

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

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

ORDER ID : Q2063
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2063

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2063-01
Q2063-02
Q2063-03

Client Sample Number

RW5-SP100-20250515
RW5-SP201-20250515
RW5-SP303-20250515

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

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:29 am, May 27, 2025

Date: 5/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager: Ernie Wu

Order ID # Q2063

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 05/16/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RW5-SP201-20250515 [Terphenyl-d14 - 133%]. This surrogate is not required for DOD project, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Sample RW5-SP100-20250515 was diluted due to original sample had high concentrations. But tune was not ok in original run therefore only dilution is reported as final results.

E. Additional Comments:

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

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:38 am, May 27, 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: Q2063

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for RW5-SP201-20250515 [Terphenyl-d14 - 133%]. This surrogate is not required for DOD project, therefore no corrective action was taken.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
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 laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).
 Sample RW5-SP100-20250515 was diluted due to original sample had high concentrations. But tune was not ok in original run therefore only dilution is reported as final results.
 The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
 The not QT review data is reported in the Miscellaneous.
 Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

REVIEWED

By Sohil Jodhani, QA/QC Director at 9:31 am, May 27, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2063

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: 05/26/2025

LAB CHRONICLE

OrderID:	Q2063	OrderDate:	5/16/2025 10:38:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	L41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2063-01	RW5-SP100-2025051 5	Water			05/15/25			05/16/25
			SVOC-SIMGroup1	8270-Modified		05/16/25	05/20/25	
Q2063-02	RW5-SP201-2025051 5	Water			05/15/25			05/16/25
			SVOC-SIMGroup1	8270-Modified		05/16/25	05/20/25	
Q2063-03	RW5-SP303-2025051 5	Water			05/15/25			05/16/25
			SVOC-SIMGroup1	8270-Modified		05/16/25	05/20/25	



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Hit Summary Sheet SW-846

SDG No.: Q2063

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW5-SP100-20250515							
Q2063-01	RW5-SP100-20250515	WATER	1,4-Dioxane	5.600	0.13	0.4	0.4	ug/L
			Total Svoc :	5.60				
			Total Concentration:	5.60				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2063

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168032BL	PB168032BL	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
PB168032BS	PB168032BS	2-Methylnaphthalene-d10	0.4	0.39	96		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
PB168032BSD	PB168032BSD	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
Q2063-01	RW5-SP100-20250515	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.29	73		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q2063-02	RW5-SP201-20250515	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.29	72		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
Q2063-03	RW5-SP303-20250515	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.35	88		30	150
		Nitrobenzene-d5	0.4	0.27	68		55	111
		2-Fluorobiphenyl	0.4	0.27	67		53	106
		Terphenyl-d14	0.4	0.45	113		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2063

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037080.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168032BS	1,4-Dioxane	0.4	0.31	ug/L	78				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2063

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037081.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168032BSD	1,4-Dioxane	0.4	0.32	ug/L	80	3			70	130	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168032BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2063

SAS No.: Q2063 SDG NO.: Q2063

Lab File ID: BN037075.D

Lab Sample ID: PB168032BL

Instrument ID: BNA_N

Date Extracted: 05/16/2025

Matrix: (soil/water) Water

Date Analyzed: 05/20/2025

Level: (low/med) LOW

Time Analyzed: 15:45

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168032BS	PB168032BS	BN037080.D	05/20/2025
RW5-SP100-20250515	Q2063-01	BN037077.D	05/20/2025
RW5-SP201-20250515	Q2063-02	BN037078.D	05/20/2025
RW5-SP303-20250515	Q2063-03	BN037079.D	05/20/2025
PB168032BSD	PB168032BSD	BN037081.D	05/20/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2063SDG NO.: Q2063Lab File ID: BN036998.DDFTPP Injection Date: 05/13/2025Instrument ID: BNA_NDFTPP Injection Time: 17:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	55.6
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	52.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.9
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	10.4 (19) 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	BN036999.D	05/13/2025	17:41
SSTDICC0.2	SSTDICC0.2	BN037000.D	05/13/2025	18:17
SSTDICCC0.4	SSTDICCC0.4	BN037001.D	05/13/2025	18:53
SSTDICC0.8	SSTDICC0.8	BN037002.D	05/13/2025	19:29
SSTDICC1.6	SSTDICC1.6	BN037003.D	05/13/2025	20:05
SSTDICC3.2	SSTDICC3.2	BN037004.D	05/13/2025	20:41
SSTDICC5.0	SSTDICC5.0	BN037005.D	05/13/2025	21:17



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2063SDG NO.: Q2063Lab File ID: BN037073.DDFTPP Injection Date: 05/20/2025Instrument ID: BNA_NDFTPP Injection Time: 14:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.3
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	59.3
70	Less than 2.0% of mass 69	0.3 (0.4) 1
127	10.0 - 80.0% of mass 198	52.8
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (19.4) 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	BN037074.D	05/20/2025	15:09
PB168032BL	PB168032BL	BN037075.D	05/20/2025	15:45
RW5-SP100-20250515	Q2063-01	BN037077.D	05/20/2025	16:59
RW5-SP201-20250515	Q2063-02	BN037078.D	05/20/2025	17:35
RW5-SP303-20250515	Q2063-03	BN037079.D	05/20/2025	18:11
PB168032BS	PB168032BS	BN037080.D	05/20/2025	18:47
PB168032BSD	PB168032BSD	BN037081.D	05/20/2025	19:23
SSTDCCC0.4EC	SSTDCCC0.4	BN037082.D	05/20/2025	19:59

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2063 SAS No.: Q2063 SDG NO.: Q2063

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/20/2025

Lab File ID: BN037074.D Time Analyzed: 15:09

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	2240	7.611	6230	10.39	3461	14.26
UPPER LIMIT	4480	8.111	12460	10.894	6922	14.756
LOWER LIMIT	1120	7.111	3115	9.894	1730.5	13.756
EPA SAMPLE NO.						
01 RW5-SP303-20250515	1605	7.61	4337	10.39	2543	14.26
02 PB168032BL	1695	7.61	4260	10.39	2468	14.26
03 RW5-SP100-20250515	1879	7.61	5069	10.39	2826	14.26
04 PB168032BS	1842	7.61	4702	10.39	2635	14.26
05 PB168032BSD	1841	7.61	4693	10.39	2613	14.26
06 RW5-SP201-20250515	2023	7.61	5257	10.39	2991	14.26

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.: Q2063 SAS No.: Q2063 SDG NO.: Q2063

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/20/2025

Lab File ID: BN037074.D Time Analyzed: 15:09

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	6762	17.009	4645	21.207	3820	23.407
UPPER LIMIT	13524	17.509	9290	21.707	7640	23.907
LOWER LIMIT	3381	16.509	2322.5	20.707	1910	22.907
EPA SAMPLE NO.						
01 RW5-SP303-20250515	5161	17.01	4016	21.21	3494	23.41
02 PB168032BL	5072	17.01	3622	21.21	3128	23.41
03 RW5-SP100-20250515	5701	17.01	4060	21.21	3512	23.41
04 PB168032BS	5352	17.01	4047	21.21	3455	23.40
05 PB168032BSD	5111	17.01	3649	21.20	3038	23.40
06 RW5-SP201-20250515	6089	17.01	4329	21.21	3603	23.41

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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- 13
- 14
- 15
- 16
- 17
- 18

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/16/25
Client Sample ID:	RW5-SP100-20250515	SDG No.:	Q2063
Lab Sample ID:	Q2063-01	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
BN037077.D	2	05/16/25 11:50	05/20/25 16:59	PB168032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.60		0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		73%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1880	7.611				
1146-65-2	Naphthalene-d8	5070	10.394				
15067-26-2	Acenaphthene-d10	2830	14.256				
1517-22-2	Phenanthrene-d10	5700	17.009				
1719-03-5	Chrysene-d12	4060	21.207				
1520-96-3	Perylene-d12	3510	23.407				

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\BN052125\
Data File : BN037077.D
Acq On : 20 May 2025 16:59
Operator : RC/JU
Sample : Q2063-01 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250515

Quant Time: May 21 01:38:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

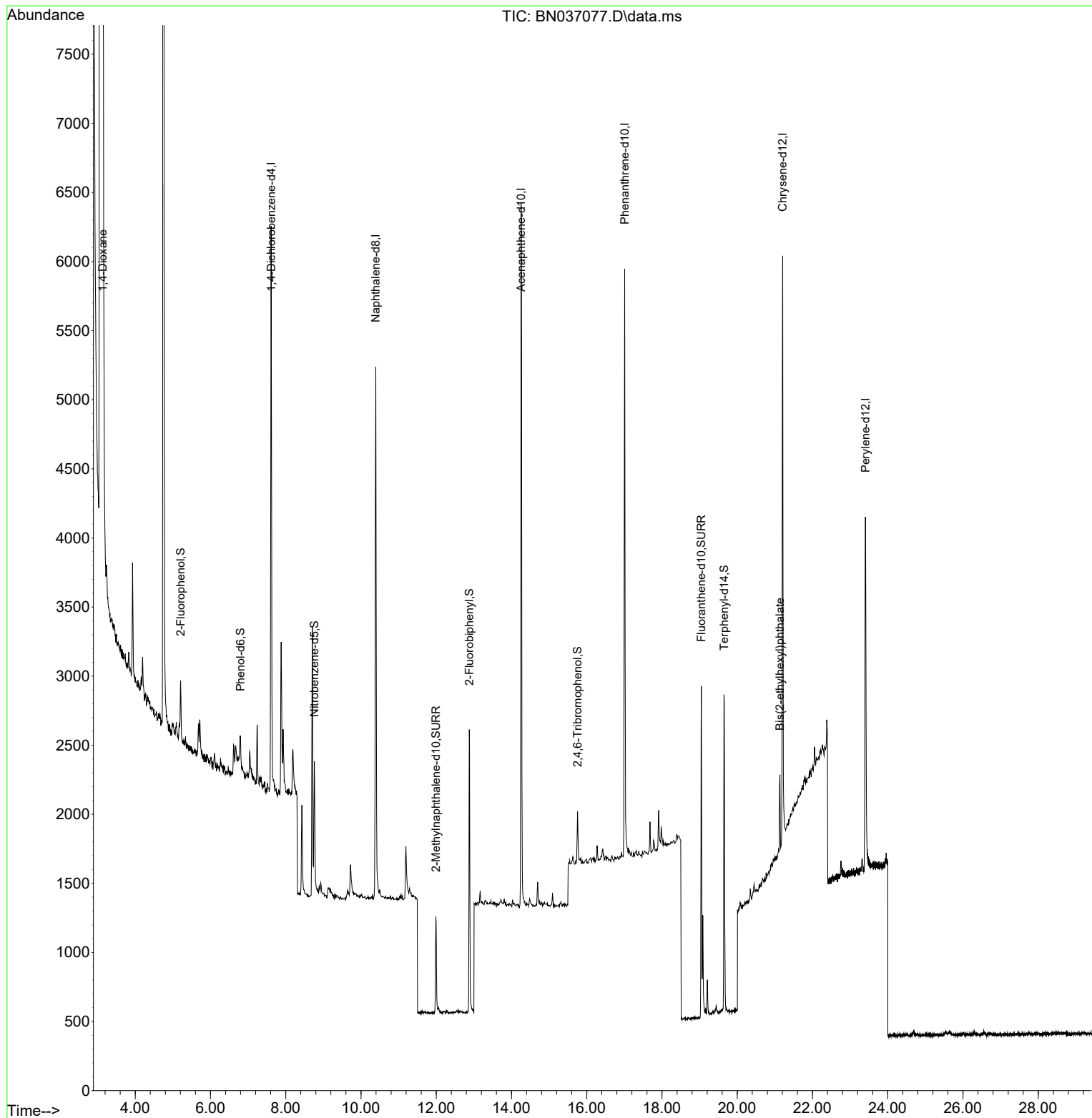
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1879	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	5069	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2826	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5701	0.400	ng	# 0.00
29) Chrysene-d12	21.207	240	4060	0.400	ng	# 0.00
35) Perylene-d12	23.407	264	3512	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	286	0.058	ng	0.00
5) Phenol-d6	6.795	99	206	0.033	ng	0.00
8) Nitrobenzene-d5	8.760	82	828	0.150	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	1062	0.149	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	204	0.164	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	1890	0.146	ng	-0.01
27) Fluoranthene-d10	19.045	212	2702	0.173	ng	0.00
31) Terphenyl-d14	19.649	244	2206	0.254	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.133	88	6480	2.810	ng	96
34) Bis(2-ethylhexyl)phtha...	21.135	149	584	0.062	ng	# 96

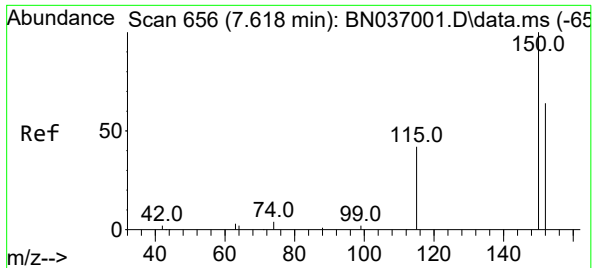
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037077.D
Acq On : 20 May 2025 16:59
Operator : RC/JU
Sample : Q2063-01 2X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250515

Quant Time: May 21 01:38:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

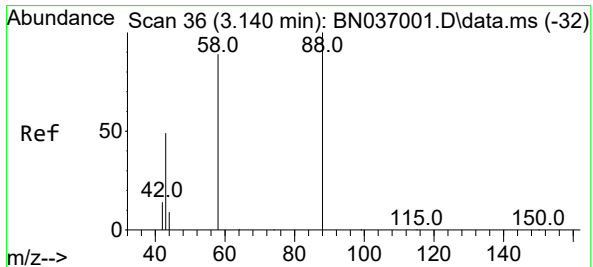
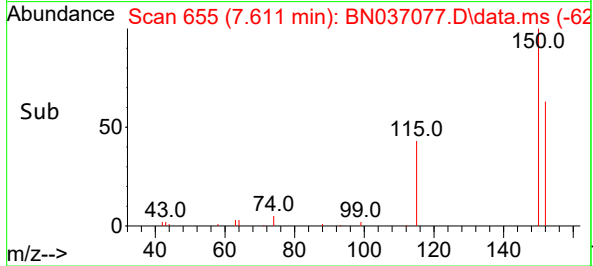
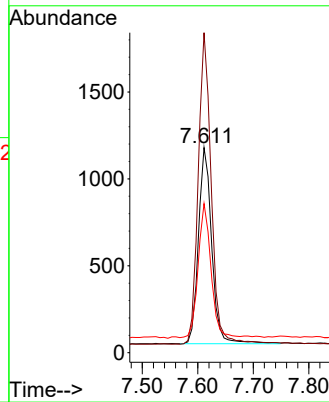
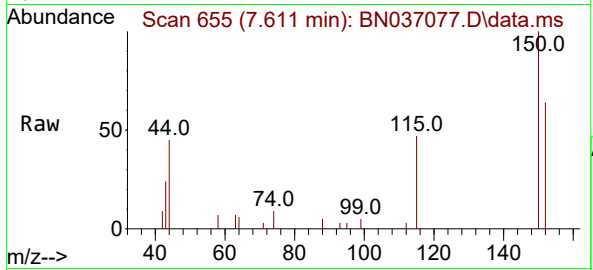




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

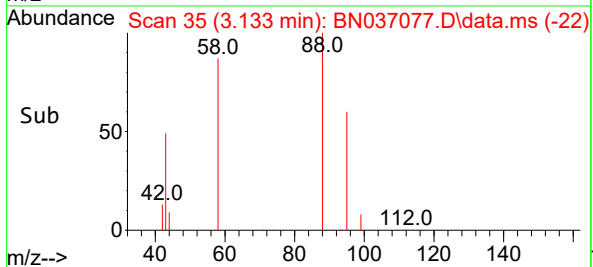
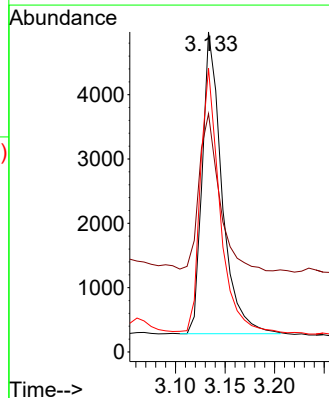
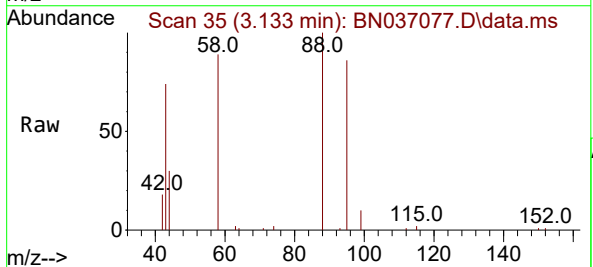
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250515

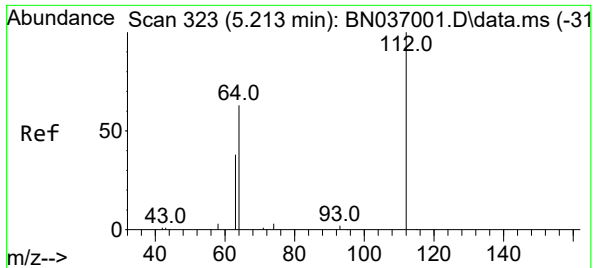
Tgt Ion:152 Resp: 1879
Ion Ratio Lower Upper
152 100
150 156.0 123.9 185.9
115 72.7 55.8 83.8



