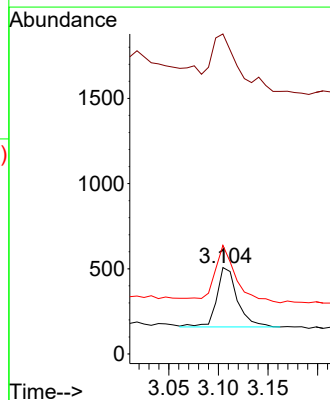
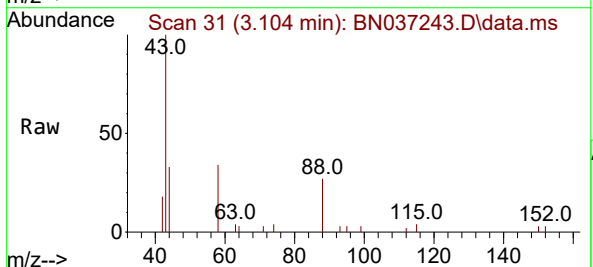
Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

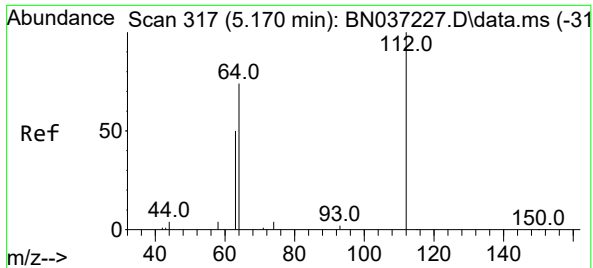
Tgt Ion:152 Resp: 932
Ion Ratio Lower Upper
152 100
150 146.9 125.2 187.8
115 72.5 58.4 87.6



#2
1,4-Dioxane
Concen: 0.395 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

Tgt Ion: 88 Resp: 505
Ion Ratio Lower Upper
88 100
43 129.9 52.6 79.0#
58 101.0 73.5 110.3

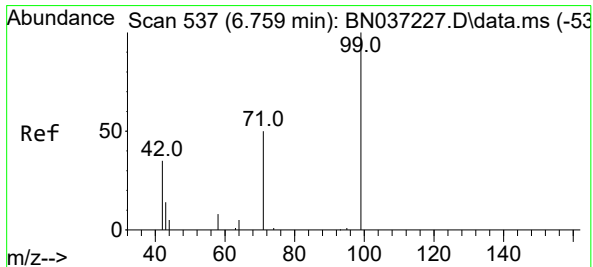
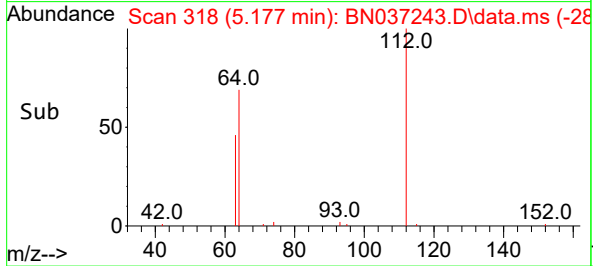
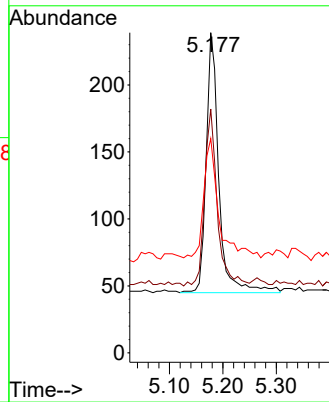
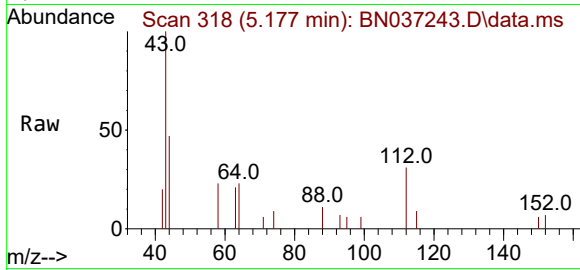




#4
2-Fluorophenol
Concen: 0.140 ng
RT: 5.177 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

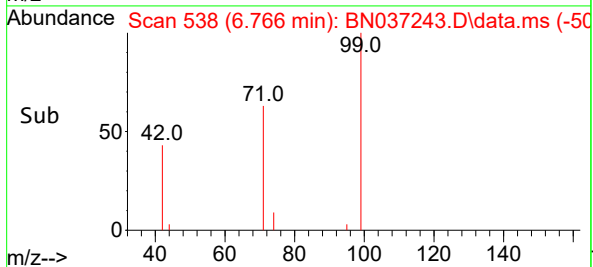
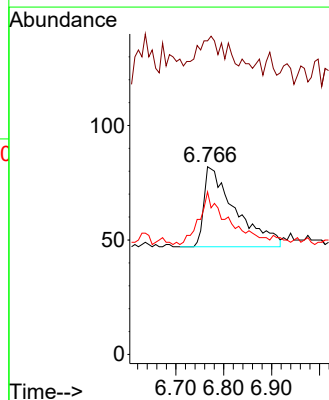
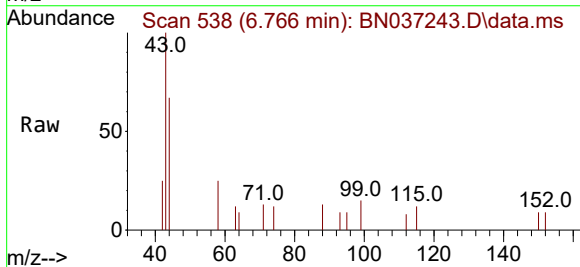
Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

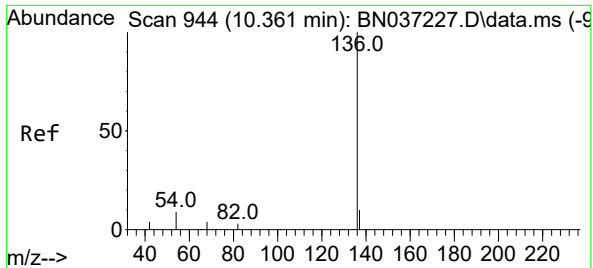
Tgt Ion:112 Resp: 320
Ion Ratio Lower Upper
112 100
64 68.1 57.2 85.8
63 53.1 39.8 59.6



#5
Phenol-d6
Concen: 0.066 ng
RT: 6.766 min Scan# 538
Delta R.T. 0.007 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

Tgt Ion: 99 Resp: 159
Ion Ratio Lower Upper
99 100
42 30.8 36.2 54.4#
71 60.4 42.4 63.6

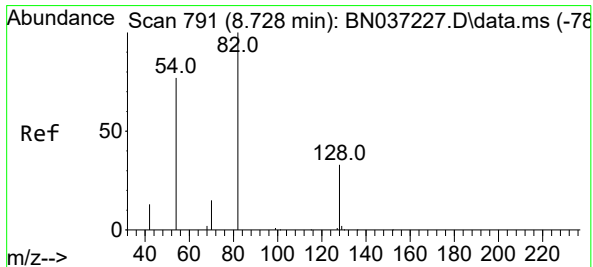
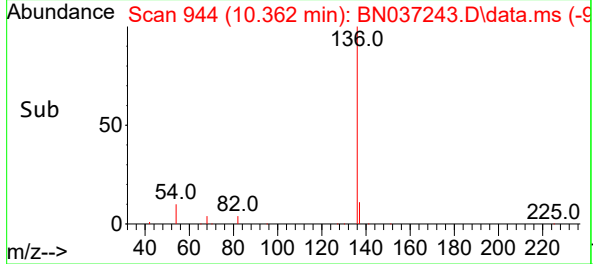
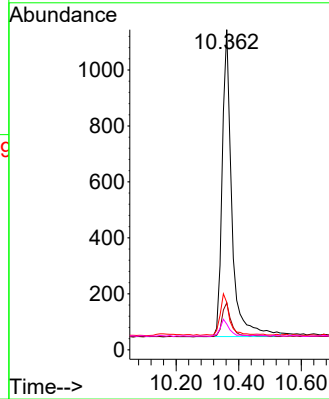
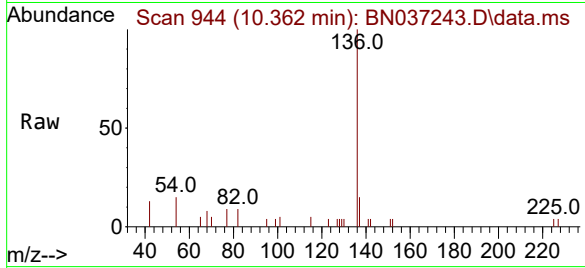




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

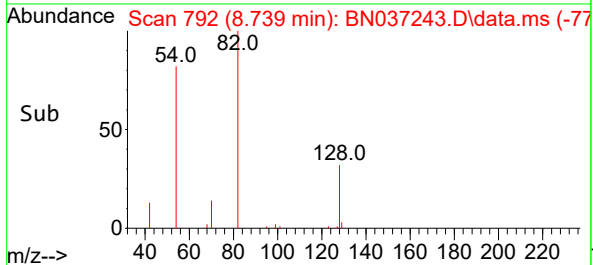
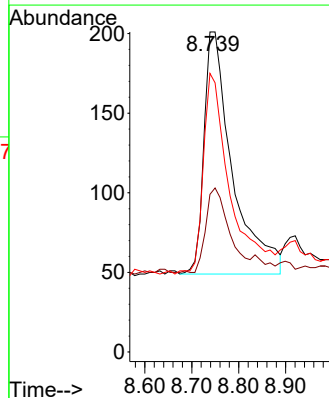
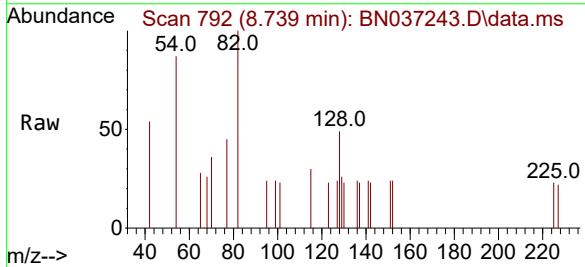
Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

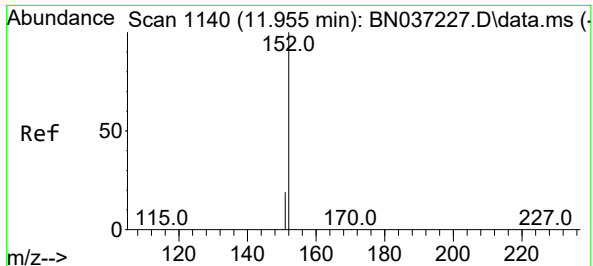
Tgt Ion:	136	Resp:	2363
Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	14.8	9.2	13.8#
68	8.0	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.274 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

Tgt Ion:	82	Resp:	640
Ion	Ratio	Lower	Upper
82	100		
128	49.3	31.2	46.8#
54	87.1	63.3	94.9

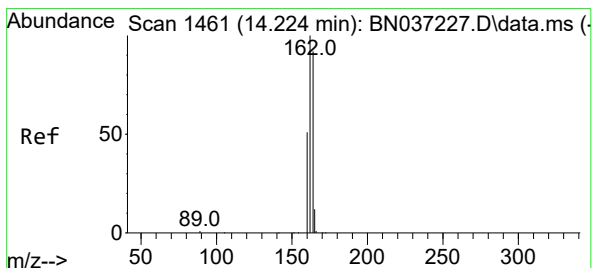
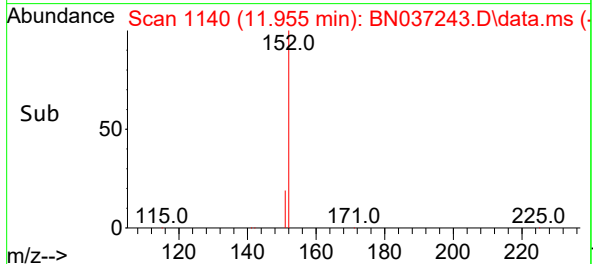
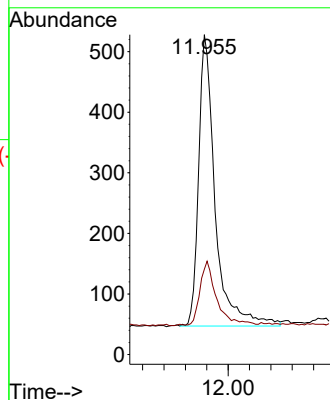
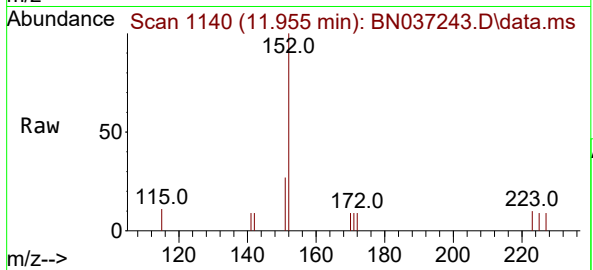




#11
2-Methylnaphthalene-d10
Concen: 0.326 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

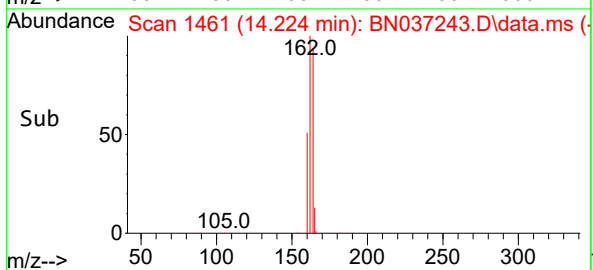
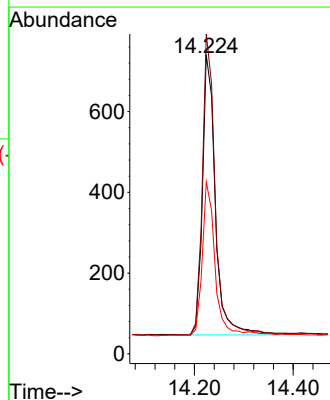
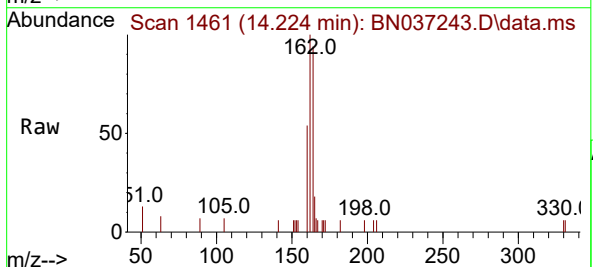
Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

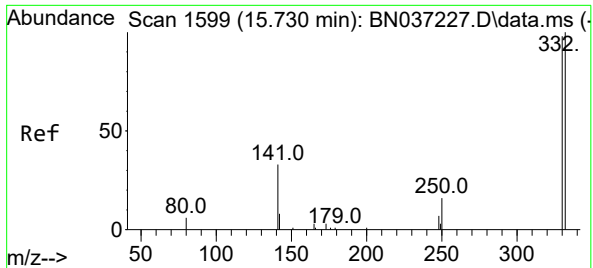
Tgt Ion:152 Resp: 1033
Ion Ratio Lower Upper
152 100
151 21.5 17.9 26.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

Tgt Ion:164 Resp: 1257
Ion Ratio Lower Upper
164 100
162 106.9 86.7 130.1
160 57.5 45.8 68.6

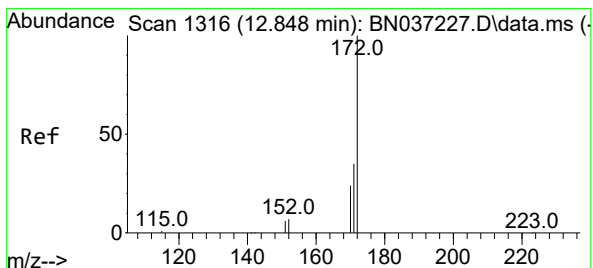
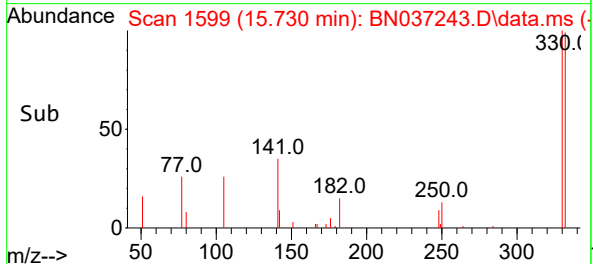
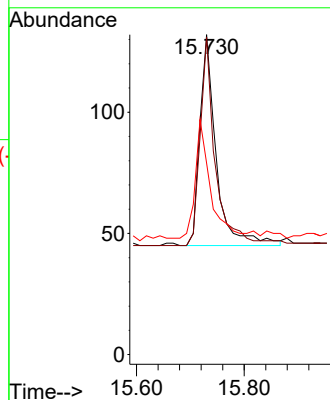
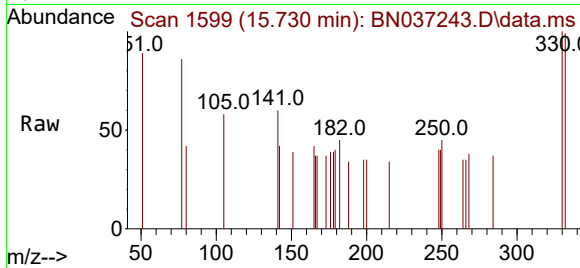




#14
2,4,6-Tribromophenol
Concen: 0.352 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

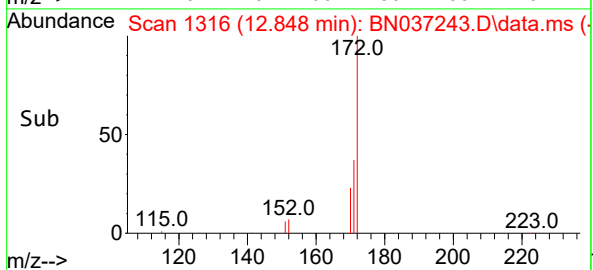
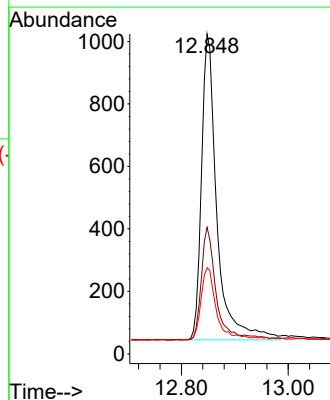
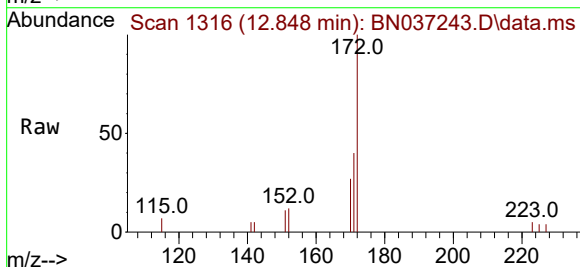
Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

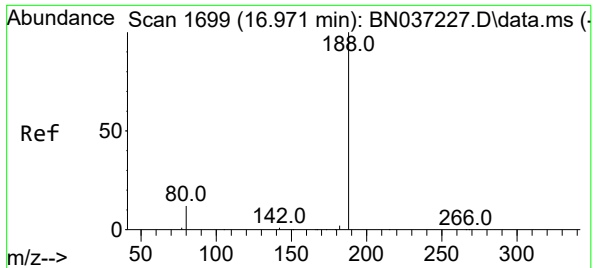
Tgt Ion:330 Resp: 184
Ion Ratio Lower Upper
330 100
332 90.2 74.9 112.3
141 52.2 45.1 67.7



#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

Tgt Ion:172 Resp: 1964
Ion Ratio Lower Upper
172 100
171 39.6 29.8 44.8
170 27.0 21.1 31.7

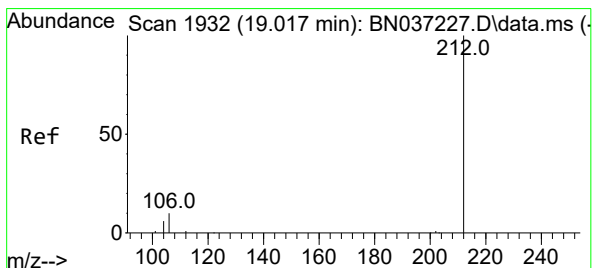
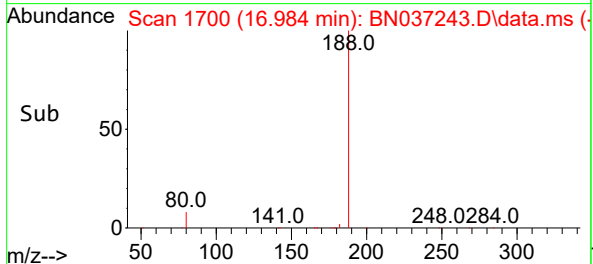
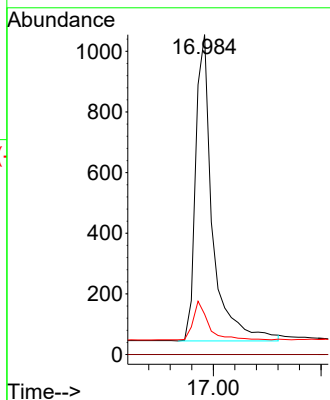
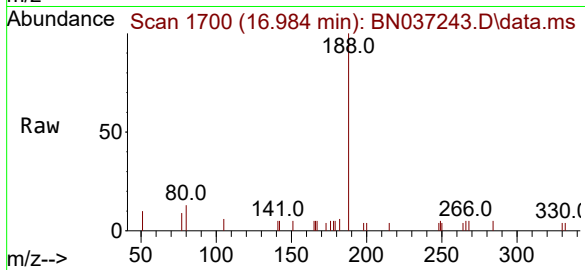




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 11
Delta R.T. 0.013 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

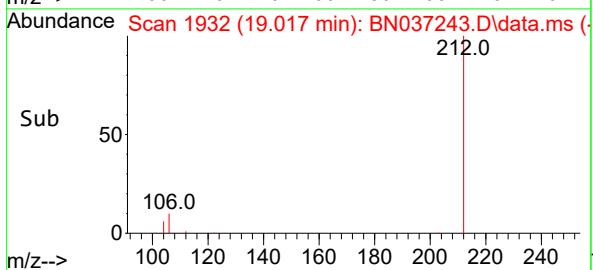
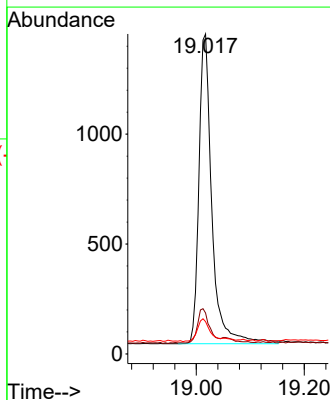
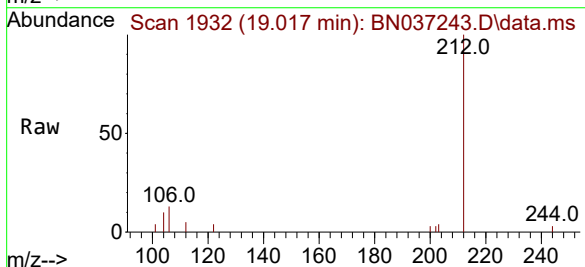
Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

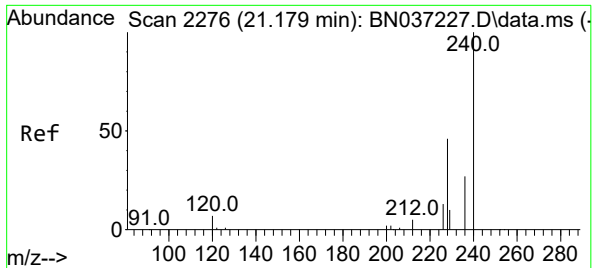
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	12.2	18.4



#27
Fluoranthene-d10
Concen: 0.409 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.1	9.3	13.9
104	7.0	5.7	8.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037243.D

Acq: 14 Jun 2025 01:44

Instrument :

BNA_N

ClientSampleId :

RW9-MW01S-20250606

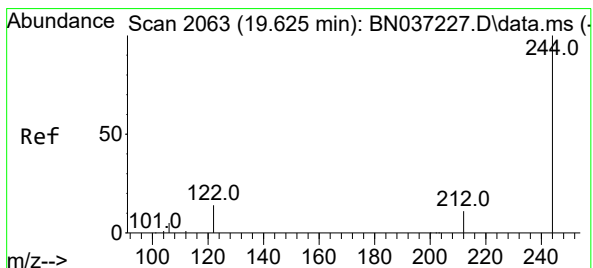
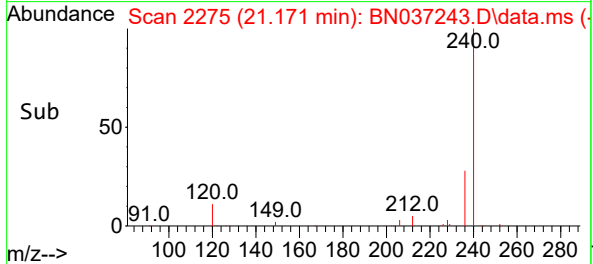
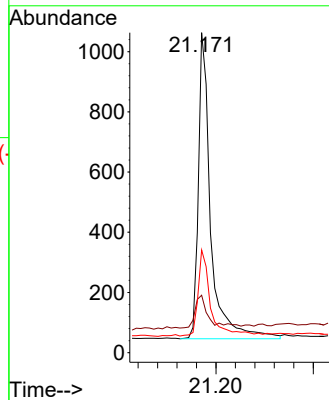
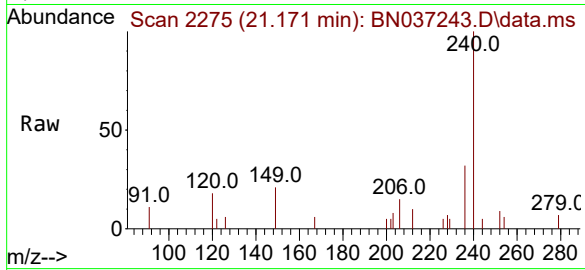
Tgt Ion:240 Resp: 1783

Ion Ratio Lower Upper

240 100

120 18.0 11.3 16.9#

236 32.1 24.4 36.6



#31

Terphenyl-d14

Concen: 0.499 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.004 min

Lab File: BN037243.D

Acq: 14 Jun 2025 01:44

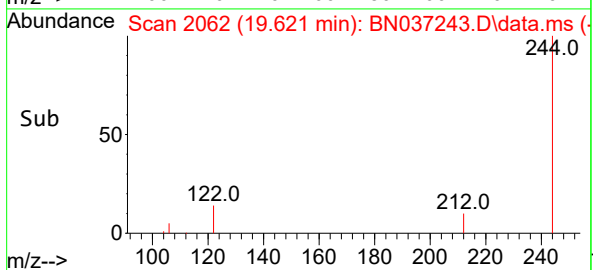
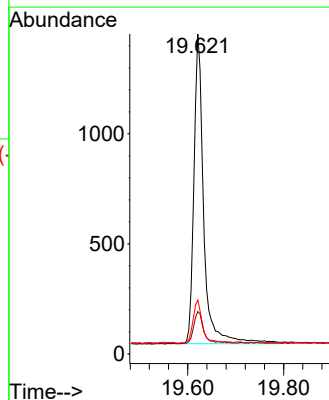
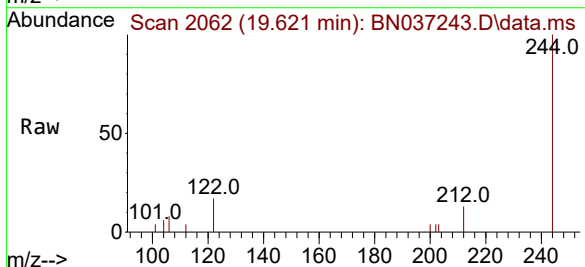
Tgt Ion:244 Resp: 2010

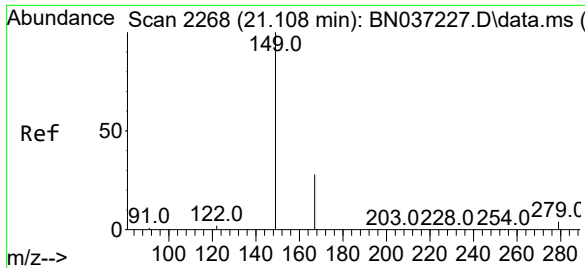
Ion Ratio Lower Upper

244 100

212 13.2 12.2 18.2

122 16.9 14.3 21.5

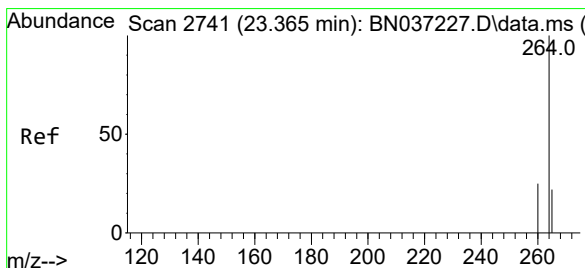
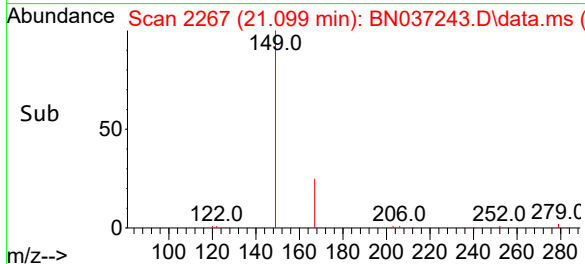
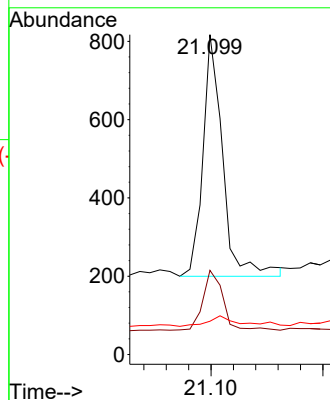
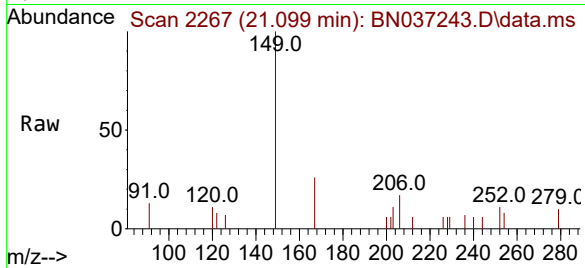




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.169 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.009 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

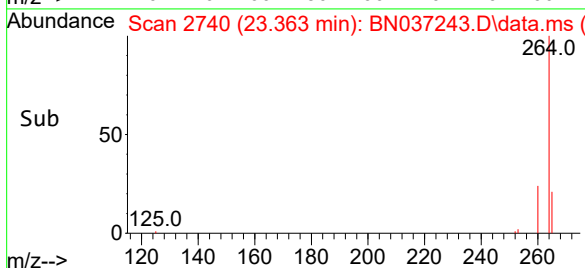
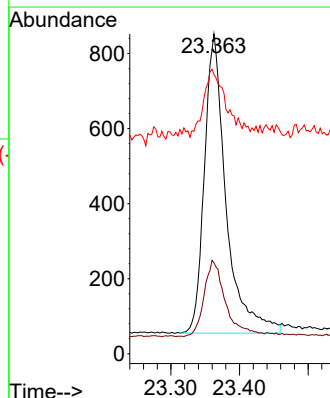
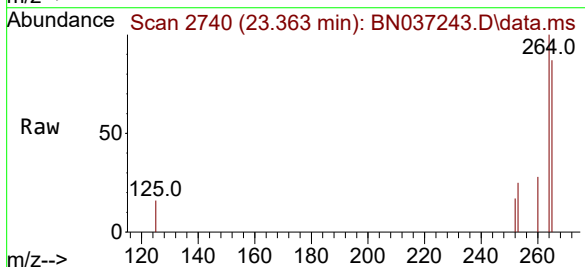
Instrument :
BNA_N
ClientSampleId :
RW9-MW01S-20250606

Tgt Ion:149 Resp: 759
Ion Ratio Lower Upper
149 100
167 25.0 21.3 31.9
279 7.0 3.3 4.9#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 2740
Delta R.T. -0.003 min
Lab File: BN037243.D
Acq: 14 Jun 2025 01:44

Tgt Ion:264 Resp: 1754
Ion Ratio Lower Upper
264 100
260 28.4 22.8 34.2
265 87.3 66.4 99.6





CALIBRATION SUMMARY

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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN061325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 13 18:43:34 2025
Response Via : Initial Calibration

Calibration Files

0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.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	0.683	0.525	0.535	0.549	0.515	0.486	0.549	12.56	
3)	n-Nitrosodimet...	1.357	1.277	1.208	1.295	1.232	1.134	1.250	6.18	
4) S	2-Fluorophenol	1.043	1.026	0.942	0.907	0.996	0.990	0.972	0.982	4.80
5) S	Phenol-d6	0.875	0.937	0.963	0.986	1.148	1.166	1.173	1.035	11.94
6)	bis(2-Chloroet...	0.768	0.709	0.870	0.955	1.086	1.064	1.040	0.927	16.08
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.366	0.304	0.384	0.377	0.440	0.442	0.453	0.395	13.53
9)	Naphthalene	1.186	1.153	1.133	1.109	1.208	1.161	1.159	1.158	2.83
10)	Hexachlorobuta...	0.299	0.290	0.302	0.271	0.285	0.267	0.258	0.282	5.91
11) SURR2	Methylnaphth...	0.496	0.504	0.557	0.520	0.576	0.552	0.553	0.537	5.64
12)	2-Methylnaphth...	0.631	0.634	0.704	0.699	0.769	0.746	0.745	0.704	7.77
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.126	0.146	0.171	0.171	0.188	0.183	0.178	0.166	13.42
15) S	2-Fluorobiphenyl	1.566	1.530	1.699	1.658	1.822	1.777	1.715	1.681	6.31
16)	Acenaphthylene	1.907	1.870	1.870	1.915	2.077	2.062	2.021	1.960	4.61
17)	Acenaphthene	1.242	1.209	1.240	1.230	1.341	1.318	1.277	1.265	3.87
18)	Fluorene	1.544	1.509	1.593	1.610	1.757	1.714	1.649	1.625	5.46
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.074	0.066	0.086	0.100	0.110	0.116	0.092		21.86
21)	4-Bromophenyl-...	0.248	0.248	0.244	0.256	0.278	0.276	0.273	0.261	5.65
22)	Hexachlorobenzene	0.342	0.318	0.311	0.284	0.297	0.284	0.279	0.302	7.65
23)	Atrazine	0.223	0.229	0.222	0.228	0.241	0.241	0.244	0.232	3.84
24)	Pentachlorophenol	0.139	0.124	0.137	0.154	0.162	0.171	0.148		11.86
25)	Phenanthrene	1.253	1.225	1.186	1.238	1.324	1.328	1.327	1.269	4.54
26)	Anthracene	1.094	1.079	1.080	1.138	1.221	1.257	1.261	1.161	7.13
27) SURR	Fluoranthene-d10	1.015	1.073	1.053	1.017	1.053	1.043	1.073	1.046	2.27
28)	Fluoranthene	1.470	1.508	1.412	1.449	1.509	1.510	1.537	1.485	2.94
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.850	1.740	1.962	1.849	2.016	1.892	1.854	1.881	4.74
31) S	Terphenyl-d14	0.815	0.845	0.946	0.871	0.990	0.939	0.924	0.904	6.89
32)	Benzo(a)anthra...	1.175	1.204	1.225	1.332	1.512	1.507	1.499	1.351	11.36
33)	Chrysene	1.783	1.722	1.695	1.617	1.711	1.633	1.616	1.683	3.73
34)	Bis(2-ethylhex...	1.104	1.024	1.000	1.006	0.942	0.960	1.006		5.65
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN061325.M

36)	Indeno(1,2,3-c...	1.506	1.503	1.507	1.486	1.718	1.757	1.813	1.613	8.87
37)	Benzo(b)fluora...	1.309	1.288	1.376	1.456	1.618	1.576	1.620	1.463	9.81
38)	Benzo(k)fluora...	1.835	1.503	1.628	1.667	1.757	1.704	1.728	1.689	6.24
39) C	Benzo(a)pyrene	1.271	1.208	1.234	1.298	1.407	1.382	1.413	1.316	6.42
40)	Dibenzo(a,h)an...	1.106	1.102	1.049	1.118	1.362	1.425	1.427	1.227	13.76
41)	Benzo(g,h,i)pe...	1.504	1.460	1.441	1.386	1.557	1.566	1.557	1.496	4.63

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 18:36:23 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 13 18:34:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	742m	0.109	ng	
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	447m	0.091	ng	
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

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

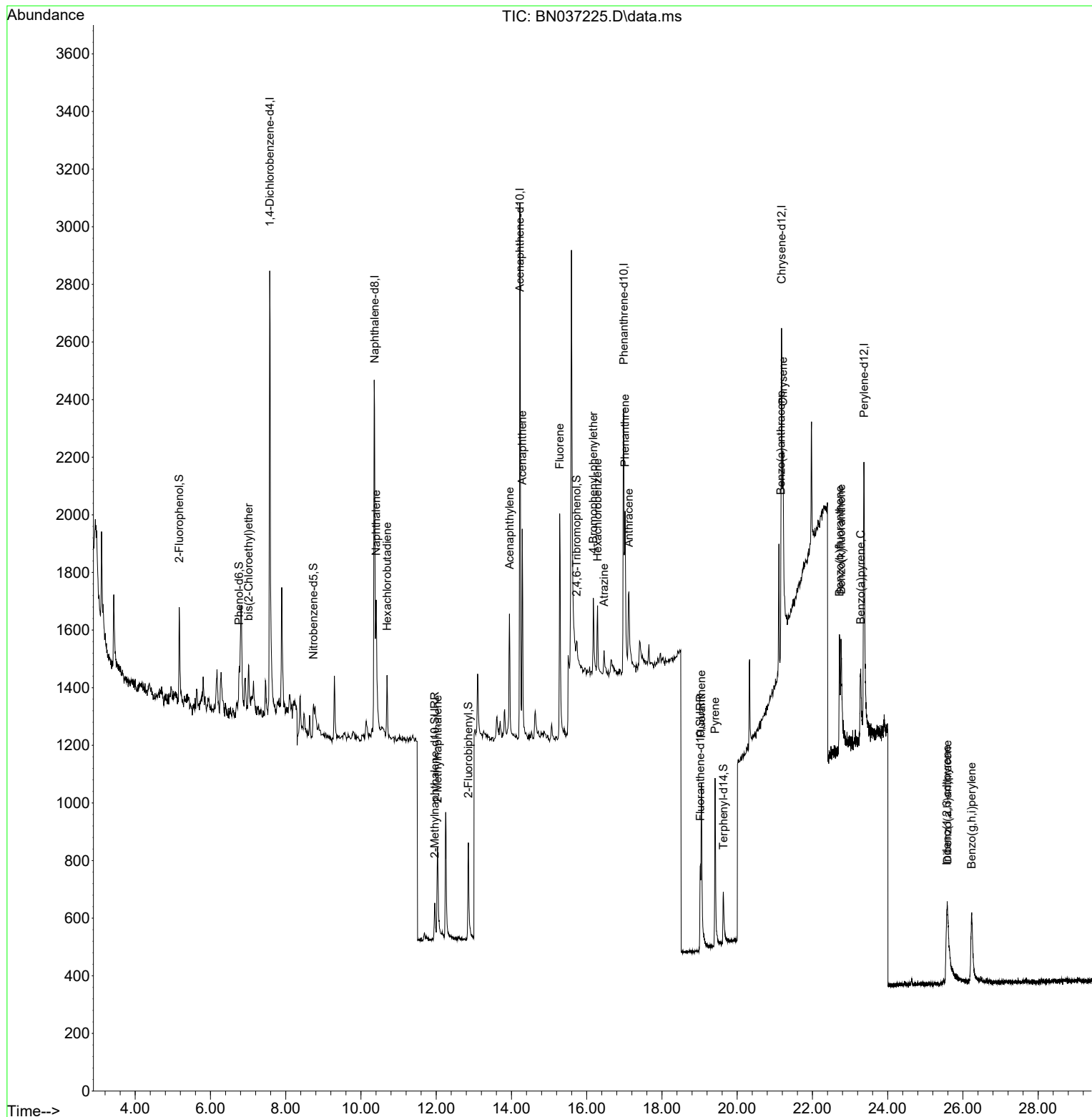
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Data File : BN037225.D
Acq On : 13 Jun 2025 13:33
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

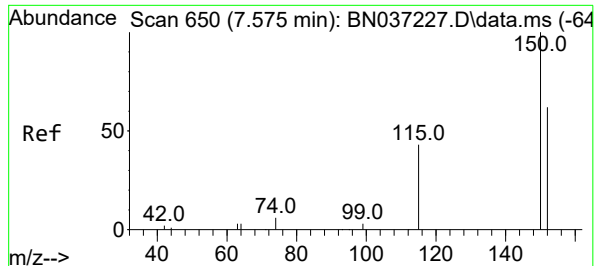
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

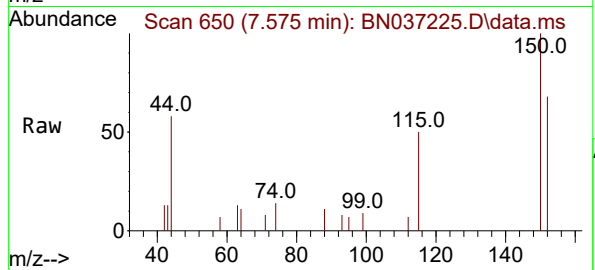
Quant Time: Jun 13 18:36:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

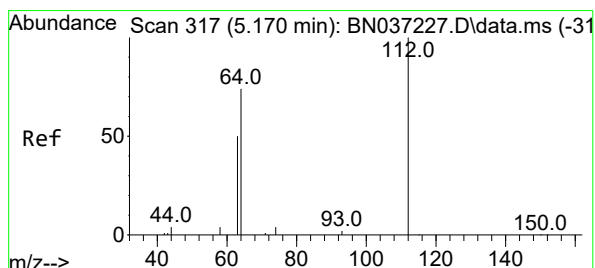
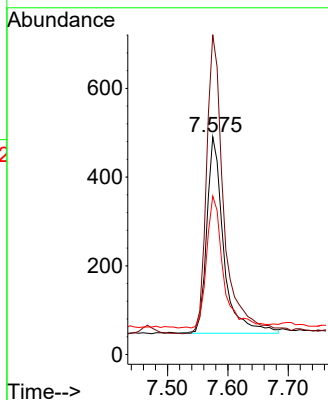
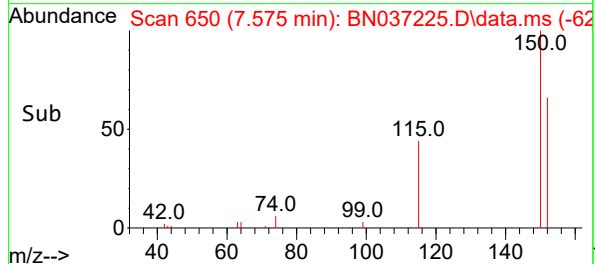
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 859
Ion Ratio Lower Upper
152 100
150 146.8 125.2 187.8
115 72.7 58.4 87.6

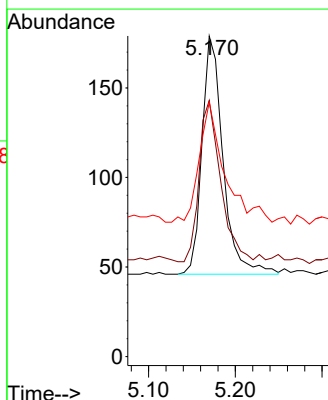
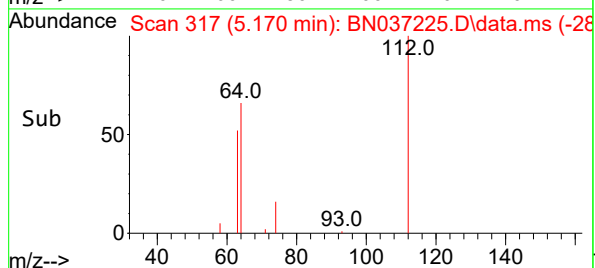
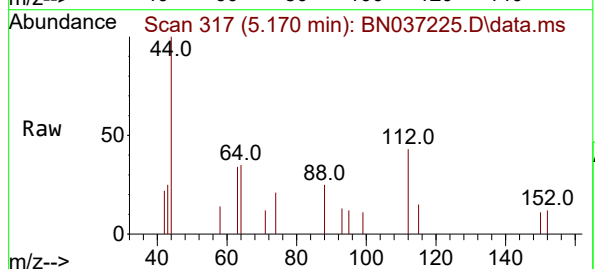
Manual Integrations
APPROVED

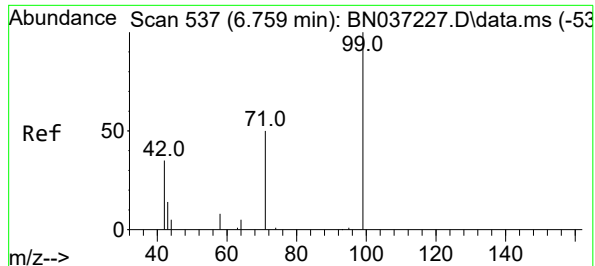
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:112 Resp: 224
Ion Ratio Lower Upper
112 100
64 69.2 57.2 85.8
63 65.6 39.8 59.6#





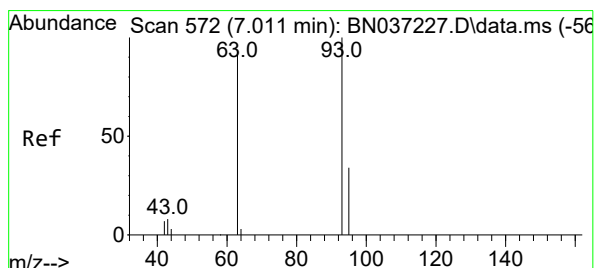
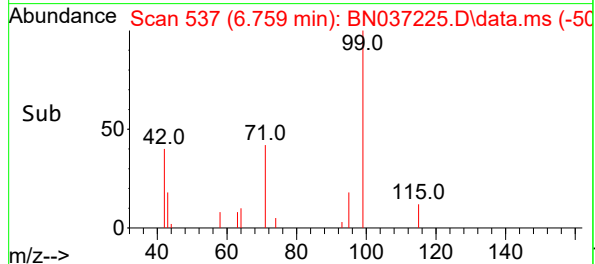
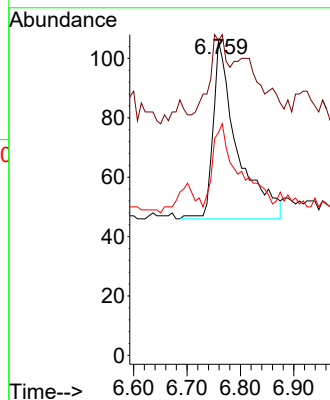
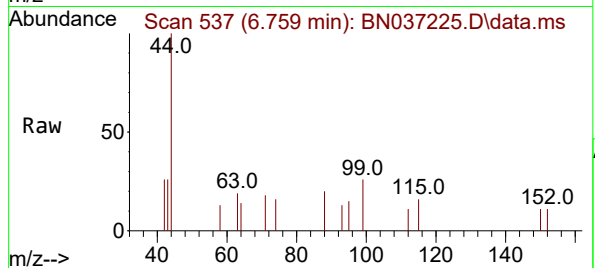
#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 188
Ion Ratio Lower Upper
99 100
42 33.0 36.2 54.4
71 51.1 42.4 63.6

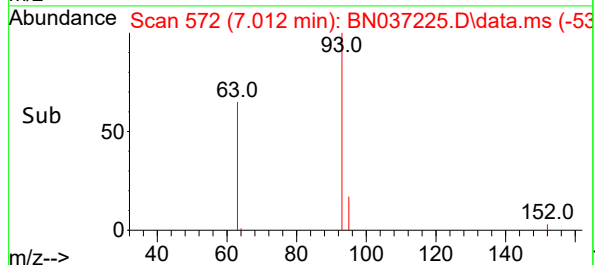
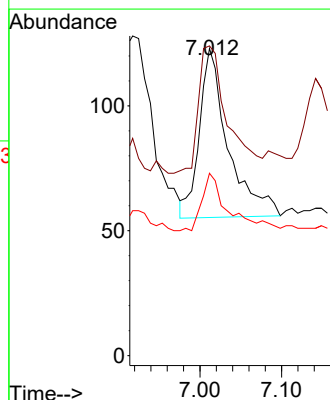
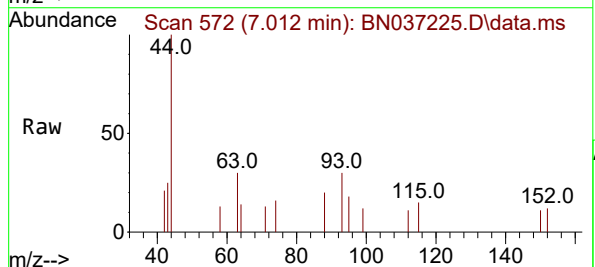
Manual Integrations
APPROVED

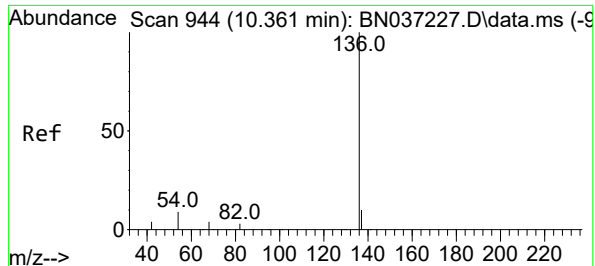
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

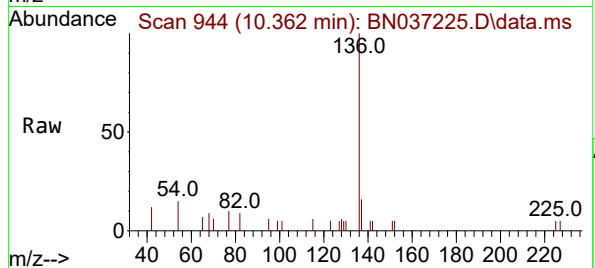
Tgt Ion: 93 Resp: 165
Ion Ratio Lower Upper
93 100
63 76.4 75.2 112.8
95 30.9 28.3 42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

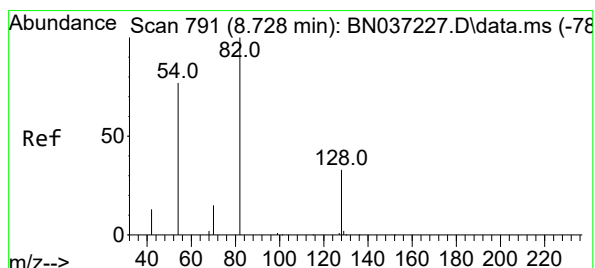
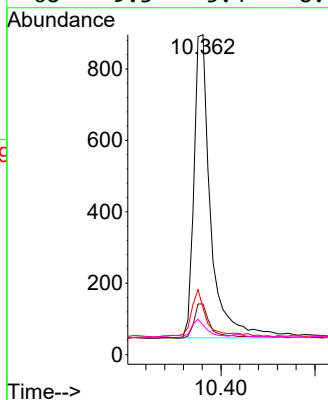
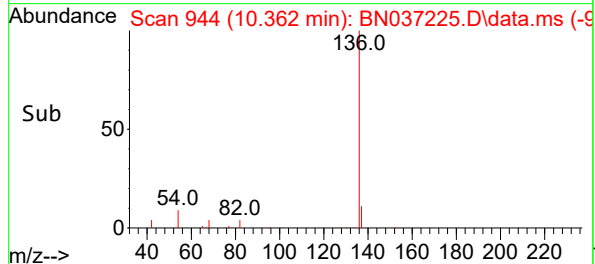
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 136 Resp: 209
Ion Ratio Lower Upper
136 100
137 15.8 10.6 15.8
54 14.6 9.2 13.8
68 9.3 5.4 8.0#

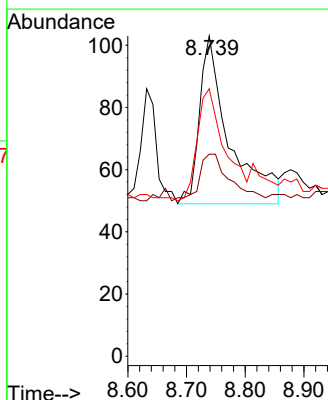
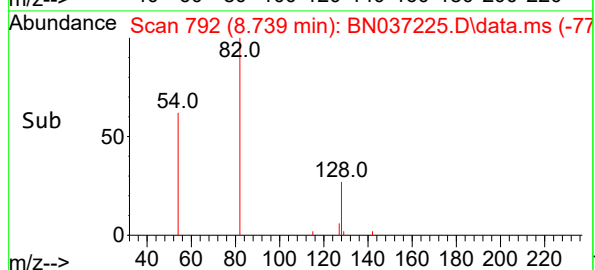
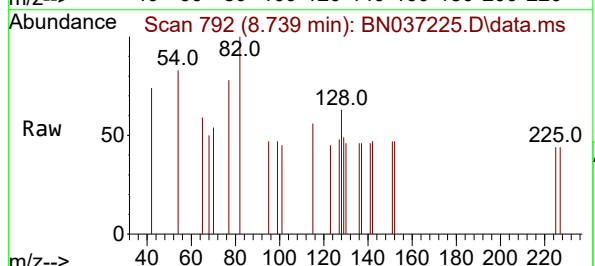
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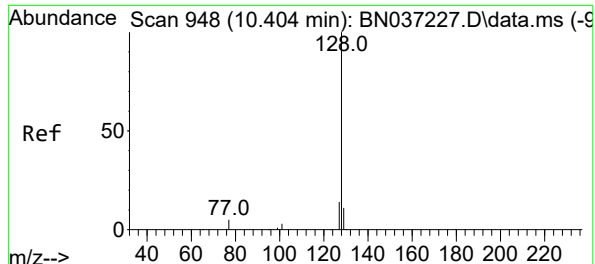
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 82 Resp: 192
Ion Ratio Lower Upper
82 100
128 63.1 31.2 46.8#
54 83.5 63.3 94.9





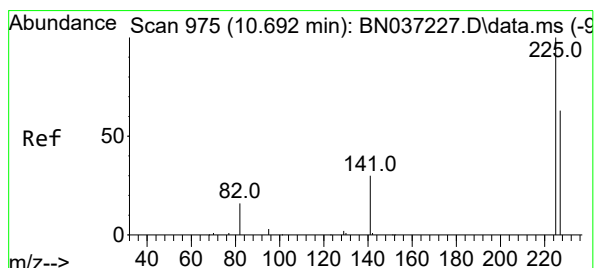
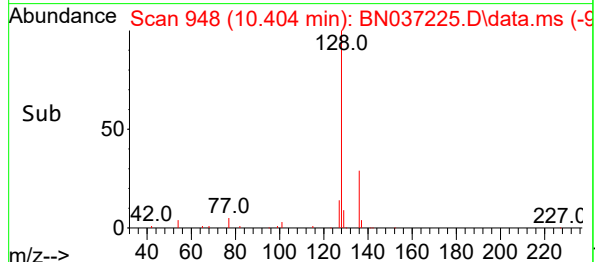
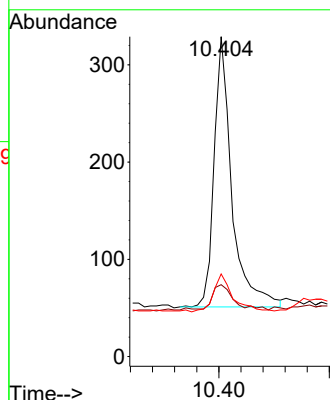
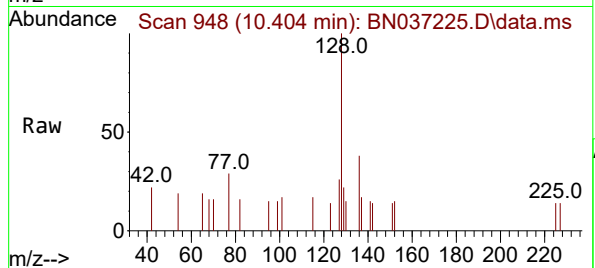
#9
Naphthalene
Concen: 0.102 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 62.0
Ion Ratio Lower Upper
128 100
129 22.5 10.7 16.1
127 25.8 12.6 19.0

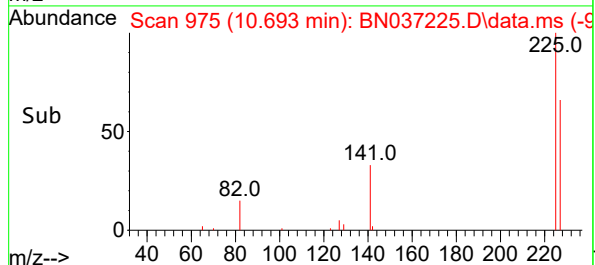
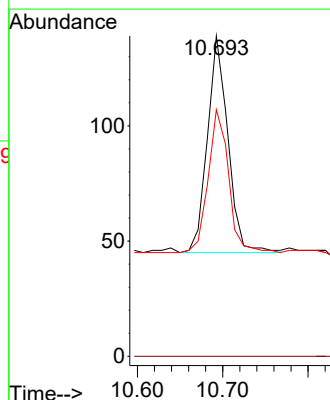
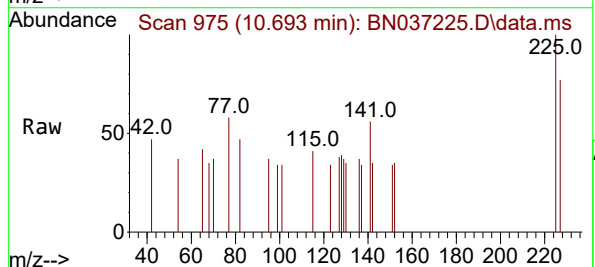
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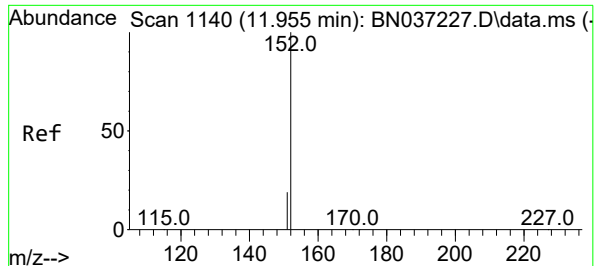
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.106 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

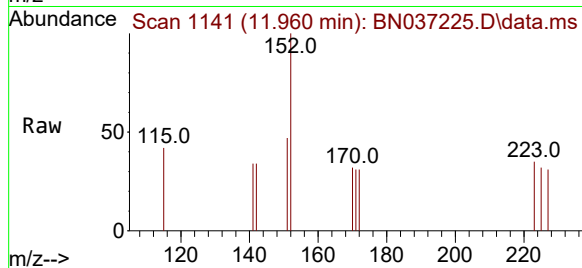
Tgt Ion:225 Resp: 157
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.6 49.2 73.8





#11
2-Methylnaphthalene-d10
Concen: 0.092 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

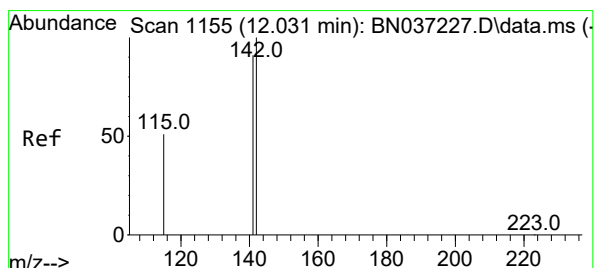
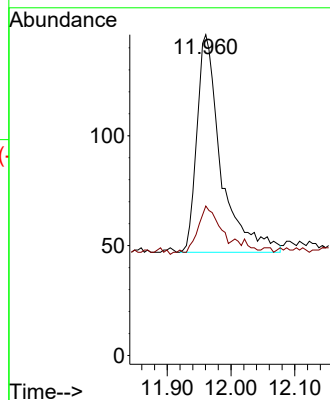
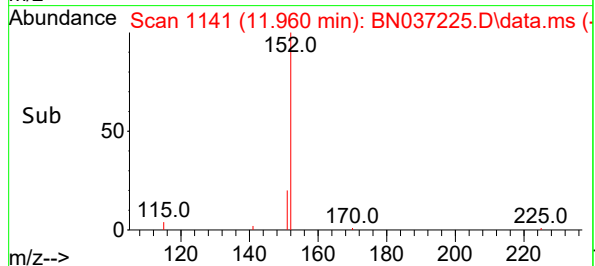
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 260
Ion Ratio Lower Upper
152 100
151 20.8 17.9 26.9

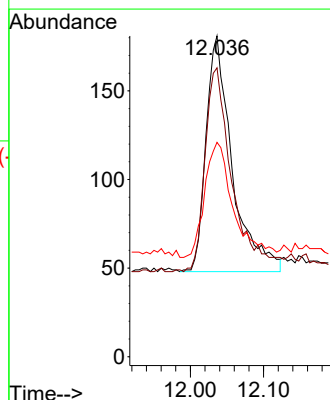
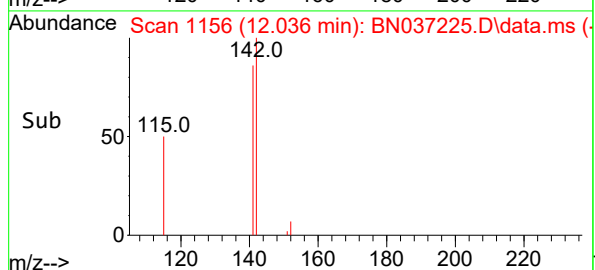
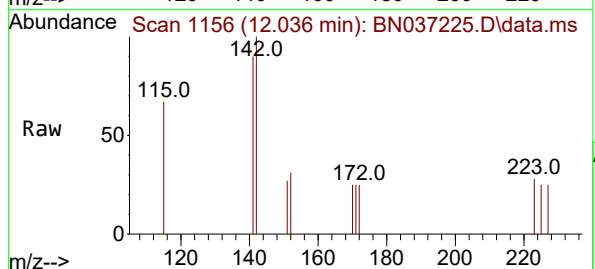
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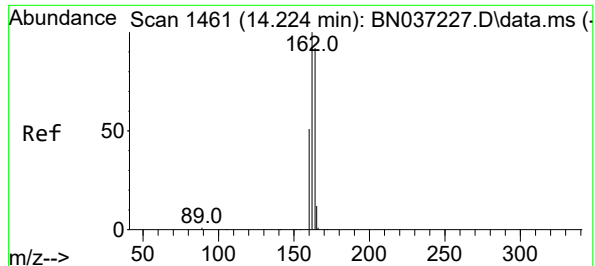
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

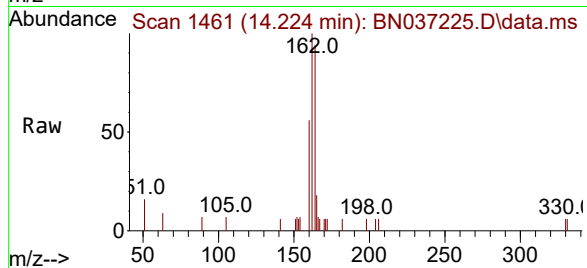
Tgt Ion:142 Resp: 331
Ion Ratio Lower Upper
142 100
141 90.1 73.0 109.6
115 66.9 43.3 64.9#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

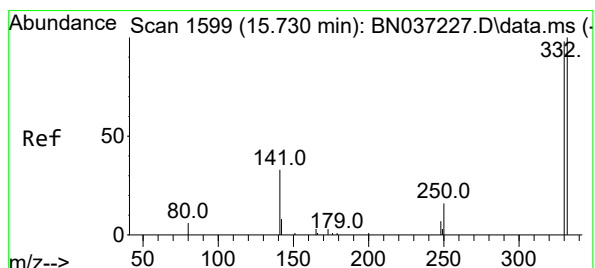
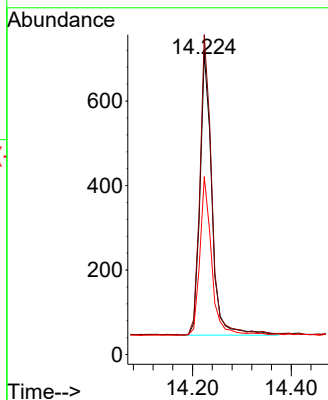
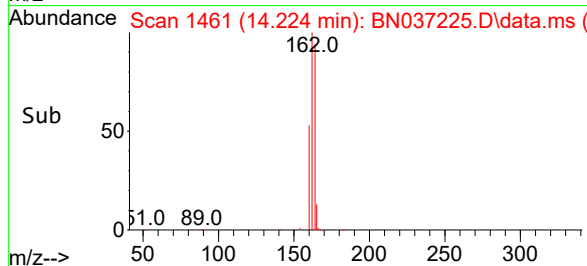
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



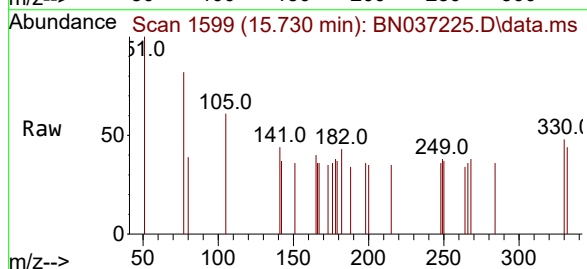
Tgt Ion:164 Resp: 1114
Ion Ratio Lower Upper
164 100
162 106.2 86.7 130.1
160 59.0 45.8 68.6

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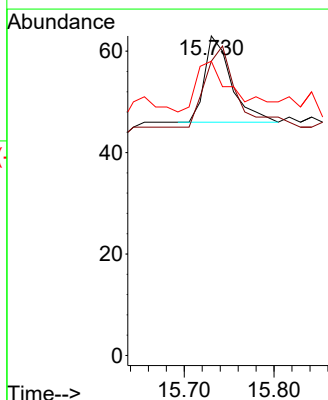
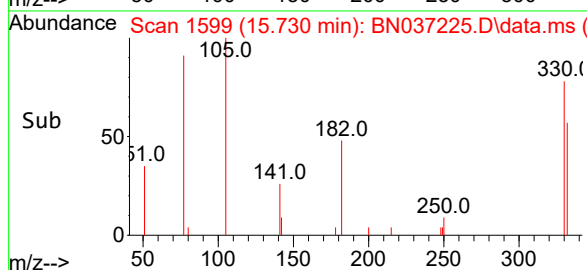
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

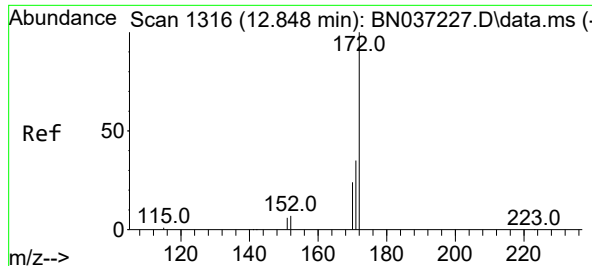


#14
2,4,6-Tribromophenol
Concen: 0.076 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33



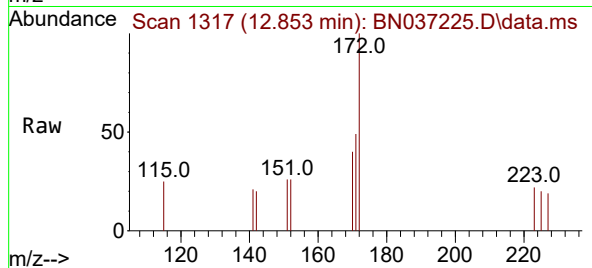
Tgt Ion:330 Resp: 35
Ion Ratio Lower Upper
330 100
332 111.4 74.9 112.3
141 82.9 45.1 67.7#





#15
2-Fluorobiphenyl
Concen: 0.093 ng
RT: 12.853 min Scan# 1316
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

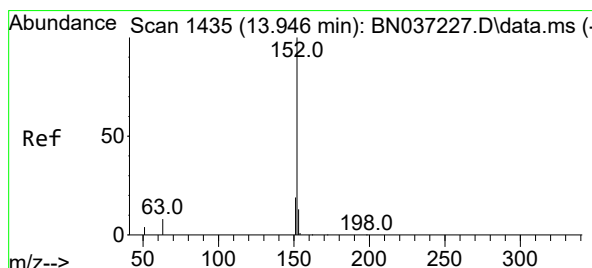
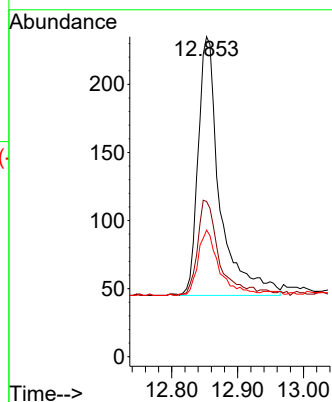
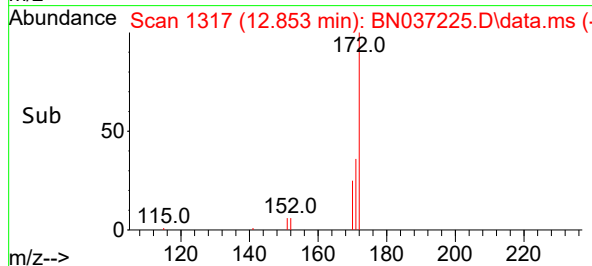
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:172 Resp: 430
Ion Ratio Lower Upper
172 100
171 48.5 29.8 44.8
170 39.6 21.1 31.7

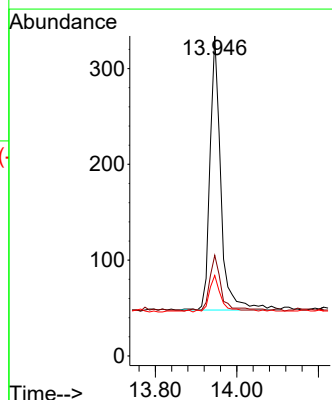
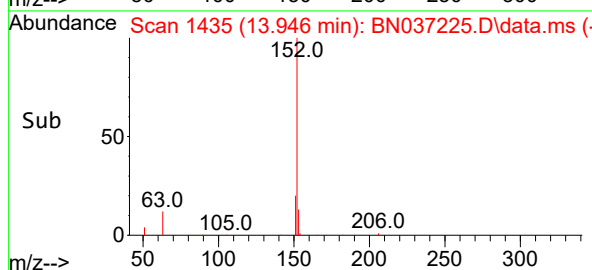
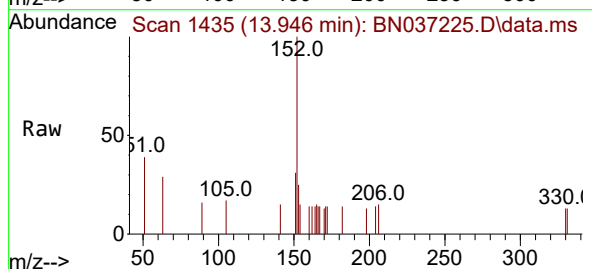
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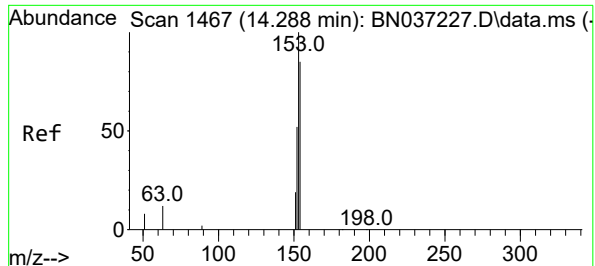
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 531
Ion Ratio Lower Upper
152 100
151 22.4 15.7 23.5
153 14.9 10.7 16.1





#17

Acenaphthene

Concen: 0.098 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

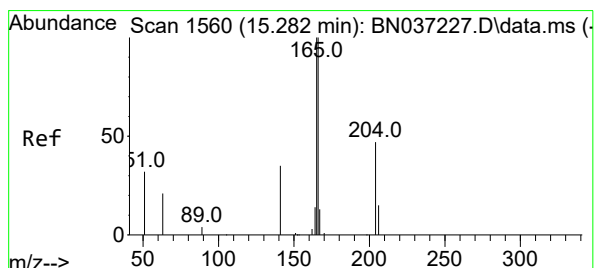
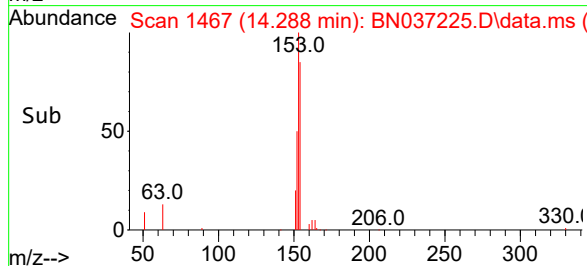
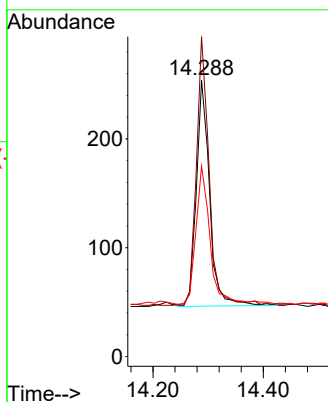
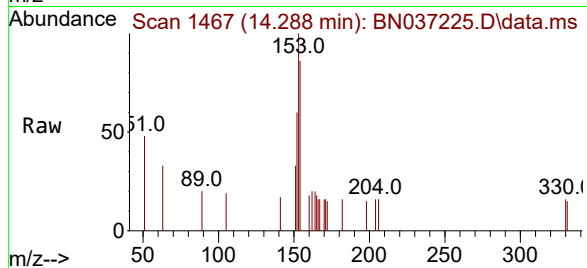
Tgt Ion:	154	Resp:	340
Ion	Ratio	Lower	Upper
154	100		
153	114.5	94.6	141.8
152	65.9	49.6	74.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/16/2025



#18

Fluorene

Concen: 0.095 ng

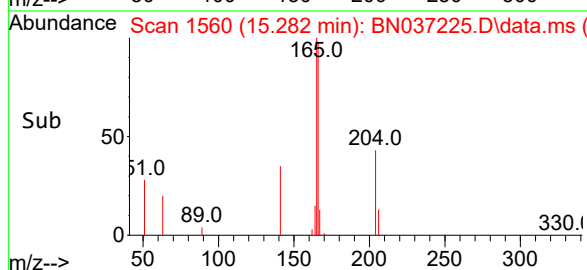
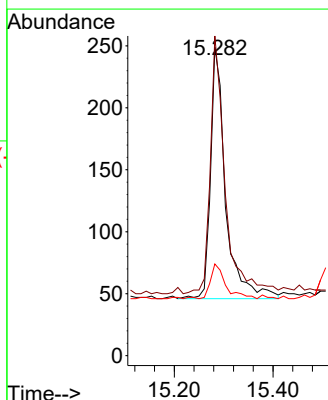
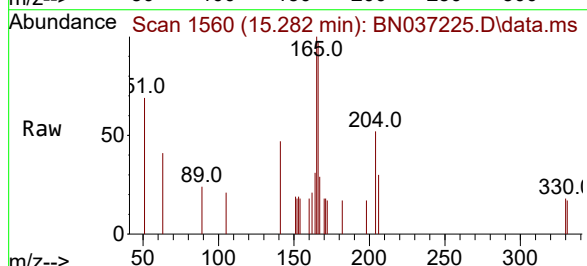
RT: 15.282 min Scan# 1560

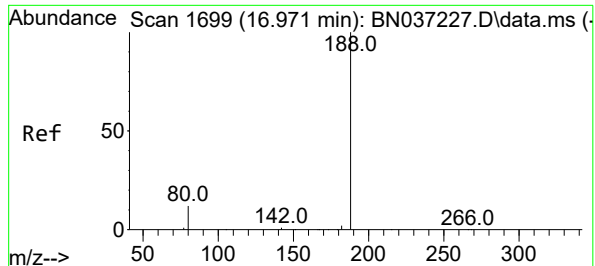
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	166	Resp:	430
Ion	Ratio	Lower	Upper
166	100		
165	99.3	79.8	119.6
167	14.0	10.8	16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

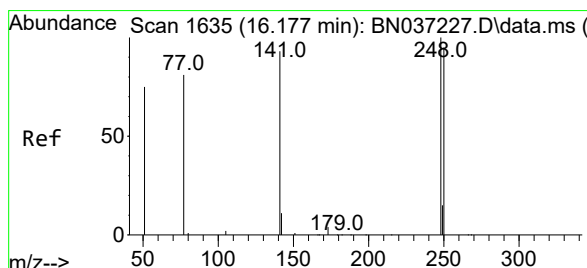
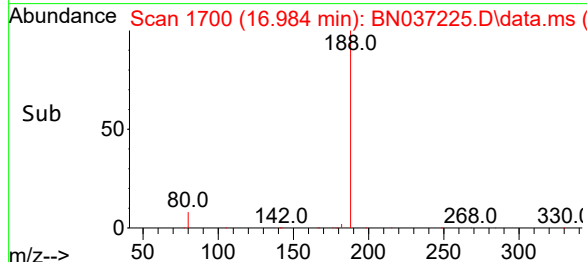
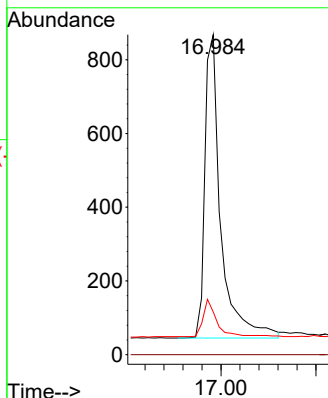
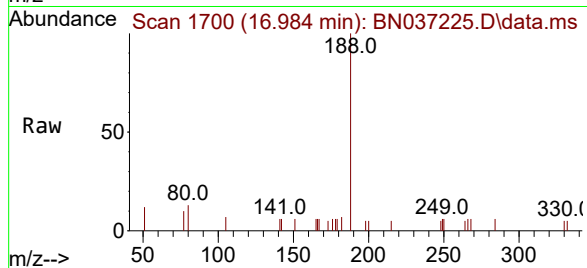
ClientSampleId :

SSTDICC0.1

Tgt Ion:	188	Resp:	1910
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.4	12.2	18.4

Manual Integrations
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Supervised By :Jagrut Upadhyay 06/16/2025



#21

4-Bromophenyl-phenylether

Concen: 0.095 ng

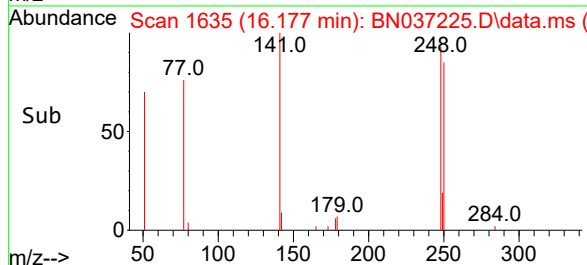
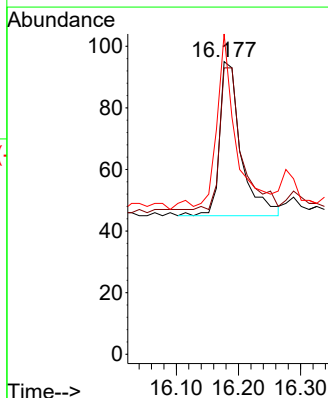
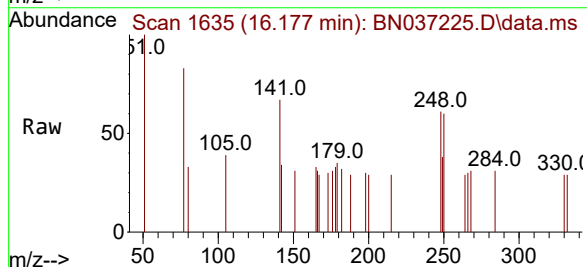
RT: 16.177 min Scan# 1635

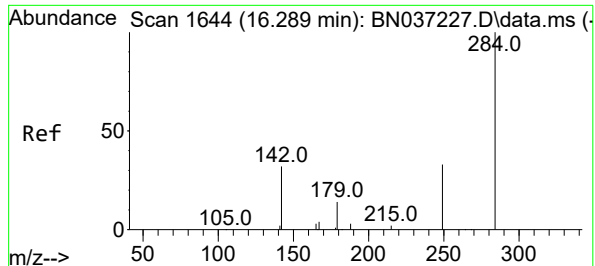
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	248	Resp:	119
Ion Ratio	Lower	Upper	
248	100		
250	97.9	76.8	115.2
141	109.5	75.6	113.4





#22

Hexachlorobenzene

Concen: 0.113 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

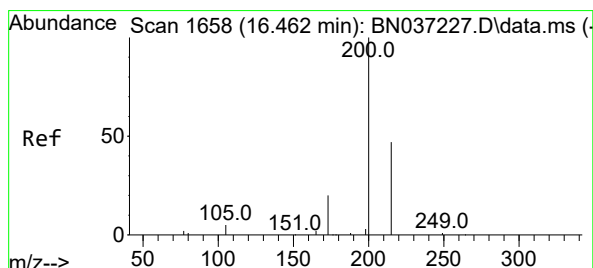
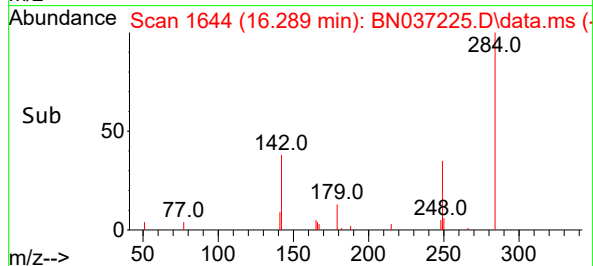
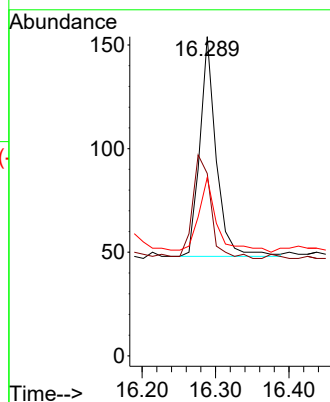
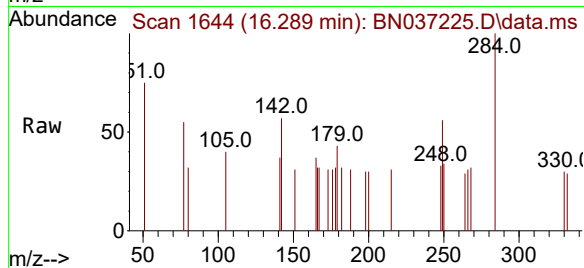
ClientSampleId :

SSTDIC0.1

Tgt Ion:	284	Resp:	164
Ion Ratio	Lower	Upper	
284	100		
142	52.4	43.8	65.6
249	38.4	28.4	42.6

Manual Integrations
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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#23

Atrazine

Concen: 0.096 ng

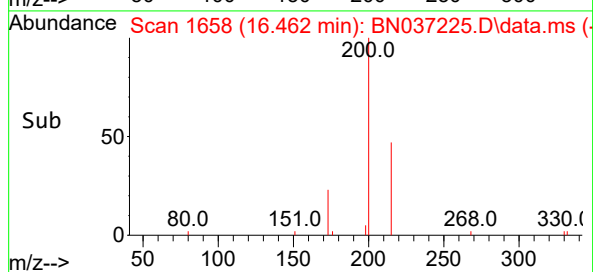
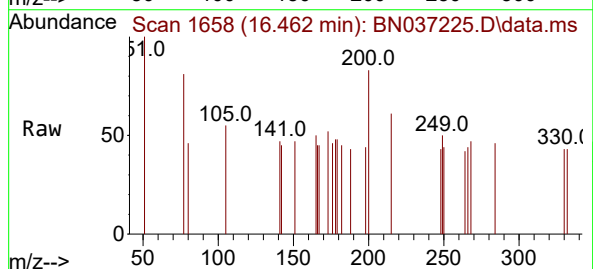
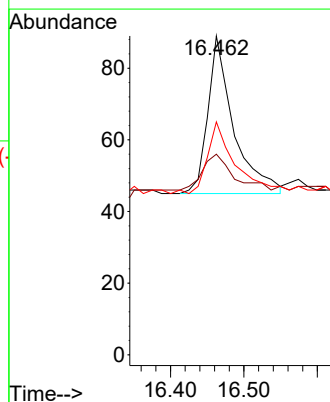
RT: 16.462 min Scan# 1658

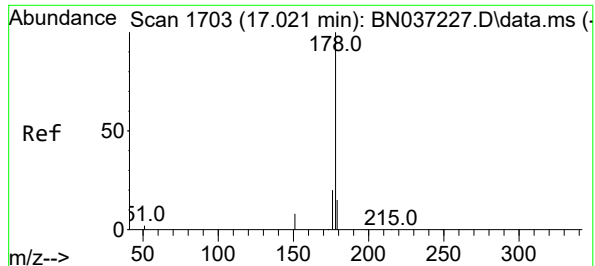
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	200	Resp:	107
Ion Ratio	Lower	Upper	
200	100		
173	62.9	25.1	37.7#
215	73.0	43.7	65.5#





#25

Phenanthrene

Concen: 0.099 ng

RT: 17.021 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

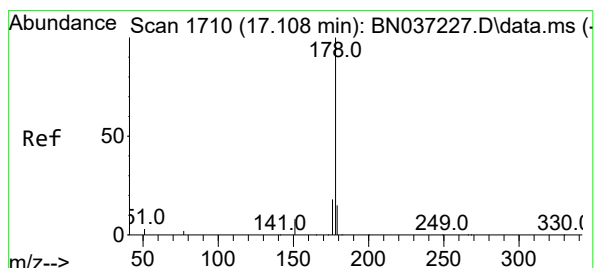
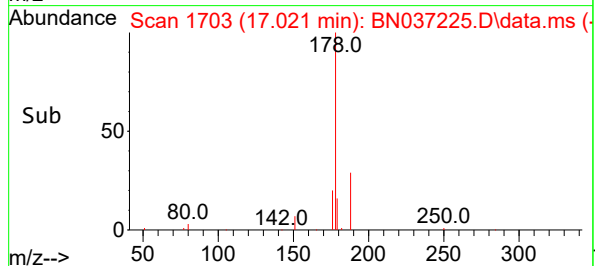
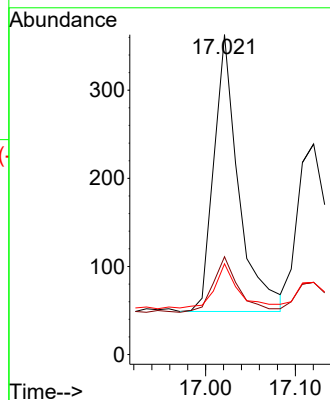
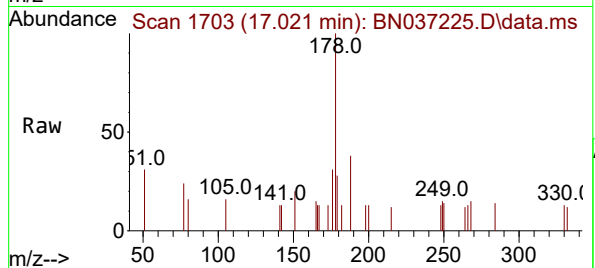
ClientSampleId :

SSTDICC0.1

Tgt Ion:	178	Resp:	600
Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.3	24.5
179	15.8	12.6	18.8

Manual Integrations
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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#26

Anthracene

Concen: 0.094 ng

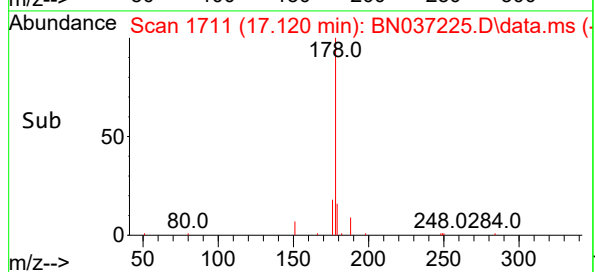
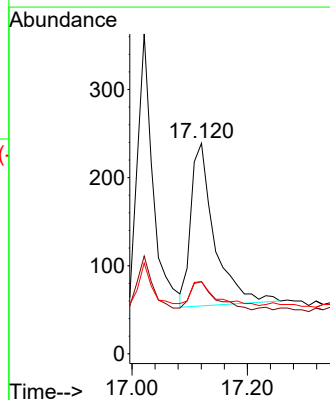
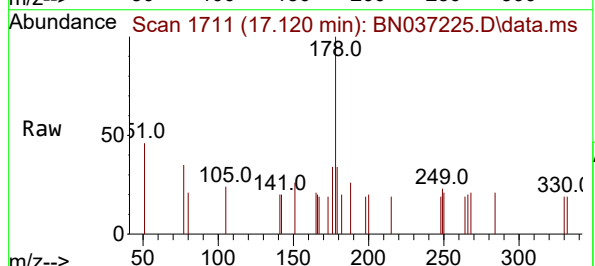
RT: 17.120 min Scan# 1711

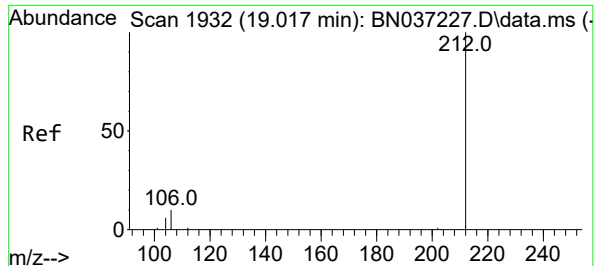
Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	178	Resp:	524
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.1	12.4	18.6





#27

Fluoranthene-d10

Concen: 0.097 ng

RT: 19.021 min Scan# 1933

Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

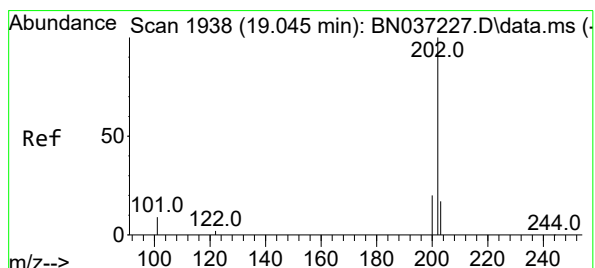
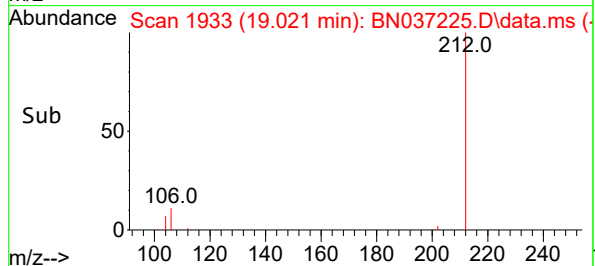
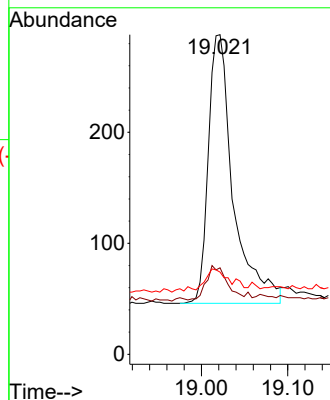
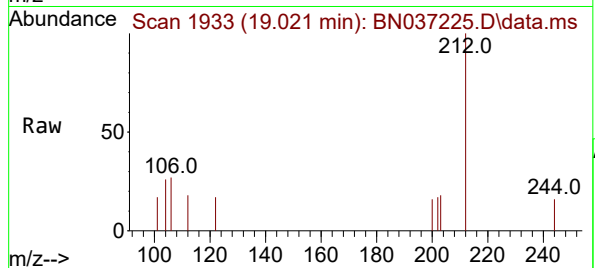
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.5	9.3	13.9
104	9.7	5.7	8.5

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

#28

Fluoranthene

Concen: 0.099 ng

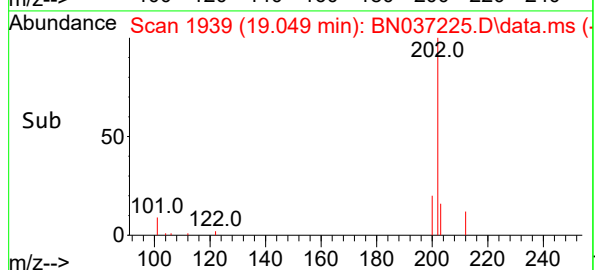
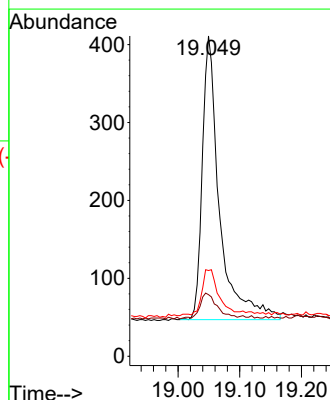
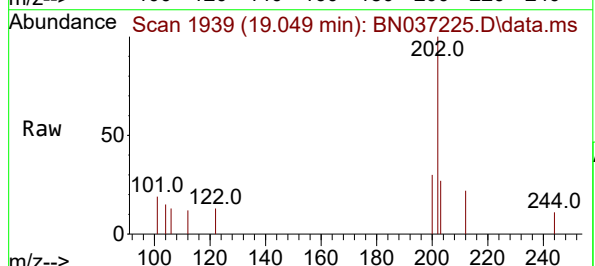
RT: 19.049 min Scan# 1939

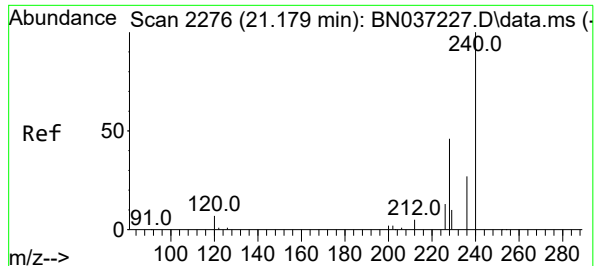
Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion	Ratio	Lower	Upper
202	100		
101	9.1	7.1	10.7
203	15.9	13.0	19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

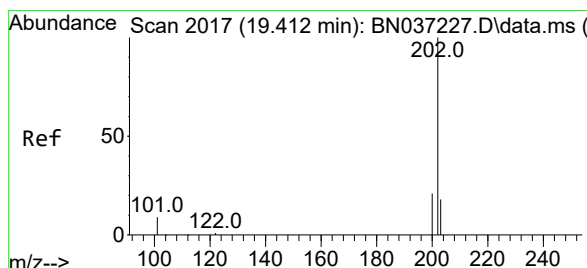
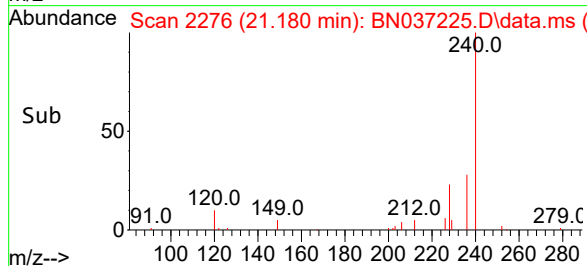
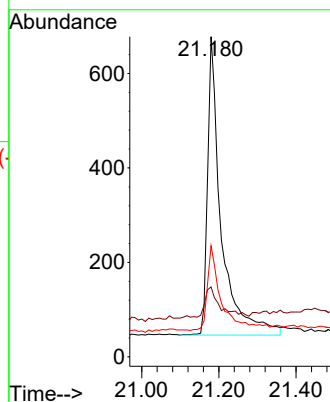
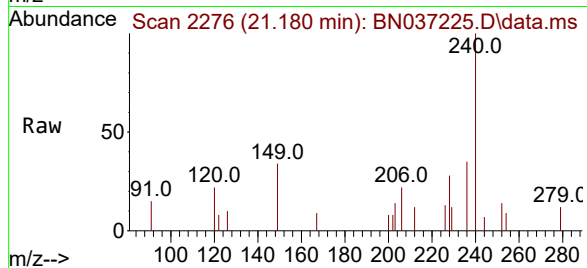
ClientSampleId :

SSTDIC0.1

Tgt Ion:240 Resp: 1540
Ion Ratio Lower Upper
240 100
120 21.8 11.3 16.9
236 34.7 24.4 36.6

Manual Integrations
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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#30

Pyrene

Concen: 0.098 ng

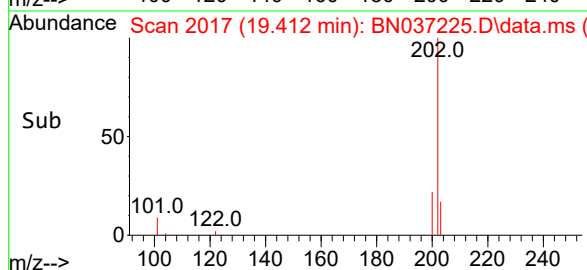
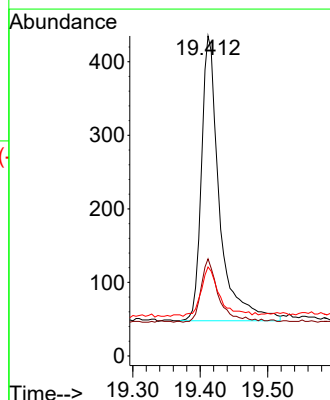
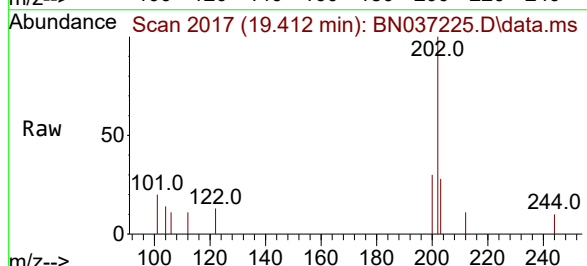
RT: 19.412 min Scan# 2017

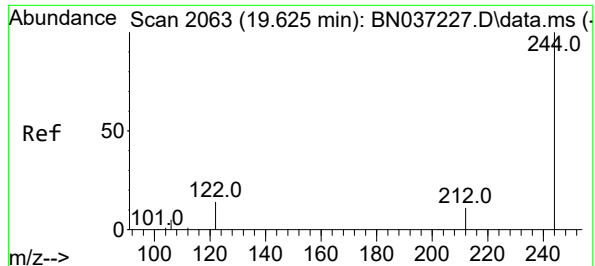
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

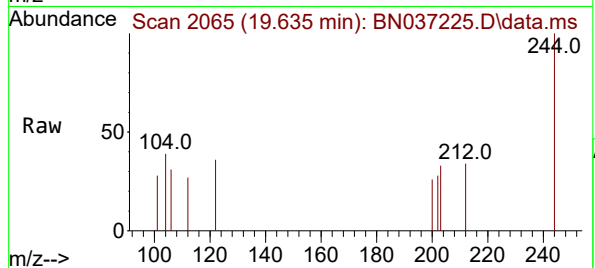
Tgt Ion:202 Resp: 715
Ion Ratio Lower Upper
202 100
200 21.8 17.2 25.8
203 18.0 14.3 21.5





#31
Terphenyl-d14
Concen: 0.090 ng
RT: 19.635 min Scan# 2065
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

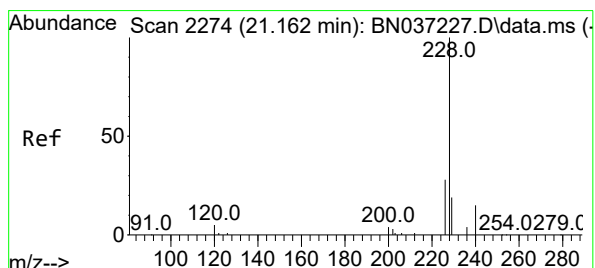
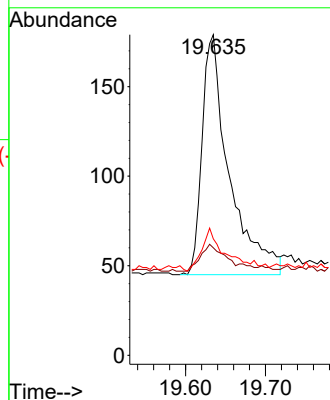
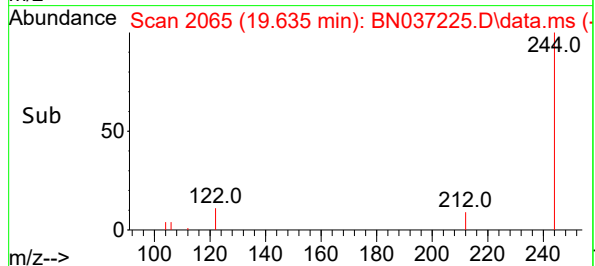
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:244 Resp: 315
Ion Ratio Lower Upper
244 100
212 33.5 12.2 18.2
122 36.3 14.3 21.5

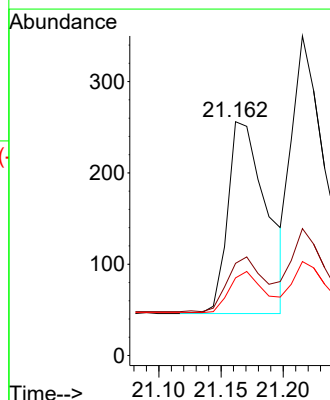
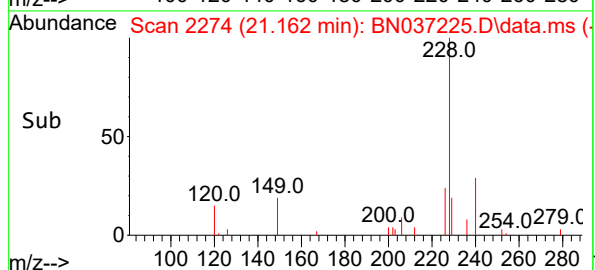
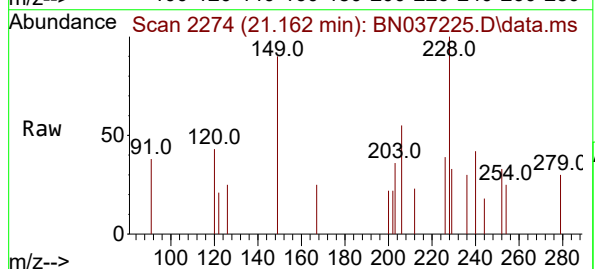
Manual Integrations
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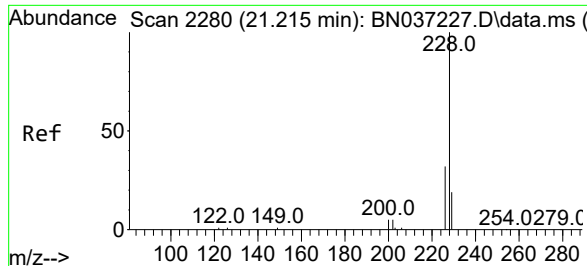
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32
Benzo(a)anthracene
Concen: 0.087 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454
Ion Ratio Lower Upper
228 100
226 39.5 23.8 35.8#
229 33.2 17.0 25.4#





#33

Chrysene

Concen: 0.106 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

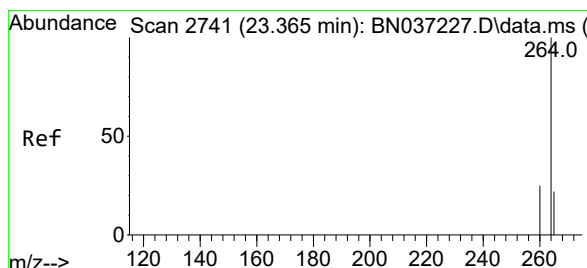
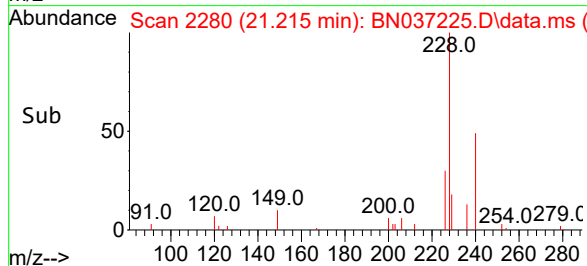
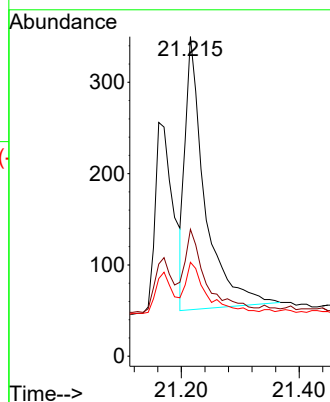
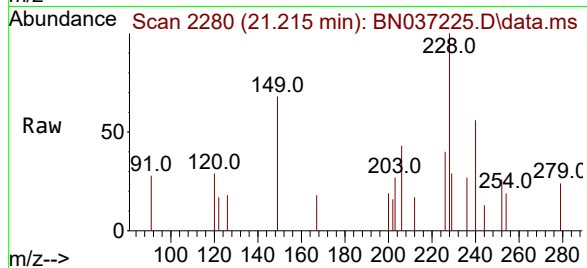
ClientSampleId :

SSTDIC0.1

Tgt Ion:	228	Resp:	689
Ion Ratio	Lower	Upper	
228	100		
226	39.7	25.8	38.6
229	29.4	17.0	25.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#35

Perylene-d12

Concen: 0.400 ng

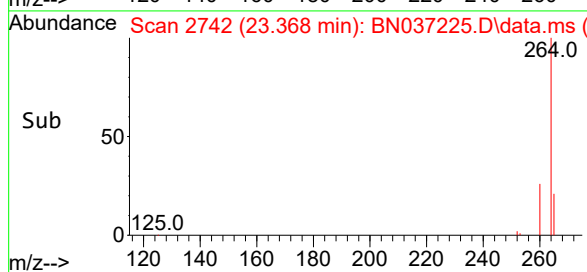
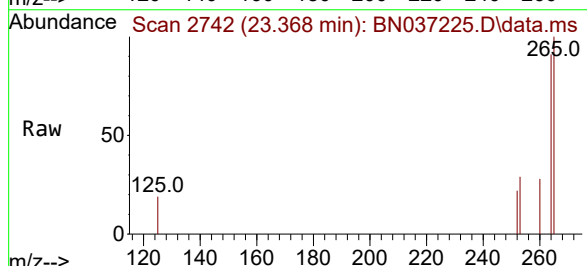
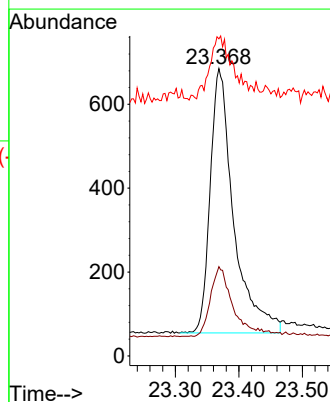
RT: 23.368 min Scan# 2742

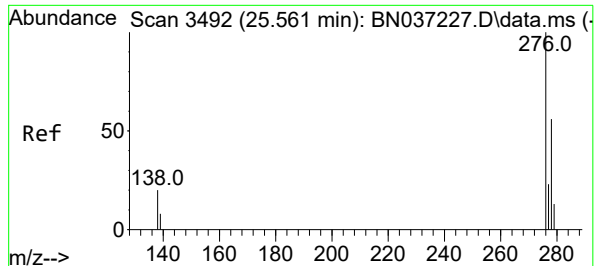
Delta R.T. 0.003 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

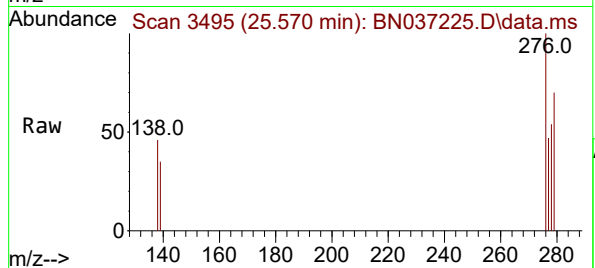
Tgt Ion:	264	Resp:	1617
Ion Ratio	Lower	Upper	
264	100		
260	31.1	22.8	34.2
265	110.4	66.4	99.6





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.570 min Scan# 3492
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

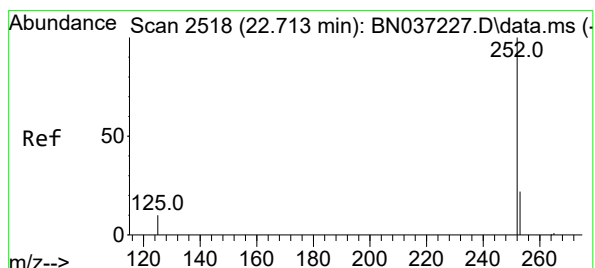
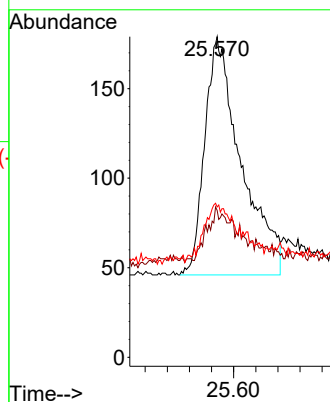
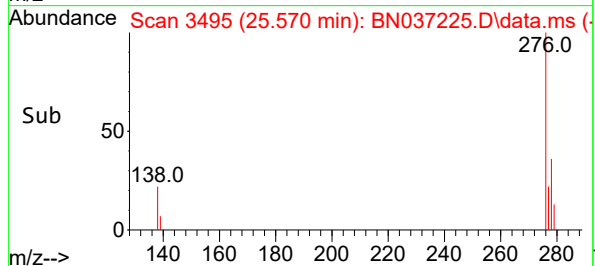
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



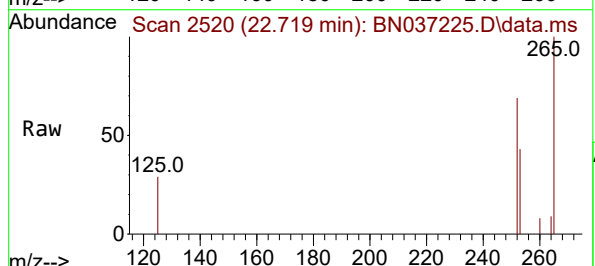
Tgt Ion:276 Resp: 609
Ion Ratio Lower Upper
276 100
138 1.3 16.8 25.2#
277 18.6 19.5 29.3#

Manual Integrations
APPROVED

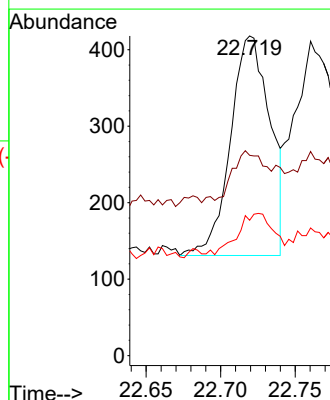
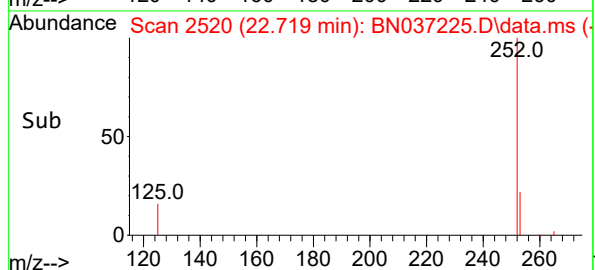
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

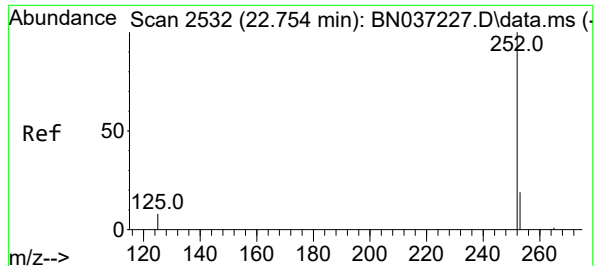


#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.719 min Scan# 2520
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33



Tgt Ion:252 Resp: 529
Ion Ratio Lower Upper
252 100
253 62.7 24.9 37.3#
125 42.3 12.9 19.3#





#38

Benzo(k)fluoranthene

Concen: 0.109 ng m

RT: 22.760 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:252 Resp: 74

Ion Ratio Lower Upper

252 100

253 65.0 24.6 37.0

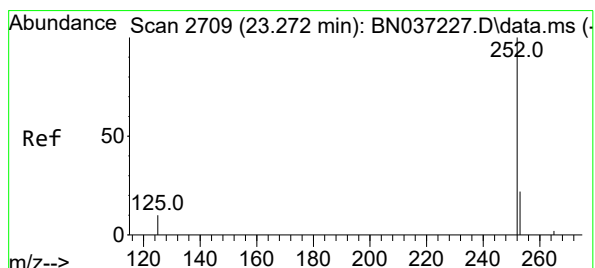
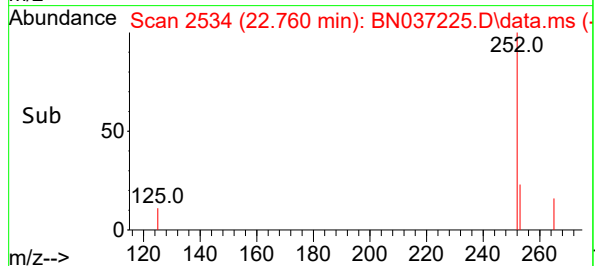
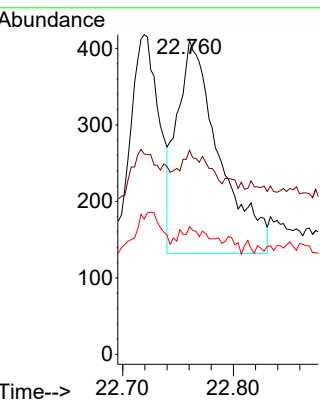
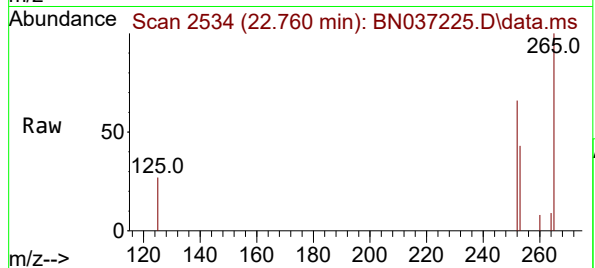
125 40.6 13.4 20.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 2713

Delta R.T. 0.012 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

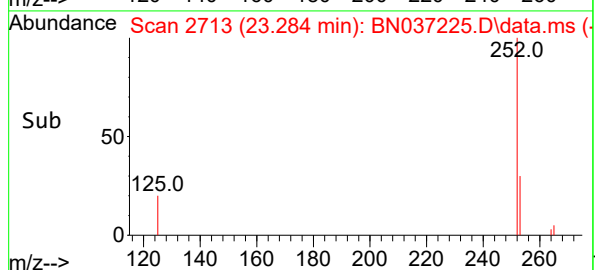
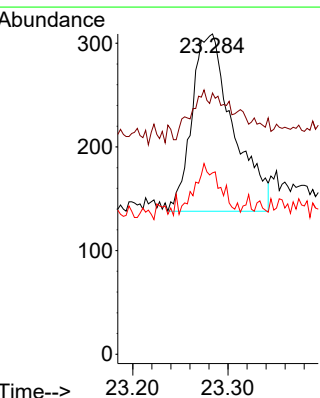
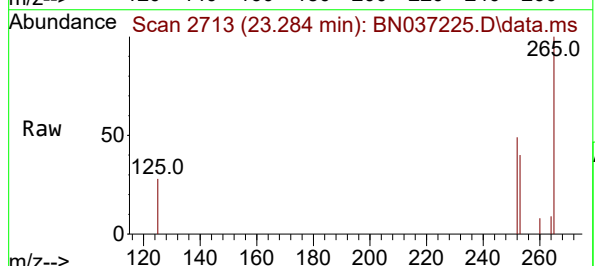
Tgt Ion:252 Resp: 514

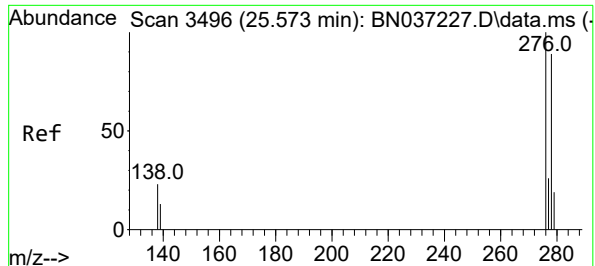
Ion Ratio Lower Upper

252 100

253 81.6 29.4 44.2#

125 56.6 16.2 24.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.091 ng m

RT: 25.590 min Scan# 3

Delta R.T. 0.018 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

Tgt Ion:278 Resp: 44

Ion Ratio Lower Upper

278 100

139 48.9 17.8 26.6

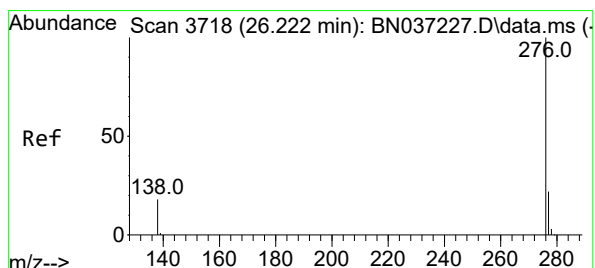
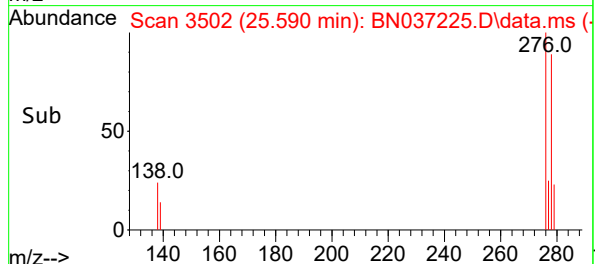
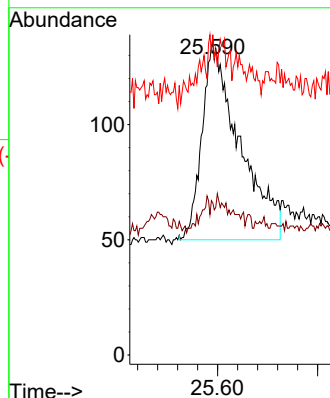
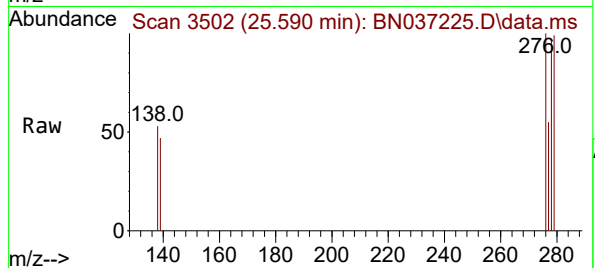
279 103.0 31.3 46.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#41

Benzo(g,h,i)perylene

Concen: 0.101 ng

RT: 26.228 min Scan# 3720

Delta R.T. 0.006 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

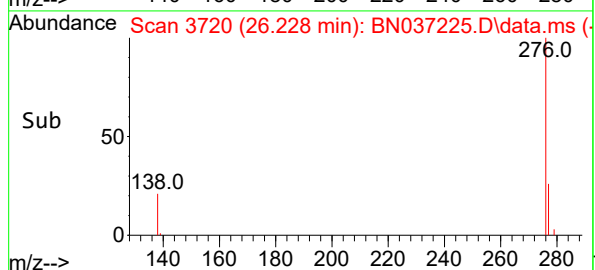
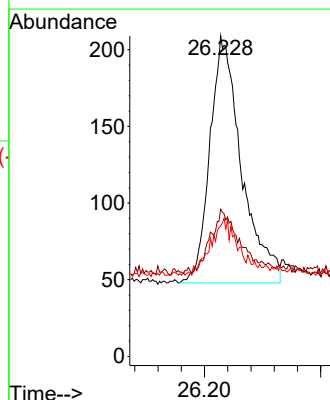
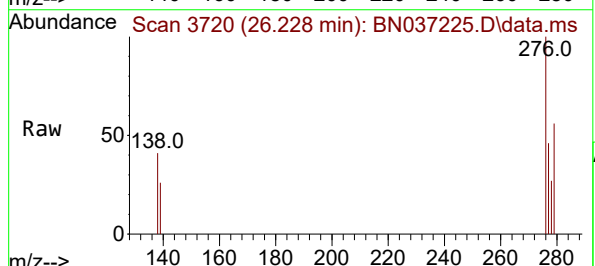
Tgt Ion:276 Resp: 608

Ion Ratio Lower Upper

276 100

277 45.9 22.0 33.0#

138 40.7 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037226.D
 Acq On : 13 Jun 2025 14:10
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

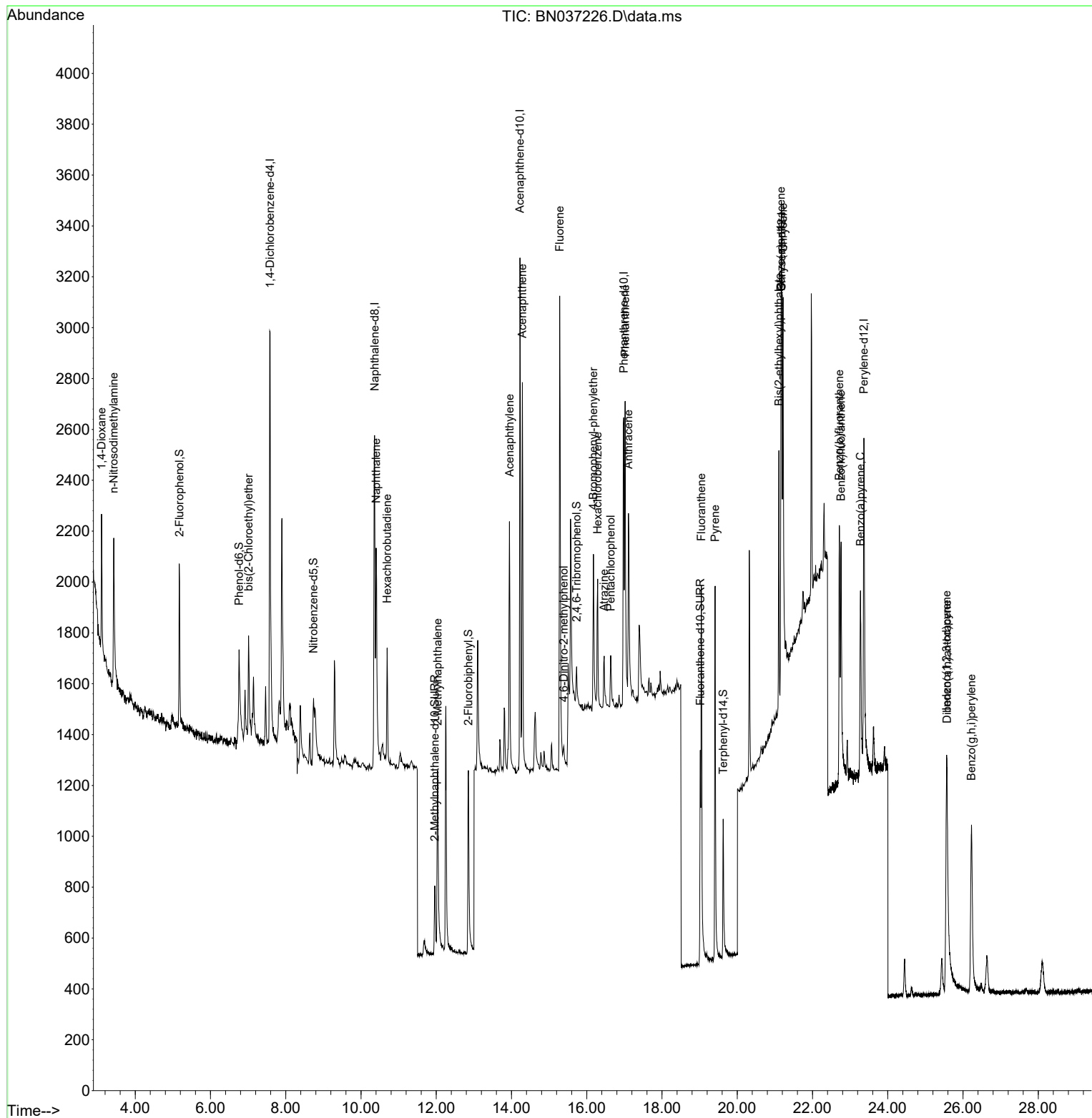
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	914	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	2268	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1246	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2198	0.400	ng	# 0.01
29) Chrysene-d12	21.179	240	1908	0.400	ng	0.00
35) Perylene-d12	23.365	264	2012	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	469	0.209	ng	0.00
5) Phenol-d6	6.759	99	428	0.181	ng	0.00
8) Nitrobenzene-d5	8.739	82	345	0.154	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	571	0.188	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	91	0.176	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	953	0.182	ng	0.00
27) Fluoranthene-d10	19.017	212	1179	0.205	ng	0.00
31) Terphenyl-d14	19.625	244	806	0.187	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	312	0.249	ng	92
3) n-Nitrosodimethylamine	3.429	42	620	0.217	ng	# 95
6) bis(2-Chloroethyl)ether	7.011	93	324	0.153	ng	95
9) Naphthalene	10.404	128	1307	0.199	ng	# 88
10) Hexachlorobutadiene	10.692	225	329	0.206	ng	# 94
12) 2-Methylnaphthalene	12.036	142	719	0.180	ng	92
16) Acenaphthylene	13.946	152	1165	0.191	ng	98
17) Acenaphthene	14.288	154	753	0.191	ng	98
18) Fluorene	15.282	166	940	0.186	ng	98
20) 4,6-Dinitro-2-methylph...	15.389	198	81	0.257	ng	# 60
21) 4-Bromophenyl-phenylether	16.177	248	273	0.191	ng	98
22) Hexachlorobenzene	16.289	284	350	0.211	ng	99
23) Atrazine	16.462	200	252	0.197	ng	# 78
24) Pentachlorophenol	16.636	266	153	0.188	ng	90
25) Phenanthrene	17.021	178	1346	0.193	ng	99
26) Anthracene	17.108	178	1186	0.186	ng	98
28) Fluoranthene	19.045	202	1657	0.203	ng	97
30) Pyrene	19.412	202	1660	0.185	ng	99
32) Benzo(a)anthracene	21.162	228	1149	0.178	ng	93
33) Chrysene	21.215	228	1643	0.205	ng	94
34) Bis(2-ethylhexyl)phtha...	21.108	149	1053	0.219	ng	98
36) Indeno(1,2,3-cd)pyrene	25.564	276	1512	0.186	ng	97
37) Benzo(b)fluoranthene	22.713	252	1296	0.176	ng	# 85
38) Benzo(k)fluoranthene	22.757	252	1512	0.179	ng	# 81
39) Benzo(a)pyrene	23.275	252	1215	0.184	ng	# 71
40) Dibenzo(a,h)anthracene	25.576	278	1109	0.181	ng	# 76
41) Benzo(g,h,i)perylene	26.225	276	1469	0.195	ng	# 88

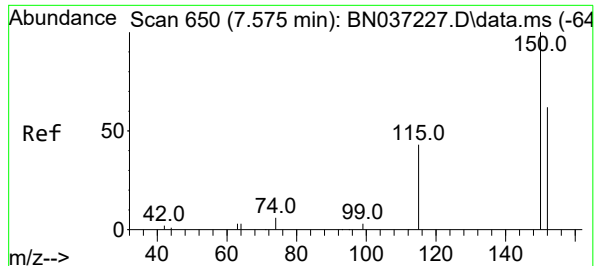
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037226.D
Acq On : 13 Jun 2025 14:10
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

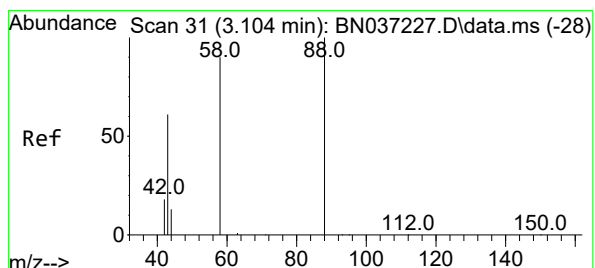
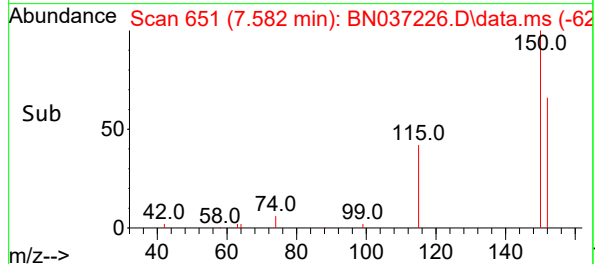
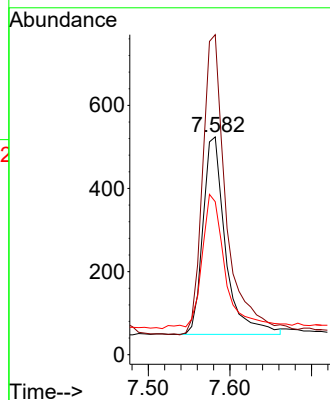
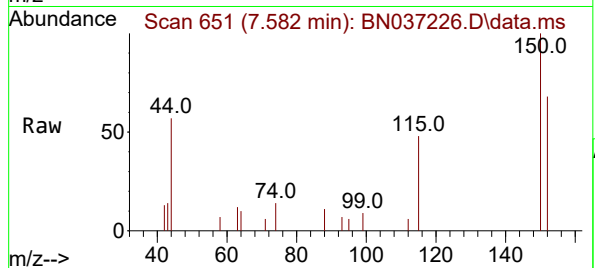




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

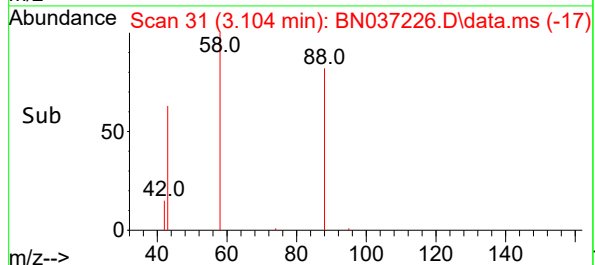
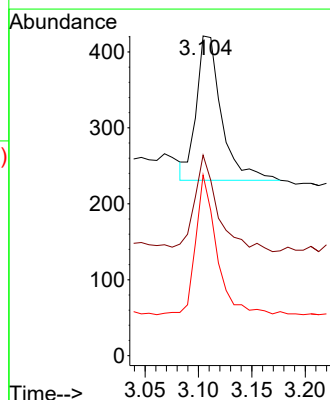
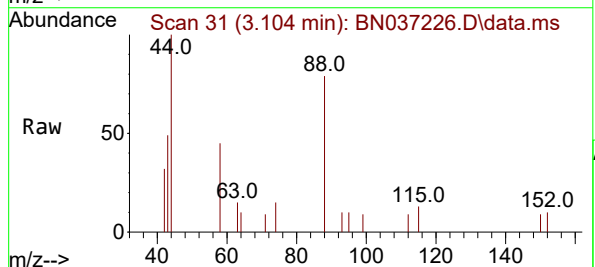
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

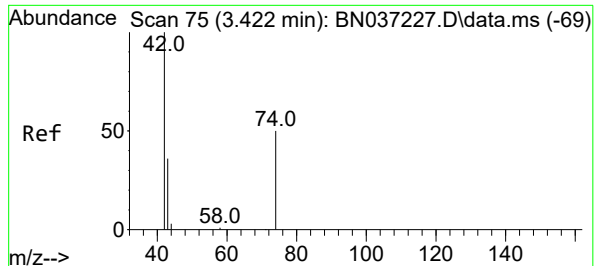
Tgt Ion:152 Resp: 914
Ion Ratio Lower Upper
152 100
150 146.9 125.2 187.8
115 70.2 58.4 87.6



#2
1,4-Dioxane
Concen: 0.249 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 88 Resp: 312
Ion Ratio Lower Upper
88 100
43 63.1 52.6 79.0
58 80.8 73.5 110.3

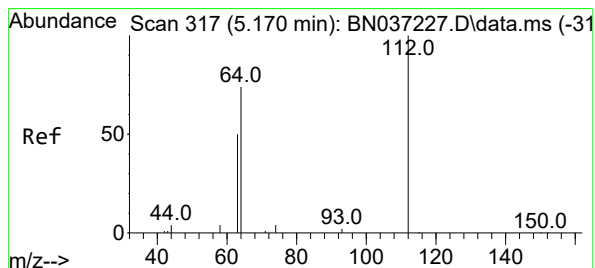
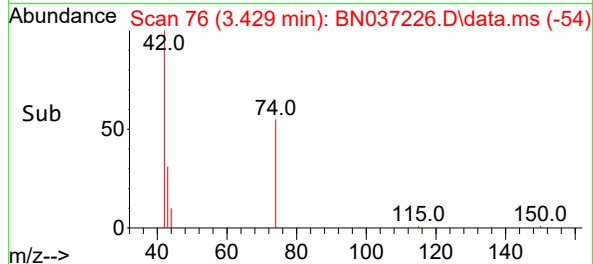
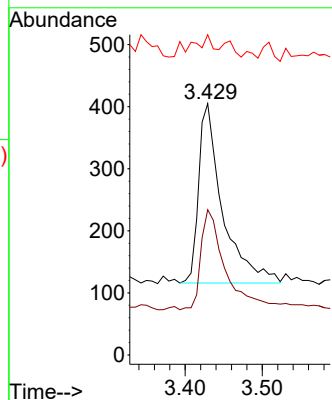
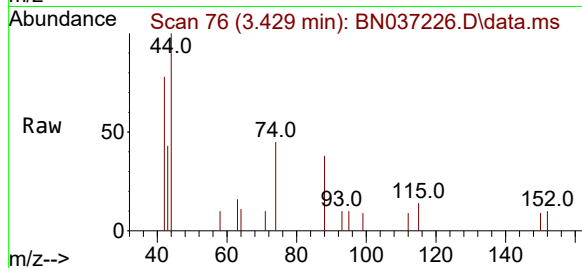




#3
n-Nitrosodimethylamine
Concen: 0.217 ng
RT: 3.429 min Scan# 70
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

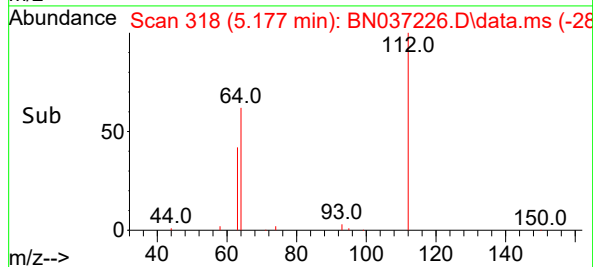
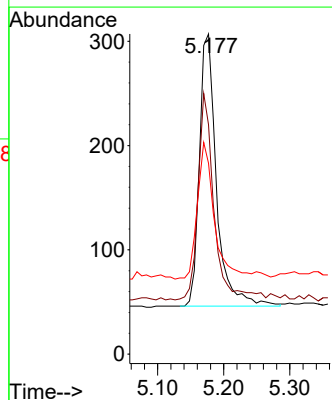
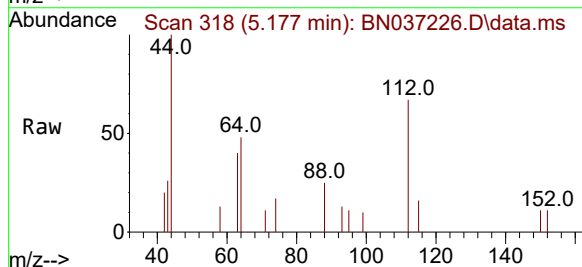
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

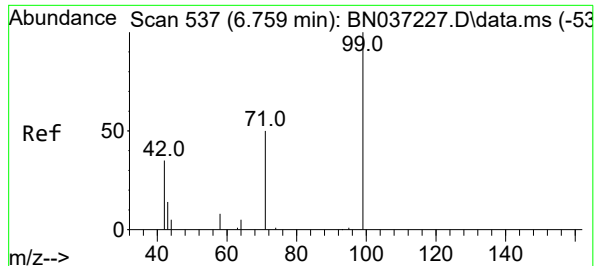
Tgt Ion: 42 Resp: 620
Ion Ratio Lower Upper
42 100
74 58.5 44.6 66.8
44 0.0 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 112 Resp: 469
Ion Ratio Lower Upper
112 100
64 71.4 57.2 85.8
63 49.9 39.8 59.6

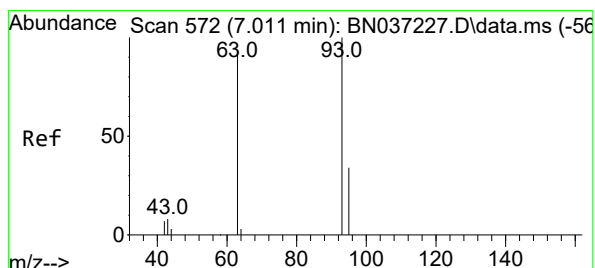
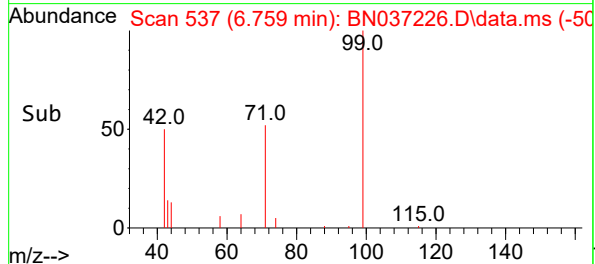
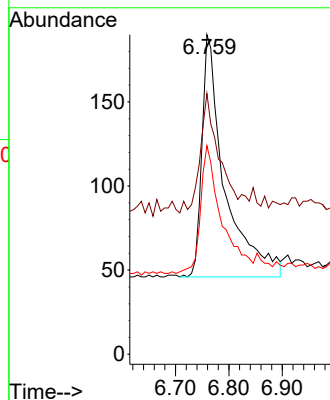
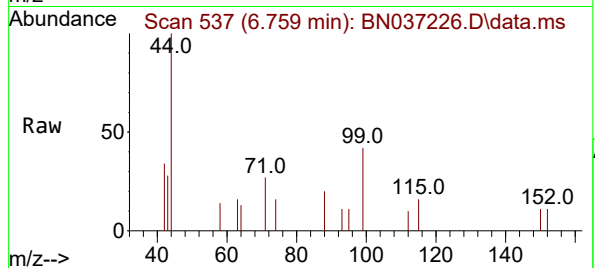




#5
Phenol-d6
Concen: 0.181 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

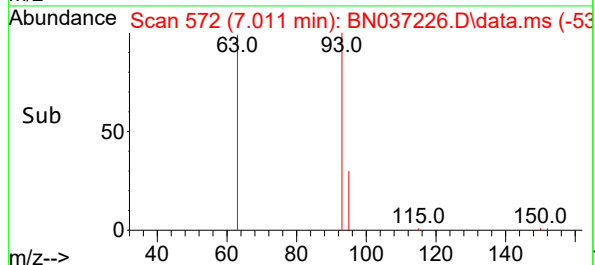
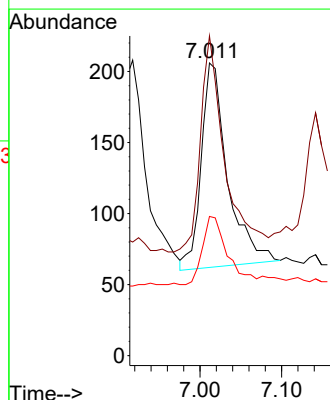
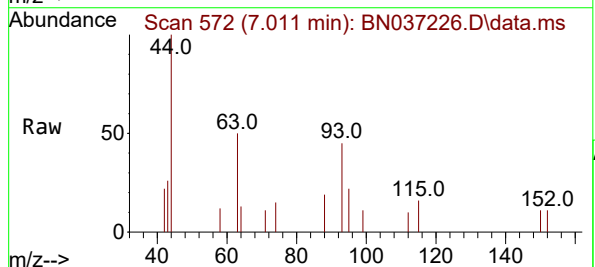
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

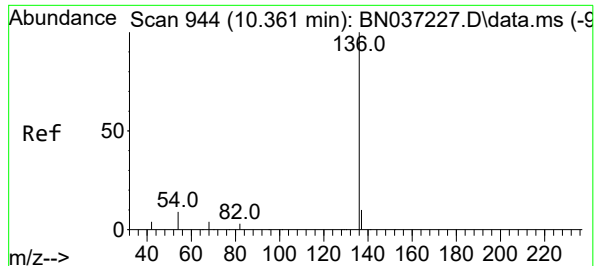
Tgt Ion: 99 Resp: 428
Ion Ratio Lower Upper
99 100
42 42.8 36.2 54.4
71 48.6 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.153 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion: 93 Resp: 324
Ion Ratio Lower Upper
93 100
63 98.1 75.2 112.8
95 31.5 28.3 42.5

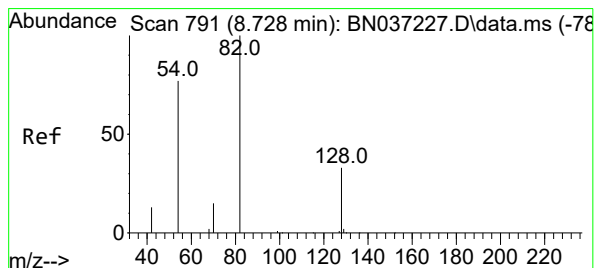
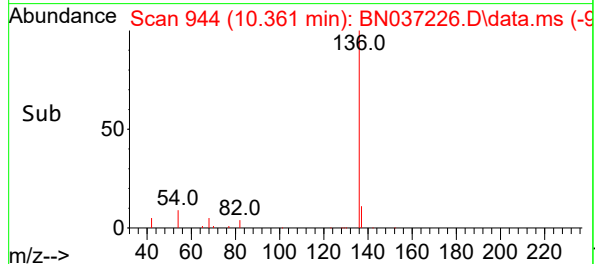
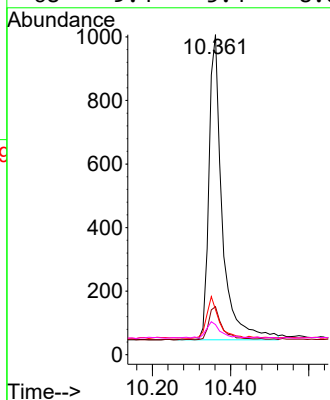
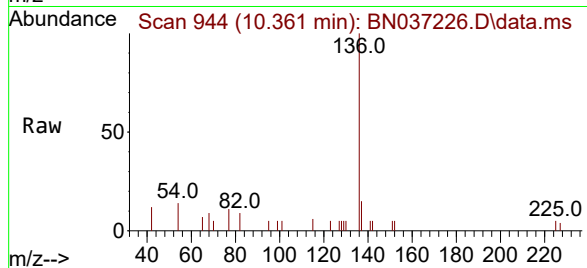




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

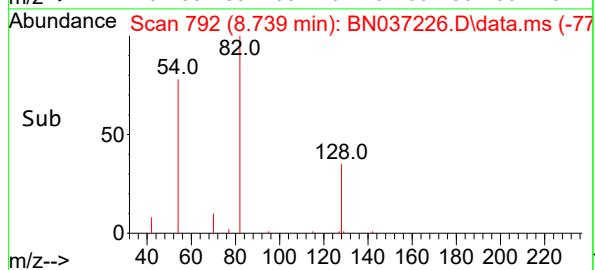
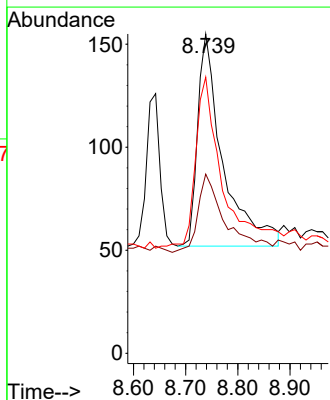
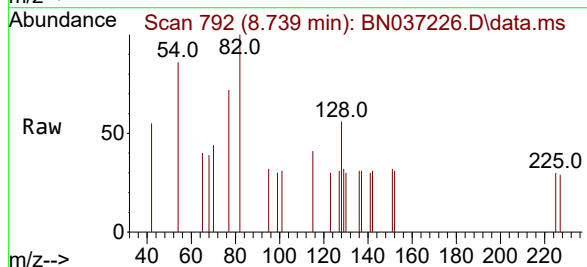
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

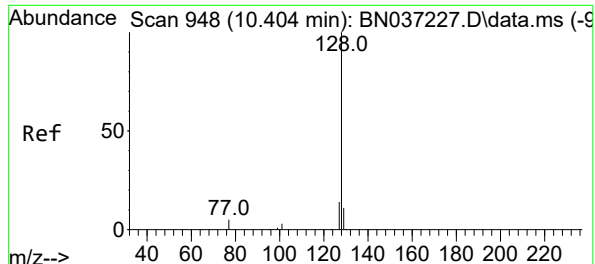
Tgt Ion:	136	Resp:	2268
Ion	Ratio	Lower	Upper
136	100		
137	15.0	10.6	15.8
54	14.1	9.2	13.8#
68	9.4	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.154 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:	82	Resp:	345
Ion	Ratio	Lower	Upper
82	100		
128	56.1	31.2	46.8#
54	86.5	63.3	94.9

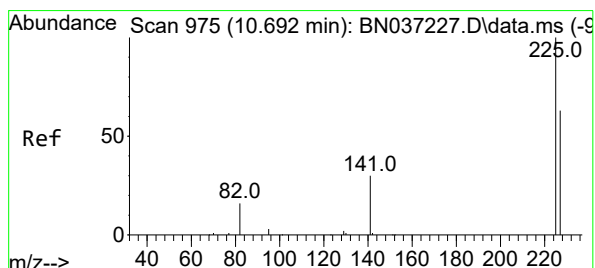
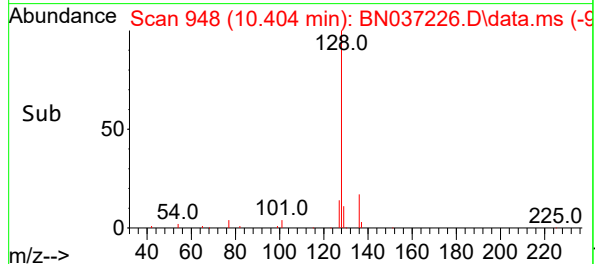
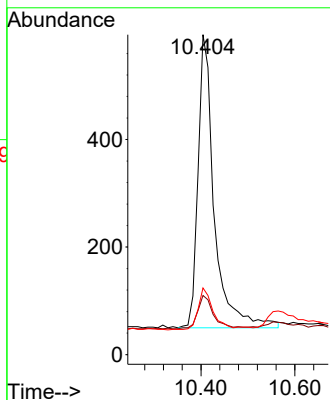
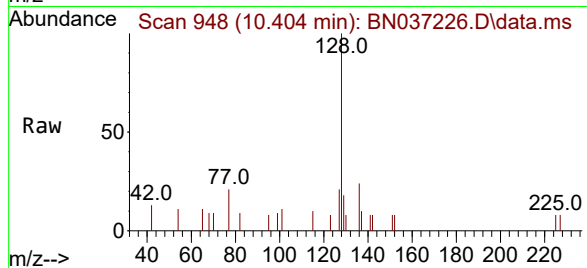




#9
Naphthalene
Concen: 0.199 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

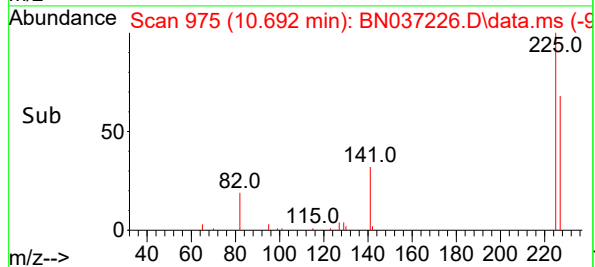
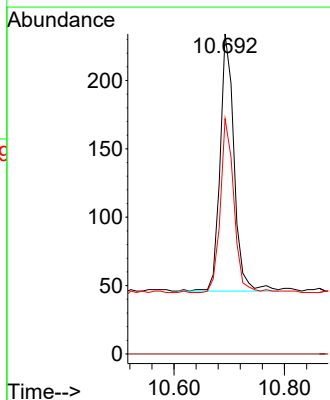
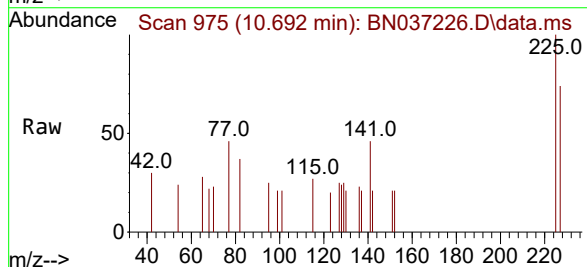
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

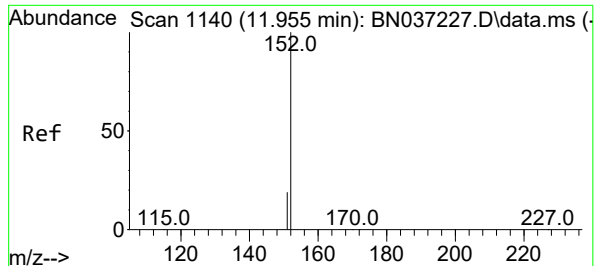
Tgt Ion:128 Resp: 1307
Ion Ratio Lower Upper
128 100
129 18.5 10.7 16.1#
127 20.8 12.6 19.0#



#10
Hexachlorobutadiene
Concen: 0.206 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:225 Resp: 329
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 66.3 49.2 73.8

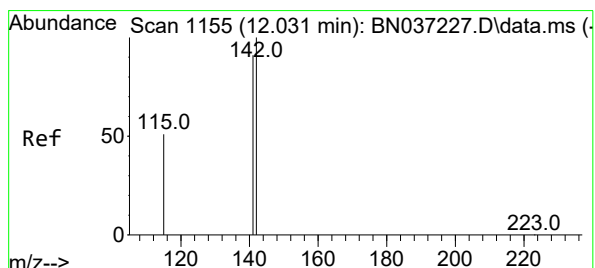
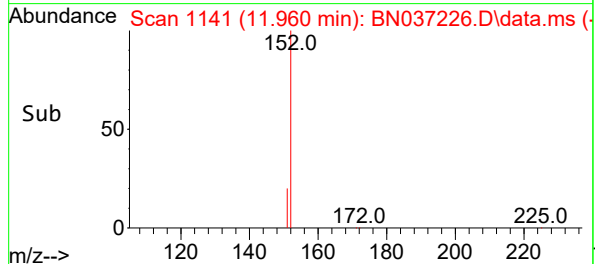
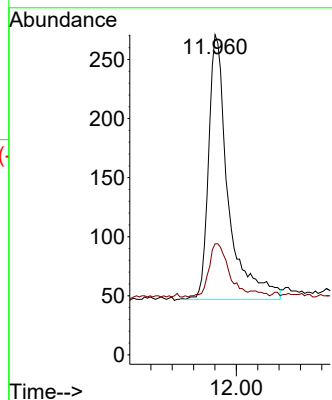
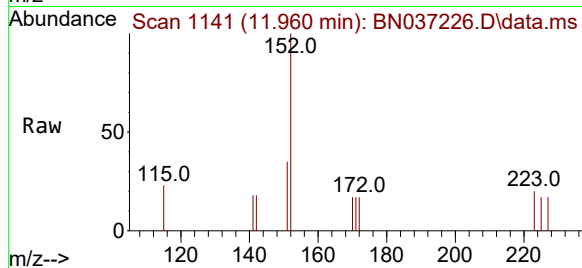




#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

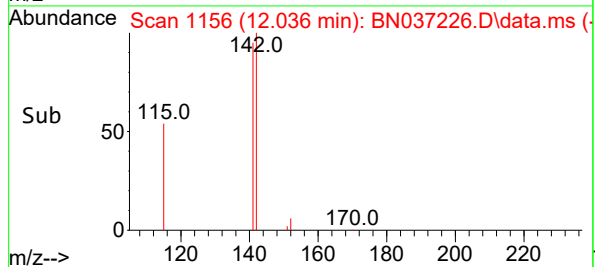
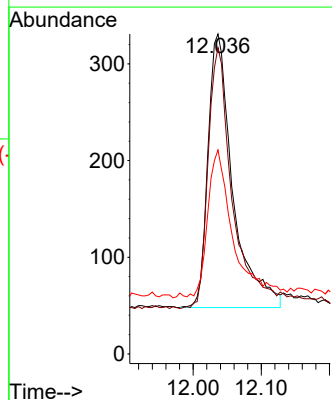
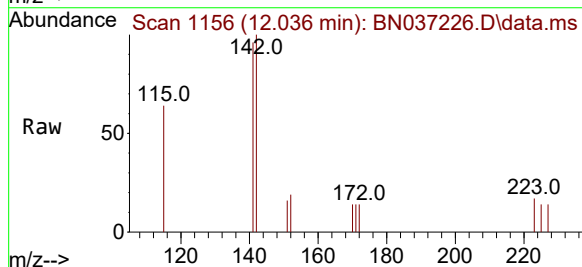
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

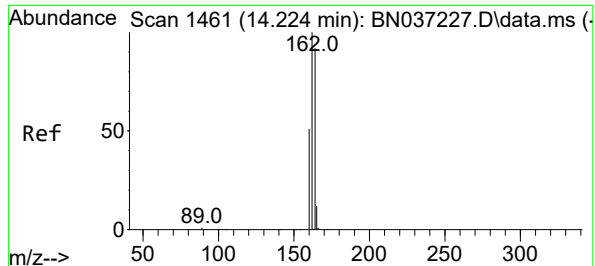
Tgt Ion:152 Resp: 571
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.180 ng
RT: 12.036 min Scan# 1156
Delta R.T. 0.005 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:142 Resp: 719
Ion Ratio Lower Upper
142 100
141 95.8 73.0 109.6
115 63.7 43.3 64.9

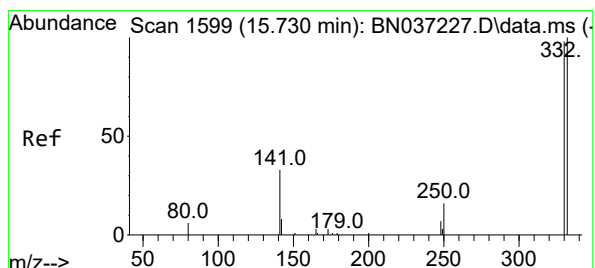
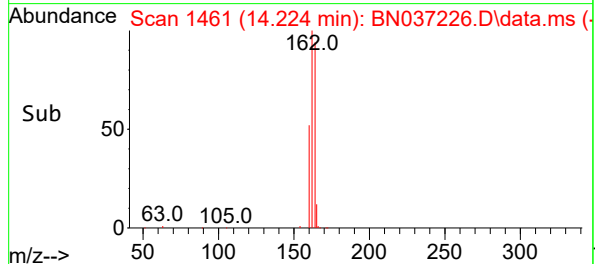
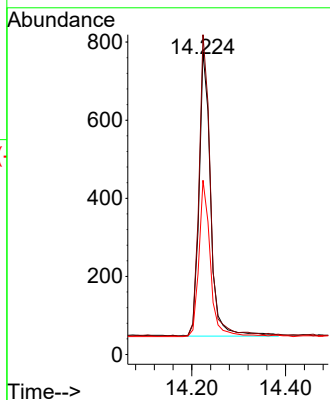
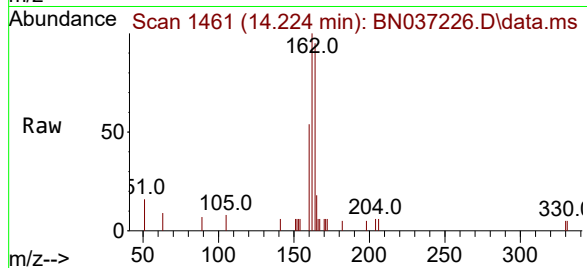




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

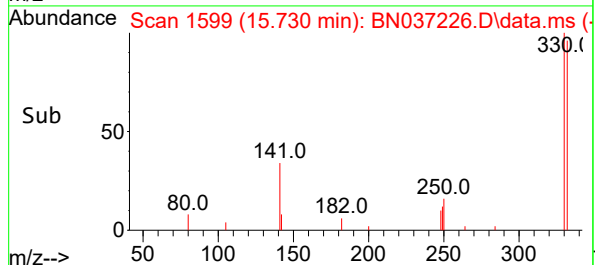
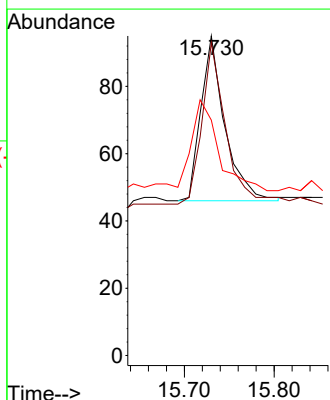
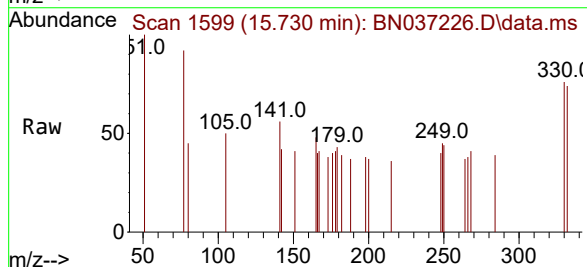
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

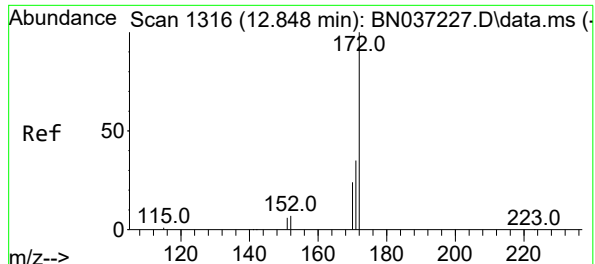
Tgt Ion:164 Resp: 1246
Ion Ratio Lower Upper
164 100
162 105.5 86.7 130.1
160 57.5 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:330 Resp: 91
Ion Ratio Lower Upper
330 100
332 101.1 74.9 112.3
141 62.6 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.182 ng

RT: 12.853 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

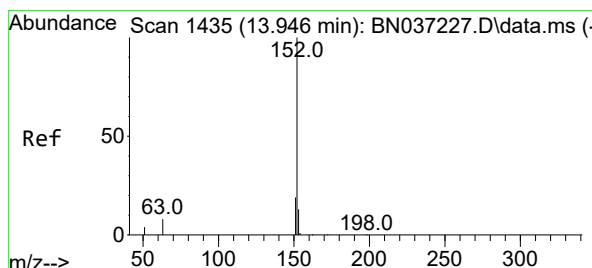
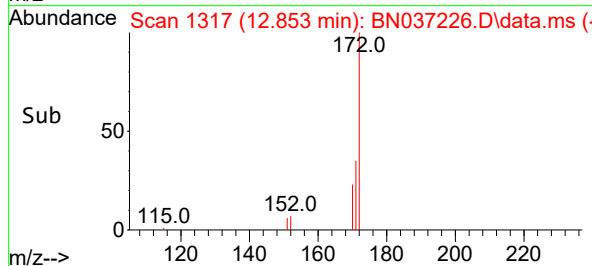
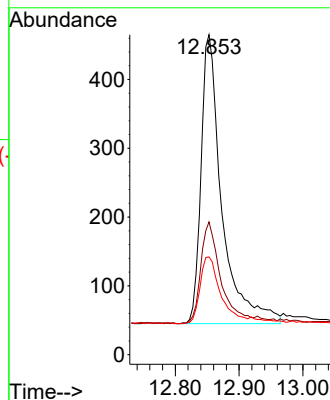
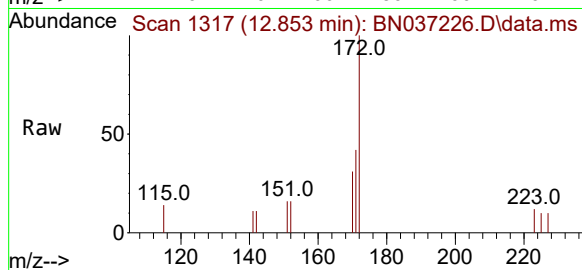
Tgt Ion:172 Resp: 953

Ion Ratio Lower Upper

172 100

171 41.5 29.8 44.8

170 30.5 21.1 31.7



#16

Acenaphthylene

Concen: 0.191 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

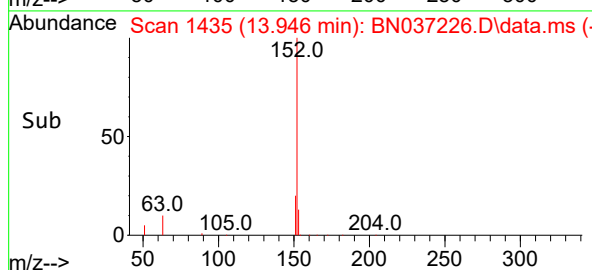
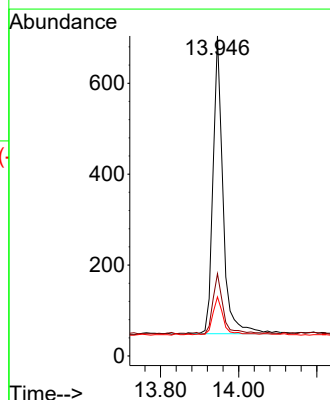
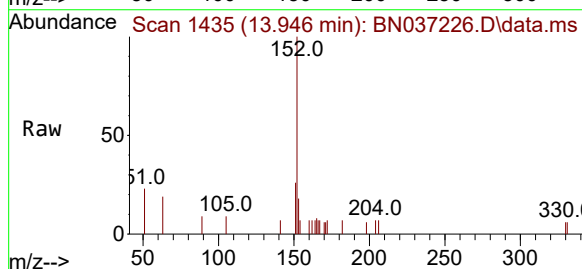
Tgt Ion:152 Resp: 1165

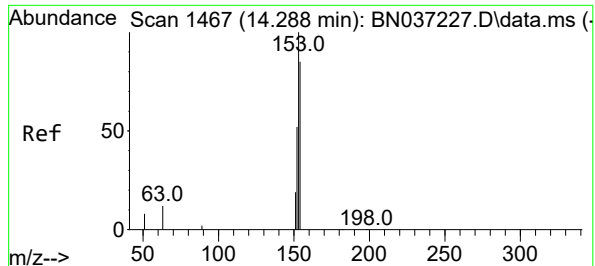
Ion Ratio Lower Upper

152 100

151 20.6 15.7 23.5

153 13.7 10.7 16.1

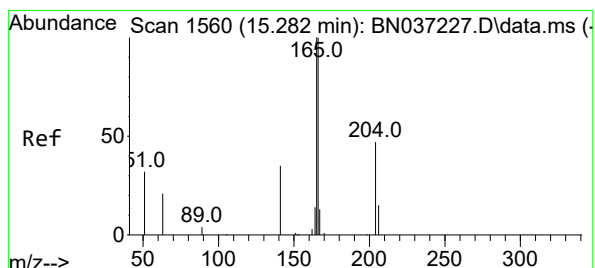
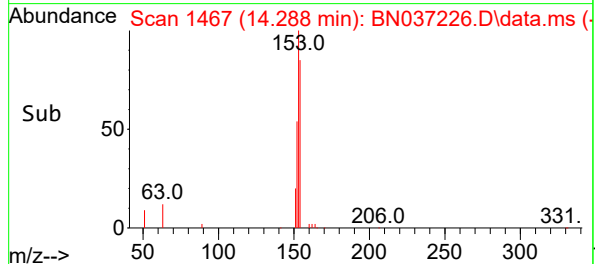
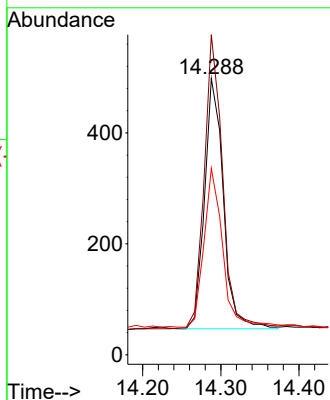
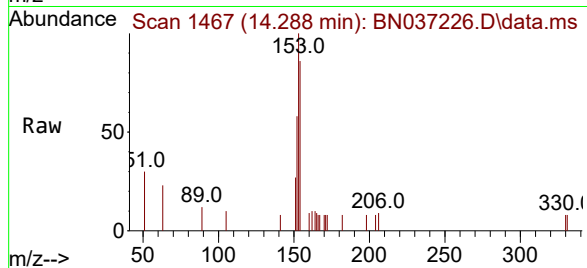




#17
Acenaphthene
Concen: 0.191 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

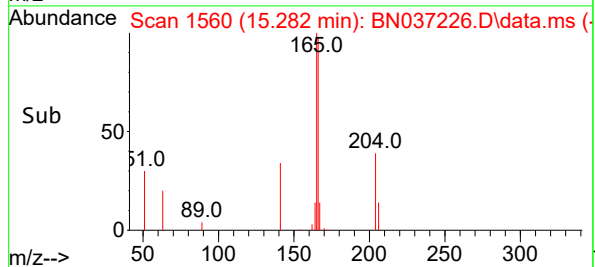
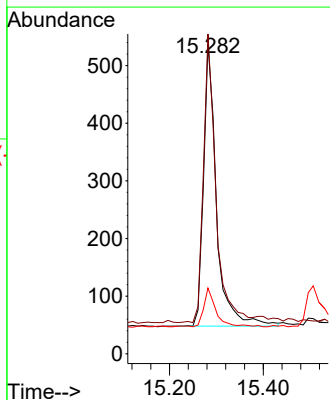
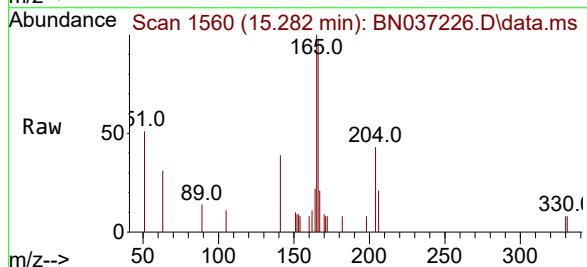
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

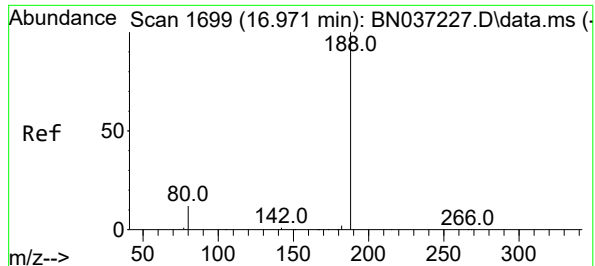
Tgt Ion:154 Resp: 753
Ion Ratio Lower Upper
154 100
153 117.3 94.6 141.8
152 65.2 49.6 74.4



#18
Fluorene
Concen: 0.186 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:166 Resp: 940
Ion Ratio Lower Upper
166 100
165 97.9 79.8 119.6
167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. 0.012 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

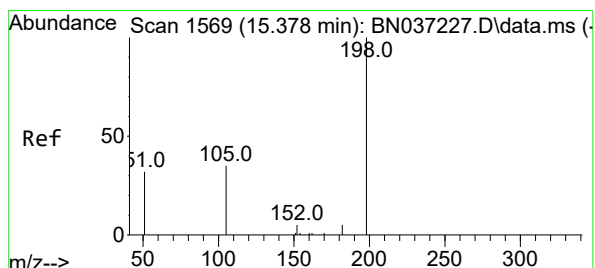
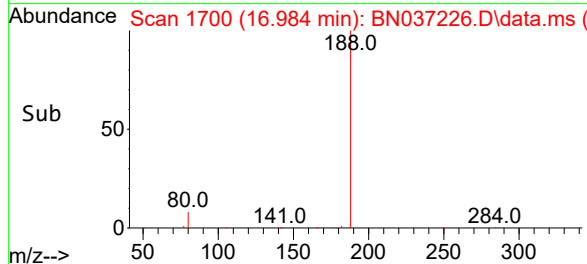
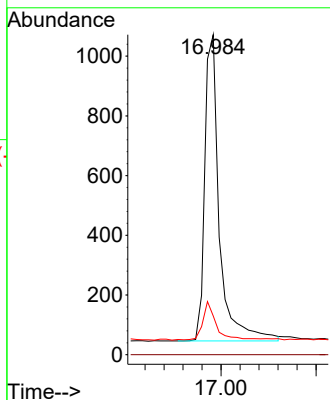
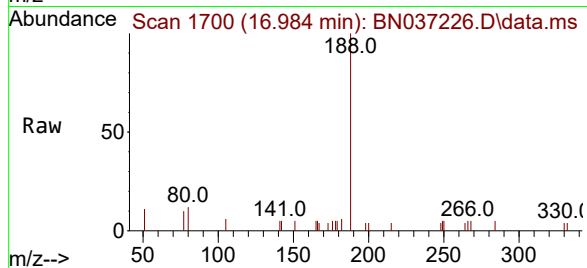
Tgt Ion:188 Resp: 2198

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.257 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.011 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

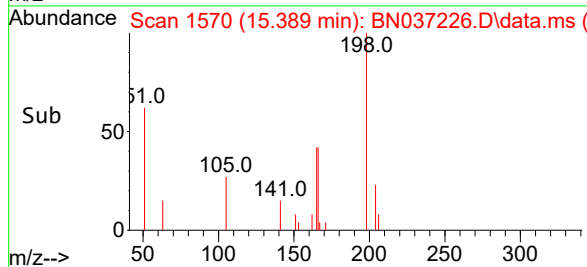
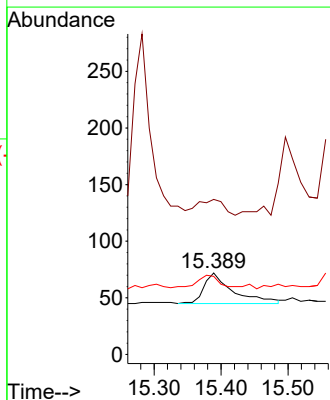
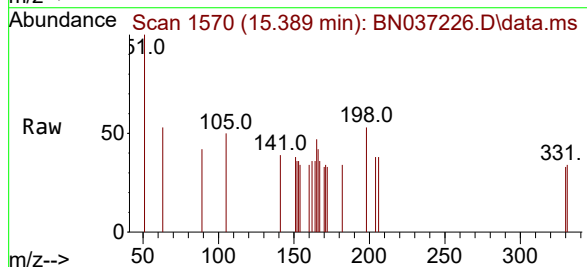
Tgt Ion:198 Resp: 81

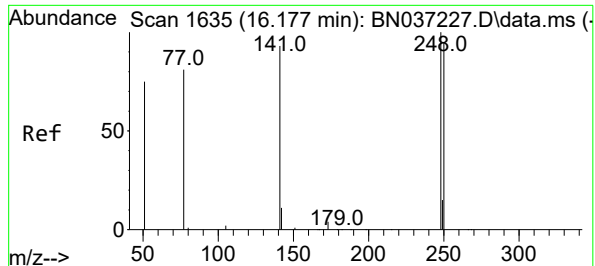
Ion Ratio Lower Upper

198 100

51 190.3 111.2 166.8#

105 95.8 54.0 81.0#

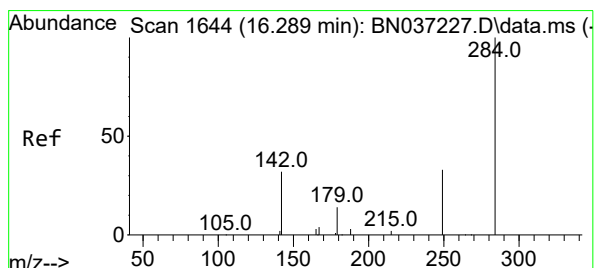
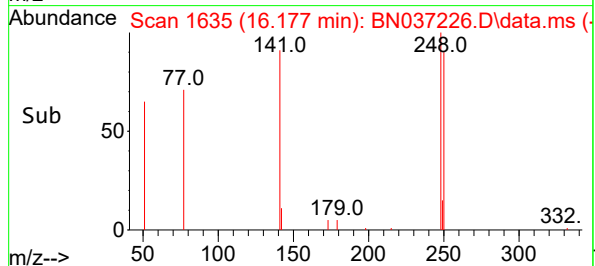
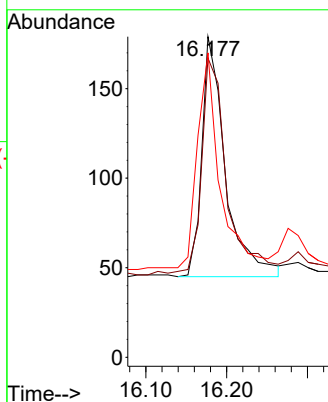
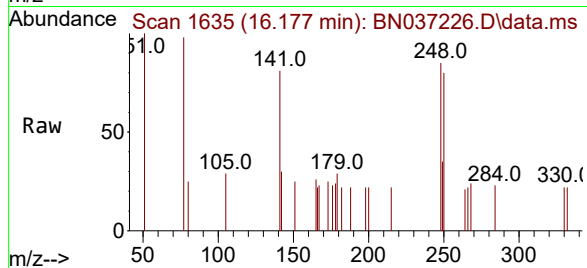




#21
4-Bromophenyl-phenylether
Concen: 0.191 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

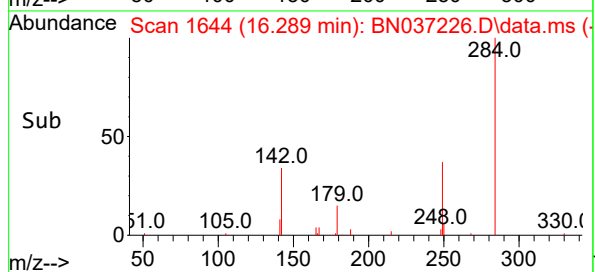
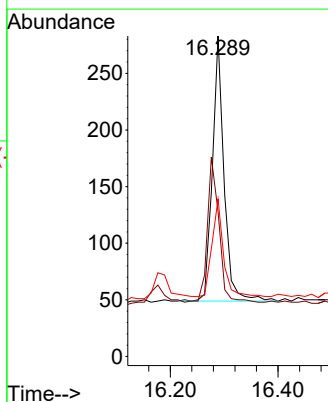
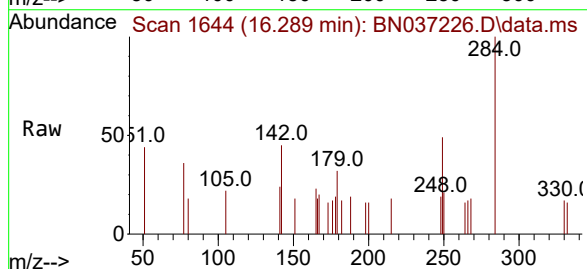
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

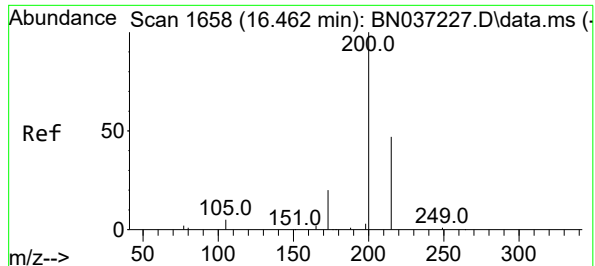
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.8	115.2
141	95.0	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.211 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.1	43.8	65.6
249	36.9	28.4	42.6

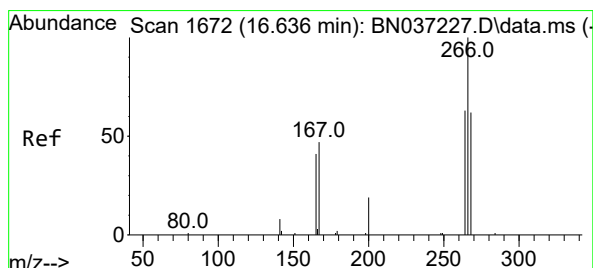
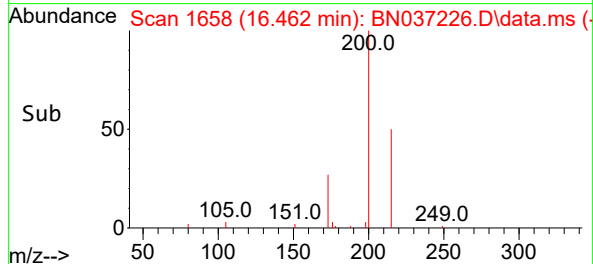
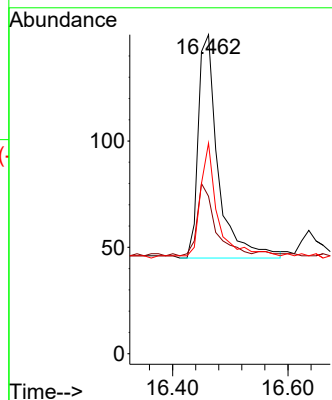
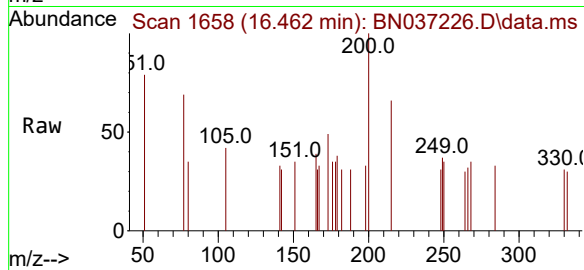




#23
Atrazine
Concen: 0.197 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

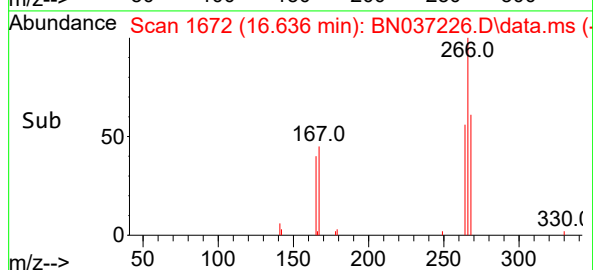
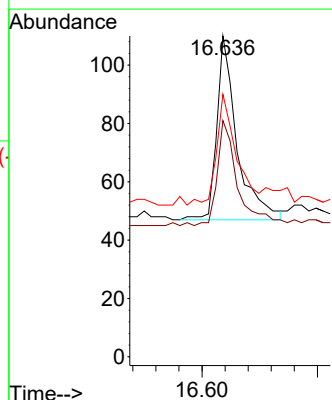
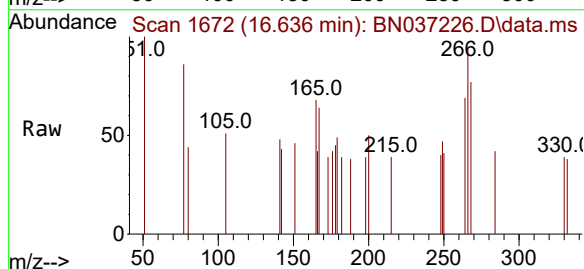
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

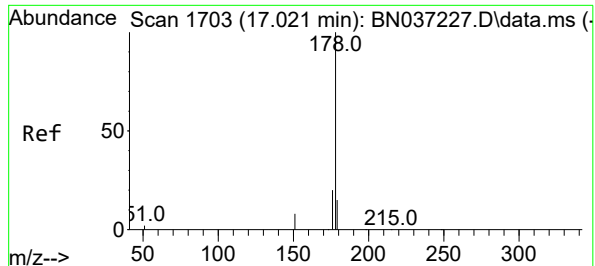
Tgt Ion:200 Resp: 252
Ion Ratio Lower Upper
200 100
173 49.3 25.1 37.7#
215 66.0 43.7 65.5#



#24
Pentachlorophenol
Concen: 0.188 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:266 Resp: 153
Ion Ratio Lower Upper
266 100
264 58.2 49.2 73.8
268 54.2 53.4 80.2

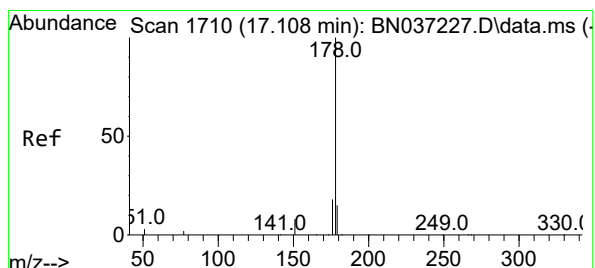
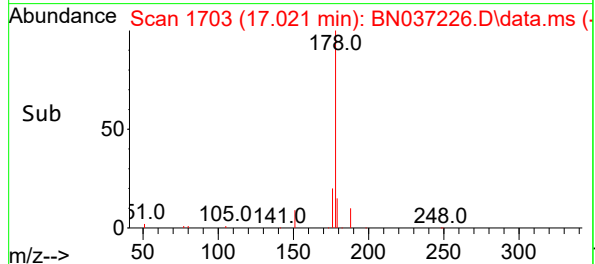
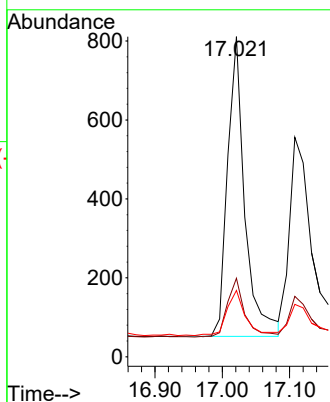
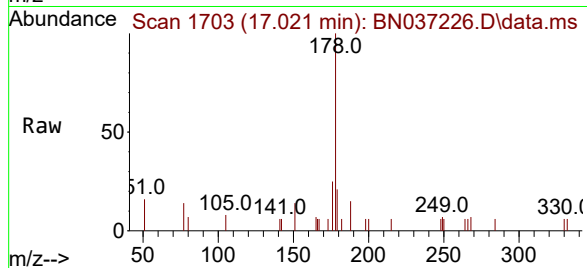




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

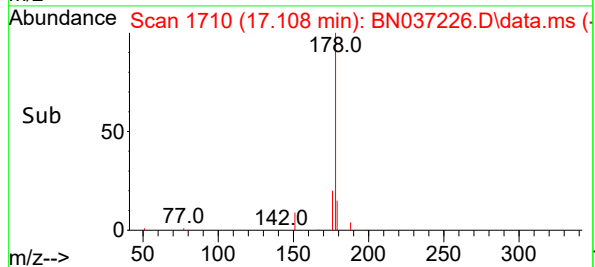
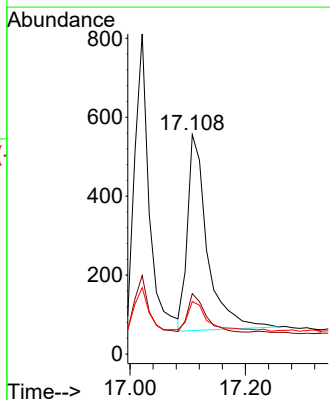
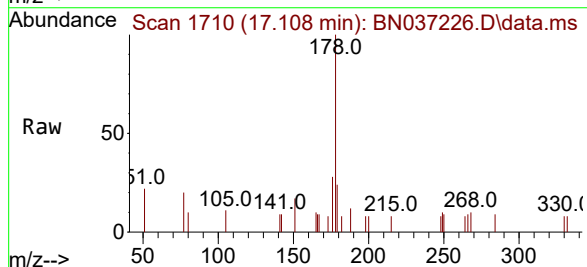
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

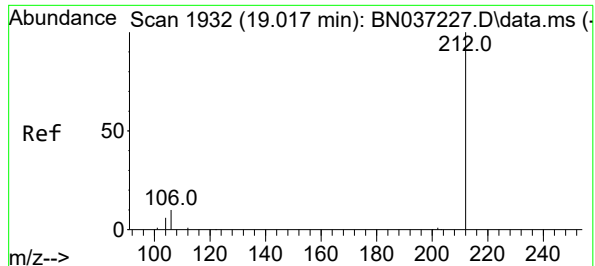
Tgt Ion:178 Resp: 1346
Ion Ratio Lower Upper
178 100
176 20.1 16.3 24.5
179 15.9 12.6 18.8



#26
Anthracene
Concen: 0.186 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:178 Resp: 1186
Ion Ratio Lower Upper
178 100
176 18.0 15.1 22.7
179 16.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.205 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

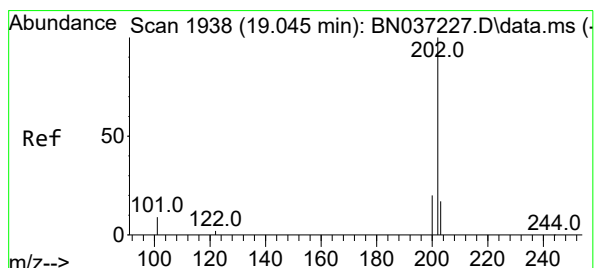
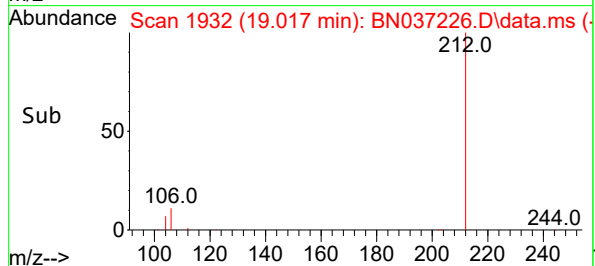
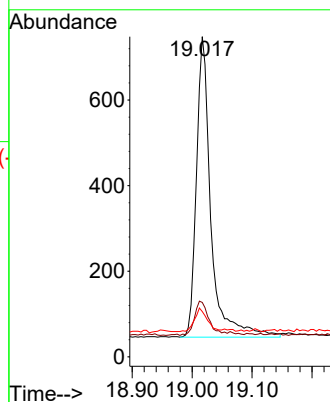
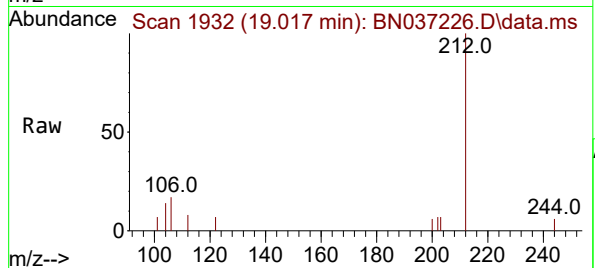
Tgt Ion:212 Resp: 1179

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.203 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

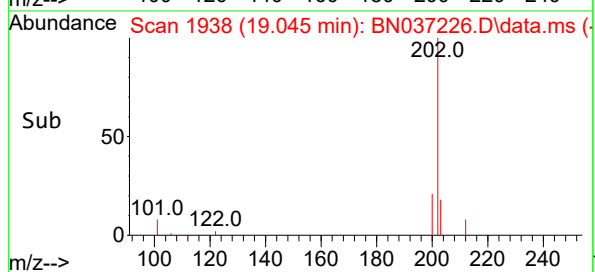
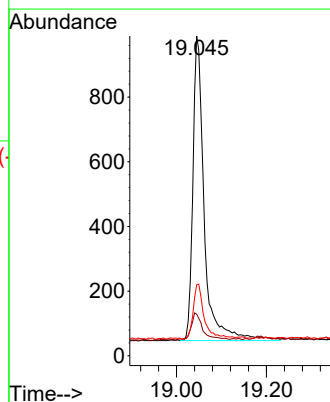
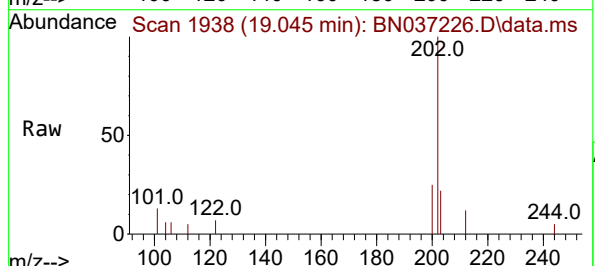
Tgt Ion:202 Resp: 1657

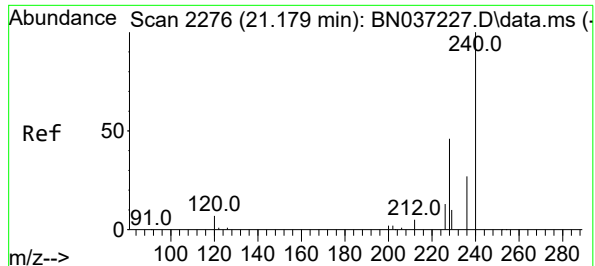
Ion Ratio Lower Upper

202 100

101 9.1 7.1 10.7

203 18.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

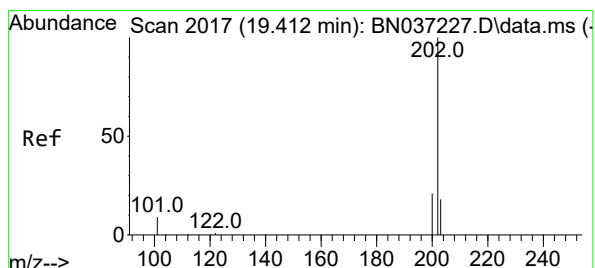
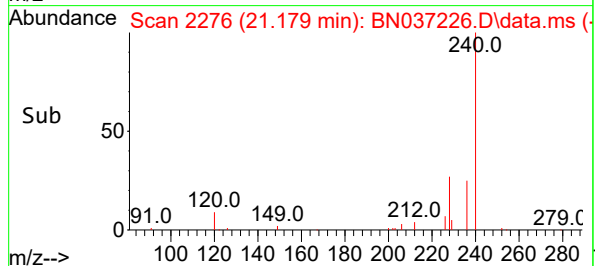
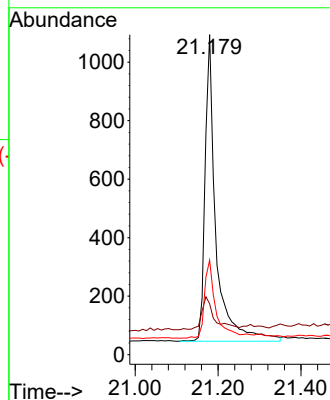
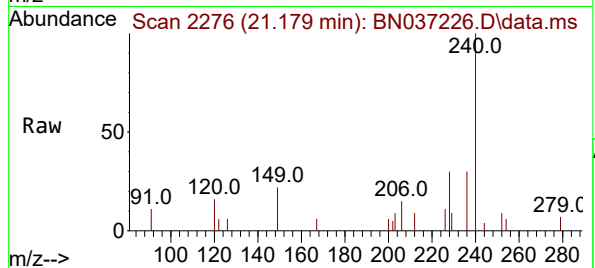
Tgt Ion:240 Resp: 1908

Ion Ratio Lower Upper

240 100

120 15.9 11.3 16.9

236 29.5 24.4 36.6



#30

Pyrene

Concen: 0.185 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

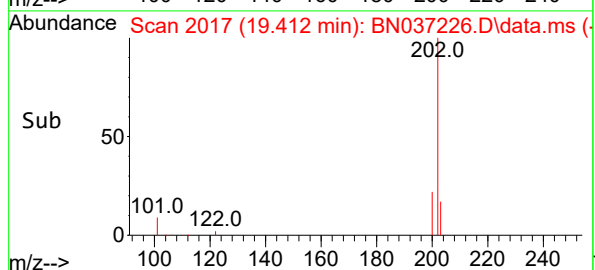
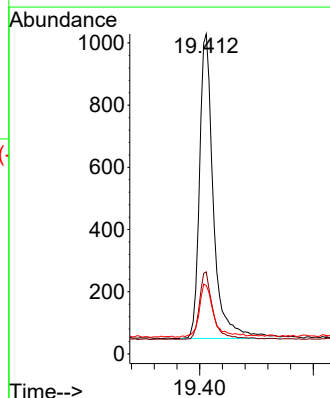
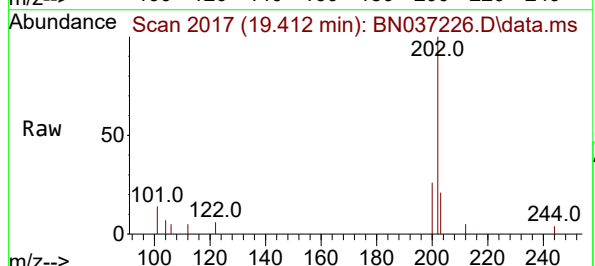
Tgt Ion:202 Resp: 1660

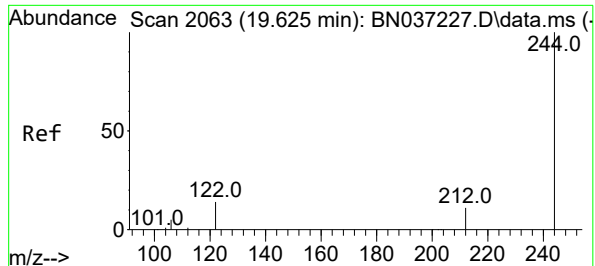
Ion Ratio Lower Upper

202 100

200 21.2 17.2 25.8

203 18.2 14.3 21.5

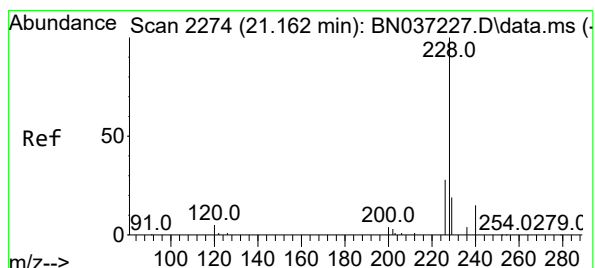
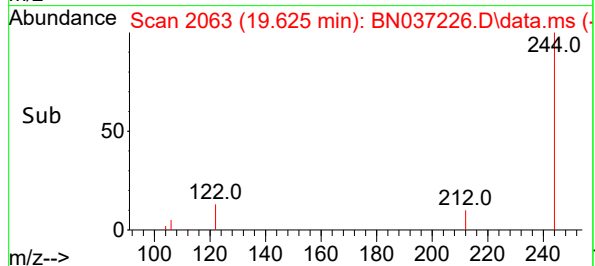
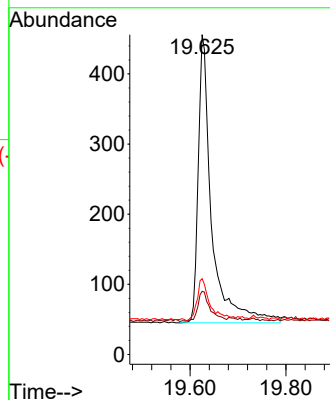
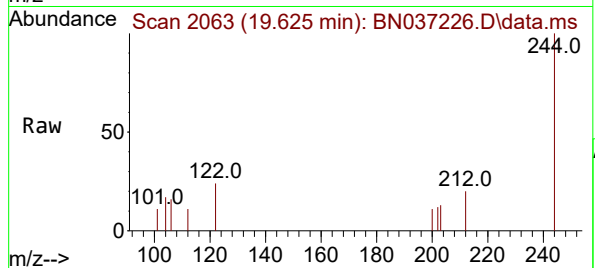




#31
Terphenyl-d14
Concen: 0.187 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

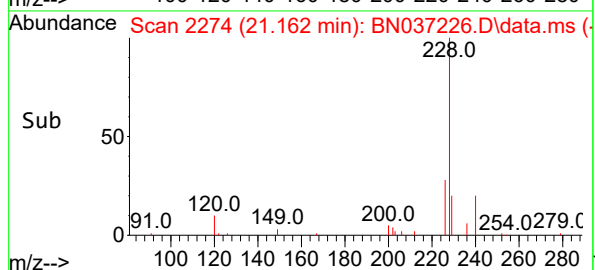
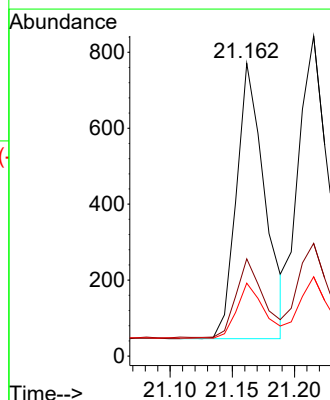
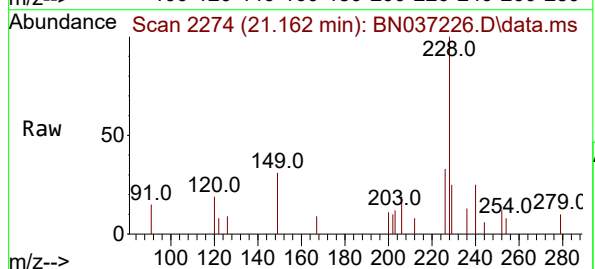
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

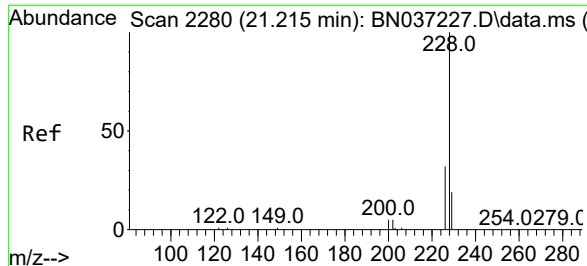
Tgt Ion:244 Resp: 806
Ion Ratio Lower Upper
244 100
212 19.7 12.2 18.2#
122 23.7 14.3 21.5#



#32
Benzo(a)anthracene
Concen: 0.178 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037226.D
Acq: 13 Jun 2025 14:10

Tgt Ion:228 Resp: 1149
Ion Ratio Lower Upper
228 100
226 33.2 23.8 35.8
229 24.9 17.0 25.4





#33

Chrysene

Concen: 0.205 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

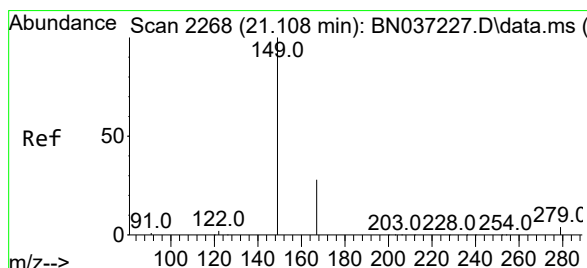
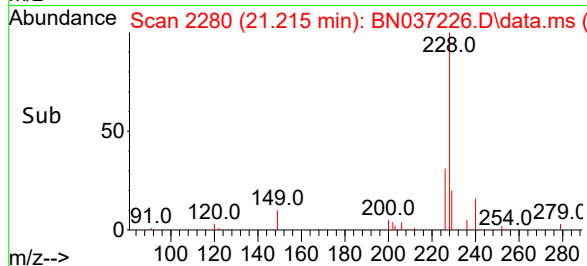
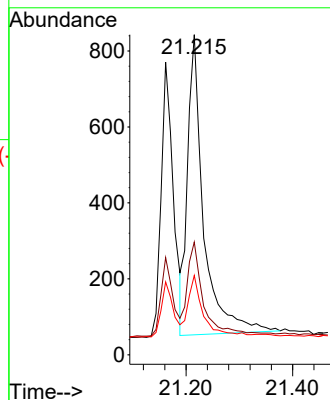
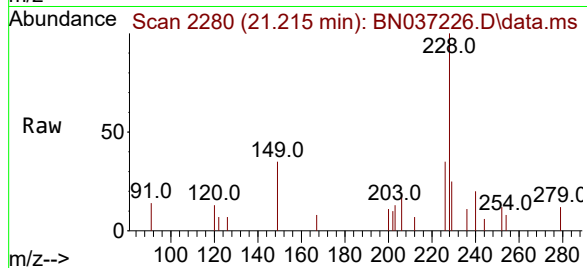
Tgt Ion:228 Resp: 1643

Ion Ratio Lower Upper

228 100

226 35.2 25.8 38.6

229 24.8 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.219 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

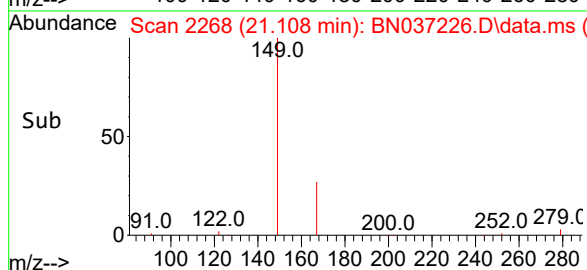
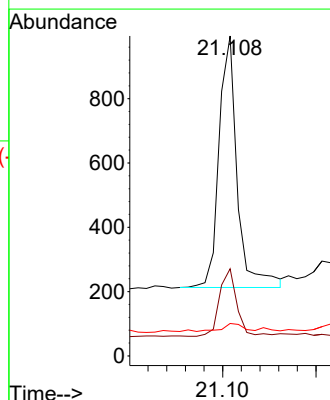
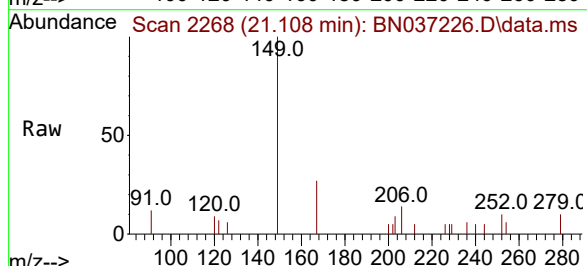
Tgt Ion:149 Resp: 1053

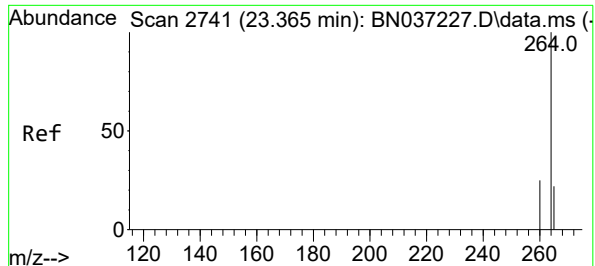
Ion Ratio Lower Upper

149 100

167 25.7 21.3 31.9

279 3.6 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

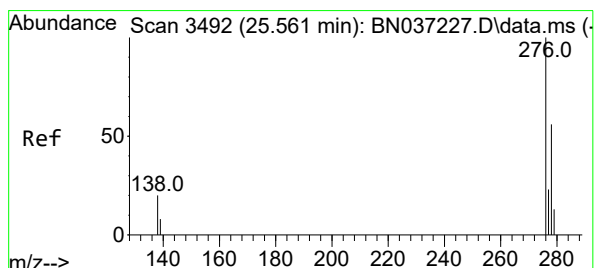
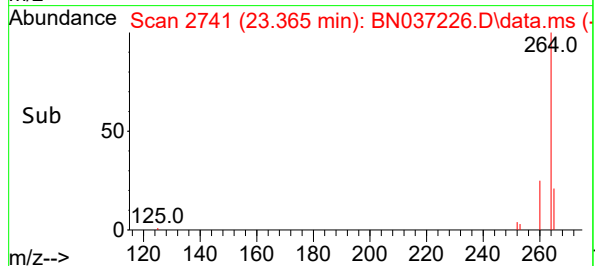
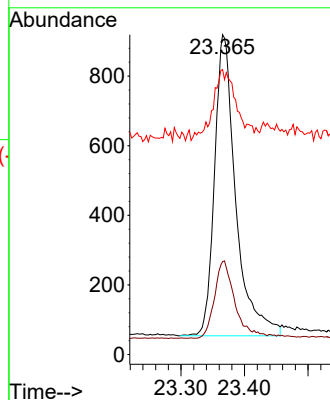
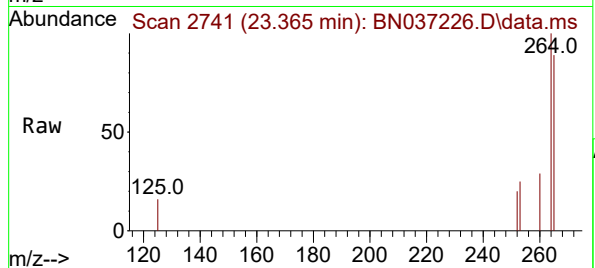
Tgt Ion:264 Resp: 2012

Ion Ratio Lower Upper

264 100

260 29.1 22.8 34.2

265 89.1 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.186 ng

RT: 25.564 min Scan# 3493

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

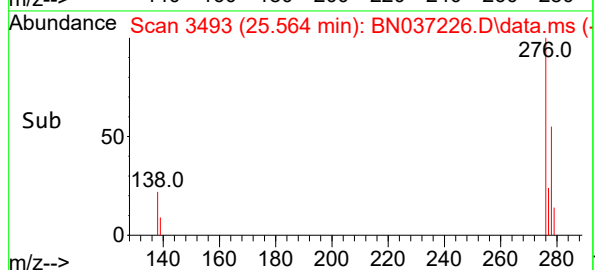
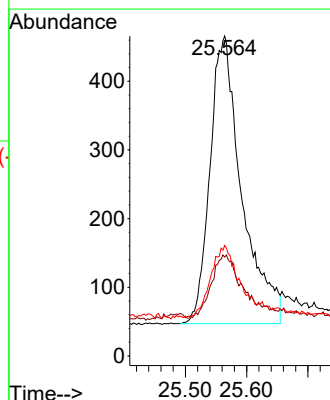
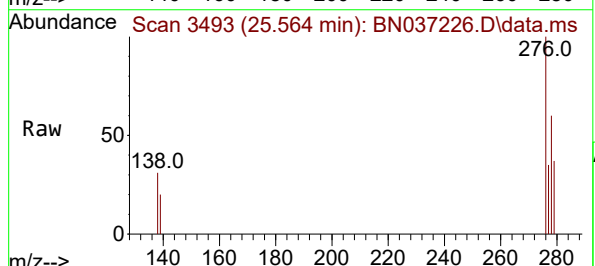
Tgt Ion:276 Resp: 1512

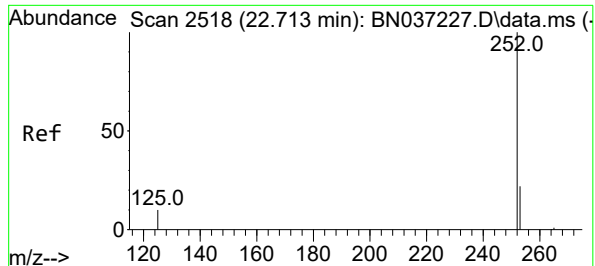
Ion Ratio Lower Upper

276 100

138 20.4 16.8 25.2

277 22.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.176 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

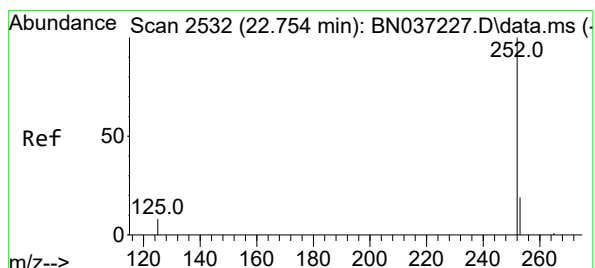
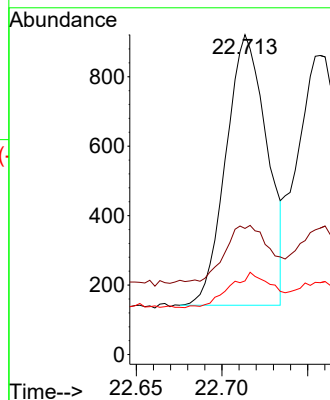
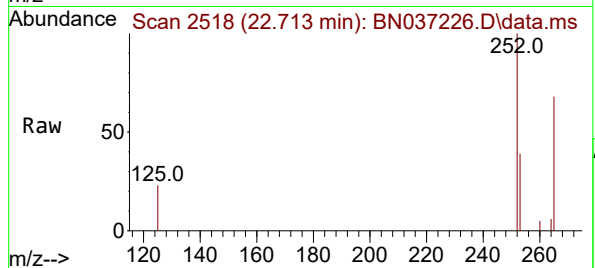
Tgt Ion:252 Resp: 1296

Ion Ratio Lower Upper

252 100

253 39.4 24.9 37.3#

125 23.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 0.179 ng

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

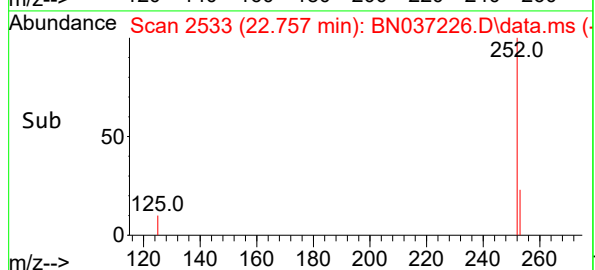
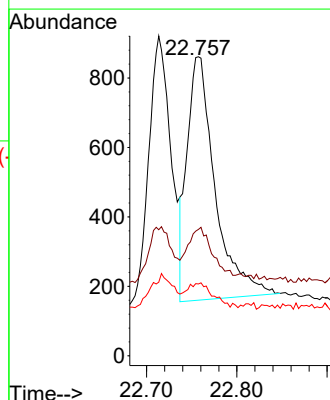
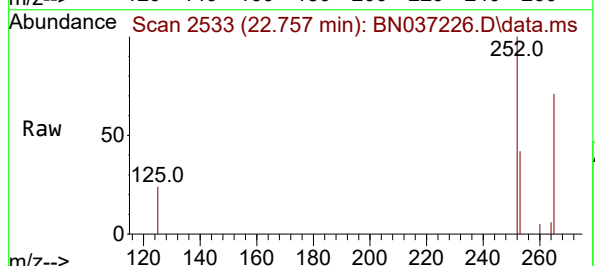
Tgt Ion:252 Resp: 1512