#2
1,4-Dioxane
Concen: 2.810 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

Tgt Ion: 88 Resp: 6480
Ion Ratio Lower Upper
88 100
43 53.7 37.4 56.0
58 85.9 68.8 103.2

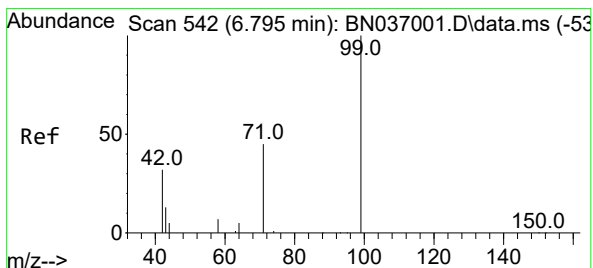
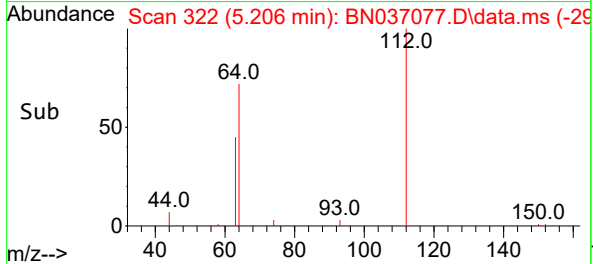
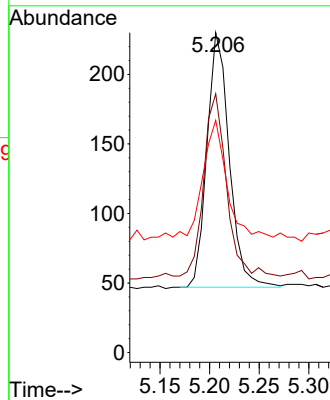
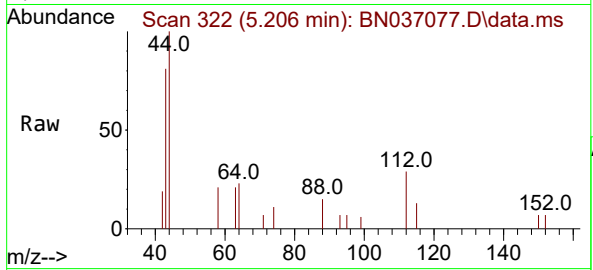




#4
2-Fluorophenol
Concen: 0.058 ng
RT: 5.206 min Scan# 311
Delta R.T. -0.007 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

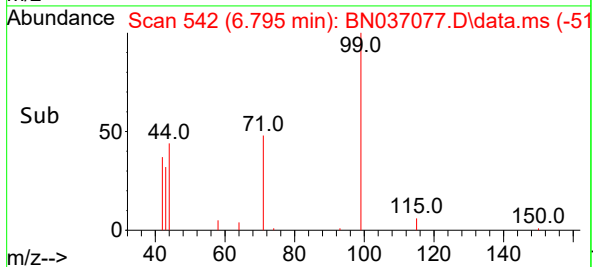
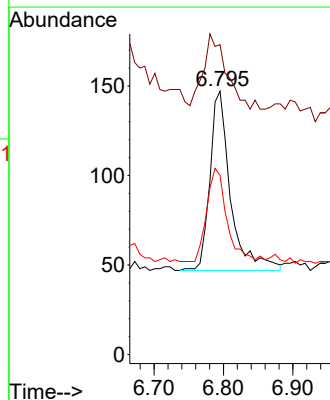
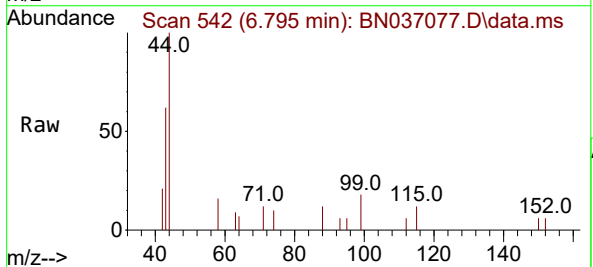
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250515

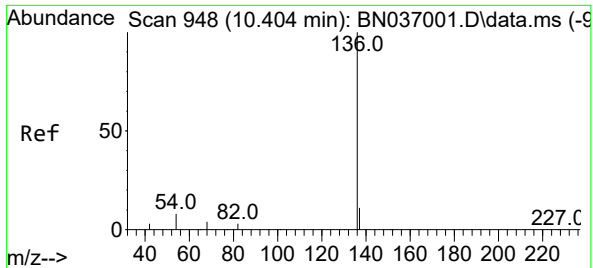
Tgt Ion:112 Resp: 286
Ion Ratio Lower Upper
112 100
64 75.5 55.7 83.5
63 56.3 34.6 51.8#



#5
Phenol-d6
Concen: 0.033 ng
RT: 6.795 min Scan# 542
Delta R.T. 0.000 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

Tgt Ion: 99 Resp: 206
Ion Ratio Lower Upper
99 100
42 47.6 29.3 43.9#
71 50.0 35.7 53.5

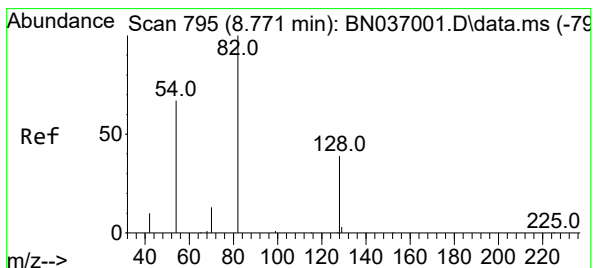
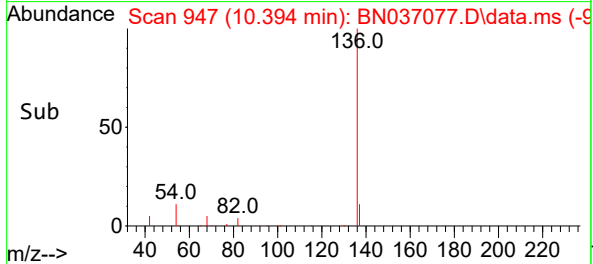
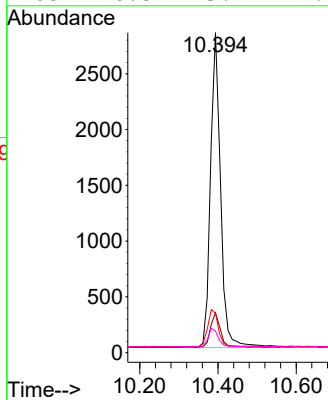
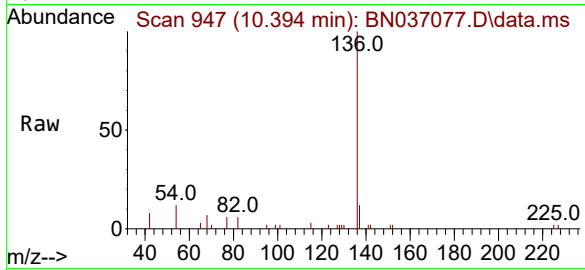




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

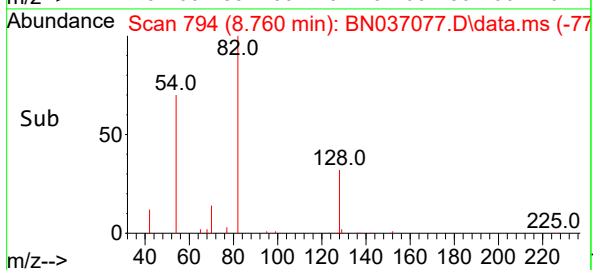
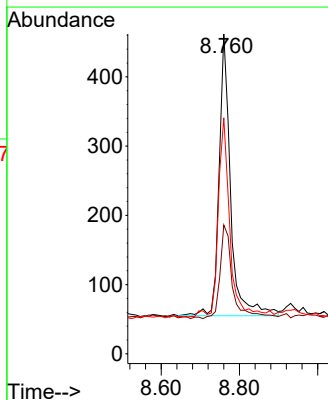
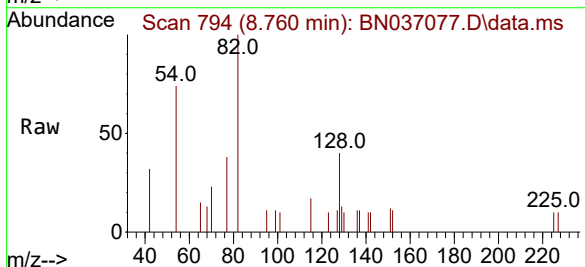
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250515

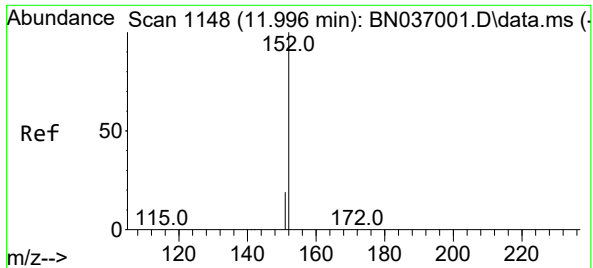
Tgt Ion:	136	Resp:	5069
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.4	15.6
54	12.3	8.5	12.7
68	6.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.150 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

Tgt Ion:	82	Resp:	828
Ion	Ratio	Lower	Upper
82	100		
128	40.3	34.0	51.0
54	73.8	55.0	82.4

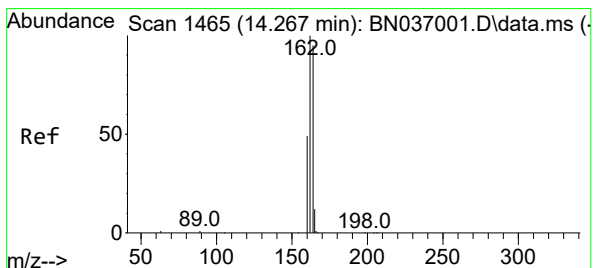
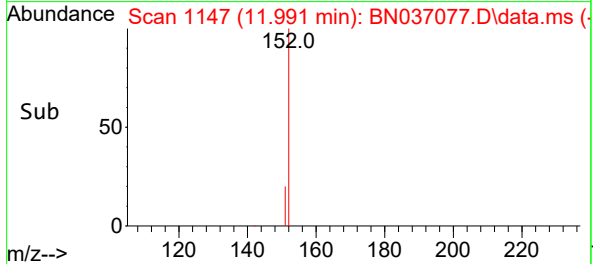
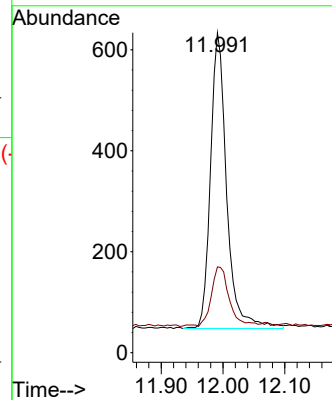
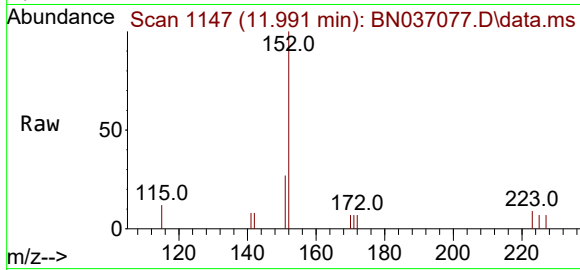




#11
2-Methylnaphthalene-d10
Concen: 0.149 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

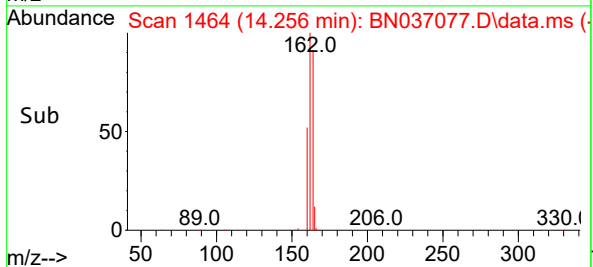
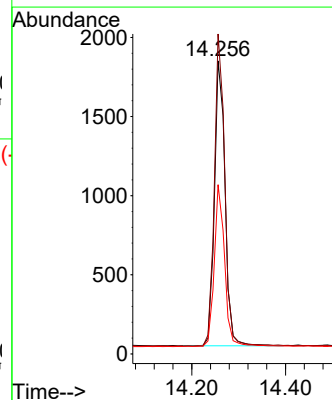
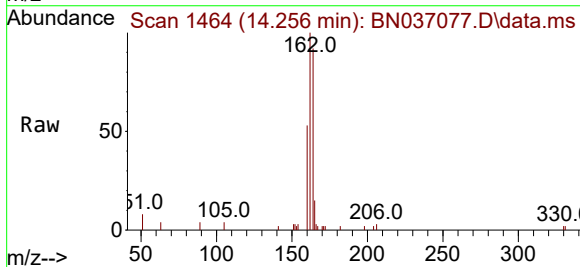
Instrument :
BNA_N
ClientSampleId :
RW5-SP100-20250515

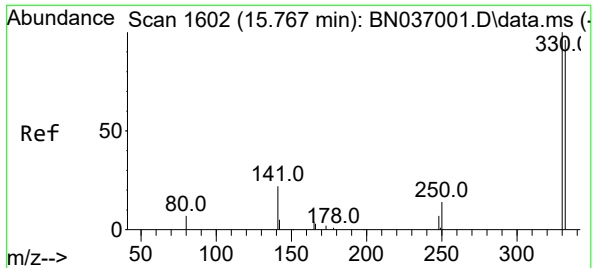
Tgt Ion:152 Resp: 1062
Ion Ratio Lower Upper
152 100
151 22.3 17.5 26.3



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037077.D
Acq: 20 May 2025 16:59

Tgt Ion:164 Resp: 2826
Ion Ratio Lower Upper
164 100
162 109.2 84.2 126.4
160 57.8 42.6 63.8





#14

2,4,6-Tribromophenol

Concen: 0.164 ng

RT: 15.755 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037077.D

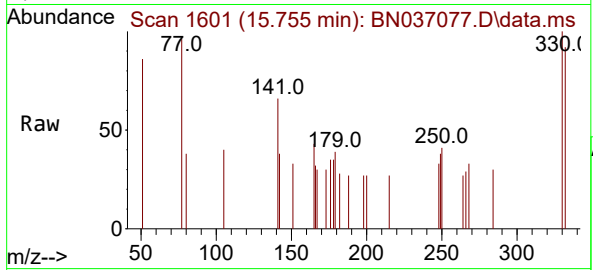
Acq: 20 May 2025 16:59

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250515



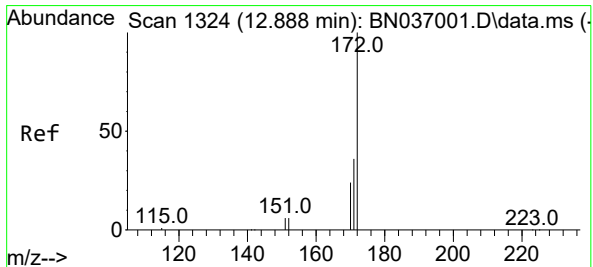
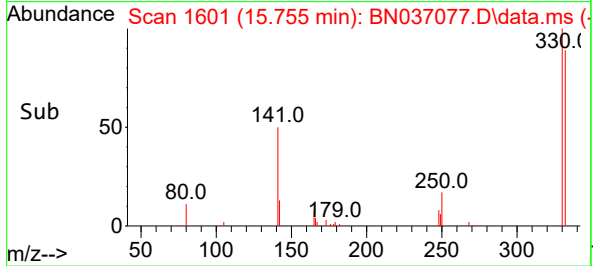
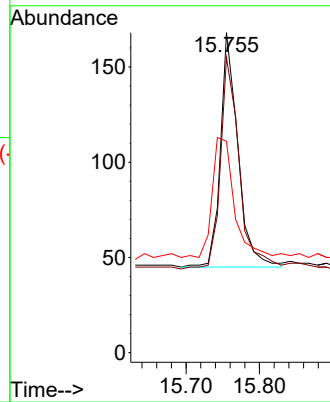
Tgt Ion:330 Resp: 204

Ion Ratio Lower Upper

330 100

332 100.5 73.8 110.8

141 68.1 43.9 65.9#



#15

2-Fluorobiphenyl

Concen: 0.146 ng

RT: 12.878 min Scan# 1322

Delta R.T. -0.010 min

Lab File: BN037077.D

Acq: 20 May 2025 16:59

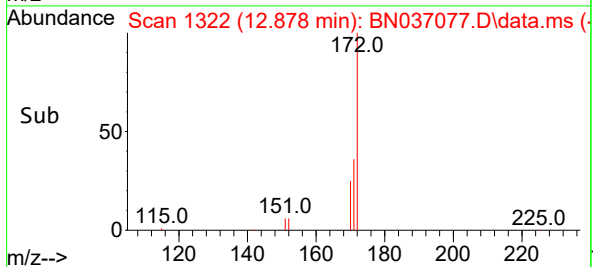
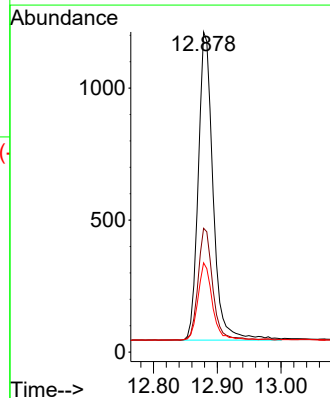
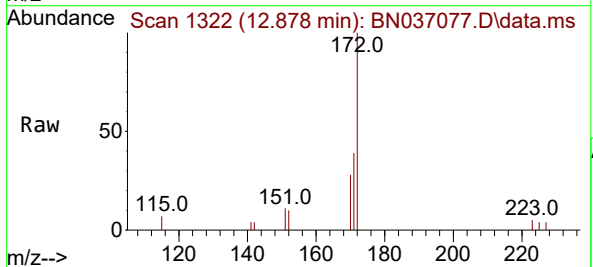
Tgt Ion:172 Resp: 1890

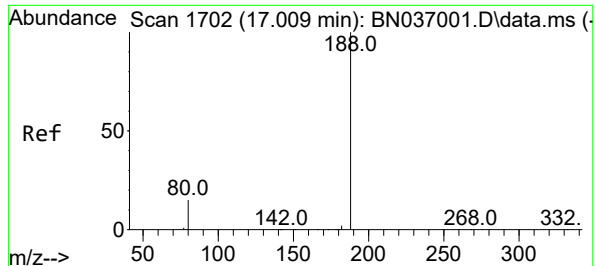
Ion Ratio Lower Upper

172 100

171 38.7 29.2 43.8

170 27.9 20.5 30.7





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037077.D

Acq: 20 May 2025 16:59

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250515

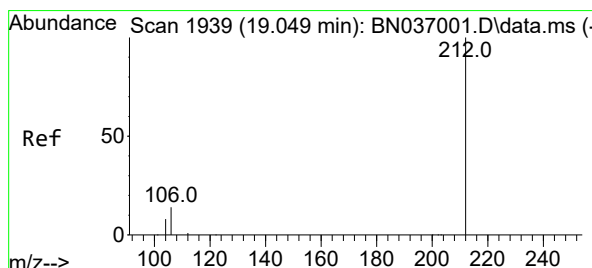
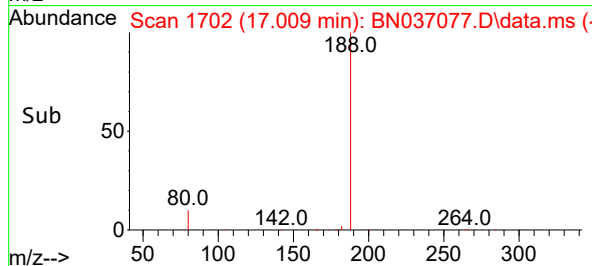
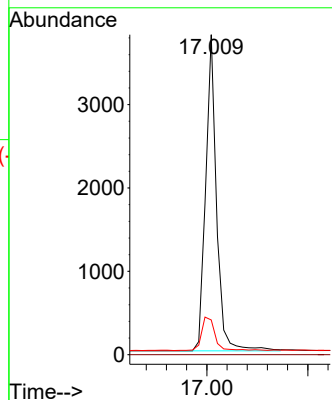
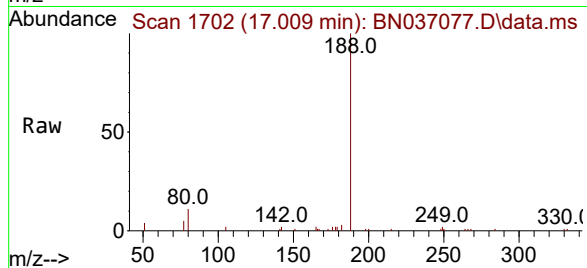
Tgt Ion:188 Resp: 5701

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 13.4 20.0#



#27

Fluoranthene-d10

Concen: 0.173 ng

RT: 19.045 min Scan# 1938

Delta R.T. -0.005 min

Lab File: BN037077.D

Acq: 20 May 2025 16:59

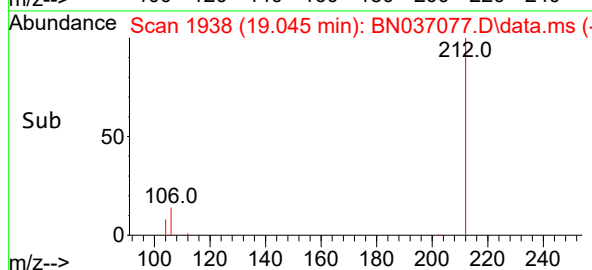
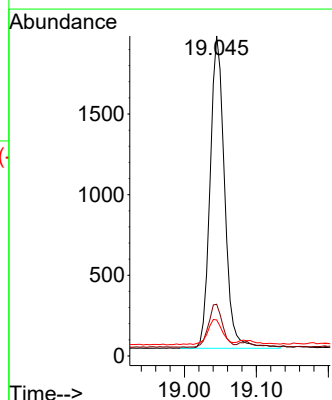
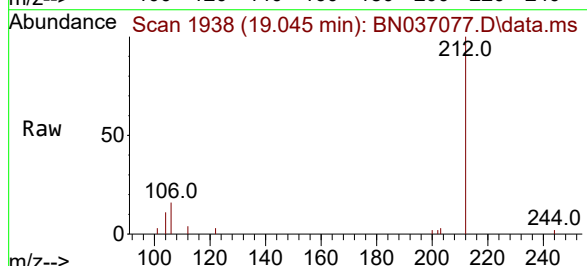
Tgt Ion:212 Resp: 2702

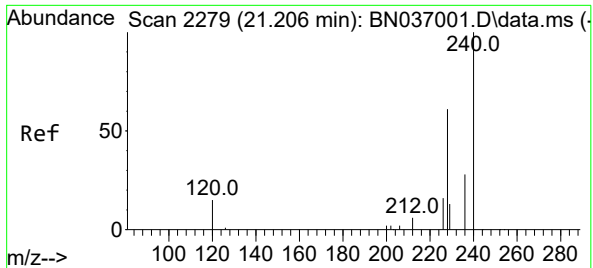
Ion Ratio Lower Upper

212 100

106 13.5 11.3 16.9

104 8.3 6.7 10.1





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037077.D

Acq: 20 May 2025 16:59

Instrument :

BNA_N

ClientSampleId :

RW5-SP100-20250515

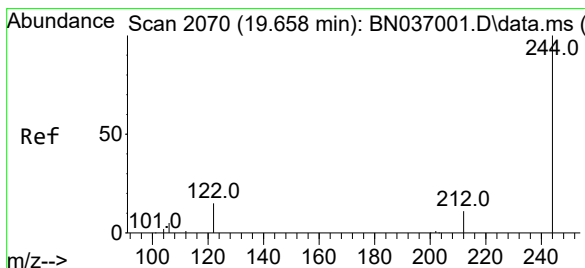
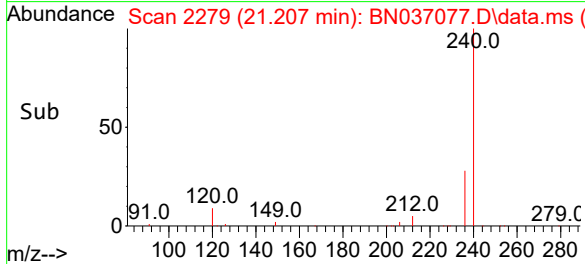
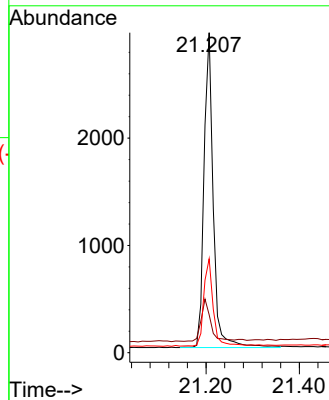
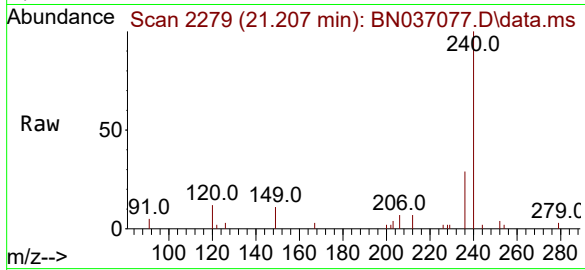
Tgt Ion:240 Resp: 4060

Ion Ratio Lower Upper

240 100

120 11.8 15.1 22.7#

236 29.4 24.0 36.0



#31

Terphenyl-d14

Concen: 0.254 ng

RT: 19.649 min Scan# 2068

Delta R.T. -0.009 min

Lab File: BN037077.D

Acq: 20 May 2025 16:59

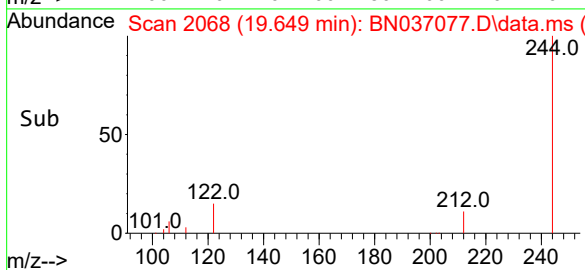
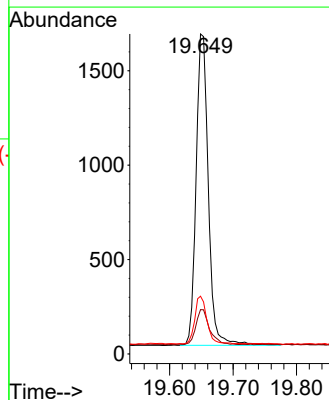
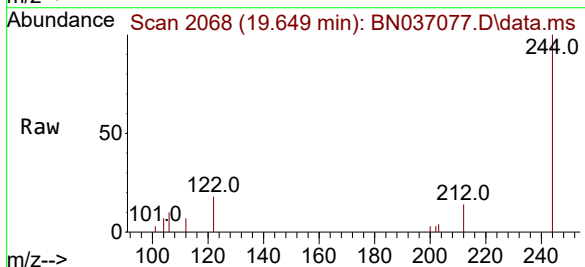
Tgt Ion:244 Resp: 2206

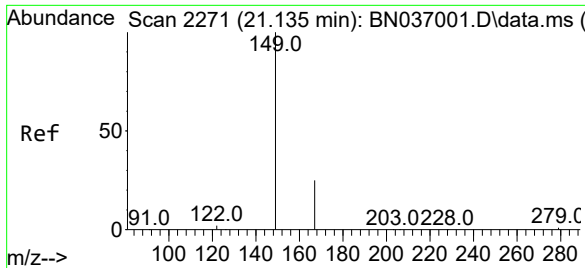
Ion Ratio Lower Upper

244 100

212 13.9 9.7 14.5

122 18.1 13.4 20.0

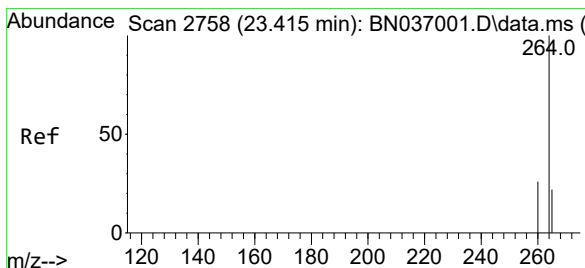
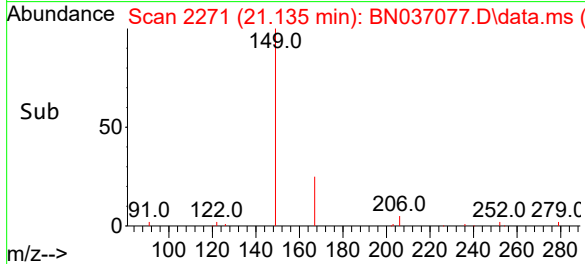
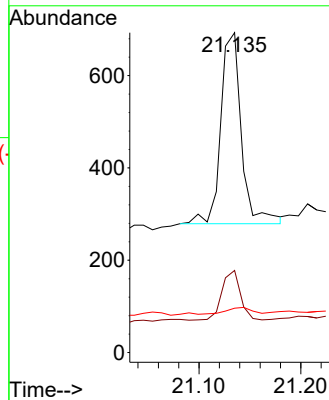
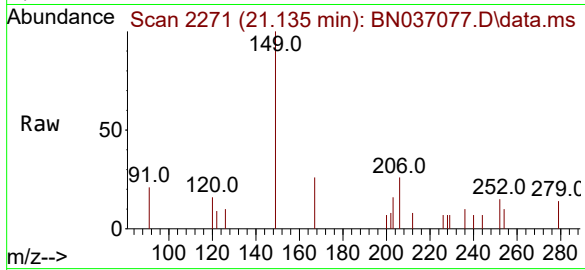




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.062 ng
 RT: 21.135 min Scan# 2113
 Delta R.T. 0.000 min
 Lab File: BN037077.D
 Acq: 20 May 2025 16:59

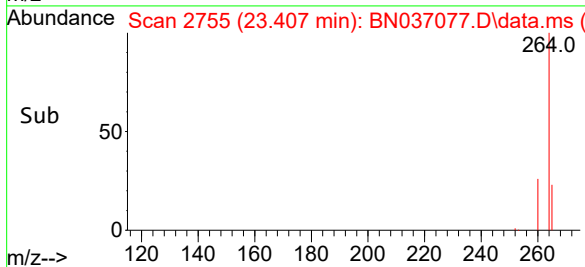
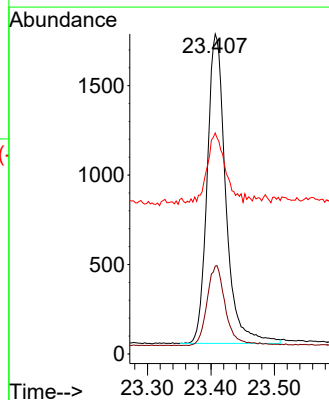
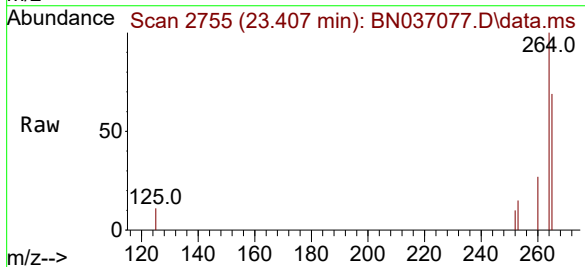
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP100-20250515

Tgt Ion:149 Resp: 584
 Ion Ratio Lower Upper
 149 100
 167 23.5 20.6 30.8
 279 4.3 2.6 3.8#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.407 min Scan# 2755
 Delta R.T. -0.009 min
 Lab File: BN037077.D
 Acq: 20 May 2025 16:59

Tgt Ion:264 Resp: 3512
 Ion Ratio Lower Upper
 264 100
 260 27.4 21.9 32.9
 265 69.0 51.6 77.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/16/25
Client Sample ID:	RW5-SP201-20250515	SDG No.:	Q2063
Lab Sample ID:	Q2063-02	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
BN037078.D	1	05/16/25 11:50	05/20/25 17:35	PB168032

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	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.29		53 - 106		72%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2020		7.611			
1146-65-2	Naphthalene-d8	5260		10.394			
15067-26-2	Acenaphthene-d10	2990		14.256			
1517-22-2	Phenanthrene-d10	6090		17.009			
1719-03-5	Chrysene-d12	4330		21.207			
1520-96-3	Perylene-d12	3600		23.407			

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\BN052125\
Data File : BN037078.D
Acq On : 20 May 2025 17:35
Operator : RC/JU
Sample : Q2063-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250515