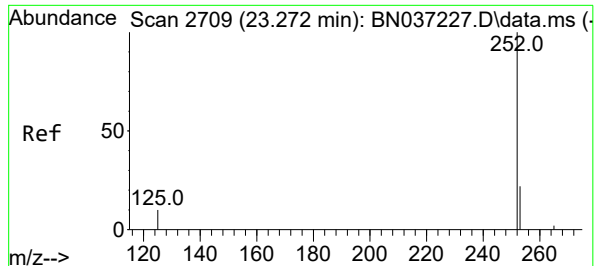
Ion Ratio Lower Upper

252 100

253 42.3 24.6 37.0#

125 24.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.184 ng

RT: 23.275 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

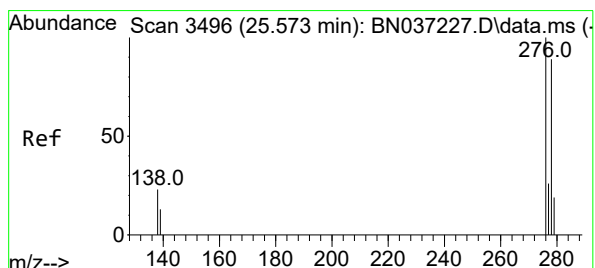
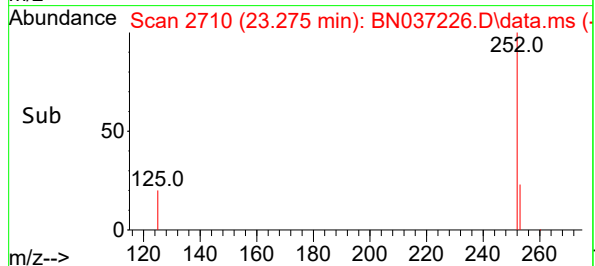
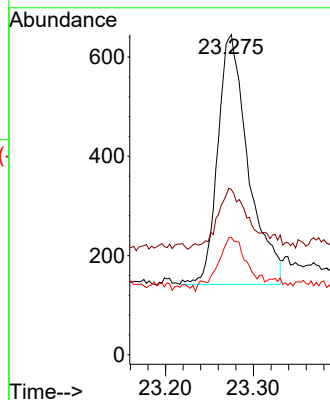
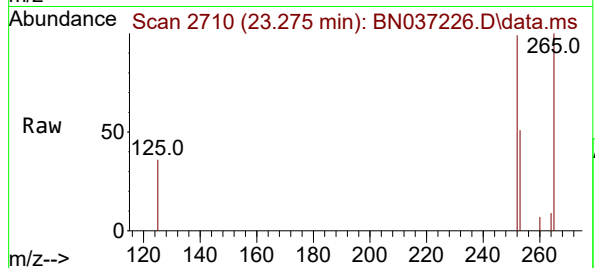
Tgt Ion:252 Resp: 1215

Ion Ratio Lower Upper

252 100

253 51.6 29.4 44.2#

125 36.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.181 ng

RT: 25.576 min Scan# 3497

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

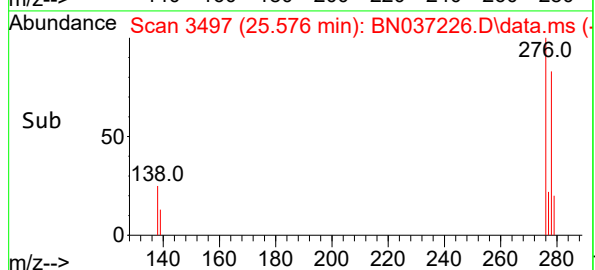
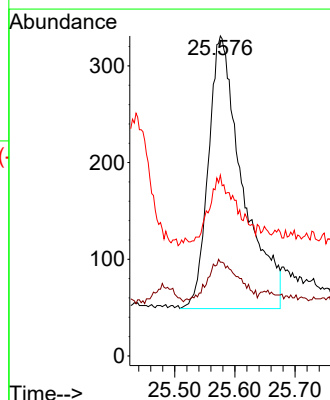
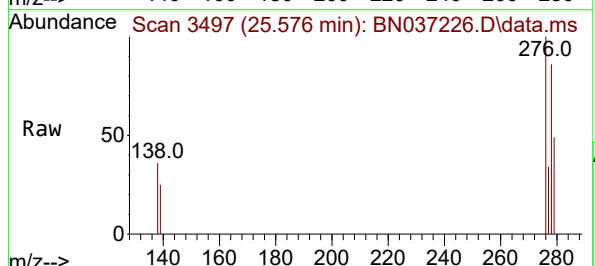
Tgt Ion:278 Resp: 1109

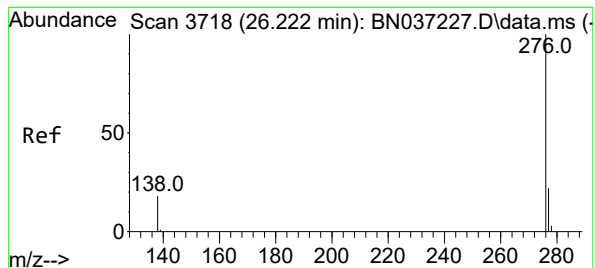
Ion Ratio Lower Upper

278 100

139 29.3 17.8 26.6#

279 56.5 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.225 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037226.D

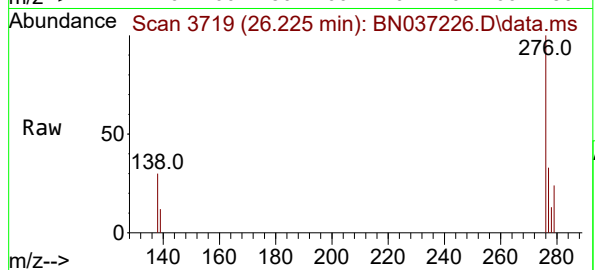
Acq: 13 Jun 2025 14:10

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



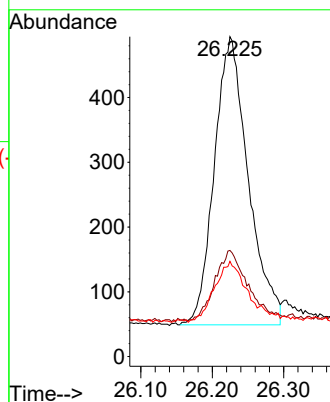
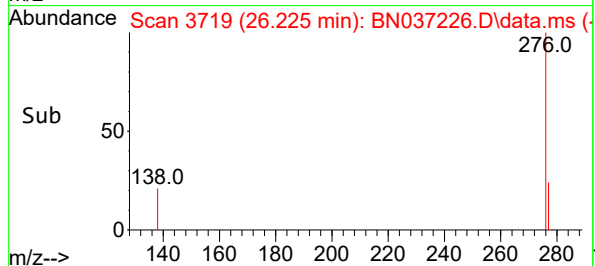
Tgt Ion:276 Resp: 1469

Ion Ratio Lower Upper

276 100

277 33.2 22.0 33.0#

138 29.8 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037227.D
 Acq On : 13 Jun 2025 14:46
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

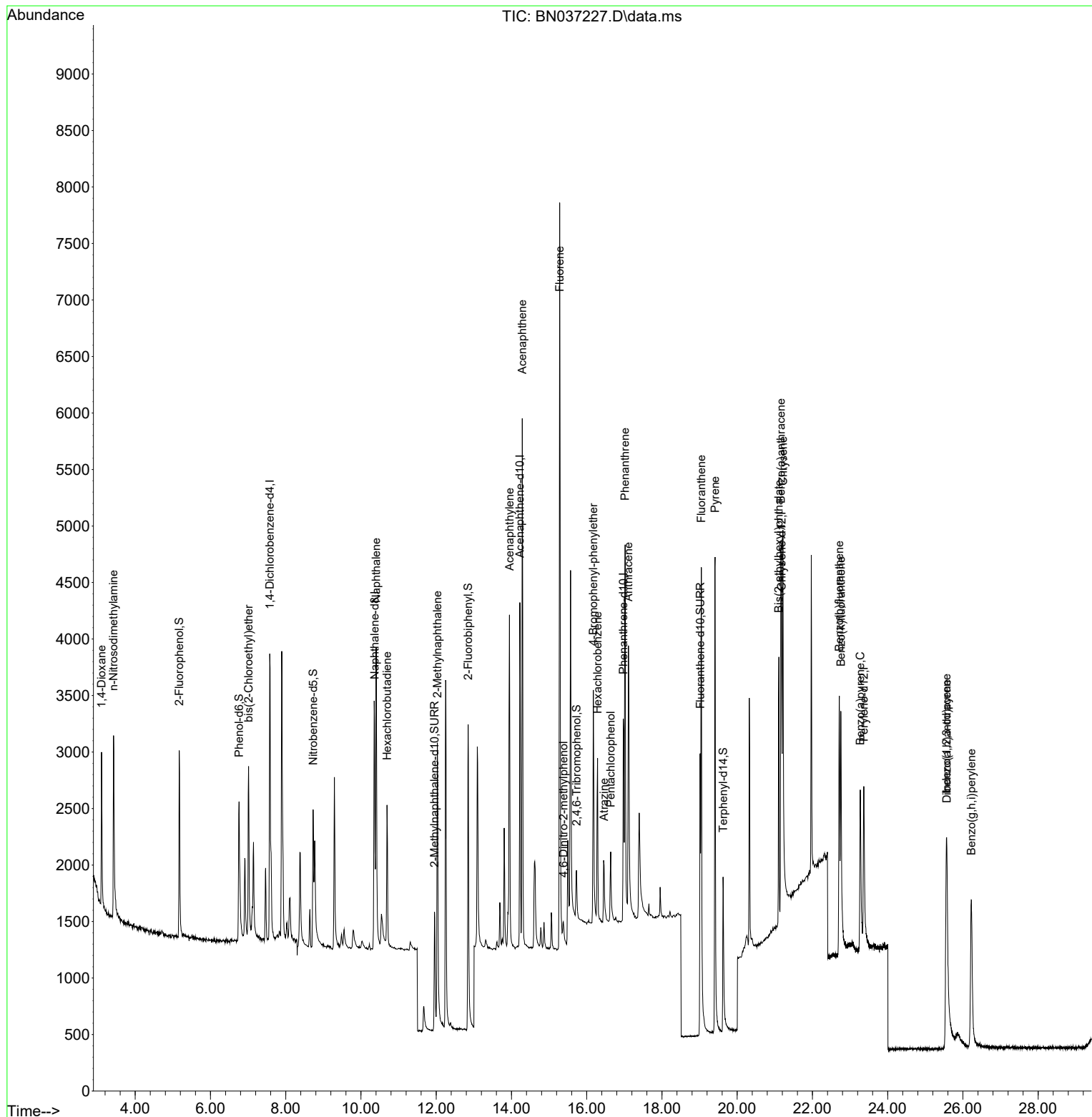
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1287	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	3210	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1738	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3195	0.400	ng	0.00
29) Chrysene-d12	21.179	240	2284	0.400	ng	0.00
35) Perylene-d12	23.365	264	2150	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1212	0.383	ng	0.00
5) Phenol-d6	6.759	99	1239	0.372	ng	0.00
8) Nitrobenzene-d5	8.728	82	1234	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1787	0.415	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	298	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2952	0.404	ng	0.00
27) Fluoranthene-d10	19.017	212	3364	0.402	ng	0.00
31) Terphenyl-d14	19.625	244	2160	0.418	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	676	0.383	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.422	42	1644	0.409	ng	100
6) bis(2-Chloroethyl)ether	7.011	93	1120	0.375	ng	100
9) Naphthalene	10.404	128	3636	0.391	ng	100
10) Hexachlorobutadiene	10.692	225	968	0.428	ng	# 100
12) 2-Methylnaphthalene	12.031	142	2261	0.400	ng	100
16) Acenaphthylene	13.946	152	3250	0.382	ng	100
17) Acenaphthene	14.288	154	2155	0.392	ng	100
18) Fluorene	15.282	166	2768	0.392	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	211	0.368	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	780	0.375	ng	100
22) Hexachlorobenzene	16.289	284	994	0.412	ng	100
23) Atrazine	16.462	200	710	0.382	ng	100
24) Pentachlorophenol	16.636	266	397	0.336	ng	100
25) Phenanthrene	17.021	178	3790	0.374	ng	100
26) Anthracene	17.108	178	3450	0.372	ng	100
28) Fluoranthene	19.045	202	4510	0.380	ng	100
30) Pyrene	19.412	202	4482	0.417	ng	100
32) Benzo(a)anthracene	21.162	228	2798	0.363	ng	100
33) Chrysene	21.215	228	3871	0.403	ng	100
34) Bis(2-ethylhexyl)phtha...	21.108	149	2338	0.407	ng	100
36) Indeno(1,2,3-cd)pyrene	25.561	276	3239	0.374	ng	100
37) Benzo(b)fluoranthene	22.713	252	2958	0.376	ng	100
38) Benzo(k)fluoranthene	22.754	252	3501	0.388	ng	100
39) Benzo(a)pyrene	23.272	252	2653	0.375	ng	100
40) Dibenzo(a,h)anthracene	25.573	278	2256	0.345	ng	100
41) Benzo(g,h,i)perylene	26.222	276	3099	0.385	ng	100

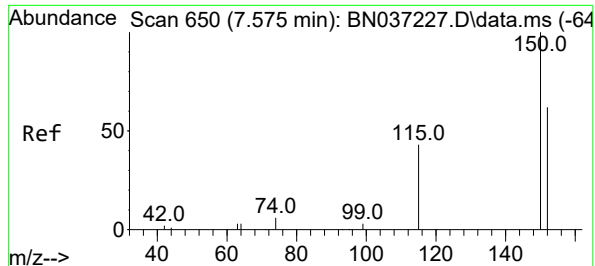
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037227.D
Acq On : 13 Jun 2025 14:46
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

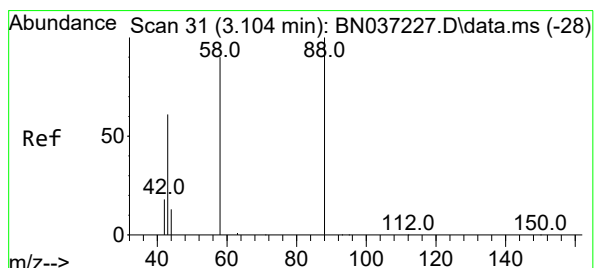
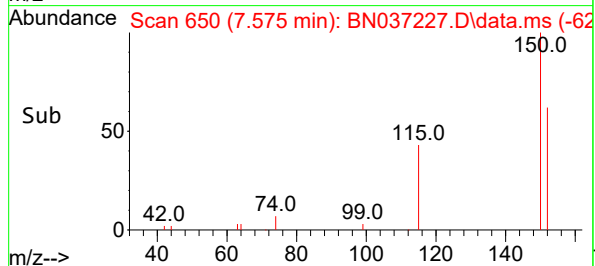
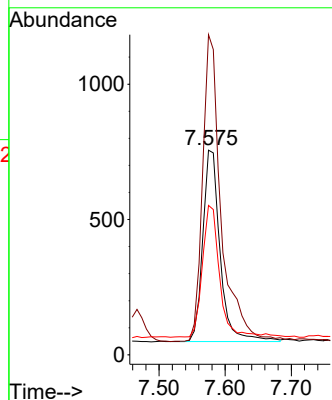
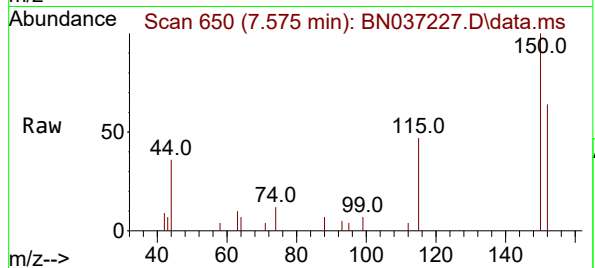




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

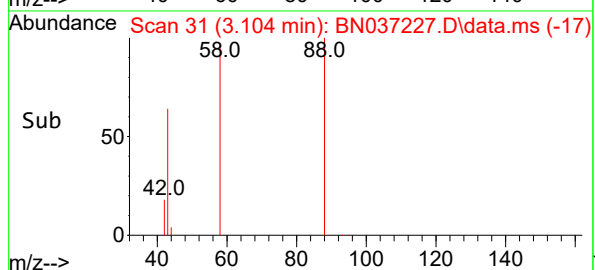
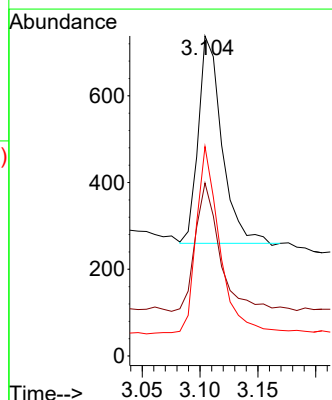
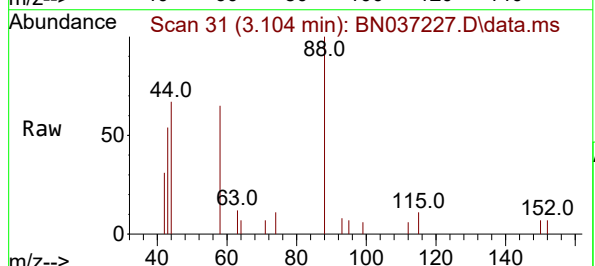
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

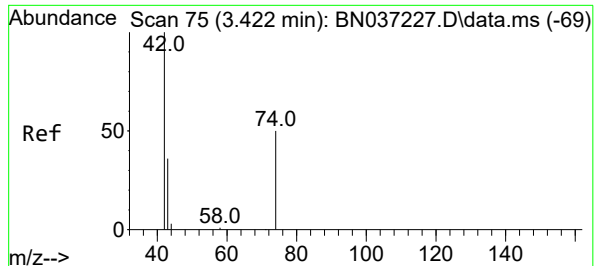
Tgt Ion:152 Resp: 1287
Ion Ratio Lower Upper
152 100
150 156.5 125.2 187.8
115 73.0 58.4 87.6



#2
1,4-Dioxane
Concen: 0.383 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 88 Resp: 676
Ion Ratio Lower Upper
88 100
43 65.8 52.6 79.0
58 91.9 73.5 110.3

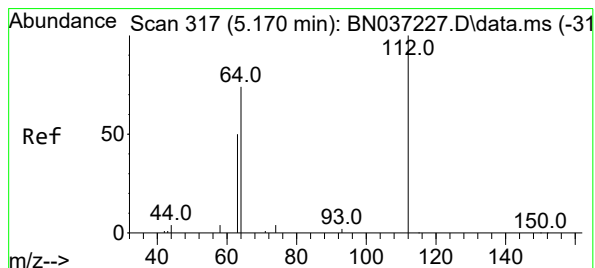
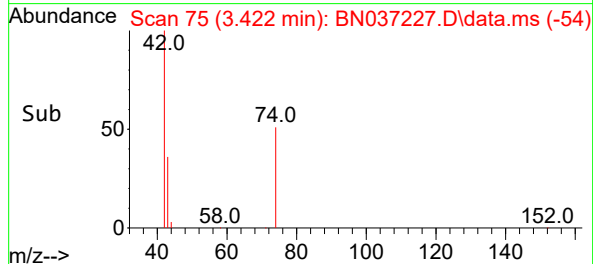
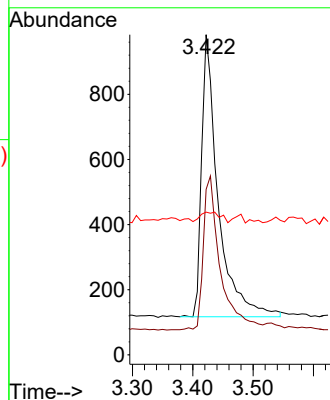
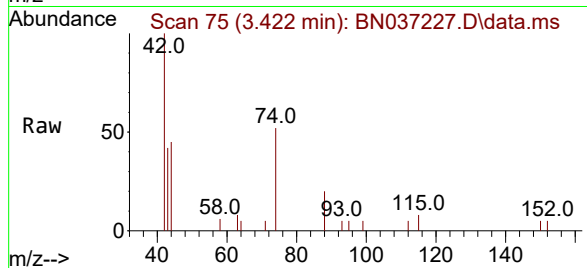




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

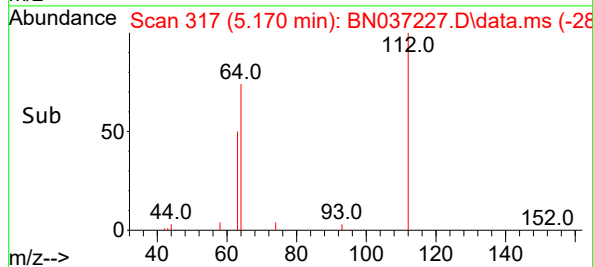
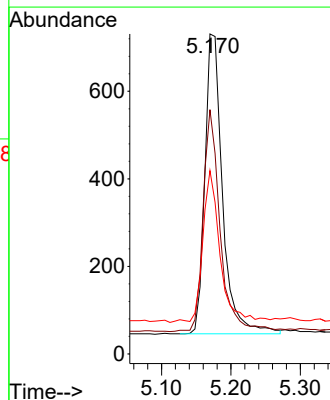
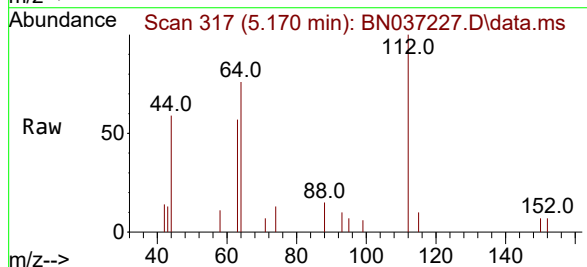
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

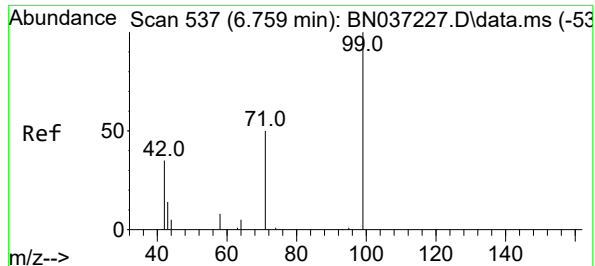
Tgt Ion: 42 Resp: 1644
Ion Ratio Lower Upper
42 100
74 55.7 44.6 66.8
44 4.4 3.5 5.3



#4
2-Fluorophenol
Concen: 0.383 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion: 112 Resp: 1212
Ion Ratio Lower Upper
112 100
64 71.5 57.2 85.8
63 49.7 39.8 59.6

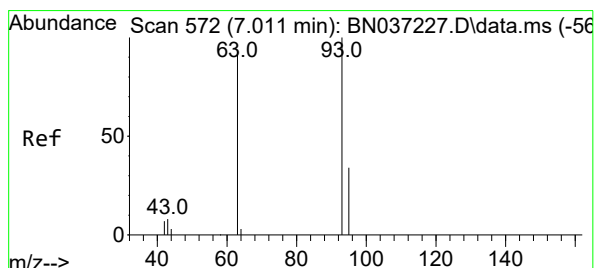
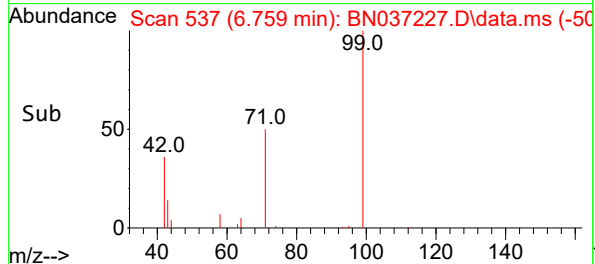
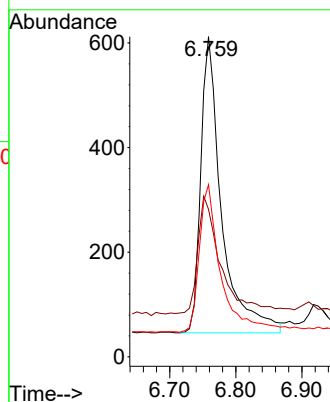
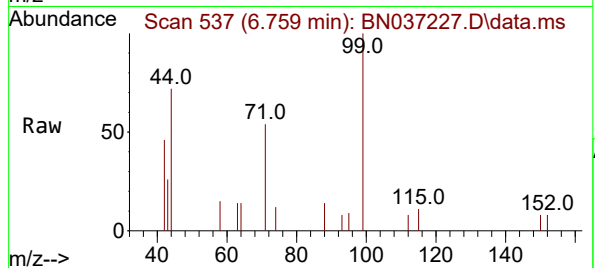




#5
Phenol-d6
Concen: 0.372 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

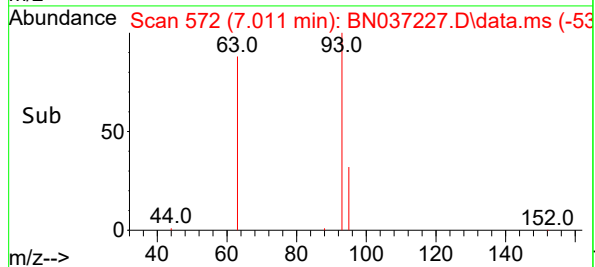
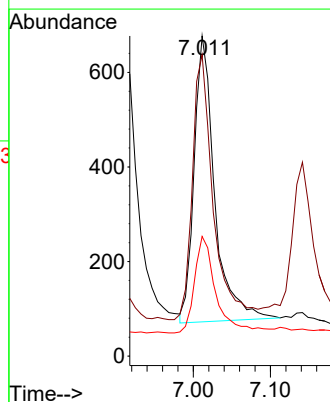
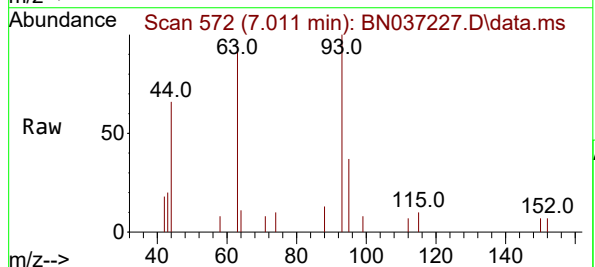
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

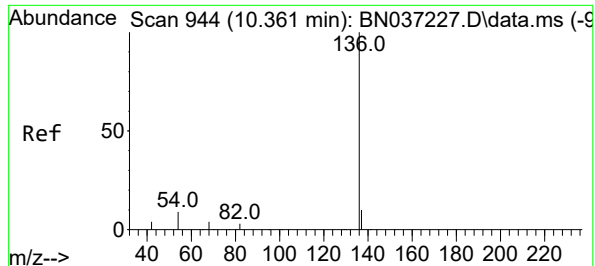
Tgt Ion	Ratio	Lower	Upper
99	100		
42	45.3	36.2	54.4
71	53.0	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.375 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
93	100		
63	94.0	75.2	112.8
95	35.4	28.3	42.5

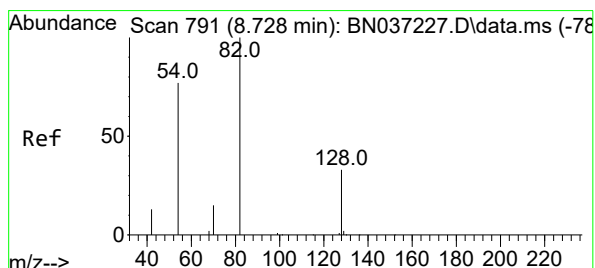
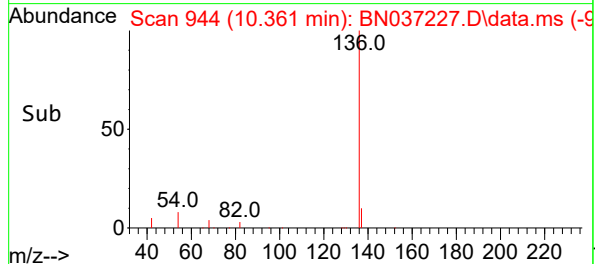
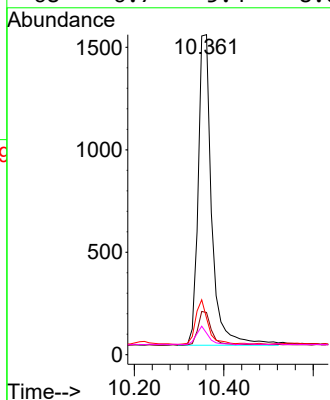
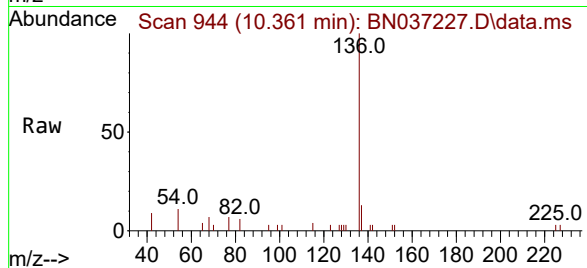




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

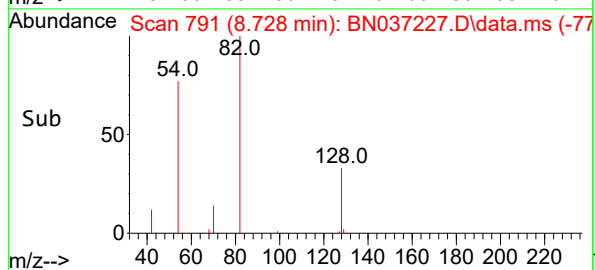
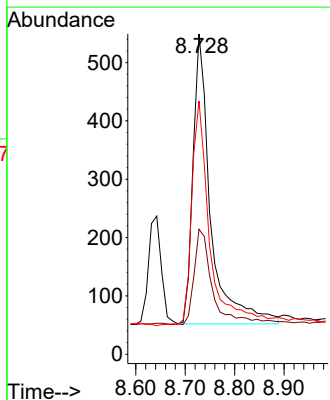
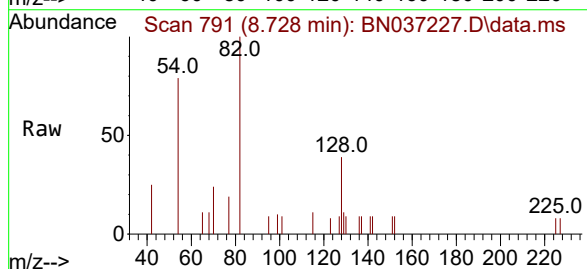
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

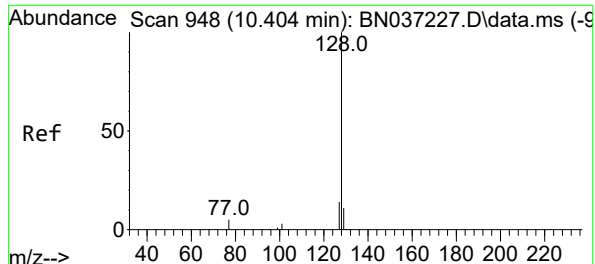
Tgt Ion:	136	Resp:	3210
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	11.5	9.2	13.8
68	6.7	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:	82	Resp:	1234
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	79.1	63.3	94.9

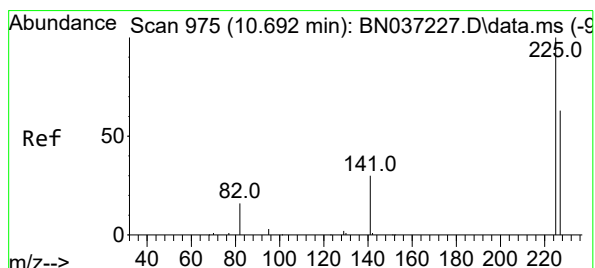
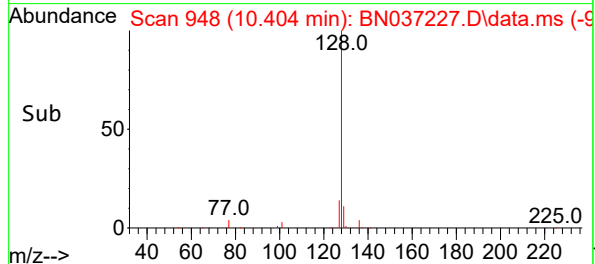
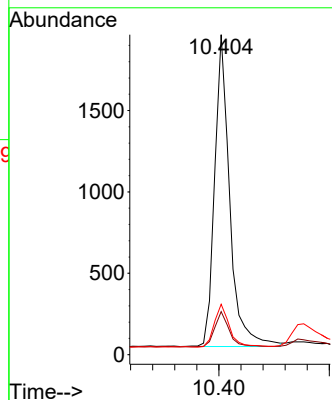
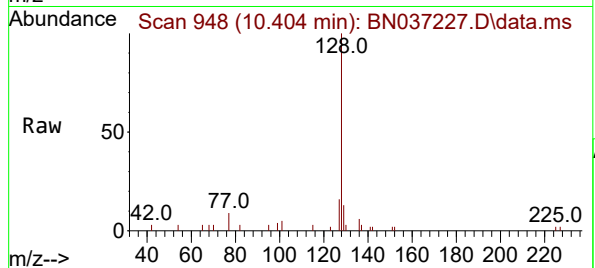




#9
Naphthalene
Concen: 0.391 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

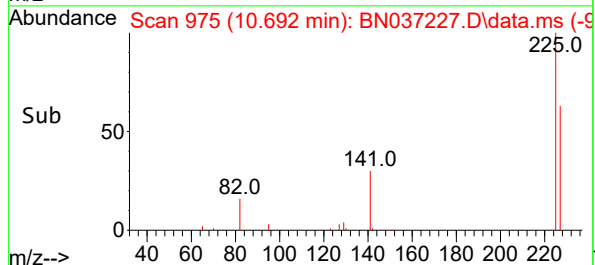
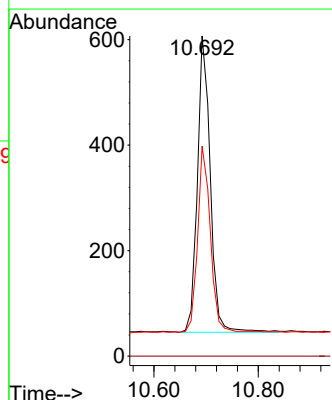
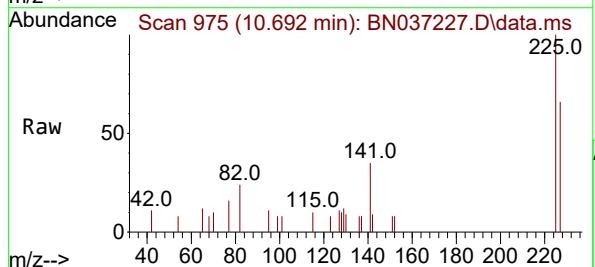
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

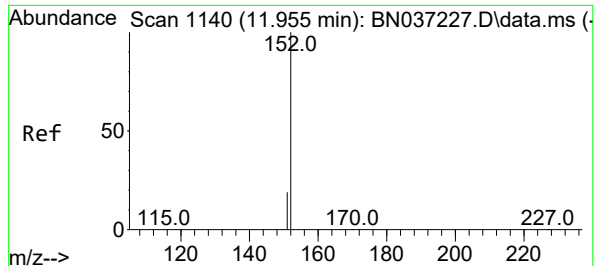
Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.4	10.7	16.1
127	15.8	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	61.6	49.2	73.8

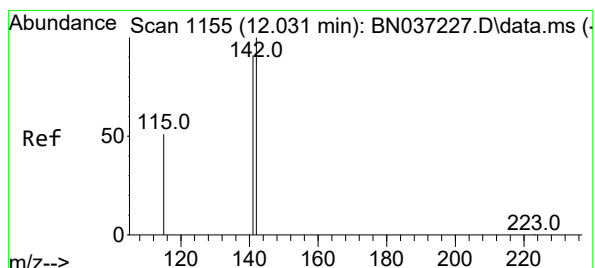
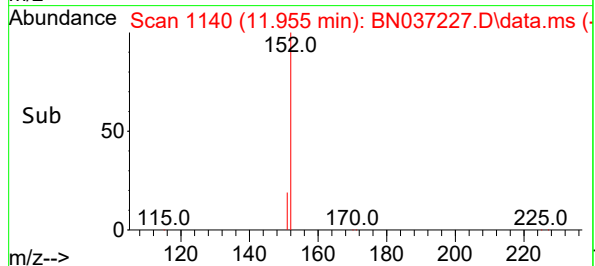
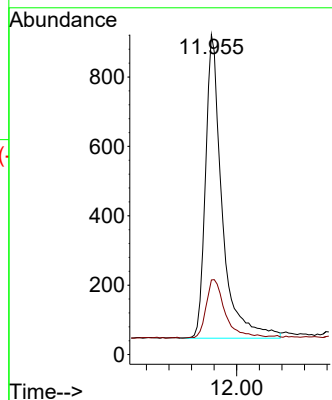
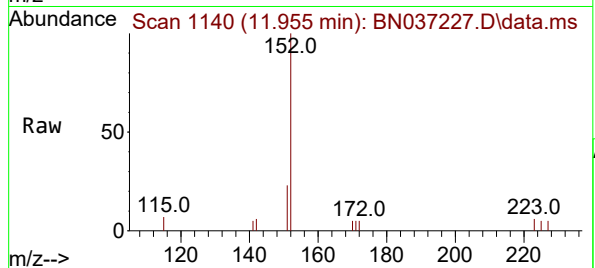




#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

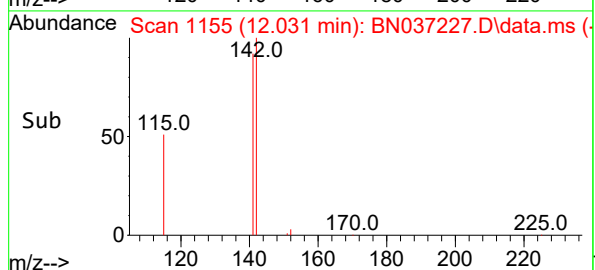
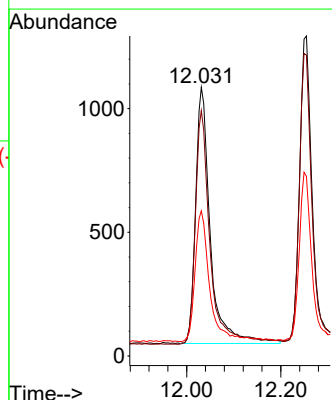
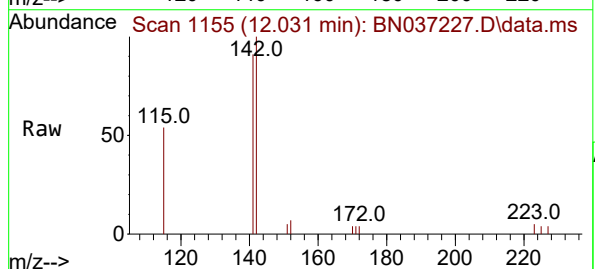
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

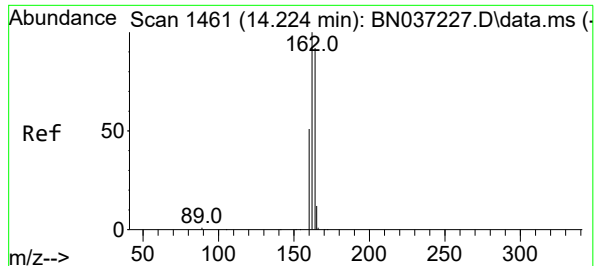
Tgt Ion:152 Resp: 1787
Ion Ratio Lower Upper
152 100
151 22.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.400 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:142 Resp: 2261
Ion Ratio Lower Upper
142 100
141 91.3 73.0 109.6
115 54.1 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

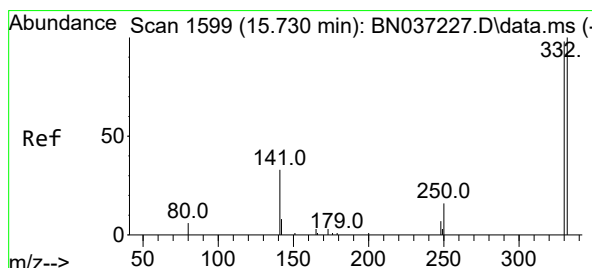
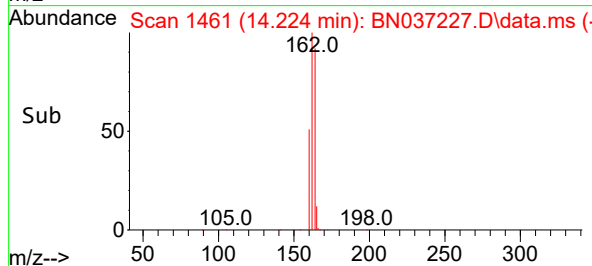
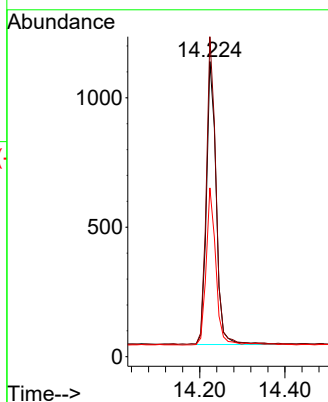
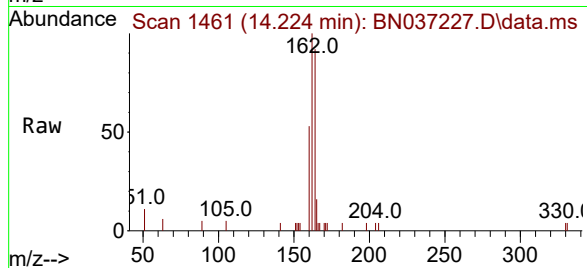
Tgt Ion:164 Resp: 1738

Ion Ratio Lower Upper

164 100

162 108.4 86.7 130.1

160 57.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.413 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

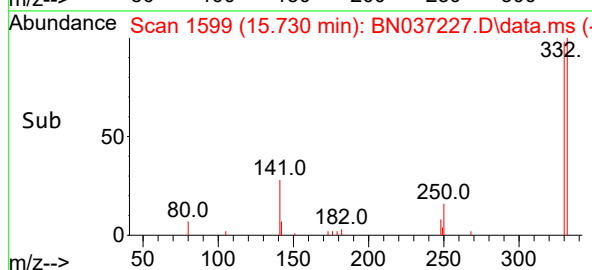
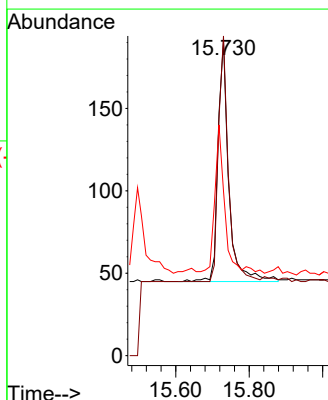
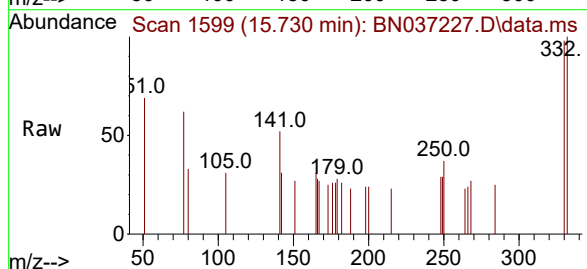
Tgt Ion:330 Resp: 298

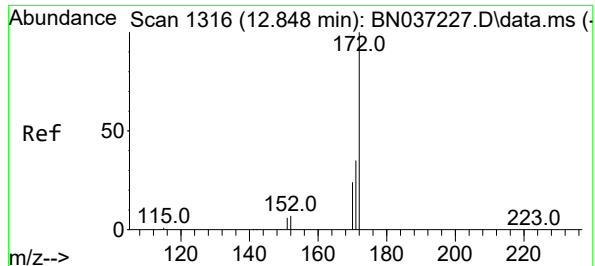
Ion Ratio Lower Upper

330 100

332 93.6 74.9 112.3

141 56.4 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.404 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

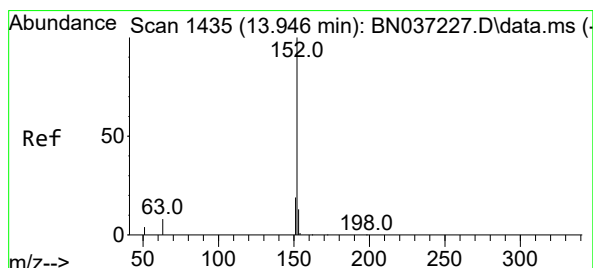
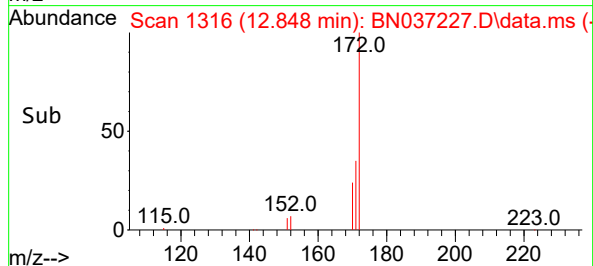
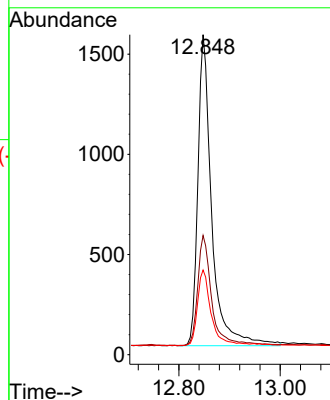
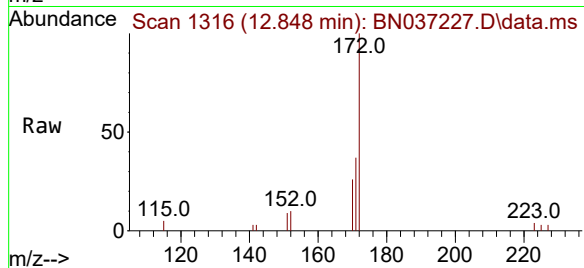
Tgt Ion:172 Resp: 2952

Ion Ratio Lower Upper

172 100

171 37.3 29.8 44.8

170 26.4 21.1 31.7



#16

Acenaphthylene

Concen: 0.382 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

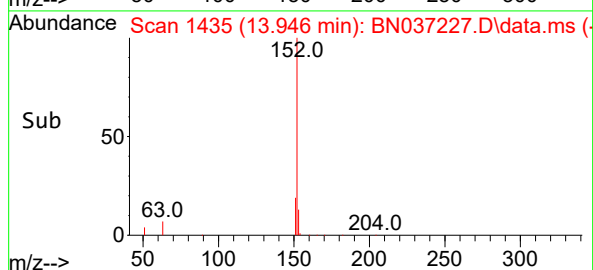
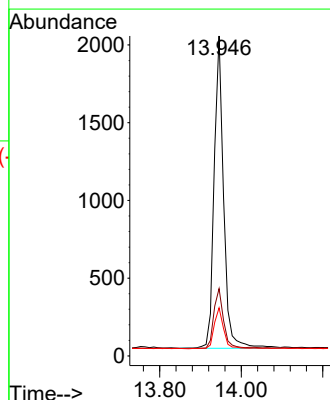
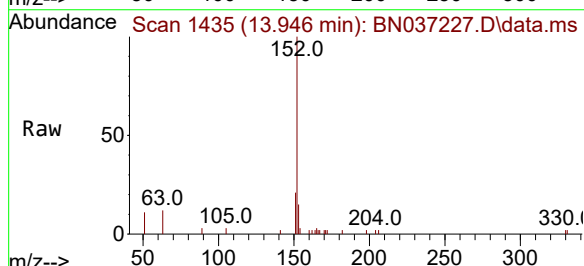
Tgt Ion:152 Resp: 3250

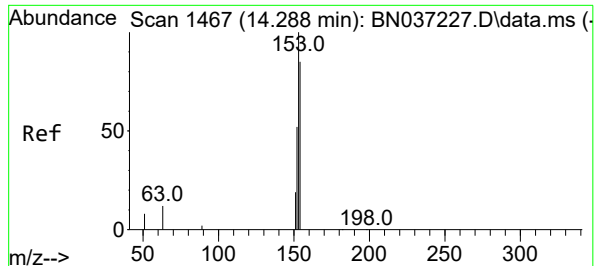
Ion Ratio Lower Upper

152 100

151 19.6 15.7 23.5

153 13.4 10.7 16.1





#17

Acenaphthene

Concen: 0.392 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

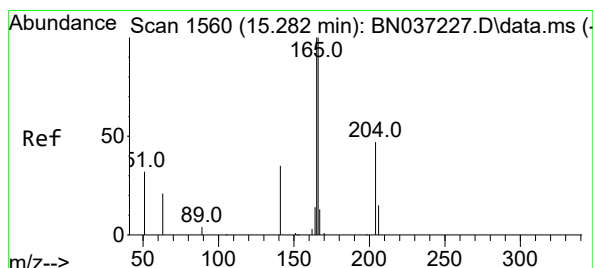
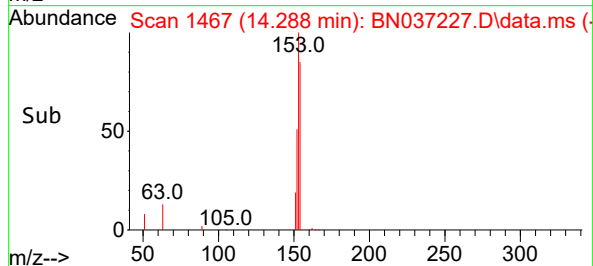
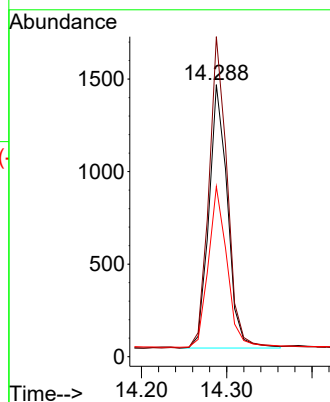
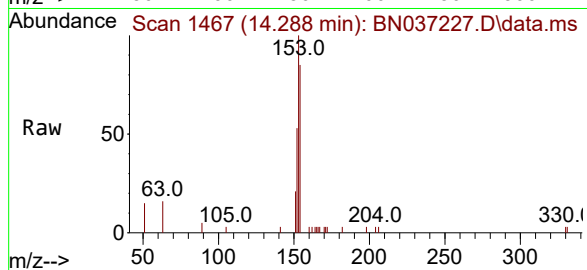
Tgt Ion:154 Resp: 2155

Ion Ratio Lower Upper

154 100

153 118.2 94.6 141.8

152 62.0 49.6 74.4



#18

Fluorene

Concen: 0.392 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

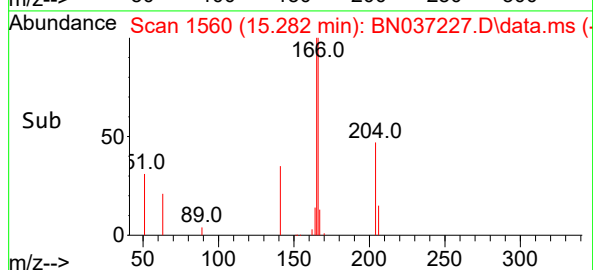
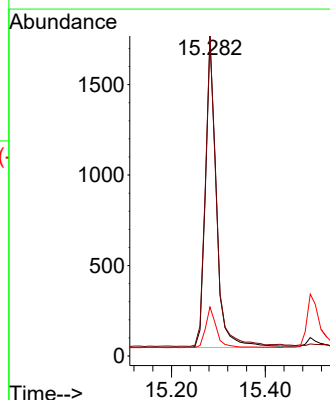
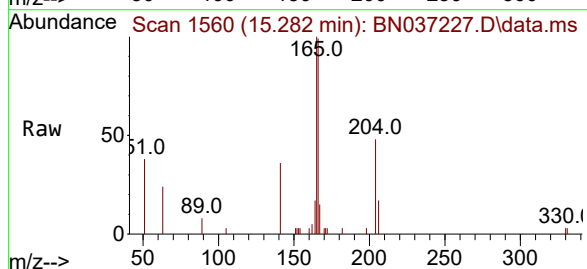
Tgt Ion:166 Resp: 2768

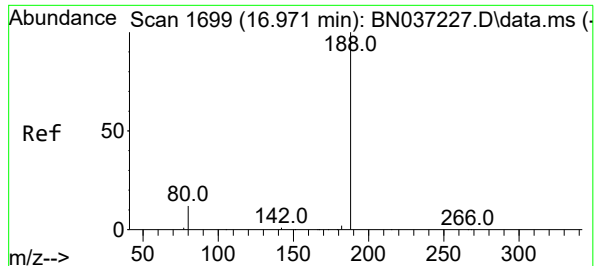
Ion Ratio Lower Upper

166 100

165 99.7 79.8 119.6

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

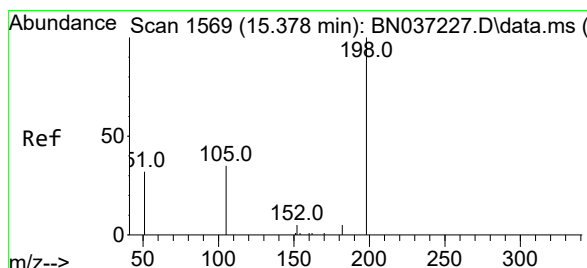
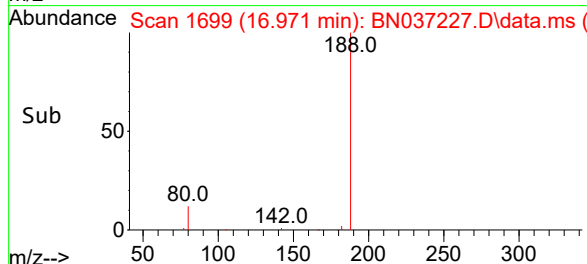
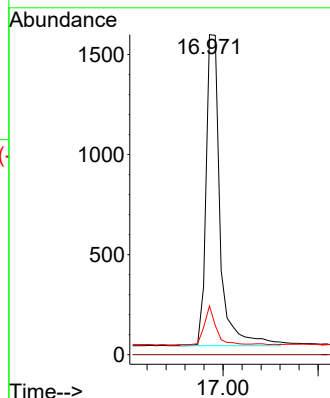
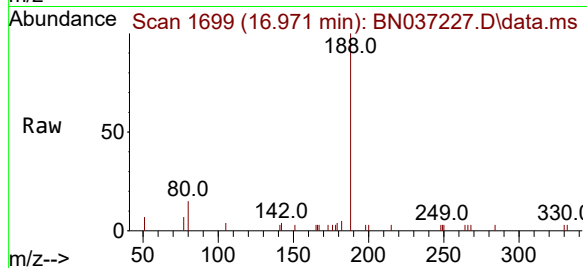
Tgt Ion:188 Resp: 3195

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.3 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.368 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

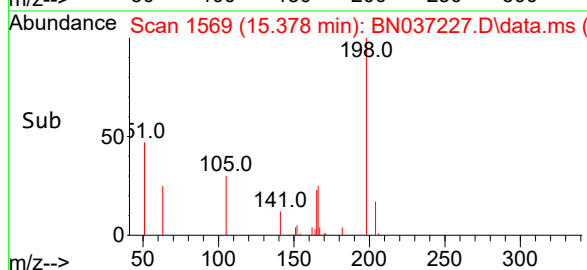
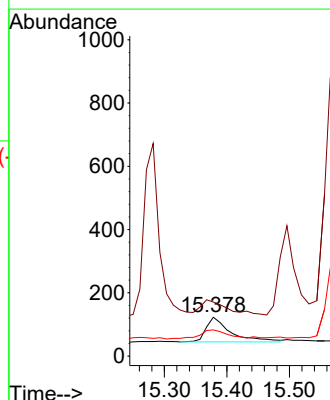
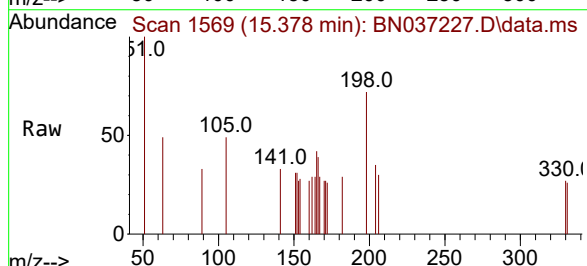
Tgt Ion:198 Resp: 211

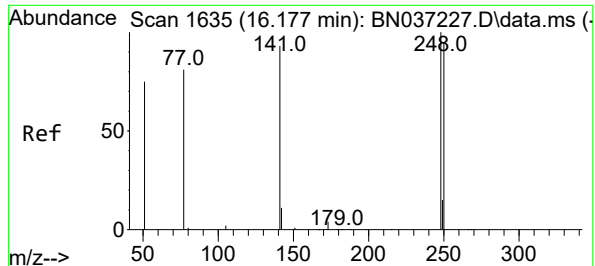
Ion Ratio Lower Upper

198 100

51 139.0 111.2 166.8

105 67.5 54.0 81.0

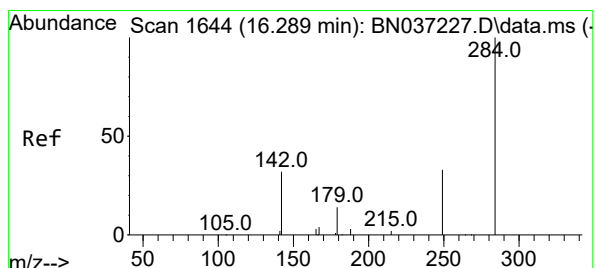
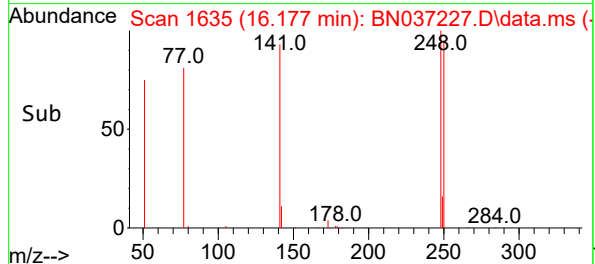
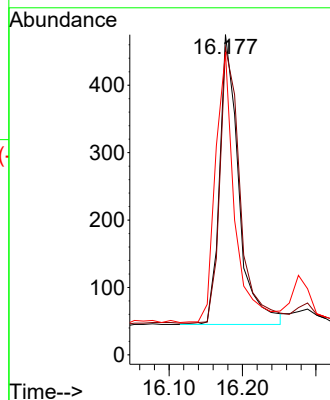
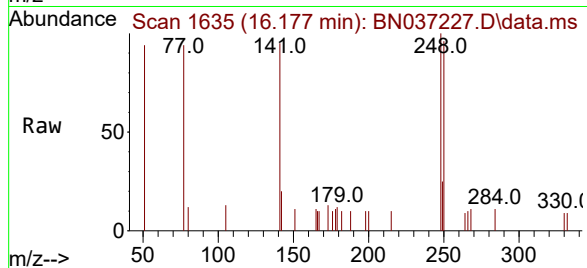




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

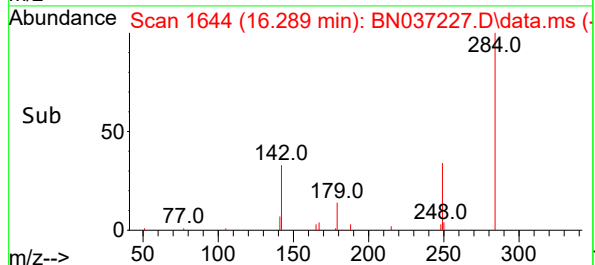
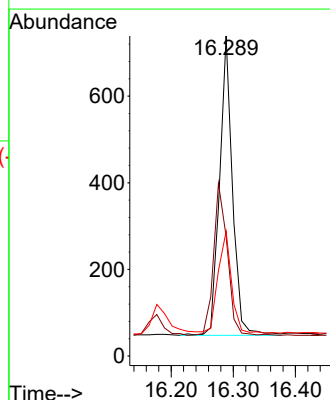
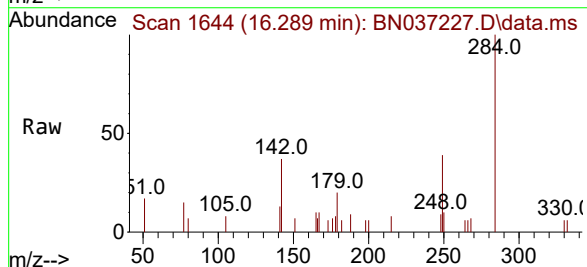
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

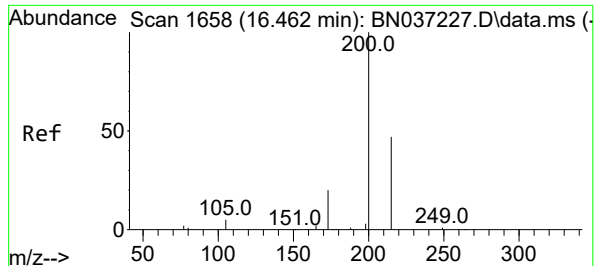
Tgt Ion:248 Resp: 780
Ion Ratio Lower Upper
248 100
250 96.0 76.8 115.2
141 94.5 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion:284 Resp: 994
Ion Ratio Lower Upper
284 100
142 54.7 43.8 65.6
249 35.5 28.4 42.6

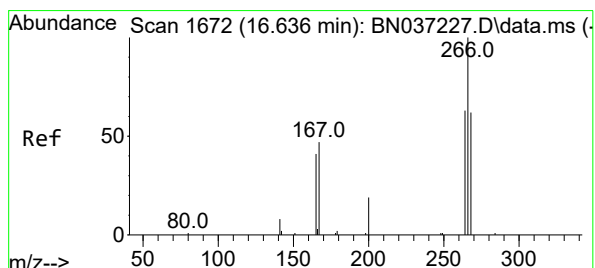
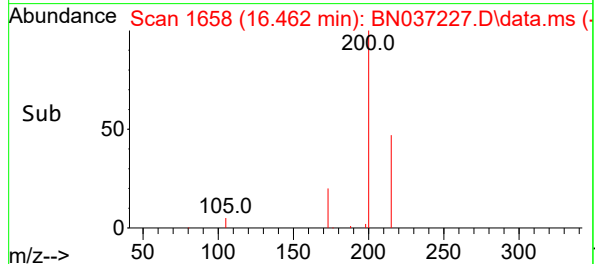
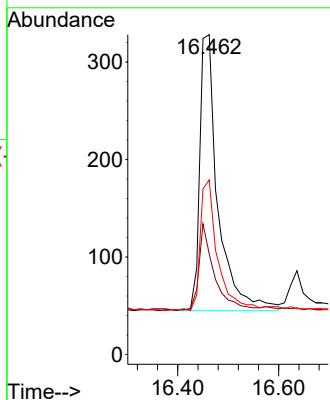
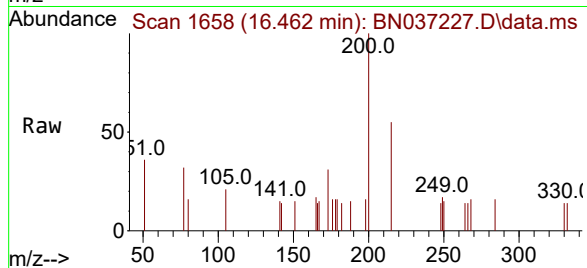




#23
Atrazine
Concen: 0.382 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

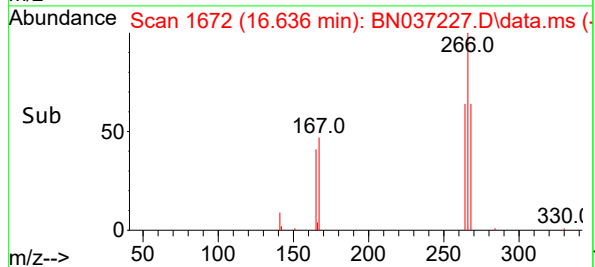
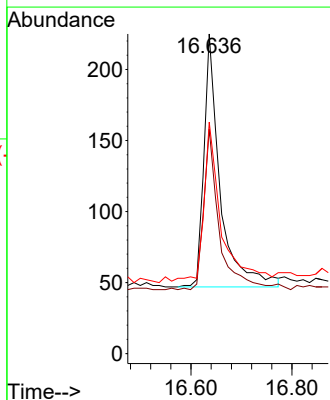
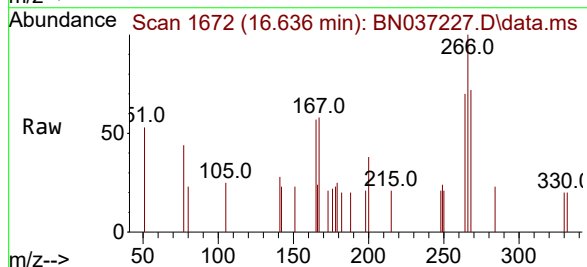
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

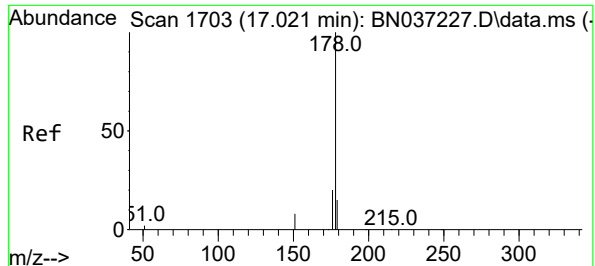
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.4	25.1	37.7
215	54.6	43.7	65.5



#24
Pentachlorophenol
Concen: 0.336 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.5	49.2	73.8
268	66.8	53.4	80.2





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

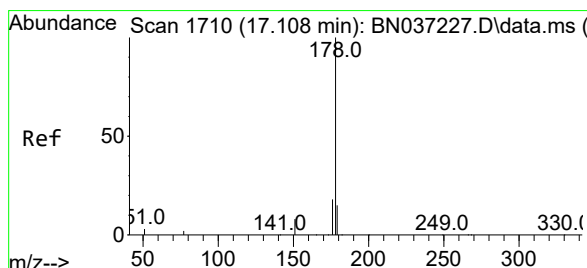
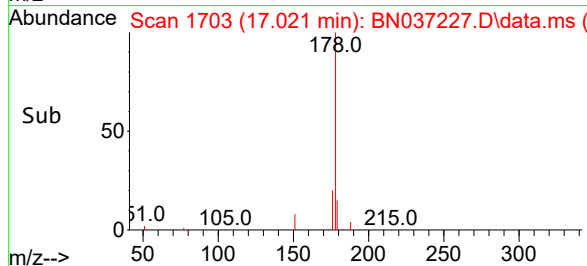
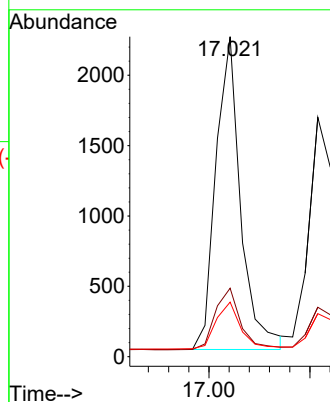
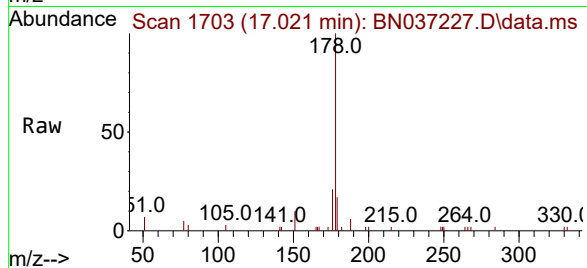
Tgt Ion:178 Resp: 3790

Ion Ratio Lower Upper

178 100

176 20.4 16.3 24.5

179 15.7 12.6 18.8



#26

Anthracene

Concen: 0.372 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

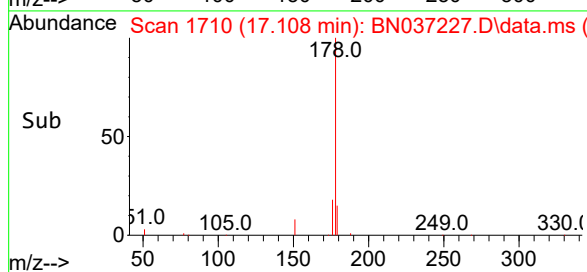
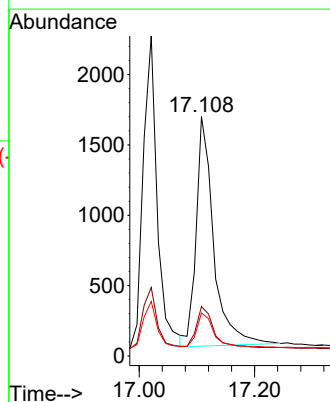
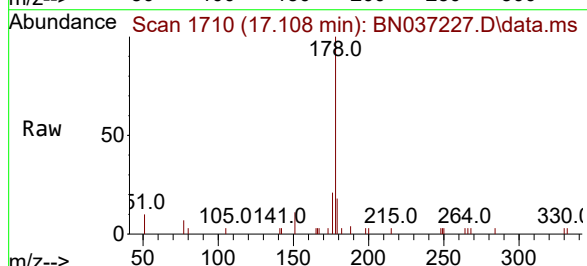
Tgt Ion:178 Resp: 3450

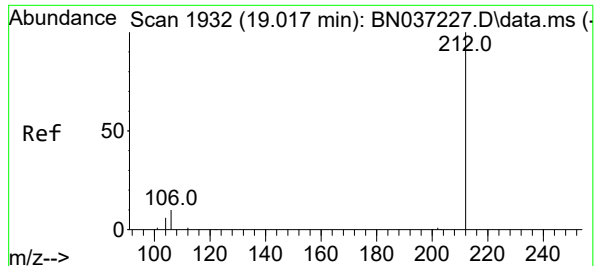
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

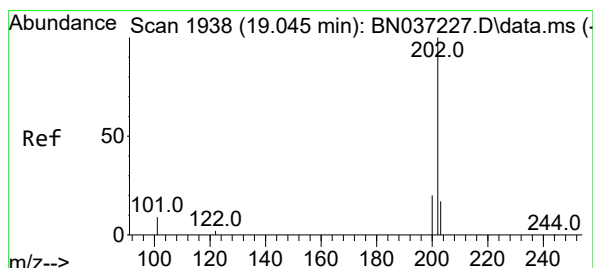
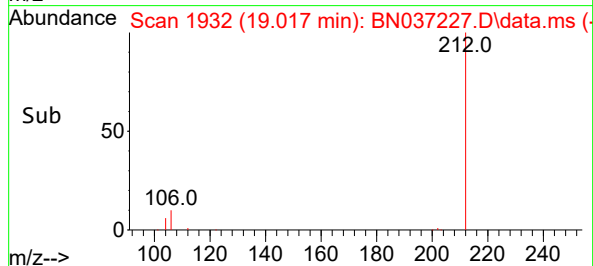
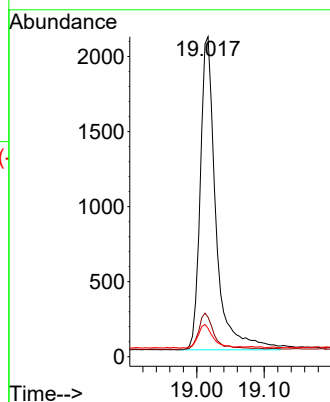
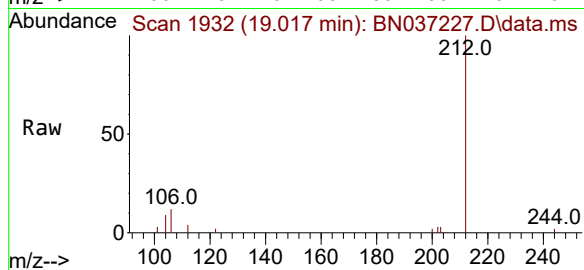
Tgt Ion:212 Resp: 3364

Ion Ratio Lower Upper

212 100

106 11.6 9.3 13.9

104 7.1 5.7 8.5



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

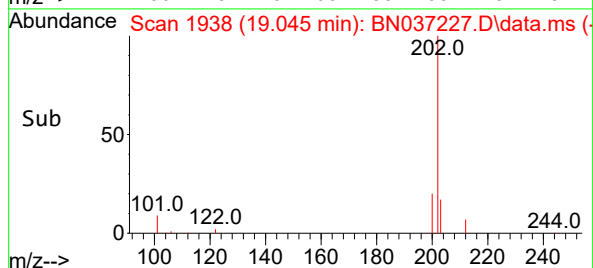
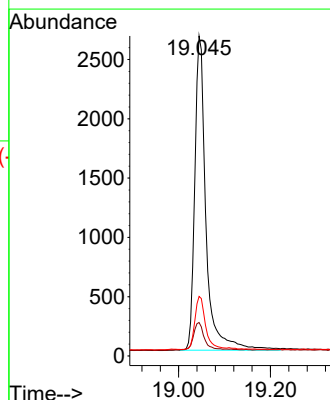
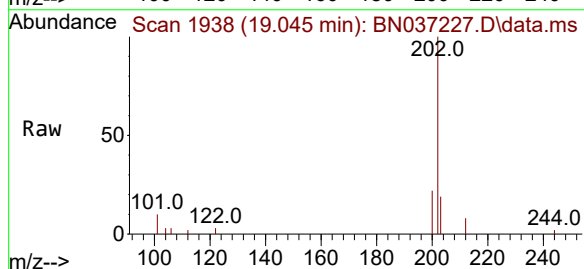
Tgt Ion:202 Resp: 4510

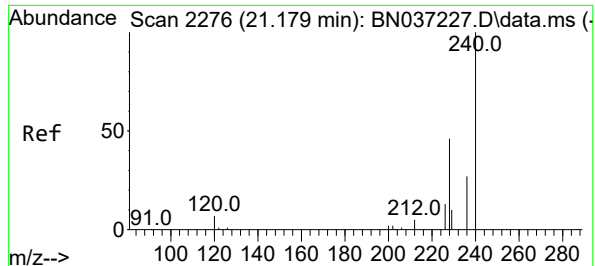
Ion Ratio Lower Upper

202 100

101 8.9 7.1 10.7

203 16.3 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

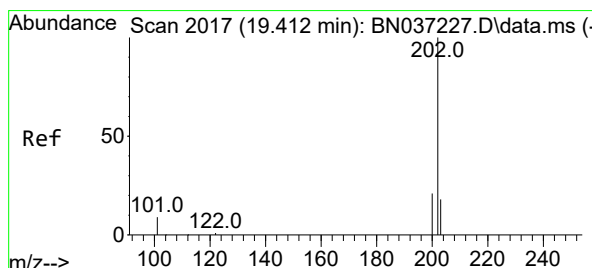
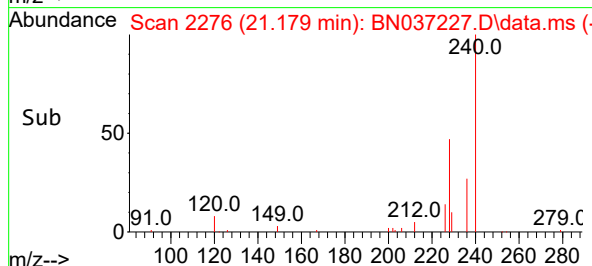
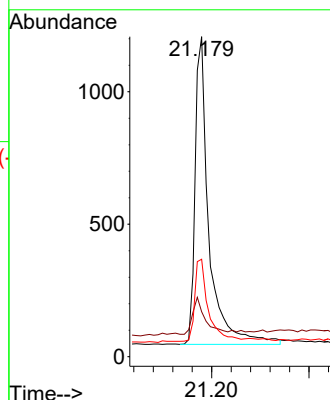
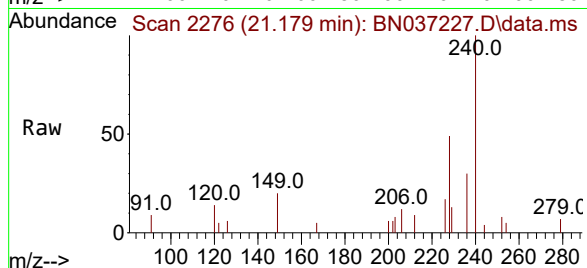
Tgt Ion:240 Resp: 2284

Ion Ratio Lower Upper

240 100

120 14.1 11.3 16.9

236 30.5 24.4 36.6



#30

Pyrene

Concen: 0.417 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

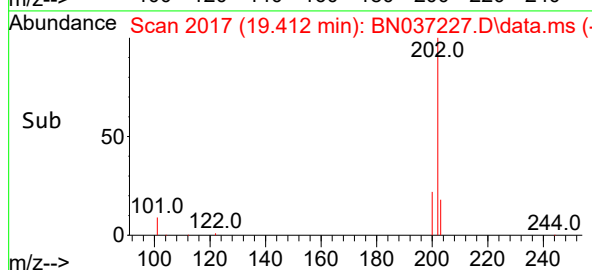
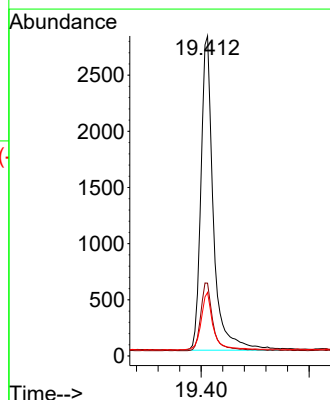
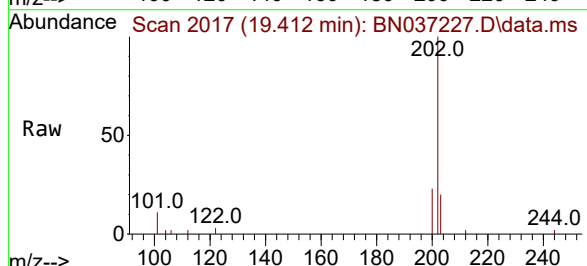
Tgt Ion:202 Resp: 4482

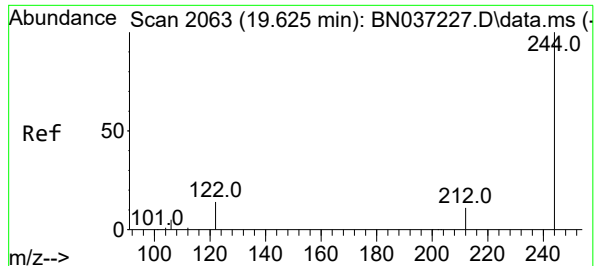
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

203 17.9 14.3 21.5

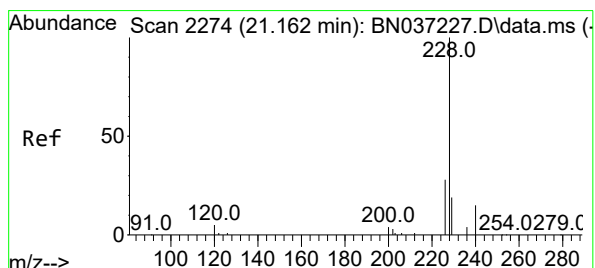
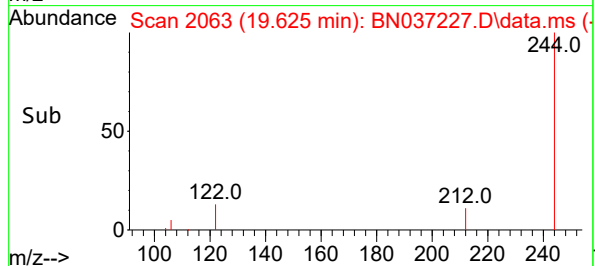
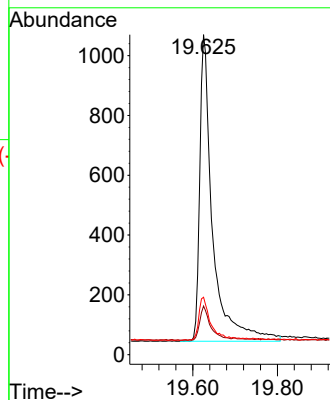
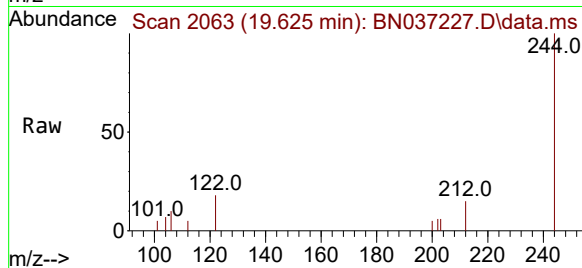




#31
Terphenyl-d14
Concen: 0.418 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

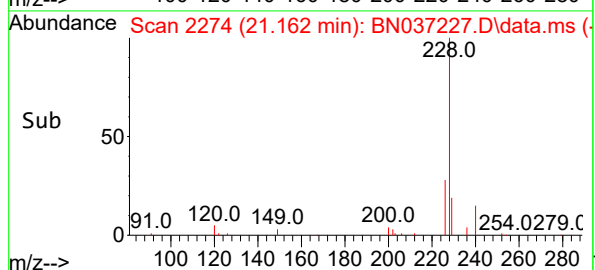
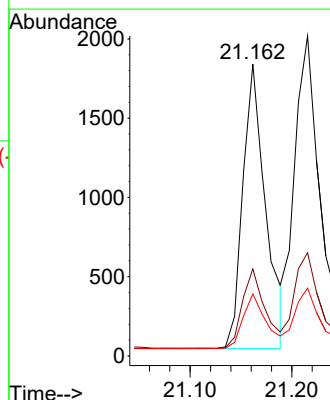
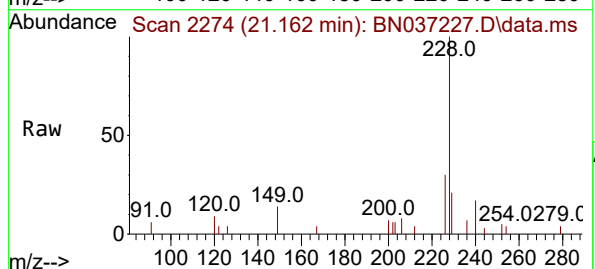
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

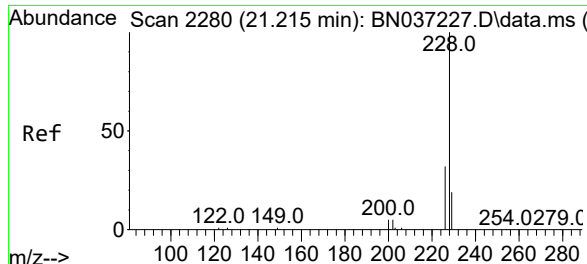
Tgt Ion	Ratio	Lower	Upper
244	100		
212	15.2	12.2	18.2
122	17.9	14.3	21.5



#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	21.2	17.0	25.4

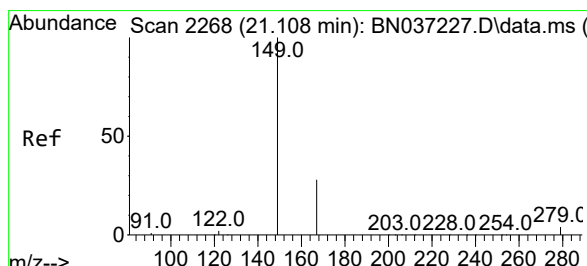
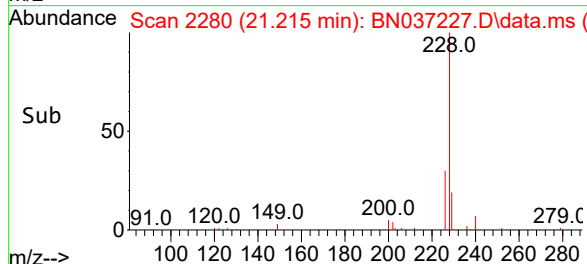
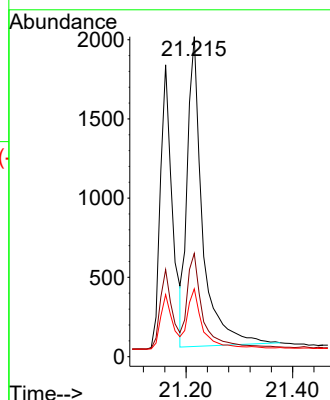
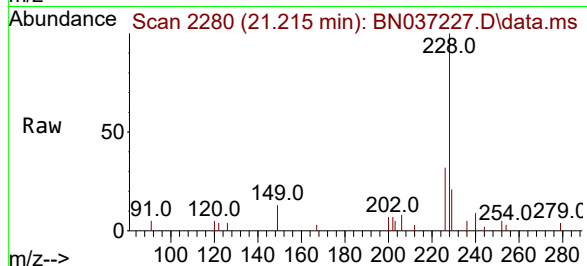




#33
Chrysene
Concen: 0.403 ng
RT: 21.215 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

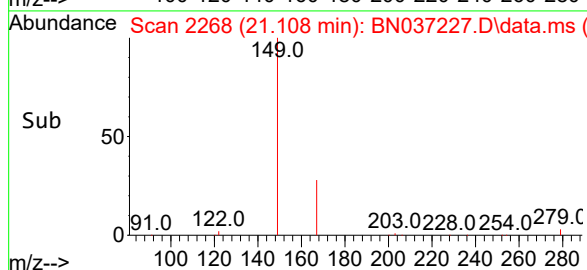
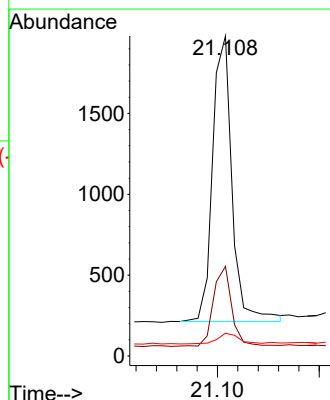
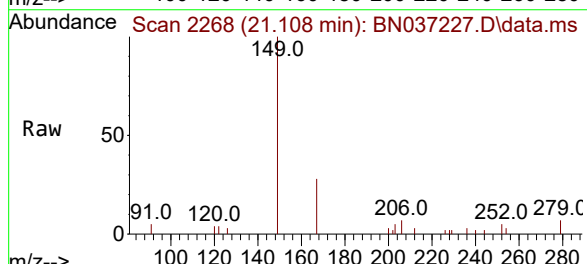
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

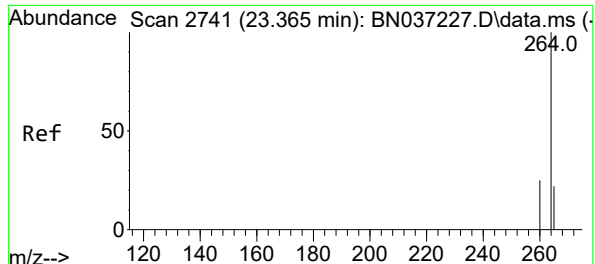
Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.2	25.8	38.6
229	21.2	17.0	25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.407 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037227.D
Acq: 13 Jun 2025 14:46

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.3	31.9
279	4.1	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

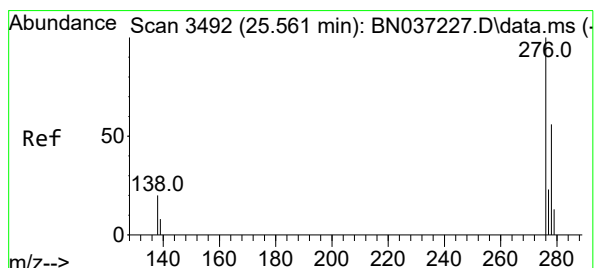
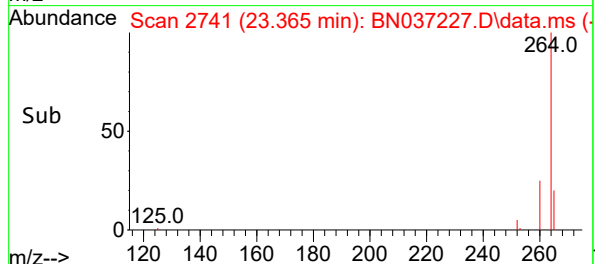
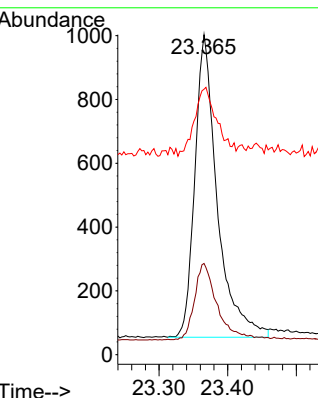
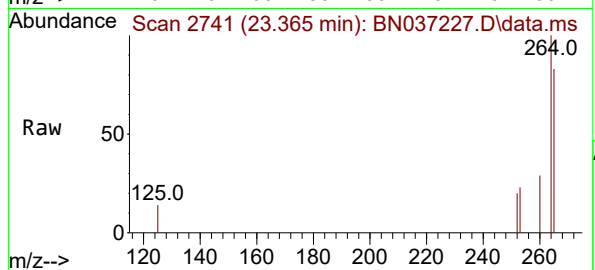
Tgt Ion:264 Resp: 2150

Ion Ratio Lower Upper

264 100

260 28.5 22.8 34.2

265 83.0 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.374 ng

RT: 25.561 min Scan# 3492

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

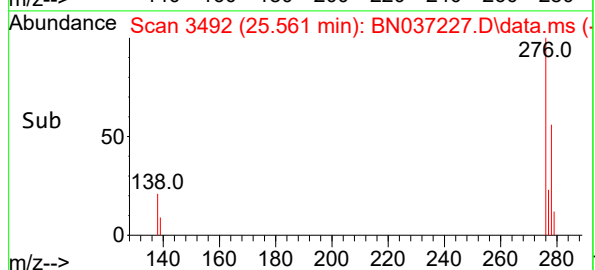
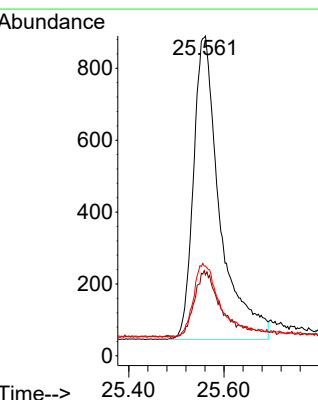
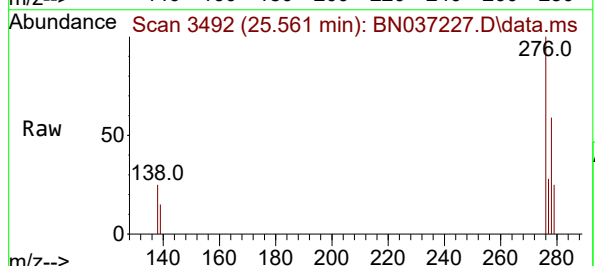
Tgt Ion:276 Resp: 3239

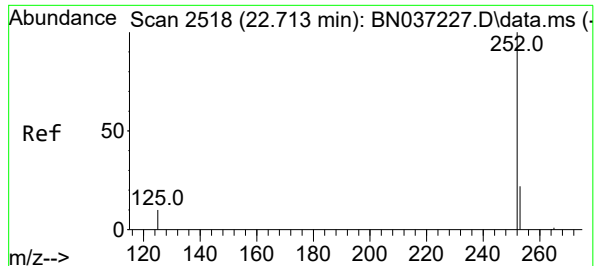
Ion Ratio Lower Upper

276 100

138 21.0 16.8 25.2

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.376 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

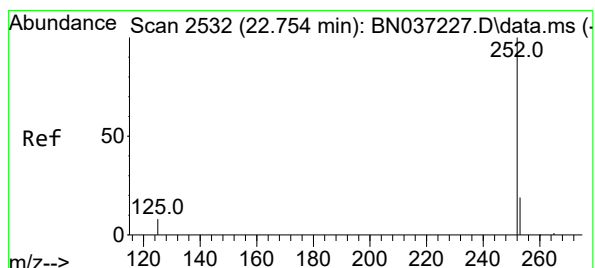
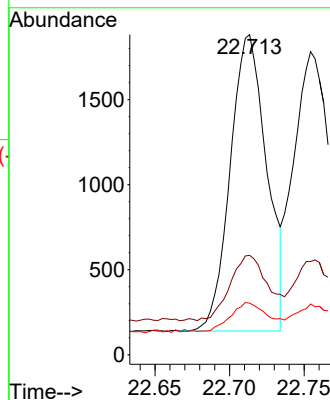
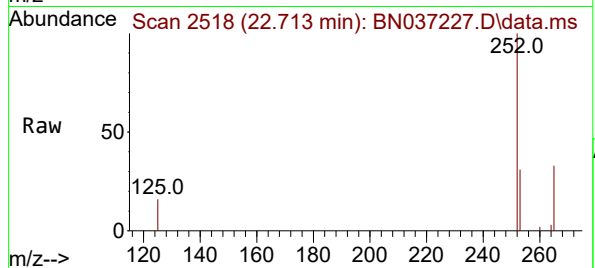
Tgt Ion:252 Resp: 2958

Ion Ratio Lower Upper

252 100

253 31.1 24.9 37.3

125 16.1 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

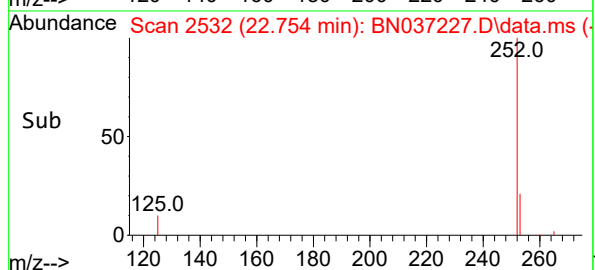
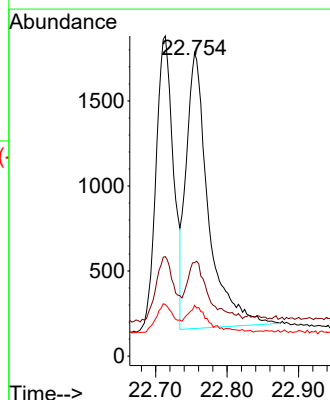
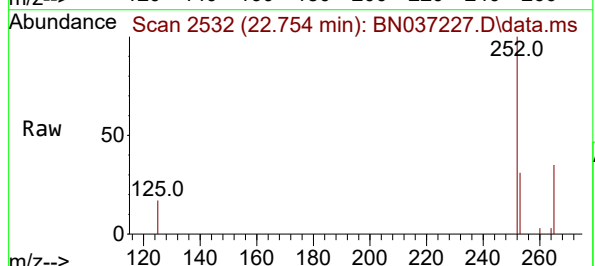
Tgt Ion:252 Resp: 3501

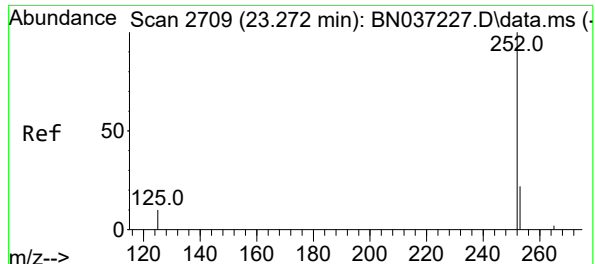
Ion Ratio Lower Upper

252 100

253 30.8 24.6 37.0

125 16.8 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

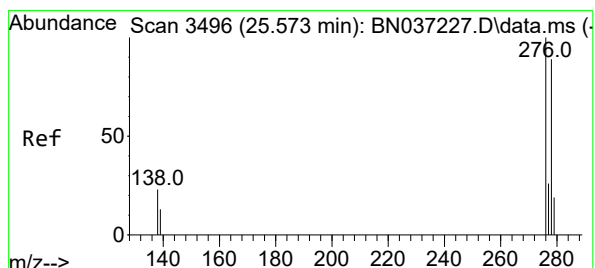
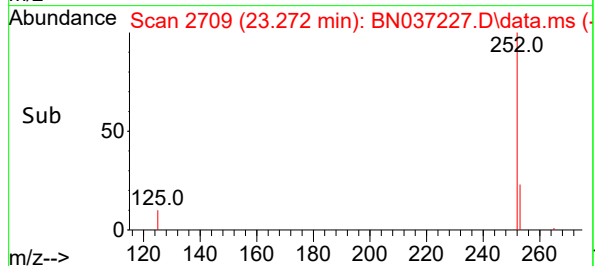
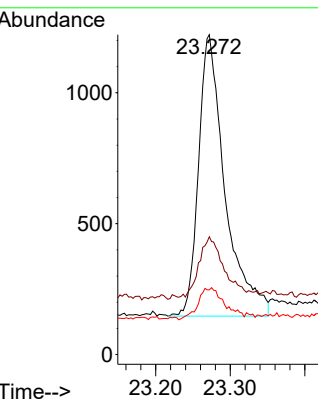
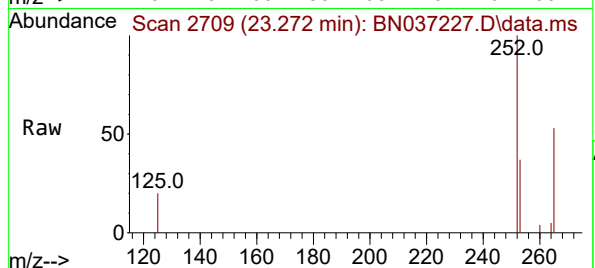
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 36.8 29.4 44.2

125 20.2 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.345 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

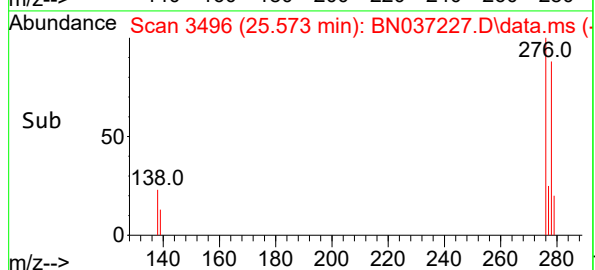
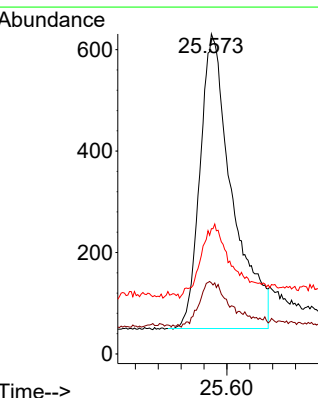
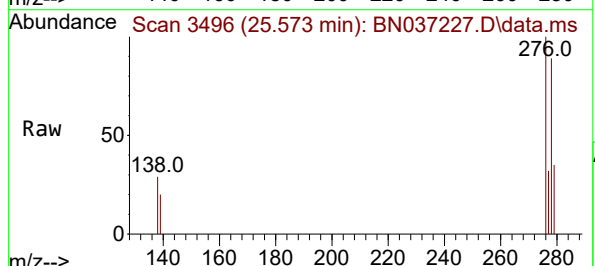
Tgt Ion:278 Resp: 2256

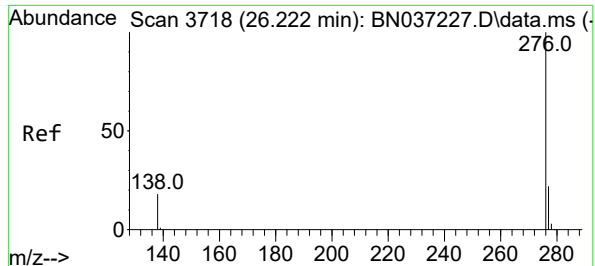
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 39.1 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 26.222 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037227.D

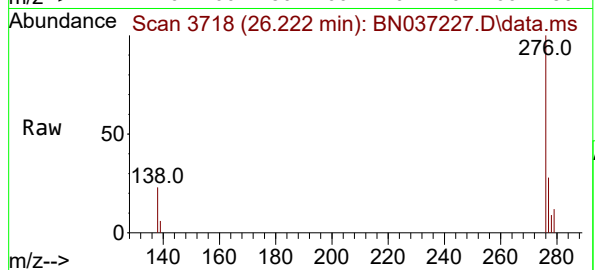
Acq: 13 Jun 2025 14:46

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



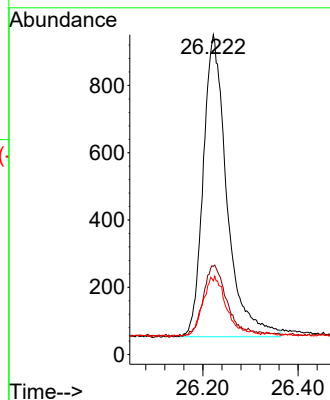
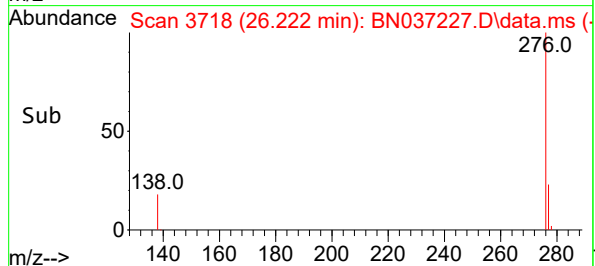
Tgt Ion:276 Resp: 3099

Ion Ratio Lower Upper

276 100

277 27.5 22.0 33.0

138 23.0 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037228.D
 Acq On : 13 Jun 2025 15:22
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

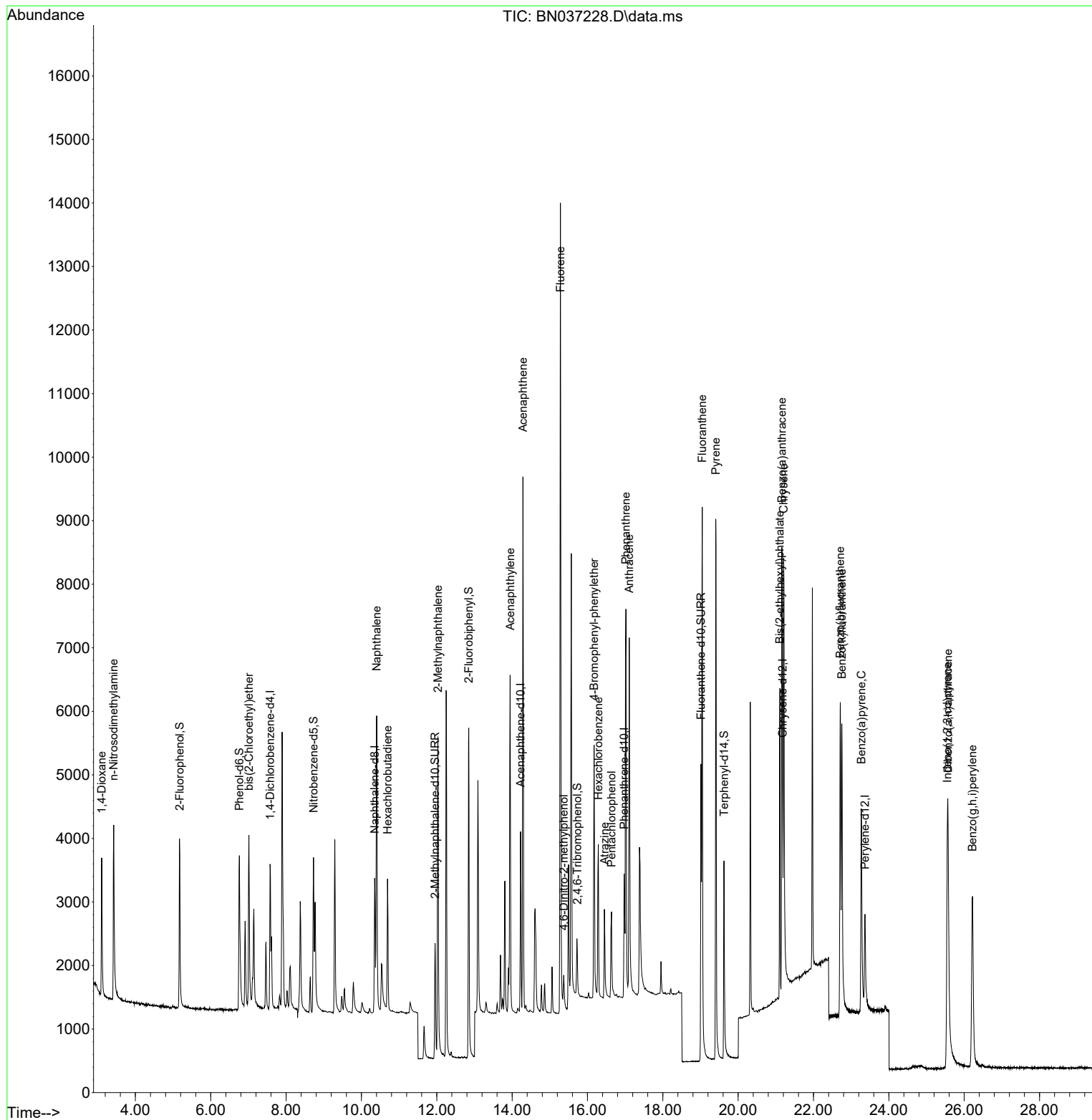
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1134	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2810	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1528	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2916	0.400	ng	0.00
29) Chrysene-d12	21.180	240	2294	0.400	ng	0.00
35) Perylene-d12	23.365	264	2157	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	2057	0.739	ng	0.00
5) Phenol-d6	6.759	99	2237	0.762	ng	0.00
8) Nitrobenzene-d5	8.728	82	2118	0.763	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2923	0.775	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	524	0.826	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	5066	0.789	ng	0.00
27) Fluoranthene-d10	19.012	212	5930	0.777	ng	0.00
31) Terphenyl-d14	19.625	244	3995	0.770	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1213	0.780	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.422	42	2739	0.773	ng	98
6) bis(2-Chloroethyl)ether	7.011	93	2165	0.823	ng	90
9) Naphthalene	10.404	128	6231	0.766	ng	97
10) Hexachlorobutadiene	10.692	225	1523	0.769	ng	# 97
12) 2-Methylnaphthalene	12.031	142	3926	0.794	ng	99
16) Acenaphthylene	13.946	152	5851	0.781	ng	99
17) Acenaphthene	14.288	154	3758	0.778	ng	100
18) Fluorene	15.282	166	4919	0.792	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	499	0.762	ng	# 77
21) 4-Bromophenyl-phenylether	16.177	248	1493	0.786	ng	91
22) Hexachlorobenzene	16.289	284	1655	0.751	ng	97
23) Atrazine	16.450	200	1327	0.783	ng	93
24) Pentachlorophenol	16.636	266	800	0.741	ng	99
25) Phenanthrene	17.021	178	7220	0.781	ng	99
26) Anthracene	17.108	178	6635	0.784	ng	99
28) Fluoranthene	19.045	202	8450	0.781	ng	99
30) Pyrene	19.407	202	8483	0.787	ng	99
32) Benzo(a)anthracene	21.162	228	6109	0.789	ng	98
33) Chrysene	21.206	228	7421	0.769	ng	99
34) Bis(2-ethylhexyl)phtha...	21.108	149	4590	0.796	ng	100
36) Indeno(1,2,3-cd)pyrene	25.552	276	6412	0.737	ng	# 88
37) Benzo(b)fluoranthene	22.711	252	6280	0.796	ng	91
38) Benzo(k)fluoranthene	22.752	252	7192	0.795	ng	# 92
39) Benzo(a)pyrene	23.269	252	5598	0.789	ng	# 88
40) Dibenzo(a,h)anthracene	25.570	278	4824	0.736	ng	# 88
41) Benzo(g,h,i)perylene	26.219	276	5978	0.741	ng	98

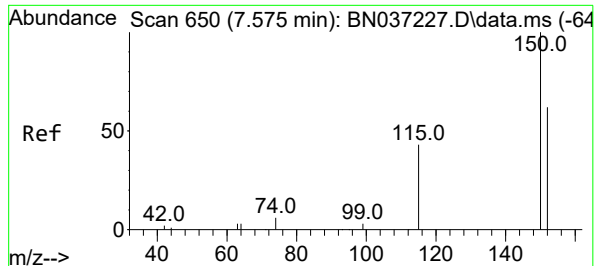
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037228.D
Acq On : 13 Jun 2025 15:22
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

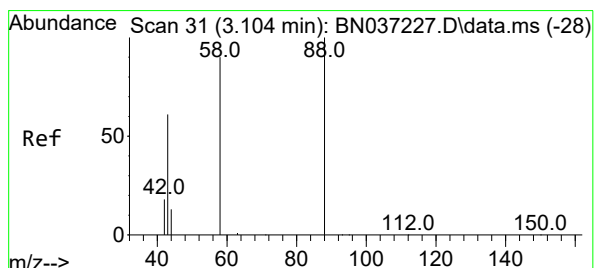
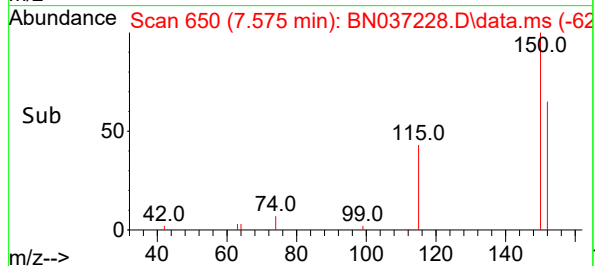
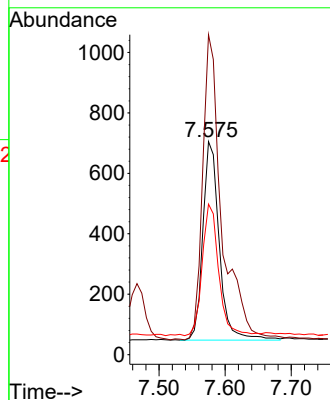
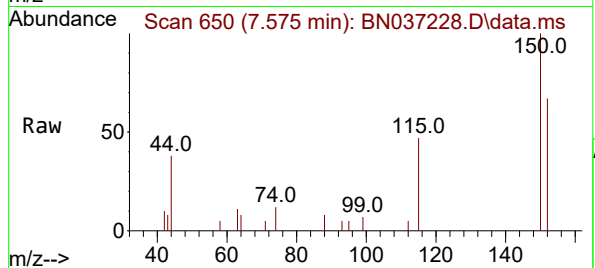




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

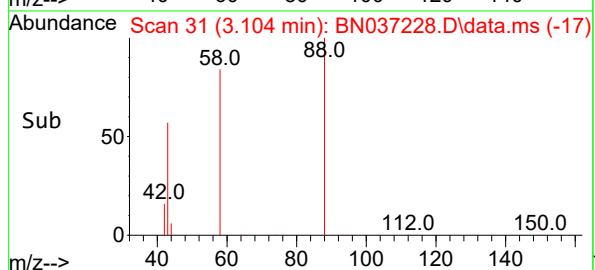
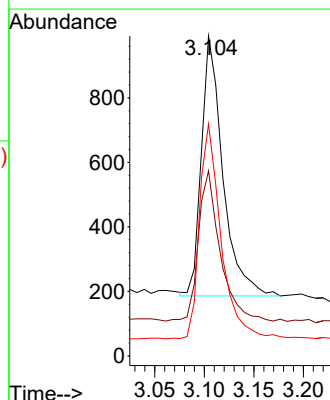
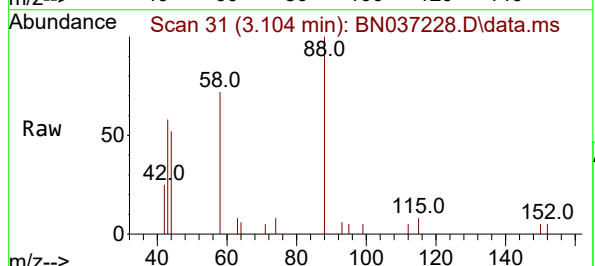
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

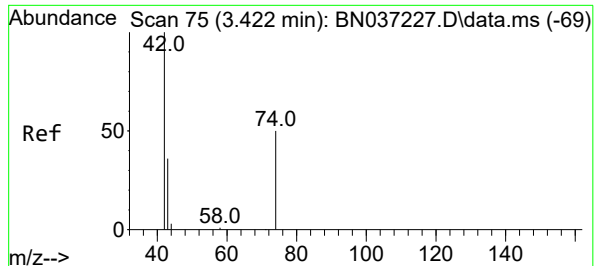
Tgt Ion:152 Resp: 1134
Ion Ratio Lower Upper
152 100
150 150.2 125.2 187.8
115 70.6 58.4 87.6



#2
1,4-Dioxane
Concen: 0.780 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 88 Resp: 1213
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 83.3 73.5 110.3

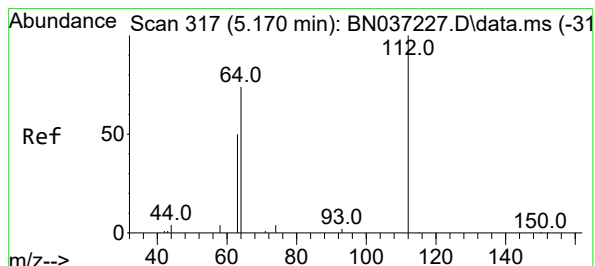
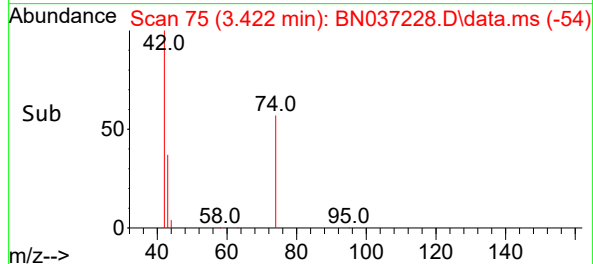
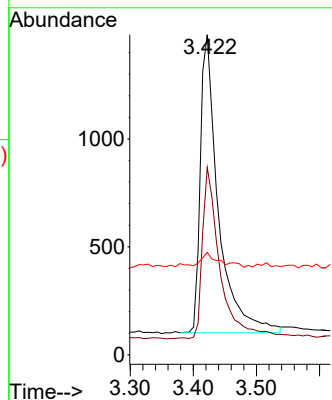
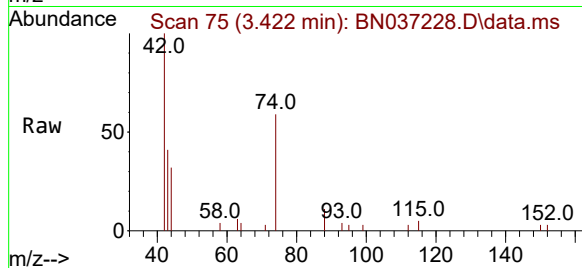




#3
n-Nitrosodimethylamine
Concen: 0.773 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

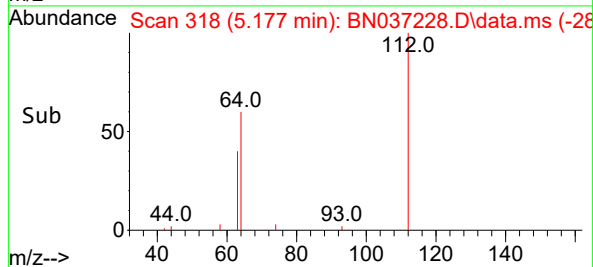
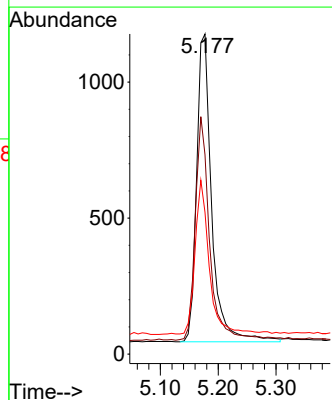
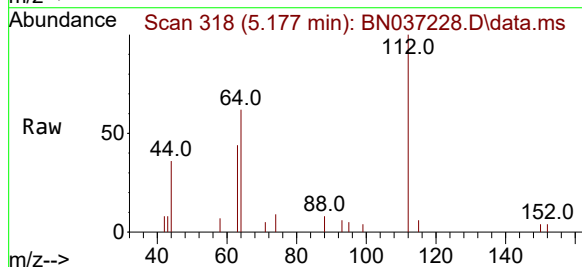
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

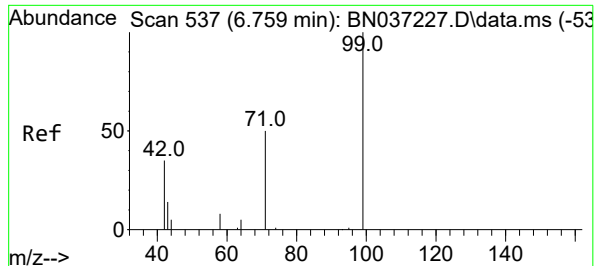
Tgt Ion: 42 Resp: 2739
Ion Ratio Lower Upper
42 100
74 56.8 44.6 66.8
44 4.9 3.5 5.3



#4
2-Fluorophenol
Concen: 0.739 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 112 Resp: 2057
Ion Ratio Lower Upper
112 100
64 70.2 57.2 85.8
63 46.4 39.8 59.6

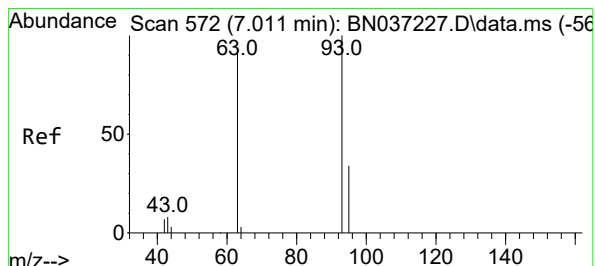
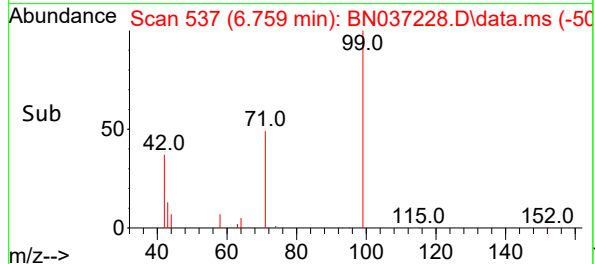
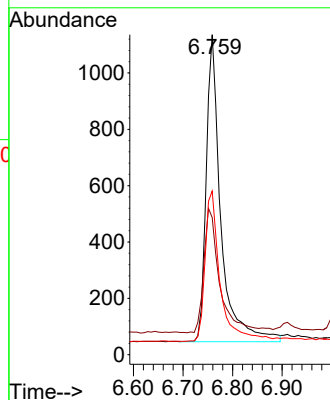
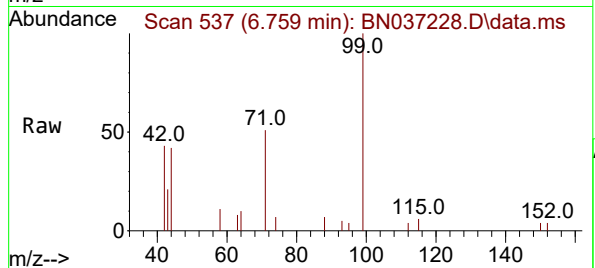




#5
Phenol-d6
Concen: 0.762 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

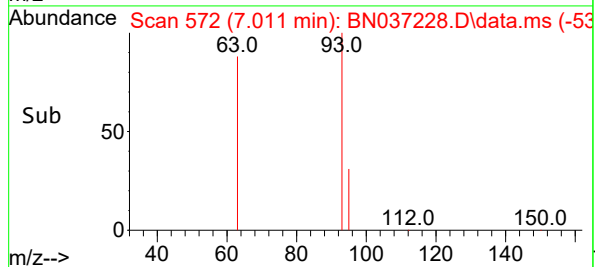
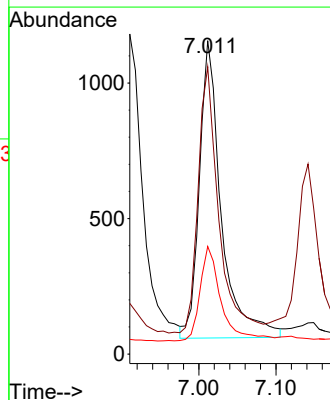
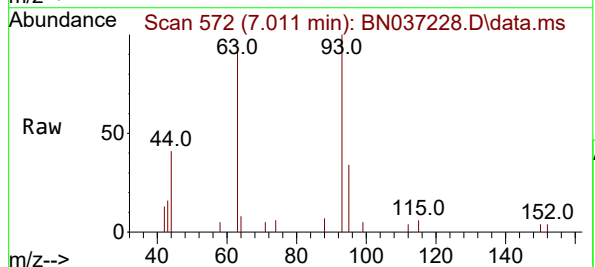
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

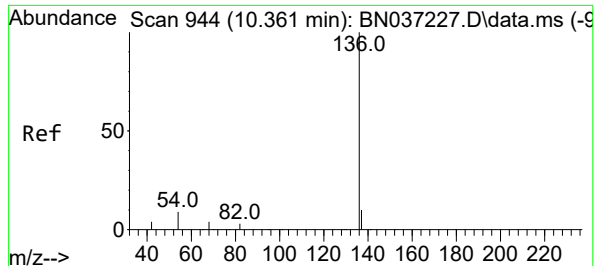
Tgt Ion: 99 Resp: 2237
Ion Ratio Lower Upper
99 100
42 43.8 36.2 54.4
71 50.7 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.823 ng
RT: 7.011 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion: 93 Resp: 2165
Ion Ratio Lower Upper
93 100
63 83.9 75.2 112.8
95 30.8 28.3 42.5

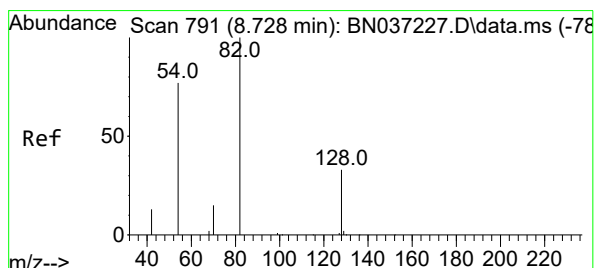
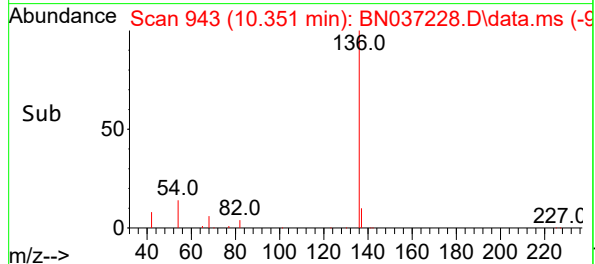
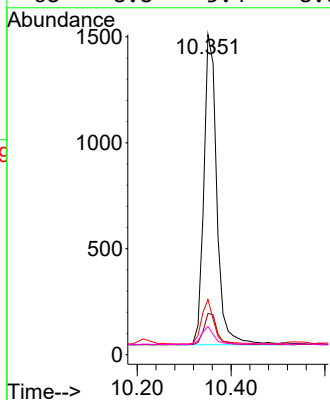
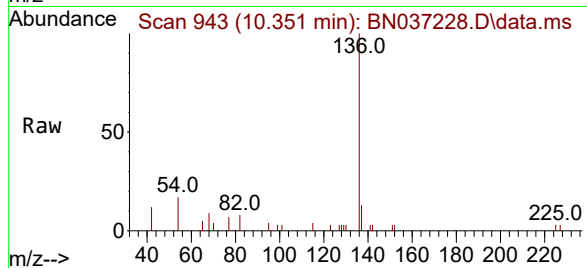




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

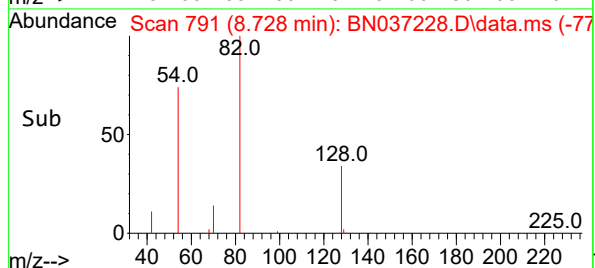
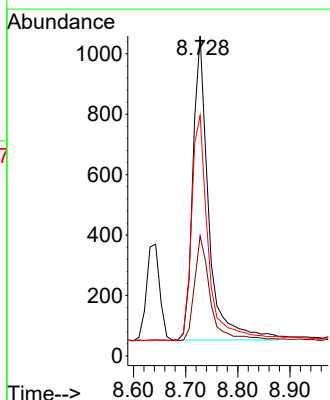
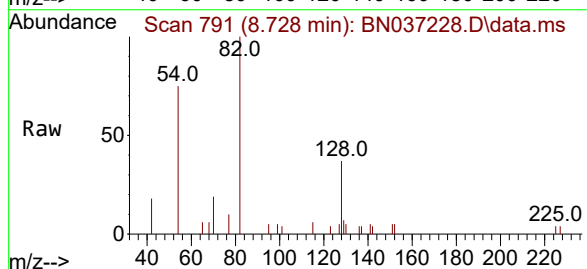
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

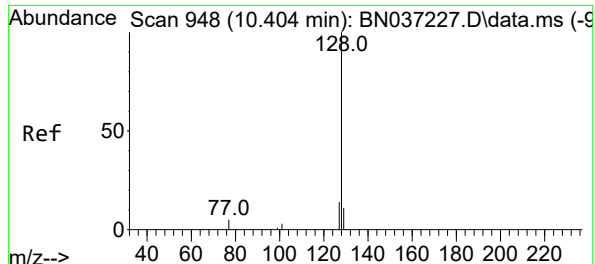
Tgt Ion:	136	Resp:	2810
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.6	15.8
54	17.3	9.2	13.8#
68	8.8	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.763 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:	82	Resp:	2118
Ion	Ratio	Lower	Upper
82	100		
128	37.5	31.2	46.8
54	75.2	63.3	94.9



#9
Naphthalene

Concen: 0.766 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

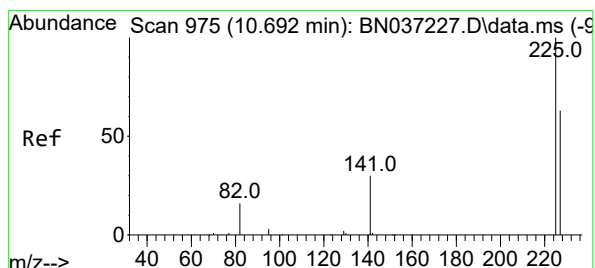
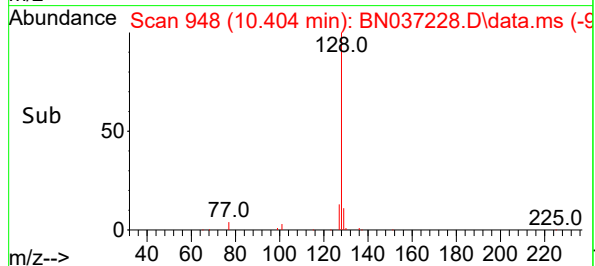
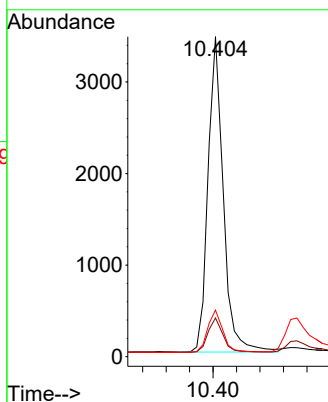
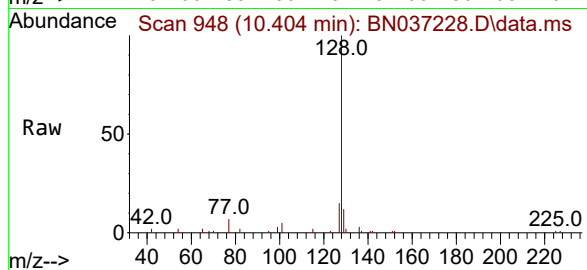
Tgt Ion:128 Resp: 6231

Ion Ratio Lower Upper

128 100

129 12.1 10.7 16.1

127 14.5 12.6 19.0



#10

Hexachlorobutadiene

Concen: 0.769 ng

RT: 10.692 min Scan# 975

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

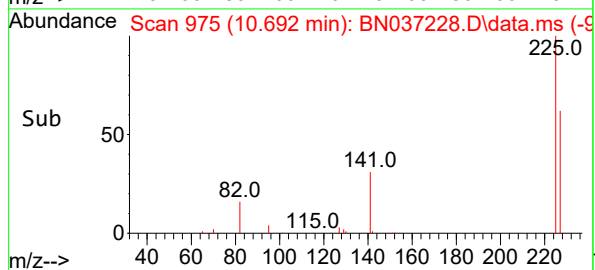
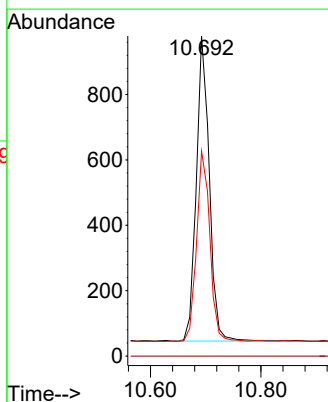
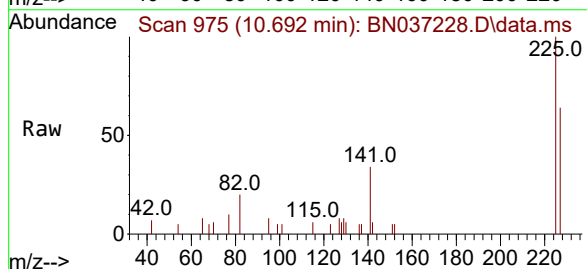
Tgt Ion:225 Resp: 1523

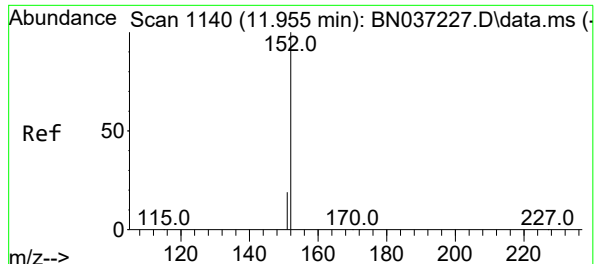
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.8 49.2 73.8

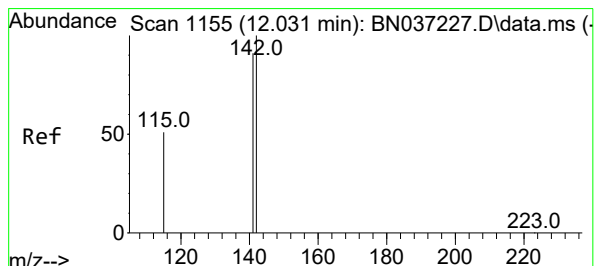
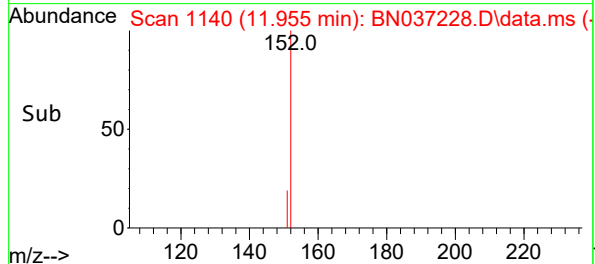
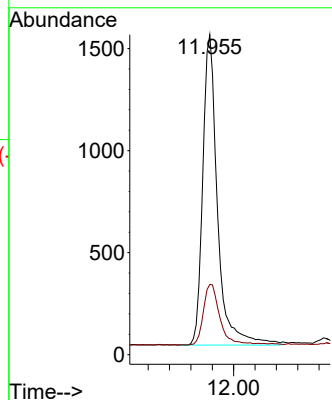
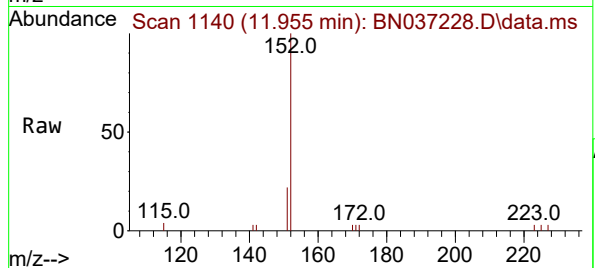




#11
2-Methylnaphthalene-d10
Concen: 0.775 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

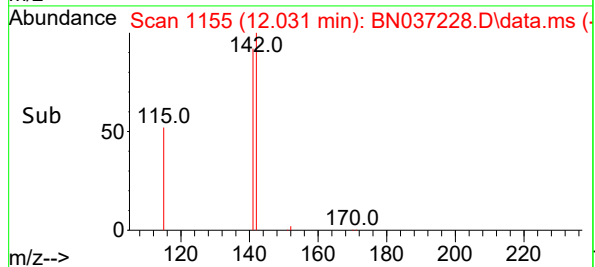
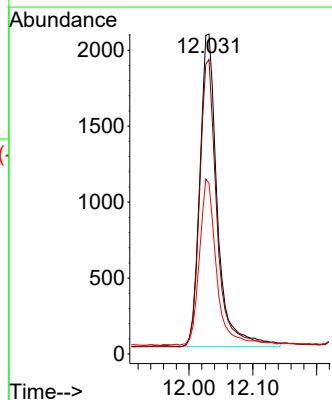
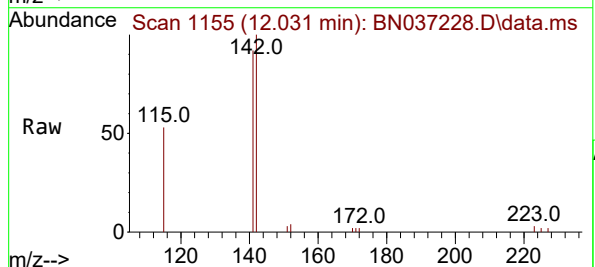
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

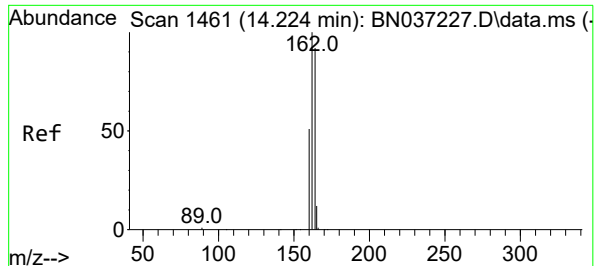
Tgt Ion:152 Resp: 2923
Ion Ratio Lower Upper
152 100
151 21.5 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.794 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:142 Resp: 3926
Ion Ratio Lower Upper
142 100
141 92.0 73.0 109.6
115 53.3 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

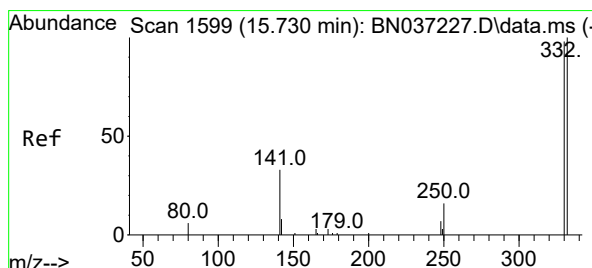
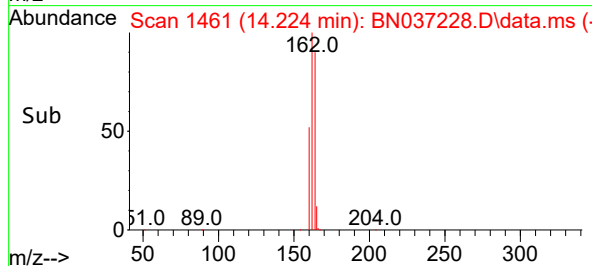
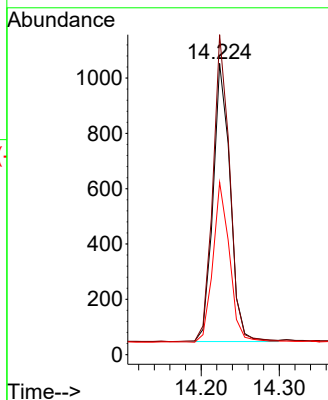
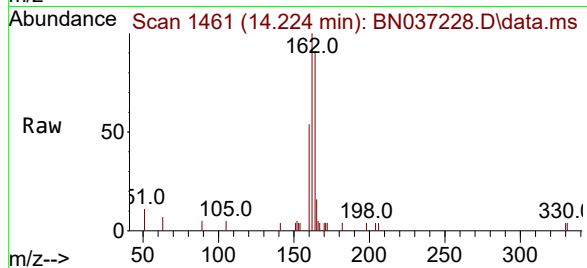
Tgt Ion:164 Resp: 1528

Ion Ratio Lower Upper

164 100

162 109.9 86.7 130.1

160 59.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.826 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

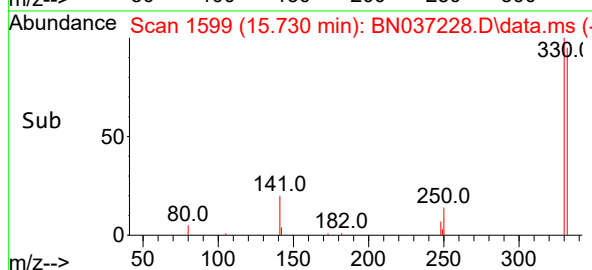
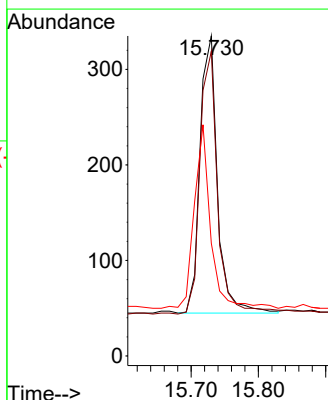
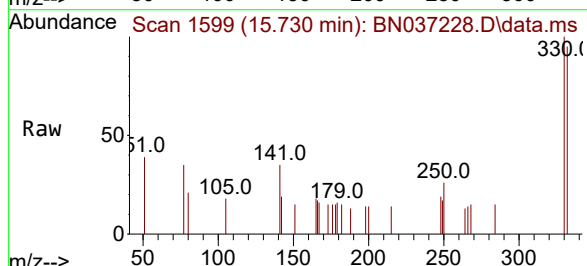
Tgt Ion:330 Resp: 524

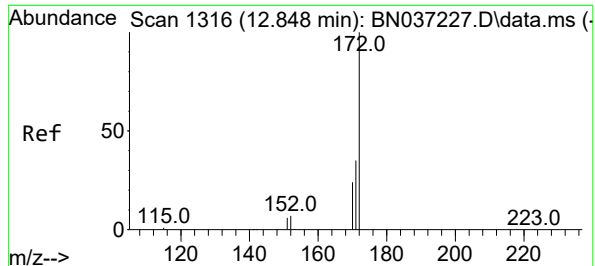
Ion Ratio Lower Upper

330 100

332 98.1 74.9 112.3

141 61.5 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.789 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

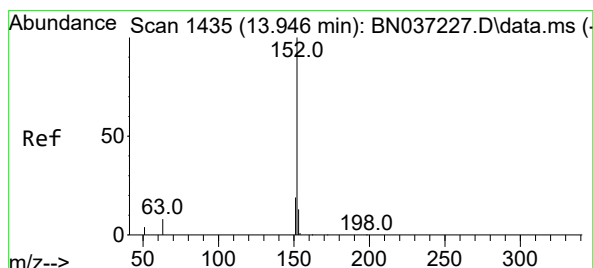
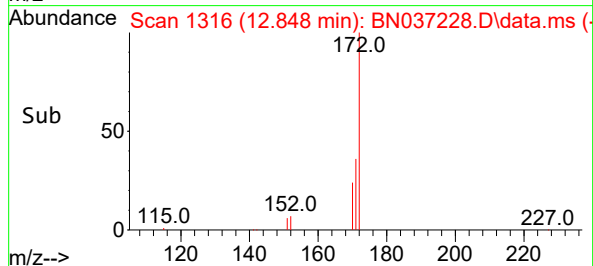
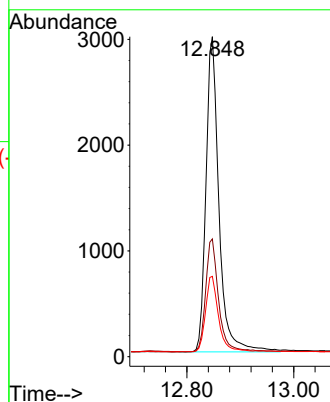
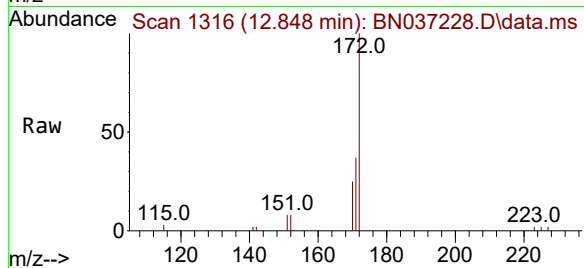
Tgt Ion:172 Resp: 5066

Ion Ratio Lower Upper

172 100

171 36.8 29.8 44.8

170 25.1 21.1 31.7



#16

Acenaphthylene

Concen: 0.781 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

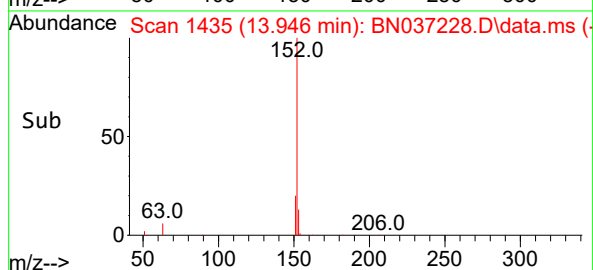
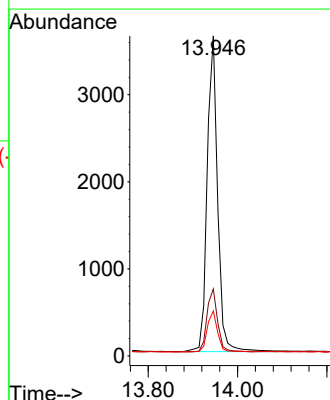
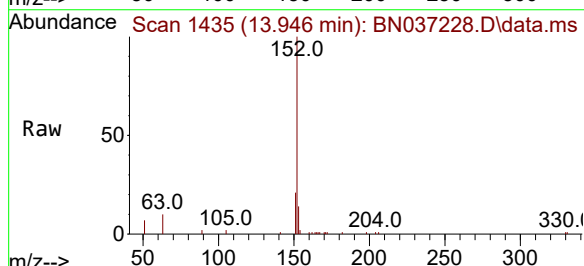
Tgt Ion:152 Resp: 5851

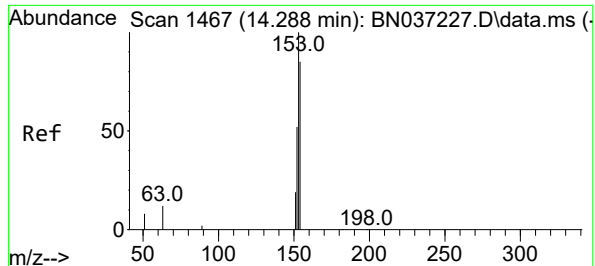
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 0.778 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

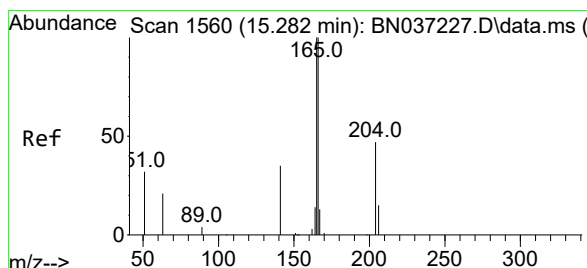
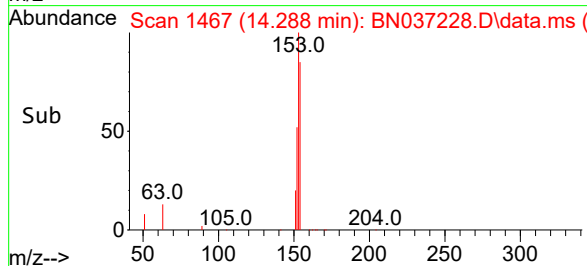
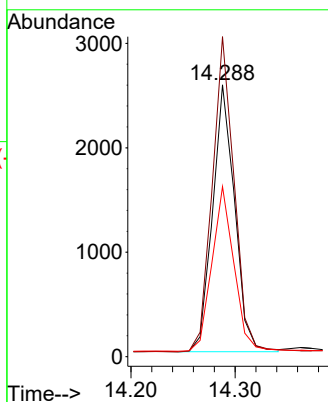
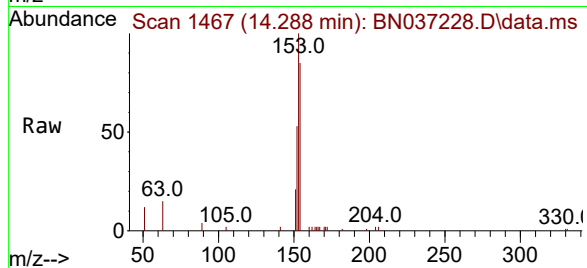
Tgt Ion:154 Resp: 3758

Ion Ratio Lower Upper

154 100

153 117.6 94.6 141.8

152 62.3 49.6 74.4



#18

Fluorene

Concen: 0.792 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

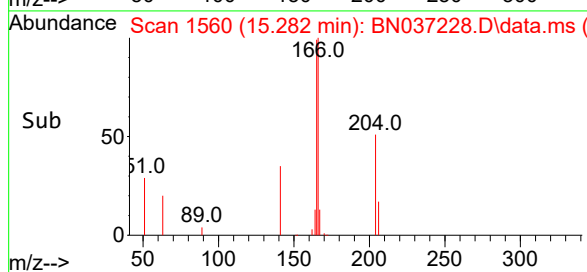
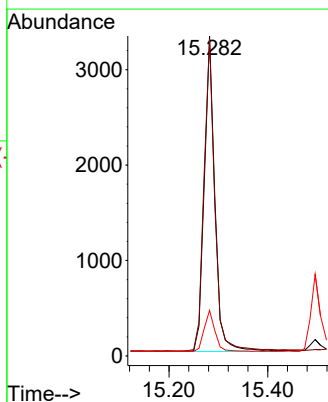
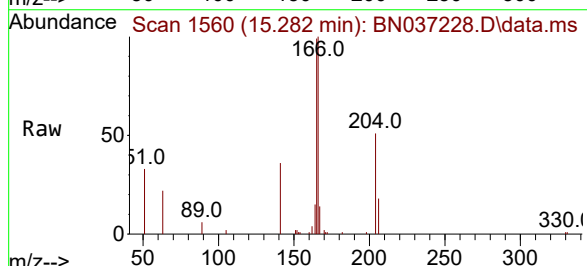
Tgt Ion:166 Resp: 4919

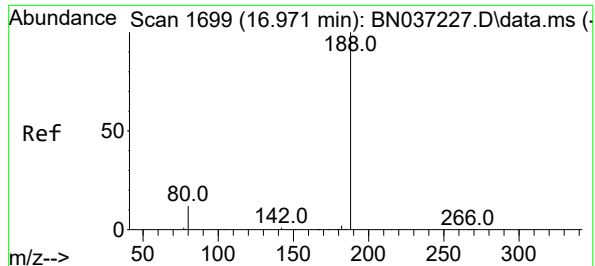
Ion Ratio Lower Upper

166 100

165 101.1 79.8 119.6

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

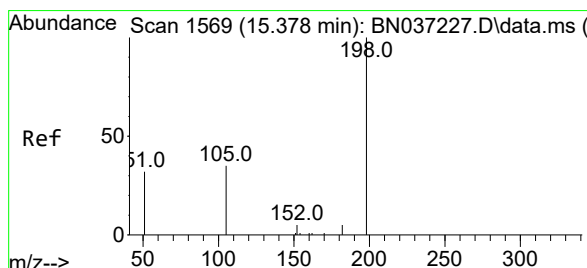
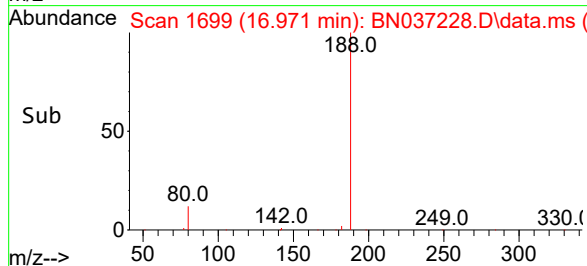
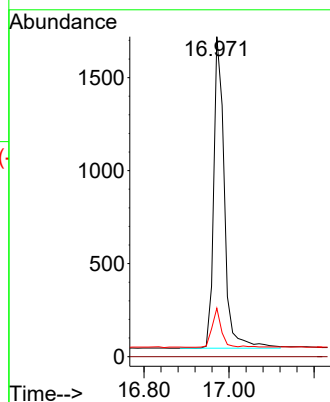
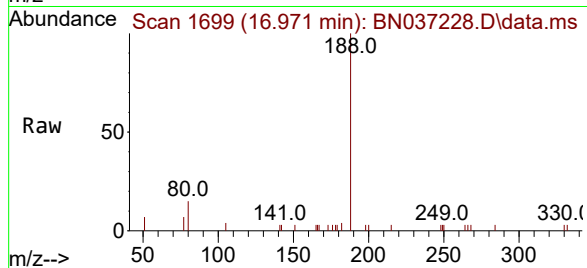
Tgt Ion:188 Resp: 2916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.762 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

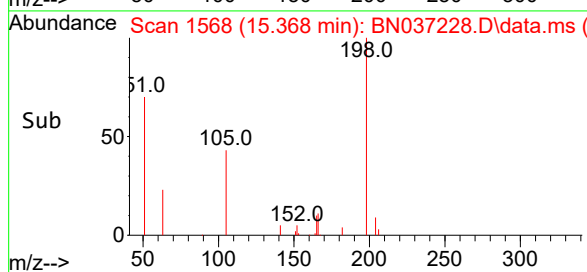
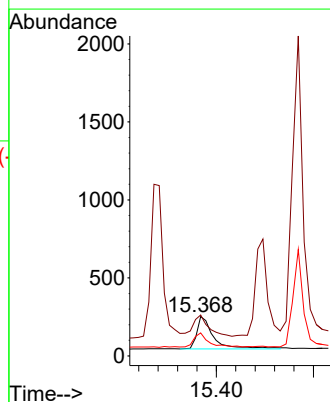
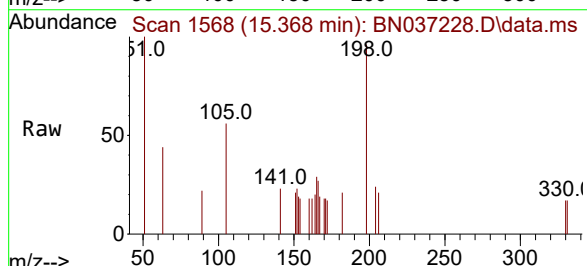
Tgt Ion:198 Resp: 499

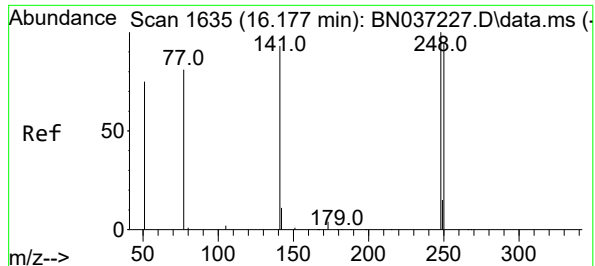
Ion Ratio Lower Upper

198 100

51 104.0 111.2 166.8#

105 58.3 54.0 81.0

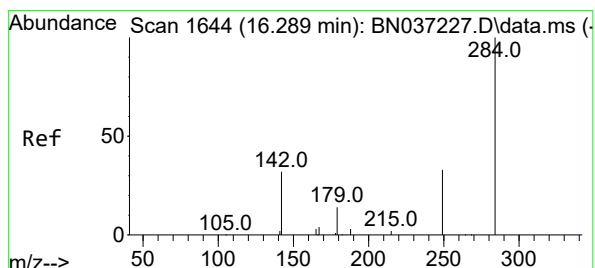
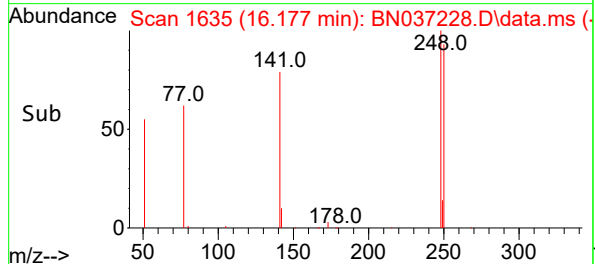
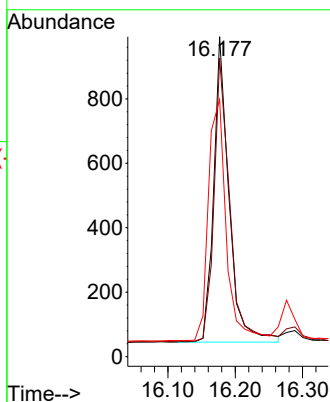
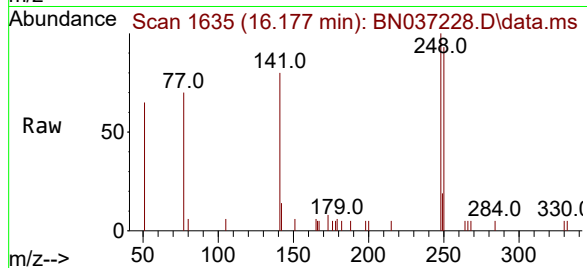




#21
4-Bromophenyl-phenylether
Concen: 0.786 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

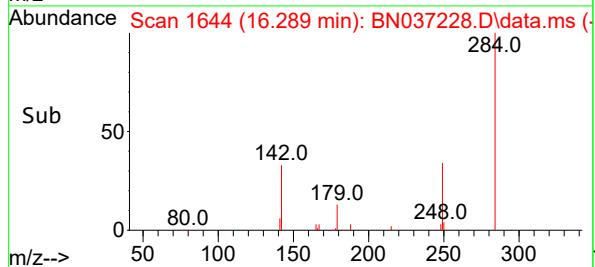
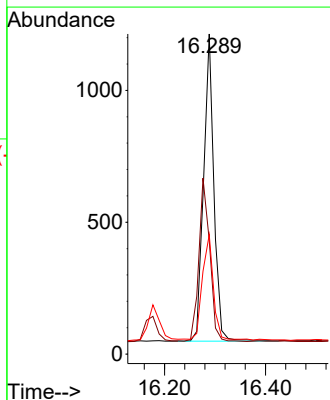
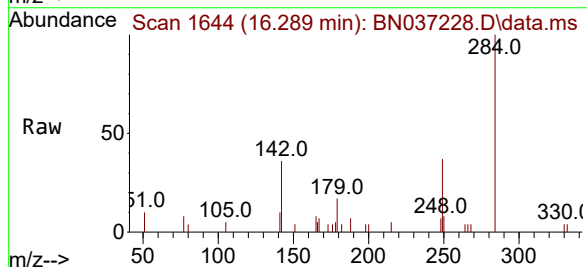
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

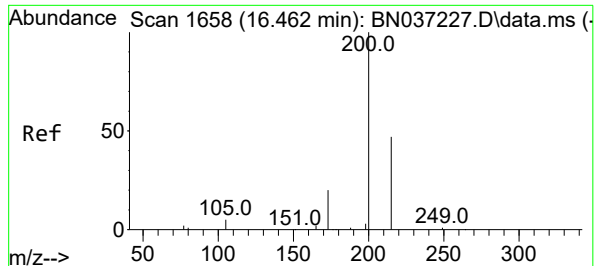
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.3	76.8	115.2
141	80.4	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.751 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion	Ratio	Lower	Upper
284	100		
142	56.3	43.8	65.6
249	37.4	28.4	42.6

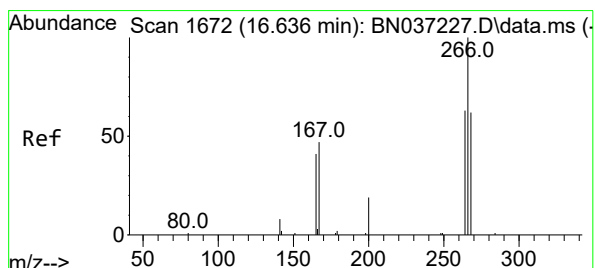
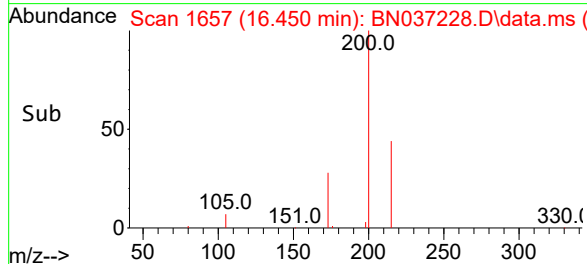
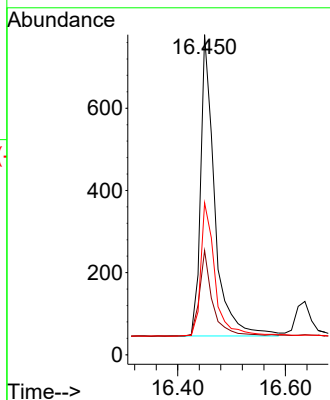
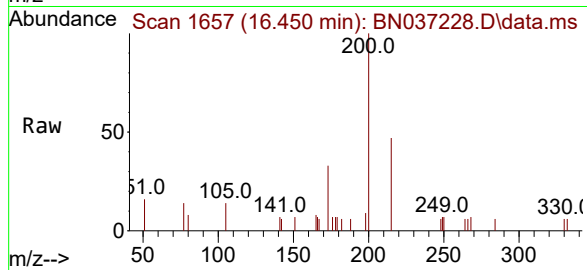




#23
Atrazine
Concen: 0.783 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

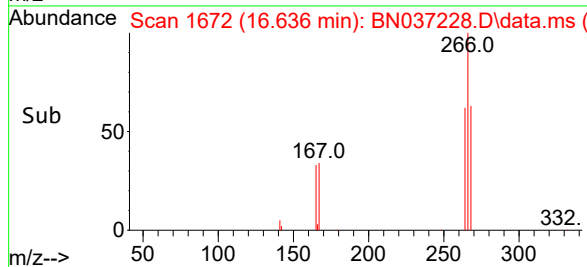
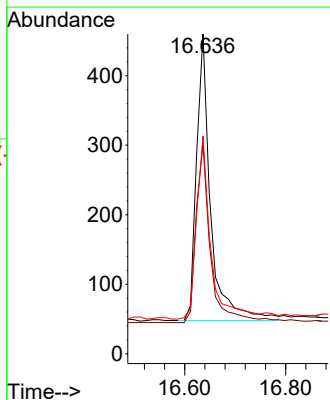
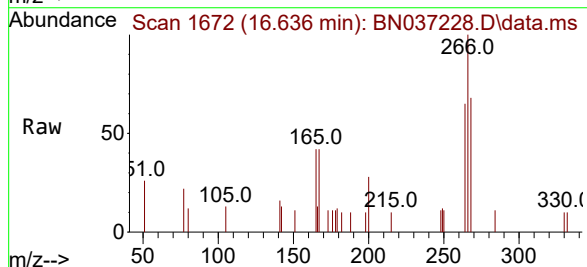
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

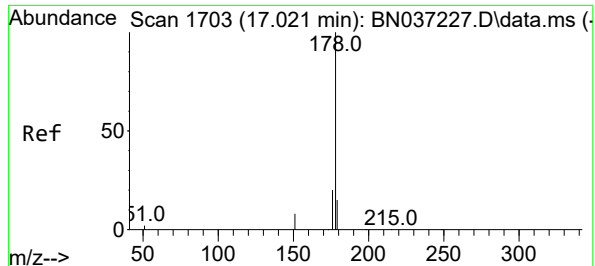
Tgt Ion:200 Resp: 1327
Ion Ratio Lower Upper
200 100
173 32.6 25.1 37.7
215 47.5 43.7 65.5



#24
Pentachlorophenol
Concen: 0.741 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:266 Resp: 800
Ion Ratio Lower Upper
266 100
264 63.2 49.2 73.8
268 66.6 53.4 80.2

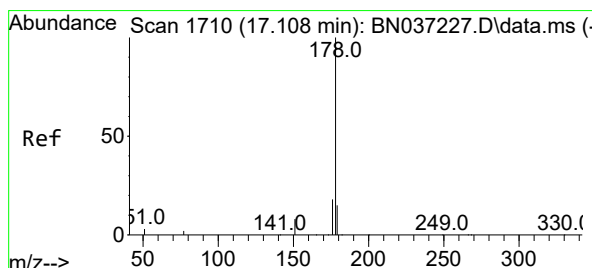
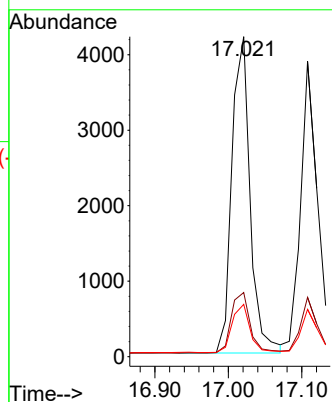
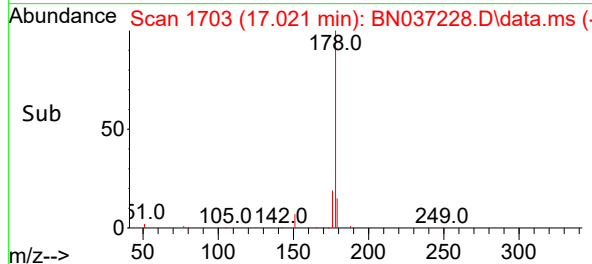
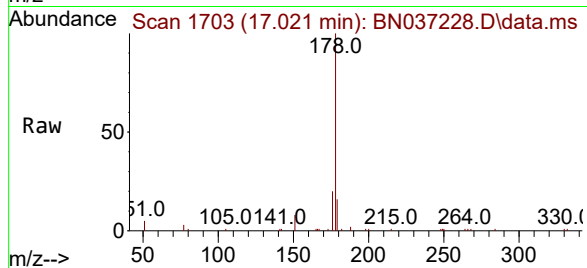




#25
Phenanthrene
Concen: 0.781 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

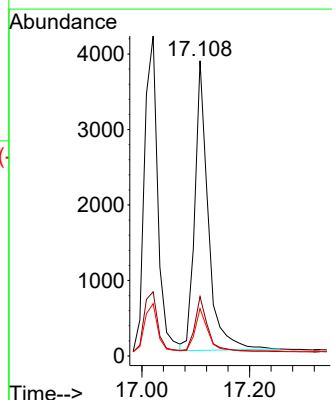
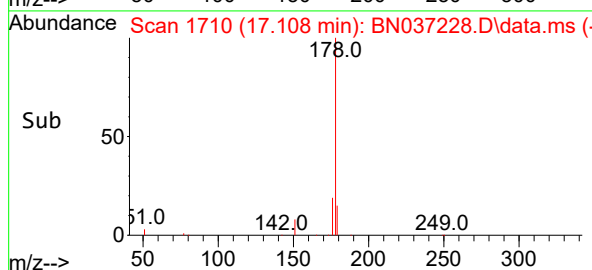
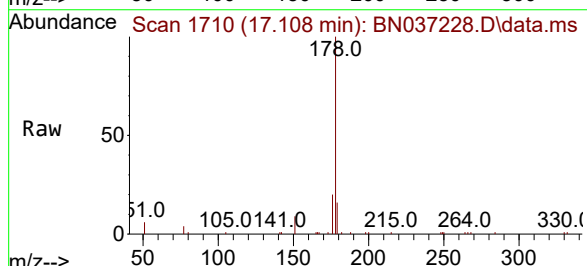
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

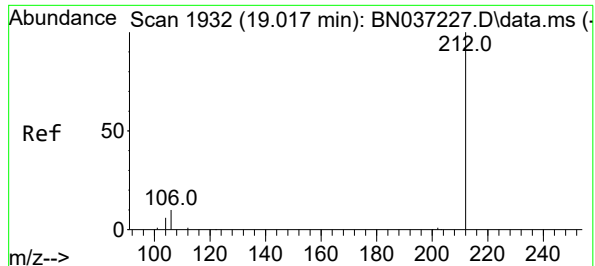
Tgt Ion:178 Resp: 7220
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 15.0 12.6 18.8



#26
Anthracene
Concen: 0.784 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037228.D
Acq: 13 Jun 2025 15:22

Tgt Ion:178 Resp: 6635
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 14.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.777 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

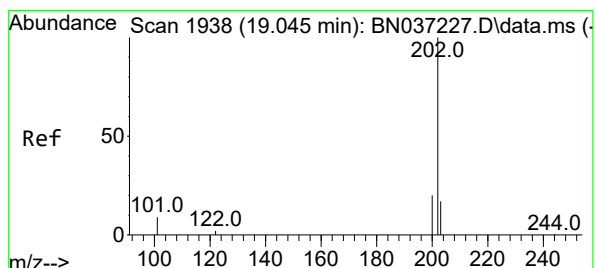
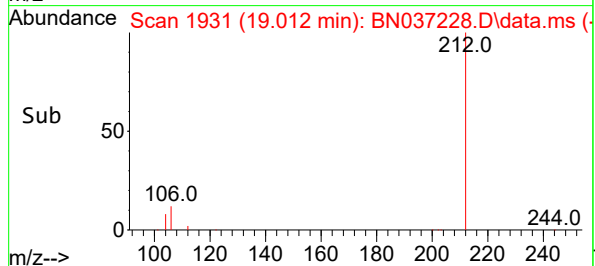
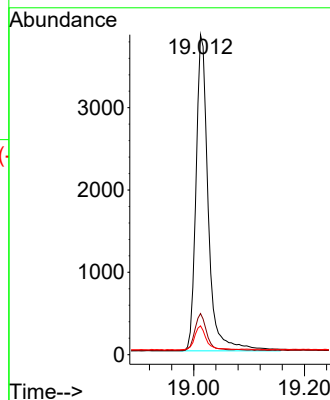
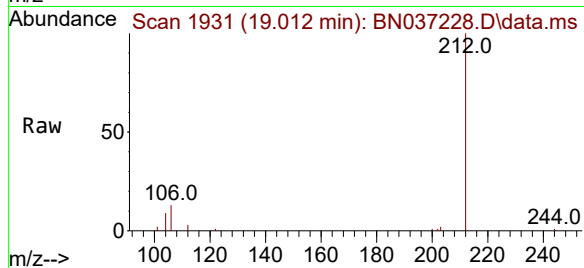
Tgt Ion:212 Resp: 5930

Ion Ratio Lower Upper

212 100

106 11.3 9.3 13.9

104 7.3 5.7 8.5



#28

Fluoranthene

Concen: 0.781 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

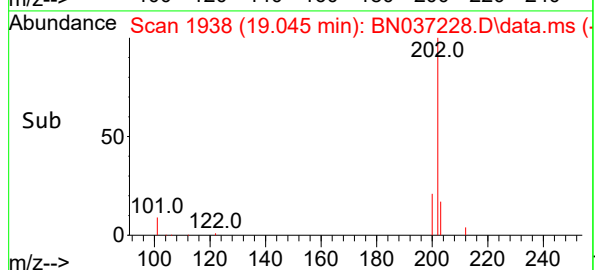
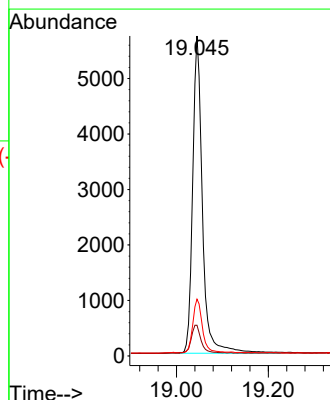
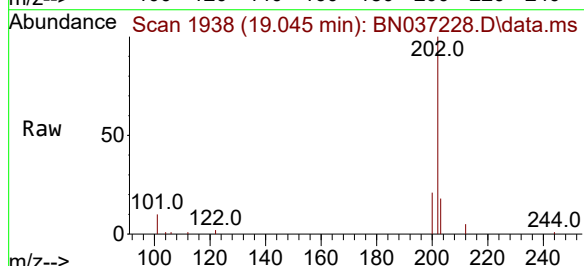
Tgt Ion:202 Resp: 8450

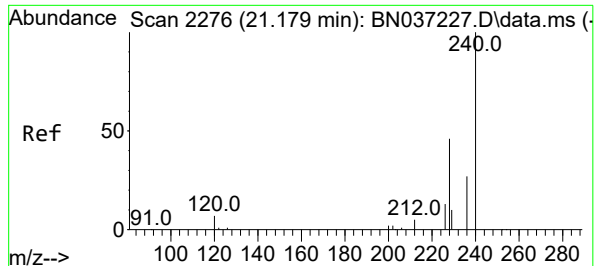
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 16.6 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

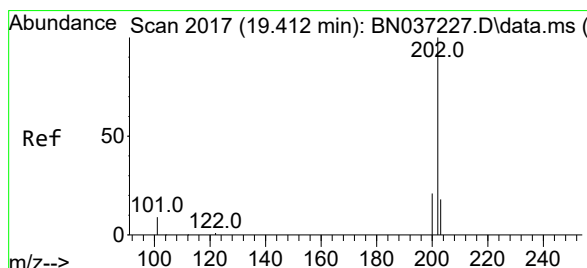
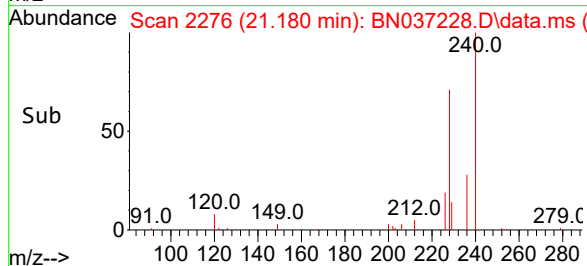
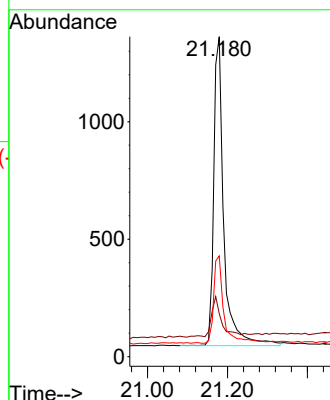
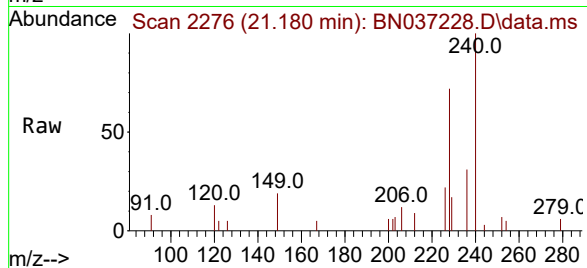
Tgt Ion:240 Resp: 2294

Ion Ratio Lower Upper

240 100

120 13.4 11.3 16.9

236 31.5 24.4 36.6



#30

Pyrene

Concen: 0.787 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

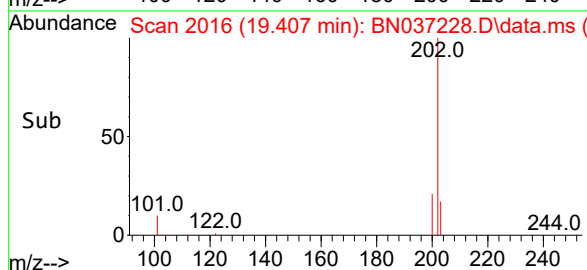
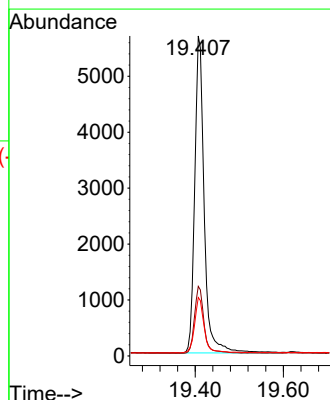
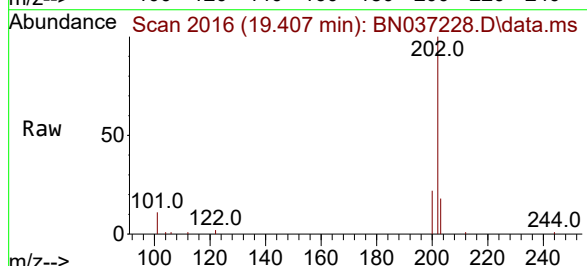
Tgt Ion:202 Resp: 8483

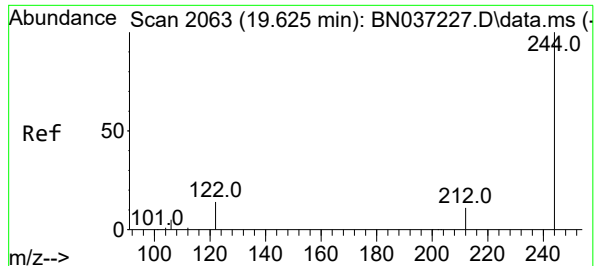
Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

203 17.4 14.3 21.5





#31

Terphenyl-d14

Concen: 0.770 ng

RT: 19.625 min Scan# 2063

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

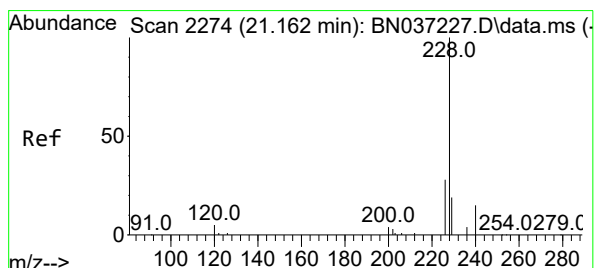
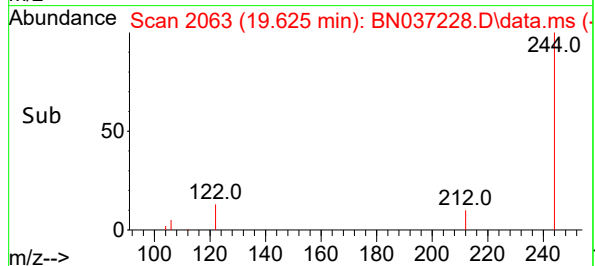
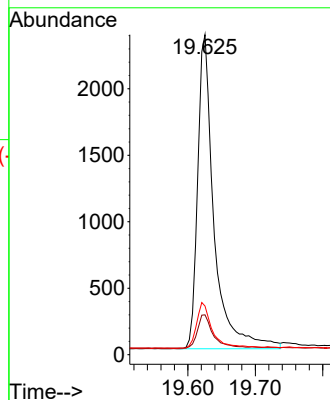
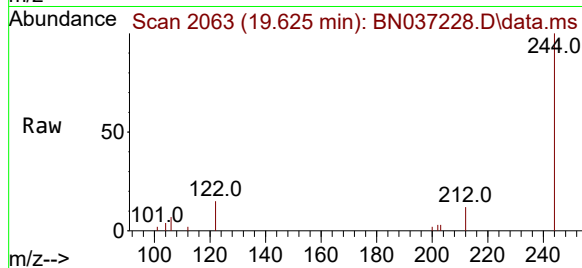
Tgt Ion:244 Resp: 3995

Ion Ratio Lower Upper

244 100

212 12.5 12.2 18.2

122 15.2 14.3 21.5



#32

Benzo(a)anthracene

Concen: 0.789 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

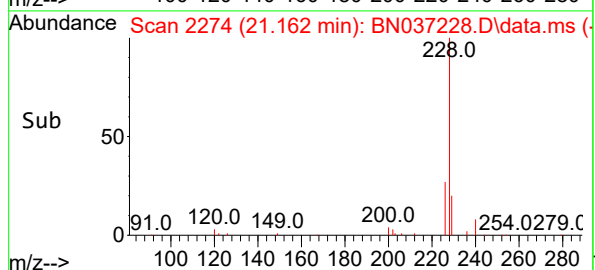
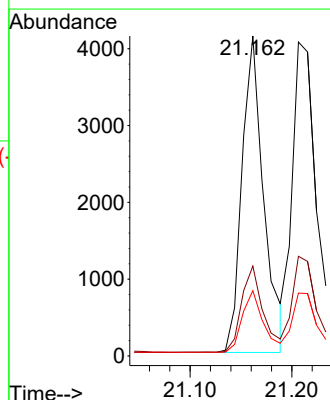
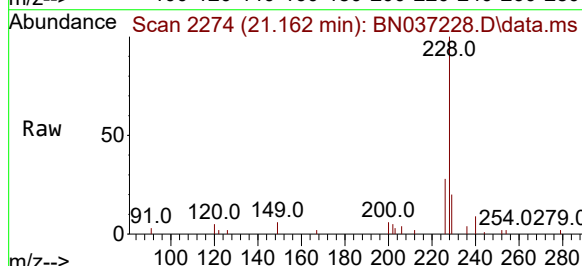
Tgt Ion:228 Resp: 6109

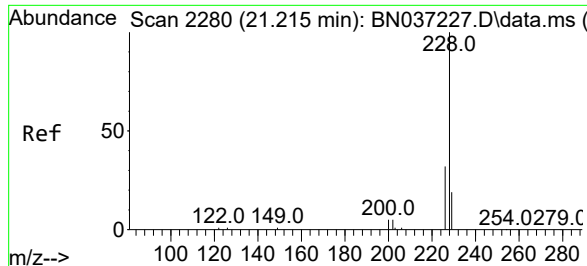
Ion Ratio Lower Upper

228 100

226 28.1 23.8 35.8

229 20.4 17.0 25.4





#33

Chrysene

Concen: 0.769 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

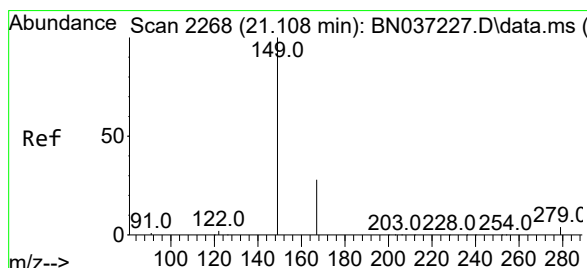
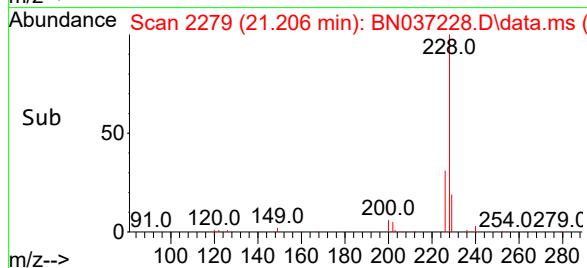
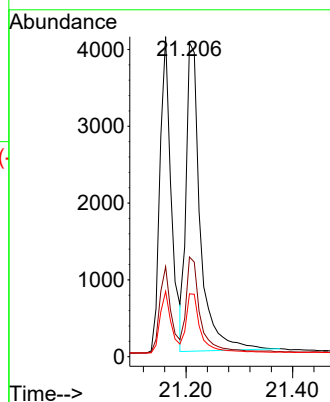
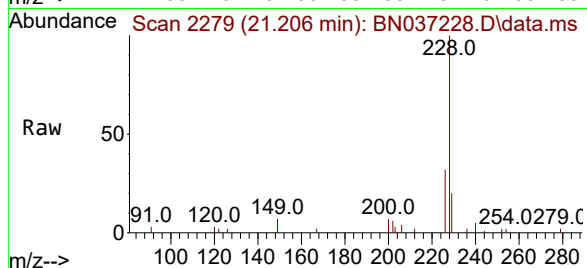
Tgt Ion:228 Resp: 7421

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 20.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.796 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

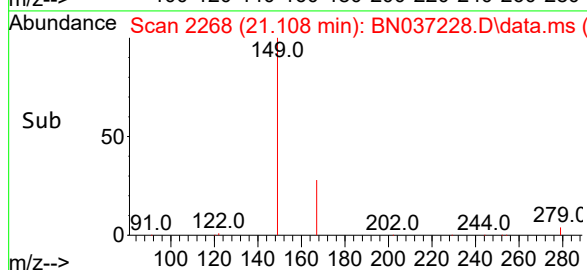
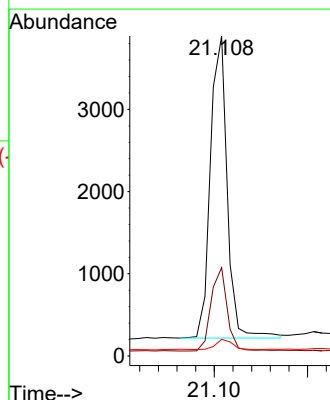
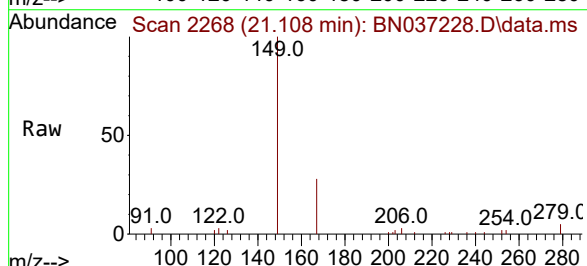
Tgt Ion:149 Resp: 4590

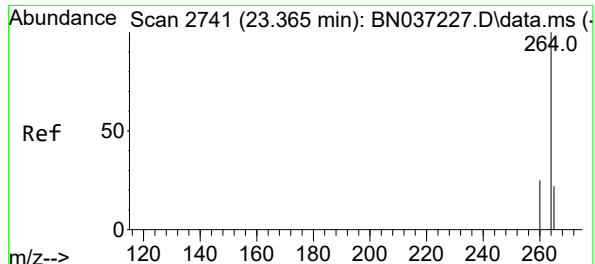
Ion Ratio Lower Upper

149 100

167 26.5 21.3 31.9

279 3.4 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

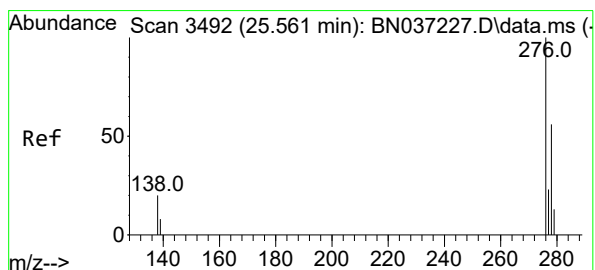
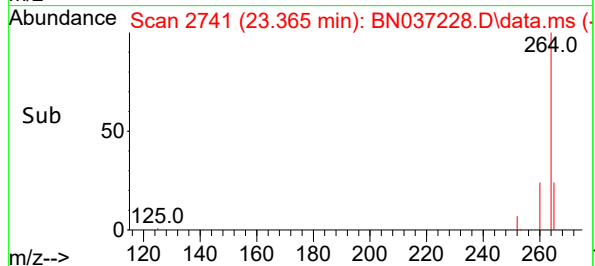
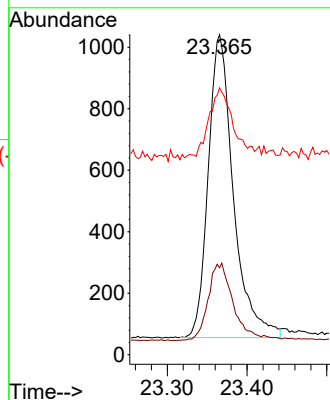
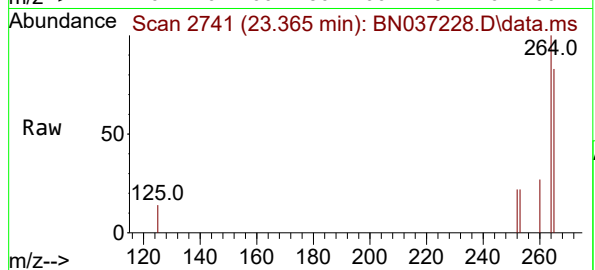
Tgt Ion:264 Resp: 2157

Ion Ratio Lower Upper

264 100

260 27.2 22.8 34.2

265 83.4 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.737 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

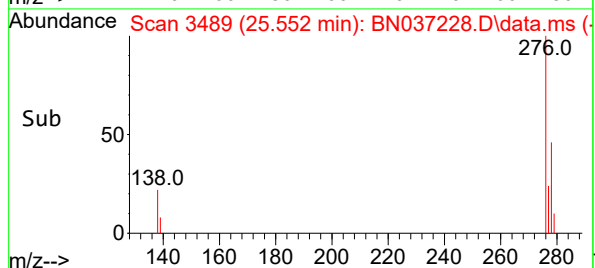
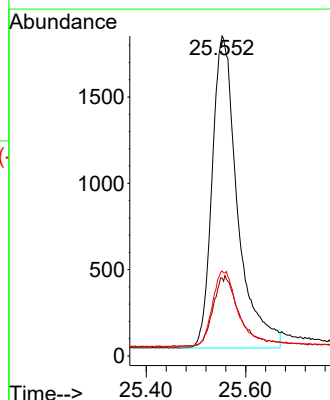
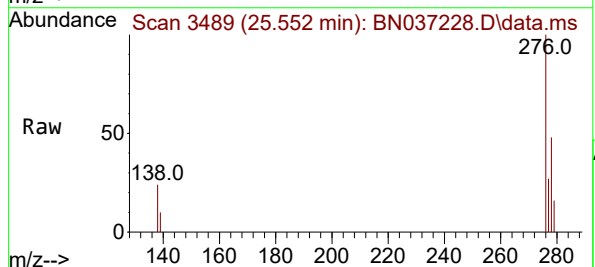
Tgt Ion:276 Resp: 6412

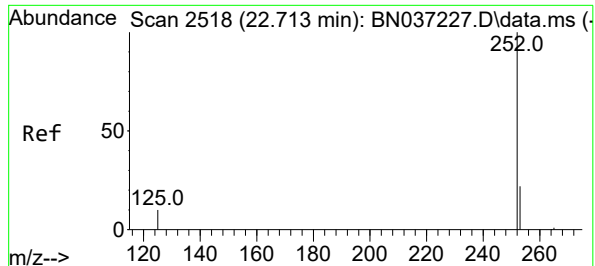
Ion Ratio Lower Upper

276 100

138 9.5 16.8 25.2#

277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.796 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

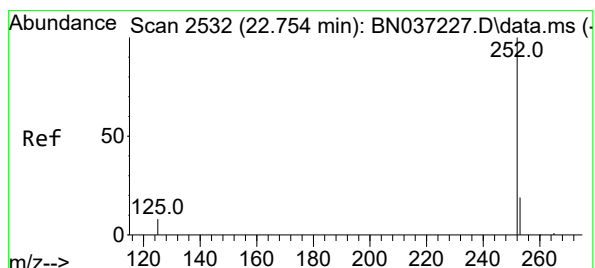
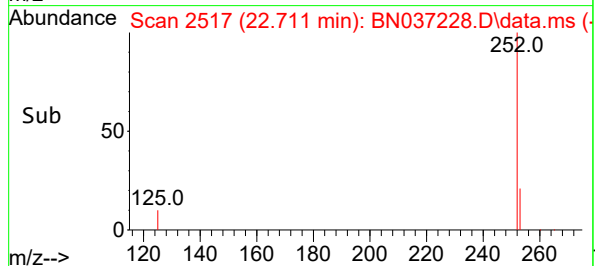
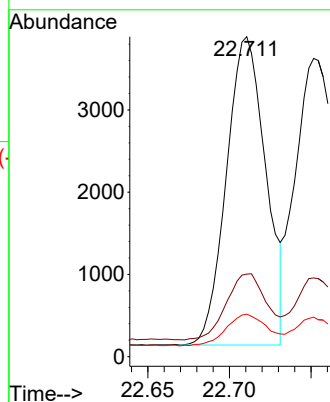
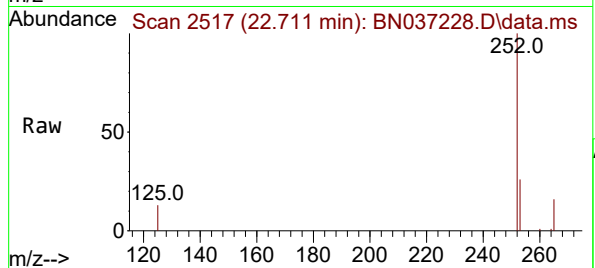
Tgt Ion:252 Resp: 6280

Ion Ratio Lower Upper

252 100

253 25.8 24.9 37.3

125 13.3 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.795 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

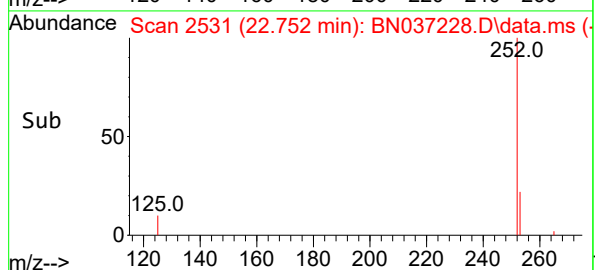
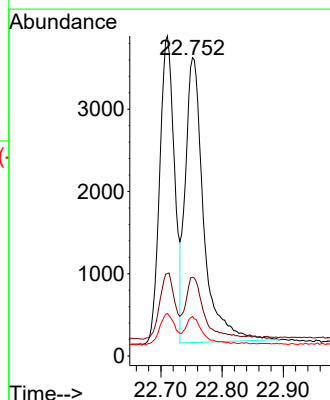
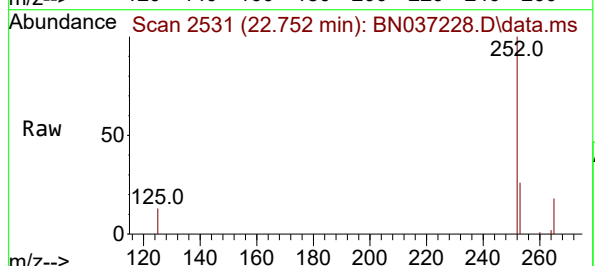
Tgt Ion:252 Resp: 7192

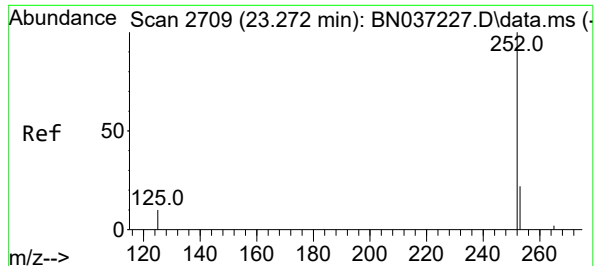
Ion Ratio Lower Upper

252 100

253 26.4 24.6 37.0

125 13.3 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.789 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

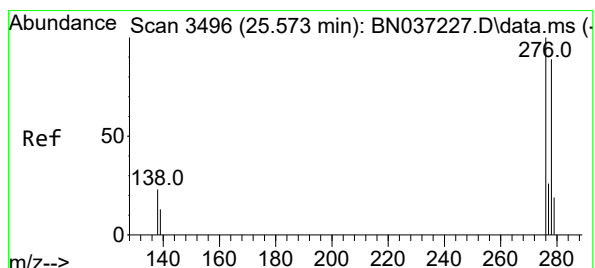
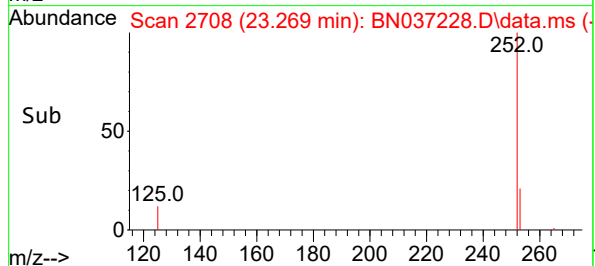
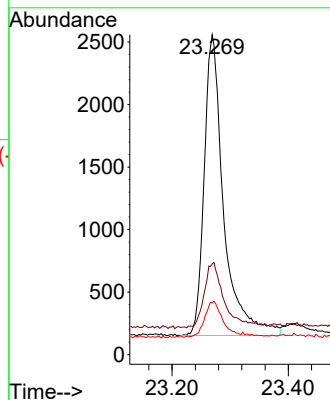
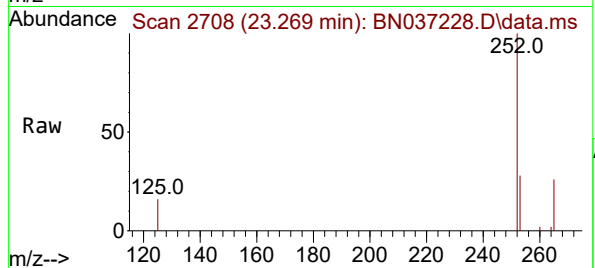
Tgt Ion:252 Resp: 5598

Ion Ratio Lower Upper

252 100

253 28.4 29.4 44.2#

125 16.3 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.736 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

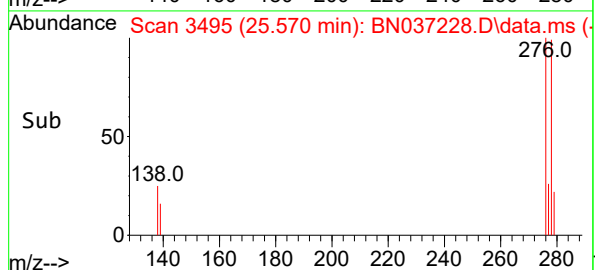
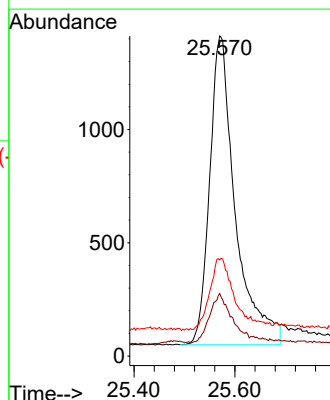
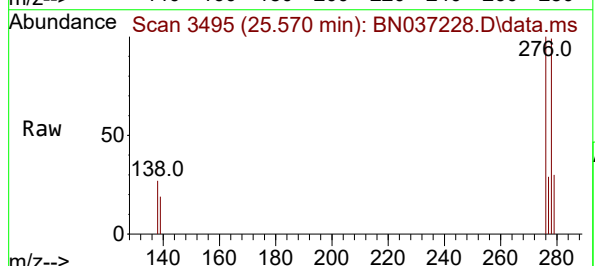
Tgt Ion:278 Resp: 4824

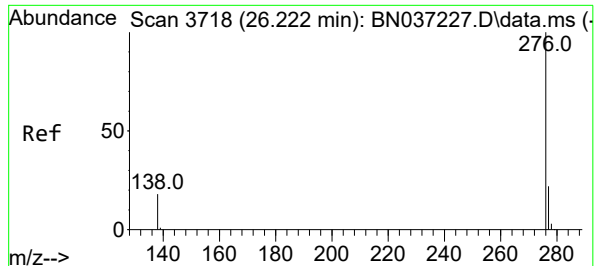
Ion Ratio Lower Upper

278 100

139 19.5 17.8 26.6

279 30.0 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.741 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037228.D

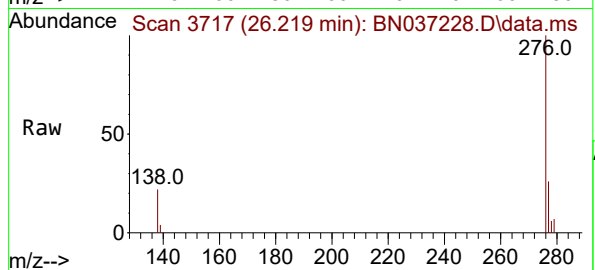
Acq: 13 Jun 2025 15:22

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



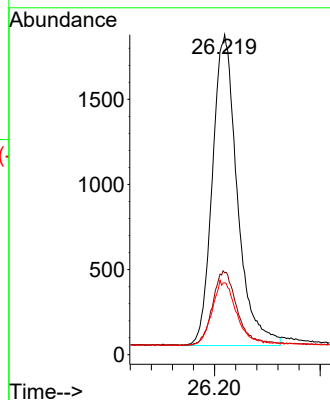
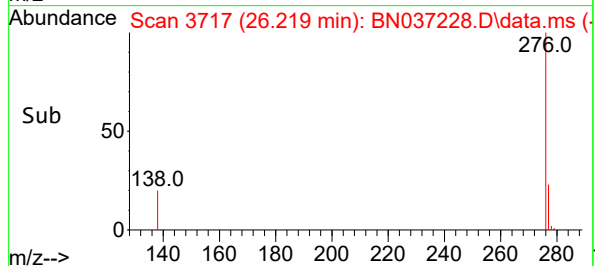
Tgt Ion:276 Resp: 5978

Ion Ratio Lower Upper

276 100

277 25.6 22.0 33.0

138 22.4 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037229.D
 Acq On : 13 Jun 2025 15:59
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

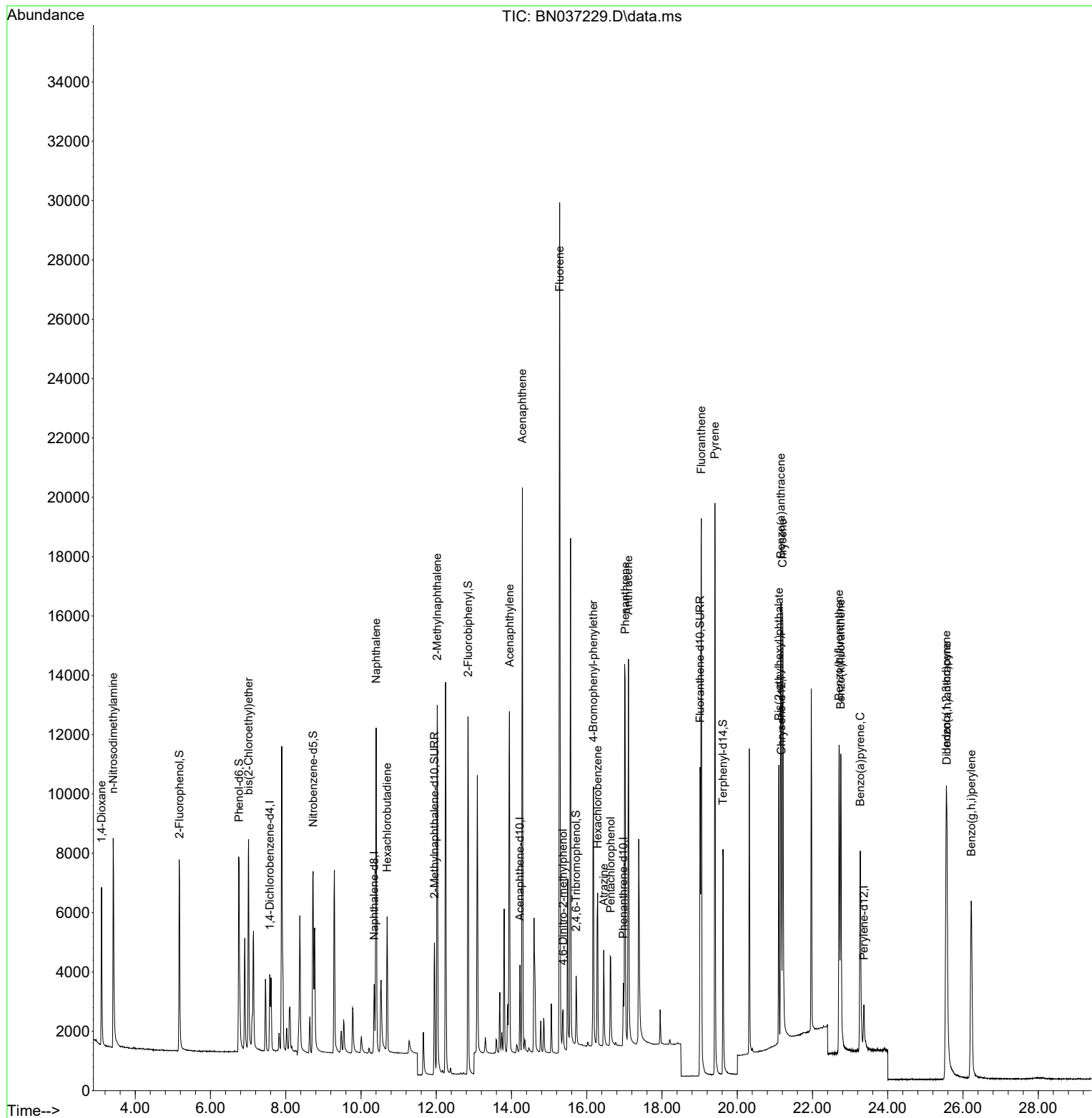
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1193	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2881	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1539	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2917	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2167	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	2036	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	4755	1.623	ng	0.00
5) Phenol-d6	6.759	99	5480	1.774	ng	0.00
8) Nitrobenzene-d5	8.728	82	5073	1.782	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	6642	1.718	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1157	1.810	ng	-0.01
15) 2-Fluorobiphenyl	12.848	172	11216	1.734	ng	0.00
27) Fluoranthene-d10	19.012	212	12285	1.610	ng	0.00
31) Terphenyl-d14	19.621	244	8579	1.751	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	2620	1.601	ng	93
3) n-Nitrosodimethylamine	3.415	42	6179	1.657	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	5181	1.873	ng	92
9) Naphthalene	10.404	128	13925	1.669	ng	96
10) Hexachlorobutadiene	10.693	225	3281	1.617	ng	# 96
12) 2-Methylnaphthalene	12.026	142	8865	1.748	ng	99
16) Acenaphthylene	13.946	152	12787	1.696	ng	99
17) Acenaphthene	14.288	154	8258	1.696	ng	99
18) Fluorene	15.282	166	10814	1.730	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	1171	1.596	ng	# 47
21) 4-Bromophenyl-phenylether	16.177	248	3248	1.709	ng	# 85
22) Hexachlorobenzene	16.289	284	3460	1.570	ng	98
23) Atrazine	16.450	200	2809	1.657	ng	90
24) Pentachlorophenol	16.636	266	1800	1.667	ng	97
25) Phenanthrene	17.021	178	15448	1.670	ng	99
26) Anthracene	17.108	178	14243	1.682	ng	100
28) Fluoranthene	19.045	202	17611	1.626	ng	99
30) Pyrene	19.407	202	17479	1.716	ng	100
32) Benzo(a)anthracene	21.162	228	13105	1.791	ng	97
33) Chrysene	21.207	228	14835	1.627	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	8716	1.599	ng	99
36) Indeno(1,2,3-cd)pyrene	25.555	276	13992	1.704	ng	97
37) Benzo(b)fluoranthene	22.708	252	13177	1.769	ng	# 87
38) Benzo(k)fluoranthene	22.752	252	14311	1.675	ng	# 88
39) Benzo(a)pyrene	23.269	252	11458	1.710	ng	# 81
40) Dibenzo(a,h)anthracene	25.570	278	11091	1.793	ng	# 83
41) Benzo(g,h,i)perylene	26.219	276	12677	1.665	ng	95

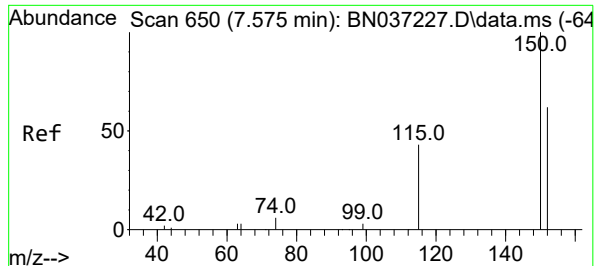
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037229.D
Acq On : 13 Jun 2025 15:59
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

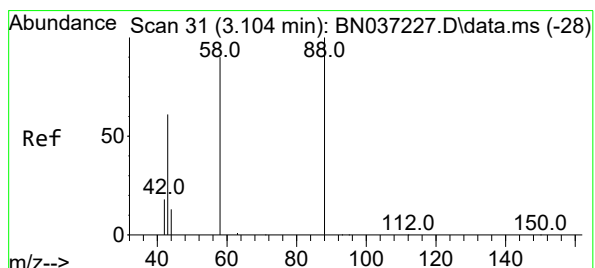
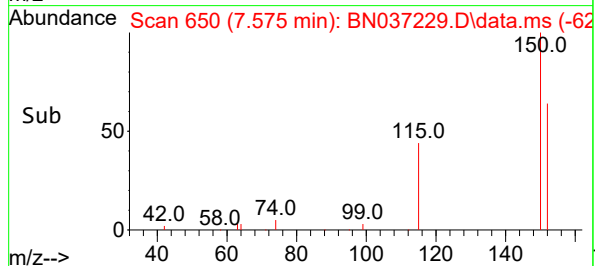
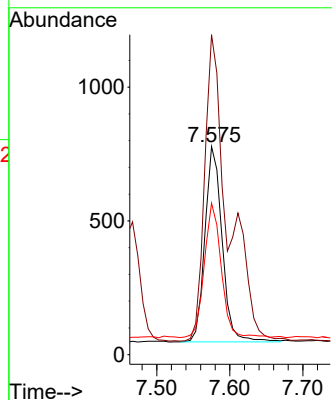
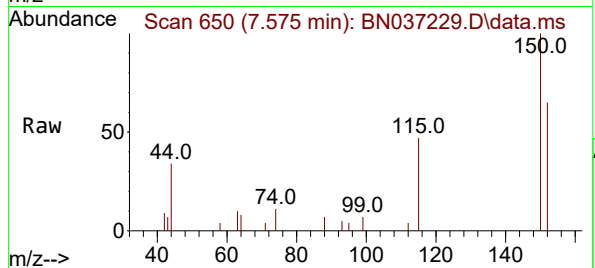




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

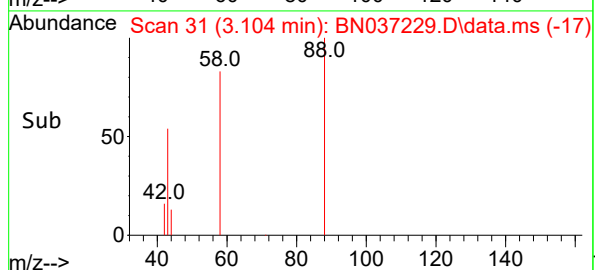
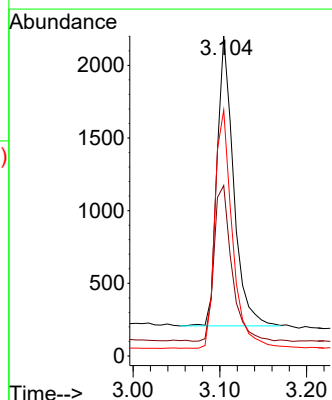
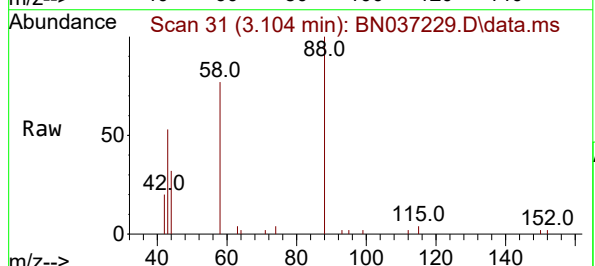
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

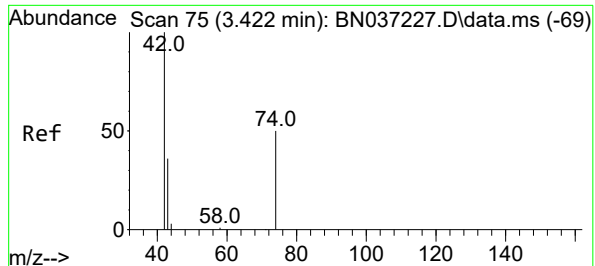
Tgt Ion:152 Resp: 1193
Ion Ratio Lower Upper
152 100
150 153.7 125.2 187.8
115 72.8 58.4 87.6



#2
1,4-Dioxane
Concen: 1.601 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 88 Resp: 2620
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 87.4 73.5 110.3

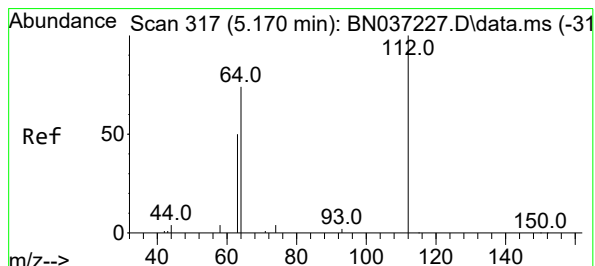
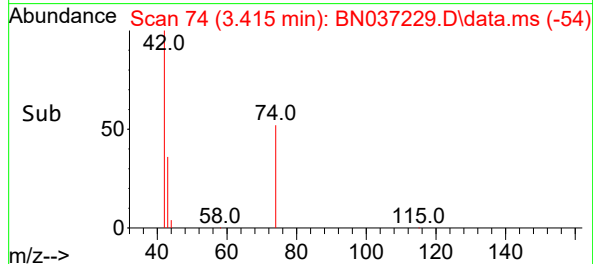
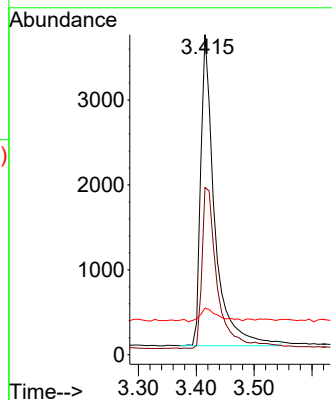
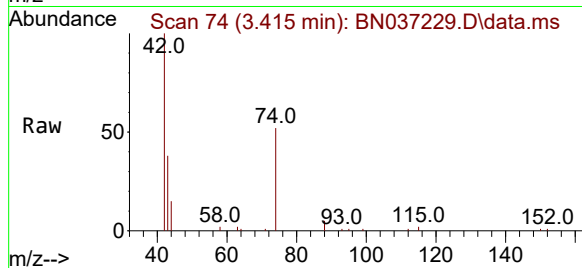




#3
n-Nitrosodimethylamine
Concen: 1.657 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

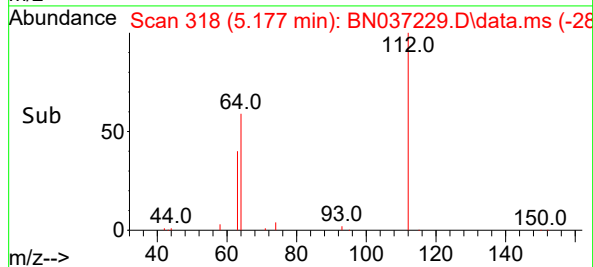
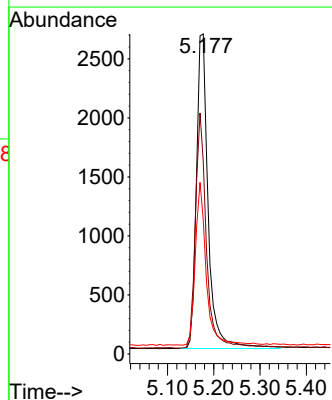
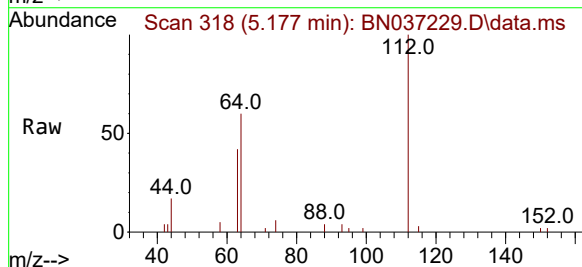
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