Quant Time: May 21 01:38:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

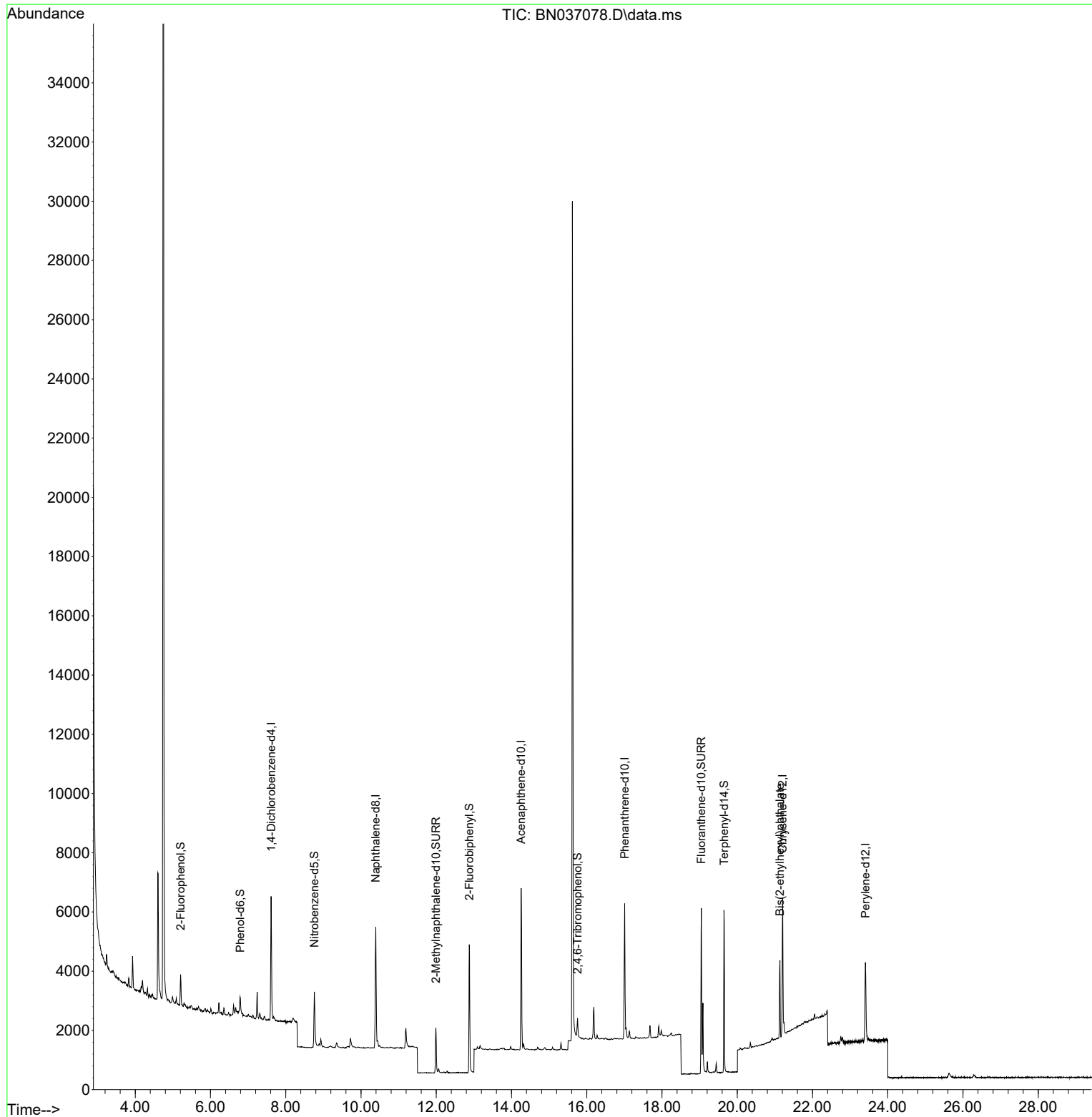
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2023	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	5257	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2991	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	6089	0.400	ng	# 0.00
29) Chrysene-d12	21.207	240	4329	0.400	ng	# 0.00
35) Perylene-d12	23.407	264	3603	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	691	0.130	ng	0.00
5) Phenol-d6	6.788	99	490	0.074	ng	0.00
8) Nitrobenzene-d5	8.760	82	1643	0.287	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	2168	0.293	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	347	0.264	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	3946	0.288	ng	0.00
27) Fluoranthene-d10	19.045	212	5909	0.354	ng	0.00
31) Terphenyl-d14	19.649	244	4922	0.532	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.135	149	2485	0.248	ng	98

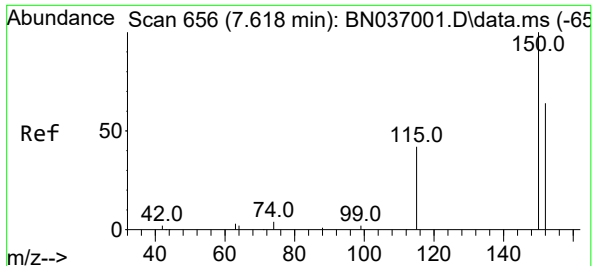
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037078.D
Acq On : 20 May 2025 17:35
Operator : RC/JU
Sample : Q2063-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250515

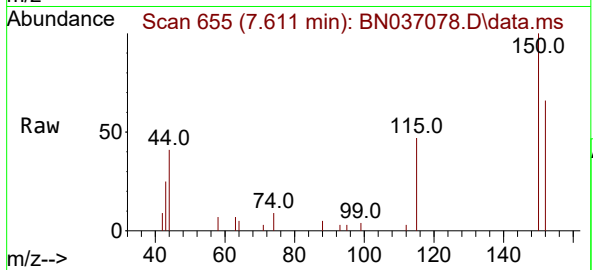
Quant Time: May 21 01:38:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



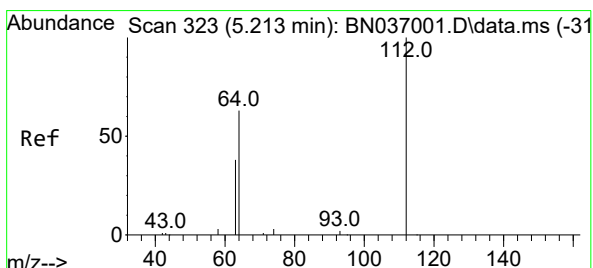
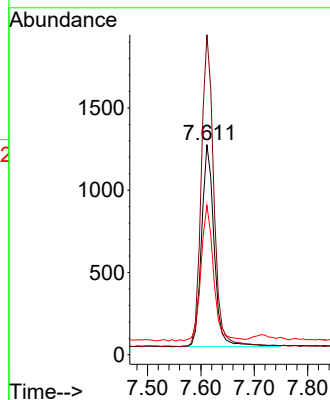
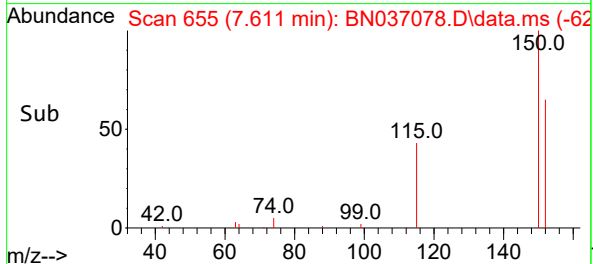


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250515

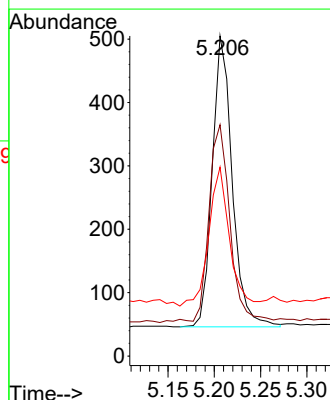
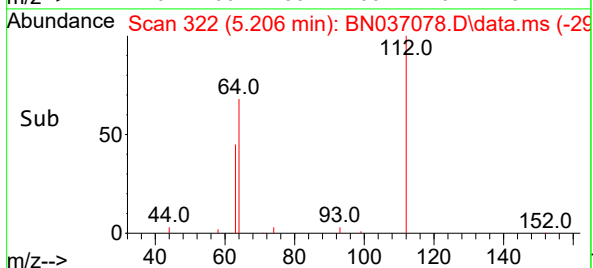
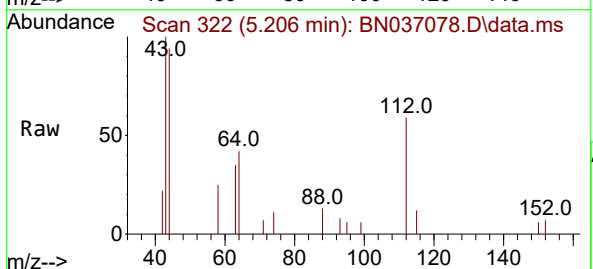


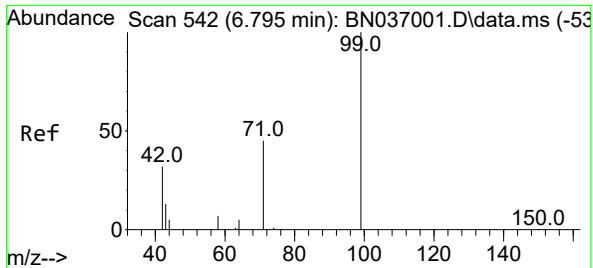
Tgt Ion:152 Resp: 2023
Ion Ratio Lower Upper
152 100
150 152.3 123.9 185.9
115 71.1 55.8 83.8



#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

Tgt Ion:112 Resp: 691
Ion Ratio Lower Upper
112 100
64 71.9 55.7 83.5
63 48.5 34.6 51.8

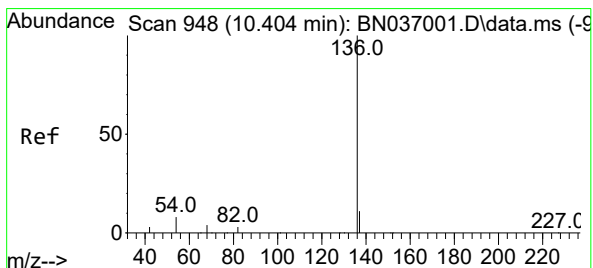
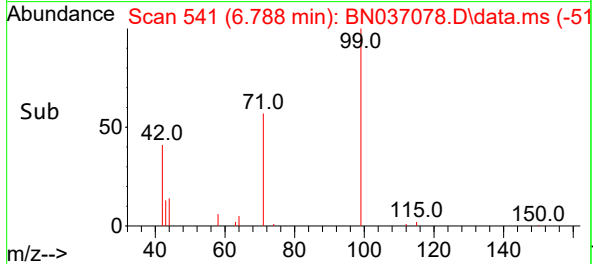
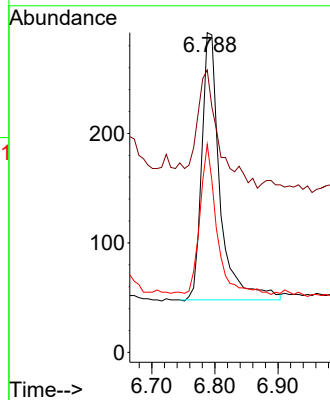
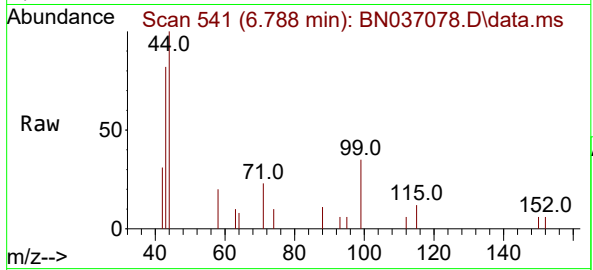




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

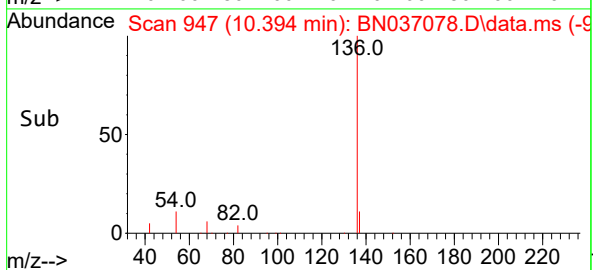
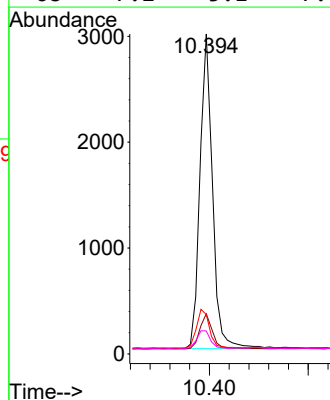
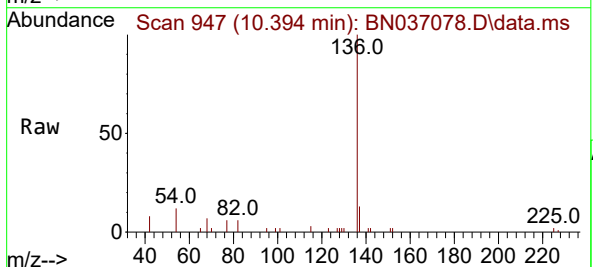
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250515

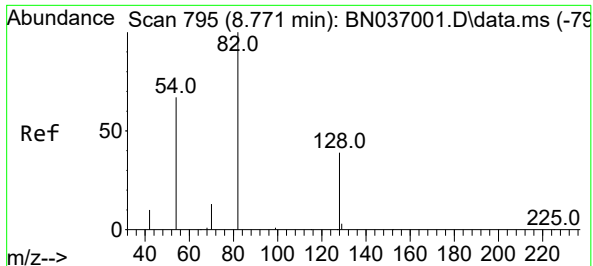
Tgt Ion: 99 Resp: 490
Ion Ratio Lower Upper
99 100
42 52.9 29.3 43.9#
71 52.2 35.7 53.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

Tgt Ion: 136 Resp: 5257
Ion Ratio Lower Upper
136 100
137 12.5 10.4 15.6
54 12.3 8.5 12.7
68 7.2 5.1 7.7

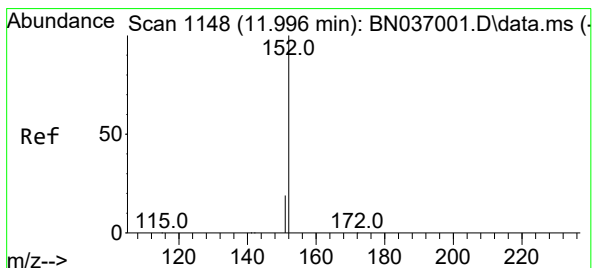
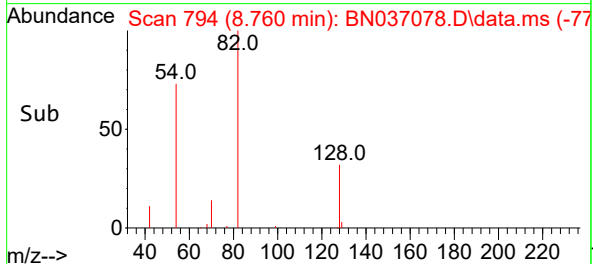
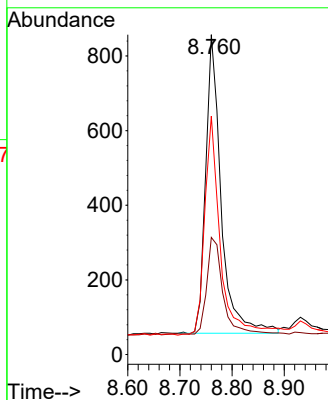
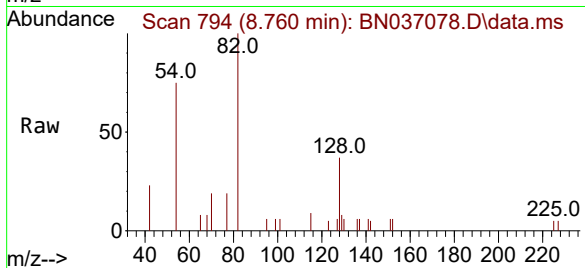




#8
Nitrobenzene-d5
Concen: 0.287 ng
RT: 8.760 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

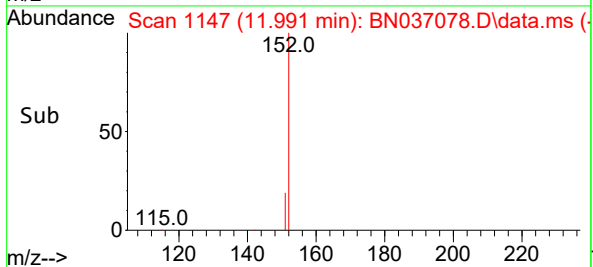
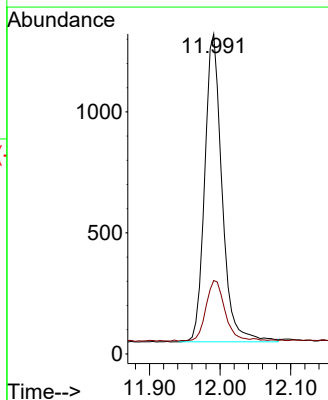
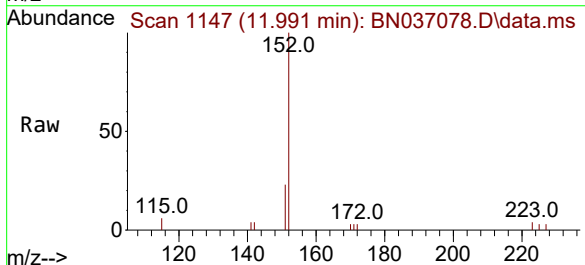
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250515

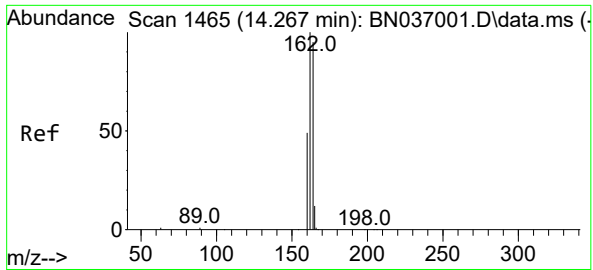
Tgt Ion:	82	Resp:	1643
Ion	Ratio	Lower	Upper
82	100		
128	36.6	34.0	51.0
54	74.6	55.0	82.4



#11
2-Methylnaphthalene-d10
Concen: 0.293 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

Tgt Ion:	152	Resp:	2168
Ion	Ratio	Lower	Upper
152	100		
151	21.9	17.5	26.3

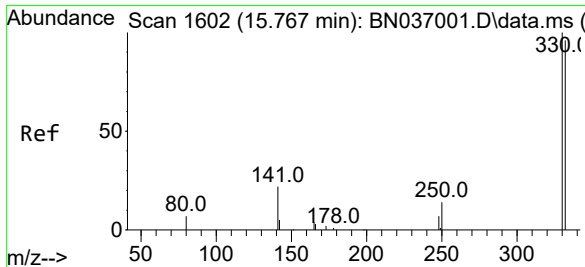
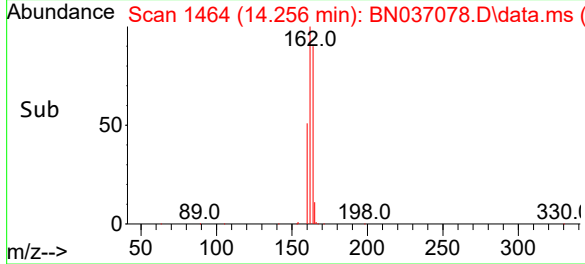
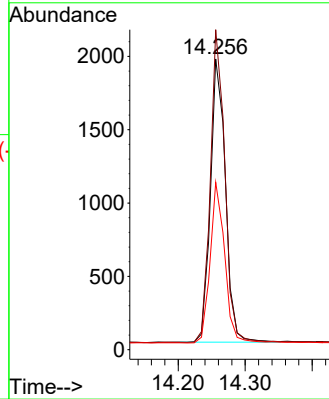
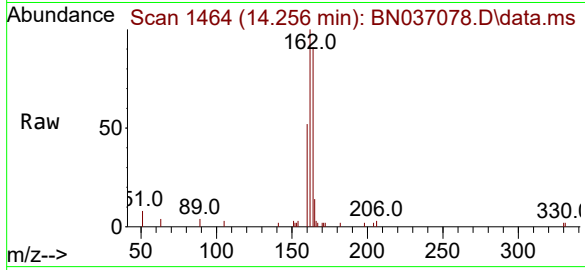




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

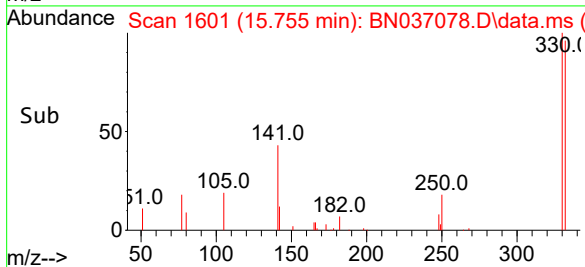
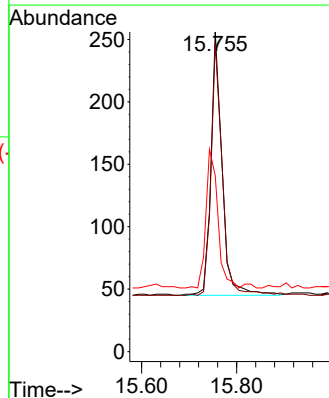
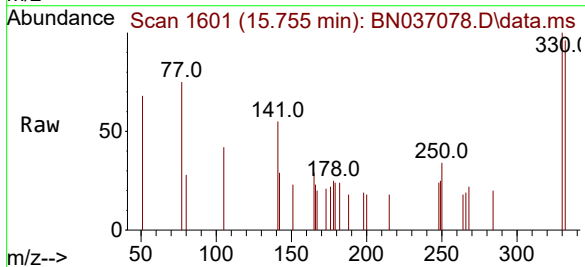
Instrument :
BNA_N
ClientSampleId :
RW5-SP201-20250515

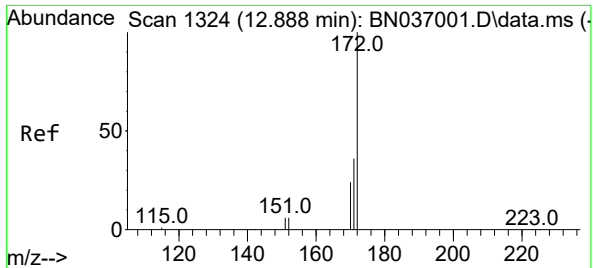
Tgt Ion	Ratio	Lower	Upper
164	100		
162	110.1	84.2	126.4
160	57.6	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 0.264 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037078.D
Acq: 20 May 2025 17:35

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	73.8	110.8
141	55.6	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 0.288 ng

RT: 12.878 min Scan# 1

Delta R.T. -0.010 min

Lab File: BN037078.D

Acq: 20 May 2025 17:35

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250515

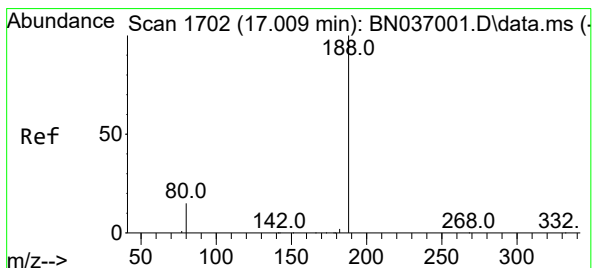
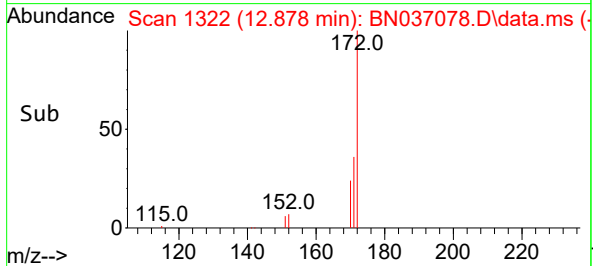
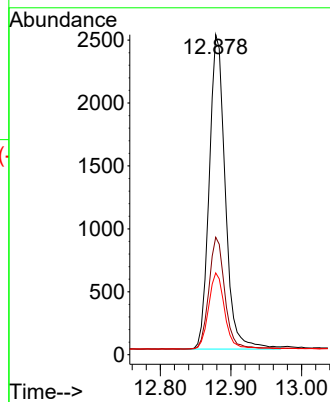
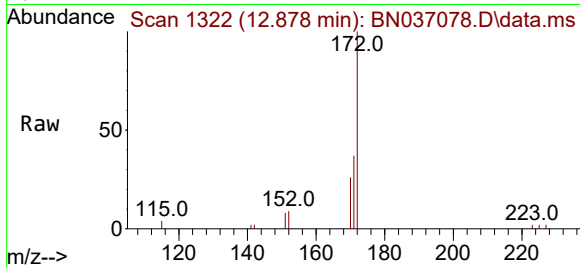
Tgt Ion:172 Resp: 3946

Ion Ratio Lower Upper

172 100

171 36.7 29.2 43.8

170 25.6 20.5 30.7



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037078.D

Acq: 20 May 2025 17:35

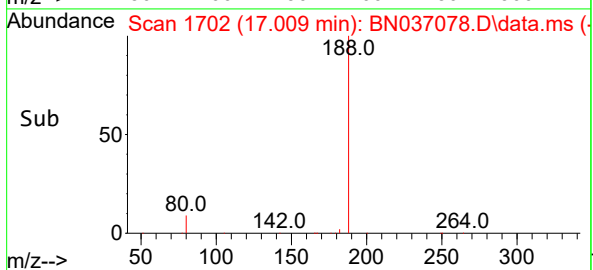
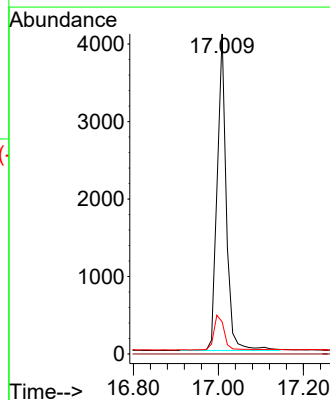
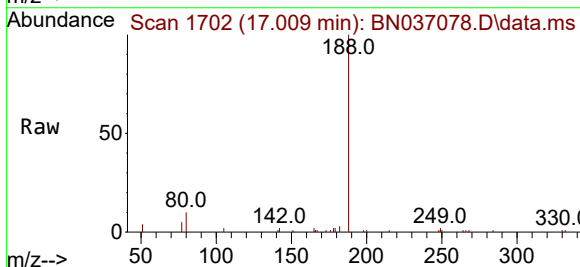
Tgt Ion:188 Resp: 6089

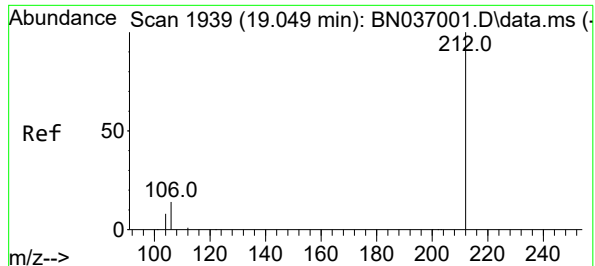
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.1 13.4 20.0#





#27

Fluoranthene-d10

Concen: 0.354 ng

RT: 19.045 min Scan# 1939

Delta R.T. -0.005 min

Lab File: BN037078.D

Acq: 20 May 2025 17:35

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250515

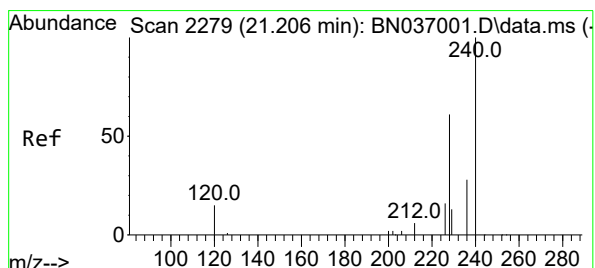
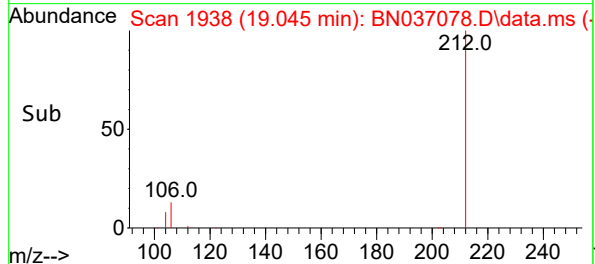
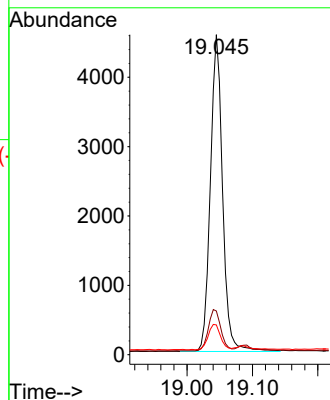
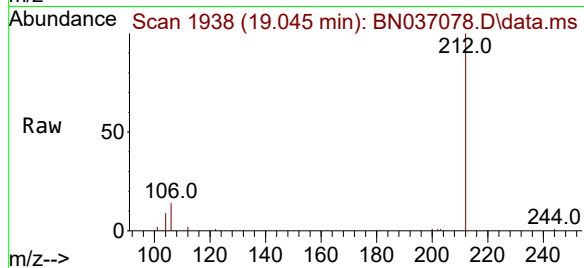
Tgt Ion:212 Resp: 5909

Ion Ratio Lower Upper

212 100

106 13.4 11.3 16.9

104 8.1 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 2279

Delta R.T. 0.000 min

Lab File: BN037078.D

Acq: 20 May 2025 17:35

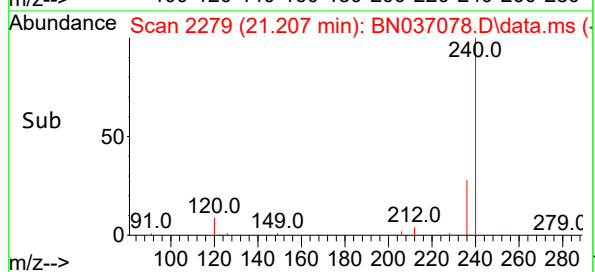
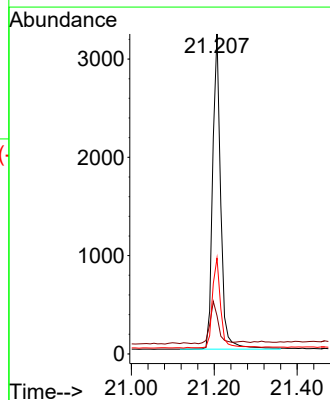
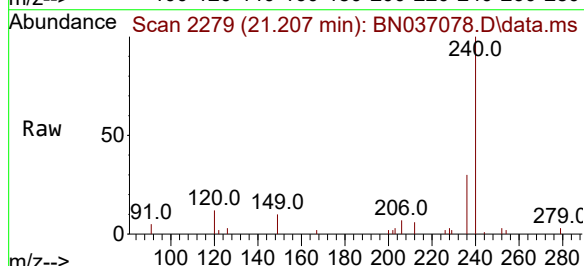
Tgt Ion:240 Resp: 4329

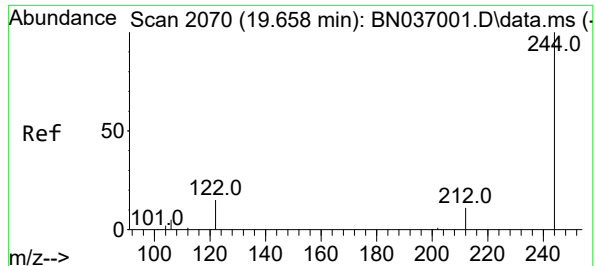
Ion Ratio Lower Upper

240 100

120 11.9 15.1 22.7#

236 29.9 24.0 36.0

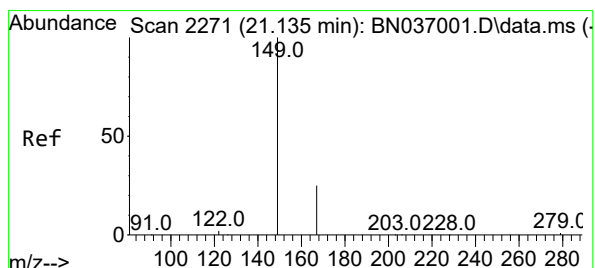
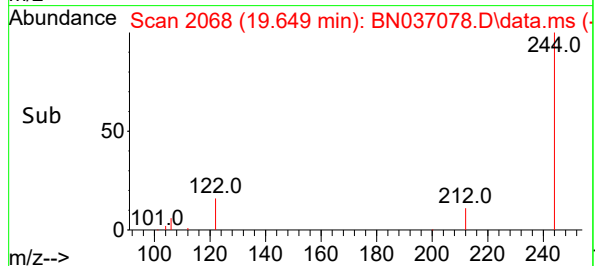
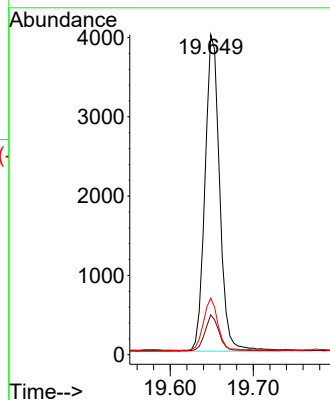
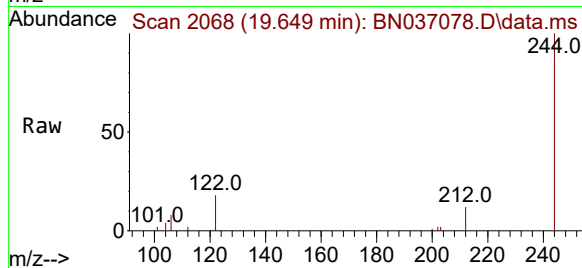




#31
 Terphenyl-d14
 Concen: 0.532 ng
 RT: 19.649 min Scan# 2070
 Delta R.T. -0.009 min
 Lab File: BN037078.D
 Acq: 20 May 2025 17:35

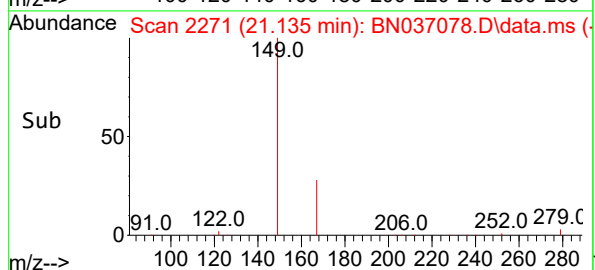
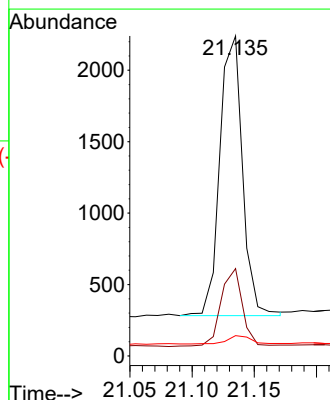
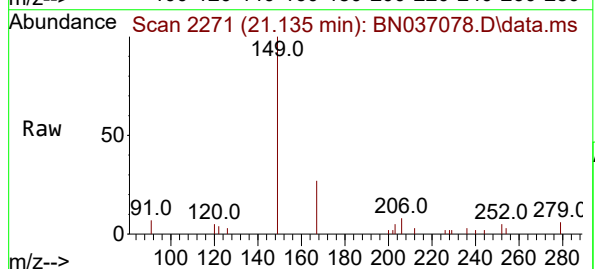
Instrument :
 BNA_N
 ClientSampleId :
 RW5-SP201-20250515