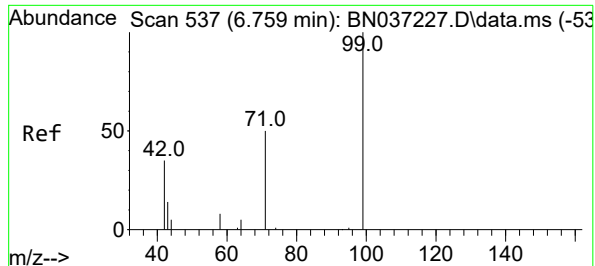
Tgt Ion: 42 Resp: 6179
Ion Ratio Lower Upper
42 100
74 57.5 44.6 66.8
44 5.7 3.5 5.3#



#4
2-Fluorophenol
Concen: 1.623 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion: 112 Resp: 4755
Ion Ratio Lower Upper
112 100
64 69.7 57.2 85.8
63 47.7 39.8 59.6

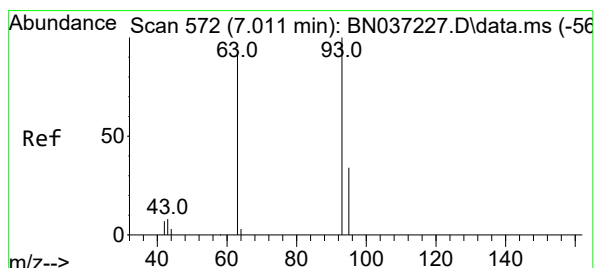
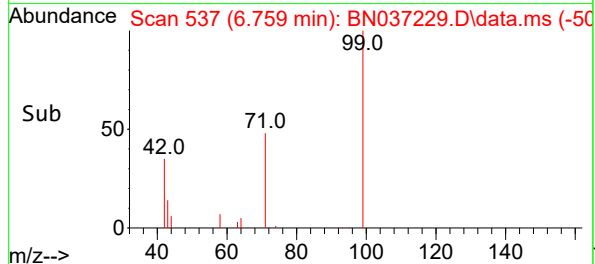
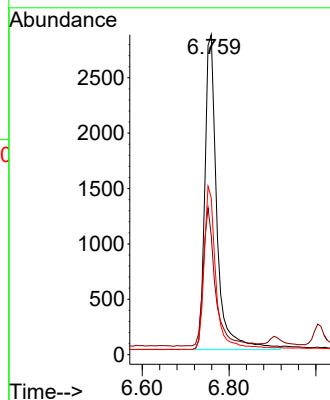
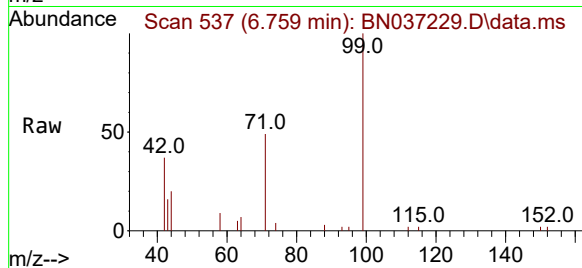




#5
Phenol-d6
Concen: 1.774 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

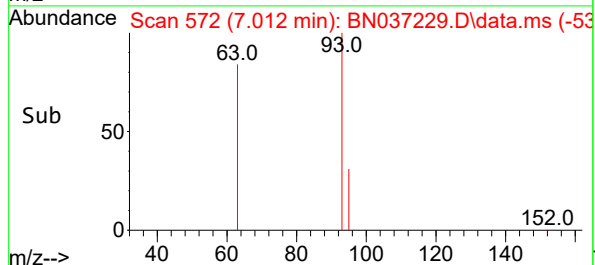
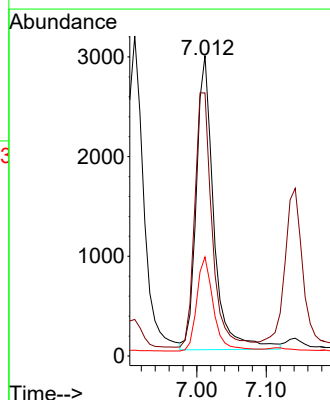
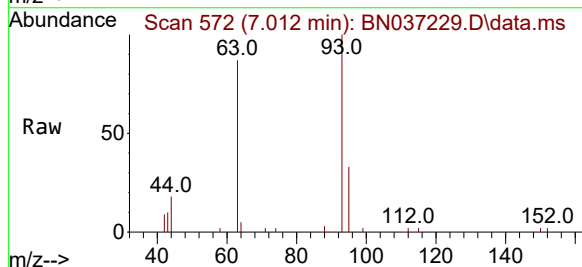
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

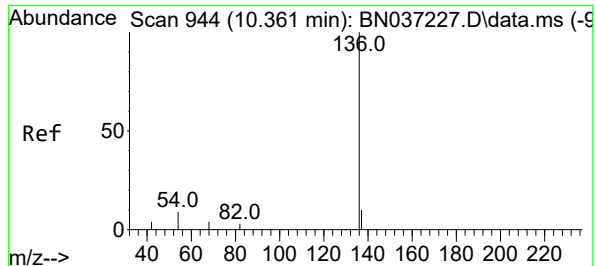
Tgt Ion	Ratio	Lower	Upper
99	100		
42	44.0	36.2	54.4
71	50.7	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 1.873 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.4	75.2	112.8
95	30.5	28.3	42.5

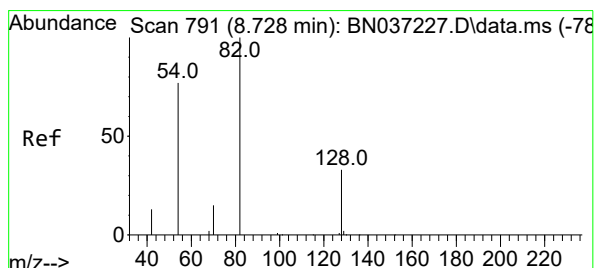
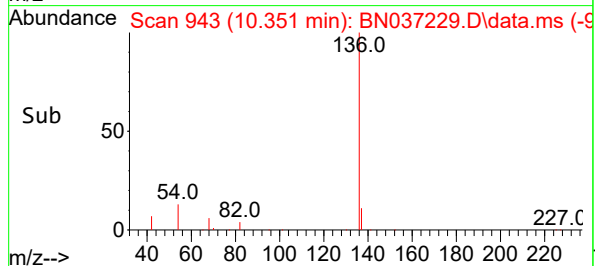
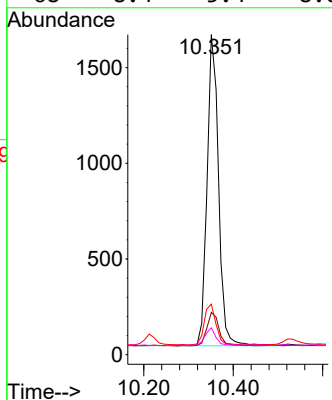
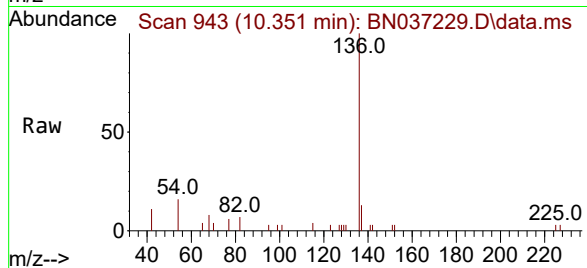




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

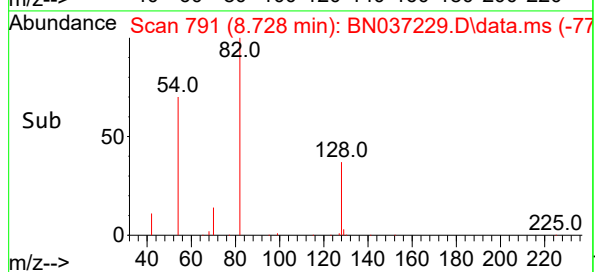
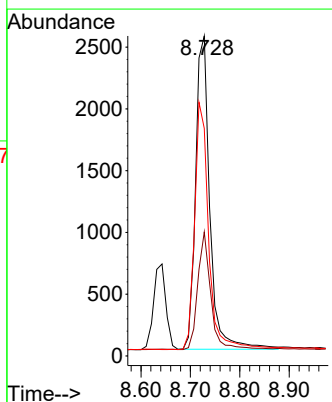
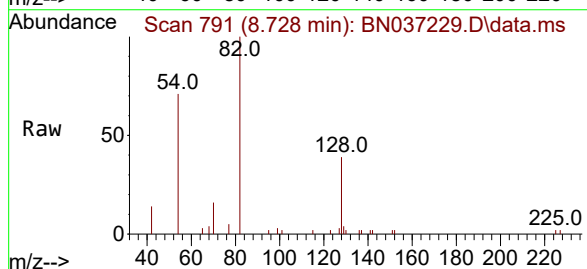
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

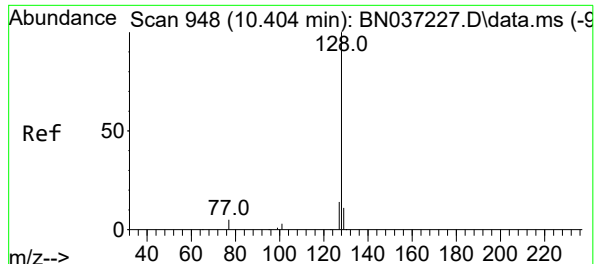
Tgt Ion:	136	Resp:	2881
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	15.8	9.2	13.8#
68	8.4	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 1.782 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:	82	Resp:	5073
Ion	Ratio	Lower	Upper
82	100		
128	38.7	31.2	46.8
54	71.1	63.3	94.9

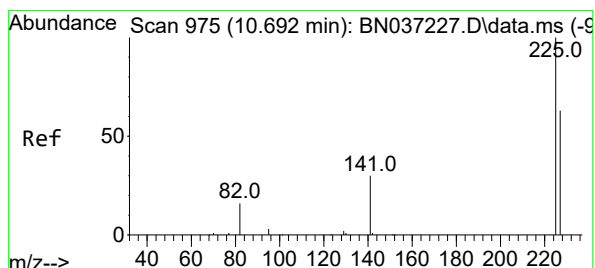
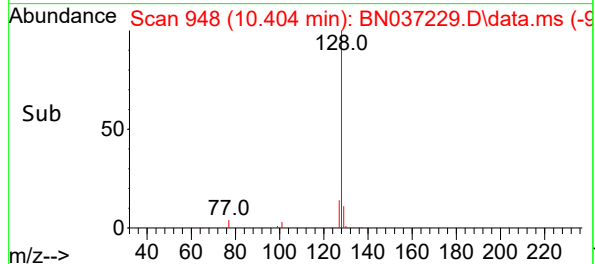
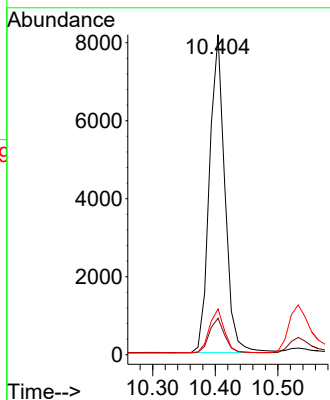
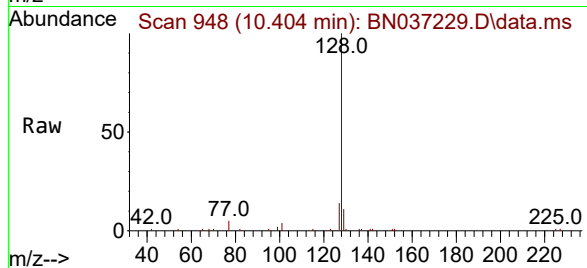




#9
Naphthalene
Concen: 1.669 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

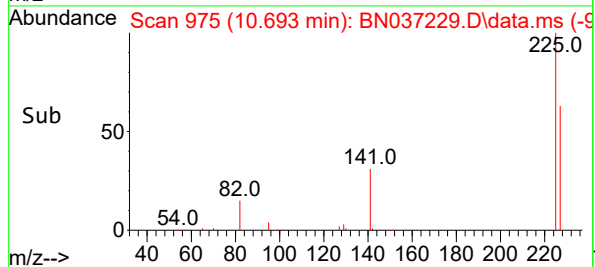
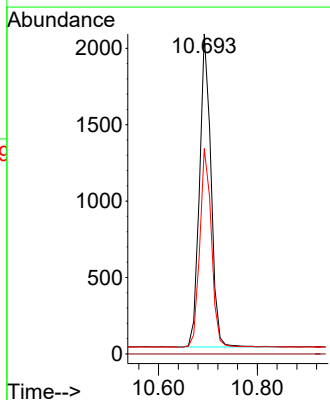
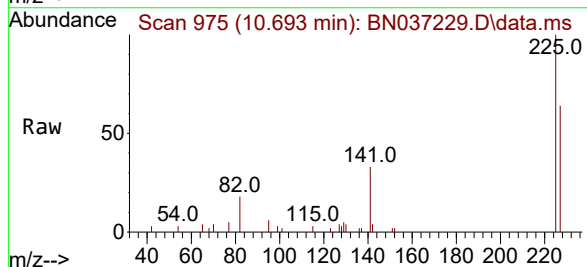
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

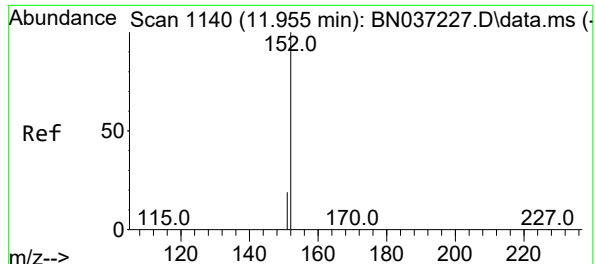
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	10.7	16.1
127	14.2	12.6	19.0



#10
Hexachlorobutadiene
Concen: 1.617 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	49.2	73.8

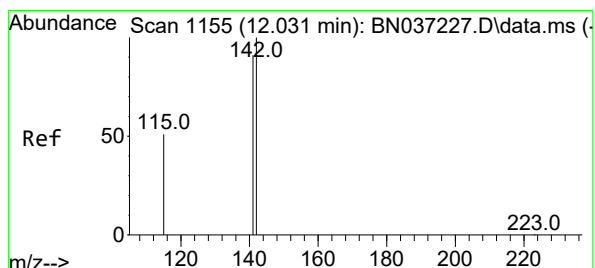
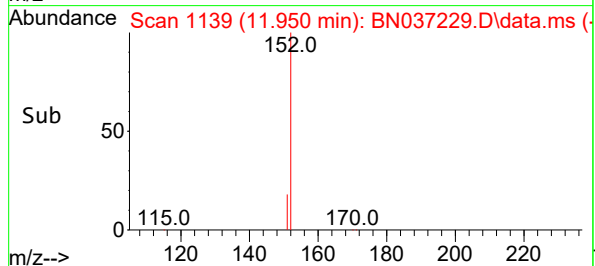
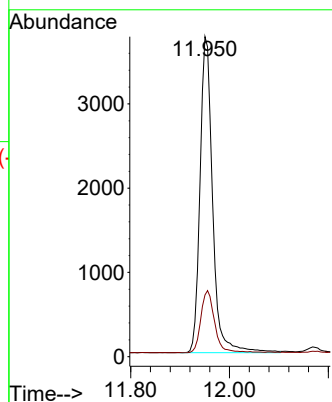
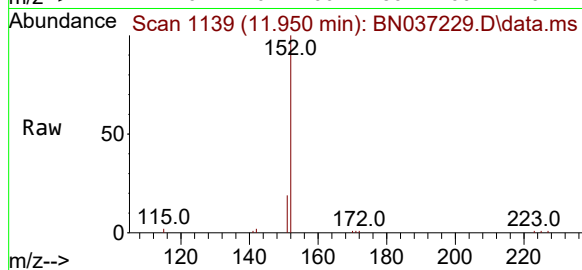




#11
2-Methylnaphthalene-d10
Concen: 1.718 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

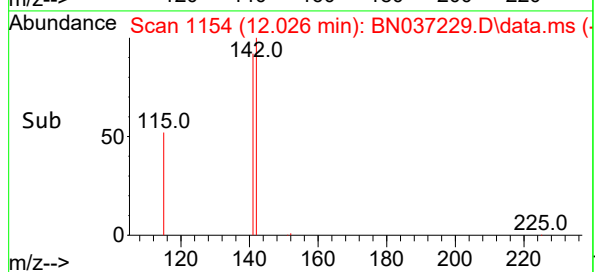
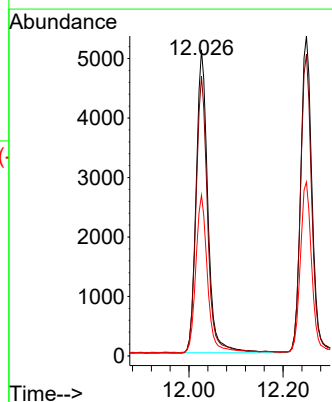
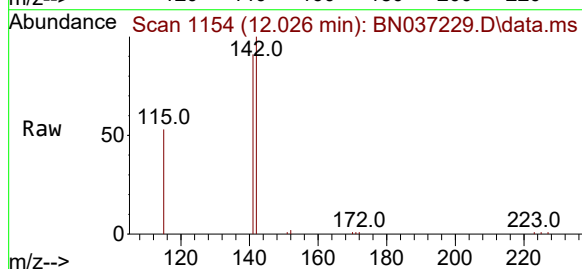
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

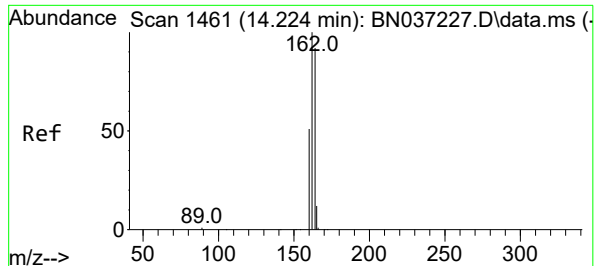
Tgt Ion:152 Resp: 6642
Ion Ratio Lower Upper
152 100
151 21.6 17.9 26.9



#12
2-Methylnaphthalene
Concen: 1.748 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:142 Resp: 8865
Ion Ratio Lower Upper
142 100
141 91.4 73.0 109.6
115 52.5 43.3 64.9

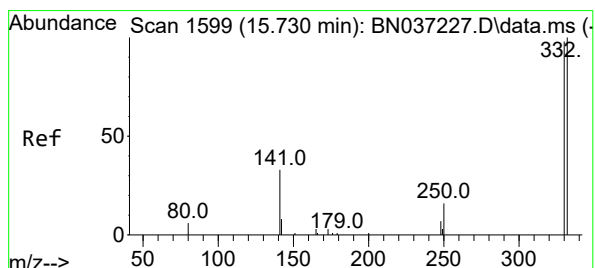
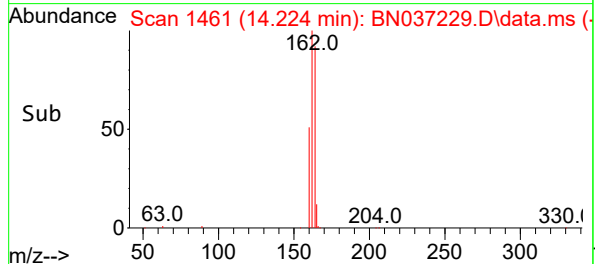
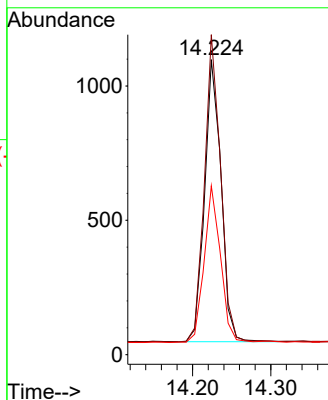
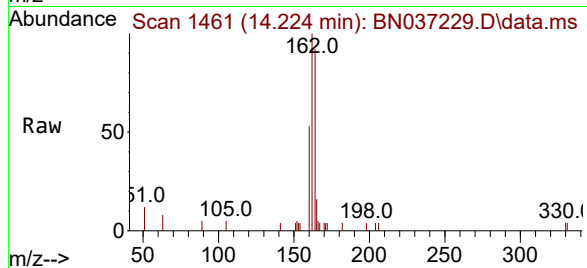




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

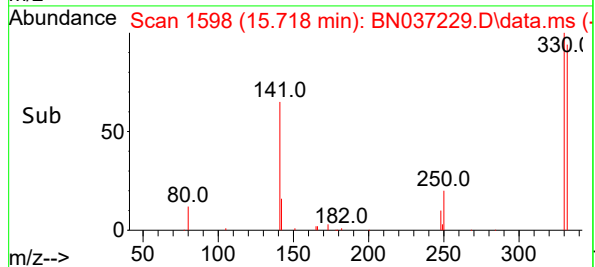
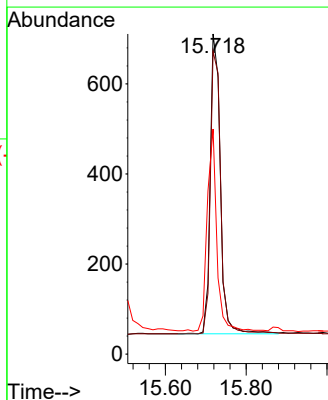
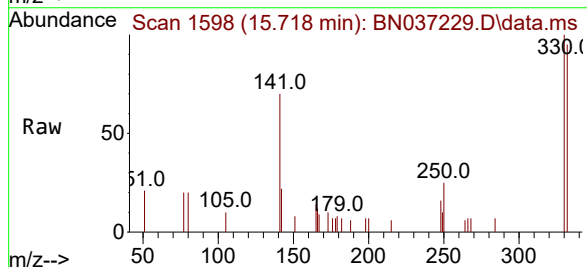
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

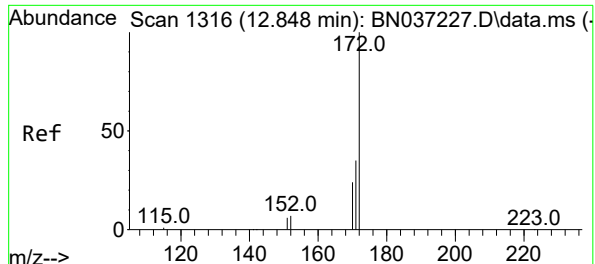
Tgt Ion:164 Resp: 1539
Ion Ratio Lower Upper
164 100
162 108.5 86.7 130.1
160 57.2 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 1.810 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:330 Resp: 1157
Ion Ratio Lower Upper
330 100
332 95.2 74.9 112.3
141 63.4 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 1.734 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

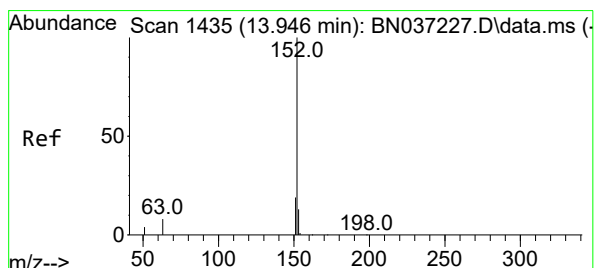
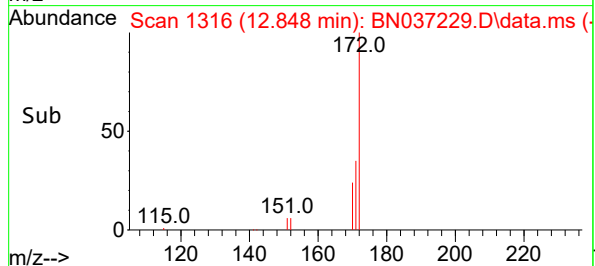
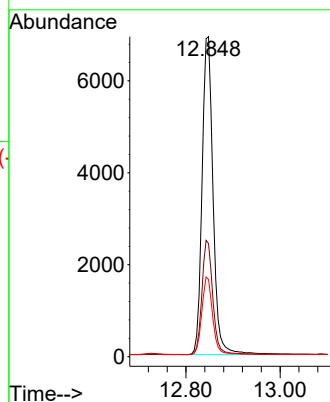
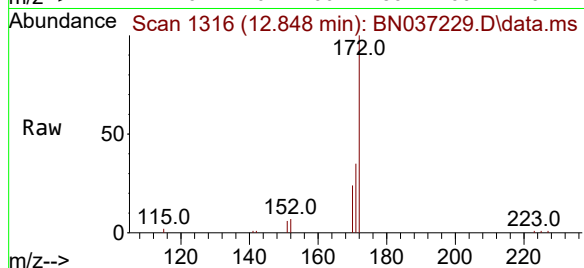
Tgt Ion:172 Resp: 11216

Ion Ratio Lower Upper

172 100

171 35.4 29.8 44.8

170 24.2 21.1 31.7



#16

Acenaphthylene

Concen: 1.696 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

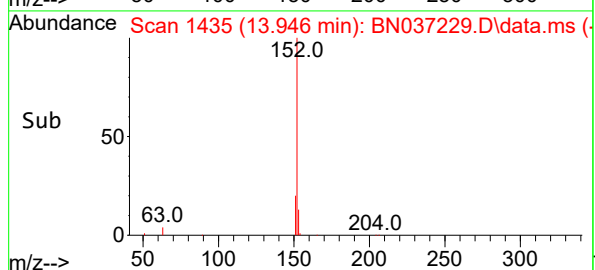
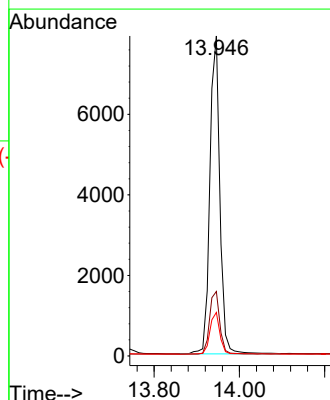
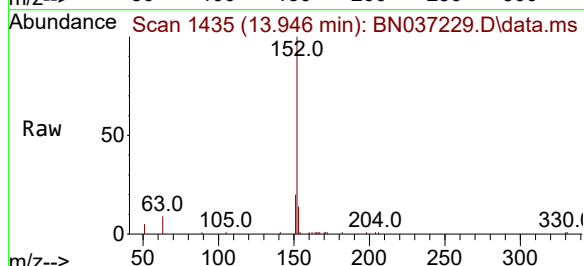
Tgt Ion:152 Resp: 12787

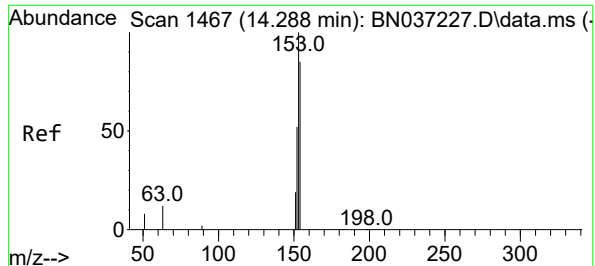
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 13.1 10.7 16.1





#17

Acenaphthene

Concen: 1.696 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

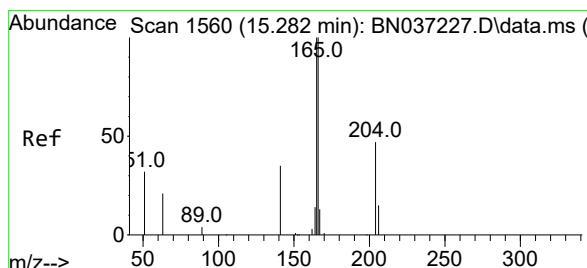
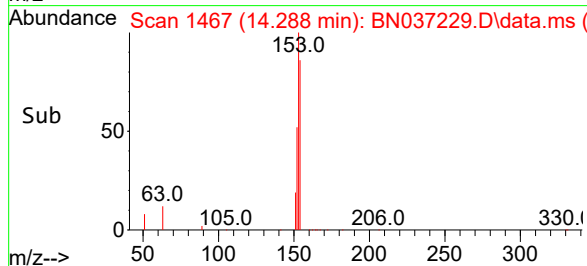
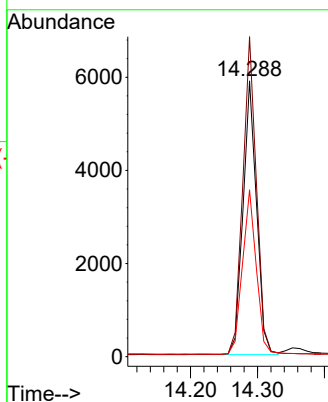
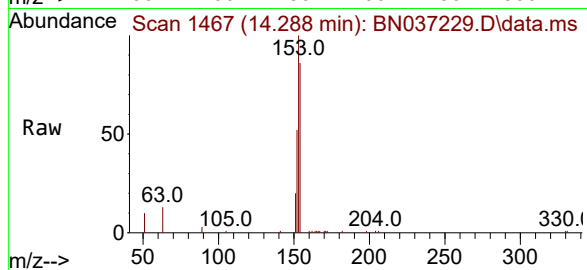
Tgt Ion:154 Resp: 8258

Ion Ratio Lower Upper

154 100

153 117.2 94.6 141.8

152 61.4 49.6 74.4



#18

Fluorene

Concen: 1.730 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

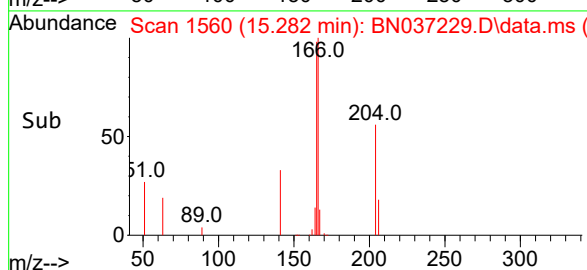
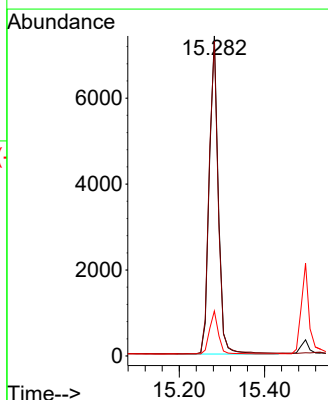
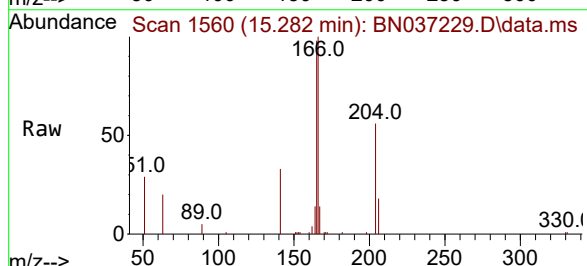
Tgt Ion:166 Resp: 10814

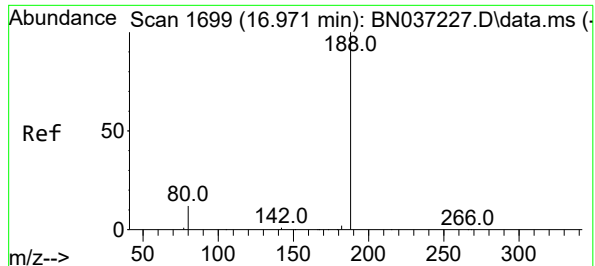
Ion Ratio Lower Upper

166 100

165 99.8 79.8 119.6

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

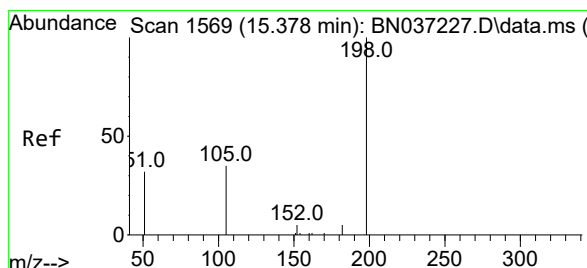
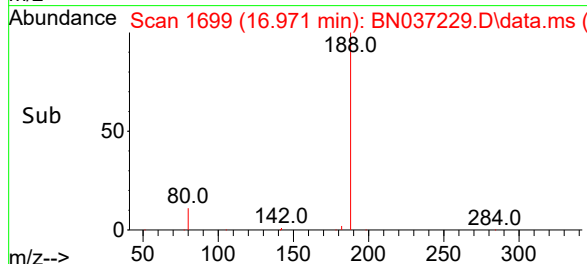
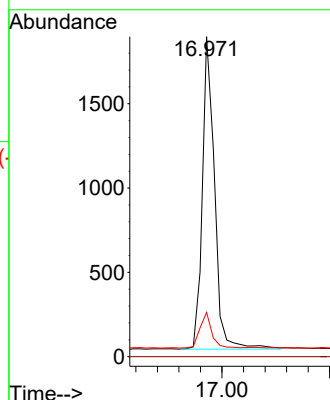
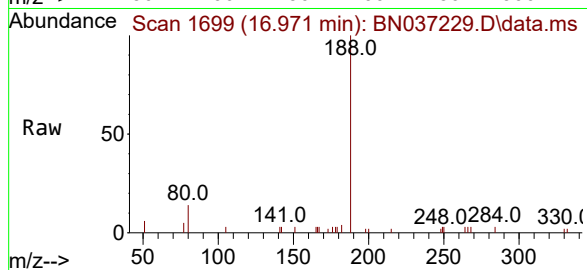
Tgt Ion:188 Resp: 2917

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.596 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

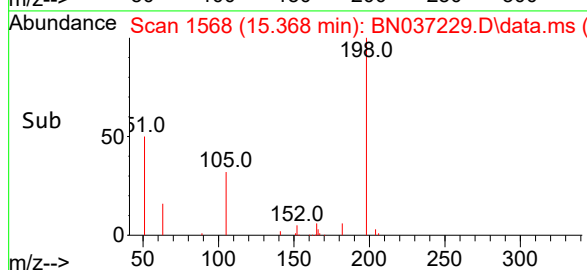
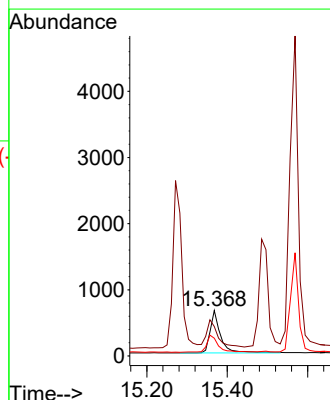
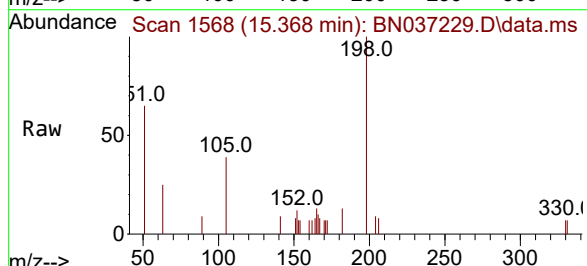
Tgt Ion:198 Resp: 1171

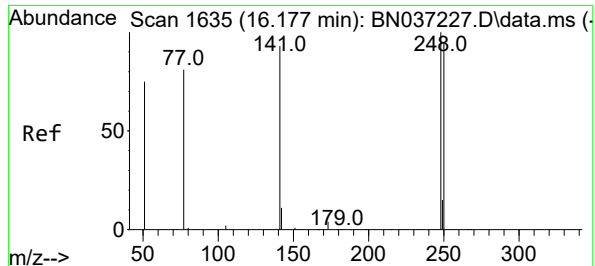
Ion Ratio Lower Upper

198 100

51 64.8 111.2 166.8#

105 39.0 54.0 81.0#





#21

4-Bromophenyl-phenylether

Concen: 1.709 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

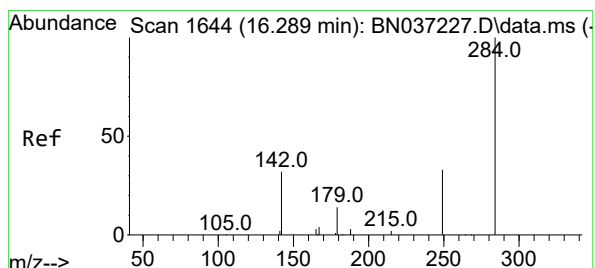
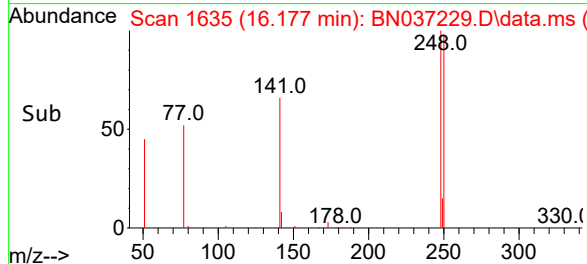
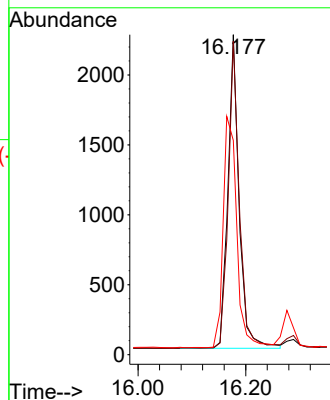
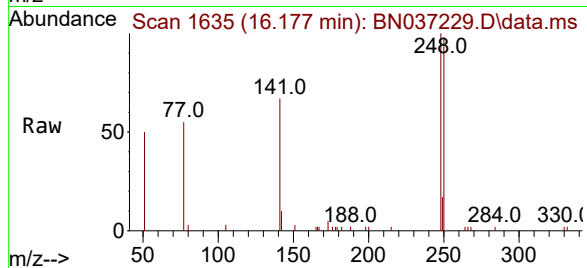
Tgt Ion:248 Resp: 3248

Ion Ratio Lower Upper

248 100

250 98.0 76.8 115.2

141 67.0 75.6 113.4#



#22

Hexachlorobenzene

Concen: 1.570 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

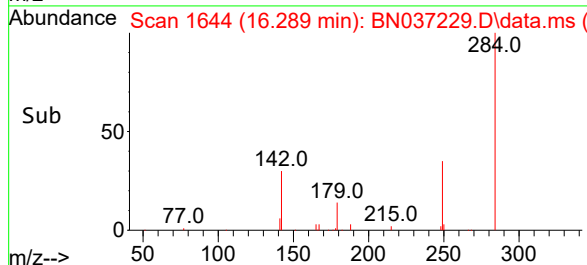
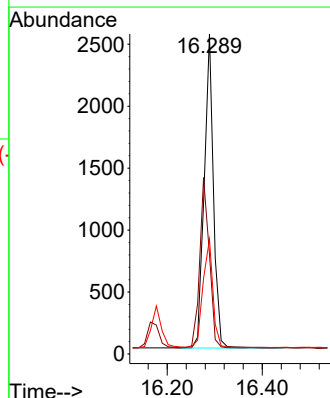
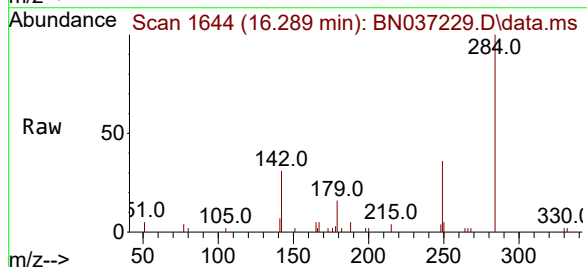
Tgt Ion:284 Resp: 3460

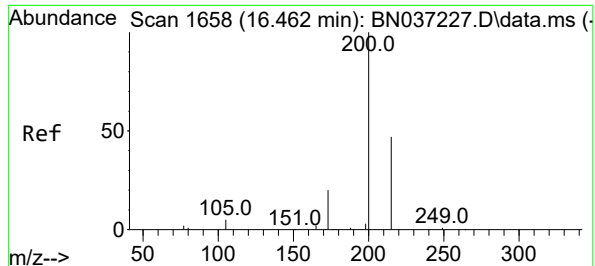
Ion Ratio Lower Upper

284 100

142 56.0 43.8 65.6

249 36.7 28.4 42.6

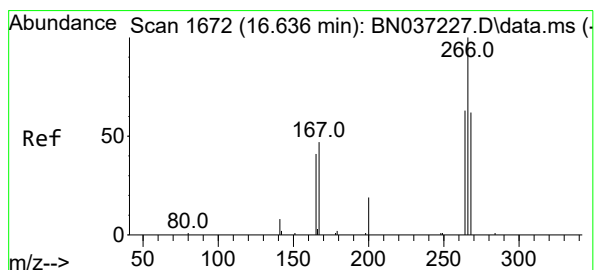
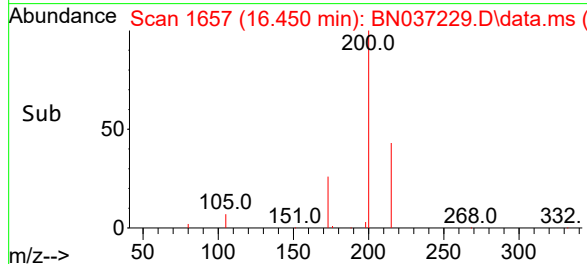
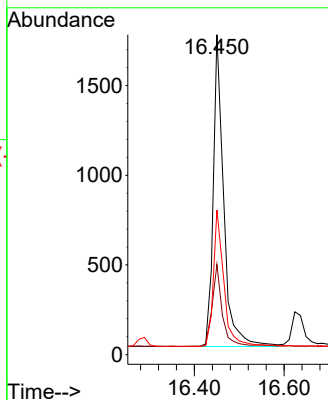
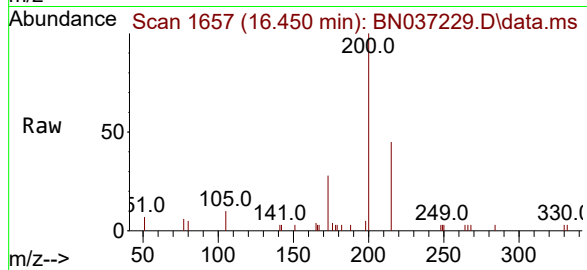




#23
Atrazine
Concen: 1.657 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

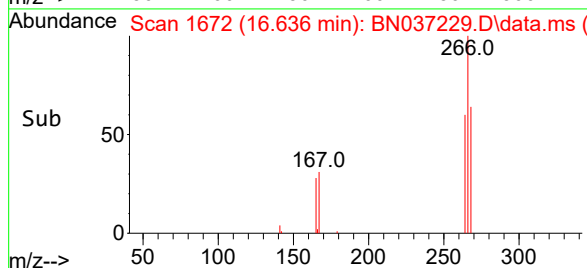
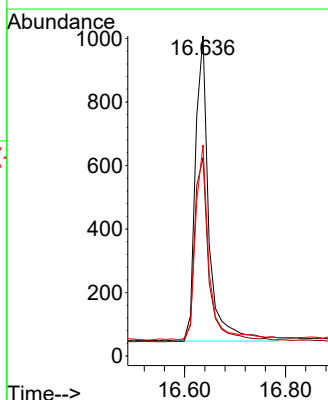
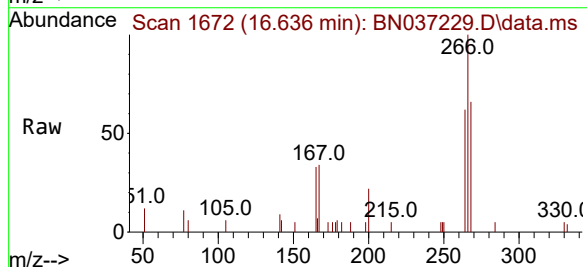
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

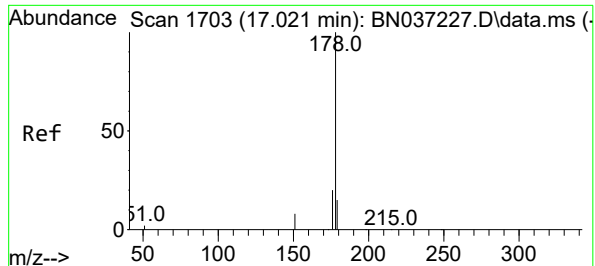
Tgt Ion:200 Resp: 2809
Ion Ratio Lower Upper
200 100
173 28.2 25.1 37.7
215 45.2 43.7 65.5



#24
Pentachlorophenol
Concen: 1.667 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:266 Resp: 1800
Ion Ratio Lower Upper
266 100
264 63.8 49.2 73.8
268 63.8 53.4 80.2





#25

Phenanthrene

Concen: 1.670 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

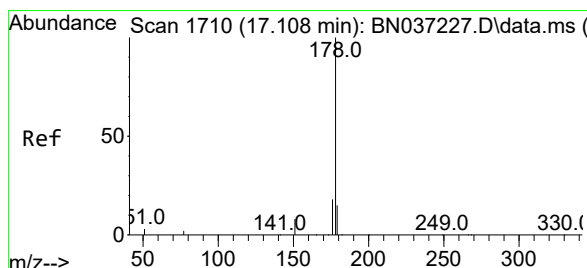
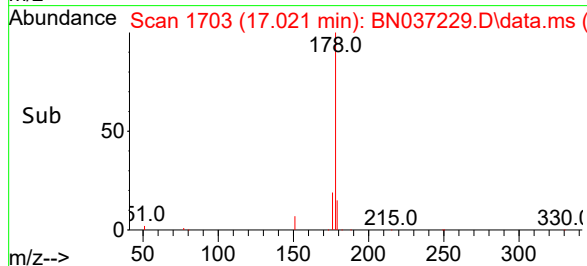
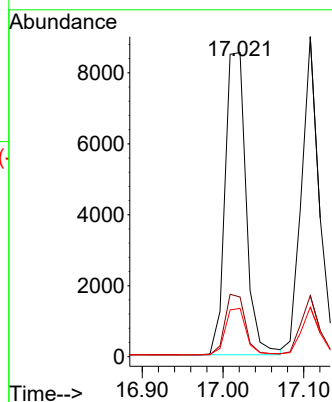
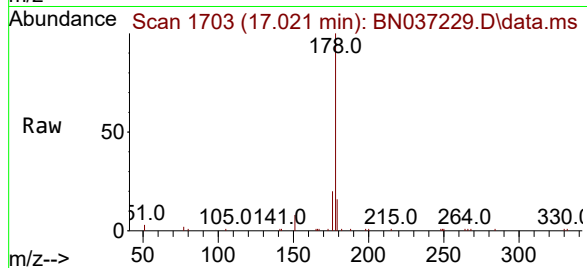
Tgt Ion:178 Resp: 15448

Ion Ratio Lower Upper

178 100

176 19.7 16.3 24.5

179 15.2 12.6 18.8



#26

Anthracene

Concen: 1.682 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

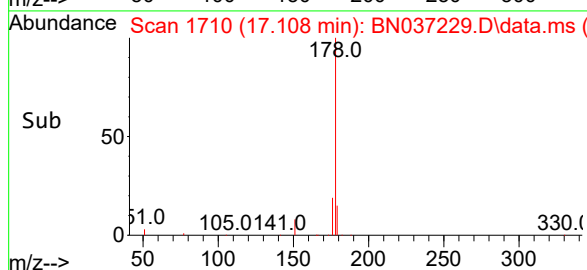
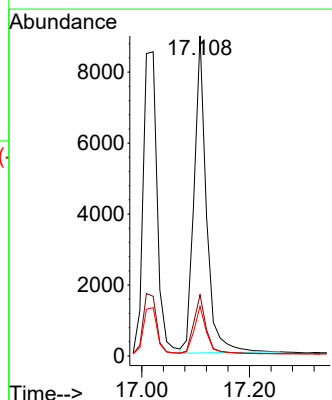
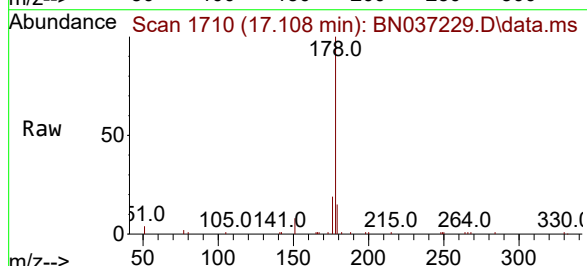
Tgt Ion:178 Resp: 14243

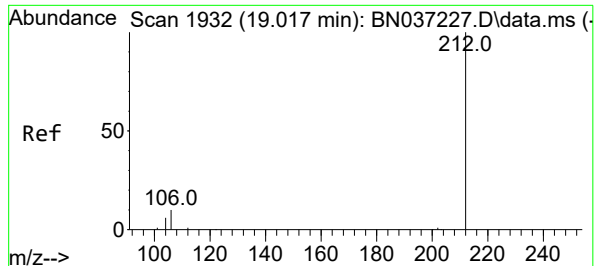
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.610 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

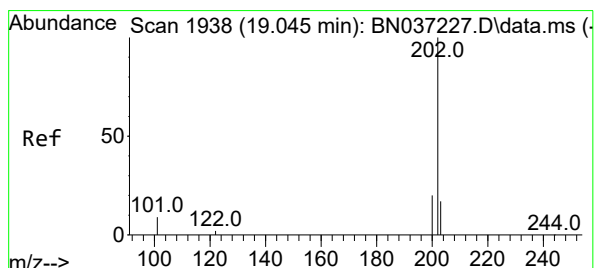
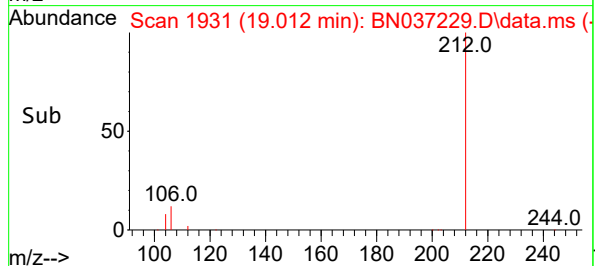
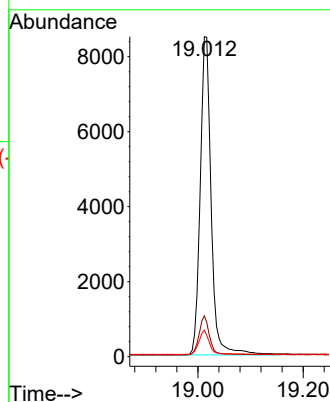
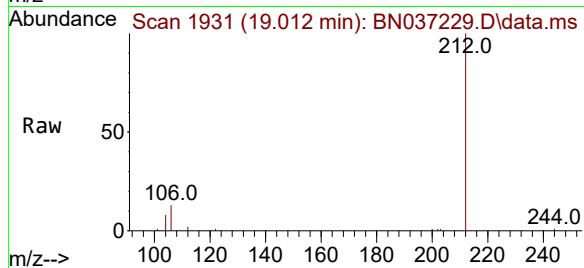
Tgt Ion:212 Resp: 12285

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 1.626 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

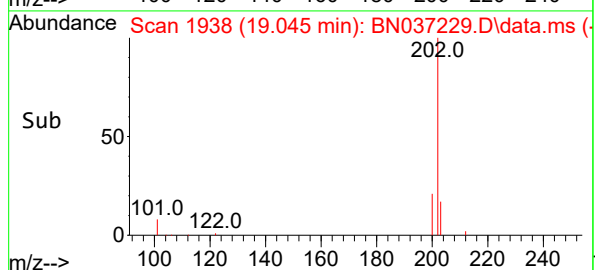
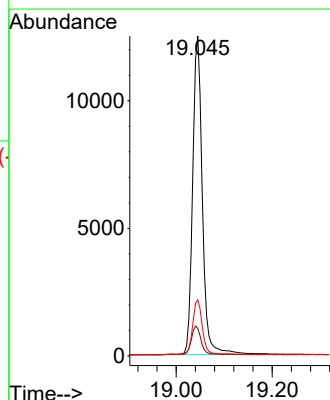
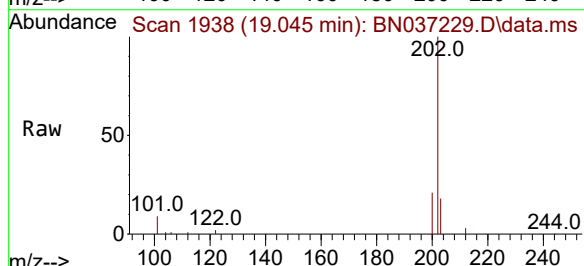
Tgt Ion:202 Resp: 17611

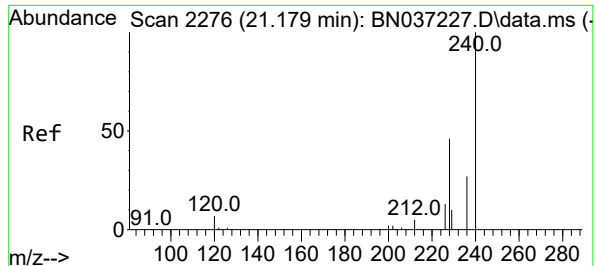
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 17.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

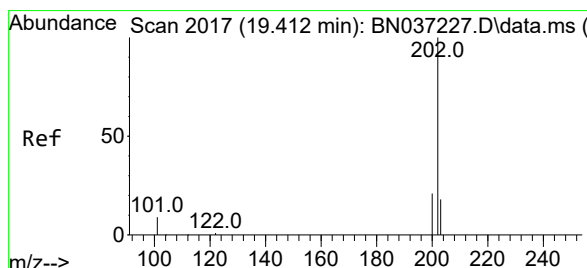
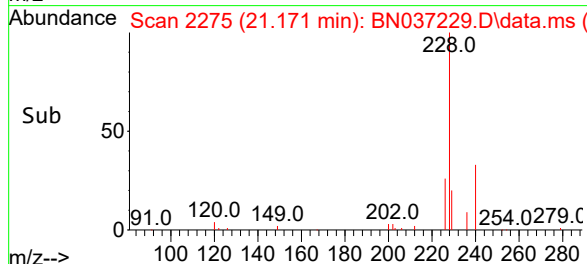
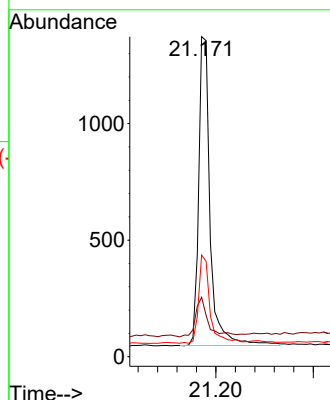
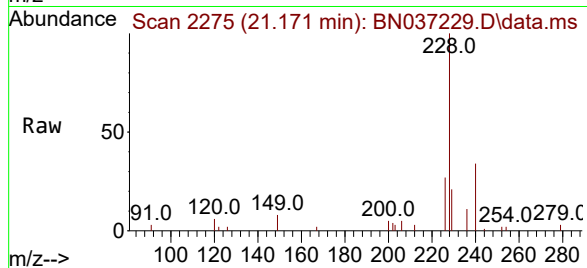
Tgt Ion:240 Resp: 2167

Ion Ratio Lower Upper

240 100

120 18.6 11.3 16.9#

236 31.8 24.4 36.6



#30

Pyrene

Concen: 1.716 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

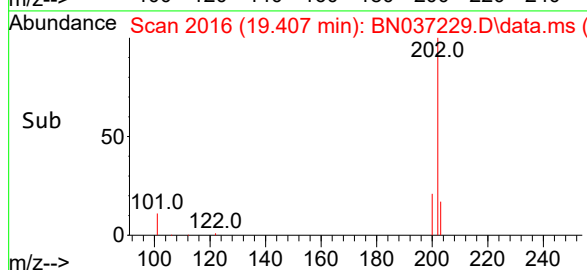
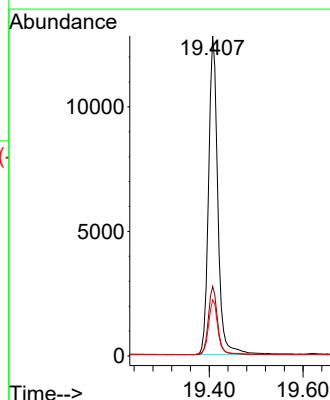
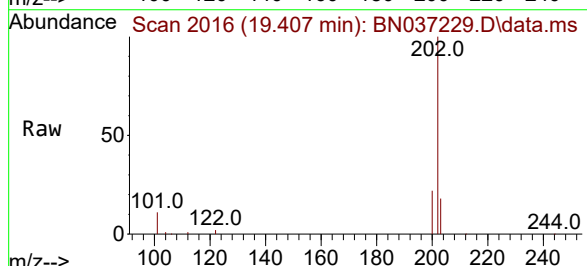
Tgt Ion:202 Resp: 17479

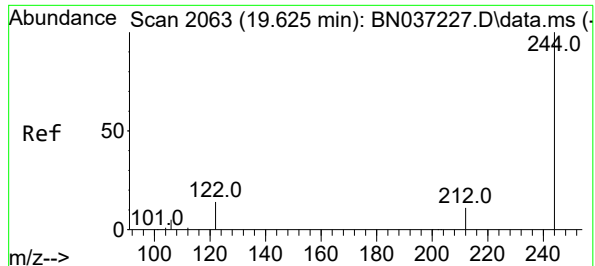
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.7 14.3 21.5

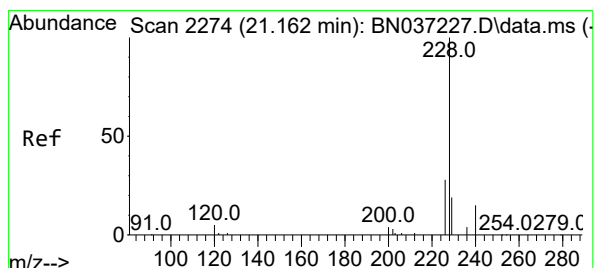
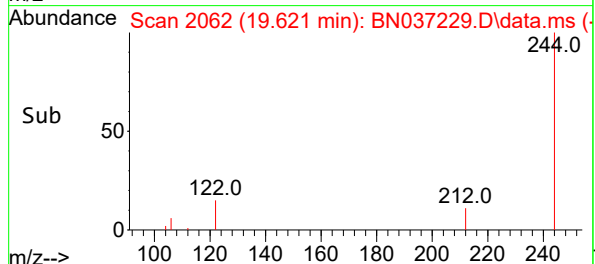
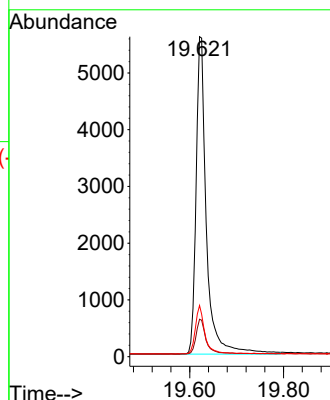
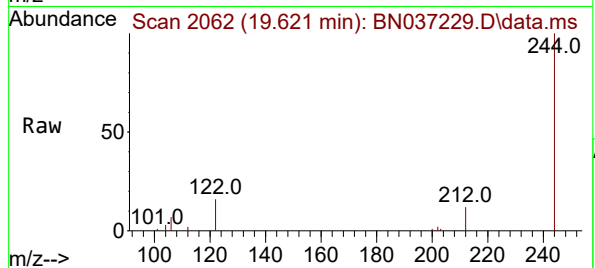




#31
Terphenyl-d14
Concen: 1.751 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.004 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

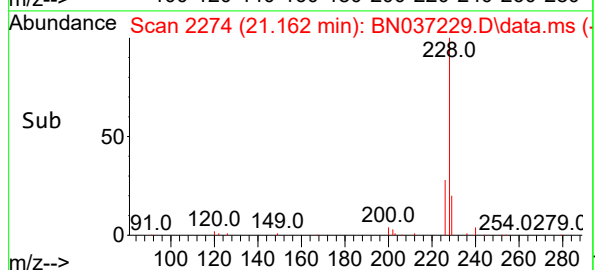
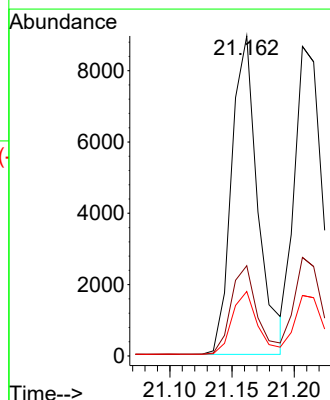
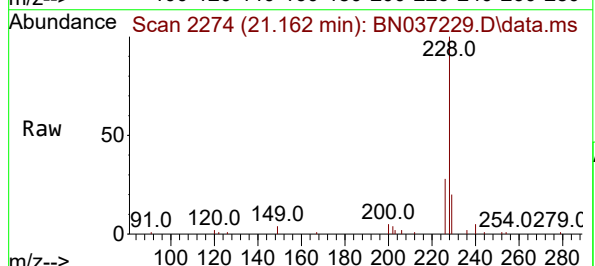
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

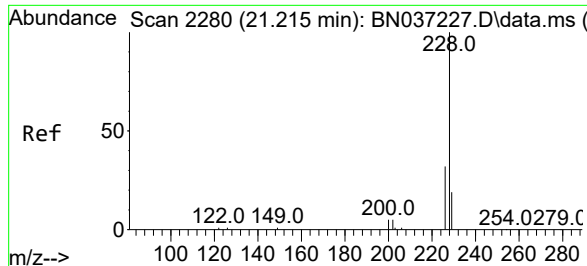
Tgt Ion:244 Resp: 8579
Ion Ratio Lower Upper
244 100
212 11.7 12.2 18.2#
122 16.0 14.3 21.5



#32
Benzo(a)anthracene
Concen: 1.791 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037229.D
Acq: 13 Jun 2025 15:59

Tgt Ion:228 Resp: 13105
Ion Ratio Lower Upper
228 100
226 28.2 23.8 35.8
229 20.1 17.0 25.4





#33

Chrysene

Concen: 1.627 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

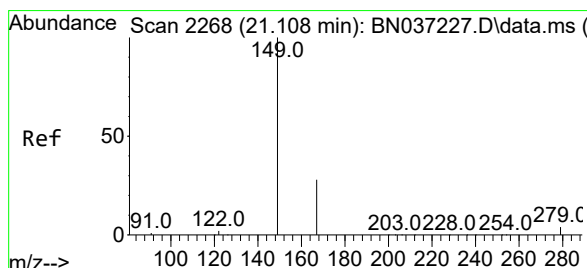
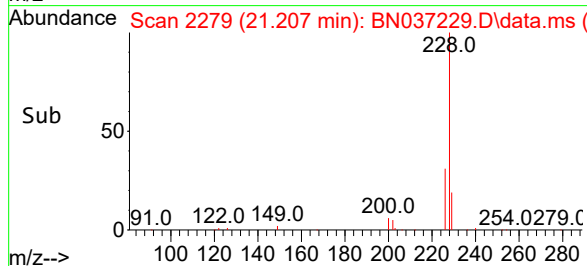
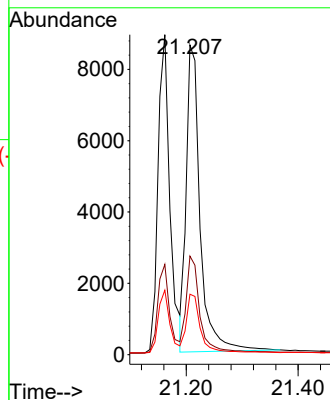
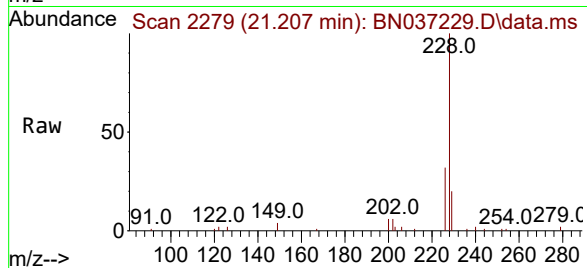
Tgt Ion:228 Resp: 14835

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 19.6 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.599 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

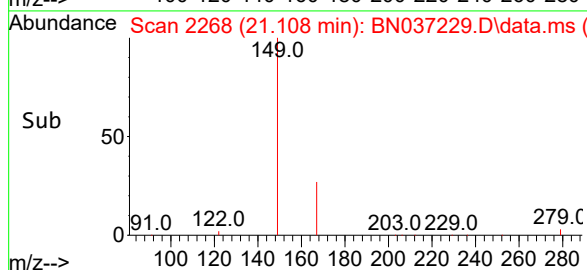
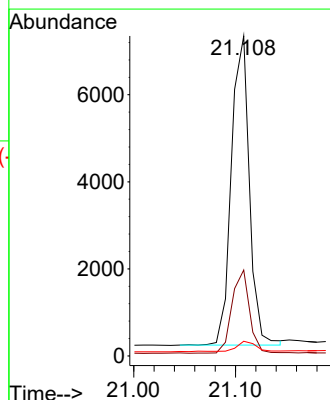
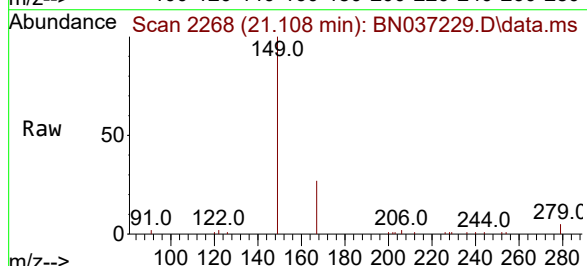
Tgt Ion:149 Resp: 8716

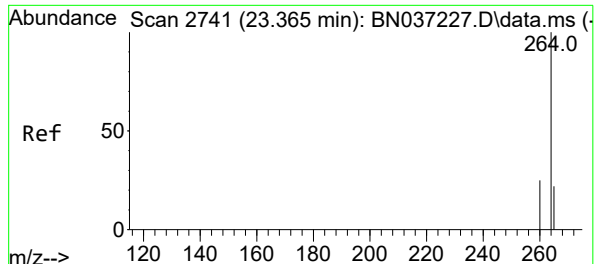
Ion Ratio Lower Upper

149 100

167 26.3 21.3 31.9

279 3.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

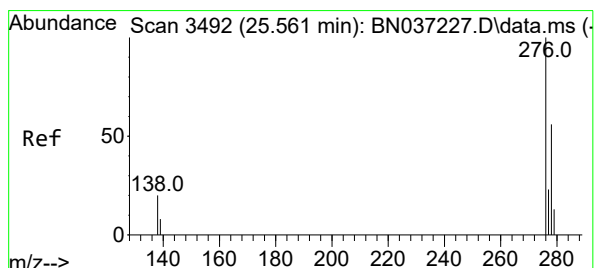
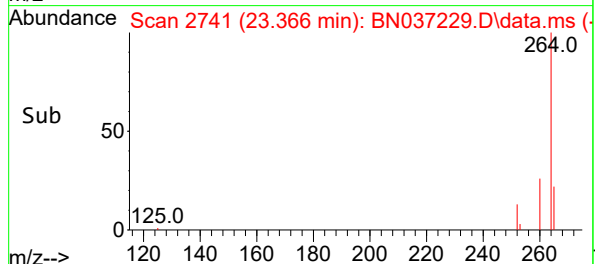
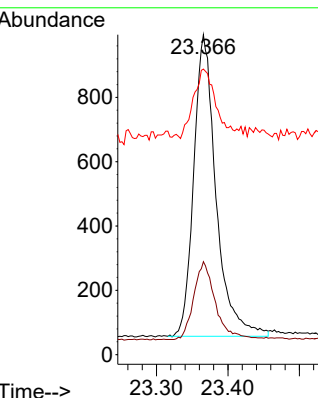
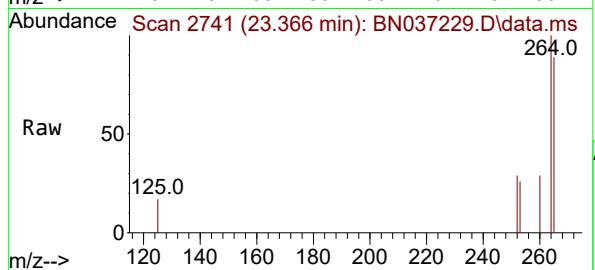
Tgt Ion:264 Resp: 2036

Ion Ratio Lower Upper

264 100

260 29.0 22.8 34.2

265 89.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.704 ng

RT: 25.555 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

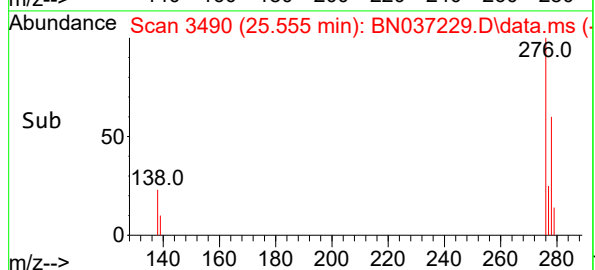
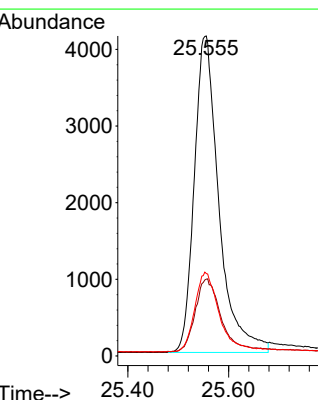
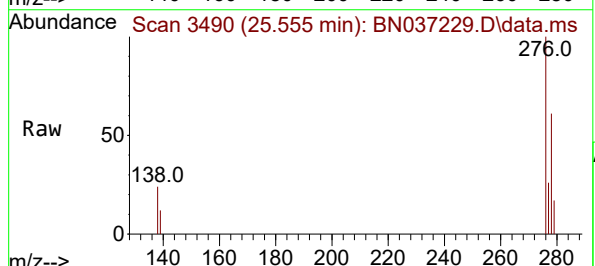
Tgt Ion:276 Resp: 13992

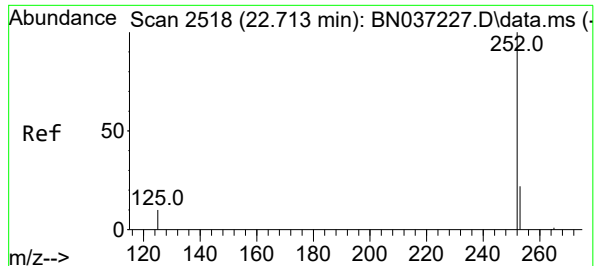
Ion Ratio Lower Upper

276 100

138 23.7 16.8 25.2

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.769 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

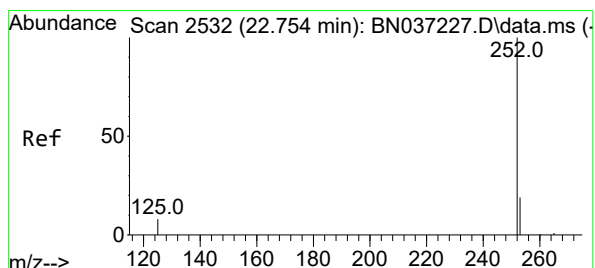
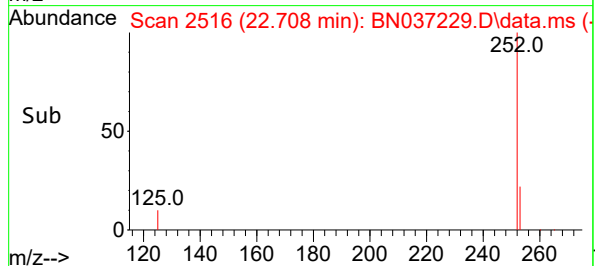
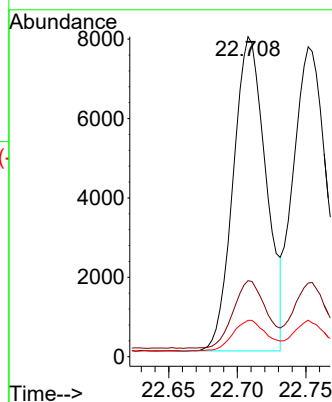
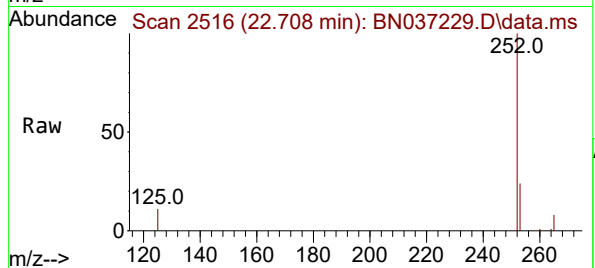
Tgt Ion:252 Resp: 13177

Ion Ratio Lower Upper

252 100

253 23.8 24.9 37.3#

125 11.4 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 1.675 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

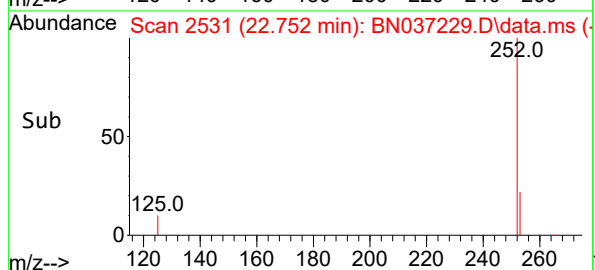
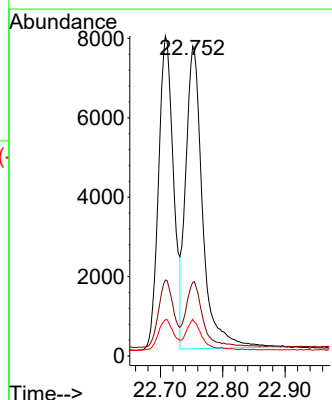
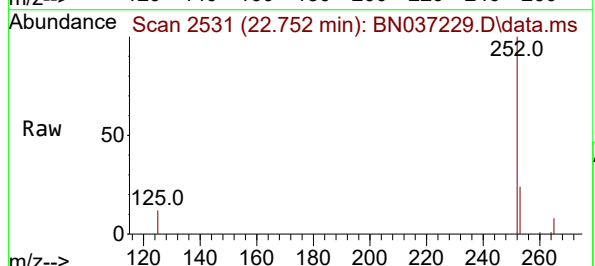
Tgt Ion:252 Resp: 14311

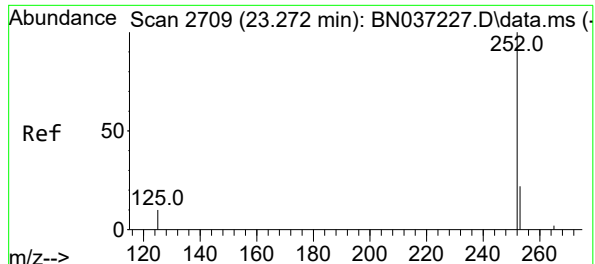
Ion Ratio Lower Upper

252 100

253 23.8 24.6 37.0#

125 11.8 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 1.710 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

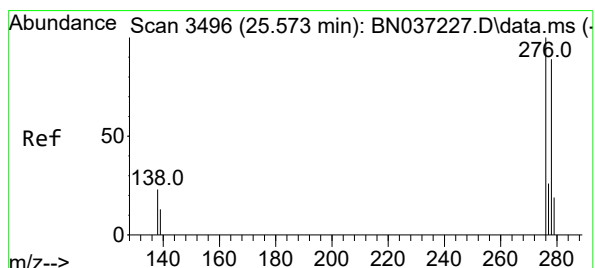
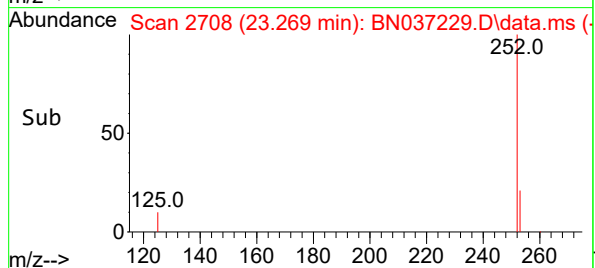
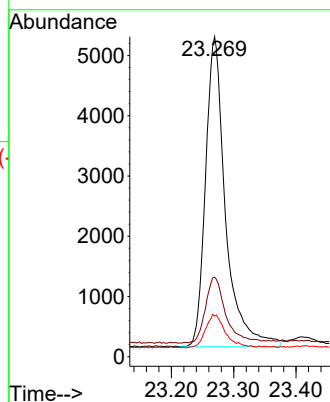
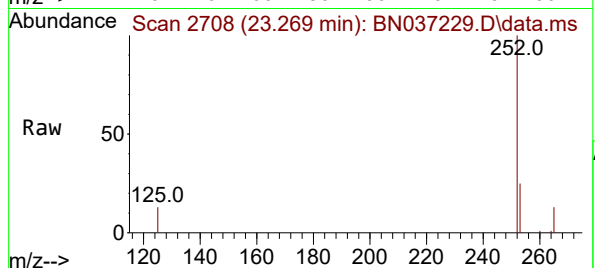
Tgt Ion:252 Resp: 11458

Ion Ratio Lower Upper

252 100

253 24.9 29.4 44.2#

125 12.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.793 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

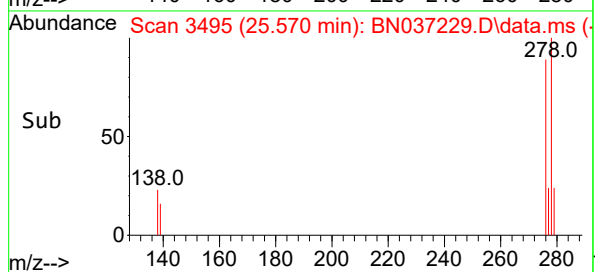
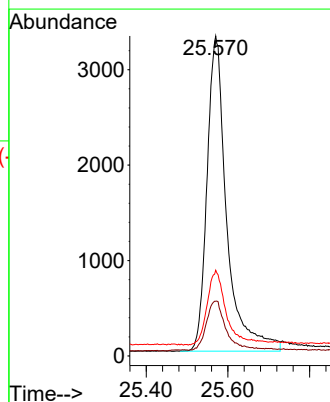
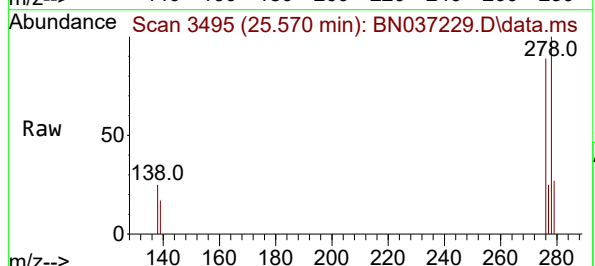
Tgt Ion:278 Resp: 11091

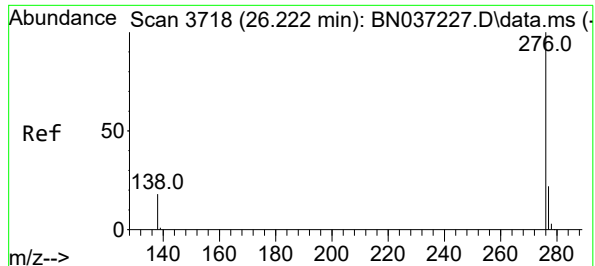
Ion Ratio Lower Upper

278 100

139 17.1 17.8 26.6#

279 26.8 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 1.665 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037229.D

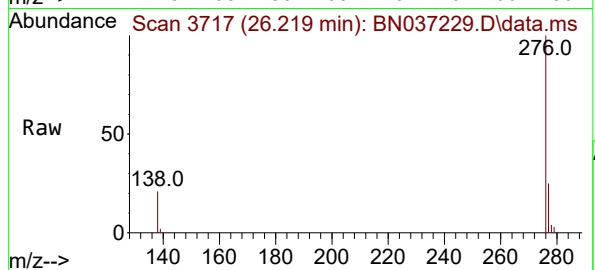
Acq: 13 Jun 2025 15:59

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



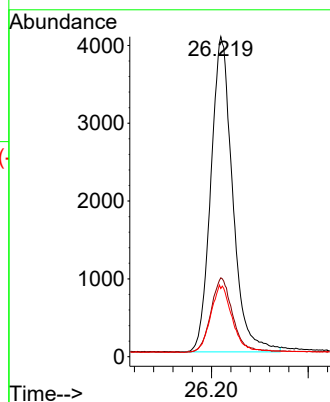
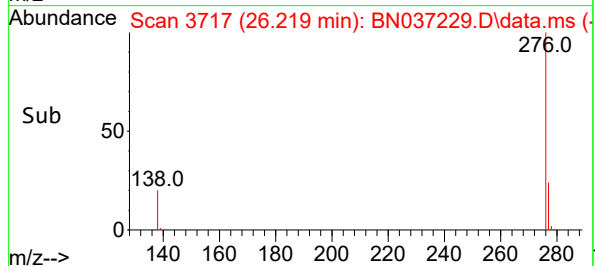
Tgt Ion:276 Resp: 12677

Ion Ratio Lower Upper

276 100

277 24.7 22.0 33.0

138 21.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037230.D
 Acq On : 13 Jun 2025 16:35
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

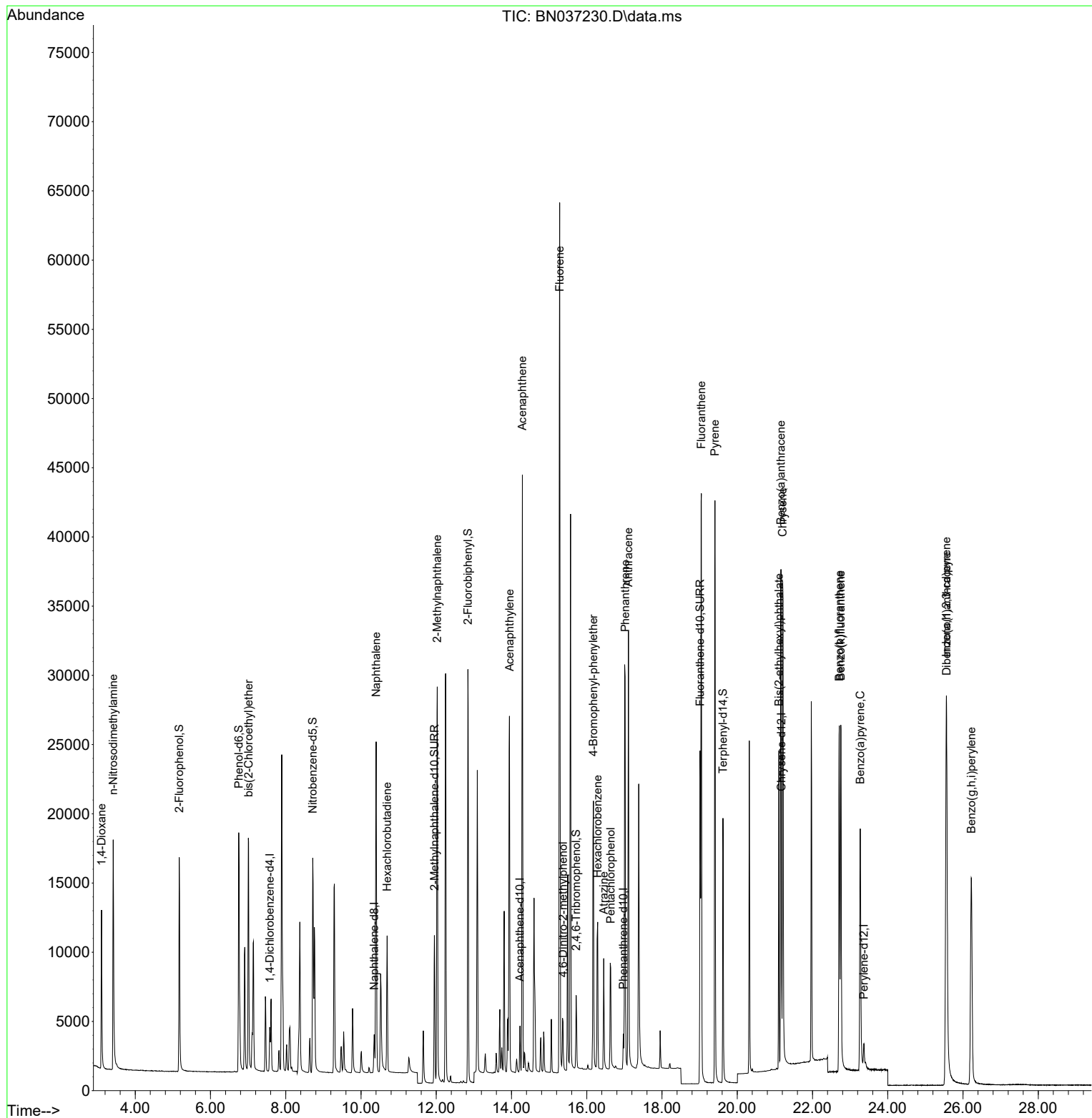
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1362	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3277	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1730	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3218	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2562	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	2434	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	10792	3.226	ng	0.00
5) Phenol-d6	6.752	99	12700	3.602	ng	0.00
8) Nitrobenzene-d5	8.717	82	11592	3.579	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	14468	3.290	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	2530	3.521	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	24600	3.384	ng	0.00
27) Fluoranthene-d10	19.012	212	26844	3.188	ng	0.00
31) Terphenyl-d14	19.621	244	19247	3.323	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	5606	3.000	ng	94
3) n-Nitrosodimethylamine	3.415	42	13425	3.153	ng	97
6) bis(2-Chloroethyl)ether	7.012	93	11592	3.671	ng	94
9) Naphthalene	10.404	128	30442	3.208	ng	95
10) Hexachlorobutadiene	10.693	225	6997	3.031	ng	# 98
12) 2-Methylnaphthalene	12.026	142	19566	3.392	ng	98
16) Acenaphthylene	13.946	152	28536	3.366	ng	99
17) Acenaphthene	14.288	154	18242	3.334	ng	98
18) Fluorene	15.282	166	23723	3.375	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	2836	3.223	ng	# 37
21) 4-Bromophenyl-phenylether	16.177	248	7106	3.389	ng	# 83
22) Hexachlorobenzene	16.289	284	7308	3.006	ng	97
23) Atrazine	16.450	200	6193	3.311	ng	88
24) Pentachlorophenol	16.636	266	4179	3.508	ng	98
25) Phenanthrene	17.021	178	34176	3.349	ng	99
26) Anthracene	17.108	178	32366	3.464	ng	99
28) Fluoranthene	19.045	202	38876	3.254	ng	98
30) Pyrene	19.407	202	38772	3.219	ng	100
32) Benzo(a)anthracene	21.162	228	30893	3.571	ng	96
33) Chrysene	21.207	228	33474	3.106	ng	97
34) Bis(2-ethylhexyl)phtha...	21.108	149	19300	2.996	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.556	276	34219	3.486	ng	# 94
37) Benzo(b)fluoranthene	22.711	252	30687	3.447	ng	# 85
38) Benzo(k)fluoranthene	22.752	252	33172	3.248	ng	# 85
39) Benzo(a)pyrene	23.269	252	26918	3.361	ng	# 79
40) Dibenzo(a,h)anthracene	25.564	278	27744	3.751	ng	# 81
41) Benzo(g,h,i)perylene	26.219	276	30489	3.350	ng	95

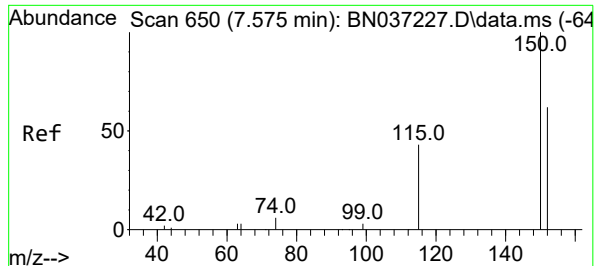
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037230.D
Acq On : 13 Jun 2025 16:35
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

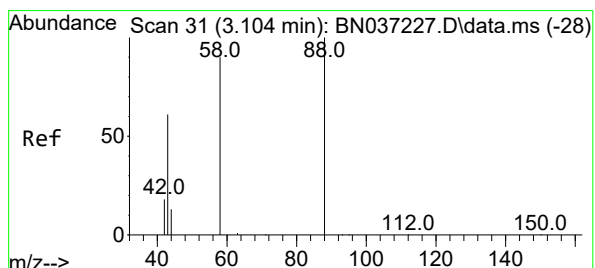
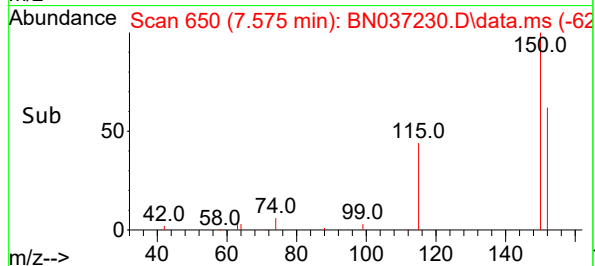
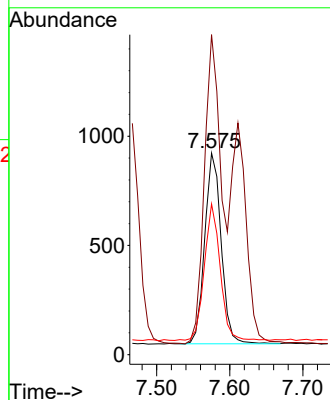
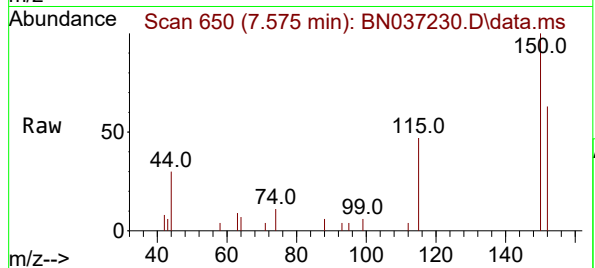




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

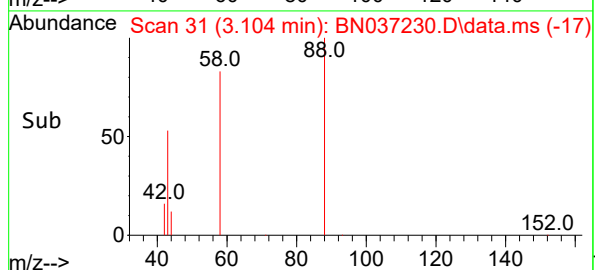
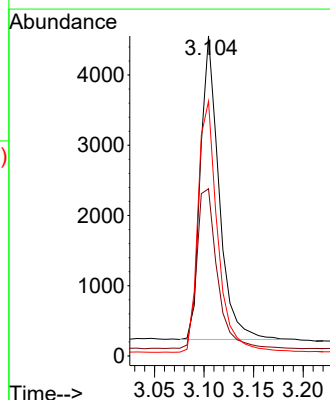
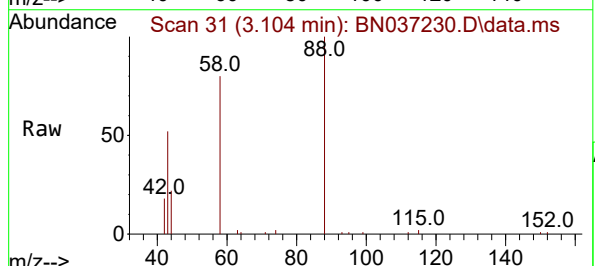
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

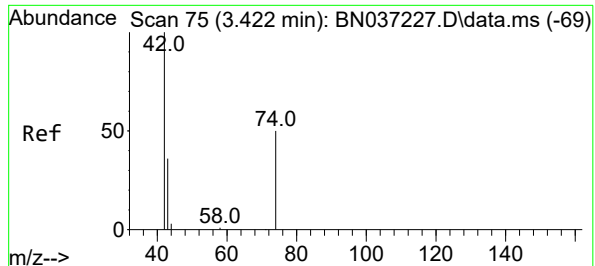
Tgt Ion:152 Resp: 1362
Ion Ratio Lower Upper
152 100
150 158.7 125.2 187.8
115 74.8 58.4 87.6



#2
1,4-Dioxane
Concen: 3.000 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 88 Resp: 5606
Ion Ratio Lower Upper
88 100
43 58.5 52.6 79.0
58 88.1 73.5 110.3

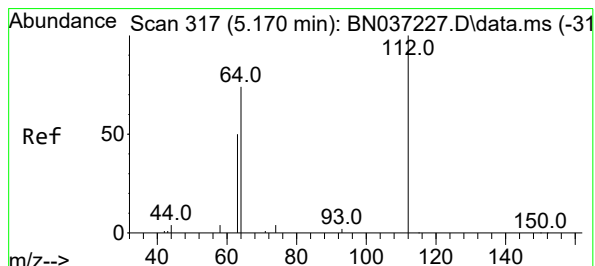
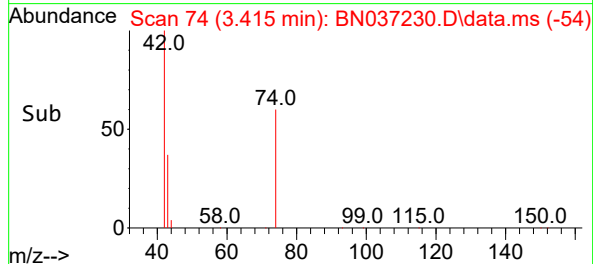
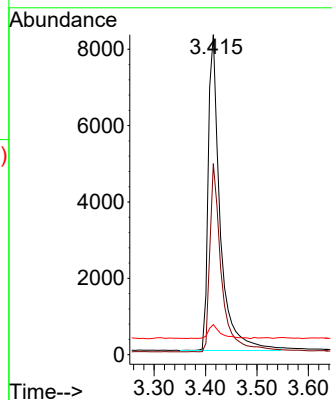
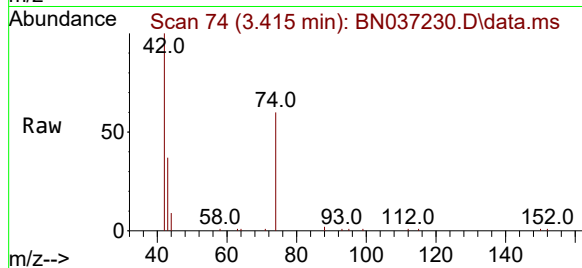




#3
n-Nitrosodimethylamine
Concen: 3.153 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

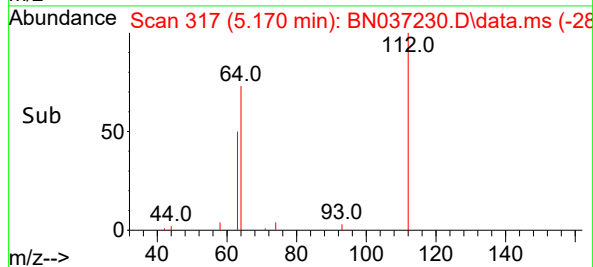
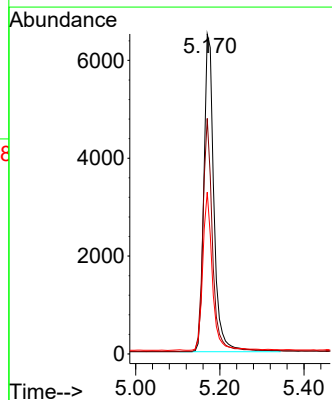
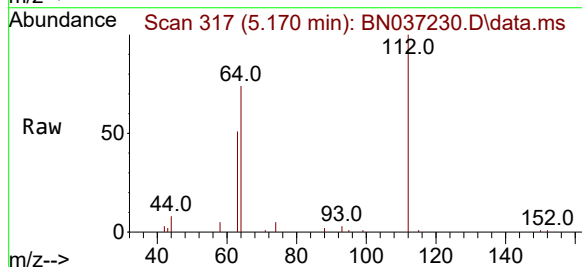
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

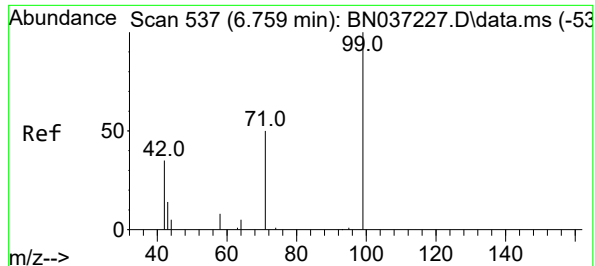
Tgt Ion: 42 Resp: 13425
Ion Ratio Lower Upper
42 100
74 58.0 44.6 66.8
44 4.7 3.5 5.3



#4
2-Fluorophenol
Concen: 3.226 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 112 Resp: 10792
Ion Ratio Lower Upper
112 100
64 69.7 57.2 85.8
63 47.3 39.8 59.6

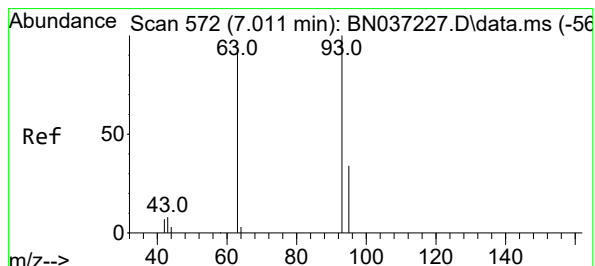
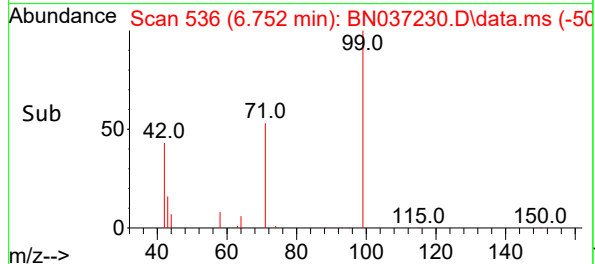
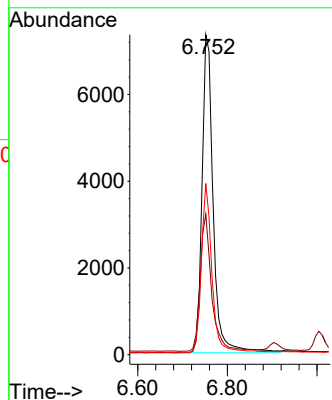
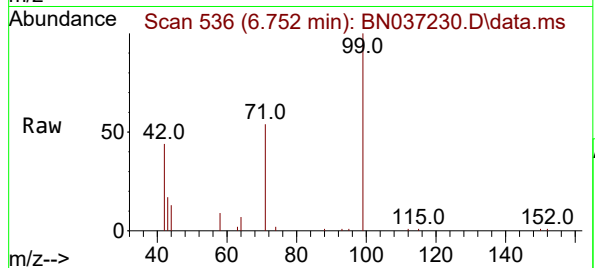




#5
Phenol-d6
Concen: 3.602 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

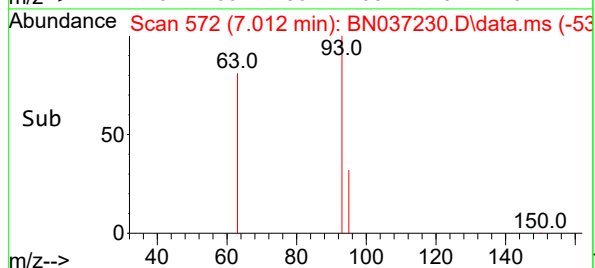
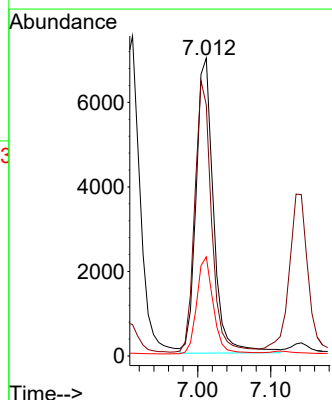
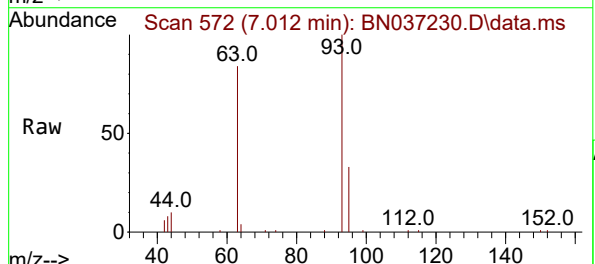
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

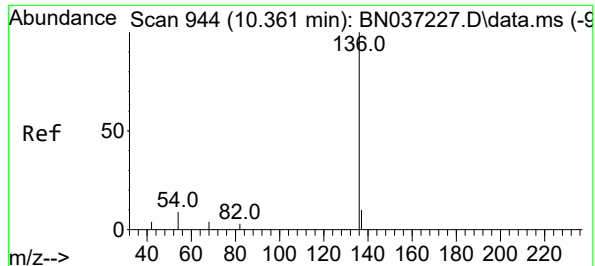
Tgt Ion: 99 Resp: 12700
Ion Ratio Lower Upper
99 100
42 44.5 36.2 54.4
71 51.2 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 3.671 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion: 93 Resp: 11592
Ion Ratio Lower Upper
93 100
63 88.1 75.2 112.8
95 31.1 28.3 42.5

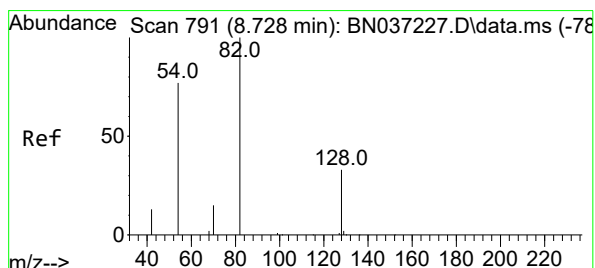
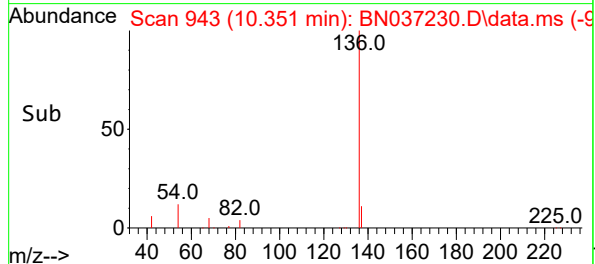
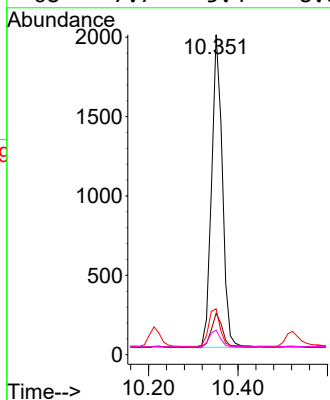
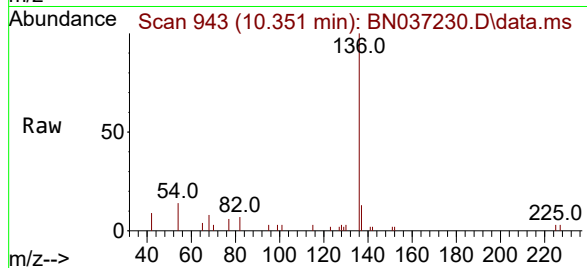




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

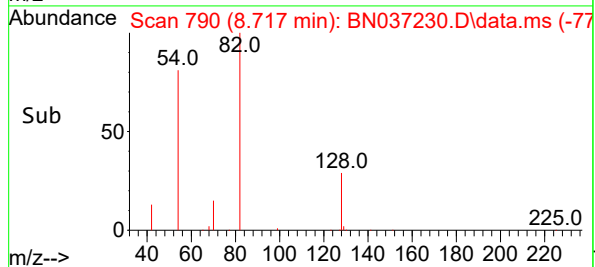
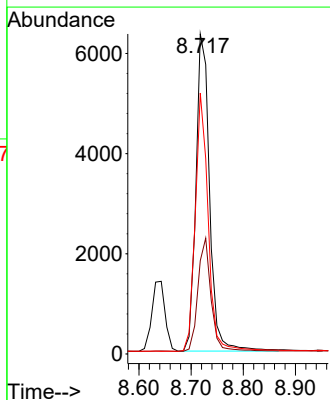
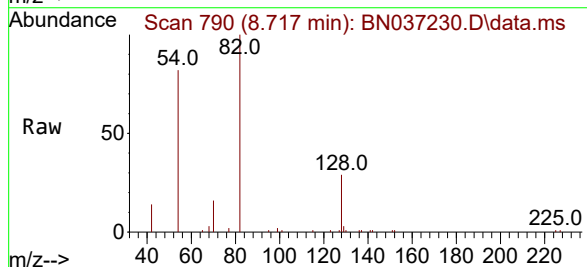
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

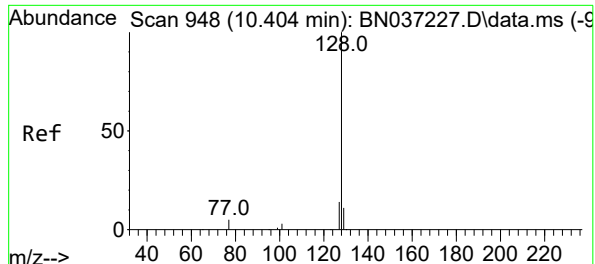
Tgt Ion:	136	Resp:	3277
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.6	15.8
54	14.4	9.2	13.8#
68	7.7	5.4	8.0



#8
Nitrobenzene-d5
Concen: 3.579 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.010 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:	82	Resp:	11592
Ion	Ratio	Lower	Upper
82	100		
128	29.1	31.2	46.8#
54	81.6	63.3	94.9

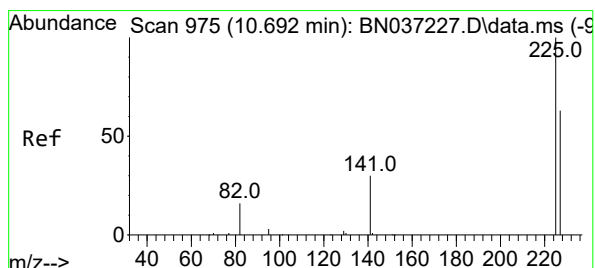
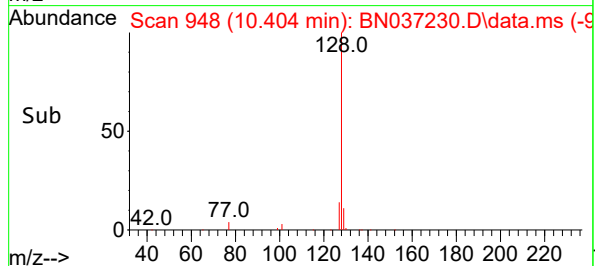
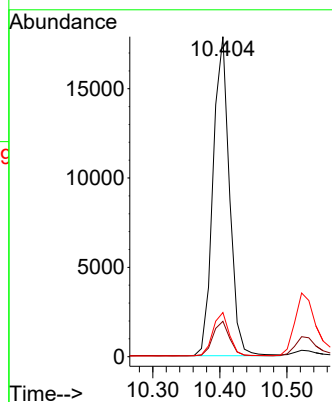
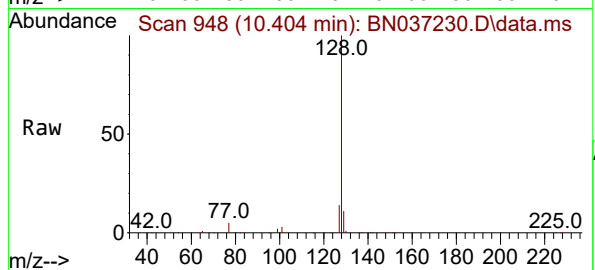




#9
Naphthalene
Concen: 3.208 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

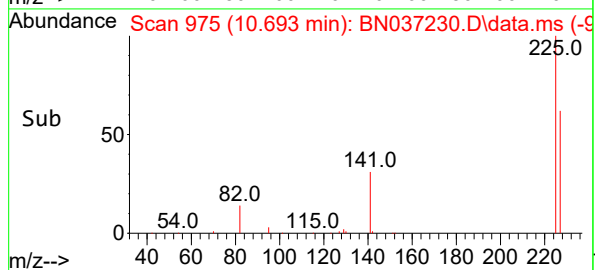
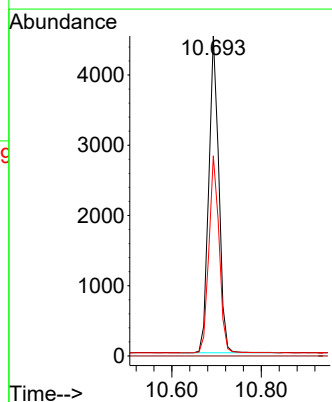
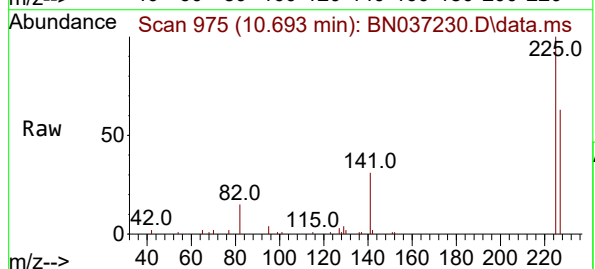
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

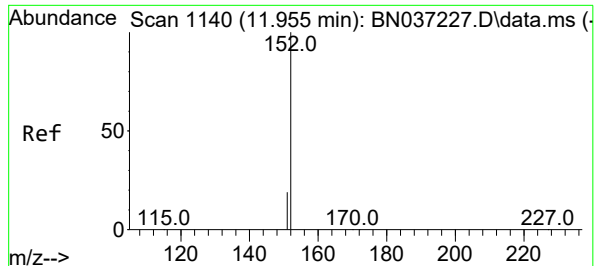
Tgt Ion:128 Resp: 30442
Ion Ratio Lower Upper
128 100
129 11.1 10.7 16.1
127 13.8 12.6 19.0



#10
Hexachlorobutadiene
Concen: 3.031 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:225 Resp: 6997
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.2 49.2 73.8

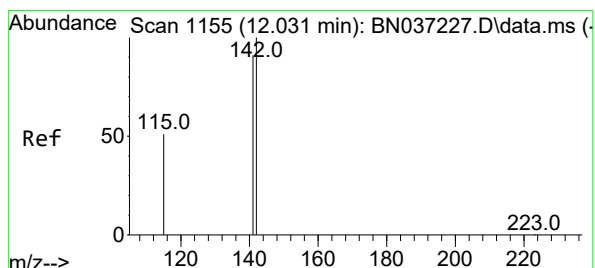
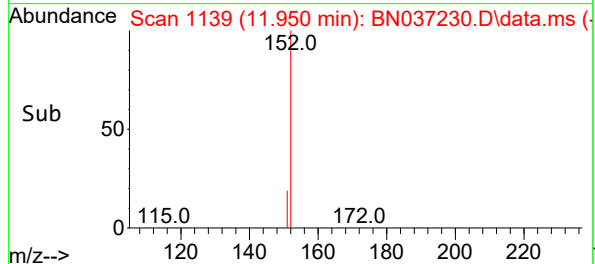
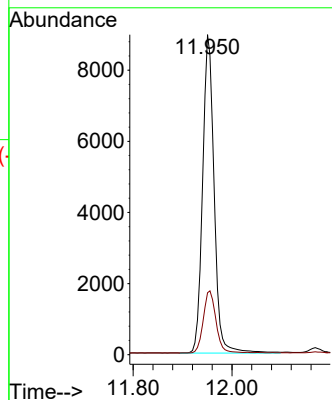
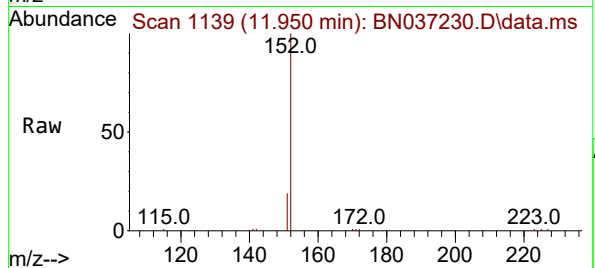




#11
2-Methylnaphthalene-d10
Concen: 3.290 ng
RT: 11.950 min Scan# 1140
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

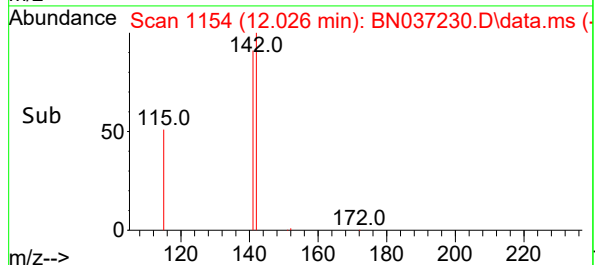
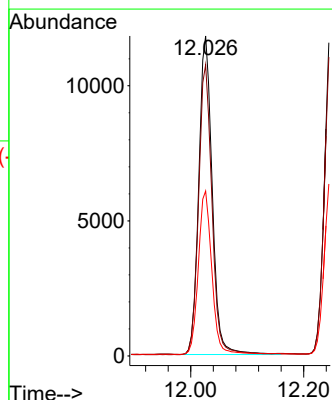
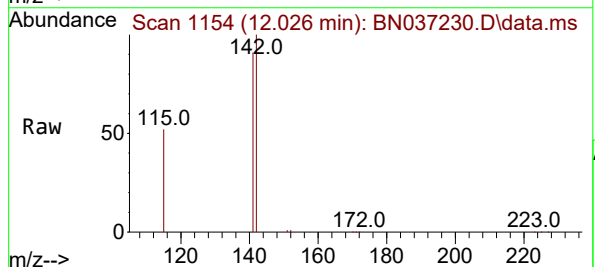
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

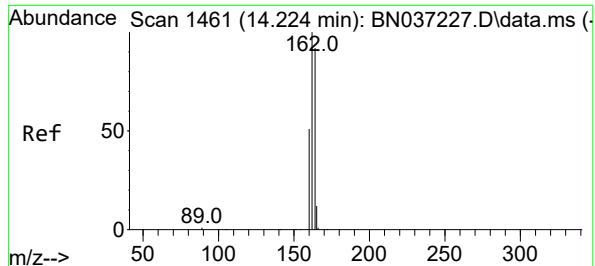
Tgt Ion:152 Resp: 14468
Ion Ratio Lower Upper
152 100
151 21.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 3.392 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:142 Resp: 19566
Ion Ratio Lower Upper
142 100
141 91.0 73.0 109.6
115 51.5 43.3 64.9

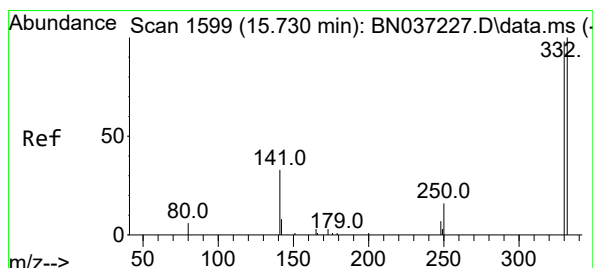
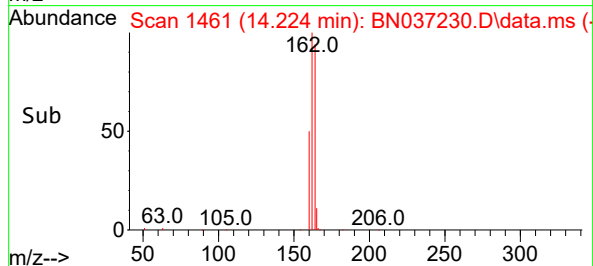
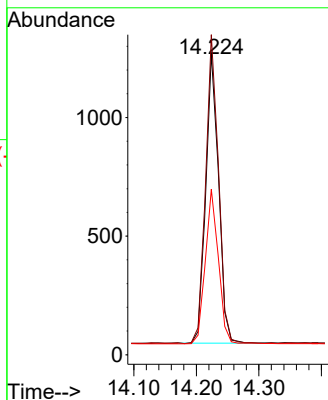
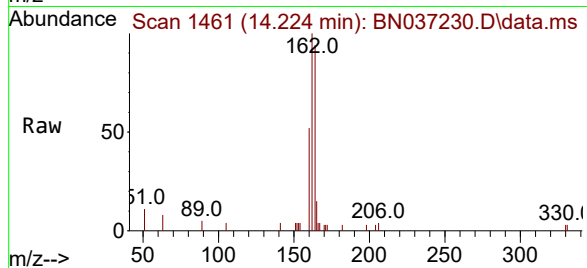




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

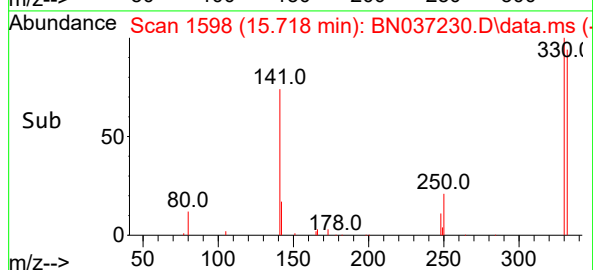
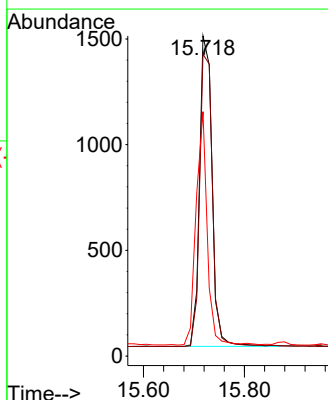
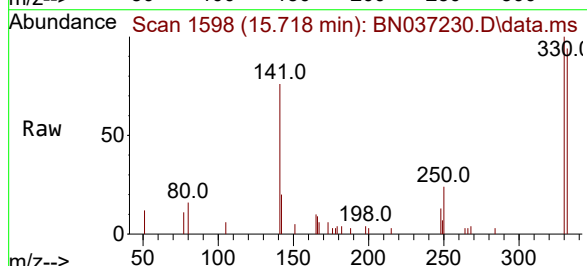
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

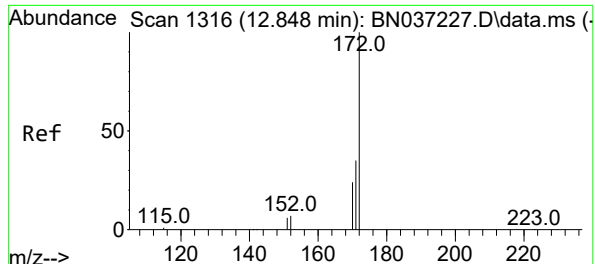
Tgt Ion:164 Resp: 1730
Ion Ratio Lower Upper
164 100
162 106.3 86.7 130.1
160 55.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 3.521 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:330 Resp: 2530
Ion Ratio Lower Upper
330 100
332 96.8 74.9 112.3
141 67.2 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 3.384 ng

RT: 12.843 min Scan# 1315

Delta R.T. -0.005 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

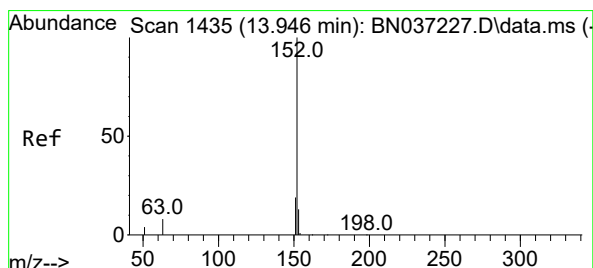
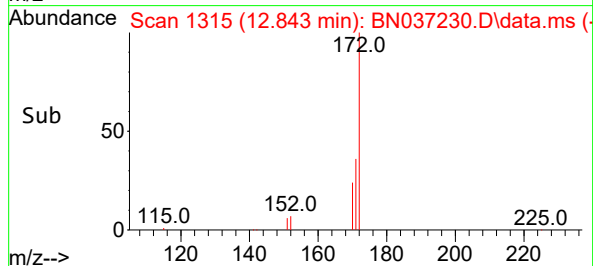
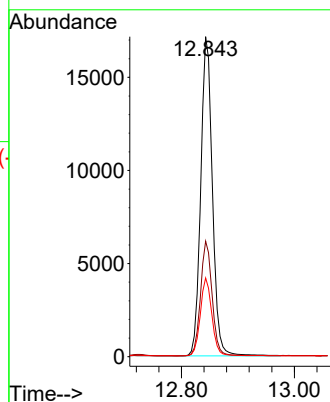
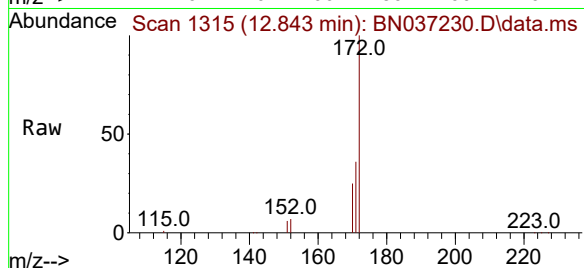
Tgt Ion:172 Resp: 24600

Ion Ratio Lower Upper

172 100

171 36.1 29.8 44.8

170 24.6 21.1 31.7



#16

Acenaphthylene

Concen: 3.366 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

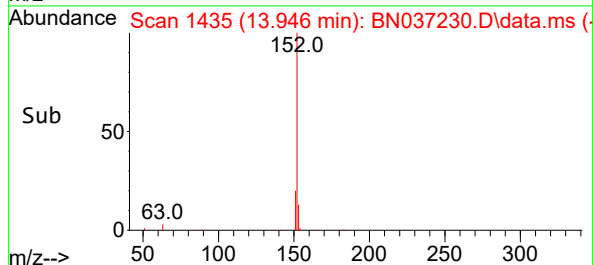
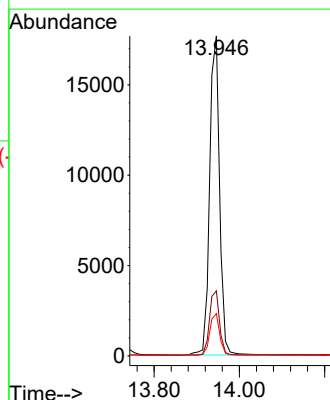
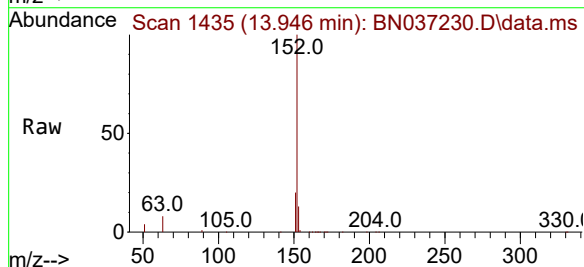
Tgt Ion:152 Resp: 28536

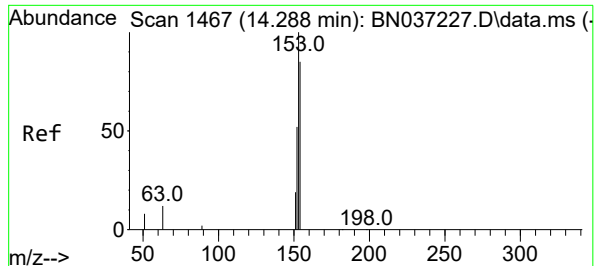
Ion Ratio Lower Upper

152 100

151 20.3 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 3.334 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

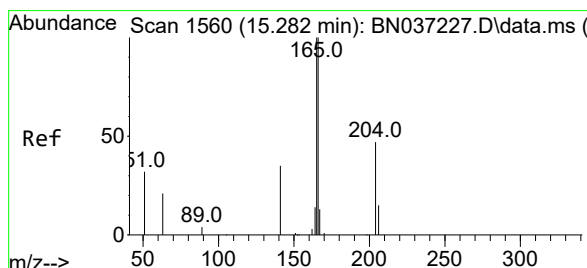
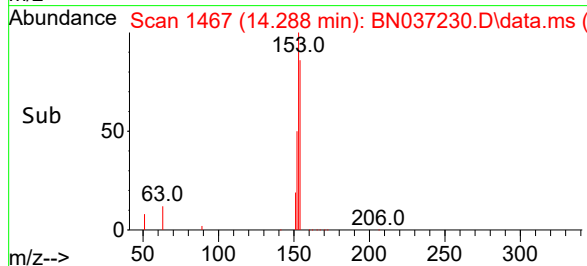
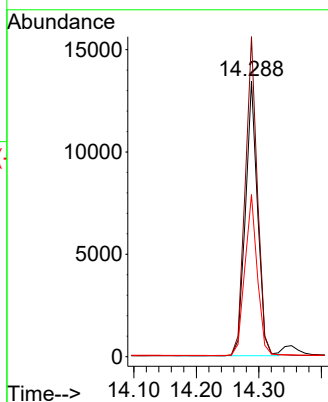
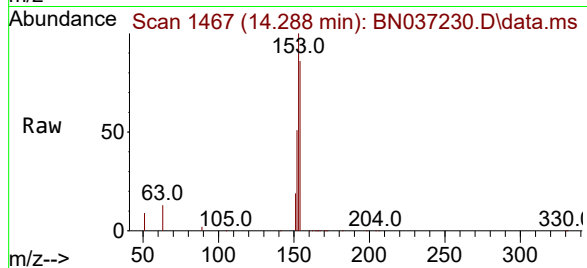
Tgt Ion:154 Resp: 18242

Ion Ratio Lower Upper

154 100

153 116.2 94.6 141.8

152 60.0 49.6 74.4



#18

Fluorene

Concen: 3.375 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

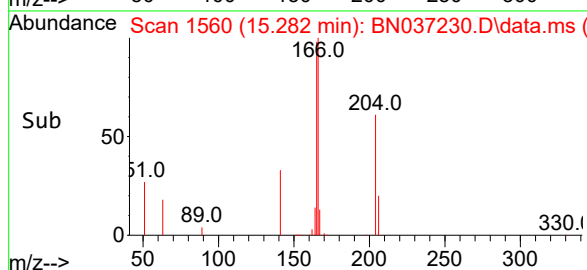
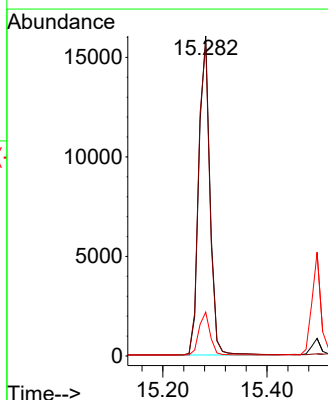
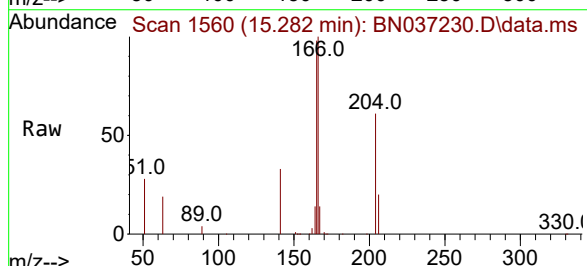
Tgt Ion:166 Resp: 23723

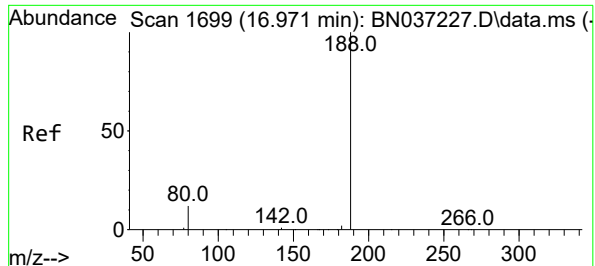
Ion Ratio Lower Upper

166 100

165 99.9 79.8 119.6

167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

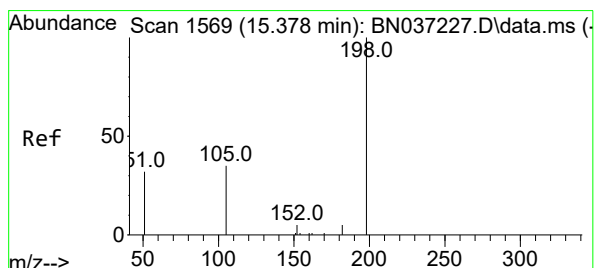
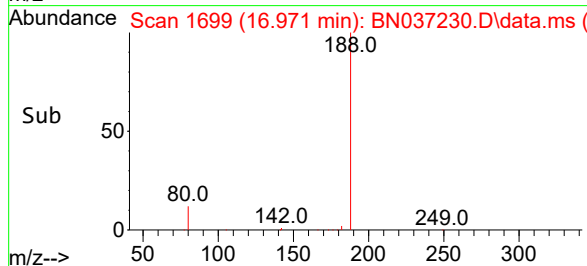
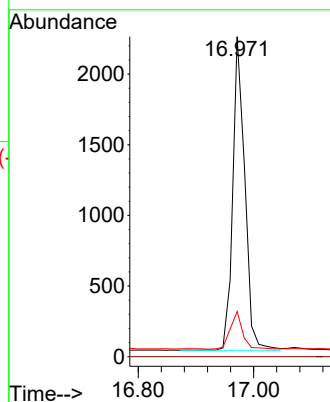
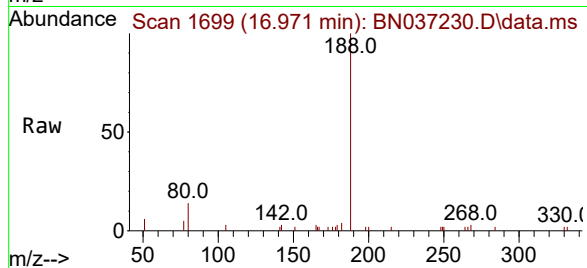
Tgt Ion:188 Resp: 3218

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.223 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

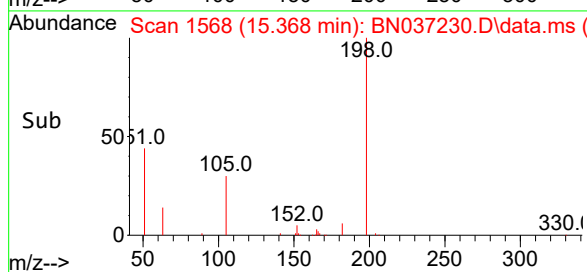
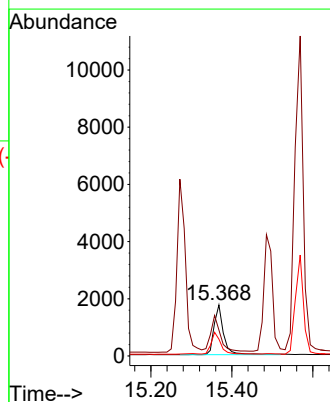
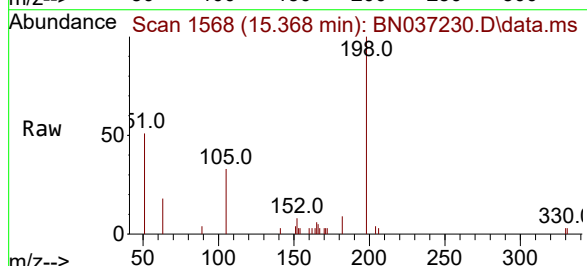
Tgt Ion:198 Resp: 2836

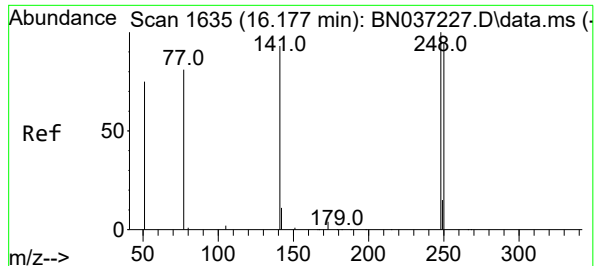
Ion Ratio Lower Upper

198 100

51 50.6 111.2 166.8#

105 32.9 54.0 81.0#

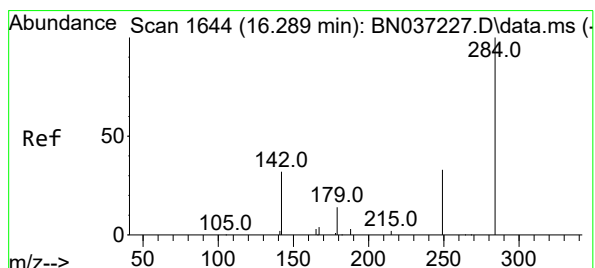
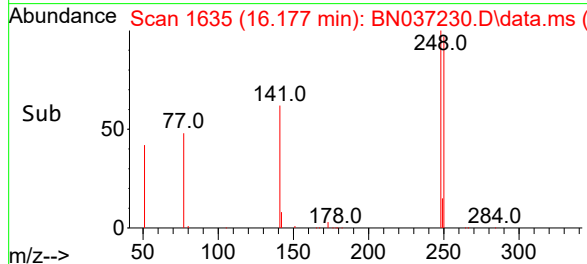
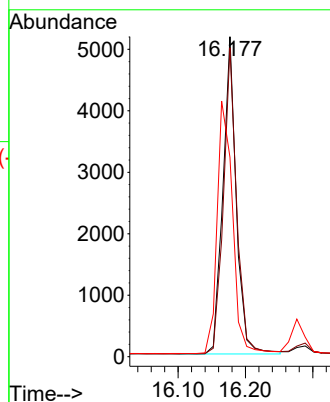
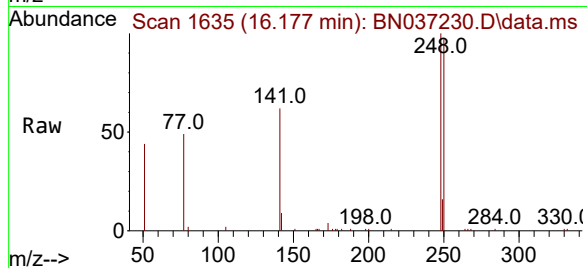




#21
4-Bromophenyl-phenylether
Concen: 3.389 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

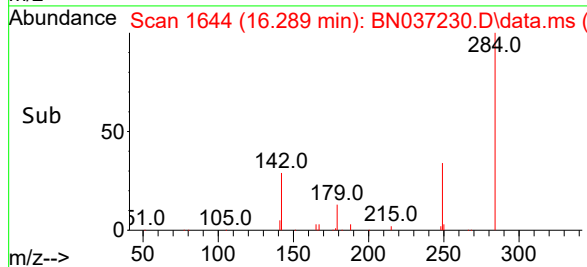
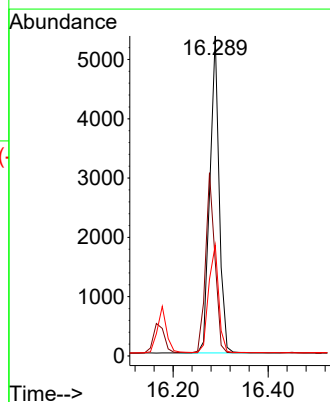
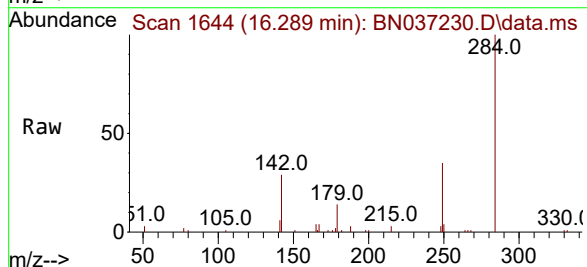
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

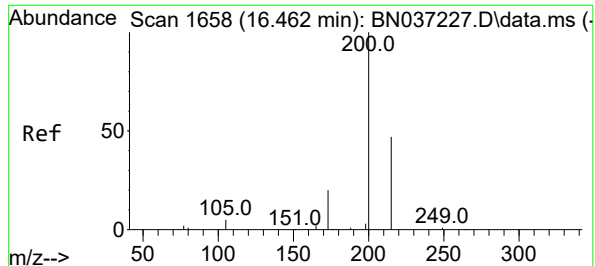
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.6	76.8	115.2
141	62.3	75.6	113.4#



#22
Hexachlorobenzene
Concen: 3.006 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion	Ratio	Lower	Upper
284	100		
142	57.3	43.8	65.6
249	36.7	28.4	42.6

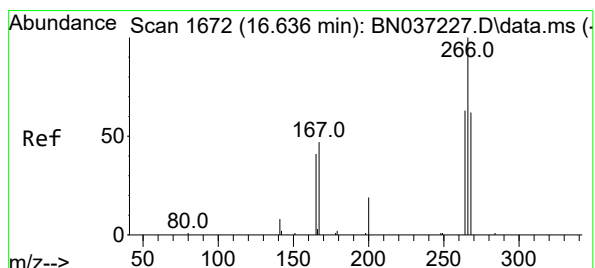
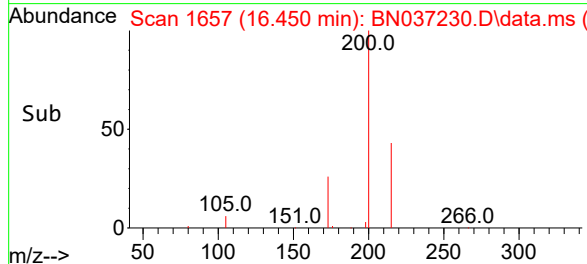
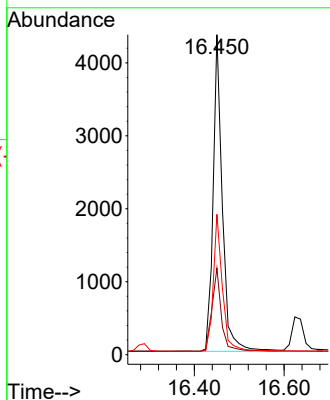
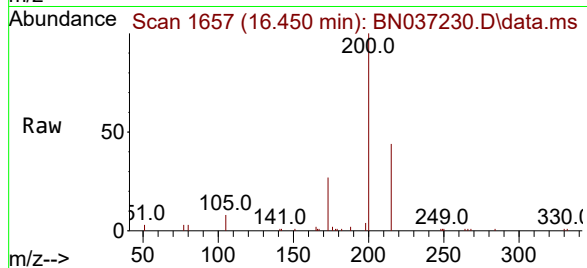




#23
Atrazine
Concen: 3.311 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

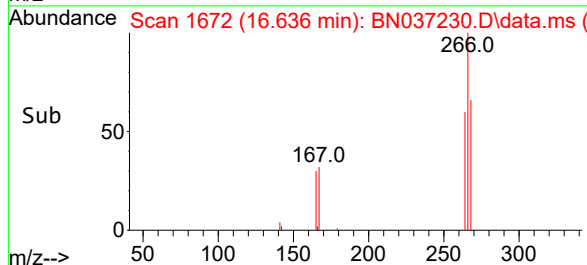
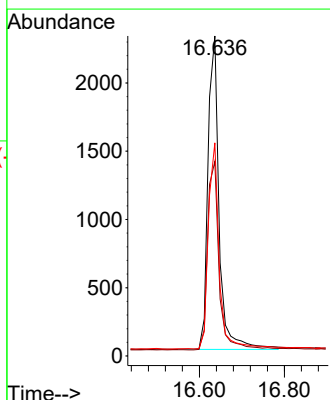
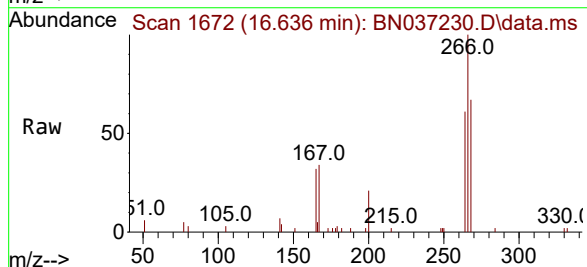
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

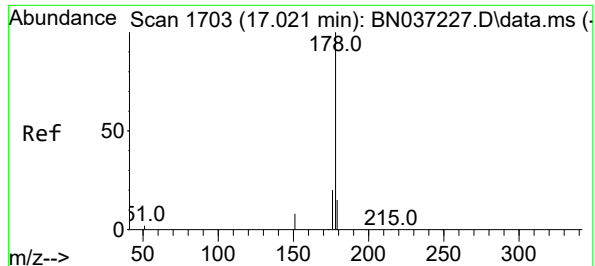
Tgt Ion:200 Resp: 6193
Ion Ratio Lower Upper
200 100
173 27.0 25.1 37.7
215 43.8 43.7 65.5



#24
Pentachlorophenol
Concen: 3.508 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:266 Resp: 4179
Ion Ratio Lower Upper
266 100
264 62.2 49.2 73.8
268 64.6 53.4 80.2

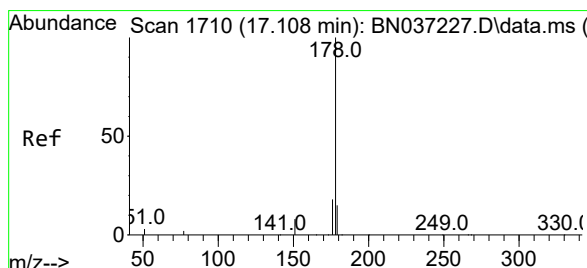
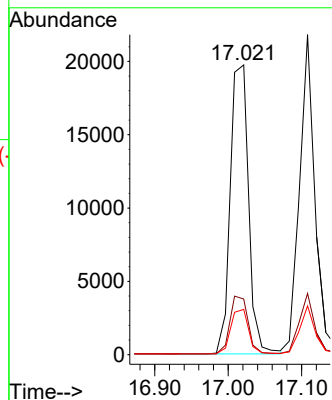
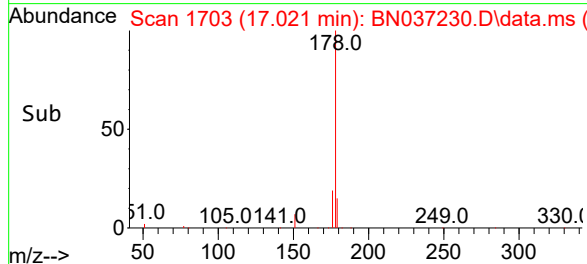
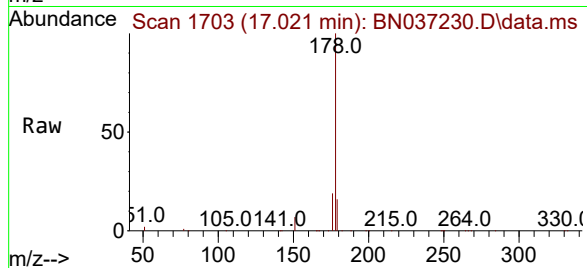




#25
Phenanthrene
Concen: 3.349 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

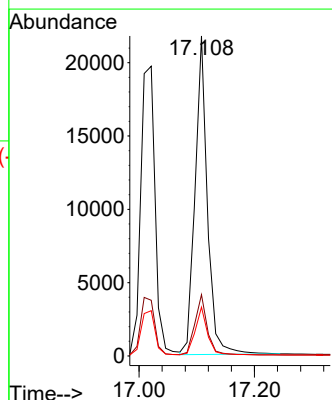
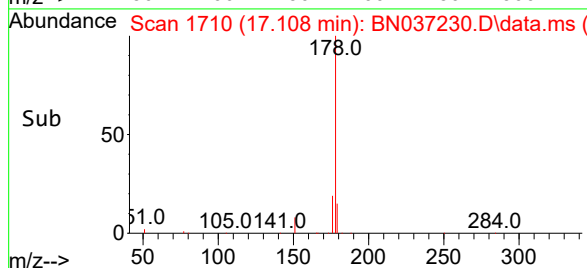
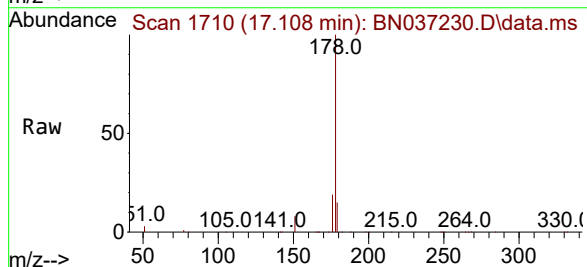
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

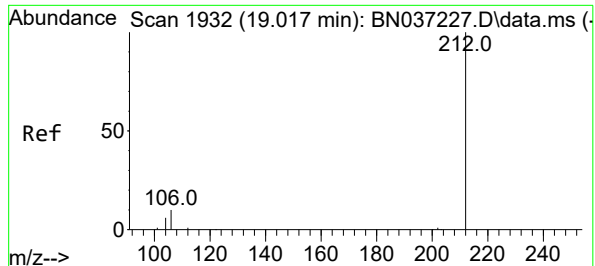
Tgt Ion:178 Resp: 34176
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 15.1 12.6 18.8



#26
Anthracene
Concen: 3.464 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037230.D
Acq: 13 Jun 2025 16:35

Tgt Ion:178 Resp: 32366
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.188 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

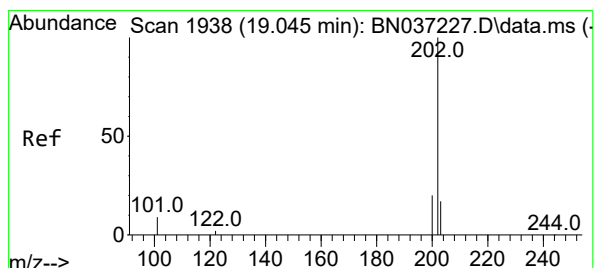
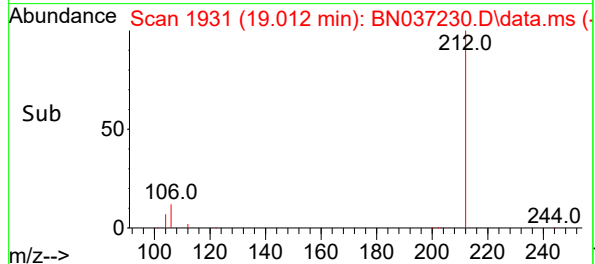
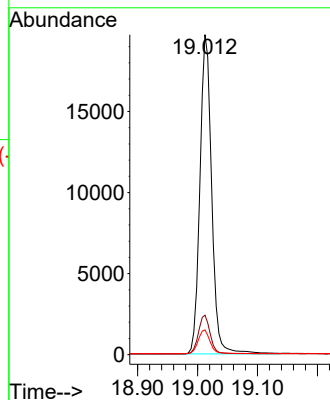
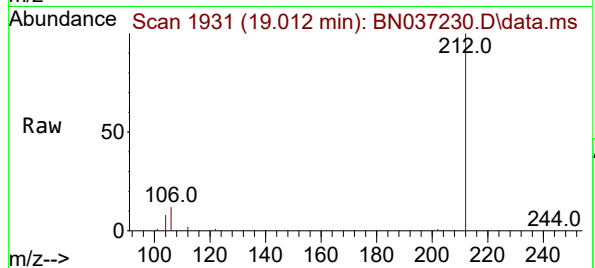
Tgt Ion:212 Resp: 26844

Ion Ratio Lower Upper

212 100

106 12.1 9.3 13.9

104 7.6 5.7 8.5



#28

Fluoranthene

Concen: 3.254 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

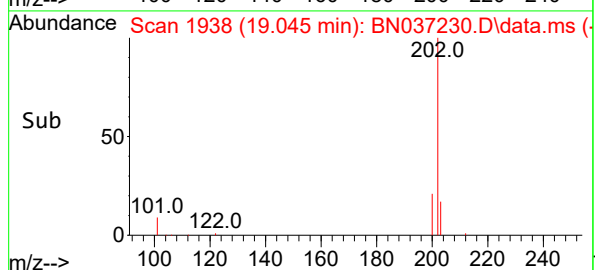
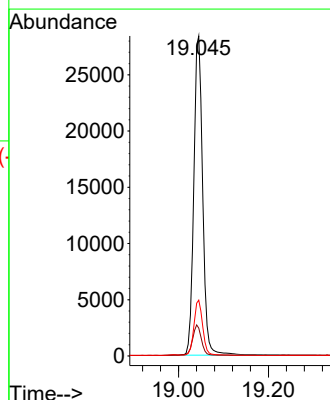
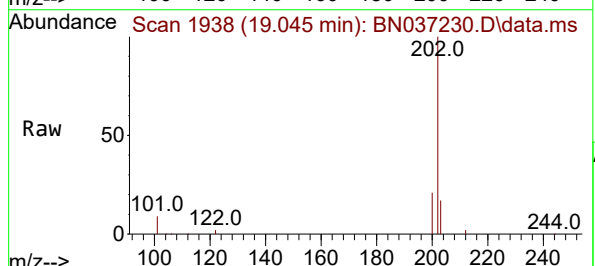
Tgt Ion:202 Resp: 38876

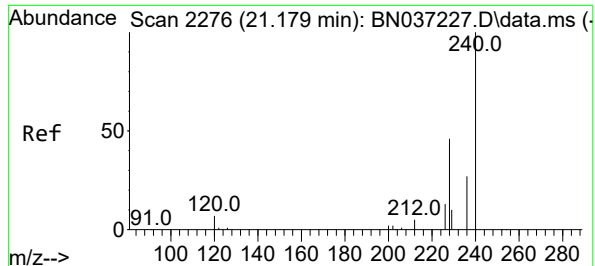
Ion Ratio Lower Upper

202 100

101 9.7 7.1 10.7

203 17.1 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

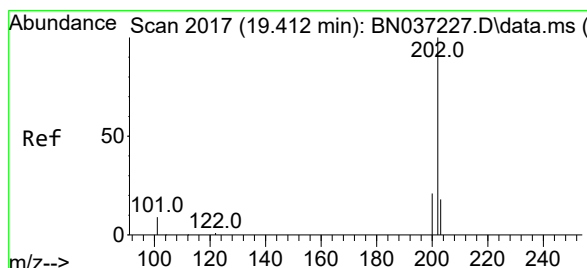
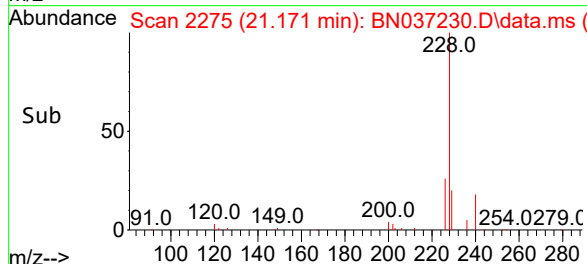
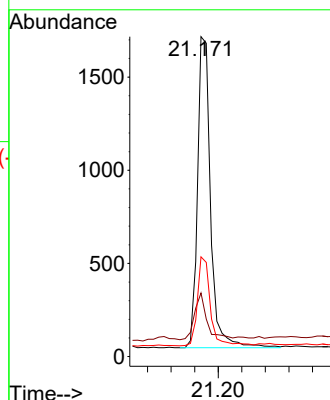
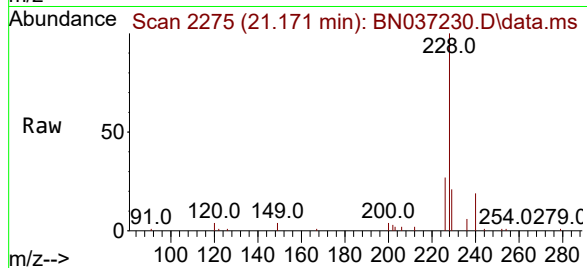
Tgt Ion:240 Resp: 2562

Ion Ratio Lower Upper

240 100

120 19.9 11.3 16.9#

236 31.2 24.4 36.6



#30

Pyrene

Concen: 3.219 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

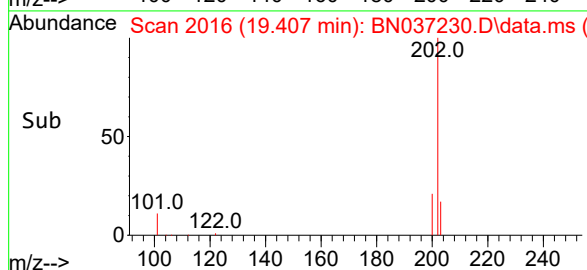
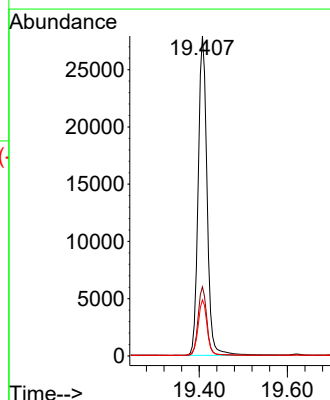
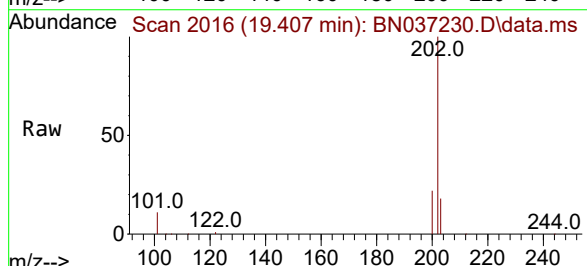
Tgt Ion:202 Resp: 38772

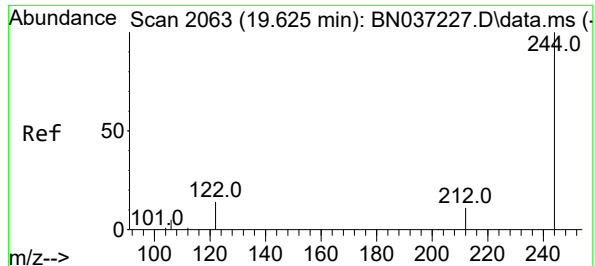
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 3.323 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

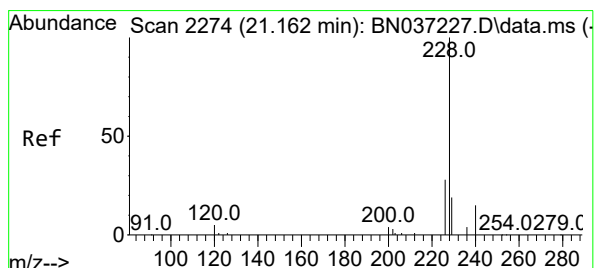
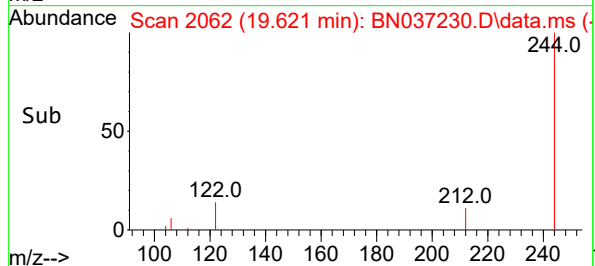
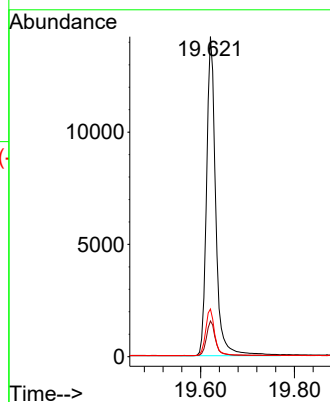
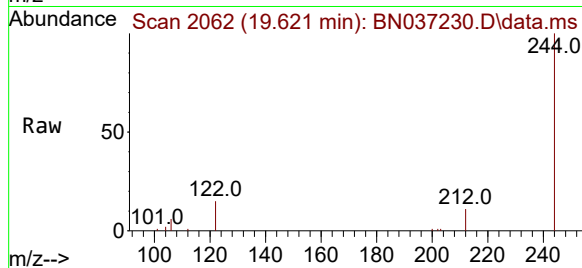
Tgt Ion:244 Resp: 19247

Ion Ratio Lower Upper

244 100

212 11.2 12.2 18.2#

122 14.9 14.3 21.5



#32

Benzo(a)anthracene

Concen: 3.571 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

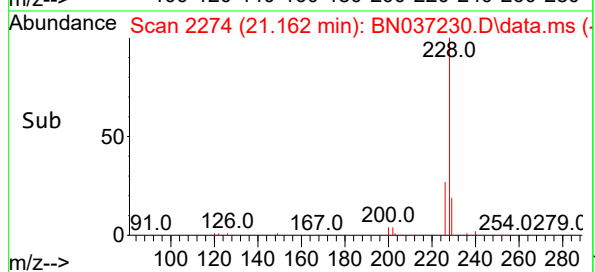
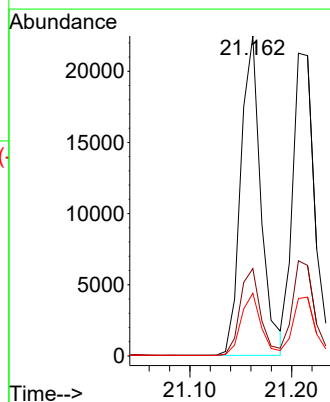
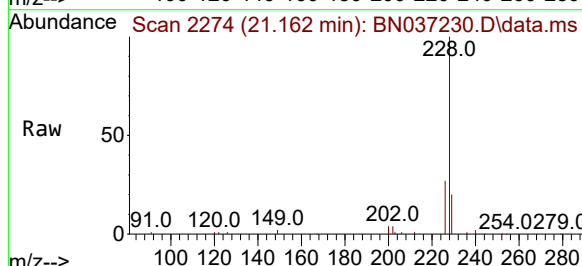
Tgt Ion:228 Resp: 30893

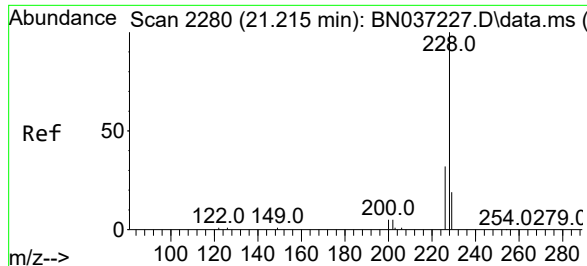
Ion Ratio Lower Upper

228 100

226 27.3 23.8 35.8

229 19.6 17.0 25.4





#33

Chrysene

Concen: 3.106 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

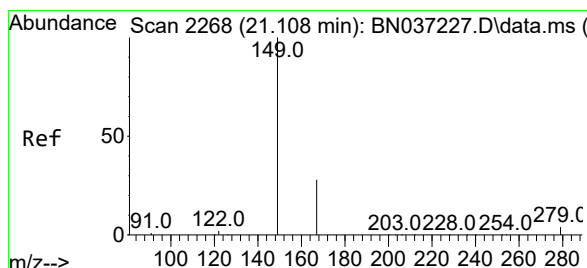
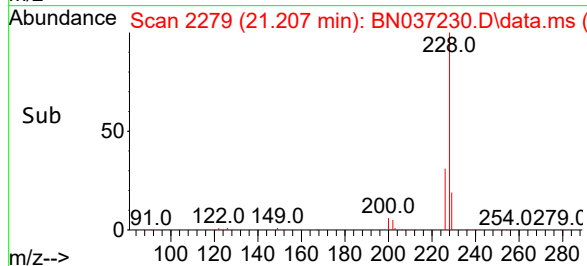
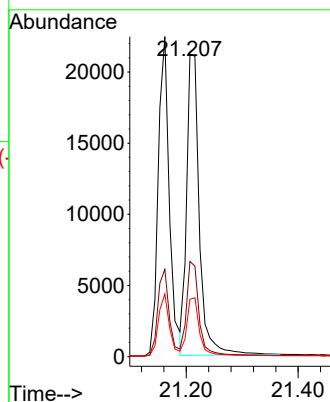
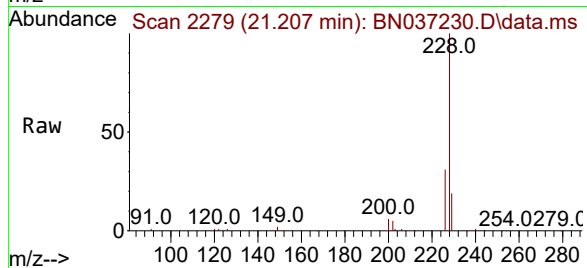
Tgt Ion:228 Resp: 33474

Ion Ratio Lower Upper

228 100

226 31.4 25.8 38.6

229 19.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.996 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

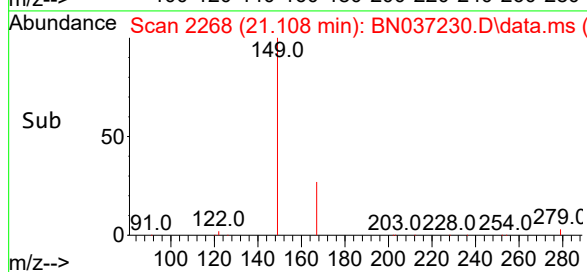
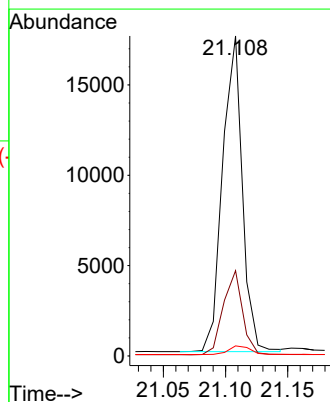
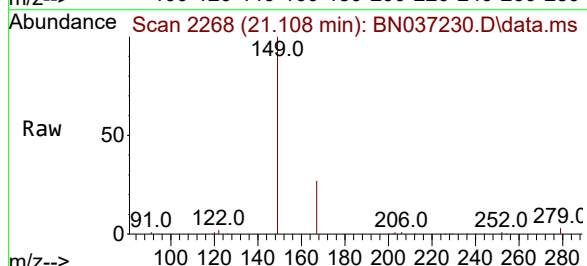
Tgt Ion:149 Resp: 19300

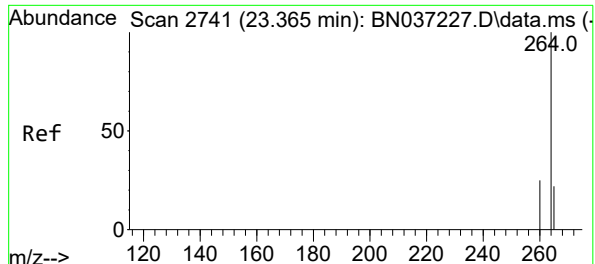
Ion Ratio Lower Upper

149 100

167 26.1 21.3 31.9

279 3.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

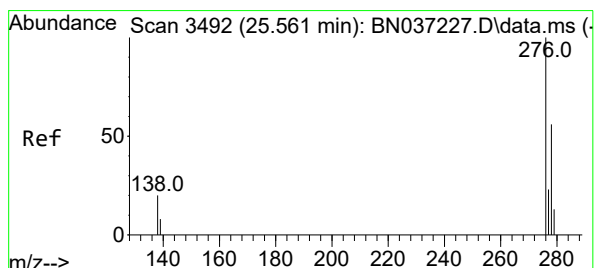
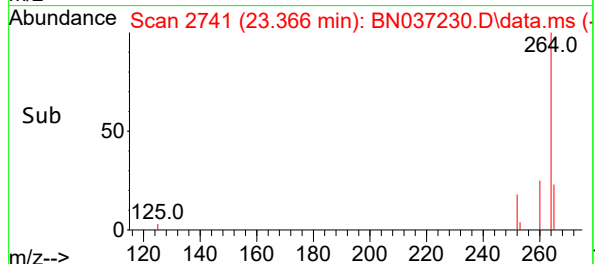
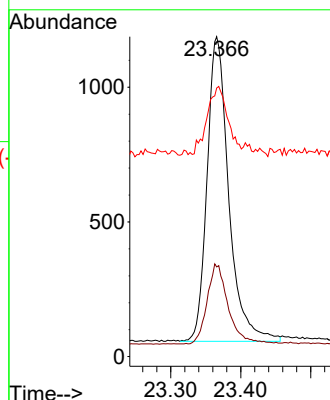
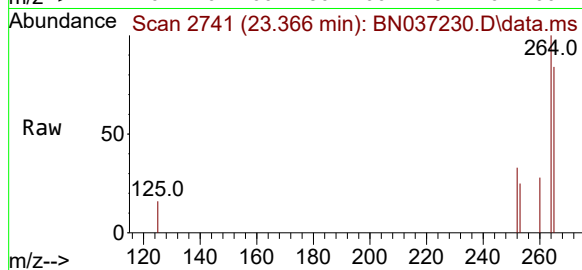
Tgt Ion:264 Resp: 2434

Ion Ratio Lower Upper

264 100

260 28.0 22.8 34.2

265 83.9 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.486 ng

RT: 25.556 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

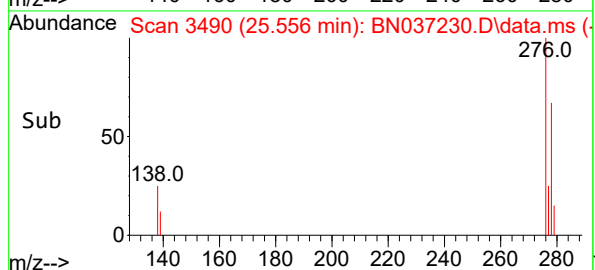
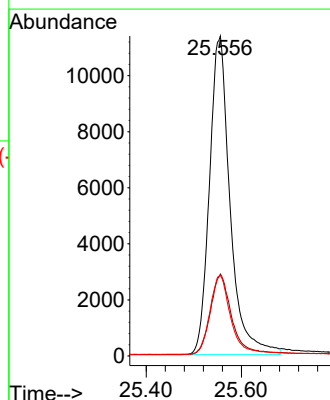
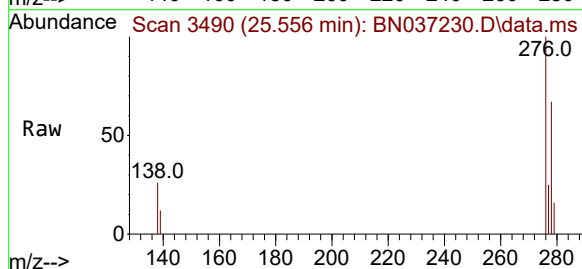
Tgt Ion:276 Resp: 34219

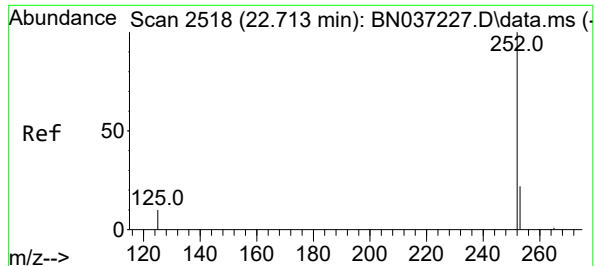
Ion Ratio Lower Upper

276 100

138 25.9 16.8 25.2#

277 25.3 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.447 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

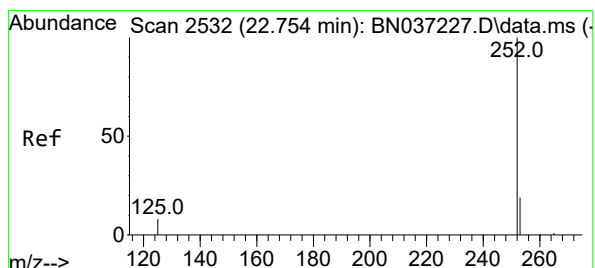
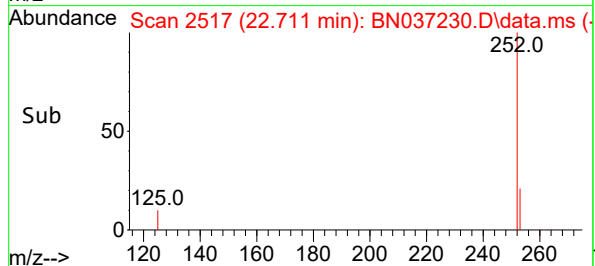
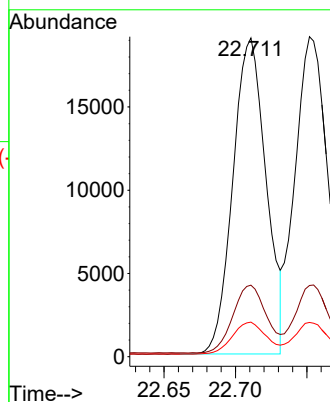
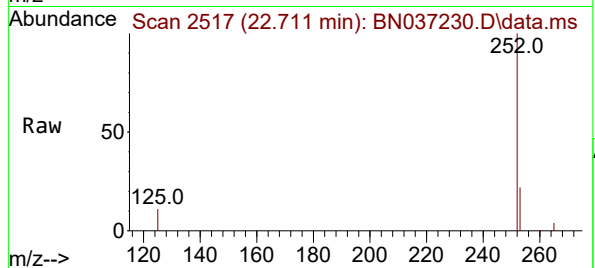
Tgt Ion:252 Resp: 30687

Ion Ratio Lower Upper

252 100

253 22.5 24.9 37.3#

125 10.8 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 3.248 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

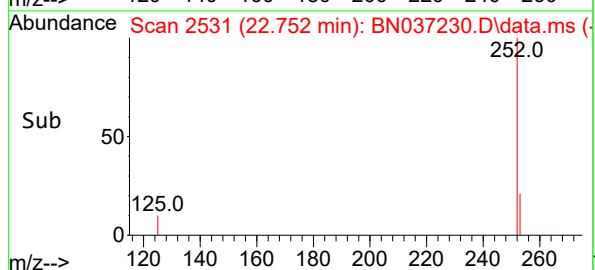
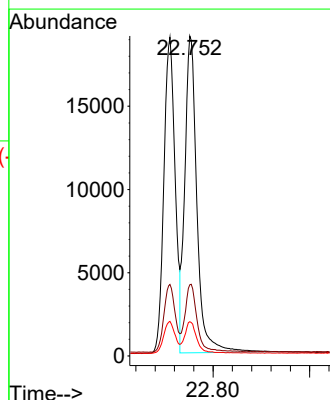
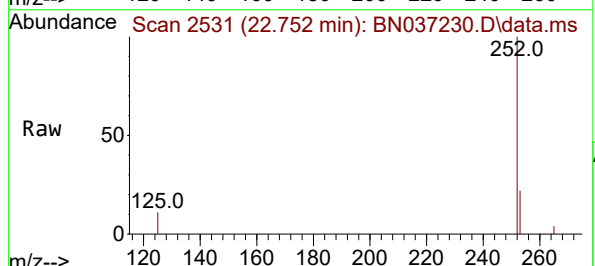
Tgt Ion:252 Resp: 33172

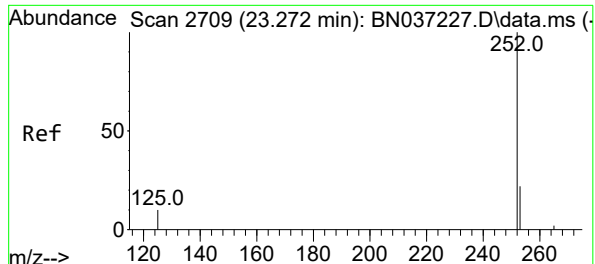
Ion Ratio Lower Upper

252 100

253 22.2 24.6 37.0#

125 10.7 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 3.361 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037230.D

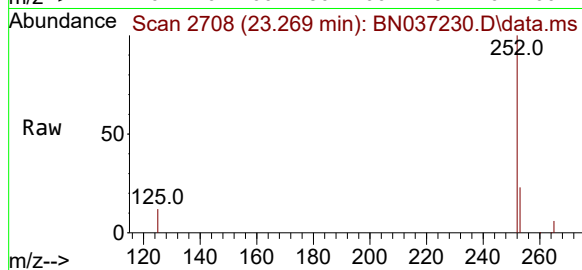
Acq: 13 Jun 2025 16:35

Instrument :

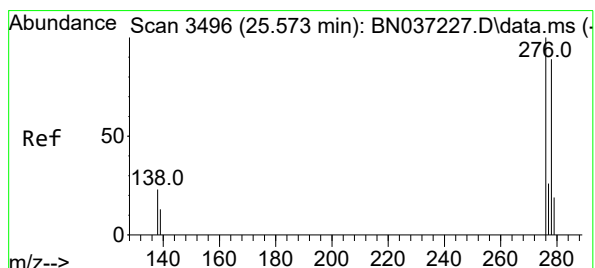
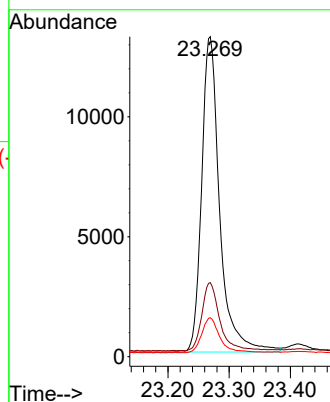
BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:	252	Resp:	26918
Ion Ratio	Lower	Upper	
252	100		
253	23.2	29.4	44.2#
125	12.2	16.2	24.2#



#40

Dibenzo(a,h)anthracene

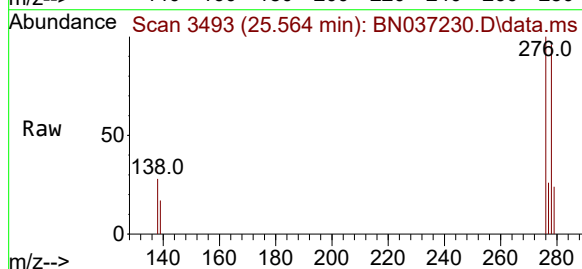
Concen: 3.751 ng

RT: 25.564 min Scan# 3493

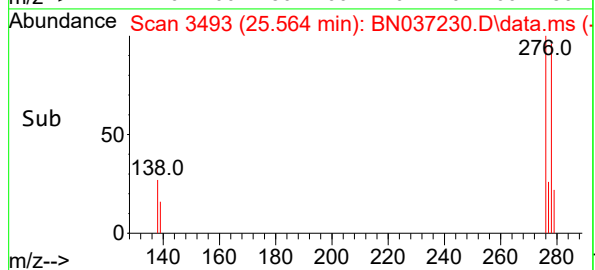
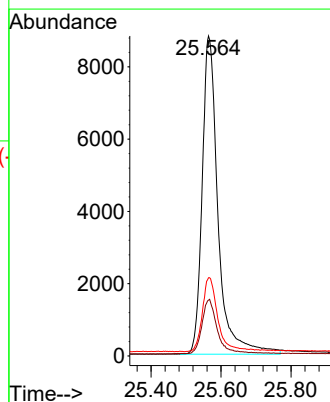
Delta R.T. -0.009 min

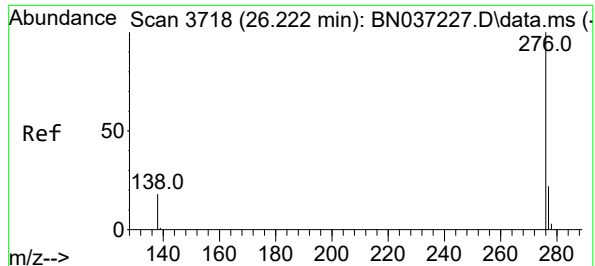
Lab File: BN037230.D

Acq: 13 Jun 2025 16:35



Tgt Ion:	278	Resp:	27744
Ion Ratio	Lower	Upper	
278	100		
139	17.4	17.8	26.6#
279	24.5	31.3	46.9#





#41

Benzo(g,h,i)perylene

Concen: 3.350 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037230.D

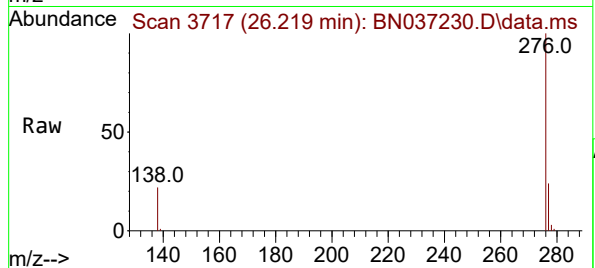
Acq: 13 Jun 2025 16:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



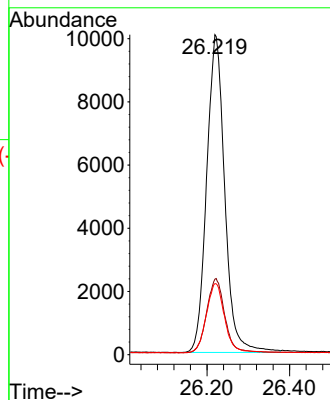
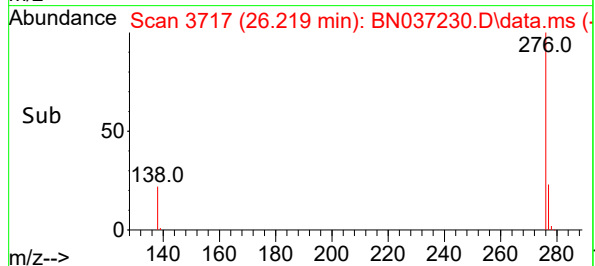
Tgt Ion:276 Resp: 30489

Ion Ratio Lower Upper

276 100

277 23.6 22.0 33.0

138 22.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037231.D
 Acq On : 13 Jun 2025 17:11
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

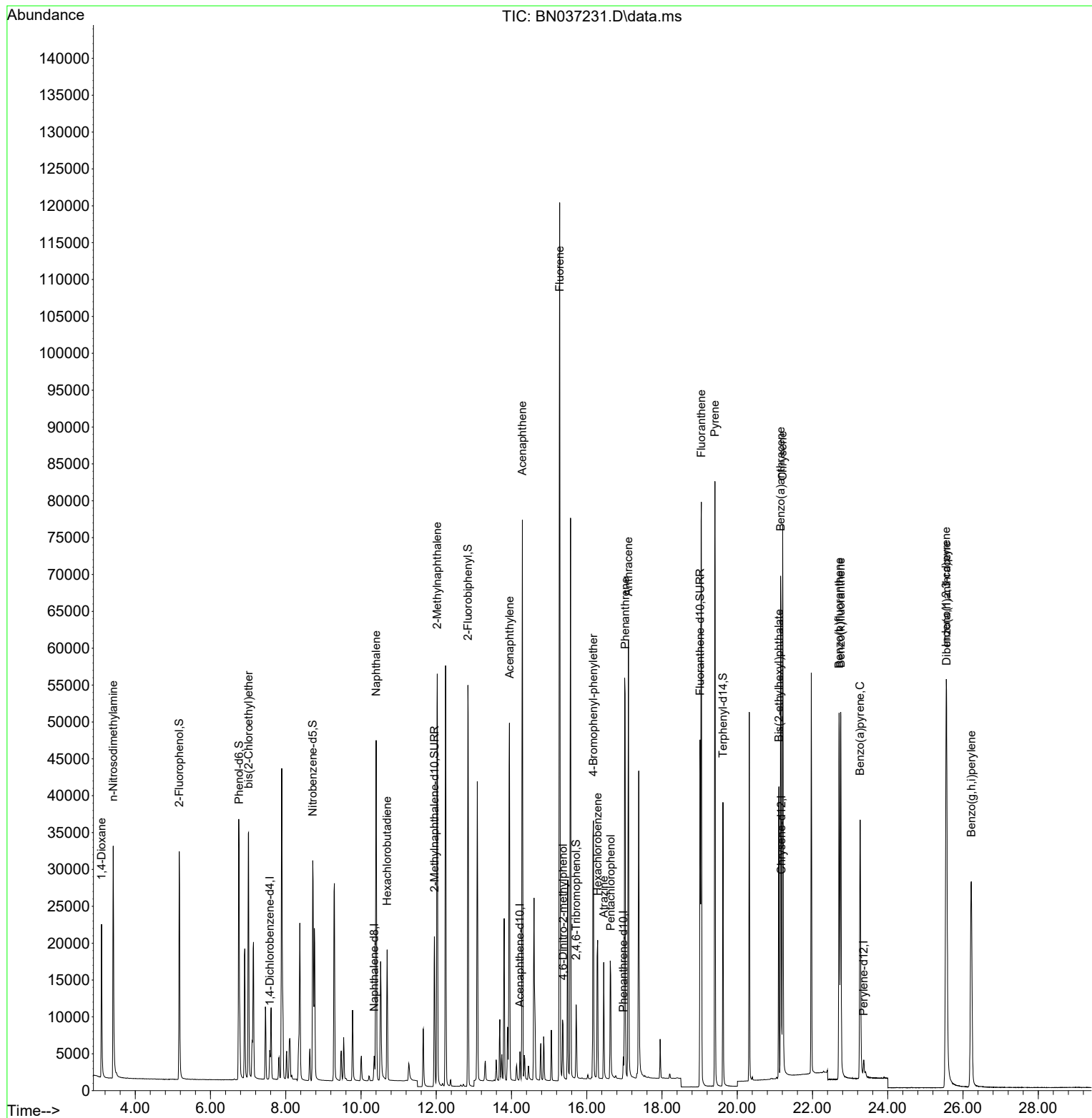
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1719	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3927	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	2088	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3744	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3121	0.400	ng	0.00
35) Perylene-d12	23.360	264	2895	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	20890	4.948	ng	0.00
5) Phenol-d6	6.759	99	25211	5.666	ng	0.00
8) Nitrobenzene-d5	8.717	82	22243	5.731	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	27140	5.150	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	4635	5.344	ng	-0.01
15) 2-Fluorobiphenyl	12.843	172	44772	5.103	ng	0.00
27) Fluoranthene-d10	19.012	212	50205	5.125	ng	0.00
31) Terphenyl-d14	19.621	244	36062	5.111	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	10450	4.431	ng	Qvalue 92
3) n-Nitrosodimethylamine	3.415	42	24357	4.533	ng	94
6) bis(2-Chloroethyl)ether	7.012	93	22354	5.609	ng	94
9) Naphthalene	10.404	128	56880	5.002	ng	94
10) Hexachlorobutadiene	10.692	225	12686	4.586	ng	# 98
12) 2-Methylnaphthalene	12.026	142	36587	5.292	ng	98
16) Acenaphthylene	13.946	152	52739	5.154	ng	99
17) Acenaphthene	14.288	154	33323	5.045	ng	97
18) Fluorene	15.282	166	43051	5.075	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	5424	4.992	ng	# 36
21) 4-Bromophenyl-phenylether	16.177	248	12785	5.240	ng	# 81
22) Hexachlorobenzene	16.289	284	13054	4.616	ng	98
23) Atrazine	16.450	200	11399	5.239	ng	# 87
24) Pentachlorophenol	16.636	266	8014	5.782	ng	97
25) Phenanthrene	17.021	178	62123	5.232	ng	99
26) Anthracene	17.108	178	59009	5.429	ng	99
28) Fluoranthene	19.045	202	71952	5.177	ng	98
30) Pyrene	19.407	202	72342	4.930	ng	99
32) Benzo(a)anthracene	21.153	228	58498	5.551	ng	97
33) Chrysene	21.206	228	63057	4.803	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	37466	4.774	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.552	276	65610	5.620	ng	# 94
37) Benzo(b)fluoranthene	22.708	252	58631	5.536	ng	# 85
38) Benzo(k)fluoranthene	22.749	252	62537	5.148	ng	# 85
39) Benzo(a)pyrene	23.266	252	51138	5.368	ng	# 78
40) Dibenzo(a,h)anthracene	25.564	278	51648	5.871	ng	# 81
41) Benzo(g,h,i)perylene	26.219	276	56339	5.204	ng	96

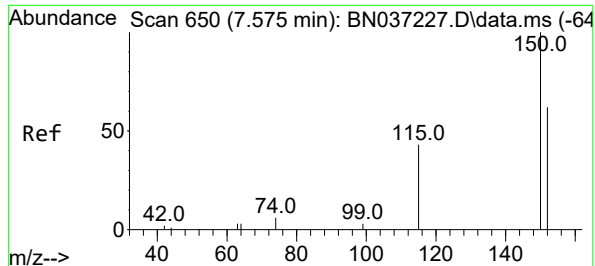
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037231.D
Acq On : 13 Jun 2025 17:11
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:34:15 2025
Response via : Initial Calibration

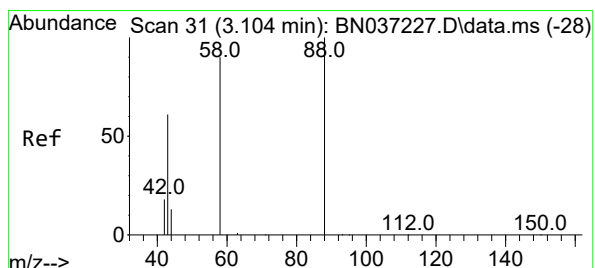
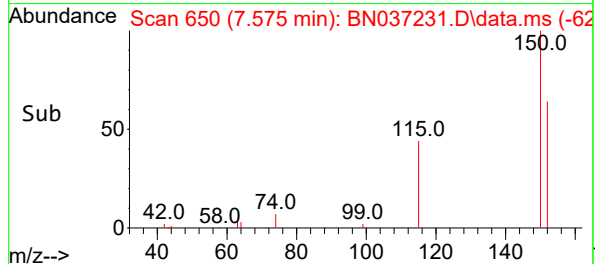
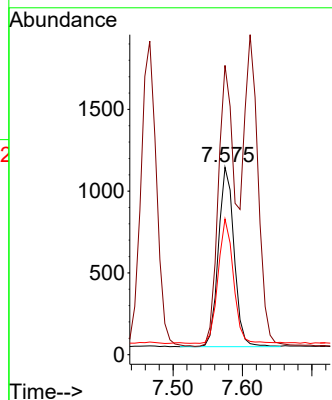
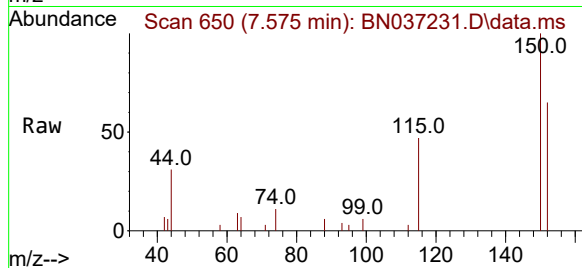




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

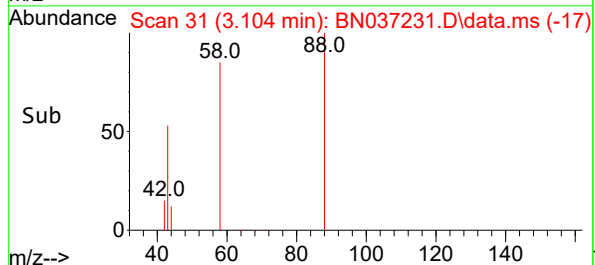
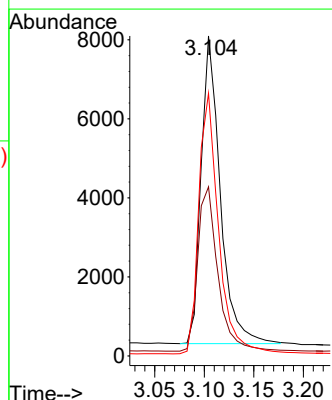
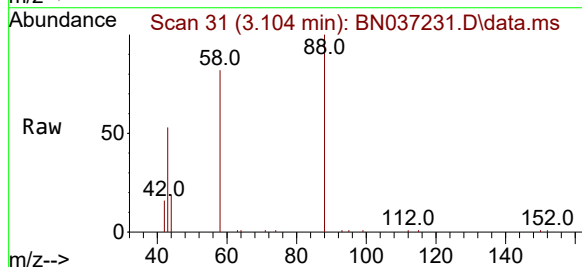
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

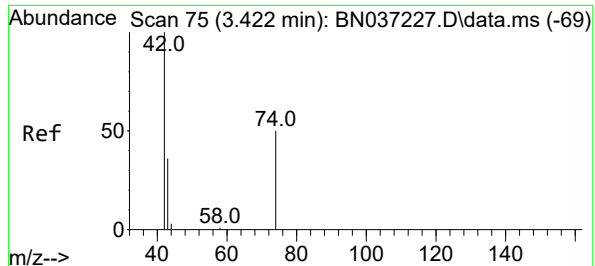
Tgt Ion:152 Resp: 1719
Ion Ratio Lower Upper
152 100
150 154.4 125.2 187.8
115 72.4 58.4 87.6



#2
1,4-Dioxane
Concen: 4.431 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 88 Resp: 10450
Ion Ratio Lower Upper
88 100
43 56.4 52.6 79.0
58 87.7 73.5 110.3

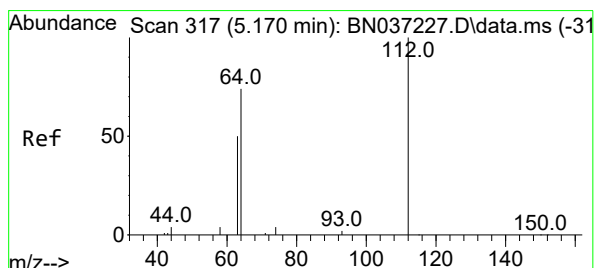
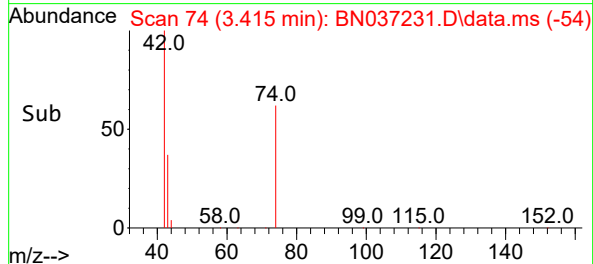
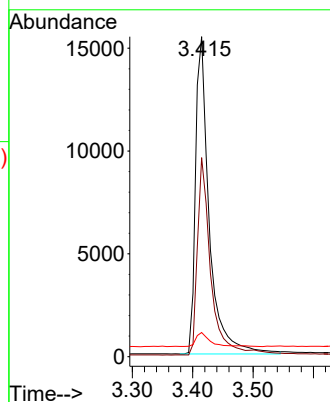
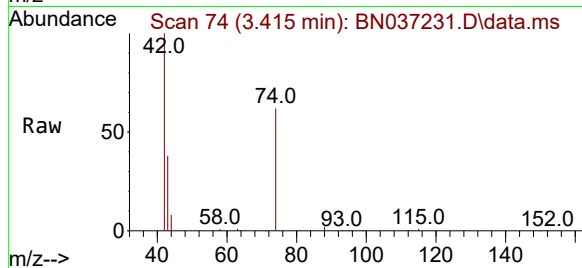




#3
n-Nitrosodimethylamine
Concen: 4.533 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

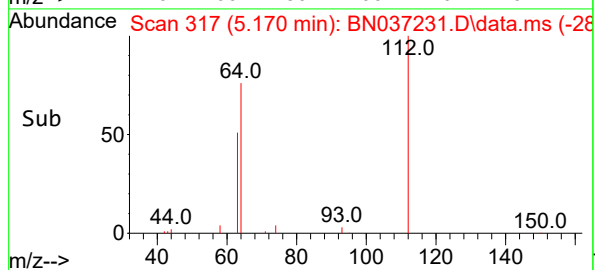
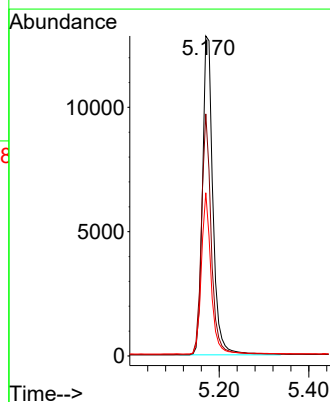
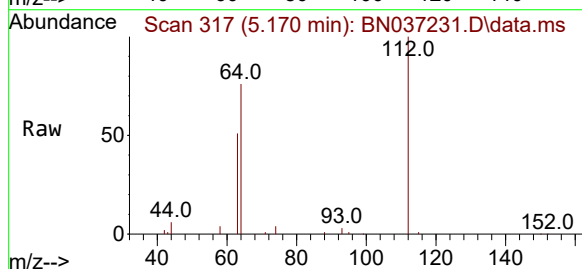
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

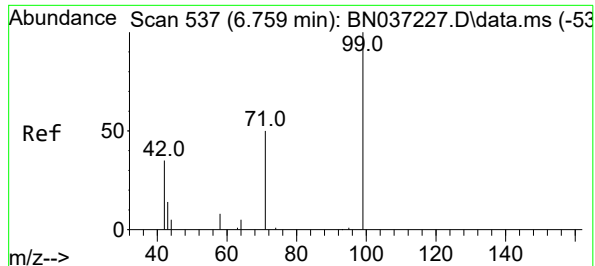
Tgt Ion: 42 Resp: 24357
Ion Ratio Lower Upper
42 100
74 60.7 44.6 66.8
44 4.7 3.5 5.3



#4
2-Fluorophenol
Concen: 4.948 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 112 Resp: 20890
Ion Ratio Lower Upper
112 100
64 70.8 57.2 85.8
63 47.0 39.8 59.6

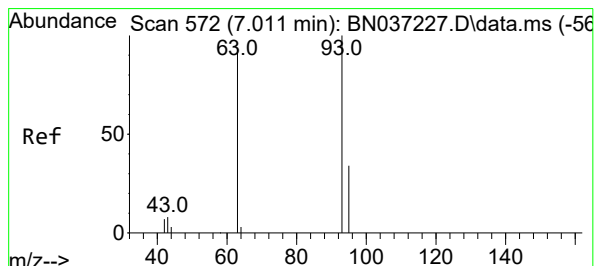
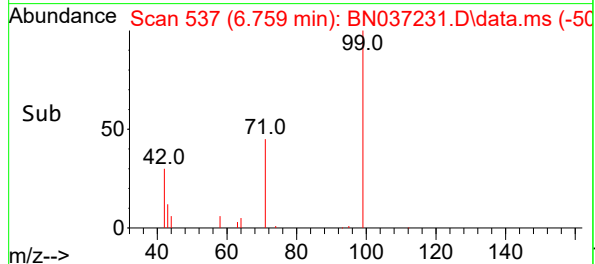
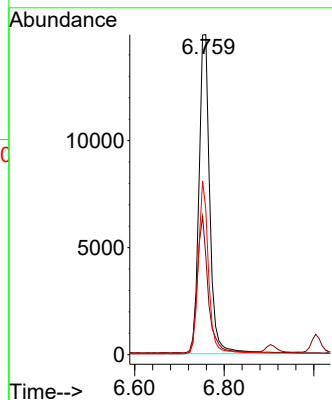
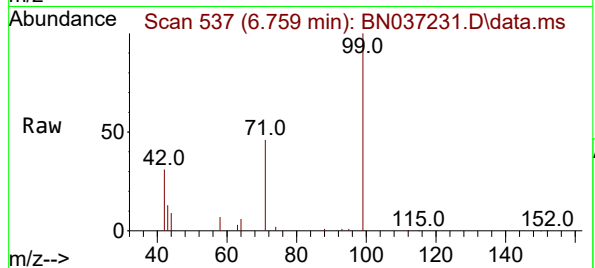




#5
Phenol-d6
Concen: 5.666 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

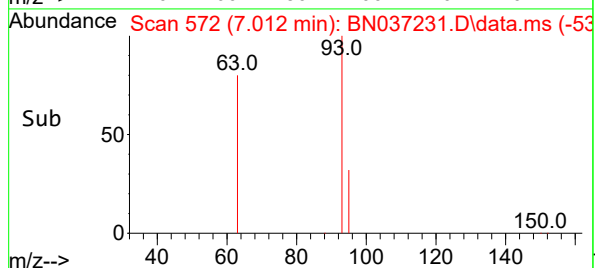
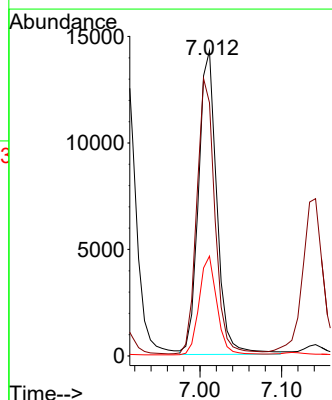
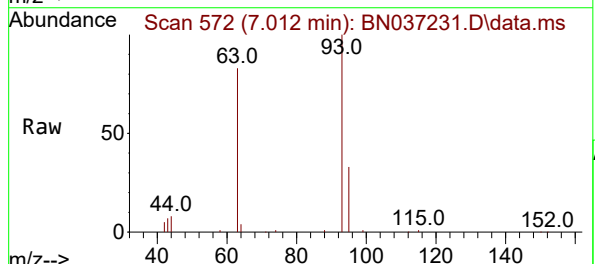
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

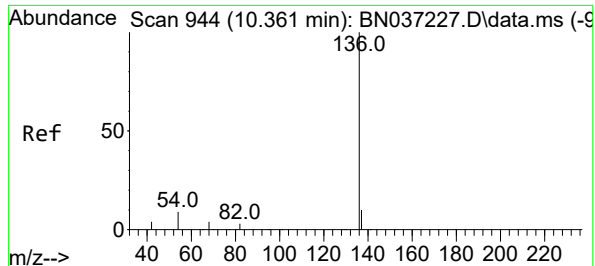
Tgt Ion: 99 Resp: 25211
Ion Ratio Lower Upper
99 100
42 42.3 36.2 54.4
71 50.9 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 5.609 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion: 93 Resp: 22354
Ion Ratio Lower Upper
93 100
63 88.9 75.2 112.8
95 31.6 28.3 42.5

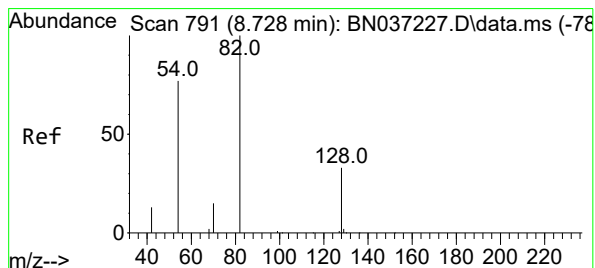
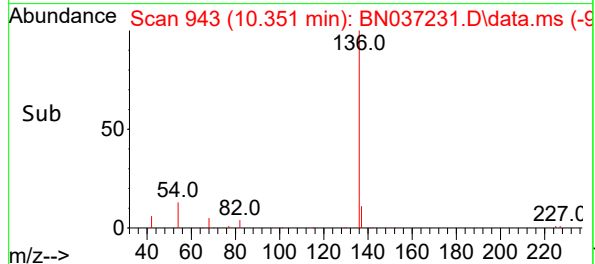
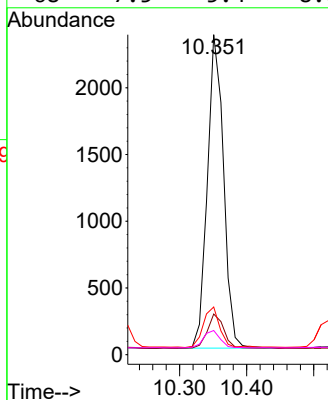
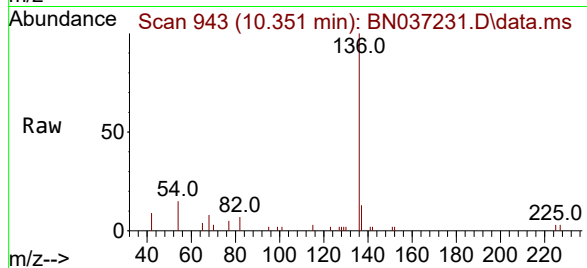




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

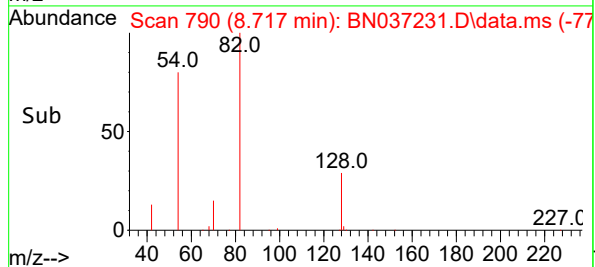
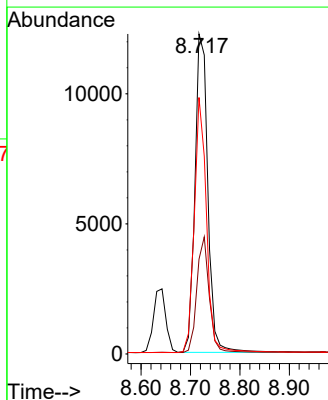
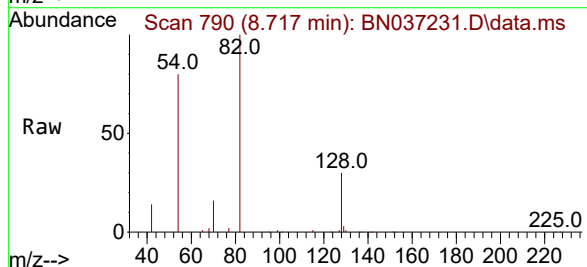
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

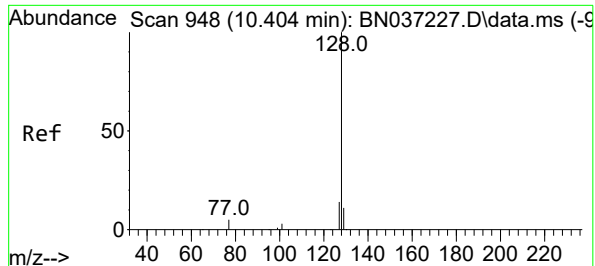
Tgt Ion:	136	Resp:	3927
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.6	15.8
54	14.9	9.2	13.8#
68	7.5	5.4	8.0



#8
Nitrobenzene-d5
Concen: 5.731 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:	82	Resp:	22243
Ion	Ratio	Lower	Upper
82	100		
128	29.6	31.2	46.8#
54	80.1	63.3	94.9

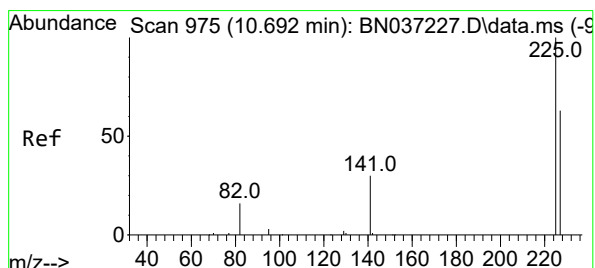
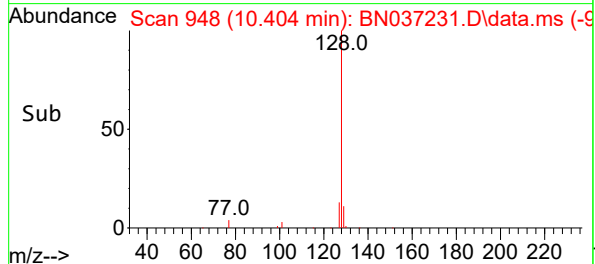
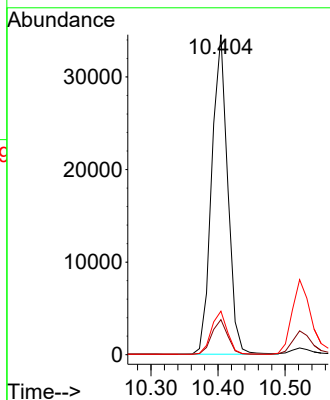
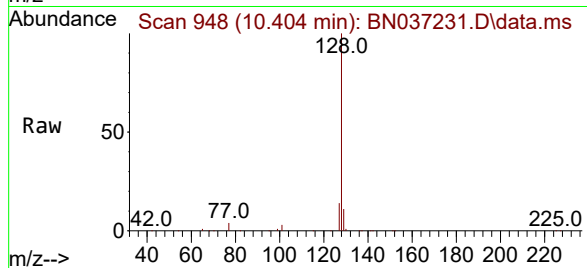




#9
Naphthalene
Concen: 5.002 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

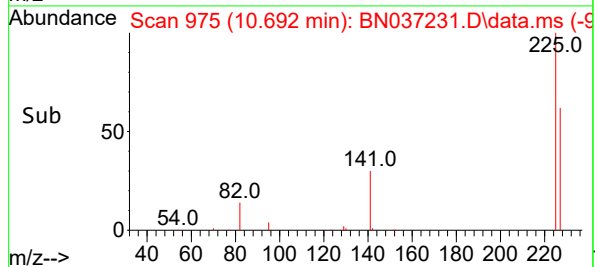
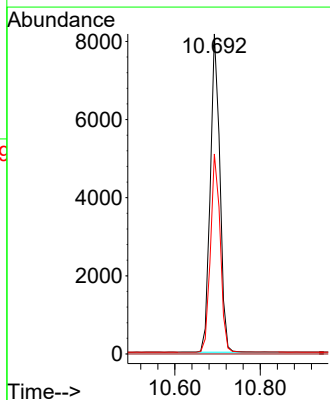
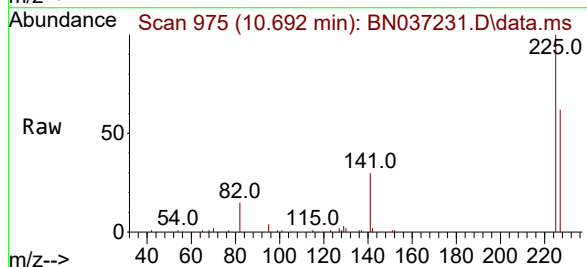
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

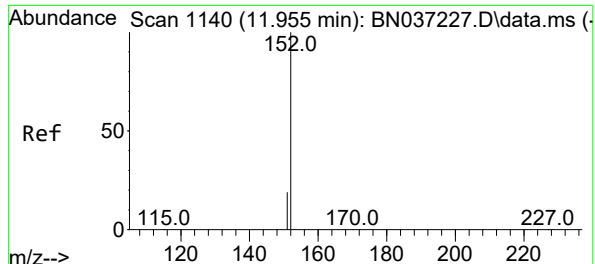
Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	10.7	16.1
127	13.6	12.6	19.0



#10
Hexachlorobutadiene
Concen: 4.586 ng
RT: 10.692 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	49.2	73.8

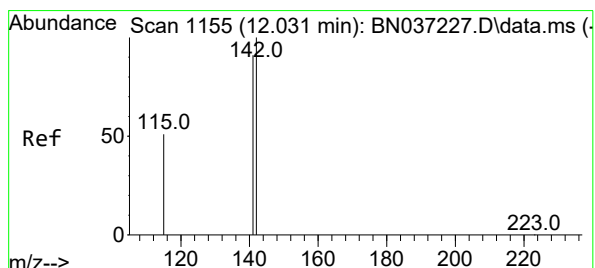
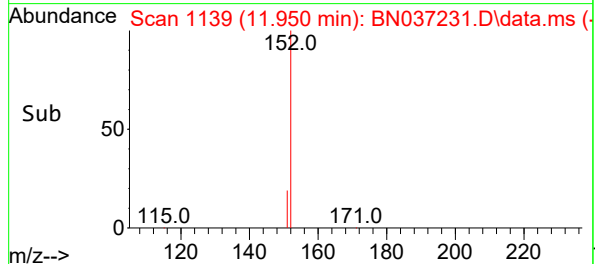
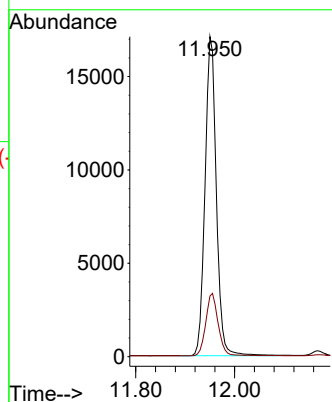
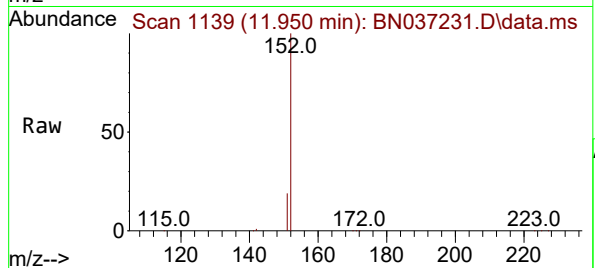




#11
2-Methylnaphthalene-d10
Concen: 5.150 ng
RT: 11.950 min Scan# 1140
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

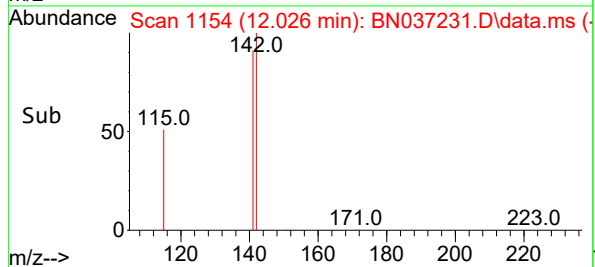
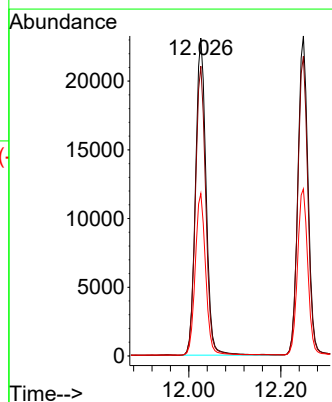
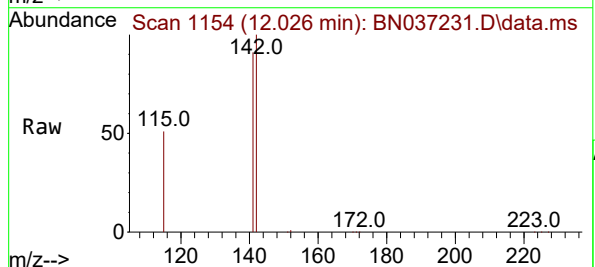
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

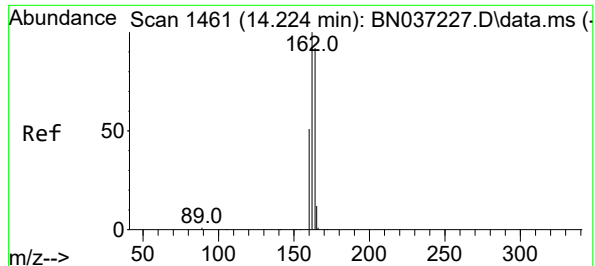
Tgt Ion:152 Resp: 27140
Ion Ratio Lower Upper
152 100
151 21.4 17.9 26.9



#12
2-Methylnaphthalene
Concen: 5.292 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:142 Resp: 36587
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.6
115 51.1 43.3 64.9

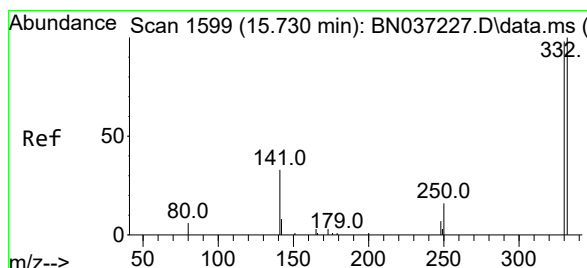
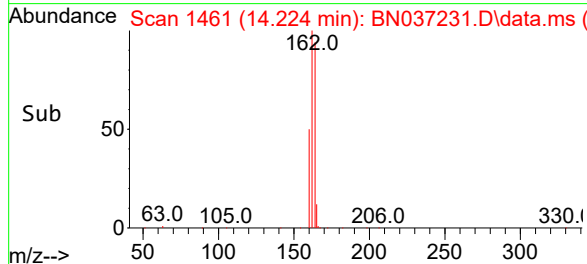
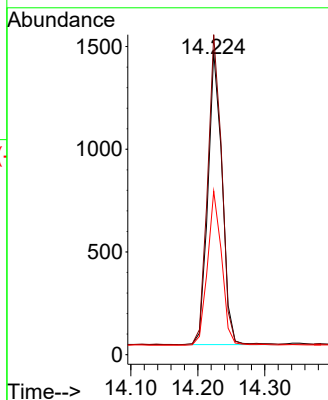
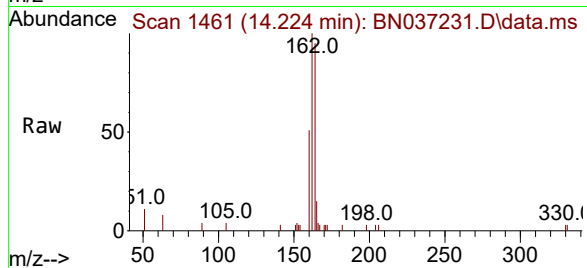