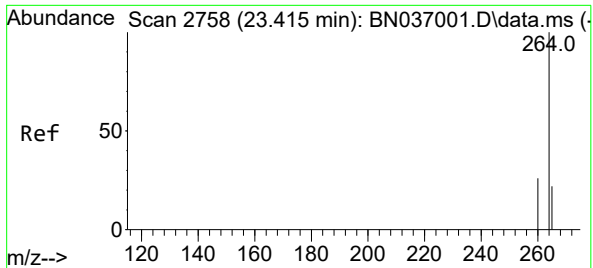
Tgt Ion:244 Resp: 4922
 Ion Ratio Lower Upper
 244 100
 212 12.5 9.7 14.5
 122 17.7 13.4 20.0



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.248 ng
 RT: 21.135 min Scan# 2271
 Delta R.T. 0.000 min
 Lab File: BN037078.D
 Acq: 20 May 2025 17:35

Tgt Ion:149 Resp: 2485
 Ion Ratio Lower Upper
 149 100
 167 26.8 20.6 30.8
 279 3.1 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.407 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037078.D

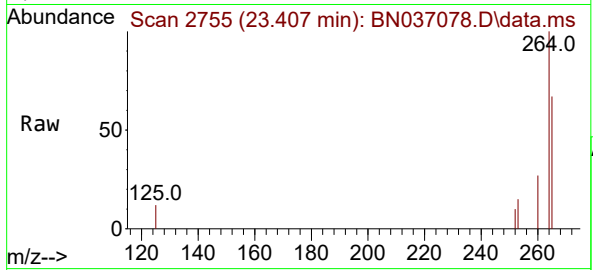
Acq: 20 May 2025 17:35

Instrument :

BNA_N

ClientSampleId :

RW5-SP201-20250515



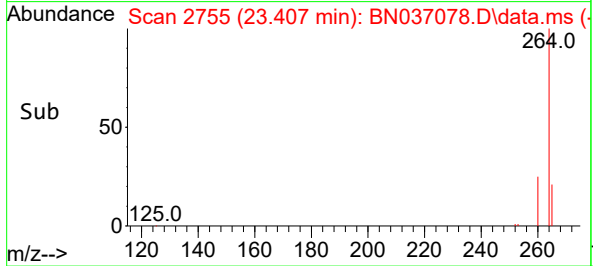
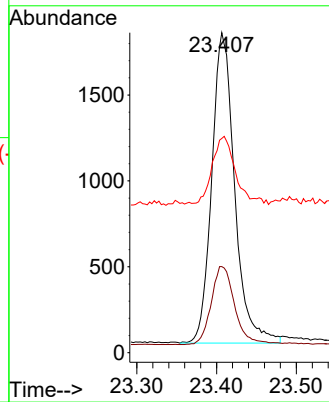
Tgt Ion:264 Resp: 3603

Ion Ratio Lower Upper

264 100

260 26.9 21.9 32.9

265 66.9 51.6 77.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/16/25
Client Sample ID:	RW5-SP303-20250515	SDG No.:	Q2063
Lab Sample ID:	Q2063-03	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
BN037079.D	1	05/16/25 11:50	05/20/25 18:11	PB168032

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	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		88%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.27		55 - 111		68%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.27		53 - 106		67%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1610	7.611				
1146-65-2	Naphthalene-d8	4340	10.394				
15067-26-2	Acenaphthene-d10	2540	14.256				
1517-22-2	Phenanthrene-d10	5160	17.009				
1719-03-5	Chrysene-d12	4020	21.206				
1520-96-3	Perylene-d12	3490	23.409				

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\BN052125\
Data File : BN037079.D
Acq On : 20 May 2025 18:11
Operator : RC/JU
Sample : Q2063-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

Quant Time: May 21 01:38:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

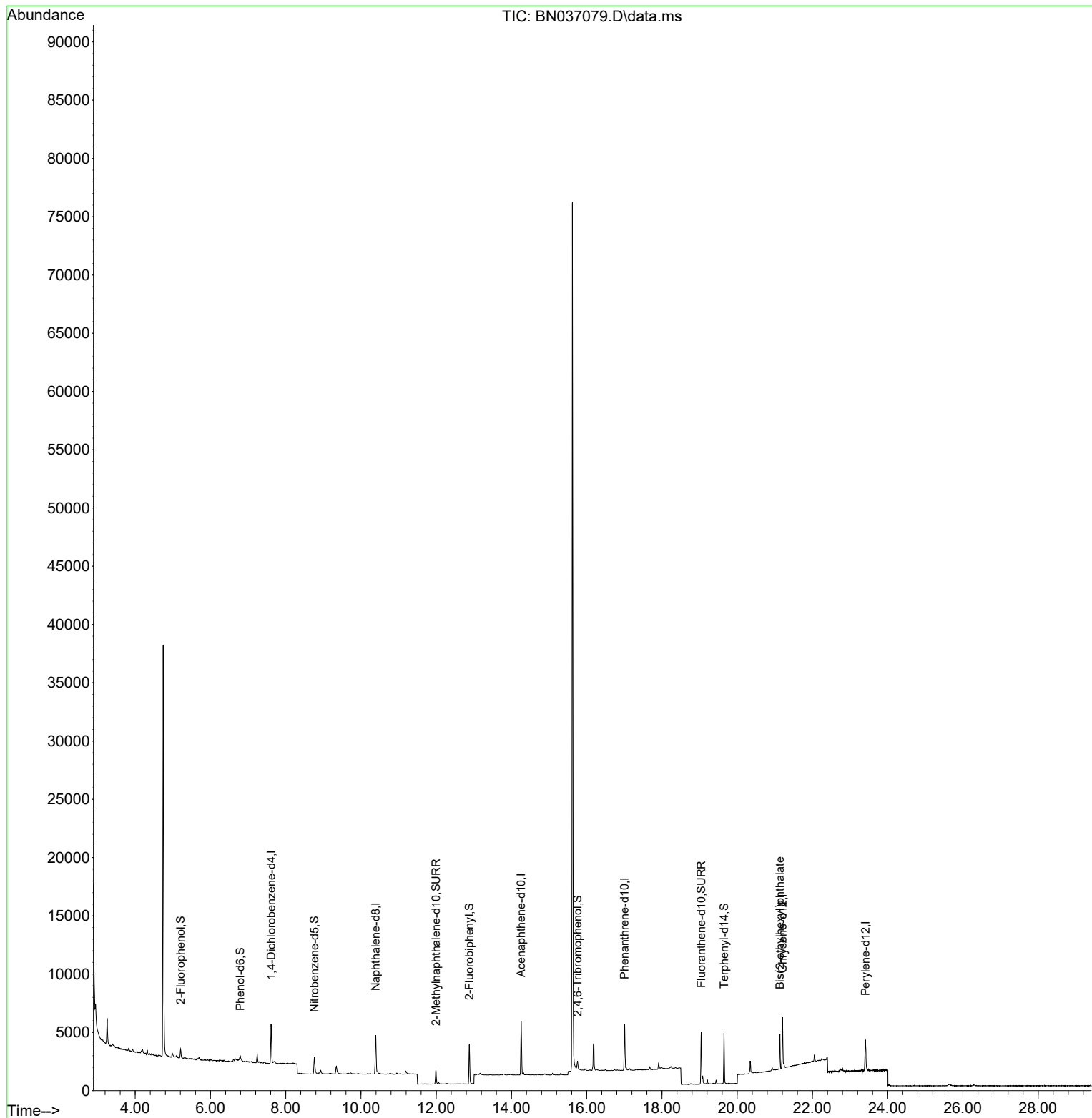
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1605	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4337	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2543	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5161	0.400	ng	# 0.00
29) Chrysene-d12	21.206	240	4016	0.400	ng	# 0.00
35) Perylene-d12	23.409	264	3494	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	547	0.130	ng	0.00
5) Phenol-d6	6.788	99	393	0.075	ng	0.00
8) Nitrobenzene-d5	8.760	82	1276	0.270	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	1710	0.280	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	372	0.333	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	3111	0.267	ng	-0.01
27) Fluoranthene-d10	19.045	212	5013	0.354	ng	0.00
31) Terphenyl-d14	19.649	244	3897	0.454	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.135	149	2742	0.295	ng	99

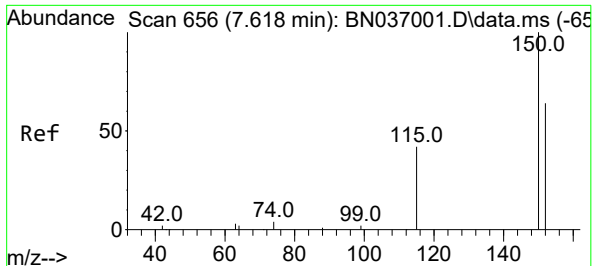
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037079.D
Acq On : 20 May 2025 18:11
Operator : RC/JU
Sample : Q2063-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

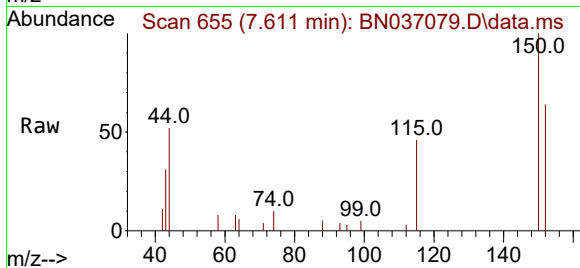
Quant Time: May 21 01:38:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



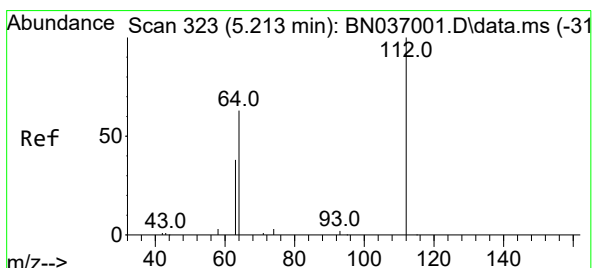
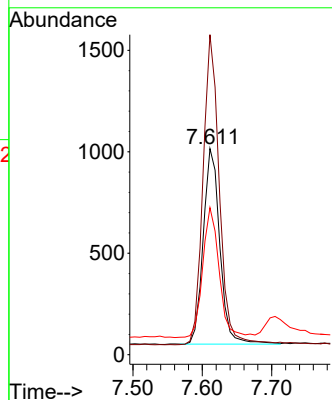
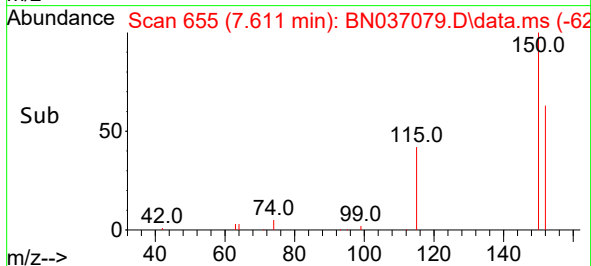


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

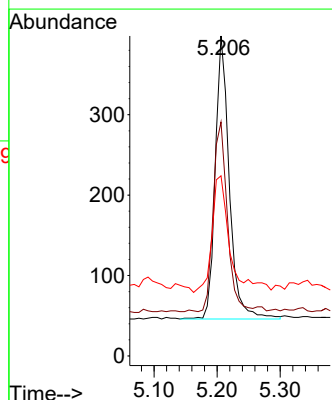
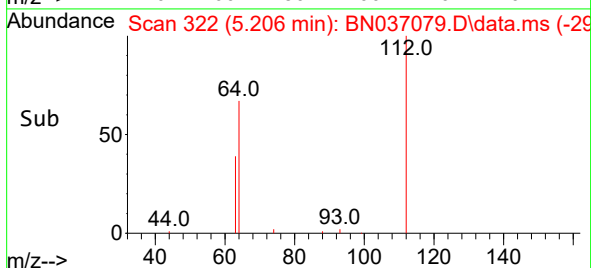
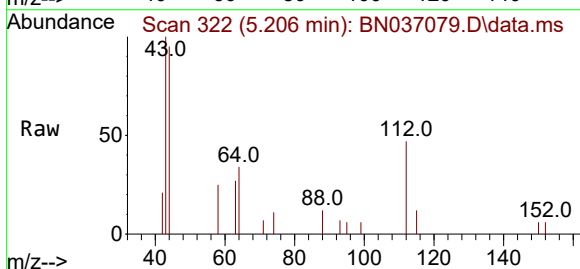


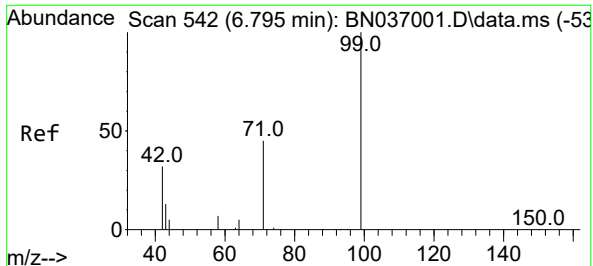
Tgt Ion:152 Resp: 1605
Ion Ratio Lower Upper
152 100
150 155.2 123.9 185.9
115 71.4 55.8 83.8



#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

Tgt Ion:112 Resp: 547
Ion Ratio Lower Upper
112 100
64 67.1 55.7 83.5
63 51.7 34.6 51.8

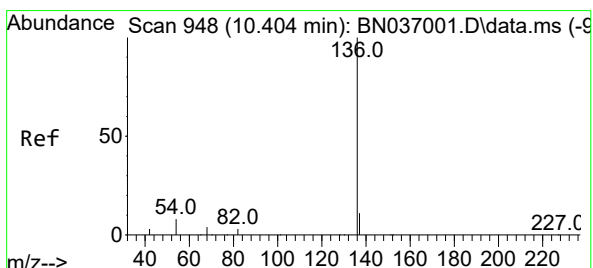
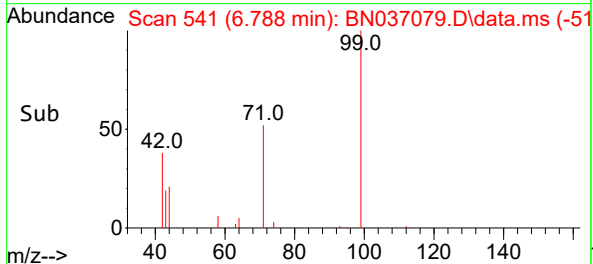
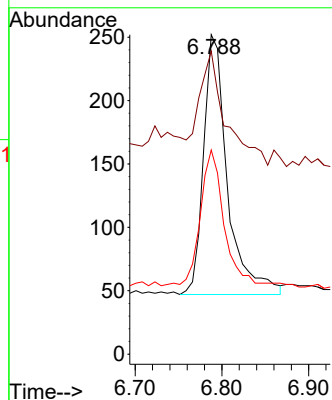
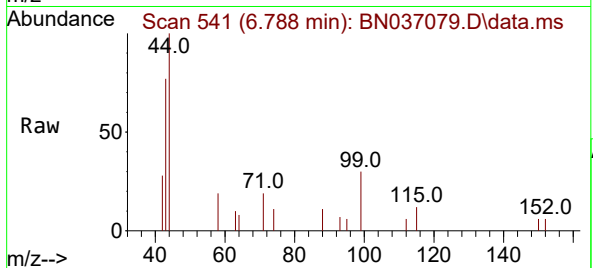




#5
Phenol-d6
Concen: 0.075 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

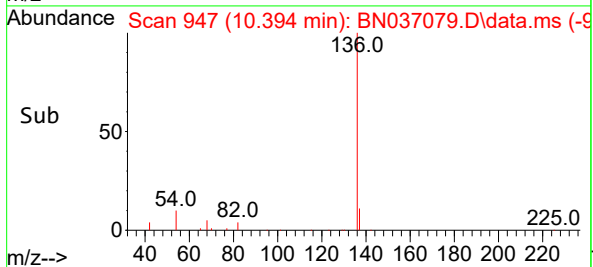
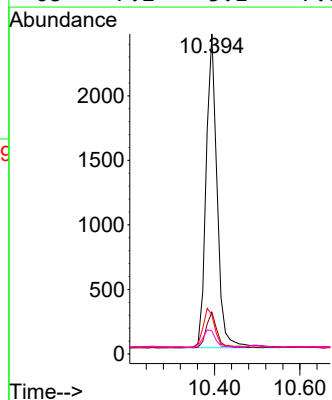
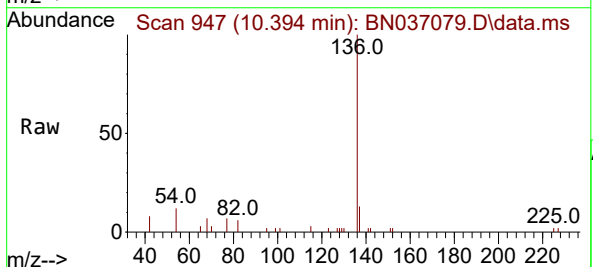
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

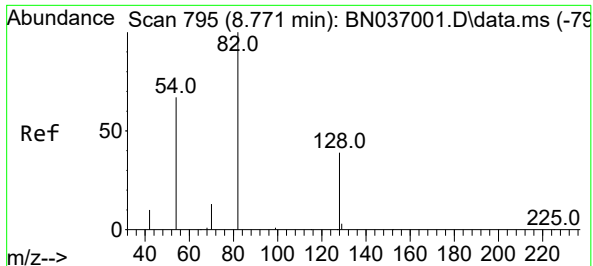
Tgt Ion: 99 Resp: 393
Ion Ratio Lower Upper
99 100
42 48.3 29.3 43.9#
71 53.9 35.7 53.5#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

Tgt Ion: 136 Resp: 4337
Ion Ratio Lower Upper
136 100
137 13.1 10.4 15.6
54 12.2 8.5 12.7
68 7.2 5.1 7.7

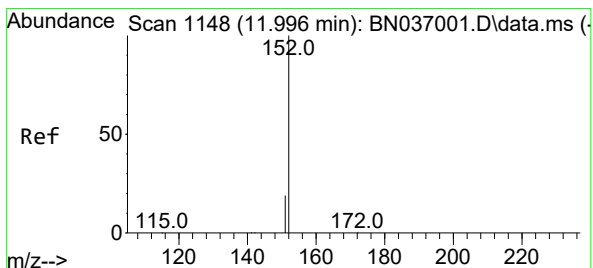
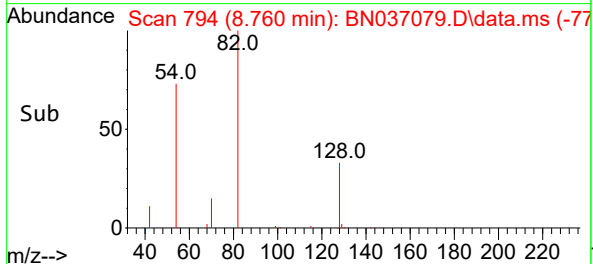
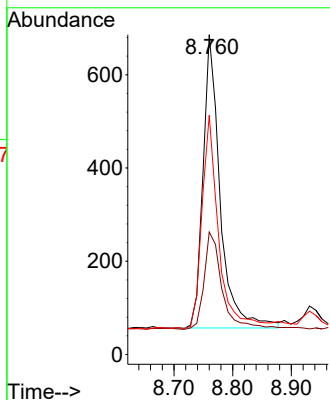
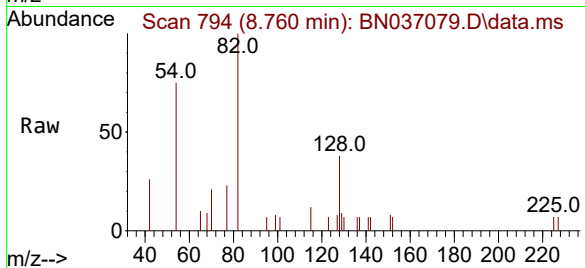




#8
Nitrobenzene-d5
Concen: 0.270 ng
RT: 8.760 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

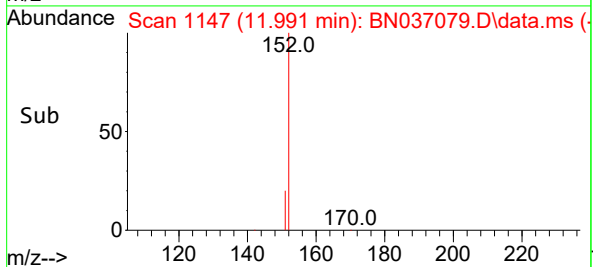
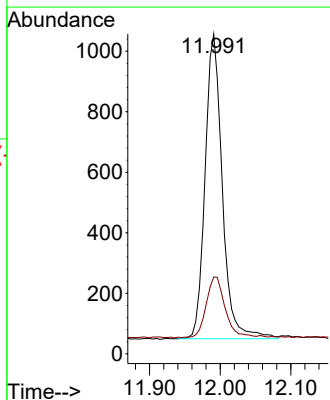
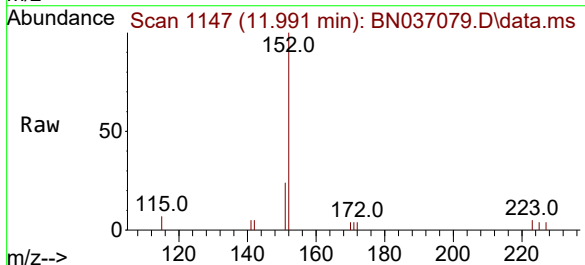
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

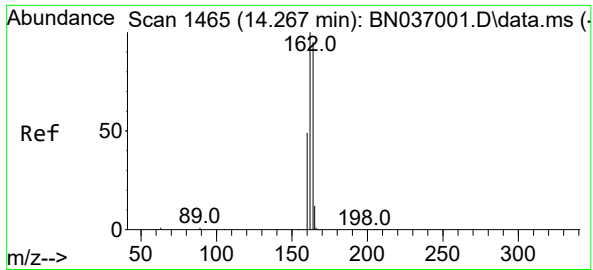
Tgt Ion:	82	Resp:	1276
Ion	Ratio	Lower	Upper
82	100		
128	38.3	34.0	51.0
54	74.8	55.0	82.4



#11
2-Methylnaphthalene-d10
Concen: 0.280 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

Tgt Ion:	152	Resp:	1710
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.5	26.3

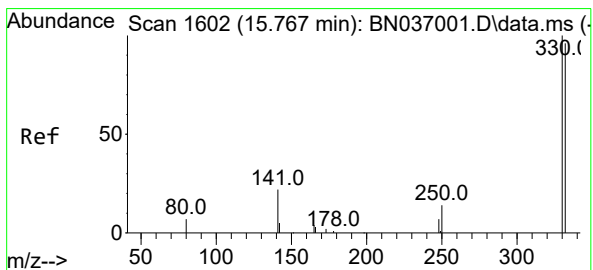
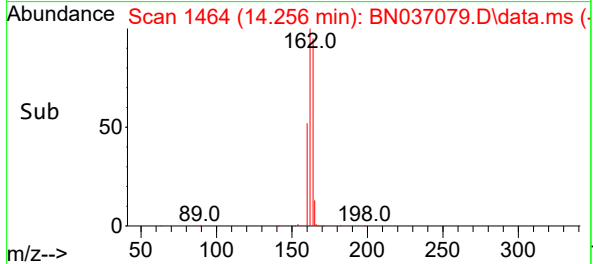
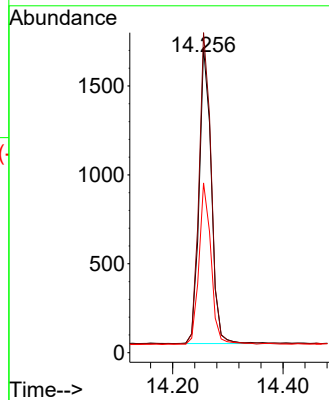
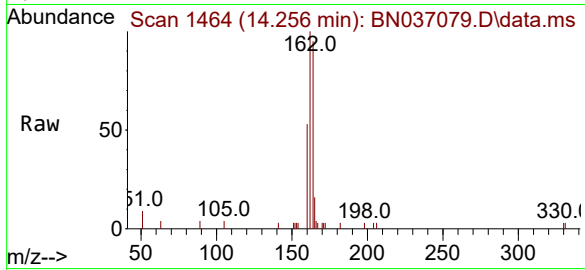




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

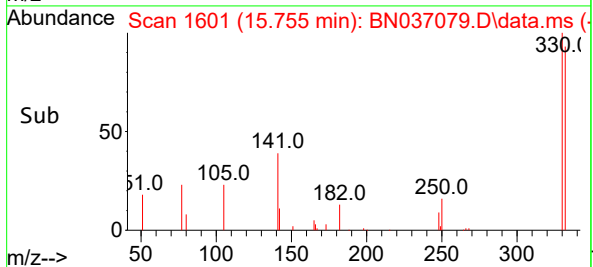
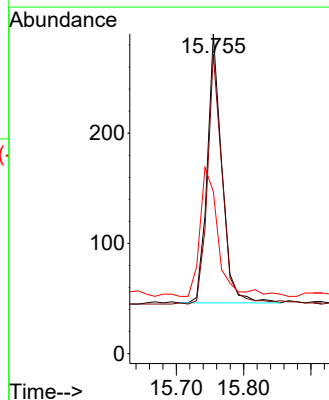
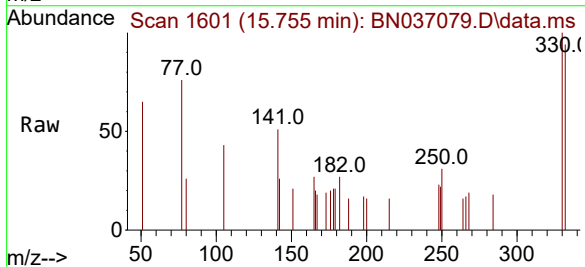
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

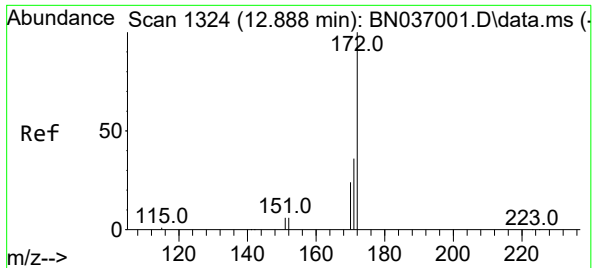
Tgt Ion:164 Resp: 2543
Ion Ratio Lower Upper
164 100
162 104.8 84.2 126.4
160 55.6 42.6 63.8



#14
2,4,6-Tribromophenol
Concen: 0.333 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

Tgt Ion:330 Resp: 372
Ion Ratio Lower Upper
330 100
332 95.7 73.8 110.8
141 59.1 43.9 65.9

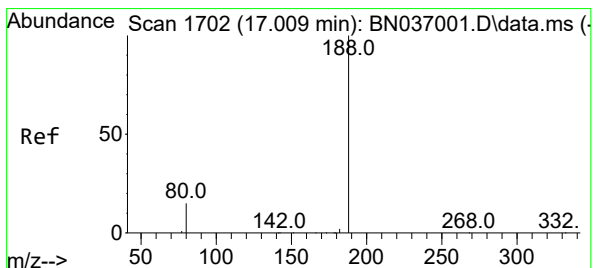
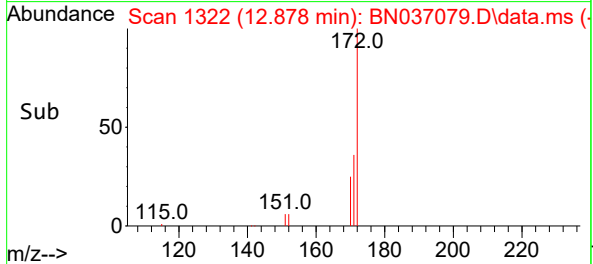
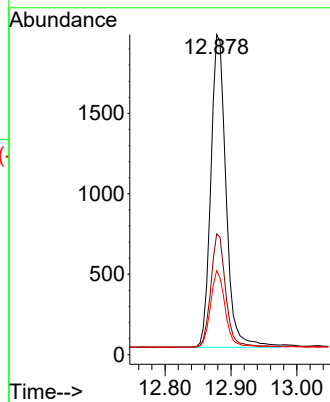
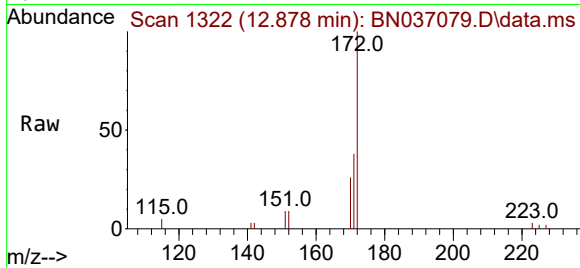




#15
2-Fluorobiphenyl
Concen: 0.267 ng
RT: 12.878 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

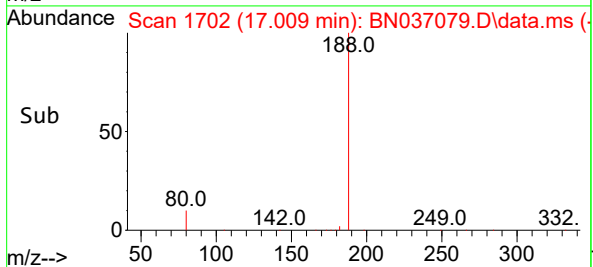
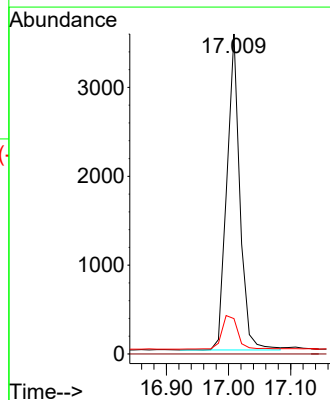
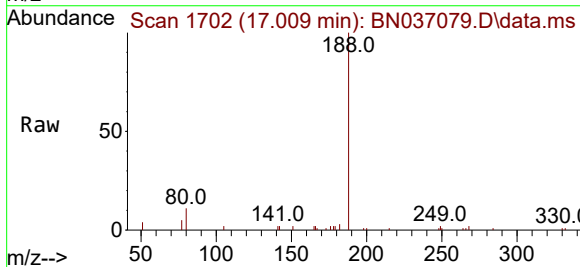
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

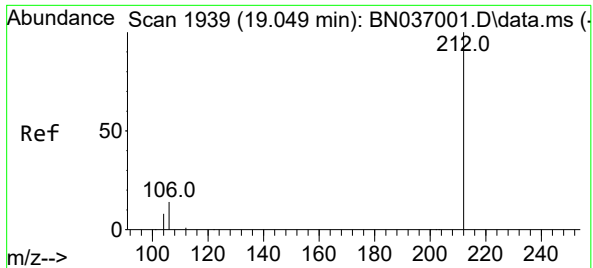
Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.8	29.2	43.8
170	26.2	20.5	30.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.0	13.4	20.0





#27

Fluoranthene-d10

Concen: 0.354 ng

RT: 19.045 min Scan# 1939

Delta R.T. -0.005 min

Lab File: BN037079.D

Acq: 20 May 2025 18:11

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250515

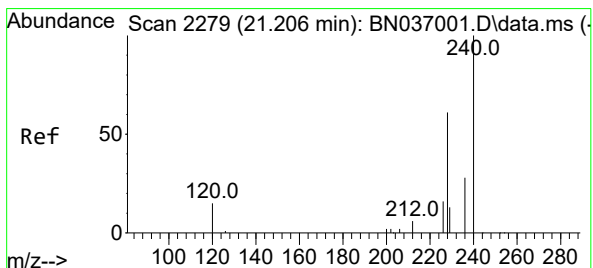
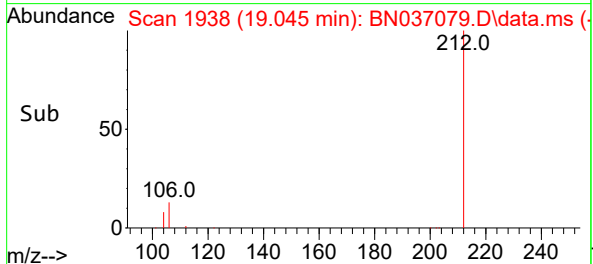
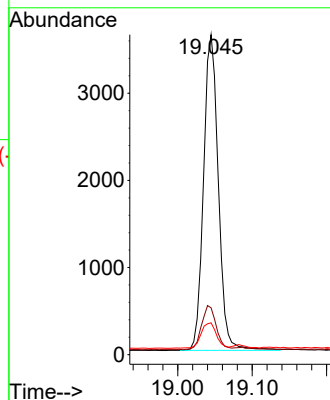
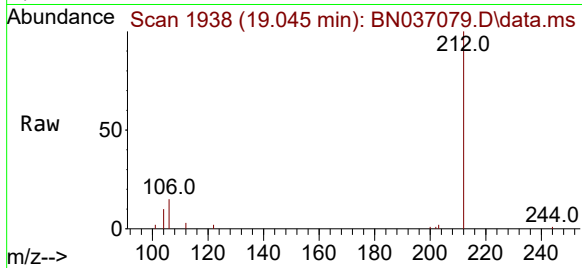
Tgt Ion:212 Resp: 5013