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

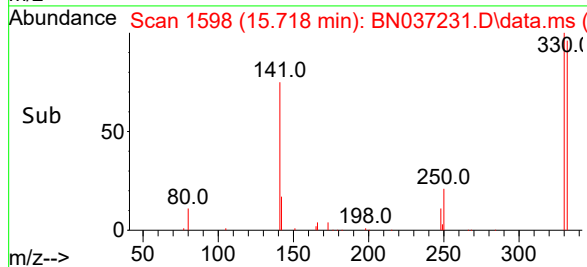
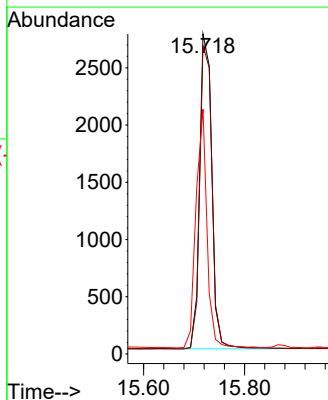
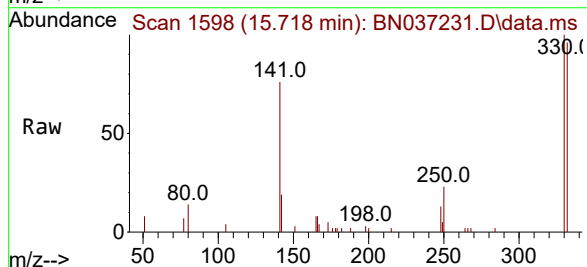
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

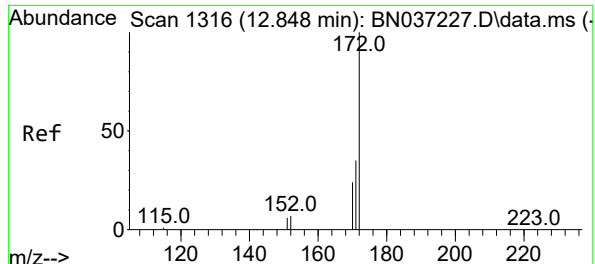
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	86.7	130.1
160	54.0	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 5.344 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.5	74.9	112.3
141	68.7	45.1	67.7#

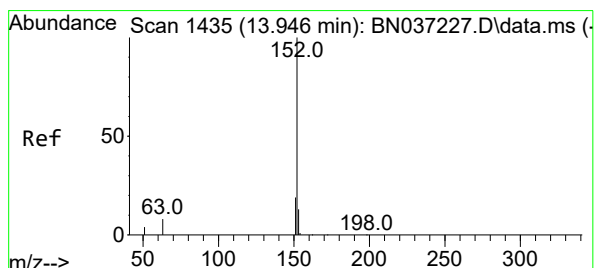
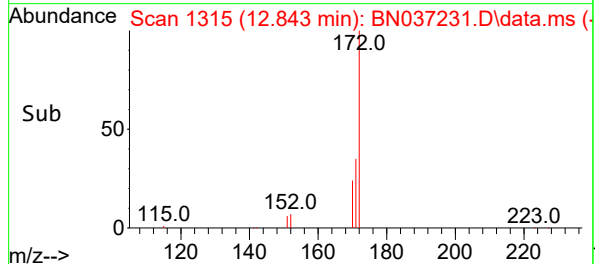
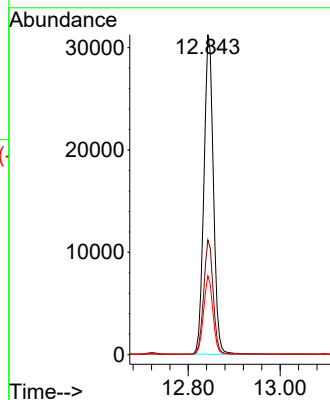
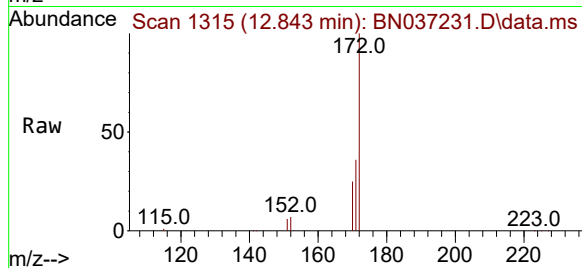




#15
2-Fluorobiphenyl
Concen: 5.103 ng
RT: 12.843 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

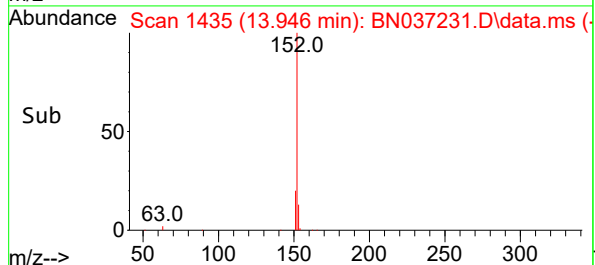
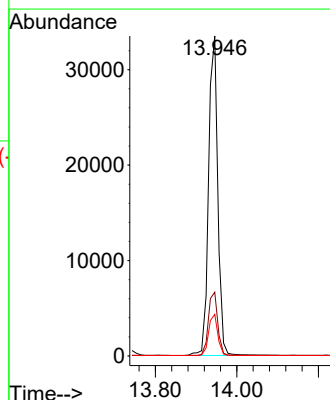
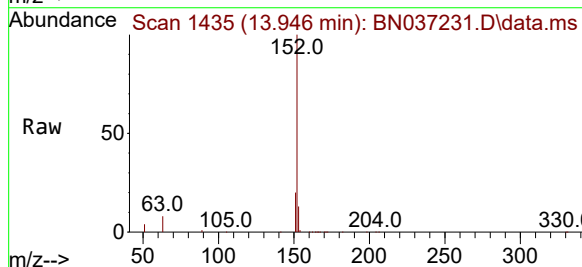
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

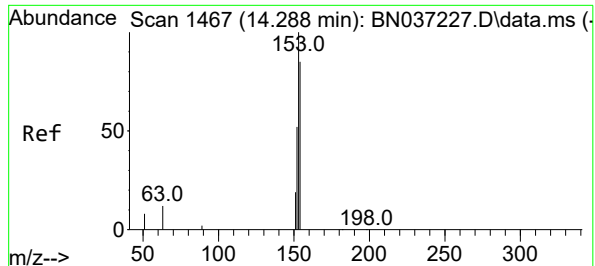
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.8	44.8
170	24.6	21.1	31.7



#16
Acenaphthylene
Concen: 5.154 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.7	23.5
153	12.9	10.7	16.1

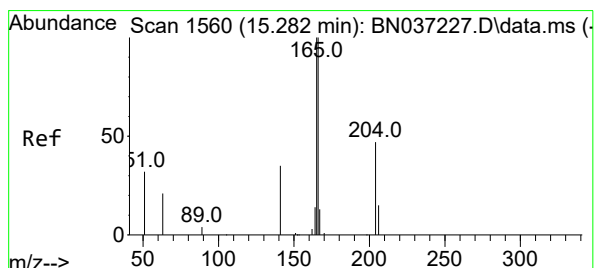
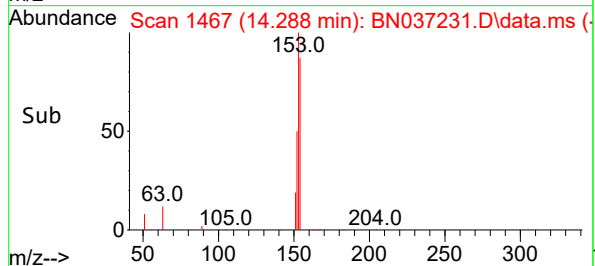
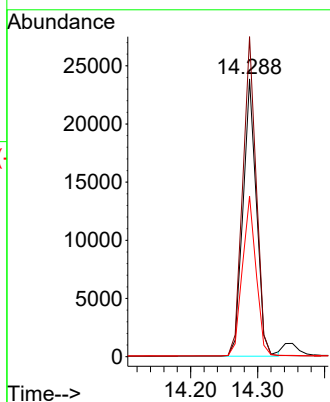
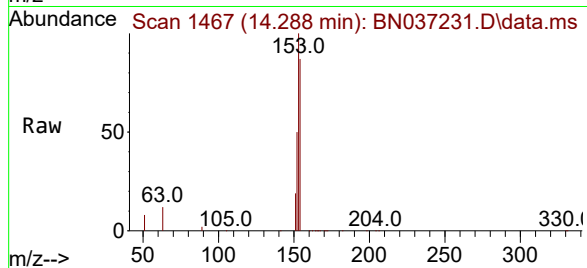




#17
Acenaphthene
Concen: 5.045 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

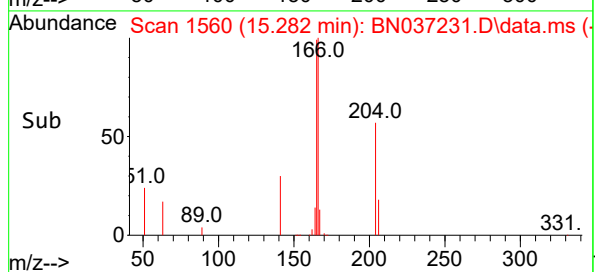
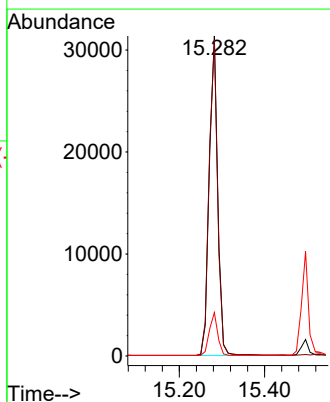
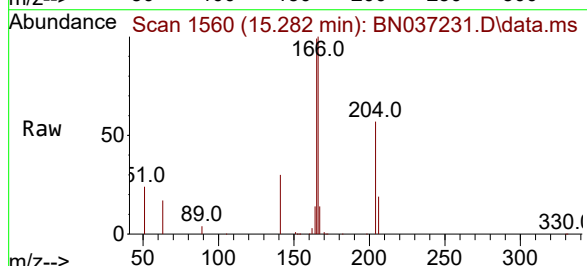
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

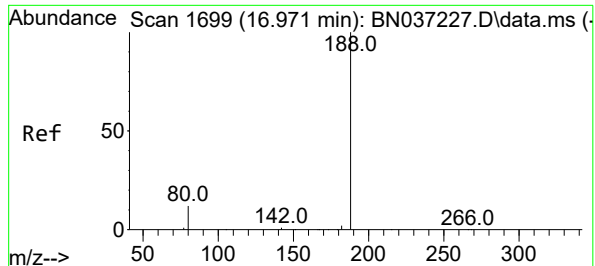
Tgt Ion:154 Resp: 33323
Ion Ratio Lower Upper
154 100
153 115.1 94.6 141.8
152 58.6 49.6 74.4



#18
Fluorene
Concen: 5.075 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:166 Resp: 43051
Ion Ratio Lower Upper
166 100
165 99.9 79.8 119.6
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

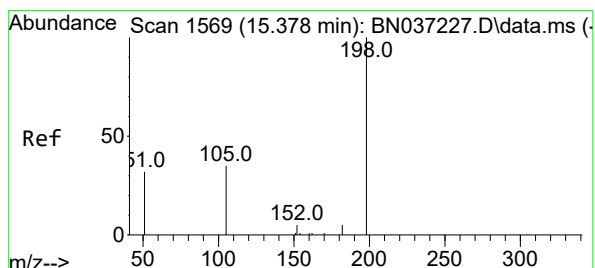
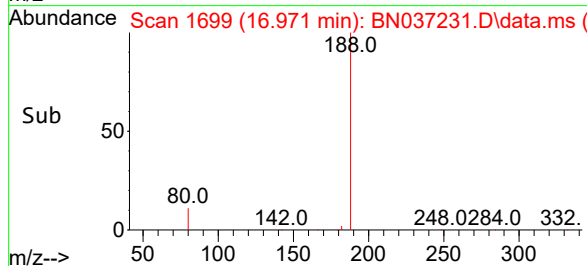
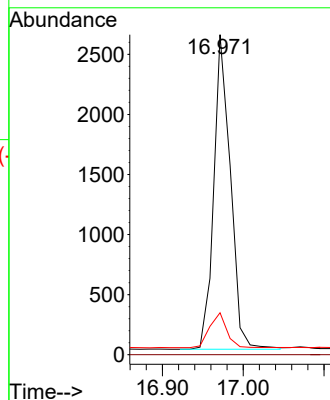
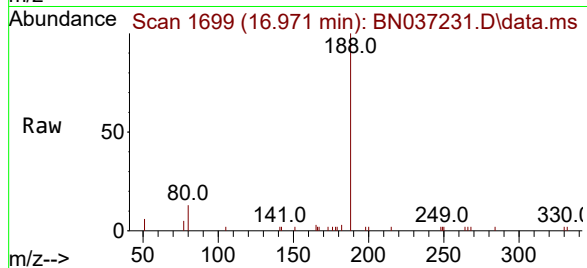
Tgt Ion:188 Resp: 3744

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.992 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

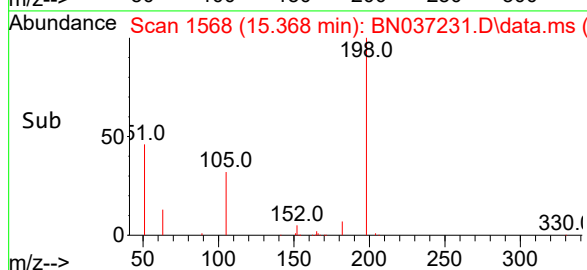
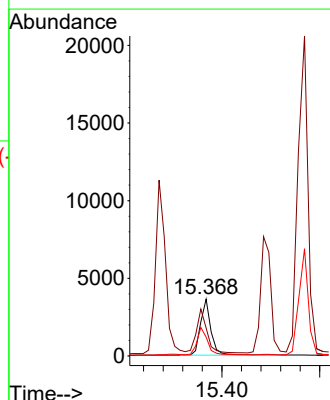
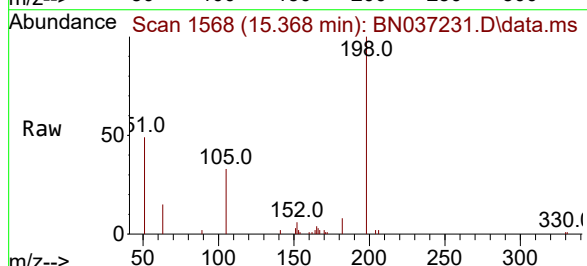
Tgt Ion:198 Resp: 5424

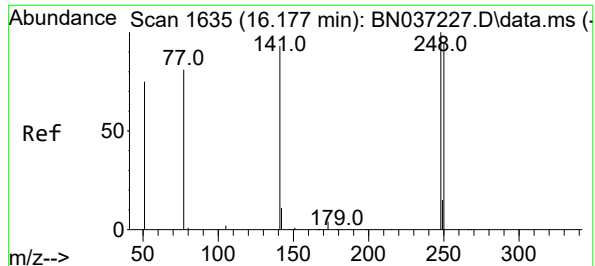
Ion Ratio Lower Upper

198 100

51 49.4 111.2 166.8#

105 33.2 54.0 81.0#

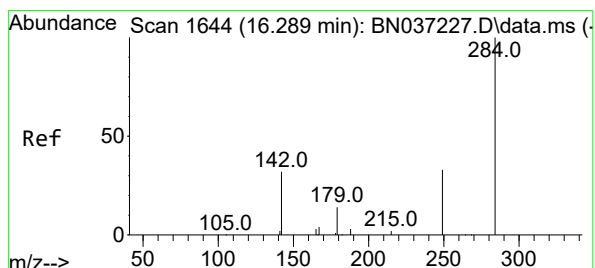
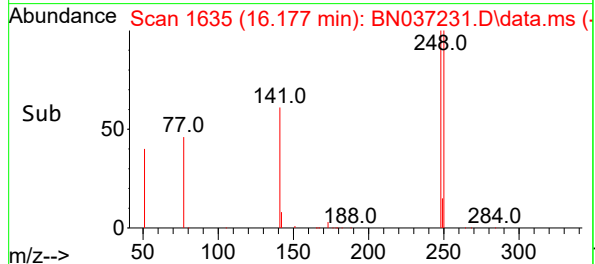
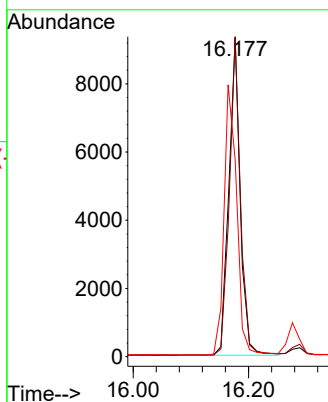
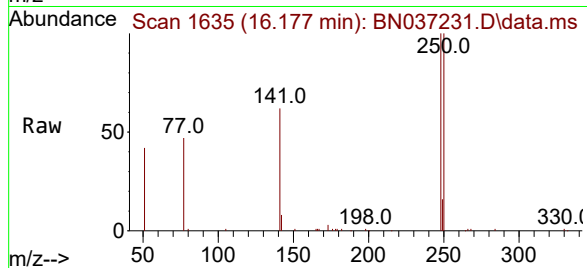




#21
4-Bromophenyl-phenylether
Concen: 5.240 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

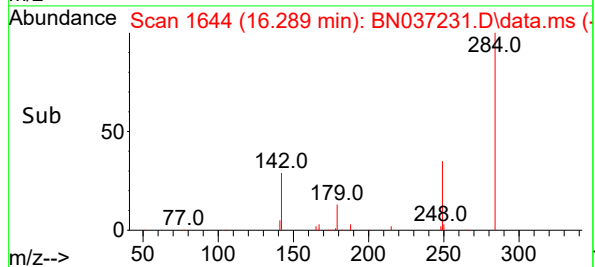
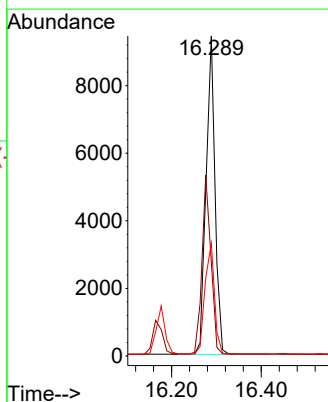
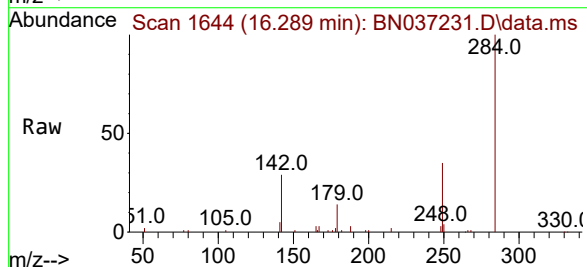
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

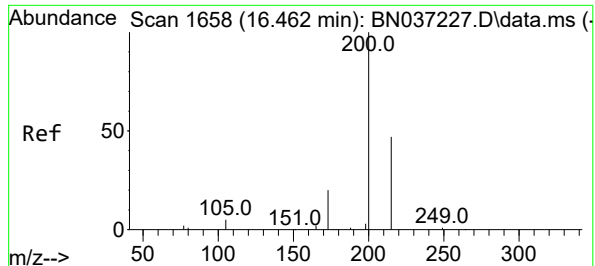
Tgt Ion:248 Resp: 12785
Ion Ratio Lower Upper
248 100
250 100.3 76.8 115.2
141 61.8 75.6 113.4#



#22
Hexachlorobenzene
Concen: 4.616 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:284 Resp: 13054
Ion Ratio Lower Upper
284 100
142 56.1 43.8 65.6
249 37.0 28.4 42.6

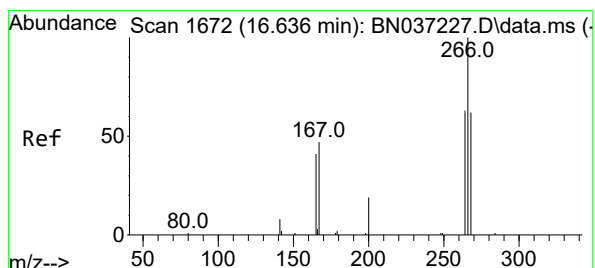
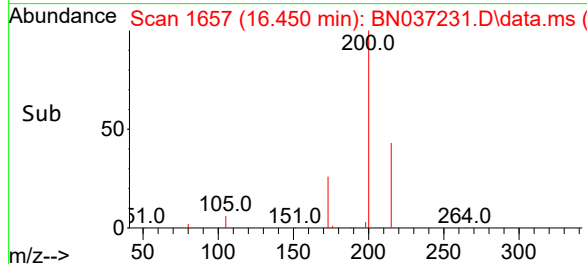
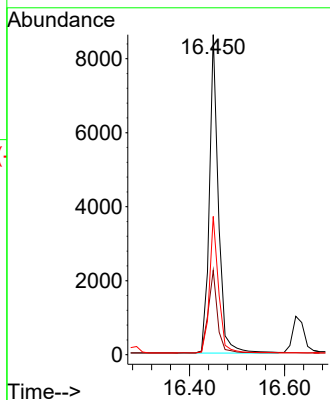
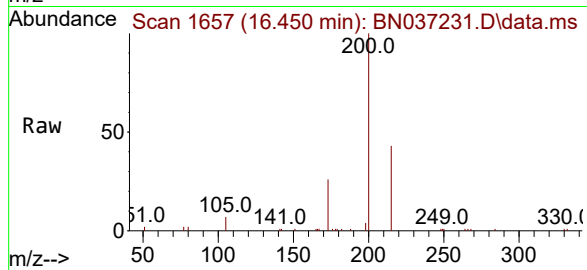




#23
Atrazine
Concen: 5.239 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

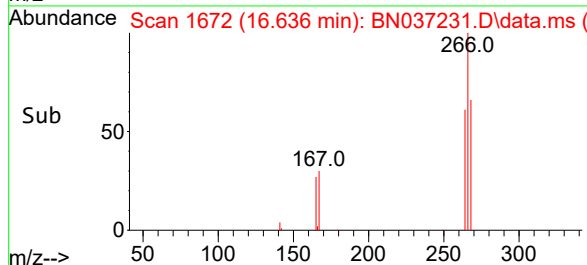
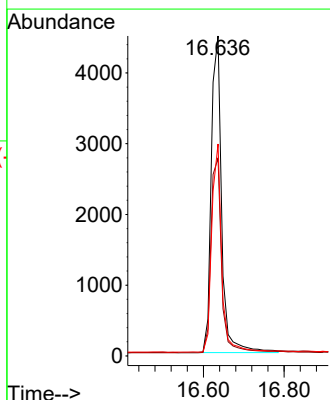
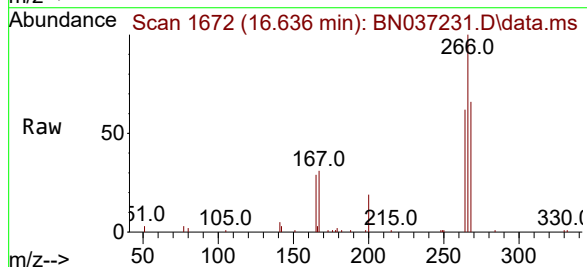
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

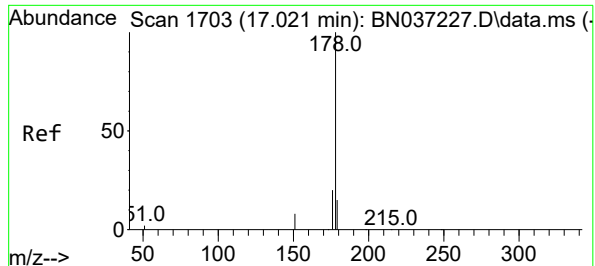
Tgt Ion:200 Resp: 11399
Ion Ratio Lower Upper
200 100
173 26.4 25.1 37.7
215 43.2 43.7 65.5#



#24
Pentachlorophenol
Concen: 5.782 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:266 Resp: 8014
Ion Ratio Lower Upper
266 100
264 63.1 49.2 73.8
268 63.1 53.4 80.2

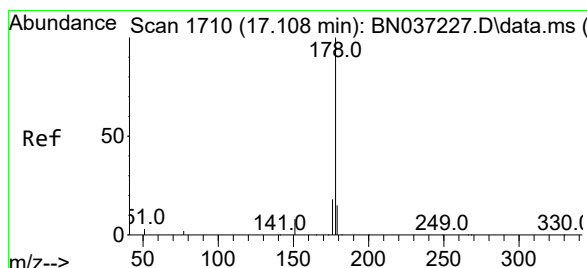
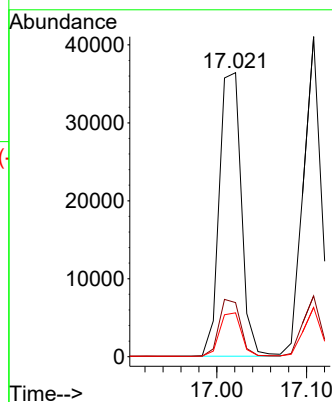
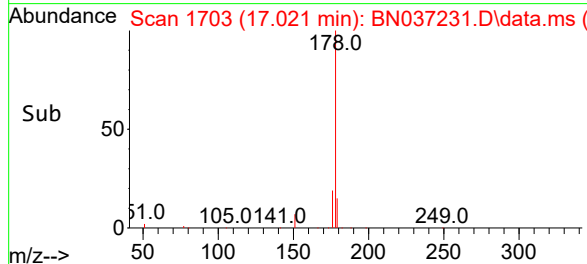
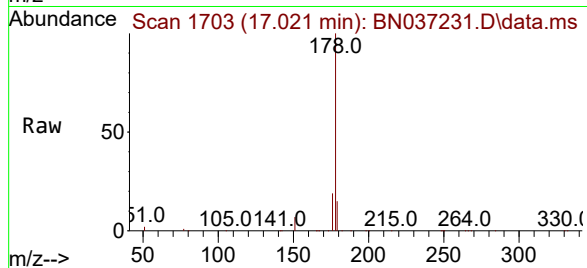




#25
Phenanthrene
Concen: 5.232 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

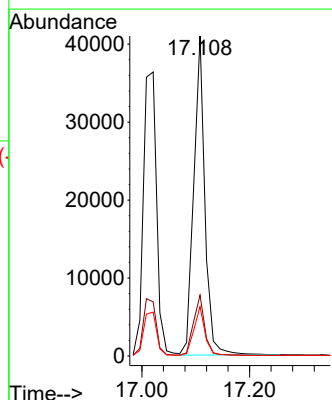
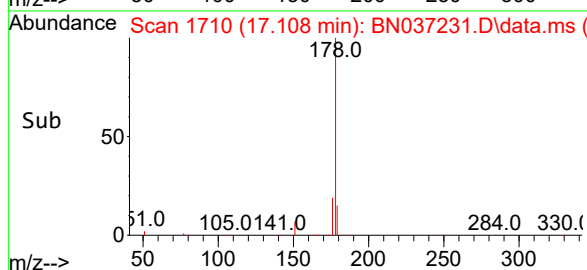
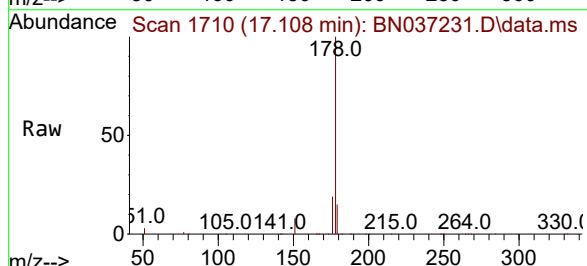
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

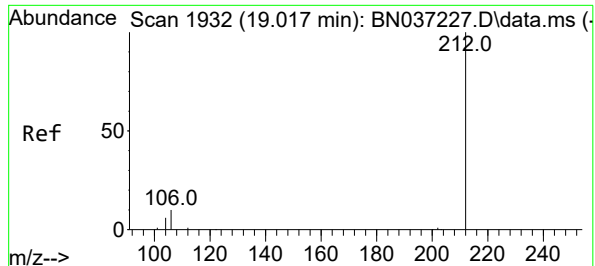
Tgt Ion:178 Resp: 62123
Ion Ratio Lower Upper
178 100
176 19.7 16.3 24.5
179 15.2 12.6 18.8



#26
Anthracene
Concen: 5.429 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:178 Resp: 59009
Ion Ratio Lower Upper
178 100
176 19.2 15.1 22.7
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 5.125 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

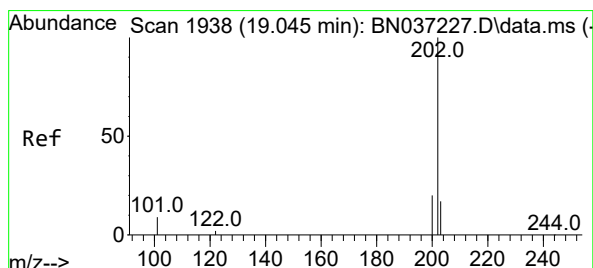
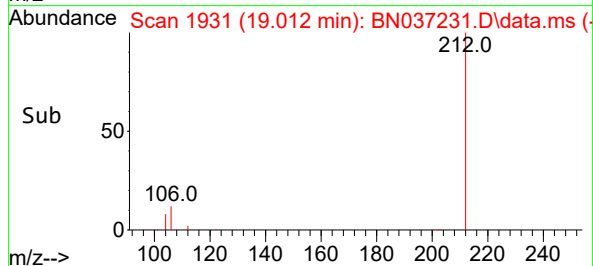
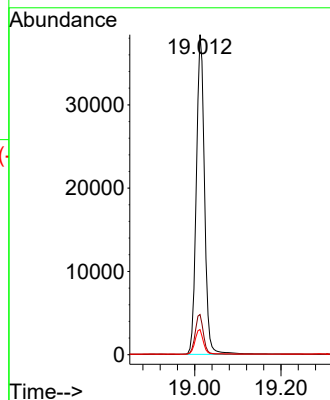
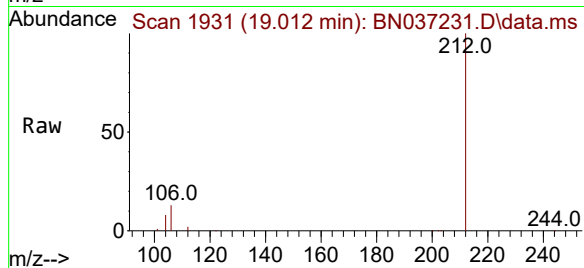
Tgt Ion:212 Resp: 50205

Ion Ratio Lower Upper

212 100

106 12.6 9.3 13.9

104 7.7 5.7 8.5



#28

Fluoranthene

Concen: 5.177 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

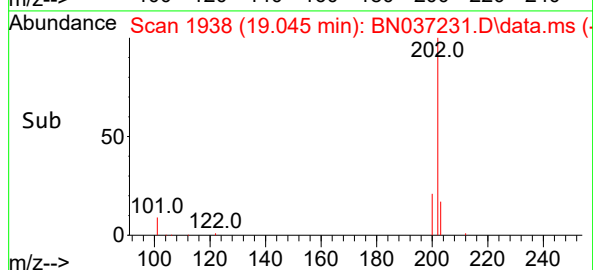
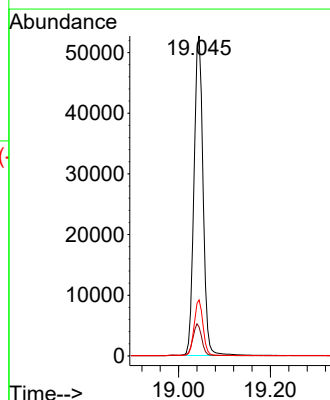
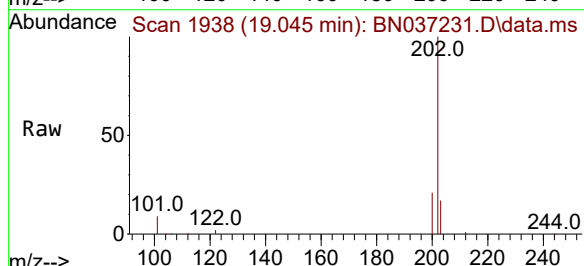
Tgt Ion:202 Resp: 71952

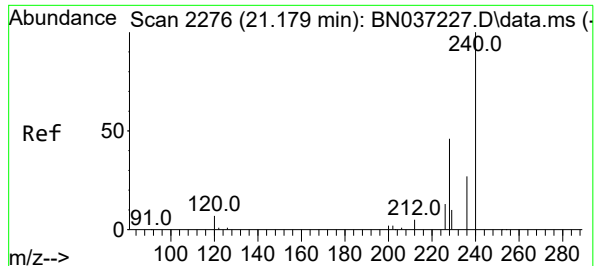
Ion Ratio Lower Upper

202 100

101 10.0 7.1 10.7

203 17.2 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

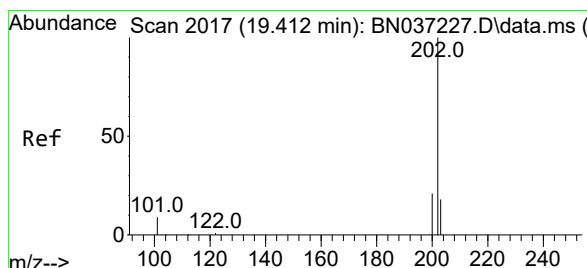
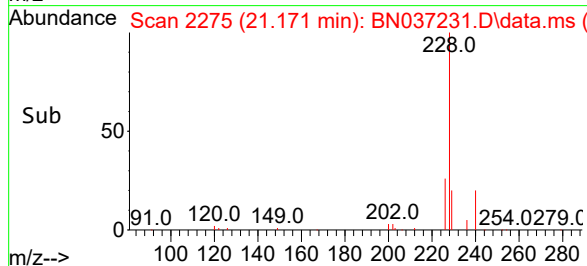
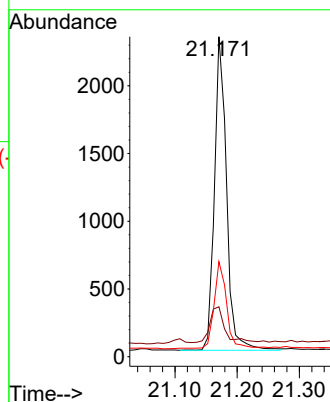
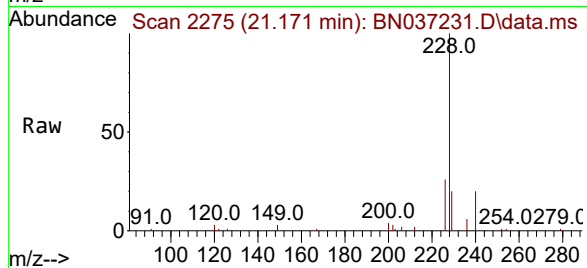
Tgt Ion:240 Resp: 3121

Ion Ratio Lower Upper

240 100

120 15.6 11.3 16.9

236 29.7 24.4 36.6



#30

Pyrene

Concen: 4.930 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

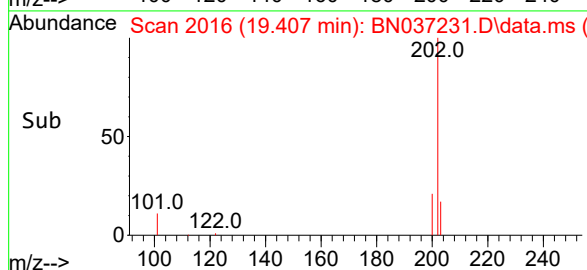
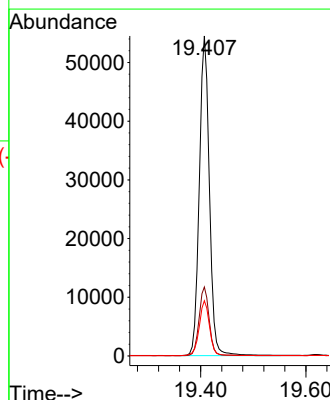
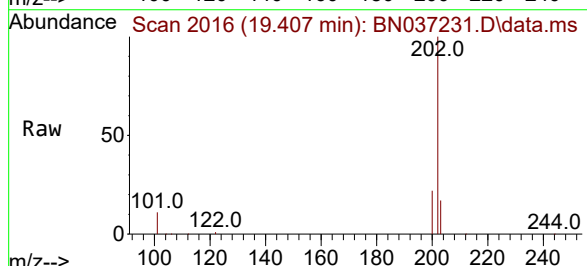
Tgt Ion:202 Resp: 72342

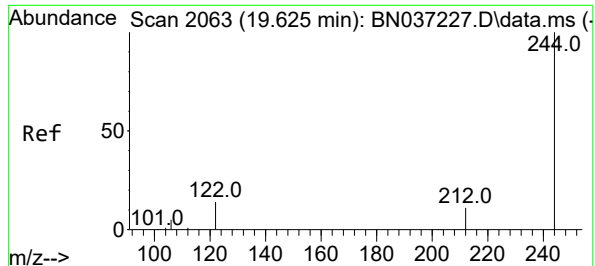
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

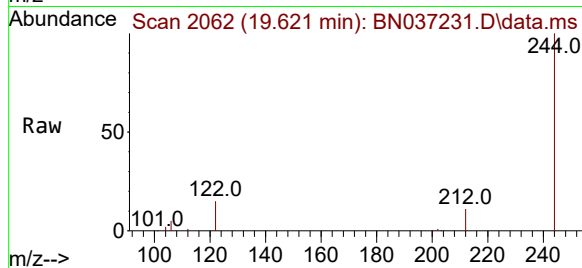
203 17.6 14.3 21.5



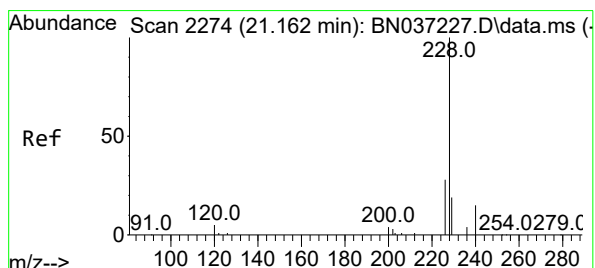
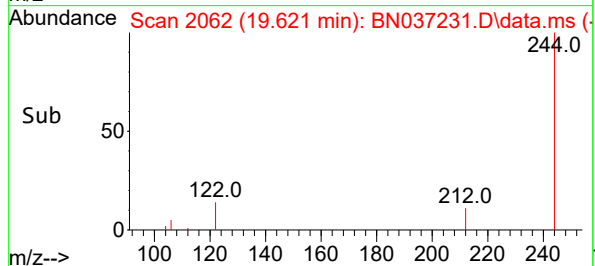
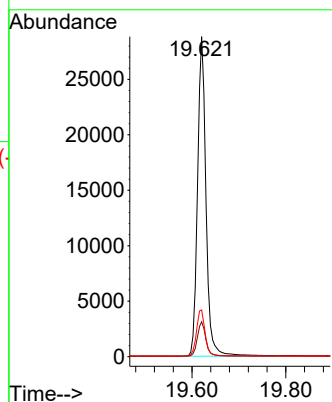


#31
Terphenyl-d14
Concen: 5.111 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

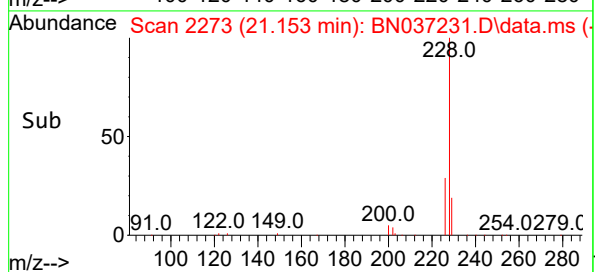
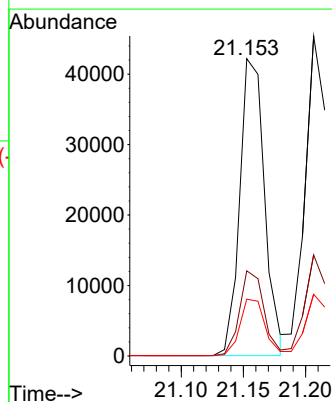
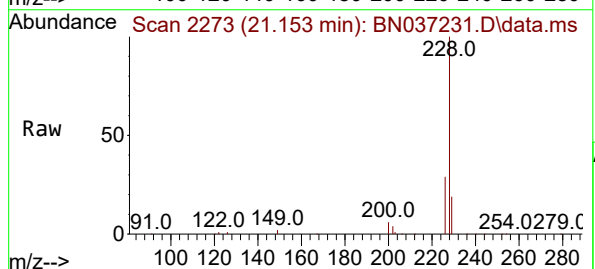


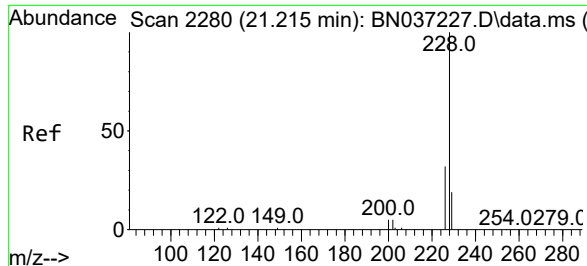
Tgt Ion:244 Resp: 36062
Ion Ratio Lower Upper
244 100
212 10.9 12.2 18.2#
122 14.6 14.3 21.5



#32
Benzo(a)anthracene
Concen: 5.551 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037231.D
Acq: 13 Jun 2025 17:11

Tgt Ion:228 Resp: 58498
Ion Ratio Lower Upper
228 100
226 28.6 23.8 35.8
229 19.1 17.0 25.4





#33

Chrysene

Concen: 4.803 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

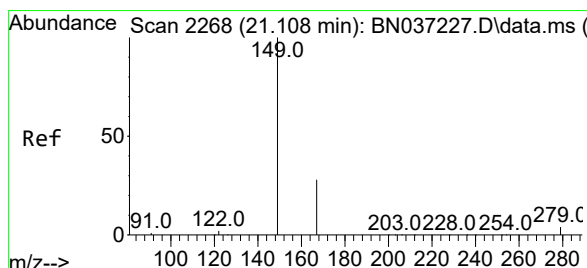
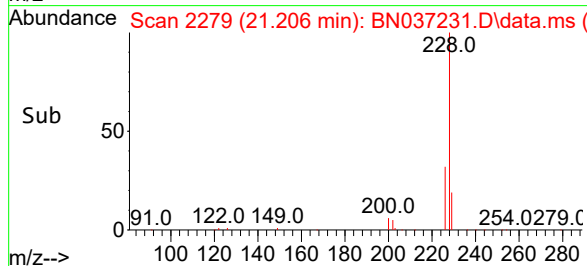
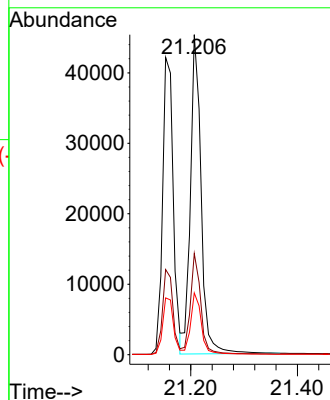
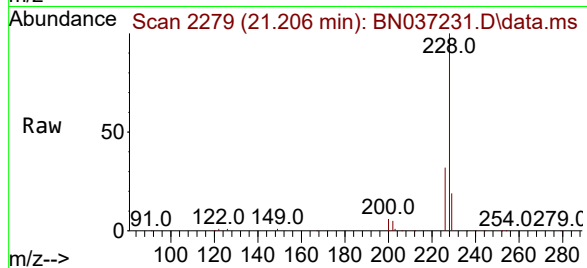
Tgt Ion:228 Resp: 63057

Ion Ratio Lower Upper

228 100

226 31.6 25.8 38.6

229 19.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.774 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

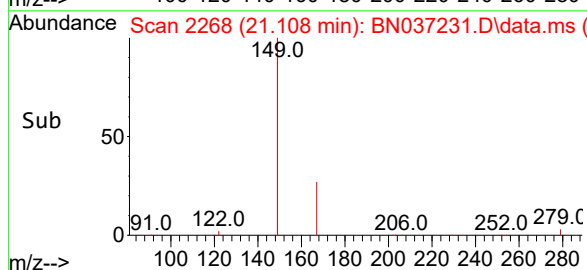
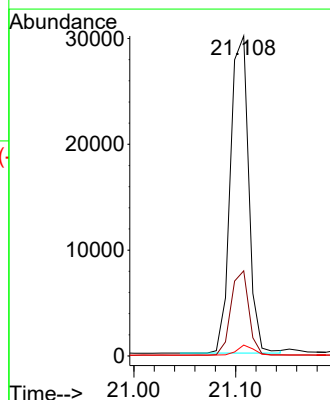
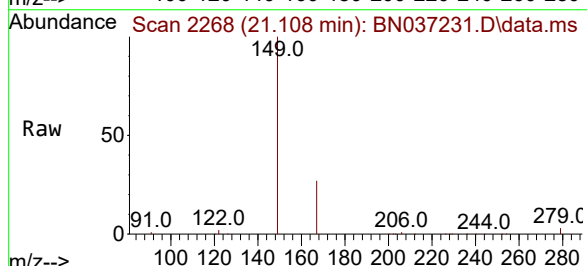
Tgt Ion:149 Resp: 37466

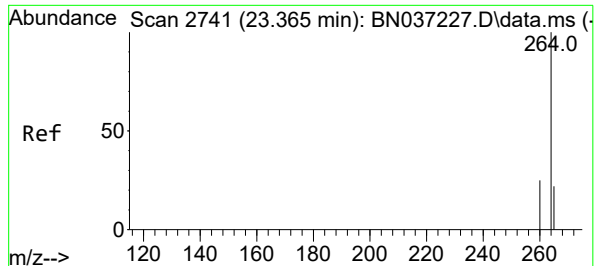
Ion Ratio Lower Upper

149 100

167 26.0 21.3 31.9

279 2.9 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

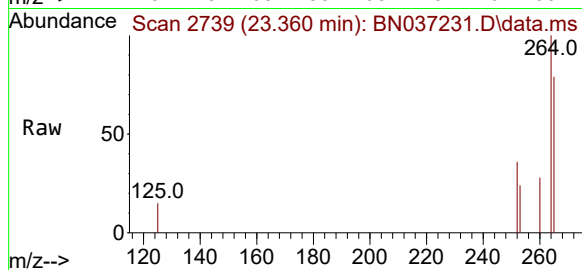
Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



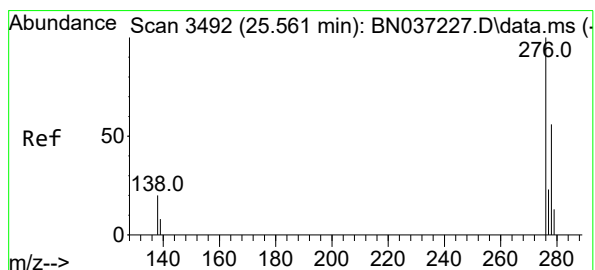
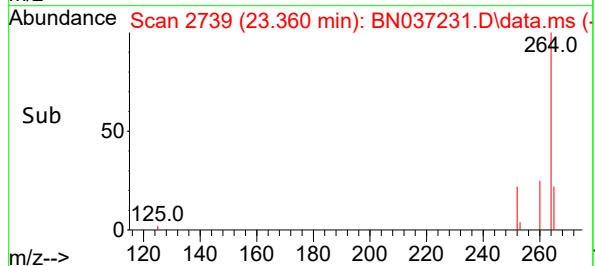
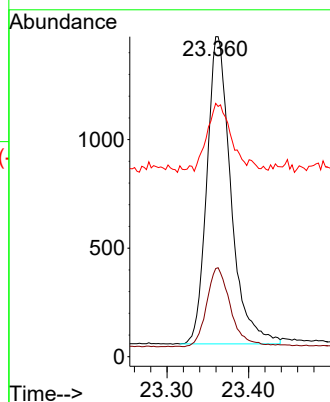
Tgt Ion:264 Resp: 2895

Ion Ratio Lower Upper

264 100

260 27.5 22.8 34.2

265 79.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.620 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

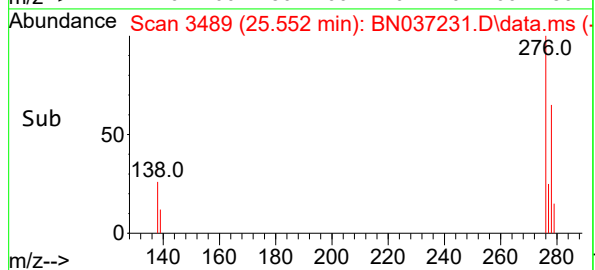
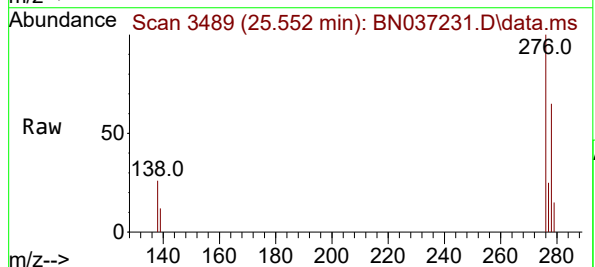
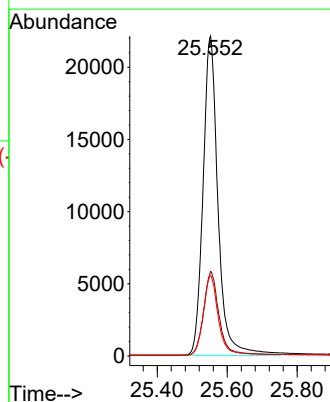
Tgt Ion:276 Resp: 65610

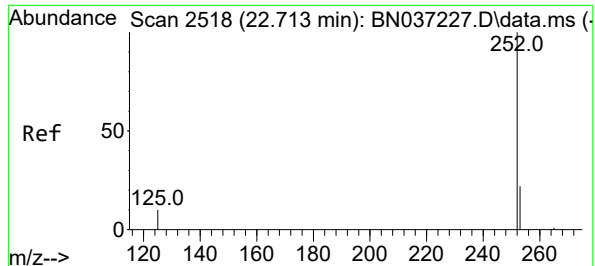
Ion Ratio Lower Upper

276 100

138 26.6 16.8 25.2#

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 5.536 ng

RT: 22.708 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

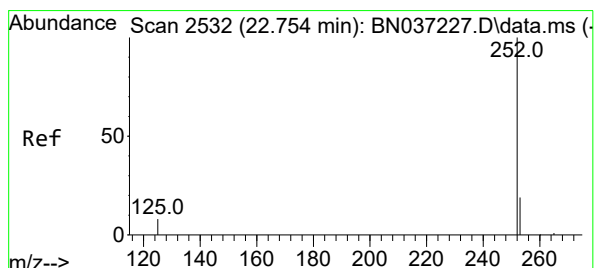
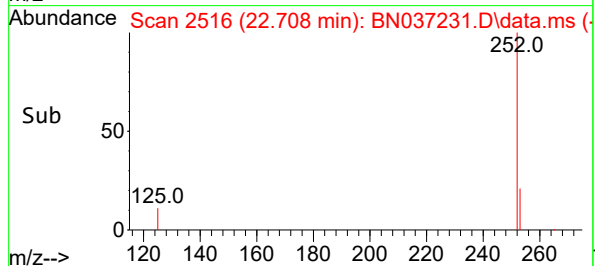
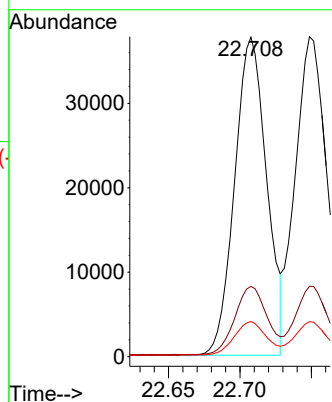
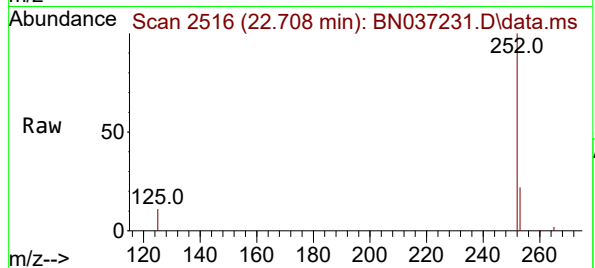
Tgt Ion:252 Resp: 58631

Ion Ratio Lower Upper

252 100

253 22.0 24.9 37.3#

125 11.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 5.148 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

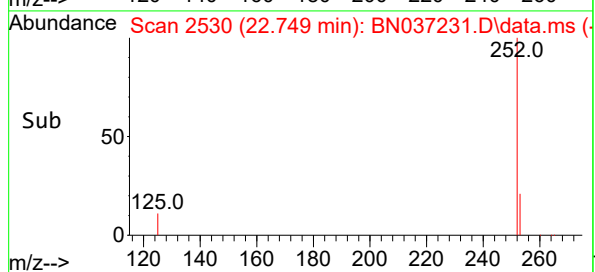
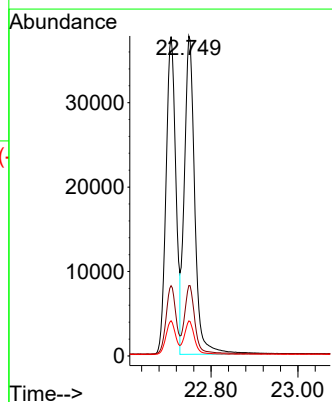
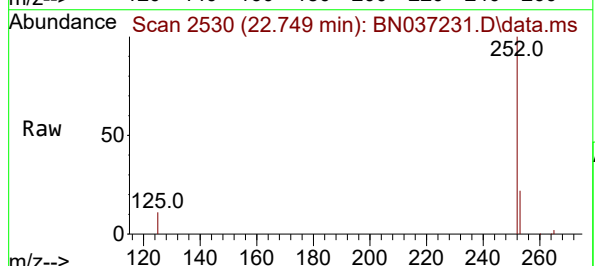
Tgt Ion:252 Resp: 62537

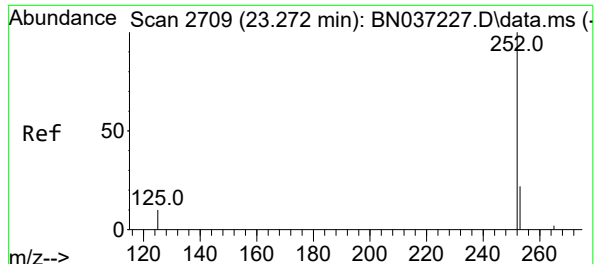
Ion Ratio Lower Upper

252 100

253 22.0 24.6 37.0#

125 11.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 5.368 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

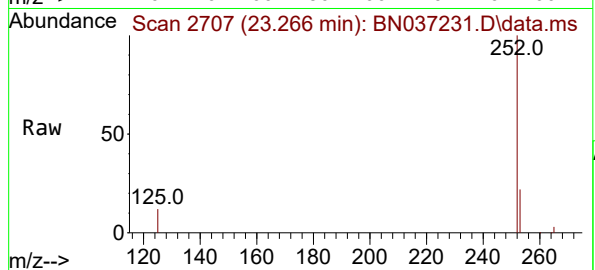
Acq: 13 Jun 2025 17:11

Instrument :

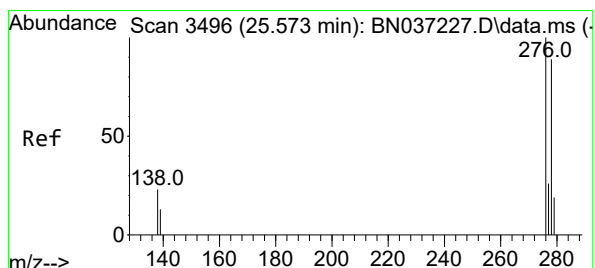
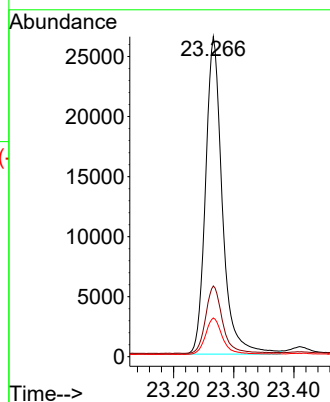
BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:	252	Resp:	51138
Ion Ratio	Lower	Upper	
252	100		
253	22.1	29.4	44.2#
125	12.1	16.2	24.2#



#40

Dibenzo(a,h)anthracene

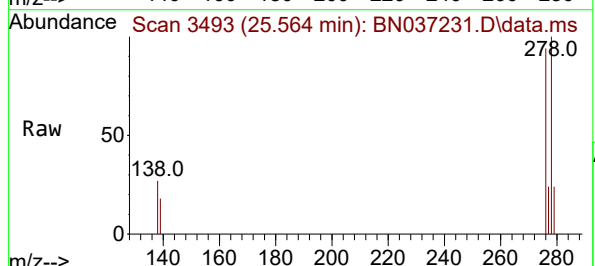
Concen: 5.871 ng

RT: 25.564 min Scan# 3493

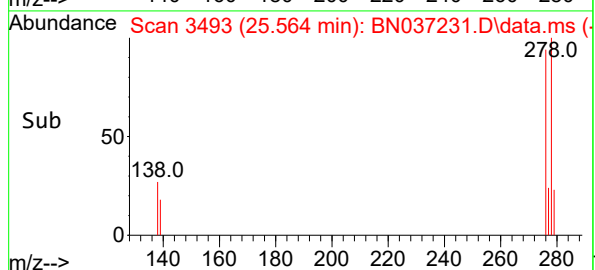
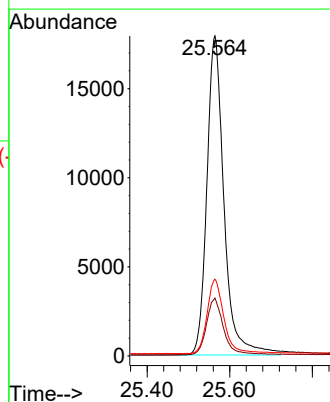
Delta R.T. -0.009 min

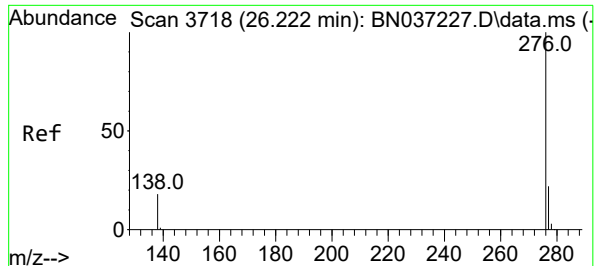
Lab File: BN037231.D

Acq: 13 Jun 2025 17:11



Tgt Ion:	278	Resp:	51648
Ion Ratio	Lower	Upper	
278	100		
139	18.1	17.8	26.6
279	24.0	31.3	46.9#





#41

Benzo(g,h,i)perylene

Concen: 5.204 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037231.D

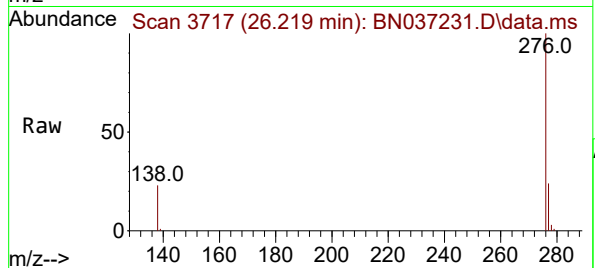
Acq: 13 Jun 2025 17:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



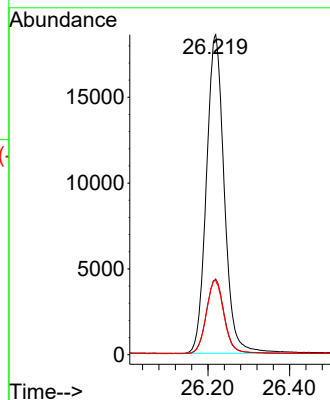
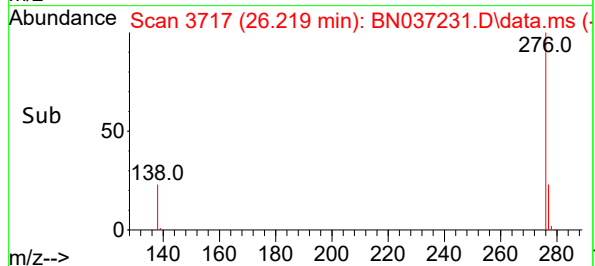
Tgt Ion:276 Resp: 56339

Ion Ratio Lower Upper

276 100

277 23.7 22.0 33.0

138 23.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037232.D
 Acq On : 13 Jun 2025 17:47
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

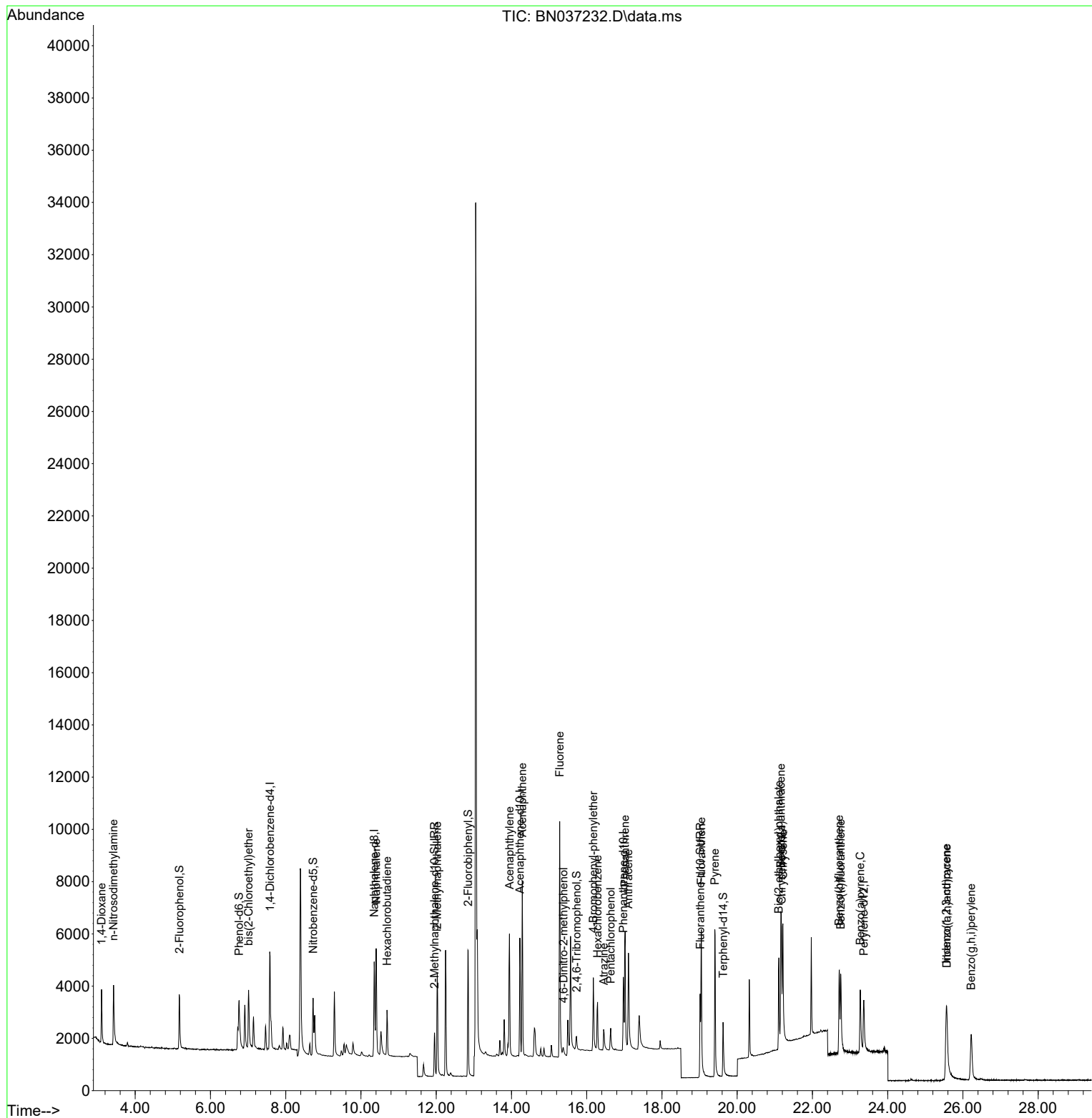
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1986	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	4902	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	2552	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4515	0.400	ng	0.00
29) Chrysene-d12	21.180	240	3230	0.400	ng	0.00
35) Perylene-d12	23.366	264	3076	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1716	0.352	ng	0.00
5) Phenol-d6	6.759	99	1849	0.360	ng	0.00
8) Nitrobenzene-d5	8.728	82	1988	0.410	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2615	0.398	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	327	0.308	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	4427	0.413	ng	0.00
27) Fluoranthene-d10	19.017	212	4358	0.369	ng	0.00
31) Terphenyl-d14	19.625	244	3044	0.417	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1095	0.402	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.422	42	2259	0.364	ng	# 91
6) bis(2-Chloroethyl)ether	7.012	93	2110	0.458	ng	89
9) Naphthalene	10.404	128	5483	0.386	ng	97
10) Hexachlorobutadiene	10.693	225	1319	0.382	ng	# 97
12) 2-Methylnaphthalene	12.026	142	3073	0.356	ng	99
16) Acenaphthylene	13.946	152	5109	0.409	ng	98
17) Acenaphthene	14.288	154	3050	0.378	ng	99
18) Fluorene	15.282	166	3826	0.369	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	326	0.392	ng	92
21) 4-Bromophenyl-phenylether	16.177	248	1082	0.368	ng	97
22) Hexachlorobenzene	16.289	284	1296	0.380	ng	98
23) Atrazine	16.450	200	1004	0.383	ng	89
24) Pentachlorophenol	16.636	266	540	0.323	ng	95
25) Phenanthrene	17.021	178	5458	0.381	ng	99
26) Anthracene	17.108	178	4934	0.376	ng	100
28) Fluoranthene	19.045	202	5935	0.354	ng	98
30) Pyrene	19.407	202	5948	0.392	ng	100
32) Benzo(a)anthracene	21.162	228	4183	0.384	ng	99
33) Chrysene	21.215	228	5302	0.390	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	3027	0.373	ng	100
36) Indeno(1,2,3-cd)pyrene	25.558	276	4825	0.389	ng	99
37) Benzo(b)fluoranthene	22.711	252	4122	0.366	ng	96
38) Benzo(k)fluoranthene	22.752	252	4721	0.363	ng	98
39) Benzo(a)pyrene	23.272	252	4086	0.404	ng	# 93
40) Dibenzo(a,h)anthracene	25.573	278	3443	0.365	ng	94
41) Benzo(g,h,i)perylene	26.219	276	4068	0.354	ng	97

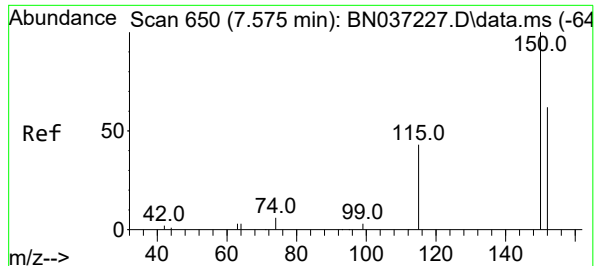
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

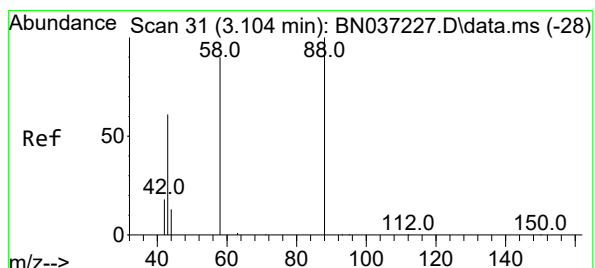
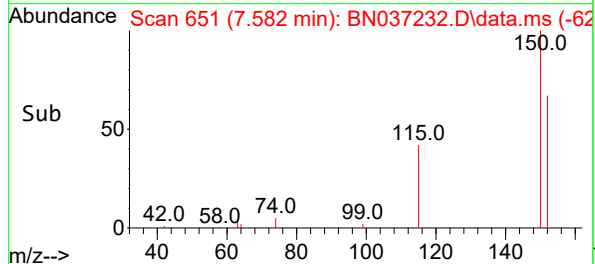
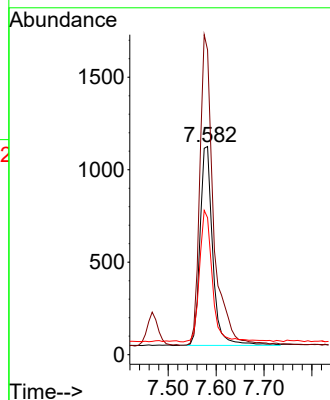
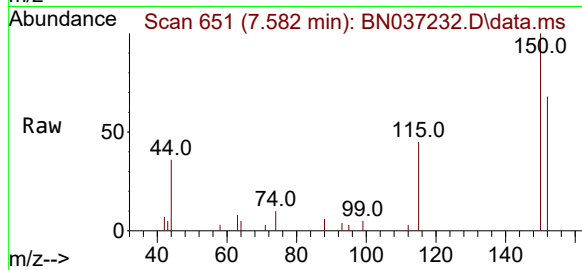




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

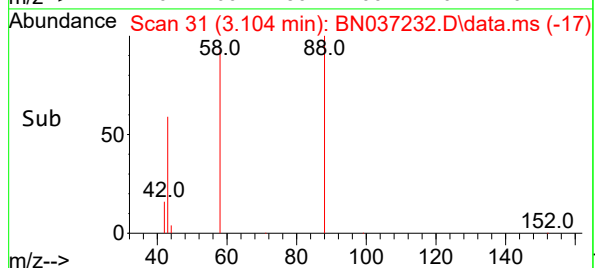
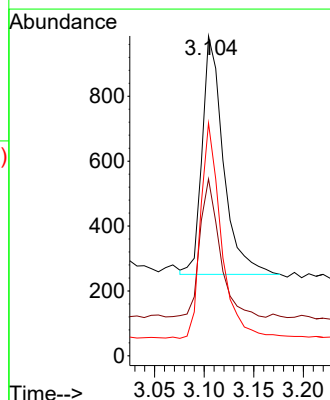
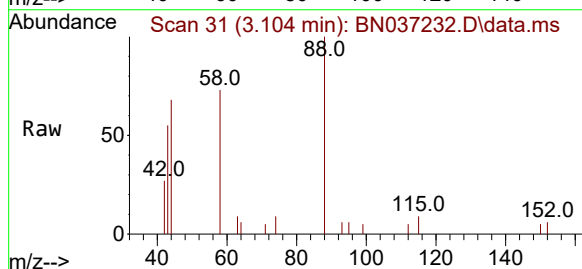
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

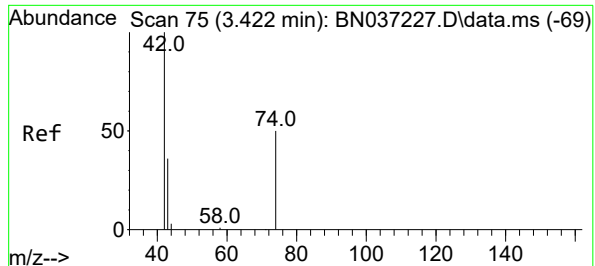
Tgt Ion:152 Resp: 1986
Ion Ratio Lower Upper
152 100
150 146.5 125.2 187.8
115 65.8 58.4 87.6



#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 88 Resp: 1095
Ion Ratio Lower Upper
88 100
43 54.6 52.6 79.0
58 86.8 73.5 110.3

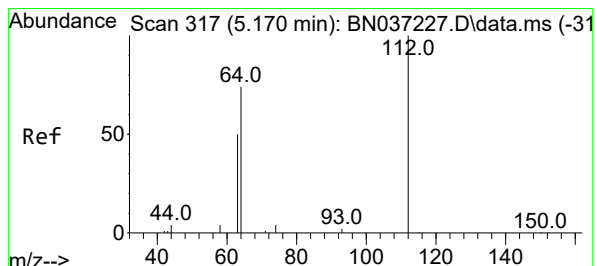
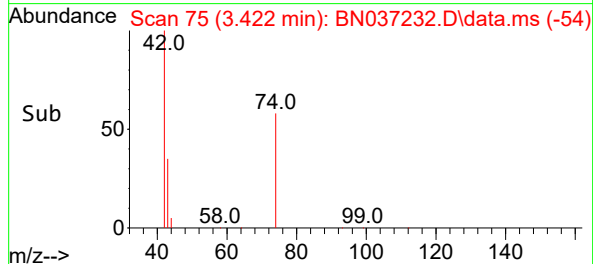
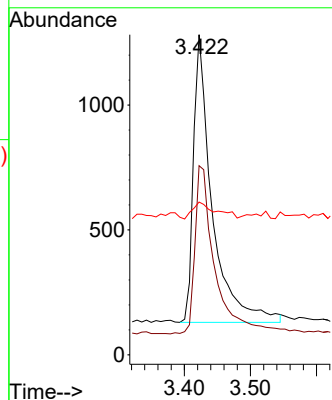
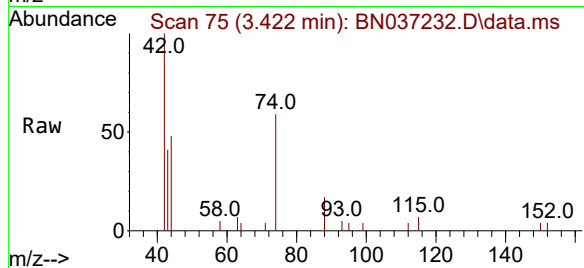




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

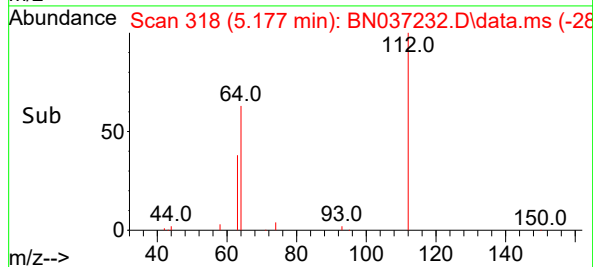
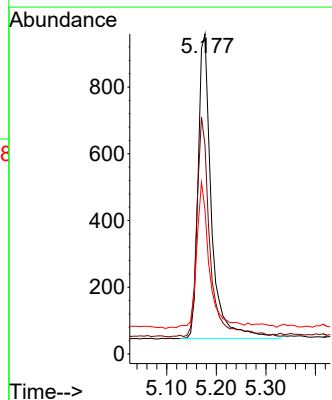
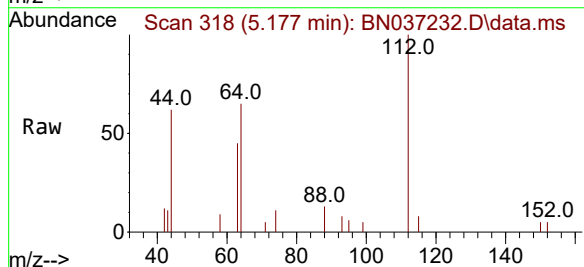
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

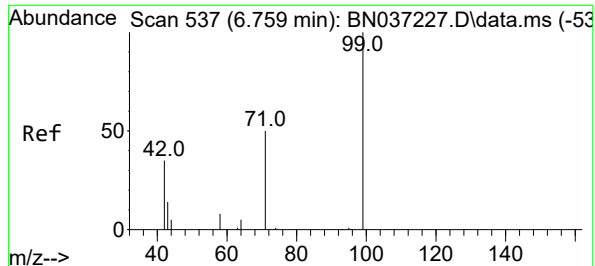
Tgt Ion: 42 Resp: 2259
Ion Ratio Lower Upper
42 100
74 62.0 44.6 66.8
44 7.5 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion: 112 Resp: 1716
Ion Ratio Lower Upper
112 100
64 70.6 57.2 85.8
63 45.6 39.8 59.6

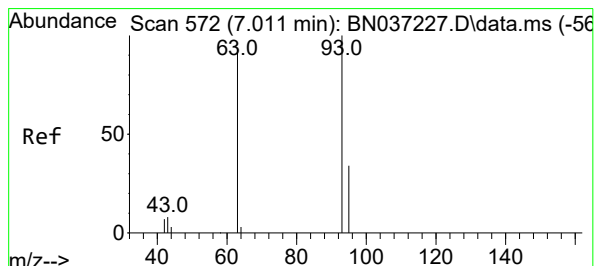
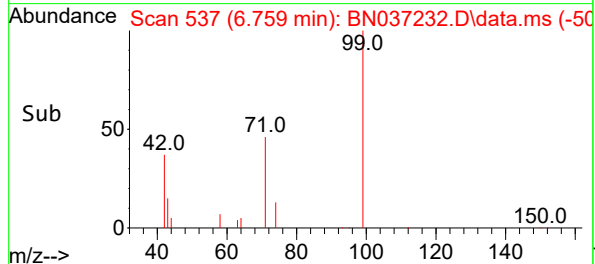
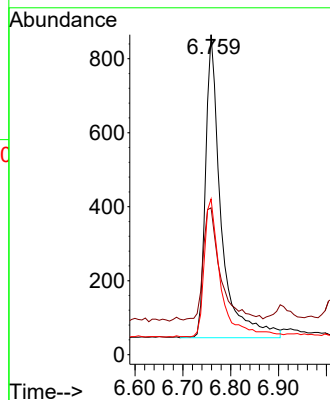
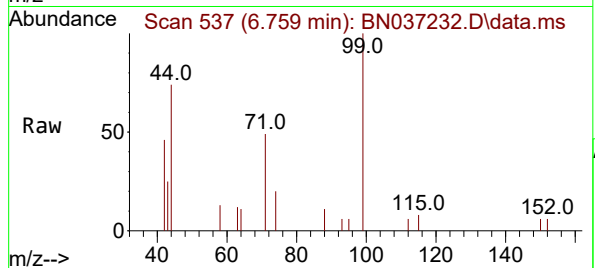




#5
Phenol-d6
Concen: 0.360 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

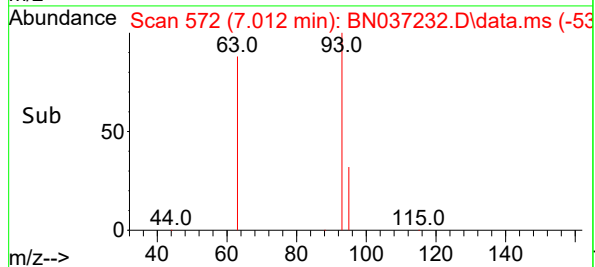
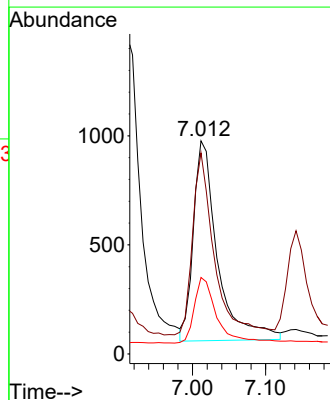
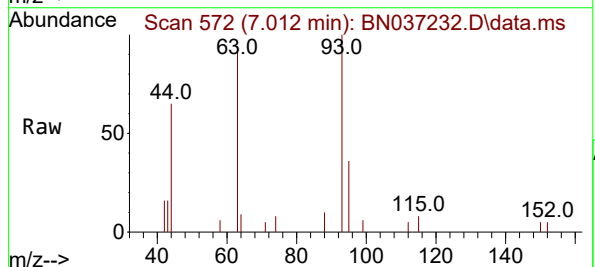
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

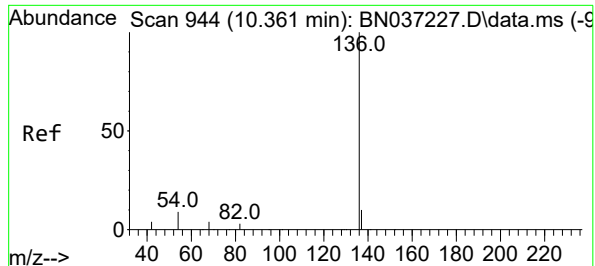
Tgt Ion:	99	Resp:	1849
Ion	Ratio	Lower	Upper
99	100		
42	40.9	36.2	54.4
71	48.2	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.458 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:	93	Resp:	2110
Ion	Ratio	Lower	Upper
93	100		
63	81.0	75.2	112.8
95	31.9	28.3	42.5

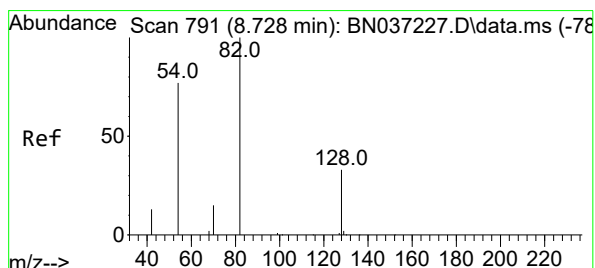
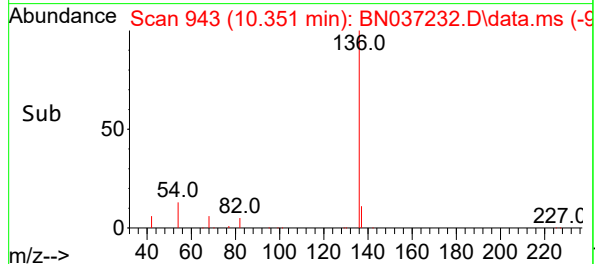
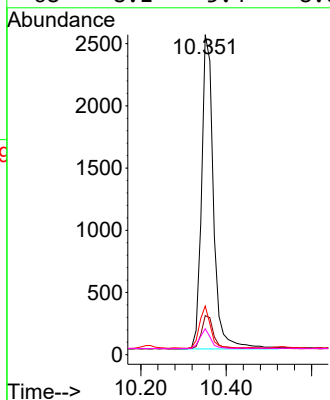
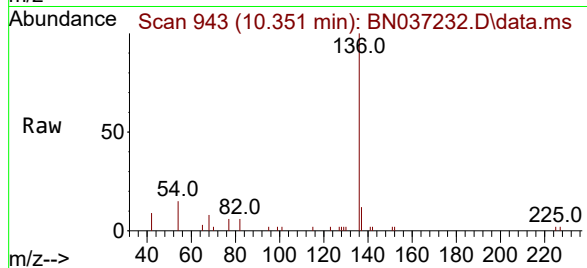




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

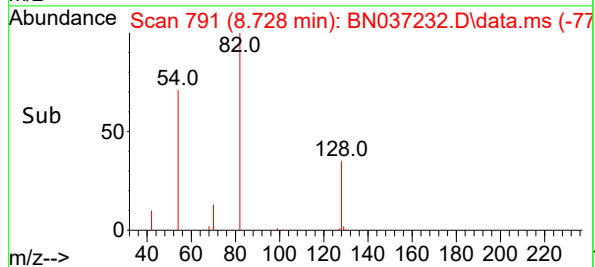
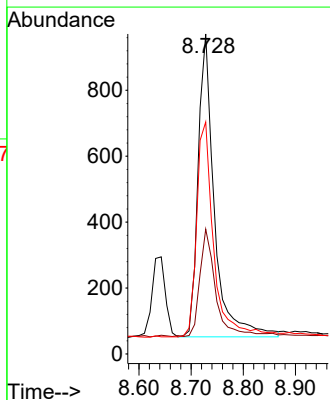
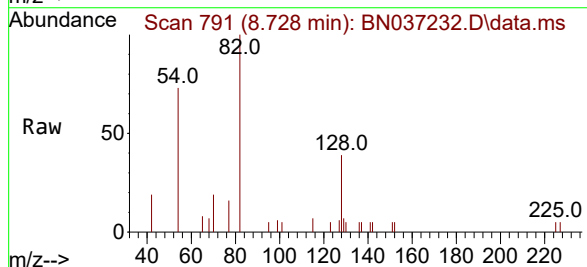
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

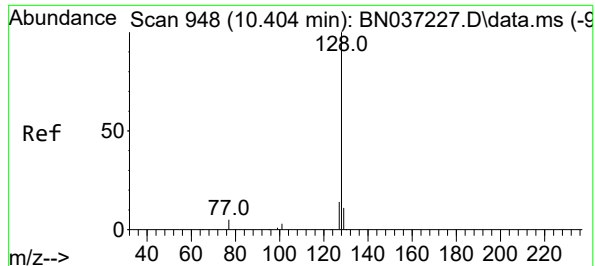
Tgt Ion:	136	Resp:	4902
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.6	15.8
54	15.2	9.2	13.8#
68	8.1	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.410 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:	82	Resp:	1988
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	72.5	63.3	94.9

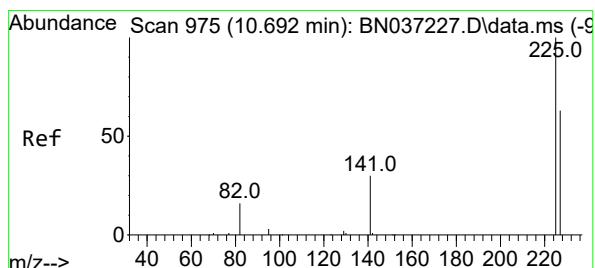
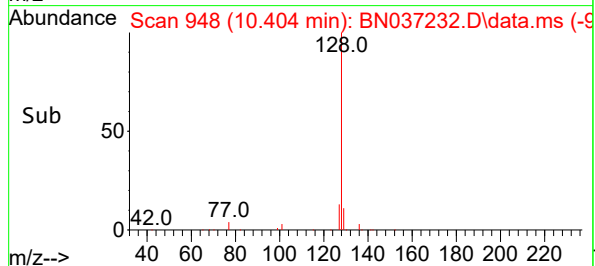
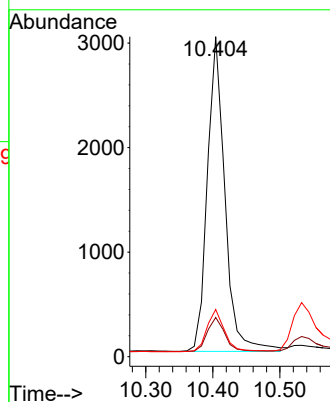
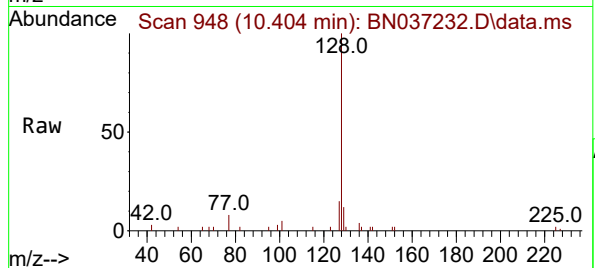




#9
Naphthalene
Concen: 0.386 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

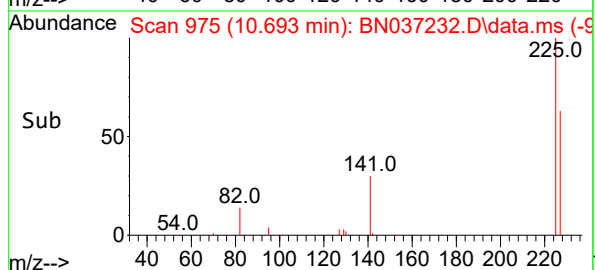
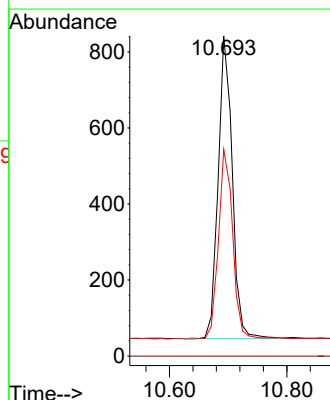
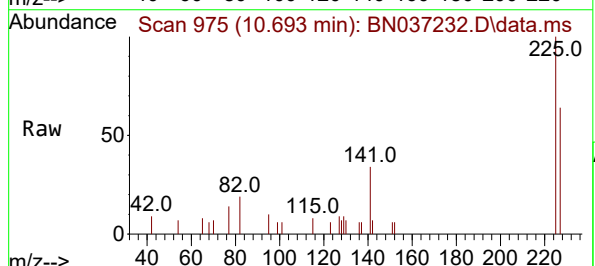
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

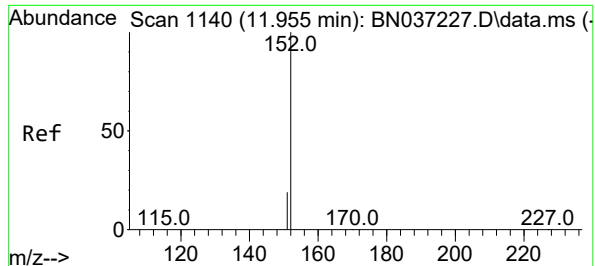
Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.3	10.7	16.1
127	14.7	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.382 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	49.2	73.8

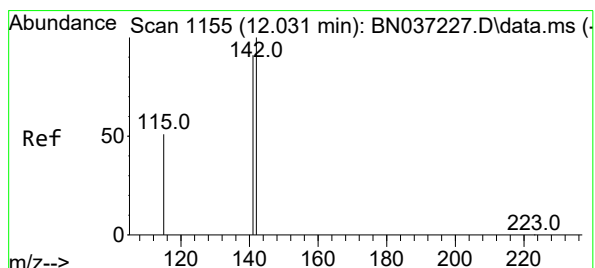
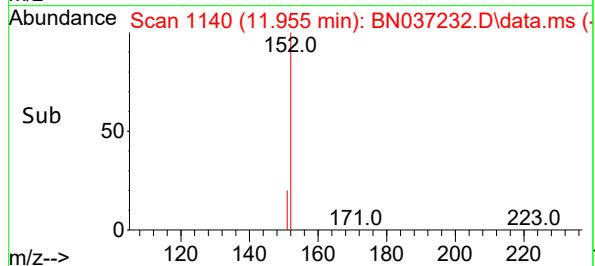
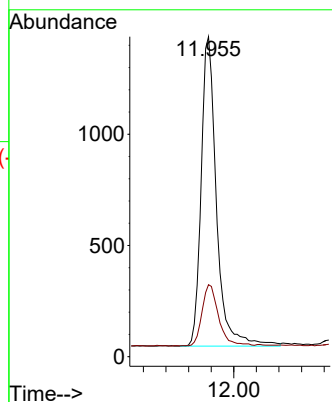
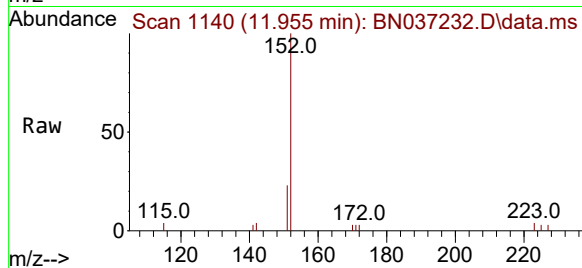




#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

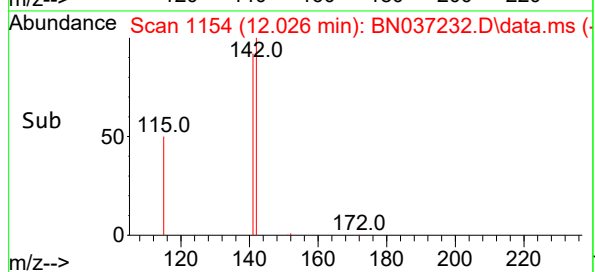
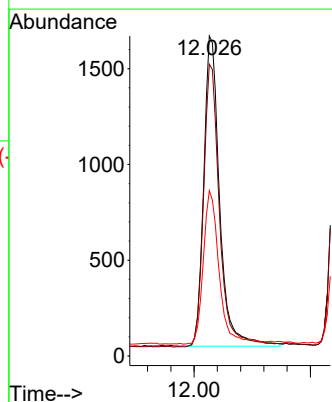
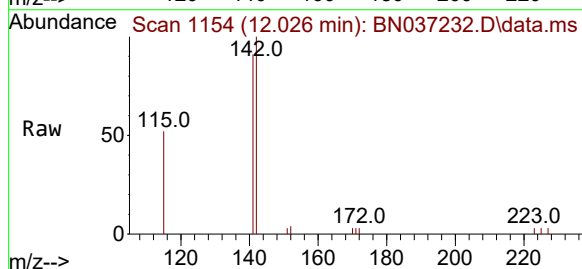
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

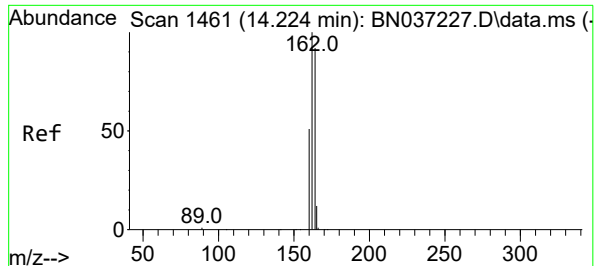
Tgt Ion:152 Resp: 2615
Ion Ratio Lower Upper
152 100
151 21.3 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.356 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:142 Resp: 3073
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.6
115 51.6 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

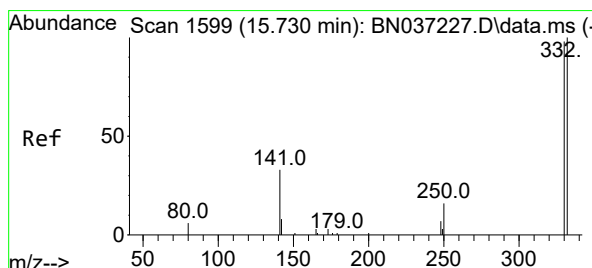
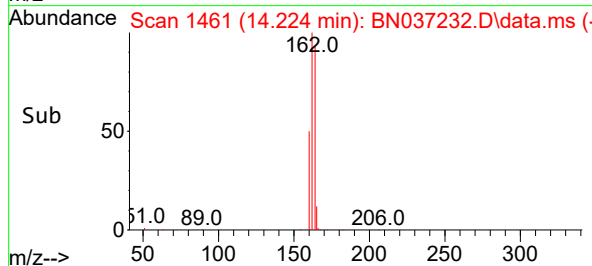
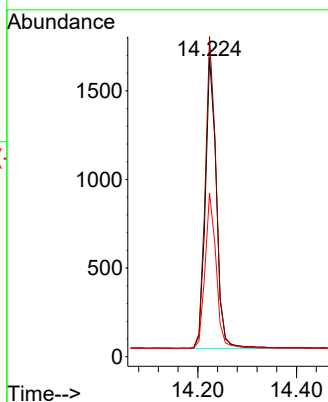
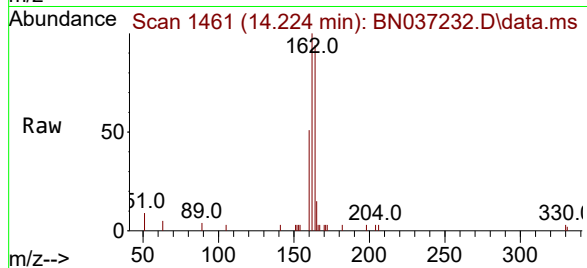
Tgt Ion:164 Resp: 2552

Ion Ratio Lower Upper

164 100

162 106.8 86.7 130.1

160 54.6 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.308 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

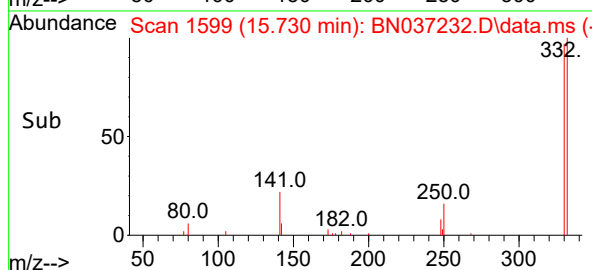
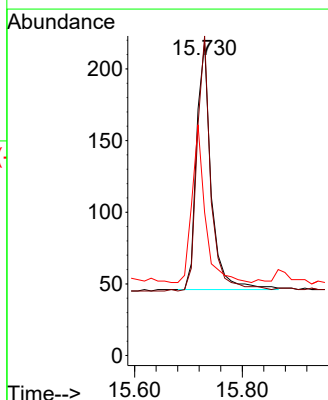
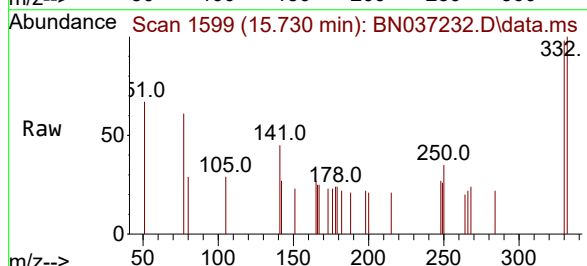
Tgt Ion:330 Resp: 327

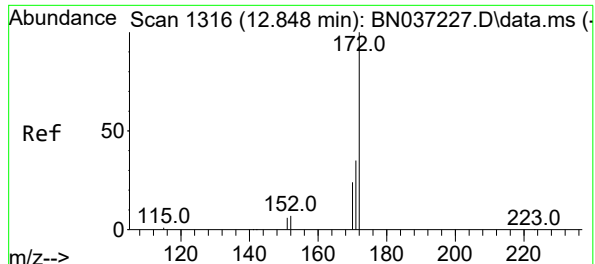
Ion Ratio Lower Upper

330 100

332 97.6 74.9 112.3

141 57.2 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.413 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

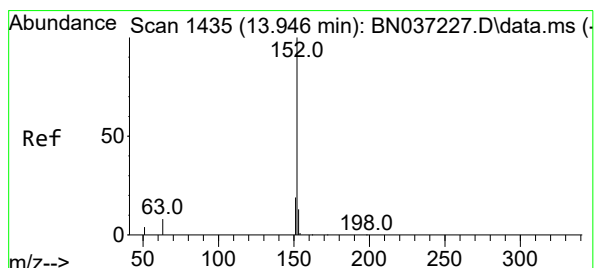
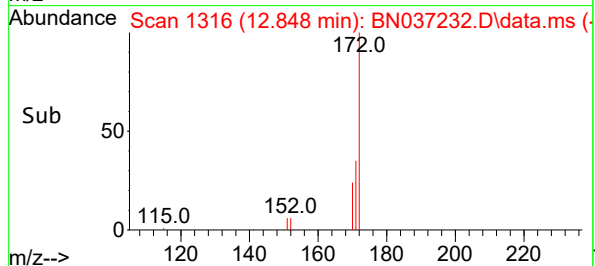
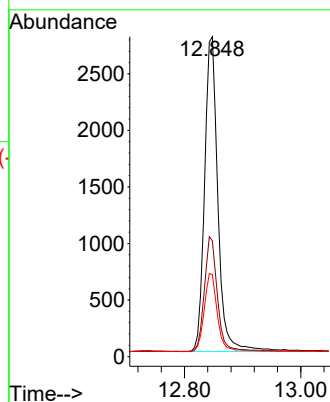
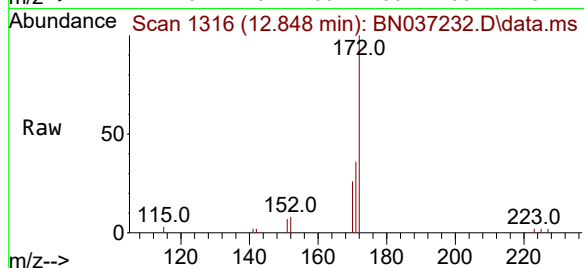
Tgt Ion:172 Resp: 4427

Ion Ratio Lower Upper

172 100

171 36.2 29.8 44.8

170 25.7 21.1 31.7



#16

Acenaphthylene

Concen: 0.409 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

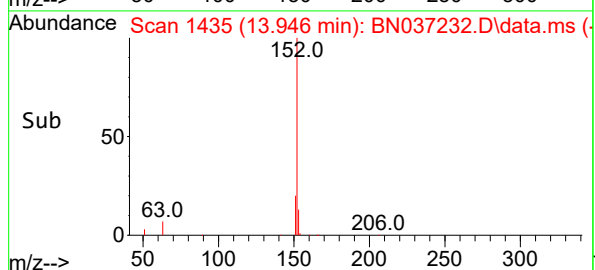
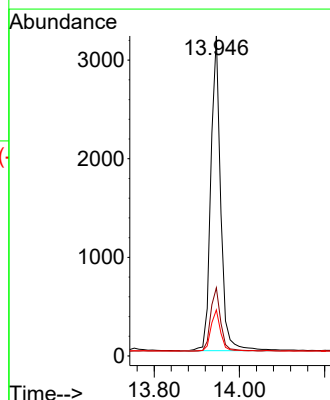
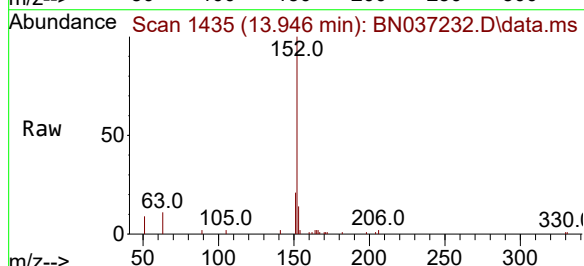
Tgt Ion:152 Resp: 5109

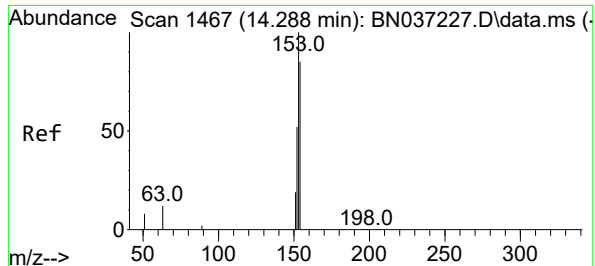
Ion Ratio Lower Upper

152 100

151 20.7 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 0.378 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

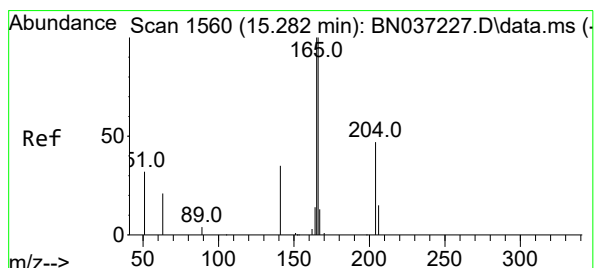
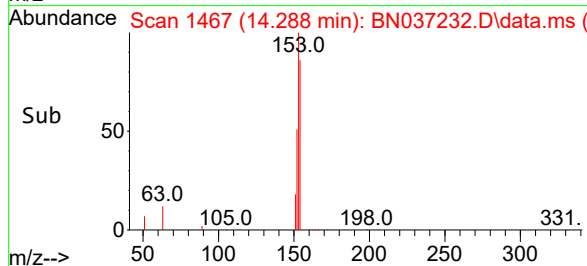
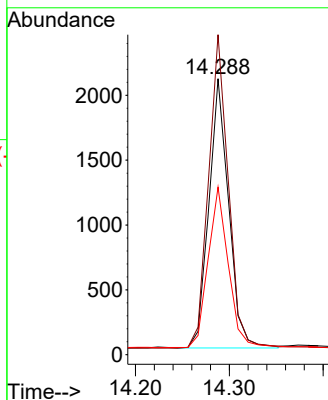
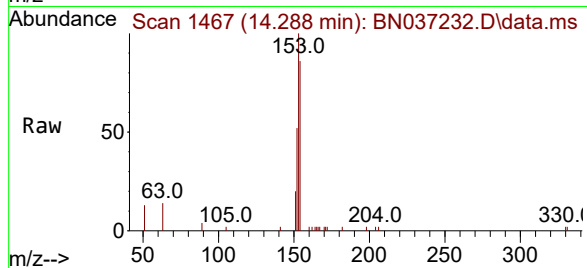
Tgt Ion:154 Resp: 3050

Ion Ratio Lower Upper

154 100

153 117.3 94.6 141.8

152 61.5 49.6 74.4



#18

Fluorene

Concen: 0.369 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

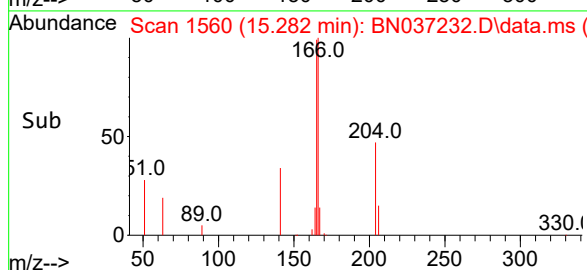
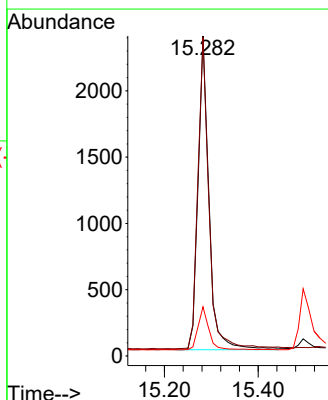
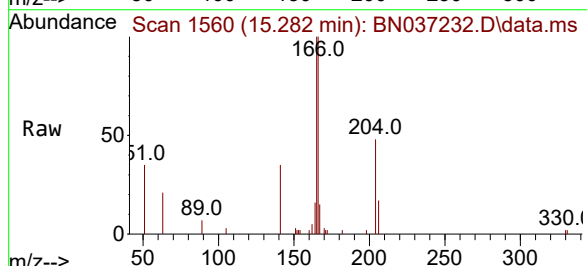
Tgt Ion:166 Resp: 3826

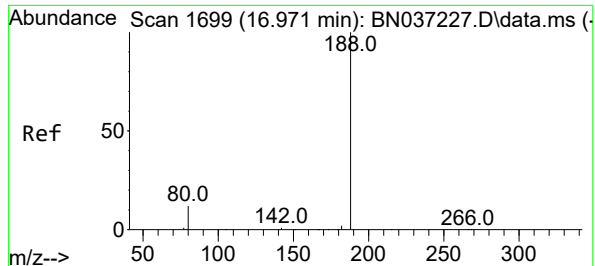
Ion Ratio Lower Upper

166 100

165 99.5 79.8 119.6

167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

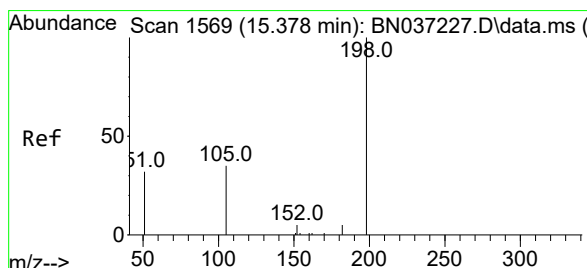
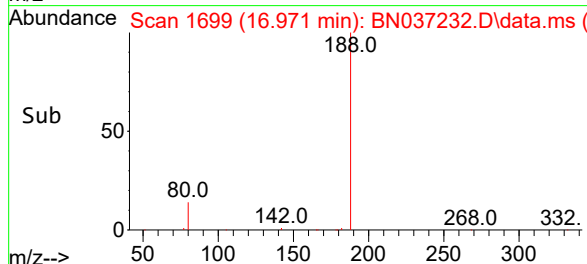
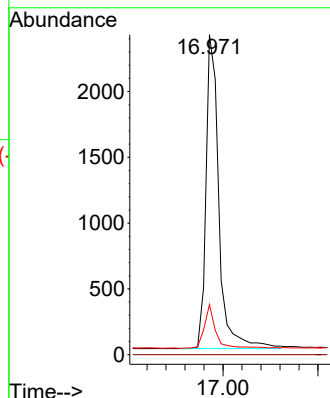
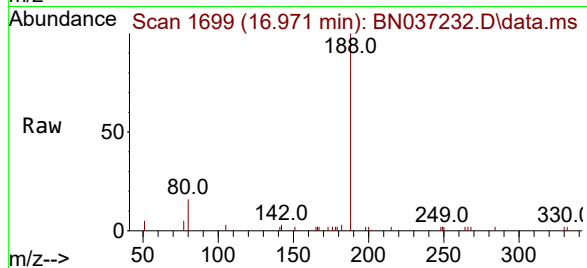
Tgt Ion:188 Resp: 4515

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

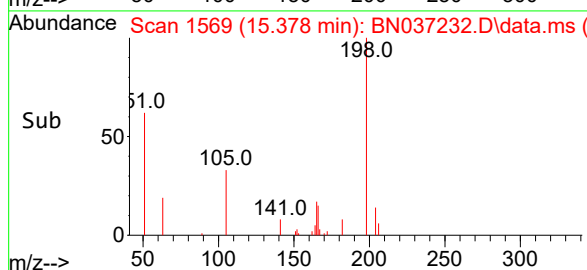
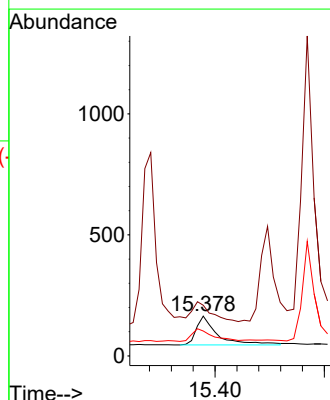
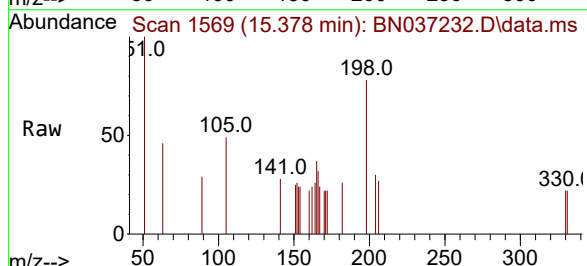
Tgt Ion:198 Resp: 326

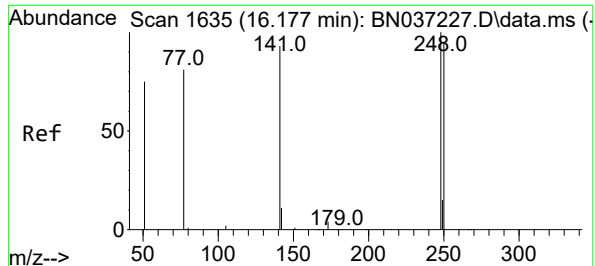
Ion Ratio Lower Upper

198 100

51 127.4 111.2 166.8

105 62.8 54.0 81.0

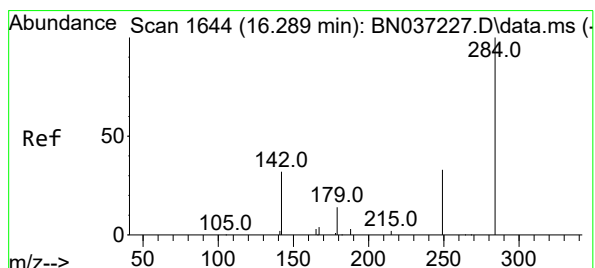
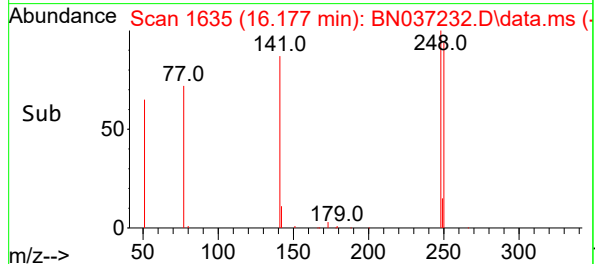
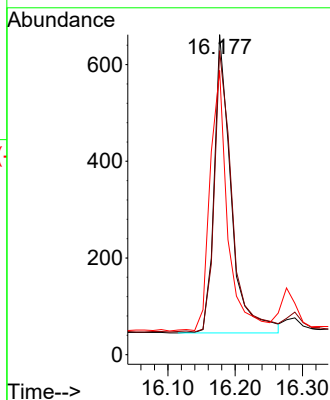
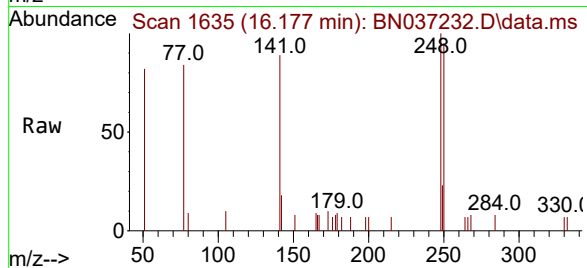




#21
4-Bromophenyl-phenylether
Concen: 0.368 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

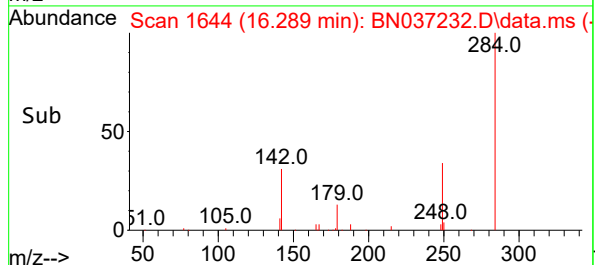
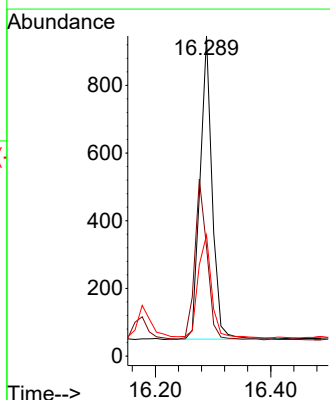
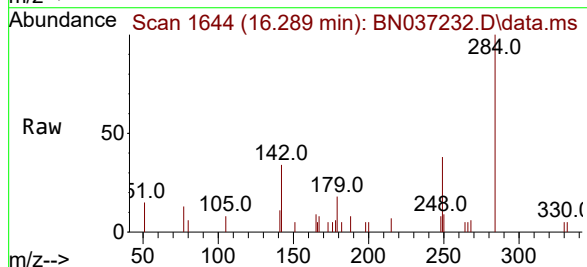
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

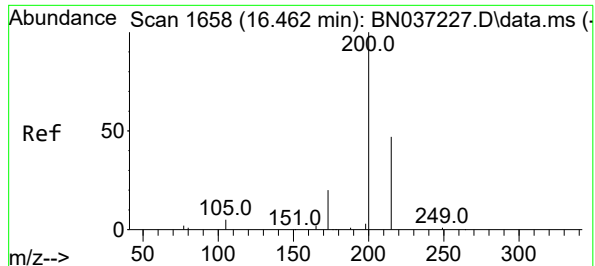
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.0	76.8	115.2
141	88.8	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	55.1	43.8	65.6
249	38.3	28.4	42.6

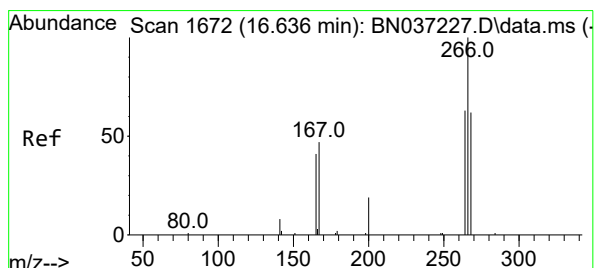
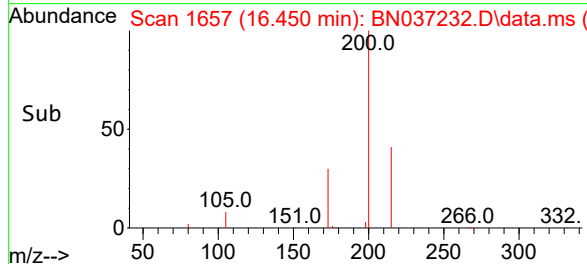
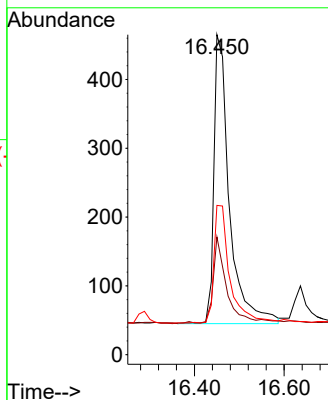
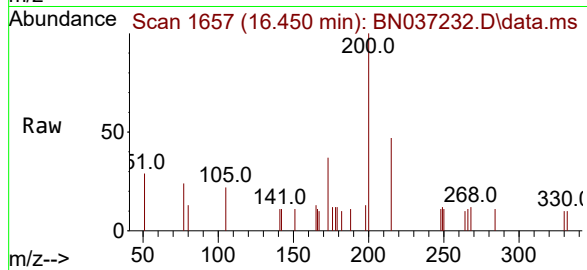




#23
Atrazine
Concen: 0.383 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

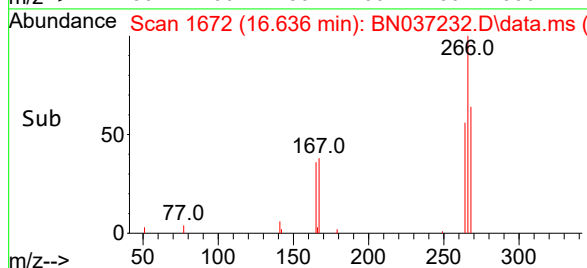
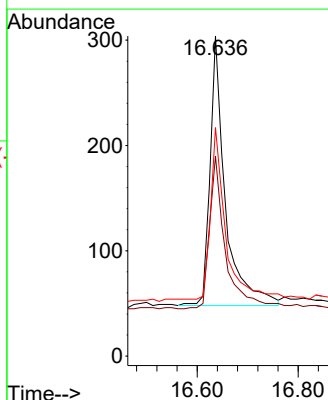
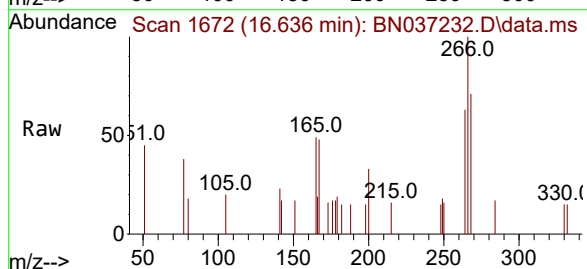
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

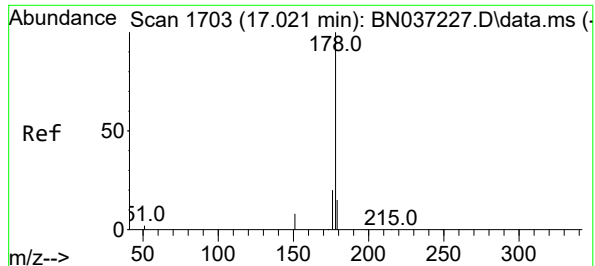
Tgt Ion:200 Resp: 1004
Ion Ratio Lower Upper
200 100
173 36.8 25.1 37.7
215 46.7 43.7 65.5



#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:266 Resp: 540
Ion Ratio Lower Upper
266 100
264 59.1 49.2 73.8
268 62.0 53.4 80.2

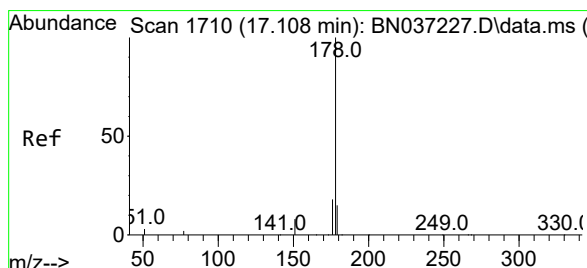
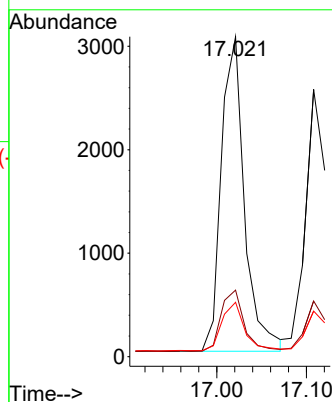
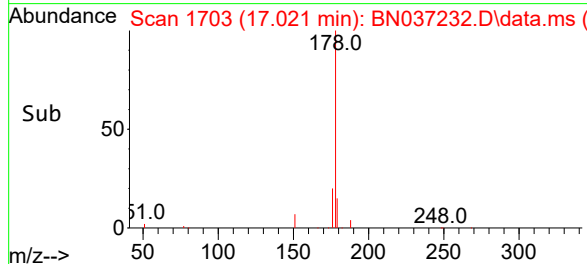
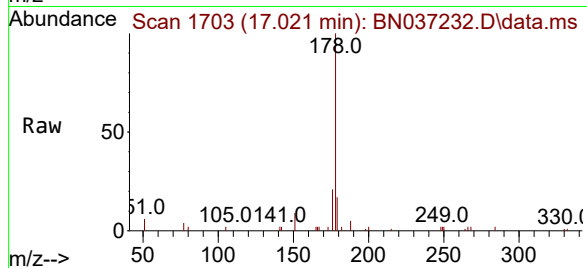




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

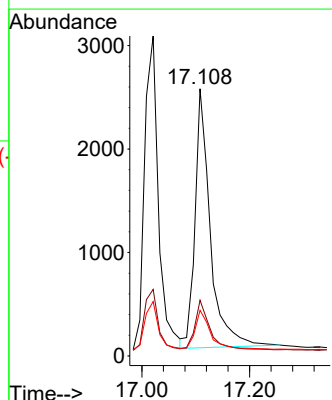
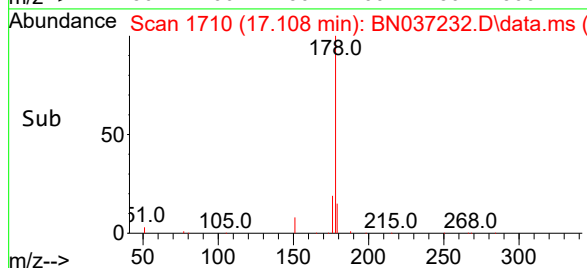
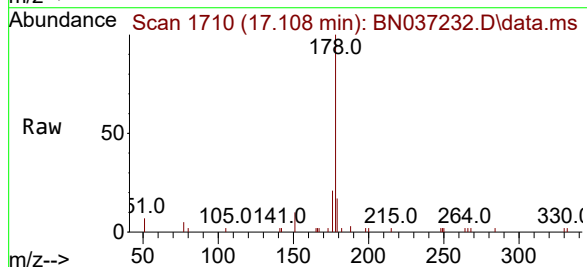
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

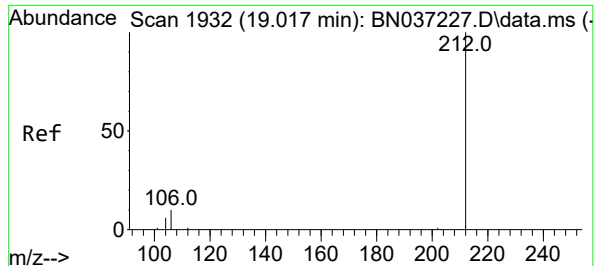
Tgt Ion:178 Resp: 5458
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 15.4 12.6 18.8



#26
Anthracene
Concen: 0.376 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:178 Resp: 4934
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.369 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

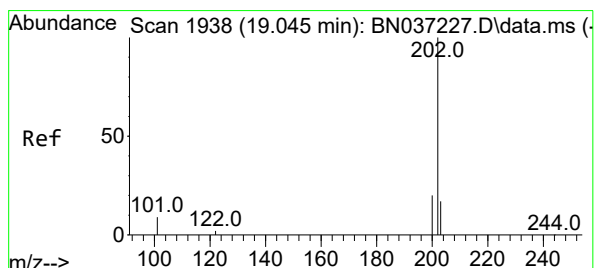
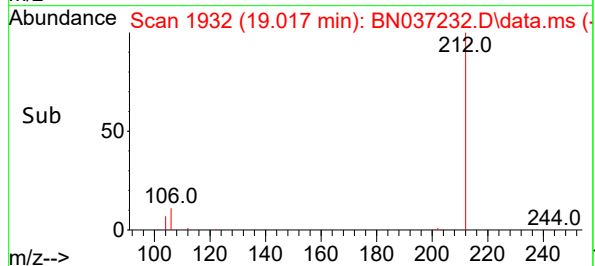
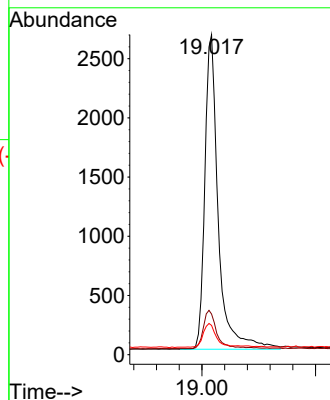
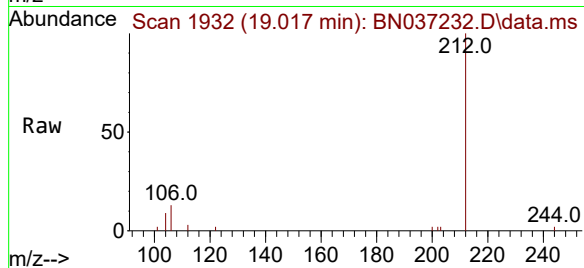
Tgt Ion:212 Resp: 4358

Ion Ratio Lower Upper

212 100

106 12.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 0.354 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

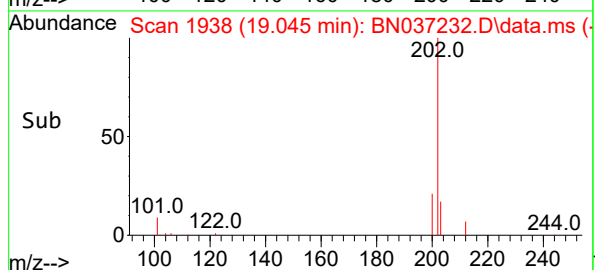
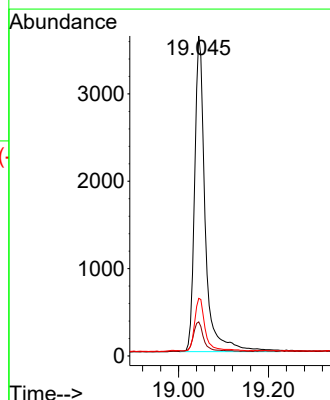
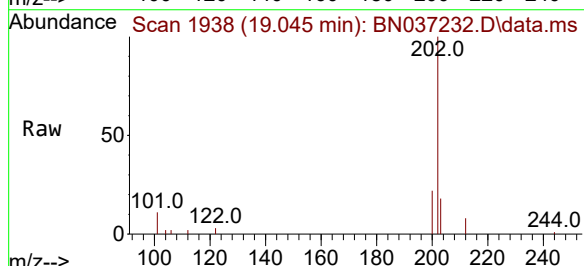
Tgt Ion:202 Resp: 5935

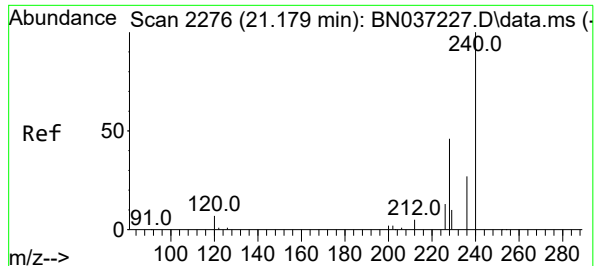
Ion Ratio Lower Upper

202 100

101 10.1 7.1 10.7

203 16.8 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

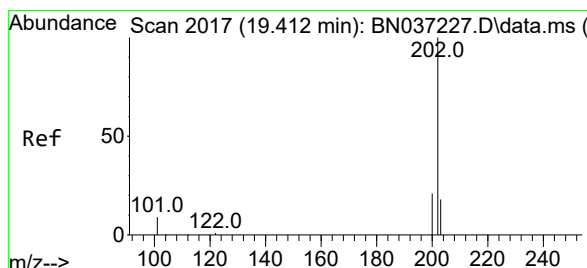
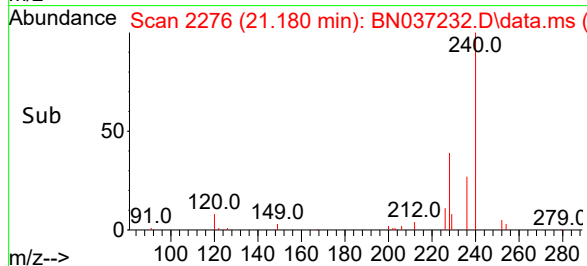
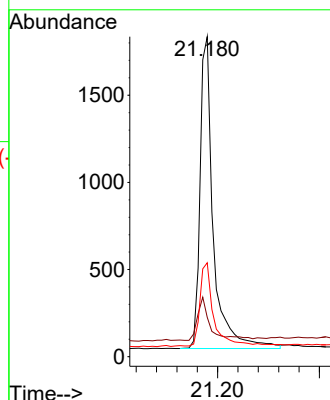
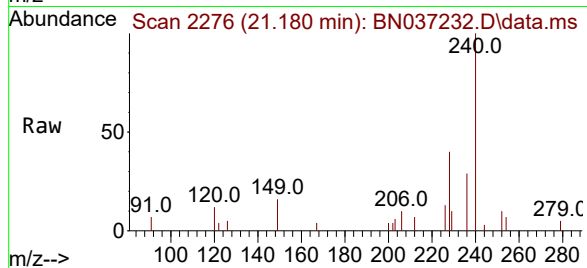
Tgt Ion:240 Resp: 3230

Ion Ratio Lower Upper

240 100

120 12.3 11.3 16.9

236 29.4 24.4 36.6



#30

Pyrene

Concen: 0.392 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

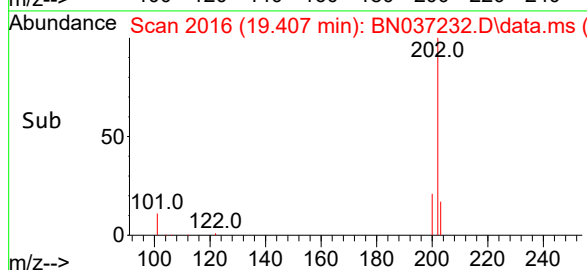
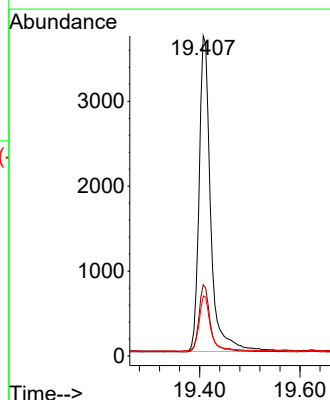
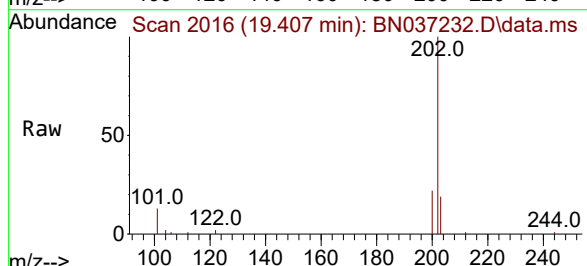
Tgt Ion:202 Resp: 5948

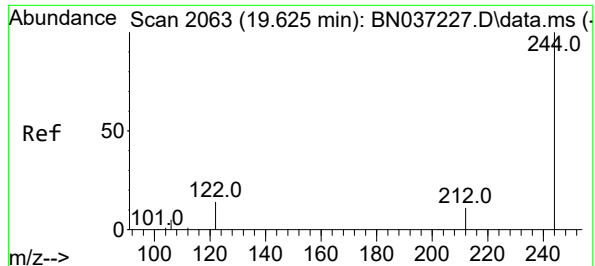
Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

203 17.7 14.3 21.5

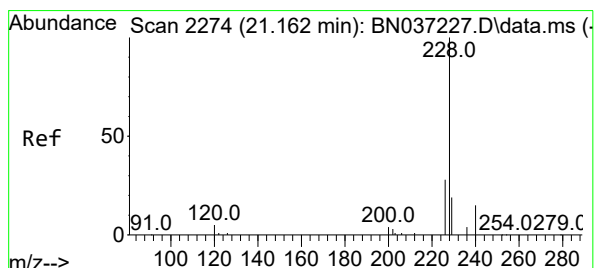
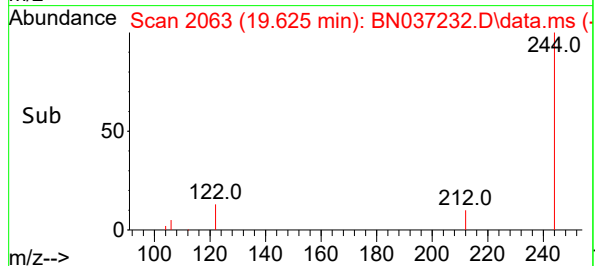
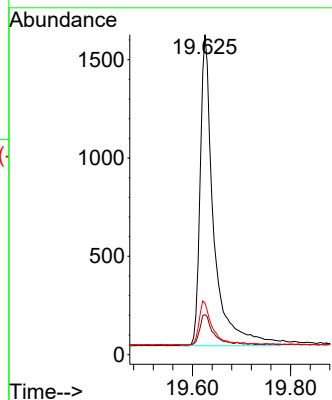
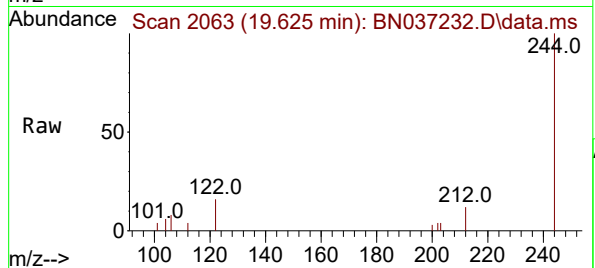




#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

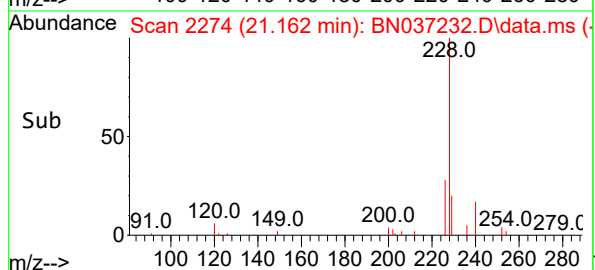
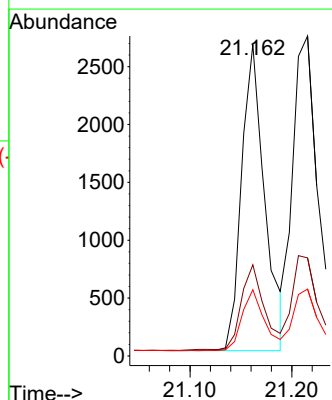
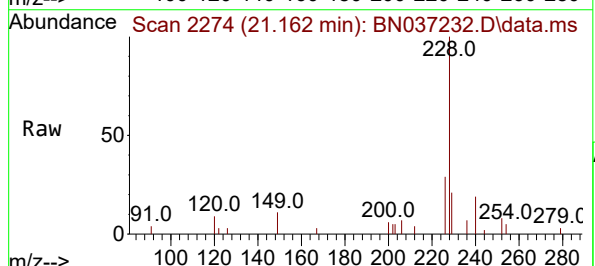
Instrument :
BNA_N
ClientSampleId :
ICVBN061325

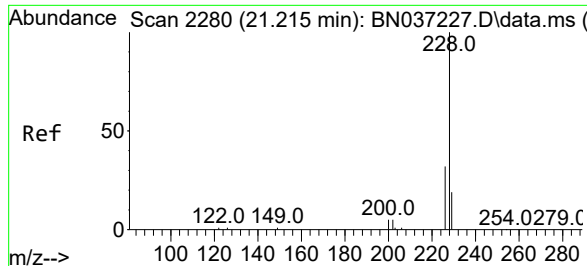
Tgt Ion:244 Resp: 3044
Ion Ratio Lower Upper
244 100
212 12.5 12.2 18.2
122 16.1 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.384 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037232.D
Acq: 13 Jun 2025 17:47

Tgt Ion:228 Resp: 4183
Ion Ratio Lower Upper
228 100
226 29.3 23.8 35.8
229 21.2 17.0 25.4





#33

Chrysene

Concen: 0.390 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

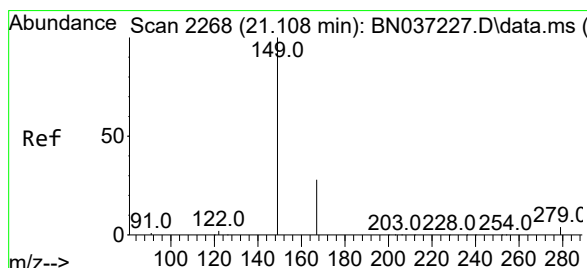
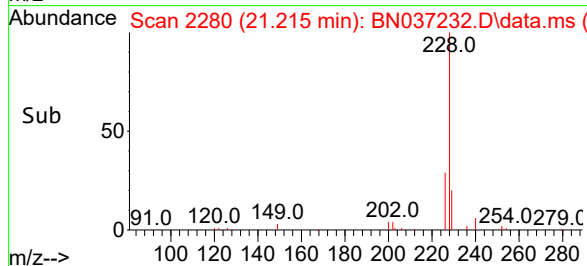
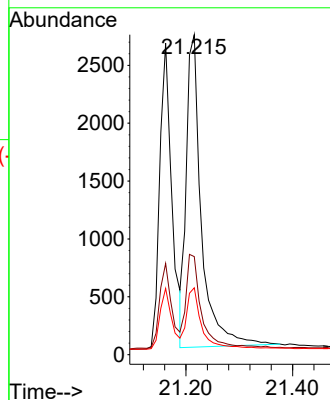
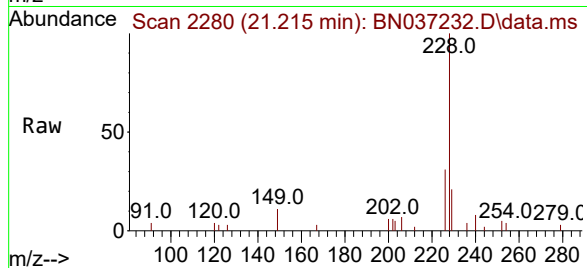
Tgt Ion:228 Resp: 5302

Ion Ratio Lower Upper

228 100

226 30.6 25.8 38.6

229 20.9 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.373 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

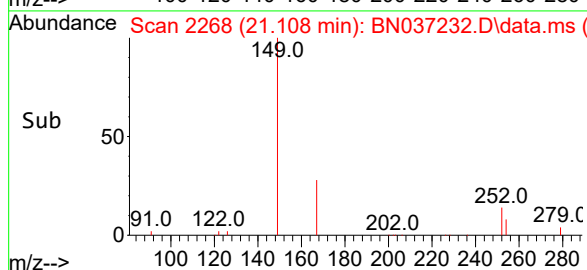
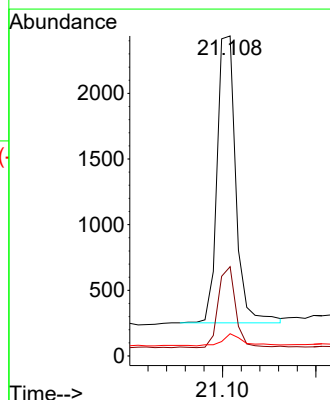
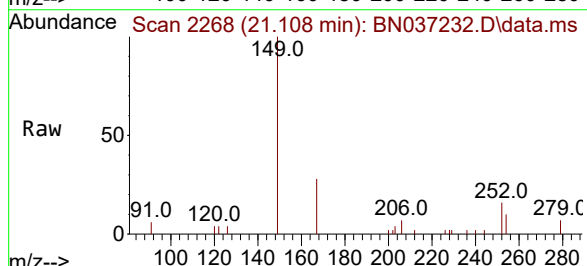
Tgt Ion:149 Resp: 3027

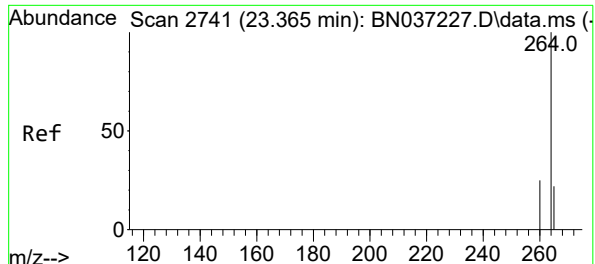
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

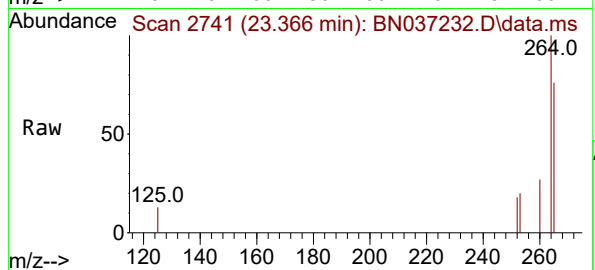
Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325



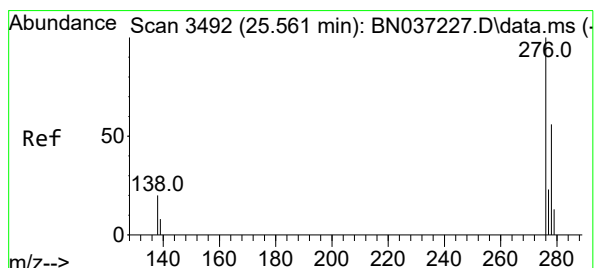
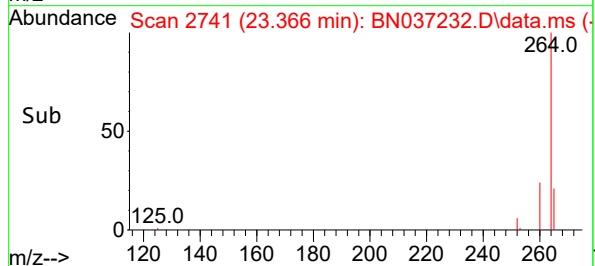
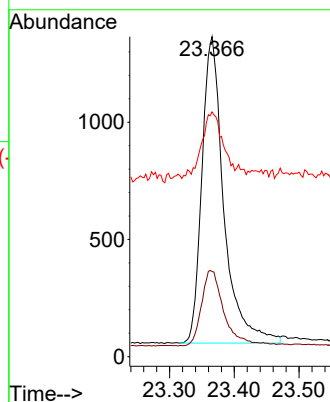
Tgt Ion:264 Resp: 3076

Ion Ratio Lower Upper

264 100

260 26.6 22.8 34.2

265 76.5 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.389 ng

RT: 25.558 min Scan# 3491

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

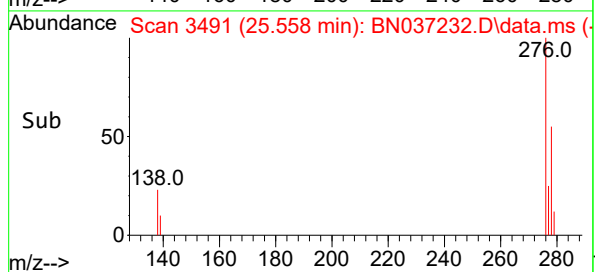
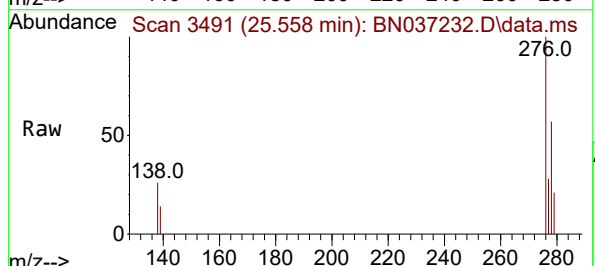
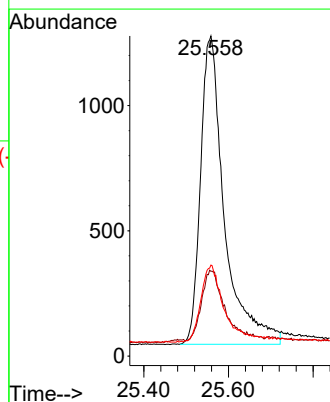
Tgt Ion:276 Resp: 4825

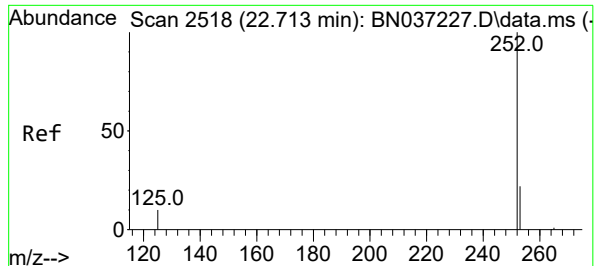
Ion Ratio Lower Upper

276 100

138 21.3 16.8 25.2

277 23.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

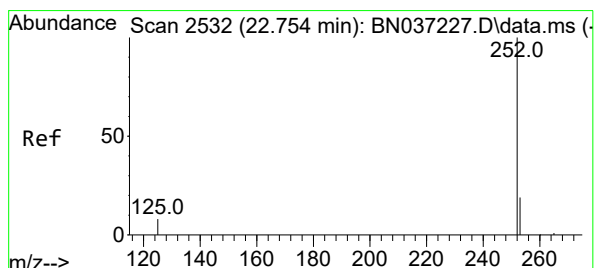
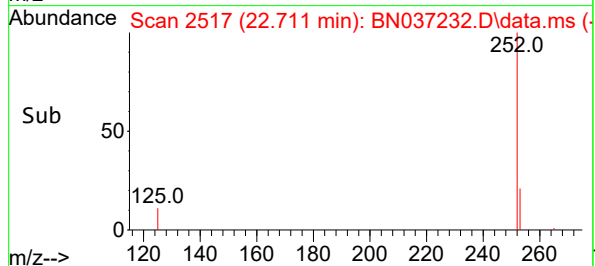
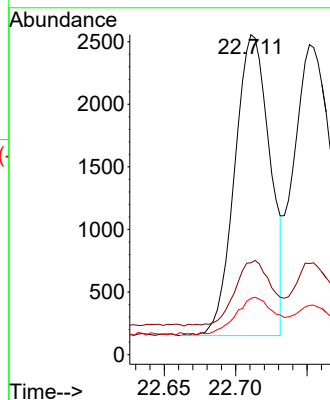
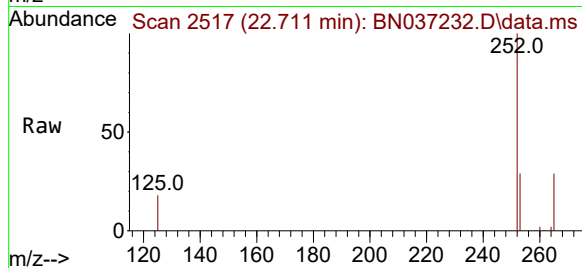
Tgt Ion:252 Resp: 4122

Ion Ratio Lower Upper

252 100

253 28.7 24.9 37.3

125 17.6 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.363 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

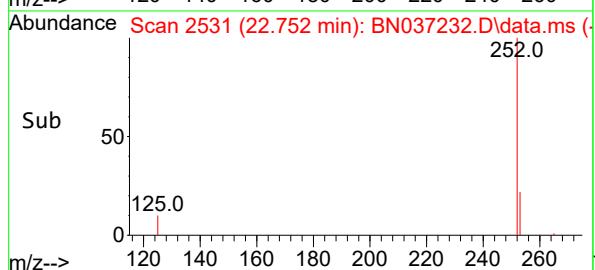
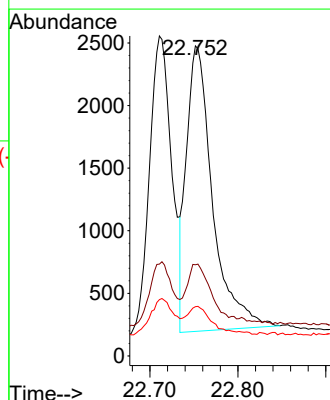
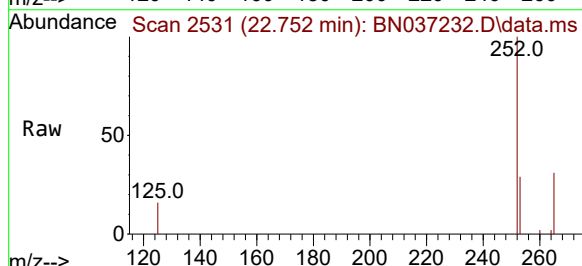
Tgt Ion:252 Resp: 4721

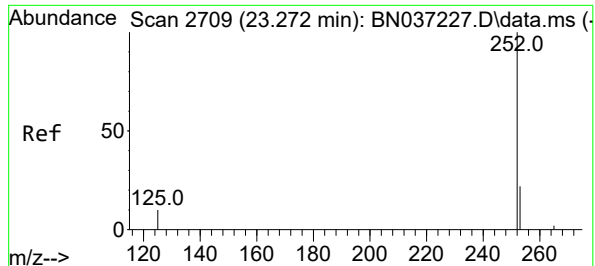
Ion Ratio Lower Upper

252 100

253 29.4 24.6 37.0

125 15.9 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.404 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325

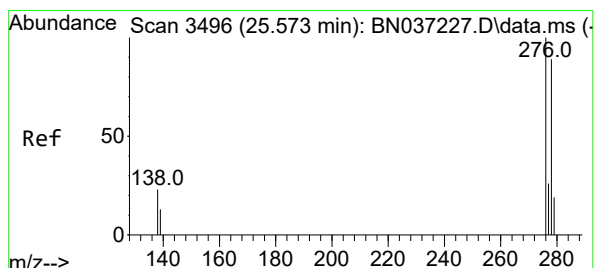
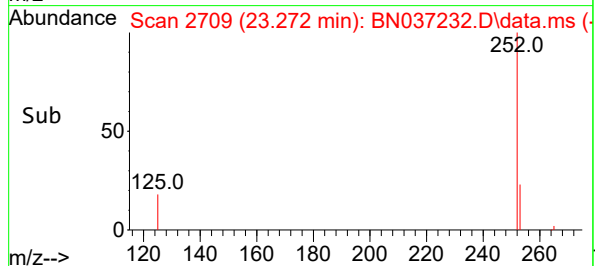
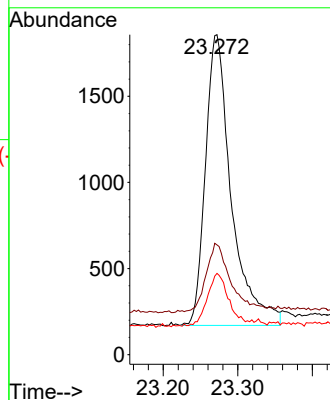
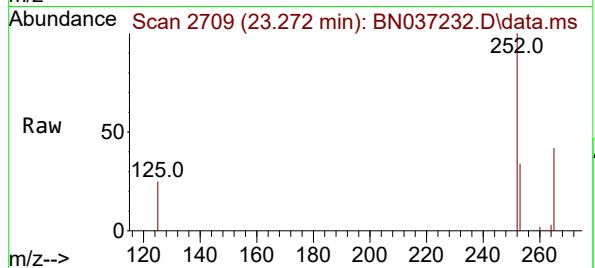
Tgt Ion:252 Resp: 4086

Ion Ratio Lower Upper

252 100

253 34.3 29.4 44.2

125 25.4 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

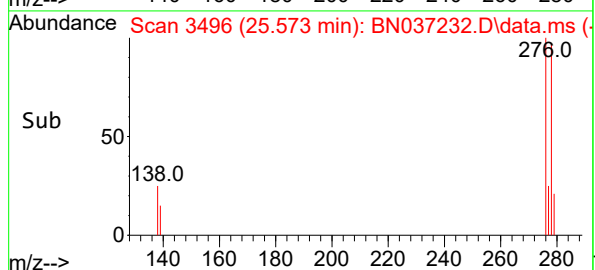
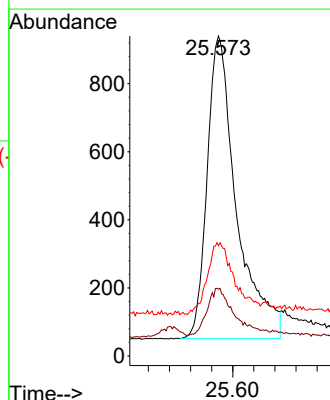
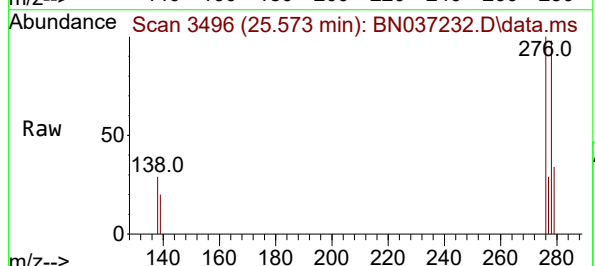
Tgt Ion:278 Resp: 3443

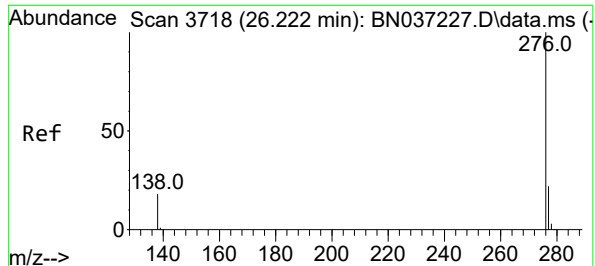
Ion Ratio Lower Upper

278 100

139 20.9 17.8 26.6

279 34.5 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.354 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037232.D

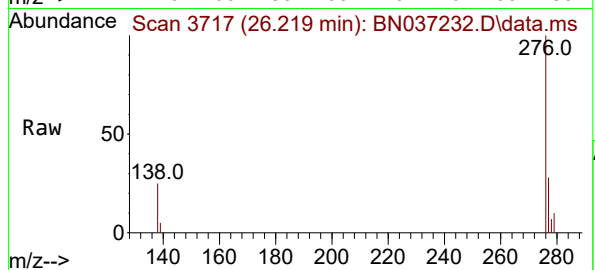
Acq: 13 Jun 2025 17:47

Instrument :

BNA_N

ClientSampleId :

ICVBN061325



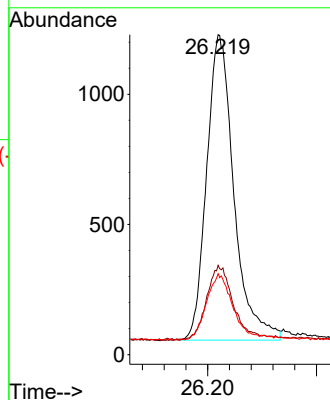
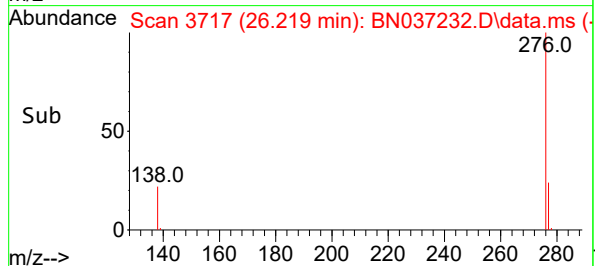
Tgt Ion:276 Resp: 4068

Ion Ratio Lower Upper

276 100

277 27.9 22.0 33.0

138 25.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037232.D
 Acq On : 13 Jun 2025 17:47
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	154#	0.00
2	1,4-Dioxane	0.549	0.551	-0.4	162#	0.00
3	n-Nitrosodimethylamine	1.250	1.137	9.0	137	0.00
4 S	2-Fluorophenol	0.982	0.864	12.0	142	0.00
5 S	Phenol-d6	1.035	0.931	10.0	149	0.00
6	bis(2-Chloroethyl)ether	0.927	1.062	-14.6	188#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	153#	-0.01
8 S	Nitrobenzene-d5	0.395	0.406	-2.8	161#	0.00
9	Naphthalene	1.158	1.119	3.4	151#	0.00
10	Hexachlorobutadiene	0.282	0.269	4.6	136	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.533	0.7	146	0.00
12	2-Methylnaphthalene	0.704	0.627	10.9	136	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	147	0.00
14 S	2,4,6-Tribromophenol	0.166	0.128	22.9	110	0.00
15 S	2-Fluorobiphenyl	1.681	1.735	-3.2	150	0.00
16	Acenaphthylene	1.960	2.002	-2.1	157#	0.00
17	Acenaphthene	1.265	1.195	5.5	142	0.00
18	Fluorene	1.625	1.499	7.8	138	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.072	21.7	155#	0.00
21	4-Bromophenyl-phenylether	0.261	0.240	8.0	139	0.00
22	Hexachlorobenzene	0.302	0.287	5.0	130	0.00
23	Atrazine	0.232	0.222	4.3	141	-0.01
24	Pentachlorophenol	0.148	0.120	18.9	136	0.00
25	Phenanthrene	1.269	1.209	4.7	144	0.00
26	Anthracene	1.161	1.093	5.9	143	0.00
27 SURR	Fluoranthene-d10	1.046	0.965	7.7	130	0.00
28	Fluoranthene	1.485	1.315	11.4	132	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	141	0.00
30	Pyrene	1.881	1.841	2.1	133	0.00
31 S	Terphenyl-d14	0.904	0.942	-4.2	141	0.00
32	Benzo(a)anthracene	1.351	1.295	4.1	149	0.00
33	Chrysene	1.683	1.641	2.5	137	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.937	6.9	129	0.00
35 I	Perylene-d12	1.000	1.000	0.0	143	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.569	2.7	149	0.00
37	Benzo(b)fluoranthene	1.463	1.340	8.4	139	0.00
38	Benzo(k)fluoranthene	1.689	1.535	9.1	135	0.00
39 C	Benzo(a)pyrene	1.316	1.328	-0.9	154#	0.00
40	Dibenzo(a,h)anthracene	1.227	1.119	8.8	153#	0.00
41	Benzo(g,h,i)perylene	1.496	1.322	11.6	131	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037232.D
Acq On : 13 Jun 2025 17:47
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061325

Quant Time: Jun 13 18:44:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	154	0.00
2	1,4-Dioxane	0.400	0.402	-0.5	162	0.00
3	n-Nitrosodimethylamine	0.400	0.364	9.0	137	0.00
4 S	2-Fluorophenol	0.400	0.352	12.0	142	0.00
5 S	Phenol-d6	0.400	0.360	10.0	149	0.00
6	bis(2-Chloroethyl)ether	0.400	0.458	-14.5	188	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	153	-0.01
8 S	Nitrobenzene-d5	0.400	0.410	-2.5	161	0.00
9	Naphthalene	0.400	0.386	3.5	151	0.00
10	Hexachlorobutadiene	0.400	0.382	4.5	136	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.398	0.5	146	0.00
12	2-Methylnaphthalene	0.400	0.356	11.0	136	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	147	0.00
14 S	2,4,6-Tribromophenol	0.400	0.308	23.0	110	0.00
15 S	2-Fluorobiphenyl	0.400	0.413	-3.2	150	0.00
16	Acenaphthylene	0.400	0.409	-2.2	157	0.00
17	Acenaphthene	0.400	0.378	5.5	142	0.00
18	Fluorene	0.400	0.369	7.8	138	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	141	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.392	2.0	155	0.00
21	4-Bromophenyl-phenylether	0.400	0.368	8.0	139	0.00
22	Hexachlorobenzene	0.400	0.380	5.0	130	0.00
23	Atrazine	0.400	0.383	4.3	141	-0.01
24	Pentachlorophenol	0.400	0.323	19.3	136	0.00
25	Phenanthrene	0.400	0.381	4.8	144	0.00
26	Anthracene	0.400	0.376	6.0	143	0.00
27 SURR	Fluoranthene-d10	0.400	0.369	7.8	130	0.00
28	Fluoranthene	0.400	0.354	11.5	132	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	141	0.00
30	Pyrene	0.400	0.392	2.0	133	0.00
31 S	Terphenyl-d14	0.400	0.417	-4.2	141	0.00
32	Benzo(a)anthracene	0.400	0.384	4.0	149	0.00
33	Chrysene	0.400	0.390	2.5	137	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.373	6.8	129	0.00
35 I	Perylene-d12	0.400	0.400	0.0	143	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.389	2.8	149	0.00
37	Benzo(b)fluoranthene	0.400	0.366	8.5	139	0.00
38	Benzo(k)fluoranthene	0.400	0.363	9.3	135	0.00
39 C	Benzo(a)pyrene	0.400	0.404	-1.0	154	0.00
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	153	0.00
41	Benzo(g,h,i)perylene	0.400	0.354	11.5	131	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: AECO15

Lab Code: CHEM Case No.: Q2263 SAS No.: Q2263 SDG No.: Q2263

Instrument ID: BNA_N Calibration Date/Time: 06/13/2025 22:01

Lab File ID: BN037238.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.571		6.3	50.0
Fluoranthene-d10	1.047	1.092		4.4	50.0
2-Fluorophenol	0.982	0.974		-0.8	50.0
Phenol-d6	1.035	0.987		-4.6	50.0
Nitrobenzene-d5	0.395	0.392		-0.8	50.0
2-Fluorobiphenyl	1.681	1.737		3.3	50.0
2,4,6-Tribromophenol	0.166	0.165		-0.6	50.0
Terphenyl-d14	0.904	0.885		-2.1	50.0
1,4-Dioxane	0.549	0.579		5.5	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037238.D
 Acq On : 13 Jun 2025 22:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 13 23:01:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

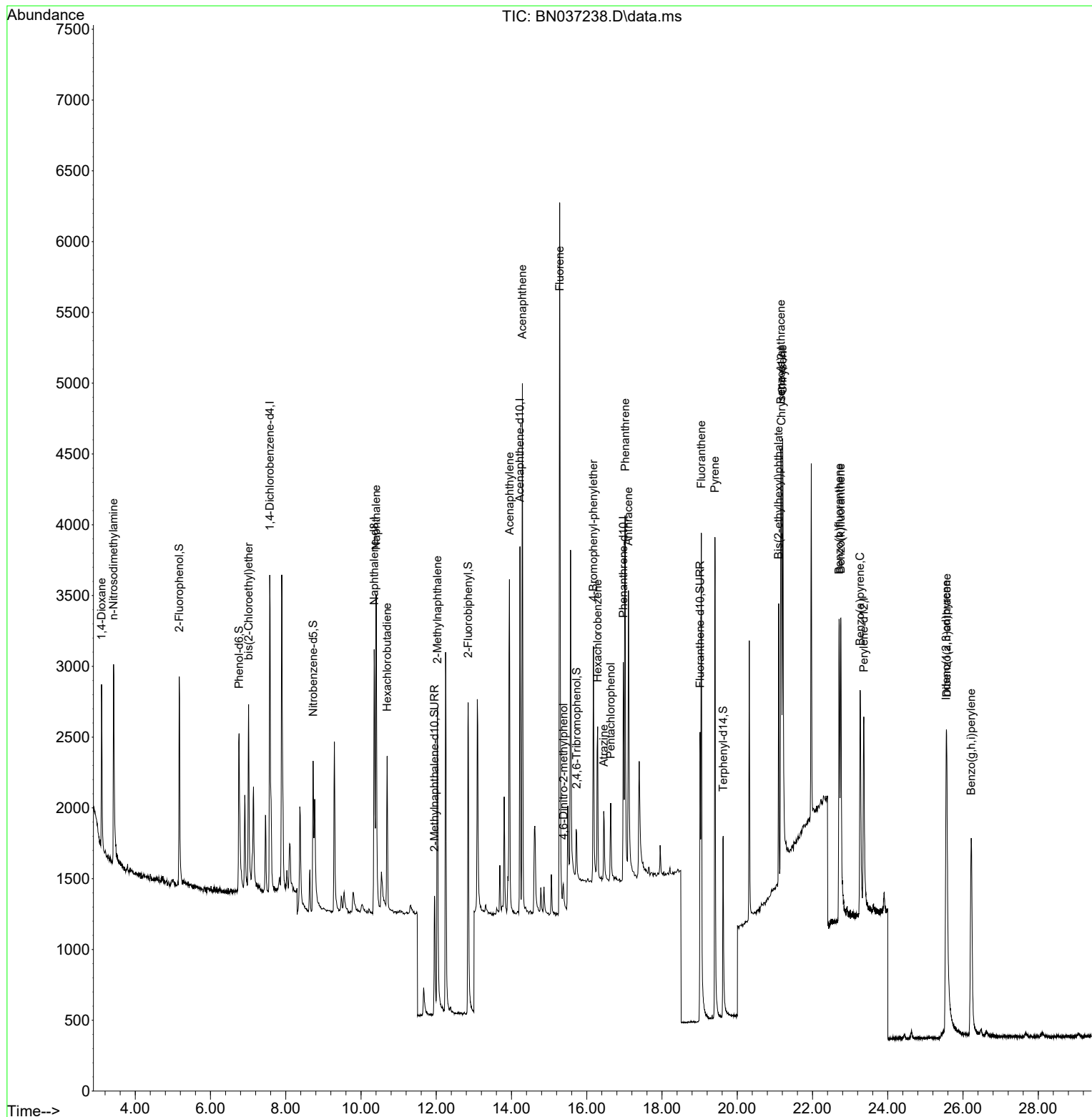
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1131	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2679	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1397	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2500	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1991	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	2098	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1102	0.397	ng	0.00
5) Phenol-d6	6.759	99	1116	0.381	ng	0.00
8) Nitrobenzene-d5	8.728	82	1051	0.397	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1530	0.426	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	231	0.398	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2427	0.413	ng	0.00
27) Fluoranthene-d10	19.012	212	2729	0.417	ng	0.00
31) Terphenyl-d14	19.626	244	1763	0.392	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	655	0.422	ng	87
3) n-Nitrosodimethylamine	3.422	42	1475	0.417	ng	95
6) bis(2-Chloroethyl)ether	7.012	93	972	0.371	ng	98
9) Naphthalene	10.404	128	3095	0.399	ng	99
10) Hexachlorobutadiene	10.693	225	801	0.424	ng	# 94
12) 2-Methylnaphthalene	12.031	142	1872	0.397	ng	99
16) Acenaphthylene	13.946	152	2661	0.389	ng	99
17) Acenaphthene	14.288	154	1709	0.387	ng	99
18) Fluorene	15.282	166	2157	0.380	ng	100
20) 4,6-Dinitro-2-methylph...	15.379	198	197	0.417	ng	95
21) 4-Bromophenyl-phenylether	16.177	248	634	0.389	ng	99
22) Hexachlorobenzene	16.289	284	741	0.392	ng	95
23) Atrazine	16.450	200	541	0.372	ng	# 91
24) Pentachlorophenol	16.636	266	348	0.376	ng	98
25) Phenanthrene	17.021	178	3012	0.380	ng	99
26) Anthracene	17.108	178	2710	0.373	ng	99
28) Fluoranthene	19.045	202	3574	0.385	ng	98
30) Pyrene	19.407	202	3580	0.382	ng	99
32) Benzo(a)anthracene	21.162	228	2590	0.385	ng	99
33) Chrysene	21.207	228	3275	0.391	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	1899	0.379	ng	99
36) Indeno(1,2,3-cd)pyrene	25.553	276	3529	0.417	ng	99
37) Benzo(b)fluoranthene	22.708	252	2905	0.379	ng	97
38) Benzo(k)fluoranthene	22.752	252	3315	0.374	ng	98
39) Benzo(a)pyrene	23.266	252	2731	0.396	ng	# 94
40) Dibenzo(a,h)anthracene	25.567	278	2592	0.403	ng	97
41) Benzo(g,h,i)perylene	26.216	276	3206	0.409	ng	99

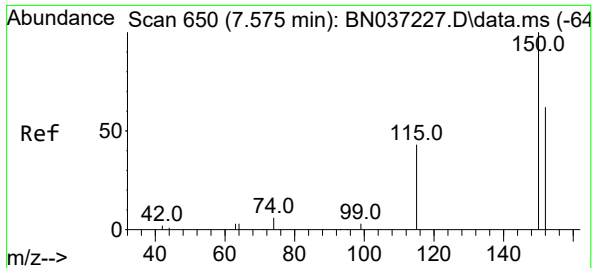
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037238.D
Acq On : 13 Jun 2025 22:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 13 23:01:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

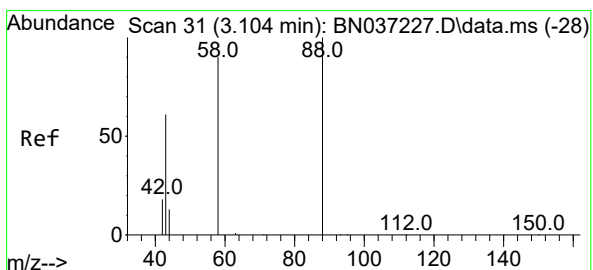
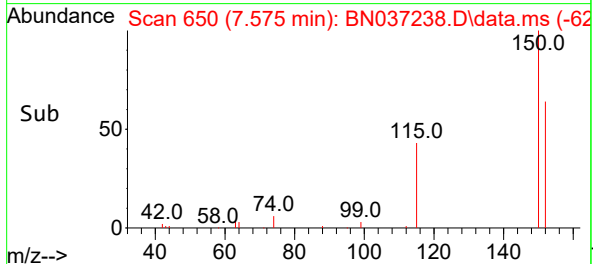
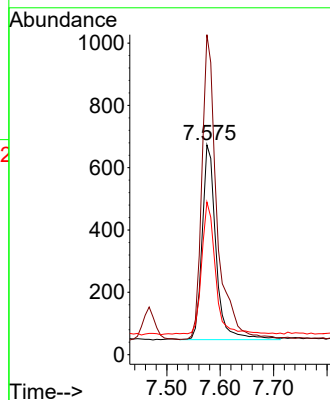
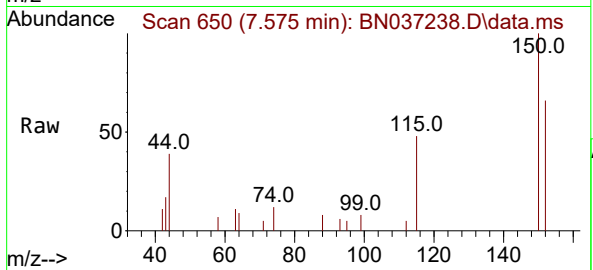




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

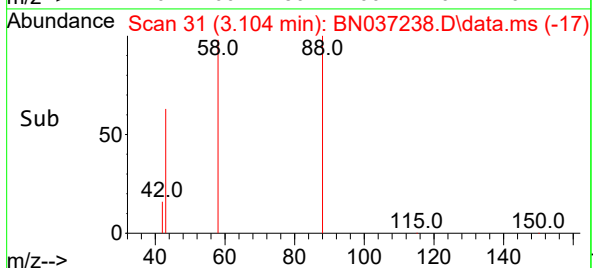
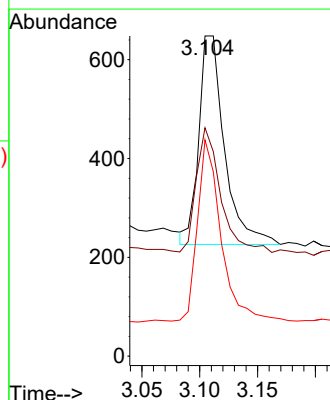
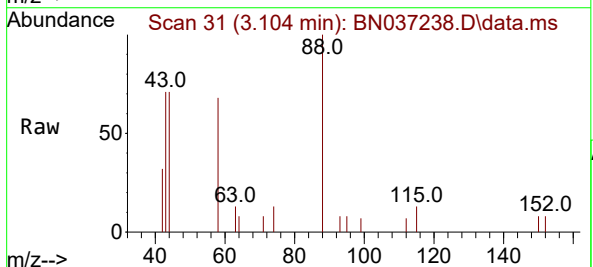
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

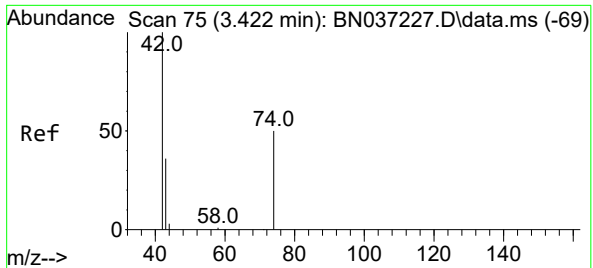
Tgt Ion:152 Resp: 1131
Ion Ratio Lower Upper
152 100
150 152.6 125.2 187.8
115 72.8 58.4 87.6



#2
1,4-Dioxane
Concen: 0.422 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion: 88 Resp: 655
Ion Ratio Lower Upper
88 100
43 55.7 52.6 79.0
58 78.9 73.5 110.3

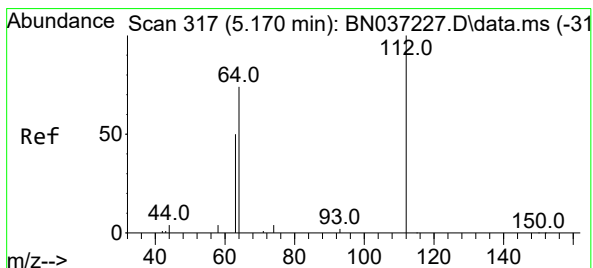
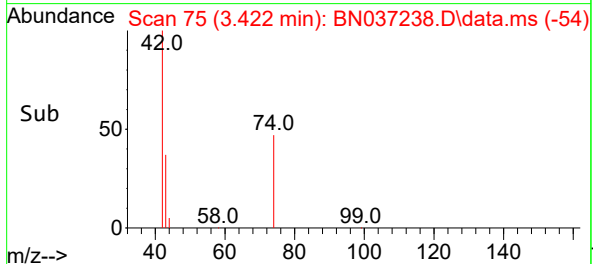
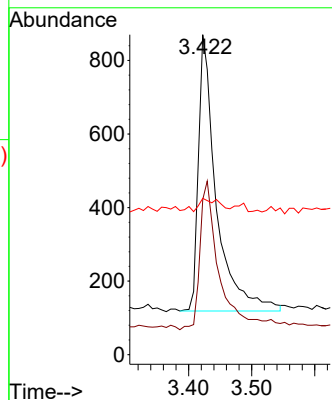
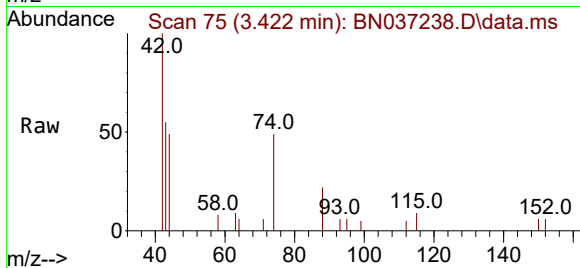




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

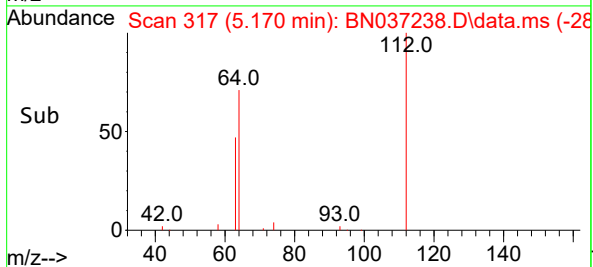
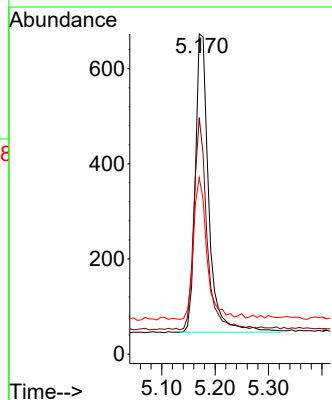
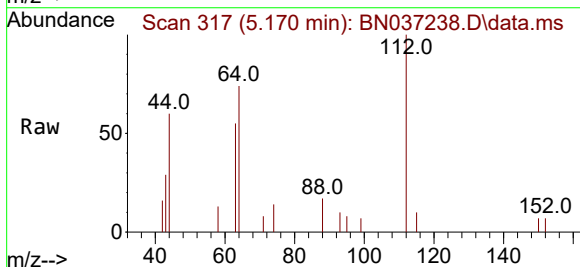
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

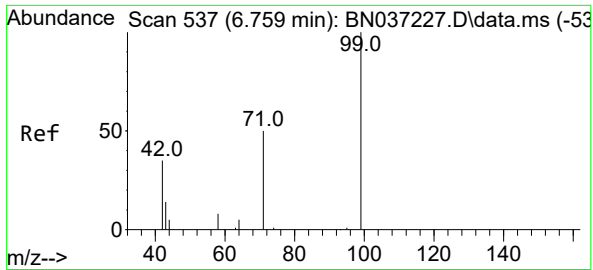
Tgt Ion: 42 Resp: 1475
Ion Ratio Lower Upper
42 100
74 59.2 44.6 66.8
44 5.2 3.5 5.3



#4
2-Fluorophenol
Concen: 0.397 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion: 112 Resp: 1102
Ion Ratio Lower Upper
112 100
64 69.1 57.2 85.8
63 47.3 39.8 59.6

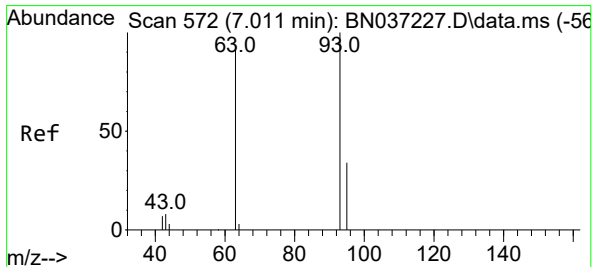
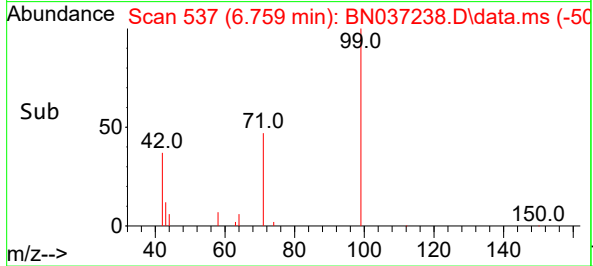
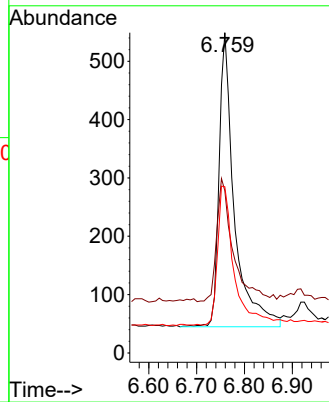
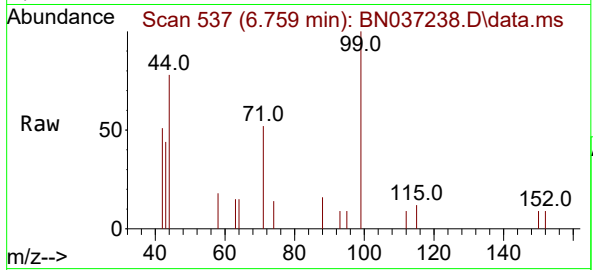




#5
Phenol-d6
Concen: 0.381 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

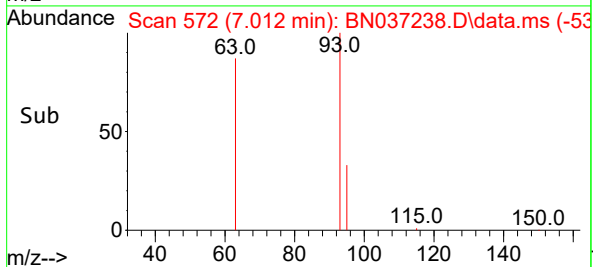
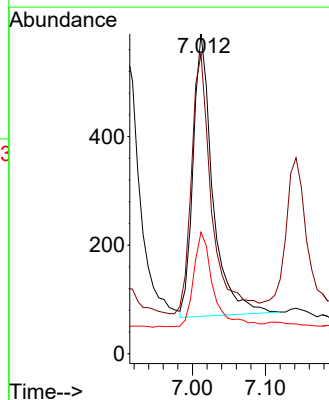
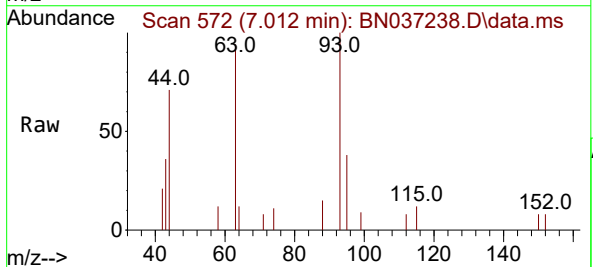
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

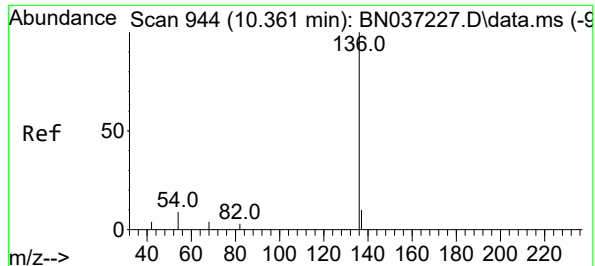
Tgt Ion	Ratio	Lower	Upper
99	100		
42	44.0	36.2	54.4
71	51.3	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.371 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion	Ratio	Lower	Upper
93	100		
63	95.1	75.2	112.8
95	33.0	28.3	42.5

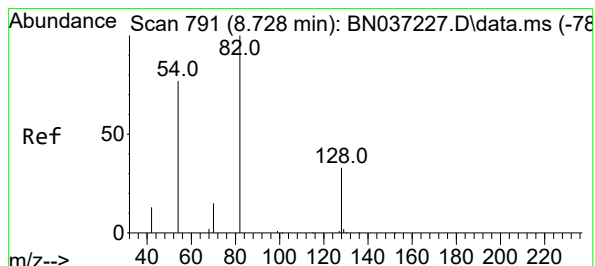
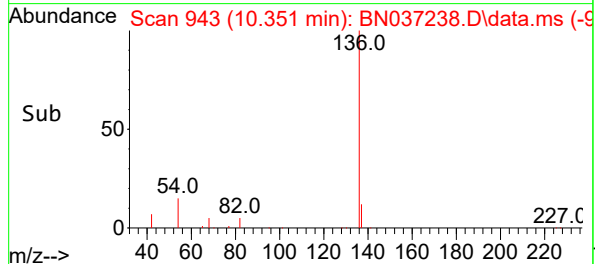
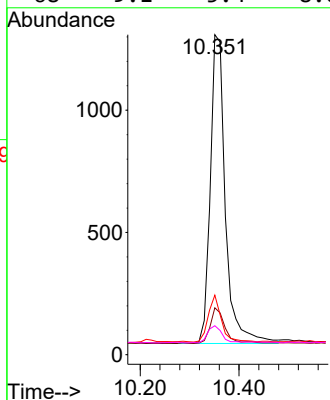
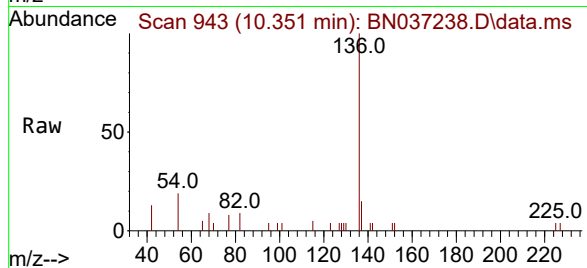




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

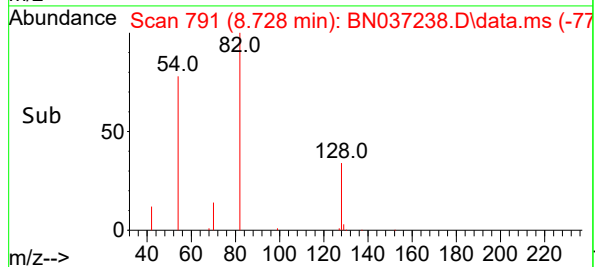
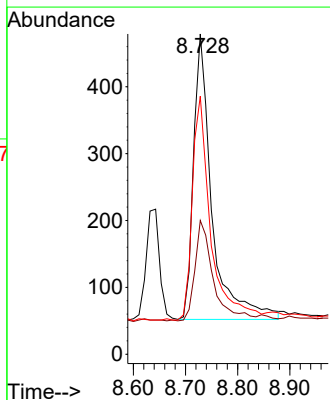
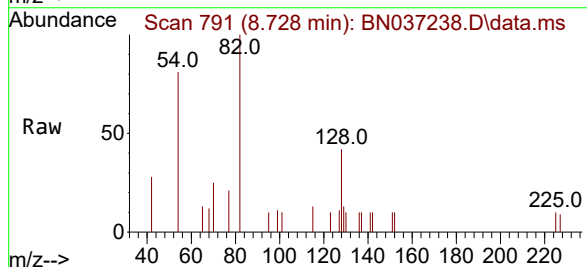
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

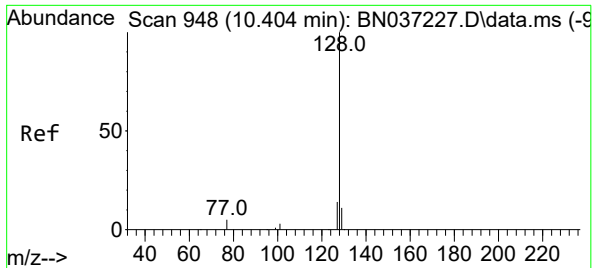
Tgt Ion:	136	Resp:	2679
Ion	Ratio	Lower	Upper
136	100		
137	14.7	10.6	15.8
54	18.6	9.2	13.8#
68	9.1	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.397 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:	82	Resp:	1051
Ion	Ratio	Lower	Upper
82	100		
128	41.8	31.2	46.8
54	80.6	63.3	94.9

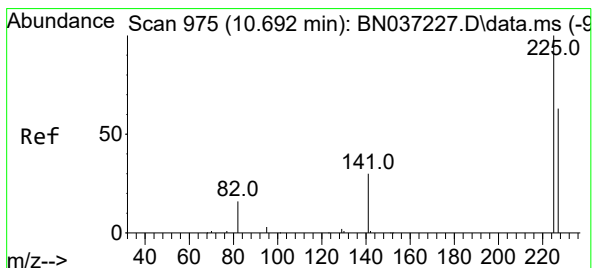
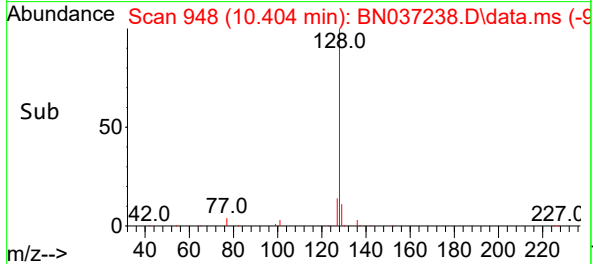
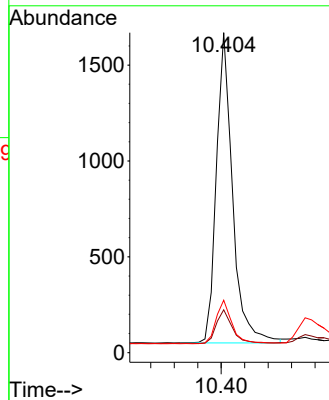
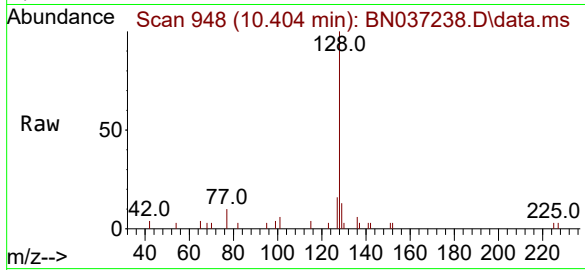




#9
Naphthalene
Concen: 0.399 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

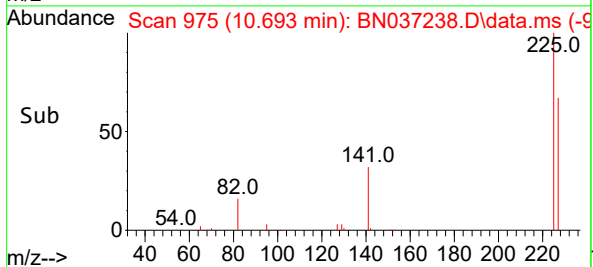
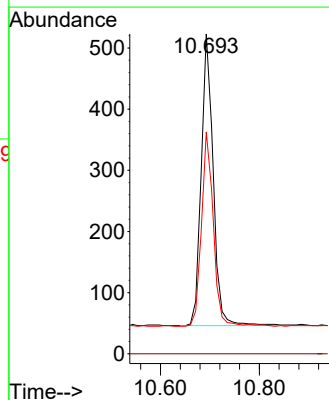
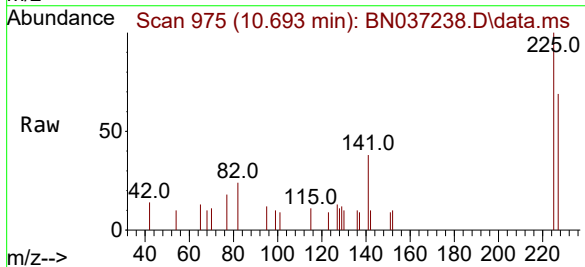
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

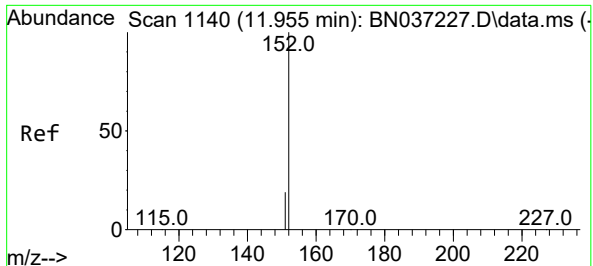
Tgt Ion:	128	Resp:	3095
Ion	Ratio	Lower	Upper
128	100		
129	13.4	10.7	16.1
127	16.4	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.424 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:	225	Resp:	801
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	66.2	49.2	73.8

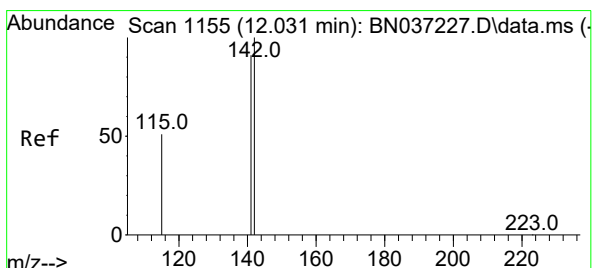
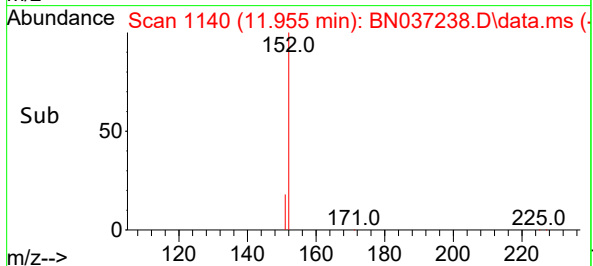
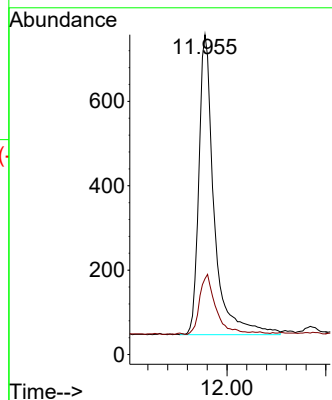
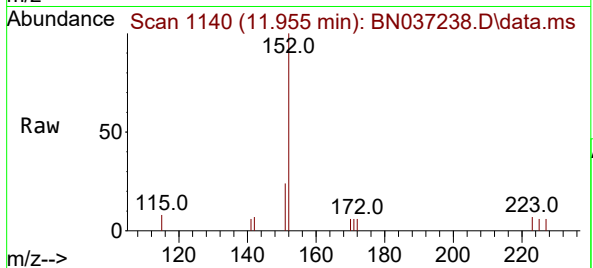




#11
2-Methylnaphthalene-d10
Concen: 0.426 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

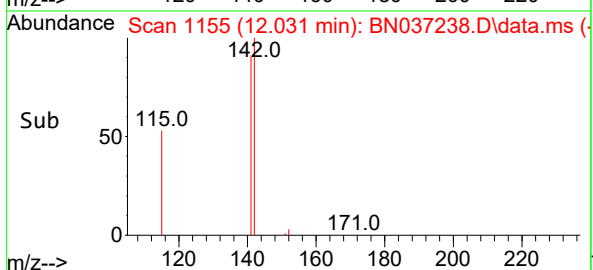
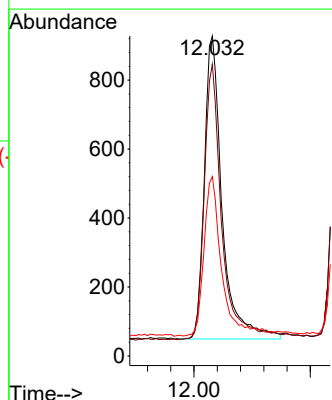
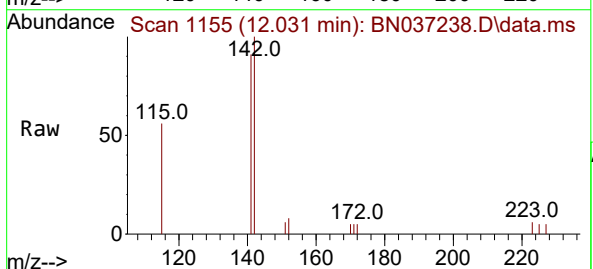
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

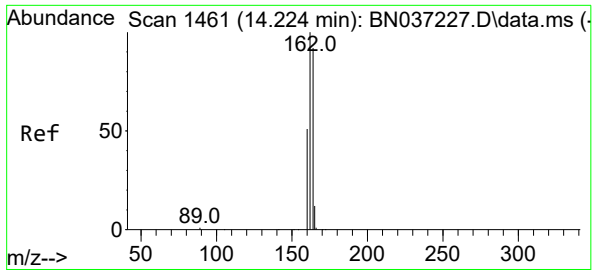
Tgt Ion:152 Resp: 1530
Ion Ratio Lower Upper
152 100
151 21.2 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.397 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:142 Resp: 1872
Ion Ratio Lower Upper
142 100
141 91.2 73.0 109.6
115 56.0 43.3 64.9

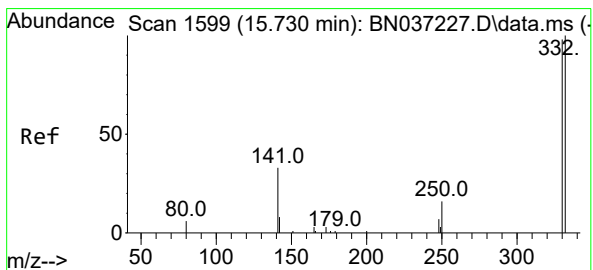
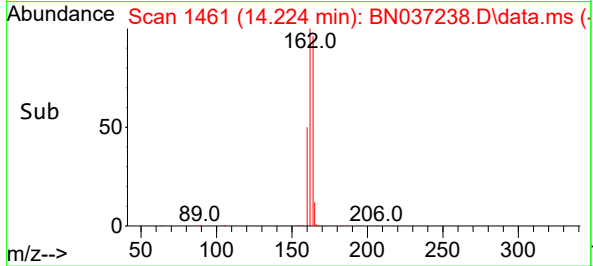
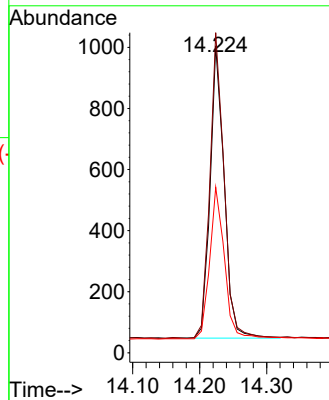
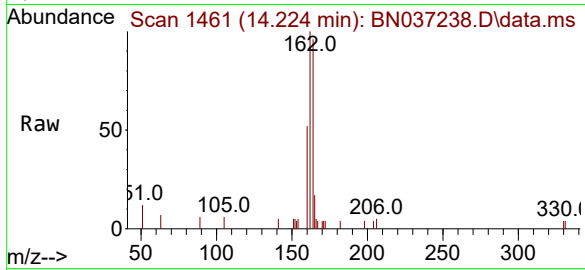




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

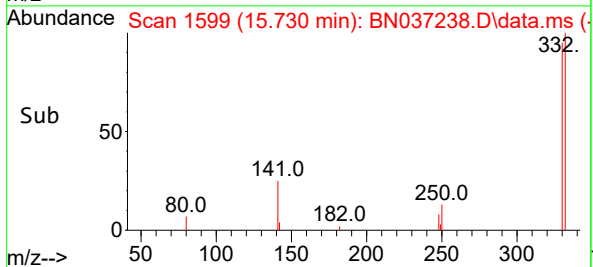
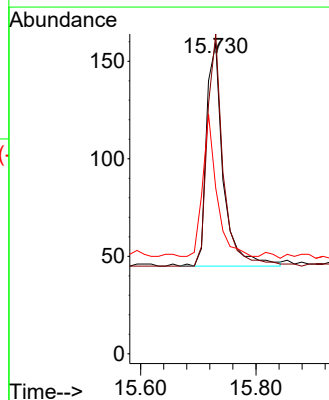
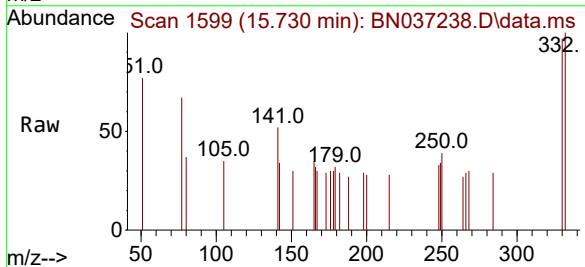
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

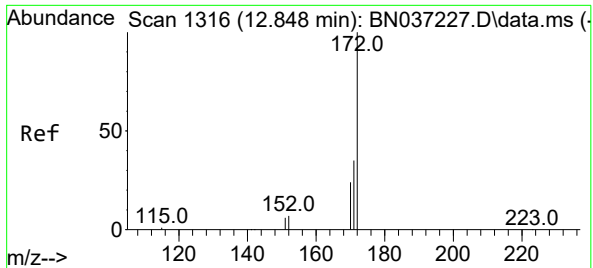
Tgt Ion:	164	Resp:	1397
Ion	Ratio	Lower	Upper
164	100		
162	104.3	86.7	130.1
160	53.9	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.398 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:	330	Resp:	231
Ion	Ratio	Lower	Upper
330	100		
332	97.8	74.9	112.3
141	54.5	45.1	67.7

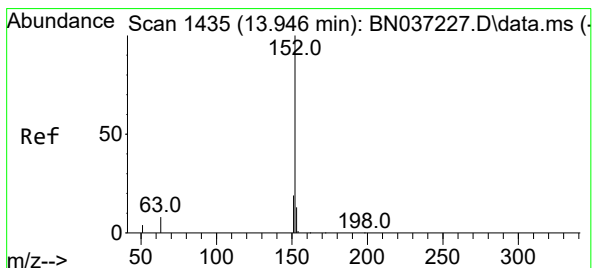
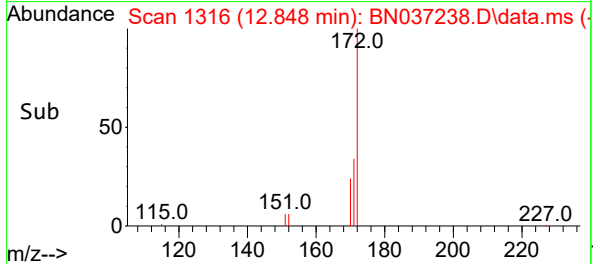
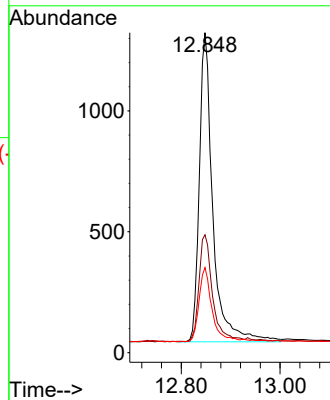
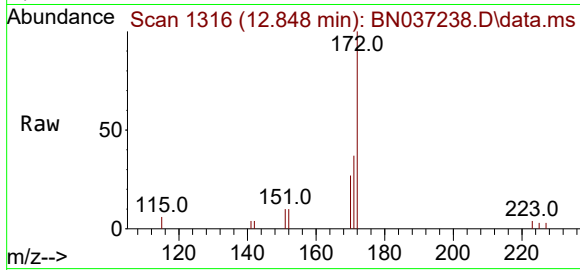




#15
2-Fluorobiphenyl
Concen: 0.413 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

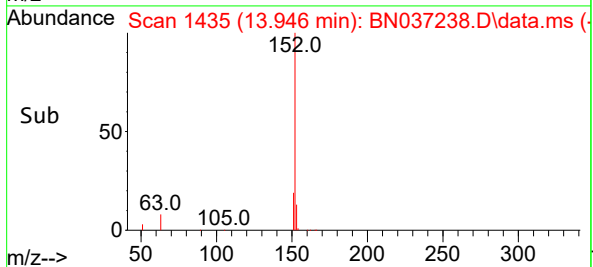
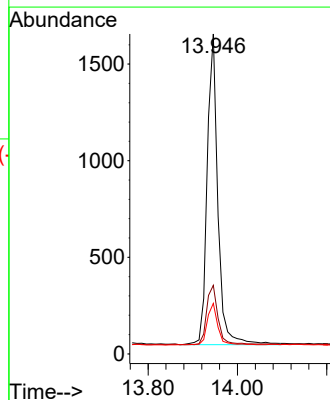
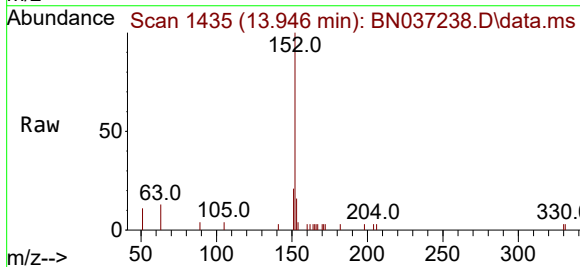
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

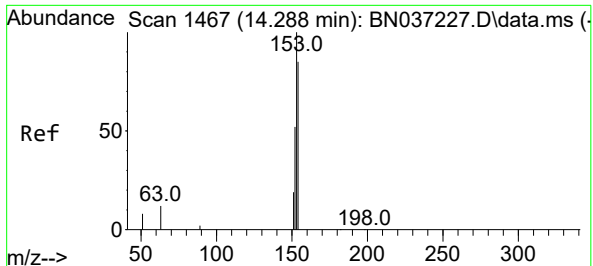
Tgt Ion:	172	Resp:	2427
Ion Ratio	Lower	Upper	
172	100		
171	36.9	29.8	44.8
170	26.6	21.1	31.7



#16
Acenaphthylene
Concen: 0.389 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:	152	Resp:	2661
Ion Ratio	Lower	Upper	
152	100		
151	20.0	15.7	23.5
153	13.5	10.7	16.1





#17

Acenaphthene

Concen: 0.387 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037238.D

Acq: 13 Jun 2025 22:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

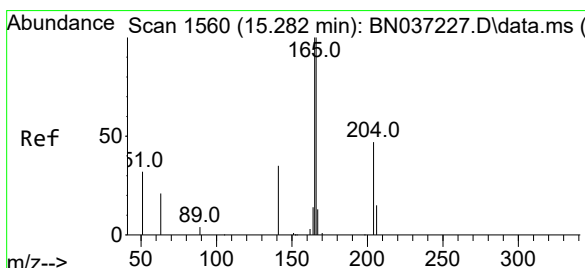
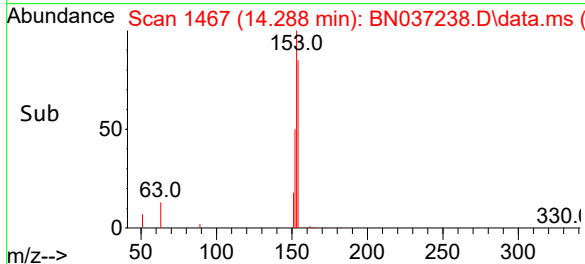
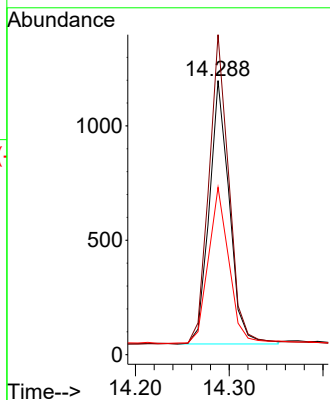
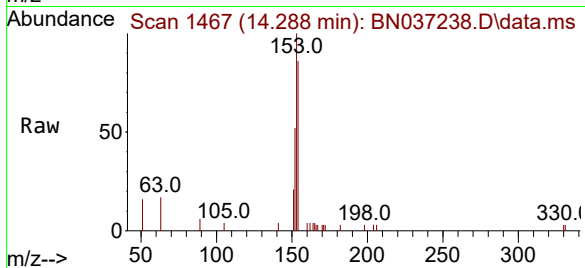
Tgt Ion:154 Resp: 1709

Ion Ratio Lower Upper

154 100

153 119.7 94.6 141.8

152 61.7 49.6 74.4



#18

Fluorene

Concen: 0.380 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037238.D

Acq: 13 Jun 2025 22:01

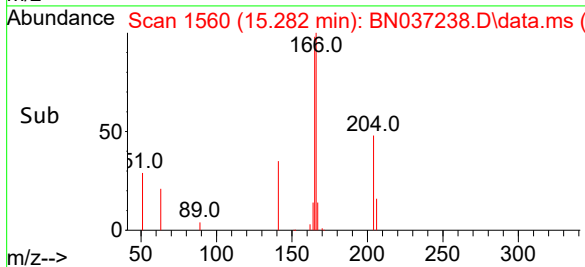
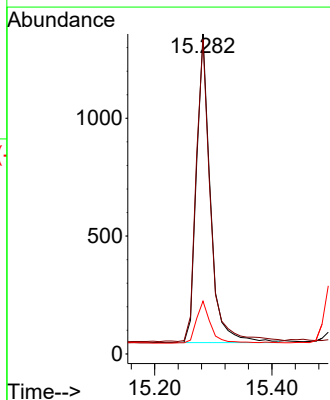
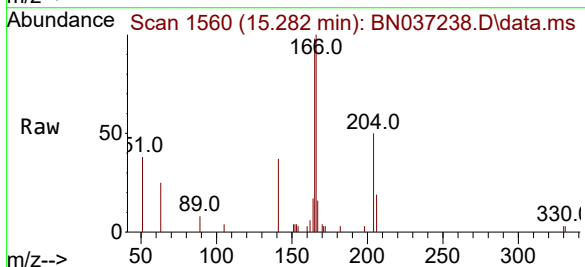
Tgt Ion:166 Resp: 2157

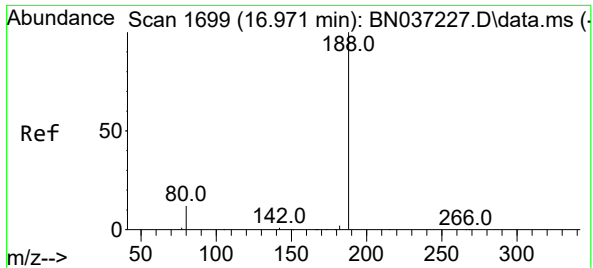
Ion Ratio Lower Upper

166 100

165 100.1 79.8 119.6

167 13.8 10.8 16.2

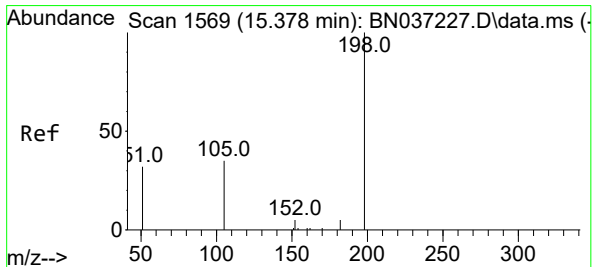
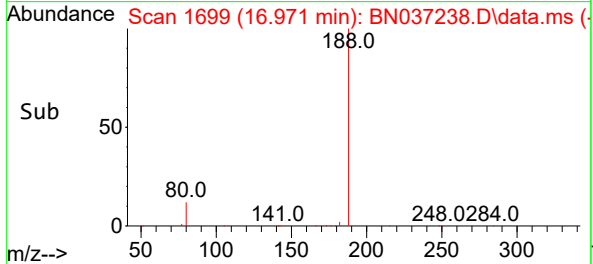
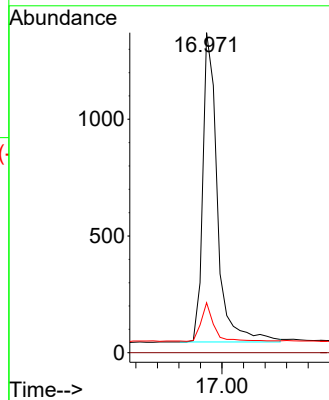
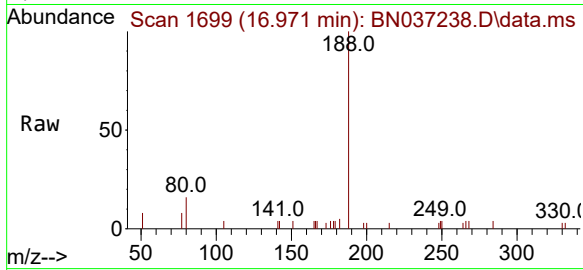




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

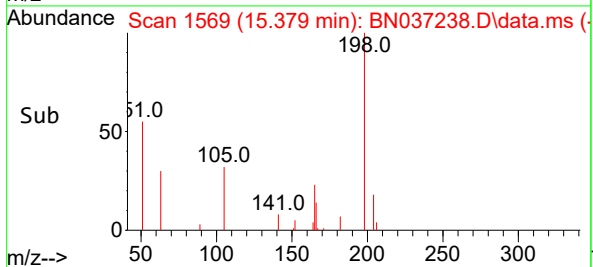
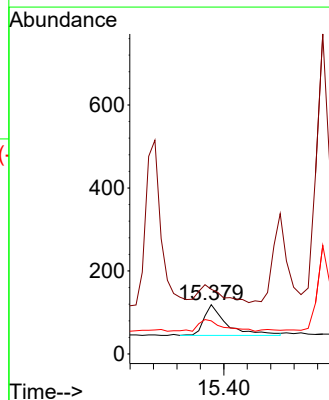
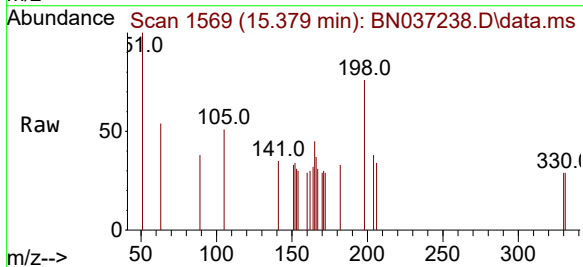
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

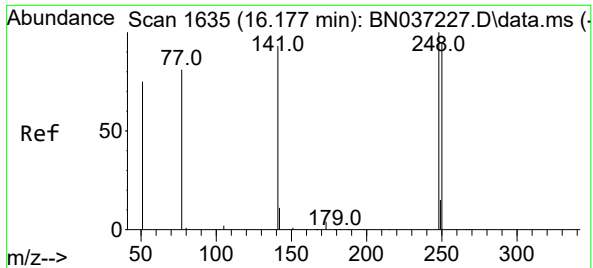
Tgt Ion:188 Resp: 2500
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.6 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.417 ng
RT: 15.379 min Scan# 1569
Delta R.T. 0.001 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:198 Resp: 197
Ion Ratio Lower Upper
198 100
51 131.1 111.2 166.8
105 67.2 54.0 81.0

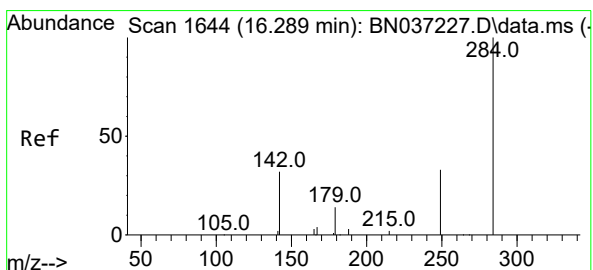
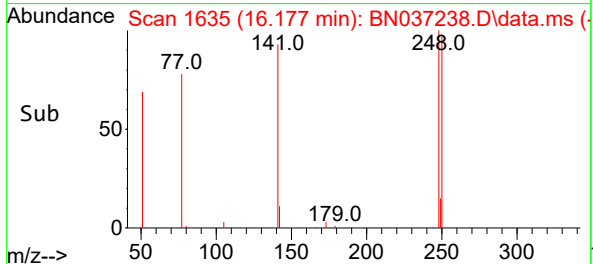
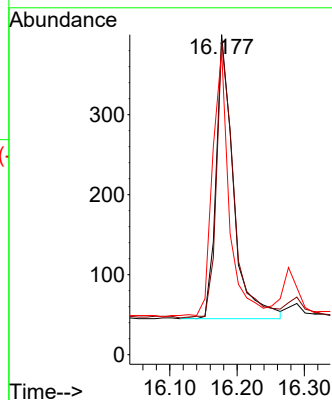
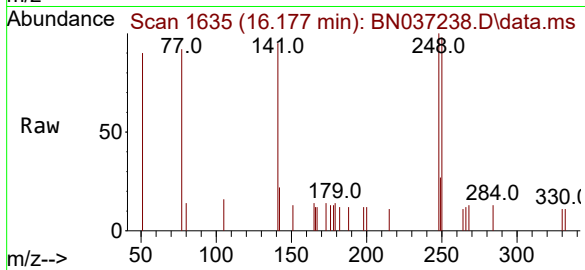




#21
4-Bromophenyl-phenylether
Concen: 0.389 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

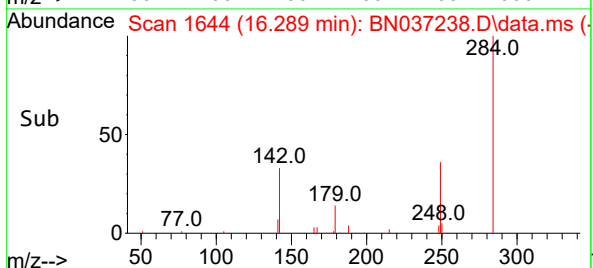
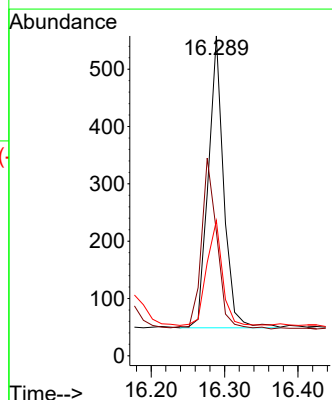
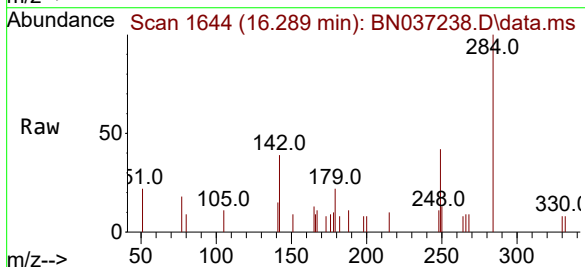
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

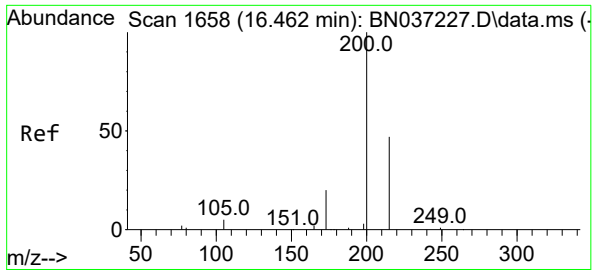
Tgt Ion:248 Resp: 634
Ion Ratio Lower Upper
248 100
250 98.0 76.8 115.2
141 95.0 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.392 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:284 Resp: 741
Ion Ratio Lower Upper
284 100
142 59.8 43.8 65.6
249 36.3 28.4 42.6

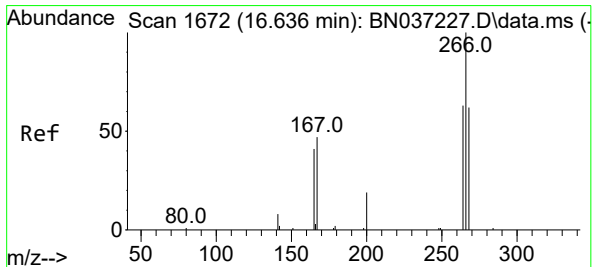
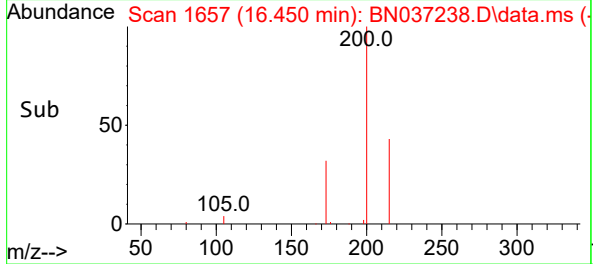
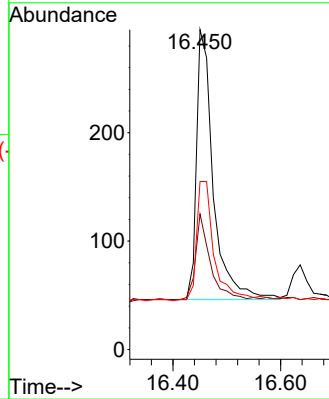
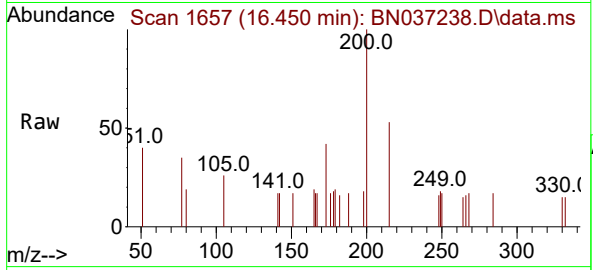




#23
Atrazine
Concen: 0.372 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

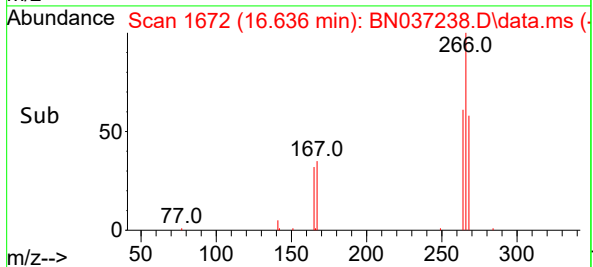
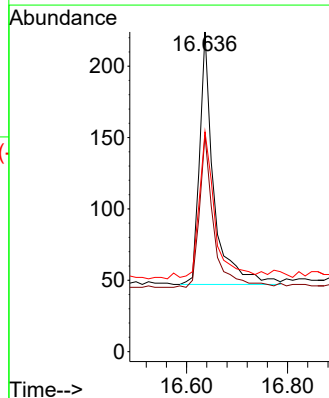
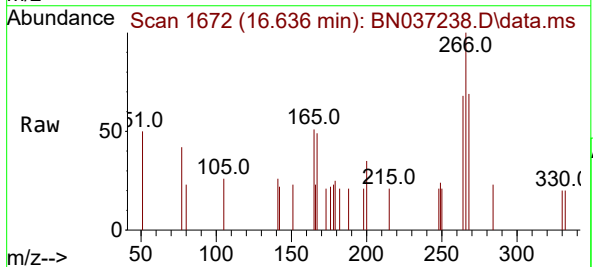
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

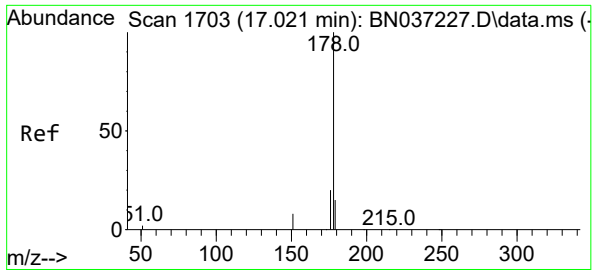
Tgt Ion:200 Resp: 541
Ion Ratio Lower Upper
200 100
173 42.4 25.1 37.7#
215 52.5 43.7 65.5



#24
Pentachlorophenol
Concen: 0.376 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:266 Resp: 348
Ion Ratio Lower Upper
266 100
264 60.3 49.2 73.8
268 64.9 53.4 80.2

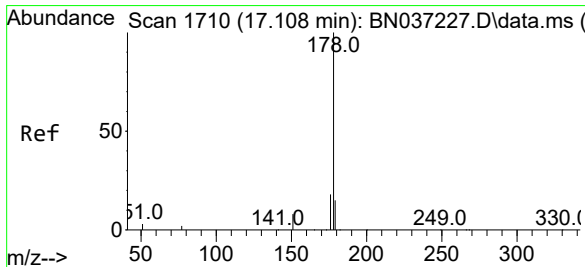
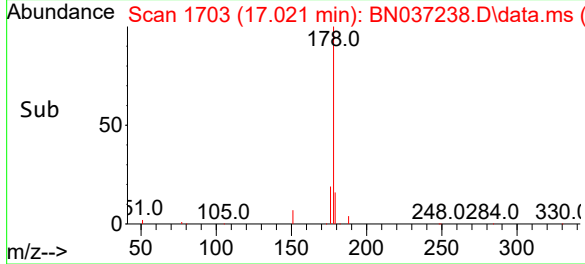
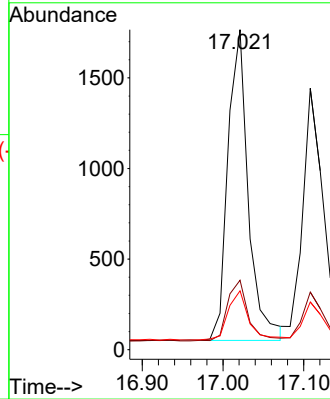
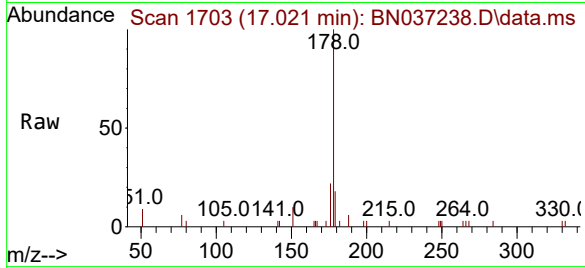




#25
Phenanthrene
Concen: 0.380 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

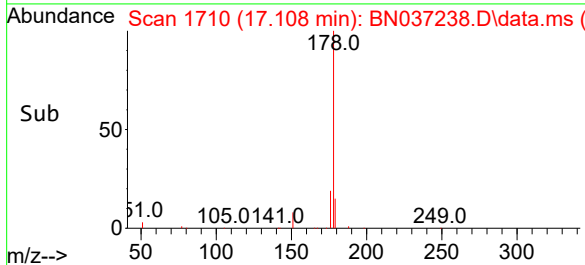
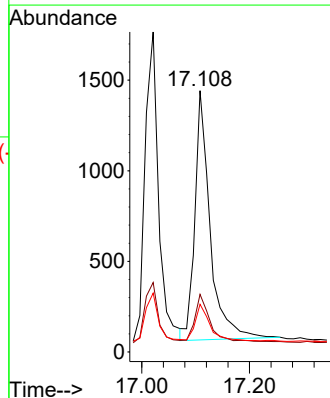
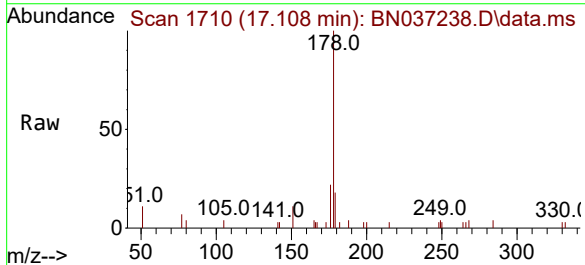
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

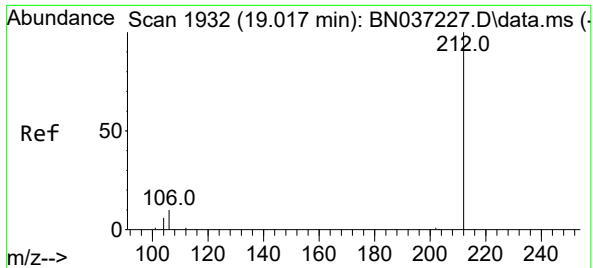
Tgt Ion:	178	Resp:	3012
Ion Ratio	Lower	Upper	
178	100		
176	19.6	16.3	24.5
179	15.8	12.6	18.8



#26
Anthracene
Concen: 0.373 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:	178	Resp:	2710
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.1	22.7
179	14.7	12.4	18.6

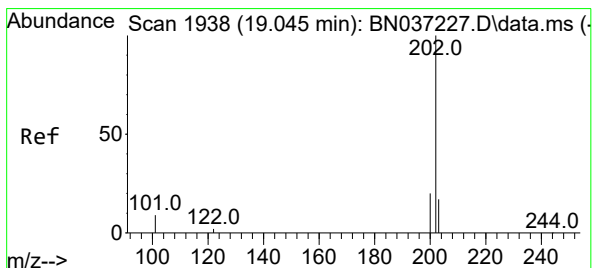
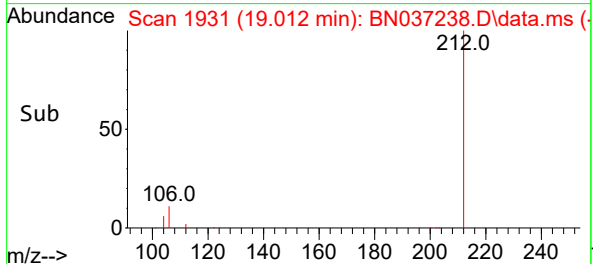
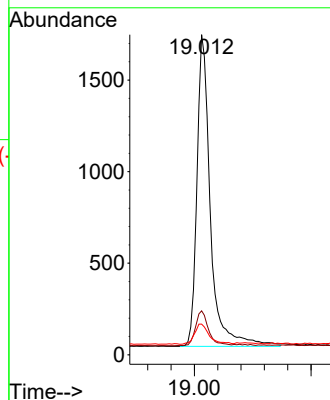
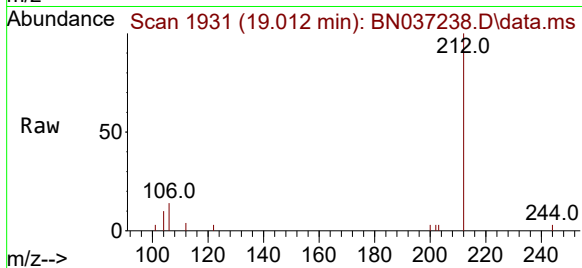




#27
Fluoranthene-d10
Concen: 0.417 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

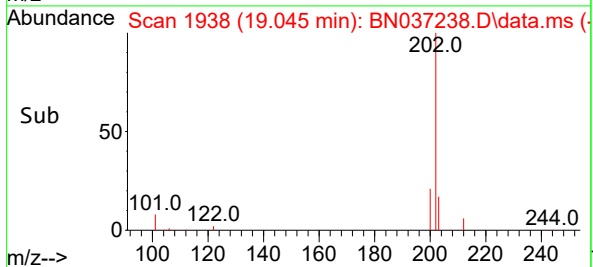
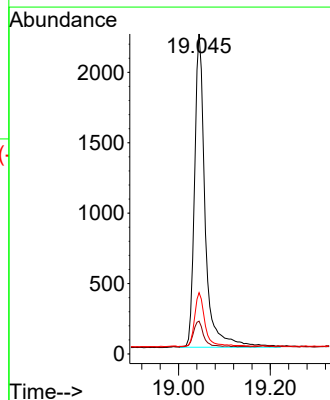
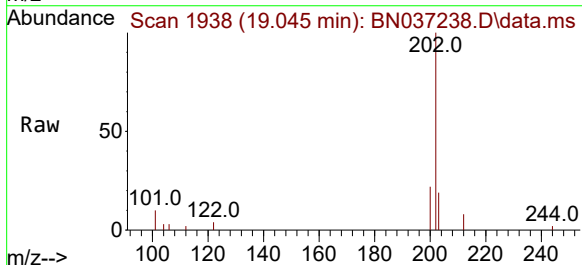
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

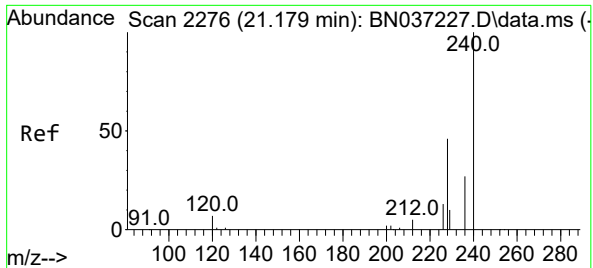
Tgt Ion	Ratio	Lower	Upper
212	100		
106	10.8	9.3	13.9
104	7.1	5.7	8.5



#28
Fluoranthene
Concen: 0.385 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion	Ratio	Lower	Upper
202	100		
101	7.9	7.1	10.7
203	16.9	13.0	19.6

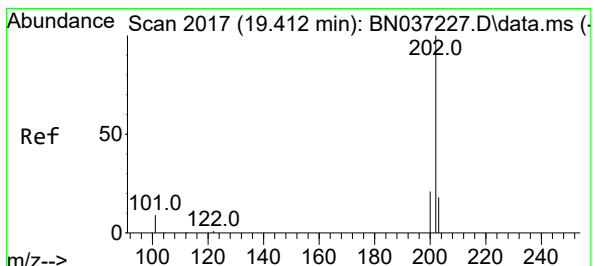
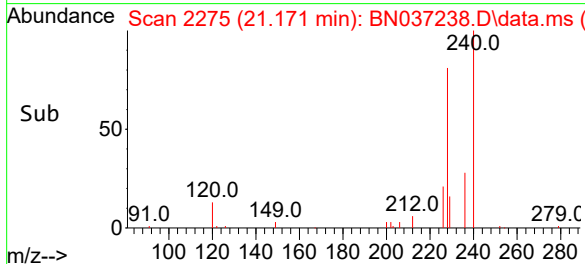
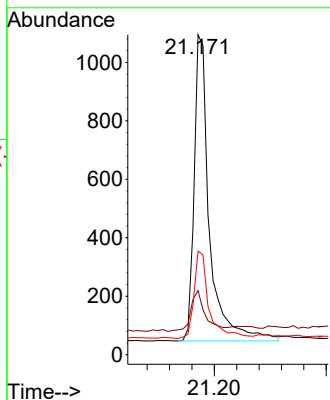
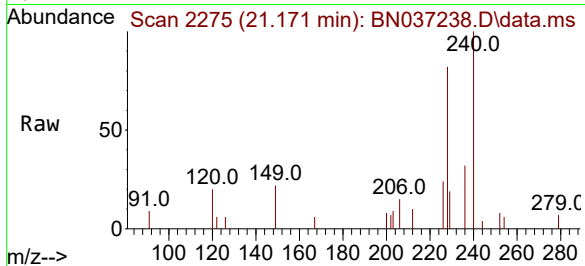




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

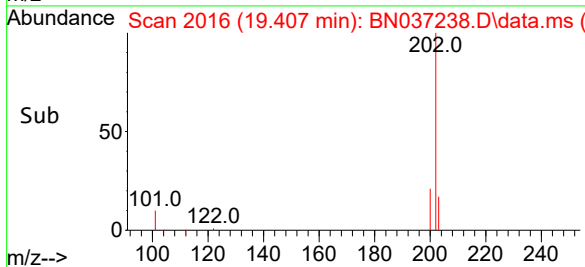
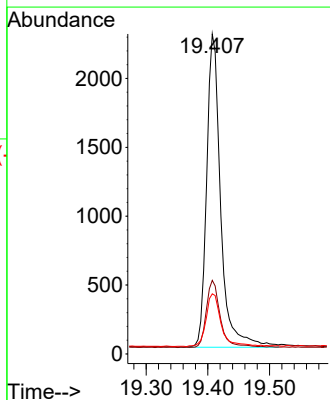
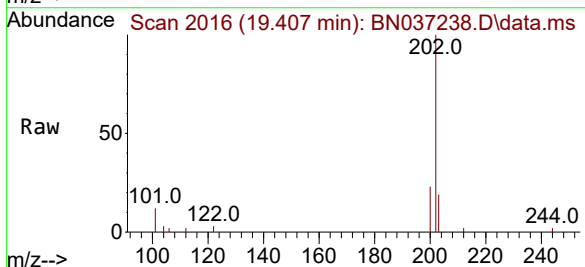
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

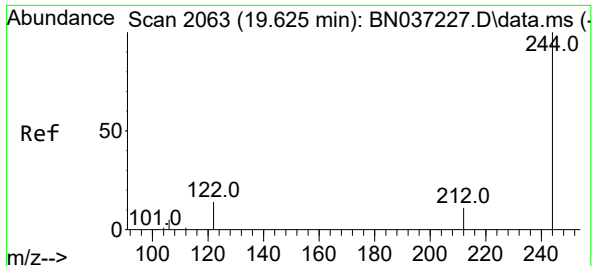
Tgt Ion:240 Resp: 1991
Ion Ratio Lower Upper
240 100
120 20.0 11.3 16.9#
236 32.3 24.4 36.6



#30
Pyrene
Concen: 0.382 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:202 Resp: 3580
Ion Ratio Lower Upper
202 100
200 21.6 17.2 25.8
203 18.6 14.3 21.5

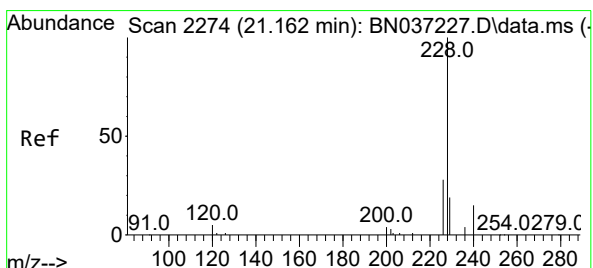
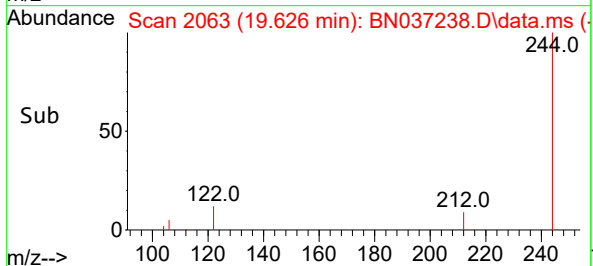
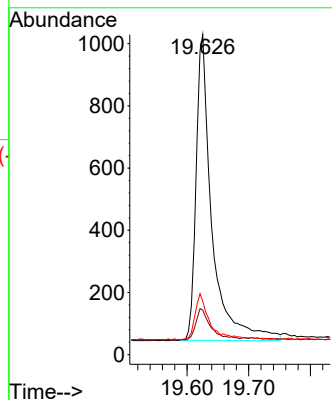
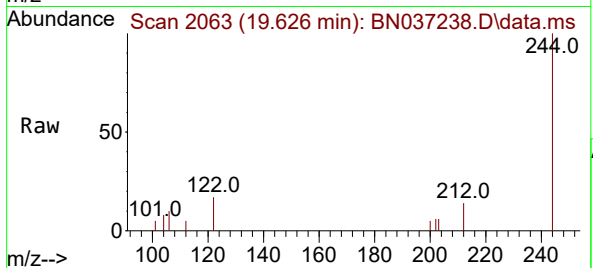




#31
Terphenyl-d14
Concen: 0.392 ng
RT: 19.626 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

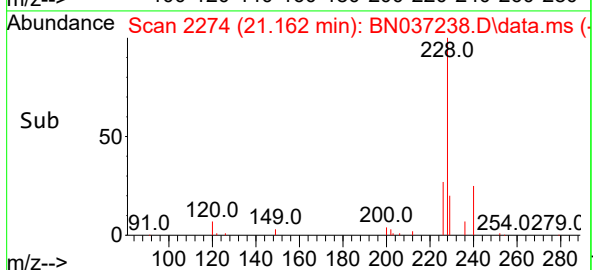
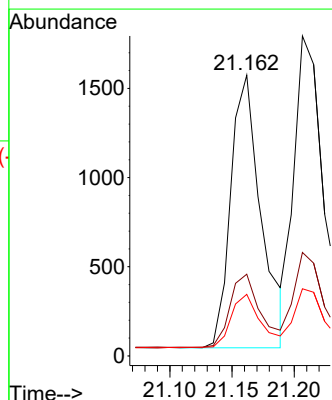
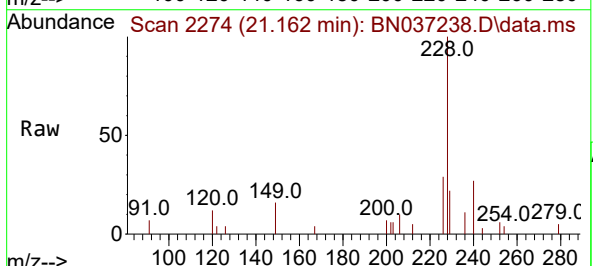
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

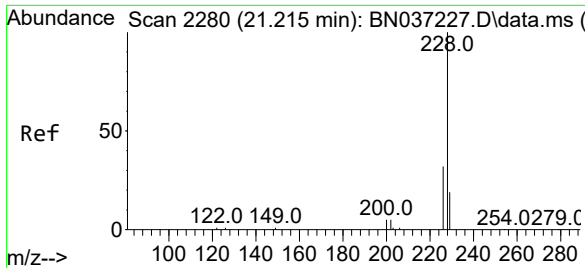
Tgt Ion:244 Resp: 1763
Ion Ratio Lower Upper
244 100
212 13.9 12.2 18.2
122 16.7 14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:228 Resp: 2590
Ion Ratio Lower Upper
228 100
226 29.1 23.8 35.8
229 21.9 17.0 25.4

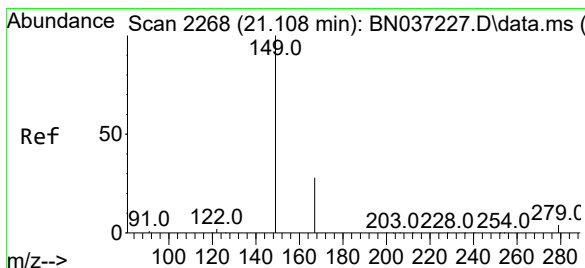
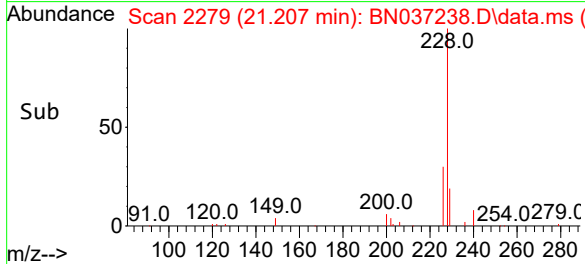
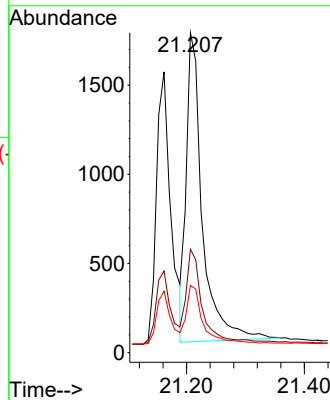
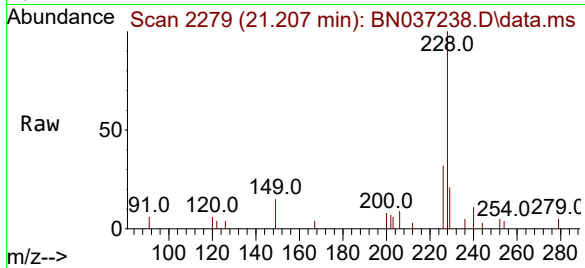




#33
Chrysene
Concen: 0.391 ng
RT: 21.207 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

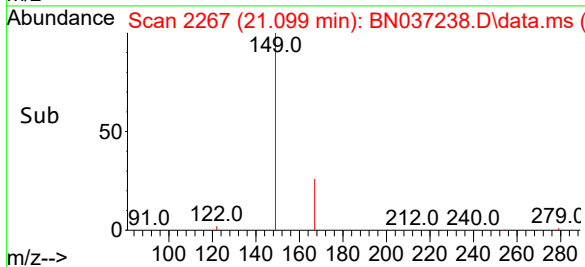
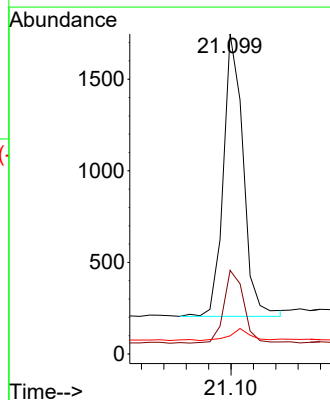
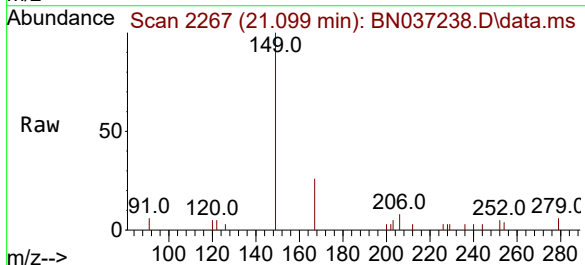
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

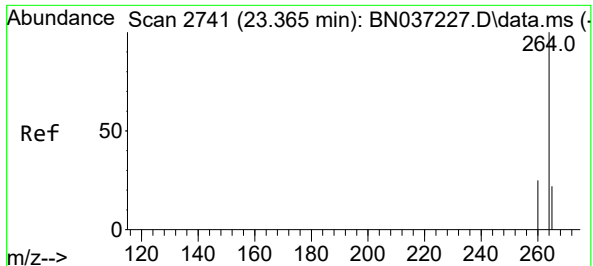
Tgt Ion:	228	Resp:	3275
Ion Ratio	Lower	Upper	
228	100		
226	32.3	25.8	38.6
229	21.0	17.0	25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.379 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:	149	Resp:	1899
Ion Ratio	Lower	Upper	
149	100		
167	26.0	21.3	31.9
279	4.4	3.3	4.9

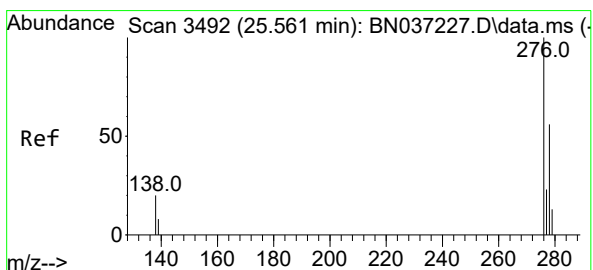
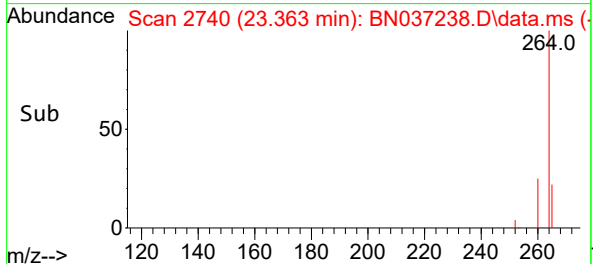
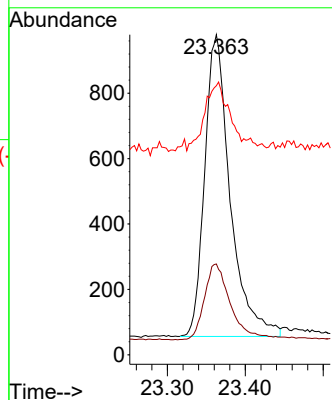
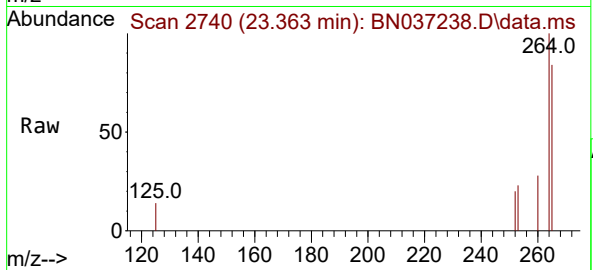




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

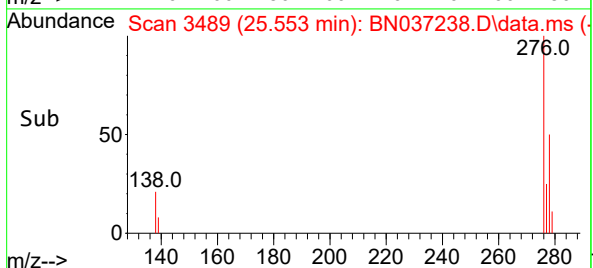
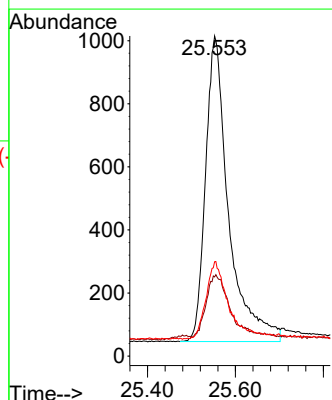
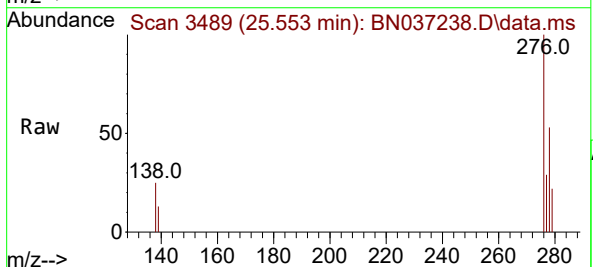
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

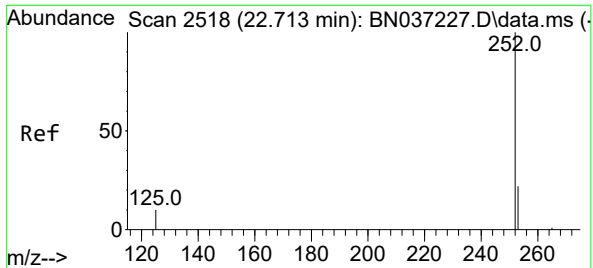
Tgt Ion:264 Resp: 2098
Ion Ratio Lower Upper
264 100
260 28.4 22.8 34.2
265 84.1 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.417 ng
RT: 25.553 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037238.D
Acq: 13 Jun 2025 22:01

Tgt Ion:276 Resp: 3529
Ion Ratio Lower Upper
276 100
138 21.0 16.8 25.2
277 23.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.379 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037238.D

Acq: 13 Jun 2025 22:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

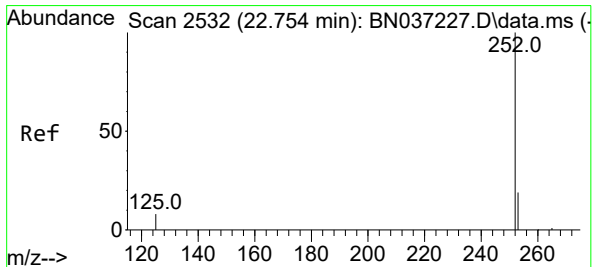
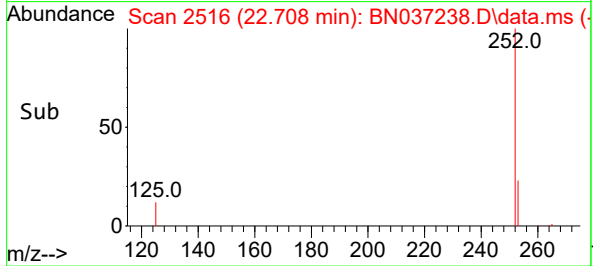
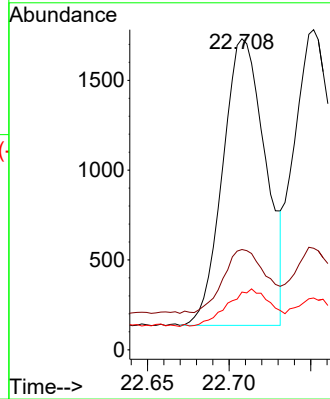
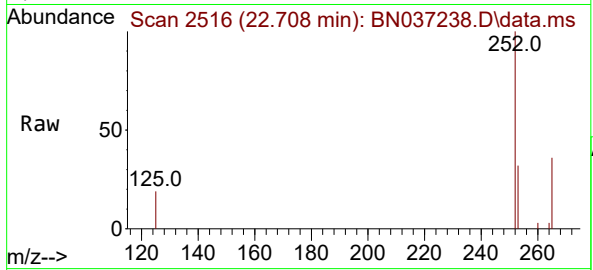
Tgt Ion:252 Resp: 2905

Ion Ratio Lower Upper

252 100

253 32.2 24.9 37.3

125 18.5 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.374 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037238.D

Acq: 13 Jun 2025 22:01

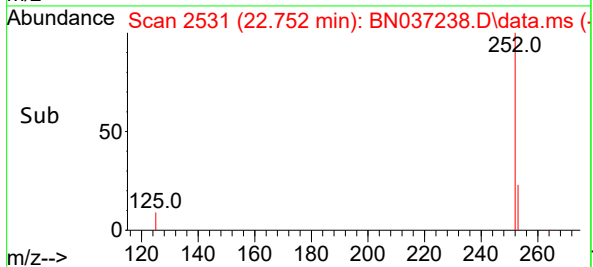
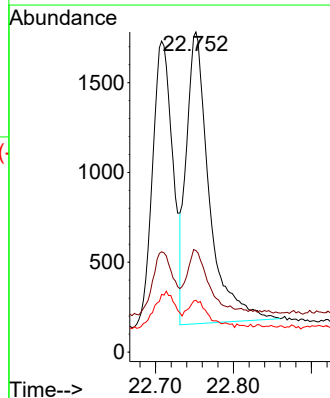
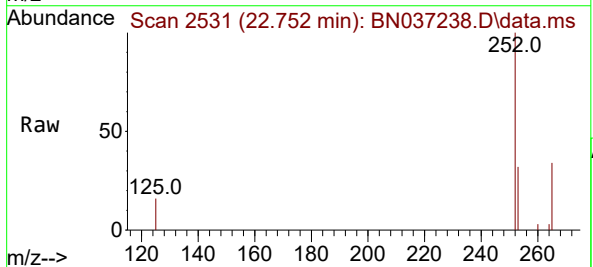
Tgt Ion:252 Resp: 3315

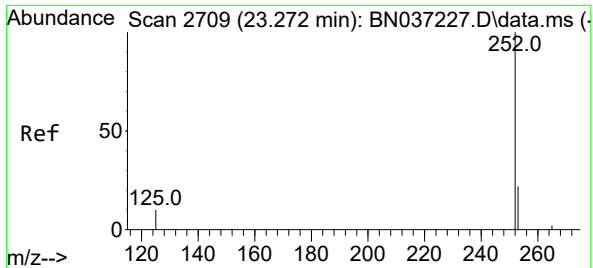
Ion Ratio Lower Upper

252 100

253 31.7 24.6 37.0

125 16.2 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037238.D

Acq: 13 Jun 2025 22:01

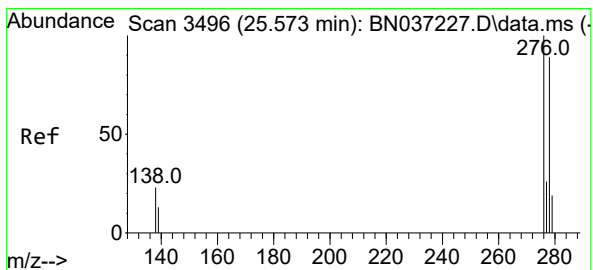
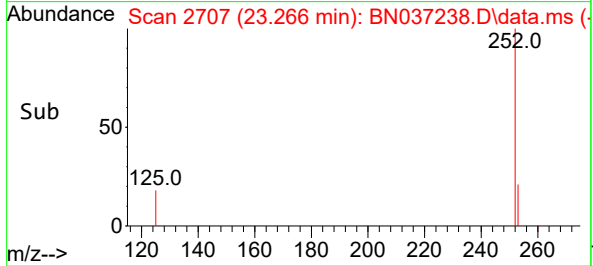
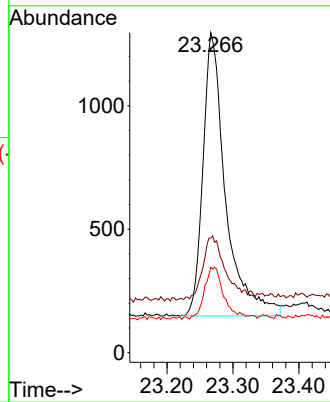
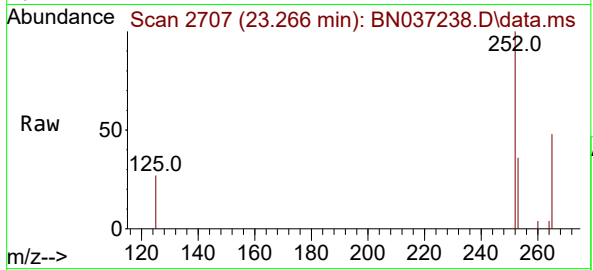
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion:252	Resp:	2731
Ion Ratio	Lower	Upper
252	100	
253	35.8	29.4 44.2
125	26.6	16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.403 ng

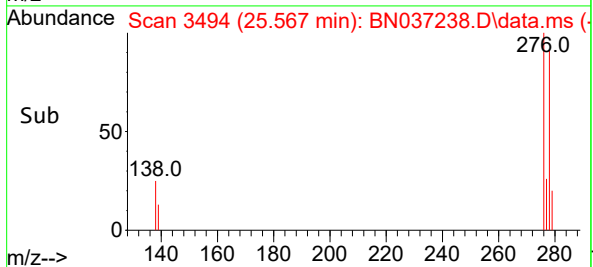
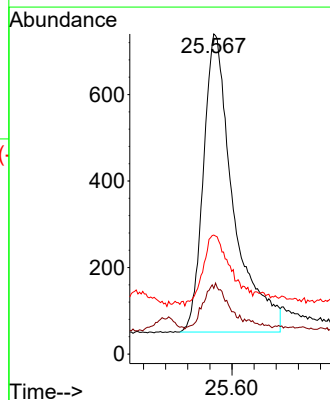
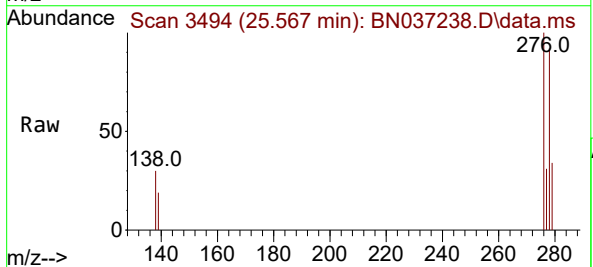
RT: 25.567 min Scan# 3494

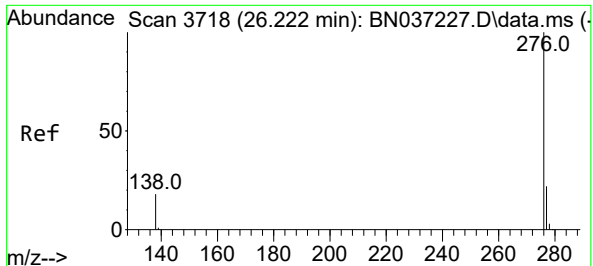
Delta R.T. -0.006 min

Lab File: BN037238.D

Acq: 13 Jun 2025 22:01

Tgt Ion:278	Resp:	2592
Ion Ratio	Lower	Upper
278	100	
139	20.5	17.8 26.6
279	37.2	31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.409 ng

RT: 26.216 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037238.D

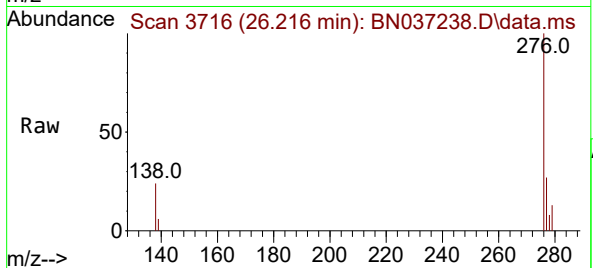
Acq: 13 Jun 2025 22:01

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



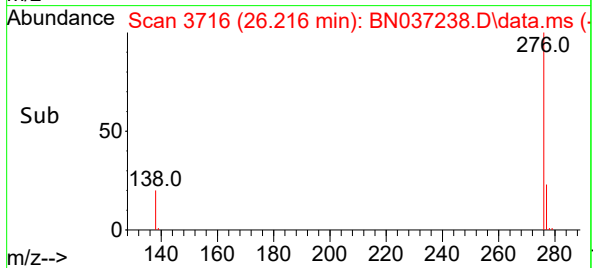
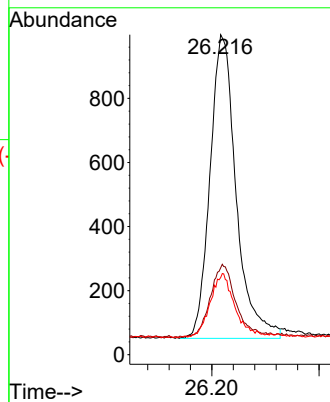
Tgt Ion:276 Resp: 3206

Ion Ratio Lower Upper

276 100

277 27.1 22.0 33.0

138 24.1 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037238.D
 Acq On : 13 Jun 2025 22:01
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 13 23:01:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	88	0.00
2	1,4-Dioxane	0.549	0.579	-5.5	97	0.00
3	n-Nitrosodimethylamine	1.250	1.304	-4.3	90	0.00
4 S	2-Fluorophenol	0.982	0.974	0.8	91	0.00
5 S	Phenol-d6	1.035	0.987	4.6	90	0.00
6	bis(2-Chloroethyl)ether	0.927	0.859	7.3	87	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.395	0.392	0.8	85	0.00
9	Naphthalene	1.158	1.155	0.3	85	0.00
10	Hexachlorobutadiene	0.282	0.299	-6.0	83	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.571	-6.3	86	0.00
12	2-Methylnaphthalene	0.704	0.699	0.7	83	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	80	0.00
14 S	2,4,6-Tribromophenol	0.166	0.165	0.6	78	0.00
15 S	2-Fluorobiphenyl	1.681	1.737	-3.3	82	0.00
16	Acenaphthylene	1.960	1.905	2.8	82	0.00
17	Acenaphthene	1.265	1.223	3.3	79	0.00
18	Fluorene	1.625	1.544	5.0	78	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.079	14.1	93	0.00
21	4-Bromophenyl-phenylether	0.261	0.254	2.7	81	0.00
22	Hexachlorobenzene	0.302	0.296	2.0	75	0.00
23	Atrazine	0.232	0.216	6.9	76	-0.01
24	Pentachlorophenol	0.148	0.139	6.1	88	0.00
25	Phenanthrene	1.269	1.205	5.0	79	0.00
26	Anthracene	1.161	1.084	6.6	79	0.00
27 SURR	Fluoranthene-d10	1.046	1.092	-4.4	81	0.00
28	Fluoranthene	1.485	1.430	3.7	79	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	87	0.00
30	Pyrene	1.881	1.798	4.4	80	0.00
31 S	Terphenyl-d14	0.904	0.885	2.1	82	0.00
32	Benzo(a)anthracene	1.351	1.301	3.7	93	0.00
33	Chrysene	1.683	1.645	2.3	85	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.954	5.2	81	0.00
35 I	Perylene-d12	1.000	1.000	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.682	-4.3	109	0.00
37	Benzo(b)fluoranthene	1.463	1.385	5.3	98	0.00
38	Benzo(k)fluoranthene	1.689	1.580	6.5	95	0.00
39 C	Benzo(a)pyrene	1.316	1.302	1.1	103	0.00
40	Dibenzo(a,h)anthracene	1.227	1.235	-0.7	115	0.00
41	Benzo(g,h,i)perylene	1.496	1.528	-2.1	103	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037238.D
Acq On : 13 Jun 2025 22:01
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 13 23:01:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	88	0.00
2	1,4-Dioxane	0.400	0.422	-5.5	97	0.00
3	n-Nitrosodimethylamine	0.400	0.417	-4.2	90	0.00
4 S	2-Fluorophenol	0.400	0.397	0.8	91	0.00
5 S	Phenol-d6	0.400	0.381	4.8	90	0.00
6	bis(2-Chloroethyl)ether	0.400	0.371	7.3	87	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.400	0.397	0.8	85	0.00
9	Naphthalene	0.400	0.399	0.3	85	0.00
10	Hexachlorobutadiene	0.400	0.424	-6.0	83	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.426	-6.5	86	0.00
12	2-Methylnaphthalene	0.400	0.397	0.8	83	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	80	0.00
14 S	2,4,6-Tribromophenol	0.400	0.398	0.5	78	0.00
15 S	2-Fluorobiphenyl	0.400	0.413	-3.2	82	0.00
16	Acenaphthylene	0.400	0.389	2.8	82	0.00
17	Acenaphthene	0.400	0.387	3.3	79	0.00
18	Fluorene	0.400	0.380	5.0	78	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	78	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.417	-4.2	93	0.00
21	4-Bromophenyl-phenylether	0.400	0.389	2.8	81	0.00
22	Hexachlorobenzene	0.400	0.392	2.0	75	0.00
23	Atrazine	0.400	0.372	7.0	76	-0.01
24	Pentachlorophenol	0.400	0.376	6.0	88	0.00
25	Phenanthrene	0.400	0.380	5.0	79	0.00
26	Anthracene	0.400	0.373	6.8	79	0.00
27 SURR	Fluoranthene-d10	0.400	0.417	-4.2	81	0.00
28	Fluoranthene	0.400	0.385	3.8	79	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	87	0.00
30	Pyrene	0.400	0.382	4.5	80	0.00
31 S	Terphenyl-d14	0.400	0.392	2.0	82	0.00
32	Benzo(a)anthracene	0.400	0.385	3.8	93	0.00
33	Chrysene	0.400	0.391	2.3	85	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.379	5.3	81	0.00
35 I	Perylene-d12	0.400	0.400	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.417	-4.2	109	0.00
37	Benzo(b)fluoranthene	0.400	0.379	5.3	98	0.00
38	Benzo(k)fluoranthene	0.400	0.374	6.5	95	0.00
39 C	Benzo(a)pyrene	0.400	0.396	1.0	103	0.00
40	Dibenzo(a,h)anthracene	0.400	0.403	-0.8	115	0.00
41	Benzo(g,h,i)perylene	0.400	0.409	-2.2	103	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: AECO15

Lab Code: CHEM Case No.: Q2263 SAS No.: Q2263 SDG No.: Q2263

Instrument ID: BNA_N Calibration Date/Time: 06/13/2025 23:55

Lab File ID: BN037240.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.559		4.1	20.0
Fluoranthene-d10	1.047	1.058		1.1	20.0
2-Fluorophenol	0.982	0.884		-10.0	20.0
Phenol-d6	1.035	0.970		-6.3	20.0
Nitrobenzene-d5	0.395	0.404		2.3	20.0
2-Fluorobiphenyl	1.681	1.759		4.6	20.0
2,4,6-Tribromophenol	0.166	0.171		3.0	20.0
Terphenyl-d14	0.904	0.889		-1.7	20.0
1,4-Dioxane	0.549	0.484		-11.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037240.D
 Acq On : 13 Jun 2025 23:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

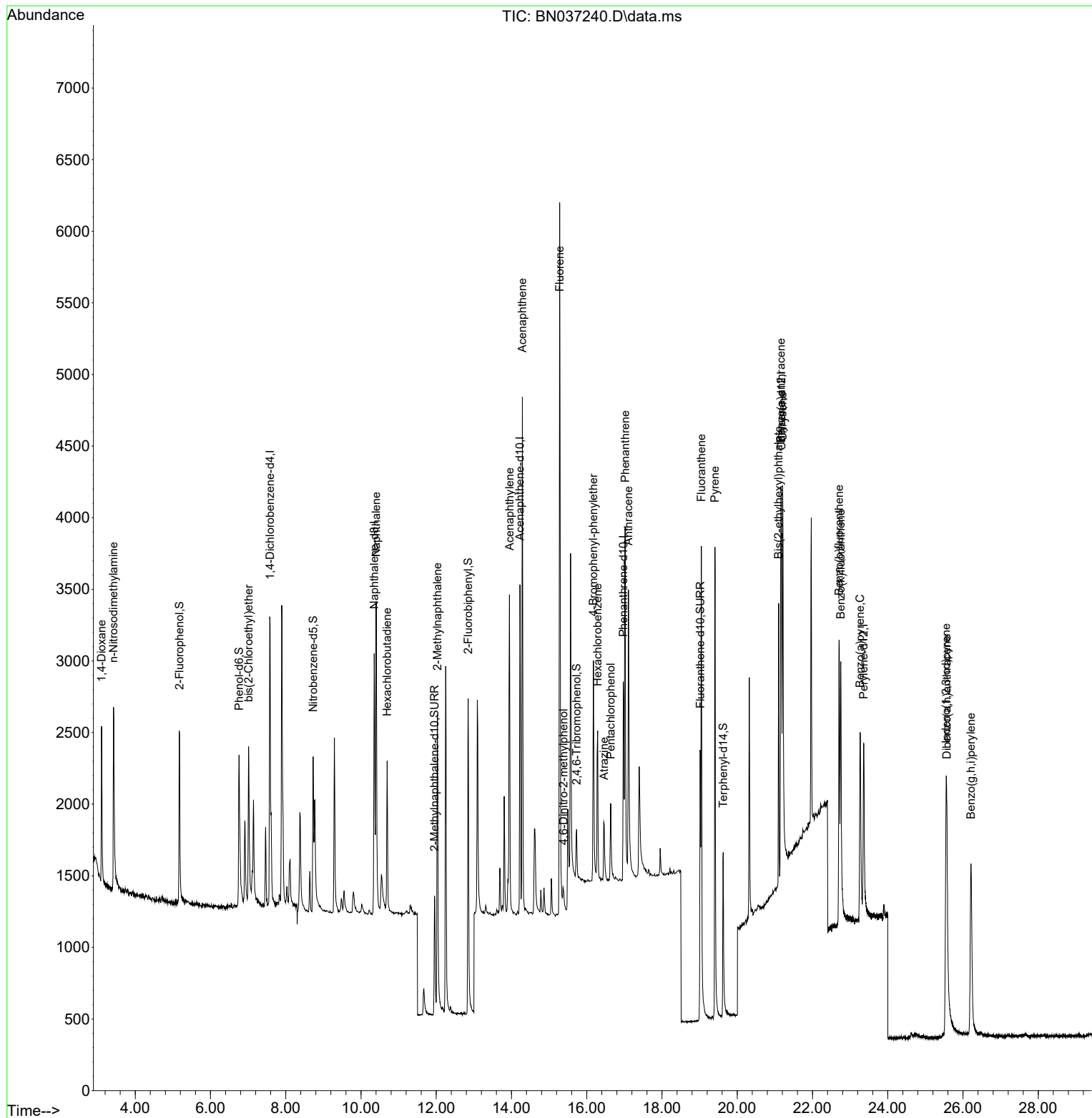
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1101	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2581	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1319	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2396	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1787	0.400	ng	# 0.00
35) Perylene-d12	23.360	264	1797	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	973	0.360	ng	0.00
5) Phenol-d6	6.759	99	1068	0.375	ng	0.00
8) Nitrobenzene-d5	8.728	82	1042	0.408	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1443	0.417	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	226	0.413	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2320	0.419	ng	0.00
27) Fluoranthene-d10	19.017	212	2535	0.404	ng	0.00
31) Terphenyl-d14	19.625	244	1588	0.393	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	533	0.353	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.422	42	1393	0.405	ng	# 94
6) bis(2-Chloroethyl)ether	7.012	93	1005	0.394	ng	92
9) Naphthalene	10.404	128	2951	0.395	ng	98
10) Hexachlorobutadiene	10.693	225	755	0.415	ng	# 97
12) 2-Methylnaphthalene	12.031	142	1743	0.384	ng	99
16) Acenaphthylene	13.946	152	2529	0.391	ng	98
17) Acenaphthene	14.288	154	1605	0.385	ng	98
18) Fluorene	15.282	166	2071	0.386	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	193	0.423	ng	93
21) 4-Bromophenyl-phenylether	16.177	248	591	0.379	ng	97
22) Hexachlorobenzene	16.289	284	711	0.393	ng	95
23) Atrazine	16.463	200	518	0.372	ng	97
24) Pentachlorophenol	16.636	266	337	0.380	ng	96
25) Phenanthrene	17.021	178	2895	0.381	ng	98
26) Anthracene	17.108	178	2630	0.378	ng	98
28) Fluoranthene	19.045	202	3316	0.373	ng	98
30) Pyrene	19.407	202	3339	0.397	ng	98
32) Benzo(a)anthracene	21.162	228	2395	0.397	ng	99
33) Chrysene	21.207	228	2954	0.393	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1731	0.385	ng	100
36) Indeno(1,2,3-cd)pyrene	25.550	276	2982	0.412	ng	98
37) Benzo(b)fluoranthene	22.708	252	2552	0.388	ng	97
38) Benzo(k)fluoranthene	22.749	252	2779	0.366	ng	96
39) Benzo(a)pyrene	23.266	252	2340	0.396	ng	# 94
40) Dibenzo(a,h)anthracene	25.570	278	2263	0.411	ng	98
41) Benzo(g,h,i)perylene	26.210	276	2727	0.406	ng	99

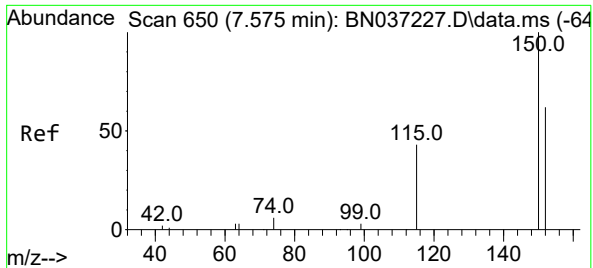
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037240.D
Acq On : 13 Jun 2025 23:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

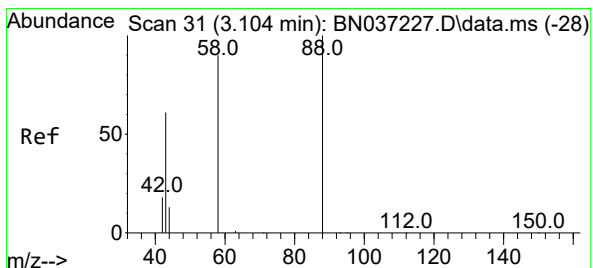
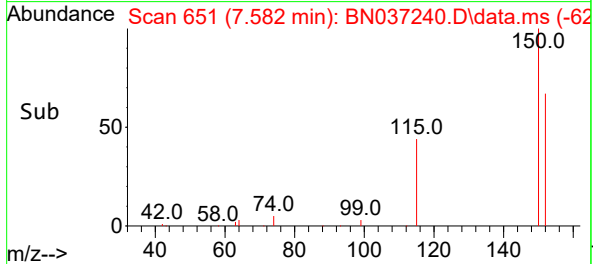
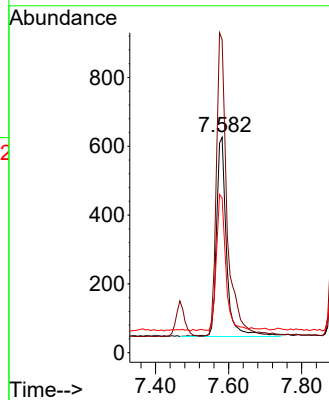
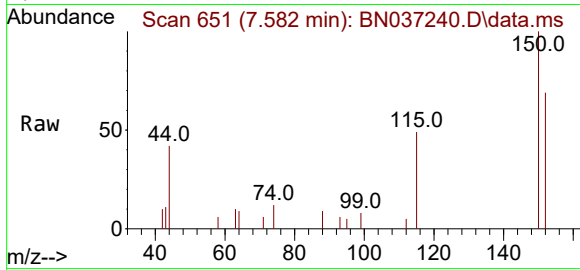




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

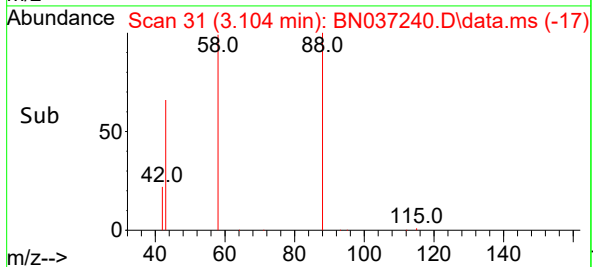
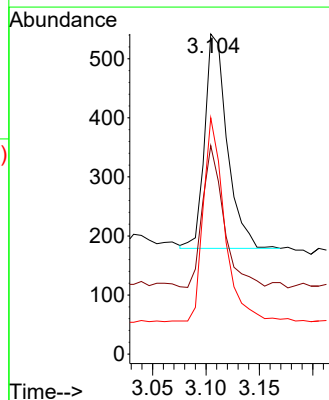
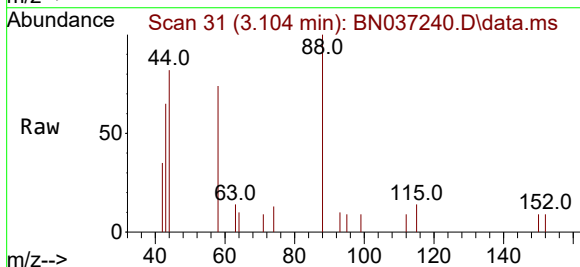
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1101
Ion Ratio Lower Upper
152 100
150 145.4 125.2 187.8
115 71.7 58.4 87.6

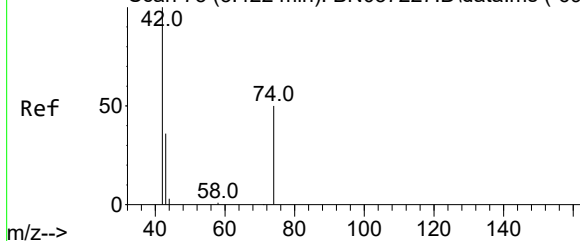


#2
1,4-Dioxane
Concen: 0.353 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion: 88 Resp: 533
Ion Ratio Lower Upper
88 100
43 65.1 52.6 79.0
58 90.2 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.405 ng

RT: 3.422 min Scan# 71

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1393

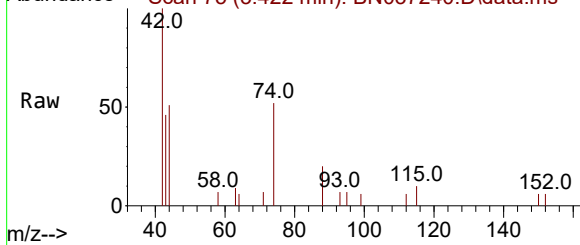
Ion Ratio Lower Upper

42 100

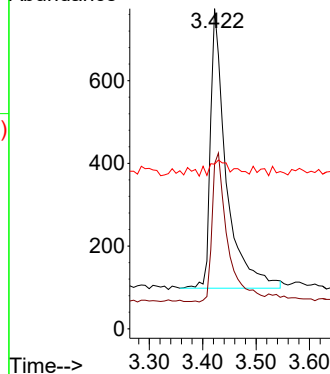
74 51.8 44.6 66.8

44 8.1 3.5 5.3#

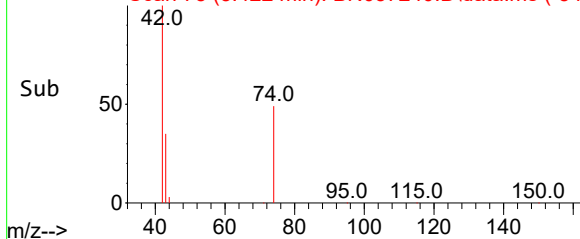
Abundance Scan 75 (3.422 min): BN037240.D\data.ms



Abundance

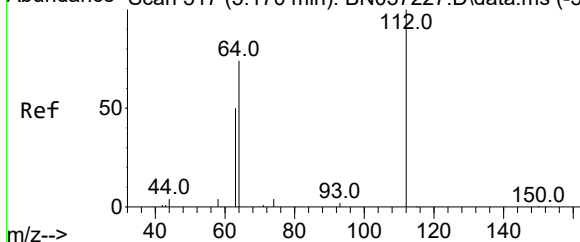


Abundance Scan 75 (3.422 min): BN037240.D\data.ms (-54)



Time-->

Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.360 ng

RT: 5.177 min Scan# 318

Delta R.T. 0.007 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Tgt Ion: 112 Resp: 973

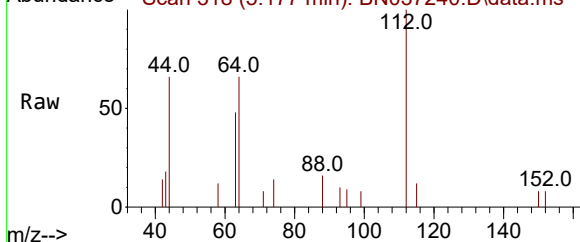
Ion Ratio Lower Upper

112 100

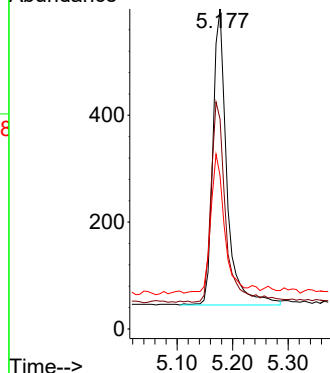
64 71.5 57.2 85.8

63 46.1 39.8 59.6

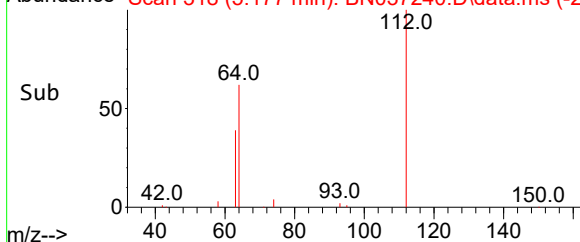
Abundance Scan 318 (5.177 min): BN037240.D\data.ms



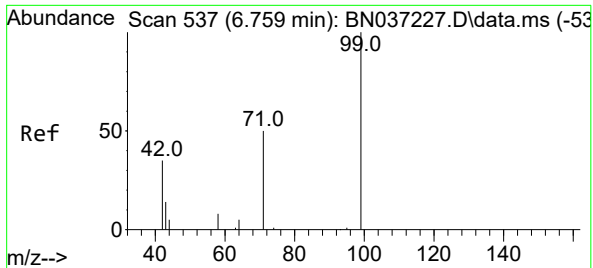
Abundance



Abundance Scan 318 (5.177 min): BN037240.D\data.ms (-28)



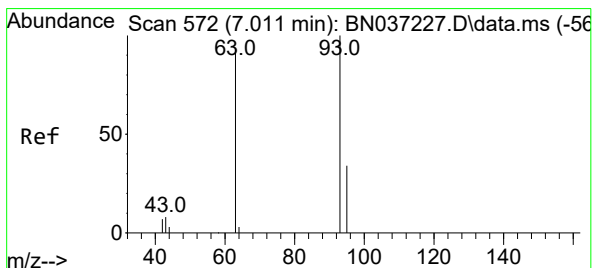
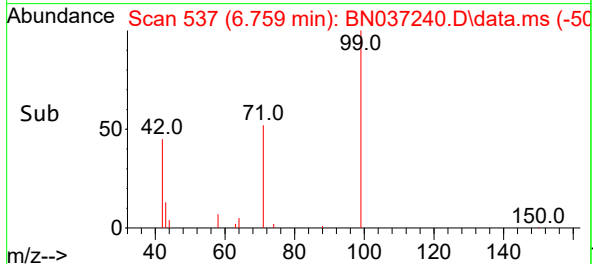
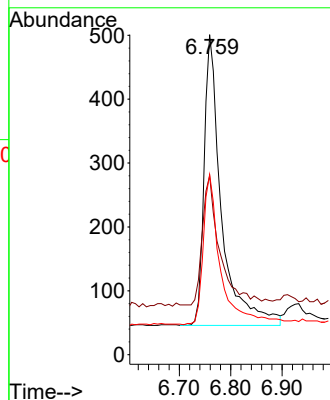
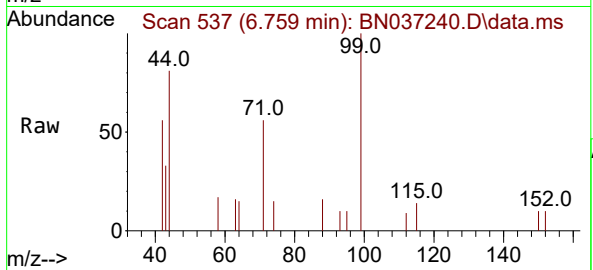
Time-->



#5
Phenol-d6
Concen: 0.375 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

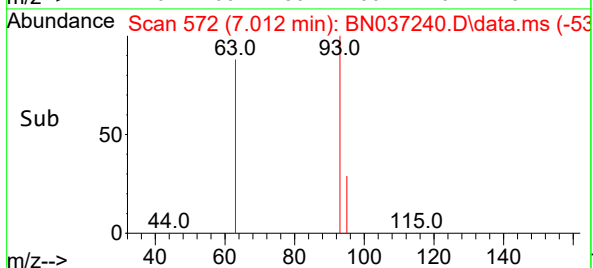
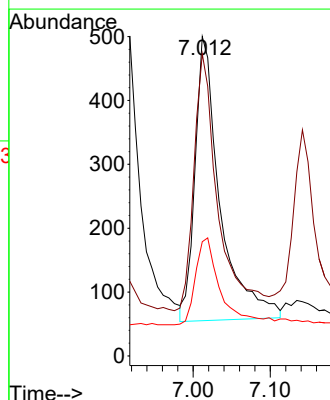
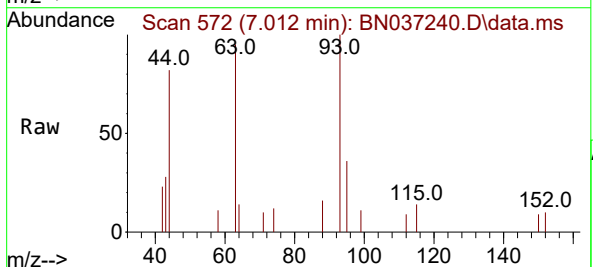
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

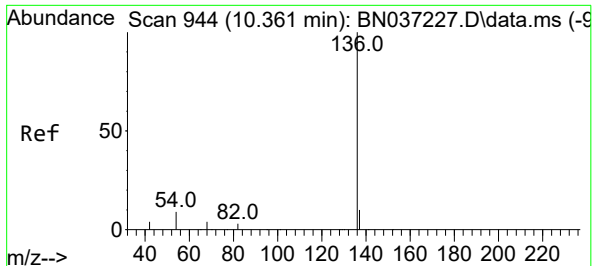
Tgt Ion:	99	Resp:	1068
Ion	Ratio	Lower	Upper
99	100		
42	45.7	36.2	54.4
71	52.2	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.394 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:	93	Resp:	1005
Ion	Ratio	Lower	Upper
93	100		
63	86.4	75.2	112.8
95	30.5	28.3	42.5

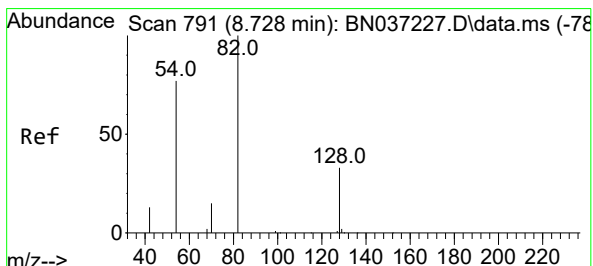
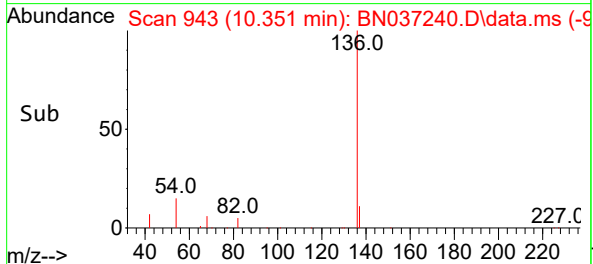
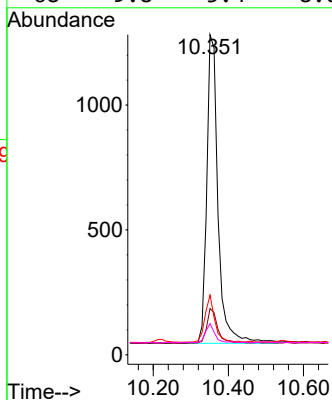
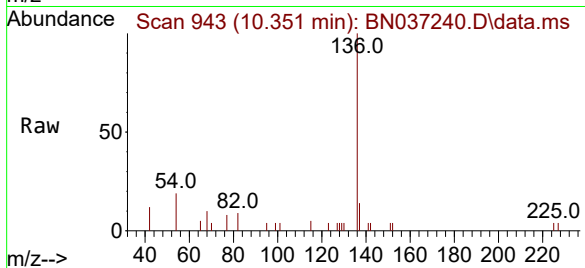




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.010 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

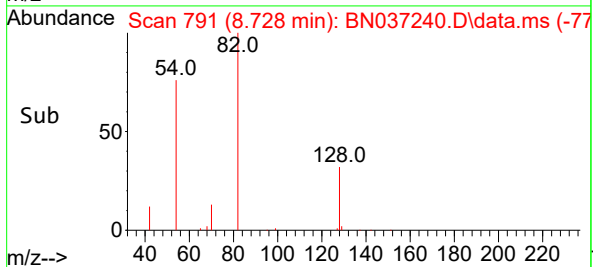
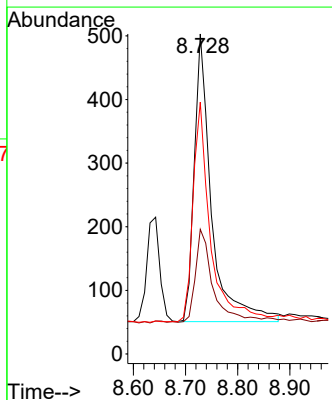
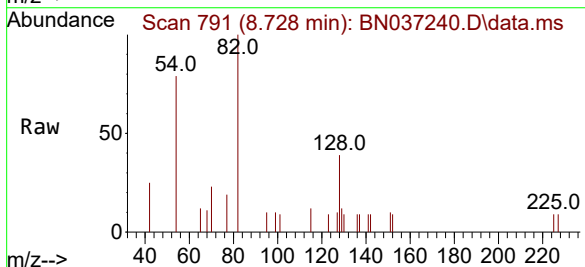
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

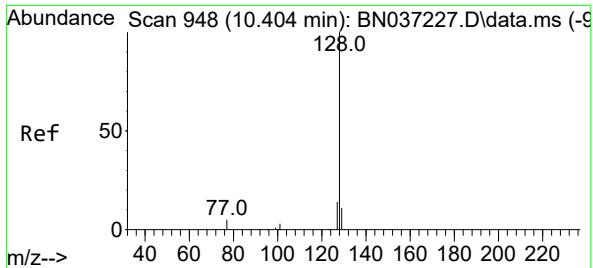
Tgt Ion:	136	Resp:	2581
Ion	Ratio	Lower	Upper
136	100		
137	14.4	10.6	15.8
54	18.6	9.2	13.8#
68	9.8	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.408 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:	82	Resp:	1042
Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.2	46.8
54	78.7	63.3	94.9

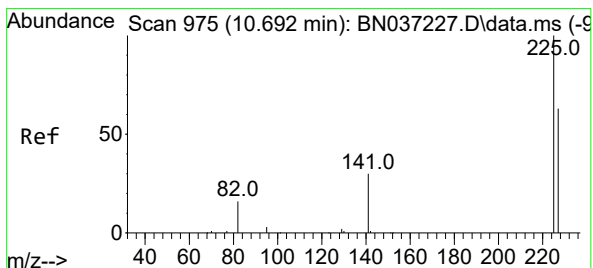
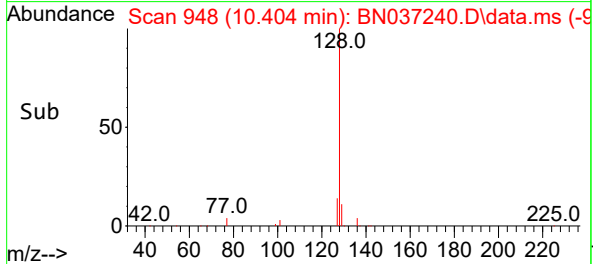
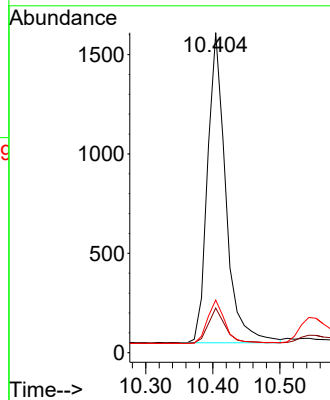
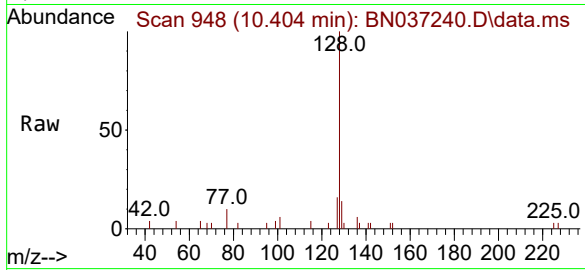




#9
Naphthalene
Concen: 0.395 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

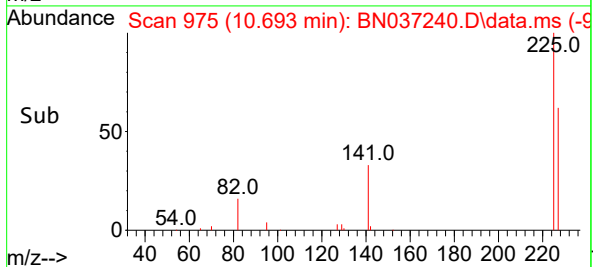
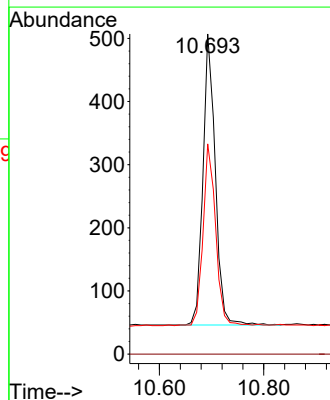
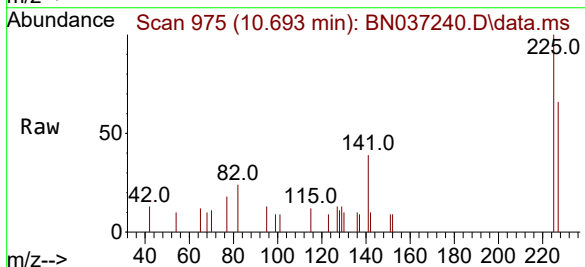
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

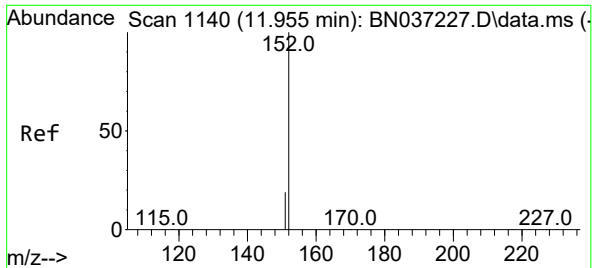
Tgt Ion:	128	Resp:	2951
Ion	Ratio	Lower	Upper
128	100		
129	14.0	10.7	16.1
127	16.5	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.415 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:	225	Resp:	755
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	49.2	73.8

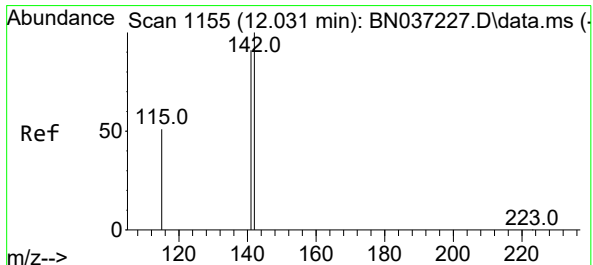
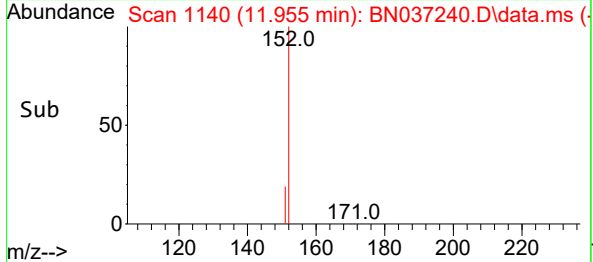
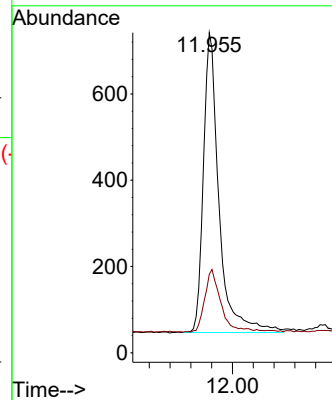
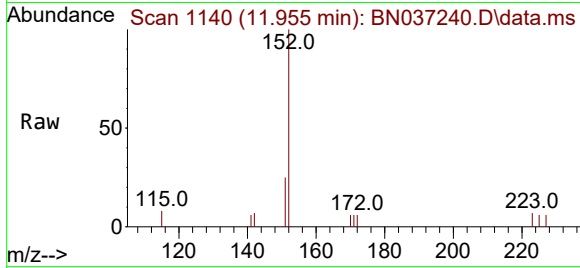




#11
2-Methylnaphthalene-d10
Concen: 0.417 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

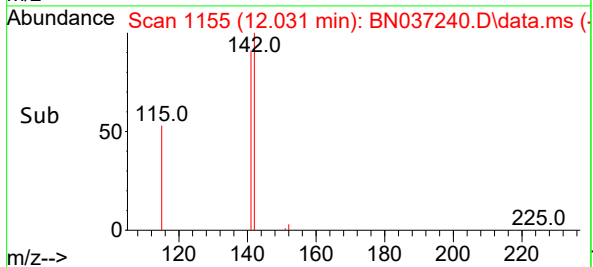
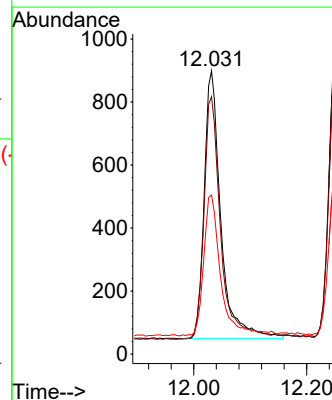
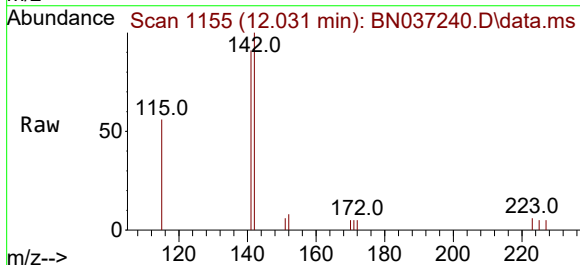
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

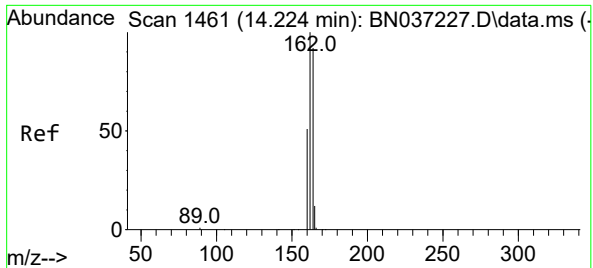
Tgt Ion:152 Resp: 1443
Ion Ratio Lower Upper
152 100
151 20.9 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.384 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:142 Resp: 1743
Ion Ratio Lower Upper
142 100
141 90.9 73.0 109.6
115 56.2 43.3 64.9

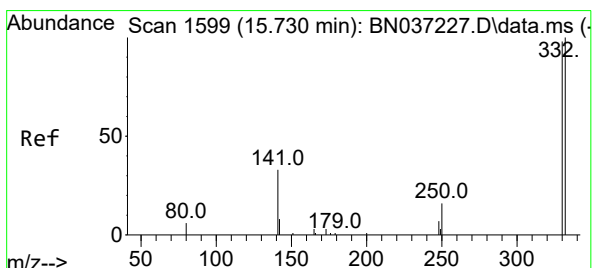
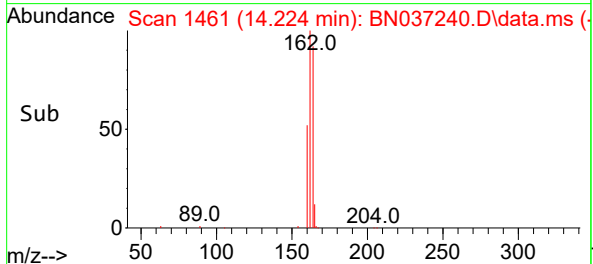
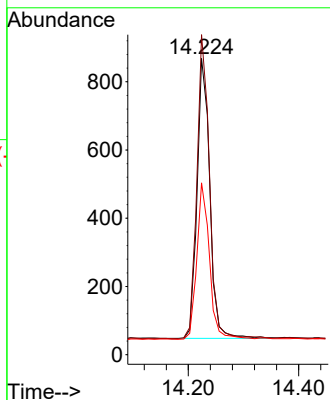
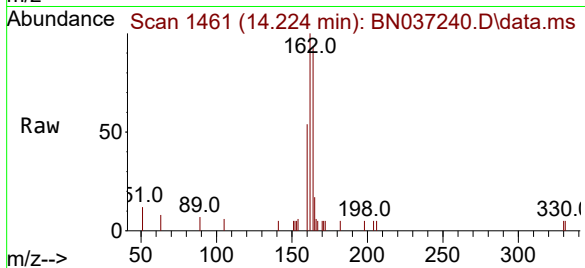




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

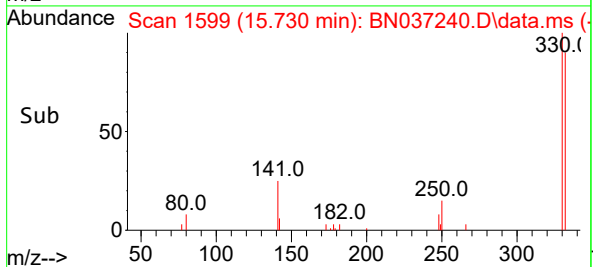
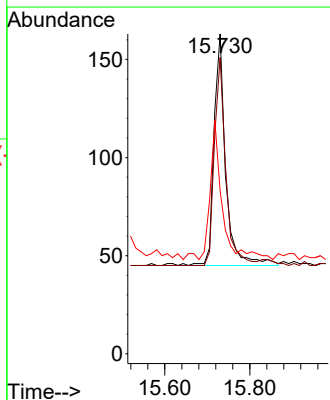
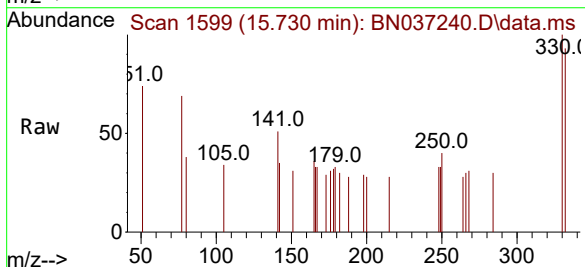
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

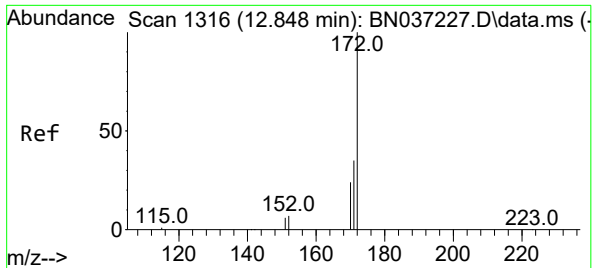
Tgt Ion	Ratio	Lower	Upper
164	100		
162	108.1	86.7	130.1
160	58.1	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.413 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion	Ratio	Lower	Upper
330	100		
332	86.7	74.9	112.3
141	62.4	45.1	67.7

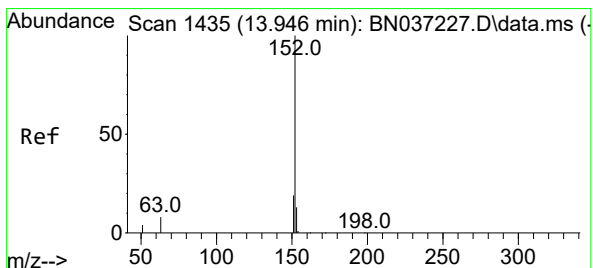
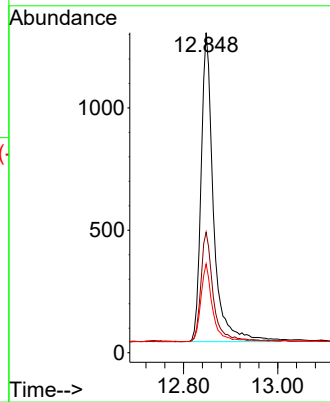
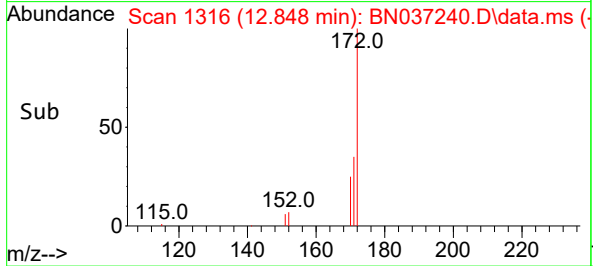
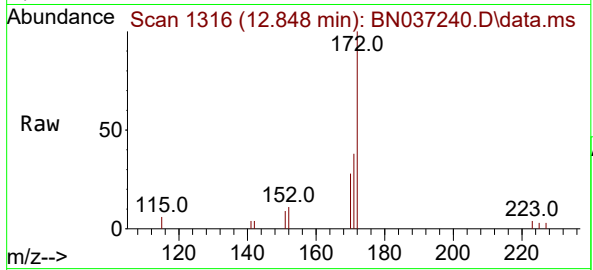




#15
2-Fluorobiphenyl
Concen: 0.419 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

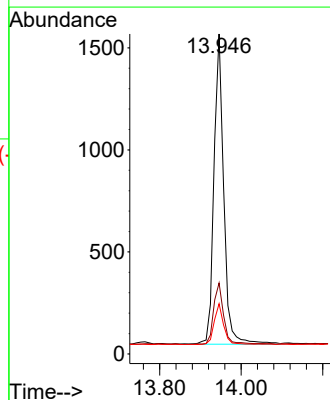
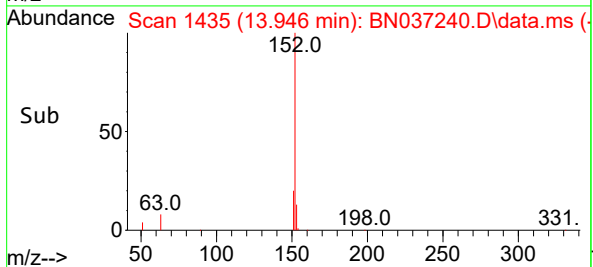
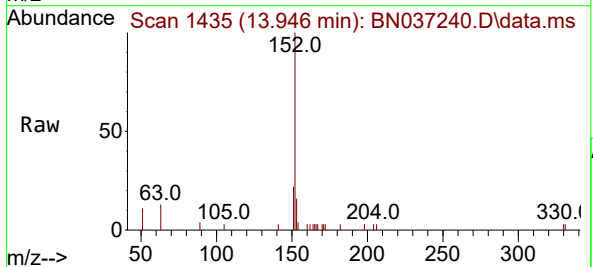
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

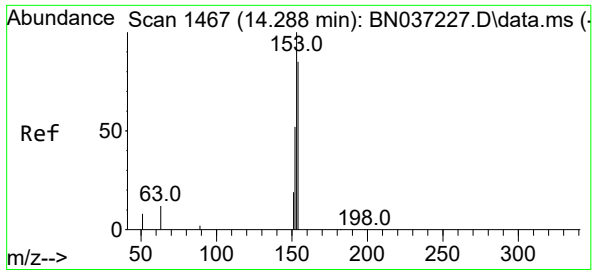
Tgt Ion:	172	Resp:	2320
Ion Ratio	Lower	Upper	
172	100		
171	37.6	29.8	44.8
170	27.8	21.1	31.7



#16
Acenaphthylene
Concen: 0.391 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:	152	Resp:	2529
Ion Ratio	Lower	Upper	
152	100		
151	20.8	15.7	23.5
153	12.9	10.7	16.1

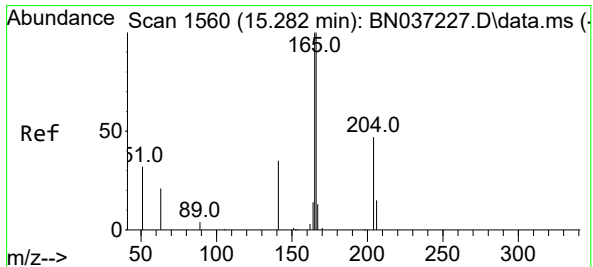
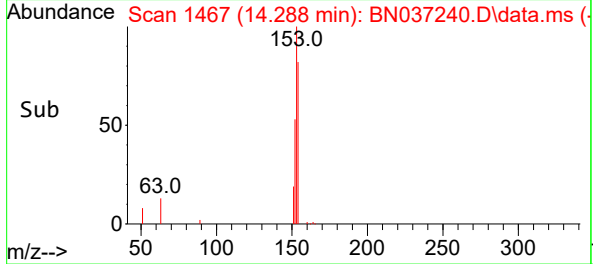
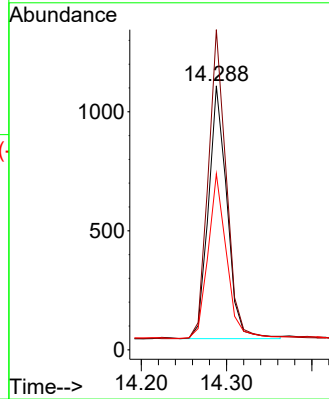
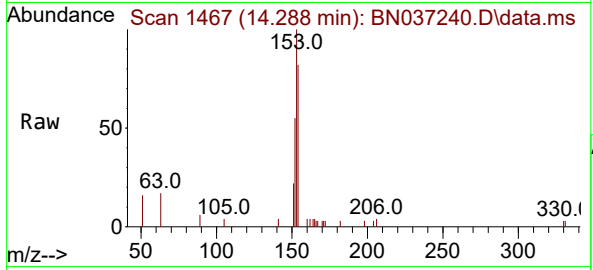




#17
Acenaphthene
Concen: 0.385 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

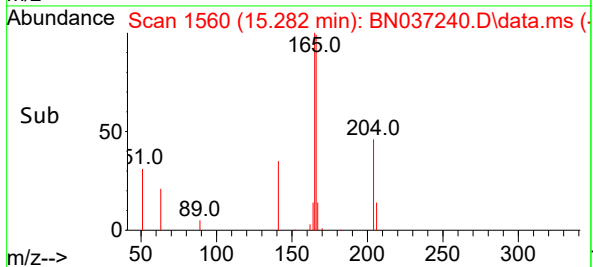
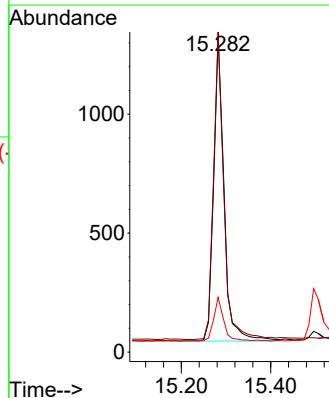
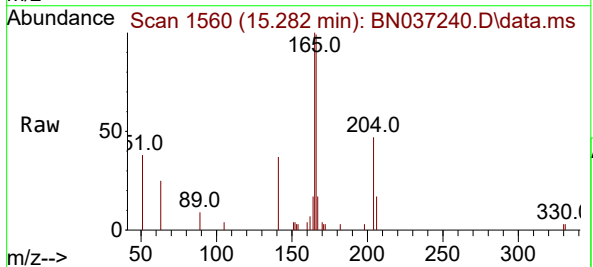
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

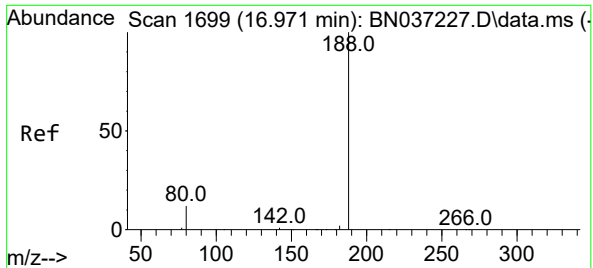
Tgt Ion:154 Resp: 1605
Ion Ratio Lower Upper
154 100
153 120.3 94.6 141.8
152 64.7 49.6 74.4



#18
Fluorene
Concen: 0.386 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:166 Resp: 2071
Ion Ratio Lower Upper
166 100
165 99.7 79.8 119.6
167 13.4 10.8 16.2

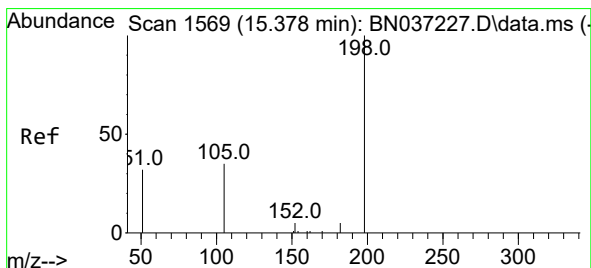
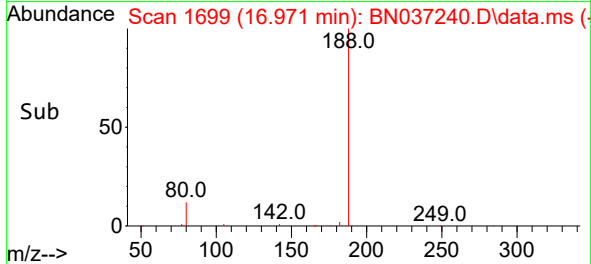
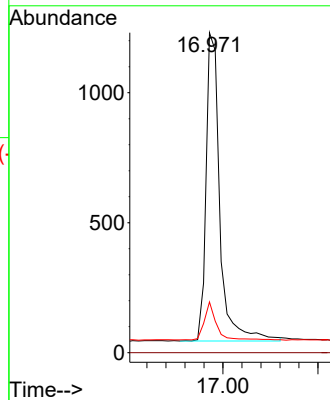
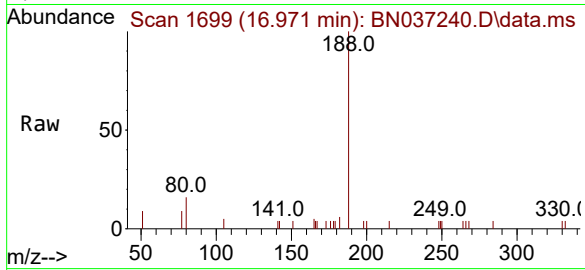




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

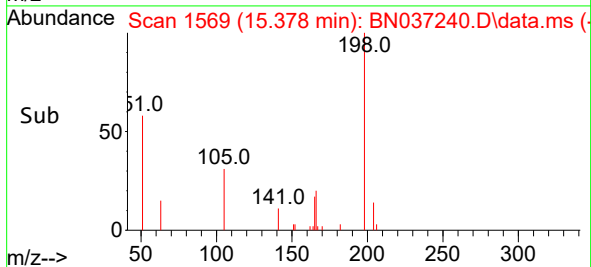
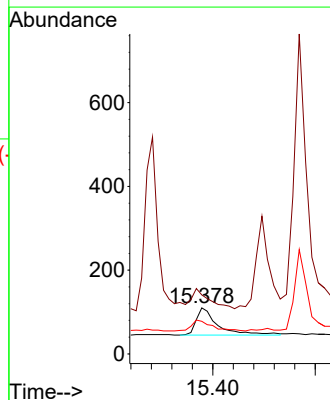
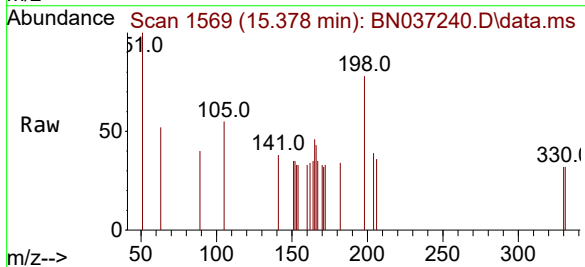
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

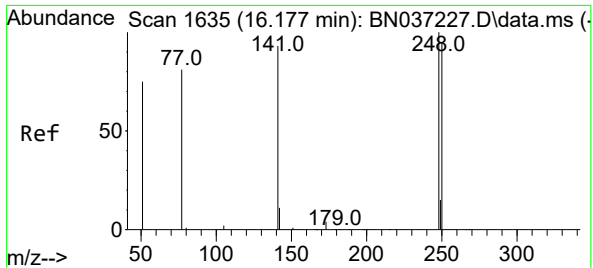
Tgt Ion:188 Resp: 2396
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.8 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.423 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:198 Resp: 193
Ion Ratio Lower Upper
198 100
51 128.2 111.2 166.8
105 70.9 54.0 81.0

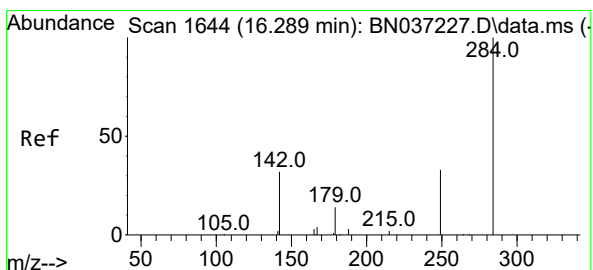
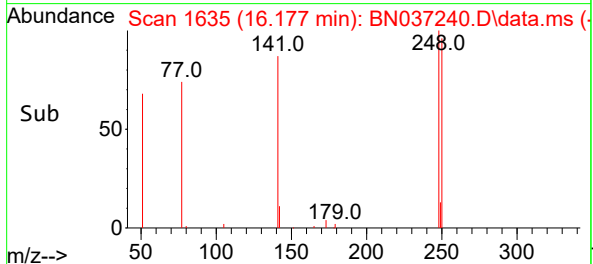
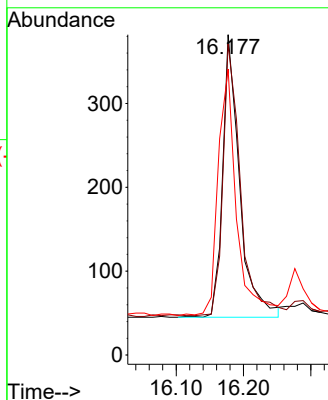
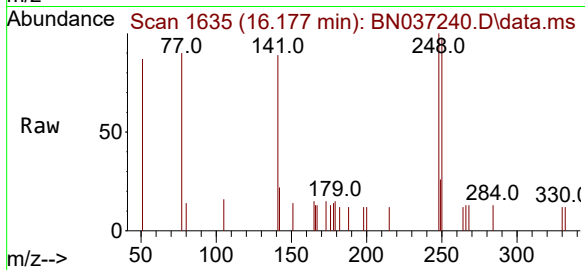




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

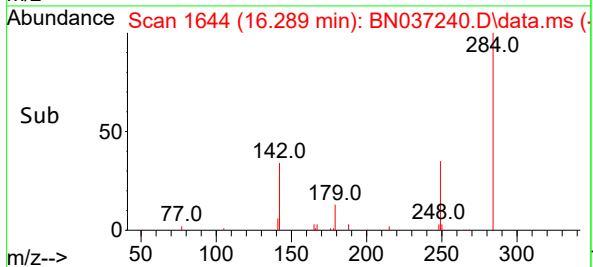
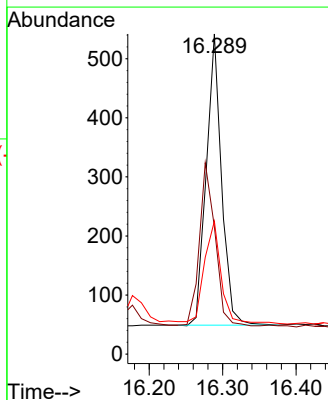
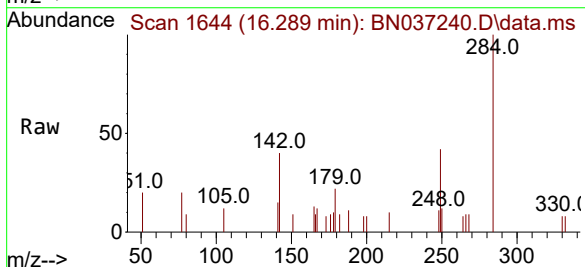
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

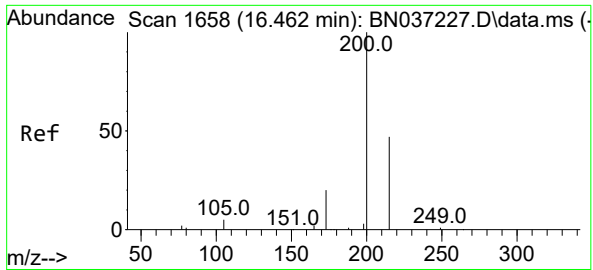
Tgt Ion:248 Resp: 591
Ion Ratio Lower Upper
248 100
250 97.1 76.8 115.2
141 89.3 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:284 Resp: 711
Ion Ratio Lower Upper
284 100
142 57.4 43.8 65.6
249 39.7 28.4 42.6

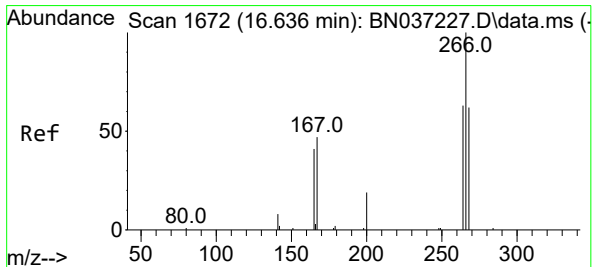
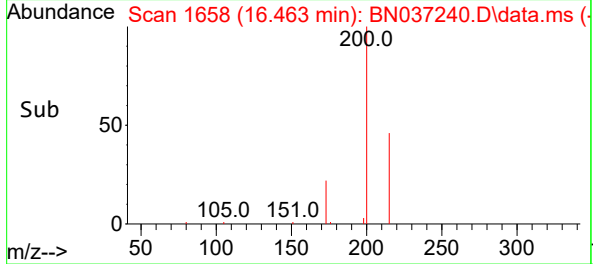
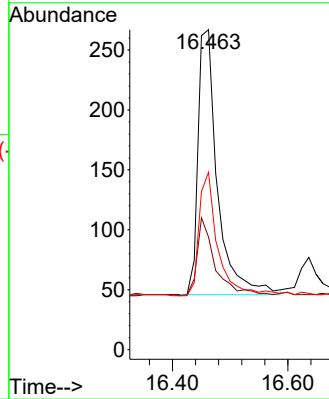
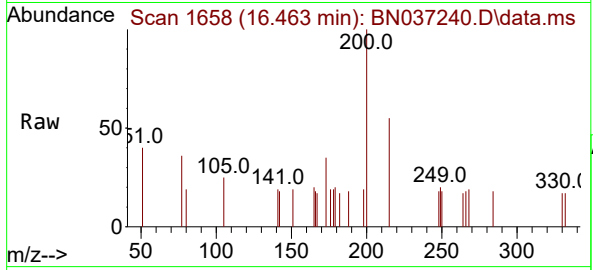




#23
Atrazine
Concen: 0.372 ng
RT: 16.463 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

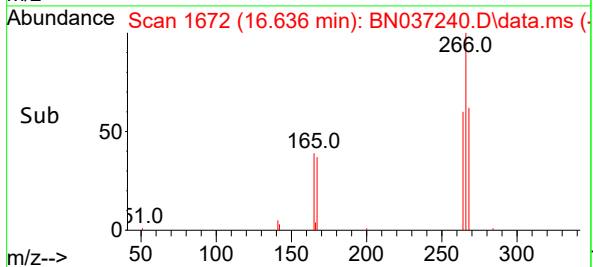
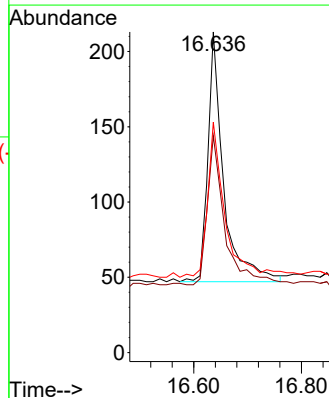
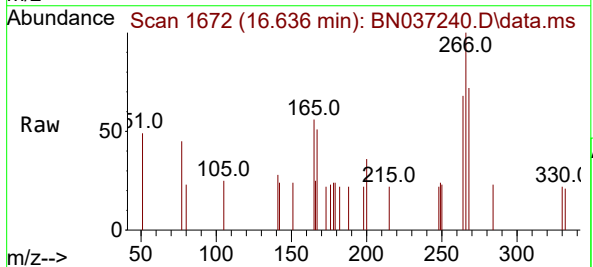
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

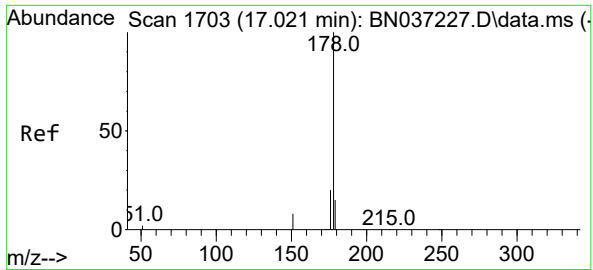
Tgt Ion	Ratio	Lower	Upper
200	100		
173	35.2	25.1	37.7
215	55.4	43.7	65.5



#24
Pentachlorophenol
Concen: 0.380 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion	Ratio	Lower	Upper
266	100		
264	66.2	49.2	73.8
268	68.8	53.4	80.2

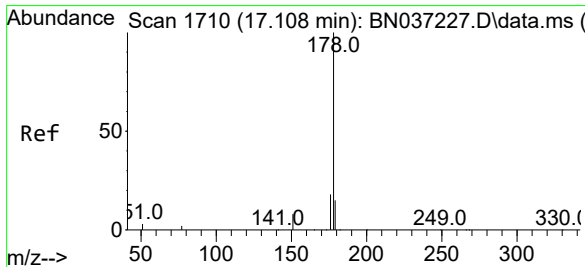
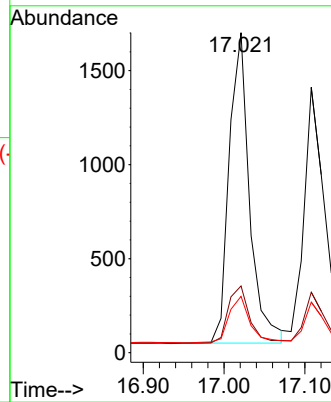
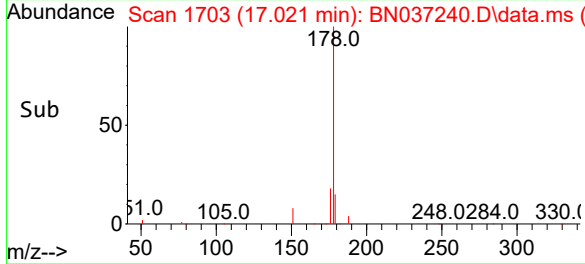
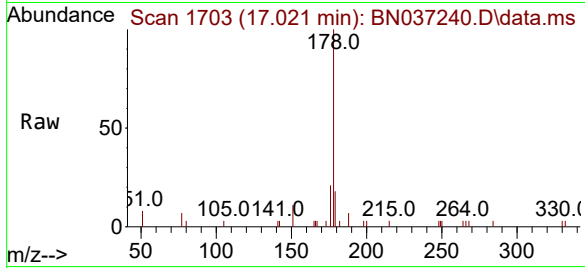




#25
Phenanthrene
Concen: 0.381 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

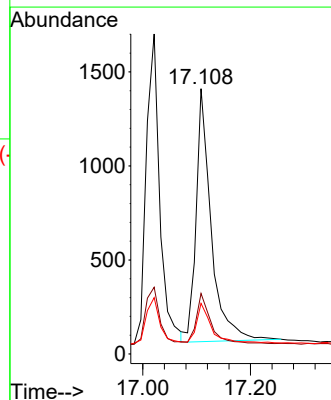
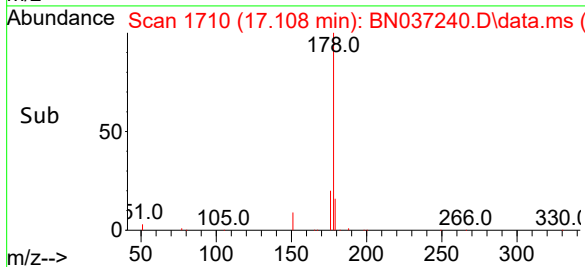
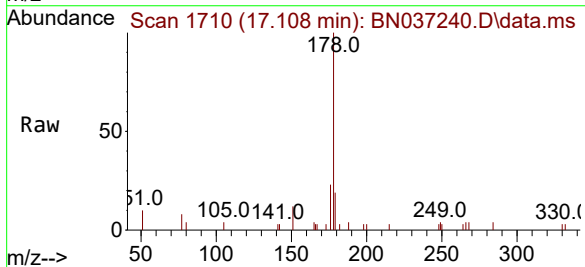
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

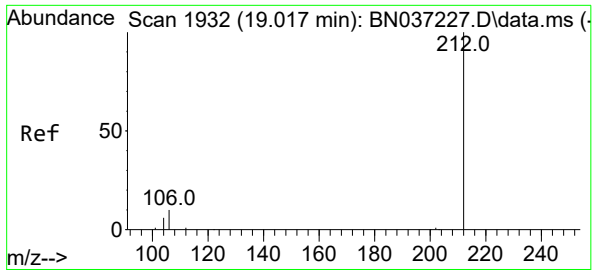
Tgt Ion:	178	Resp:	2895
Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.3	24.5
179	15.4	12.6	18.8



#26
Anthracene
Concen: 0.378 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:	178	Resp:	2630
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.1	22.7
179	15.9	12.4	18.6





#27

Fluoranthene-d10

Concen: 0.404 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

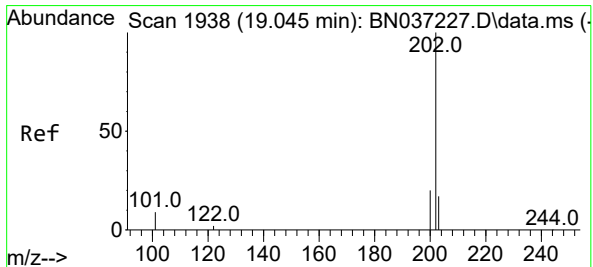
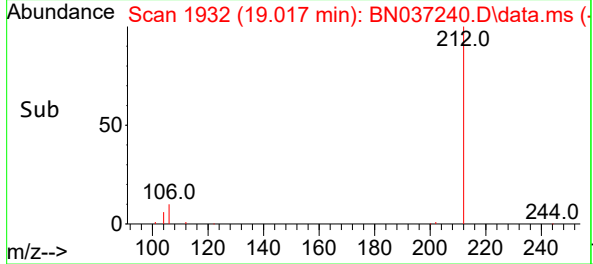
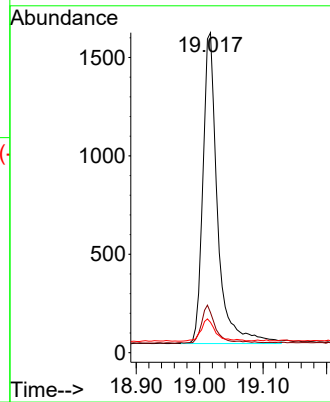
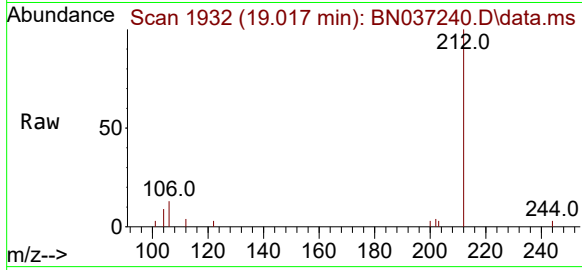
Tgt Ion:212 Resp: 2535

Ion Ratio Lower Upper

212 100

106 11.5 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.373 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

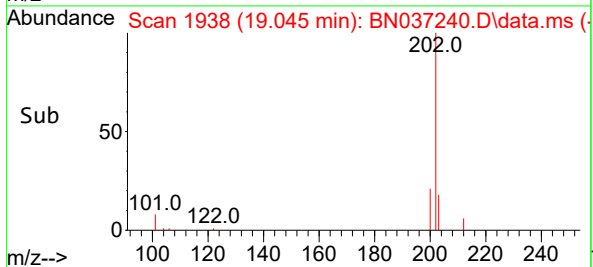
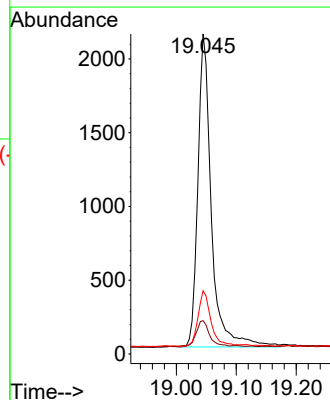
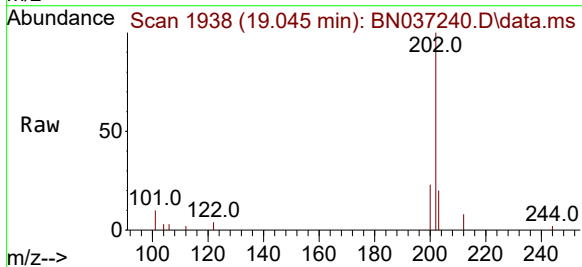
Tgt Ion:202 Resp: 3316

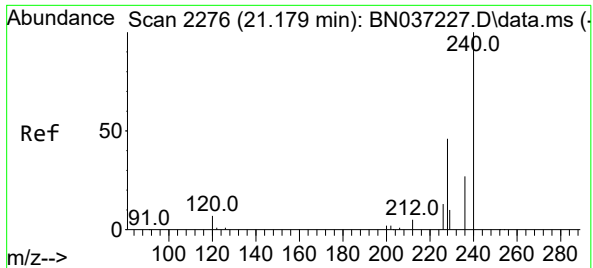
Ion Ratio Lower Upper

202 100

101 8.7 7.1 10.7

203 17.3 13.0 19.6

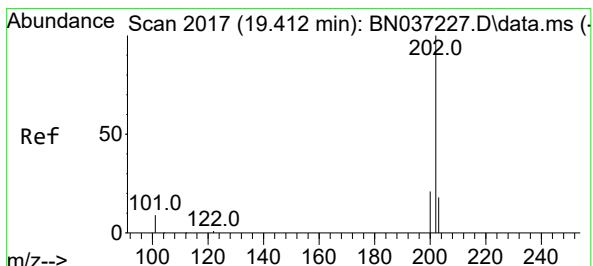
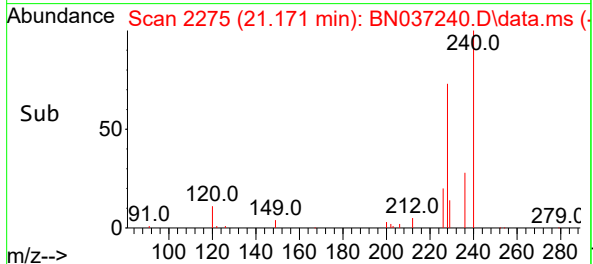
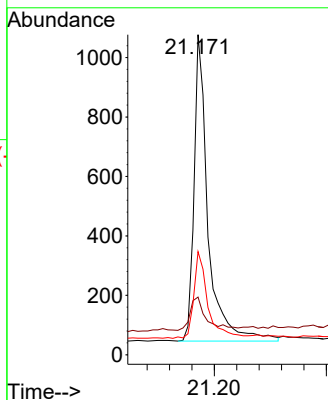
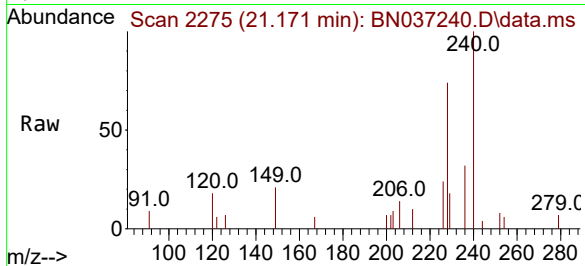




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

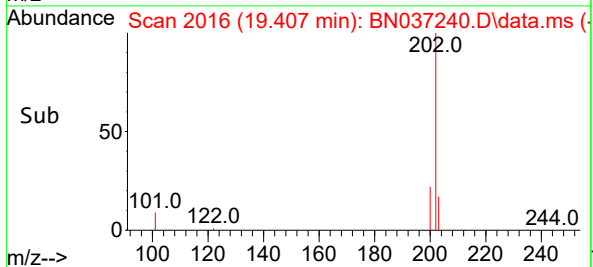
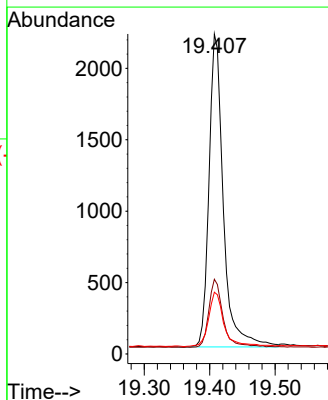
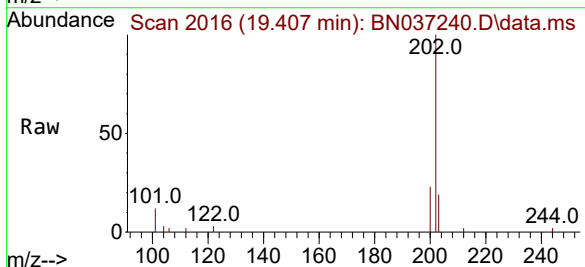
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

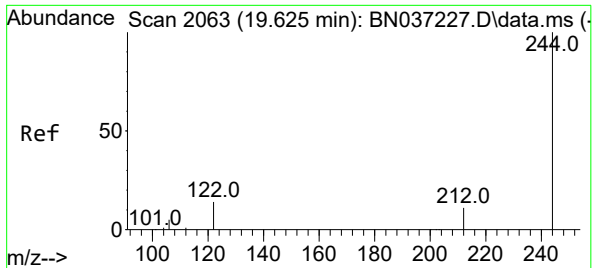
Tgt Ion:240 Resp: 1787
Ion Ratio Lower Upper
240 100
120 18.0 11.3 16.9#
236 32.2 24.4 36.6



#30
Pyrene
Concen: 0.397 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.004 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:202 Resp: 3339
Ion Ratio Lower Upper
202 100
200 22.0 17.2 25.8
203 18.8 14.3 21.5

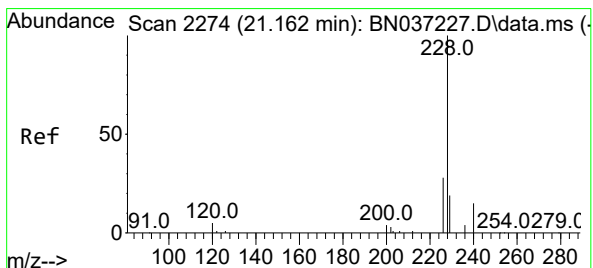
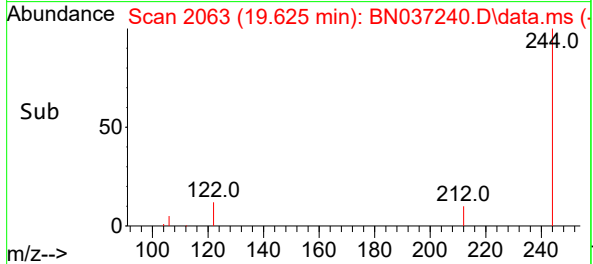
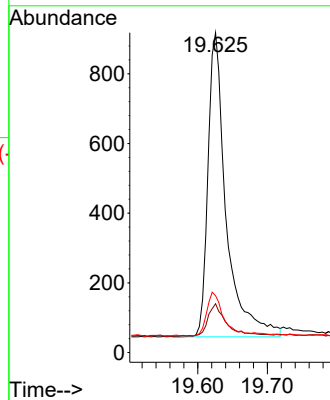
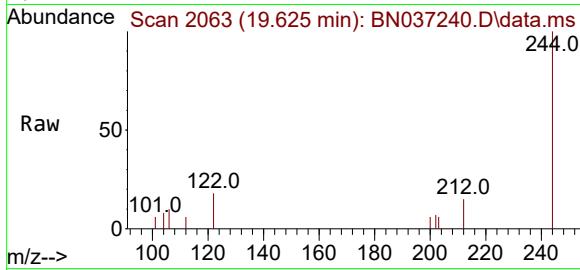




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

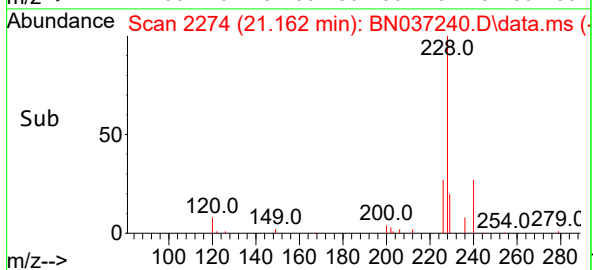
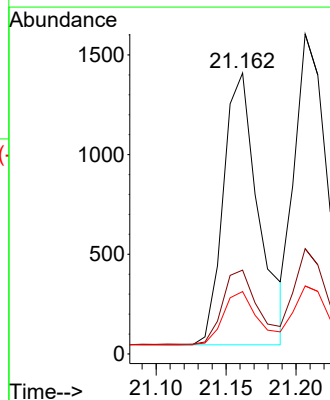
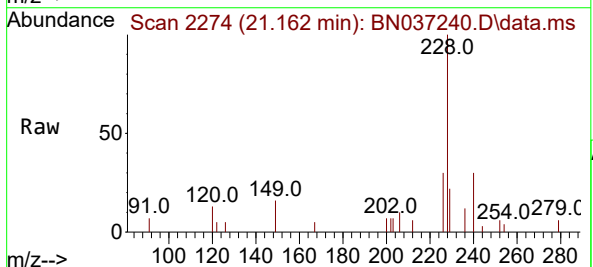
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

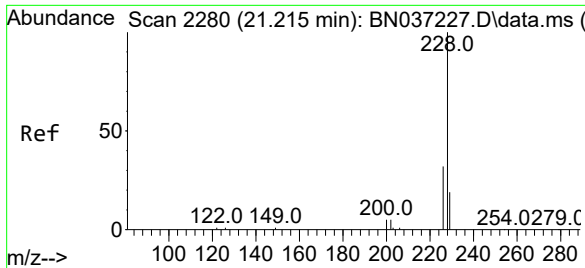
Tgt Ion:244	Resp:	1588
Ion Ratio	Lower	Upper
244	100	
212	15.3	12.2 18.2
122	17.8	14.3 21.5



#32
Benzo(a)anthracene
Concen: 0.397 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:228	Resp:	2395
Ion Ratio	Lower	Upper
228	100	
226	29.9	23.8 35.8
229	22.2	17.0 25.4





#33

Chrysene

Concen: 0.393 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

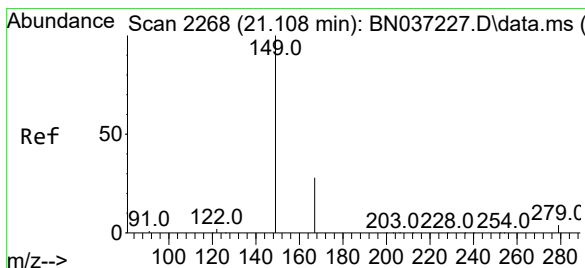
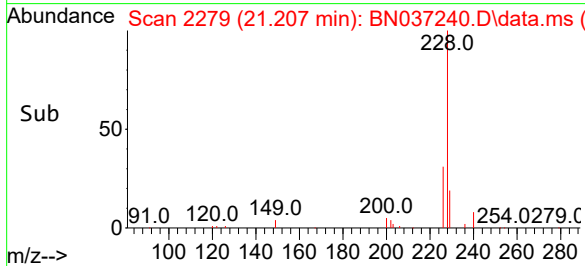
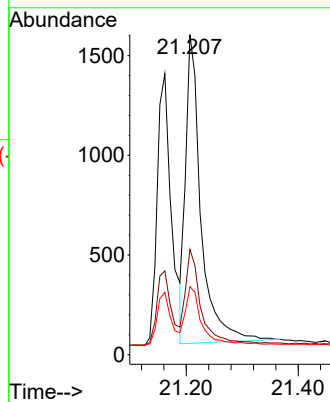
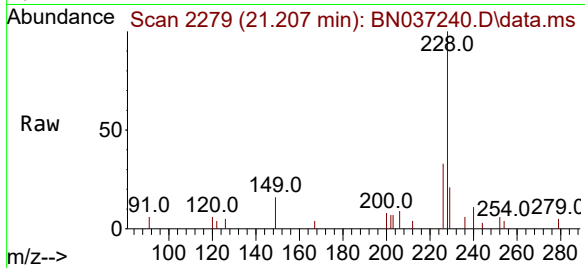
Tgt Ion:228 Resp: 2954

Ion Ratio Lower Upper

228 100

226 32.9 25.8 38.6

229 21.2 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.385 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

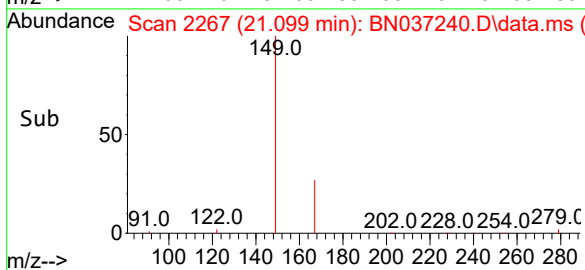
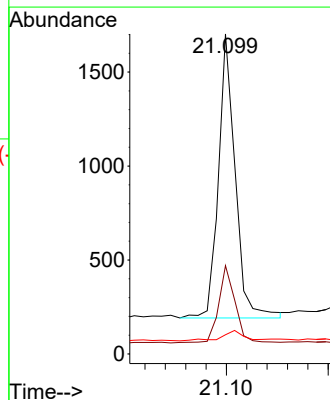
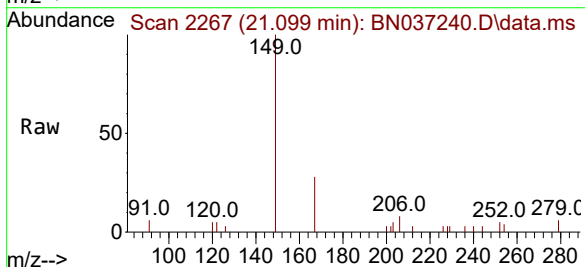
Tgt Ion:149 Resp: 1731

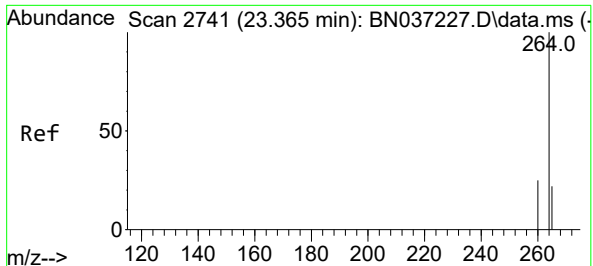
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.7 3.3 4.9

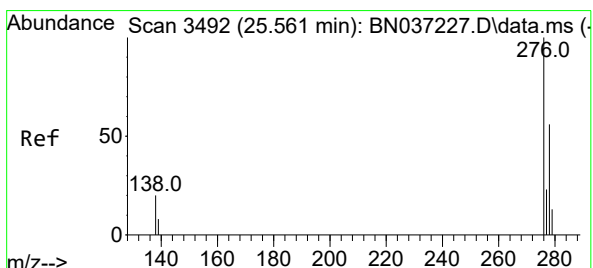
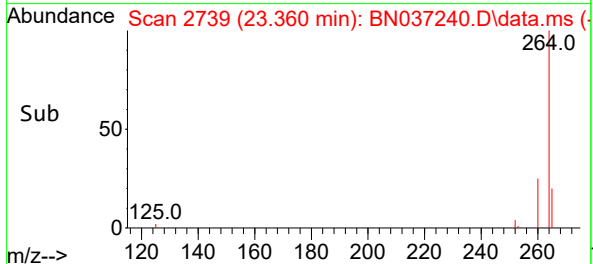
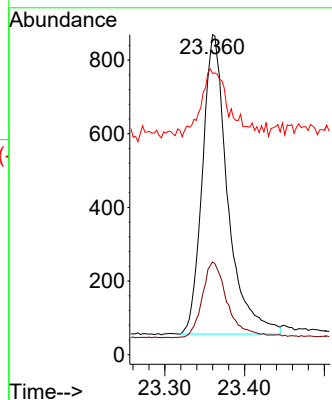
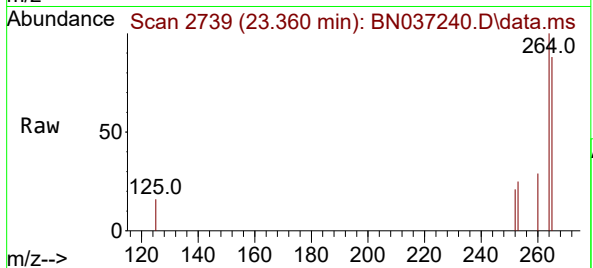




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.360 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

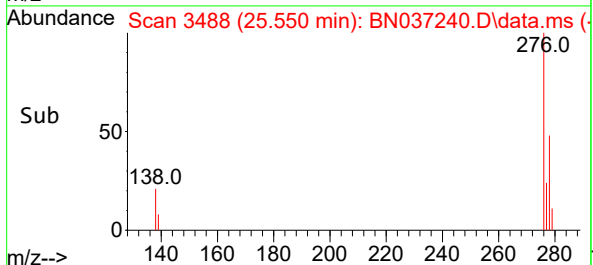
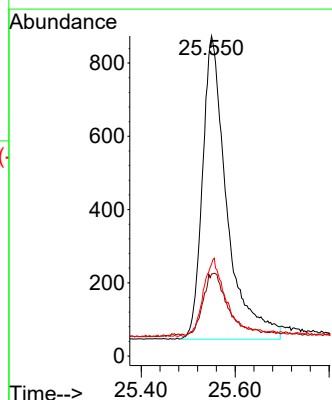
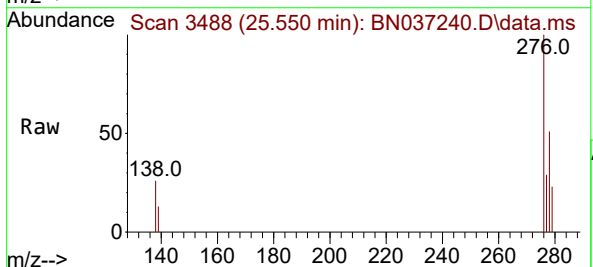
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

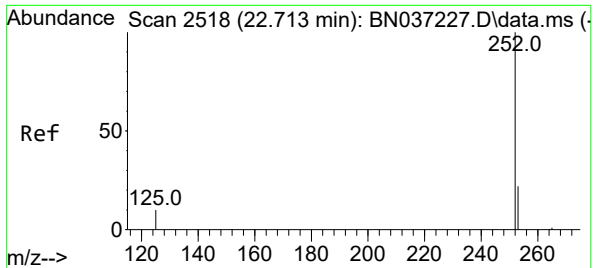
Tgt Ion:264 Resp: 1797
Ion Ratio Lower Upper
264 100
260 29.0 22.8 34.2
265 87.9 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.550 min Scan# 3488
Delta R.T. -0.011 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion:276 Resp: 2982
Ion Ratio Lower Upper
276 100
138 20.1 16.8 25.2
277 23.2 19.5 29.3

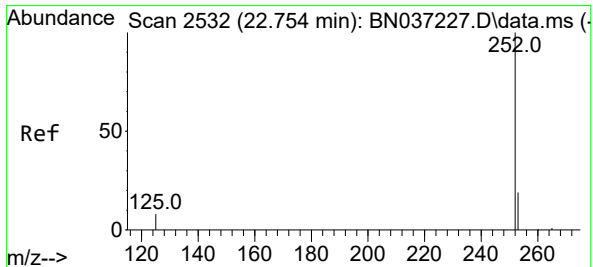
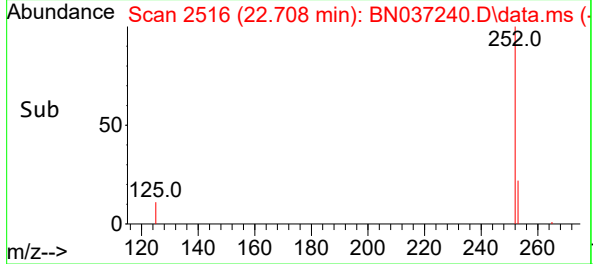
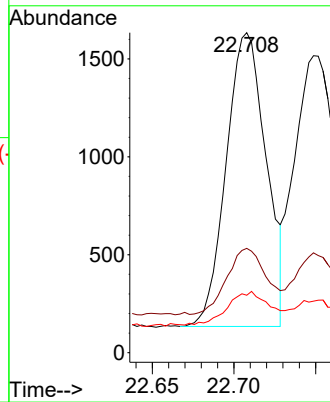
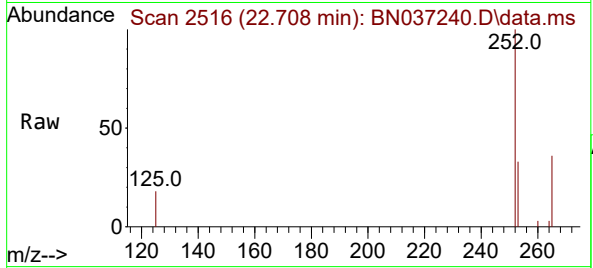




#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 22.708 min Scan# 2516
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

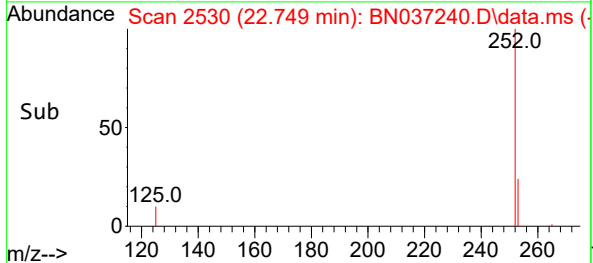
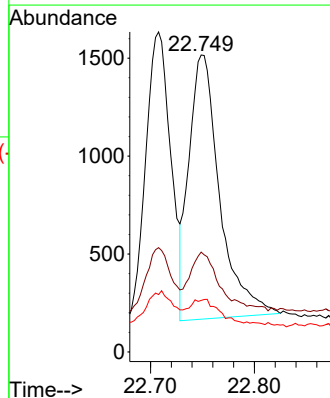
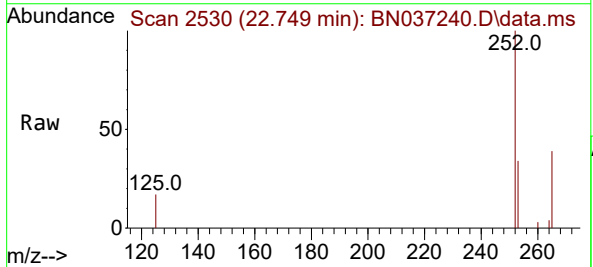
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

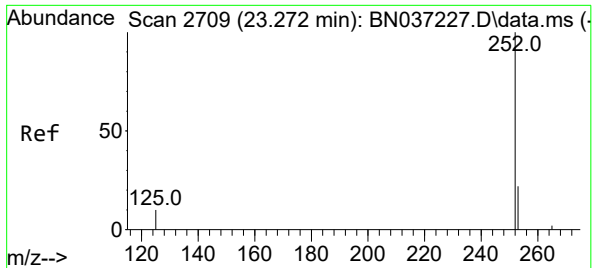
Tgt Ion	Ratio	Lower	Upper
252	100		
253	32.6	24.9	37.3
125	17.9	12.9	19.3



#38
Benzo(k)fluoranthene
Concen: 0.366 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037240.D
Acq: 13 Jun 2025 23:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	33.6	24.6	37.0
125	17.3	13.4	20.2





#39

Benzo(a)pyrene

Concen: 0.396 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

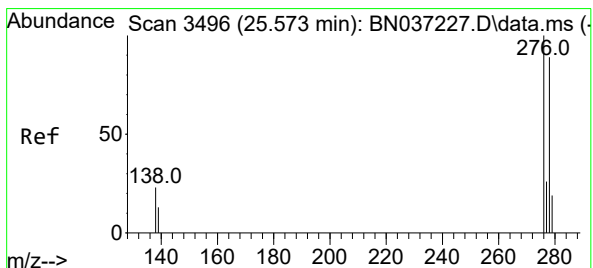
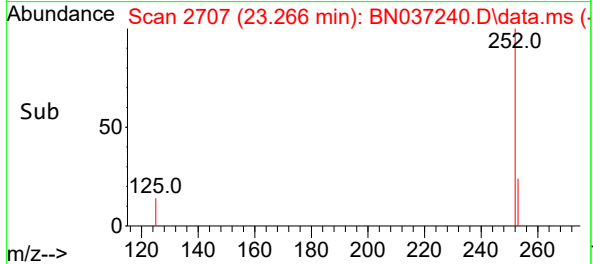
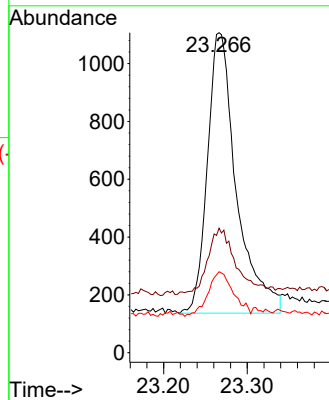
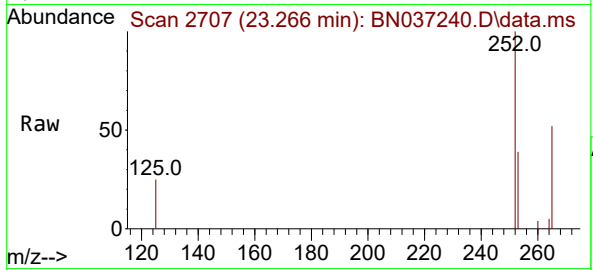
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	2340
Ion Ratio	Lower	Upper
252	100	
253	38.9	29.4 44.2
125	25.3	16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.411 ng

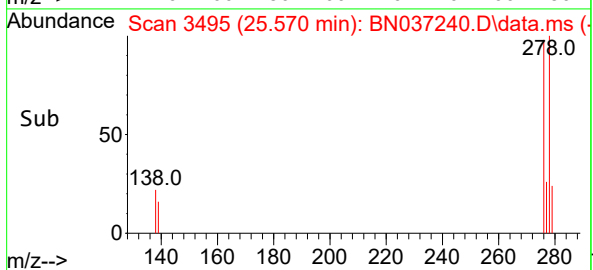
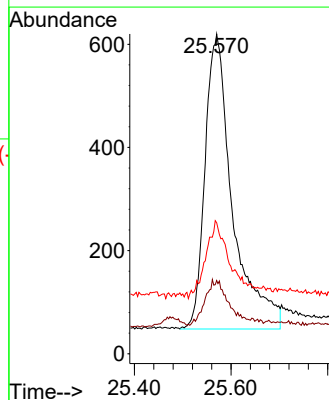
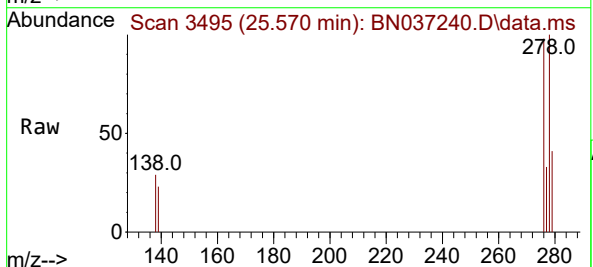
RT: 25.570 min Scan# 3495

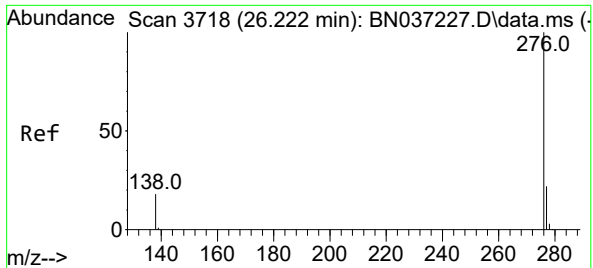
Delta R.T. -0.003 min

Lab File: BN037240.D

Acq: 13 Jun 2025 23:55

Tgt Ion:278	Resp:	2263
Ion Ratio	Lower	Upper
278	100	
139	22.9	17.8 26.6
279	41.0	31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037240.D

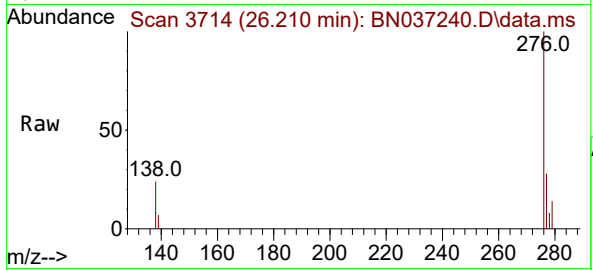
Acq: 13 Jun 2025 23:55

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



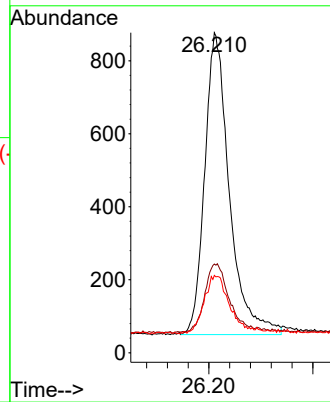
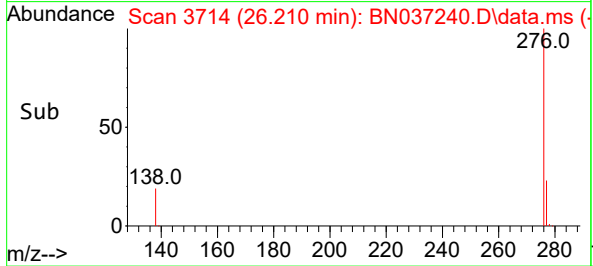
Tgt Ion:276 Resp: 2727

Ion Ratio Lower Upper

276 100

277 27.7 22.0 33.0

138 24.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037240.D
 Acq On : 13 Jun 2025 23:55
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 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	86	0.00
2	1,4-Dioxane	0.549	0.484	11.8	79	0.00
3	n-Nitrosodimethylamine	1.250	1.265	-1.2	85	0.00
4 S	2-Fluorophenol	0.982	0.884	10.0	80	0.00
5 S	Phenol-d6	1.035	0.970	6.3	86	0.00
6	bis(2-Chloroethyl)ether	0.927	0.913	1.5	90	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.395	0.404	-2.3	84	0.00
9	Naphthalene	1.158	1.143	1.3	81	0.00
10	Hexachlorobutadiene	0.282	0.293	-3.9	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.559	-4.1	81	0.00
12	2-Methylnaphthalene	0.704	0.675	4.1	77	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.166	0.171	-3.0	76	0.00
15 S	2-Fluorobiphenyl	1.681	1.759	-4.6	79	0.00
16	Acenaphthylene	1.960	1.917	2.2	78	0.00
17	Acenaphthene	1.265	1.217	3.8	74	0.00
18	Fluorene	1.625	1.570	3.4	75	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	75	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.081	12.0	91	0.00
21	4-Bromophenyl-phenylether	0.261	0.247	5.4	76	0.00
22	Hexachlorobenzene	0.302	0.297	1.7	72	0.00
23	Atrazine	0.232	0.216	6.9	73	0.00
24	Pentachlorophenol	0.148	0.141	4.7	85	0.00
25	Phenanthrene	1.269	1.208	4.8	76	0.00
26	Anthracene	1.161	1.098	5.4	76	0.00
27 SURR	Fluoranthene-d10	1.046	1.058	-1.1	75	0.00
28	Fluoranthene	1.485	1.384	6.8	74	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	78	0.00
30	Pyrene	1.881	1.868	0.7	74	0.00
31 S	Terphenyl-d14	0.904	0.889	1.7	74	0.00
32	Benzo(a)anthracene	1.351	1.340	0.8	86	0.00
33	Chrysene	1.683	1.653	1.8	76	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.969	3.7	74	0.00
35 I	Perylene-d12	1.000	1.000	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.659	-2.9	92	-0.01
37	Benzo(b)fluoranthene	1.463	1.420	2.9	86	0.00
38	Benzo(k)fluoranthene	1.689	1.546	8.5	79	0.00
39 C	Benzo(a)pyrene	1.316	1.302	1.1	88	0.00
40	Dibenzo(a,h)anthracene	1.227	1.259	-2.6	100	0.00
41	Benzo(g,h,i)perylene	1.496	1.518	-1.5	88	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037240.D
Acq On : 13 Jun 2025 23:55
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 14 02:05:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	86	0.00
2	1,4-Dioxane	0.400	0.353	11.8	79	0.00
3	n-Nitrosodimethylamine	0.400	0.405	-1.3	85	0.00
4 S	2-Fluorophenol	0.400	0.360	10.0	80	0.00
5 S	Phenol-d6	0.400	0.375	6.3	86	0.00
6	bis(2-Chloroethyl)ether	0.400	0.394	1.5	90	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	80	-0.01
8 S	Nitrobenzene-d5	0.400	0.408	-2.0	84	0.00
9	Naphthalene	0.400	0.395	1.3	81	0.00
10	Hexachlorobutadiene	0.400	0.415	-3.7	78	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.417	-4.2	81	0.00
12	2-Methylnaphthalene	0.400	0.384	4.0	77	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	76	0.00
14 S	2,4,6-Tribromophenol	0.400	0.413	-3.2	76	0.00
15 S	2-Fluorobiphenyl	0.400	0.419	-4.7	79	0.00
16	Acenaphthylene	0.400	0.391	2.3	78	0.00
17	Acenaphthene	0.400	0.385	3.8	74	0.00
18	Fluorene	0.400	0.386	3.5	75	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	75	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.423	-5.7	91	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	76	0.00
22	Hexachlorobenzene	0.400	0.393	1.8	72	0.00
23	Atrazine	0.400	0.372	7.0	73	0.00
24	Pentachlorophenol	0.400	0.380	5.0	85	0.00
25	Phenanthrene	0.400	0.381	4.8	76	0.00
26	Anthracene	0.400	0.378	5.5	76	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	75	0.00
28	Fluoranthene	0.400	0.373	6.8	74	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	78	0.00
30	Pyrene	0.400	0.397	0.8	74	0.00
31 S	Terphenyl-d14	0.400	0.393	1.8	74	0.00
32	Benzo(a)anthracene	0.400	0.397	0.8	86	0.00
33	Chrysene	0.400	0.393	1.8	76	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	74	0.00
35 I	Perylene-d12	0.400	0.400	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.412	-3.0	92	-0.01
37	Benzo(b)fluoranthene	0.400	0.388	3.0	86	0.00
38	Benzo(k)fluoranthene	0.400	0.366	8.5	79	0.00
39 C	Benzo(a)pyrene	0.400	0.396	1.0	88	0.00
40	Dibenzo(a,h)anthracene	0.400	0.411	-2.7	100	0.00
41	Benzo(g,h,i)perylene	0.400	0.406	-1.5	88	-0.01

(#) = 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: AECO15

Lab Code: CHEM Case No.: Q2263 SAS No.: Q2263 SDG No.: Q2263

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 10:10

Lab File ID: BN037257.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.557		3.7	50.0
Fluoranthene-d10	1.047	1.058		1.1	50.0
2-Fluorophenol	0.982	0.966		-1.6	50.0
Phenol-d6	1.035	1.004		-3.0	50.0
Nitrobenzene-d5	0.395	0.401		1.5	50.0
2-Fluorobiphenyl	1.681	1.713		1.9	50.0
2,4,6-Tribromophenol	0.166	0.169		1.8	50.0
Terphenyl-d14	0.904	0.905		0.1	50.0
1,4-Dioxane	0.549	0.503		-8.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037257.D
 Acq On : 14 Jun 2025 10:10
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 16 01:01:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

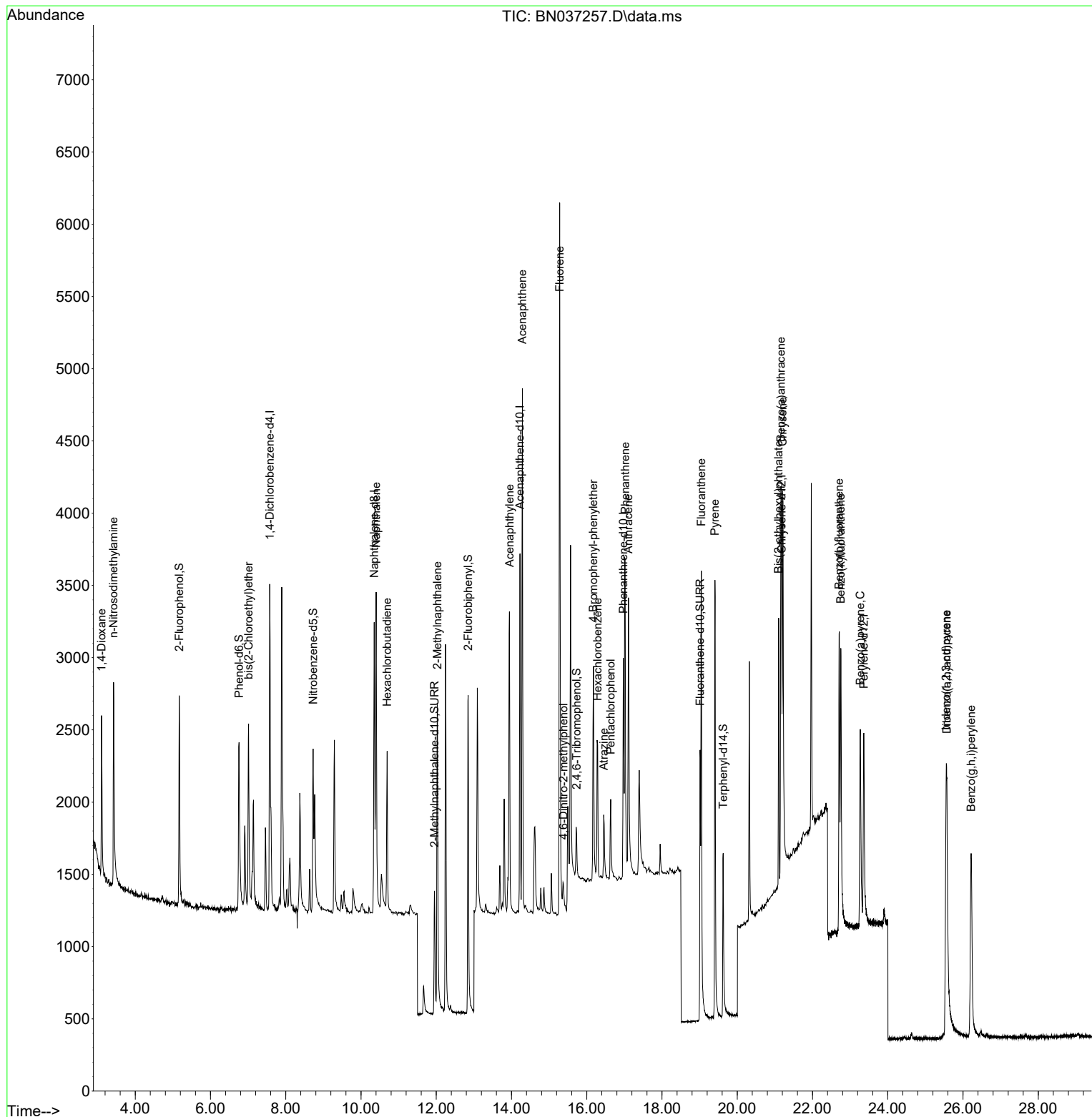
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1123	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2673	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1354	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2362	0.400	ng	0.00
29) Chrysene-d12	21.179	240	1800	0.400	ng	0.00
35) Perylene-d12	23.362	264	1888	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1085	0.393	ng	0.00
5) Phenol-d6	6.759	99	1128	0.388	ng	0.00
8) Nitrobenzene-d5	8.728	82	1072	0.406	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1489	0.415	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	229	0.407	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2320	0.408	ng	0.00
27) Fluoranthene-d10	19.012	212	2499	0.404	ng	0.00
31) Terphenyl-d14	19.625	244	1629	0.400	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	565	0.367	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.422	42	1468	0.418	ng	# 95
6) bis(2-Chloroethyl)ether	7.011	93	1041	0.400	ng	93
9) Naphthalene	10.404	128	3065	0.396	ng	99
10) Hexachlorobutadiene	10.692	225	789	0.419	ng	# 97
12) 2-Methylnaphthalene	12.031	142	1789	0.380	ng	98
16) Acenaphthylene	13.946	152	2535	0.382	ng	99
17) Acenaphthene	14.288	154	1658	0.387	ng	100
18) Fluorene	15.282	166	2058	0.374	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	192	0.426	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	592	0.385	ng	91
22) Hexachlorobenzene	16.289	284	720	0.404	ng	99
23) Atrazine	16.450	200	530	0.386	ng	# 93
24) Pentachlorophenol	16.636	266	343	0.392	ng	99
25) Phenanthrene	17.021	178	2864	0.382	ng	99
26) Anthracene	17.108	178	2628	0.383	ng	98
28) Fluoranthene	19.045	202	3275	0.373	ng	99
30) Pyrene	19.407	202	3356	0.397	ng	99
32) Benzo(a)anthracene	21.162	228	2378	0.391	ng	99
33) Chrysene	21.206	228	3069	0.405	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1780	0.393	ng	100
36) Indeno(1,2,3-cd)pyrene	25.552	276	3254	0.427	ng	97
37) Benzo(b)fluoranthene	22.708	252	2661	0.385	ng	99
38) Benzo(k)fluoranthene	22.751	252	2970	0.373	ng	98
39) Benzo(a)pyrene	23.269	252	2477	0.399	ng	# 95
40) Dibenzo(a,h)anthracene	25.570	278	2342	0.404	ng	97
41) Benzo(g,h,i)perylene	26.213	276	2869	0.406	ng	98

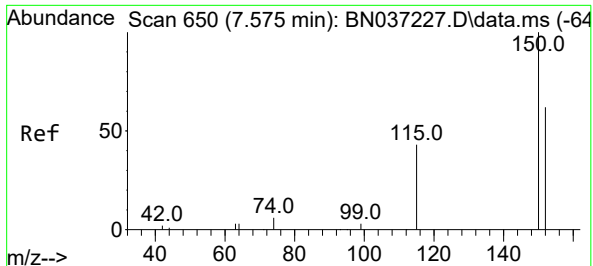
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

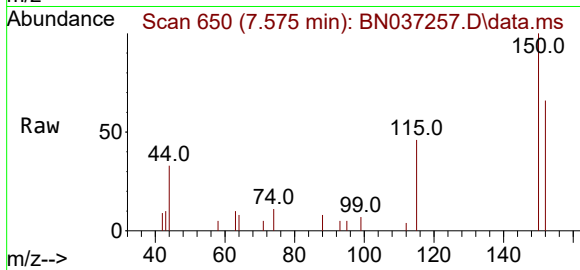
Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



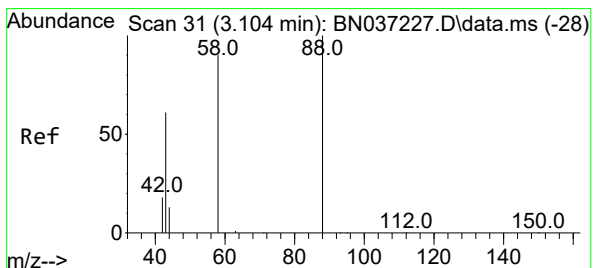
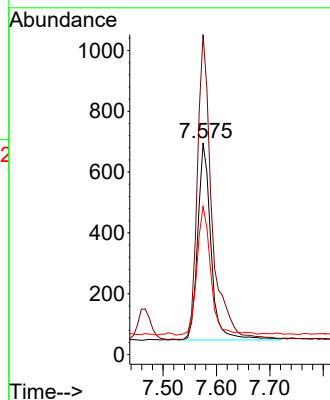
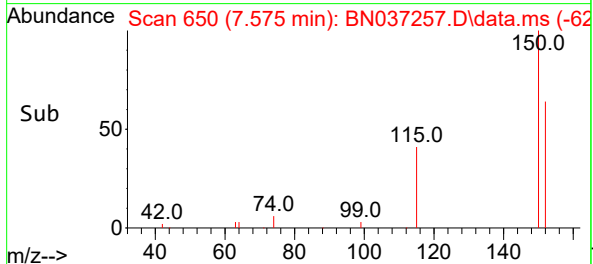


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

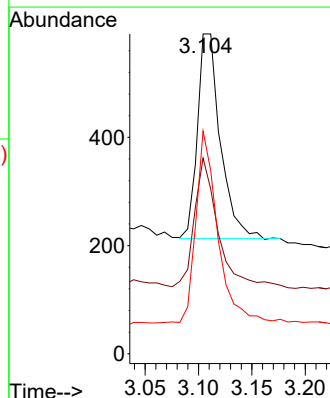
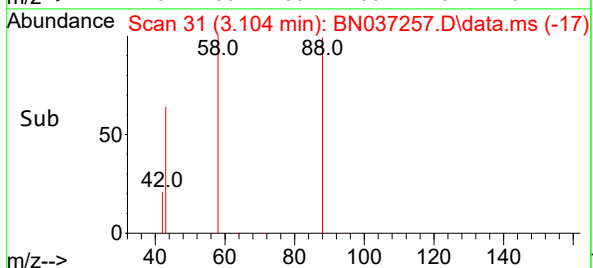
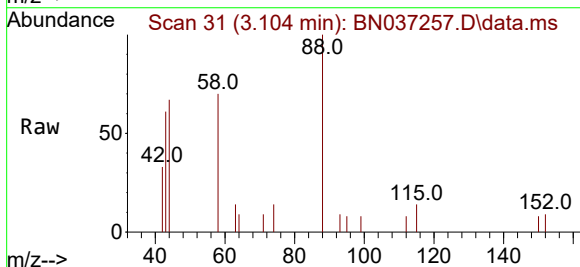


Tgt Ion:152 Resp: 1123
Ion Ratio Lower Upper
152 100
150 151.1 125.2 187.8
115 70.0 58.4 87.6

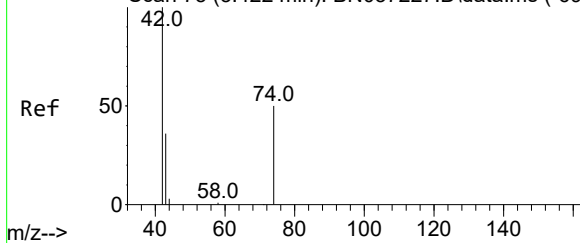


#2
1,4-Dioxane
Concen: 0.367 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion: 88 Resp: 565
Ion Ratio Lower Upper
88 100
43 63.7 52.6 79.0
58 89.4 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.418 ng

RT: 3.422 min Scan# 75

Delta R.T. -0.000 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1468

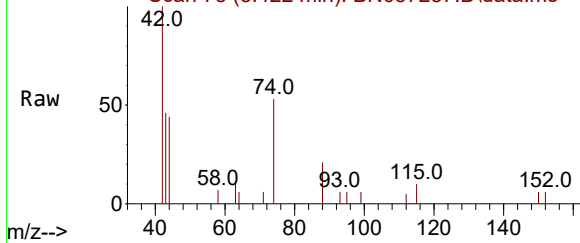
Ion Ratio Lower Upper

42 100

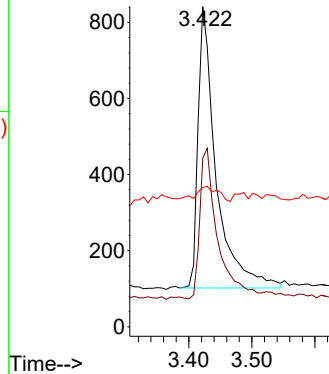
74 52.7 44.6 66.8

44 7.5 3.5 5.3#

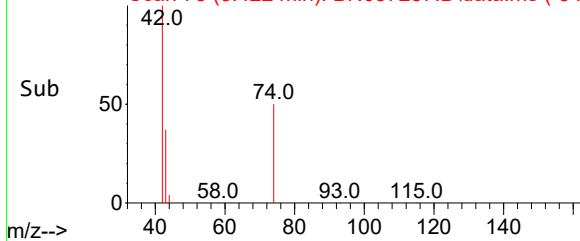
Abundance Scan 75 (3.422 min): BN037257.D\data.ms



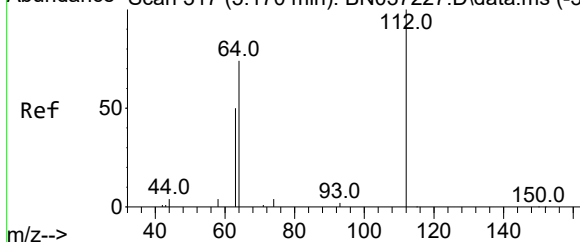
Abundance



Abundance Scan 75 (3.422 min): BN037257.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.393 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Tgt Ion: 112 Resp: 1085

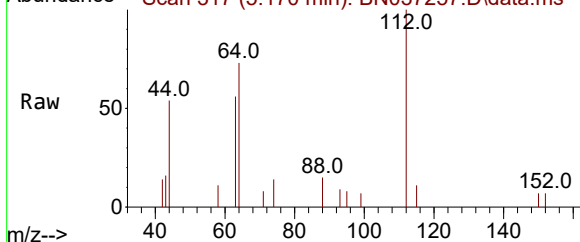
Ion Ratio Lower Upper

112 100

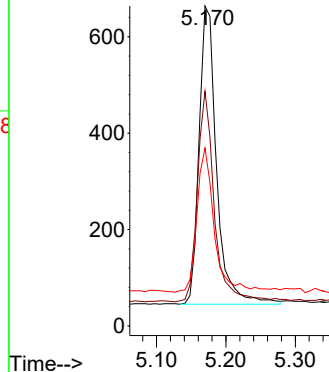
64 68.8 57.2 85.8

63 48.2 39.8 59.6

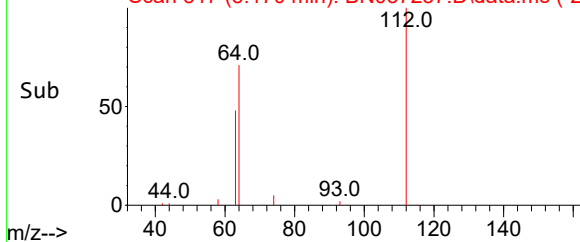
Abundance Scan 317 (5.170 min): BN037257.D\data.ms

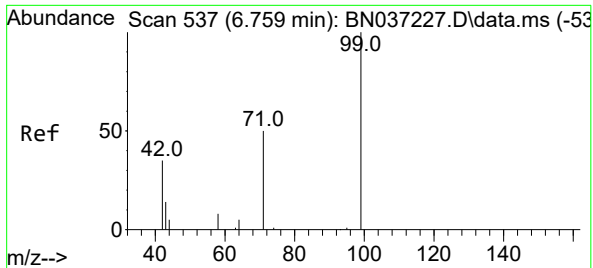


Abundance



Abundance Scan 317 (5.170 min): BN037257.D\data.ms (-28)

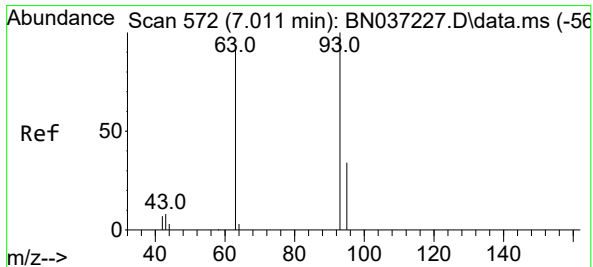
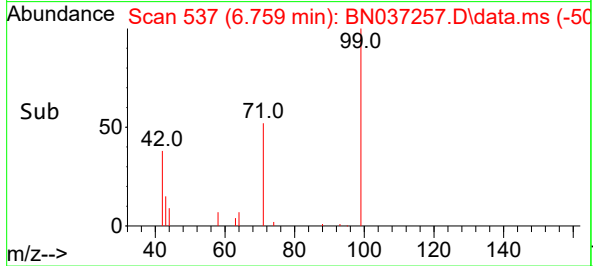
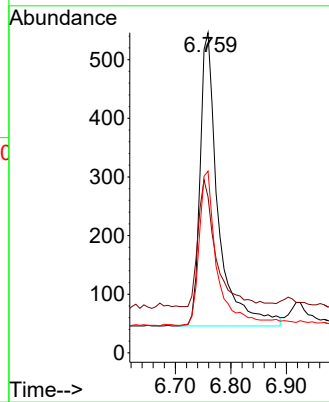
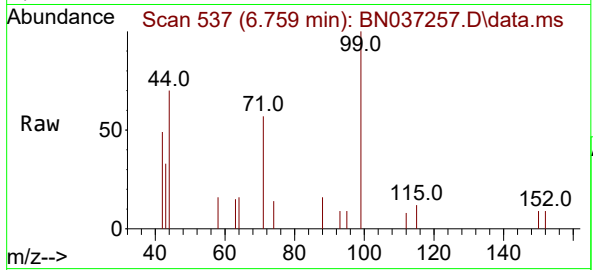




#5
Phenol-d6
Concen: 0.388 ng
RT: 6.759 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

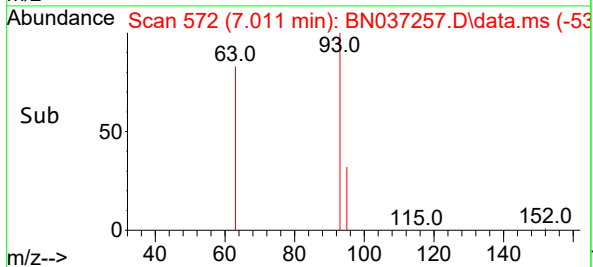
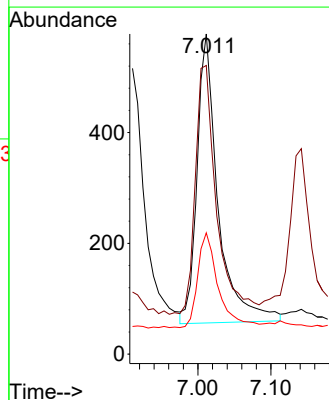
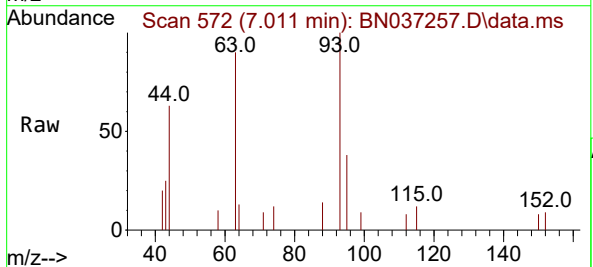
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

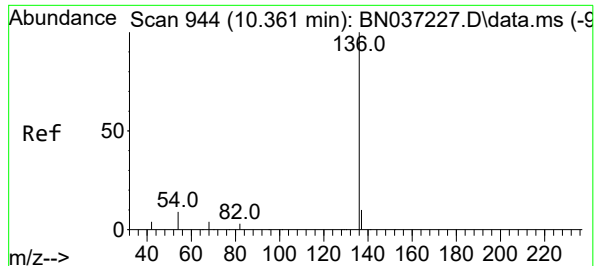
Tgt Ion:	99	Resp:	1128
Ion	Ratio	Lower	Upper
99	100		
42	43.6	36.2	54.4
71	51.4	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.400 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:	93	Resp:	1041
Ion	Ratio	Lower	Upper
93	100		
63	86.9	75.2	112.8
95	31.9	28.3	42.5

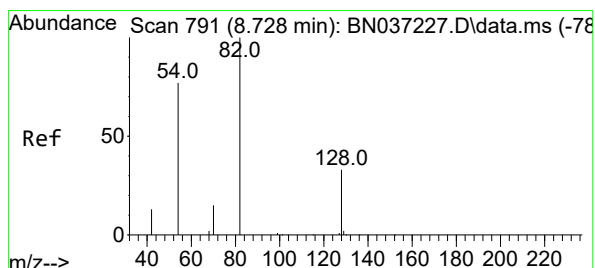
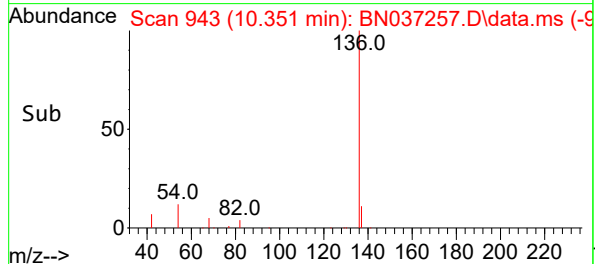
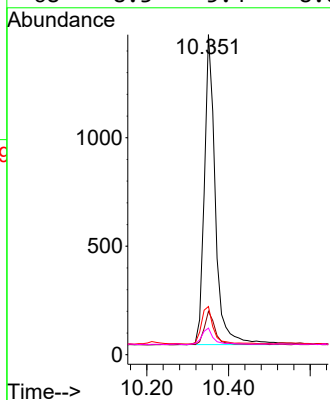
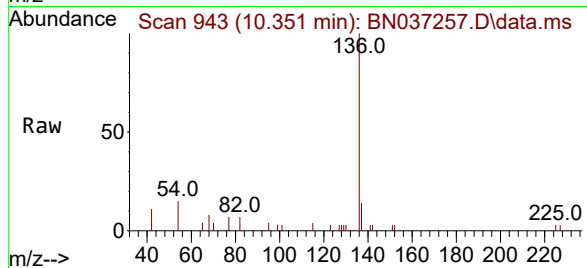




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

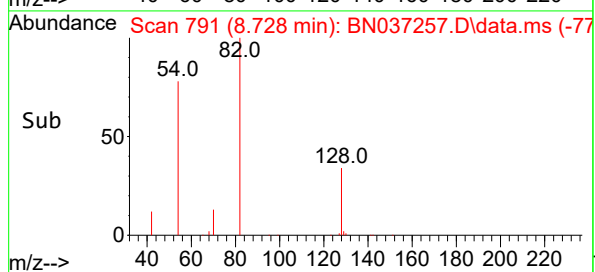
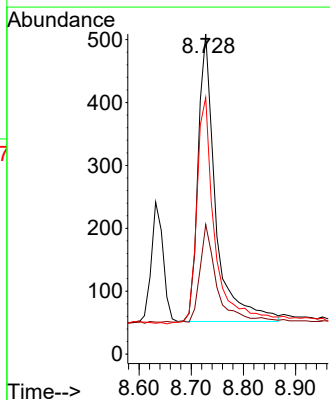
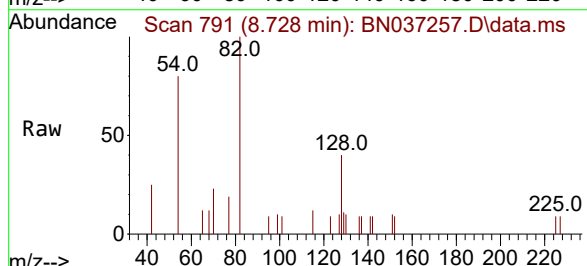
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

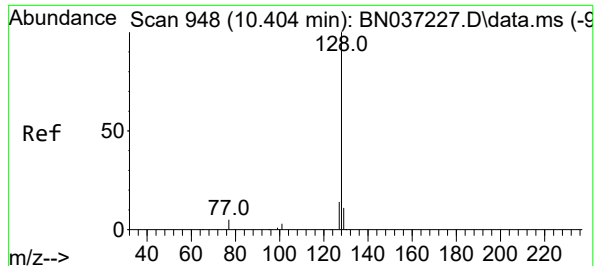
Tgt Ion:	136	Resp:	2673
Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.6	15.8
54	15.1	9.2	13.8#
68	8.3	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.406 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:	82	Resp:	1072
Ion	Ratio	Lower	Upper
82	100		
128	40.5	31.2	46.8
54	80.2	63.3	94.9

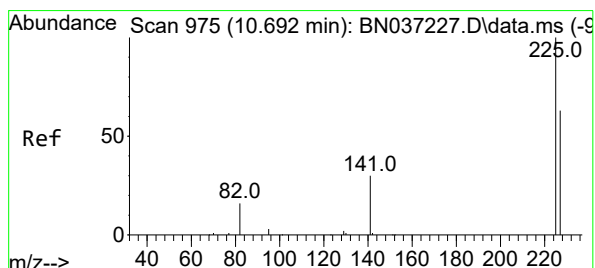
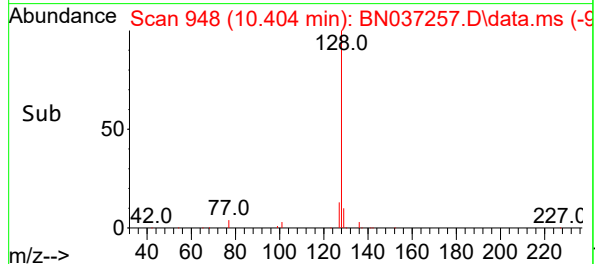
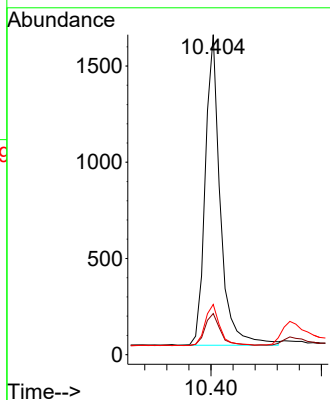
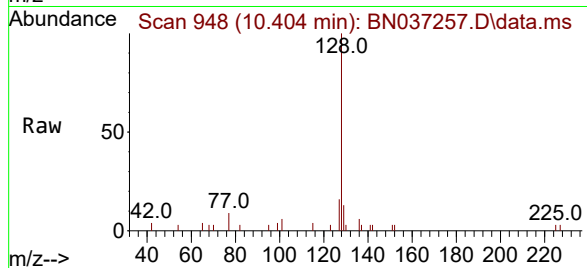




#9
Naphthalene
Concen: 0.396 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

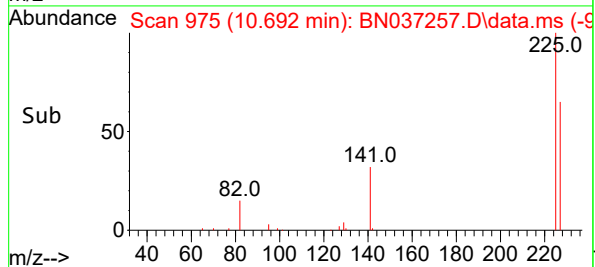
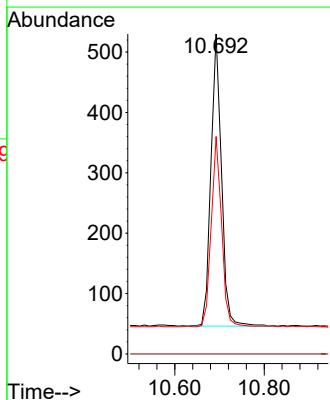
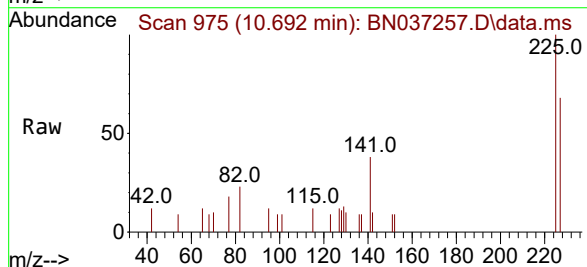
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

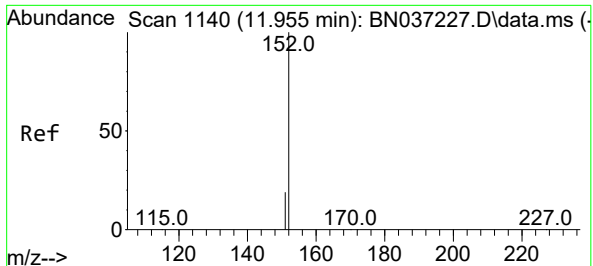
Tgt Ion:	128	Resp:	3065
Ion	Ratio	Lower	Upper
128	100		
129	12.9	10.7	16.1
127	15.7	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:	225	Resp:	789
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.1	49.2	73.8

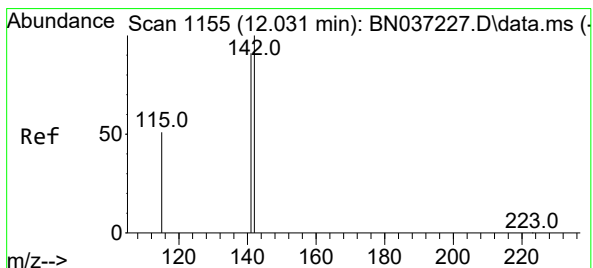
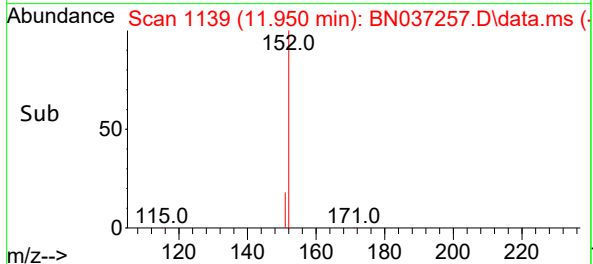
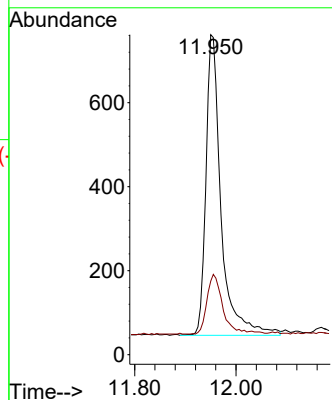
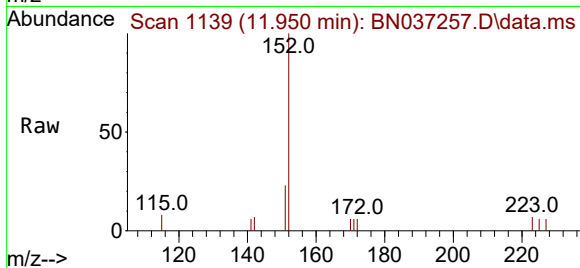




#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.950 min Scan# 1140
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

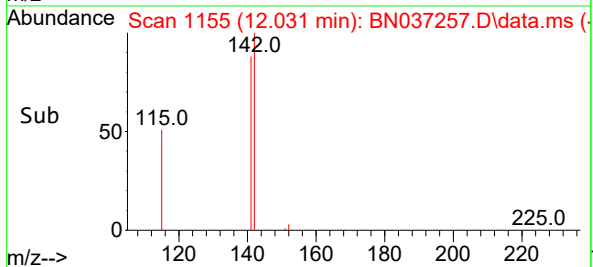
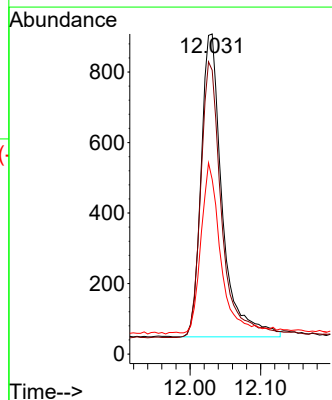
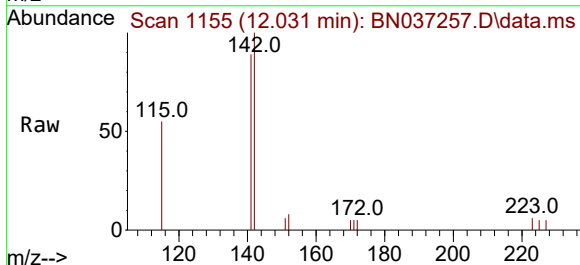
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

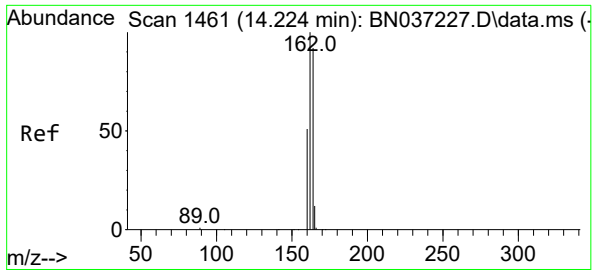
Tgt Ion:152 Resp: 1489
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9



#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 12.031 min Scan# 1155
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:142 Resp: 1789
Ion Ratio Lower Upper
142 100
141 88.7 73.0 109.6
115 54.5 43.3 64.9

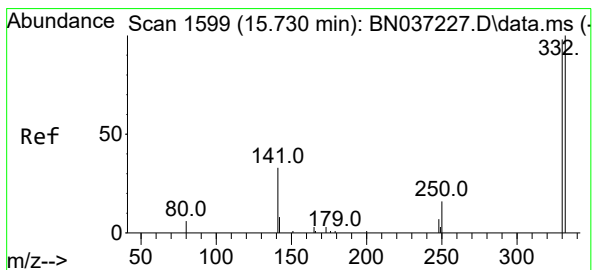
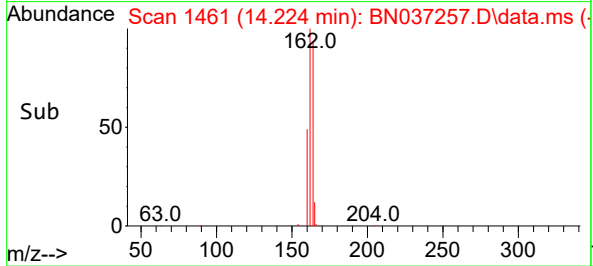
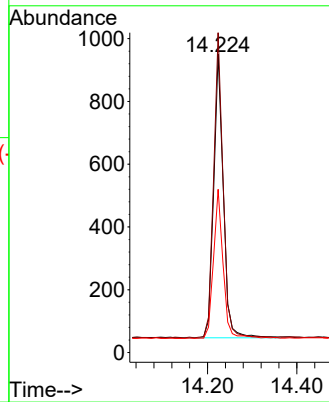
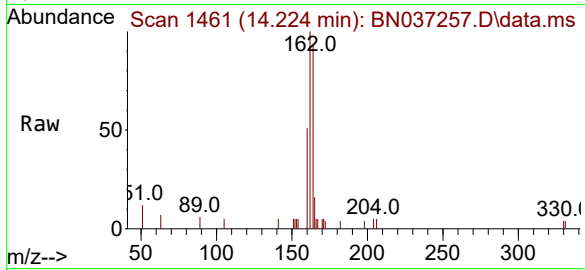




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

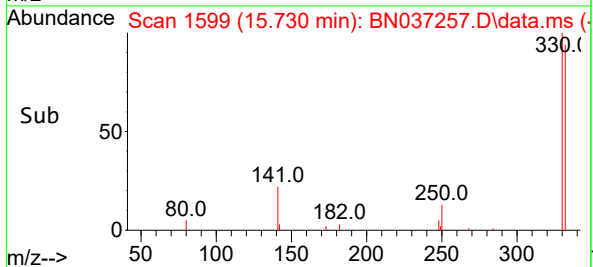
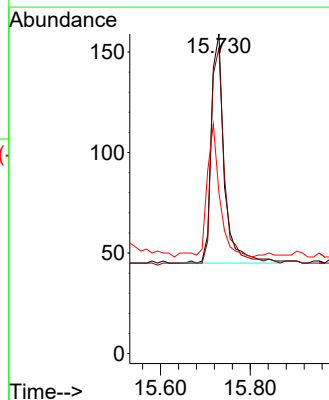
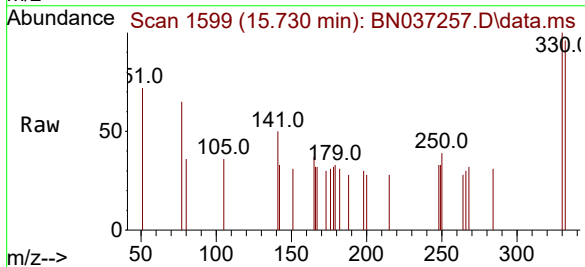
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

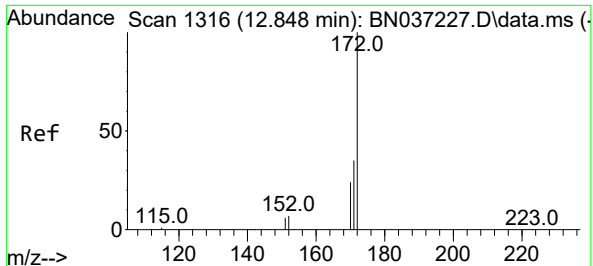
Tgt Ion:164 Resp: 1354
Ion Ratio Lower Upper
164 100
162 107.2 86.7 130.1
160 54.7 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.407 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:330 Resp: 229
Ion Ratio Lower Upper
330 100
332 94.8 74.9 112.3
141 57.2 45.1 67.7

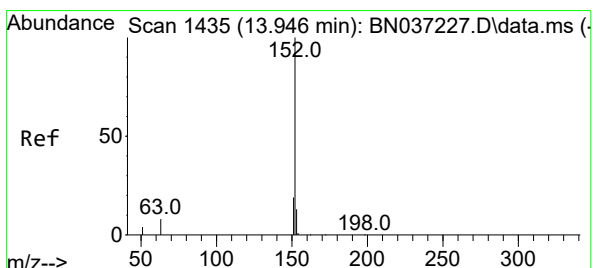
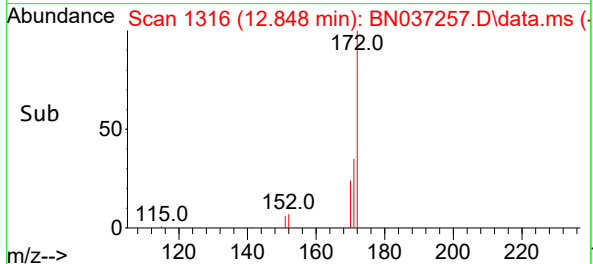
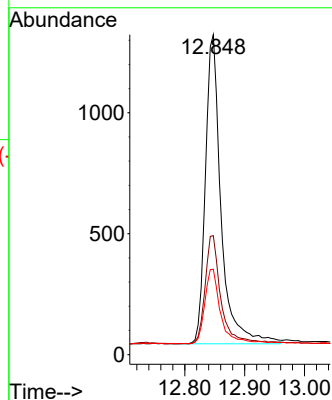
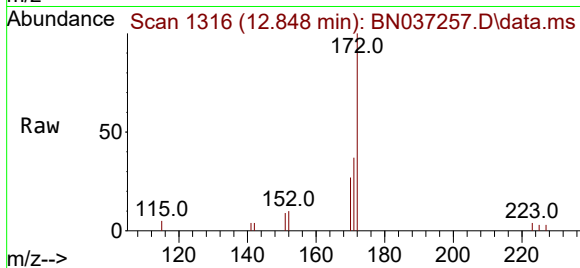




#15
2-Fluorobiphenyl
Concen: 0.408 ng
RT: 12.848 min Scan# 1316
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

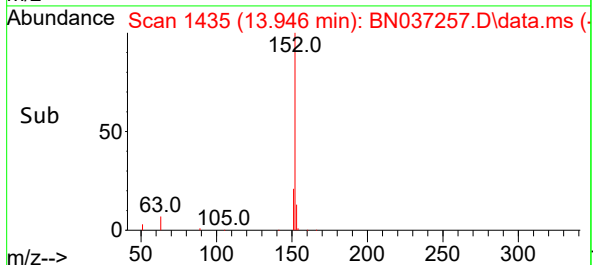
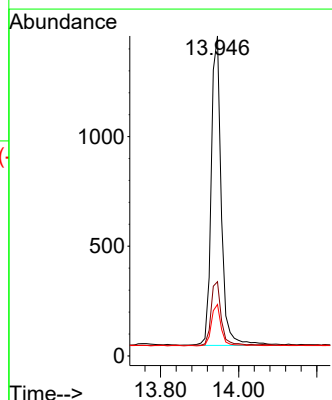
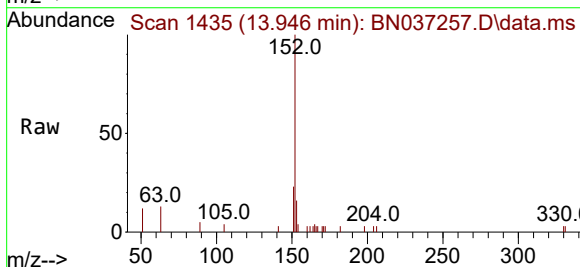
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

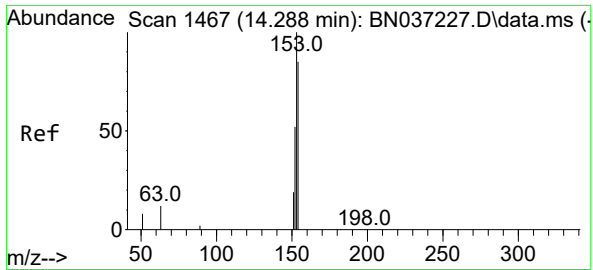
Tgt Ion:172	Resp:	2320
Ion	Ratio	Lower Upper
172	100	
171	37.2	29.8 44.8
170	26.7	21.1 31.7



#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.946 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:152	Resp:	2535
Ion	Ratio	Lower Upper
152	100	
151	20.5	15.7 23.5
153	13.2	10.7 16.1

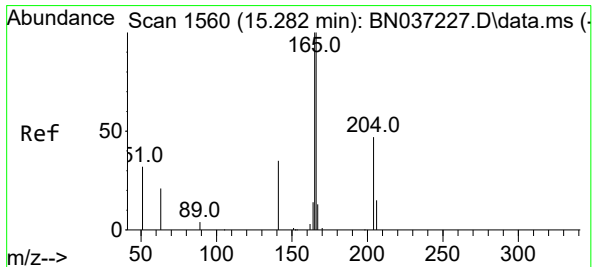
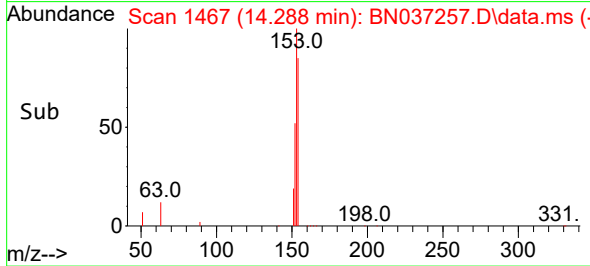
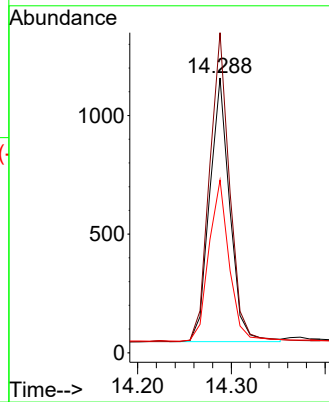
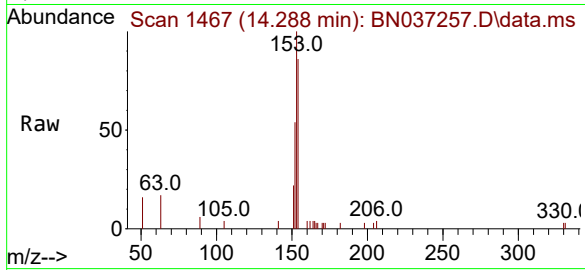




#17
Acenaphthene
Concen: 0.387 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

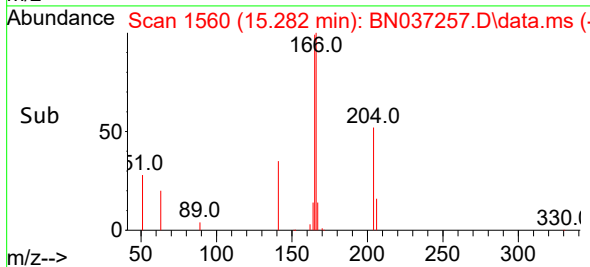
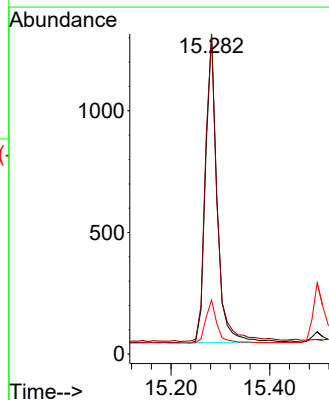
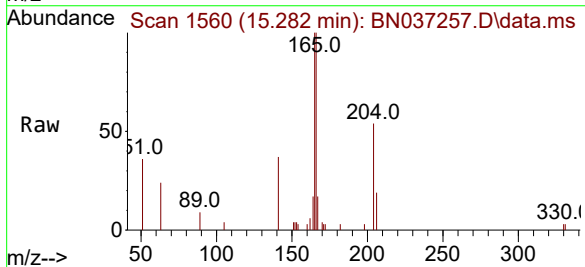
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

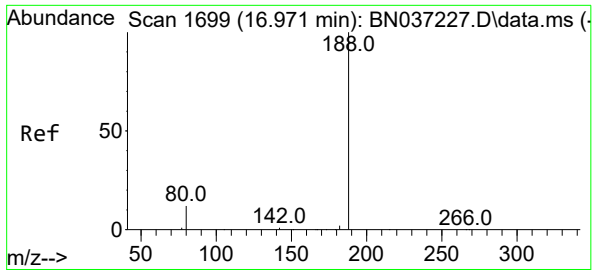
Tgt Ion:154 Resp: 1658
Ion Ratio Lower Upper
154 100
153 117.9 94.6 141.8
152 62.4 49.6 74.4



#18
Fluorene
Concen: 0.374 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:166 Resp: 2058
Ion Ratio Lower Upper
166 100
165 102.0 79.8 119.6
167 14.1 10.8 16.2

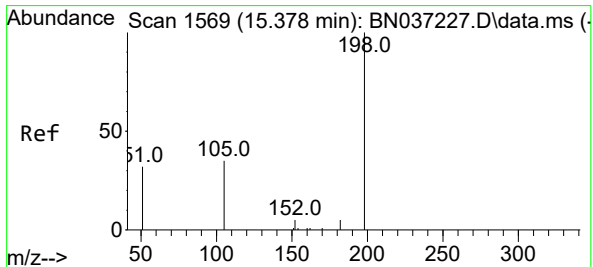
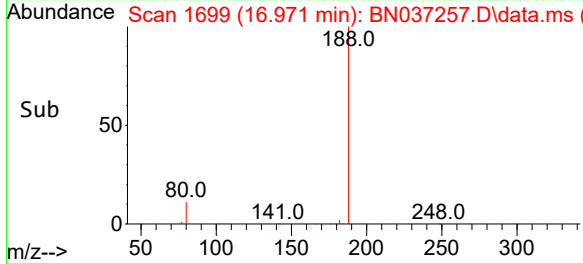
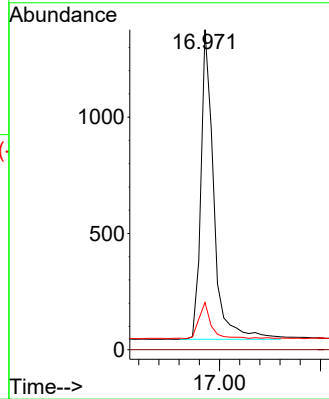
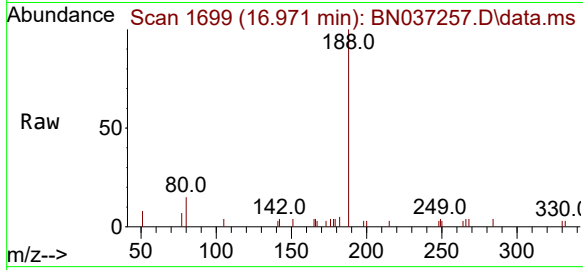




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

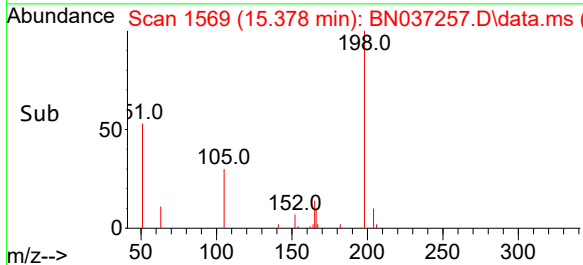
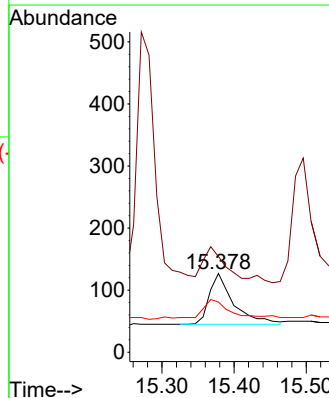
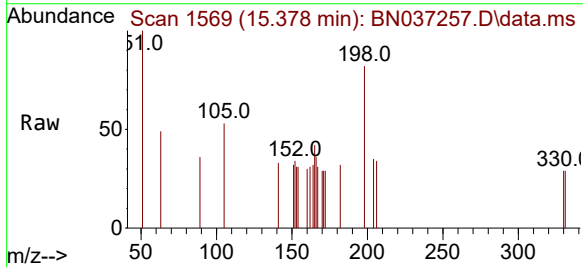
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

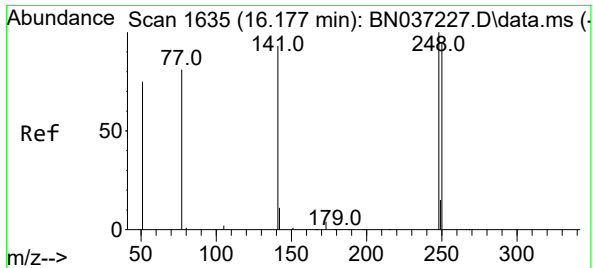
Tgt Ion:188 Resp: 2362
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.8 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.426 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:198 Resp: 192
Ion Ratio Lower Upper
198 100
51 121.3 111.2 166.8
105 63.8 54.0 81.0

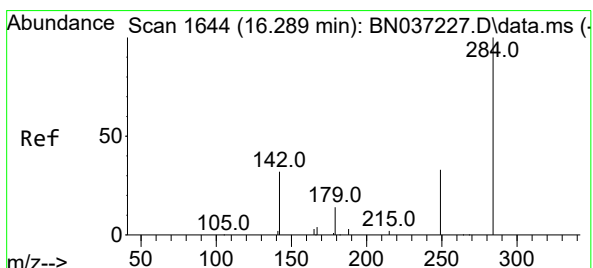
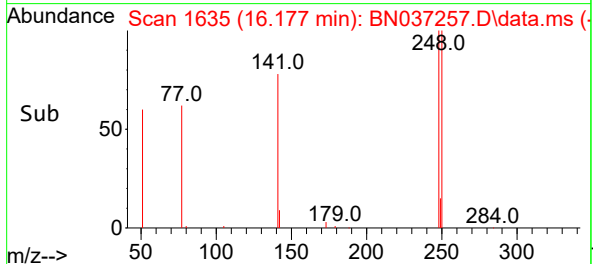
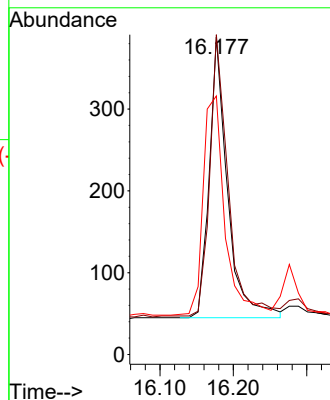
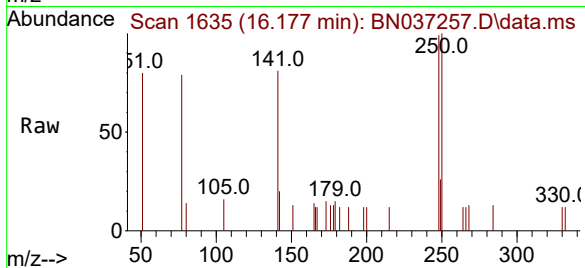




#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

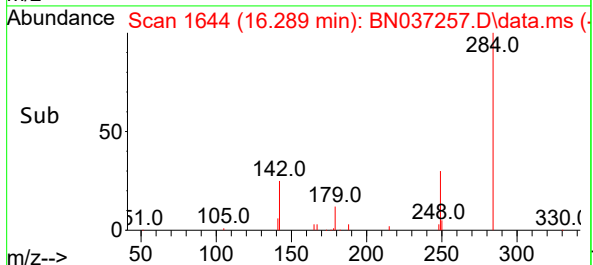
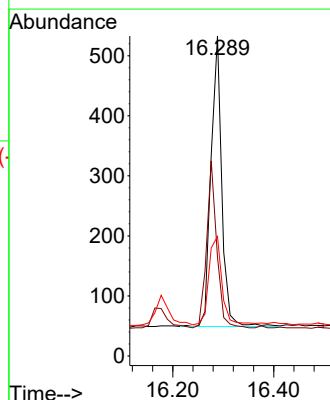
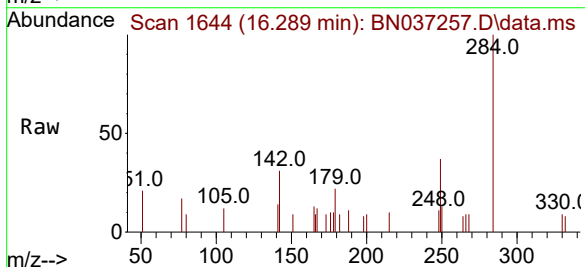
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

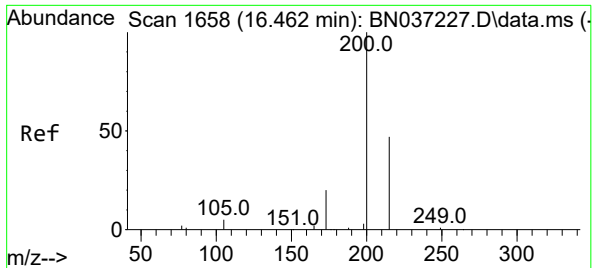
Tgt Ion:248 Resp: 592
Ion Ratio Lower Upper
248 100
250 100.8 76.8 115.2
141 81.4 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.289 min Scan# 1644
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:284 Resp: 720
Ion Ratio Lower Upper
284 100
142 54.0 43.8 65.6
249 36.7 28.4 42.6

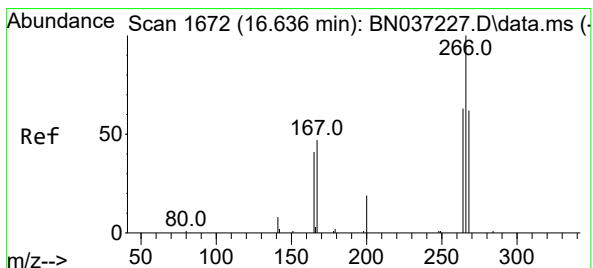
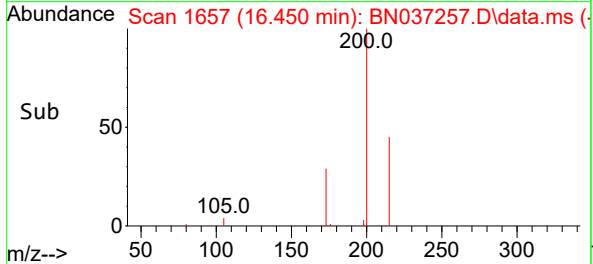
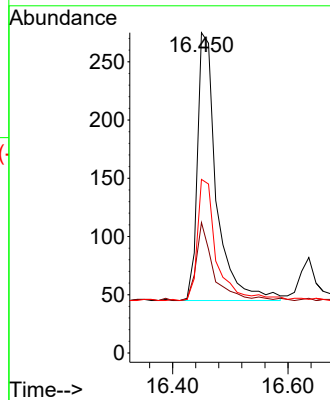
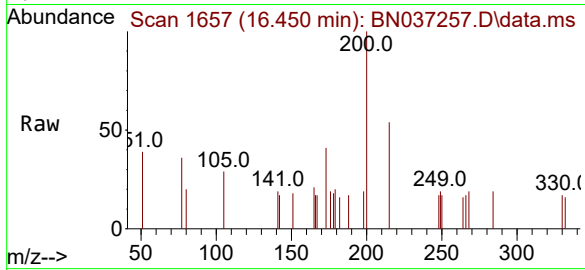




#23
Atrazine
Concen: 0.386 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

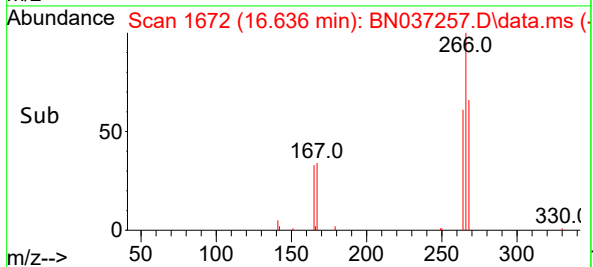
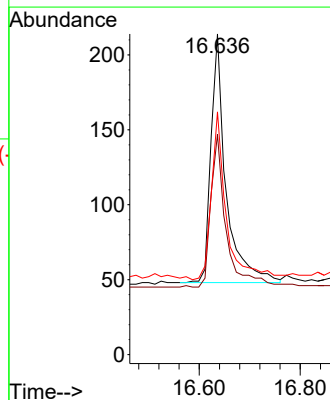
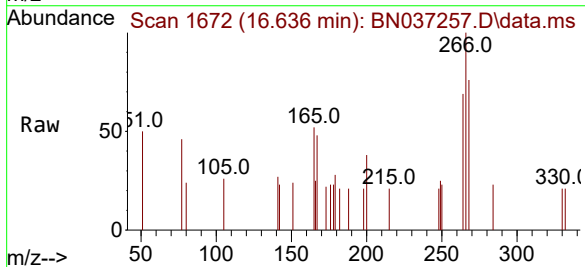
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

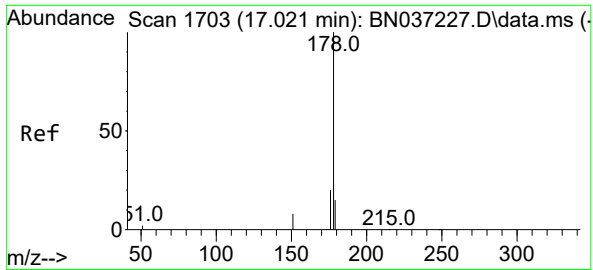
Tgt Ion:200 Resp: 530
Ion Ratio Lower Upper
200 100
173 40.7 25.1 37.7#
215 54.2 43.7 65.5



#24
Pentachlorophenol
Concen: 0.392 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:266 Resp: 343
Ion Ratio Lower Upper
266 100
264 62.7 49.2 73.8
268 67.6 53.4 80.2

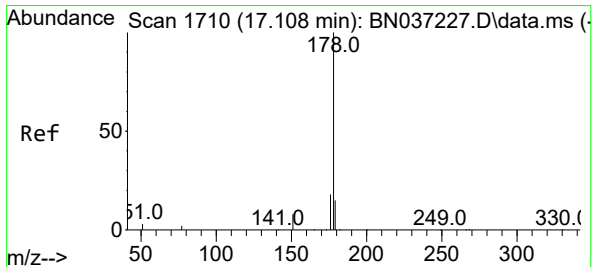
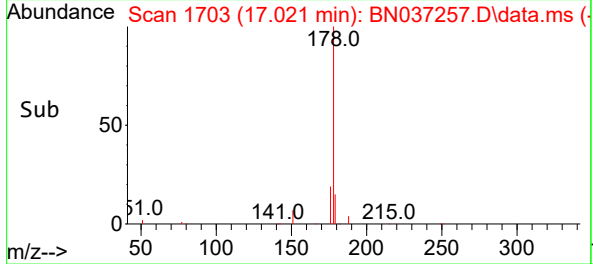
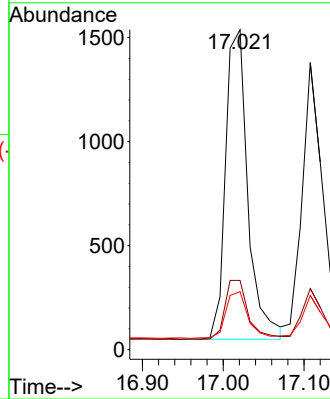
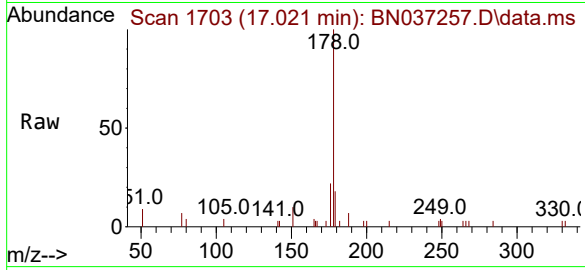




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

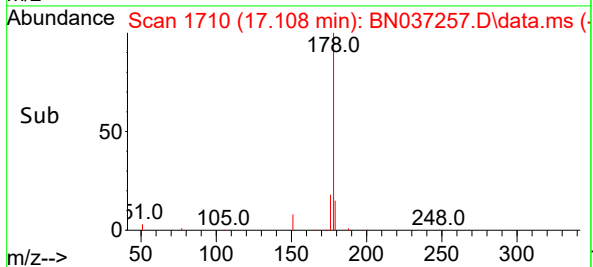
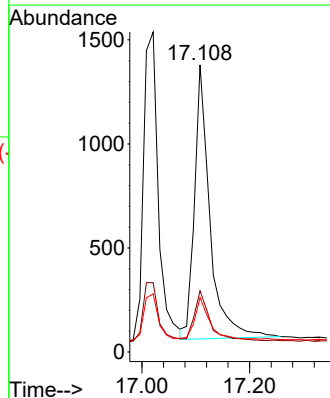
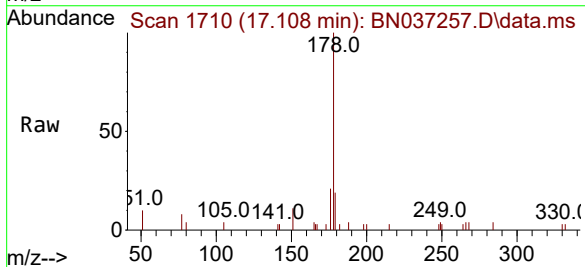
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

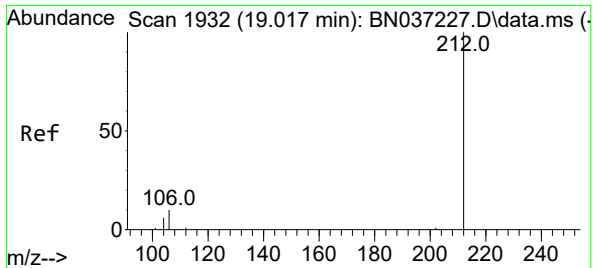
Tgt Ion:178 Resp: 2864
Ion Ratio Lower Upper
178 100
176 20.2 16.3 24.5
179 14.8 12.6 18.8



#26
Anthracene
Concen: 0.383 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:178 Resp: 2628
Ion Ratio Lower Upper
178 100
176 18.3 15.1 22.7
179 14.5 12.4 18.6

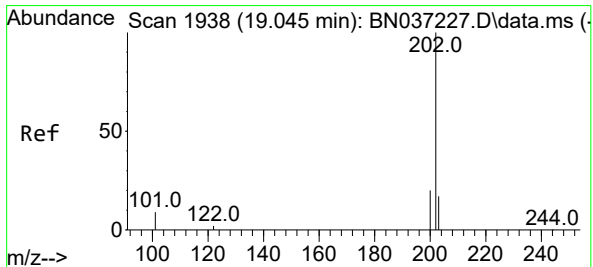
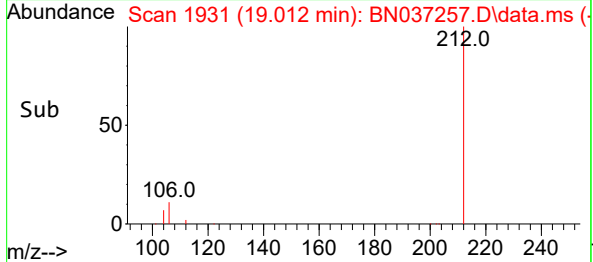
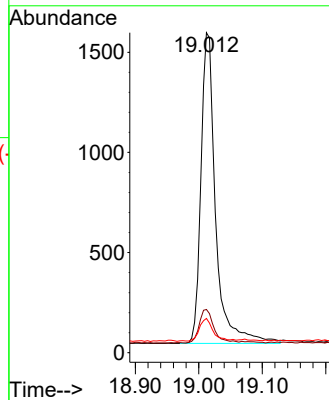
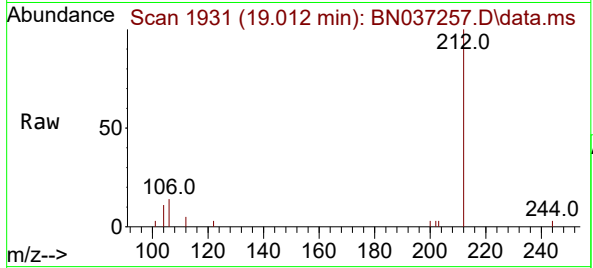




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

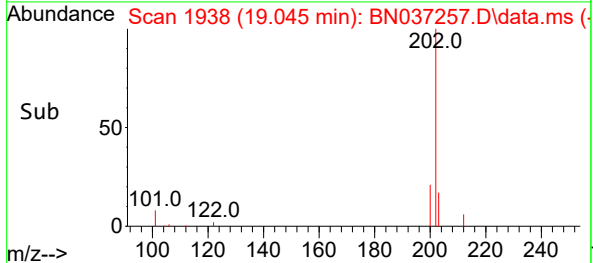
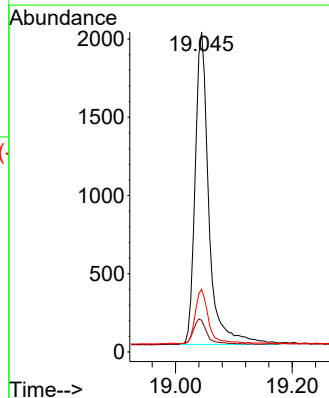
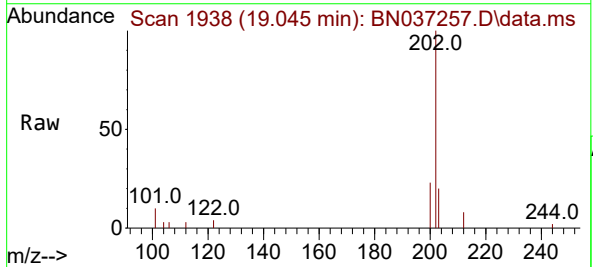
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

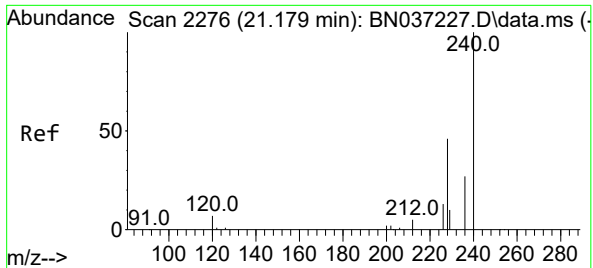
Tgt Ion:212 Resp: 2499
Ion Ratio Lower Upper
212 100
106 10.8 9.3 13.9
104 7.0 5.7 8.5



#28
Fluoranthene
Concen: 0.373 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:202 Resp: 3275
Ion Ratio Lower Upper
202 100
101 8.4 7.1 10.7
203 16.9 13.0 19.6

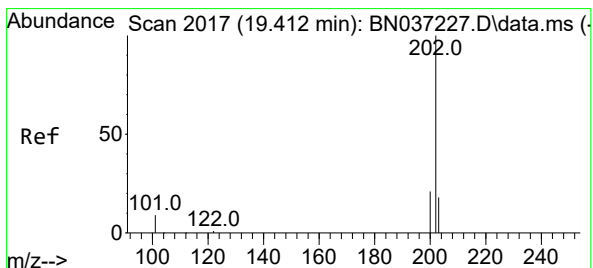
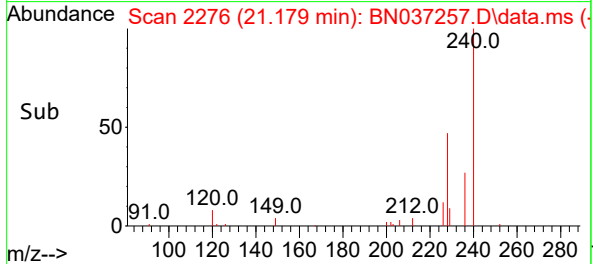
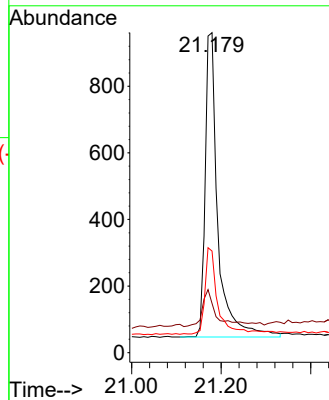
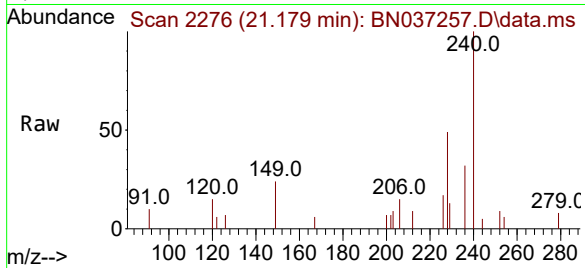




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.179 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

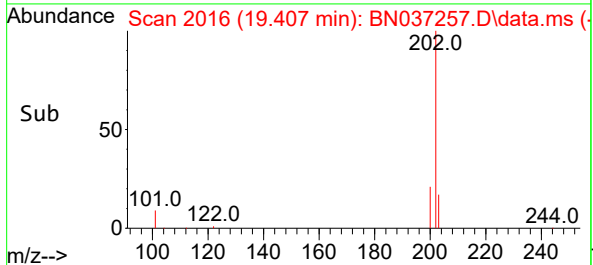
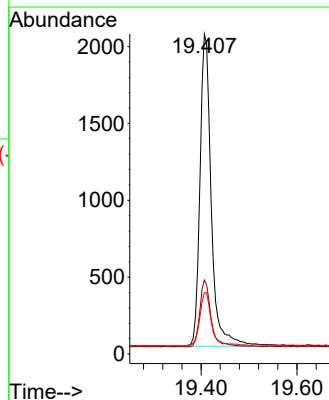
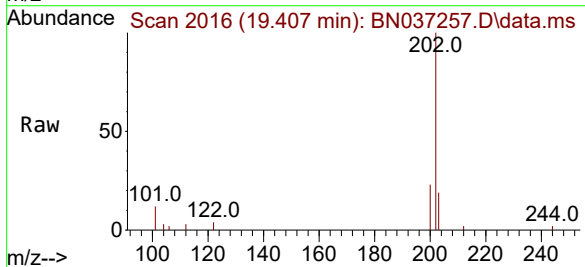
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

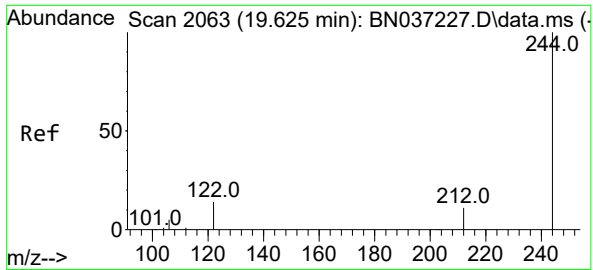
Tgt Ion:240 Resp: 1800
Ion Ratio Lower Upper
240 100
120 15.4 11.3 16.9
236 31.7 24.4 36.6



#30
Pyrene
Concen: 0.397 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:202 Resp: 3356
Ion Ratio Lower Upper
202 100
200 21.1 17.2 25.8
203 17.7 14.3 21.5

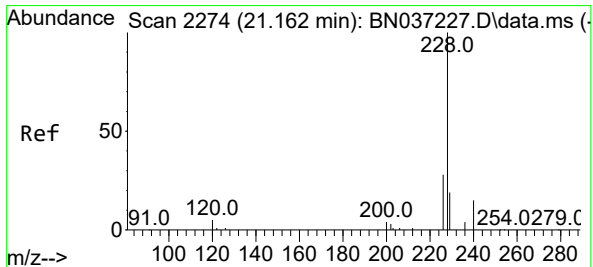
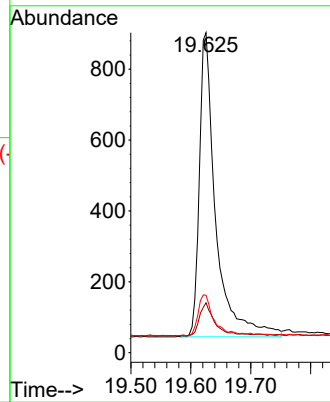
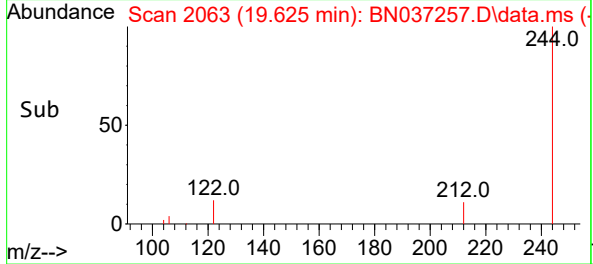
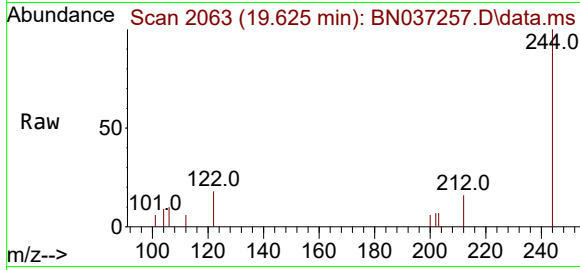




#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

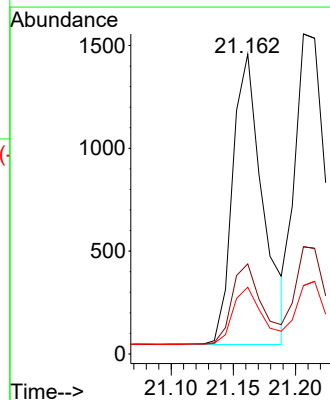
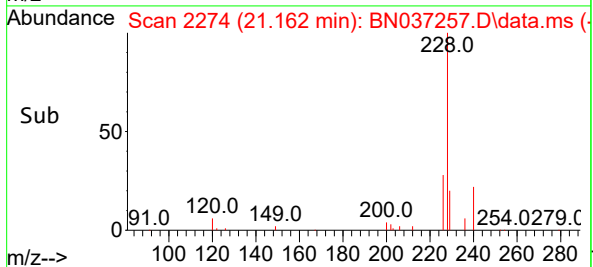
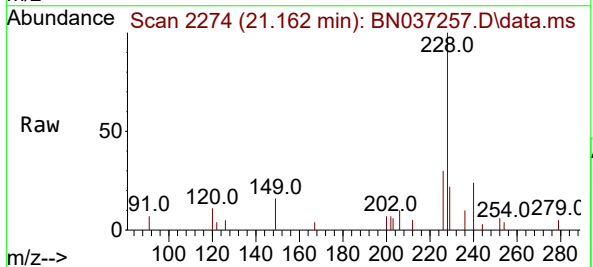
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

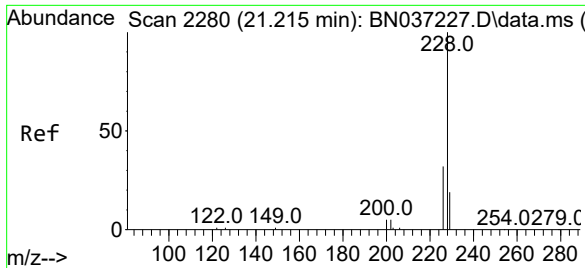
Tgt Ion	Ratio	Lower	Upper
244	100		
212	15.6	12.2	18.2
122	17.9	14.3	21.5



#32
Benzo(a)anthracene
Concen: 0.391 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.8	35.8
229	22.2	17.0	25.4





#33

Chrysene

Concen: 0.405 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

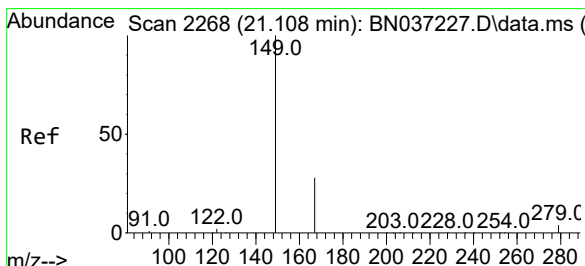
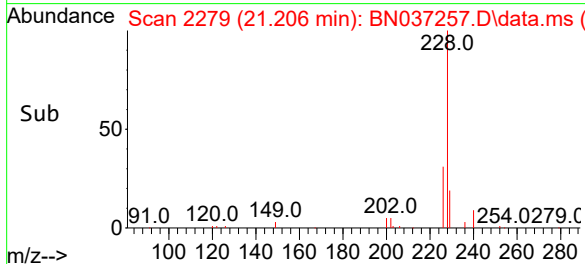
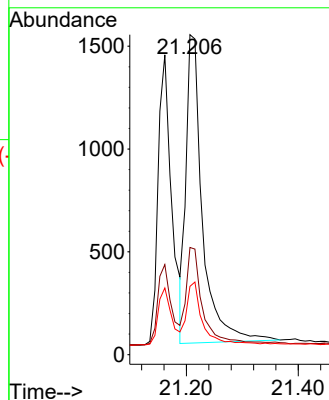
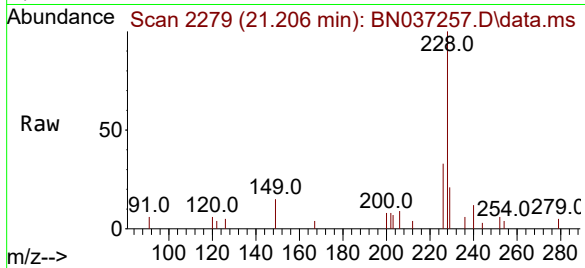
Tgt Ion:228 Resp: 3069

Ion Ratio Lower Upper

228 100

226 33.5 25.8 38.6

229 21.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.393 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

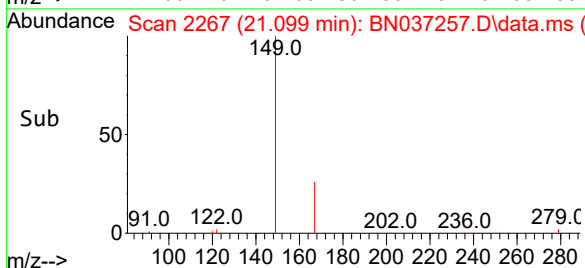
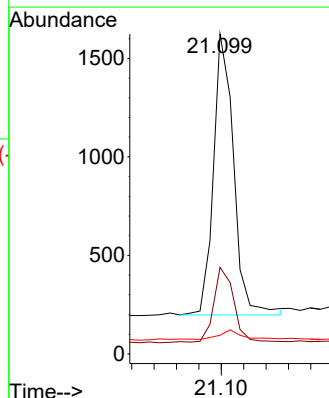
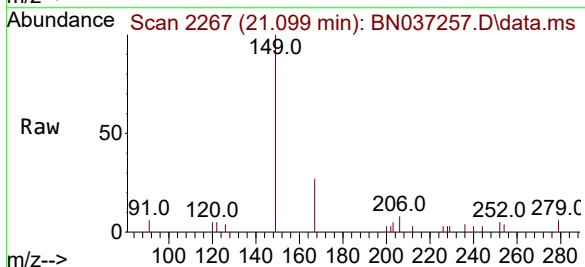
Tgt Ion:149 Resp: 1780

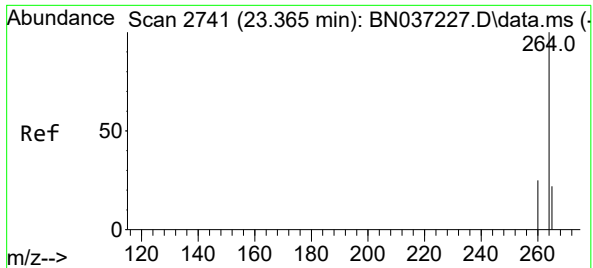
Ion Ratio Lower Upper

149 100

167 26.7 21.3 31.9

279 3.5 3.3 4.9

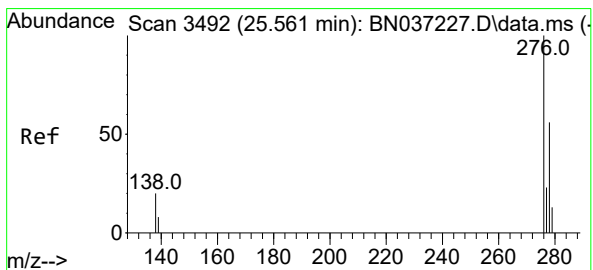
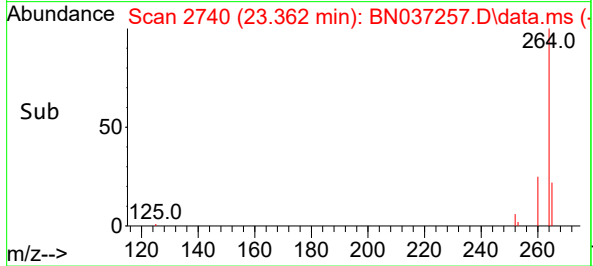
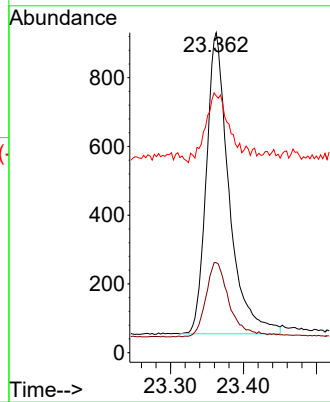
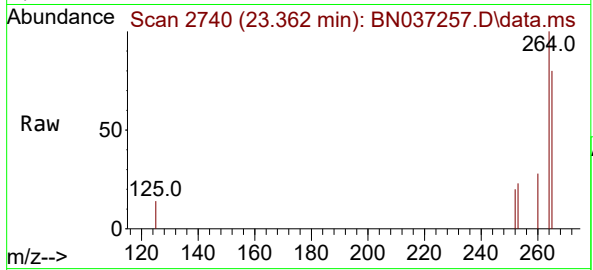




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.362 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

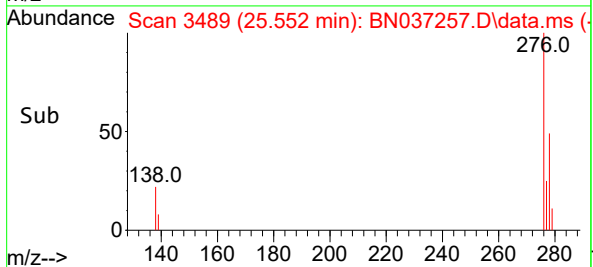
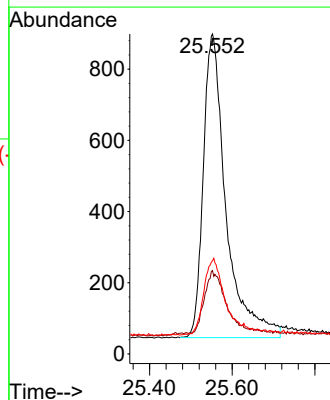
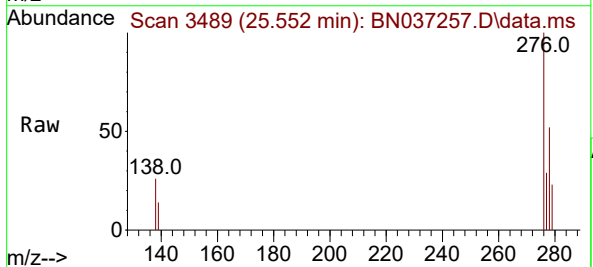
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

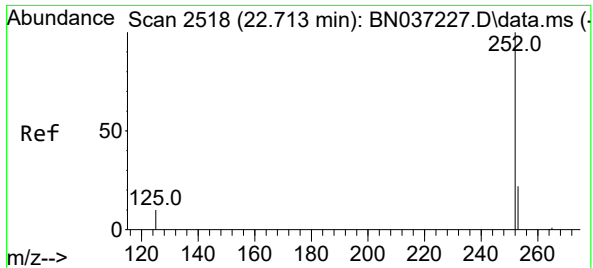
Tgt Ion:264 Resp: 1888
Ion Ratio Lower Upper
264 100
260 28.1 22.8 34.2
265 80.2 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.427 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037257.D
Acq: 14 Jun 2025 10:10

Tgt Ion:276 Resp: 3254
Ion Ratio Lower Upper
276 100
138 19.4 16.8 25.2
277 22.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.385 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

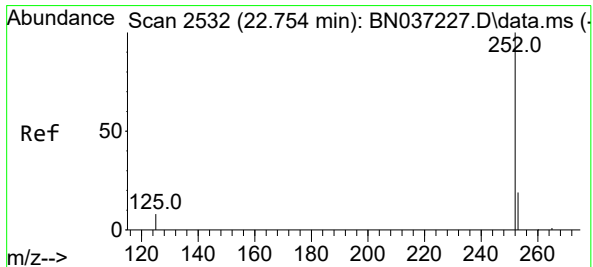
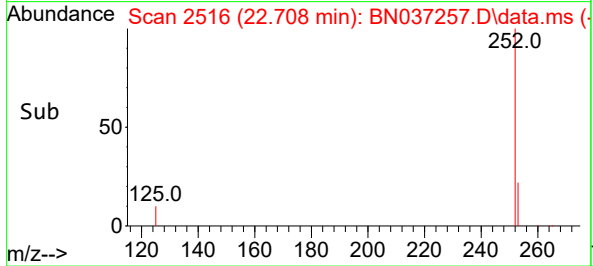
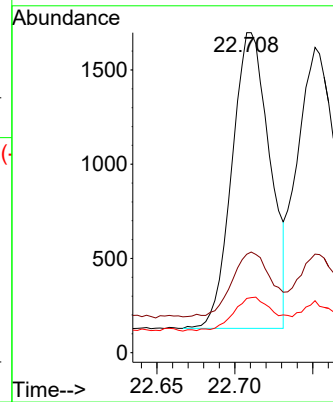
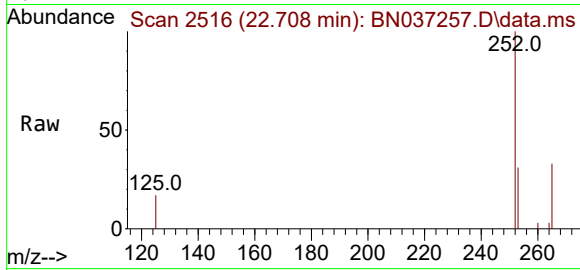
Tgt Ion:252 Resp: 2661

Ion Ratio Lower Upper

252 100

253 30.7 24.9 37.3

125 17.0 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.373 ng

RT: 22.751 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

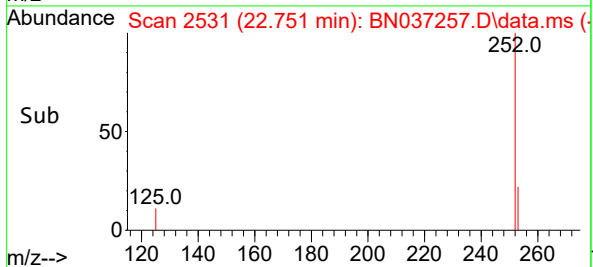
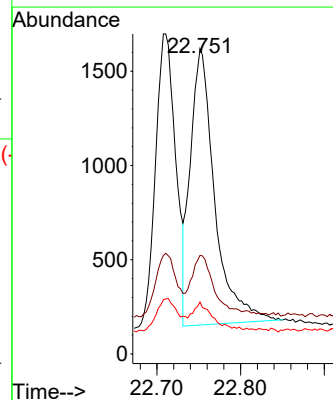
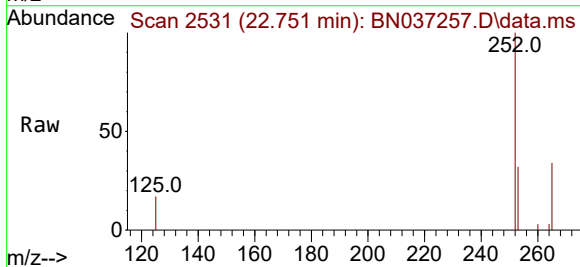
Tgt Ion:252 Resp: 2970

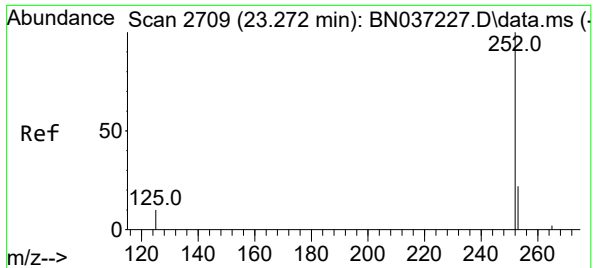
Ion Ratio Lower Upper

252 100

253 32.3 24.6 37.0

125 17.0 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

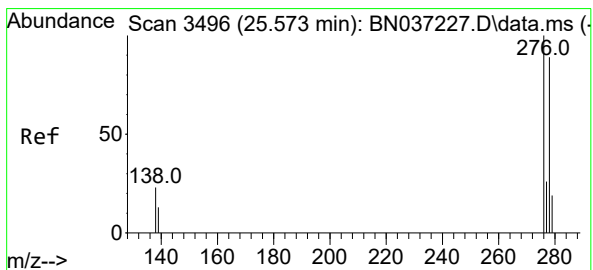
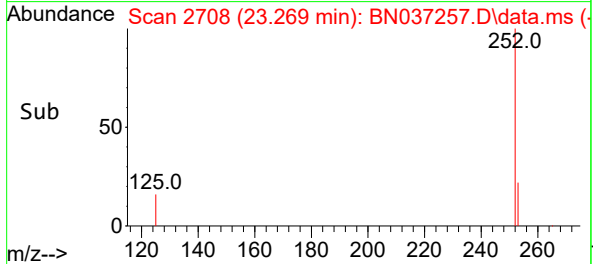
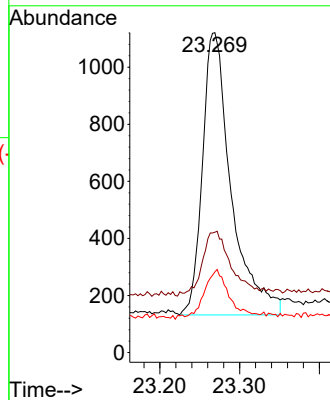
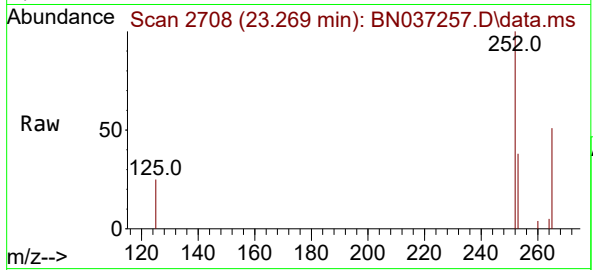
Tgt Ion:252 Resp: 2477

Ion Ratio Lower Upper

252 100

253 37.6 29.4 44.2

125 25.2 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.404 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037257.D

Acq: 14 Jun 2025 10:10

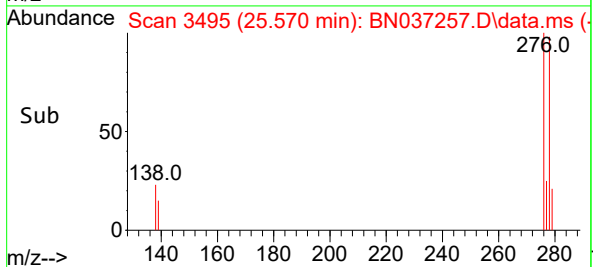
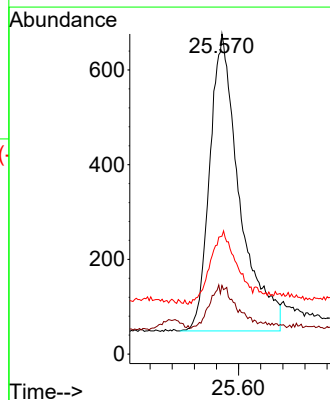
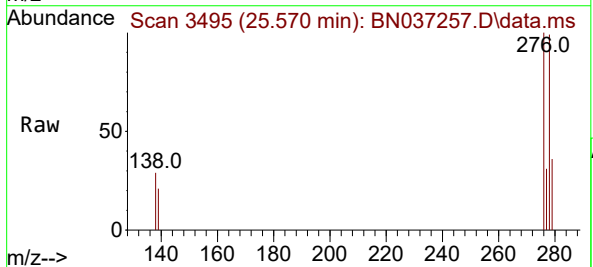
Tgt Ion:278 Resp: 2342

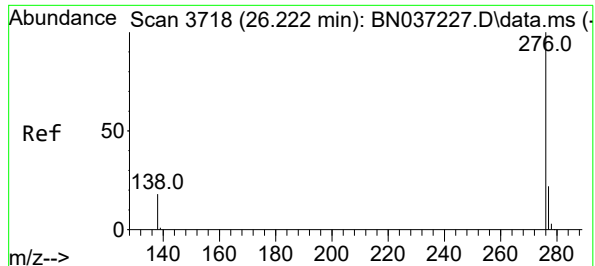
Ion Ratio Lower Upper

278 100

139 21.4 17.8 26.6

279 36.8 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 26.213 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037257.D

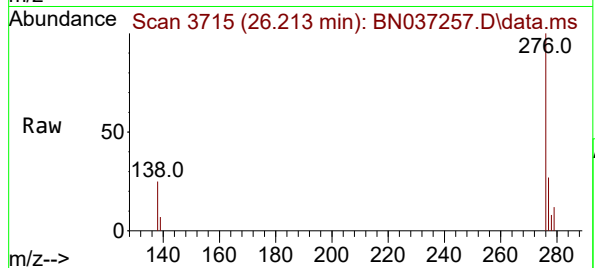
Acq: 14 Jun 2025 10:10

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



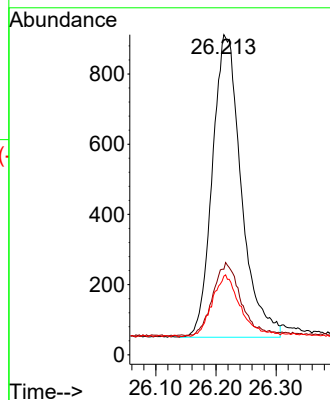
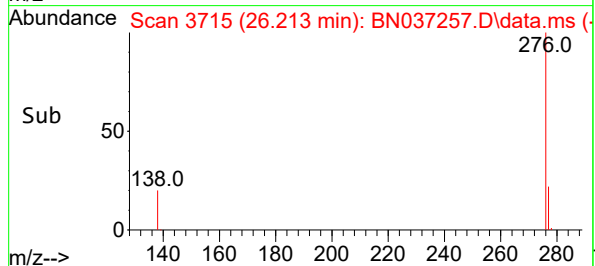
Tgt Ion:276 Resp: 2869

Ion Ratio Lower Upper

276 100

277 26.8 22.0 33.0

138 24.6 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	87	0.00
2	1,4-Dioxane	0.549	0.503	8.4	84	0.00
3	n-Nitrosodimethylamine	1.250	1.307	-4.6	89	0.00
4 S	2-Fluorophenol	0.982	0.966	1.6	90	0.00
5 S	Phenol-d6	1.035	1.004	3.0	91	0.00
6	bis(2-Chloroethyl)ether	0.927	0.927	0.0	93	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.395	0.401	-1.5	87	0.00
9	Naphthalene	1.158	1.147	0.9	84	0.00
10	Hexachlorobutadiene	0.282	0.295	-4.6	82	0.00
11 SURR	2-Methylnaphthalene-d10	0.537	0.557	-3.7	83	0.00
12	2-Methylnaphthalene	0.704	0.669	5.0	79	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	78	0.00
14 S	2,4,6-Tribromophenol	0.166	0.169	-1.8	77	0.00
15 S	2-Fluorobiphenyl	1.681	1.713	-1.9	79	0.00
16	Acenaphthylene	1.960	1.872	4.5	78	0.00
17	Acenaphthene	1.265	1.225	3.2	77	0.00
18	Fluorene	1.625	1.520	6.5	74	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	74	0.00
20	4,6-Dinitro-2-methylphenol	0.092	0.081	12.0	91	0.00
21	4-Bromophenyl-phenylether	0.261	0.251	3.8	76	0.00
22	Hexachlorobenzene	0.302	0.305	-1.0	72	0.00
23	Atrazine	0.232	0.224	3.4	75	-0.01
24	Pentachlorophenol	0.148	0.145	2.0	86	0.00
25	Phenanthrene	1.269	1.213	4.4	76	0.00
26	Anthracene	1.161	1.113	4.1	76	0.00
27 SURR	Fluoranthene-d10	1.046	1.058	-1.1	74	0.00
28	Fluoranthene	1.485	1.387	6.6	73	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	79	0.00
30	Pyrene	1.881	1.864	0.9	75	0.00
31 S	Terphenyl-d14	0.904	0.905	-0.1	75	0.00
32	Benzo(a)anthracene	1.351	1.321	2.2	85	0.00
33	Chrysene	1.683	1.705	-1.3	79	0.00
34	Bis(2-ethylhexyl)phthalate	1.006	0.989	1.7	76	0.00
35 I	Perylene-d12	1.000	1.000	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	1.613	1.724	-6.9	100	0.00
37	Benzo(b)fluoranthene	1.463	1.409	3.7	90	0.00
38	Benzo(k)fluoranthene	1.689	1.573	6.9	85	0.00
39 C	Benzo(a)pyrene	1.316	1.312	0.3	93	0.00
40	Dibenzo(a,h)anthracene	1.227	1.240	-1.1	104	0.00
41	Benzo(g,h,i)perylene	1.496	1.520	-1.6	93	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037257.D
Acq On : 14 Jun 2025 10:10
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 16 01:01:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 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	87	0.00
2	1,4-Dioxane	0.400	0.367	8.3	84	0.00
3	n-Nitrosodimethylamine	0.400	0.418	-4.5	89	0.00
4 S	2-Fluorophenol	0.400	0.393	1.8	90	0.00
5 S	Phenol-d6	0.400	0.388	3.0	91	0.00
6	bis(2-Chloroethyl)ether	0.400	0.400	0.0	93	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	83	-0.01
8 S	Nitrobenzene-d5	0.400	0.406	-1.5	87	0.00
9	Naphthalene	0.400	0.396	1.0	84	0.00
10	Hexachlorobutadiene	0.400	0.419	-4.7	82	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.415	-3.7	83	0.00
12	2-Methylnaphthalene	0.400	0.380	5.0	79	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	78	0.00
14 S	2,4,6-Tribromophenol	0.400	0.407	-1.7	77	0.00
15 S	2-Fluorobiphenyl	0.400	0.408	-2.0	79	0.00
16	Acenaphthylene	0.400	0.382	4.5	78	0.00
17	Acenaphthene	0.400	0.387	3.3	77	0.00
18	Fluorene	0.400	0.374	6.5	74	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	74	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.426	-6.5	91	0.00
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	76	0.00
22	Hexachlorobenzene	0.400	0.404	-1.0	72	0.00
23	Atrazine	0.400	0.386	3.5	75	-0.01
24	Pentachlorophenol	0.400	0.392	2.0	86	0.00
25	Phenanthrene	0.400	0.382	4.5	76	0.00
26	Anthracene	0.400	0.383	4.3	76	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	74	0.00
28	Fluoranthene	0.400	0.373	6.8	73	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	79	0.00
30	Pyrene	0.400	0.397	0.8	75	0.00
31 S	Terphenyl-d14	0.400	0.400	0.0	75	0.00
32	Benzo(a)anthracene	0.400	0.391	2.3	85	0.00
33	Chrysene	0.400	0.405	-1.3	79	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.393	1.8	76	0.00
35 I	Perylene-d12	0.400	0.400	0.0	88	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.427	-6.7	100	0.00
37	Benzo(b)fluoranthene	0.400	0.385	3.8	90	0.00
38	Benzo(k)fluoranthene	0.400	0.373	6.8	85	0.00
39 C	Benzo(a)pyrene	0.400	0.399	0.3	93	0.00
40	Dibenzo(a,h)anthracene	0.400	0.404	-1.0	104	0.00
41	Benzo(g,h,i)perylene	0.400	0.406	-1.5	93	0.00

(#) = Out of Range

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



QC SAMPLE DATA

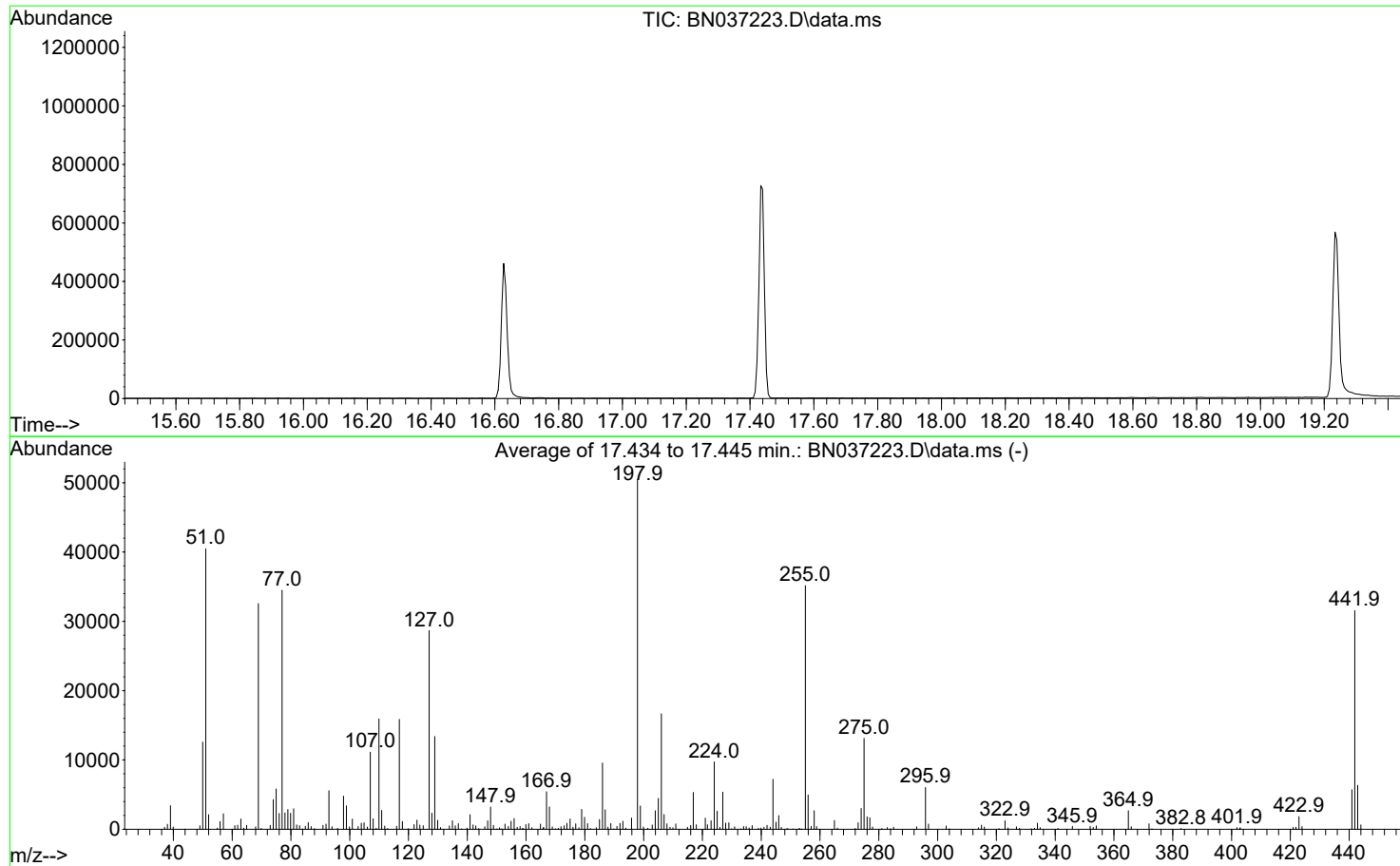
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
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-BN061325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 13 18:43:34 2025



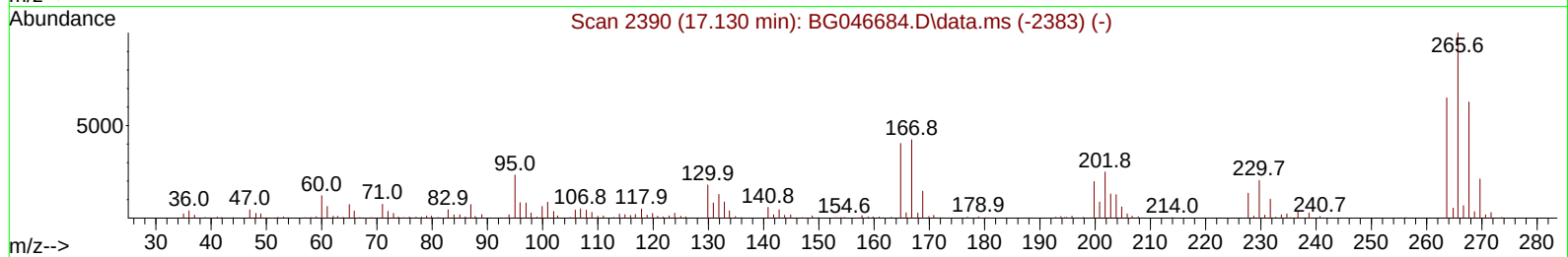
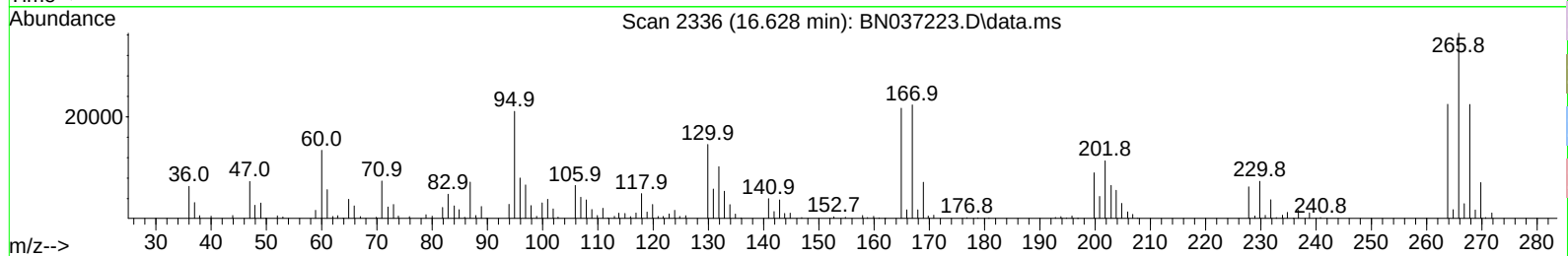
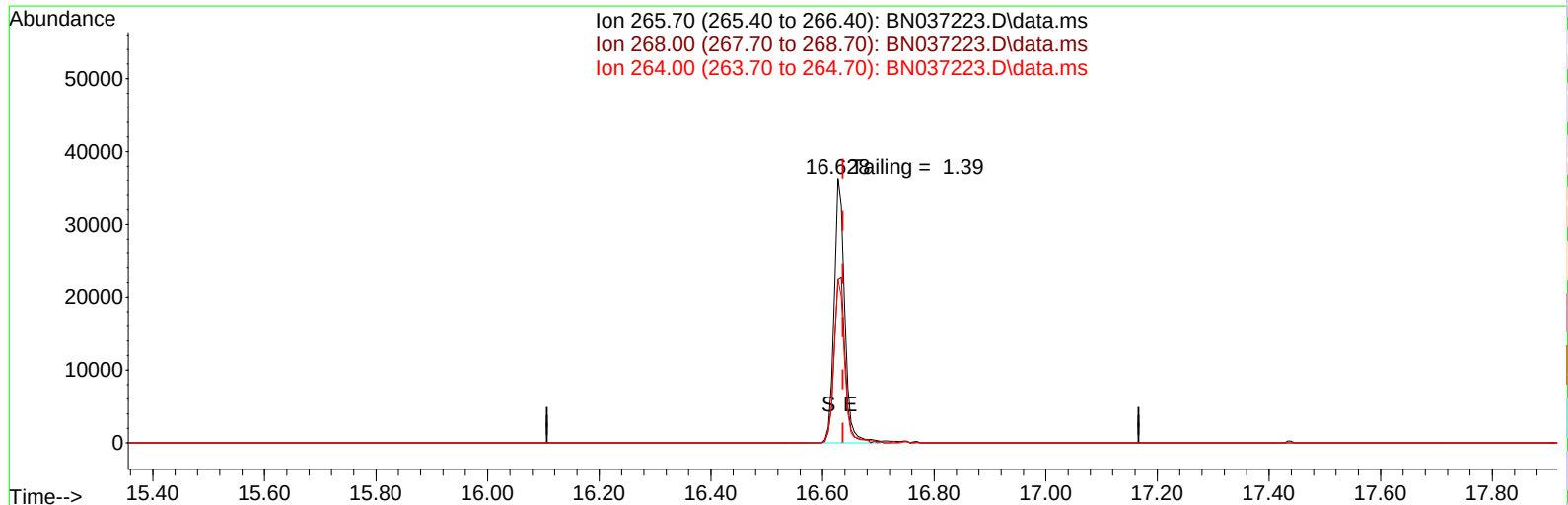
AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	80.2	40477	FAIL *
68	69	0.00	2	1.1	362	PASS
69	198	0.00	100	64.6	32573	PASS
70	69	0.00	2	0.4	132	PASS
127	198	10	80	56.8	28661	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	50453	PASS
199	198	5	9	6.7	3367	PASS
275	198	10	60	26.0	13127	PASS
365	198	1	100	5.3	2675	PASS
441	198	0.01	100	11.3	5714	PASS
442	442	50	100	100.0	31557	PASS
443	442	15	24	20.1	6344	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration



TIC: BN037223.D\data.ms

(70) Pentachlorophenol (C)

16.628min (-0.008) 13765.31 ng

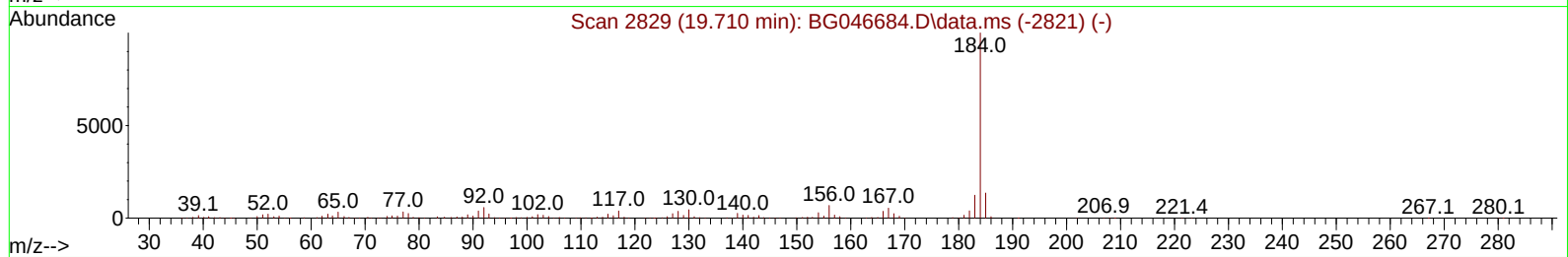
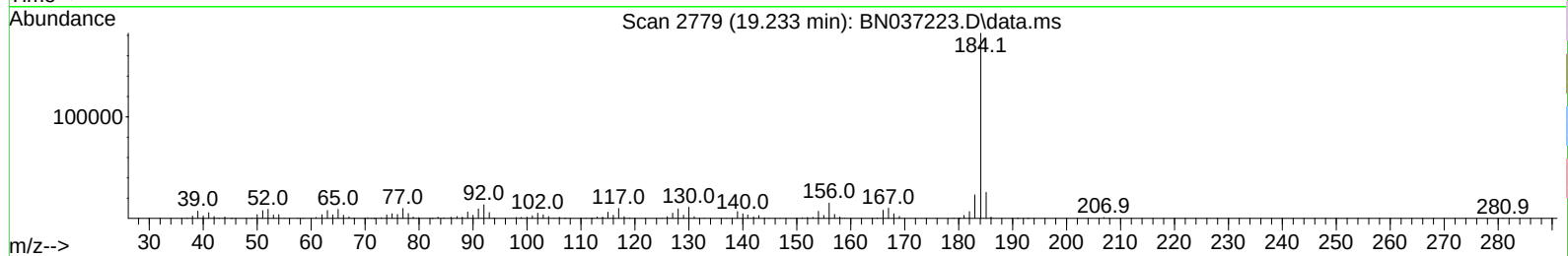
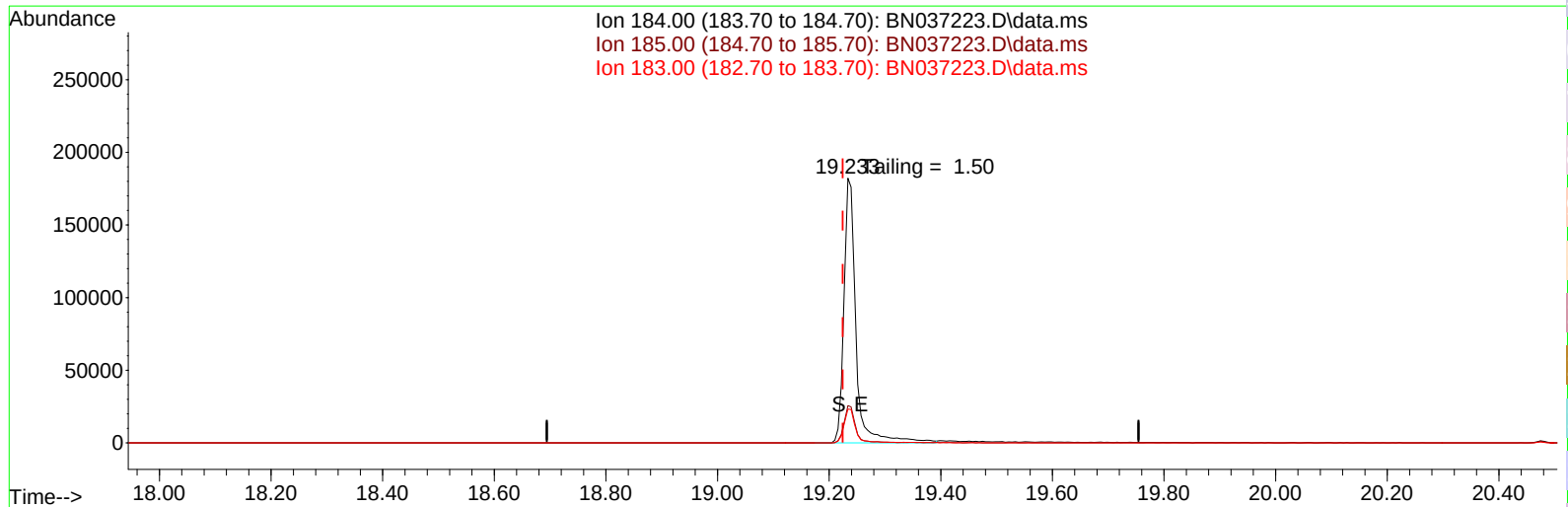
response 48504

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.73
264.00	61.60	61.82
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037223.D
Acq On : 13 Jun 2025 11:34
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 13 18:35:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 10 06:01:37 2025
Response via : Initial Calibration



TIC: BN037223.D\data.ms

(77) Benzidine

19.233min (+ 0.009) 0.00 ng

response 272616

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.12
183.00	13.20	12.75
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

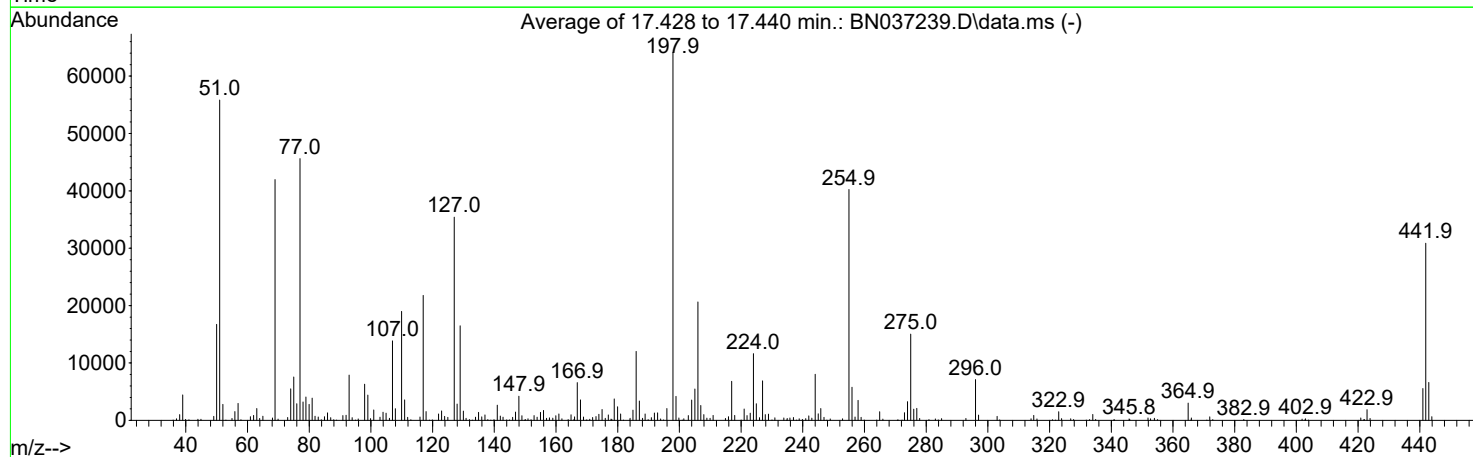
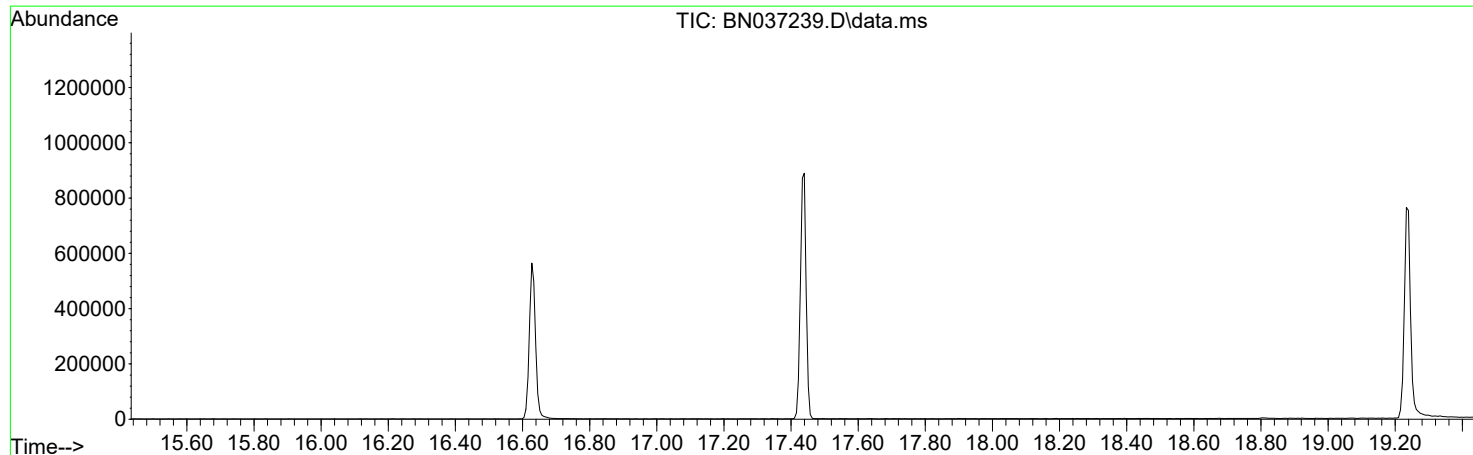
Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	<u>BN037223.D</u>
Compound Name	Response	Retention Time
DDT	179828	20.475
DDD	1789	20.086
DDE	62	19.528
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
1851	181679	1.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 13 18:43:34 2025



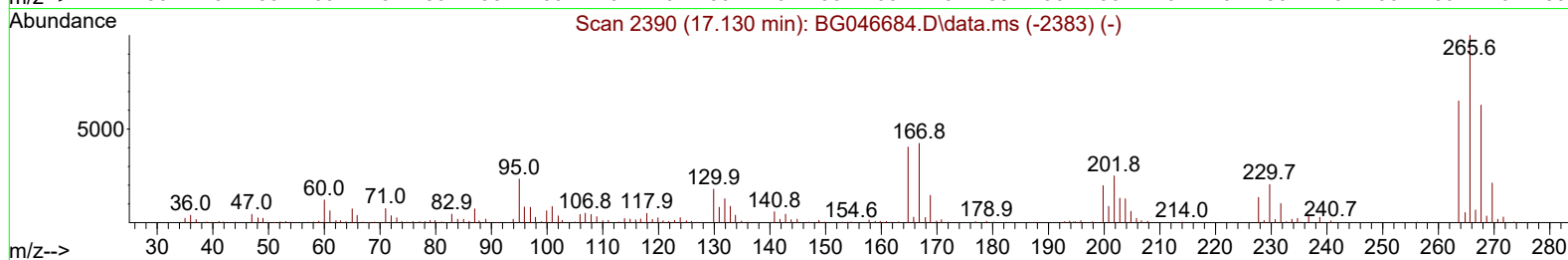
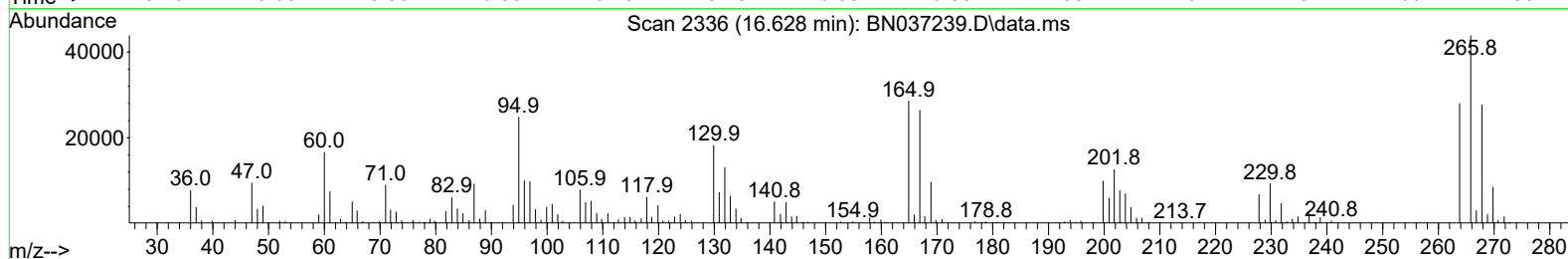
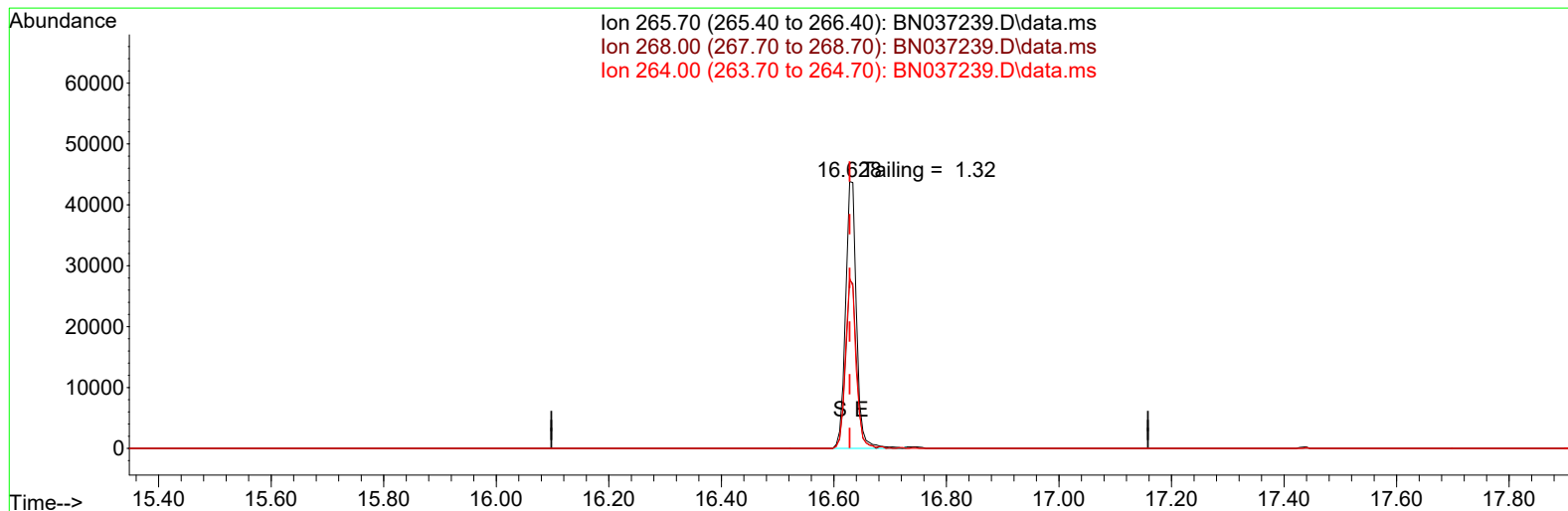
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2466

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	87.1	55816	FAIL*
68	69	0.00	2	1.0	417	PASS
69	198	0.00	100	65.4	41957	PASS
70	69	0.00	2	0.6	239	PASS
127	198	10	80	55.2	35408	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	64112	PASS
199	198	5	9	6.5	4172	PASS
275	198	10	60	23.4	15028	PASS
365	198	1	100	4.7	3005	PASS
441	198	0.01	100	8.7	5553	PASS
442	442	50	100	100.0	30862	PASS
443	442	15	24	21.5	6621	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 14 03:28:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 14 03:28:35 2025
Response via : Initial Calibration



TIC: BN037239.D\data.ms

(70) Pentachlorophenol (C)

16.628min (0.000) 18785.64 ng

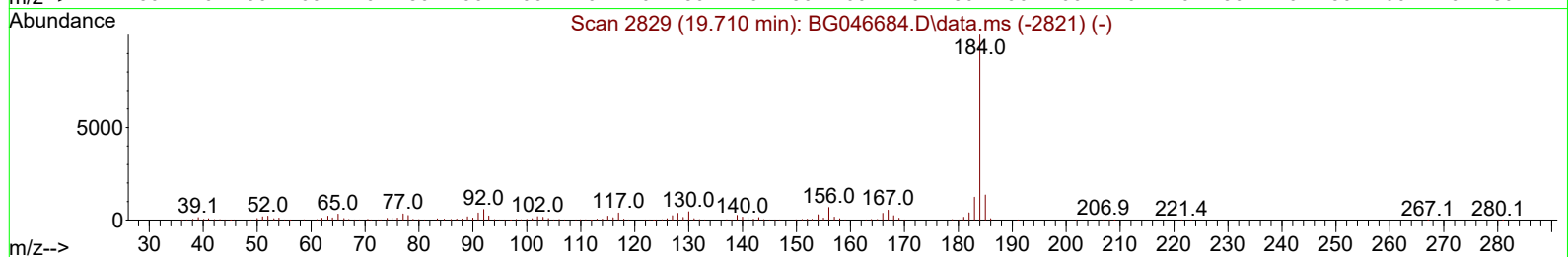
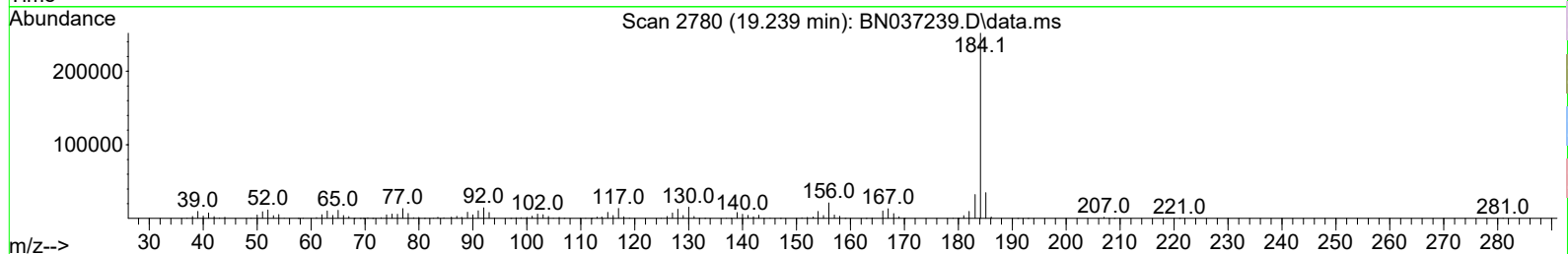
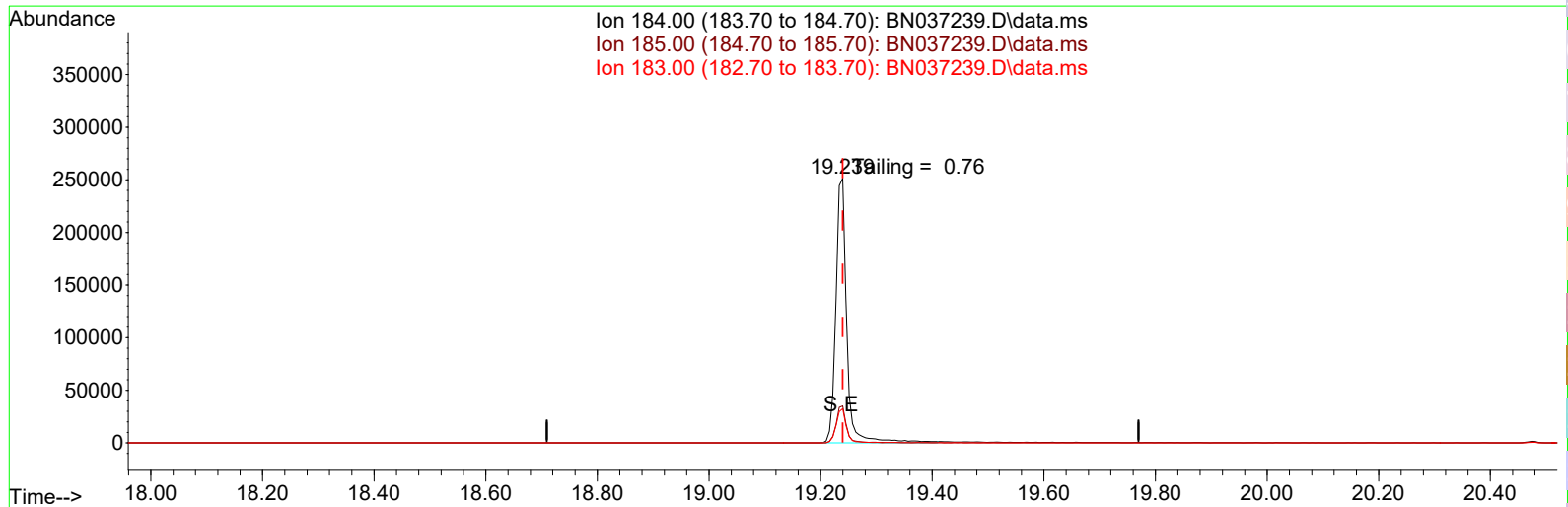
response 58970

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.13
264.00	61.60	63.84
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037239.D
Acq On : 13 Jun 2025 23:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 14 03:28:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 14 03:28:35 2025
Response via : Initial Calibration



TIC: BN037239.D\data.ms

(77) Benzidine

19.239min (0.000) 0.00 ng

response 344668

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.97
183.00	13.20	12.95
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/13/2025	BNA_N	<u>BN037239.D</u>
Compound Name	Response	Retention Time
DDT	204788	20.475
DDD	3055	20.039
DDE	55	19.528
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
3110	207898	1.50

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168391BL	SDG No.:	Q2263
Lab Sample ID:	PB168391BL	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
BN037233.D	1	06/10/25 12:20	06/13/25 19:00	PB168391

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	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		64%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.28		53 - 106		69%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		58 - 132		88%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1040	7.582				
1146-65-2	Naphthalene-d8	2300	10.372				
15067-26-2	Acenaphthene-d10	1220	14.234				
1517-22-2	Phenanthrene-d10	1840	16.996				
1719-03-5	Chrysene-d12	1580	21.18				
1520-96-3	Perylene-d12	1600	23.368				

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\BN061325\
Data File : BN037233.D
Acq On : 13 Jun 2025 19:00
Operator : RC/JU
Sample : PB168391BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168391BL

Quant Time: Jun 13 22:59:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.582	152	1036	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	2301	0.400	ng	# 0.01
13) Acenaphthene-d10	14.234	164	1224	0.400	ng	0.01
19) Phenanthrene-d10	16.996	188	1841	0.400	ng	0.02
29) Chrysene-d12	21.180	240	1578	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1599	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	932	0.366	ng	0.00
5) Phenol-d6	6.773	99	734	0.274	ng	0.01
8) Nitrobenzene-d5	8.760	82	585	0.257	ng	0.03
11) 2-Methylnaphthalene-d10	11.976	152	997	0.323	ng	0.02
14) 2,4,6-Tribromophenol	15.755	330	98	0.193	ng	0.02
15) 2-Fluorobiphenyl	12.868	172	1426	0.277	ng	0.02
27) Fluoranthene-d10	19.021	212	1981	0.411	ng	0.00
31) Terphenyl-d14	19.630	244	1248	0.350	ng	0.00

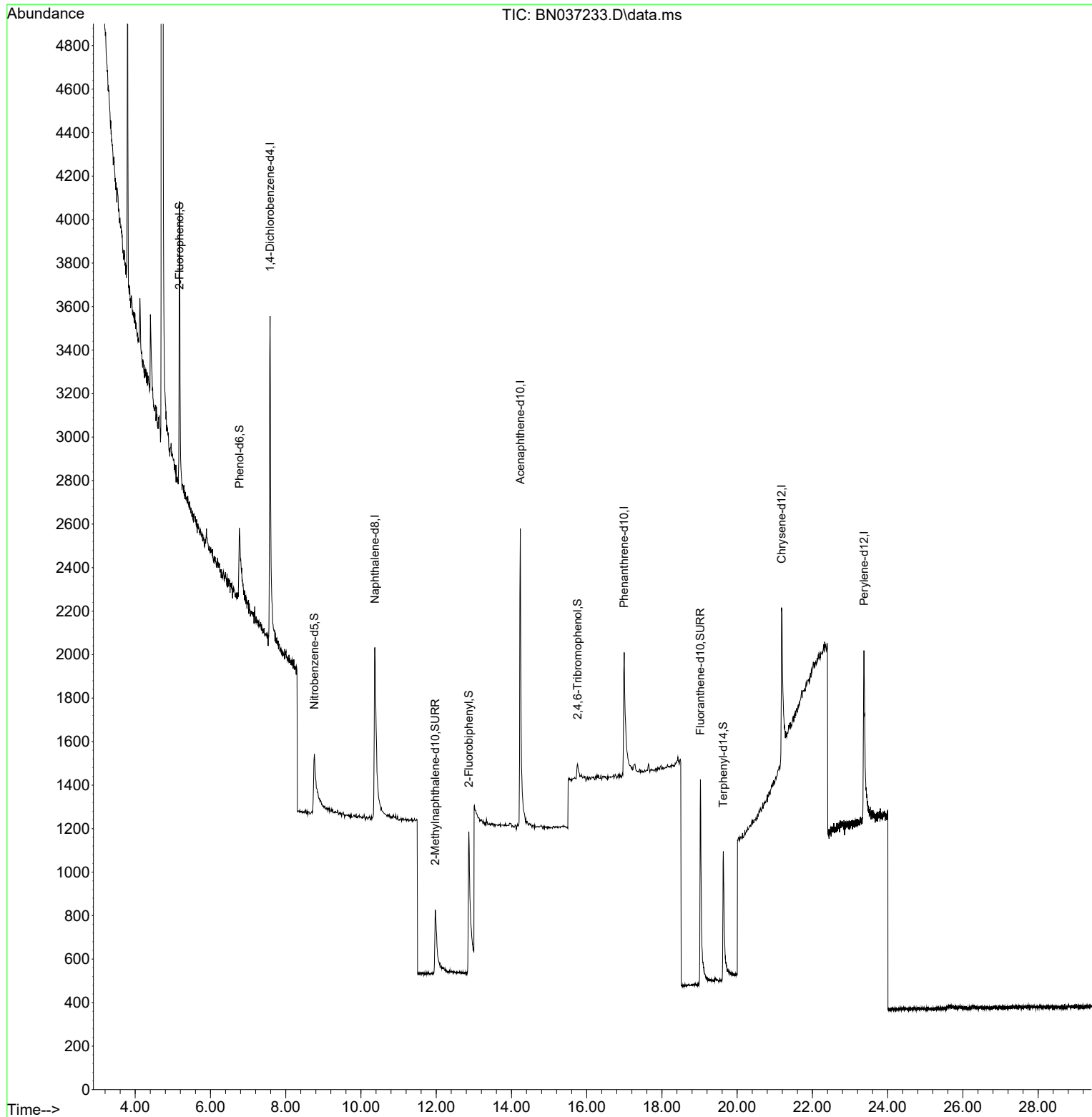
Target Compounds	Qvalue

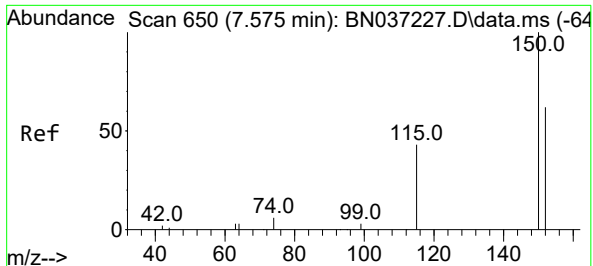
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037233.D
Acq On : 13 Jun 2025 19:00
Operator : RC/JU
Sample : PB168391BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168391BL

Quant Time: Jun 13 22:59:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

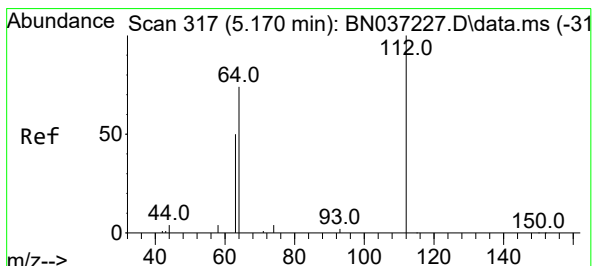
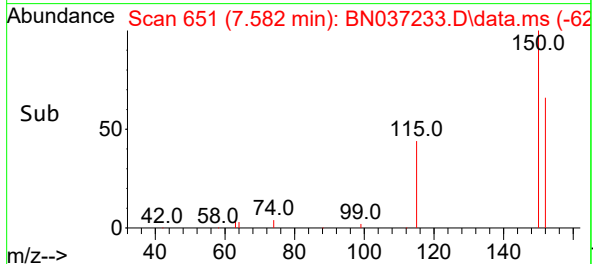
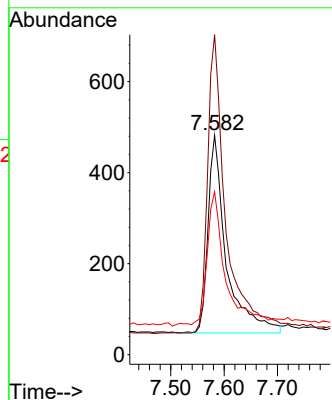
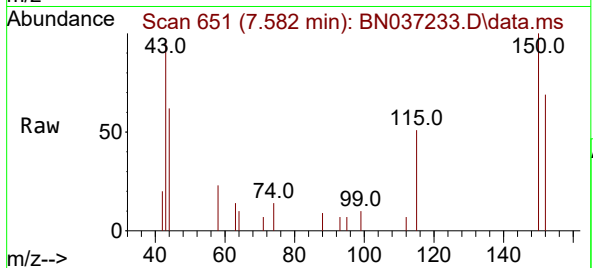




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.582 min Scan# 61
Delta R.T. 0.007 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

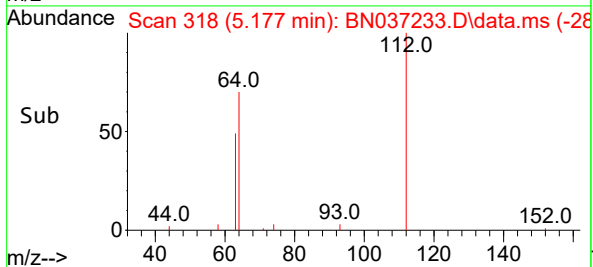
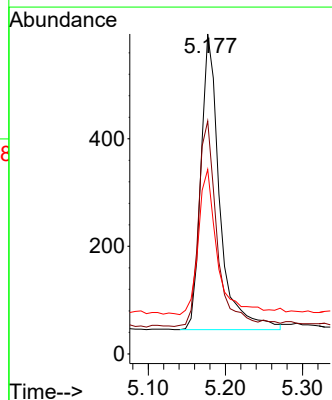
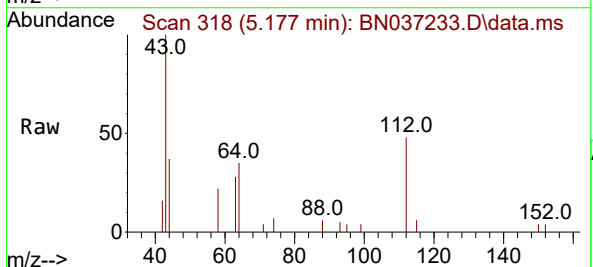
Instrument :
BNA_N
ClientSampleId :
PB168391BL

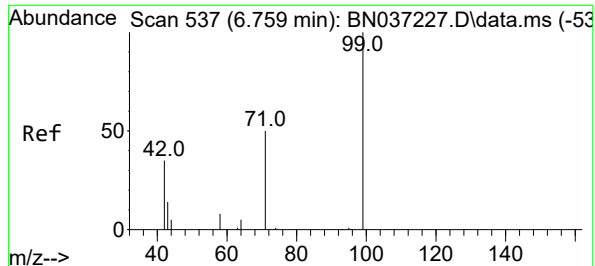
Tgt Ion:152 Resp: 1036
Ion Ratio Lower Upper
152 100
150 145.9 125.2 187.8
115 74.3 58.4 87.6



#4
2-Fluorophenol
Concen: 0.366 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

Tgt Ion:112 Resp: 932
Ion Ratio Lower Upper
112 100
64 67.5 57.2 85.8
63 48.2 39.8 59.6

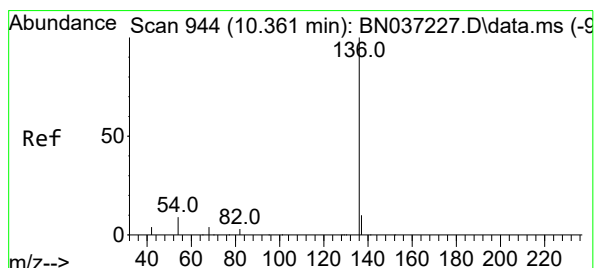
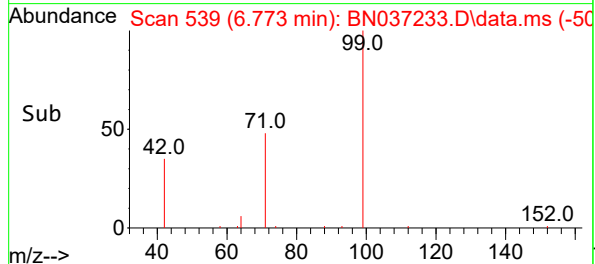
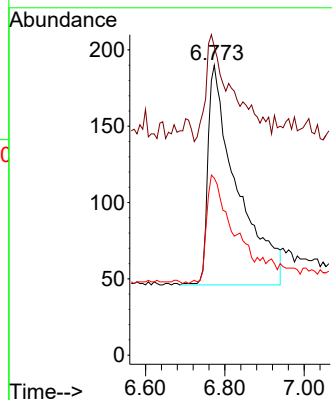
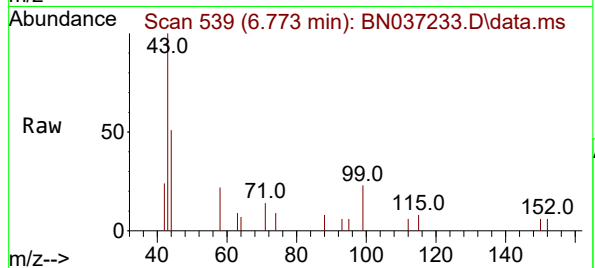




#5
Phenol-d6
Concen: 0.274 ng
RT: 6.773 min Scan# 511
Delta R.T. 0.015 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

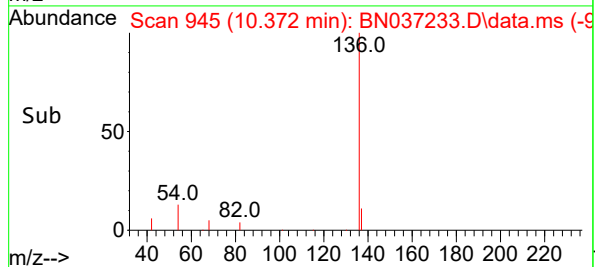
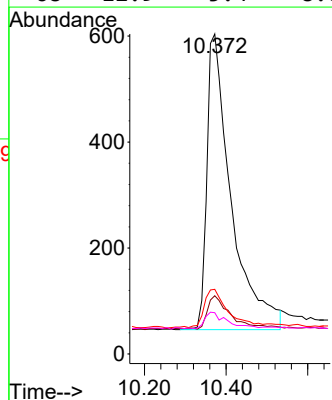
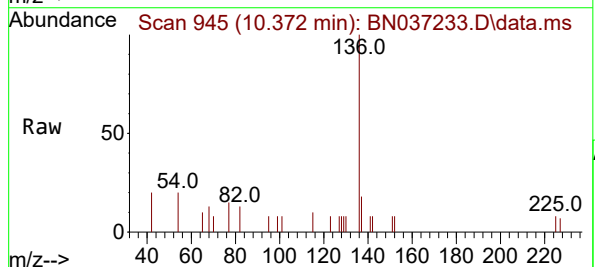
Instrument :
BNA_N
ClientSampleId :
PB168391BL

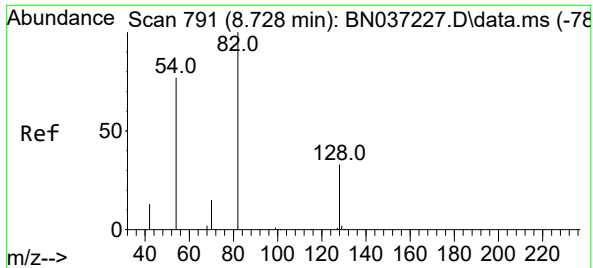
Tgt Ion	Ratio	Lower	Upper
99	100		
42	25.2	36.2	54.4#
71	43.9	42.4	63.6



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

Tgt Ion	Ratio	Lower	Upper
136	100		
137	18.2	10.6	15.8#
54	20.2	9.2	13.8#
68	12.9	5.4	8.0#

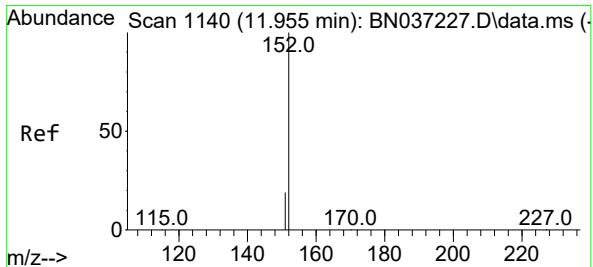
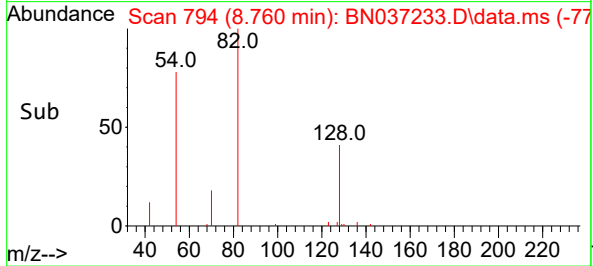
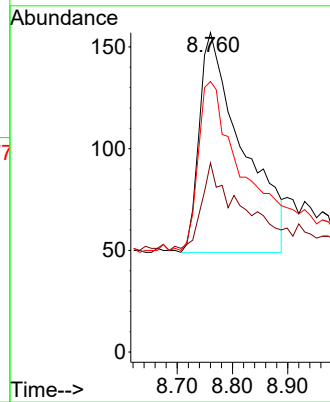
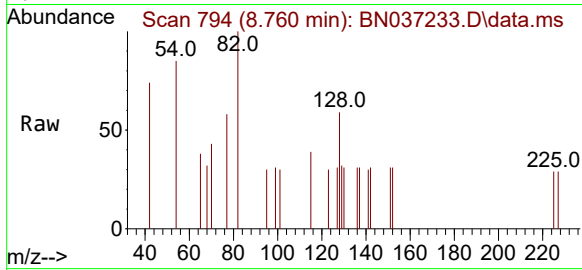




#8
Nitrobenzene-d5
Concen: 0.257 ng
RT: 8.760 min Scan# 791
Delta R.T. 0.032 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

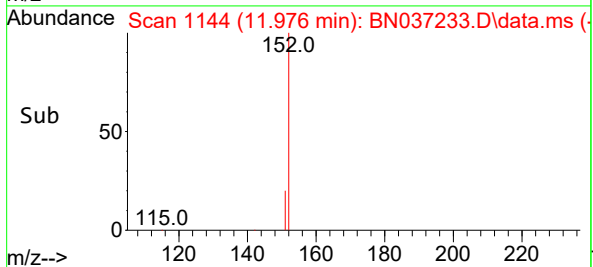
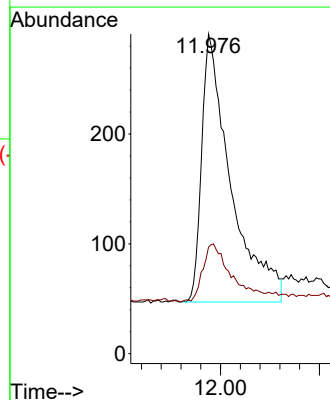
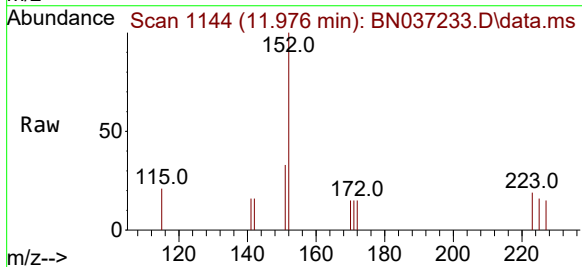
Instrument :
BNA_N
ClientSampleId :
PB168391BL

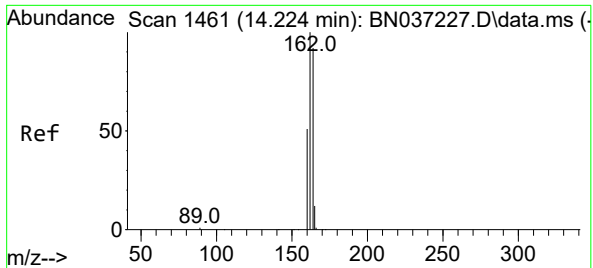
Tgt Ion:	82	Resp:	585
Ion	Ratio	Lower	Upper
82	100		
128	59.2	31.2	46.8
54	84.7	63.3	94.9



#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.976 min Scan# 1144
Delta R.T. 0.020 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

Tgt Ion:	152	Resp:	997
Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.9	26.9

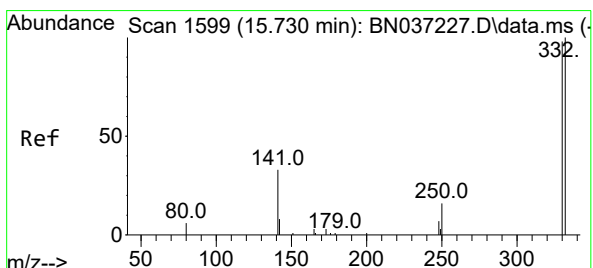
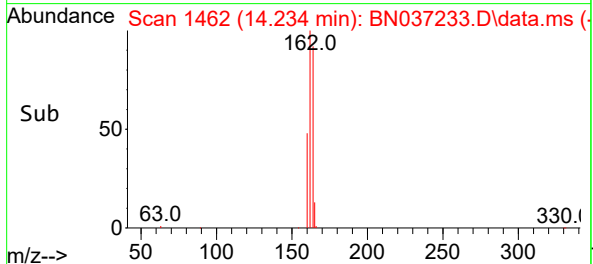
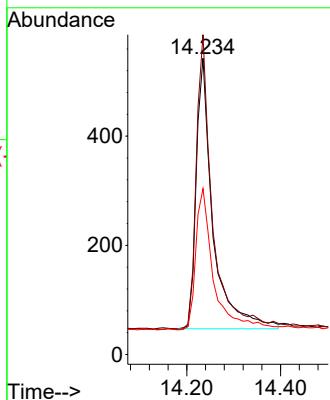
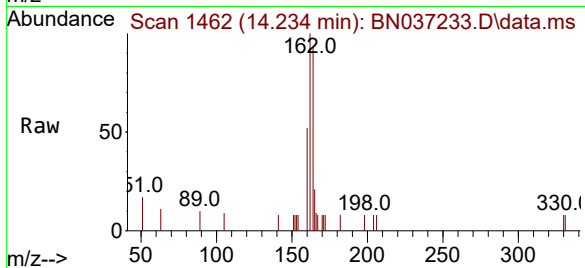




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 1461
Delta R.T. 0.011 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

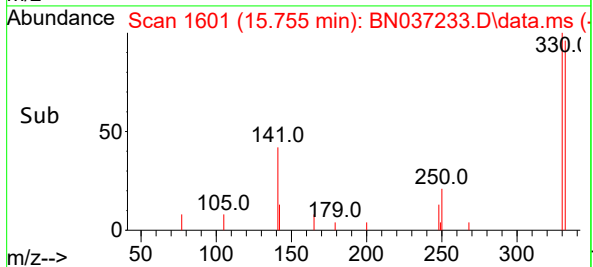
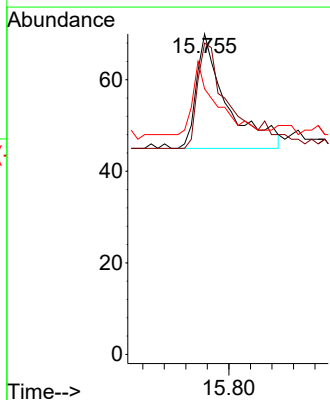
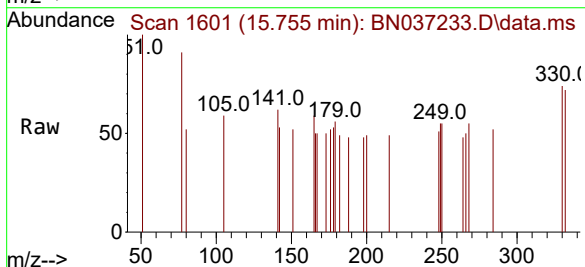
Instrument :
BNA_N
ClientSampleId :
PB168391BL

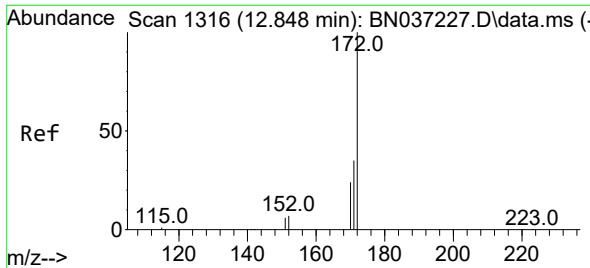
Tgt Ion:164 Resp: 1224
Ion Ratio Lower Upper
164 100
162 107.9 86.7 130.1
160 56.0 45.8 68.6



#14
2,4,6-Tribromophenol
Concen: 0.193 ng
RT: 15.755 min Scan# 1601
Delta R.T. 0.025 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

Tgt Ion:330 Resp: 98
Ion Ratio Lower Upper
330 100
332 94.9 74.9 112.3
141 50.0 45.1 67.7

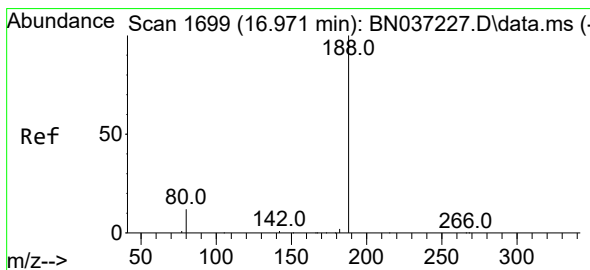
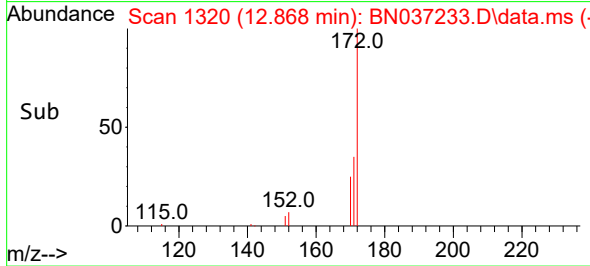
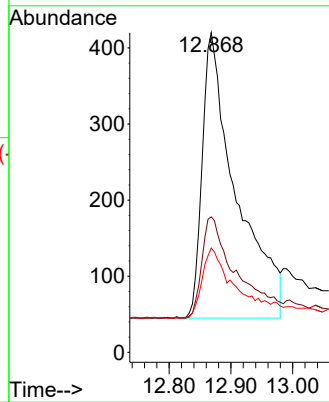
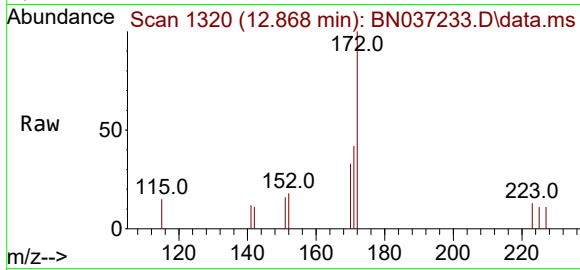




#15
2-Fluorobiphenyl
Concen: 0.277 ng
RT: 12.868 min Scan# 11
Delta R.T. 0.020 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

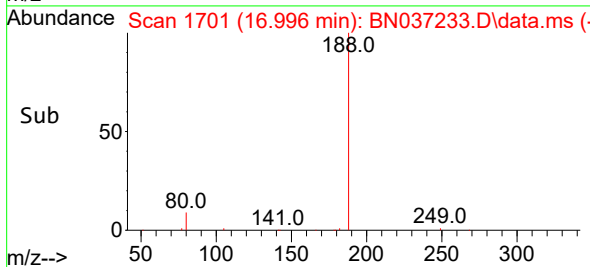
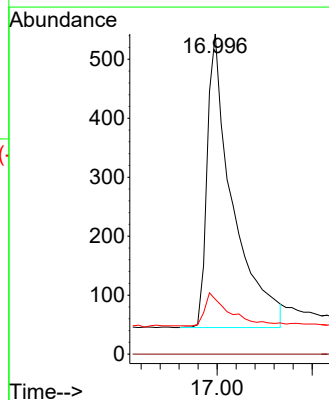
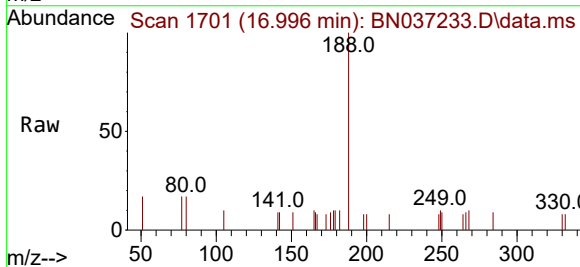
Instrument :
BNA_N
ClientSampleId :
PB168391BL

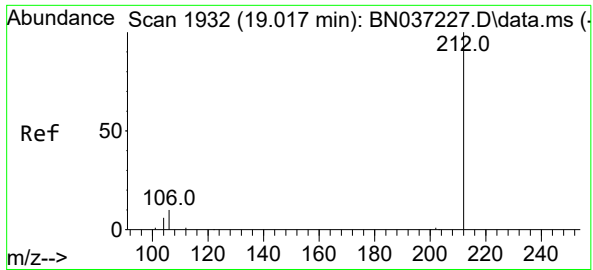
Tgt Ion:172	Resp:	1426
Ion	Ratio	Lower Upper
172	100	
171	42.4	29.8 44.8
170	32.6	21.1 31.7#



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.996 min Scan# 1701
Delta R.T. 0.025 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

Tgt Ion:188	Resp:	1841
Ion	Ratio	Lower Upper
188	100	
94	0.0	0.0 0.0
80	17.1	12.2 18.4

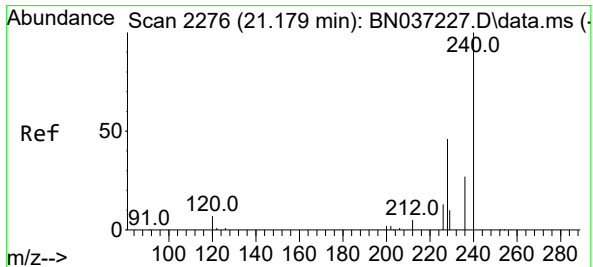
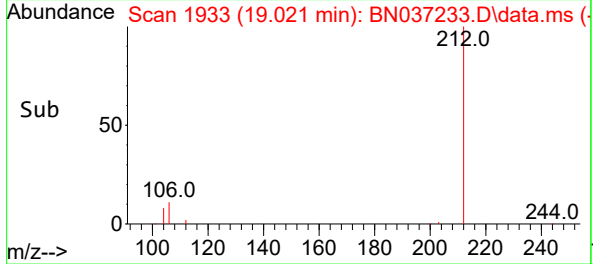
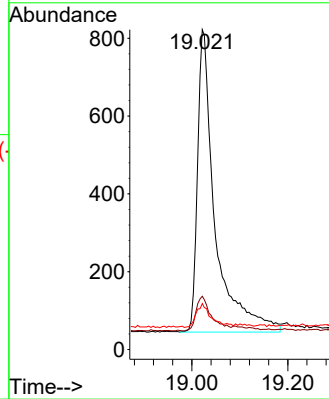
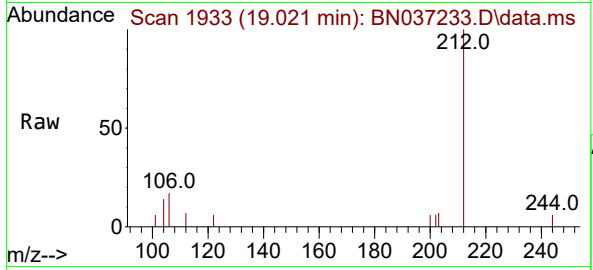




#27
Fluoranthene-d10
Concen: 0.411 ng
RT: 19.021 min Scan# 1932
Delta R.T. 0.005 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

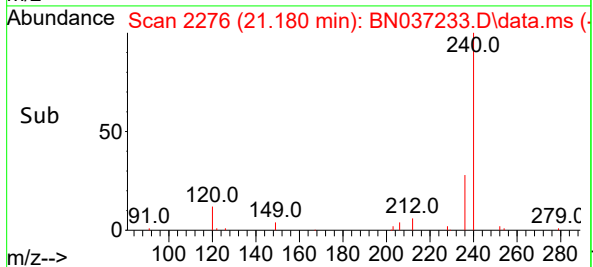
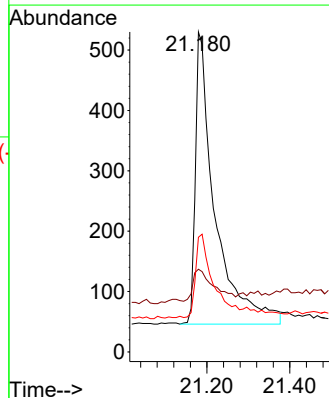
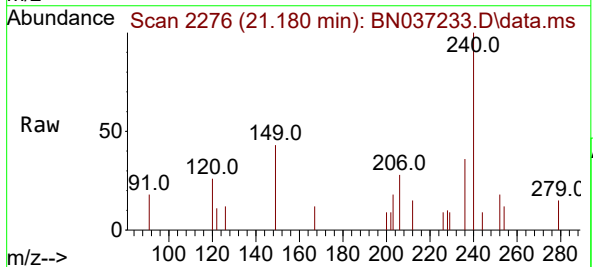
Instrument :
BNA_N
ClientSampleId :
PB168391BL

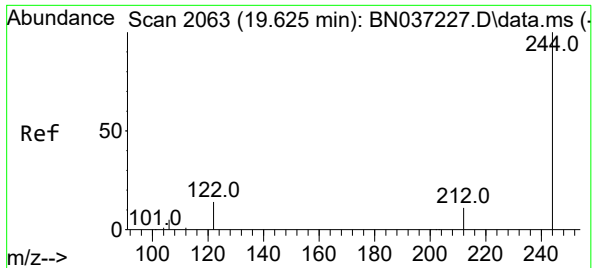
Tgt Ion:212 Resp: 1981
Ion Ratio Lower Upper
212 100
106 10.0 9.3 13.9
104 6.4 5.7 8.5



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

Tgt Ion:240 Resp: 1578
Ion Ratio Lower Upper
240 100
120 25.8 11.3 16.9#
236 35.8 24.4 36.6

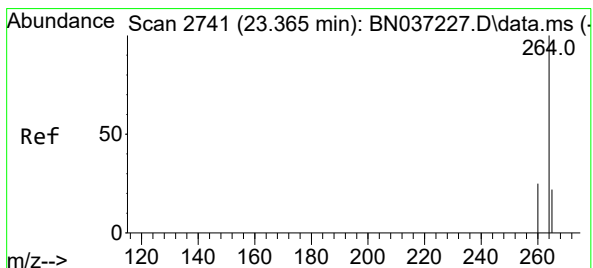
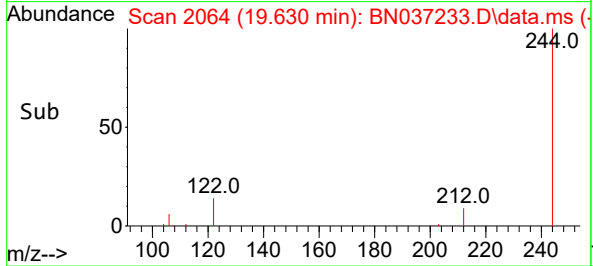
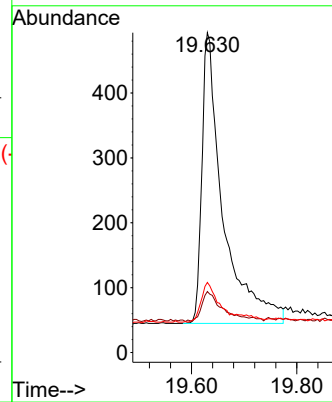
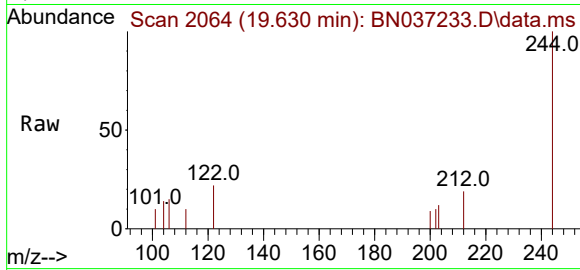




#31
Terphenyl-d14
Concen: 0.350 ng
RT: 19.630 min Scan# 2064
Delta R.T. 0.005 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

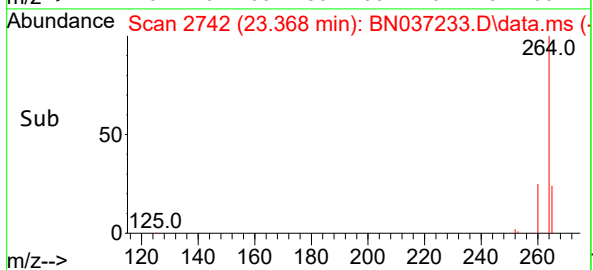
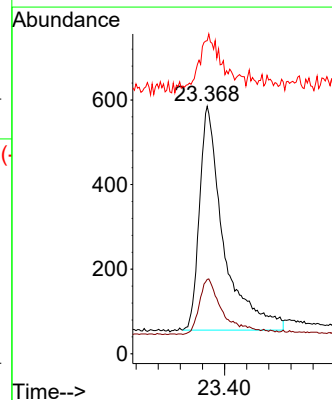
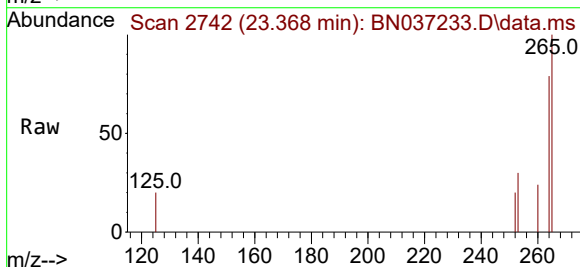
Instrument :
BNA_N
ClientSampleId :
PB168391BL

Tgt Ion:244 Resp: 1248
Ion Ratio Lower Upper
244 100
212 19.1 12.2 18.2#
122 21.9 14.3 21.5#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.368 min Scan# 2742
Delta R.T. 0.003 min
Lab File: BN037233.D
Acq: 13 Jun 2025 19:00

Tgt Ion:264 Resp: 1599
Ion Ratio Lower Upper
264 100
260 30.1 22.8 34.2
265 126.5 66.4 99.6#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168391BS	SDG No.:	Q2263
Lab Sample ID:	PB168391BS	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
BN037236.D	1	06/10/25 12:20	06/13/25 20:49	PB168391

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.39		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1480	7.575				
1146-65-2	Naphthalene-d8	3520	10.351				
15067-26-2	Acenaphthene-d10	1760	14.224				
1517-22-2	Phenanthrene-d10	2960	16.971				
1719-03-5	Chrysene-d12	2090	21.171				
1520-96-3	Perylene-d12	1980	23.363				

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\BN061325\
 Data File : BN037236.D
 Acq On : 13 Jun 2025 20:49
 Operator : RC/JU
 Sample : PB168391BS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB168391BS

Manual Integrations**APPROVED**

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 23:00:27 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 13 18:43:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1477	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3518	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1759	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2958	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2090	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1978	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1185	0.327	ng	0.00
5) Phenol-d6	6.759	99	1317	0.344	ng	0.00
8) Nitrobenzene-d5	8.728	82	1257	0.362	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1832m	0.388	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	226	0.309	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2730	0.369	ng	0.00
27) Fluoranthene-d10	19.017	212	2623	0.339	ng	0.00
31) Terphenyl-d14	19.625	244	1755	0.371	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	796	0.393	ng	# 43
3) n-Nitrosodimethylamine	3.415	42	1681	0.364	ng	# 98
6) bis(2-Chloroethyl)ether	7.012	93	1244	0.363	ng	94
9) Naphthalene	10.404	128	3505	0.344	ng	98
10) Hexachlorobutadiene	10.693	225	890	0.359	ng	# 97
12) 2-Methylnaphthalene	12.031	142	1932	0.312	ng	98
16) Acenaphthylene	13.946	152	3185	0.370	ng	98
17) Acenaphthene	14.288	154	1906	0.343	ng	99
18) Fluorene	15.282	166	2411	0.337	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	219	0.399	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	702	0.364	ng	96
22) Hexachlorobenzene	16.289	284	839	0.375	ng	98
23) Atrazine	16.450	200	638	0.371	ng	# 91
24) Pentachlorophenol	16.636	266	229	0.209	ng	95
25) Phenanthrene	17.021	178	3397	0.362	ng	99
26) Anthracene	17.108	178	3155	0.367	ng	99
28) Fluoranthene	19.045	202	3664	0.334	ng	99
30) Pyrene	19.412	202	3754	0.382	ng	100
32) Benzo(a)anthracene	21.162	228	2669	0.378	ng	99
33) Chrysene	21.206	228	3248	0.369	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2029	0.386	ng	98
36) Indeno(1,2,3-cd)pyrene	25.552	276	3030	0.380	ng	99
37) Benzo(b)fluoranthene	22.708	252	2546	0.352	ng	95
38) Benzo(k)fluoranthene	22.754	252	3130	0.375	ng	97
39) Benzo(a)pyrene	23.269	252	2538	0.390	ng	96
40) Dibenzo(a,h)anthracene	25.570	278	2336	0.385	ng	100
41) Benzo(g,h,i)perylene	26.219	276	2629	0.355	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037236.D
Acq On : 13 Jun 2025 20:49
Operator : RC/JU
Sample : PB168391BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB168391BS

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

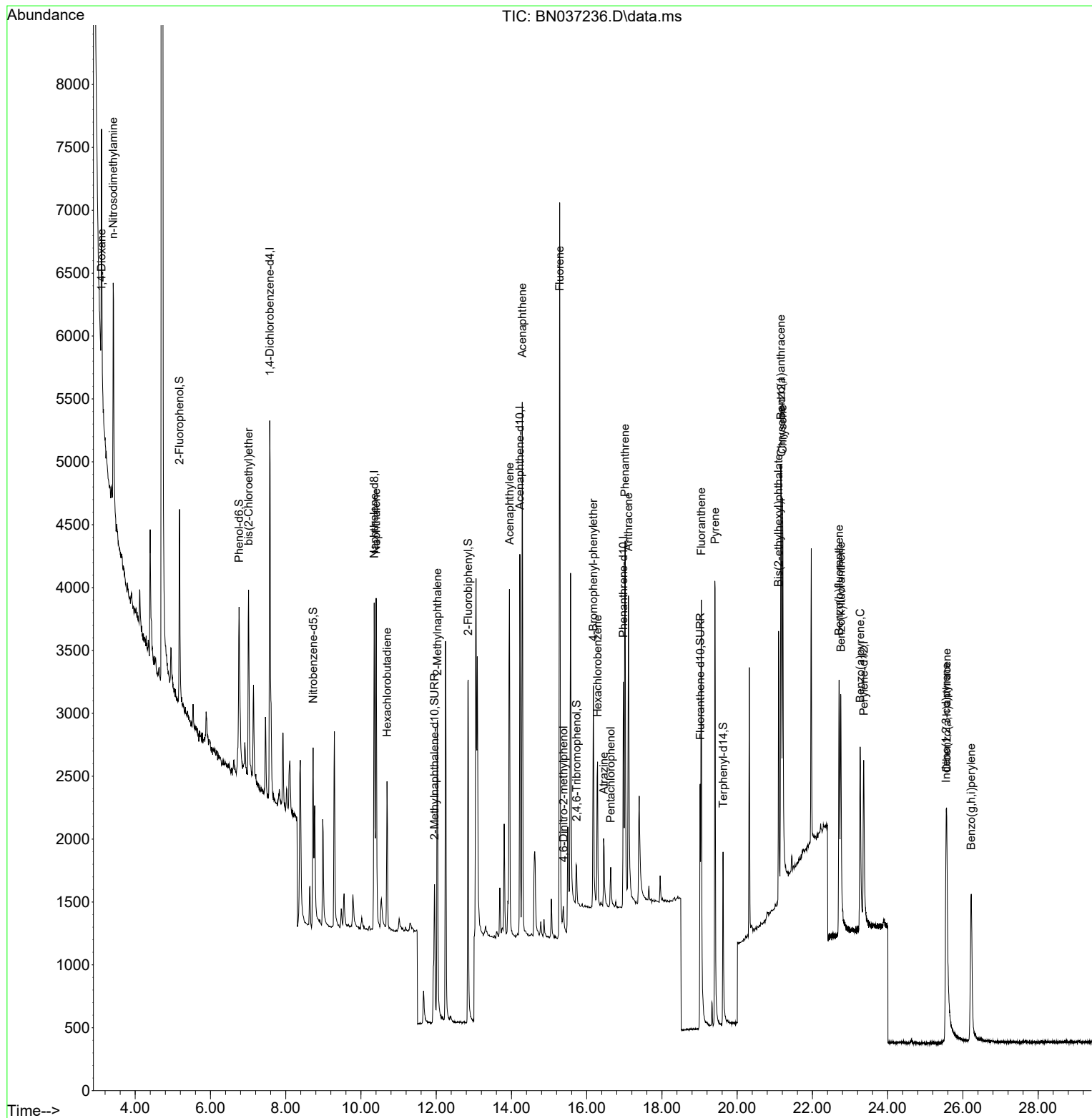
Quant Time: Jun 13 23:00:27 2025

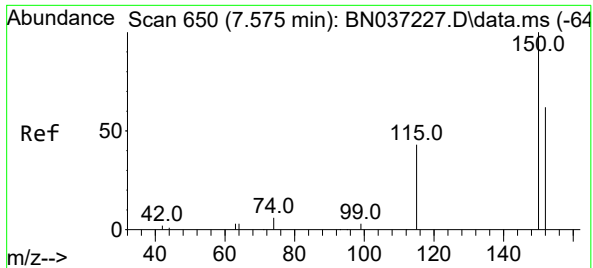
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 13 18:43:34 2025

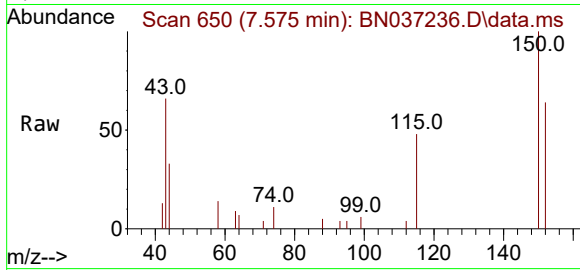
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

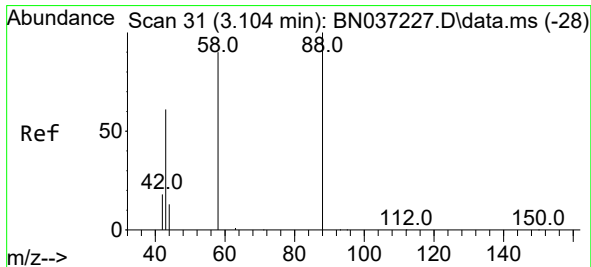
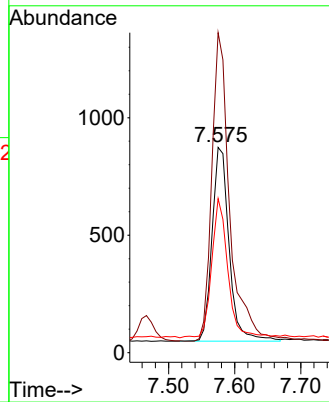
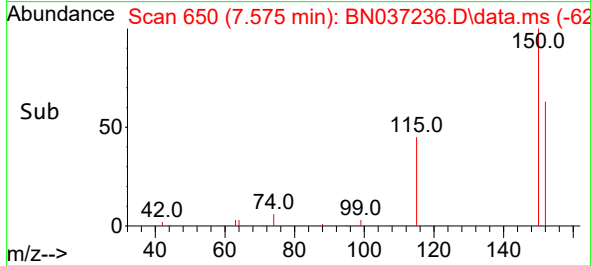
Instrument :
BNA_N
ClientSampleId :
PB168391BS



Tgt Ion: 152 Resp: 147
Ion Ratio Lower Upper
152 100
150 155.8 125.2 187.8
115 75.1 58.4 87.6

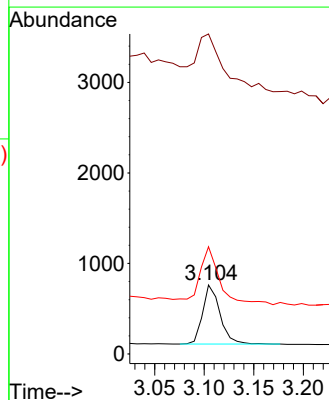
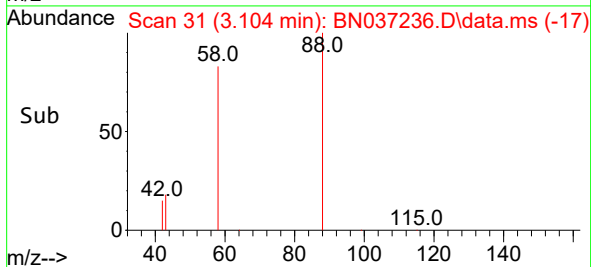
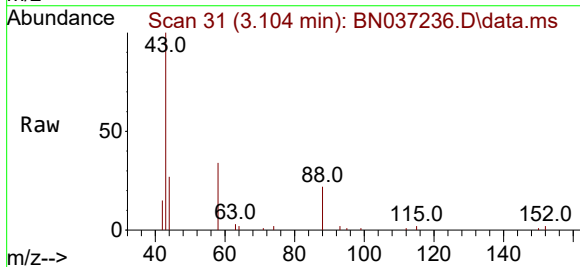
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

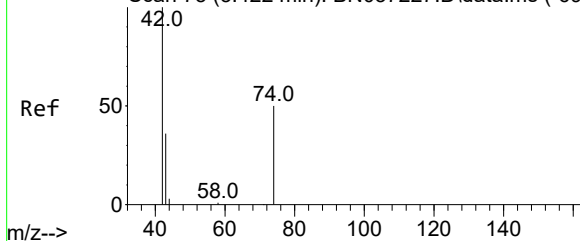


#2
1,4-Dioxane
Concen: 0.393 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion: 88 Resp: 796
Ion Ratio Lower Upper
88 100
43 154.0 52.6 79.0#
58 109.7 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.364 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

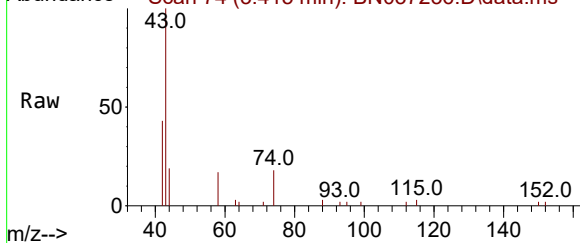
Instrument :

BNA_N

ClientSampleId :

PB168391BS

Abundance Scan 74 (3.415 min): BN037236.D\data.ms



Tgt Ion: 42 Resp: 168

Ion Ratio Lower Upper

42 100

74 54.7 44.6 66.8

44 5.9 3.5 5.3

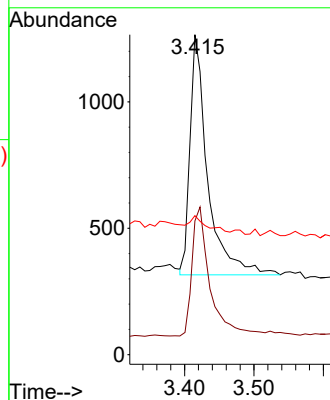
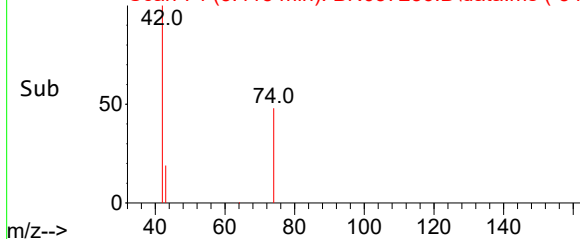
Manual Integrations

APPROVED

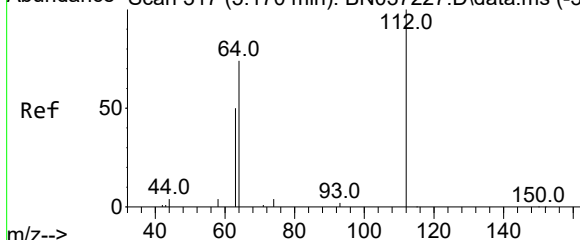
Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Abundance Scan 74 (3.415 min): BN037236.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.327 ng

RT: 5.177 min Scan# 318

Delta R.T. 0.007 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Tgt Ion: 112 Resp: 1185

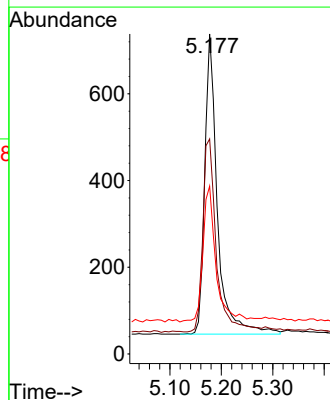
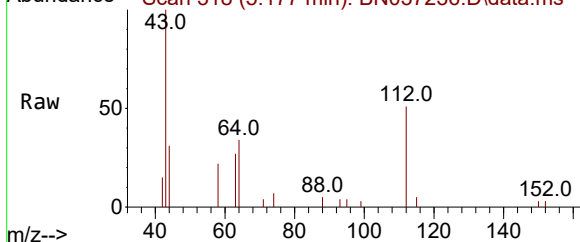
Ion Ratio Lower Upper

112 100

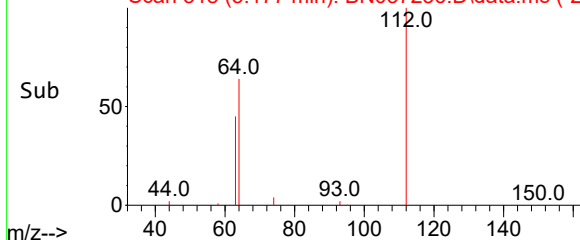
64 69.1 57.2 85.8

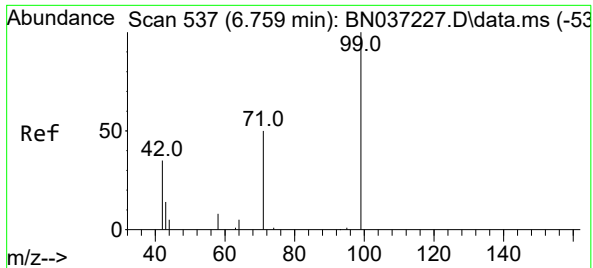
63 47.2 39.8 59.6

Abundance Scan 318 (5.177 min): BN037236.D\data.ms



Abundance Scan 318 (5.177 min): BN037236.D\data.ms (-28)





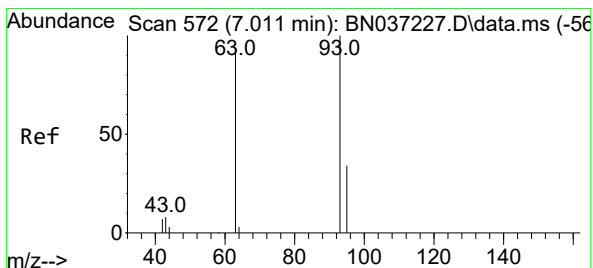
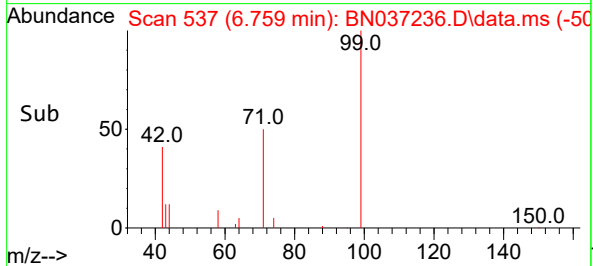
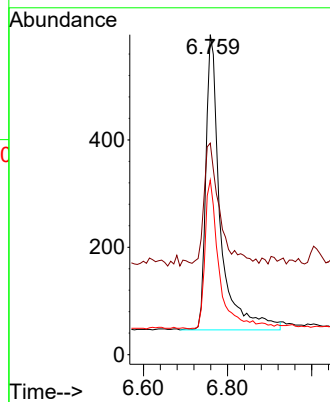
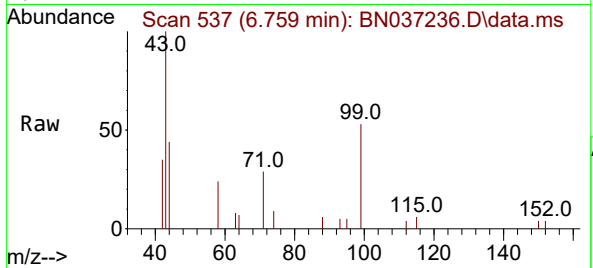
#5
Phenol-d6
Concen: 0.344 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Instrument :
BNA_N
ClientSampleId :
PB168391BS

Tgt Ion	Ratio	Lower	Upper
99	100		
42	42.7	36.2	54.4
71	48.7	42.4	63.6

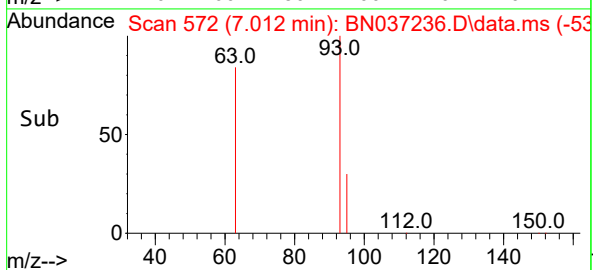
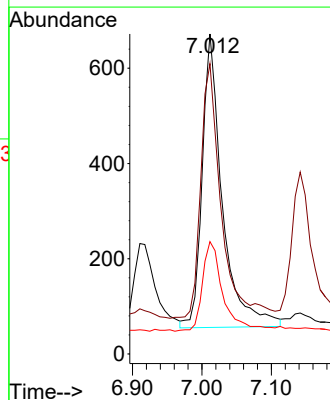
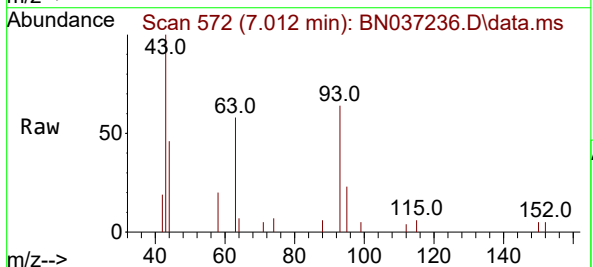
Manual Integrations
APPROVED

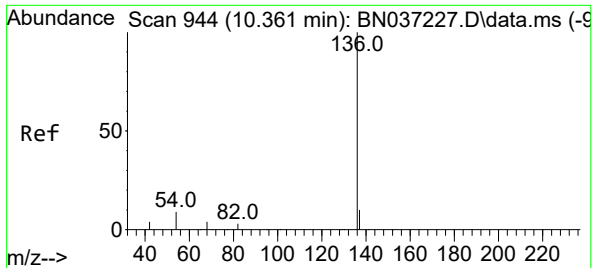
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.363 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

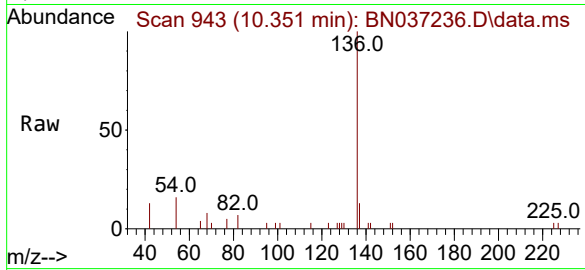
Tgt Ion	Ratio	Lower	Upper
93	100		
63	87.9	75.2	112.8
95	31.4	28.3	42.5





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

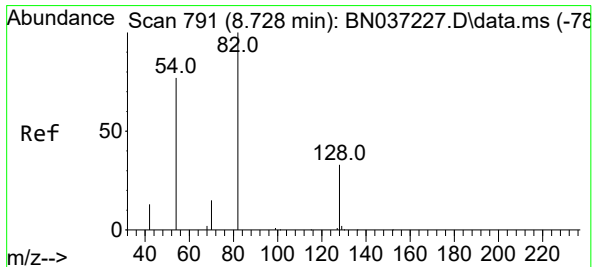
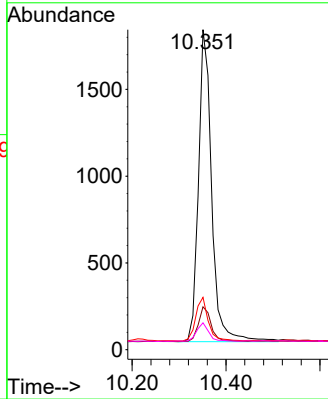
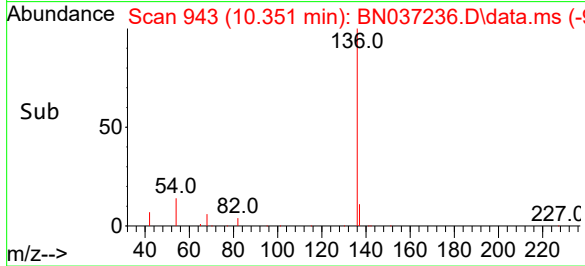
Instrument :
BNA_N
ClientSampleId :
PB168391BS



Tgt Ion:136 Resp: 3518
Ion Ratio Lower Upper
136 100
137 13.4 10.6 15.8
54 16.4 9.2 13.8
68 8.4 5.4 8.0#

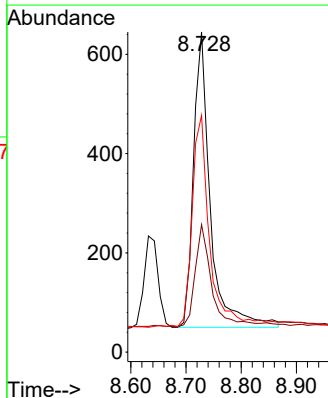
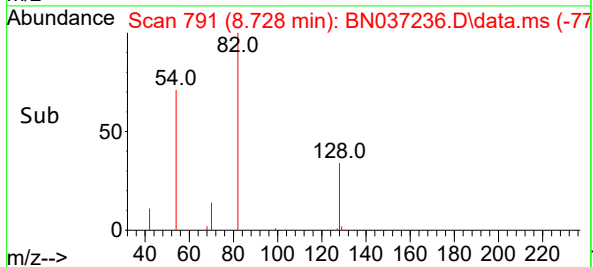
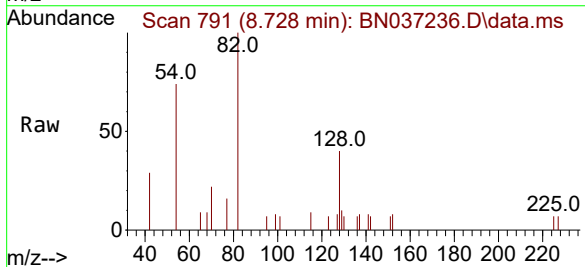
Manual Integrations
APPROVED

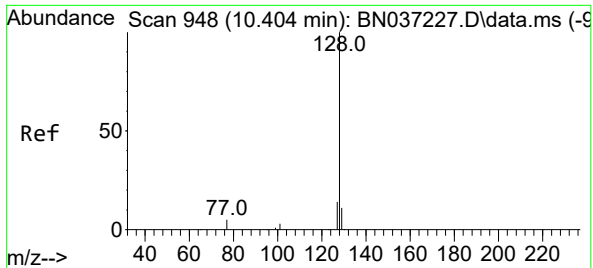
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion: 82 Resp: 1257
Ion Ratio Lower Upper
82 100
128 39.8 31.2 46.8
54 74.0 63.3 94.9





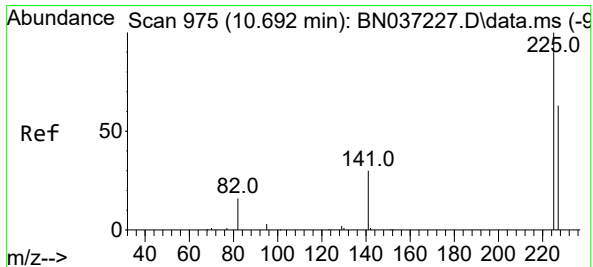
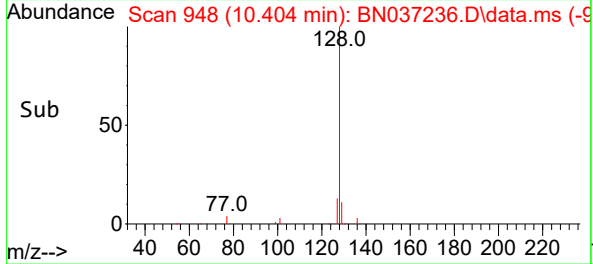
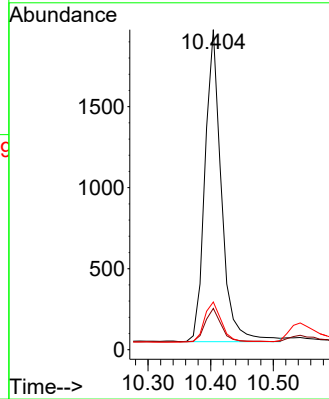
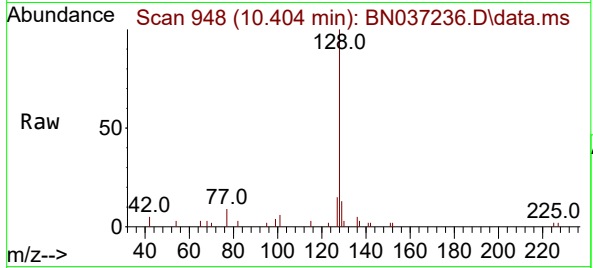
#9
Naphthalene
Concen: 0.344 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Instrument :
BNA_N
ClientSampleId :
PB168391BS

Tgt Ion:128 Resp: 350
Ion Ratio Lower Upper
128 100
129 12.9 10.7 16.1
127 14.9 12.6 19.0

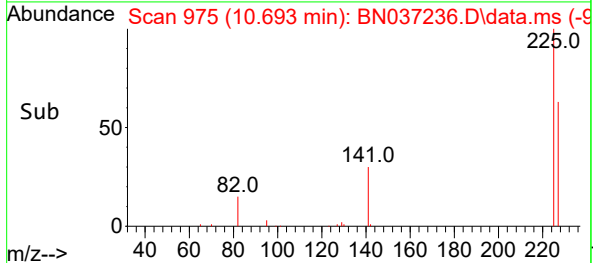
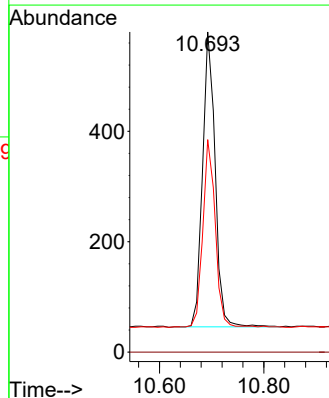
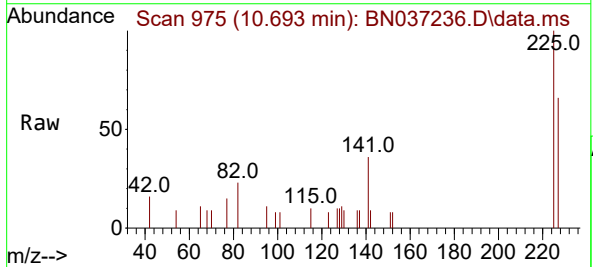
Manual Integrations
APPROVED

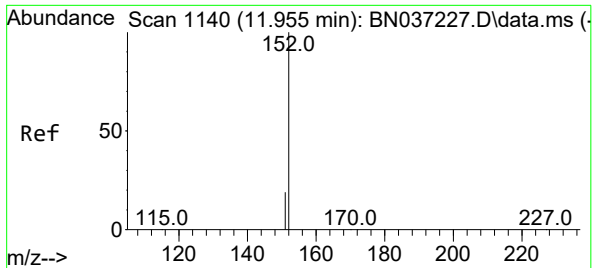
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:225 Resp: 890
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 49.2 73.8





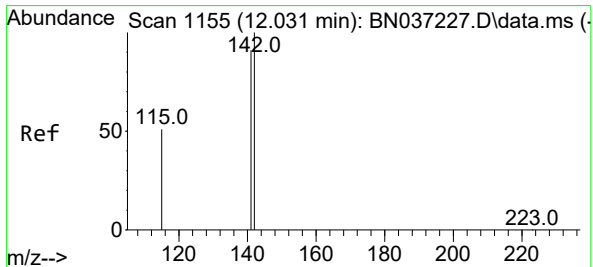
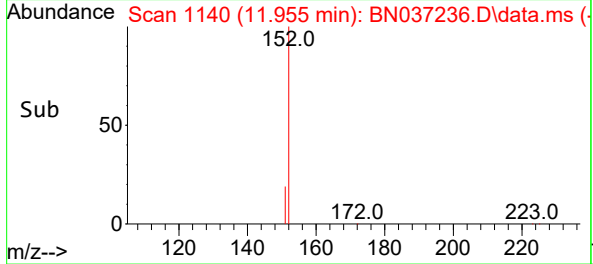
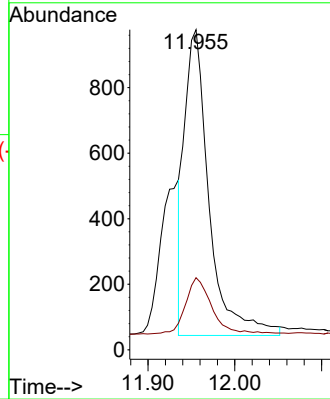
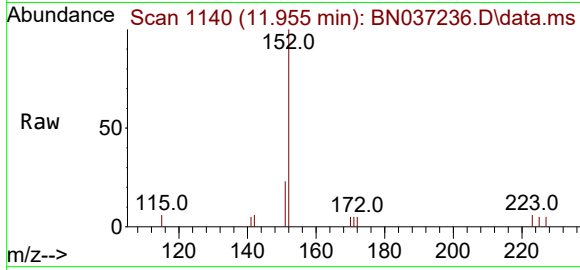
#11
2-Methylnaphthalene-d10
Concen: 0.388 ng m
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Instrument :
BNA_N
ClientSampleId :
PB168391BS

Tgt Ion:152 Resp: 1832
Ion Ratio Lower Upper
152 100
151 20.5 17.9 26.9

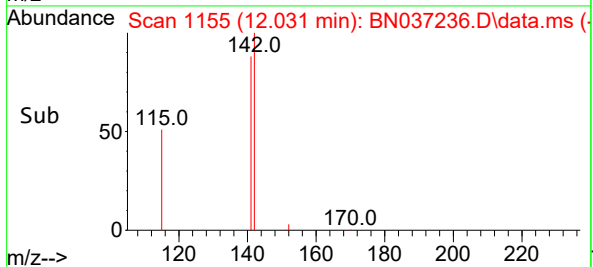
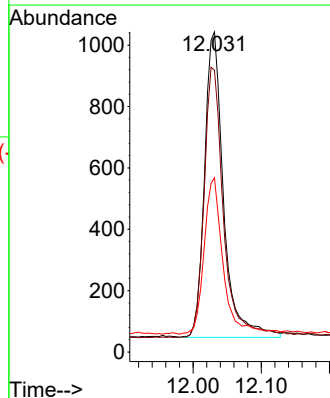
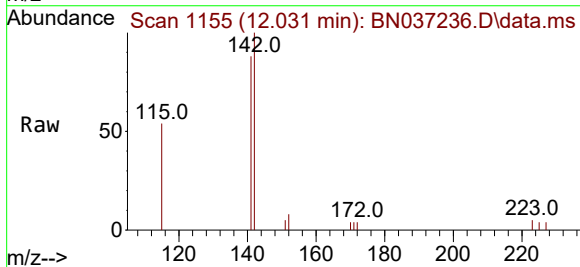
Manual Integrations
APPROVED

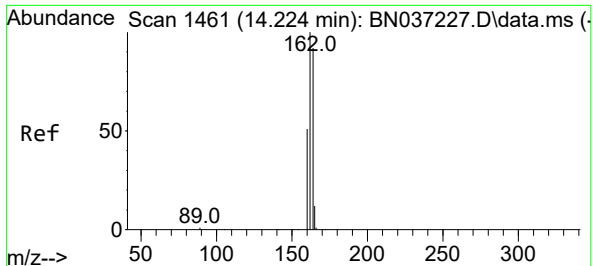
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#12
2-Methylnaphthalene
Concen: 0.312 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

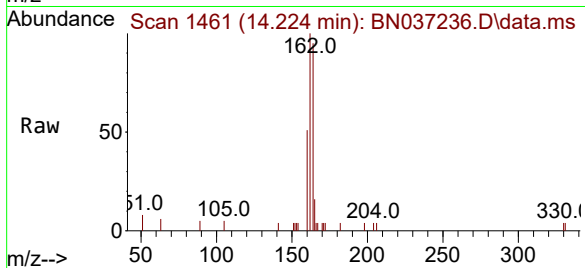
Tgt Ion:142 Resp: 1932
Ion Ratio Lower Upper
142 100
141 88.1 73.0 109.6
115 54.5 43.3 64.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

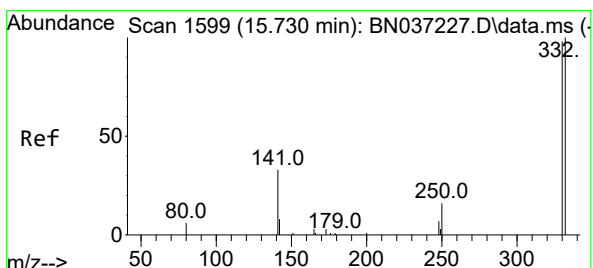
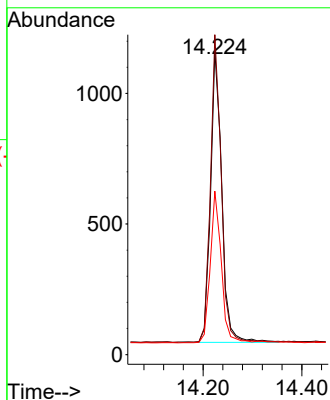
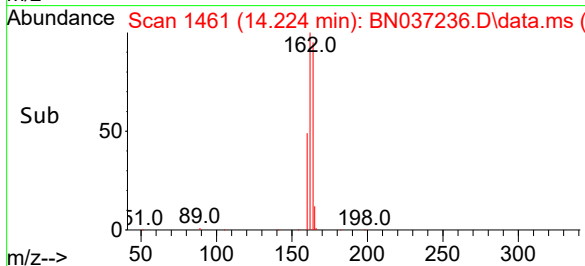
Instrument :
BNA_N
ClientSampleId :
PB168391BS



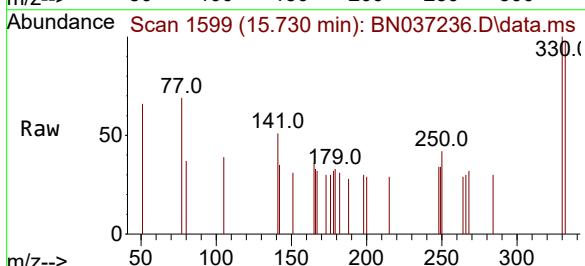
Tgt Ion:164 Resp: 1759
Ion Ratio Lower Upper
164 100
162 105.4 86.7 130.1
160 53.9 45.8 68.6

Manual Integrations
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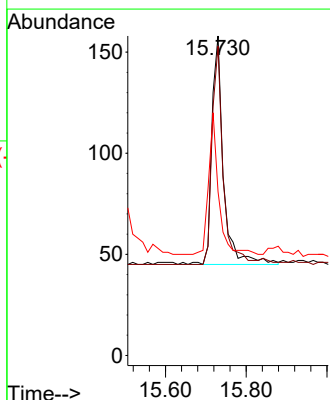
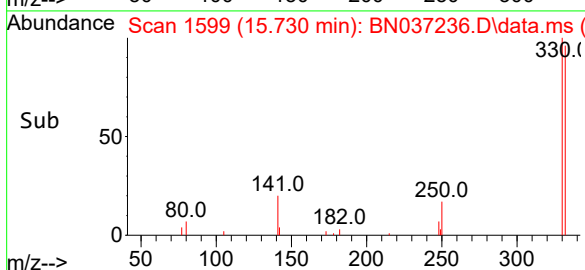
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

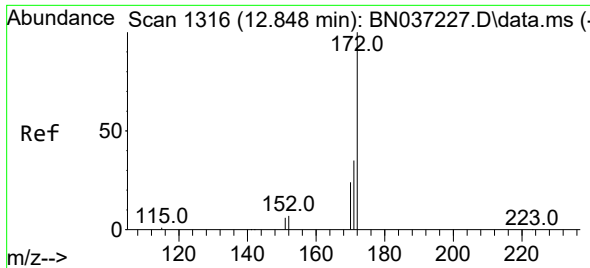


#14
2,4,6-Tribromophenol
Concen: 0.309 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49



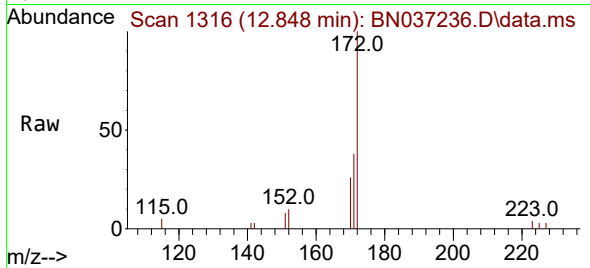
Tgt Ion:330 Resp: 226
Ion Ratio Lower Upper
330 100
332 90.3 74.9 112.3
141 53.1 45.1 67.7





#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

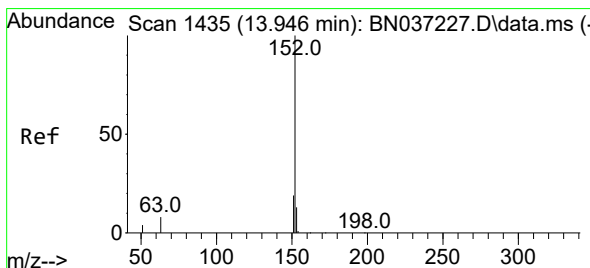
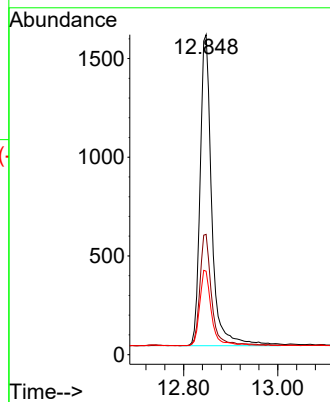
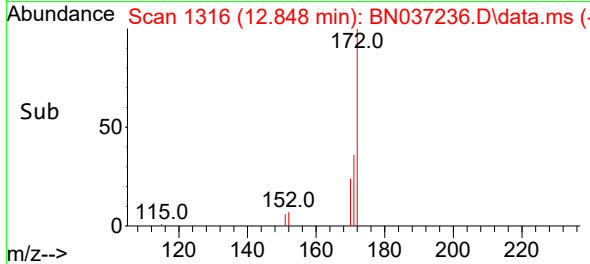
Instrument :
BNA_N
ClientSampleId :
PB168391BS



Tgt Ion:172 Resp: 2730
Ion Ratio Lower Upper
172 100
171 37.6 29.8 44.8
170 26.1 21.1 31.7

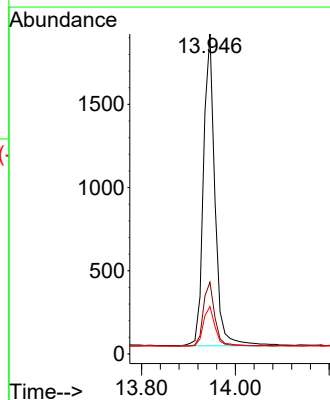
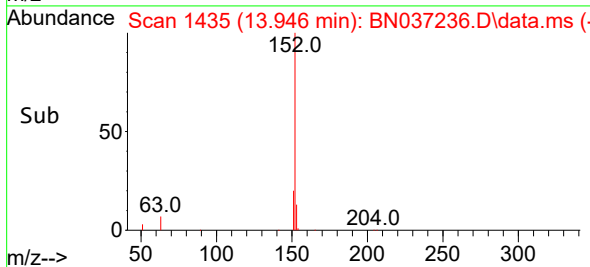
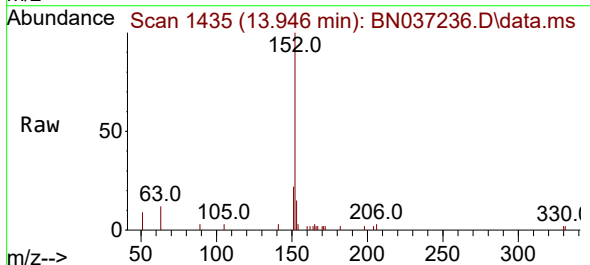
Manual Integrations
APPROVED

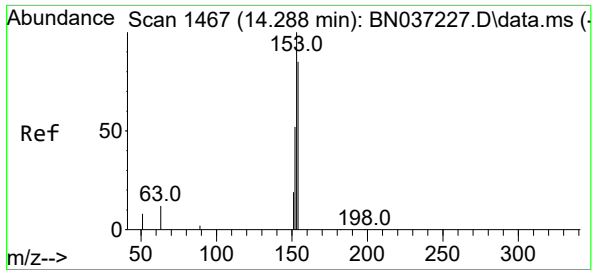
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

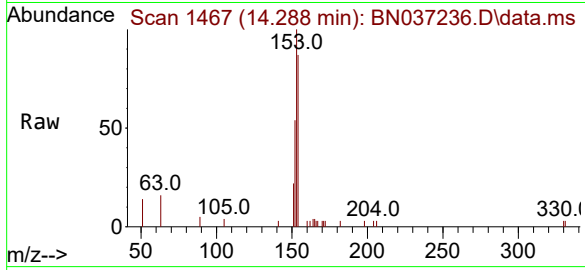
Tgt Ion:152 Resp: 3185
Ion Ratio Lower Upper
152 100
151 20.7 15.7 23.5
153 13.2 10.7 16.1





#17
Acenaphthene
Concen: 0.343 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

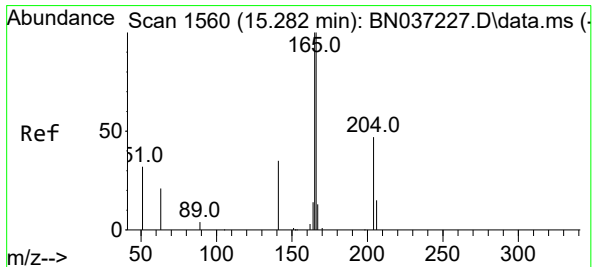
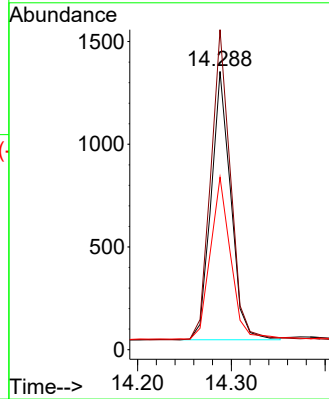
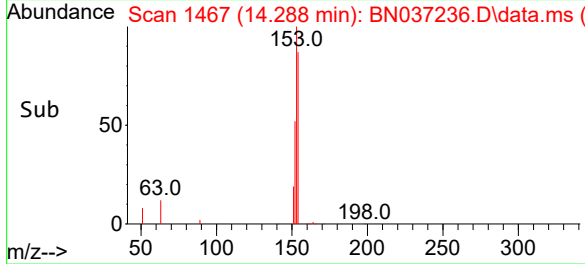
Instrument :
BNA_N
ClientSampleId :
PB168391BS



Tgt Ion:154 Resp: 1900
Ion Ratio Lower Upper
154 100
153 116.8 94.6 141.8
152 62.2 49.6 74.4

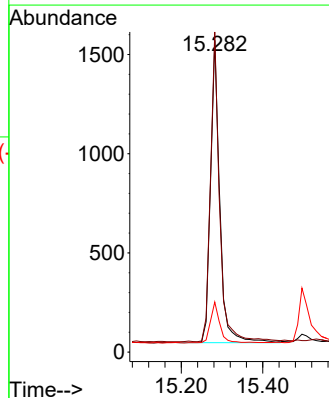
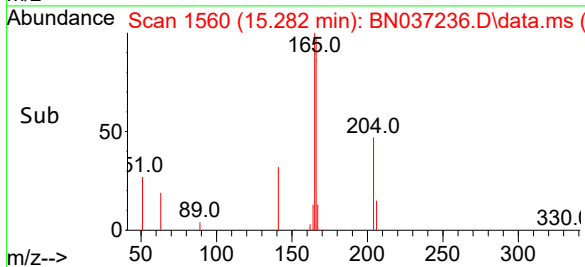
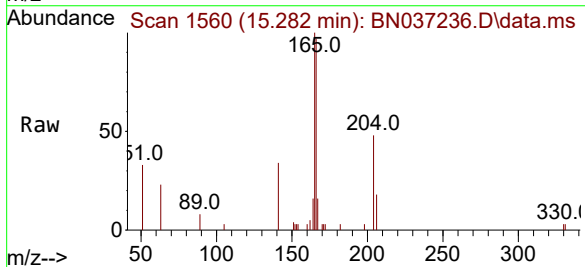
Manual Integrations
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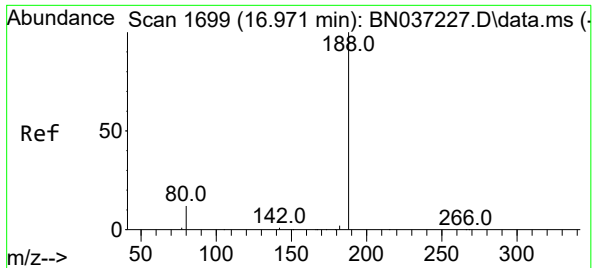
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18
Fluorene
Concen: 0.337 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:166 Resp: 2411
Ion Ratio Lower Upper
166 100
165 100.3 79.8 119.6
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS

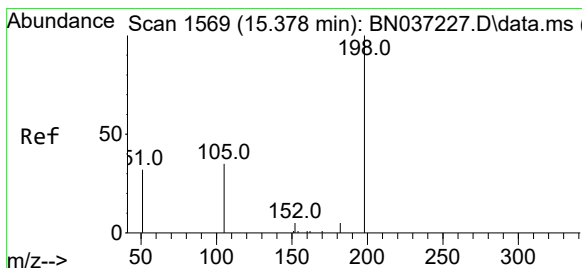
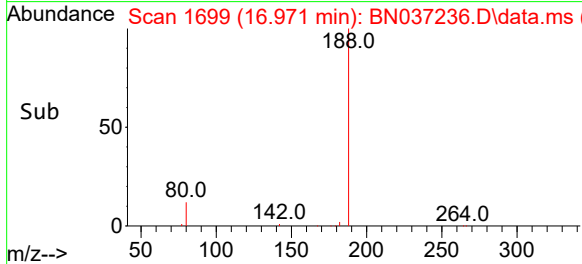
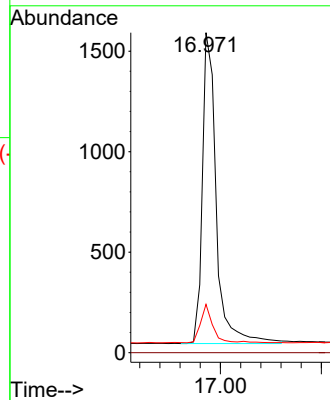
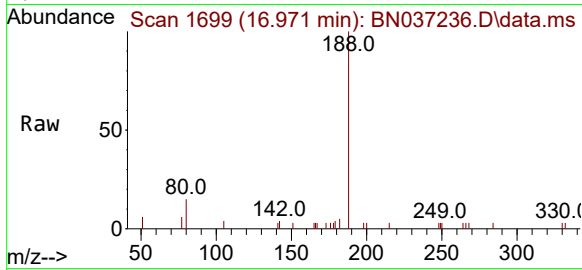
Tgt Ion:	188	Resp:	295
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	15.1	12.2	18.4

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.399 ng

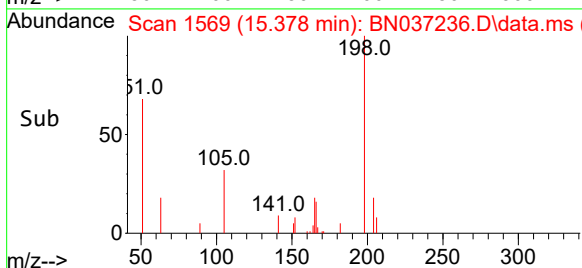
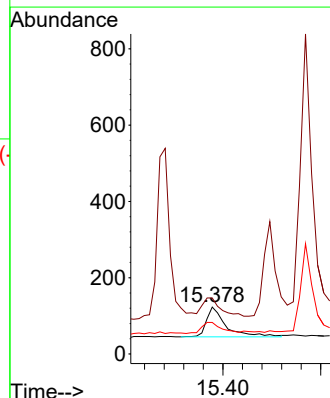
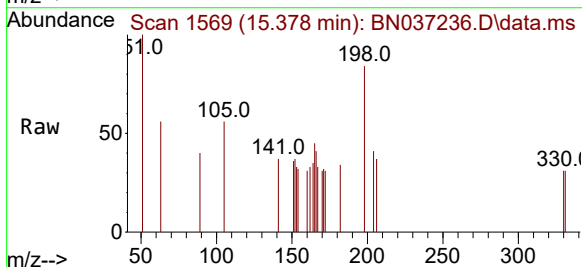
RT: 15.378 min Scan# 1569

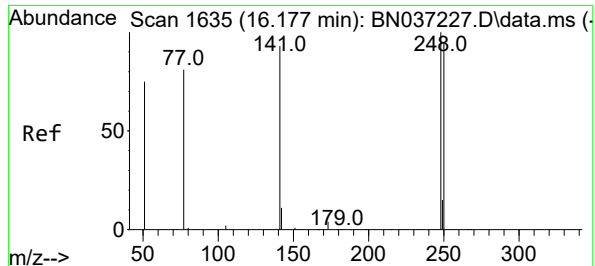
Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Tgt Ion:	198	Resp:	219
Ion Ratio	Lower	Upper	
198	100		
51	119.5	111.2	166.8
105	67.5	54.0	81.0





#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

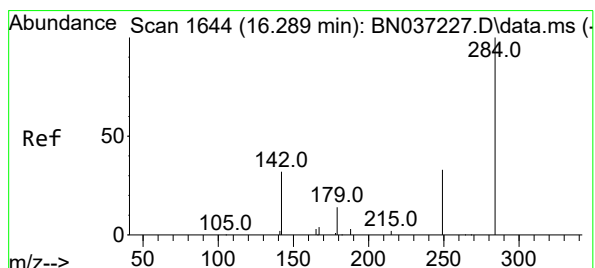
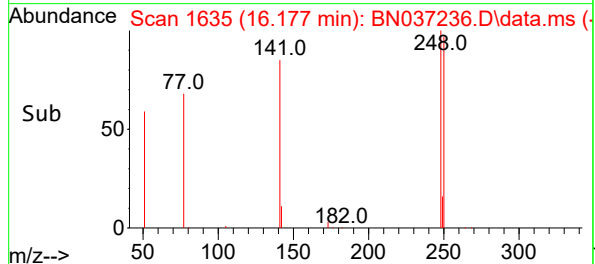
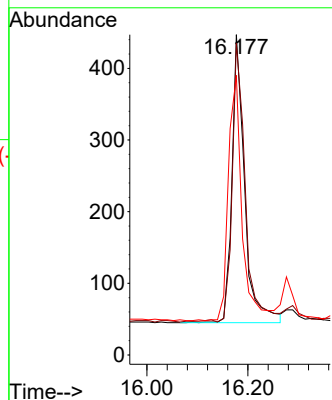
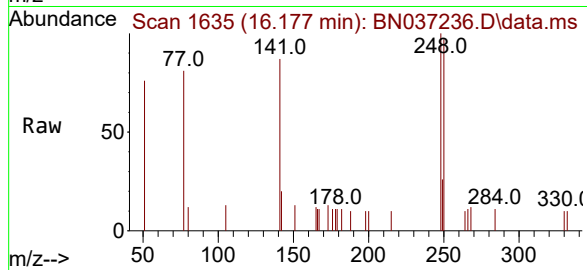
ClientSampleId :

PB168391BS

Tgt Ion:248 Resp: 702
Ion Ratio Lower Upper
248 100
250 97.3 76.8 115.2
141 87.2 75.6 113.4

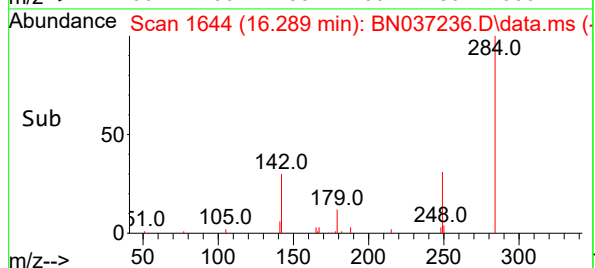
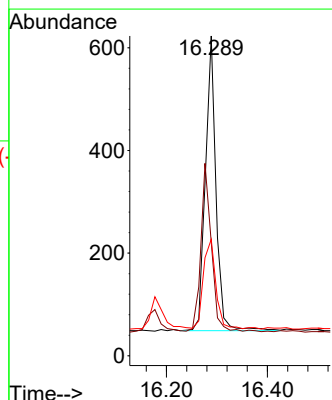
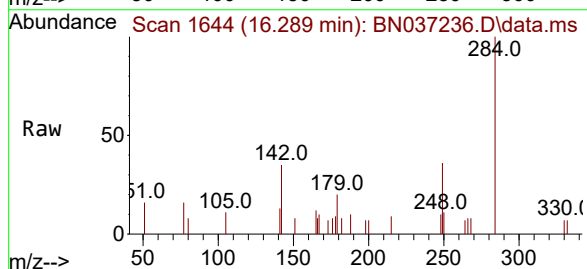
Manual Integrations
APPROVED

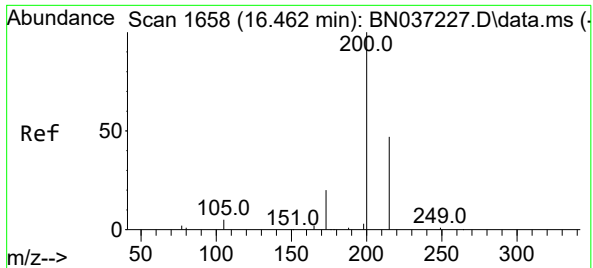
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

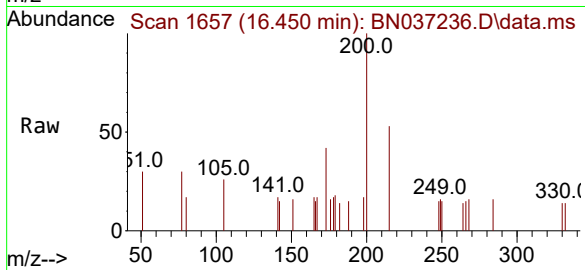
Tgt Ion:284 Resp: 839
Ion Ratio Lower Upper
284 100
142 57.3 43.8 65.6
249 35.3 28.4 42.6





#23
Atrazine
Concen: 0.371 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.012 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

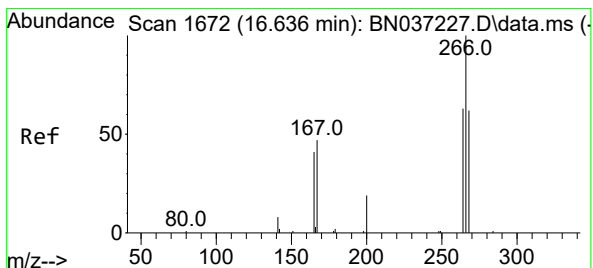
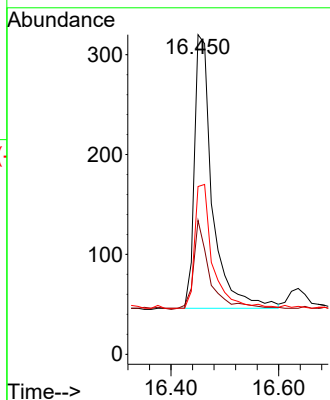
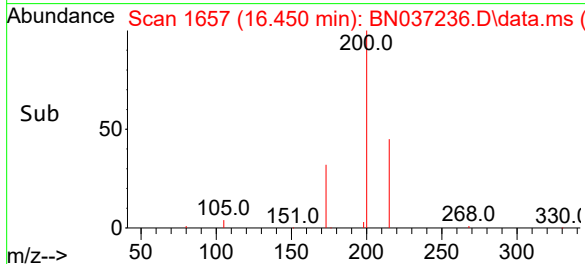
Instrument :
BNA_N
ClientSampleId :
PB168391BS



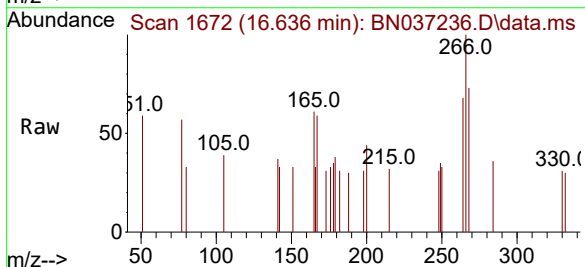
Tgt Ion:200 Resp: 638
Ion Ratio Lower Upper
200 100
173 41.9 25.1 37.7
215 52.5 43.7 65.5

Manual Integrations
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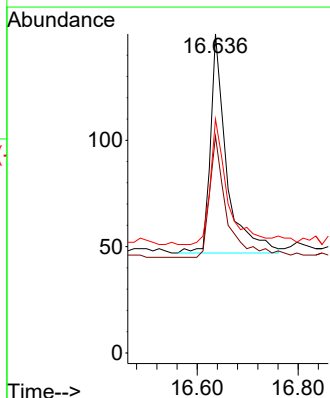
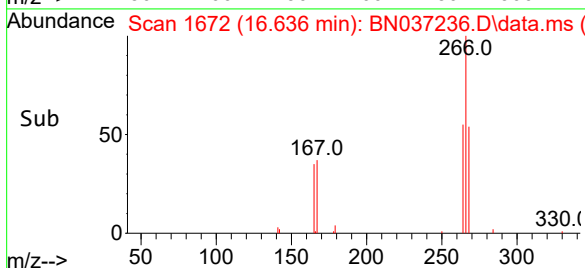
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

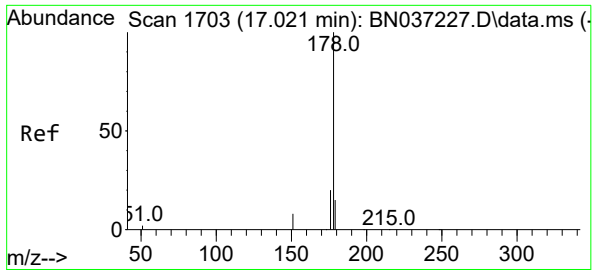


#24
Pentachlorophenol
Concen: 0.209 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49



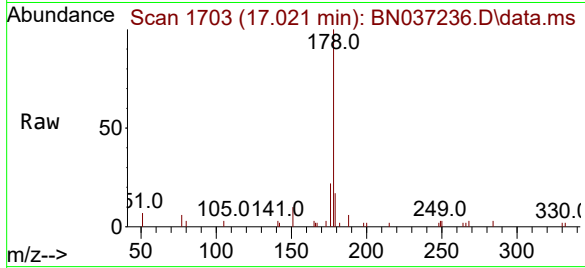
Tgt Ion:266 Resp: 229
Ion Ratio Lower Upper
266 100
264 59.0 49.2 73.8
268 61.1 53.4 80.2





#25
Phenanthrene
Concen: 0.362 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

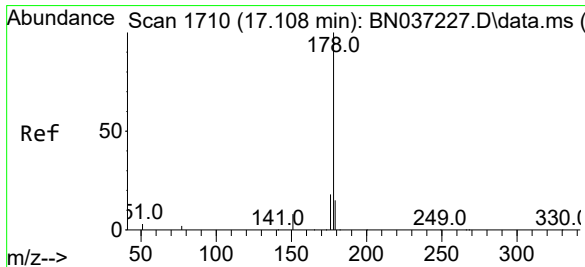
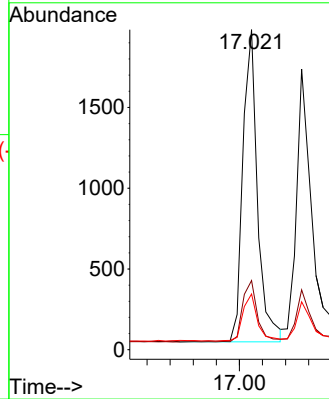
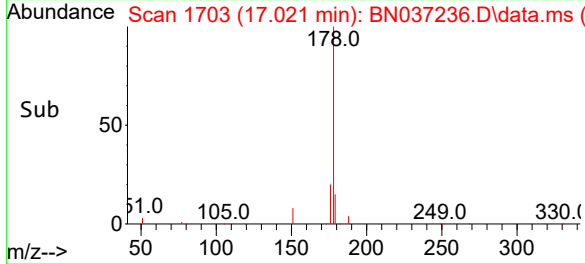
Instrument :
BNA_N
ClientSampleId :
PB168391BS



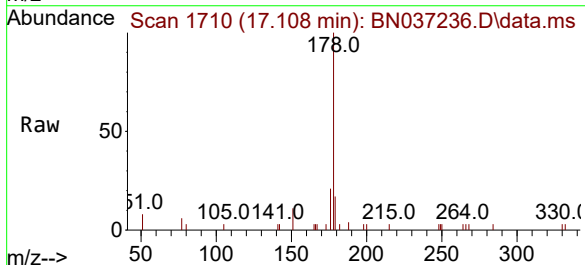
Tgt Ion:178 Resp: 339
Ion Ratio Lower Upper
178 100
176 19.8 16.3 24.5
179 15.1 12.6 18.8

Manual Integrations
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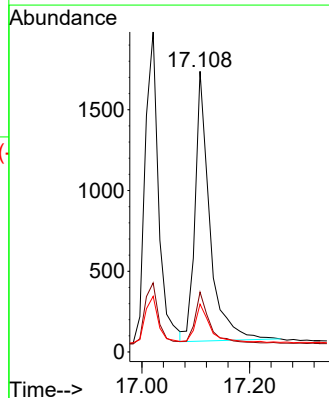
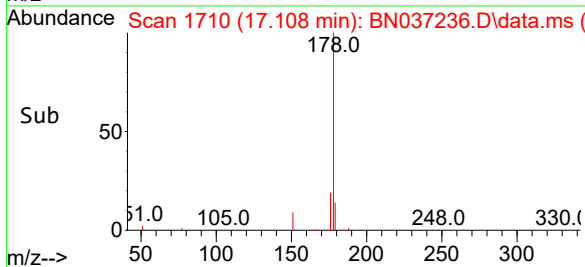
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

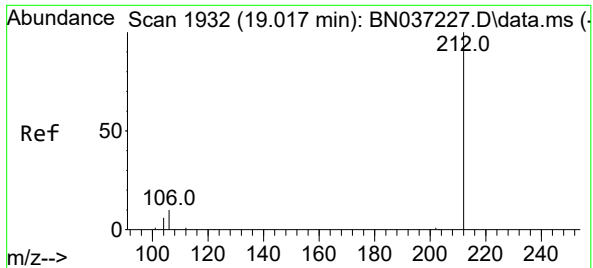


#26
Anthracene
Concen: 0.367 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49



Tgt Ion:178 Resp: 3155
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.1 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.339 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

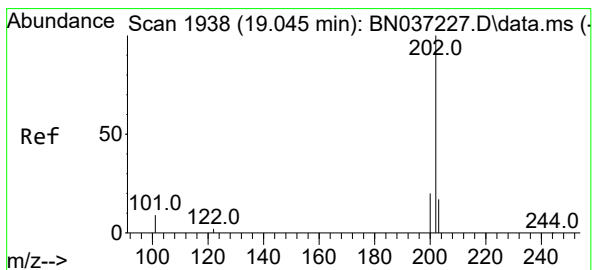
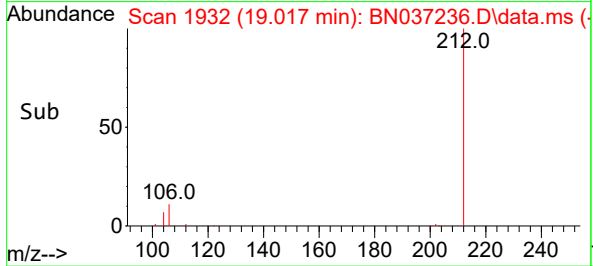
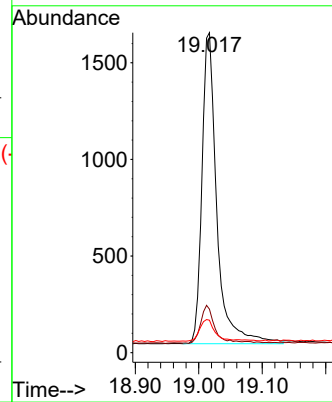
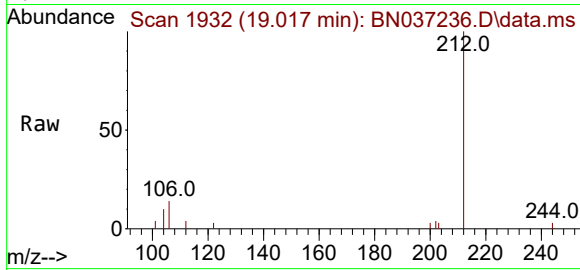
PB168391BS

Tgt Ion:	212	Resp:	262
Ion Ratio	Lower	Upper	
212	100		
106	11.1	9.3	13.9
104	7.0	5.7	8.5

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#28

Fluoranthene

Concen: 0.334 ng

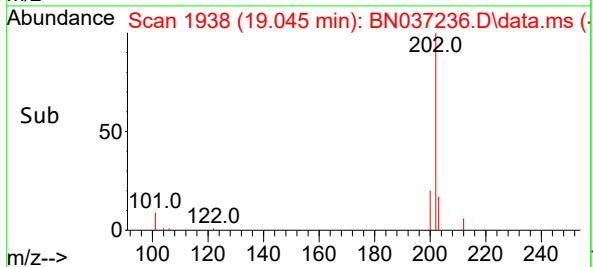
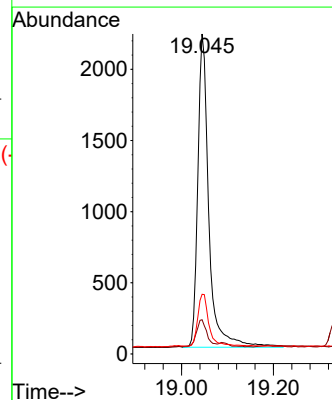
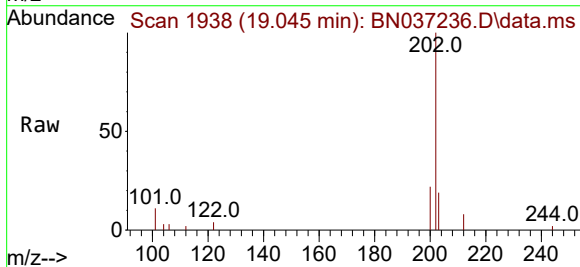
RT: 19.045 min Scan# 1938

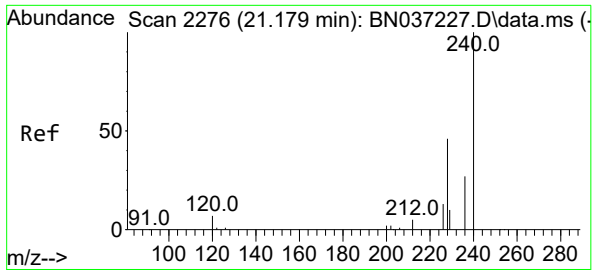
Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Tgt Ion:	202	Resp:	3664
Ion Ratio	Lower	Upper	
202	100		
101	8.8	7.1	10.7
203	16.8	13.0	19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037236.D

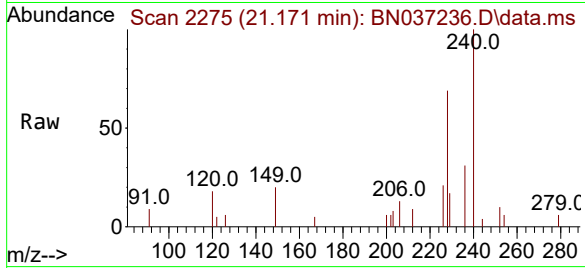
Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS



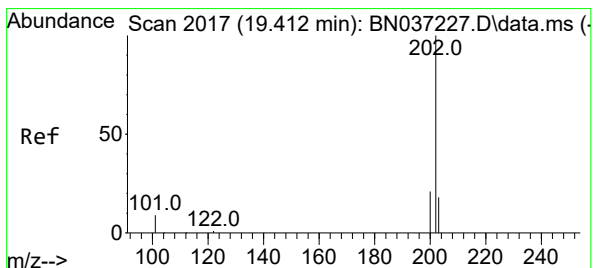
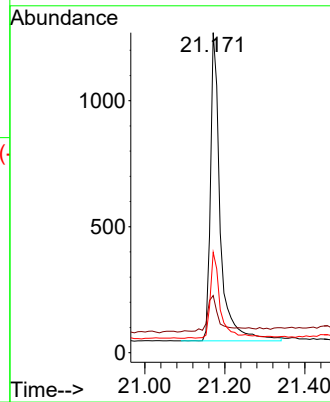
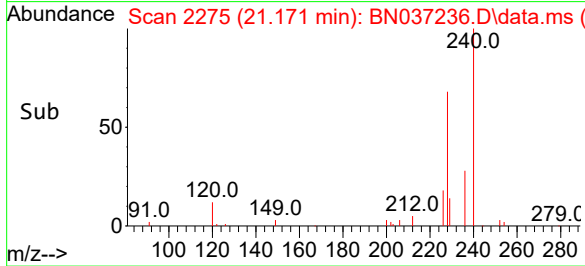
Tgt Ion:	240	Resp:	2090
Ion Ratio	Lower	Upper	
240	100		
120	17.9	11.3	16.9
236	31.3	24.4	36.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#30

Pyrene

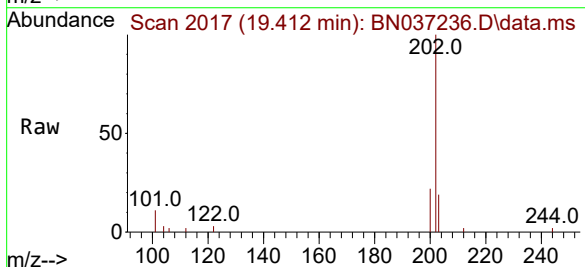
Concen: 0.382 ng

RT: 19.412 min Scan# 2017

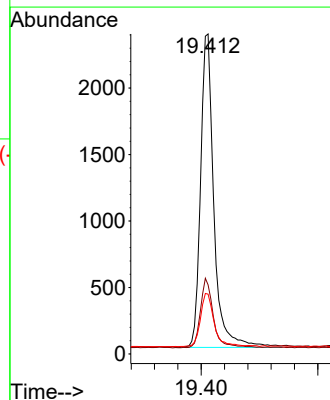
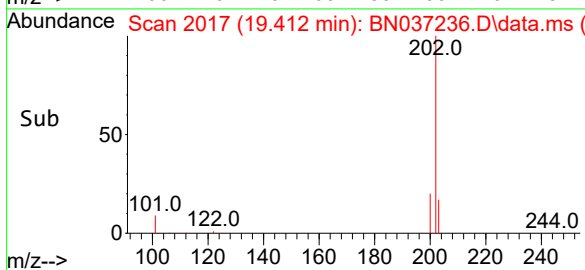
Delta R.T. 0.000 min

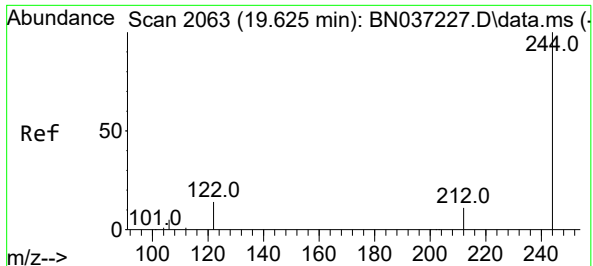
Lab File: BN037236.D

Acq: 13 Jun 2025 20:49



Tgt Ion:	202	Resp:	3754
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.2	25.8
203	17.5	14.3	21.5





#31

Terphenyl-d14

Concen: 0.371 ng

RT: 19.625 min Scan# 2063

Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

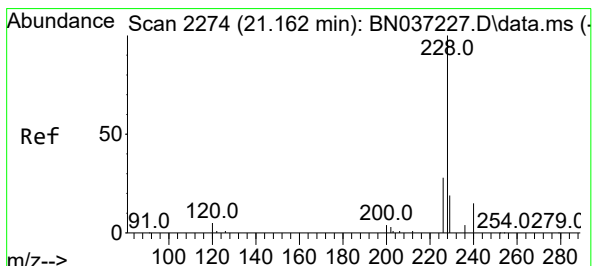
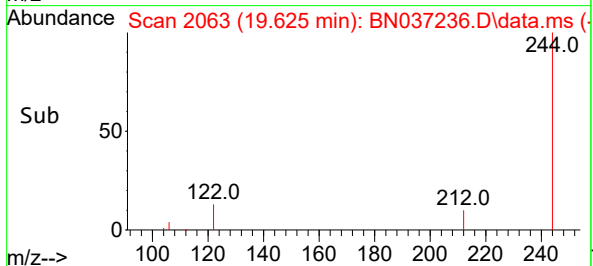
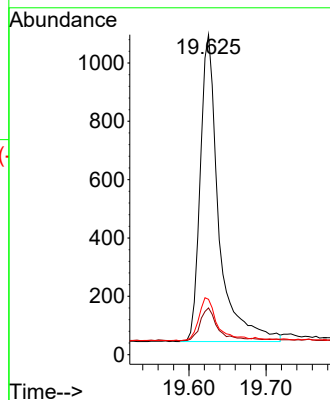
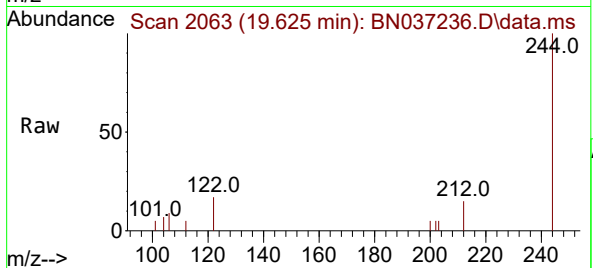
PB168391BS

Tgt Ion:	244	Resp:	175
Ion	Ratio	Lower	Upper
244	100		
212	14.6	12.2	18.2
122	17.3	14.3	21.5

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32

Benzo(a)anthracene

Concen: 0.378 ng

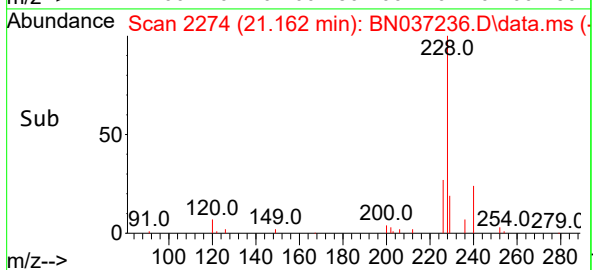
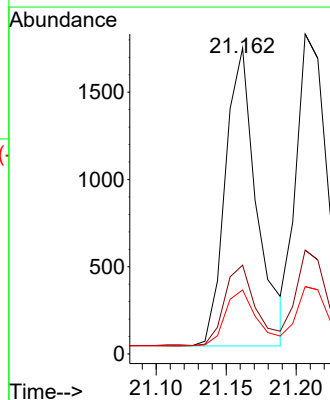
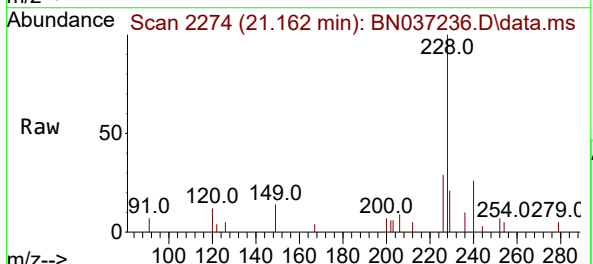
RT: 21.162 min Scan# 2274

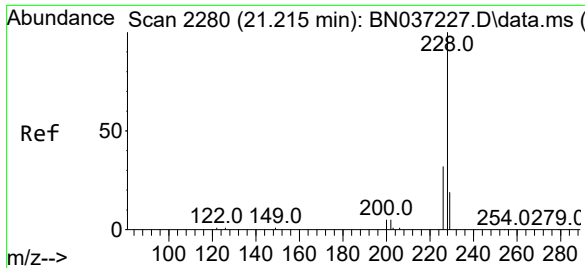
Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

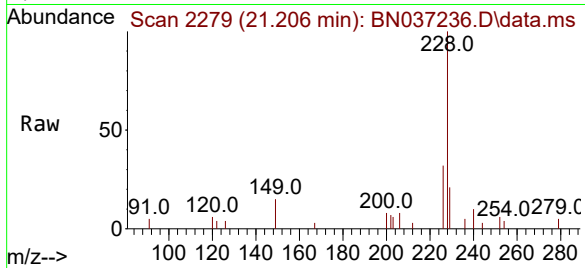
Tgt Ion:	228	Resp:	2669
Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.8	35.8
229	20.9	17.0	25.4





#33
Chrysene
Concen: 0.369 ng
RT: 21.206 min Scan# 21206
Delta R.T. -0.009 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

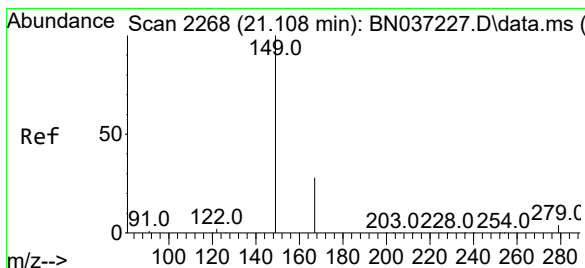
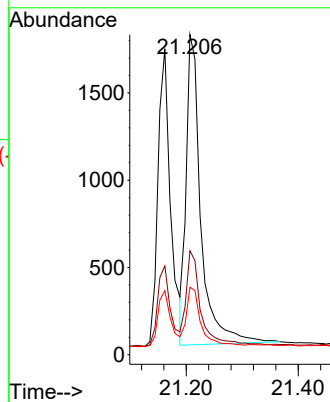
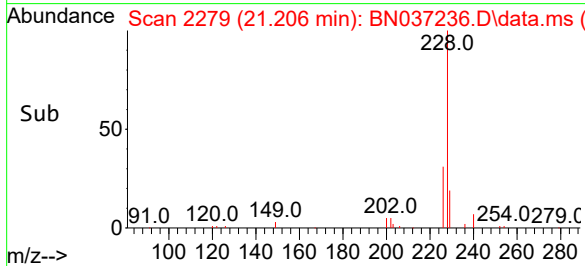
Instrument :
BNA_N
ClientSampleId :
PB168391BS



Tgt Ion: 228 Resp: 3248
Ion Ratio Lower Upper
228 100
226 32.4 25.8 38.6
229 21.0 17.0 25.4

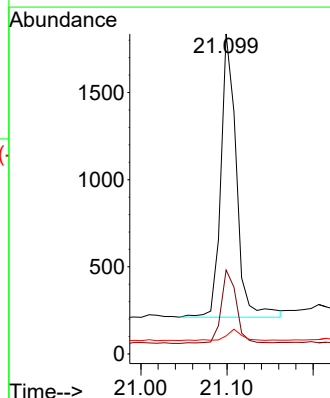
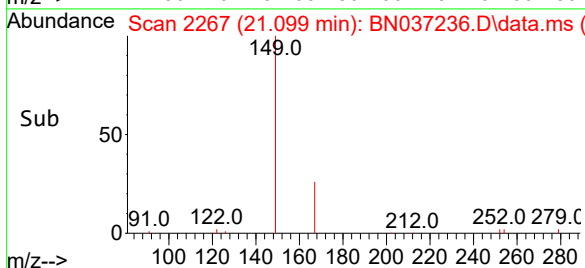
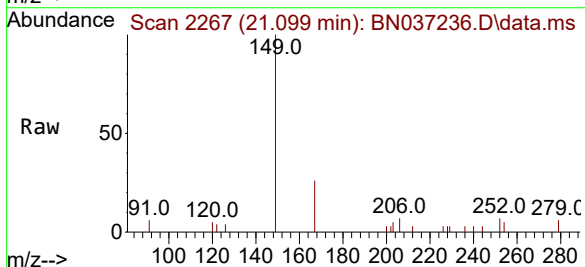
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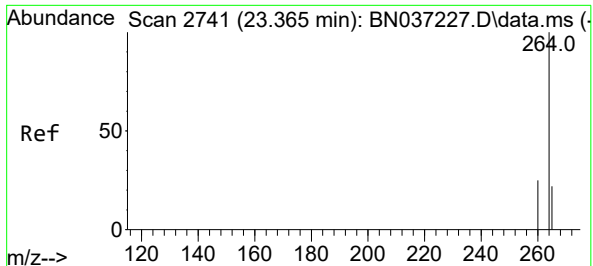
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

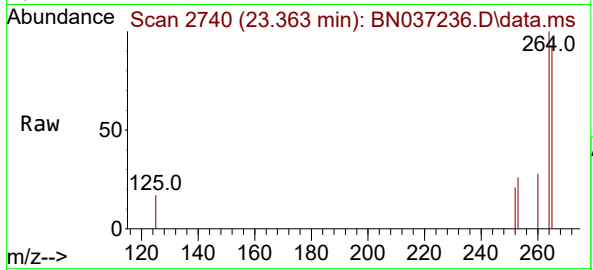
Tgt Ion: 149 Resp: 2029
Ion Ratio Lower Upper
149 100
167 25.2 21.3 31.9
279 3.9 3.3 4.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

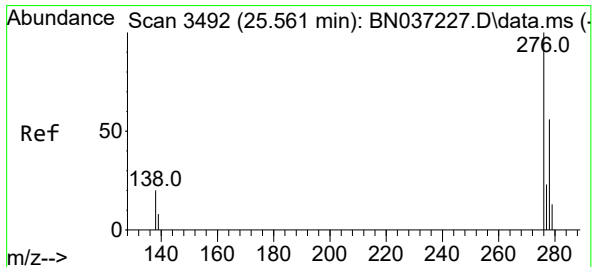
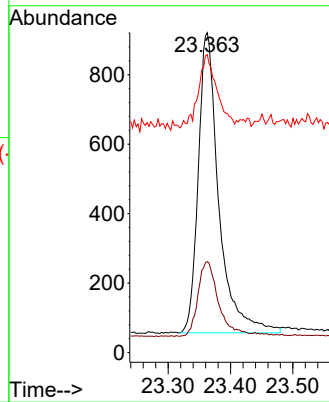
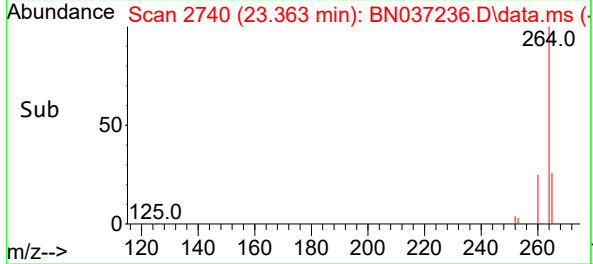
Instrument :
BNA_N
ClientSampleId :
PB168391BS



Tgt Ion:264 Resp: 1978
Ion Ratio Lower Upper
264 100
260 28.4 22.8 34.2
265 93.2 66.4 99.6

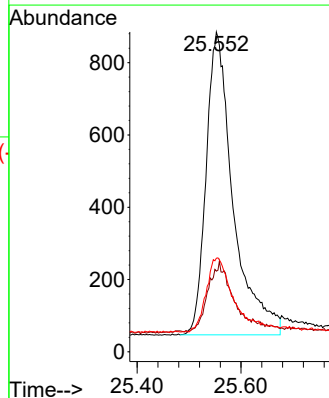
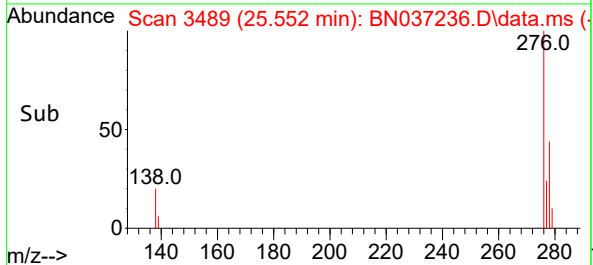
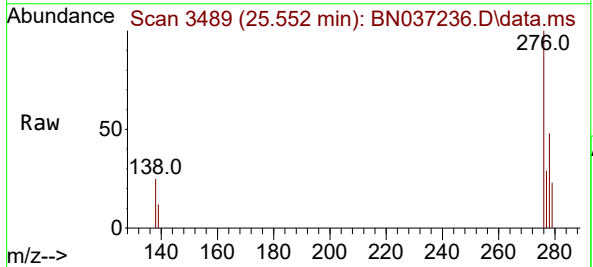
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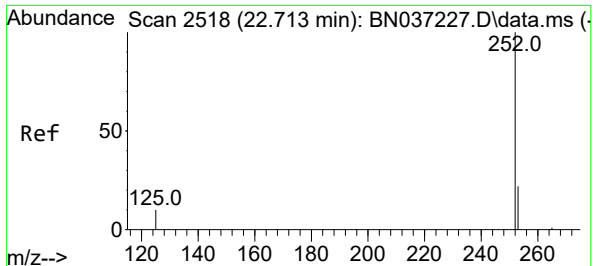
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.380 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:276 Resp: 3030
Ion Ratio Lower Upper
276 100
138 20.2 16.8 25.2
277 24.6 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.352 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037236.D

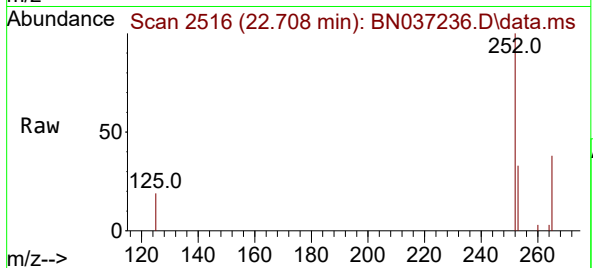
Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS



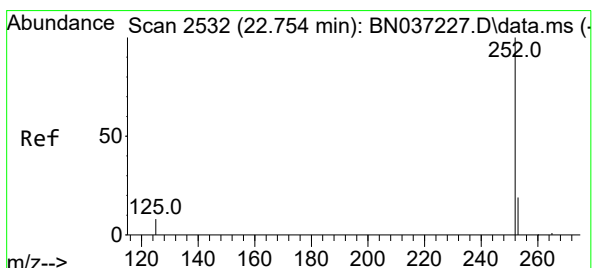
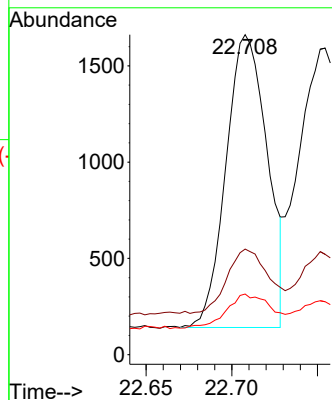
Tgt Ion:	252	Resp:	2540
Ion Ratio	Lower	Upper	
252	100		
253	33.0	24.9	37.3
125	19.0	12.9	19.3

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

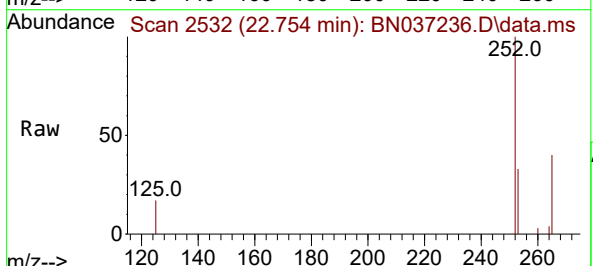
Concen: 0.375 ng

RT: 22.754 min Scan# 2532

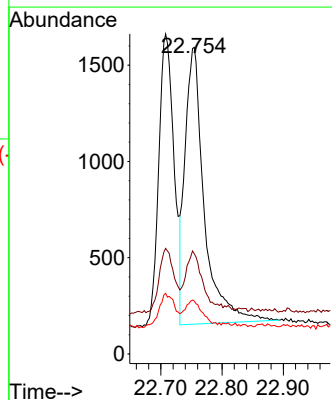
Delta R.T. 0.000 min

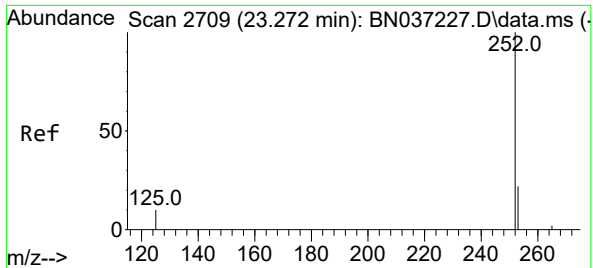
Lab File: BN037236.D

Acq: 13 Jun 2025 20:49



Tgt Ion:	252	Resp:	3130
Ion Ratio	Lower	Upper	
252	100		
253	32.7	24.6	37.0
125	17.3	13.4	20.2





#39

Benzo(a)pyrene

Concen: 0.390 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

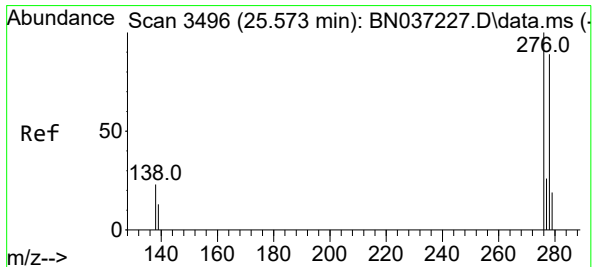
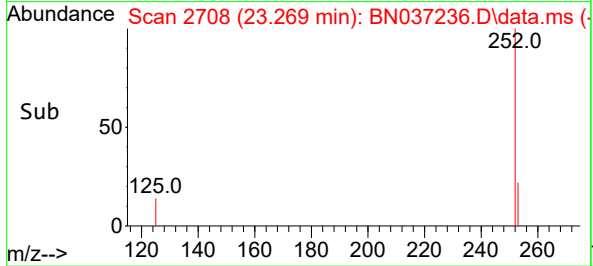
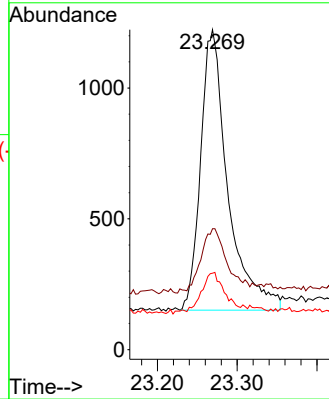
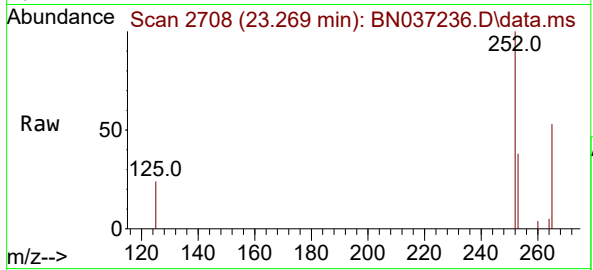
PB168391BS

Tgt Ion:	252	Resp:	253
Ion Ratio	Lower	Upper	
252	100		
253	37.8	29.4	44.2
125	23.9	16.2	24.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.385 ng

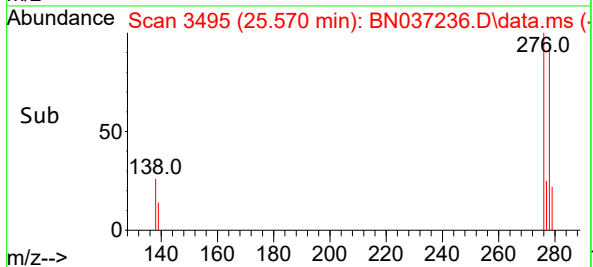
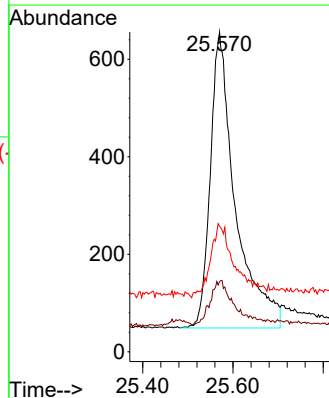
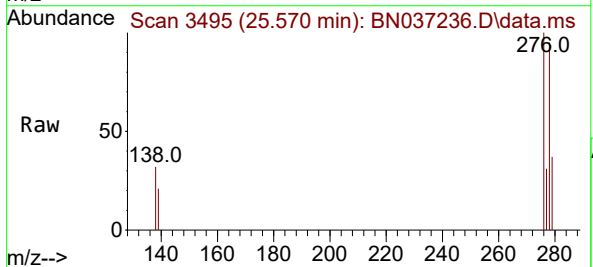
RT: 25.570 min Scan# 3495

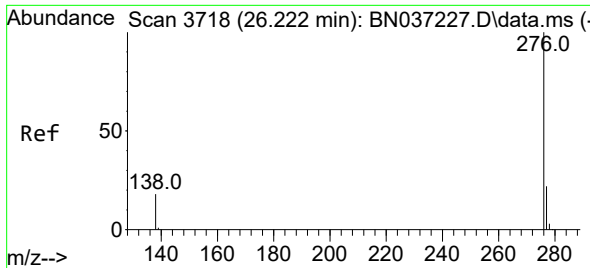
Delta R.T. -0.003 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Tgt Ion:	278	Resp:	2336
Ion Ratio	Lower	Upper	
278	100		
139	22.0	17.8	26.6
279	39.2	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.355 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037236.D

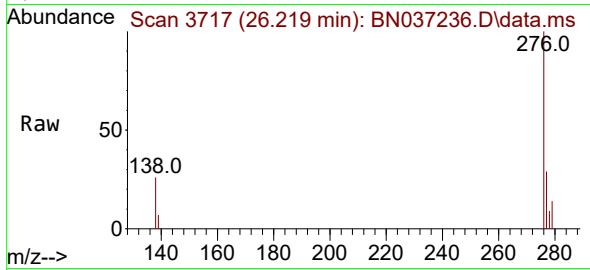
Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS



Tgt Ion: 276 Resp: 2629

Ion Ratio Lower Upper

276 100

277 29.0 22.0 33.0

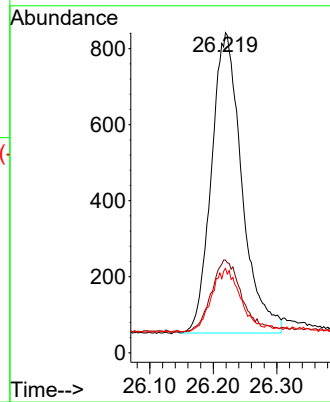
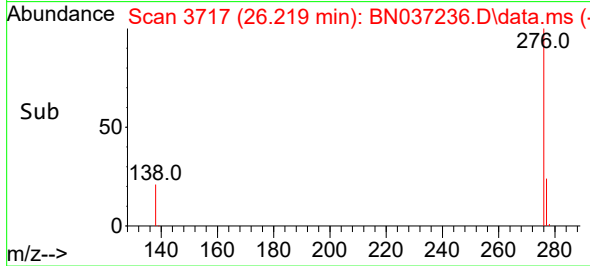
138 26.4 18.4 27.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168391BSD	SDG No.:	Q2263
Lab Sample ID:	PB168391BSD	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
BN037237.D	1	06/10/25 12:20	06/13/25 21:25	PB168391

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.42		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1340	7.575				
1146-65-2	Naphthalene-d8	3200	10.351				
15067-26-2	Acenaphthene-d10	1520	14.224				
1517-22-2	Phenanthrene-d10	2540	16.971				
1719-03-5	Chrysene-d12	1860	21.171				
1520-96-3	Perylene-d12	1820	23.363				

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\BN061325\
 Data File : BN037237.D
 Acq On : 13 Jun 2025 21:25
 Operator : RC/JU
 Sample : PB168391BSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168391BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/16/2025
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 23:00:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1340	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3197	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1517	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2544	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1864	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1823	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1074	0.326	ng	0.00
5) Phenol-d6	6.759	99	1133	0.327	ng	0.00
8) Nitrobenzene-d5	8.728	82	1094	0.346	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	1567m	0.365	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	191	0.303	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2414	0.379	ng	0.00
27) Fluoranthene-d10	19.017	212	2260	0.340	ng	0.00
31) Terphenyl-d14	19.625	244	1545	0.367	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	767	0.417	ng	# 39
3) n-Nitrosodimethylamine	3.415	42	1445	0.345	ng	# 98
6) bis(2-Chloroethyl)ether	7.012	93	1087	0.350	ng	95
9) Naphthalene	10.404	128	3142	0.339	ng	100
10) Hexachlorobutadiene	10.693	225	809	0.359	ng	# 96
12) 2-Methylnaphthalene	12.026	142	1733	0.308	ng	98
16) Acenaphthylene	13.946	152	2835	0.381	ng	98
17) Acenaphthene	14.288	154	1676	0.349	ng	99
18) Fluorene	15.282	166	2139	0.347	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	183	0.391	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	601	0.363	ng	97
22) Hexachlorobenzene	16.289	284	730	0.380	ng	98
23) Atrazine	16.462	200	554	0.375	ng	95
24) Pentachlorophenol	16.636	266	179	0.190	ng	96
25) Phenanthrene	17.021	178	2878	0.357	ng	99
26) Anthracene	17.108	178	2707	0.366	ng	99
28) Fluoranthene	19.045	202	3075	0.326	ng	99
30) Pyrene	19.407	202	3164	0.361	ng	99
32) Benzo(a)anthracene	21.162	228	2335	0.371	ng	100
33) Chrysene	21.206	228	2859	0.365	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	1653	0.353	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.552	276	2941	0.400	ng	99
37) Benzo(b)fluoranthene	22.708	252	2370	0.355	ng	95
38) Benzo(k)fluoranthene	22.752	252	2685	0.349	ng	96
39) Benzo(a)pyrene	23.272	252	2338	0.390	ng	# 93
40) Dibenzo(a,h)anthracene	25.570	278	2093	0.374	ng	98
41) Benzo(g,h,i)perylene	26.216	276	2507	0.368	ng	97

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

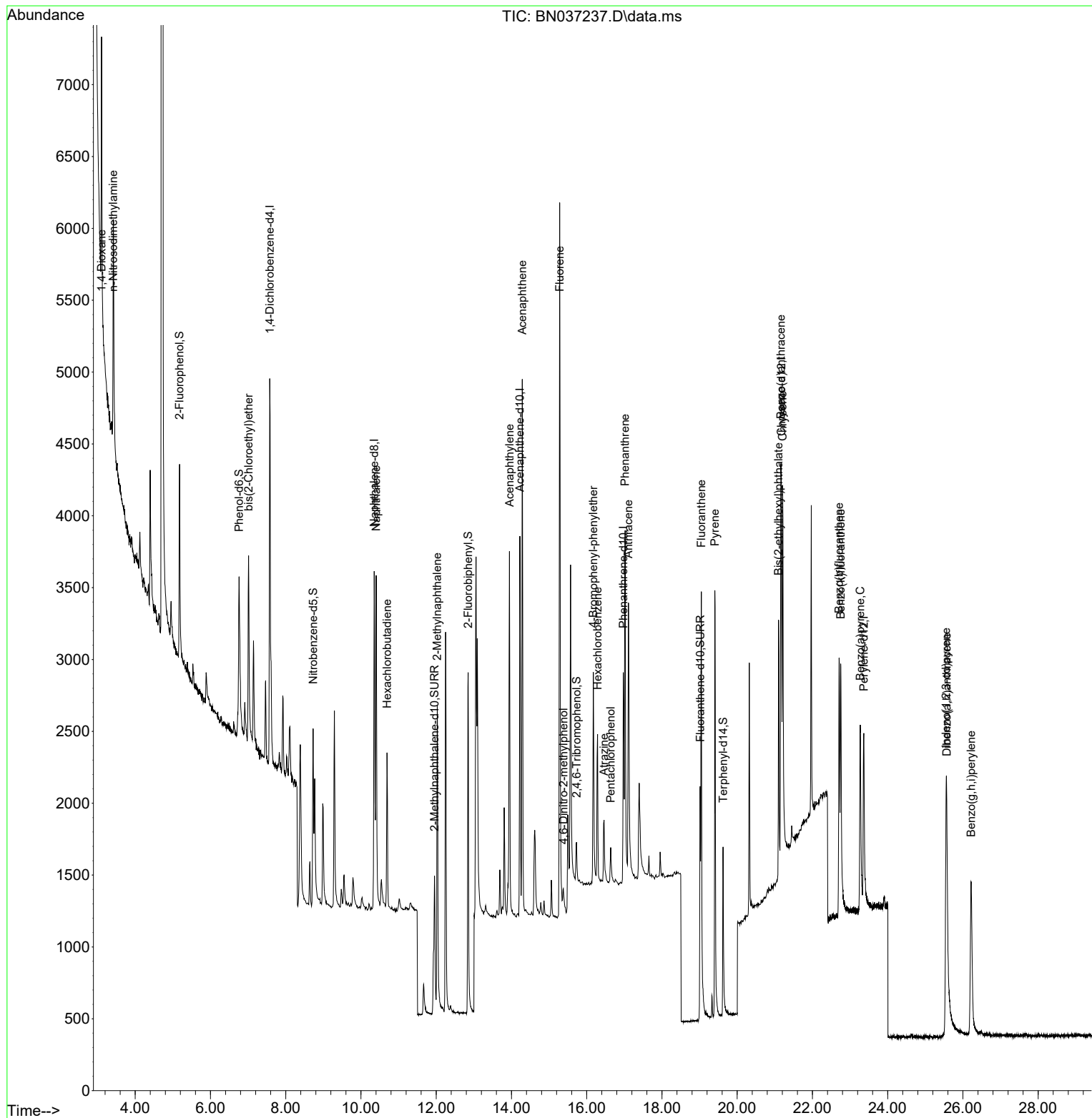
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Data File : BN037237.D
Acq On : 13 Jun 2025 21:25
Operator : RC/JU
Sample : PB168391BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

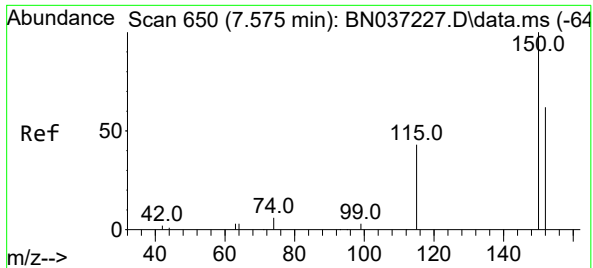
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

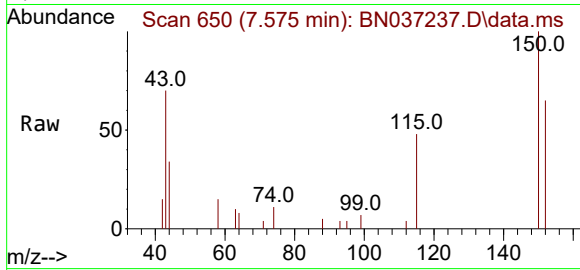
Quant Time: Jun 13 23:00:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

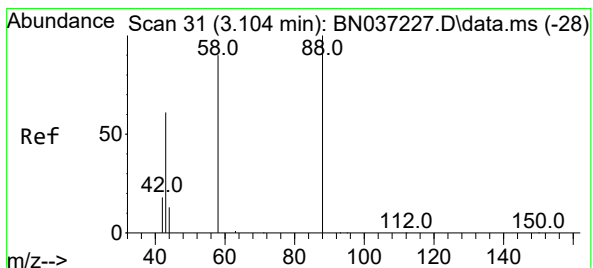
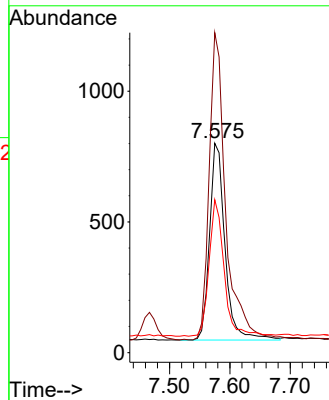
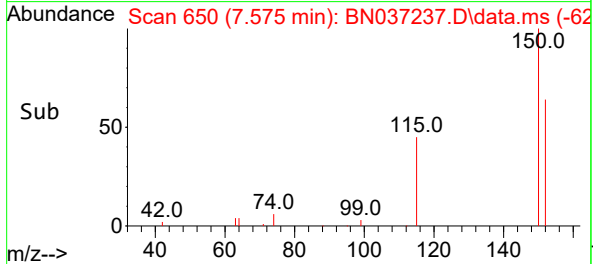
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



Tgt Ion: 152 Resp: 1340
Ion Ratio Lower Upper
152 100
150 152.8 125.2 187.8
115 73.0 58.4 87.6

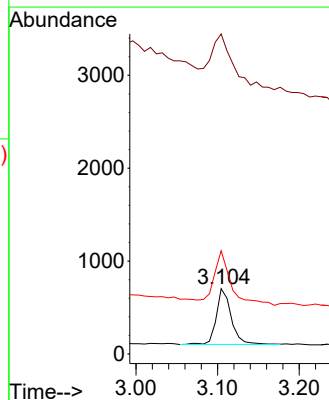
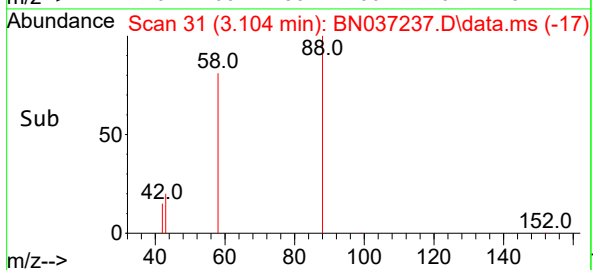
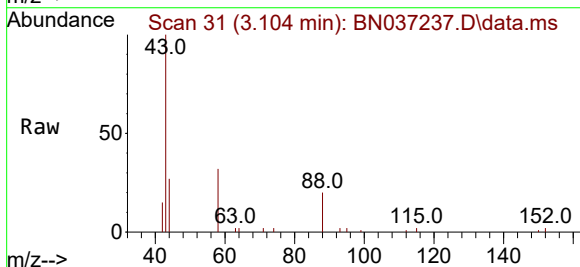
Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

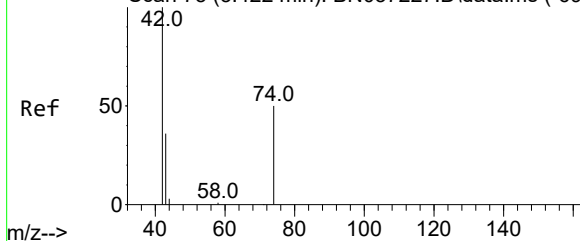


#2
1,4-Dioxane
Concen: 0.417 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion: 88 Resp: 767
Ion Ratio Lower Upper
88 100
43 158.5 52.6 79.0#
58 112.0 73.5 110.3#



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.345 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

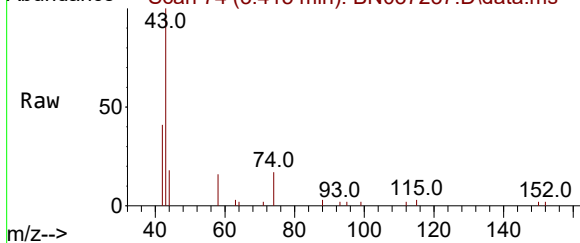
Instrument :

BNA_N

ClientSampleId :

PB168391BSD

Abundance Scan 74 (3.415 min): BN037237.D\data.ms



Tgt Ion:	42	Resp:	144
Ion	Ratio	Lower	Upper
42	100		
74	57.4	44.6	66.8
44	3.4	3.5	5.3

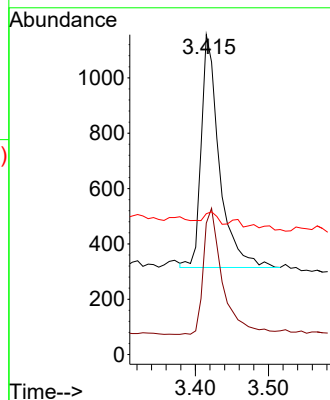
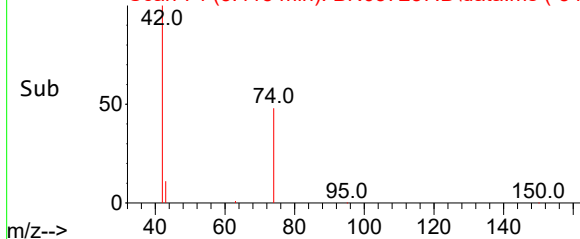
Manual Integrations

APPROVED

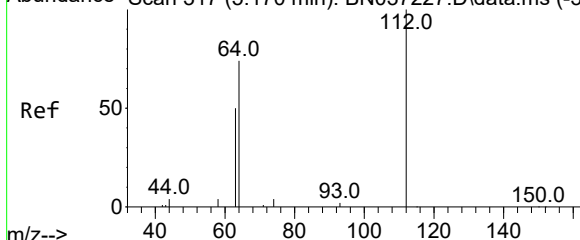
Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Abundance Scan 74 (3.415 min): BN037237.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.326 ng

RT: 5.177 min Scan# 318

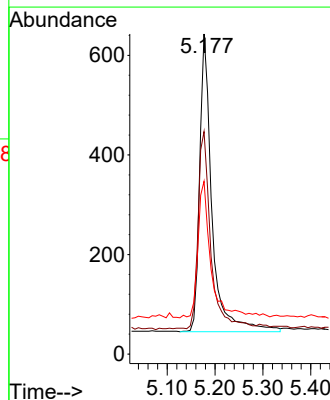
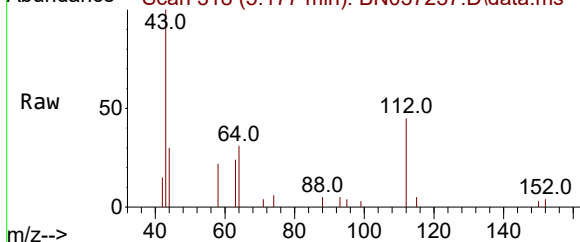
Delta R.T. 0.007 min

Lab File: BN037237.D

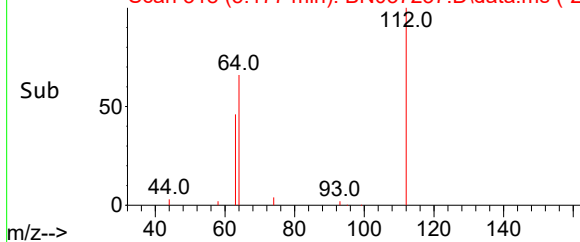
Acq: 13 Jun 2025 21:25

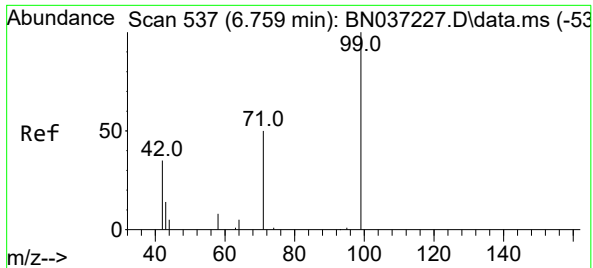
Tgt Ion:	112	Resp:	1074
Ion	Ratio	Lower	Upper
112	100		
64	68.0	57.2	85.8
63	48.6	39.8	59.6

Abundance Scan 318 (5.177 min): BN037237.D\data.ms



Abundance Scan 318 (5.177 min): BN037237.D\data.ms (-28)





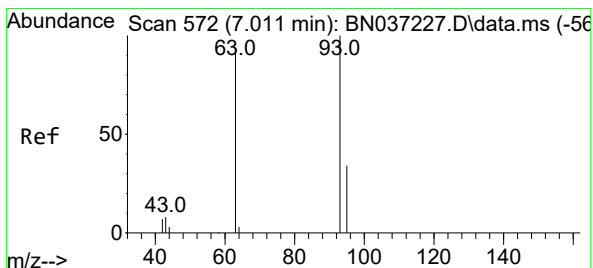
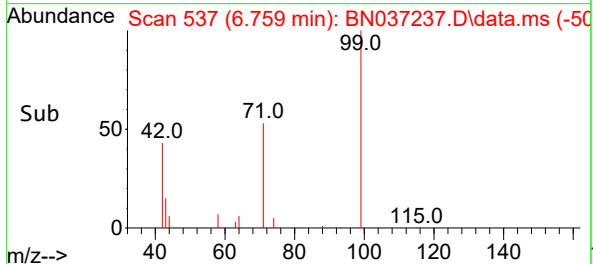
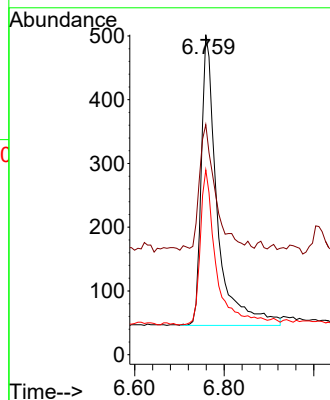
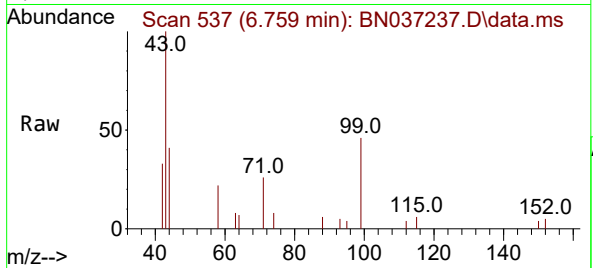
#5
Phenol-d6
Concen: 0.327 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Tgt Ion	Ratio	Lower	Upper
99	100		
42	44.2	36.2	54.4
71	52.5	42.4	63.6

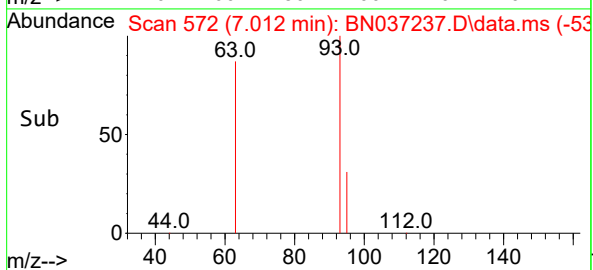
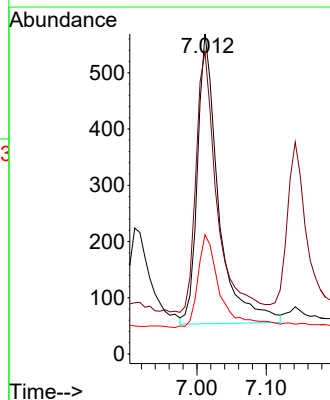
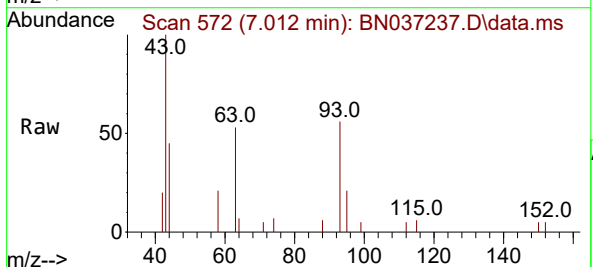
Manual Integrations
APPROVED

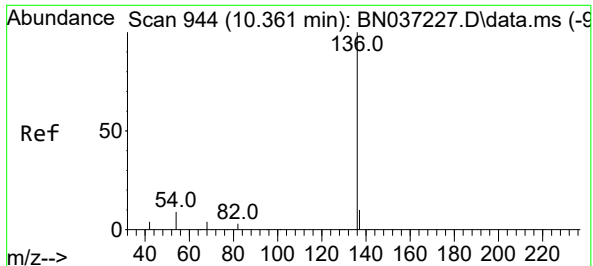
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion	Ratio	Lower	Upper
93	100		
63	87.8	75.2	112.8
95	33.8	28.3	42.5





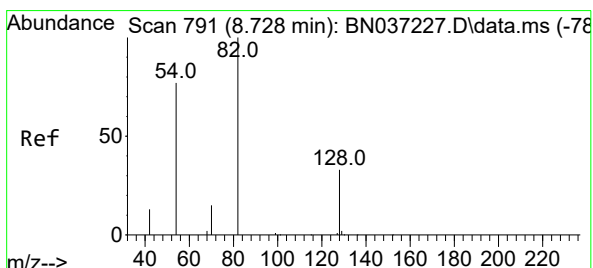
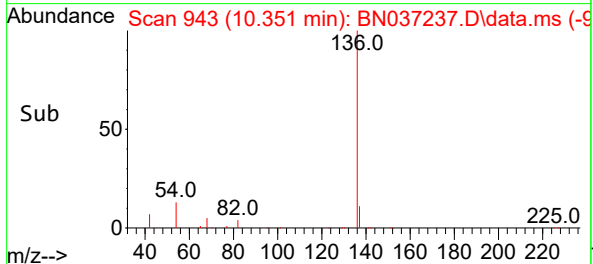
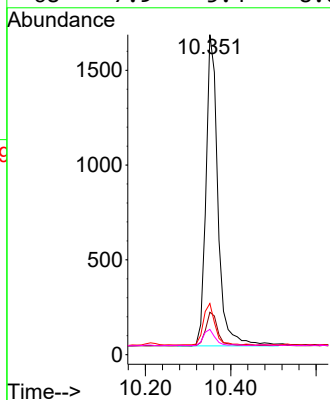
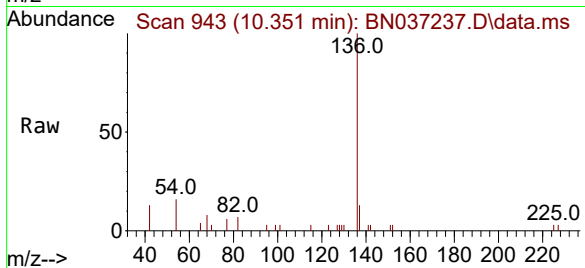
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Tgt Ion: 136 Resp: 319
Ion Ratio Lower Upper
136 100
137 13.2 10.6 15.8
54 16.0 9.2 13.8
68 7.9 5.4 8.0

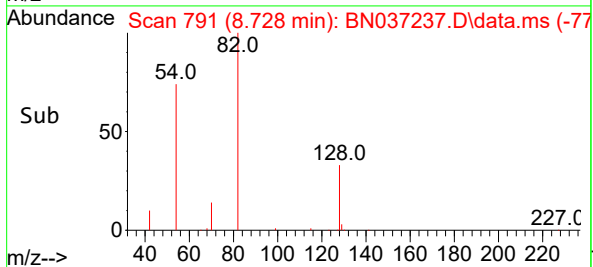
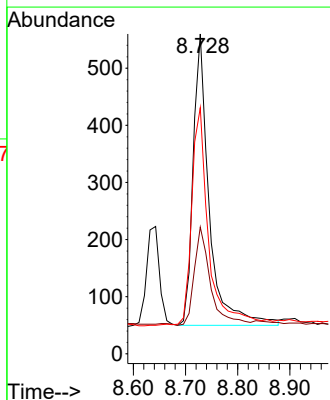
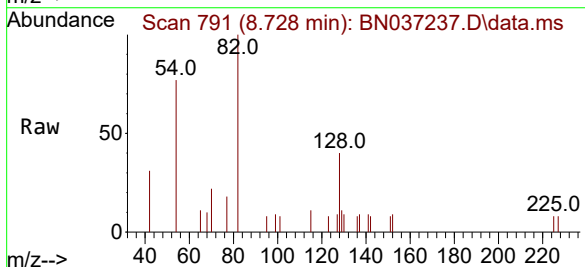
Manual Integrations
APPROVED

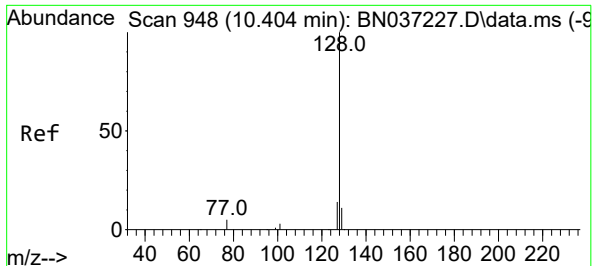
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion: 82 Resp: 1094
Ion Ratio Lower Upper
82 100
128 39.6 31.2 46.8
54 77.0 63.3 94.9





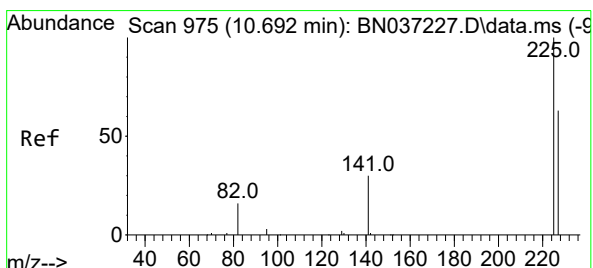
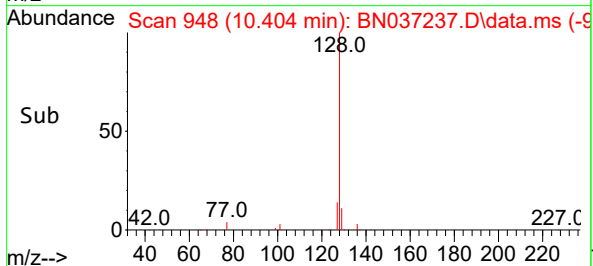
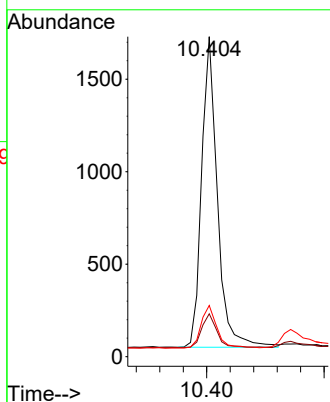
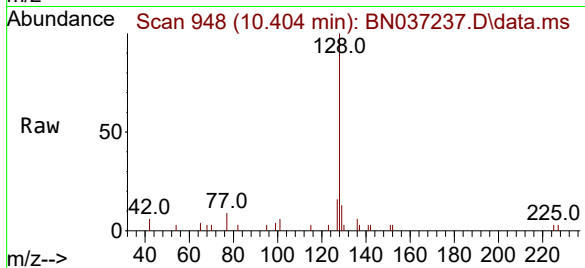
#9
Naphthalene
Concen: 0.339 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.4	10.7	16.1
127	16.0	12.6	19.0

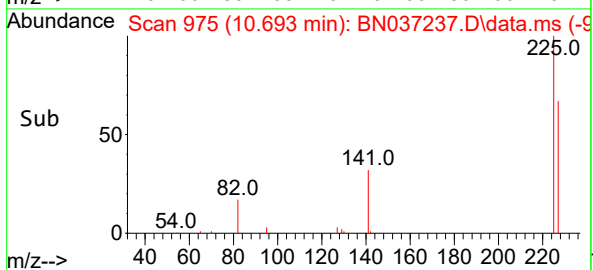
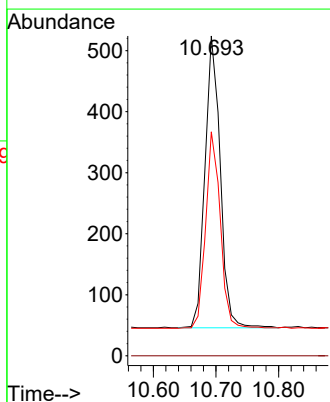
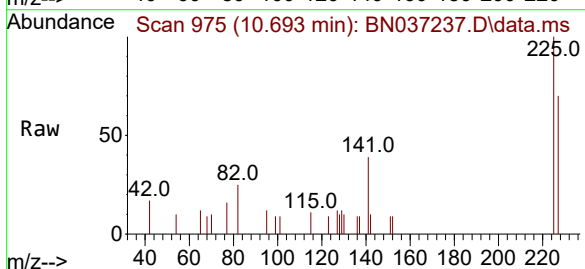
Manual Integrations
APPROVED

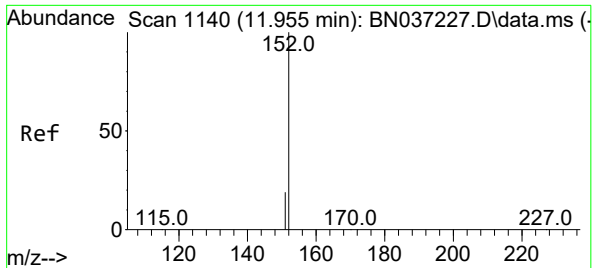
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

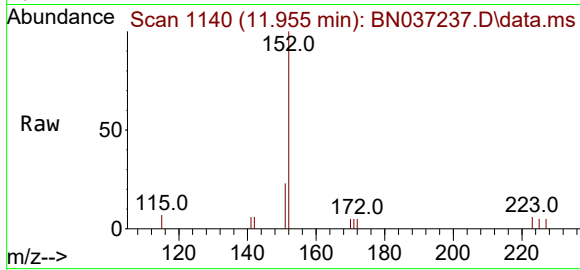
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	49.2	73.8





#11
2-Methylnaphthalene-d10
Concen: 0.365 ng m
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

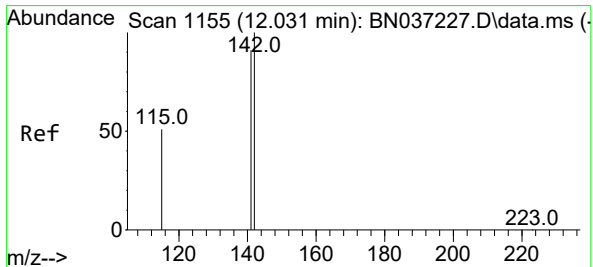
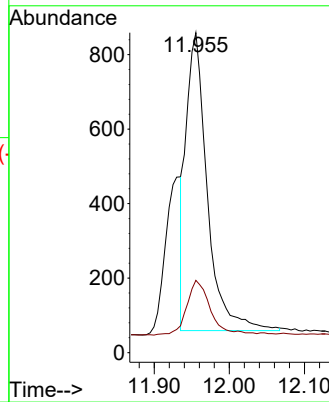
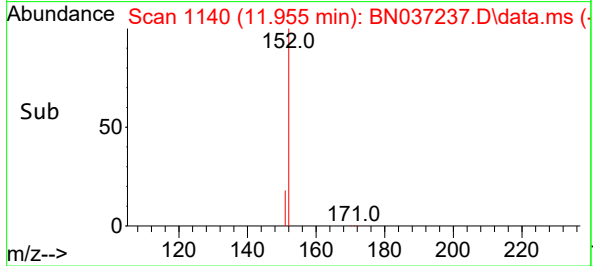
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



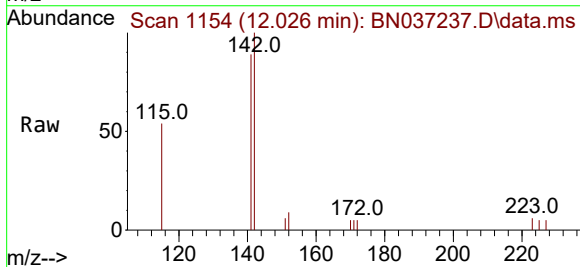
Tgt Ion:152 Resp: 156
Ion Ratio Lower Upper
152 100
151 20.7 17.9 26.9

Manual Integrations
APPROVED

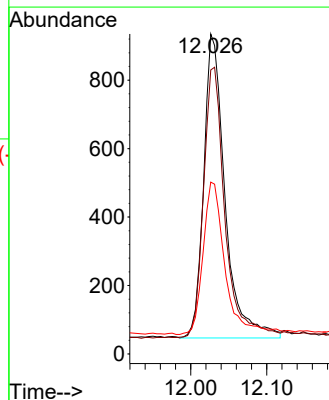
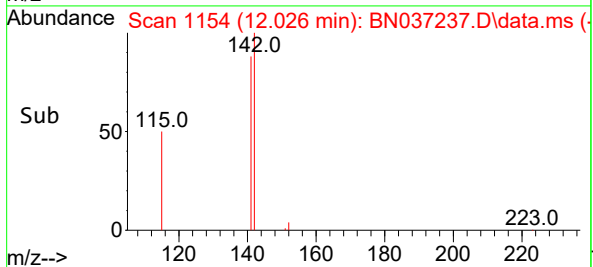
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

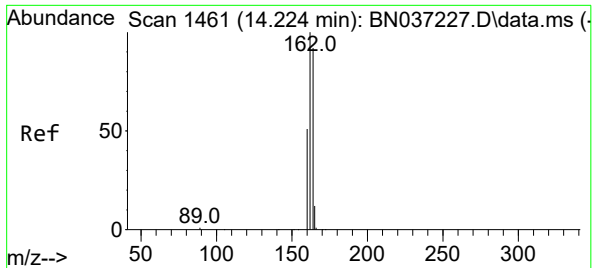


#12
2-Methylnaphthalene
Concen: 0.308 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25



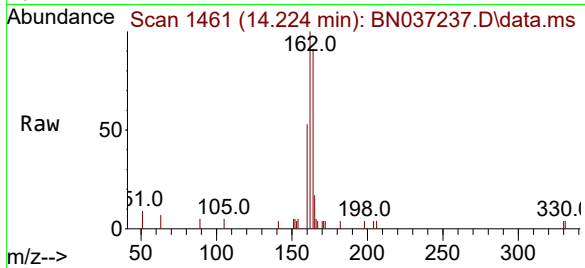
Tgt Ion:142 Resp: 1733
Ion Ratio Lower Upper
142 100
141 88.8 73.0 109.6
115 53.7 43.3 64.9





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

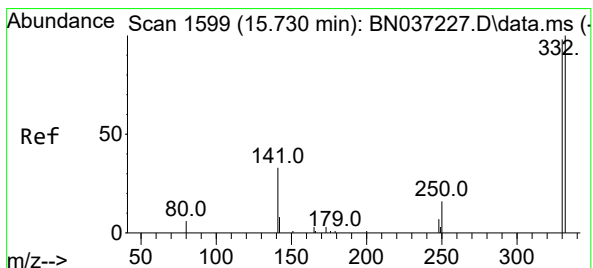
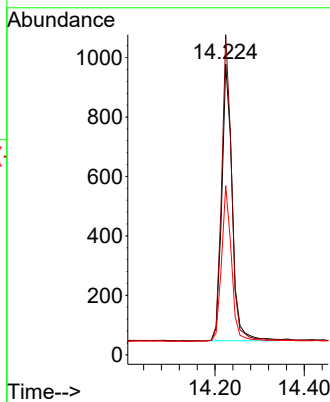
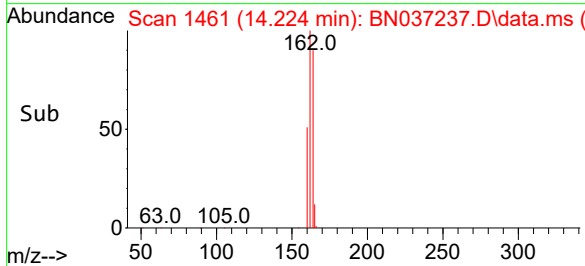
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



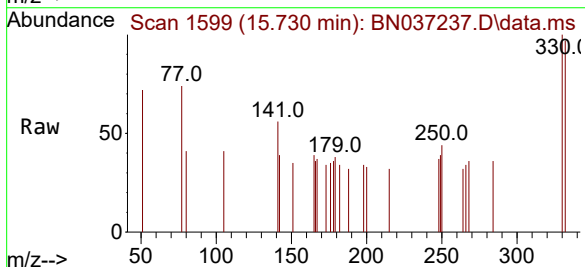
Tgt Ion:164 Resp: 151
Ion Ratio Lower Upper
164 100
162 110.1 86.7 130.1
160 58.2 45.8 68.6

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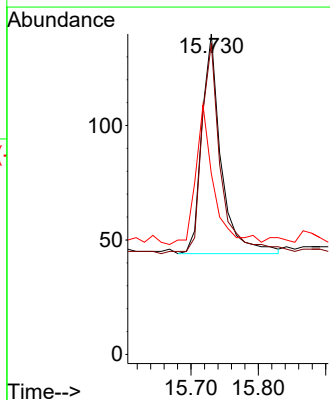
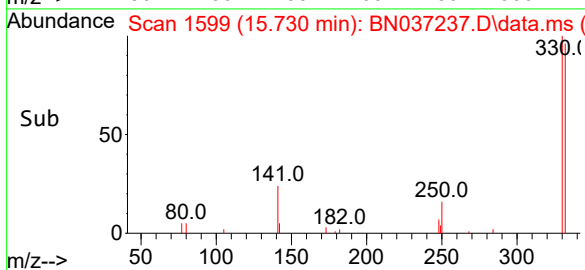
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

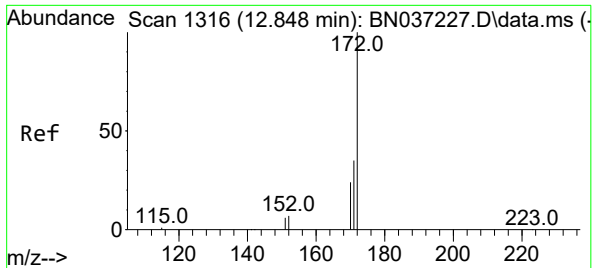


#14
2,4,6-Tribromophenol
Concen: 0.303 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25



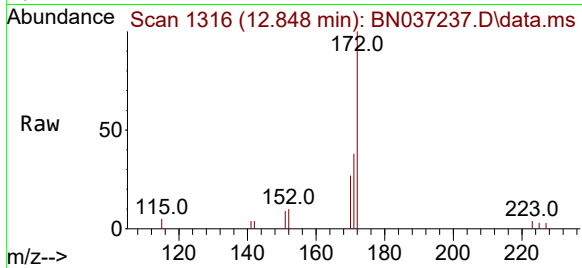
Tgt Ion:330 Resp: 191
Ion Ratio Lower Upper
330 100
332 96.9 74.9 112.3
141 59.7 45.1 67.7





#15
2-Fluorobiphenyl
Concen: 0.379 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

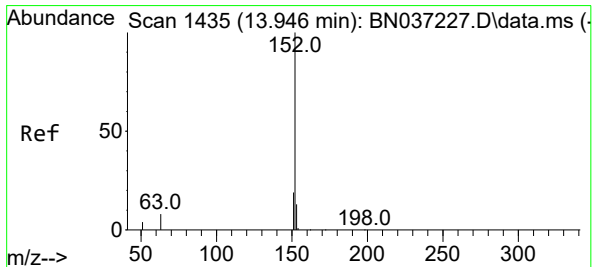
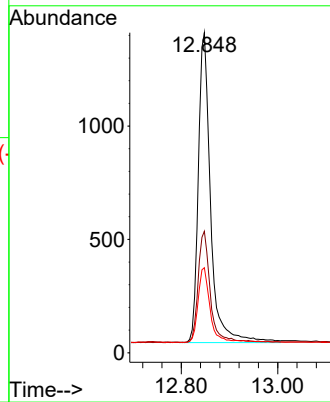
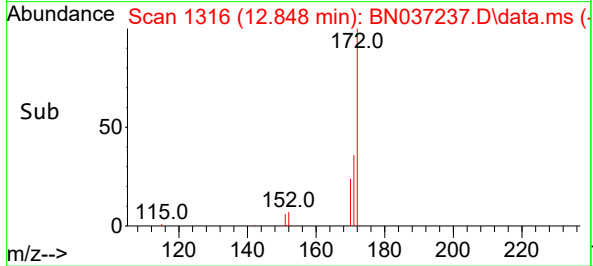
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



Tgt Ion:172 Resp: 2414
Ion Ratio Lower Upper
172 100
171 38.0 29.8 44.8
170 26.6 21.1 31.7

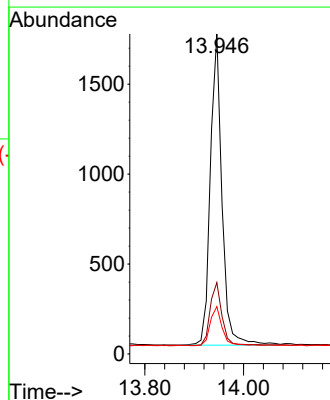
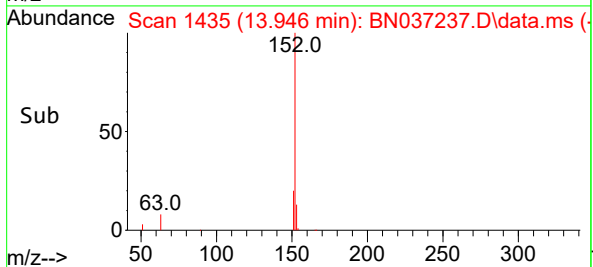
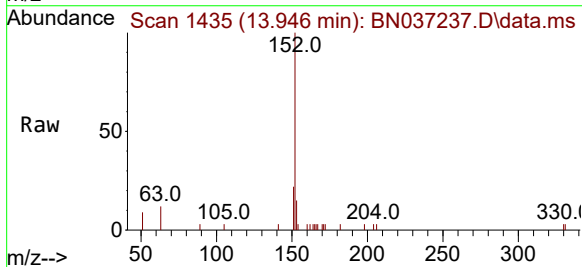
Manual Integrations
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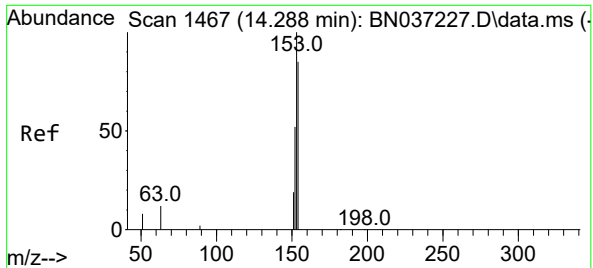
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

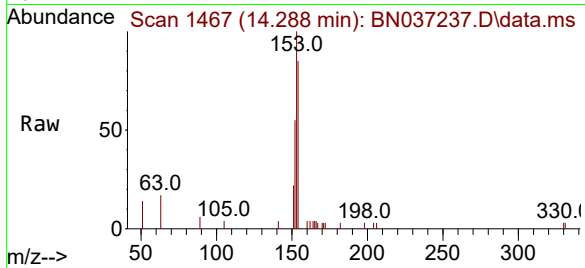
Tgt Ion:152 Resp: 2835
Ion Ratio Lower Upper
152 100
151 20.4 15.7 23.5
153 12.8 10.7 16.1





#17
Acenaphthene
Concen: 0.349 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

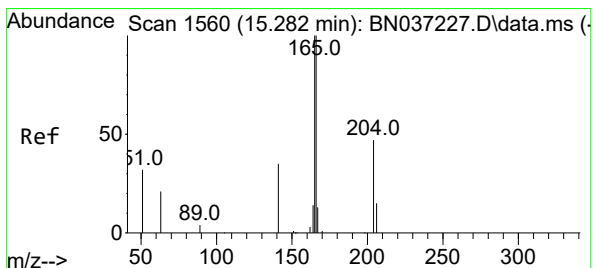
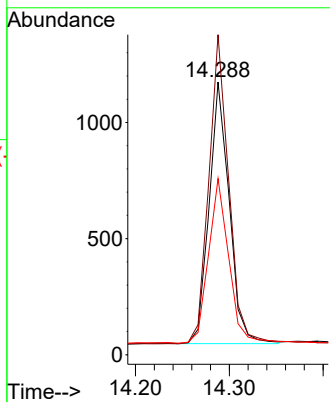
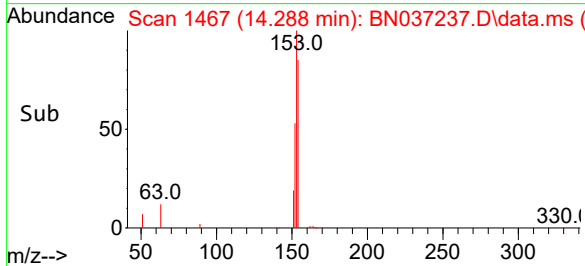
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



Tgt Ion:154 Resp: 1670
Ion Ratio Lower Upper
154 100
153 119.2 94.6 141.8
152 63.5 49.6 74.4

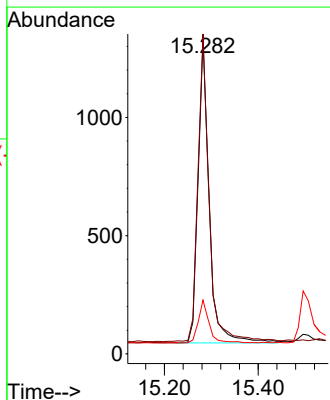
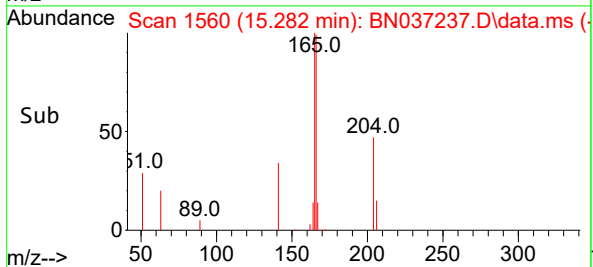
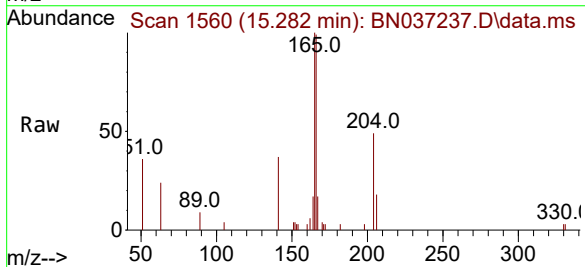
Manual Integrations
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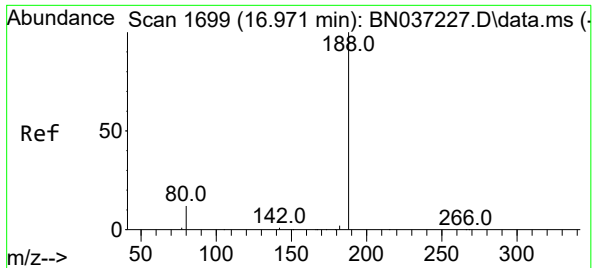
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#18
Fluorene
Concen: 0.347 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:166 Resp: 2139
Ion Ratio Lower Upper
166 100
165 100.4 79.8 119.6
167 13.7 10.8 16.2





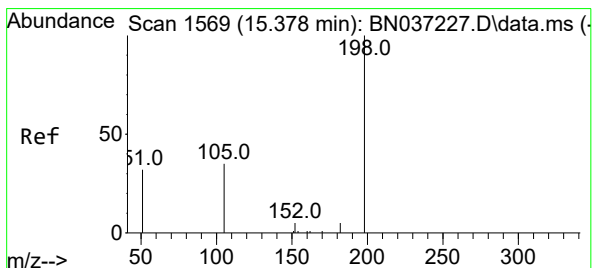
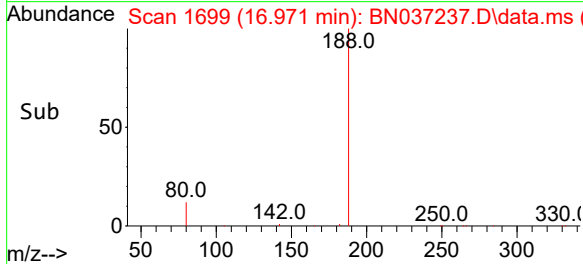
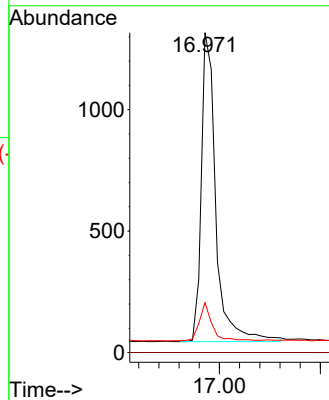
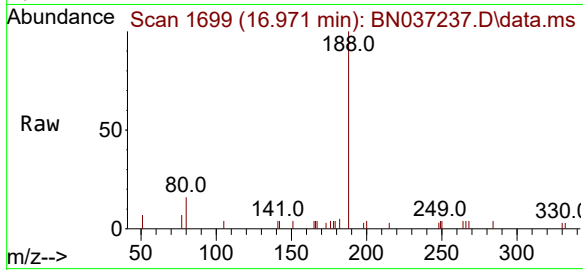
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Tgt Ion:188 Resp: 254
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.6 12.2 18.4

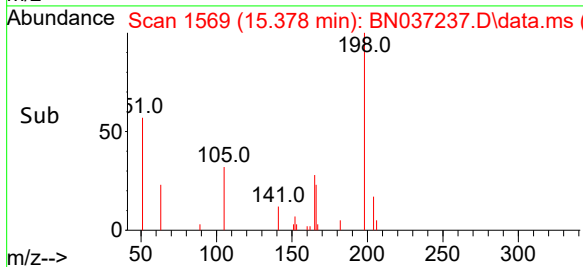
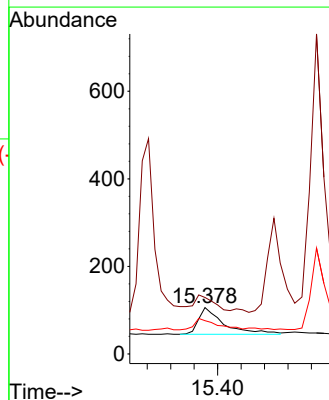
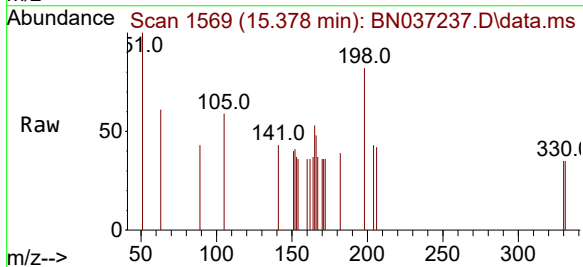
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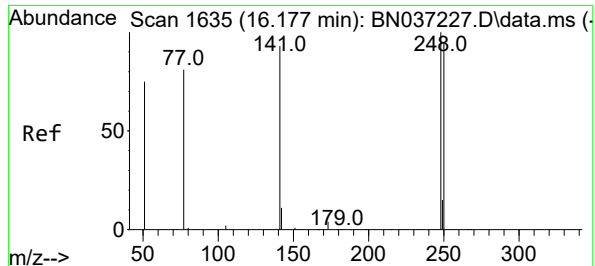
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.391 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:198 Resp: 183
Ion Ratio Lower Upper
198 100
51 121.7 111.2 166.8
105 71.7 54.0 81.0





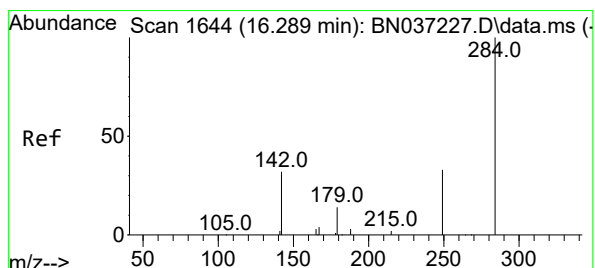
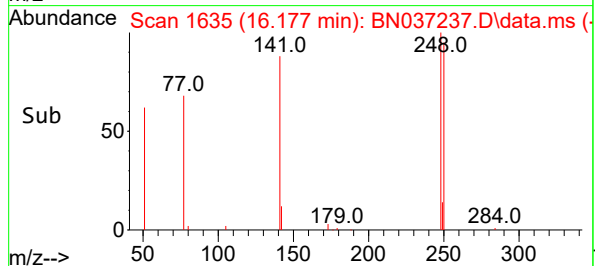
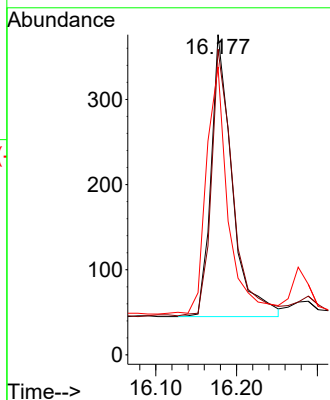
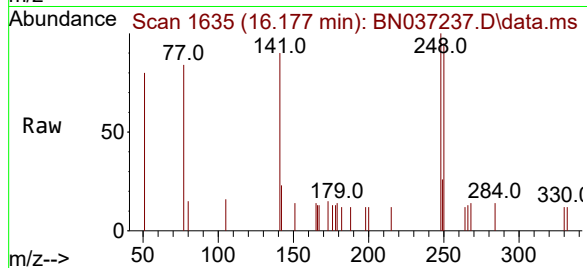
#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Tgt Ion:248 Resp: 60
Ion Ratio Lower Upper
248 100
250 95.5 76.8 115.2
141 89.9 75.6 113.4

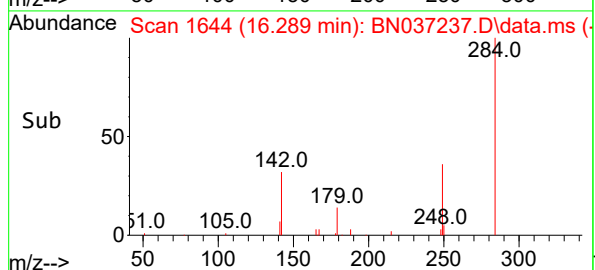
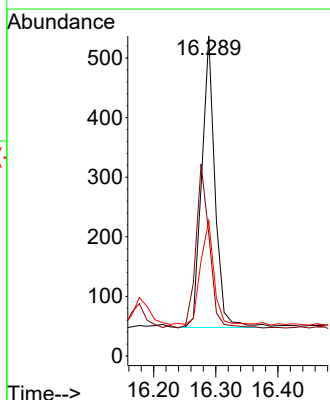
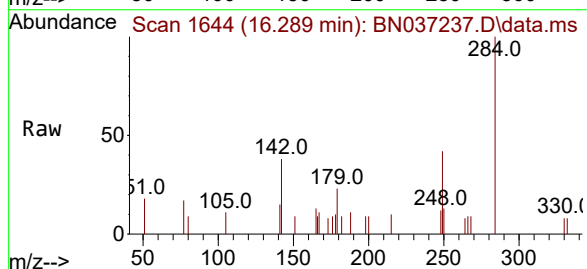
Manual Integrations
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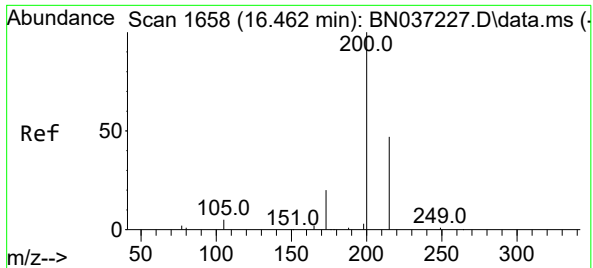
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:284 Resp: 730
Ion Ratio Lower Upper
284 100
142 56.7 43.8 65.6
249 36.2 28.4 42.6





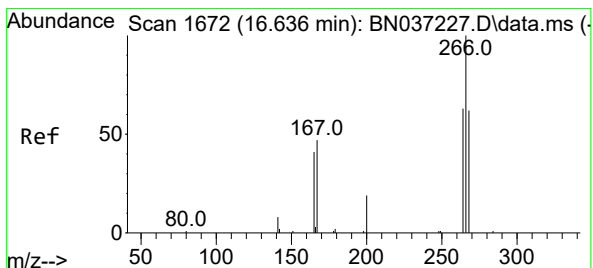
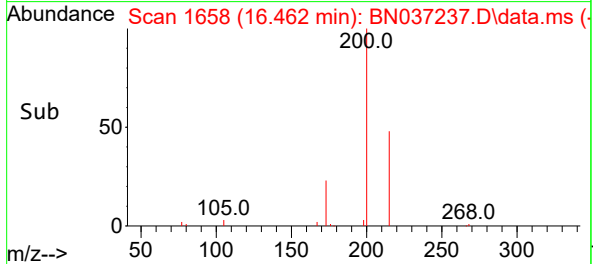
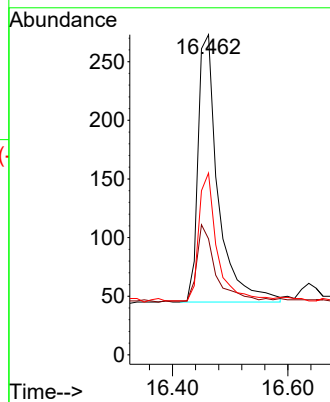
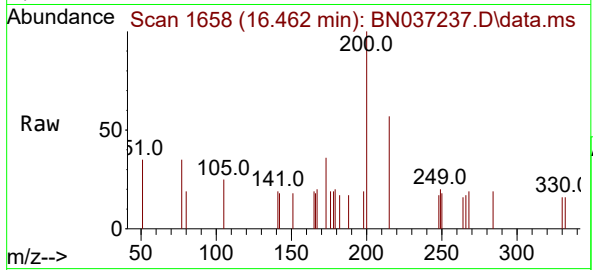
#23
Atrazine
Concen: 0.375 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Tgt Ion:200 Resp: 554
Ion Ratio Lower Upper
200 100
173 36.3 25.1 37.7
215 56.8 43.7 65.5

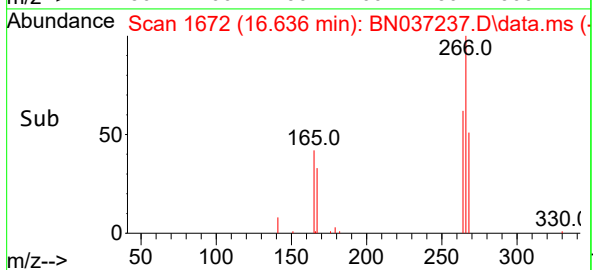
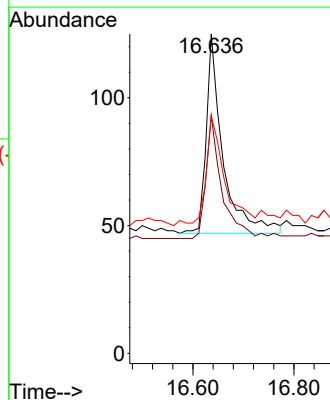
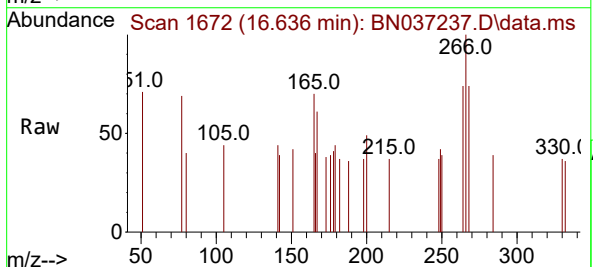
Manual Integrations
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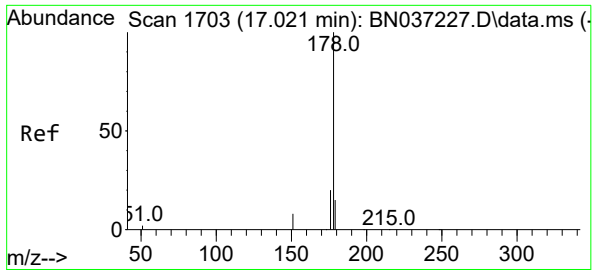
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#24
Pentachlorophenol
Concen: 0.190 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

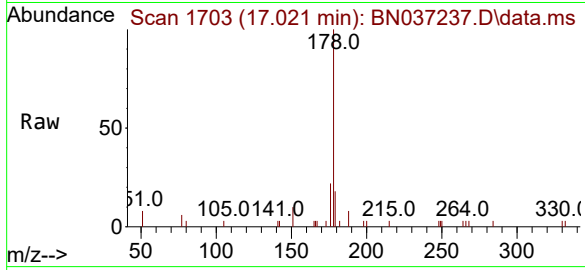
Tgt Ion:266 Resp: 179
Ion Ratio Lower Upper
266 100
264 59.8 49.2 73.8
268 62.0 53.4 80.2





#25
Phenanthrene
Concen: 0.357 ng
RT: 17.021 min Scan# 1703
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

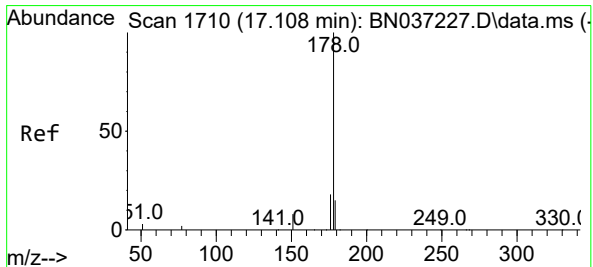
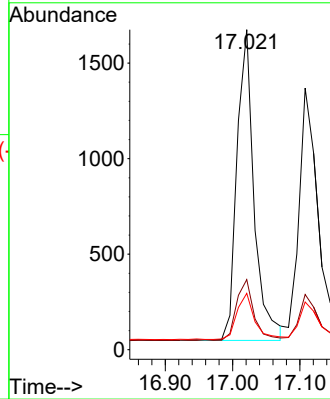
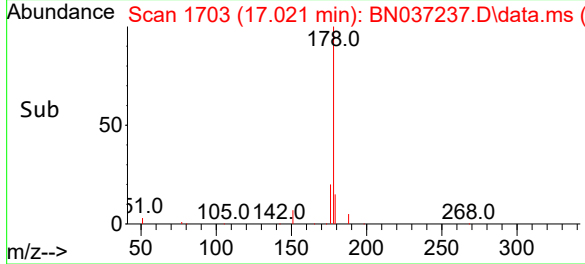
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



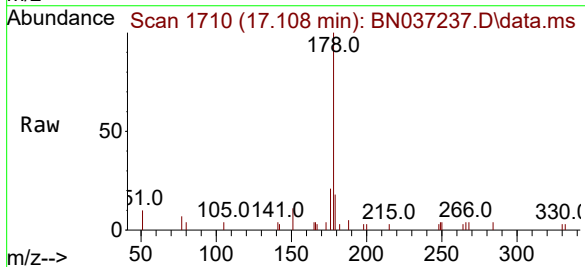
Tgt Ion:178 Resp: 2878
Ion Ratio Lower Upper
178 100
176 19.9 16.3 24.5
179 15.3 12.6 18.8

Manual Integrations
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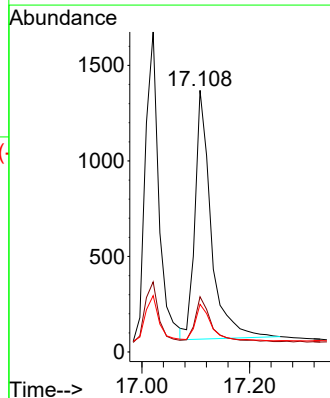
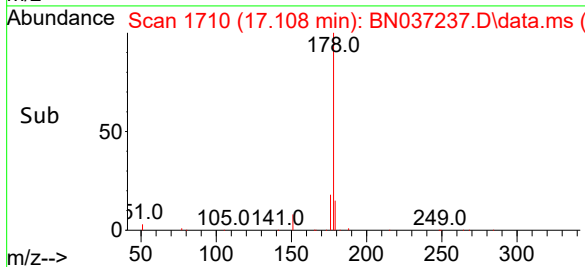
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

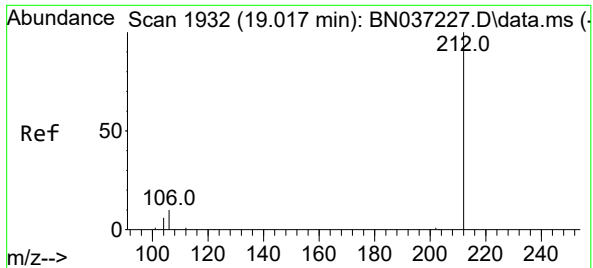


#26
Anthracene
Concen: 0.366 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25



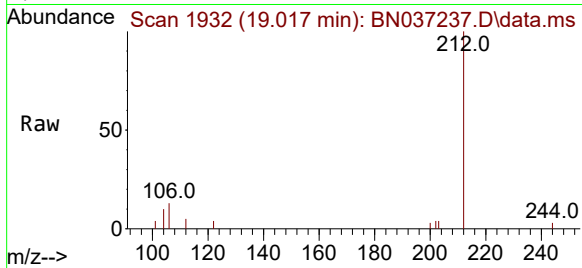
Tgt Ion:178 Resp: 2707
Ion Ratio Lower Upper
178 100
176 18.4 15.1 22.7
179 15.1 12.4 18.6





#27
Fluoranthene-d10
Concen: 0.340 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

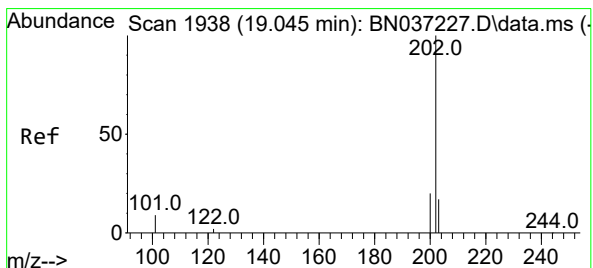
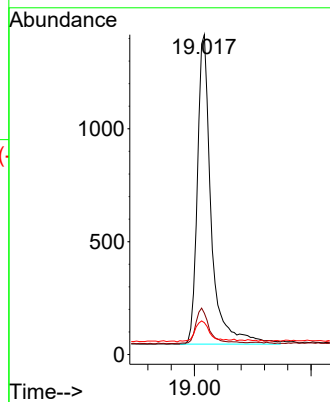
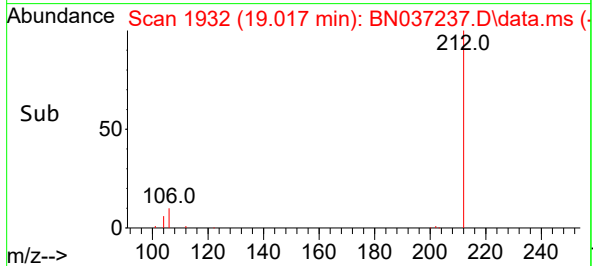
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



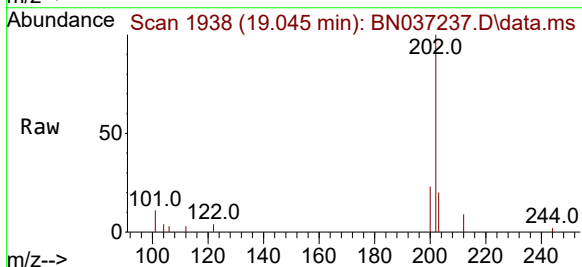
Tgt Ion:212 Resp: 2260
Ion Ratio Lower Upper
212 100
106 11.2 9.3 13.9
104 7.4 5.7 8.5

Manual Integrations
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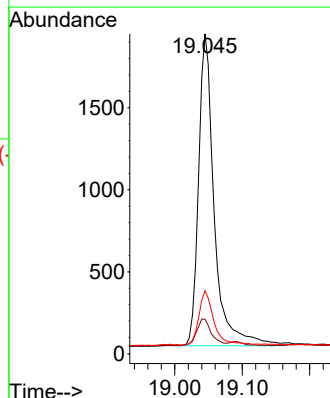
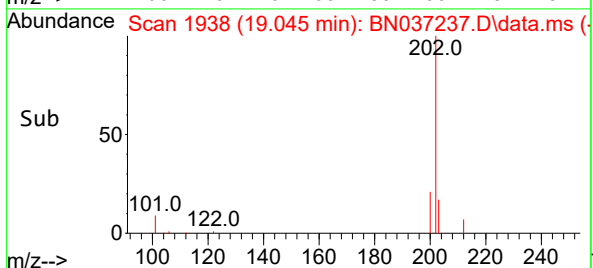
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

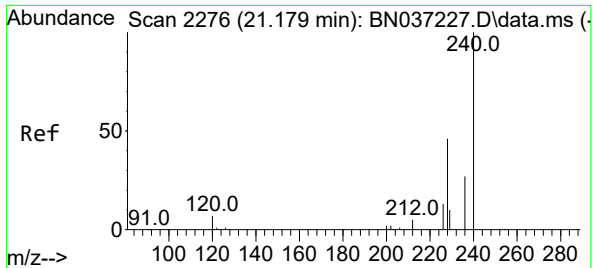


#28
Fluoranthene
Concen: 0.326 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25



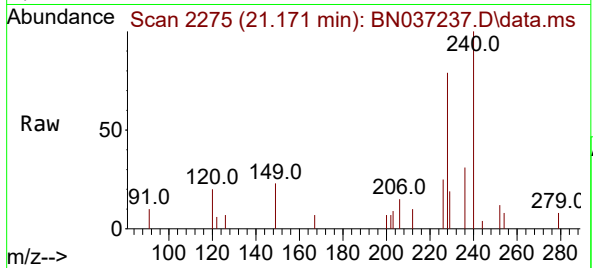
Tgt Ion:202 Resp: 3075
Ion Ratio Lower Upper
202 100
101 8.2 7.1 10.7
203 16.7 13.0 19.6





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

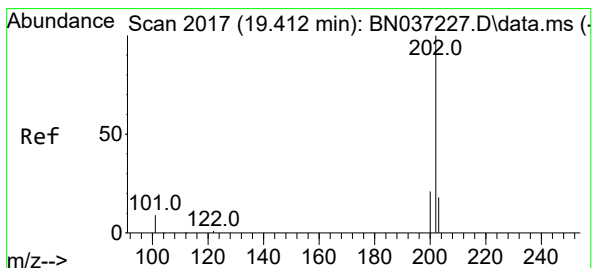
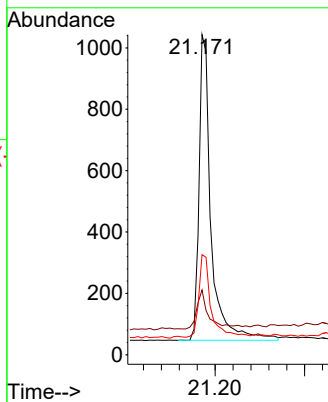
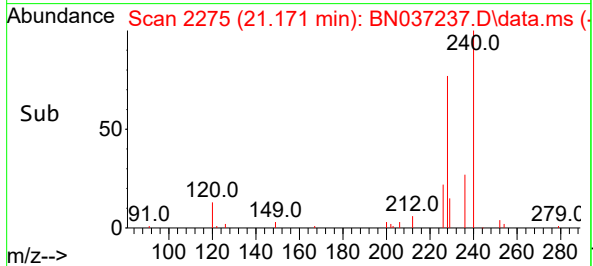
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



Tgt Ion:240 Resp: 1864
Ion Ratio Lower Upper
240 100
120 20.2 11.3 16.9
236 31.3 24.4 36.6

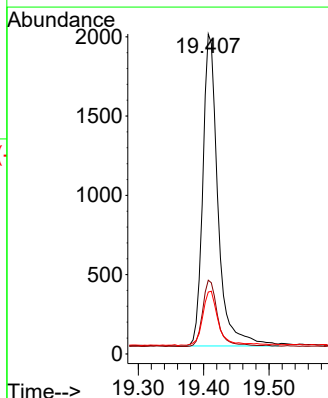
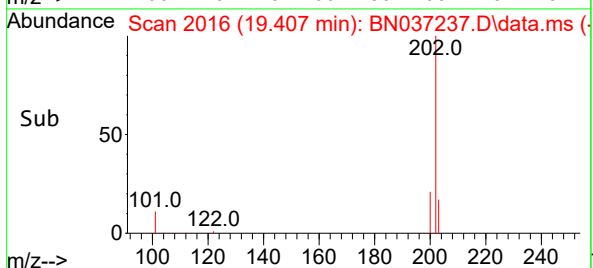
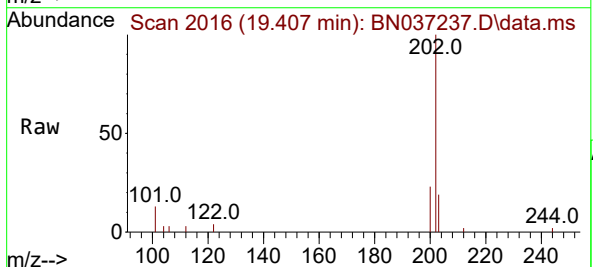
Manual Integrations
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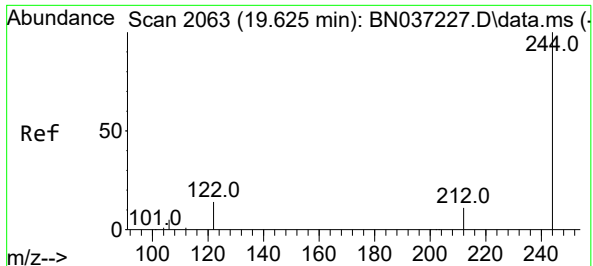
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#30
Pyrene
Concen: 0.361 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

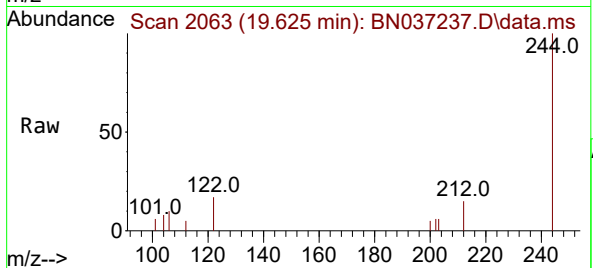
Tgt Ion:202 Resp: 3164
Ion Ratio Lower Upper
202 100
200 20.9 17.2 25.8
203 18.6 14.3 21.5





#31
Terphenyl-d14
Concen: 0.367 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

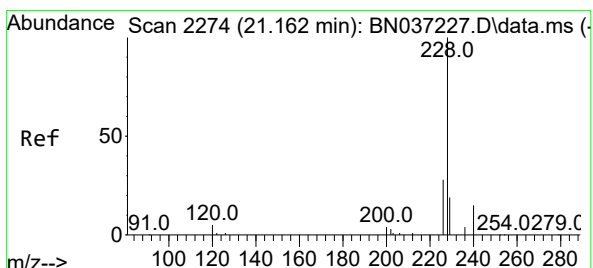
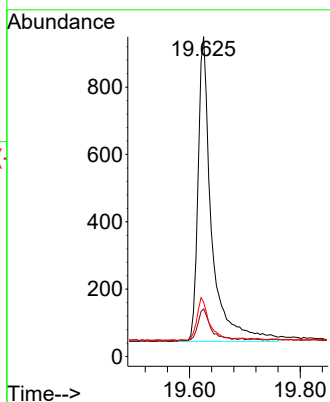
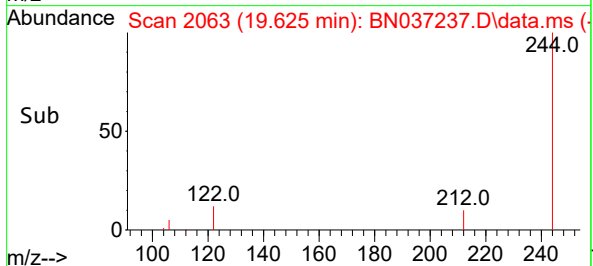
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



Tgt Ion:244 Resp: 154
Ion Ratio Lower Upper
244 100
212 14.8 12.2 18.2
122 16.9 14.3 21.5

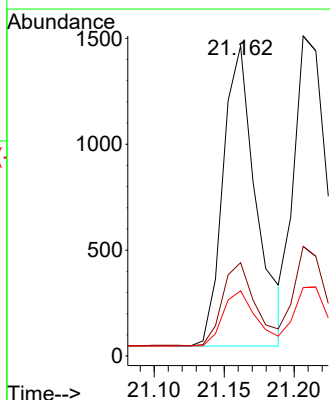
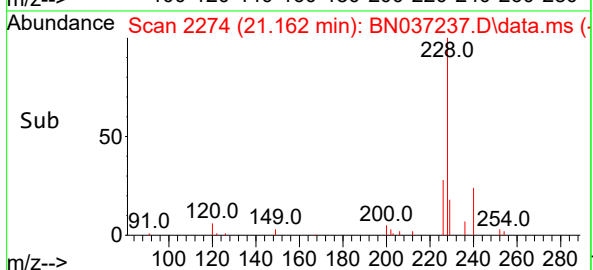
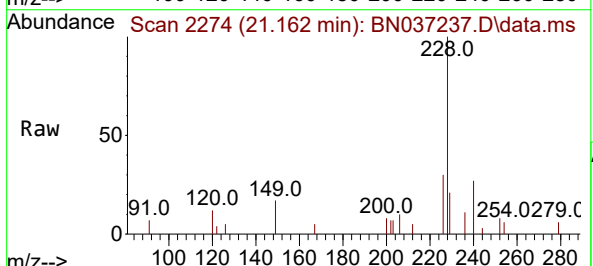
Manual Integrations
APPROVED

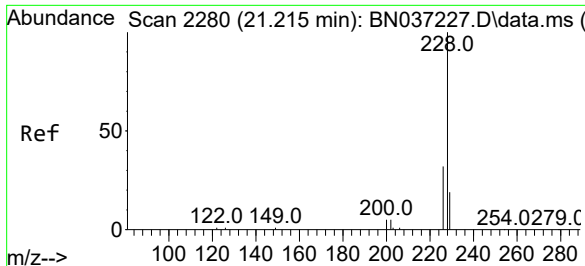
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:228 Resp: 2335
Ion Ratio Lower Upper
228 100
226 30.1 23.8 35.8
229 21.0 17.0 25.4





#33

Chrysene

Concen: 0.365 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

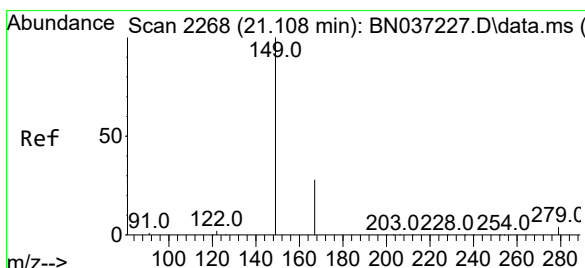
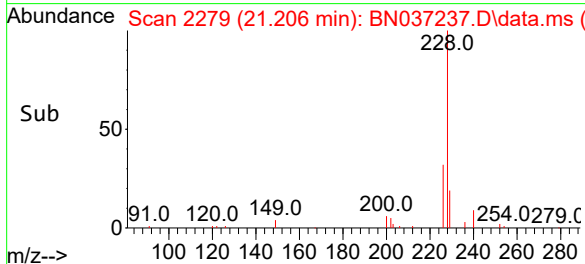
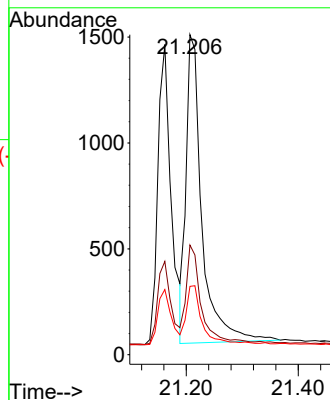
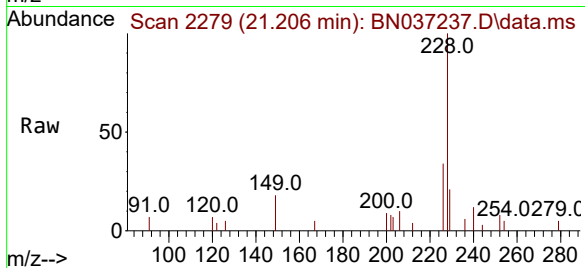
ClientSampleId :

PB168391BSD

Tgt Ion:	228	Resp:	285
Ion Ratio	Lower	Upper	
228	100		
226	34.3	25.8	38.6
229	21.4	17.0	25.4

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.353 ng

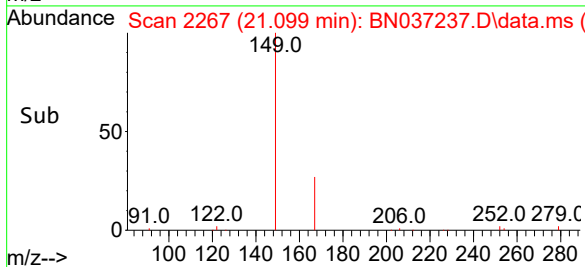
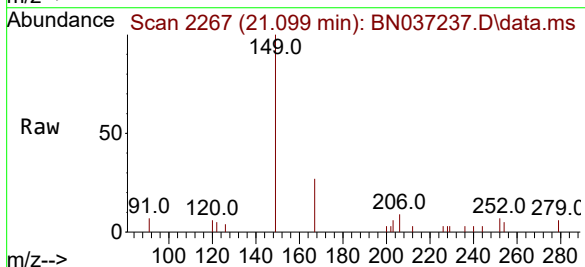
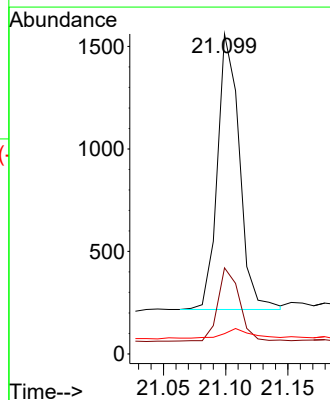
RT: 21.099 min Scan# 2267

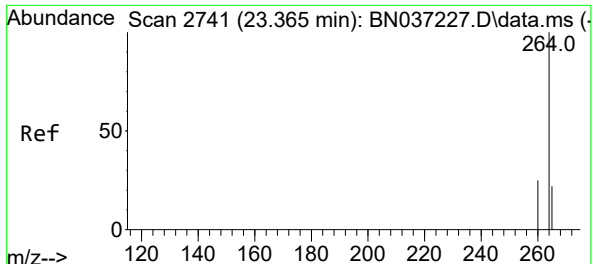
Delta R.T. -0.009 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Tgt Ion:	149	Resp:	1653
Ion Ratio	Lower	Upper	
149	100		
167	26.3	21.3	31.9
279	6.2	3.3	4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.363 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037237.D

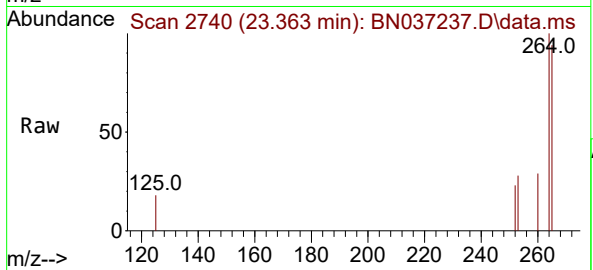
Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD



Tgt Ion:264 Resp: 182

Ion Ratio Lower Upper

264 100

260 28.8 22.8 34.2

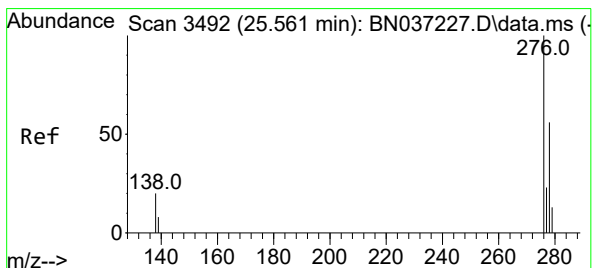
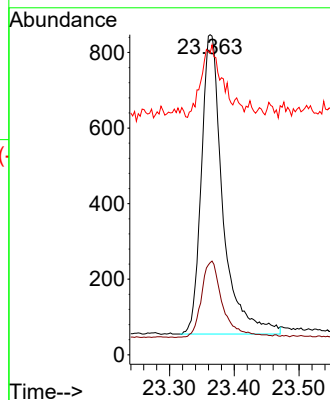
265 94.2 66.4 99.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.400 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

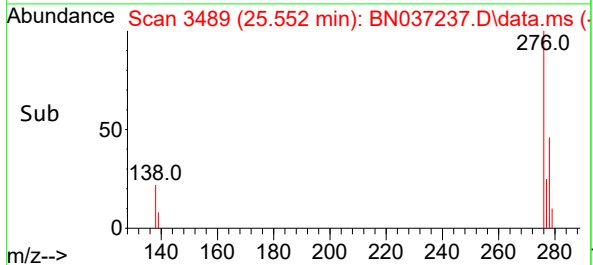
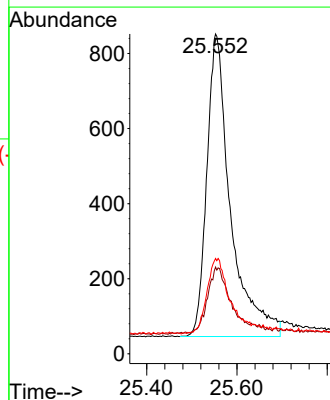
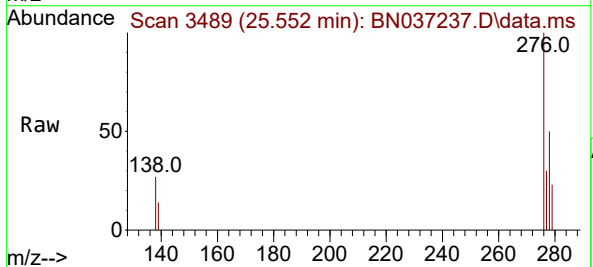
Tgt Ion:276 Resp: 2941

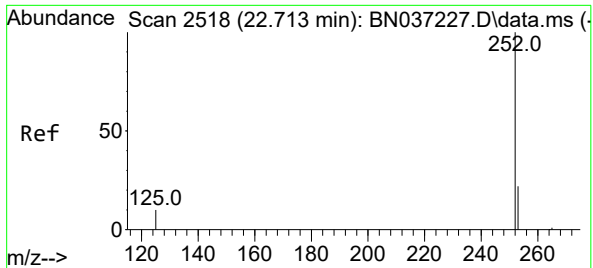
Ion Ratio Lower Upper

276 100

138 20.6 16.8 25.2

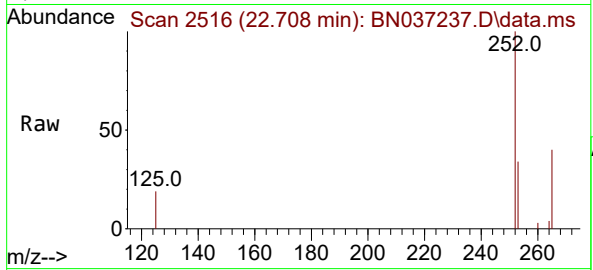
277 24.0 19.5 29.3





#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.708 min Scan# 2516
Delta R.T. -0.006 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

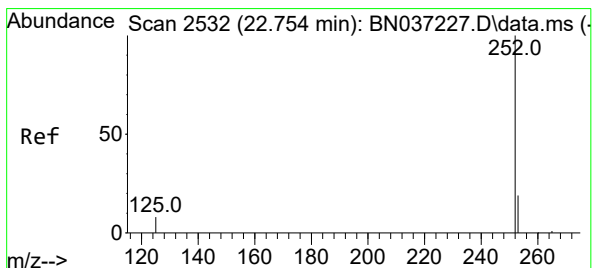
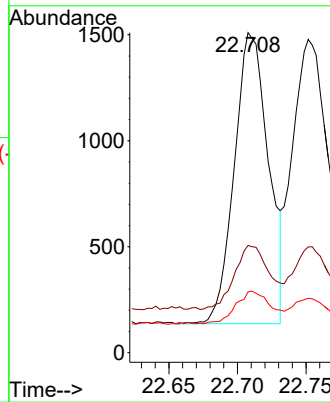
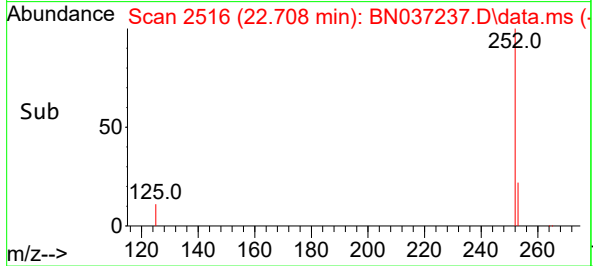
Instrument :
BNA_N
ClientSampleId :
PB168391BSD



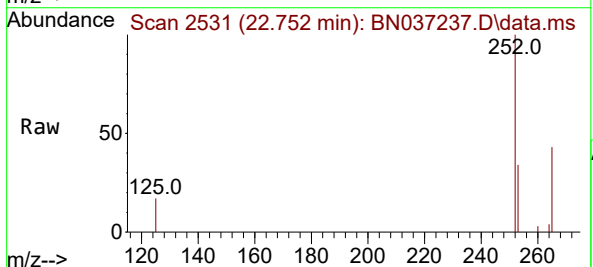
Tgt Ion:252 Resp: 2370
Ion Ratio Lower Upper
252 100
253 33.5 24.9 37.3
125 19.0 12.9 19.3

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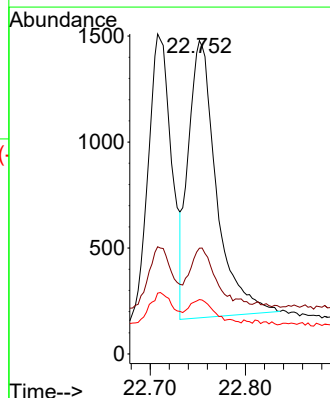
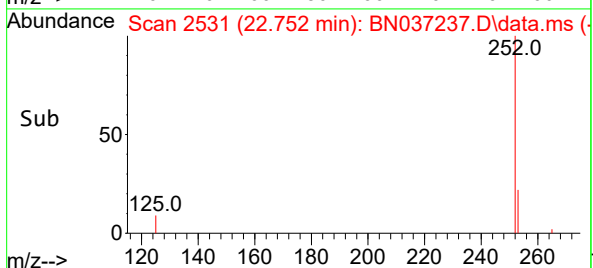
Reviewed By :Anahy Claudio 06/16/2025
Supervised By :Jagrut Upadhyay 06/16/2025

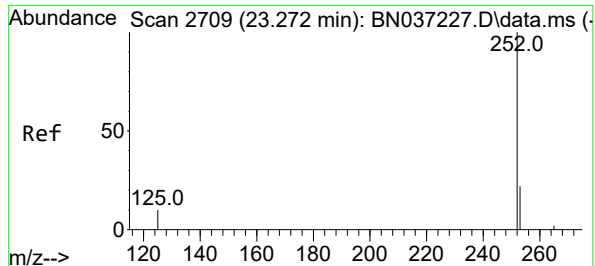


#38
Benzo(k)fluoranthene
Concen: 0.349 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25



Tgt Ion:252 Resp: 2685
Ion Ratio Lower Upper
252 100
253 33.8 24.6 37.0
125 17.4 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.390 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD

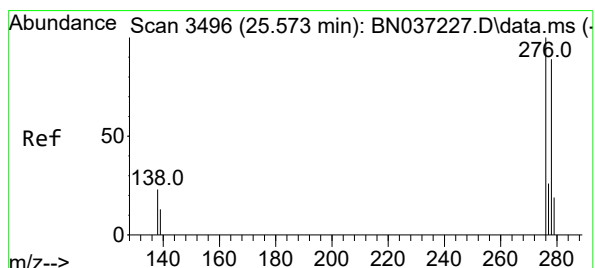
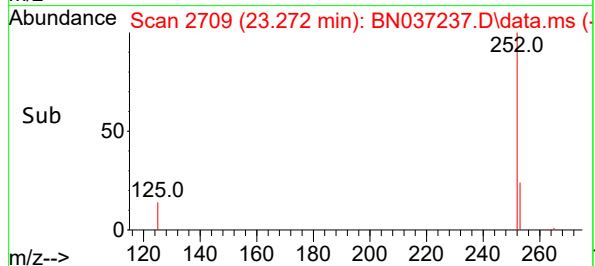
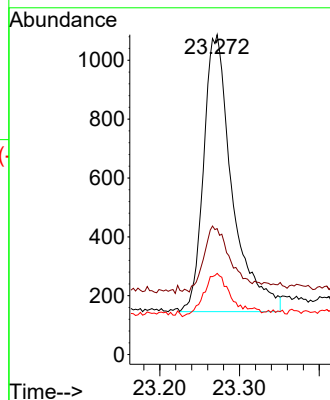
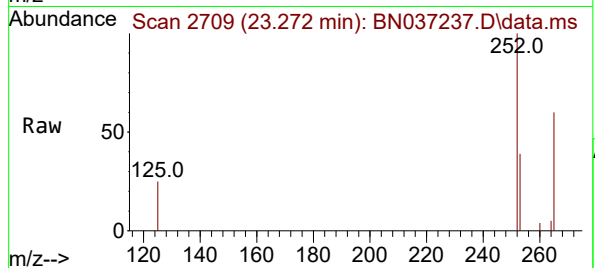
Tgt Ion:	252	Resp:	2338
Ion Ratio	Lower	Upper	
252	100		
253	39.4	29.4	44.2
125	25.4	16.2	24.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

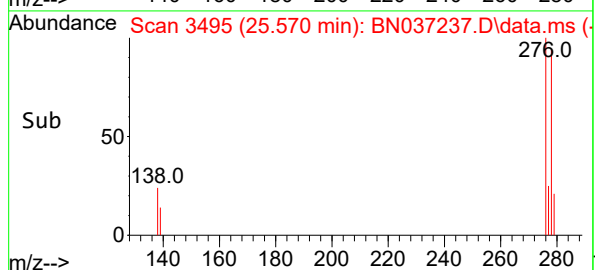
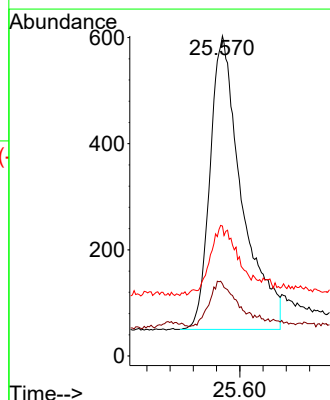
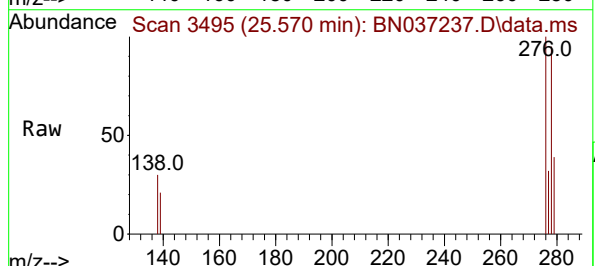
RT: 25.570 min Scan# 3495

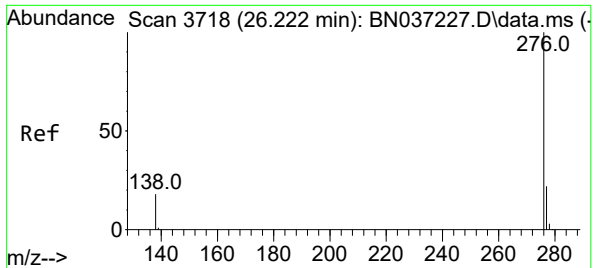
Delta R.T. -0.003 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Tgt Ion:	278	Resp:	2093
Ion Ratio	Lower	Upper	
278	100		
139	22.6	17.8	26.6
279	40.6	31.3	46.9





#41

Benzo(g,h,i)perylene

Concen: 0.368 ng

RT: 26.216 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037237.D

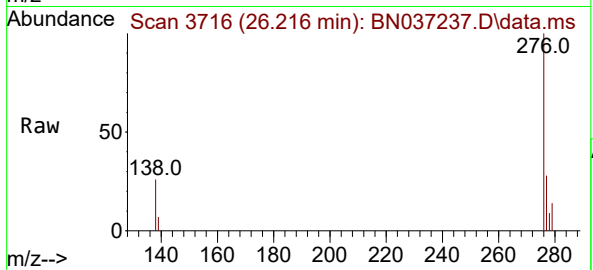
Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD



Tgt Ion: 276 Resp: 250

Ion Ratio Lower Upper

276 100

277 27.5 22.0 33.0

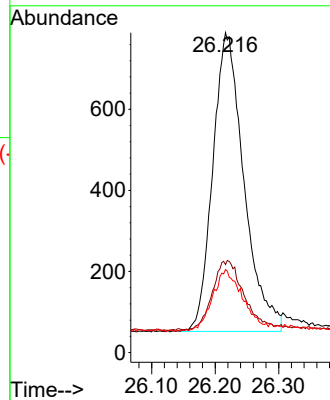
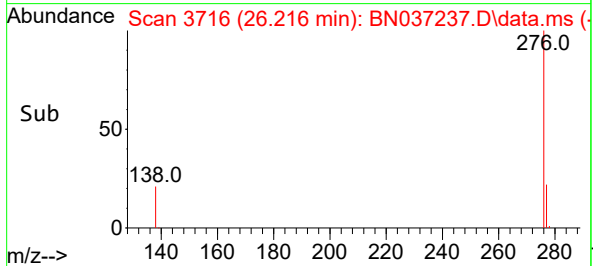
138 26.0 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



Manual Integration Report

Sequence:	BN061325	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037225.D	Benzo(k)fluoranthene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
SSTDICC0.1	BN037225.D	Dibenzo(a,h)anthracene	anahy	6/16/2025 10:00:46 AM	Jagrut	6/16/2025 10:17:11 AM	Peak Integrated by Software
PB168391BS	BN037236.D	2-Methylnaphthalene-d1 0	anahy	6/16/2025 10:01:28 AM	Jagrut	6/16/2025 10:16:51 AM	Peak Integrated by Software
PB168391BSD	BN037237.D	2-Methylnaphthalene-d1 0	anahy	6/16/2025 10:02:07 AM	Jagrut	6/16/2025 10:16:54 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
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	BN037223.D	13 Jun 2025 11:34	RC/JU	Ok
2	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	RC/JU	Not Ok
3	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	RC/JU	Ok,M
4	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10	RC/JU	Ok
5	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	RC/JU	Ok
6	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22	RC/JU	Ok
7	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59	RC/JU	Ok
8	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35	RC/JU	Ok
9	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11	RC/JU	Ok
10	SSTDICV0.4	BN037232.D	13 Jun 2025 17:47	RC/JU	Ok
11	PB168391BL	BN037233.D	13 Jun 2025 19:00	RC/JU	Ok
12	Q2275-01	BN037234.D	13 Jun 2025 19:36	RC/JU	Ok
13	Q2275-03	BN037235.D	13 Jun 2025 20:12	RC/JU	Ok
14	PB168391BS	BN037236.D	13 Jun 2025 20:49	RC/JU	Ok,M
15	PB168391BSD	BN037237.D	13 Jun 2025 21:25	RC/JU	Ok,M
16	SSTDCCC0.4	BN037238.D	13 Jun 2025 22:01	RC/JU	Ok
17	DFTPP	BN037239.D	13 Jun 2025 23:16	RC/JU	Ok
18	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55	RC/JU	Ok
19	PB168458BL	BN037241.D	14 Jun 2025 00:31	RC/JU	Ok
20	Q2263-01	BN037242.D	14 Jun 2025 01:08	RC/JU	Ok
21	Q2263-02	BN037243.D	14 Jun 2025 01:44	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2299-01	BN037244.D	14 Jun 2025 02:20	RC/JU	Ok
23	Q2299-02	BN037245.D	14 Jun 2025 02:56	RC/JU	Ok
24	Q2299-03MS	BN037246.D	14 Jun 2025 03:32	RC/JU	Ok,M
25	Q2299-04MSD	BN037247.D	14 Jun 2025 04:08	RC/JU	Ok,M
26	Q2299-05	BN037248.D	14 Jun 2025 04:45	RC/JU	Ok
27	Q2299-06	BN037249.D	14 Jun 2025 05:21	RC/JU	Ok
28	Q2299-07	BN037250.D	14 Jun 2025 05:57	RC/JU	Ok
29	Q2299-08	BN037251.D	14 Jun 2025 06:33	RC/JU	Ok
30	Q2299-09	BN037252.D	14 Jun 2025 07:09	RC/JU	Ok
31	Q2299-10	BN037253.D	14 Jun 2025 07:46	RC/JU	Ok
32	Q2299-11	BN037254.D	14 Jun 2025 08:22	RC/JU	Ok
33	Q2299-12	BN037255.D	14 Jun 2025 08:58	RC/JU	Ok
34	Q2299-13	BN037256.D	14 Jun 2025 09:34	RC/JU	Dilution
35	SSTDCCC0.4	BN037257.D	14 Jun 2025 10:10	RC/JU	Ok
36	DFTPP	BN037258.D	14 Jun 2025 12:44	RC/JU	Ok
37	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23	RC/JU	Ok
38	PB168336BL	BN037260.D	14 Jun 2025 13:59	RC/JU	Ok
39	Q2299-14	BN037261.D	14 Jun 2025 14:35	RC/JU	Dilution
40	Q2299-15	BN037262.D	14 Jun 2025 15:11	RC/JU	Ok
41	Q2299-16	BN037263.D	14 Jun 2025 15:47	RC/JU	Ok
42	Q2299-17	BN037264.D	14 Jun 2025 16:23	RC/JU	Dilution
43	Q2299-18	BN037265.D	14 Jun 2025 17:00	RC/JU	Ok
44	Q2299-19	BN037266.D	14 Jun 2025 17:36	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	Q2299-20	BN037267.D	14 Jun 2025 18:12	RC/JU	Ok
46	Q2299-21	BN037268.D	14 Jun 2025 18:48	RC/JU	Ok
47	Q2299-22	BN037269.D	14 Jun 2025 19:24	RC/JU	Ok
48	PB168458BS	BN037270.D	14 Jun 2025 20:00	RC/JU	Ok,M
49	SSTDCCC0.4	BN037271.D	14 Jun 2025 20:36	RC/JU	Ok
50	DFTPP	BN037272.D	14 Jun 2025 21:51	RC/JU	Ok
51	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31	RC/JU	Ok
52	PB168476BL	BN037274.D	14 Jun 2025 23:07	RC/JU	Ok
53	Q2314-04	BN037275.D	14 Jun 2025 23:43	RC/JU	Ok
54	Q2314-05	BN037276.D	15 Jun 2025 00:18	RC/JU	Ok
55	Q2314-06	BN037277.D	15 Jun 2025 00:54	RC/JU	Ok
56	Q2316-01	BN037278.D	15 Jun 2025 01:30	RC/JU	Ok
57	Q2316-02	BN037279.D	15 Jun 2025 02:06	RC/JU	Ok
58	PB168476BS	BN037280.D	15 Jun 2025 02:42	RC/JU	Ok,M
59	PB168476BSD	BN037281.D	15 Jun 2025 03:18	RC/JU	Ok,M
60	SSTDCCC0.4	BN037282.D	15 Jun 2025 03:54	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037223.D	13 Jun 2025 11:34		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037224.D	13 Jun 2025 12:50	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037225.D	13 Jun 2025 13:33	Compound #02,03,20,24,34 removed from 0.1 PPM	RC/JU	Ok,M
4	SSTDICC0.2	SSTDICC0.2	BN037226.D	13 Jun 2025 14:10		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037227.D	13 Jun 2025 14:46	Compound#20 Kept on QR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037228.D	13 Jun 2025 15:22		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037229.D	13 Jun 2025 15:59		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037230.D	13 Jun 2025 16:35		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037231.D	13 Jun 2025 17:11		RC/JU	Ok
10	SSTDICV0.4	ICVBN061325	BN037232.D	13 Jun 2025 17:47		RC/JU	Ok
11	PB168391BL	PB168391BL	BN037233.D	13 Jun 2025 19:00		RC/JU	Ok
12	Q2275-01	OW-08B-72.5-060925	BN037234.D	13 Jun 2025 19:36		RC/JU	Ok
13	Q2275-03	EB01-060925	BN037235.D	13 Jun 2025 20:12		RC/JU	Ok
14	PB168391BS	PB168391BS	BN037236.D	13 Jun 2025 20:49		RC/JU	Ok,M
15	PB168391BSD	PB168391BSD	BN037237.D	13 Jun 2025 21:25		RC/JU	Ok,M
16	SSTDCCC0.4	SSTDCCC0.4EC	BN037238.D	13 Jun 2025 22:01		RC/JU	Ok
17	DFTPP	DFTPP	BN037239.D	13 Jun 2025 23:16		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	SSTDCCC0.4	SSTDCCC0.4	BN037240.D	13 Jun 2025 23:55		RC/JU	Ok
19	PB168458BL	PB168458BL	BN037241.D	14 Jun 2025 00:31		RC/JU	Ok
20	Q2263-01	RW9-MW01D3-202506	BN037242.D	14 Jun 2025 01:08		RC/JU	Ok
21	Q2263-02	RW9-MW01S-2025060	BN037243.D	14 Jun 2025 01:44		RC/JU	Ok
22	Q2299-01	RE117D1-20250609	BN037244.D	14 Jun 2025 02:20		RC/JU	Ok
23	Q2299-02	RE117D2-20250609	BN037245.D	14 Jun 2025 02:56		RC/JU	Ok
24	Q2299-03MS	TT191D1-20250609MS	BN037246.D	14 Jun 2025 03:32		RC/JU	Ok,M
25	Q2299-04MSD	TT191D1-20250609MS	BN037247.D	14 Jun 2025 04:08		RC/JU	Ok,M
26	Q2299-05	TT191D1-20250609	BN037248.D	14 Jun 2025 04:45		RC/JU	Ok
27	Q2299-06	TT191D2-20250609	BN037249.D	14 Jun 2025 05:21		RC/JU	Ok
28	Q2299-07	RW10-MW01S-202506	BN037250.D	14 Jun 2025 05:57		RC/JU	Ok
29	Q2299-08	RW10-MW01D-202506	BN037251.D	14 Jun 2025 06:33		RC/JU	Ok
30	Q2299-09	RW10A-MW01S-20250	BN037252.D	14 Jun 2025 07:09		RC/JU	Ok
31	Q2299-10	RW10A-MW01I-202506	BN037253.D	14 Jun 2025 07:46		RC/JU	Ok
32	Q2299-11	TT158I1-20250610	BN037254.D	14 Jun 2025 08:22		RC/JU	Ok
33	Q2299-12	DUP01-20250610	BN037255.D	14 Jun 2025 08:58		RC/JU	Ok
34	Q2299-13	RE131D2-20250610	BN037256.D	14 Jun 2025 09:34	Need 5X Dilution	RC/JU	Dilution
35	SSTDCCC0.4	SSTDCCC0.4EC	BN037257.D	14 Jun 2025 10:10		RC/JU	Ok
36	DFTPP	DFTPP	BN037258.D	14 Jun 2025 12:44		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

37	SSTDCCC0.4	SSTDCCC0.4	BN037259.D	14 Jun 2025 13:23		RC/JU	Ok
38	PB168336BL	PB168336BL	BN037260.D	14 Jun 2025 13:59		RC/JU	Ok
39	Q2299-14	DUP02-20250610	BN037261.D	14 Jun 2025 14:35	Need 5X Dilution	RC/JU	Dilution
40	Q2299-15	TT174I1-20250610	BN037262.D	14 Jun 2025 15:11		RC/JU	Ok
41	Q2299-16	RE134D4-20250610	BN037263.D	14 Jun 2025 15:47		RC/JU	Ok
42	Q2299-17	RE134D3-20250610	BN037264.D	14 Jun 2025 16:23	Need 2X Dilution	RC/JU	Dilution
43	Q2299-18	TT190D1-20250611	BN037265.D	14 Jun 2025 17:00		RC/JU	Ok
44	Q2299-19	RW11-MW01I-20250611	BN037266.D	14 Jun 2025 17:36		RC/JU	Ok
45	Q2299-20	RW11-MW01S-20250611	BN037267.D	14 Jun 2025 18:12		RC/JU	Ok
46	Q2299-21	RE134D1-20250611	BN037268.D	14 Jun 2025 18:48		RC/JU	Ok
47	Q2299-22	TT190D2-20250611	BN037269.D	14 Jun 2025 19:24		RC/JU	Ok
48	PB168458BS	PB168458BS	BN037270.D	14 Jun 2025 20:00		RC/JU	Ok,M
49	SSTDCCC0.4	SSTDCCC0.4EC	BN037271.D	14 Jun 2025 20:36		RC/JU	Ok
50	DFTPP	DFTPP	BN037272.D	14 Jun 2025 21:51		RC/JU	Ok
51	SSTDCCC0.4	SSTDCCC0.4	BN037273.D	14 Jun 2025 22:31		RC/JU	Ok
52	PB168476BL	PB168476BL	BN037274.D	14 Jun 2025 23:07		RC/JU	Ok
53	Q2314-04	BP-VPB-182-GW-880-8	BN037275.D	14 Jun 2025 23:43		RC/JU	Ok
54	Q2314-05	BP-VPB-182-EB-20250611	BN037276.D	15 Jun 2025 00:18		RC/JU	Ok
55	Q2314-06	VPB182-HYD-20250611	BN037277.D	15 Jun 2025 00:54	Surrogate fail	RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061325

Review By	anahy	Review On	6/16/2025 10:18:23 AM
Supervise By	Jagrut	Supervise On	6/16/2025 10:18:34 AM
SubDirectory	BN061325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

56	Q2316-01	RW8-SP100-20250612	BN037278.D	15 Jun 2025 01:30		RC/JU	Ok
57	Q2316-02	RW8-SP303-20250612	BN037279.D	15 Jun 2025 02:06		RC/JU	Ok
58	PB168476BS	PB168476BS	BN037280.D	15 Jun 2025 02:42		RC/JU	Ok,M
59	PB168476BSD	PB168476BSD	BN037281.D	15 Jun 2025 03:18		RC/JU	Ok,M
60	SSTDCCC0.4	SSTDCCC0.4EC	BN037282.D	15 Jun 2025 03:54		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 06/10/2025

Extraction Start Time : 12:20

Extraction End Date : 06/10/2025

Extraction End Time : 17:10

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
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	E3939
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
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# 2210443. 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
06/10/25	RP (Ext. 205)	Rclsvoc
17:15	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/10/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168391BL	SBLK391	SVOC-SIMGrou p1	1000	6	RUPEsh	rajesh	1			SEP-1
PB168391BS	SLCS391	SVOC-SIMGrou p1	1000	6	RUPEsh	rajesh	1			2
PB168391BS D	SLCSD391	SVOC-SIMGrou p1	1000	6	RUPEsh	rajesh	1			3
Q2263-01	RW9-MW01D3-20250606	SVOC-SIMGrou p1	1000	6	RUPEsh	rajesh	1	C		4
Q2263-02	RW9-MW01D3-20250606	SVOC-SIMGrou p1	970	6	RUPEsh	rajesh	1	C		5
Q2275-01	OW-08B-72.5-060925	SVOC-SIMGrou p1	990	6	RUPEsh	rajesh	1	D		6
Q2275-03	EB01-060925	SVOC-SIMGrou p1	890	6	RUPEsh	rajesh	1	D		7

* Extracts relinquished on the same date as received.

164351
12-20

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2263

WorkList ID : 190070

Department : Extraction

Date : 06-10-2025 12:18:43

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2263-01	RW9-MW01D3-20250606	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D21	06/06/2025	8270-Modified
Q2263-02	RW9-MW01D3-20250606	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D21	06/06/2025	8270-Modified
Q2275-01	OW-08B-72.5-060925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D31	06/08/2025	8270-Modified
Q2275-03	EB01-060925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D31	06/08/2025	8270-Modified

Date/Time 06/10/25 12:19
Raw Sample Received by: RSC (Lab)
Raw Sample Relinquished by: CP

Q2263-SVOC-SIMGroup1

Date/Time 06/10/25 12:11
Raw Sample Received by: CP
Raw Sample Relinquished by: RSC (Lab)
388 of 515

Prep Standard - Chemical Standard Summary

Order ID : Q2263
Test : SVOC-SIMGroup1
Prepbatch ID : PB168391,
Sequence ID/Qc Batch ID: BN061325,

Standard ID :
EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3939,M6157,S10104,S 11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,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	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

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	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 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	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025

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	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>
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed
04/07/2025								

FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	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

<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
								04/16/2025

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	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								

<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)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
FROM 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6776	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6777	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6779	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
FROM 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	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)	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	11/22/2025	05/22/2025 / RUPESH	02/28/2025 / RUPESH	E3939

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)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

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	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

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	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	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

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

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	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

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	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

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5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Z-112090-04 **Lot No.:** 440246 **Storage:** $\leq -10^{\circ}\text{C}$ **Solvent:** Methylene Chloride **Exp. Date:** 2/16/2026 **Description:** CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By:

Erica Castiglione
Chemist



**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.

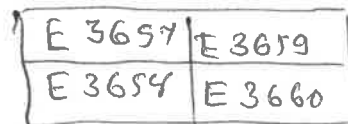
This document has been electronically produced and is valid without a signature.

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.: 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



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

E3902

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3939

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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MB

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantors**™



Material No.: 9673-33
Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production



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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
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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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** 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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Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

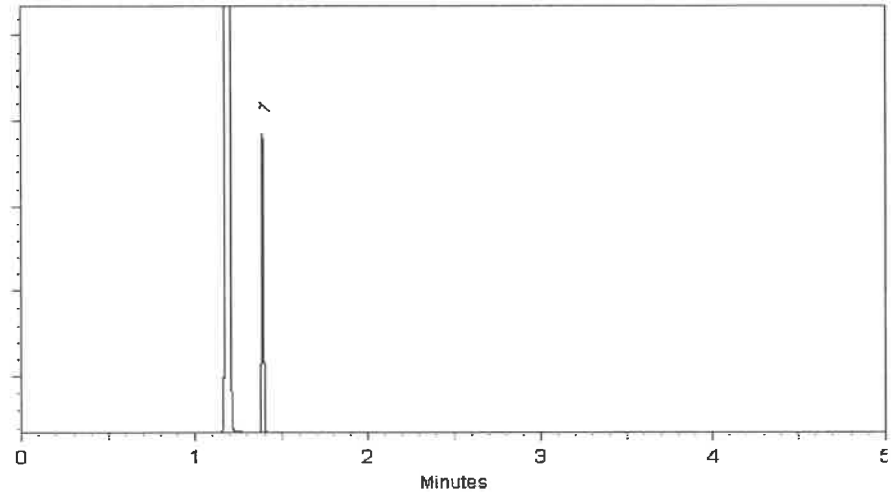
FID

Split Vent:

100 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

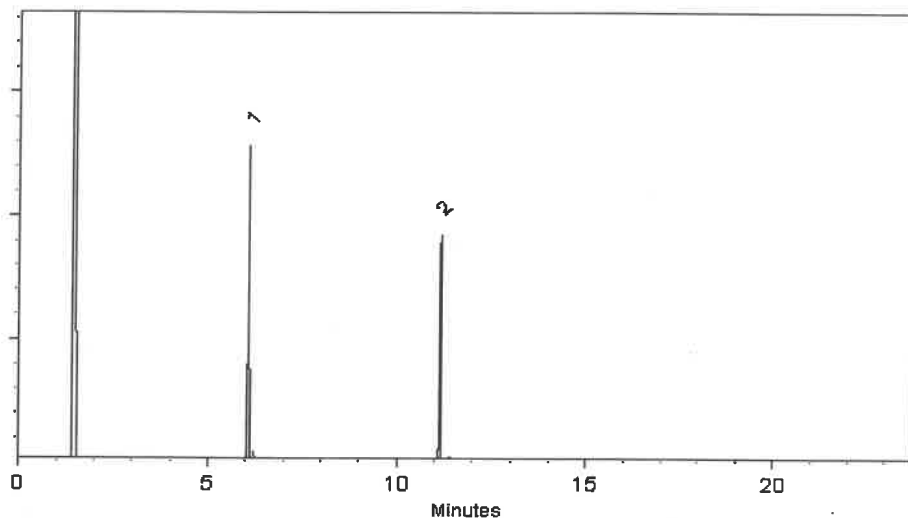
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

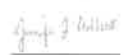


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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
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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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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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Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

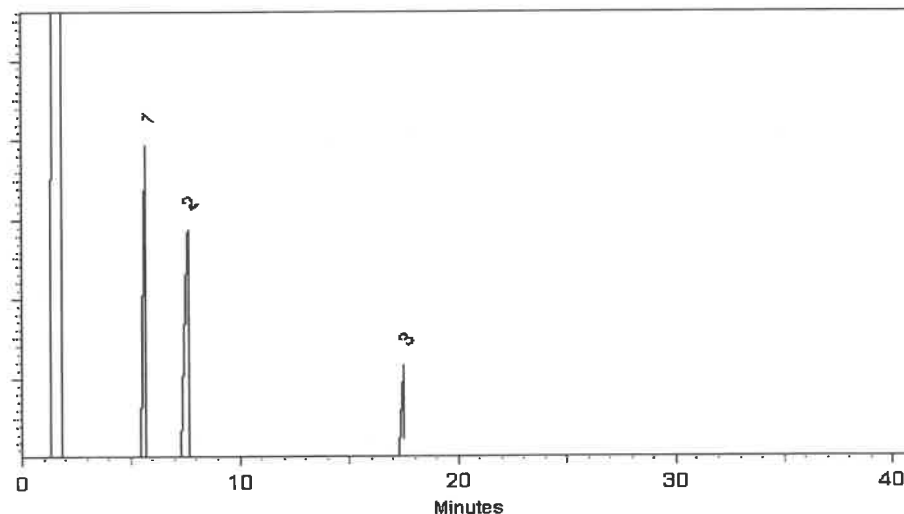
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

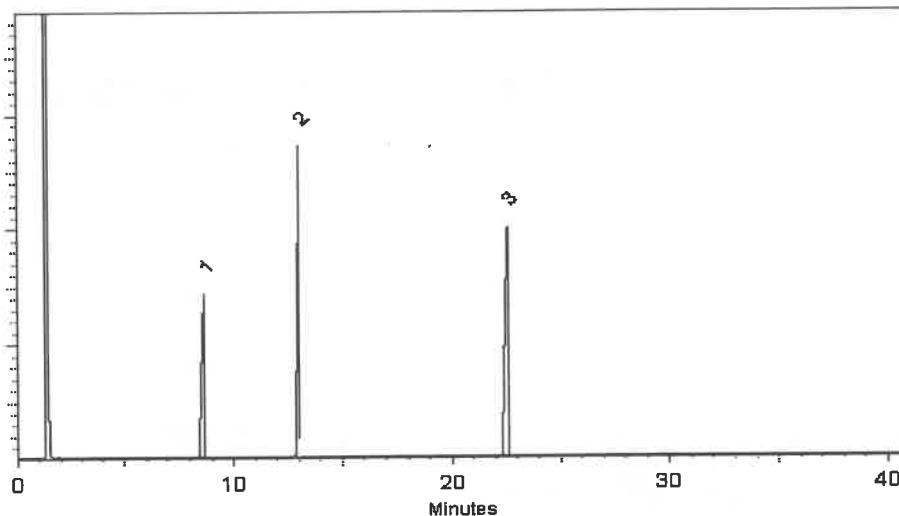
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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.

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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

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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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** 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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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 } RC
↓
S12579 } 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.)

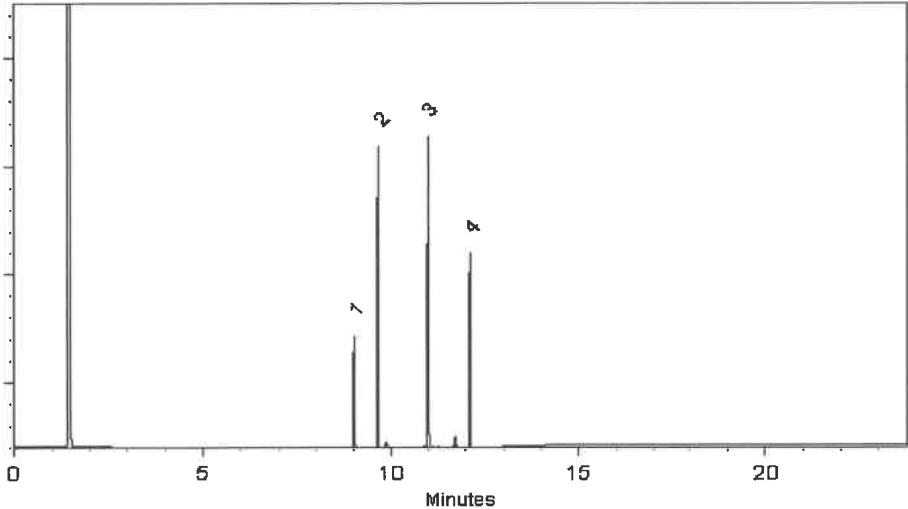
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

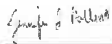
Inj. Vol
1µl



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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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



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Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~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.
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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.



SHIPPING DOCUMENTS

- 1
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CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY STATE: ZIP:

ATTENTION: Eleanor Vivandon

PHONE: FAX:

PROJECT NAME: NWIRP BETHPAGE

PROJECT NO.: 60731872 LOCATION: BETHPAGE

PROJECT MANAGER: Eleanor Vivandon

e-mail: Eleanor.Vivandon@aecom.com

PHONE: FAX:

BILL TO: Eleanor V. PO#:

ADDRESS: 27 Ellis Place

CITY OSSINING STATE: NY ZIP: 10563

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*

HARDCOPY (DATA PACKAGE): Standard DAYS*

EDD: Standard DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data ☐ Other

☐ EDD FORMAT

VOCS R260
2,4 dioxene 827050

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER
			COMP	GRAB	DATE	TIME		A	F								
1.	RW9-MW01D3-20250606	GW		X	06/06/25	0550	3	2	1								
2.	RW9-MW01S-20250606	GW		X	↓	1015	3	2	1								
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1215 06/06/25	RECEIVED BY: 1215 6-6-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.1 °C
1. [Signature]		1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1642 6-6-25	RECEIVED BY:	
3. [Signature]		3.	

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete
☐ YES ☐ NO

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 : Q2263	AECO15	Order Date : 6/6/2025 12:42:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only NYS ASP B
Client Contact : Eleanor Vivadou		Receive DateTime : 6/6/2025 12:00:00 AM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order : 1642	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2263-01	RW9-MW01D3-20250606	Water	06/06/2025	09:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2263-02	RW9-MW01D3-20250606 01S	Water	06/06/2025	10:15					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By : 
Date / Time : 6/9/25 0845

SAMPLES RECEIVED ON 6/6/25 @ 1642
PLACED IN SM-REF-2

Received By : 
Date / Time : 06/09/25 8.45

Storage Area : VOA Refridgerator Room

Pg 4

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037225.D
 Acq On : 13 Jun 2025 13:33
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration

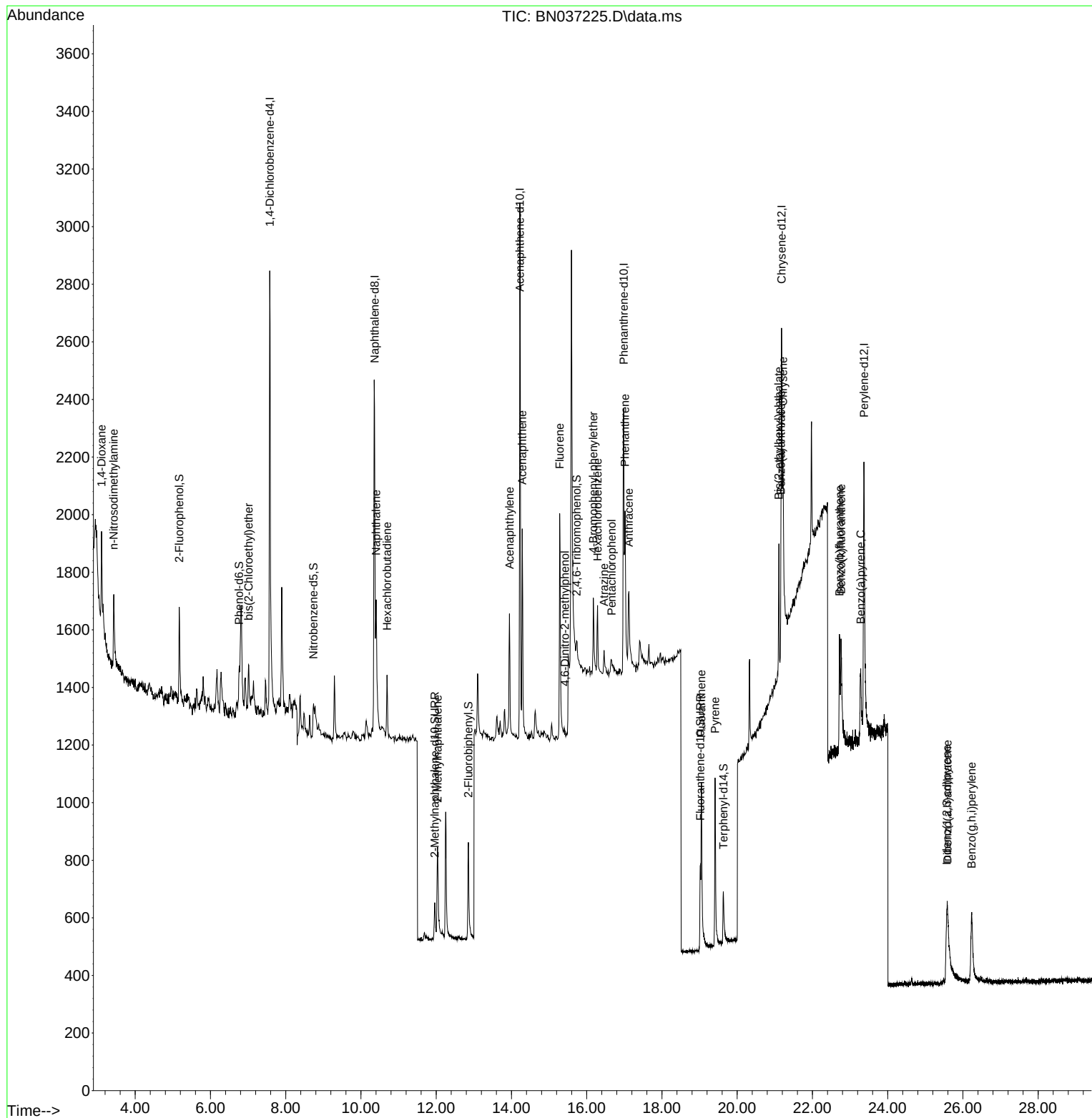
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	859	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	2097	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1114	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1916	0.400	ng	0.01
29) Chrysene-d12	21.180	240	1546	0.400	ng	# 0.00
35) Perylene-d12	23.368	264	1617	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	224	0.106	ng	0.00
5) Phenol-d6	6.759	99	188	0.085	ng	0.00
8) Nitrobenzene-d5	8.739	82	192	0.093	ng	0.01
11) 2-Methylnaphthalene-d10	11.960	152	260	0.092	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	35	0.076	ng	0.00
15) 2-Fluorobiphenyl	12.853	172	436	0.093	ng	0.00
27) Fluoranthene-d10	19.021	212	486	0.097	ng	0.00
31) Terphenyl-d14	19.635	244	315	0.090	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	145	0.123	ng	# 54
3) n-Nitrosodimethylamine	3.429	42	293	0.109	ng	# 97
6) bis(2-Chloroethyl)ether	7.012	93	165	0.083	ng	85
9) Naphthalene	10.404	128	622	0.102	ng	# 77
10) Hexachlorobutadiene	10.693	225	157	0.106	ng	# 95
12) 2-Methylnaphthalene	12.036	142	331	0.090	ng	# 93
16) Acenaphthylene	13.946	152	531	0.097	ng	95
17) Acenaphthene	14.288	154	346	0.098	ng	96
18) Fluorene	15.282	166	430	0.095	ng	100
20) 4,6-Dinitro-2-methylph...	15.421	198	15	0.146	ng	# 26
21) 4-Bromophenyl-phenylether	16.177	248	119	0.095	ng	91
22) Hexachlorobenzene	16.289	284	164	0.113	ng	96
23) Atrazine	16.462	200	107	0.096	ng	# 63
24) Pentachlorophenol	16.661	266	52	0.073	ng	# 82
25) Phenanthrene	17.021	178	600	0.099	ng	100
26) Anthracene	17.120	178	524	0.094	ng	100
28) Fluoranthene	19.049	202	704	0.099	ng	99
30) Pyrene	19.412	202	715	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	454	0.087	ng	# 79
33) Chrysene	21.215	228	689	0.106	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.108	149	432	0.111	ng	# 96
36) Indeno(1,2,3-cd)pyrene	25.570	276	609	0.093	ng	# 74
37) Benzo(b)fluoranthene	22.719	252	529	0.089	ng	# 41
38) Benzo(k)fluoranthene	22.760	252	488	0.072	ng	# 40
39) Benzo(a)pyrene	23.284	252	514	0.097	ng	# 23
40) Dibenzo(a,h)anthracene	25.590	278	313	0.064	ng	# 13
41) Benzo(g,h,i)perylene	26.228	276	608	0.101	ng	# 64

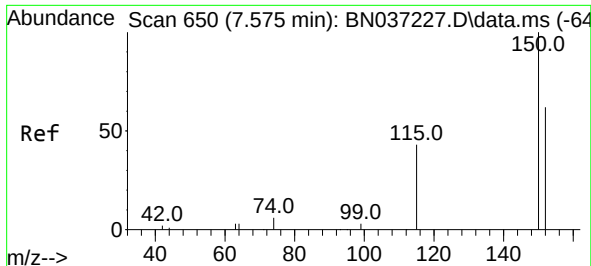
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 Data File : BN037225.D
 Acq On : 13 Jun 2025 13:33
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

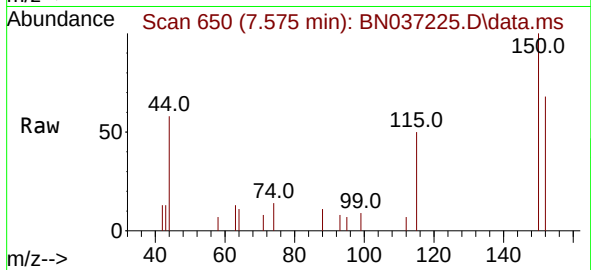
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:34:15 2025
 Response via : Initial Calibration



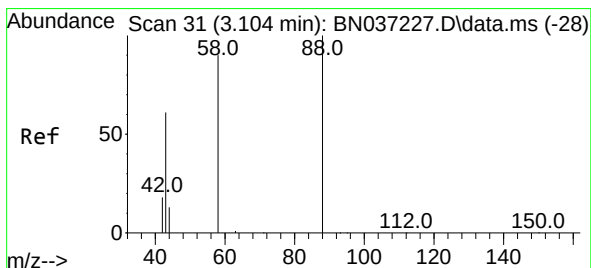
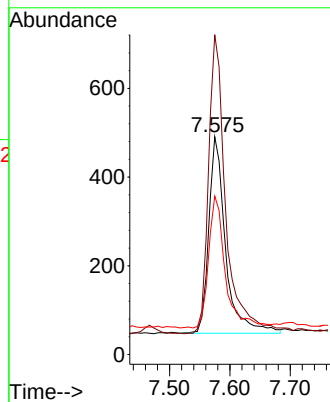
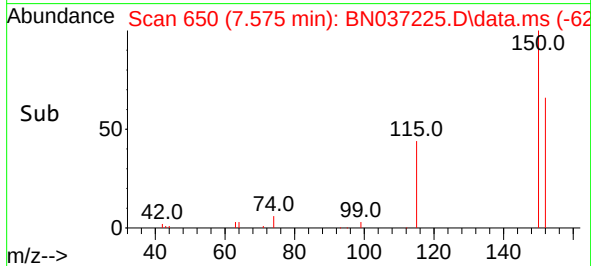


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

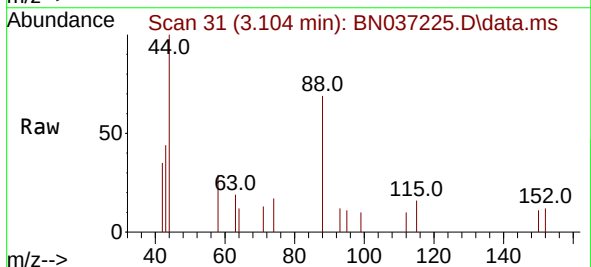
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



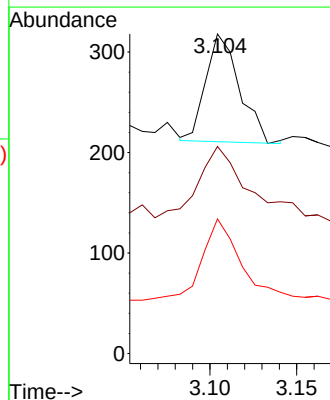
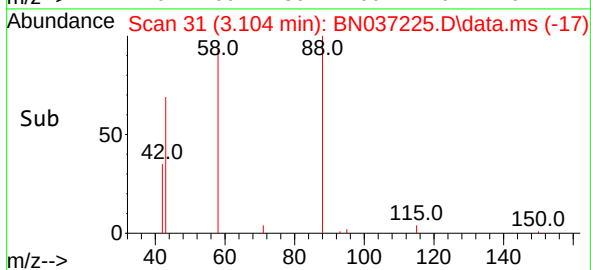
Tgt Ion:152 Resp: 859
 Ion Ratio Lower Upper
 152 100
 150 146.8 125.2 187.8
 115 72.7 58.4 87.6

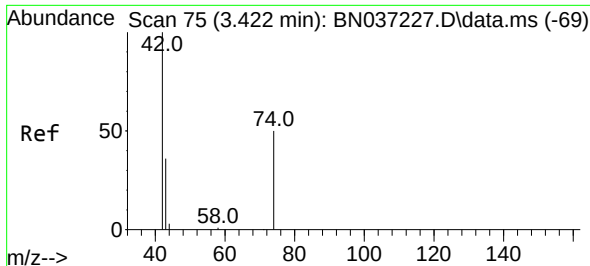


#2
 1,4-Dioxane
 Concen: 0.123 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33



Tgt Ion: 88 Resp: 145
 Ion Ratio Lower Upper
 88 100
 43 144.8 52.6 79.0#
 58 84.8 73.5 110.3

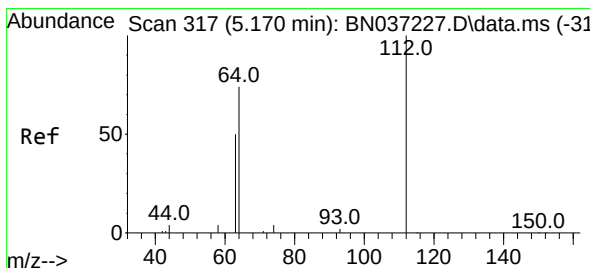
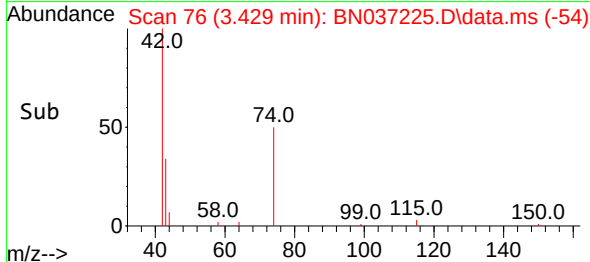
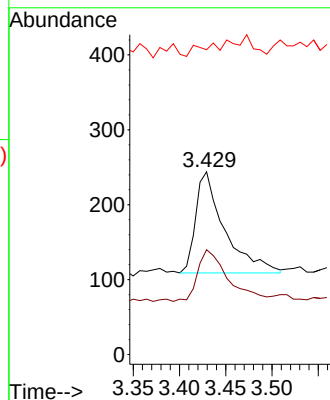
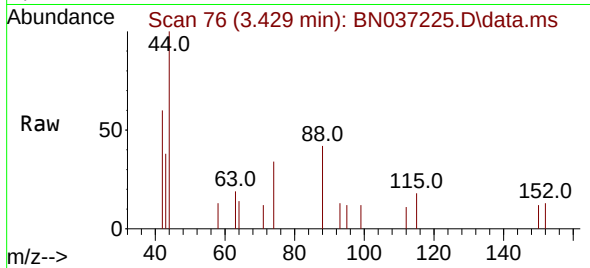




#3
 n-Nitrosodimethylamine
 Concen: 0.109 ng
 RT: 3.429 min Scan# 75
 Delta R.T. 0.007 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

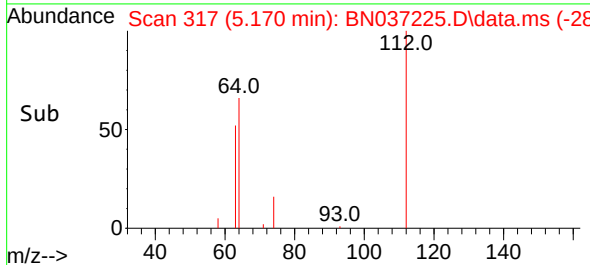
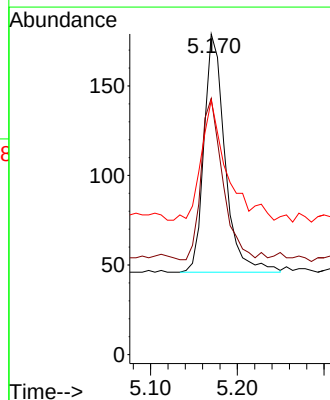
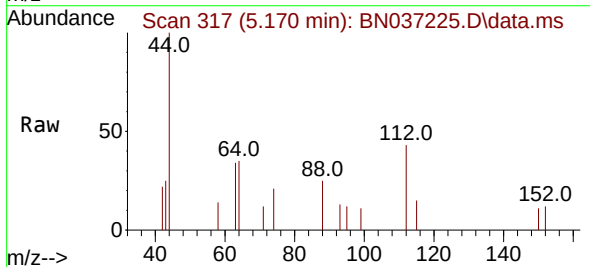
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

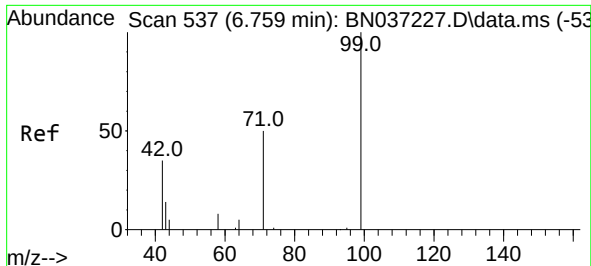
Tgt Ion: 42 Resp: 293
 Ion Ratio Lower Upper
 42 100
 74 53.6 44.6 66.8
 44 5.5 3.5 5.3#



#4
 2-Fluorophenol
 Concen: 0.106 ng
 RT: 5.170 min Scan# 317
 Delta R.T. 0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Tgt Ion: 112 Resp: 224
 Ion Ratio Lower Upper
 112 100
 64 69.2 57.2 85.8
 63 65.6 39.8 59.6#

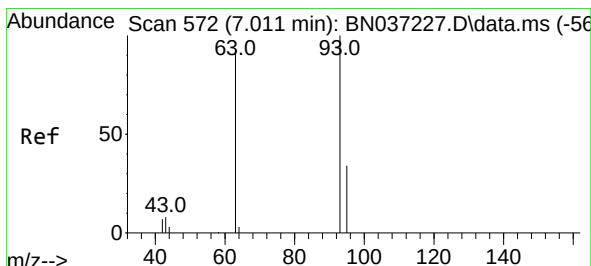
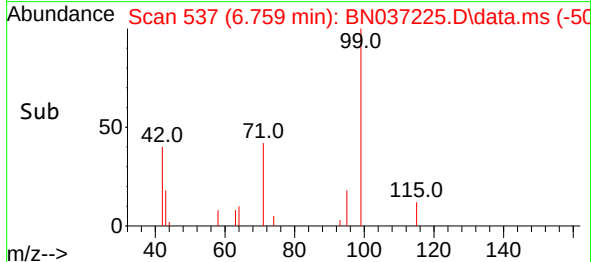
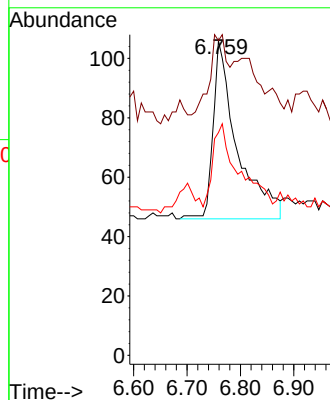
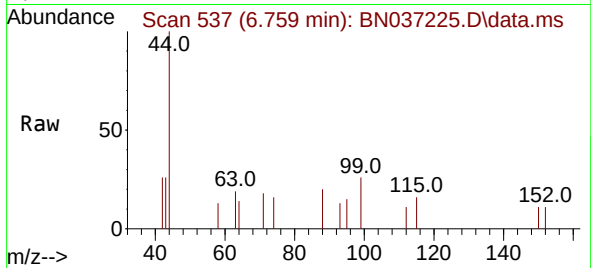




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

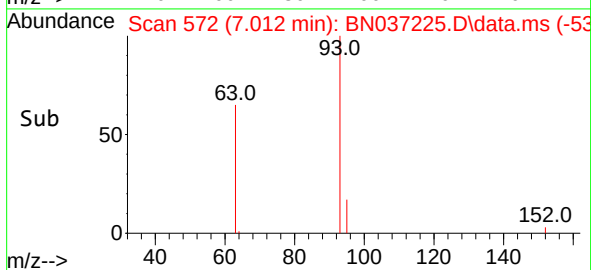
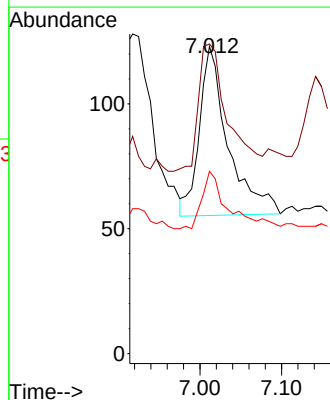
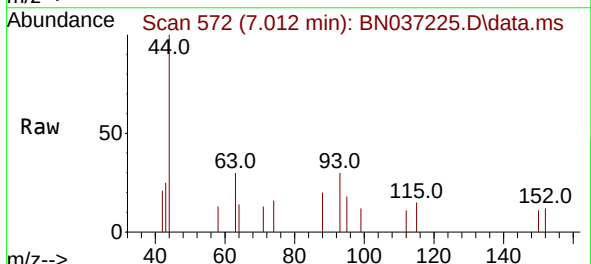
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

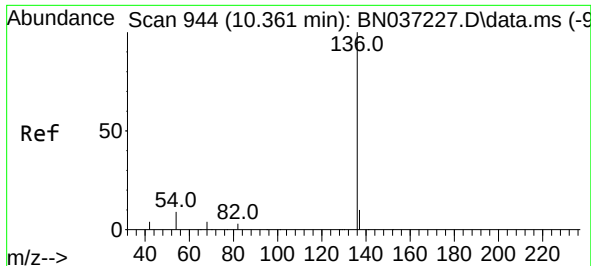
Tgt Ion: 99 Resp: 188
Ion Ratio Lower Upper
99 100
42 33.0 36.2 54.4#
71 51.1 42.4 63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.083 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion: 93 Resp: 165
Ion Ratio Lower Upper
93 100
63 76.4 75.2 112.8
95 30.9 28.3 42.5

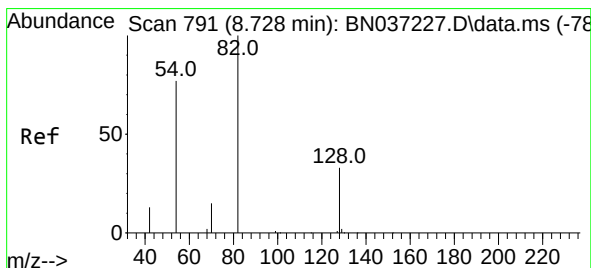
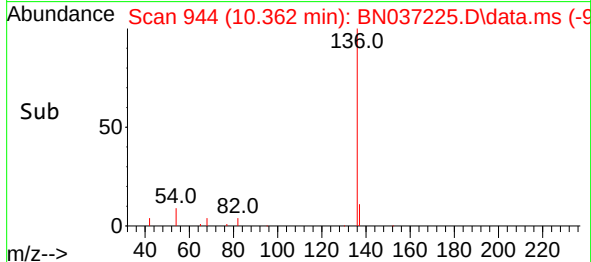
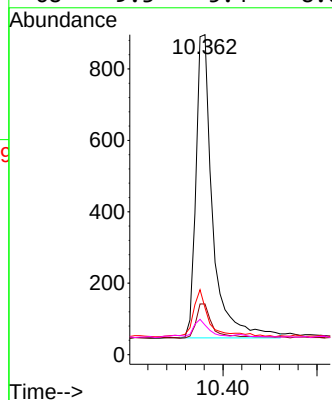
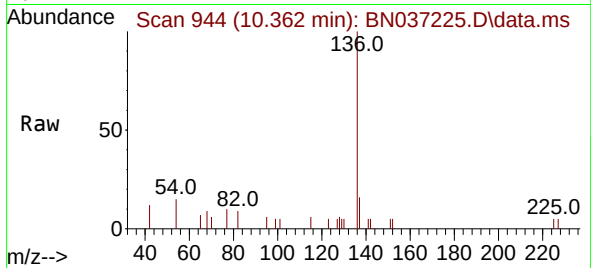




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

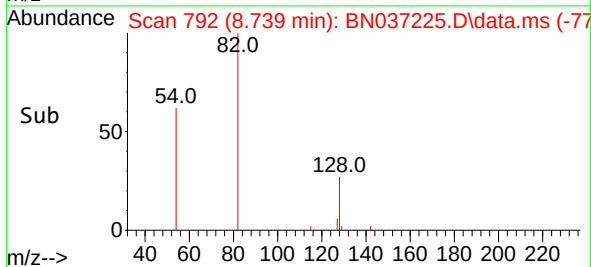
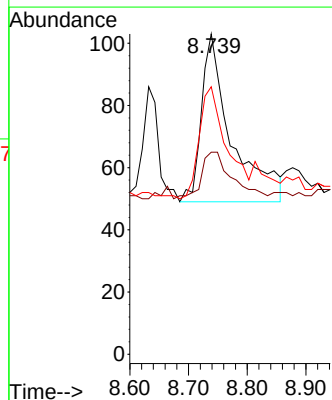
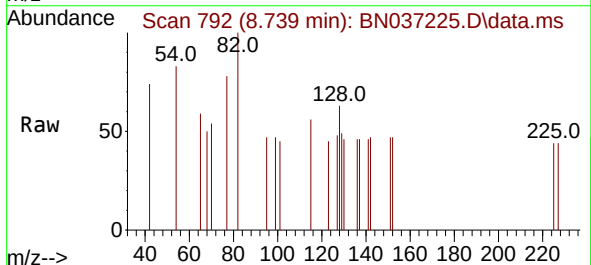
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

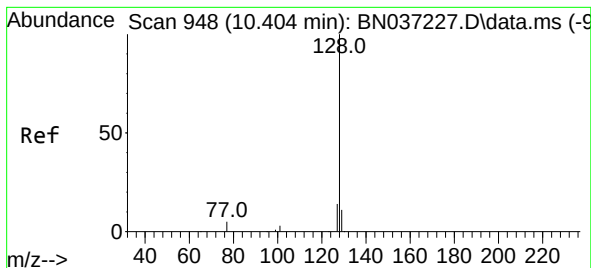
Tgt Ion:	136	Resp:	2097
Ion	Ratio	Lower	Upper
136	100		
137	15.8	10.6	15.8#
54	14.6	9.2	13.8#
68	9.3	5.4	8.0#



#8
Nitrobenzene-d5
Concen: 0.093 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:	82	Resp:	192
Ion	Ratio	Lower	Upper
82	100		
128	63.1	31.2	46.8#
54	83.5	63.3	94.9





#9

Naphthalene

Concen: 0.102 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

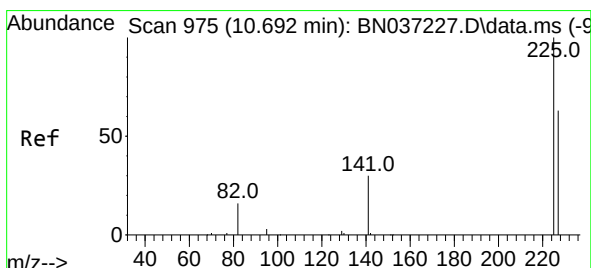
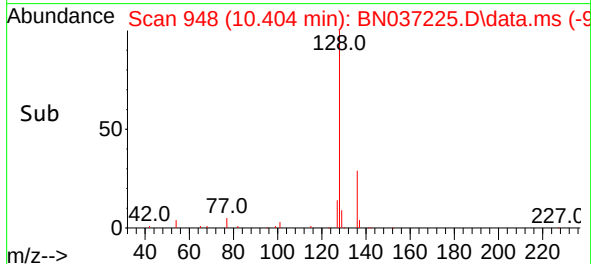
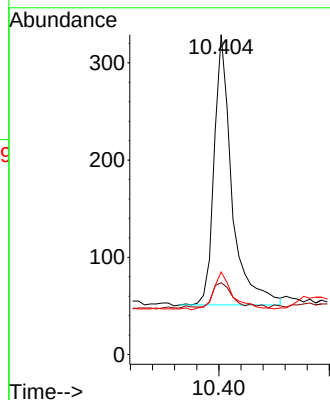
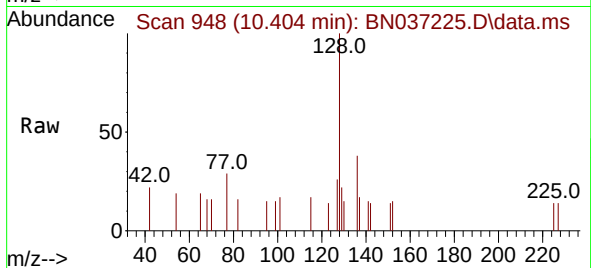
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:	128	Resp:	622
Ion	Ratio	Lower	Upper
128	100		
129	22.5	10.7	16.1#
127	25.8	12.6	19.0#



#10

Hexachlorobutadiene

Concen: 0.106 ng

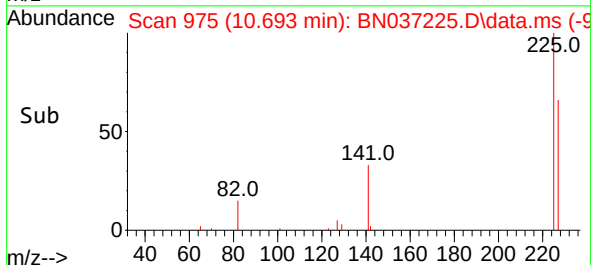
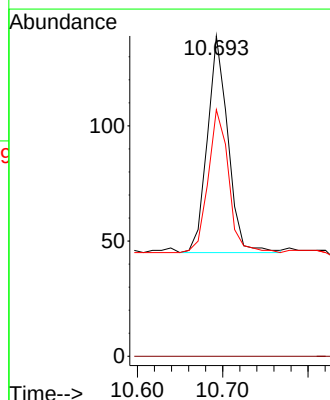
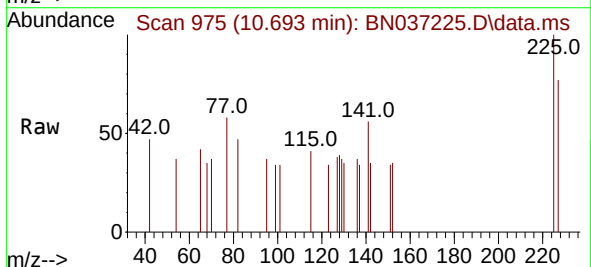
RT: 10.693 min Scan# 975

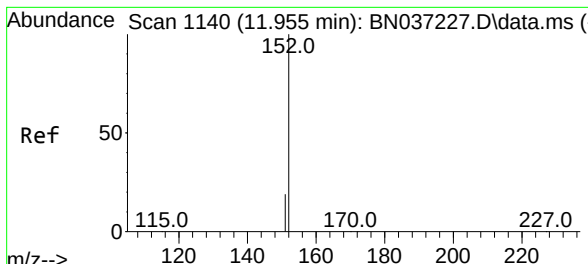
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:	225	Resp:	157
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.6	49.2	73.8

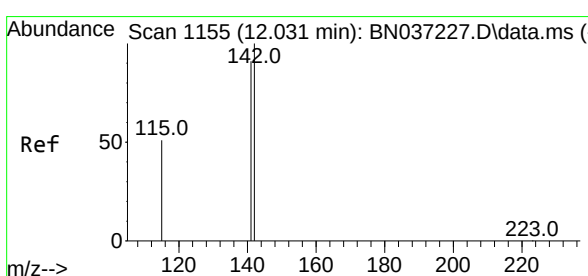
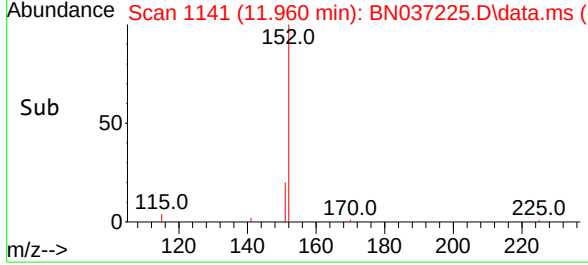
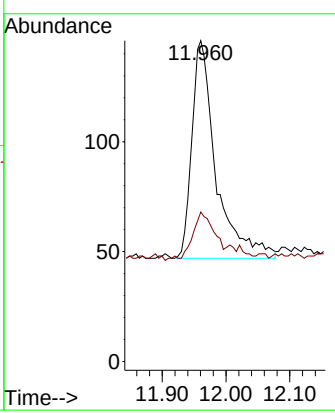
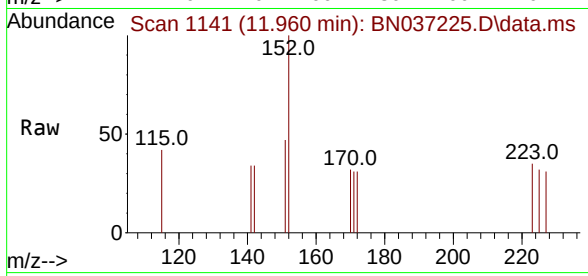




#11
 2-Methylnaphthalene-d10
 Concen: 0.092 ng
 RT: 11.960 min Scan# 1141
 Delta R.T. 0.005 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

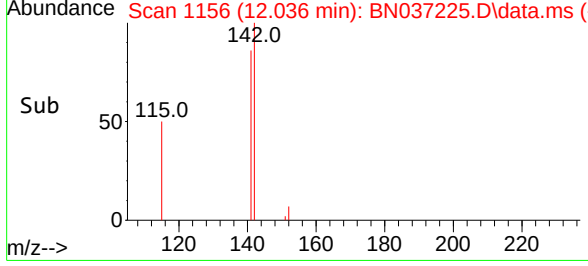
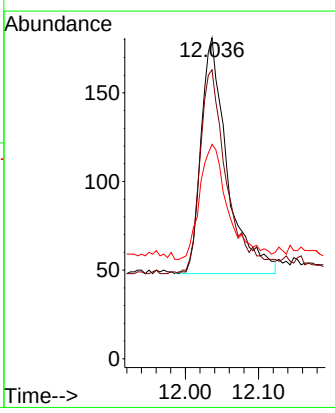
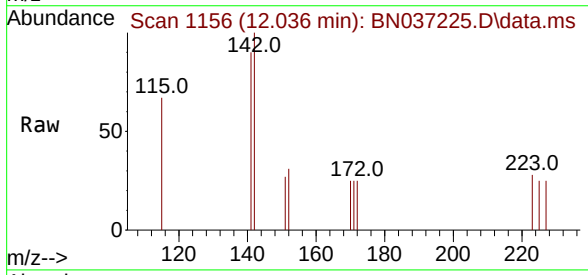
Instrument : BNA_N
 ClientSampleId : SSTDICC0.1

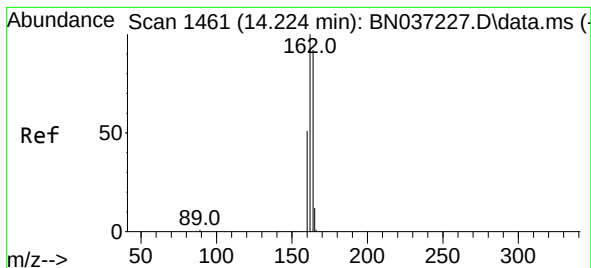
Tgt Ion:	152	Resp:	260
Ion Ratio	Lower	Upper	
152	100		
151	20.8	17.9	26.9



#12
 2-Methylnaphthalene
 Concen: 0.090 ng
 RT: 12.036 min Scan# 1156
 Delta R.T. 0.005 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Tgt Ion:	142	Resp:	331
Ion Ratio	Lower	Upper	
142	100		
141	90.1	73.0	109.6
115	66.9	43.3	64.9#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

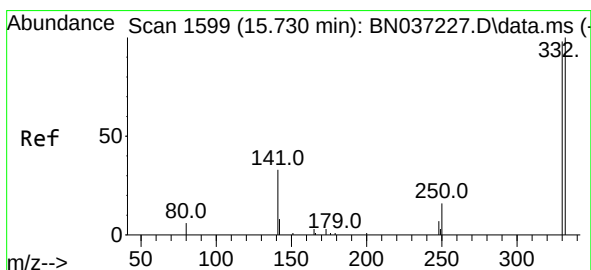
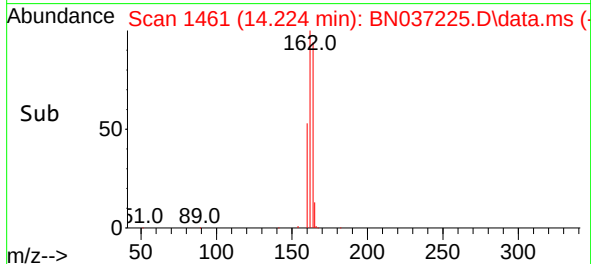
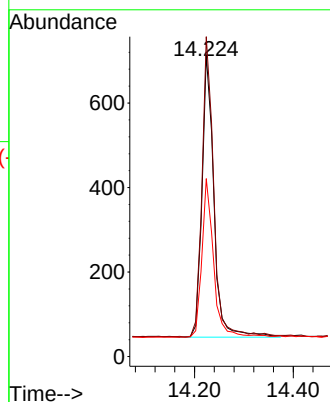
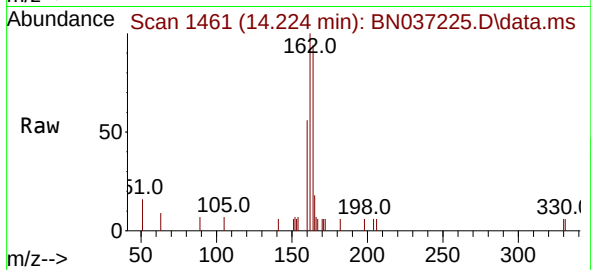
Tgt Ion:164 Resp: 1114

Ion Ratio Lower Upper

164 100

162 106.2 86.7 130.1

160 59.0 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.076 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

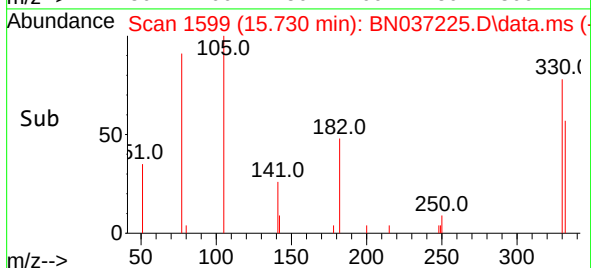
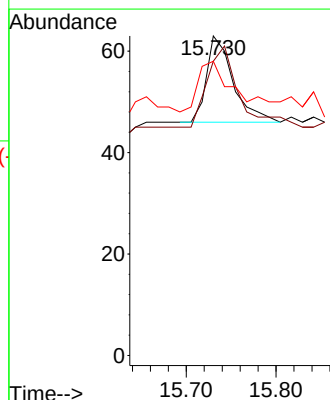
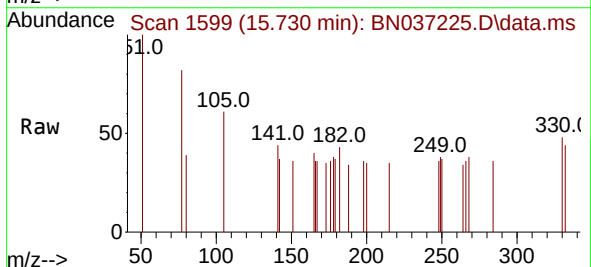
Tgt Ion:330 Resp: 35

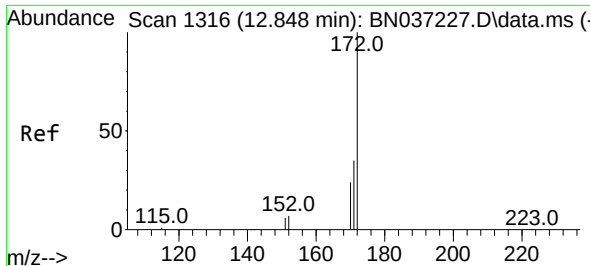
Ion Ratio Lower Upper

330 100

332 111.4 74.9 112.3

141 82.9 45.1 67.7#

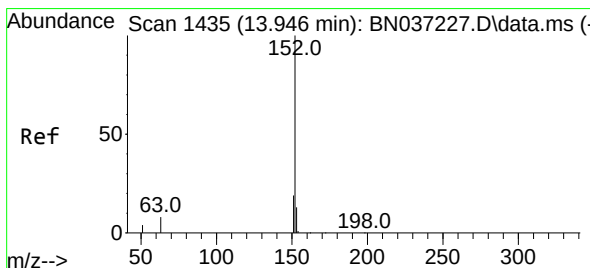
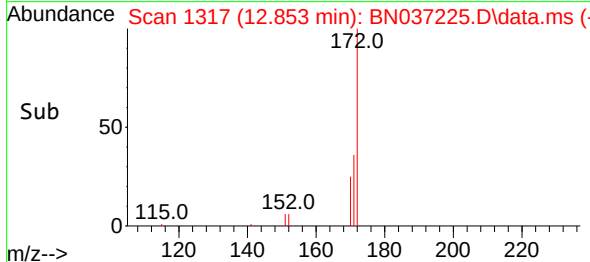
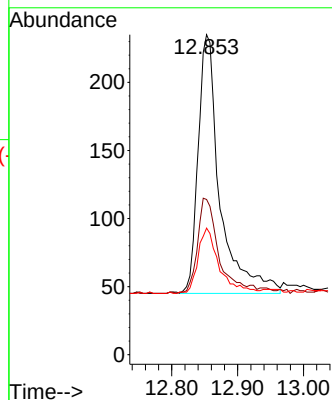
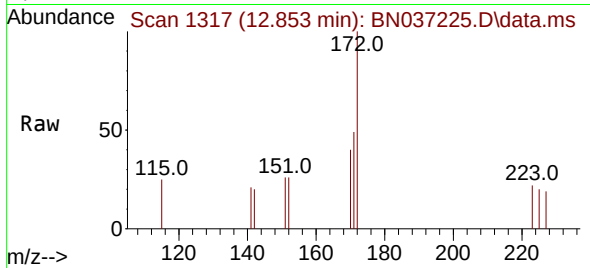




#15
2-Fluorobiphenyl
Concen: 0.093 ng
RT: 12.853 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

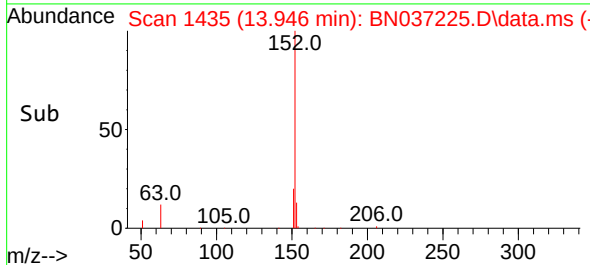
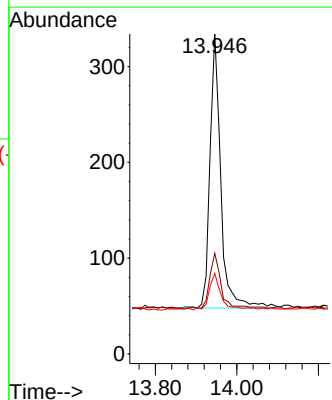
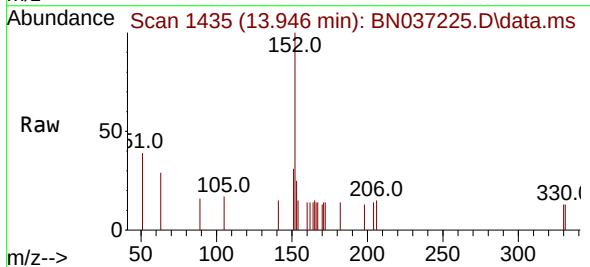
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

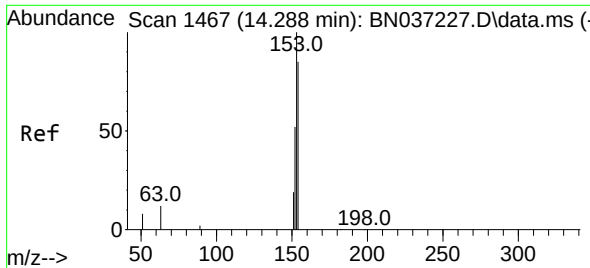
Tgt Ion:172 Resp: 436
Ion Ratio Lower Upper
172 100
171 48.5 29.8 44.8#
170 39.6 21.1 31.7#



#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 531
Ion Ratio Lower Upper
152 100
151 22.4 15.7 23.5
153 14.9 10.7 16.1

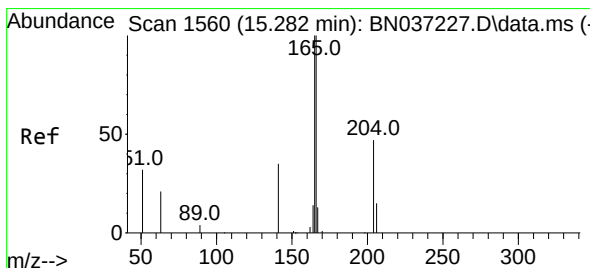
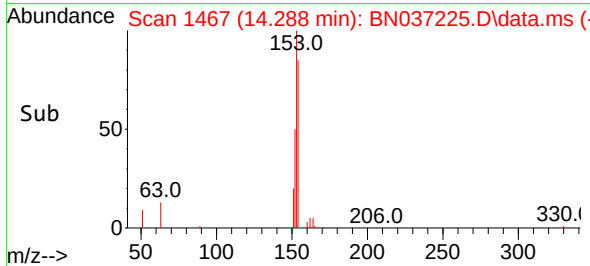
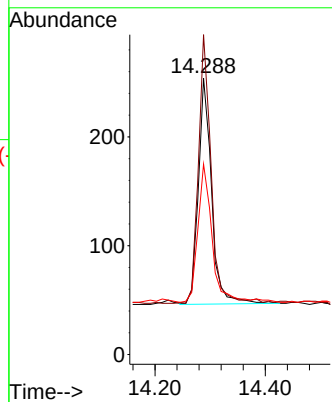
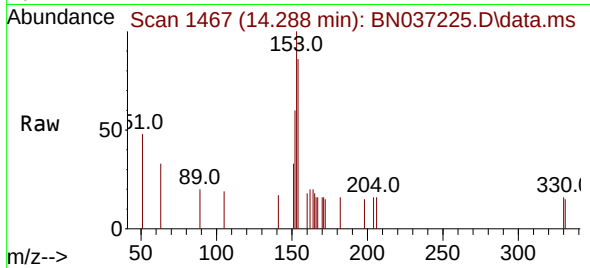




#17
Acenaphthene
Concen: 0.098 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

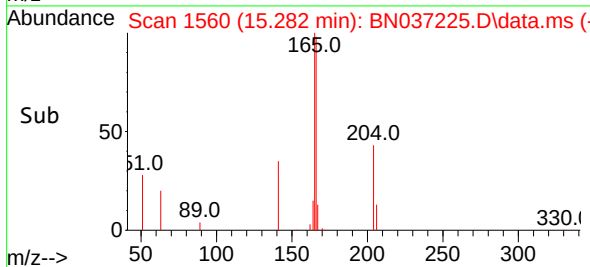
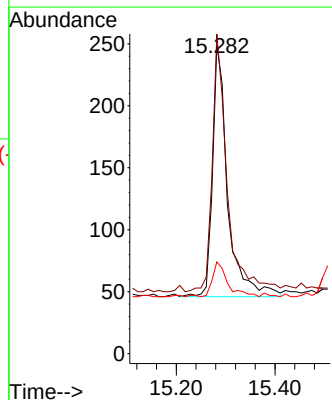
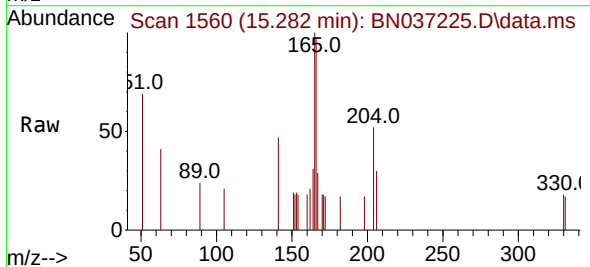
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

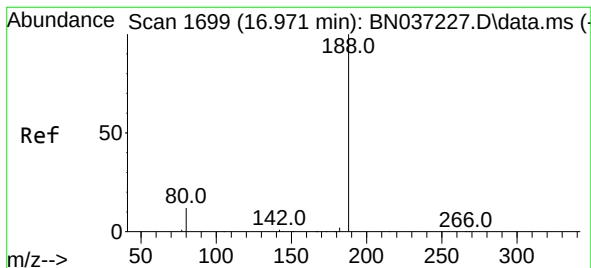
Tgt Ion:154 Resp: 346
Ion Ratio Lower Upper
154 100
153 114.5 94.6 141.8
152 65.9 49.6 74.4



#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:166 Resp: 430
Ion Ratio Lower Upper
166 100
165 99.3 79.8 119.6
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

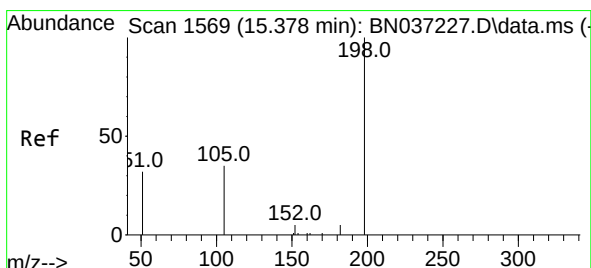
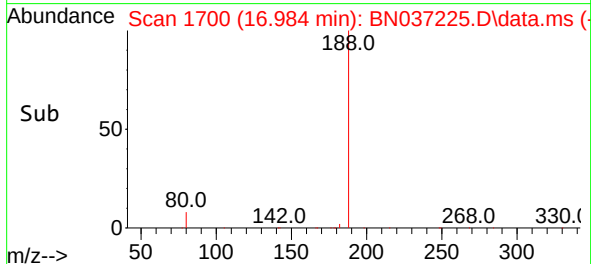
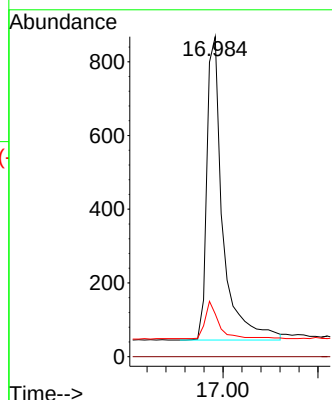
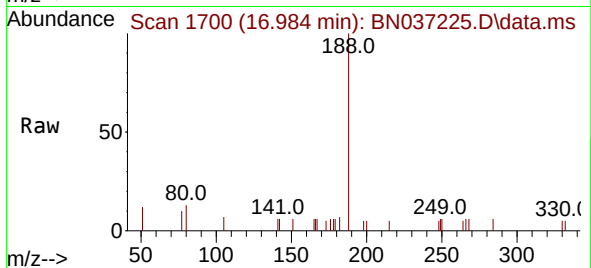
Tgt Ion:188 Resp: 1916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.146 ng

RT: 15.421 min Scan# 1573

Delta R.T. 0.043 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

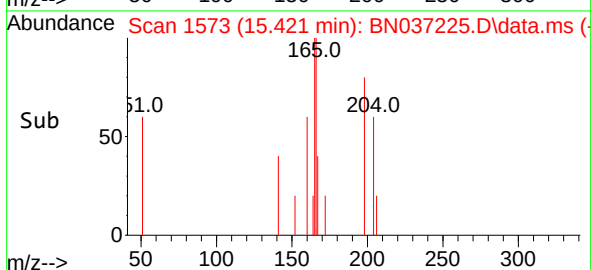
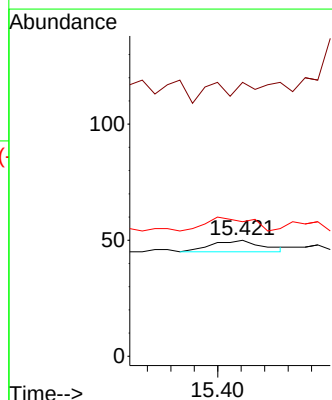
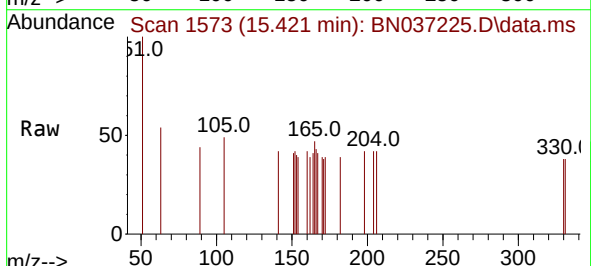
Tgt Ion:198 Resp: 15

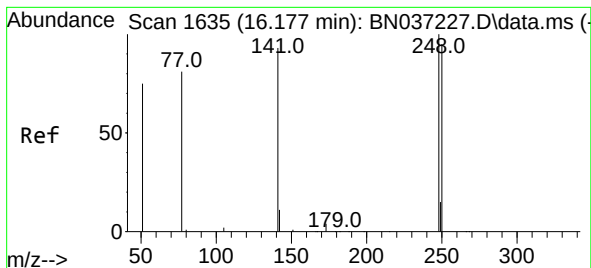
Ion Ratio Lower Upper

198 100

51 236.0 111.2 166.8#

105 116.0 54.0 81.0#

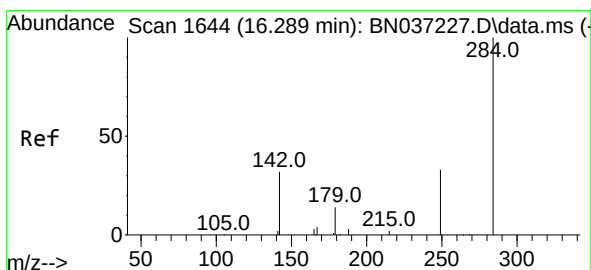
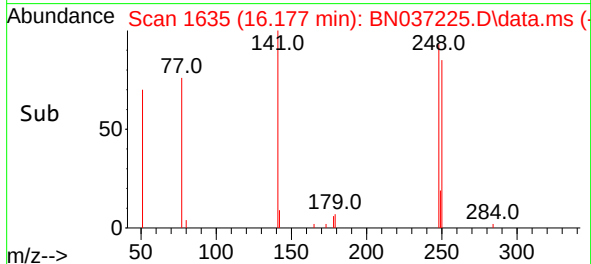
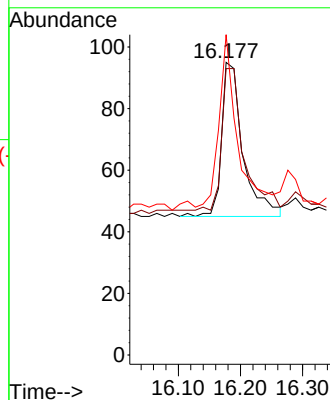
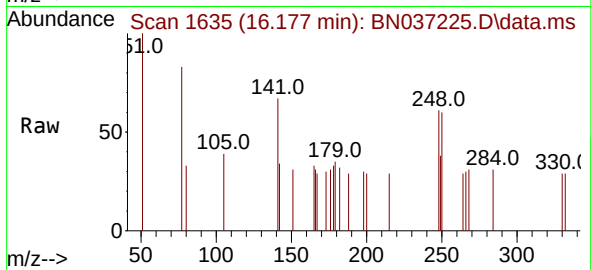




#21
4-Bromophenyl-phenylether
Concen: 0.095 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

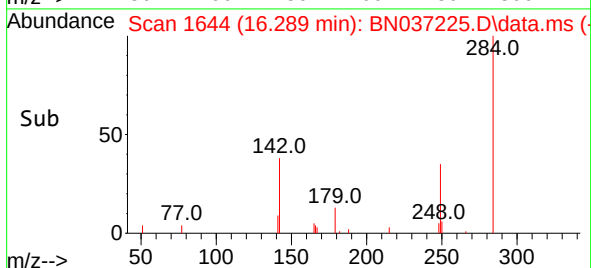
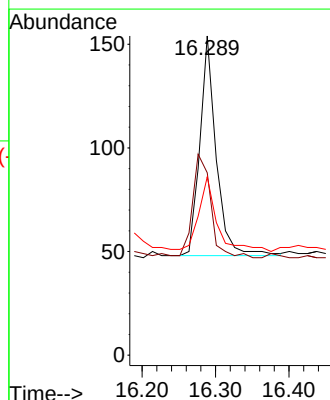
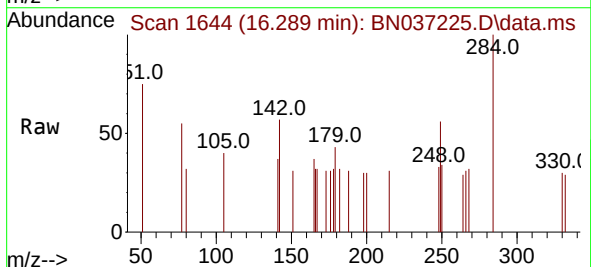
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

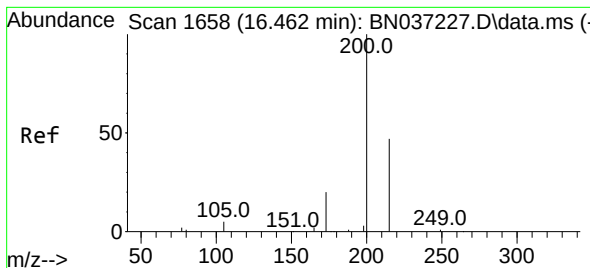
Tgt Ion:248 Resp: 119
Ion Ratio Lower Upper
248 100
250 97.9 76.8 115.2
141 109.5 75.6 113.4



#22
Hexachlorobenzene
Concen: 0.113 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:284 Resp: 164
Ion Ratio Lower Upper
284 100
142 52.4 43.8 65.6
249 38.4 28.4 42.6





#23

Atrazine

Concen: 0.096 ng

RT: 16.462 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

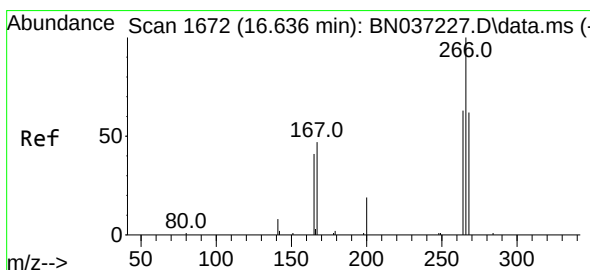
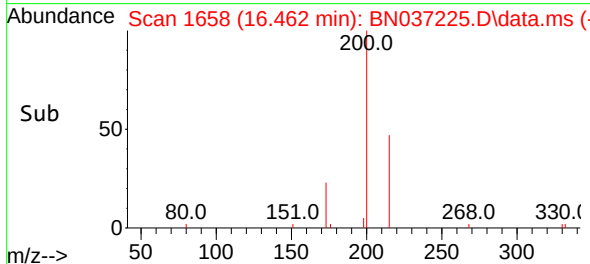
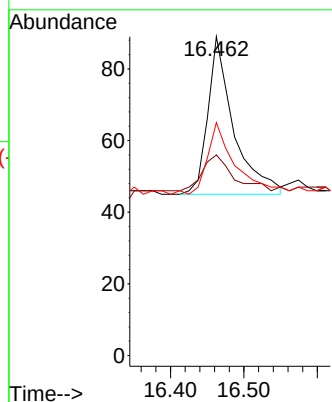
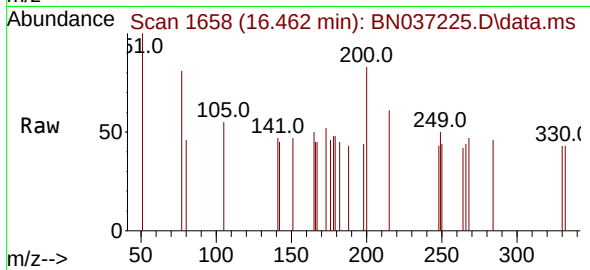
Tgt Ion:200 Resp: 107

Ion Ratio Lower Upper

200 100

173 62.9 25.1 37.7#

215 73.0 43.7 65.5#



#24

Pentachlorophenol

Concen: 0.073 ng

RT: 16.661 min Scan# 1674

Delta R.T. 0.025 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

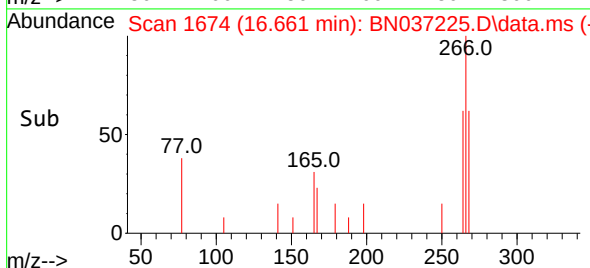
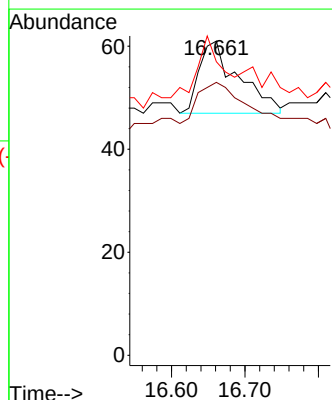
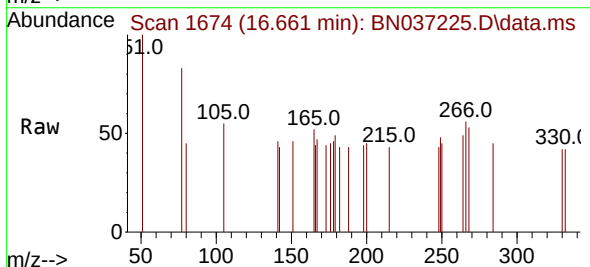
Tgt Ion:266 Resp: 52

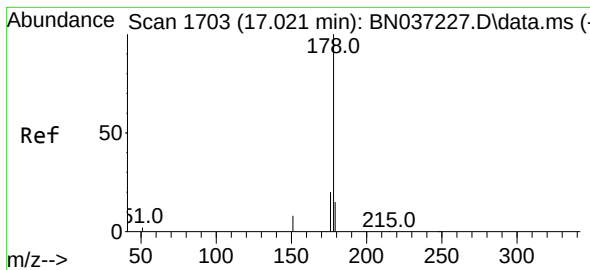
Ion Ratio Lower Upper

266 100

264 73.1 49.2 73.8

268 82.7 53.4 80.2#

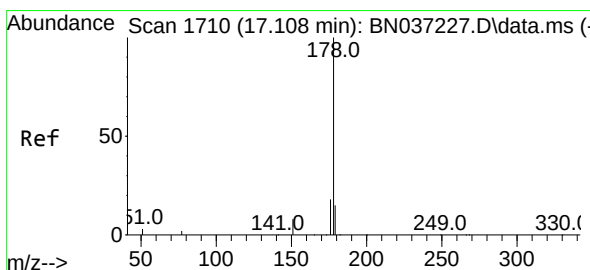
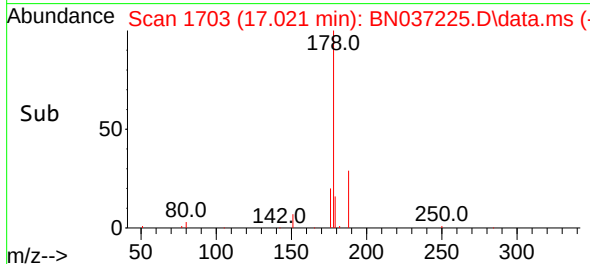
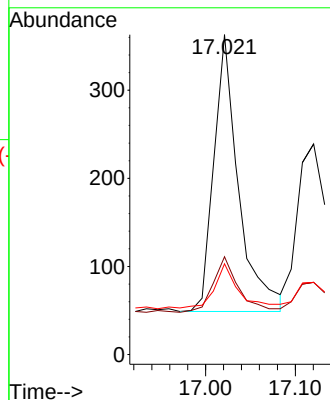
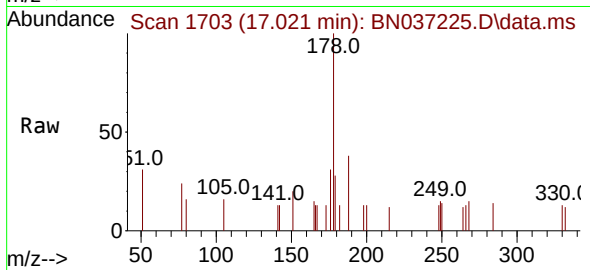




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

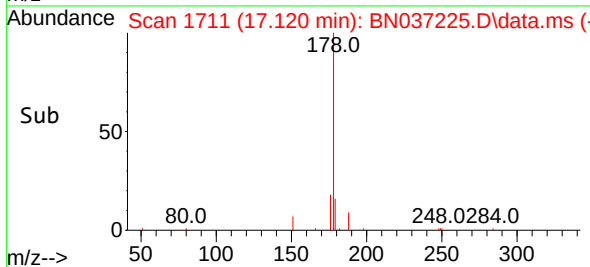
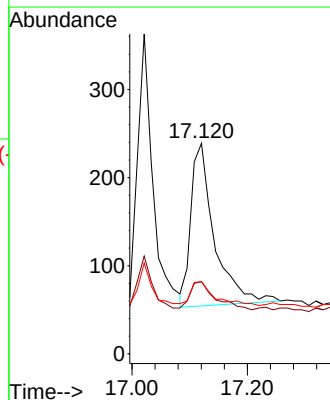
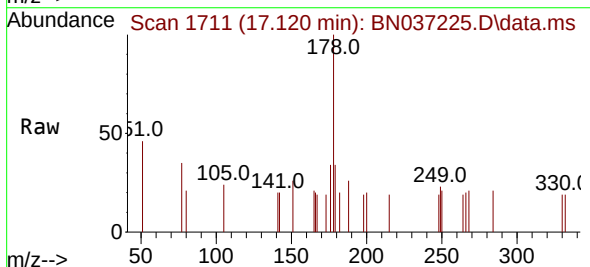
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

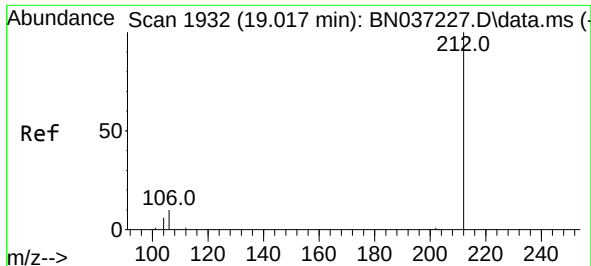
Tgt Ion:	178	Resp:	600
Ion Ratio	Lower	Upper	
178	100		
176	20.3	16.3	24.5
179	15.8	12.6	18.8



#26
Anthracene
Concen: 0.094 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.013 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:	178	Resp:	524
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.1	22.7
179	15.1	12.4	18.6

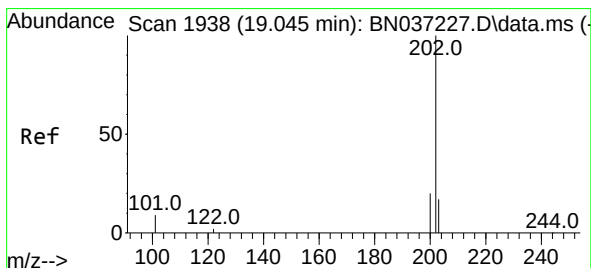
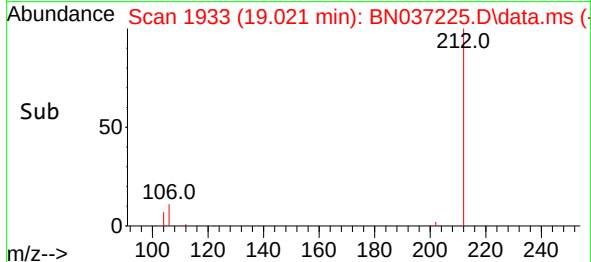
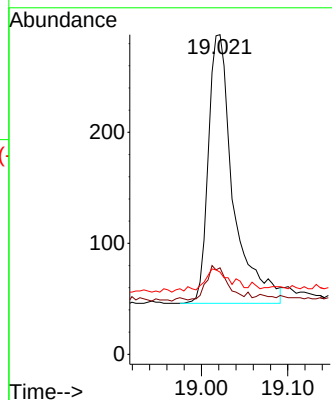
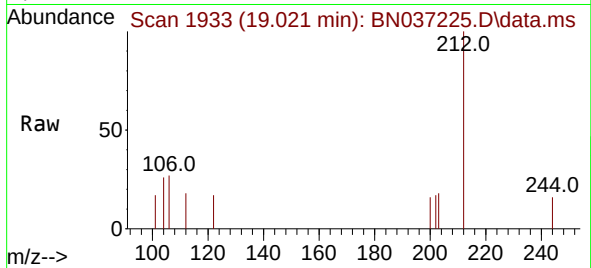




#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.021 min Scan# 1933
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

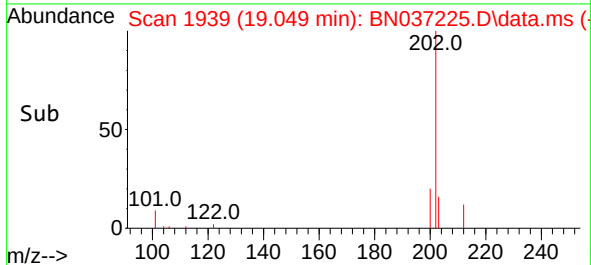
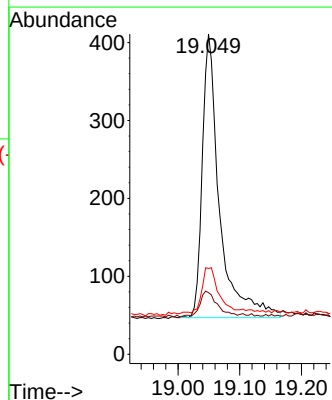
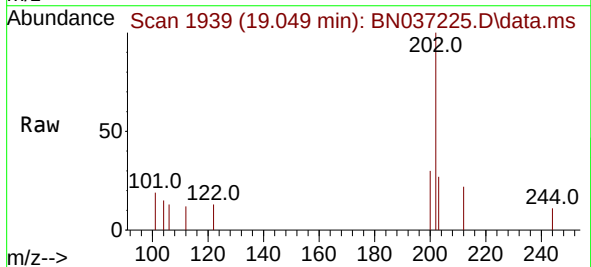
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

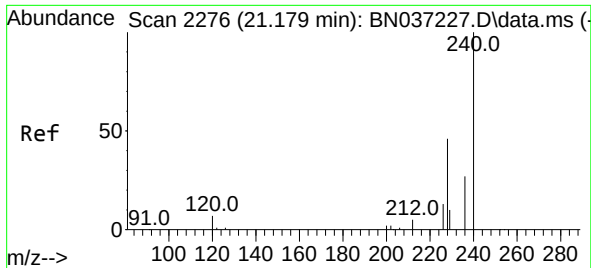
Tgt Ion:212 Resp: 486
Ion Ratio Lower Upper
212 100
106 10.5 9.3 13.9
104 9.7 5.7 8.5#



#28
Fluoranthene
Concen: 0.099 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.005 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 704
Ion Ratio Lower Upper
202 100
101 9.1 7.1 10.7
203 15.9 13.0 19.6

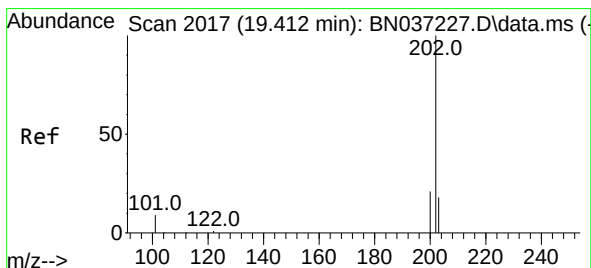
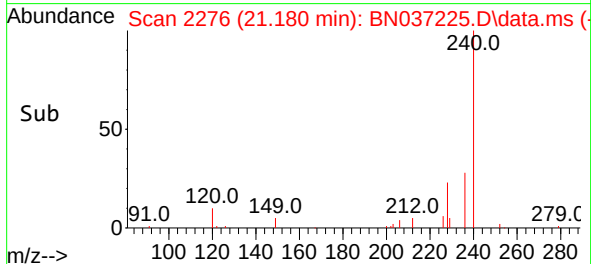
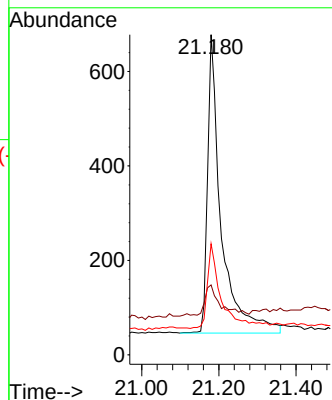
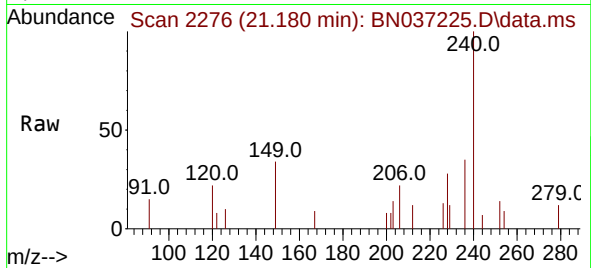




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

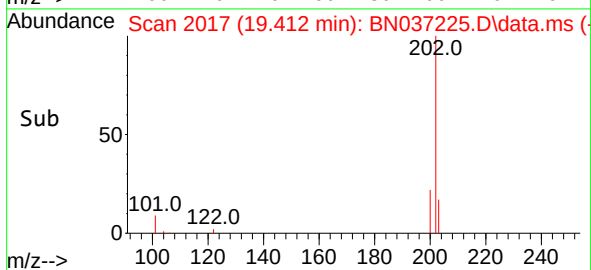
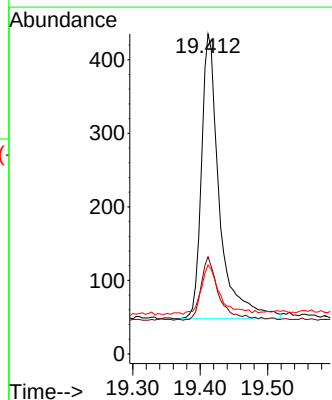
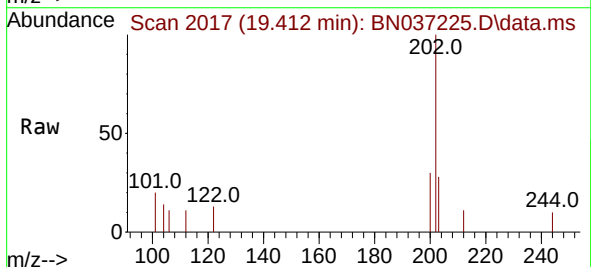
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

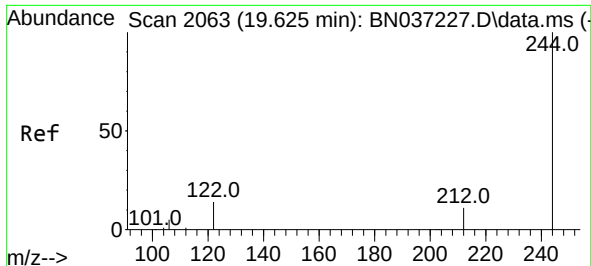
Tgt Ion:240 Resp: 1546
Ion Ratio Lower Upper
240 100
120 21.8 11.3 16.9#
236 34.7 24.4 36.6



#30
Pyrene
Concen: 0.098 ng
RT: 19.412 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 715
Ion Ratio Lower Upper
202 100
200 21.8 17.2 25.8
203 18.0 14.3 21.5

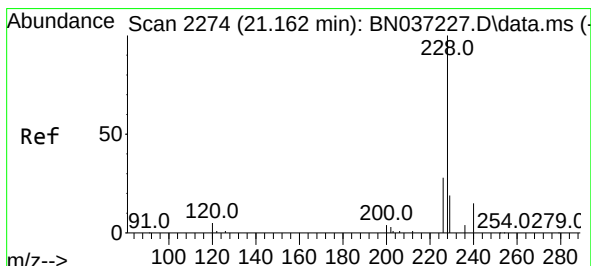
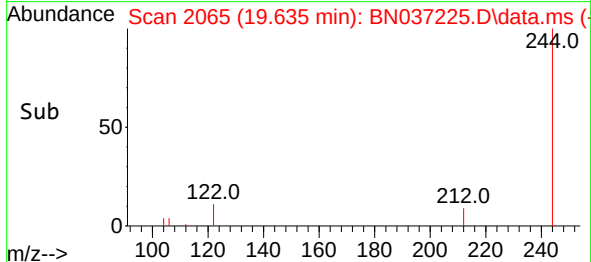
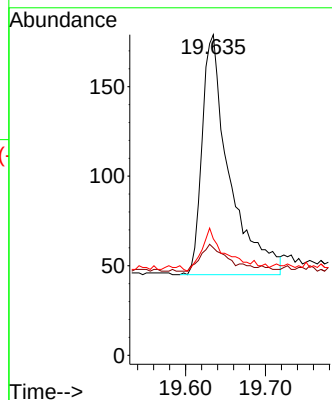
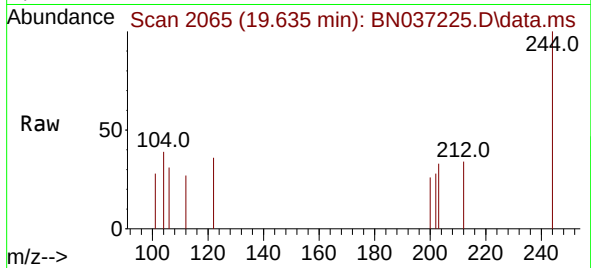




#31
 Terphenyl-d14
 Concen: 0.090 ng
 RT: 19.635 min Scan# 2065
 Delta R.T. 0.009 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

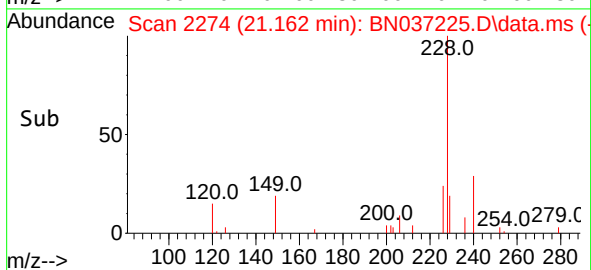
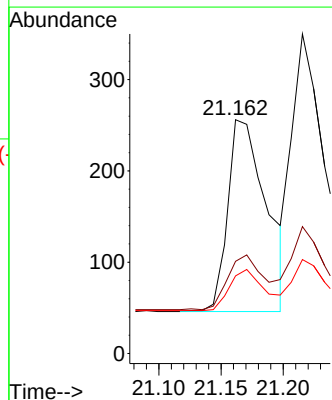
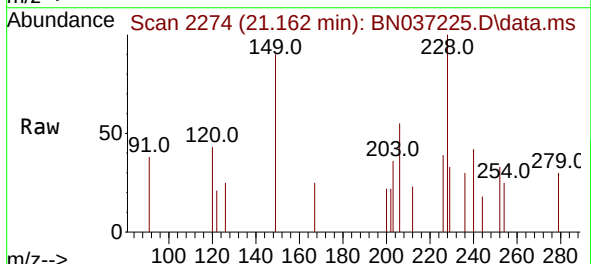
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

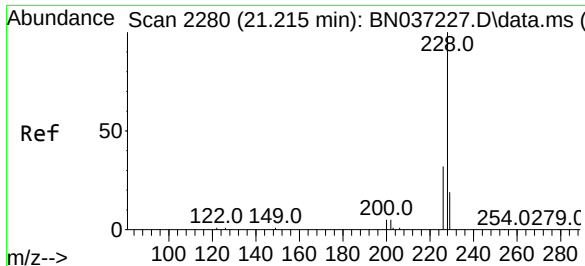
Tgt Ion:244 Resp: 315
 Ion Ratio Lower Upper
 244 100
 212 33.5 12.2 18.2#
 122 36.3 14.3 21.5#



#32
 Benzo(a)anthracene
 Concen: 0.087 ng
 RT: 21.162 min Scan# 2274
 Delta R.T. 0.000 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454
 Ion Ratio Lower Upper
 228 100
 226 39.5 23.8 35.8#
 229 33.2 17.0 25.4#

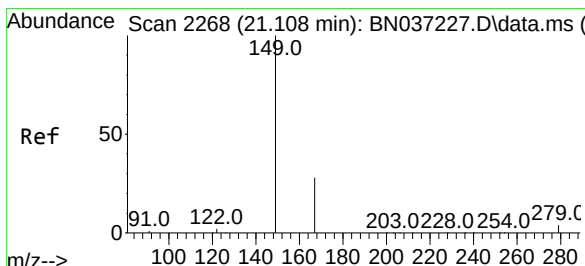
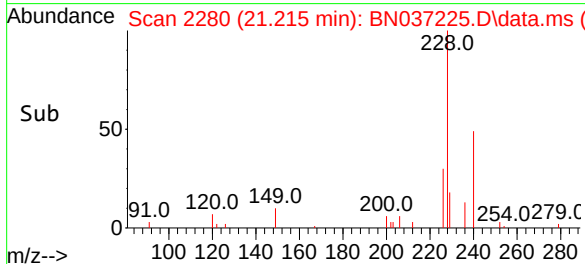
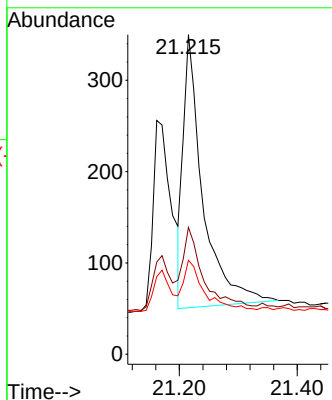
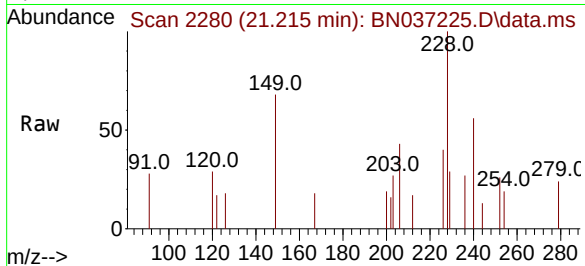




#33
Chrysene
Concen: 0.106 ng
RT: 21.215 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

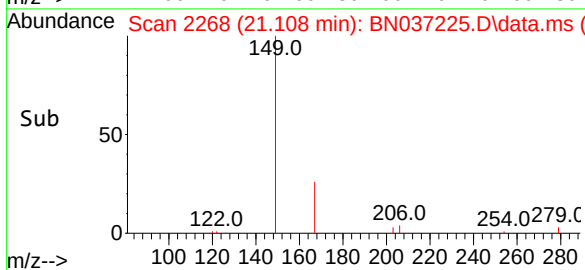
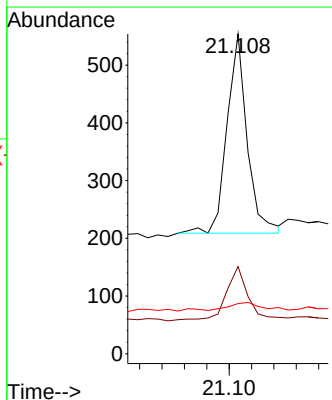
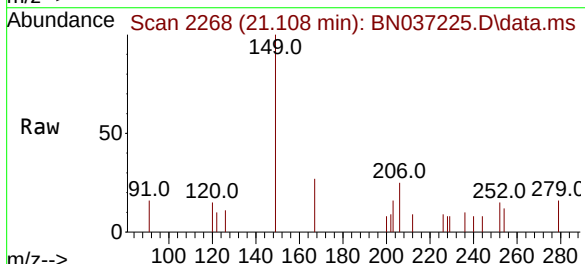
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

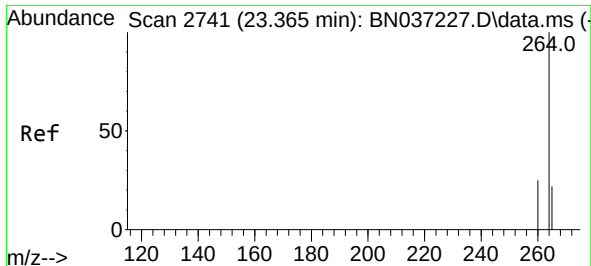
Tgt Ion:228 Resp: 689
Ion Ratio Lower Upper
228 100
226 39.7 25.8 38.6#
229 29.4 17.0 25.4#



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.111 ng
RT: 21.108 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

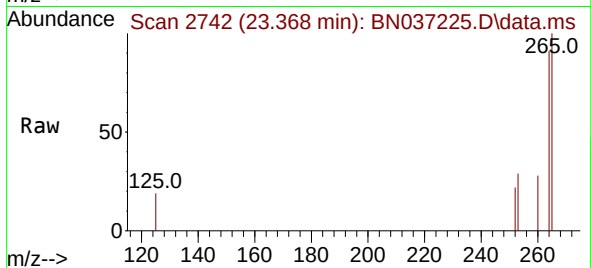
Tgt Ion:149 Resp: 432
Ion Ratio Lower Upper
149 100
167 27.8 21.3 31.9
279 8.3 3.3 4.9#



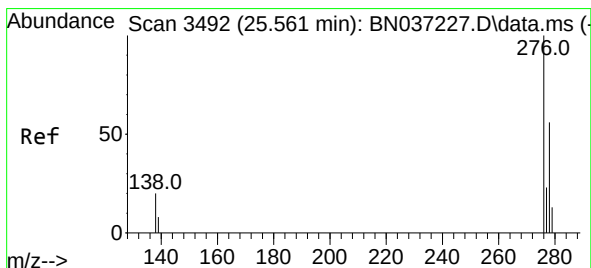
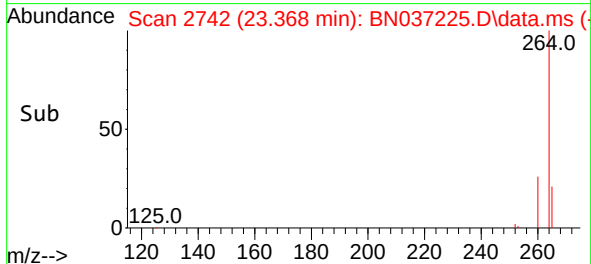
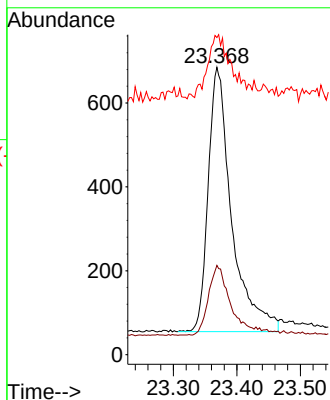


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.368 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

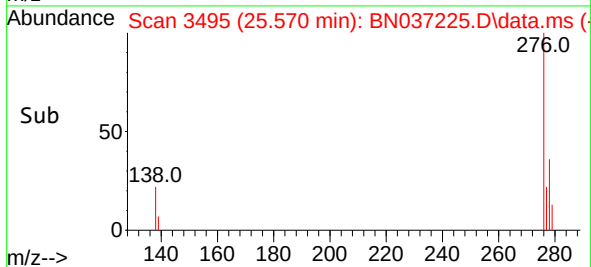
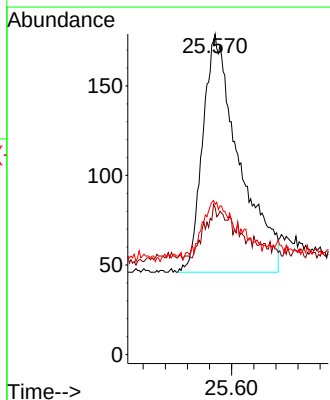
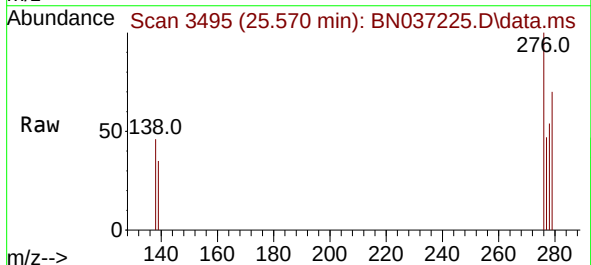


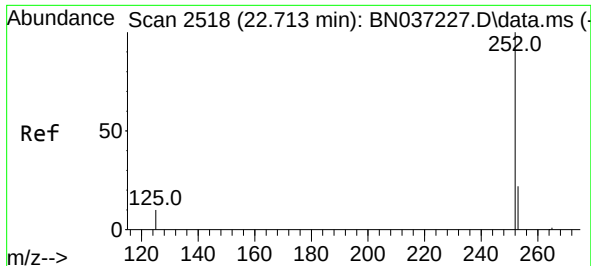
Tgt Ion:264 Resp: 1617
Ion Ratio Lower Upper
264 100
260 31.1 22.8 34.2
265 110.4 66.4 99.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.570 min Scan# 3495
Delta R.T. 0.009 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

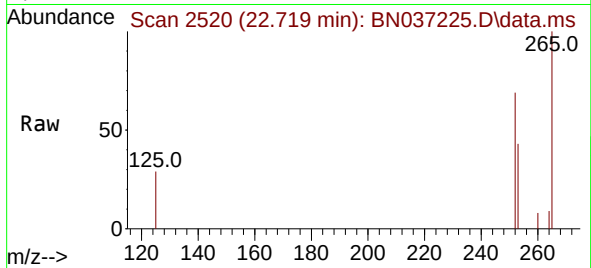
Tgt Ion:276 Resp: 609
Ion Ratio Lower Upper
276 100
138 1.3 16.8 25.2#
277 18.6 19.5 29.3#



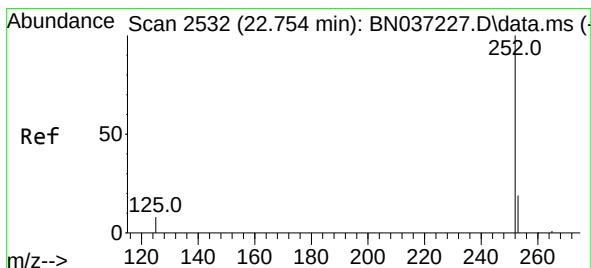
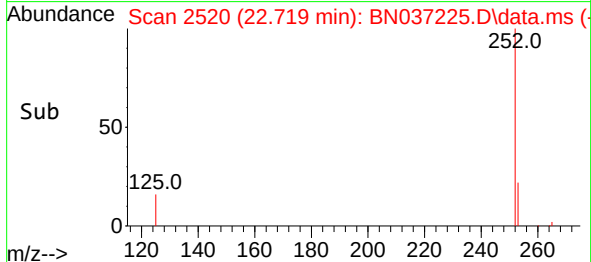
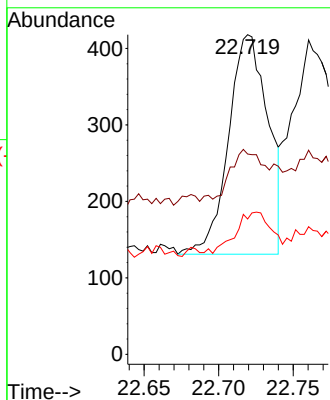


#37
Benzo(b)fluoranthene
Concen: 0.089 ng
RT: 22.719 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

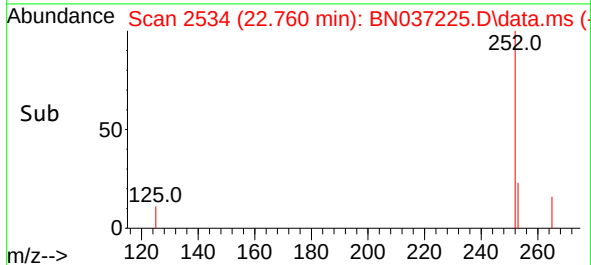
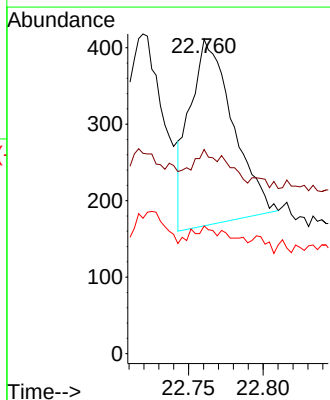
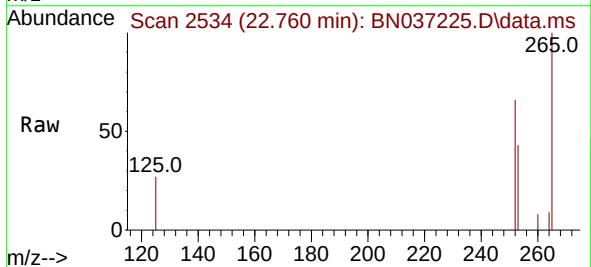


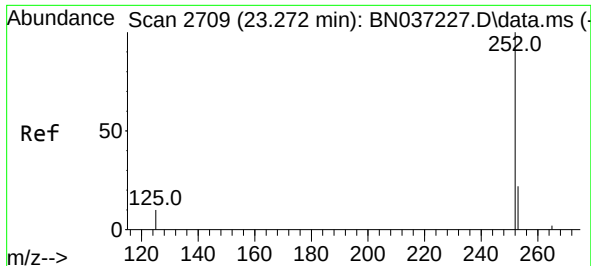
Tgt Ion:252 Resp: 529
Ion Ratio Lower Upper
252 100
253 62.7 24.9 37.3#
125 42.3 12.9 19.3#



#38
Benzo(k)fluoranthene
Concen: 0.072 ng
RT: 22.760 min Scan# 2534
Delta R.T. 0.006 min
Lab File: BN037225.D
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 488
Ion Ratio Lower Upper
252 100
253 65.0 24.6 37.0#
125 40.6 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

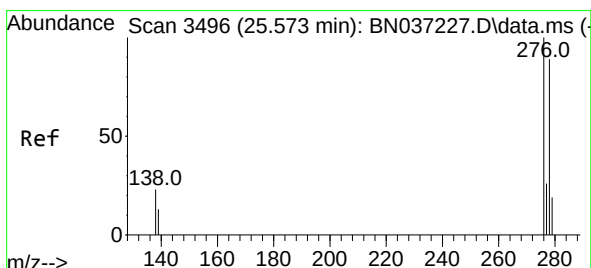
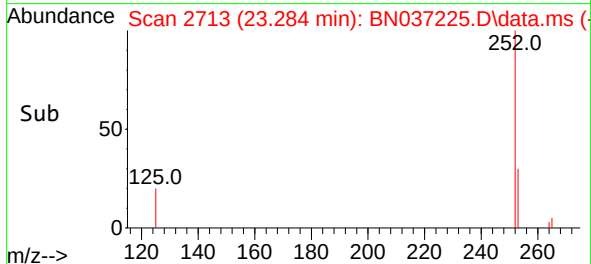
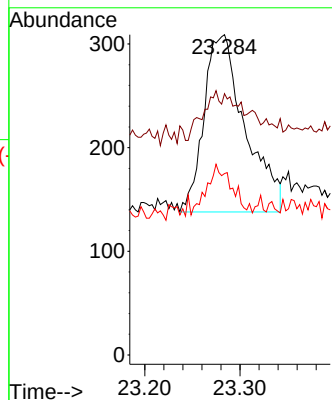
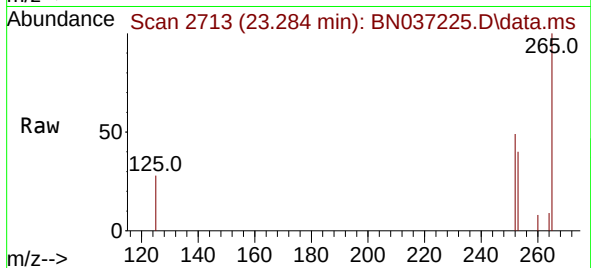
Tgt Ion:252 Resp: 514

Ion Ratio Lower Upper

252 100

253 81.6 29.4 44.2#

125 56.6 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.064 ng

RT: 25.590 min Scan# 3502

Delta R.T. 0.018 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

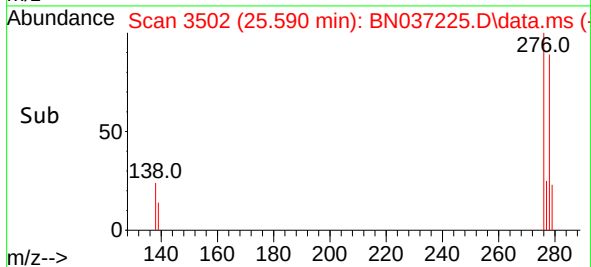
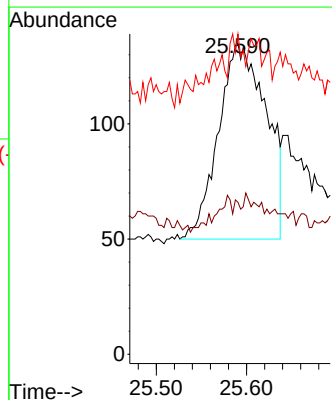
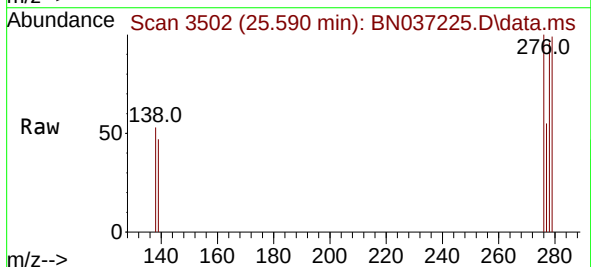
Tgt Ion:278 Resp: 313

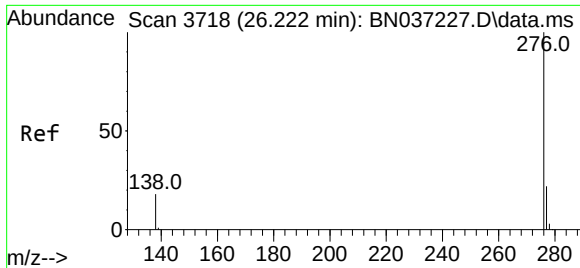
Ion Ratio Lower Upper

278 100

139 48.9 17.8 26.6#

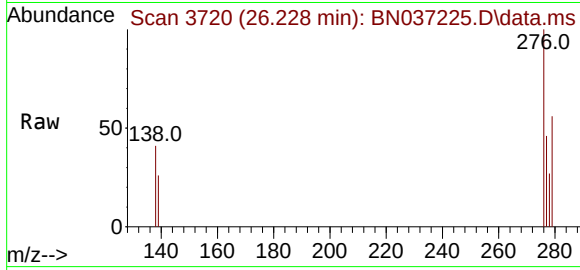
279 103.0 31.3 46.9#



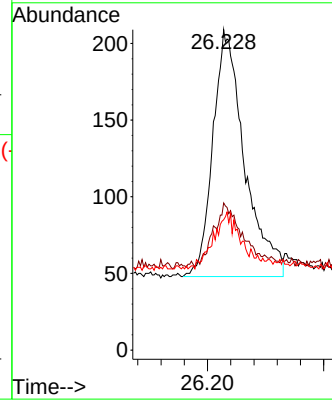
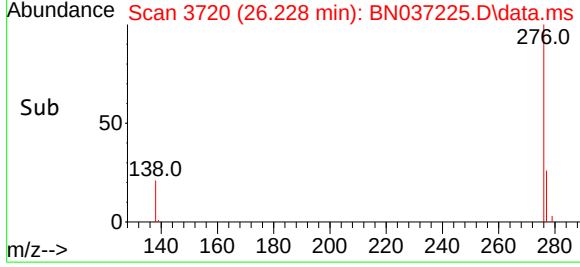


#41
 Benzo(g,h,i)perylene
 Concen: 0.101 ng
 RT: 26.228 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: BN037225.D
 Acq: 13 Jun 2025 13:33

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



Tgt Ion: 276 Resp: 608
 Ion Ratio Lower Upper
 276 100
 277 45.9 22.0 33.0#
 138 40.7 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037236.D
 Acq On : 13 Jun 2025 20:49
 Operator : RC/JU
 Sample : PB168391BS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168391BS

Quant Time: Jun 13 23:00:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

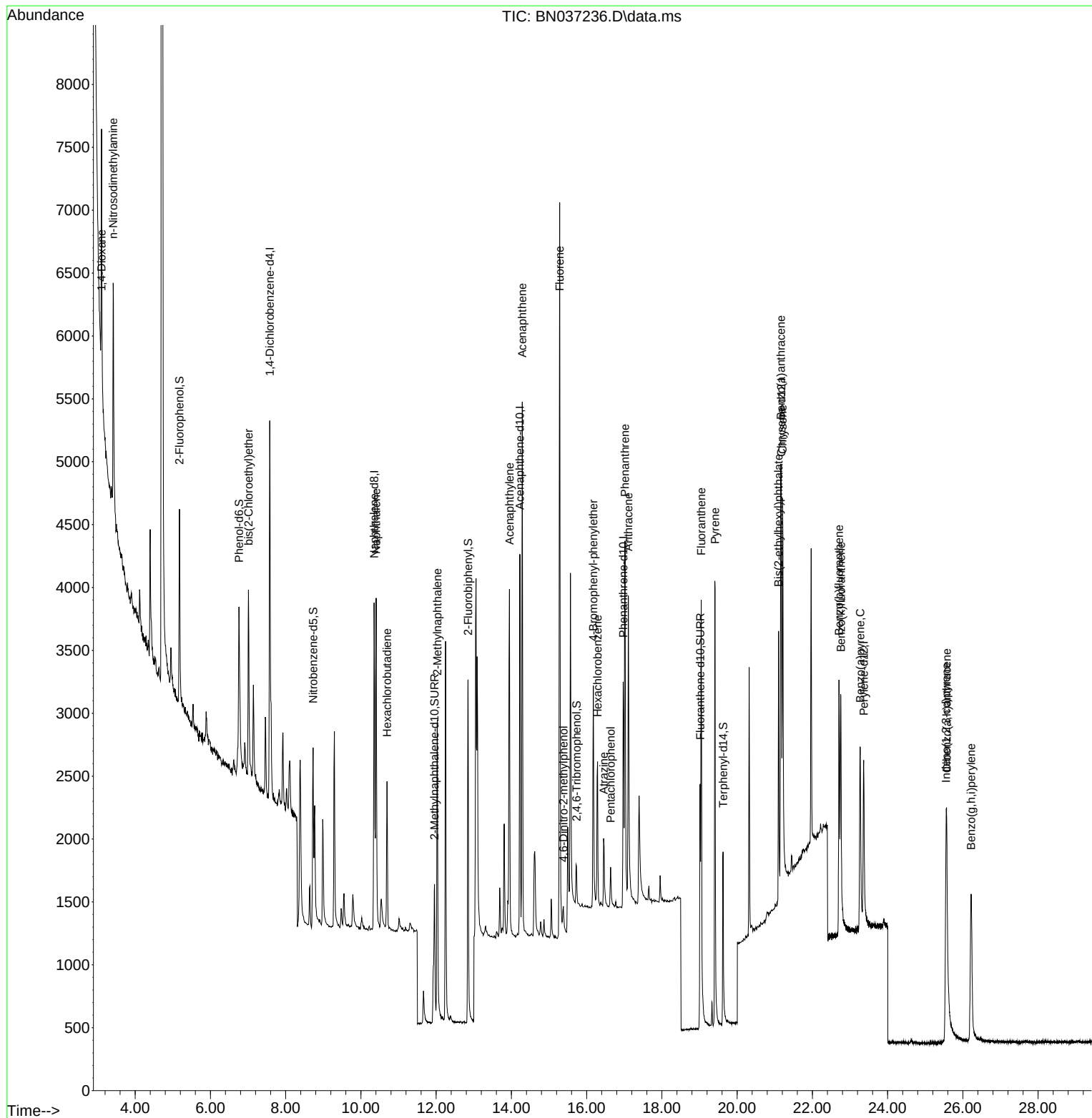
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1477	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3518	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1759	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2958	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2090	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1978	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1185	0.327	ng	0.00
5) Phenol-d6	6.759	99	1317	0.344	ng	0.00
8) Nitrobenzene-d5	8.728	82	1257	0.362	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2528	0.535	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	226	0.309	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2730	0.369	ng	0.00
27) Fluoranthene-d10	19.017	212	2623	0.339	ng	0.00
31) Terphenyl-d14	19.625	244	1755	0.371	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	796	0.393	ng	# 43
3) n-Nitrosodimethylamine	3.415	42	1681	0.364	ng	# 98
6) bis(2-Chloroethyl)ether	7.012	93	1244	0.363	ng	94
9) Naphthalene	10.404	128	3505	0.344	ng	98
10) Hexachlorobutadiene	10.693	225	890	0.359	ng	# 97
12) 2-Methylnaphthalene	12.031	142	1932	0.312	ng	98
16) Acenaphthylene	13.946	152	3185	0.370	ng	98
17) Acenaphthene	14.288	154	1906	0.343	ng	99
18) Fluorene	15.282	166	2411	0.337	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	219	0.399	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	702	0.364	ng	96
22) Hexachlorobenzene	16.289	284	839	0.375	ng	98
23) Atrazine	16.450	200	638	0.371	ng	# 91
24) Pentachlorophenol	16.636	266	229	0.209	ng	95
25) Phenanthrene	17.021	178	3397	0.362	ng	99
26) Anthracene	17.108	178	3155	0.367	ng	99
28) Fluoranthene	19.045	202	3664	0.334	ng	99
30) Pyrene	19.412	202	3754	0.382	ng	100
32) Benzo(a)anthracene	21.162	228	2669	0.378	ng	99
33) Chrysene	21.206	228	3248	0.369	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	2029	0.386	ng	98
36) Indeno(1,2,3-cd)pyrene	25.552	276	3030	0.380	ng	99
37) Benzo(b)fluoranthene	22.708	252	2546	0.352	ng	95
38) Benzo(k)fluoranthene	22.754	252	3130	0.375	ng	97
39) Benzo(a)pyrene	23.269	252	2538	0.390	ng	96
40) Dibenzo(a,h)anthracene	25.570	278	2336	0.385	ng	100
41) Benzo(g,h,i)perylene	26.219	276	2629	0.355	ng	95

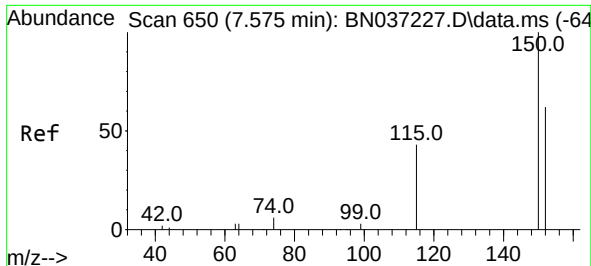
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037236.D
Acq On : 13 Jun 2025 20:49
Operator : RC/JU
Sample : PB168391BS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168391BS

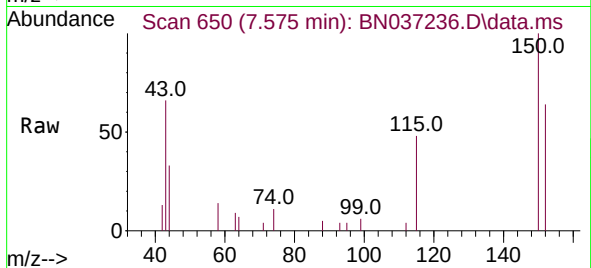
Quant Time: Jun 13 23:00:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration



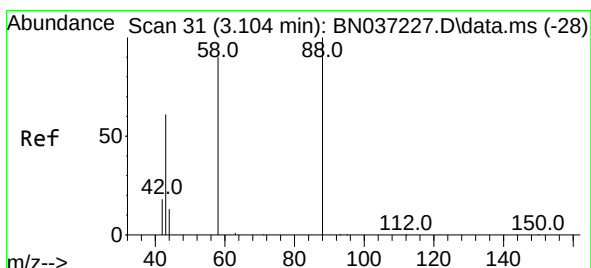
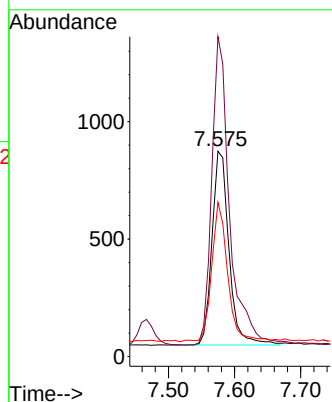
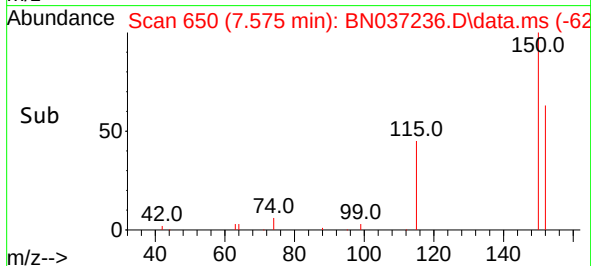


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49

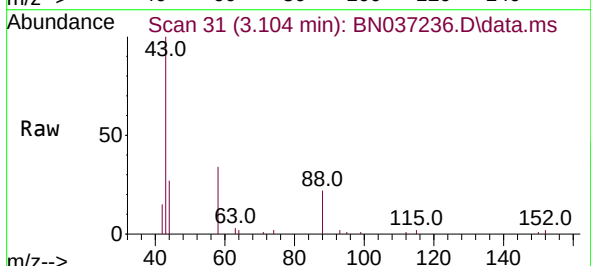
Instrument :
 BNA_N
 ClientSampleId :
 PB168391BS



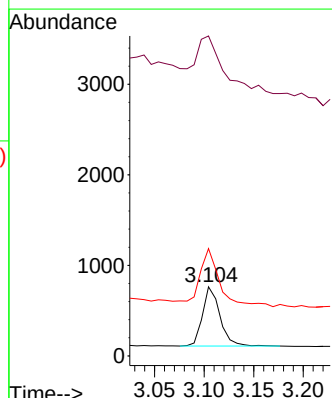
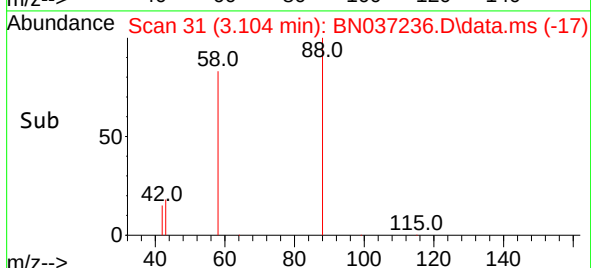
Tgt Ion:152 Resp: 1477
 Ion Ratio Lower Upper
 152 100
 150 155.8 125.2 187.8
 115 75.1 58.4 87.6

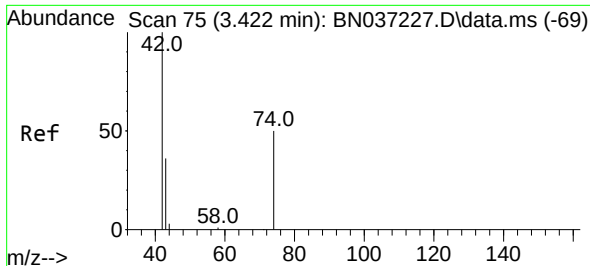


#2
 1,4-Dioxane
 Concen: 0.393 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49



Tgt Ion: 88 Resp: 796
 Ion Ratio Lower Upper
 88 100
 43 154.0 52.6 79.0#
 58 109.7 73.5 110.3

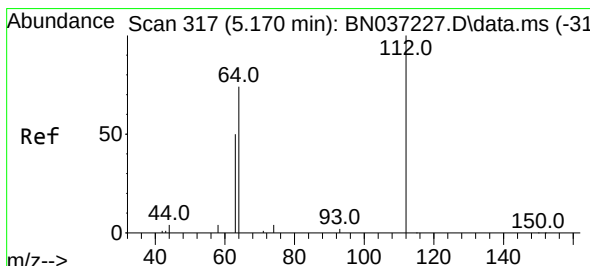
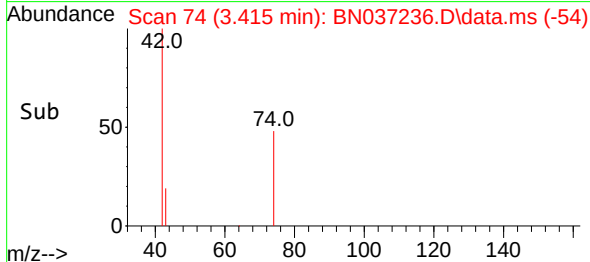
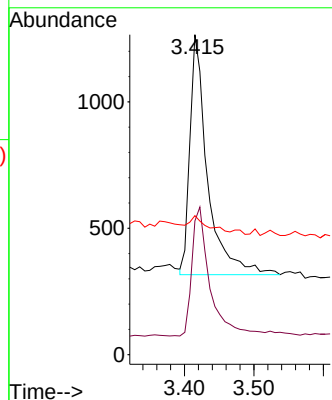
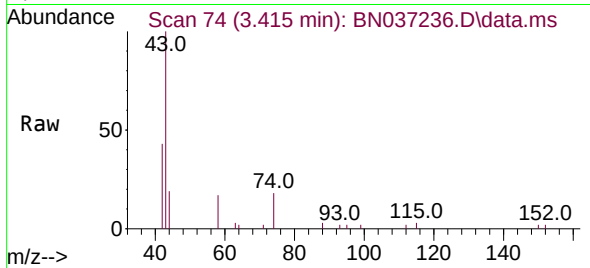




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

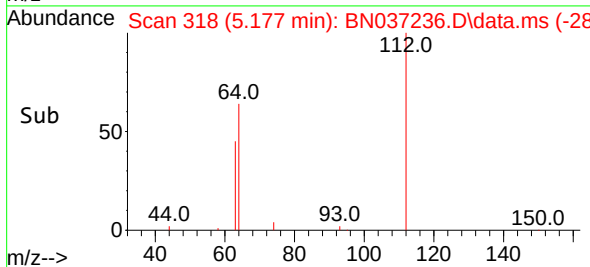
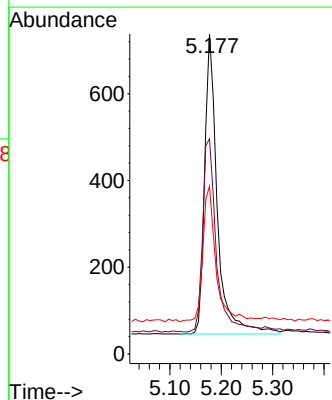
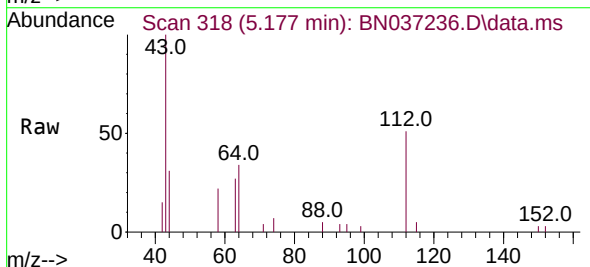
Instrument :
BNA_N
ClientSampleId :
PB168391BS

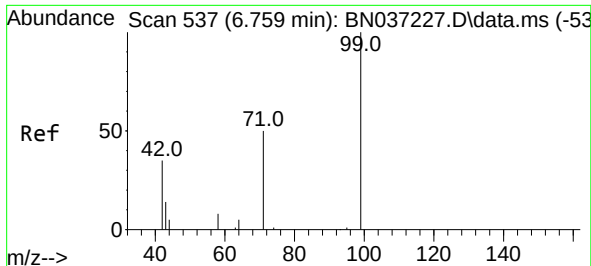
Tgt Ion: 42 Resp: 1681
Ion Ratio Lower Upper
42 100
74 54.7 44.6 66.8
44 5.9 3.5 5.3#



#4
2-Fluorophenol
Concen: 0.327 ng
RT: 5.177 min Scan# 318
Delta R.T. 0.007 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion: 112 Resp: 1185
Ion Ratio Lower Upper
112 100
64 69.1 57.2 85.8
63 47.2 39.8 59.6

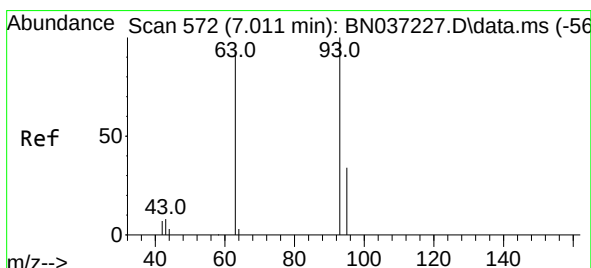
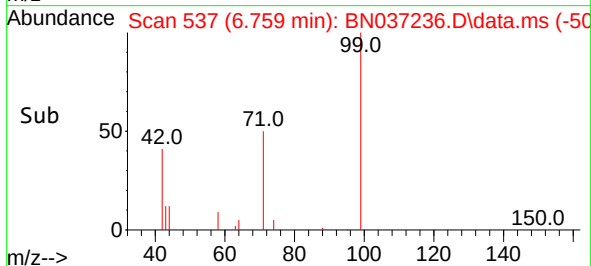
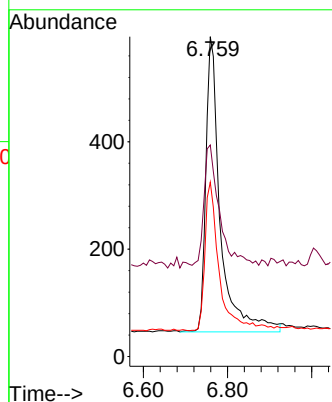
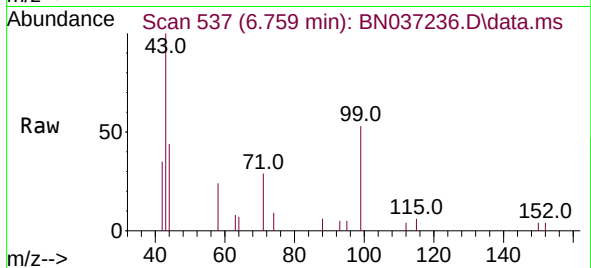




#5
Phenol-d6
Concen: 0.344 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

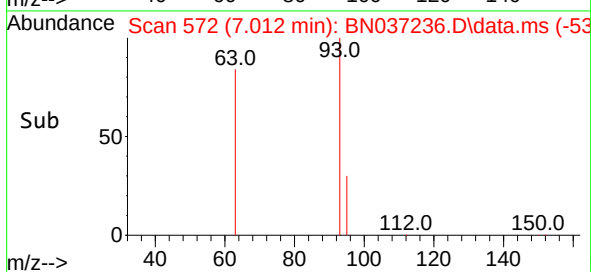
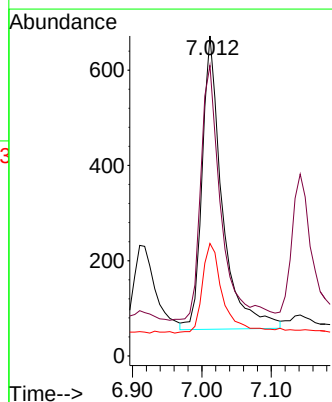
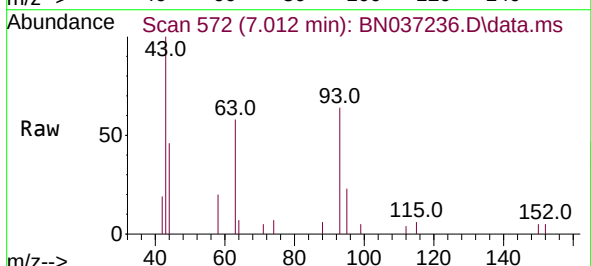
Instrument :
BNA_N
ClientSampleId :
PB168391BS

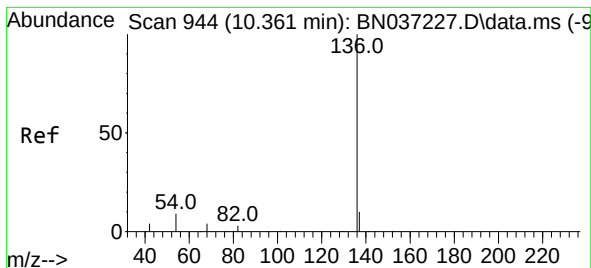
Tgt Ion:	99	Resp:	1317
Ion	Ratio	Lower	Upper
99	100		
42	42.7	36.2	54.4
71	48.7	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.363 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:	93	Resp:	1244
Ion	Ratio	Lower	Upper
93	100		
63	87.9	75.2	112.8
95	31.4	28.3	42.5





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 94

Delta R.T. -0.011 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS

Tgt Ion:136 Resp: 3518

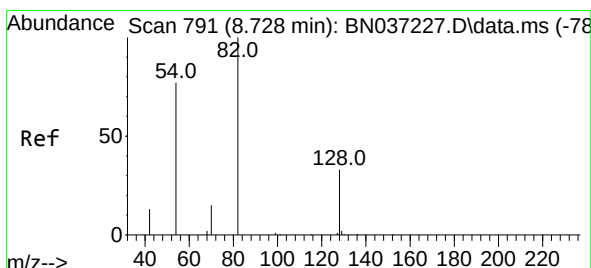
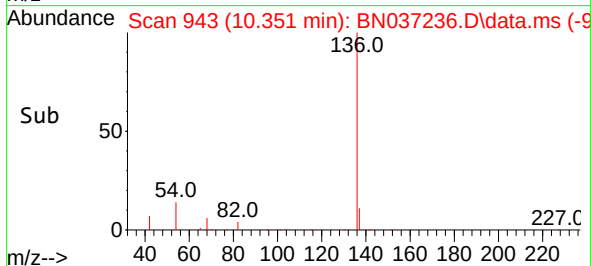
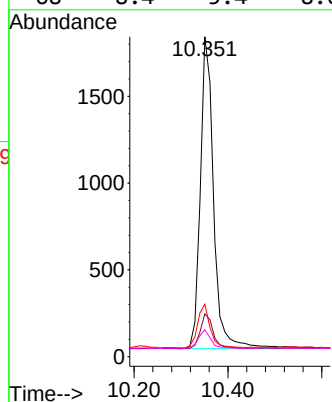
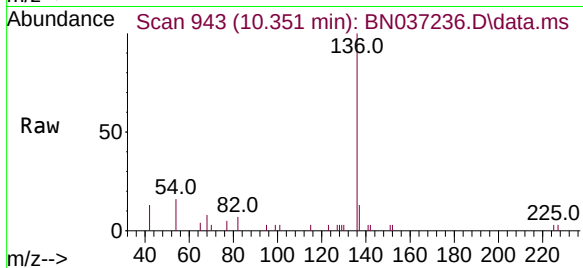
Ion Ratio Lower Upper

136 100

137 13.4 10.6 15.8

54 16.4 9.2 13.8#

68 8.4 5.4 8.0#



#8

Nitrobenzene-d5

Concen: 0.362 ng

RT: 8.728 min Scan# 791

Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

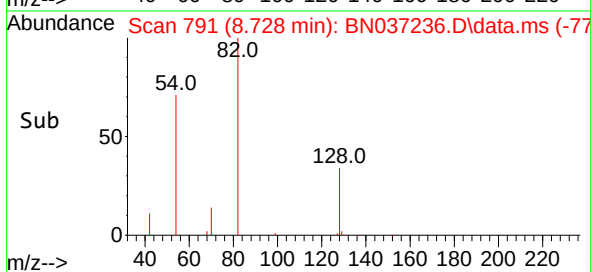
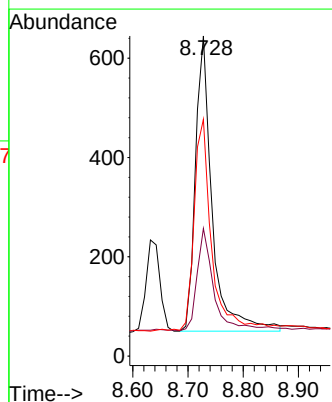
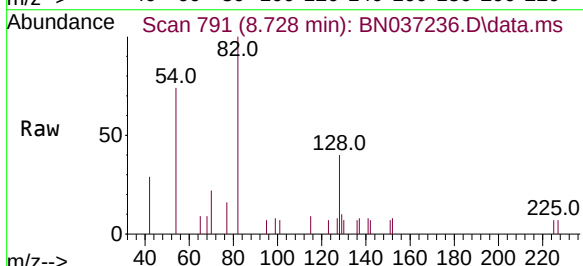
Tgt Ion: 82 Resp: 1257

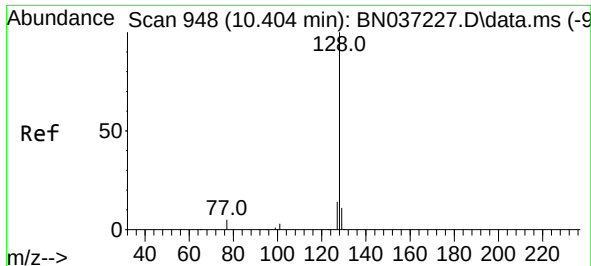
Ion Ratio Lower Upper

82 100

128 39.8 31.2 46.8

54 74.0 63.3 94.9

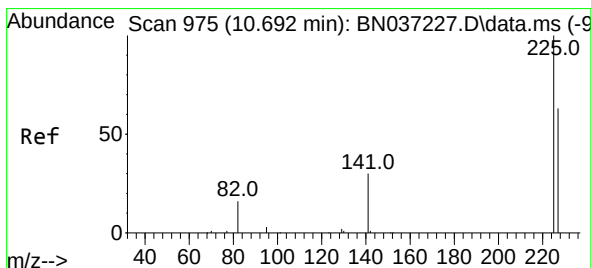
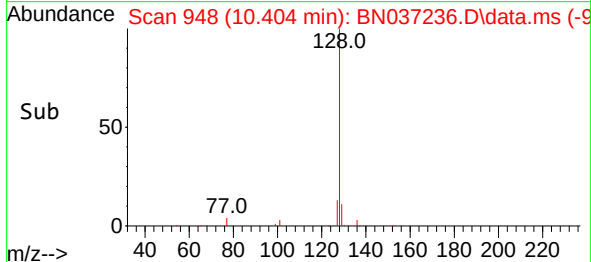
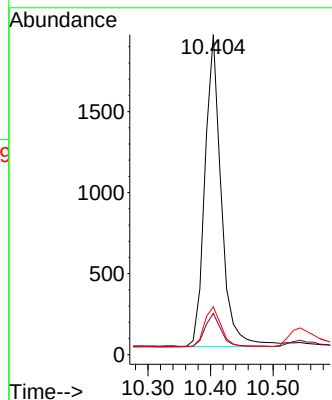
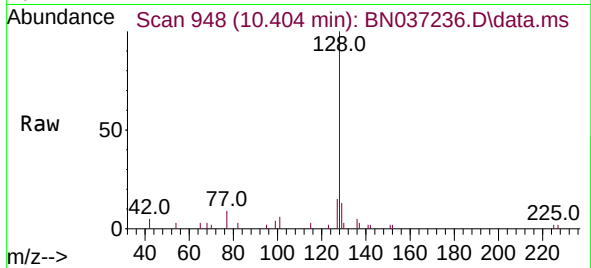




#9
Naphthalene
Concen: 0.344 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

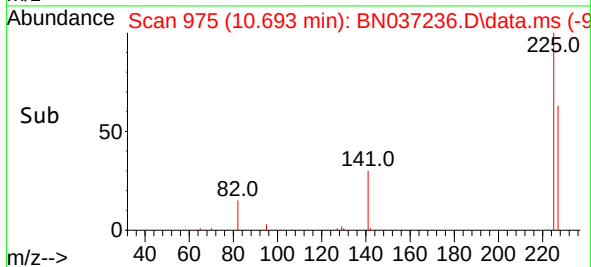
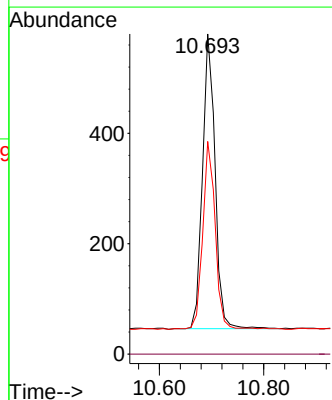
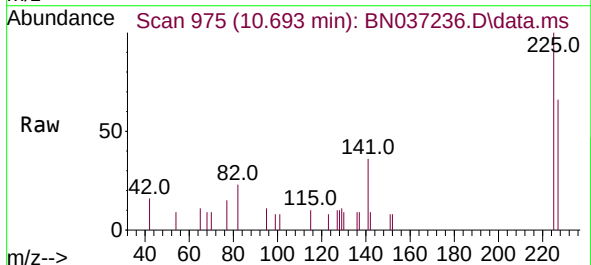
Instrument :
BNA_N
ClientSampleId :
PB168391BS

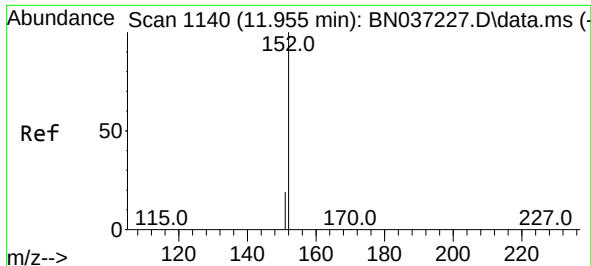
Tgt Ion:	128	Resp:	3505
Ion	Ratio	Lower	Upper
128	100		
129	12.9	10.7	16.1
127	14.9	12.6	19.0



#10
Hexachlorobutadiene
Concen: 0.359 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:	225	Resp:	890
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	49.2	73.8

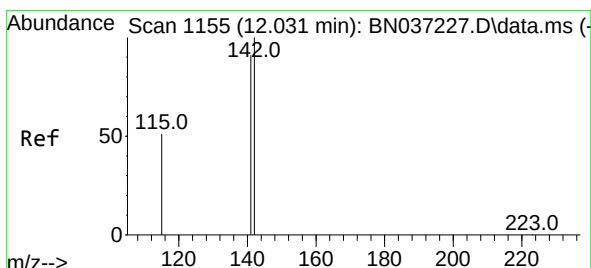
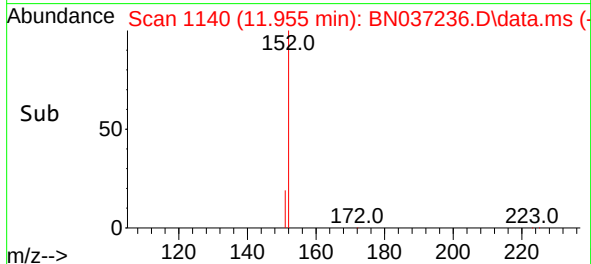
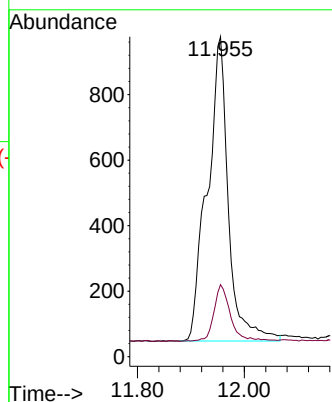
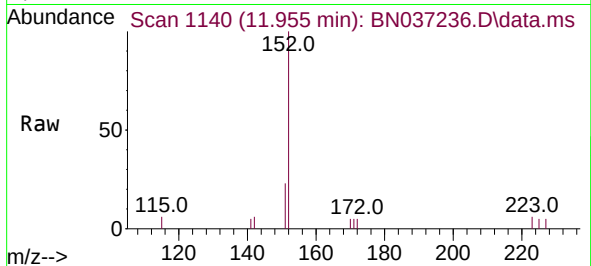




#11
2-Methylnaphthalene-d10
Concen: 0.535 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

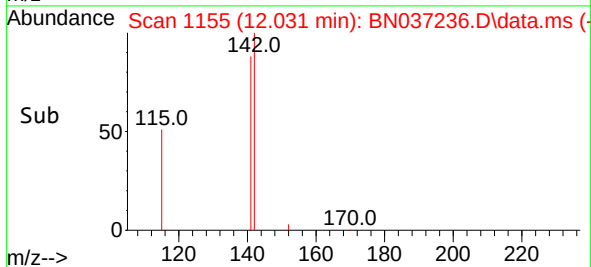
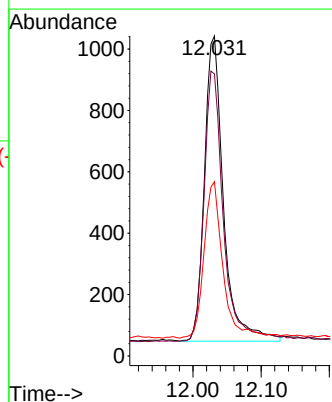
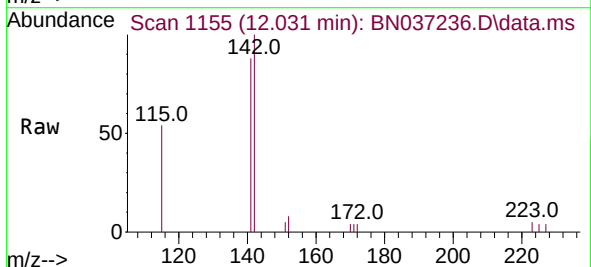
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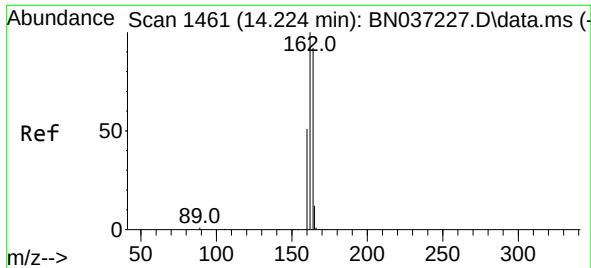
Tgt Ion:152 Resp: 2528
Ion Ratio Lower Upper
152 100
151 14.9 17.9 26.9#



#12
2-Methylnaphthalene
Concen: 0.312 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:142 Resp: 1932
Ion Ratio Lower Upper
142 100
141 88.1 73.0 109.6
115 54.5 43.3 64.9

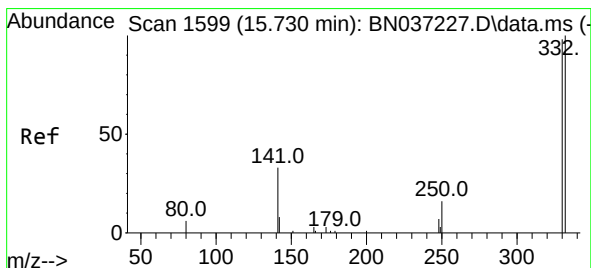
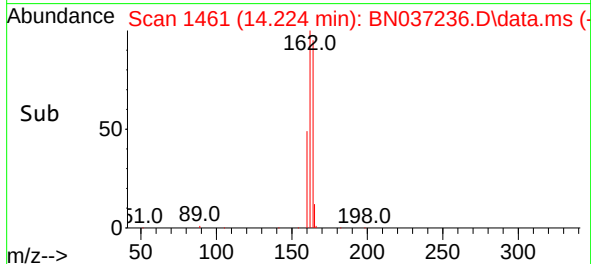
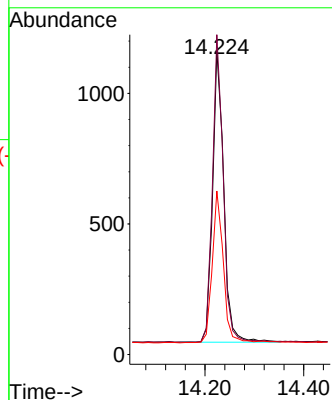
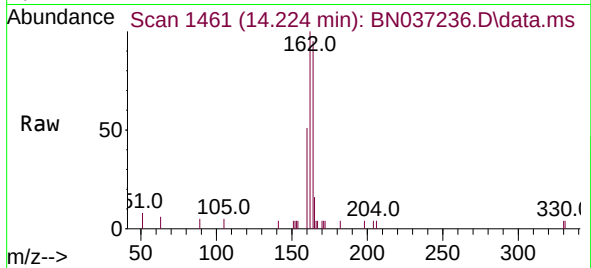




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

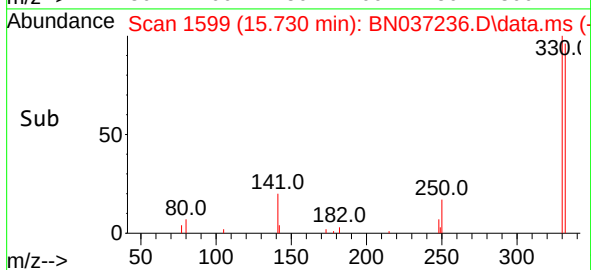
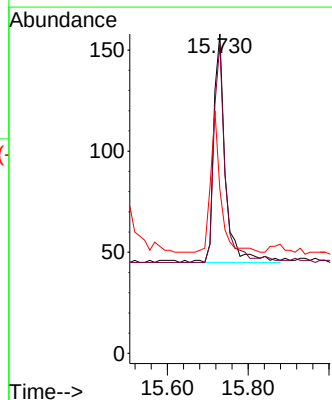
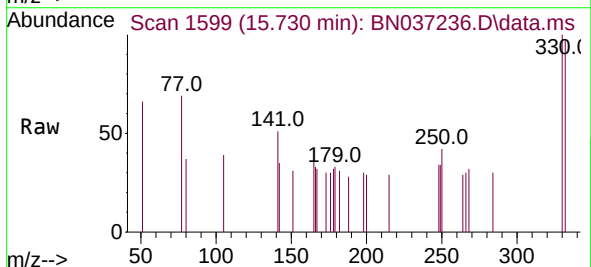
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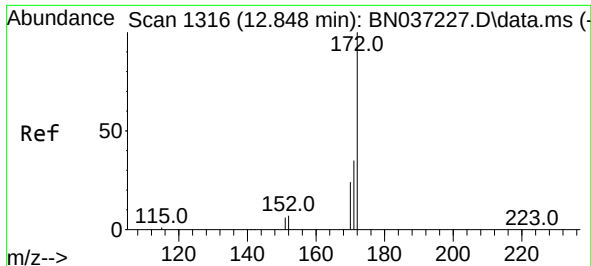
Tgt Ion:	164	Resp:	1759
Ion Ratio	Lower	Upper	
164	100		
162	105.4	86.7	130.1
160	53.9	45.8	68.6



#14
2,4,6-Tribromophenol
Concen: 0.309 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:	330	Resp:	226
Ion Ratio	Lower	Upper	
330	100		
332	90.3	74.9	112.3
141	53.1	45.1	67.7

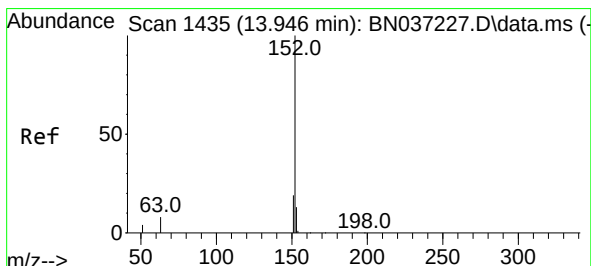
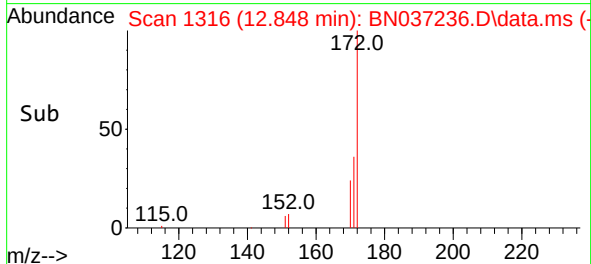
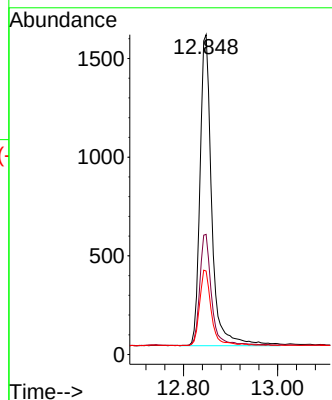
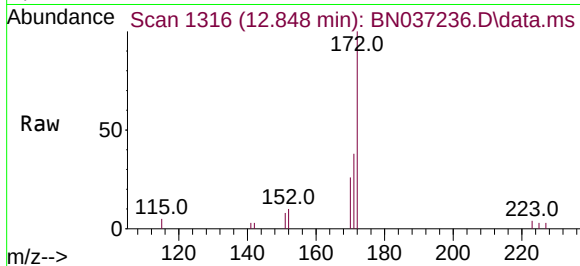




#15
2-Fluorobiphenyl
Concen: 0.369 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

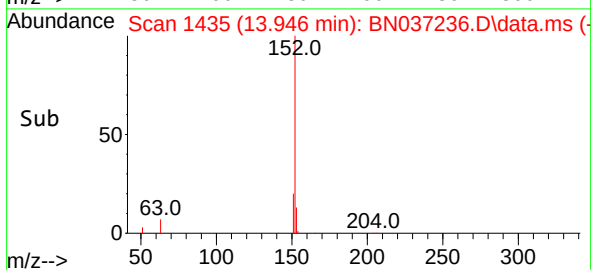
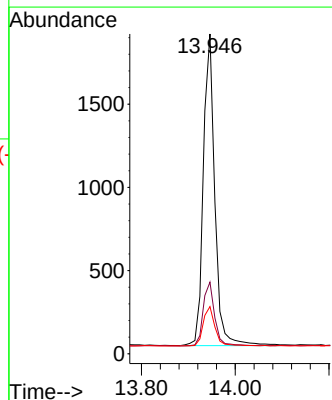
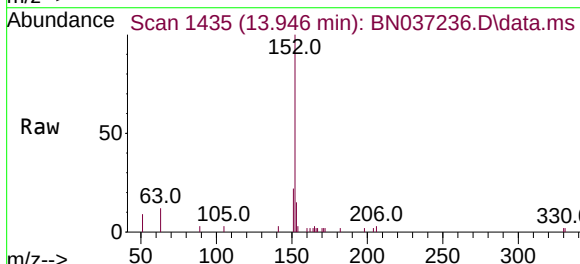
Instrument :
BNA_N
ClientSampleId :
PB168391BS

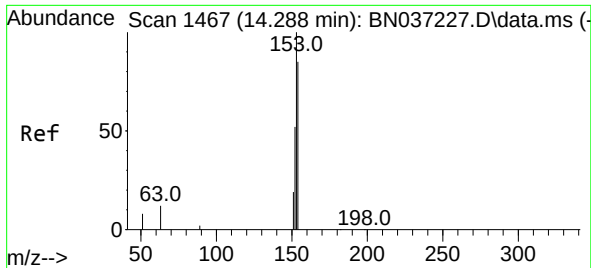
Tgt Ion:	172	Resp:	2730
Ion Ratio	Lower	Upper	
172	100		
171	37.6	29.8	44.8
170	26.1	21.1	31.7



#16
Acenaphthylene
Concen: 0.370 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:	152	Resp:	3185
Ion Ratio	Lower	Upper	
152	100		
151	20.7	15.7	23.5
153	13.2	10.7	16.1

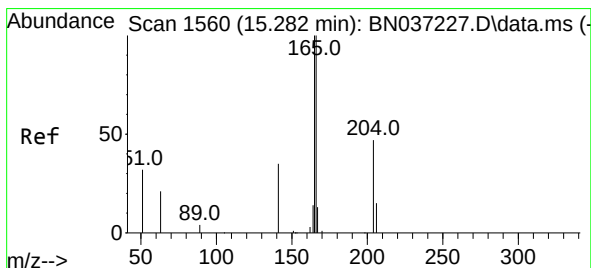
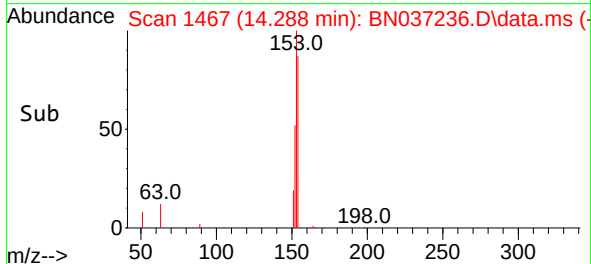
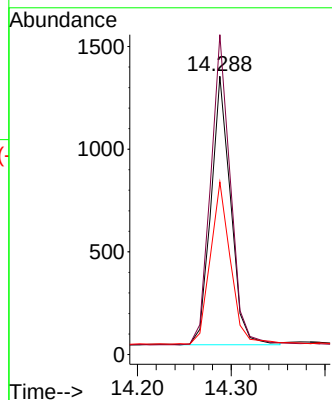
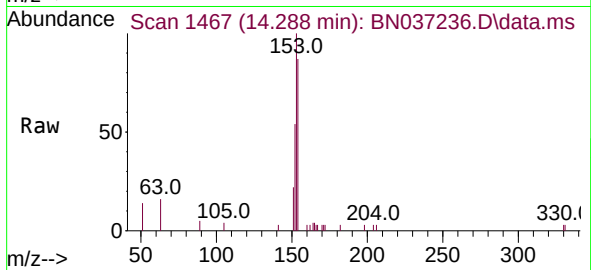




#17
Acenaphthene
Concen: 0.343 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

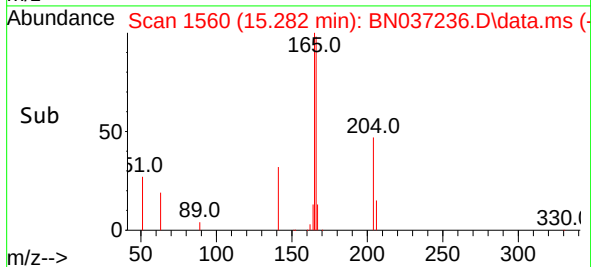
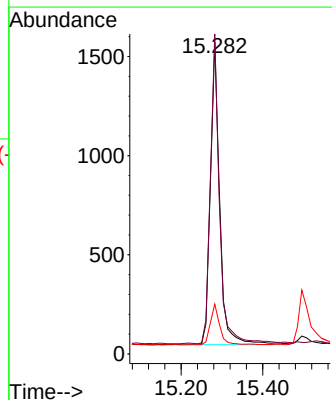
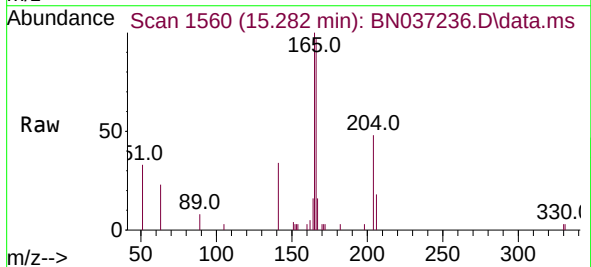
Instrument :
BNA_N
ClientSampleId :
PB168391BS

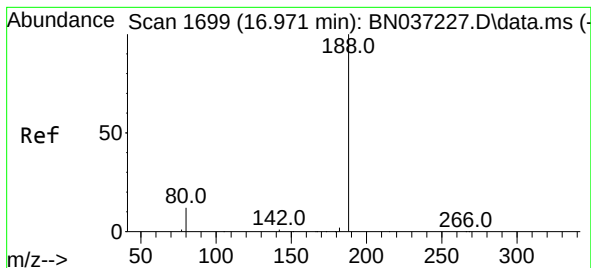
Tgt Ion:154 Resp: 1906
Ion Ratio Lower Upper
154 100
153 116.8 94.6 141.8
152 62.2 49.6 74.4



#18
Fluorene
Concen: 0.337 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:166 Resp: 2411
Ion Ratio Lower Upper
166 100
165 100.3 79.8 119.6
167 13.5 10.8 16.2

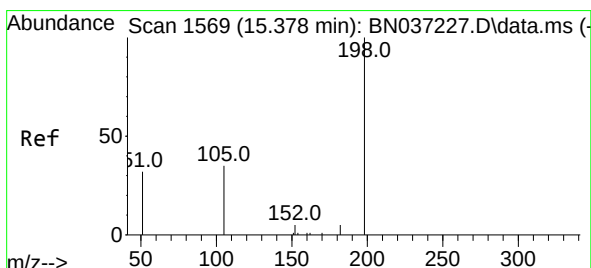
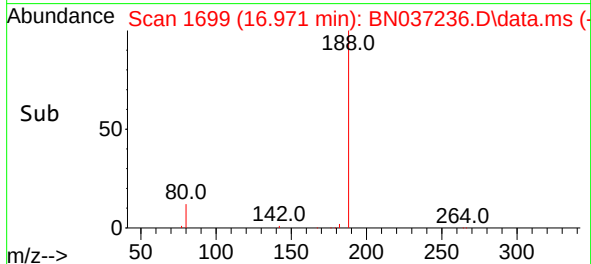
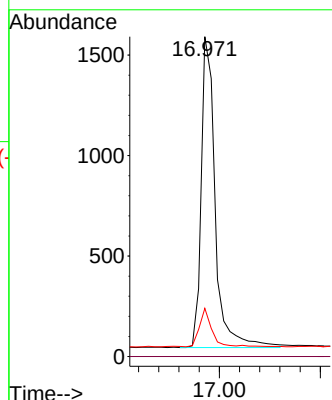
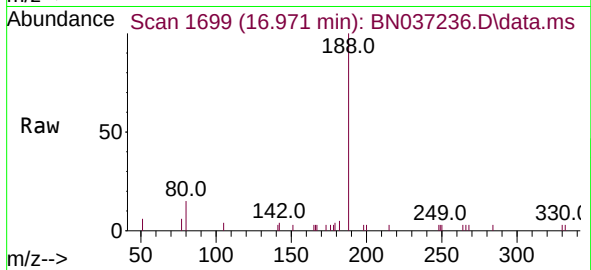




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

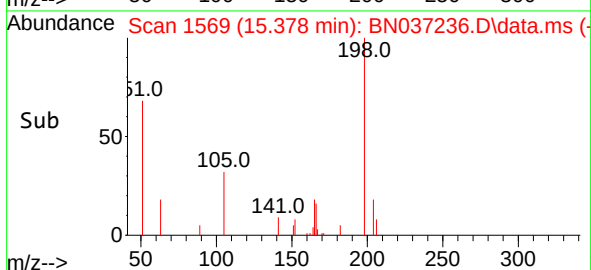
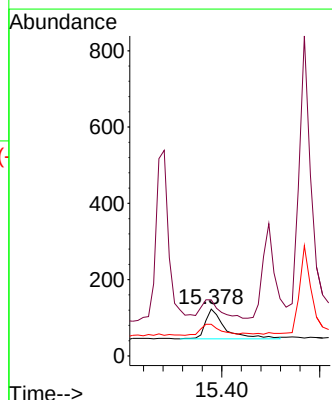
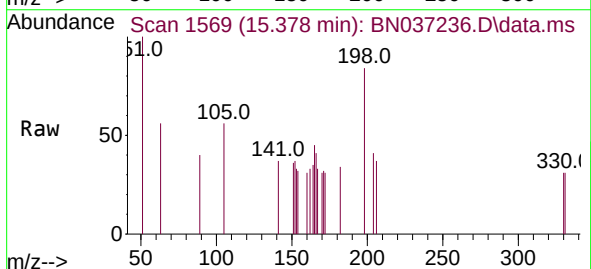
Instrument :
BNA_N
ClientSampleId :
PB168391BS

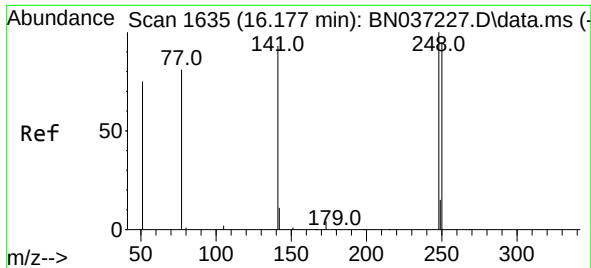
Tgt Ion:188 Resp: 2958
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.1 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.399 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:198 Resp: 219
Ion Ratio Lower Upper
198 100
51 119.5 111.2 166.8
105 67.5 54.0 81.0

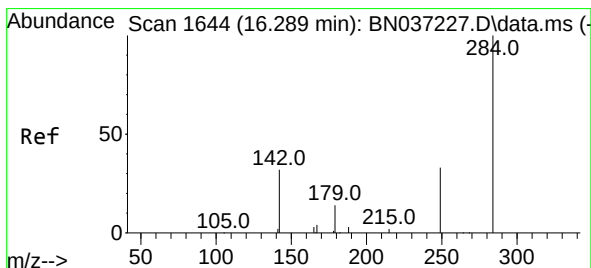
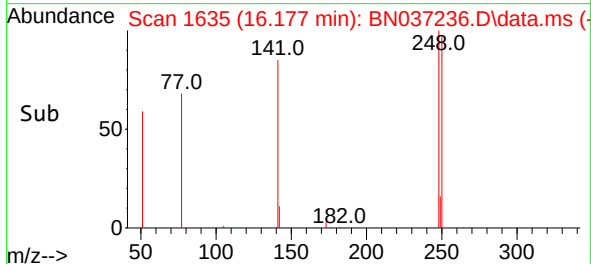
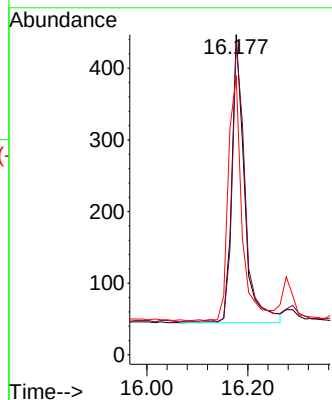
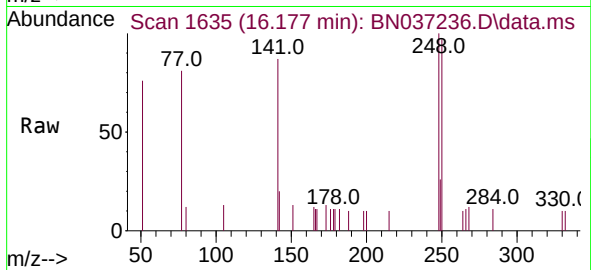




#21
4-Bromophenyl-phenylether
Concen: 0.364 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

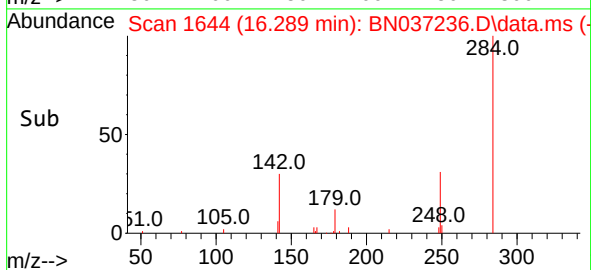
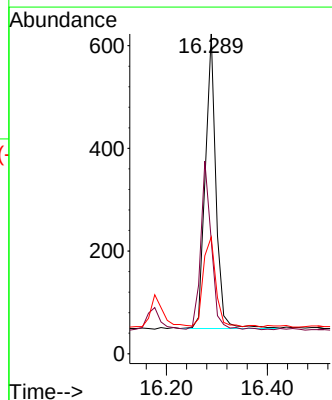
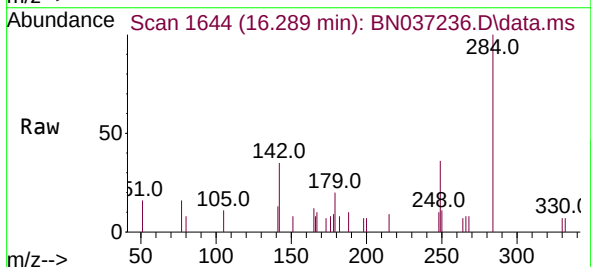
Instrument :
BNA_N
ClientSampleId :
PB168391BS

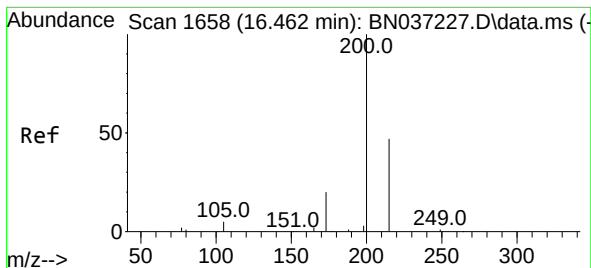
Tgt Ion:	248	Resp:	702
Ion Ratio	Lower	Upper	
248	100		
250	97.3	76.8	115.2
141	87.2	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.375 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:	284	Resp:	839
Ion Ratio	Lower	Upper	
284	100		
142	57.3	43.8	65.6
249	35.3	28.4	42.6





#23

Atrazine

Concen: 0.371 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.012 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS

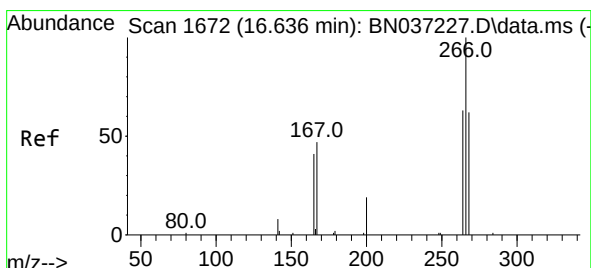
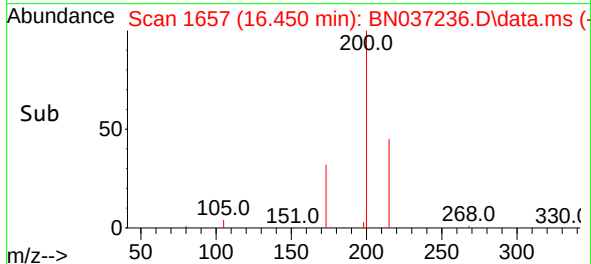
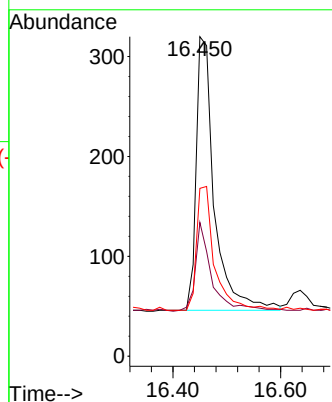
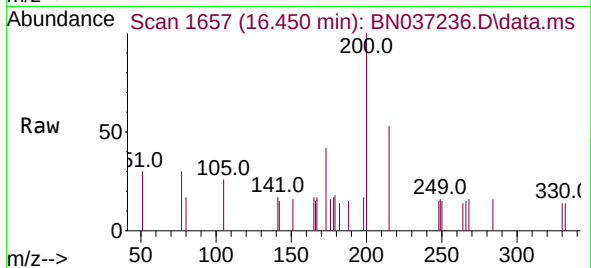
Tgt Ion:200 Resp: 638

Ion Ratio Lower Upper

200 100

173 41.9 25.1 37.7#

215 52.5 43.7 65.5



#24

Pentachlorophenol

Concen: 0.209 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

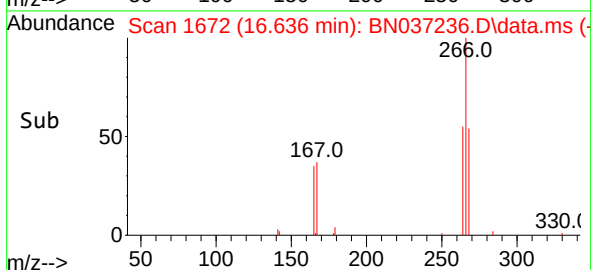
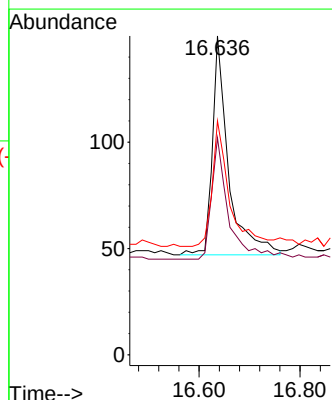
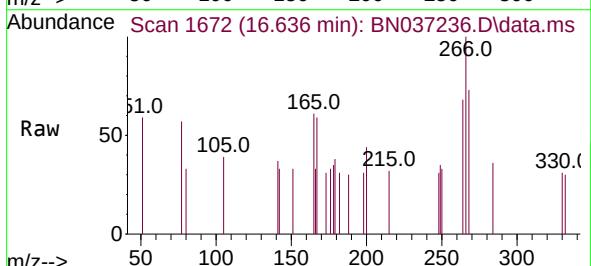
Tgt Ion:266 Resp: 229

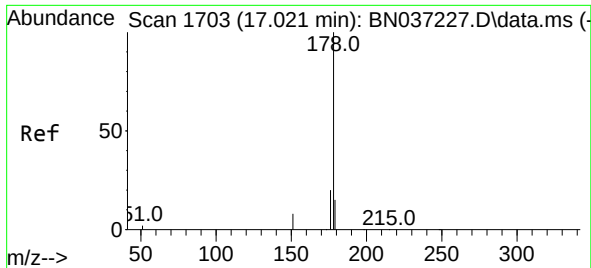
Ion Ratio Lower Upper

266 100

264 59.0 49.2 73.8

268 61.1 53.4 80.2

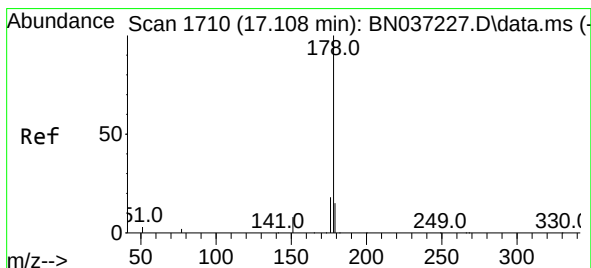
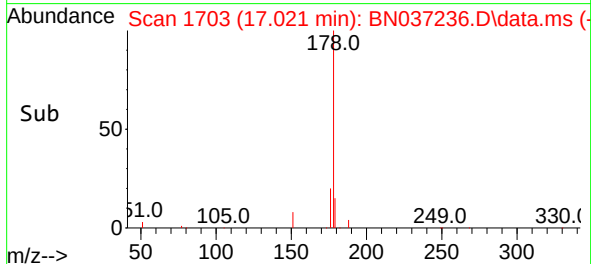
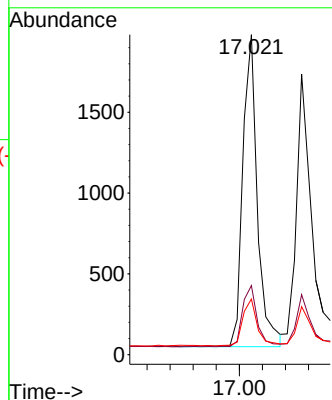
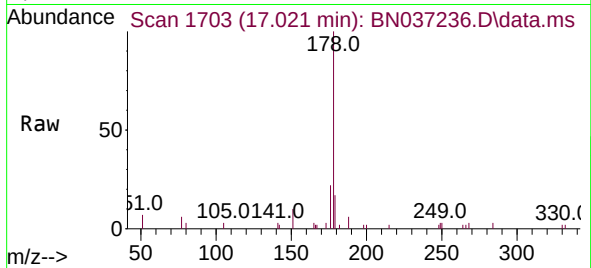




#25
 Phenanthrene
 Concen: 0.362 ng
 RT: 17.021 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49

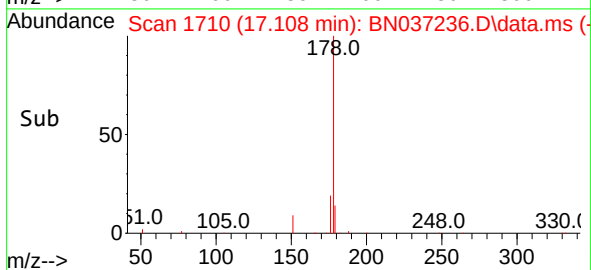
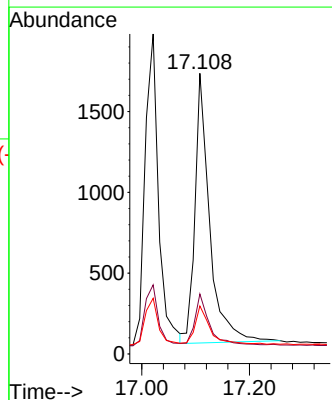
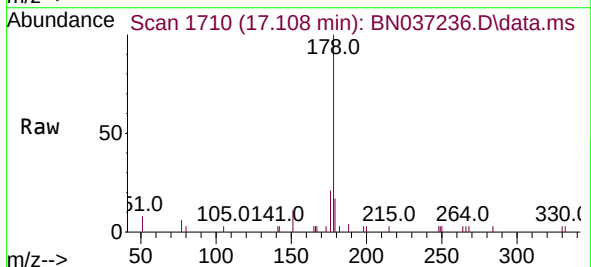
Instrument :
 BNA_N
 ClientSampleId :
 PB168391BS

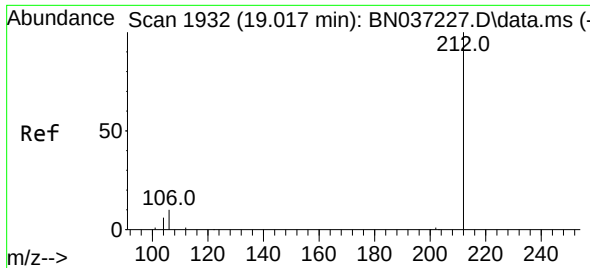
Tgt Ion:	178	Resp:	3397
Ion Ratio	Lower	Upper	
178	100		
176	19.8	16.3	24.5
179	15.1	12.6	18.8



#26
 Anthracene
 Concen: 0.367 ng
 RT: 17.108 min Scan# 1710
 Delta R.T. 0.000 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49

Tgt Ion:	178	Resp:	3155
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.1	22.7
179	15.1	12.4	18.6

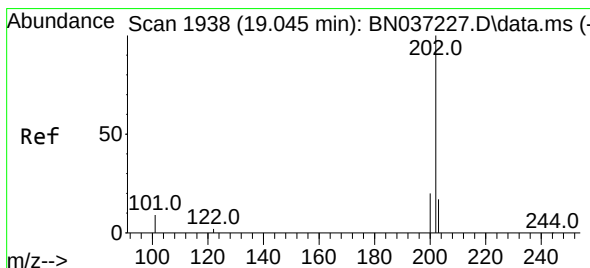
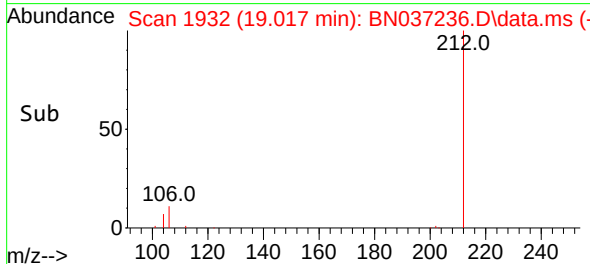
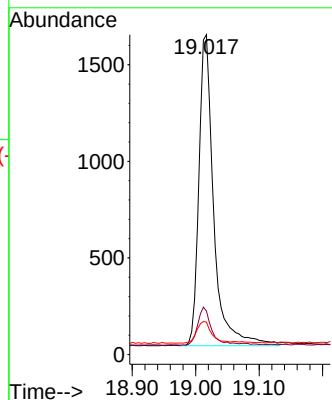
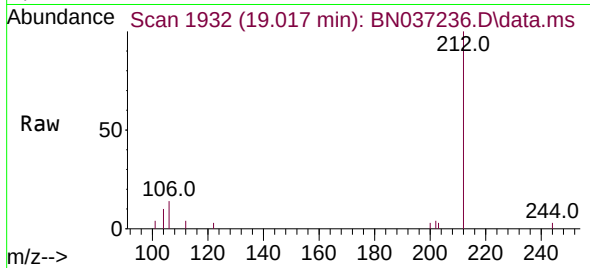




#27
Fluoranthene-d10
Concen: 0.339 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

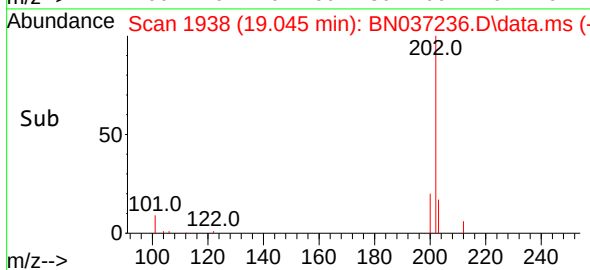
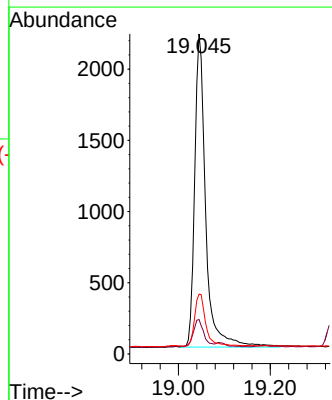
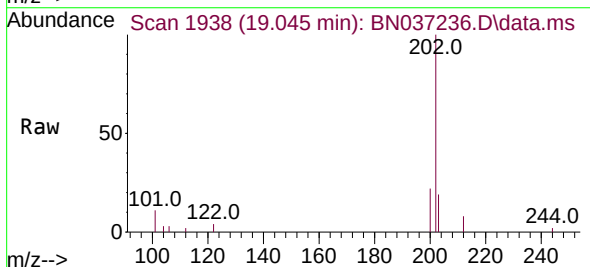
Instrument :
BNA_N
ClientSampleId :
PB168391BS

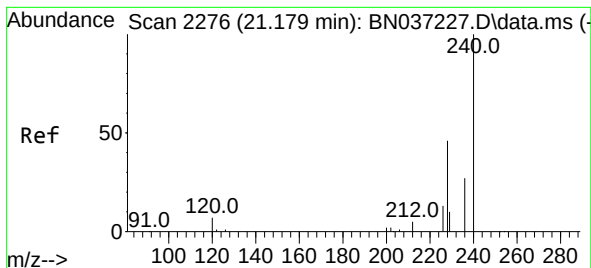
Tgt Ion:212	Resp:	2623
Ion Ratio	Lower	Upper
212	100	
106	11.1	9.3 13.9
104	7.0	5.7 8.5



#28
Fluoranthene
Concen: 0.334 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Tgt Ion:202	Resp:	3664
Ion Ratio	Lower	Upper
202	100	
101	8.8	7.1 10.7
203	16.8	13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS

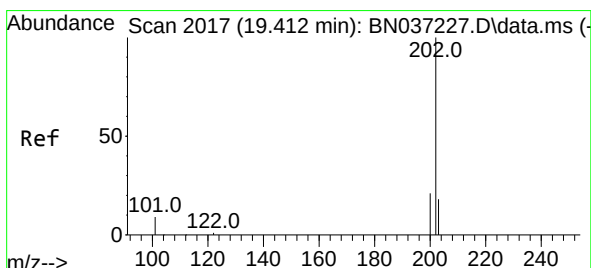
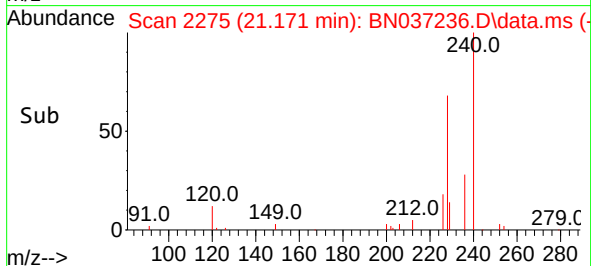
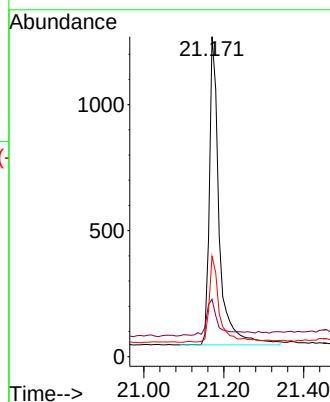
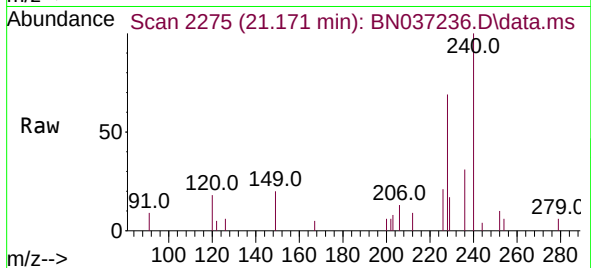
Tgt Ion:240 Resp: 2090

Ion Ratio Lower Upper

240 100

120 17.9 11.3 16.9#

236 31.3 24.4 36.6



#30

Pyrene

Concen: 0.382 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

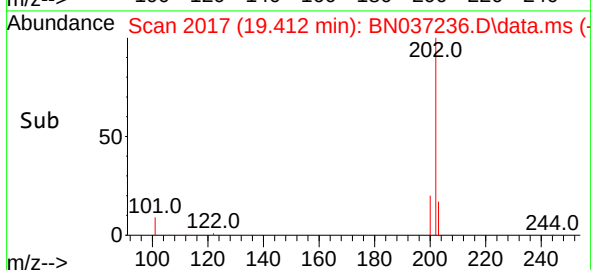
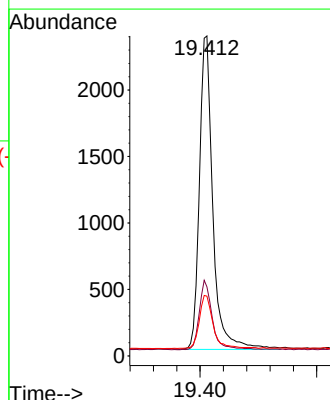
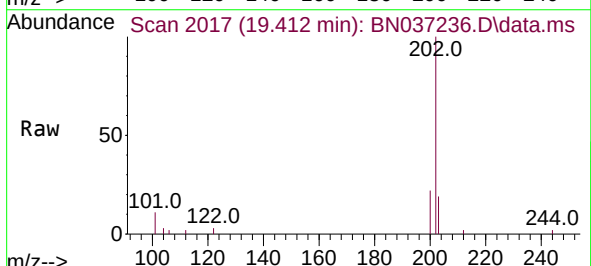
Tgt Ion:202 Resp: 3754

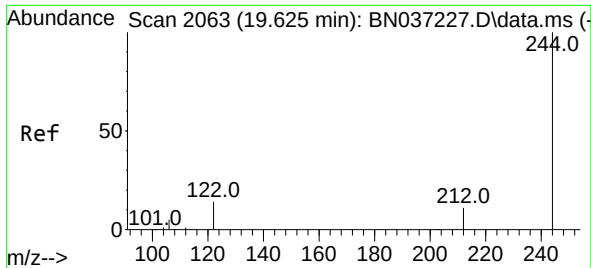
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

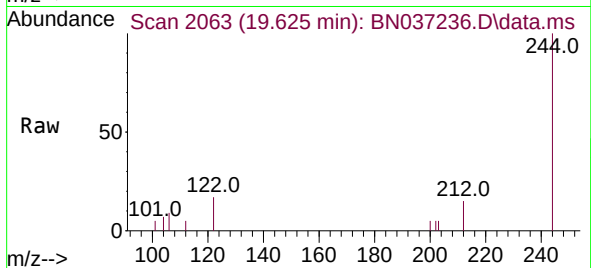
203 17.5 14.3 21.5



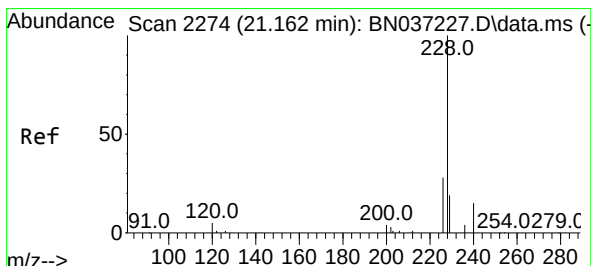
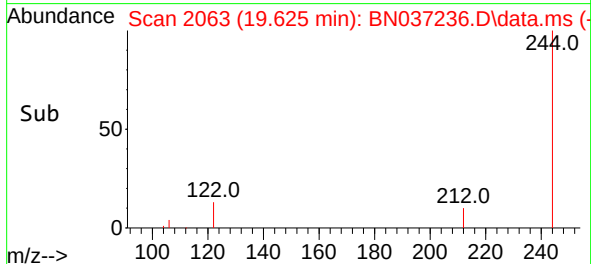
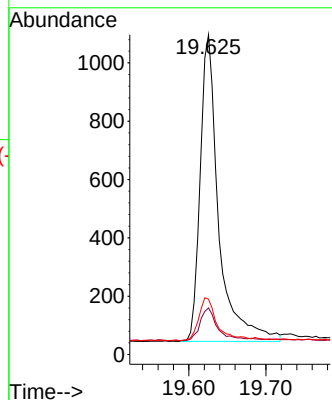


#31
 Terphenyl-d14
 Concen: 0.371 ng
 RT: 19.625 min Scan# 2063
 Delta R.T. 0.000 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49

Instrument :
 BNA_N
 ClientSampleId :
 PB168391BS

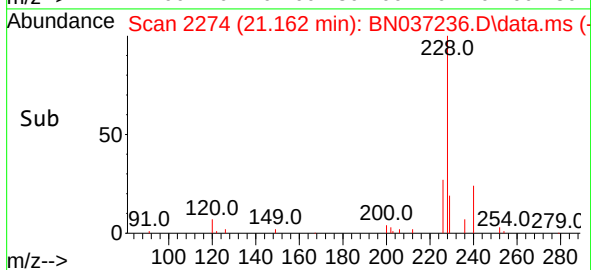
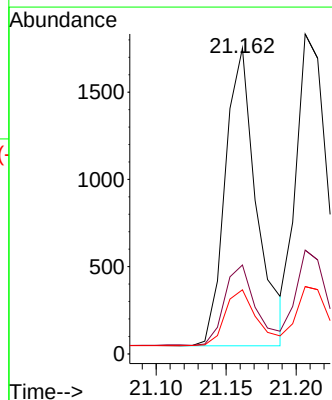
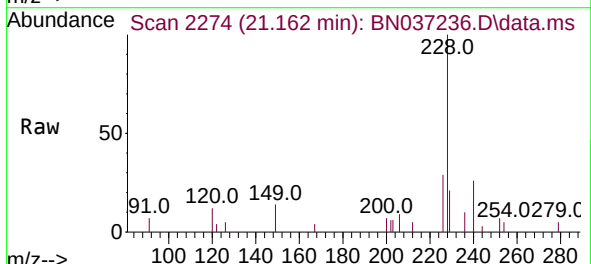


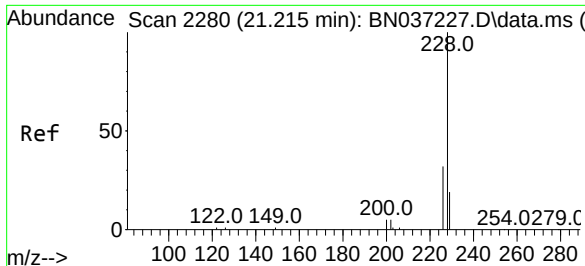
Tgt Ion:244 Resp: 1755
 Ion Ratio Lower Upper
 244 100
 212 14.6 12.2 18.2
 122 17.3 14.3 21.5



#32
 Benzo(a)anthracene
 Concen: 0.378 ng
 RT: 21.162 min Scan# 2274
 Delta R.T. 0.000 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49

Tgt Ion:228 Resp: 2669
 Ion Ratio Lower Upper
 228 100
 226 29.0 23.8 35.8
 229 20.9 17.0 25.4

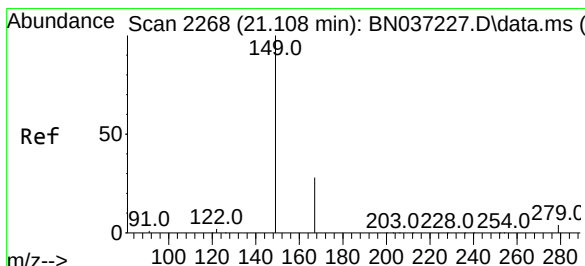
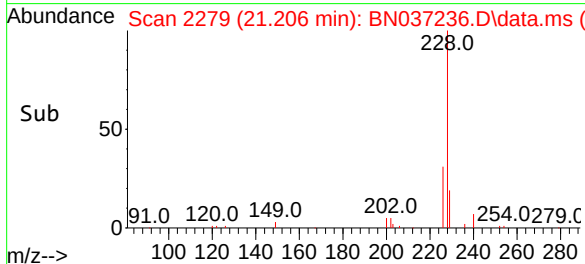
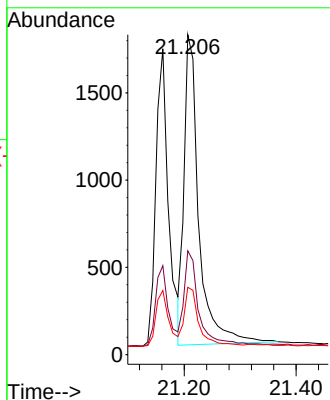
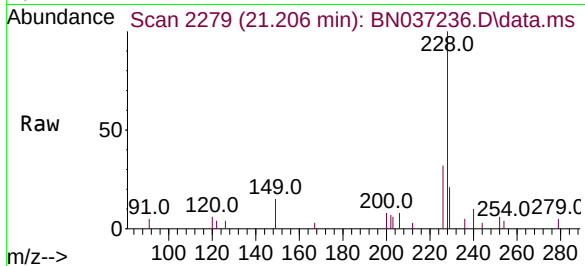




#33
Chrysene
Concen: 0.369 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

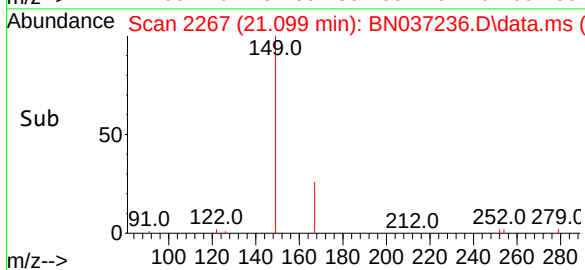
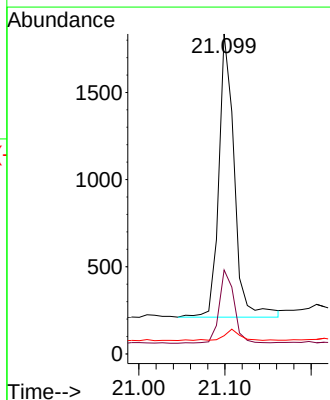
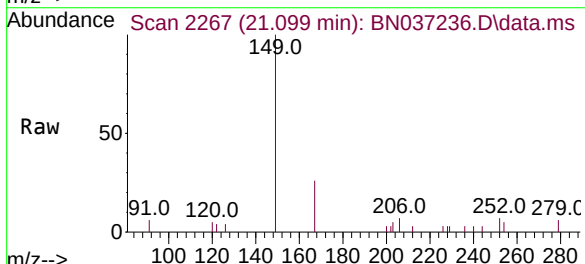
Instrument :
BNA_N
ClientSampleId :
PB168391BS

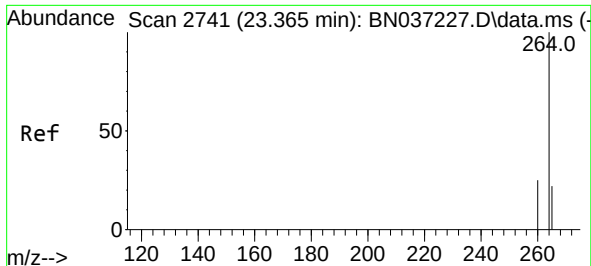
Tgt Ion:228	Resp:	3248
Ion Ratio	Lower	Upper
228	100	
226	32.4	25.8 38.6
229	21.0	17.0 25.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.386 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.009 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

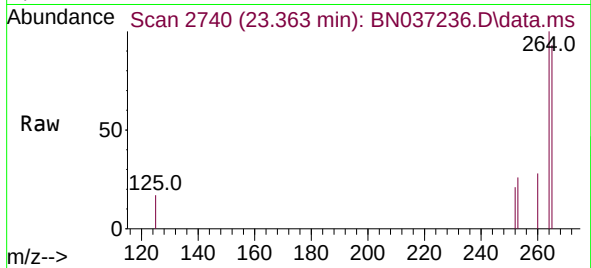
Tgt Ion:149	Resp:	2029
Ion Ratio	Lower	Upper
149	100	
167	25.2	21.3 31.9
279	3.9	3.3 4.9



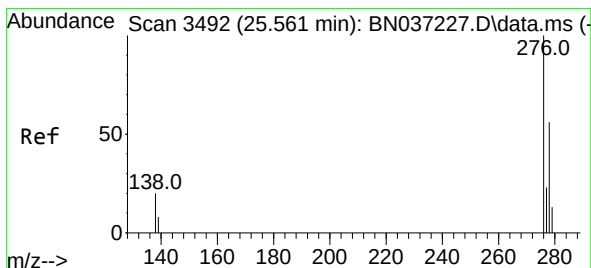
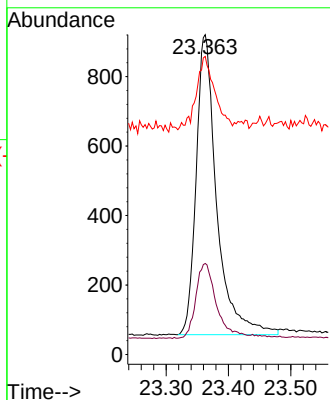
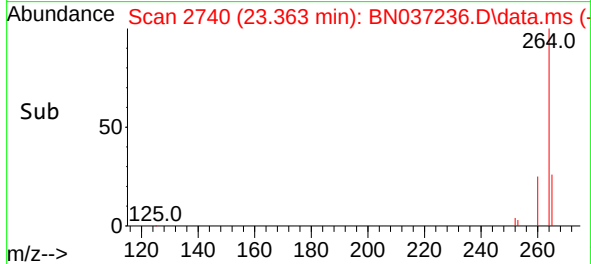


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.363 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49

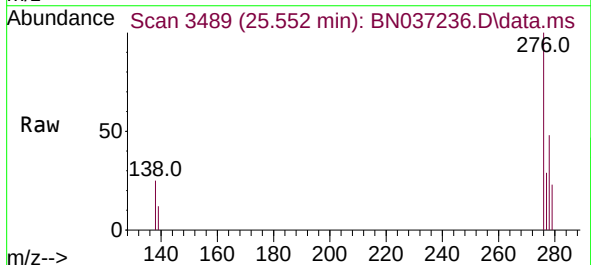
Instrument :
 BNA_N
 ClientSampleId :
 PB168391BS



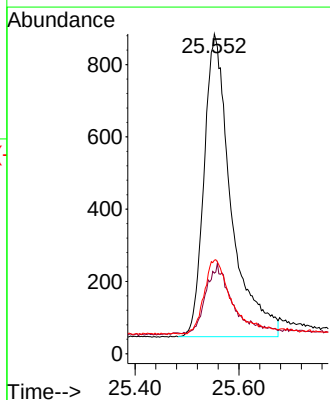
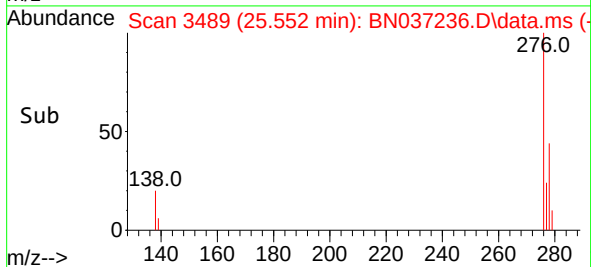
Tgt Ion:264 Resp: 1978
 Ion Ratio Lower Upper
 264 100
 260 28.4 22.8 34.2
 265 93.2 66.4 99.6

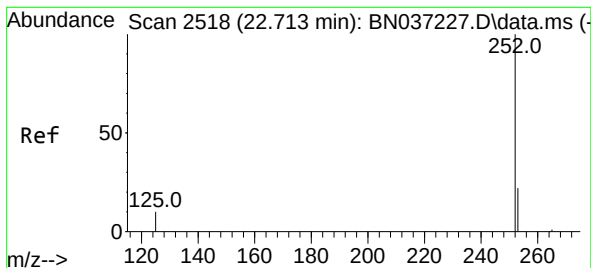


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.380 ng
 RT: 25.552 min Scan# 3489
 Delta R.T. -0.009 min
 Lab File: BN037236.D
 Acq: 13 Jun 2025 20:49



Tgt Ion:276 Resp: 3030
 Ion Ratio Lower Upper
 276 100
 138 20.2 16.8 25.2
 277 24.6 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.352 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS

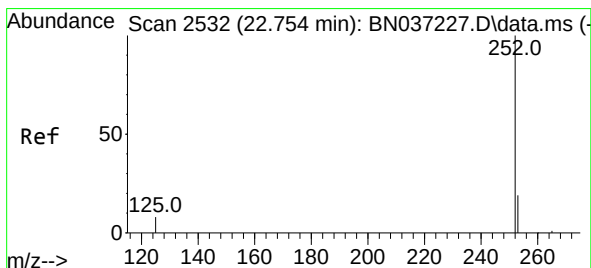
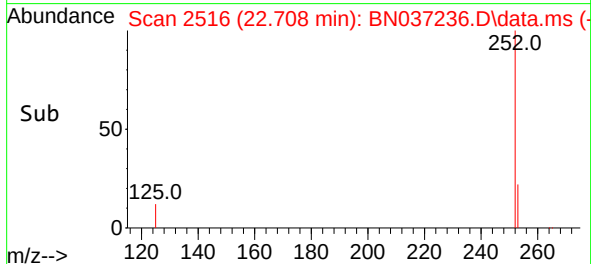
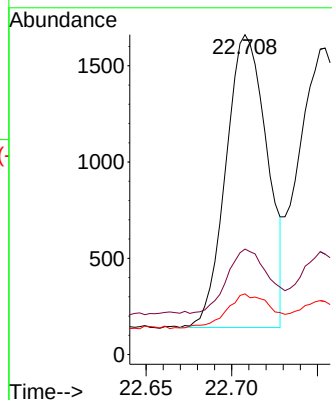
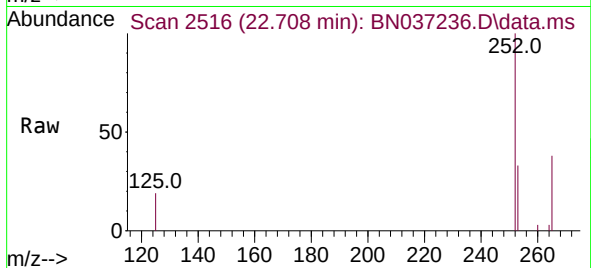
Tgt Ion:252 Resp: 2546

Ion Ratio Lower Upper

252 100

253 33.0 24.9 37.3

125 19.0 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.375 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

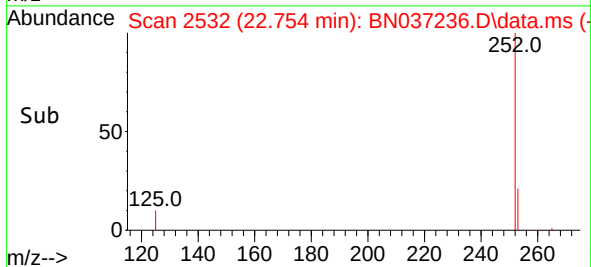
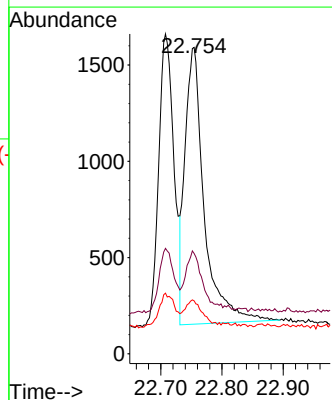
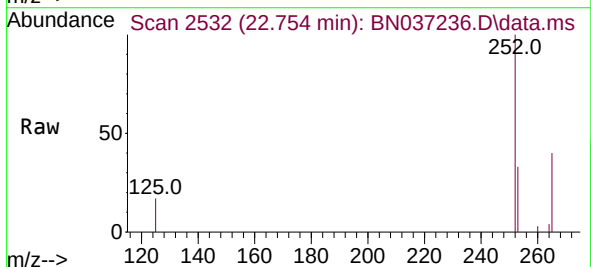
Tgt Ion:252 Resp: 3130

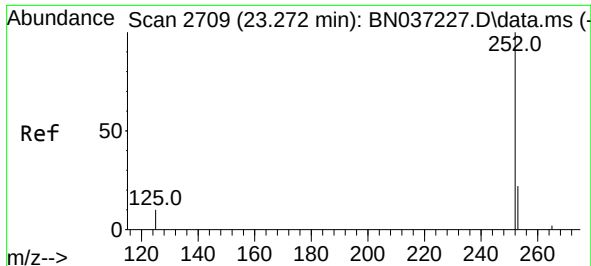
Ion Ratio Lower Upper

252 100

253 32.7 24.6 37.0

125 17.3 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.390 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037236.D

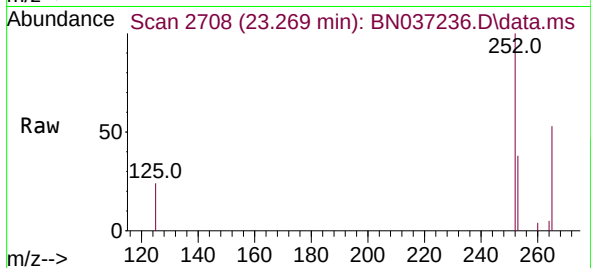
Acq: 13 Jun 2025 20:49

Instrument :

BNA_N

ClientSampleId :

PB168391BS



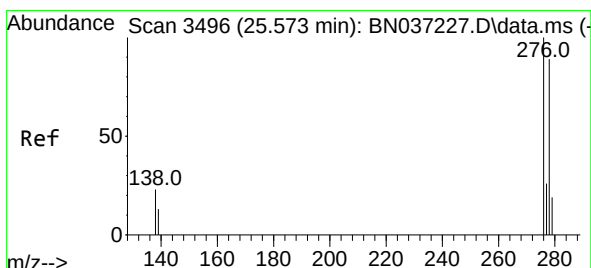
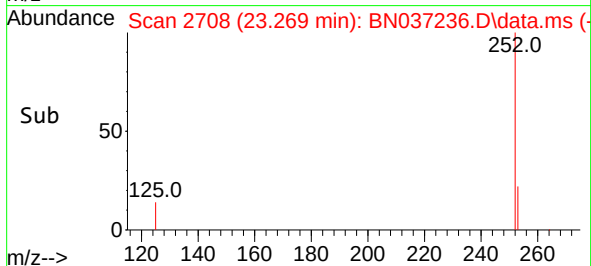
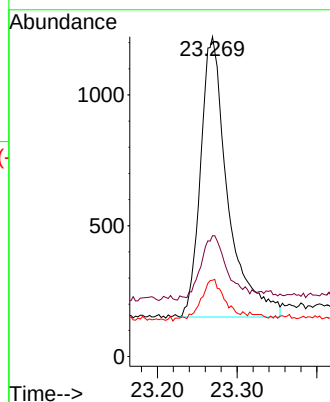
Tgt Ion:252 Resp: 2538

Ion Ratio Lower Upper

252 100

253 37.8 29.4 44.2

125 23.9 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.385 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037236.D

Acq: 13 Jun 2025 20:49

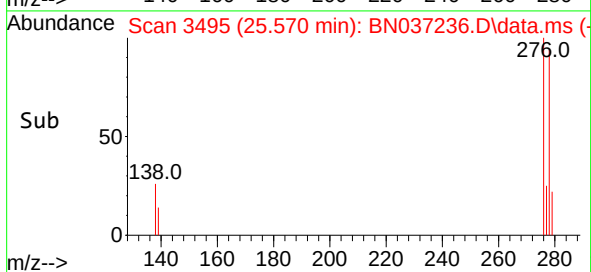
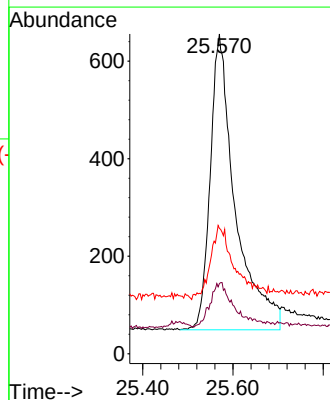
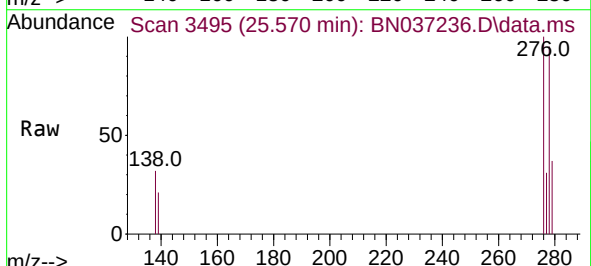
Tgt Ion:278 Resp: 2336

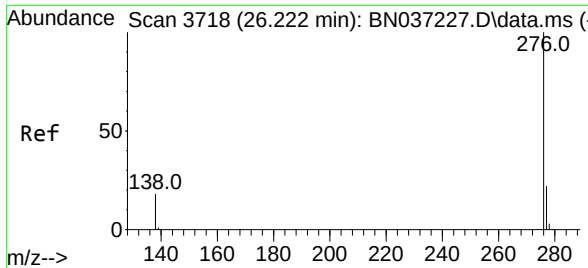
Ion Ratio Lower Upper

278 100

139 22.0 17.8 26.6

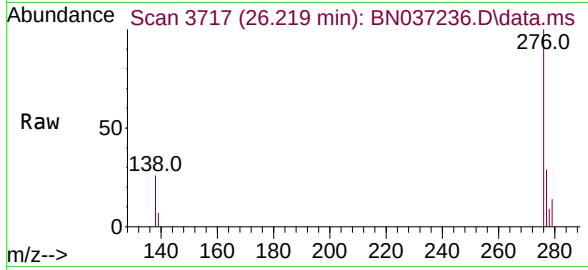
279 39.2 31.3 46.9



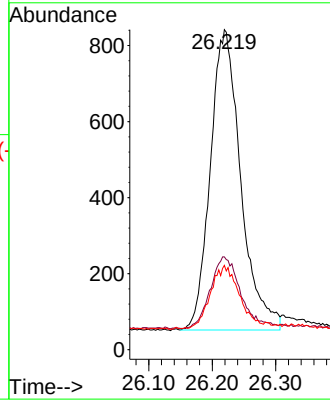
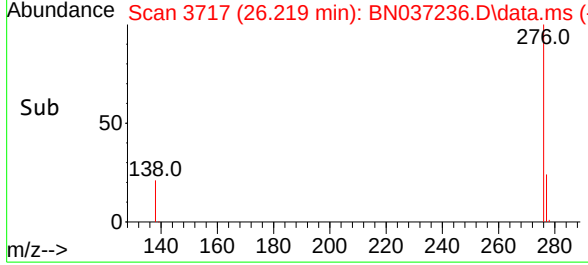


#41
Benzo(g,h,i)perylene
Concen: 0.355 ng
RT: 26.219 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN037236.D
Acq: 13 Jun 2025 20:49

Instrument :
BNA_N
ClientSampleId :
PB168391BS



Tgt Ion:	276	Resp:	2629
Ion	Ratio	Lower	Upper
276	100		
277	29.0	22.0	33.0
138	26.4	18.4	27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
 Data File : BN037237.D
 Acq On : 13 Jun 2025 21:25
 Operator : RC/JU
 Sample : PB168391BSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168391BSD

Quant Time: Jun 13 23:00:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 13 18:43:34 2025
 Response via : Initial Calibration

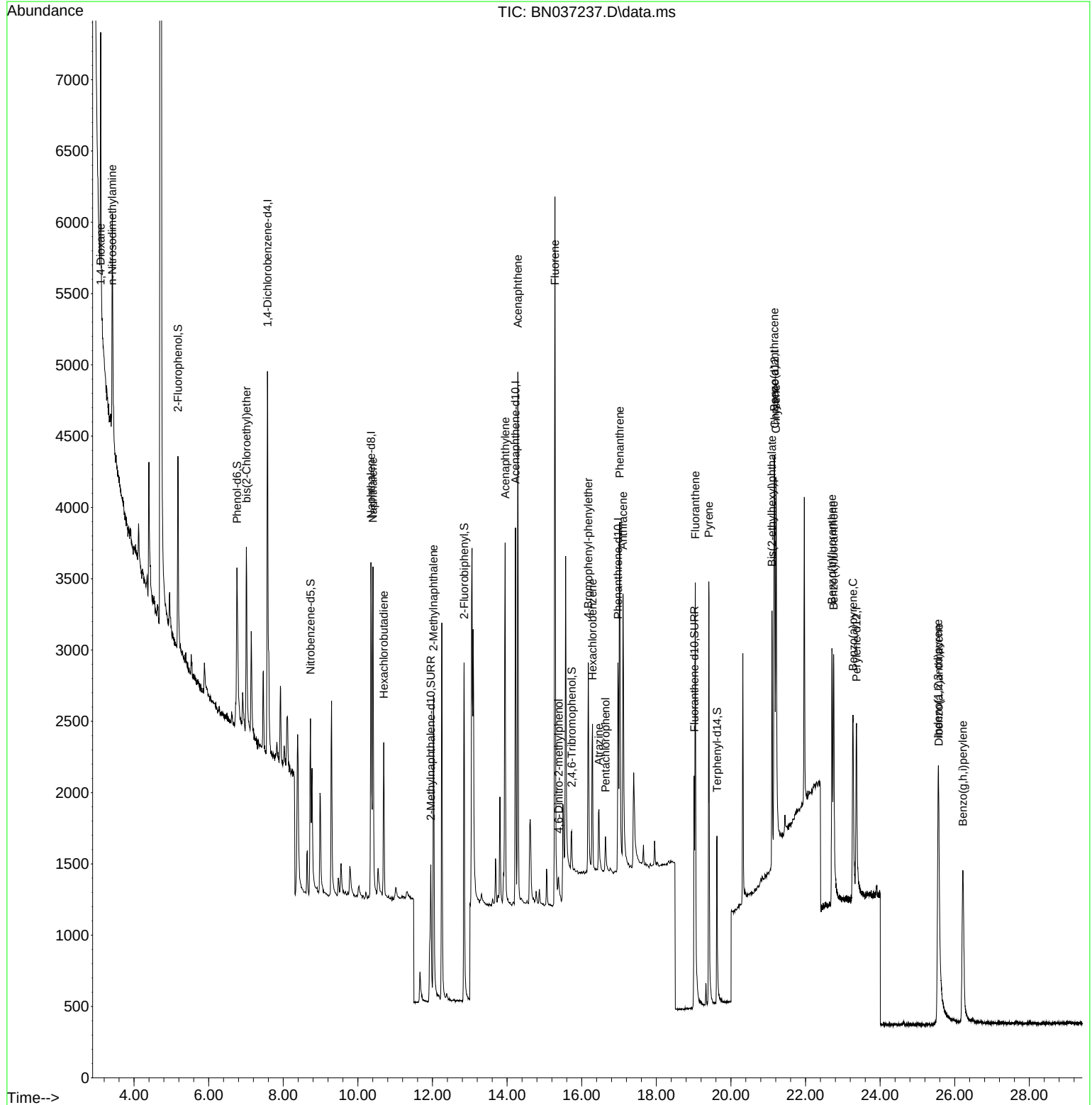
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	1340	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3197	0.400	ng	#-0.01
13) Acenaphthene-d10	14.224	164	1517	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2544	0.400	ng	0.00
29) Chrysene-d12	21.171	240	1864	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	1823	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.177	112	1074	0.326	ng	0.00
5) Phenol-d6	6.759	99	1133	0.327	ng	0.00
8) Nitrobenzene-d5	8.728	82	1094	0.346	ng	0.00
11) 2-Methylnaphthalene-d10	11.955	152	2318	0.540	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	191	0.303	ng	0.00
15) 2-Fluorobiphenyl	12.848	172	2414	0.379	ng	0.00
27) Fluoranthene-d10	19.017	212	2260	0.340	ng	0.00
31) Terphenyl-d14	19.625	244	1545	0.367	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	767	0.417	ng	# 39
3) n-Nitrosodimethylamine	3.415	42	1445	0.345	ng	# 98
6) bis(2-Chloroethyl)ether	7.012	93	1087	0.350	ng	95
9) Naphthalene	10.404	128	3142	0.339	ng	100
10) Hexachlorobutadiene	10.693	225	809	0.359	ng	# 96
12) 2-Methylnaphthalene	12.026	142	1733	0.308	ng	98
16) Acenaphthylene	13.946	152	2835	0.381	ng	98
17) Acenaphthene	14.288	154	1676	0.349	ng	99
18) Fluorene	15.282	166	2139	0.347	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	183	0.391	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	601	0.363	ng	97
22) Hexachlorobenzene	16.289	284	730	0.380	ng	98
23) Atrazine	16.462	200	554	0.375	ng	95
24) Pentachlorophenol	16.636	266	179	0.190	ng	96
25) Phenanthrene	17.021	178	2878	0.357	ng	99
26) Anthracene	17.108	178	2707	0.366	ng	99
28) Fluoranthene	19.045	202	3075	0.326	ng	99
30) Pyrene	19.407	202	3164	0.361	ng	99
32) Benzo(a)anthracene	21.162	228	2335	0.371	ng	100
33) Chrysene	21.206	228	2859	0.365	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	1653	0.353	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.552	276	2941	0.400	ng	99
37) Benzo(b)fluoranthene	22.708	252	2370	0.355	ng	95
38) Benzo(k)fluoranthene	22.752	252	2685	0.349	ng	96
39) Benzo(a)pyrene	23.272	252	2338	0.390	ng	# 93
40) Dibenzo(a,h)anthracene	25.570	278	2093	0.374	ng	98
41) Benzo(g,h,i)perylene	26.216	276	2507	0.368	ng	97

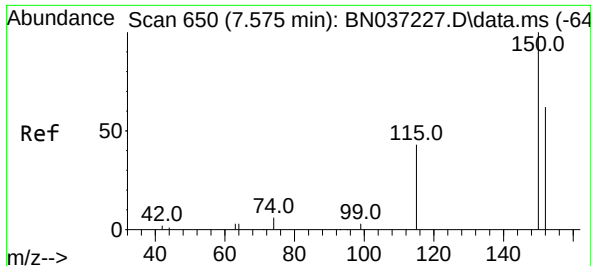
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061325\
Data File : BN037237.D
Acq On : 13 Jun 2025 21:25
Operator : RC/JU
Sample : PB168391BSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

Quant Time: Jun 13 23:00:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 13 18:43:34 2025
Response via : Initial Calibration

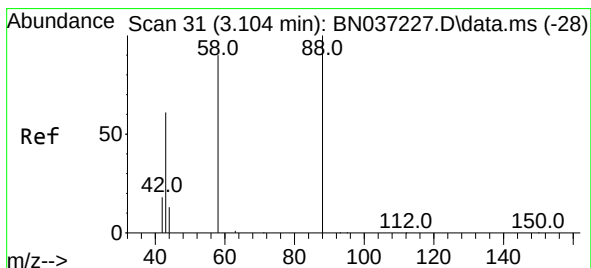
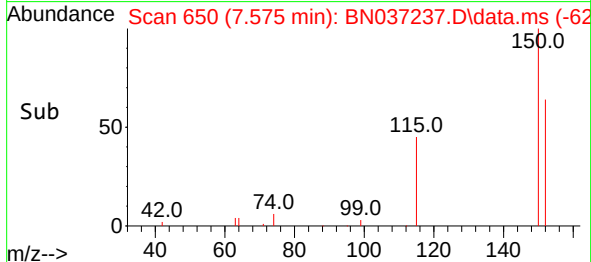
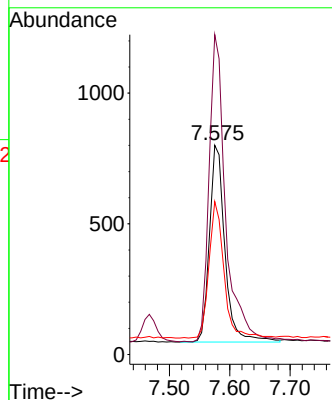
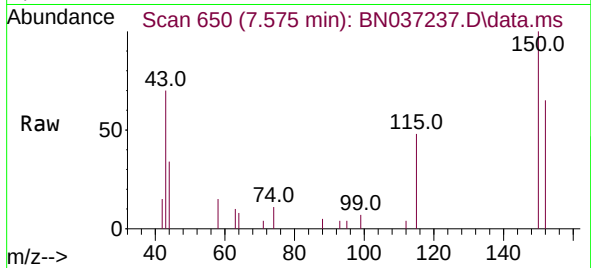




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

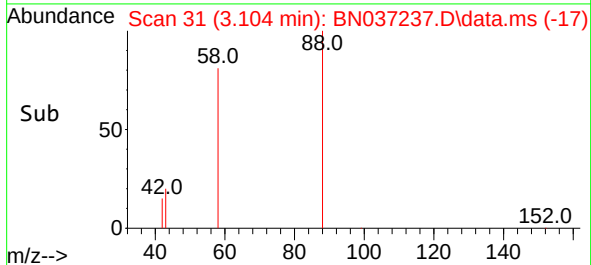
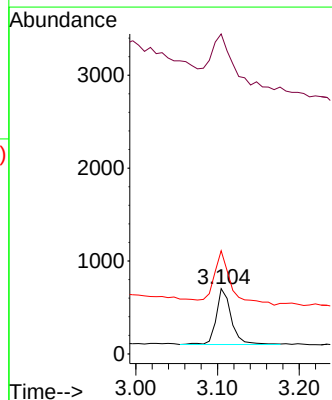
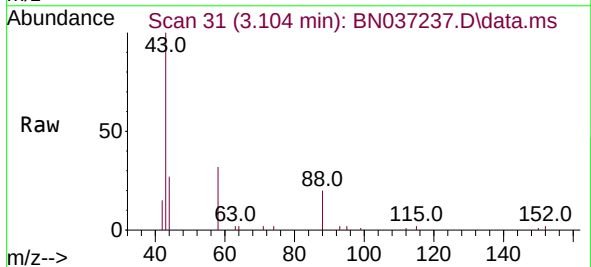
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

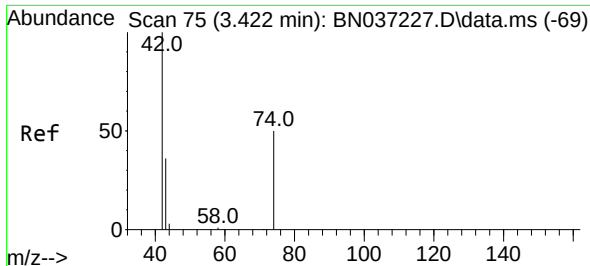
Tgt Ion:152 Resp: 1340
Ion Ratio Lower Upper
152 100
150 152.8 125.2 187.8
115 73.0 58.4 87.6



#2
1,4-Dioxane
Concen: 0.417 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion: 88 Resp: 767
Ion Ratio Lower Upper
88 100
43 158.5 52.6 79.0#
58 112.0 73.5 110.3#

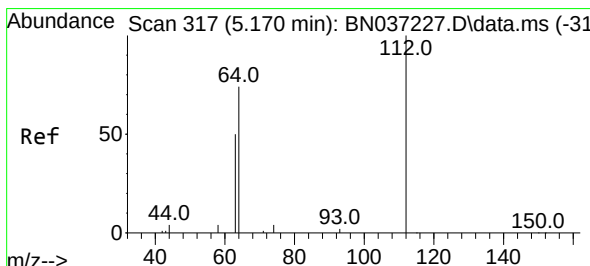
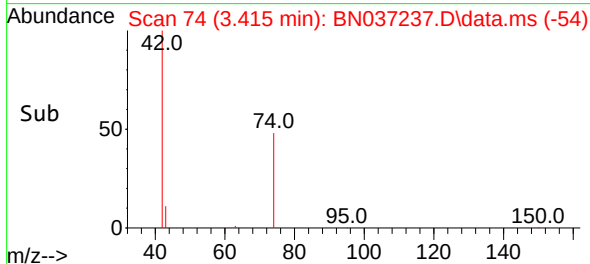
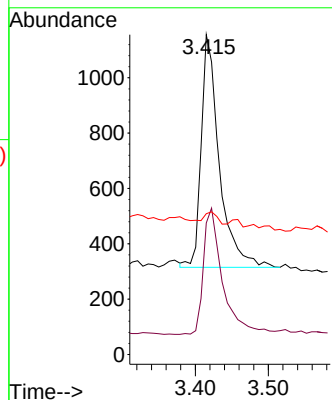
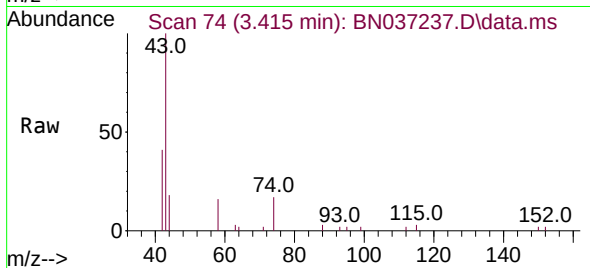




#3
 n-Nitrosodimethylamine
 Concen: 0.345 ng
 RT: 3.415 min Scan# 74
 Delta R.T. -0.007 min
 Lab File: BN037237.D
 Acq: 13 Jun 2025 21:25

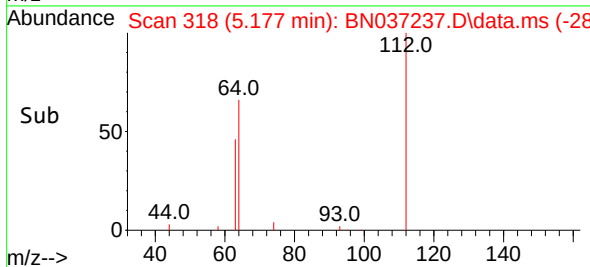
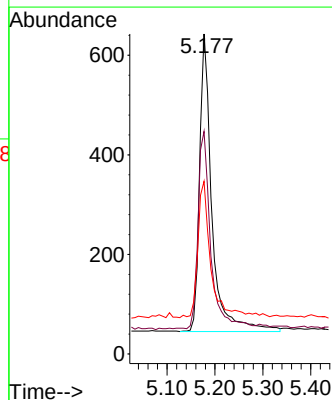
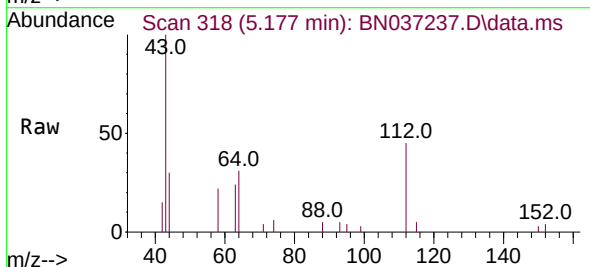
Instrument :
 BNA_N
 ClientSampleId :
 PB168391BSD

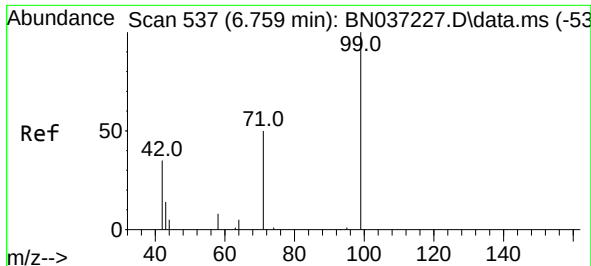
Tgt Ion: 42 Resp: 1445
 Ion Ratio Lower Upper
 42 100
 74 57.4 44.6 66.8
 44 3.4 3.5 5.3#



#4
 2-Fluorophenol
 Concen: 0.326 ng
 RT: 5.177 min Scan# 318
 Delta R.T. 0.007 min
 Lab File: BN037237.D
 Acq: 13 Jun 2025 21:25

Tgt Ion: 112 Resp: 1074
 Ion Ratio Lower Upper
 112 100
 64 68.0 57.2 85.8
 63 48.6 39.8 59.6

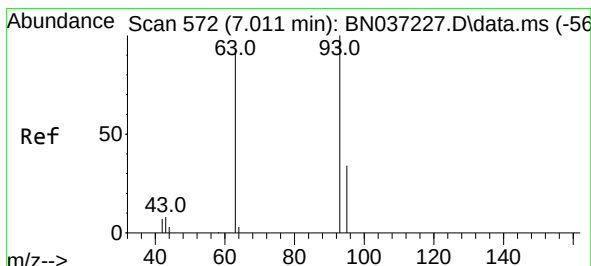
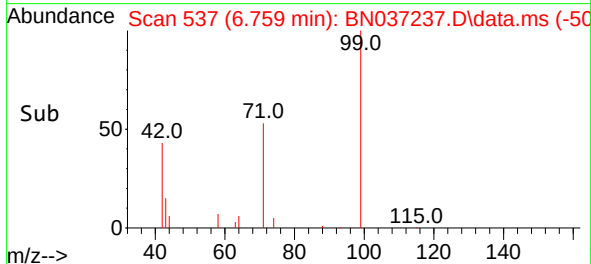
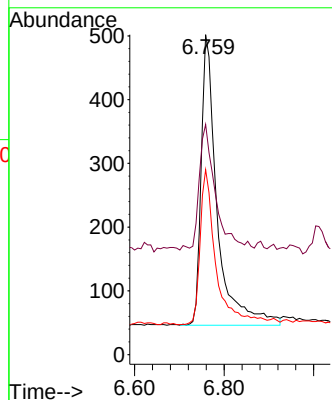
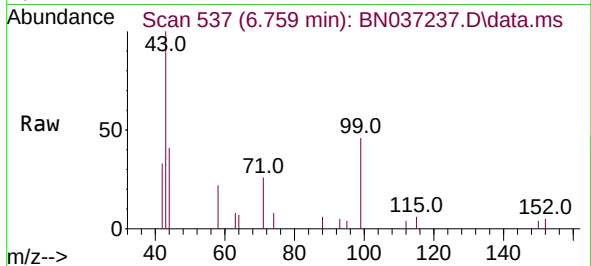




#5
Phenol-d6
Concen: 0.327 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

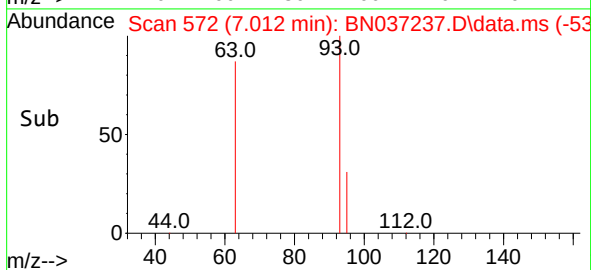
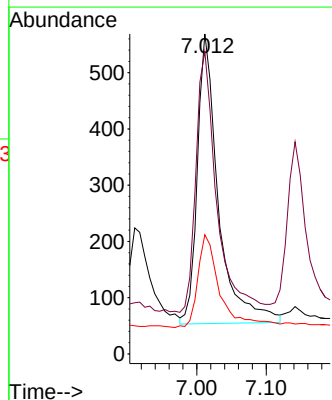
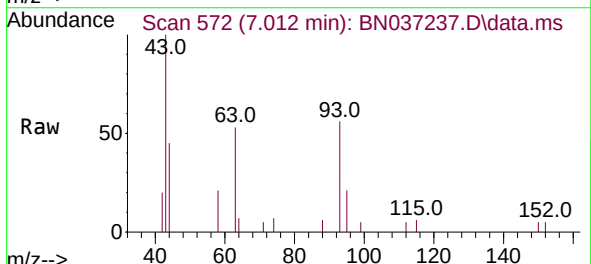
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

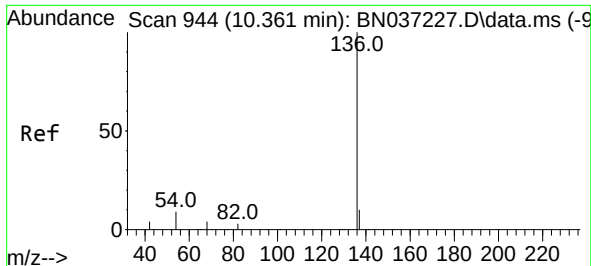
Tgt Ion:	99	Resp:	1133
Ion	Ratio	Lower	Upper
99	100		
42	44.2	36.2	54.4
71	52.5	42.4	63.6



#6
bis(2-Chloroethyl)ether
Concen: 0.350 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:	93	Resp:	1087
Ion	Ratio	Lower	Upper
93	100		
63	87.8	75.2	112.8
95	33.8	28.3	42.5

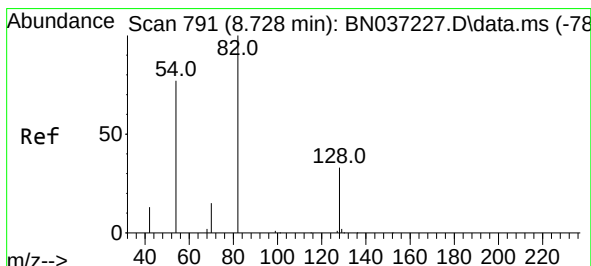
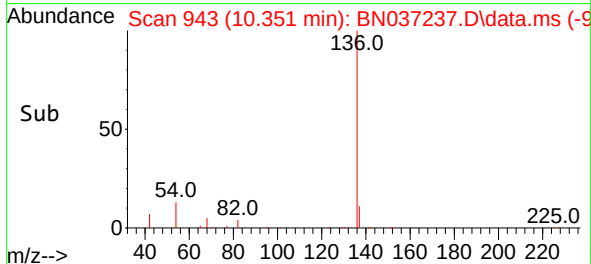
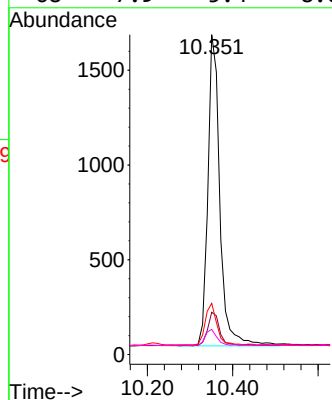
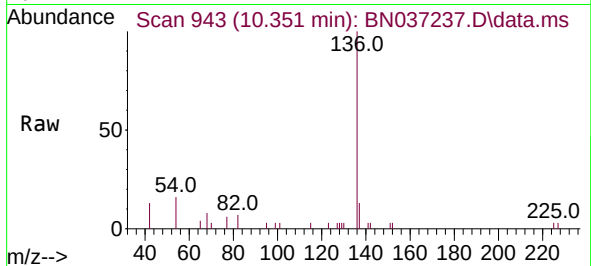




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

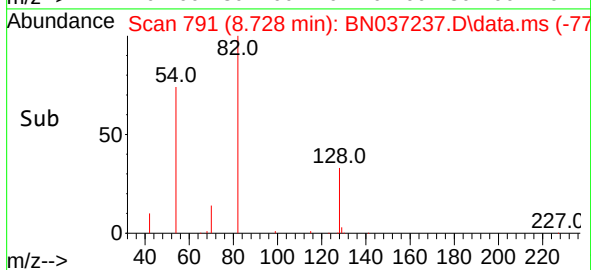
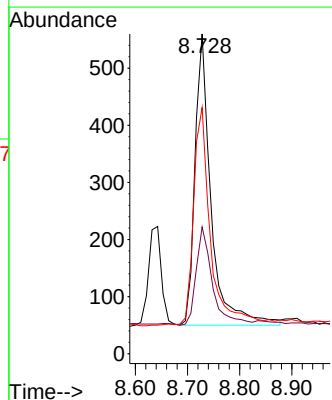
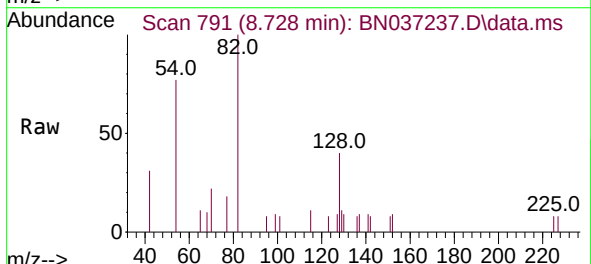
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

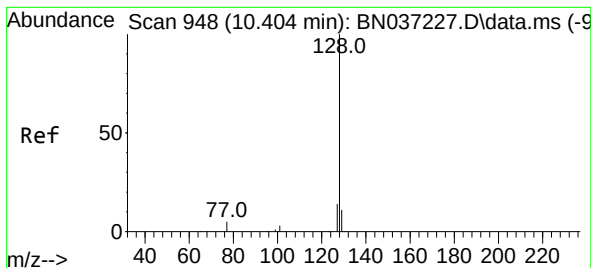
Tgt Ion:	136	Resp:	3197
Ion	Ratio	Lower	Upper
136	100		
137	13.2	10.6	15.8
54	16.0	9.2	13.8
68	7.9	5.4	8.0



#8
Nitrobenzene-d5
Concen: 0.346 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:	82	Resp:	1094
Ion	Ratio	Lower	Upper
82	100		
128	39.6	31.2	46.8
54	77.0	63.3	94.9





#9

Naphthalene

Concen: 0.339 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

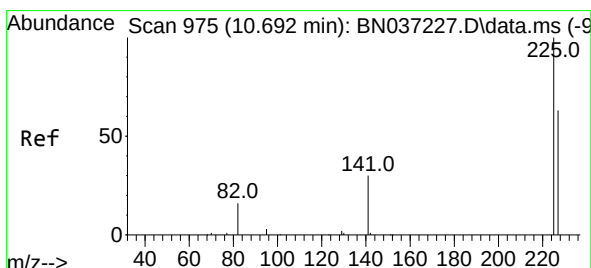
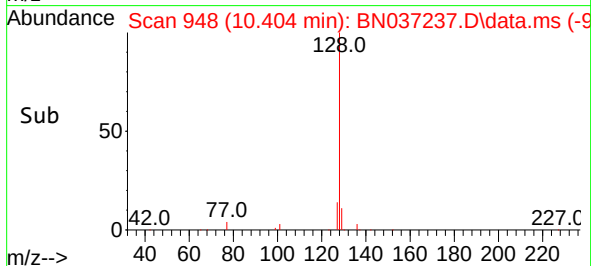
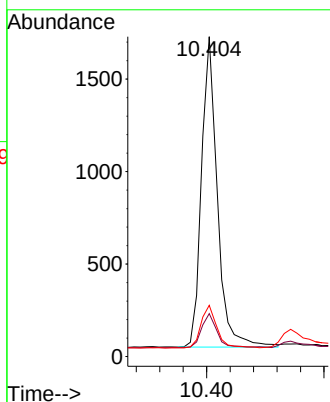
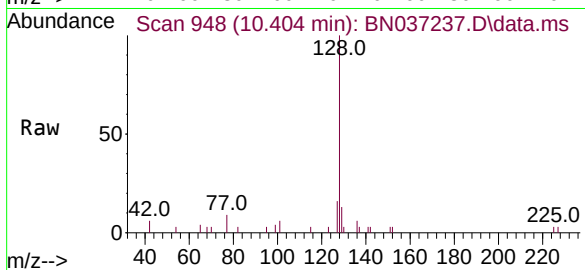
Instrument :

BNA_N

ClientSampleId :

PB168391BSD

Tgt Ion:	128	Resp:	3142
Ion	Ratio	Lower	Upper
128	100		
129	13.4	10.7	16.1
127	16.0	12.6	19.0



#10

Hexachlorobutadiene

Concen: 0.359 ng

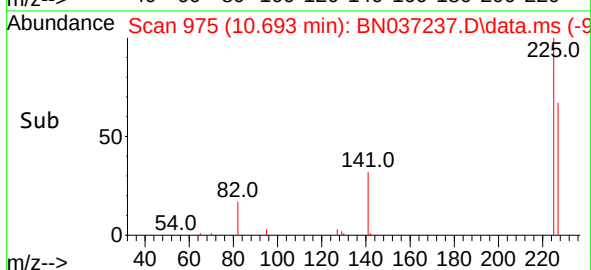
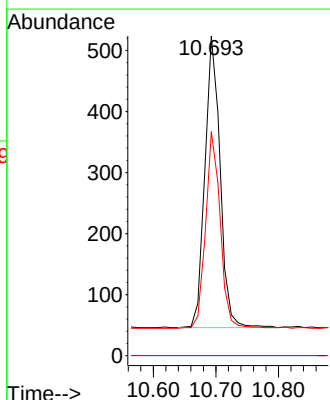
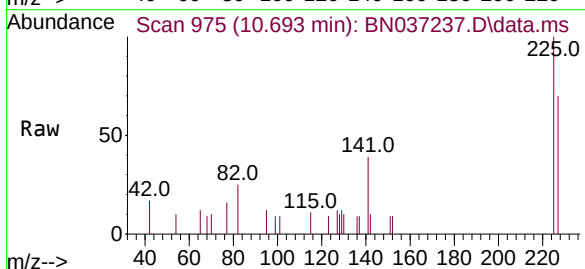
RT: 10.693 min Scan# 975

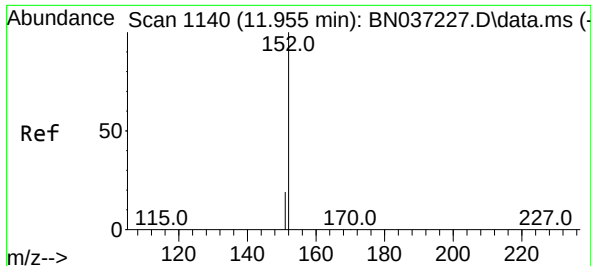
Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Tgt Ion:	225	Resp:	809
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	49.2	73.8

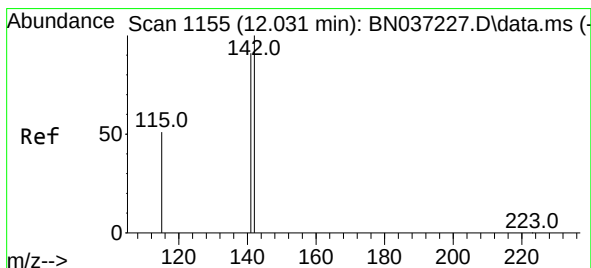
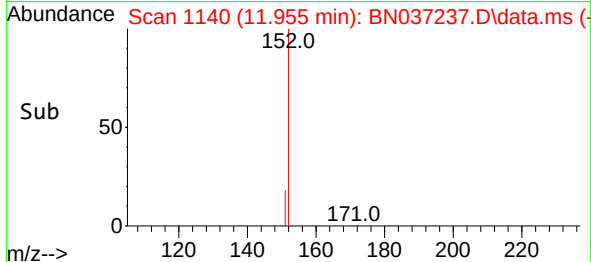
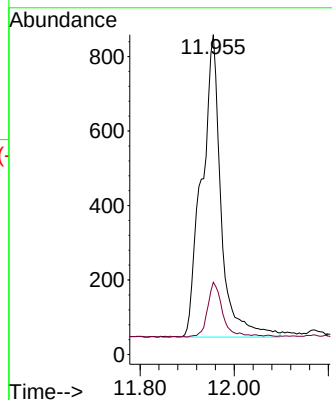
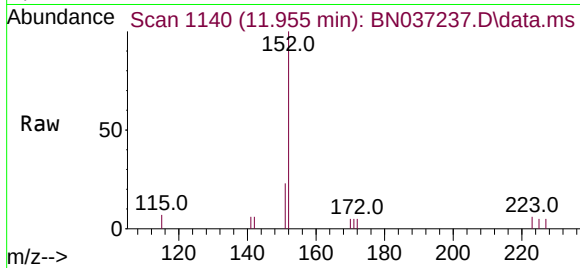




#11
2-Methylnaphthalene-d10
Concen: 0.540 ng
RT: 11.955 min Scan# 1140
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

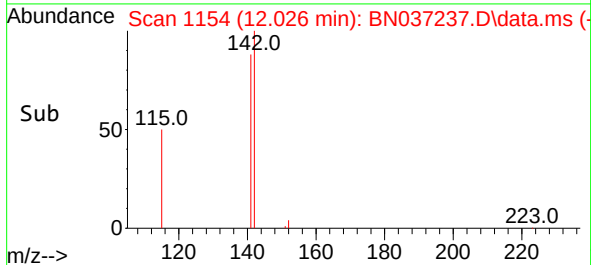
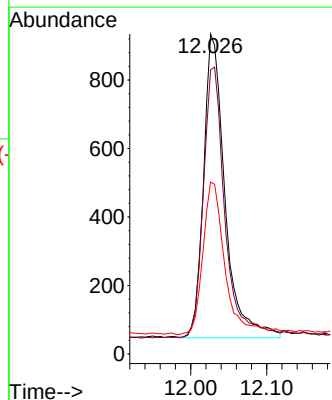
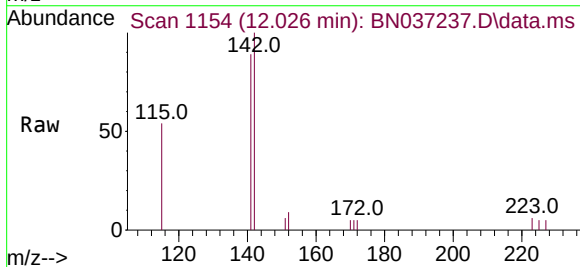
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

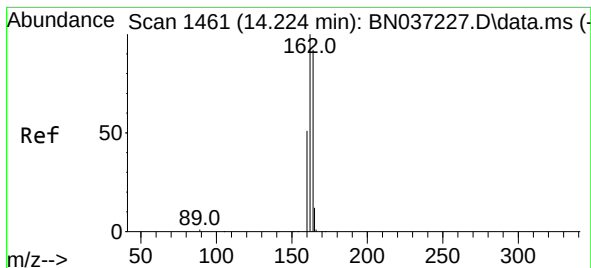
Tgt Ion:152 Resp: 2318
Ion Ratio Lower Upper
152 100
151 14.0 17.9 26.9#



#12
2-Methylnaphthalene
Concen: 0.308 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.005 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:142 Resp: 1733
Ion Ratio Lower Upper
142 100
141 88.8 73.0 109.6
115 53.7 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD

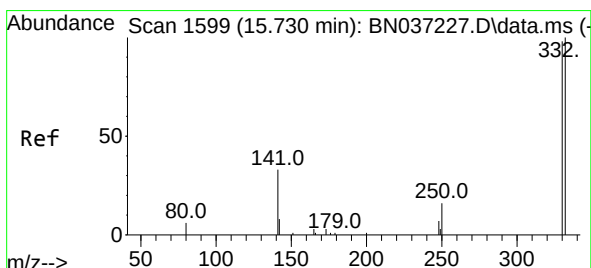
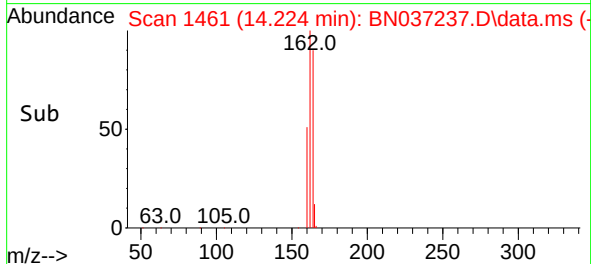
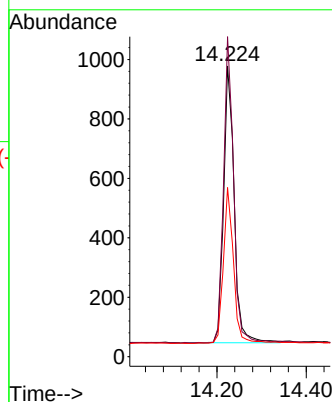
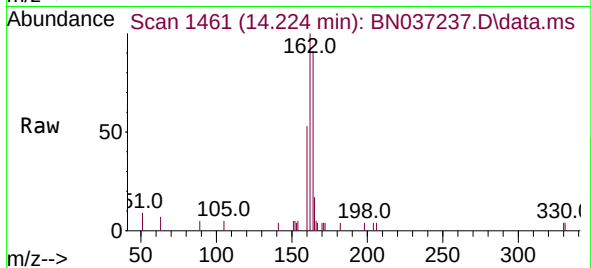
Tgt Ion:164 Resp: 1517

Ion Ratio Lower Upper

164 100

162 110.1 86.7 130.1

160 58.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.303 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

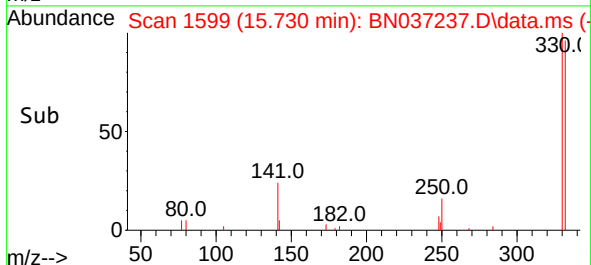
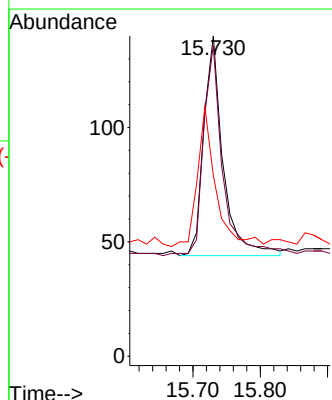
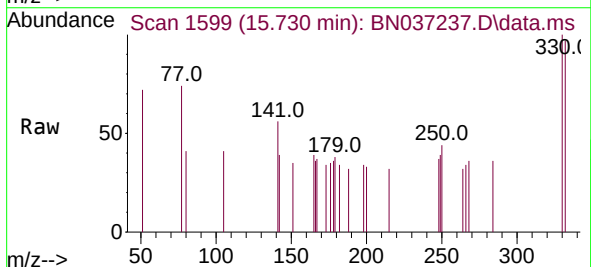
Tgt Ion:330 Resp: 191

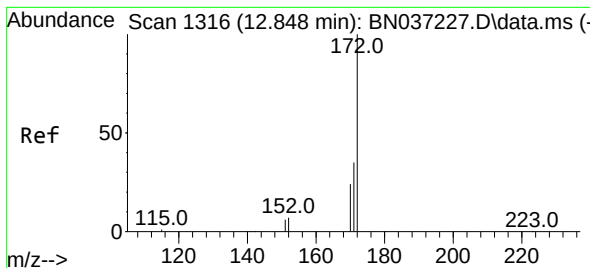
Ion Ratio Lower Upper

330 100

332 96.9 74.9 112.3

141 59.7 45.1 67.7

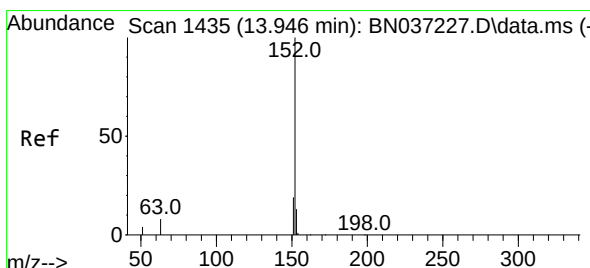
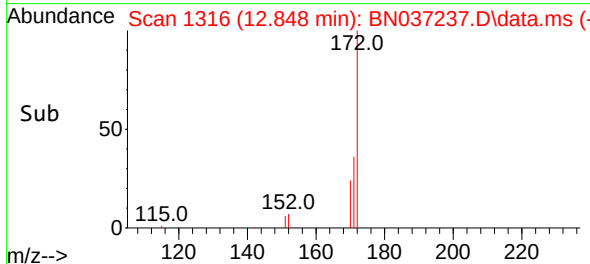
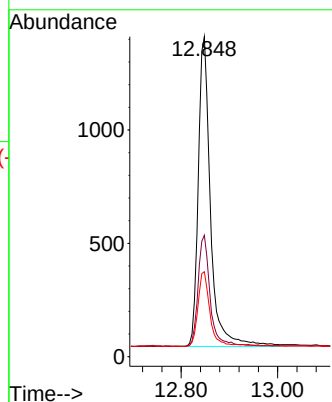
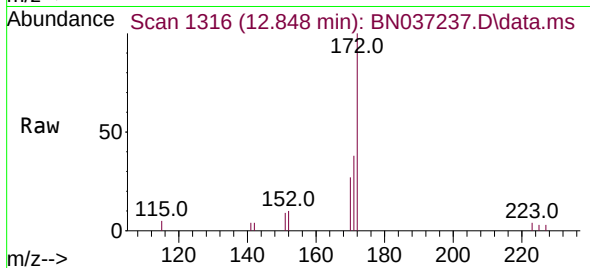




#15
2-Fluorobiphenyl
Concen: 0.379 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

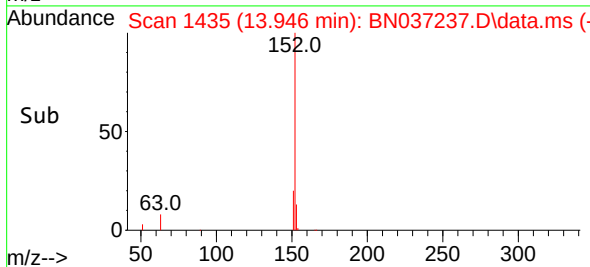
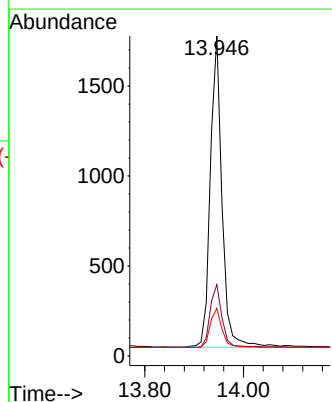
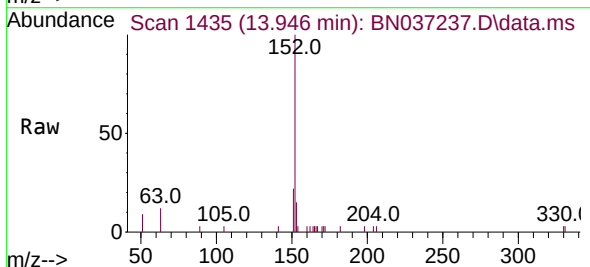
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

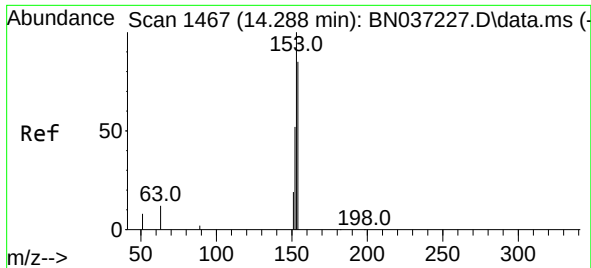
Tgt Ion:	172	Resp:	2414
Ion Ratio	Lower	Upper	
172	100		
171	38.0	29.8	44.8
170	26.6	21.1	31.7



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:	152	Resp:	2835
Ion Ratio	Lower	Upper	
152	100		
151	20.4	15.7	23.5
153	12.8	10.7	16.1

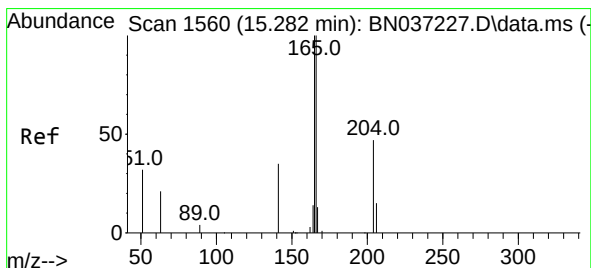
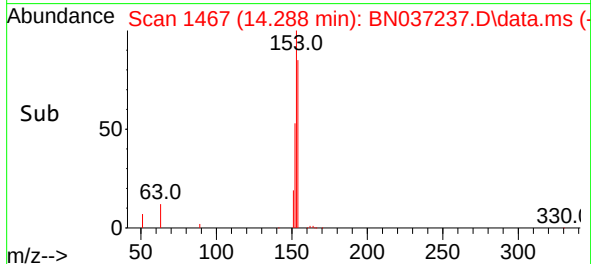
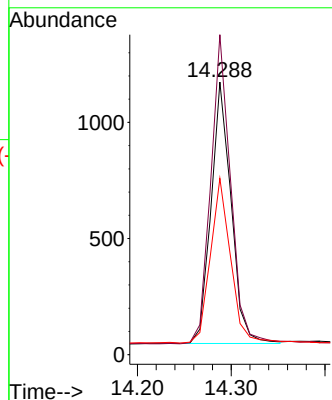
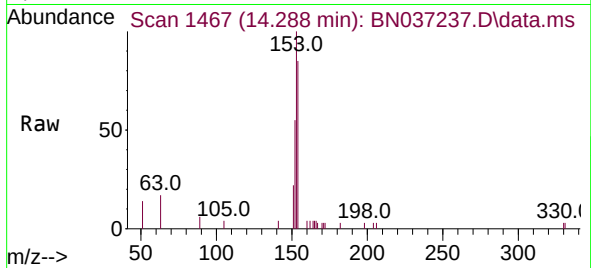




#17
Acenaphthene
Concen: 0.349 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

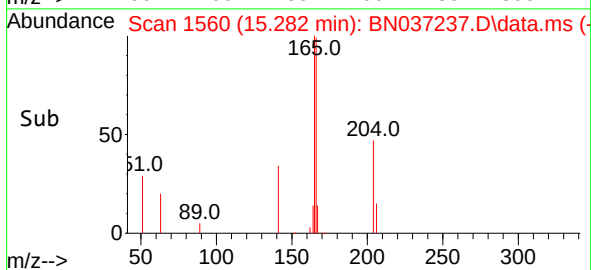
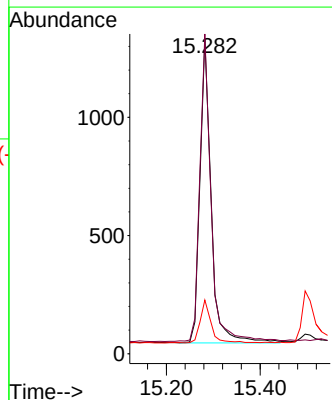
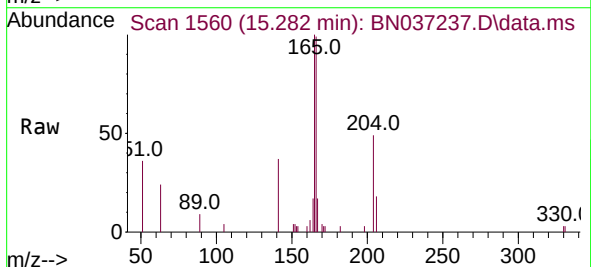
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

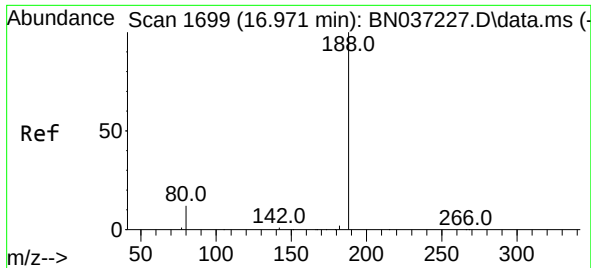
Tgt Ion:154 Resp: 1676
Ion Ratio Lower Upper
154 100
153 119.2 94.6 141.8
152 63.5 49.6 74.4



#18
Fluorene
Concen: 0.347 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:166 Resp: 2139
Ion Ratio Lower Upper
166 100
165 100.4 79.8 119.6
167 13.7 10.8 16.2

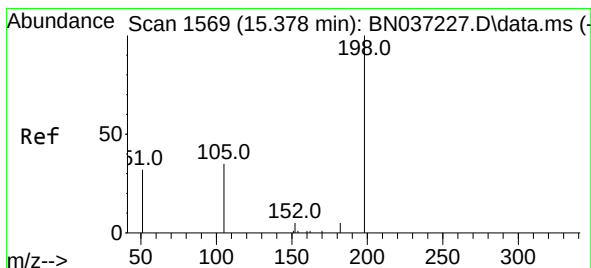
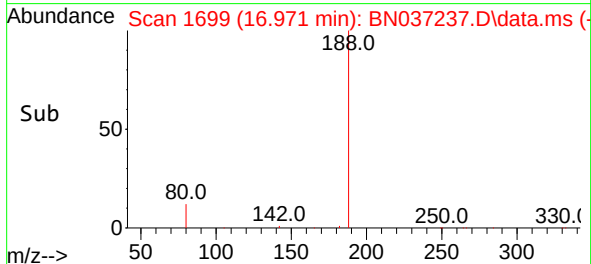
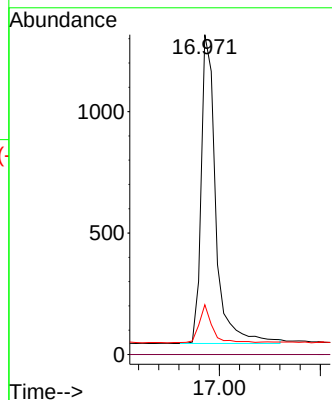
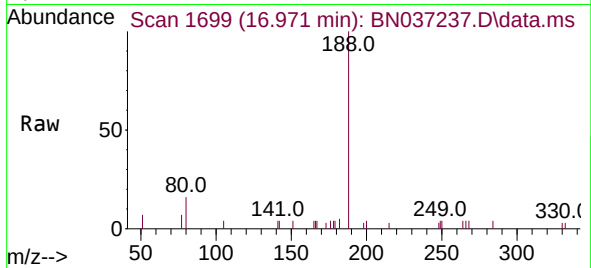




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

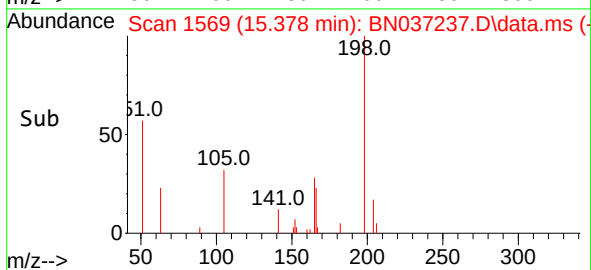
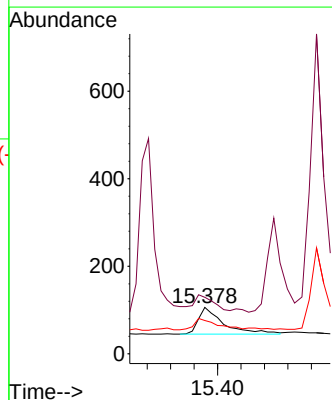
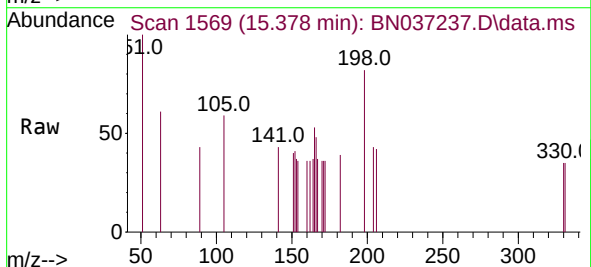
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

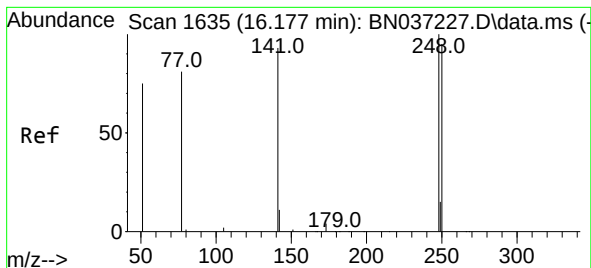
Tgt Ion:188 Resp: 2544
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.6 12.2 18.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.391 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:198 Resp: 183
Ion Ratio Lower Upper
198 100
51 121.7 111.2 166.8
105 71.7 54.0 81.0

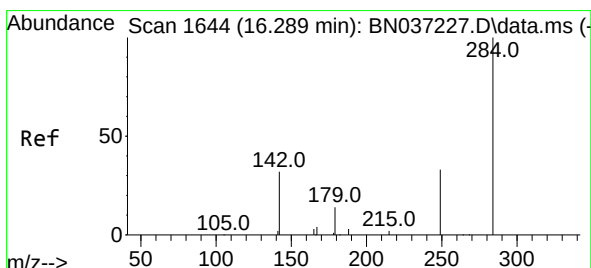
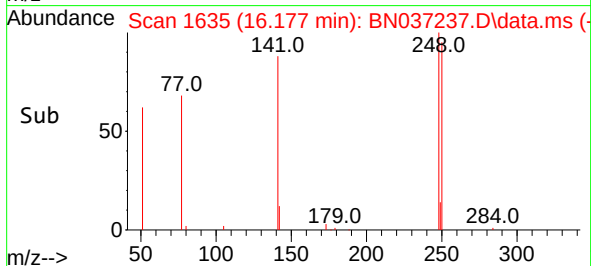
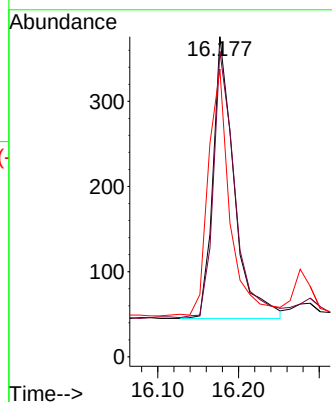
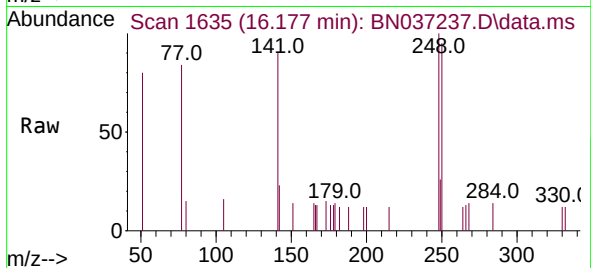




#21
4-Bromophenyl-phenylether
Concen: 0.363 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

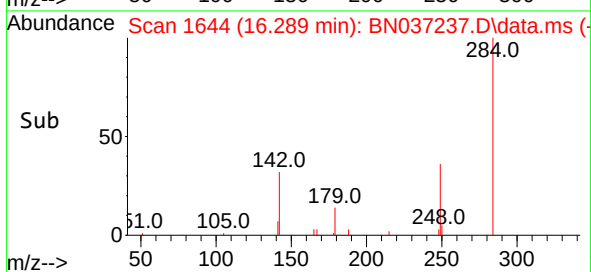
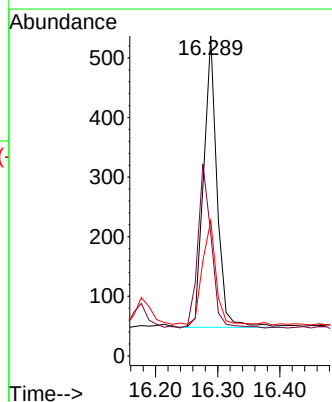
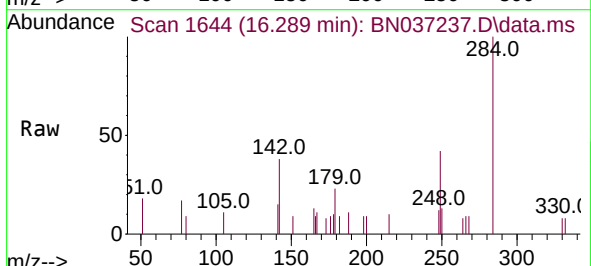
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

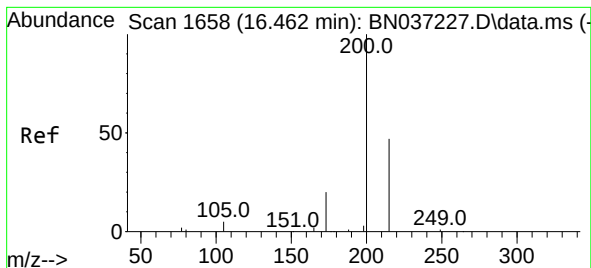
Tgt Ion:	248	Resp:	601
Ion	Ratio	Lower	Upper
248	100		
250	95.5	76.8	115.2
141	89.9	75.6	113.4



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:	284	Resp:	730
Ion	Ratio	Lower	Upper
284	100		
142	56.7	43.8	65.6
249	36.2	28.4	42.6





#23

Atrazine

Concen: 0.375 ng

RT: 16.462 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD

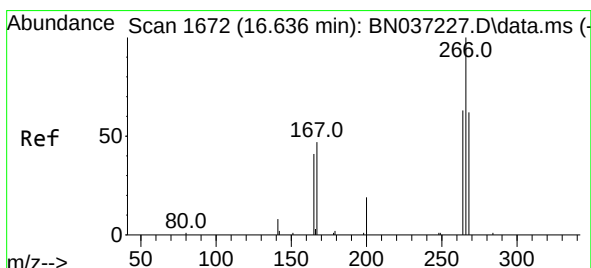
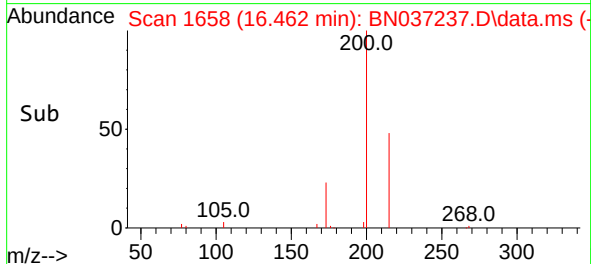
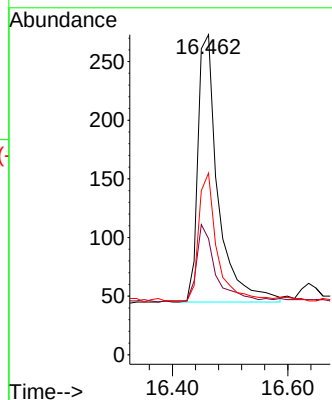
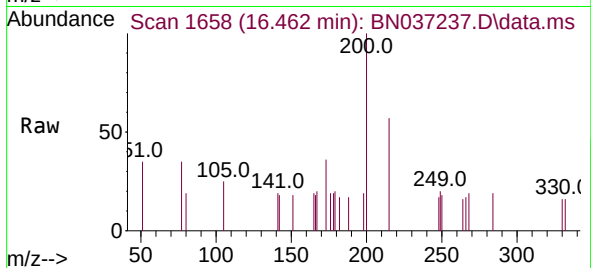
Tgt Ion:200 Resp: 554

Ion Ratio Lower Upper

200 100

173 36.3 25.1 37.7

215 56.8 43.7 65.5



#24

Pentachlorophenol

Concen: 0.190 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

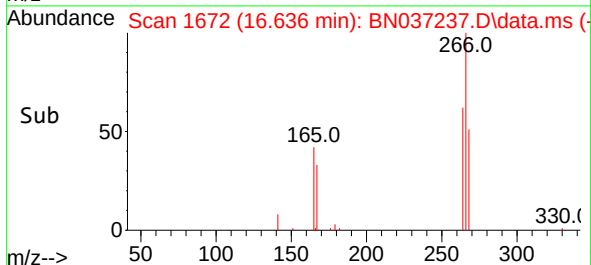
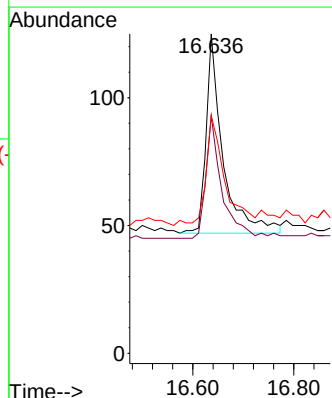
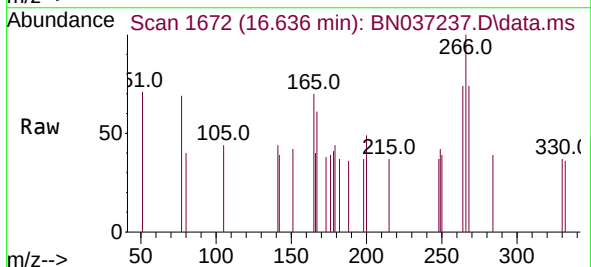
Tgt Ion:266 Resp: 179

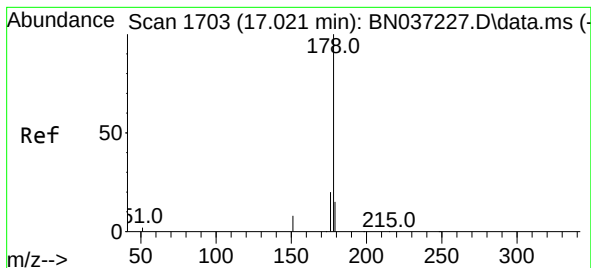
Ion Ratio Lower Upper

266 100

264 59.8 49.2 73.8

268 62.0 53.4 80.2





#25

Phenanthrene

Concen: 0.357 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD

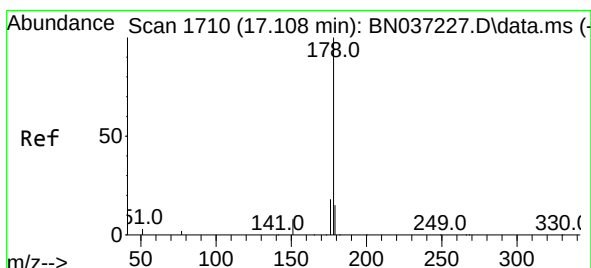
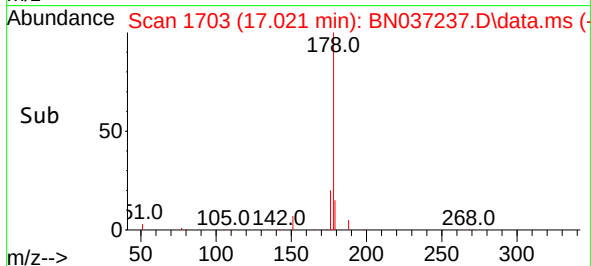
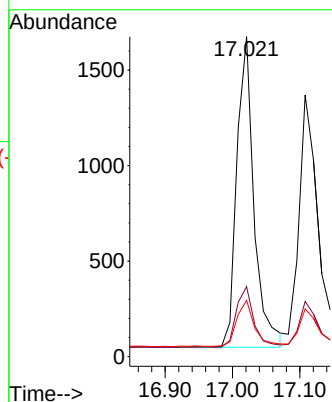
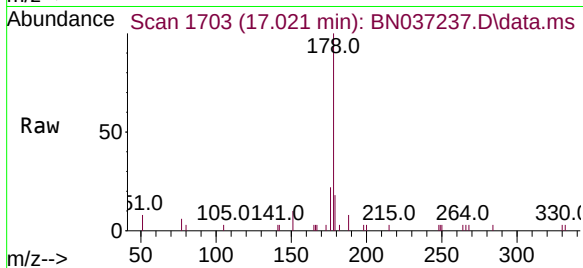
Tgt Ion:178 Resp: 2878

Ion Ratio Lower Upper

178 100

176 19.9 16.3 24.5

179 15.3 12.6 18.8



#26

Anthracene

Concen: 0.366 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

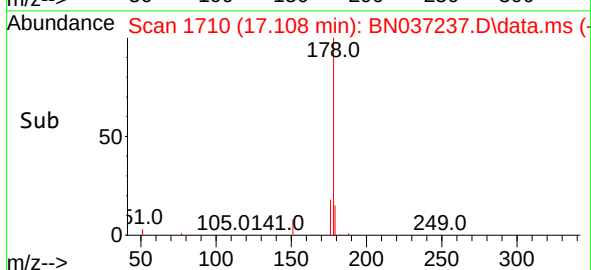
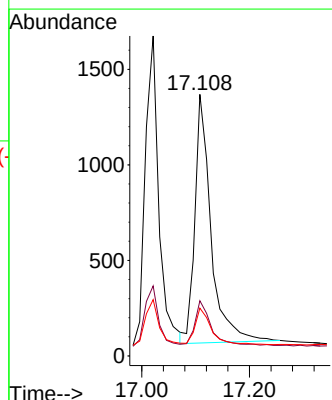
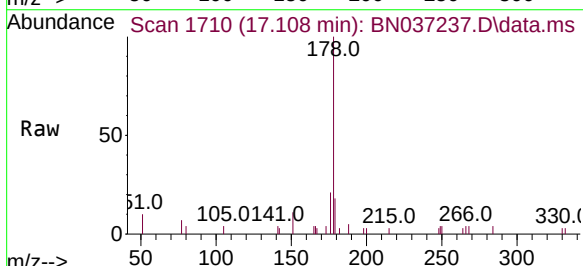
Tgt Ion:178 Resp: 2707

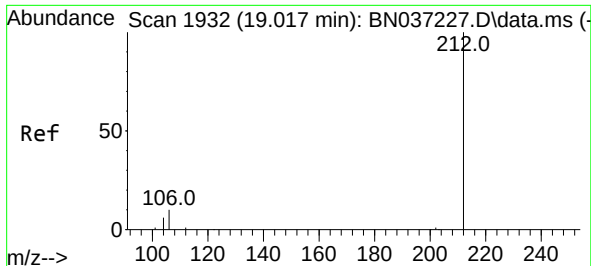
Ion Ratio Lower Upper

178 100

176 18.4 15.1 22.7

179 15.1 12.4 18.6

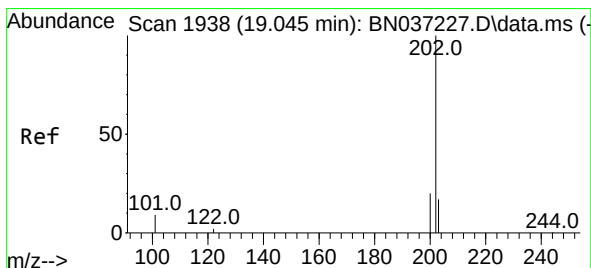
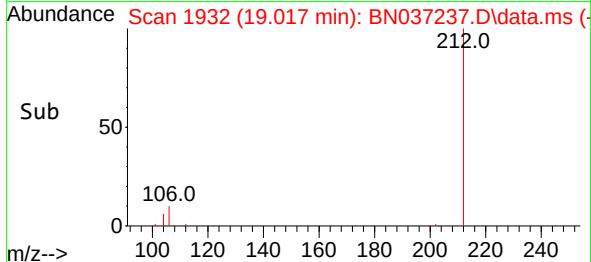
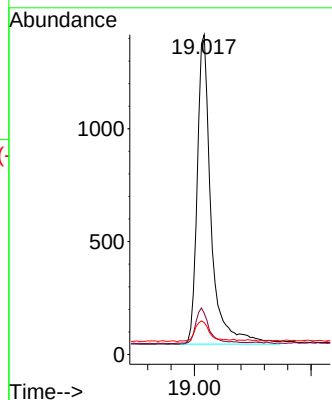
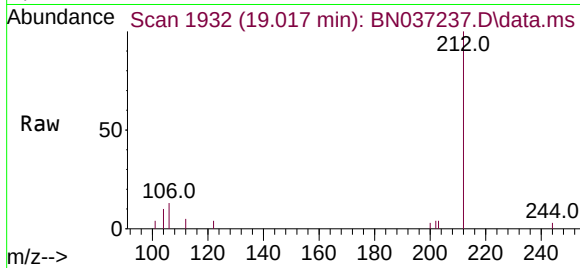




#27
Fluoranthene-d10
Concen: 0.340 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

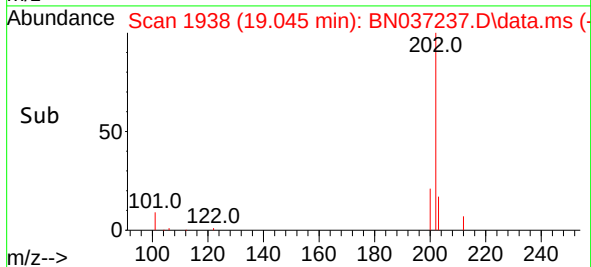
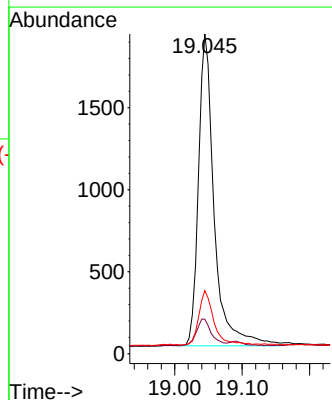
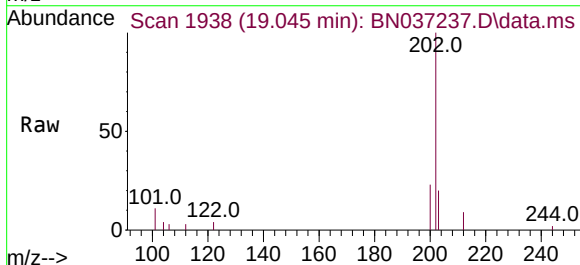
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

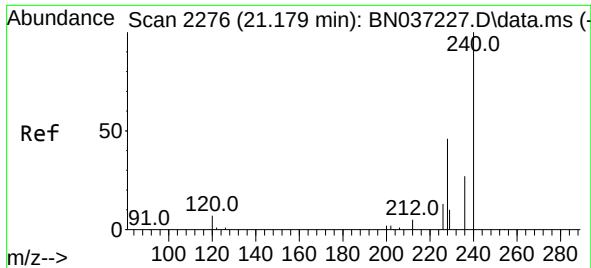
Tgt Ion	Ratio	Lower	Upper
212	100		
106	11.2	9.3	13.9
104	7.4	5.7	8.5



#28
Fluoranthene
Concen: 0.326 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.000 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.2	7.1	10.7
203	16.7	13.0	19.6

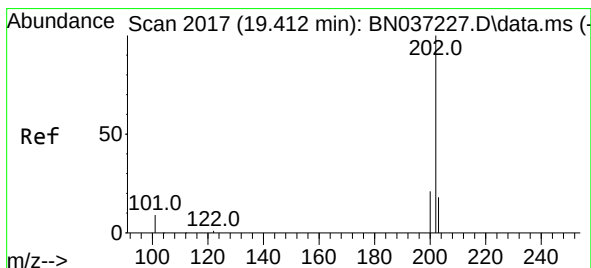
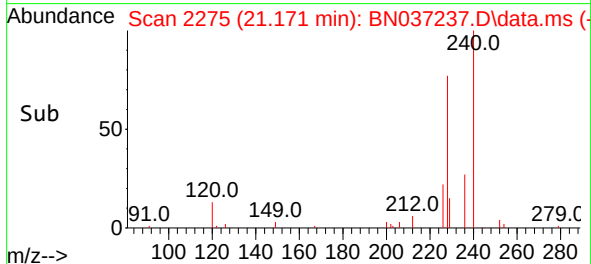
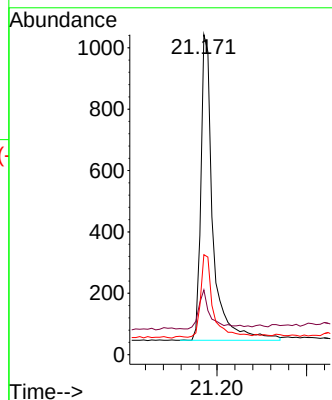
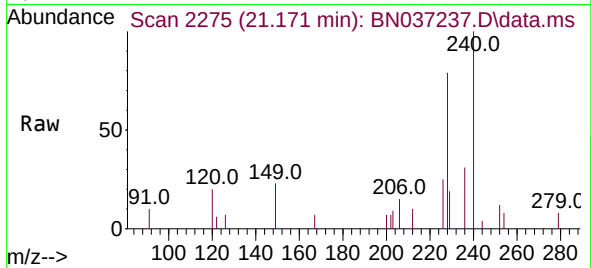




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

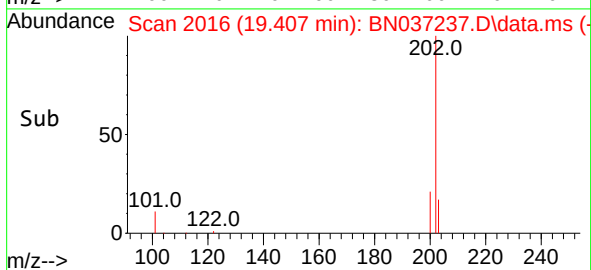
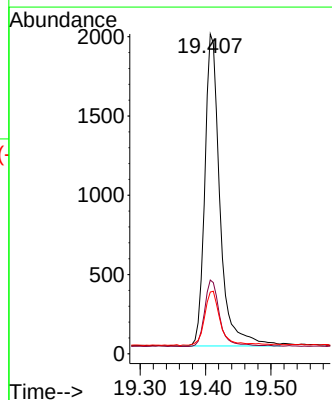
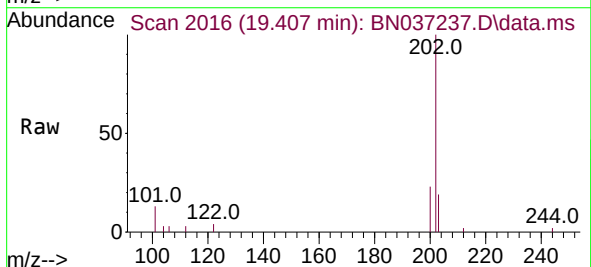
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

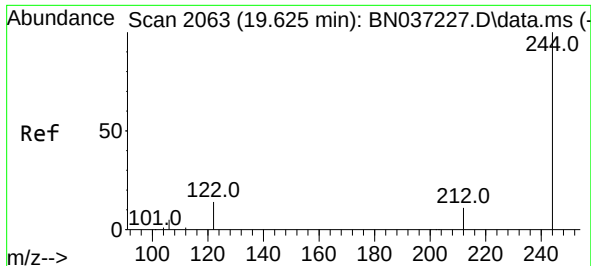
Tgt Ion:240 Resp: 1864
Ion Ratio Lower Upper
240 100
120 20.2 11.3 16.9#
236 31.3 24.4 36.6



#30
Pyrene
Concen: 0.361 ng
RT: 19.407 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

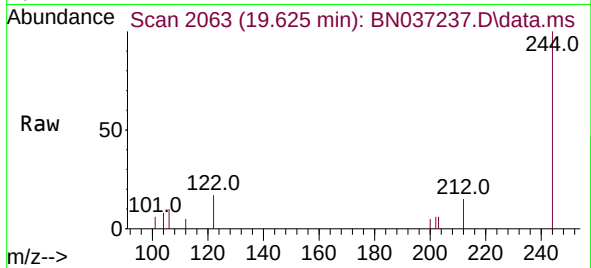
Tgt Ion:202 Resp: 3164
Ion Ratio Lower Upper
202 100
200 20.9 17.2 25.8
203 18.6 14.3 21.5



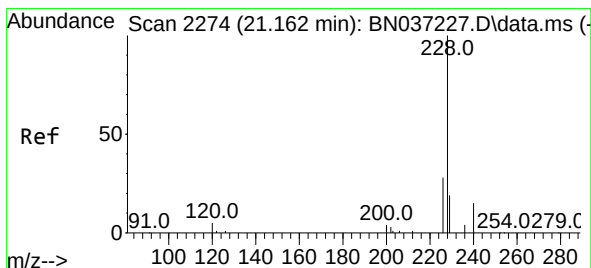
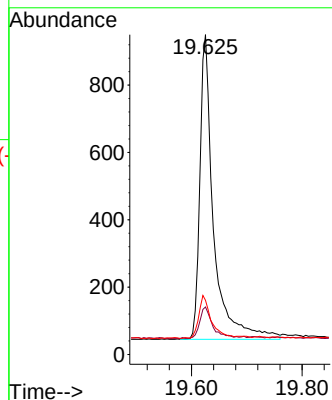


#31
 Terphenyl-d14
 Concen: 0.367 ng
 RT: 19.625 min Scan# 2063
 Delta R.T. 0.000 min
 Lab File: BN037237.D
 Acq: 13 Jun 2025 21:25

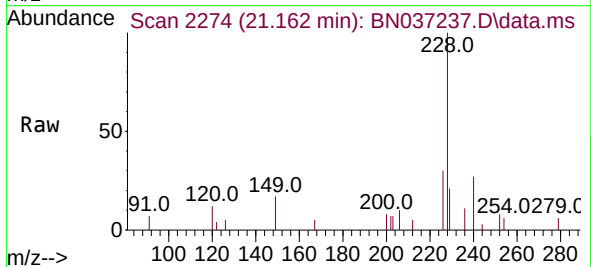
Instrument :
 BNA_N
 ClientSampleId :
 PB168391BSD



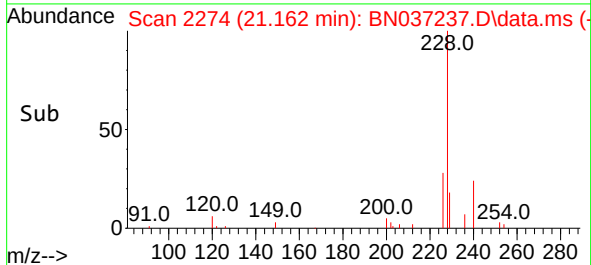
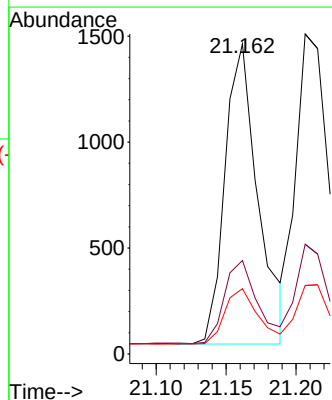
Tgt Ion:	244	Resp:	1545
Ion Ratio	Lower	Upper	
244	100		
212	14.8	12.2	18.2
122	16.9	14.3	21.5

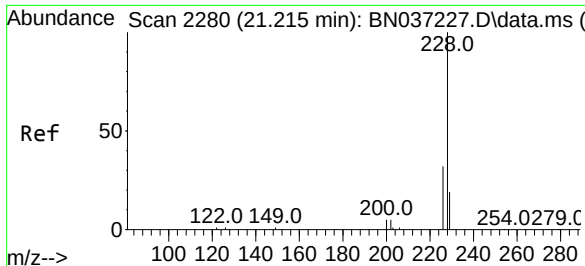


#32
 Benzo(a)anthracene
 Concen: 0.371 ng
 RT: 21.162 min Scan# 2274
 Delta R.T. 0.000 min
 Lab File: BN037237.D
 Acq: 13 Jun 2025 21:25



Tgt Ion:	228	Resp:	2335
Ion Ratio	Lower	Upper	
228	100		
226	30.1	23.8	35.8
229	21.0	17.0	25.4





#33

Chrysene

Concen: 0.365 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD

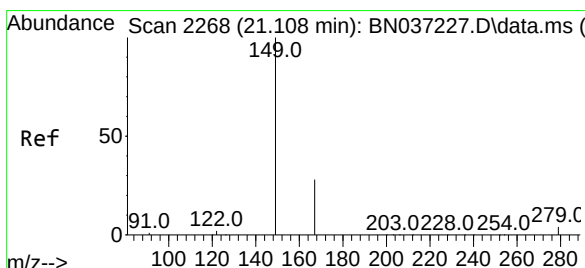
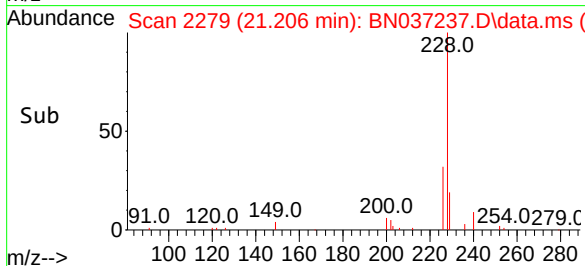
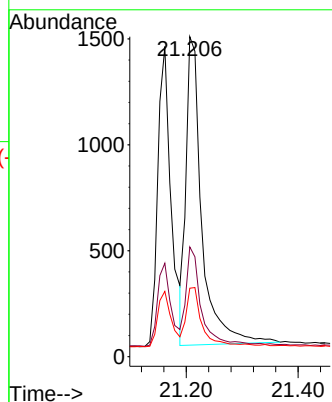
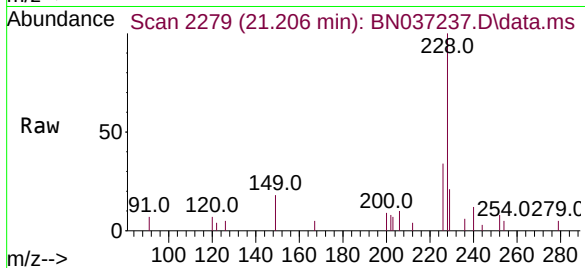
Tgt Ion:228 Resp: 2859

Ion Ratio Lower Upper

228 100

226 34.3 25.8 38.6

229 21.4 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.353 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

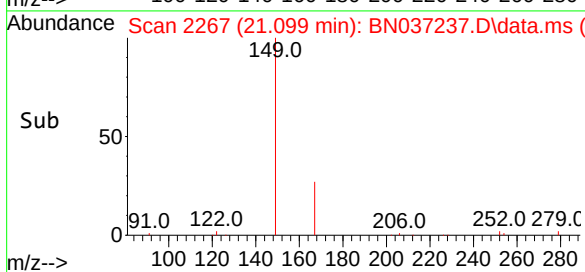
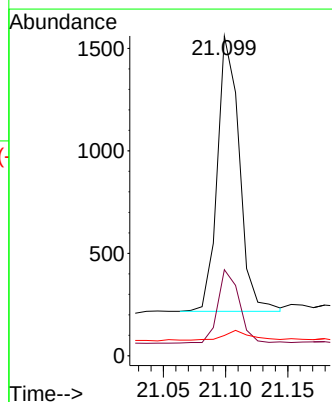
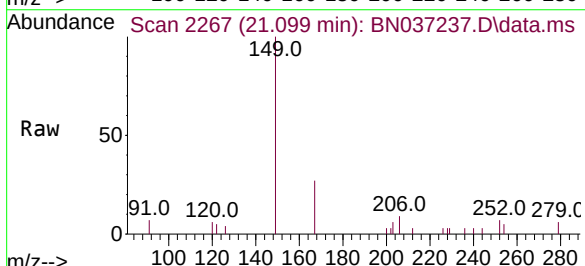
Tgt Ion:149 Resp: 1653

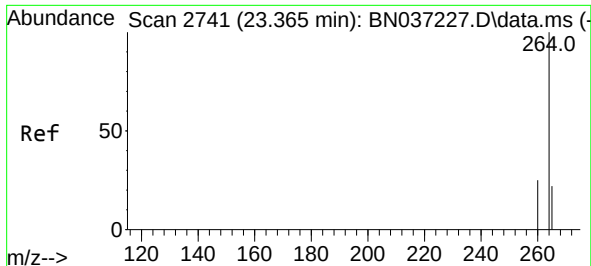
Ion Ratio Lower Upper

149 100

167 26.3 21.3 31.9

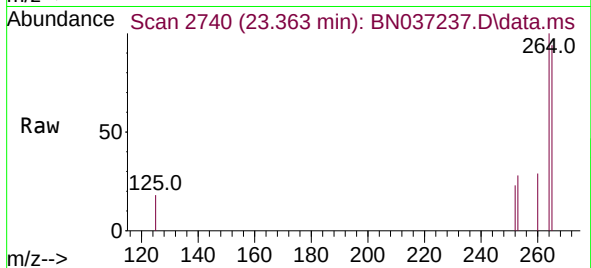
279 6.2 3.3 4.9#



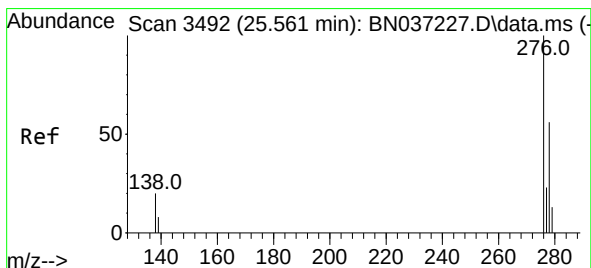
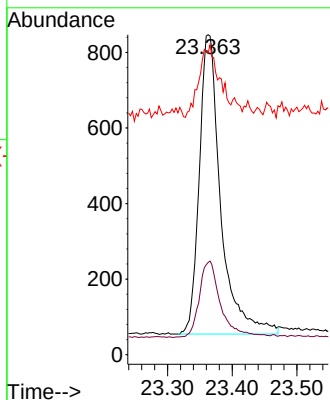
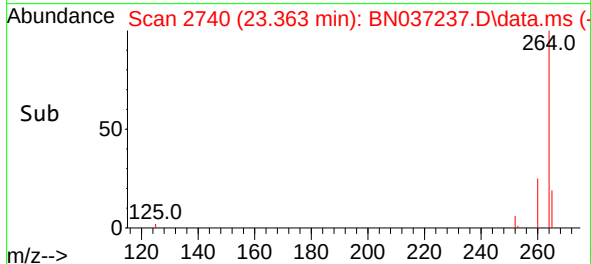


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Instrument :
BNA_N
ClientSampleId :
PB168391BSD

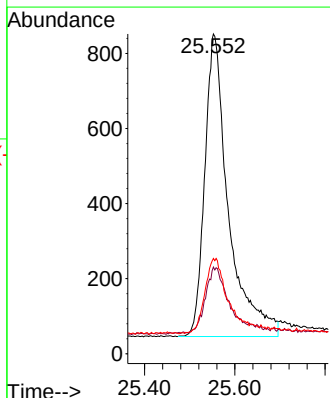
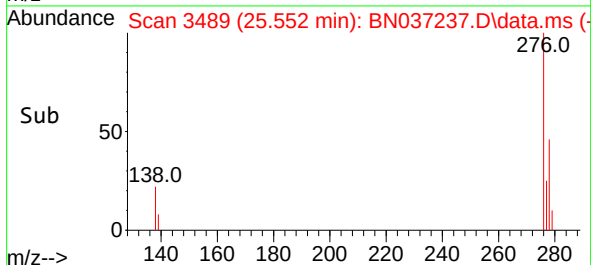
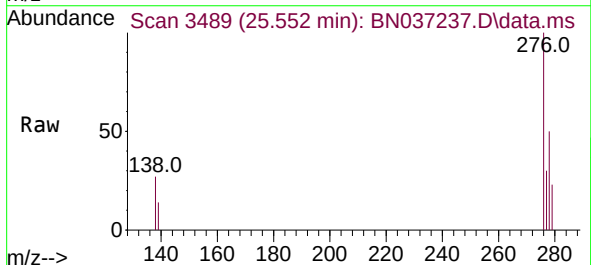


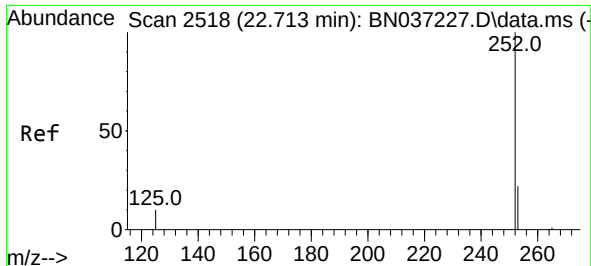
Tgt Ion:264 Resp: 1823
Ion Ratio Lower Upper
264 100
260 28.8 22.8 34.2
265 94.2 66.4 99.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.552 min Scan# 3489
Delta R.T. -0.009 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:276 Resp: 2941
Ion Ratio Lower Upper
276 100
138 20.6 16.8 25.2
277 24.0 19.5 29.3

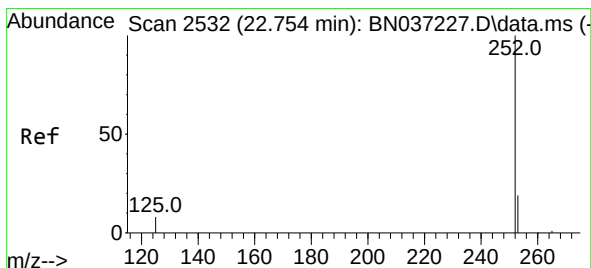
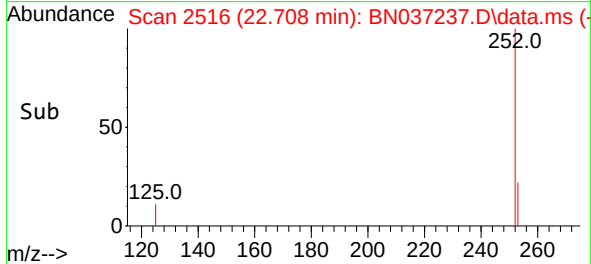
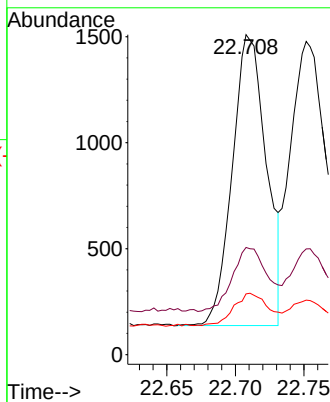
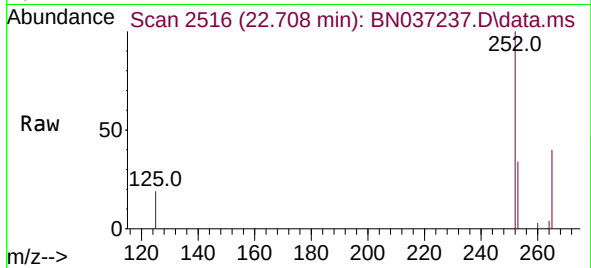




#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.708 min Scan# 2516
Delta R.T. -0.006 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

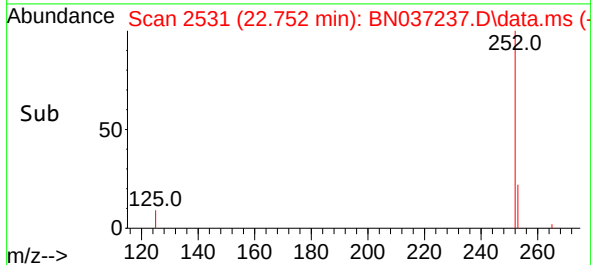
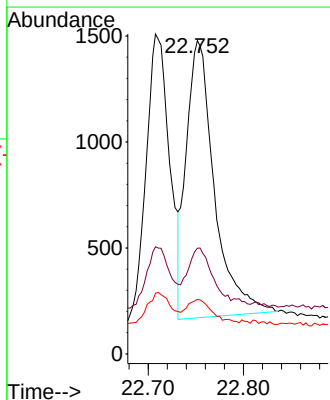
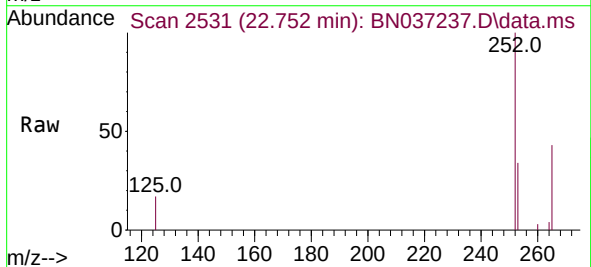
Instrument :
BNA_N
ClientSampleId :
PB168391BSD

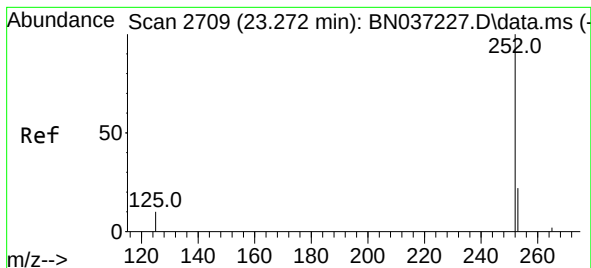
Tgt Ion:252 Resp: 2370
Ion Ratio Lower Upper
252 100
253 33.5 24.9 37.3
125 19.0 12.9 19.3



#38
Benzo(k)fluoranthene
Concen: 0.349 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037237.D
Acq: 13 Jun 2025 21:25

Tgt Ion:252 Resp: 2685
Ion Ratio Lower Upper
252 100
253 33.8 24.6 37.0
125 17.4 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.390 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037237.D

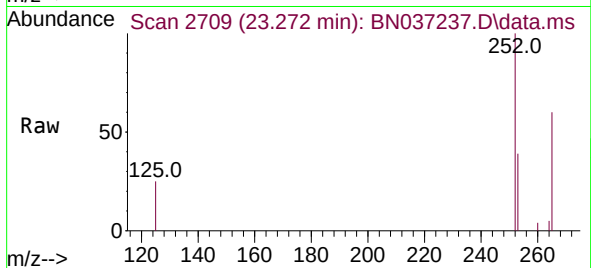
Acq: 13 Jun 2025 21:25

Instrument :

BNA_N

ClientSampleId :

PB168391BSD



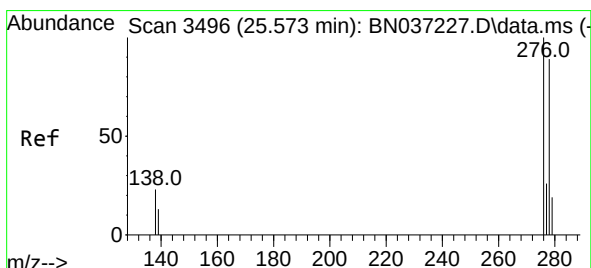
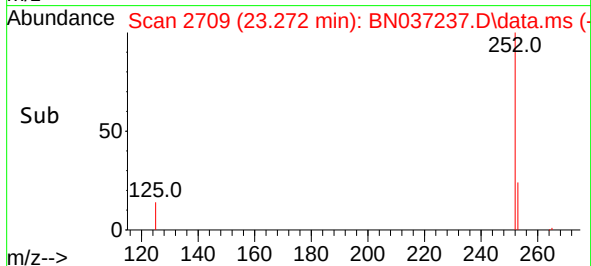
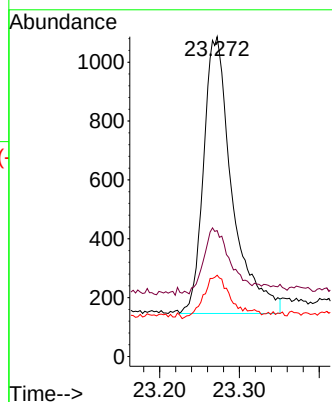
Tgt Ion:252 Resp: 2338

Ion Ratio Lower Upper

252 100

253 39.4 29.4 44.2

125 25.4 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037237.D

Acq: 13 Jun 2025 21:25

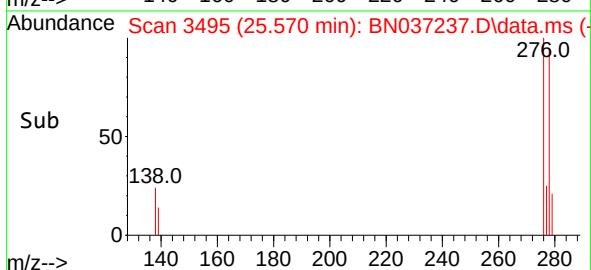
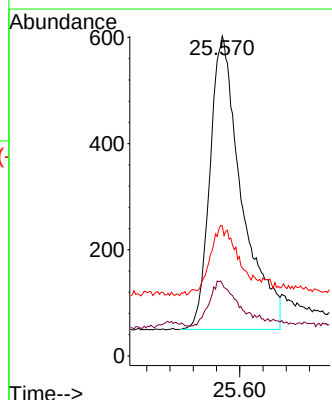
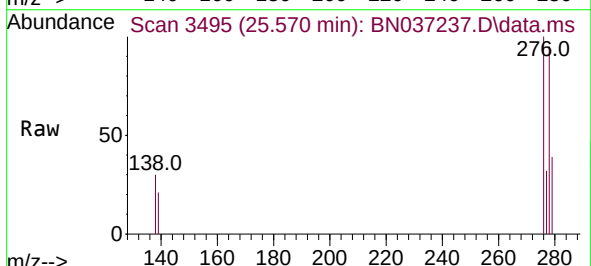
Tgt Ion:278 Resp: 2093

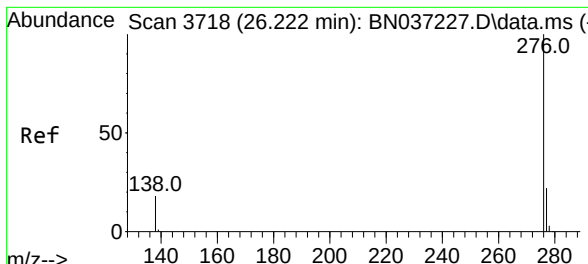
Ion Ratio Lower Upper

278 100

139 22.6 17.8 26.6

279 40.6 31.3 46.9





#41
 Benzo(g,h,i)perylene
 Concen: 0.368 ng
 RT: 26.216 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: BN037237.D
 Acq: 13 Jun 2025 21:25

Instrument :
 BNA_N
 ClientSampleId :
 PB168391BSD

Tgt Ion:276 Resp: 2507

Ion	Ratio	Lower	Upper
276	100		
277	27.5	22.0	33.0
138	26.0	18.4	27.6