Ion Ratio Lower Upper

212 100

106 13.7 11.3 16.9

104 8.4 6.7 10.1



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 2279

Delta R.T. 0.000 min

Lab File: BN037079.D

Acq: 20 May 2025 18:11

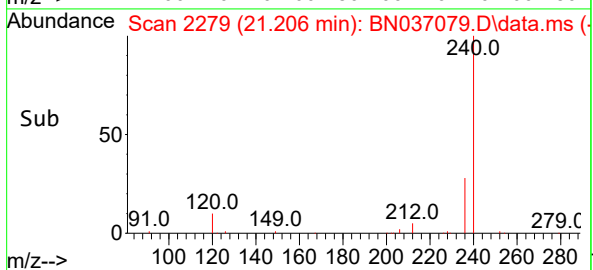
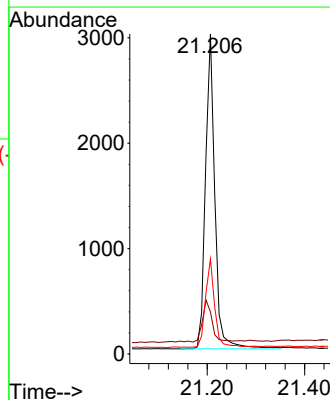
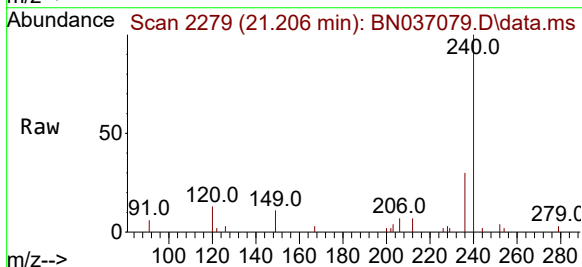
Tgt Ion:240 Resp: 4016

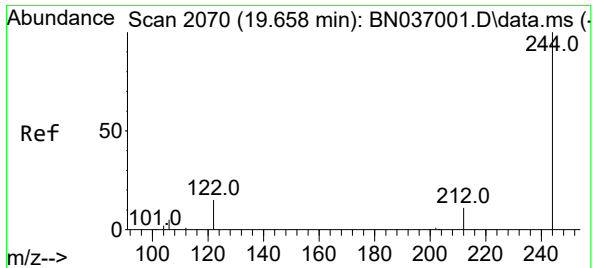
Ion Ratio Lower Upper

240 100

120 13.1 15.1 22.7#

236 29.7 24.0 36.0

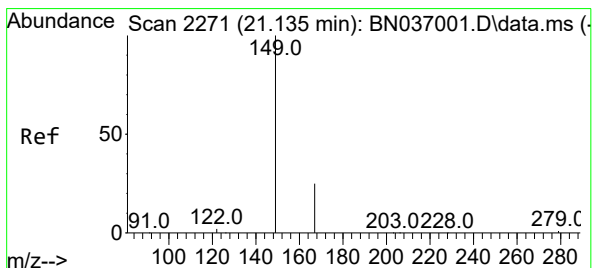
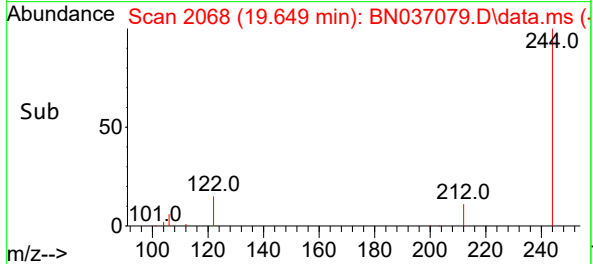
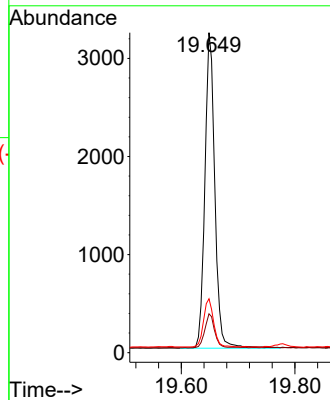
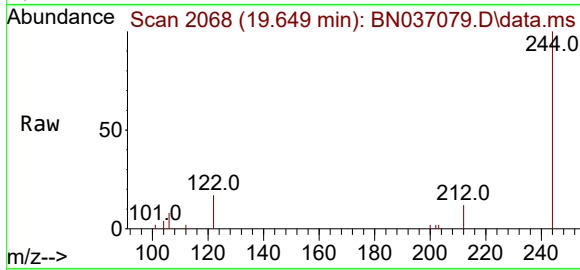




#31
Terphenyl-d14
Concen: 0.454 ng
RT: 19.649 min Scan# 2070
Delta R.T. -0.009 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

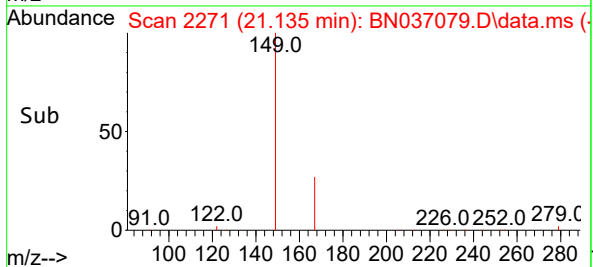
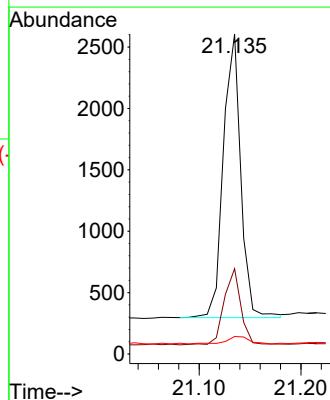
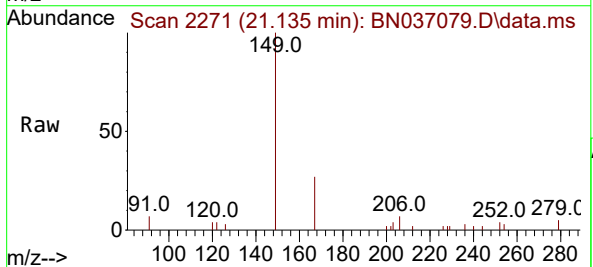
Instrument :
BNA_N
ClientSampleId :
RW5-SP303-20250515

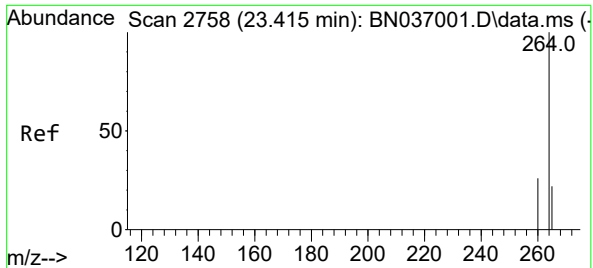
Tgt Ion:244 Resp: 3897
Ion Ratio Lower Upper
244 100
212 12.2 9.7 14.5
122 16.9 13.4 20.0



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.295 ng
RT: 21.135 min Scan# 2271
Delta R.T. 0.000 min
Lab File: BN037079.D
Acq: 20 May 2025 18:11

Tgt Ion:149 Resp: 2742
Ion Ratio Lower Upper
149 100
167 26.3 20.6 30.8
279 3.2 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.409 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037079.D

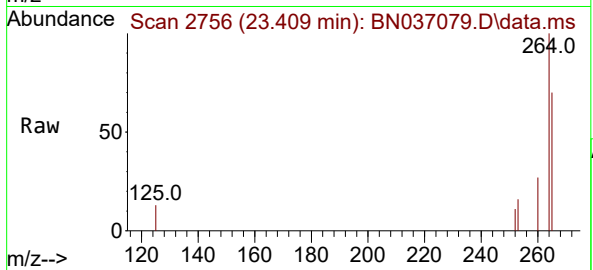
Acq: 20 May 2025 18:11

Instrument :

BNA_N

ClientSampleId :

RW5-SP303-20250515



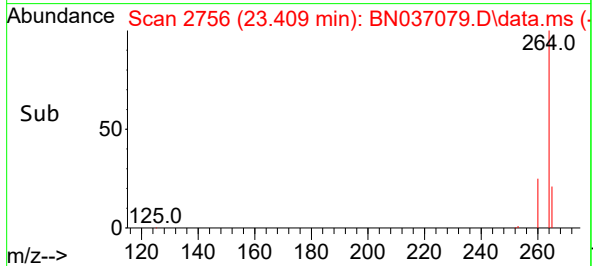
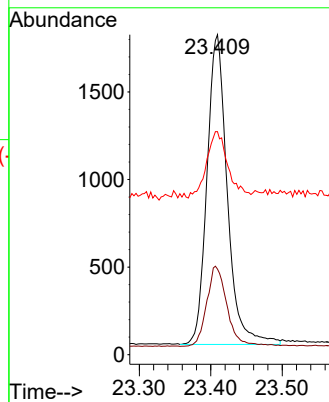
Tgt Ion:264 Resp: 3494

Ion Ratio Lower Upper

264 100

260 26.8 21.9 32.9

265 69.7 51.6 77.4





CALIBRATION SUMMARY

- 1
- 2
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- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN051425.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed May 14 11:26:32 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036999.D 0.2 =BN037000.D 0.4 =BN037001.D 0.8 =BN037002.D 1.6 =BN037003.D 3.2 =BN037004.D 5.0 =BN037005.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	0.510	0.512	0.487	0.514	0.467	0.454	0.491	5.25	
3)	n-Nitrosodimet...	1.465	0.974	0.980	0.971	1.075	0.967	0.950	1.054	17.59
4) S	2-Fluorophenol	1.101	1.134	1.024	1.093	0.964	0.971	1.048	6.87	
5) S	Phenol-d6	1.304	1.385	1.236	1.392	1.259	1.292	1.311	4.91	
6)	bis(2-Chloroet...	1.441	1.163	1.153	1.135	1.240	1.168	1.148	1.207	9.02
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.546	0.383	0.398	0.400	0.452	0.426	0.442	0.436	12.60
9)	Naphthalene	1.326	1.140	1.144	1.122	1.226	1.152	1.165	1.182	6.05
10)	Hexachlorobuta...	0.286	0.248	0.244	0.235	0.256	0.236	0.233	0.248	7.47
11) SURR2	Methylnaphth...	0.529	0.547	0.552	0.548	0.603	0.574	0.588	0.563	4.65
12)	2-Methylnaphth...	0.754	0.724	0.736	0.733	0.814	0.770	0.790	0.760	4.34
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.174	0.168	0.178	0.160	0.186	0.175	0.189	0.176	5.77
15) S	2-Fluorobiphenyl	1.912	1.801	1.901	1.802	1.927	1.672	1.807	1.832	4.90
16)	Acenaphthylene	1.906	1.838	1.894	1.849	2.071	1.997	2.075	1.947	5.14
17)	Acenaphthene	1.255	1.229	1.243	1.217	1.350	1.298	1.315	1.272	3.89
18)	Fluorene	1.602	1.581	1.635	1.611	1.779	1.721	1.752	1.669	4.80
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.060	0.073	0.079	0.102	0.103	0.124	0.090	26.02	
21)	4-Bromophenyl-...	0.243	0.246	0.250	0.247	0.262	0.261	0.259	0.253	3.13
22)	Hexachlorobenzene	0.267	0.269	0.281	0.259	0.281	0.270	0.267	0.270	3.03
23)	Atrazine	0.199	0.207	0.211	0.213	0.237	0.234	0.242	0.220	7.64
24)	Pentachlorophenol	0.133	0.134	0.141	0.137	0.159	0.162	0.177	0.149	11.45
25)	Phenanthrene	1.259	1.272	1.292	1.263	1.367	1.337	1.361	1.307	3.56
26)	Anthracene	1.099	1.104	1.166	1.130	1.269	1.259	1.300	1.190	7.13
27) SURR	Fluoranthene-d10	1.033	1.033	1.078	1.042	1.153	1.161	1.178	1.097	5.95
28)	Fluoranthene	1.461	1.439	1.500	1.496	1.670	1.672	1.693	1.562	7.13
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.744	1.708	1.727	1.656	1.790	1.641	1.711	1.711	2.96
31) S	Terphenyl-d14	0.897	0.844	0.871	0.822	0.891	0.816	0.848	0.856	3.73
32)	Benzo(a)anthra...	1.463	1.432	1.485	1.438	1.594	1.521	1.609	1.506	4.77
33)	Chrysene	1.655	1.559	1.616	1.532	1.653	1.560	1.576	1.593	3.05
34)	Bis(2-ethylhex...	0.955	0.919	0.906	0.855	0.941	0.903	1.011	0.927	5.27
35) I	Perylene-d12	-----ISTD-----								

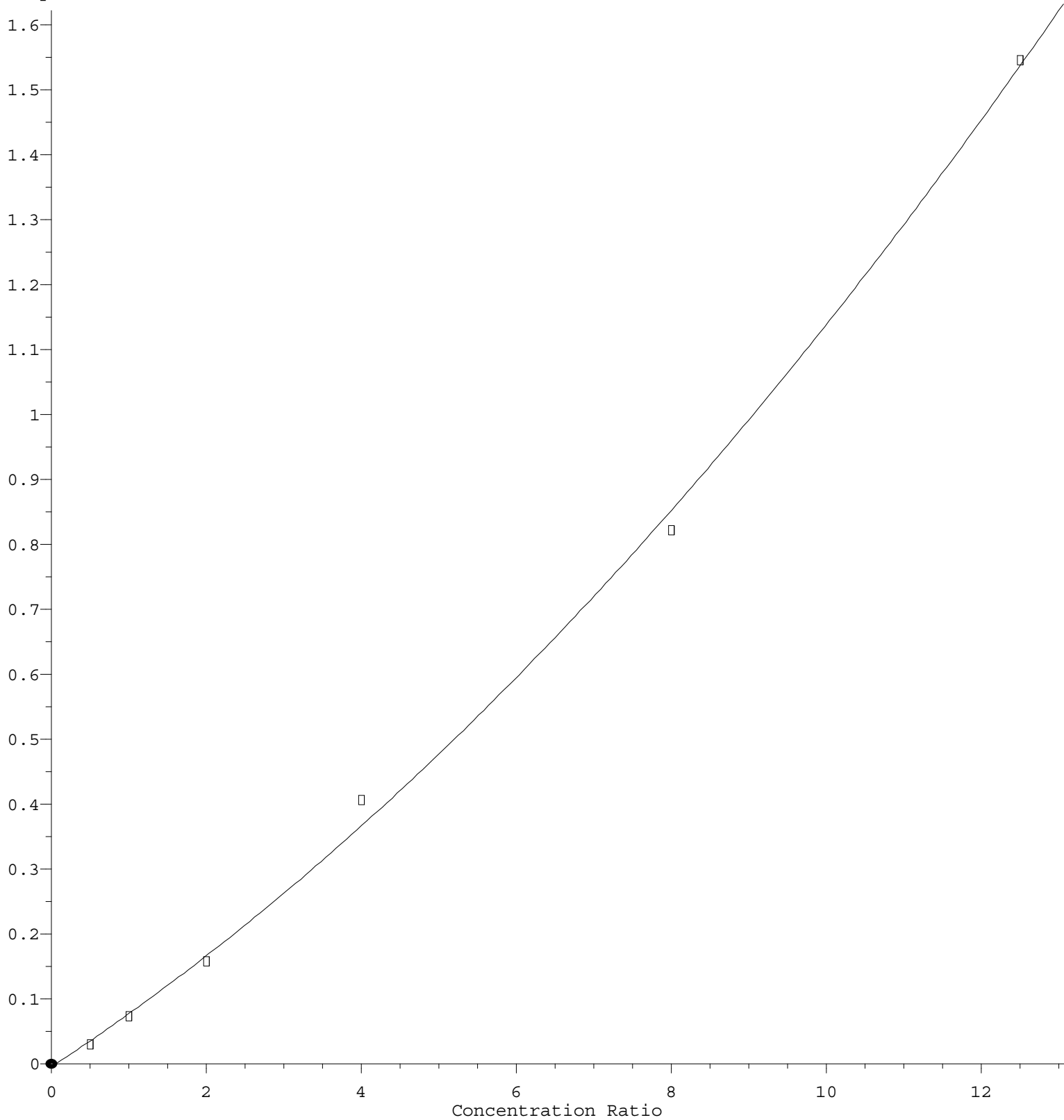
Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN051425.M

36)	Indeno(1,2,3-c...	1.511	1.613	1.645	1.568	1.687	1.732	1.680	1.634	4.65
37)	Benzo(b)fluora...	1.631	1.570	1.602	1.599	1.749	1.698	1.765	1.659	4.71
38)	Benzo(k)fluora...	1.539	1.538	1.642	1.601	1.770	1.661	1.719	1.639	5.34
39) C	Benzo(a)pyrene	1.380	1.343	1.381	1.331	1.486	1.444	1.486	1.407	4.59
40)	Dibenzo(a,h)an...	1.116	1.232	1.273	1.237	1.340	1.376	1.334	1.272	6.90
41)	Benzo(g,h,i)pe...	1.299	1.407	1.424	1.330	1.403	1.439	1.376	1.383	3.72

(#) = Out of Range

Response Ratio



$$R = 3.599e-003 A^2 + 7.833e-002 A - 4.644e-003$$

Coef of Det (r^2) = 0.998418 Curve Fit: Quadratic

Method: SVE-C-SIM Group1

Calibration Table Last Updated: Wed May 14 11:26:32 2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN036999.D
 Acq On : 13 May 2025 17:41
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: May 14 10:59:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

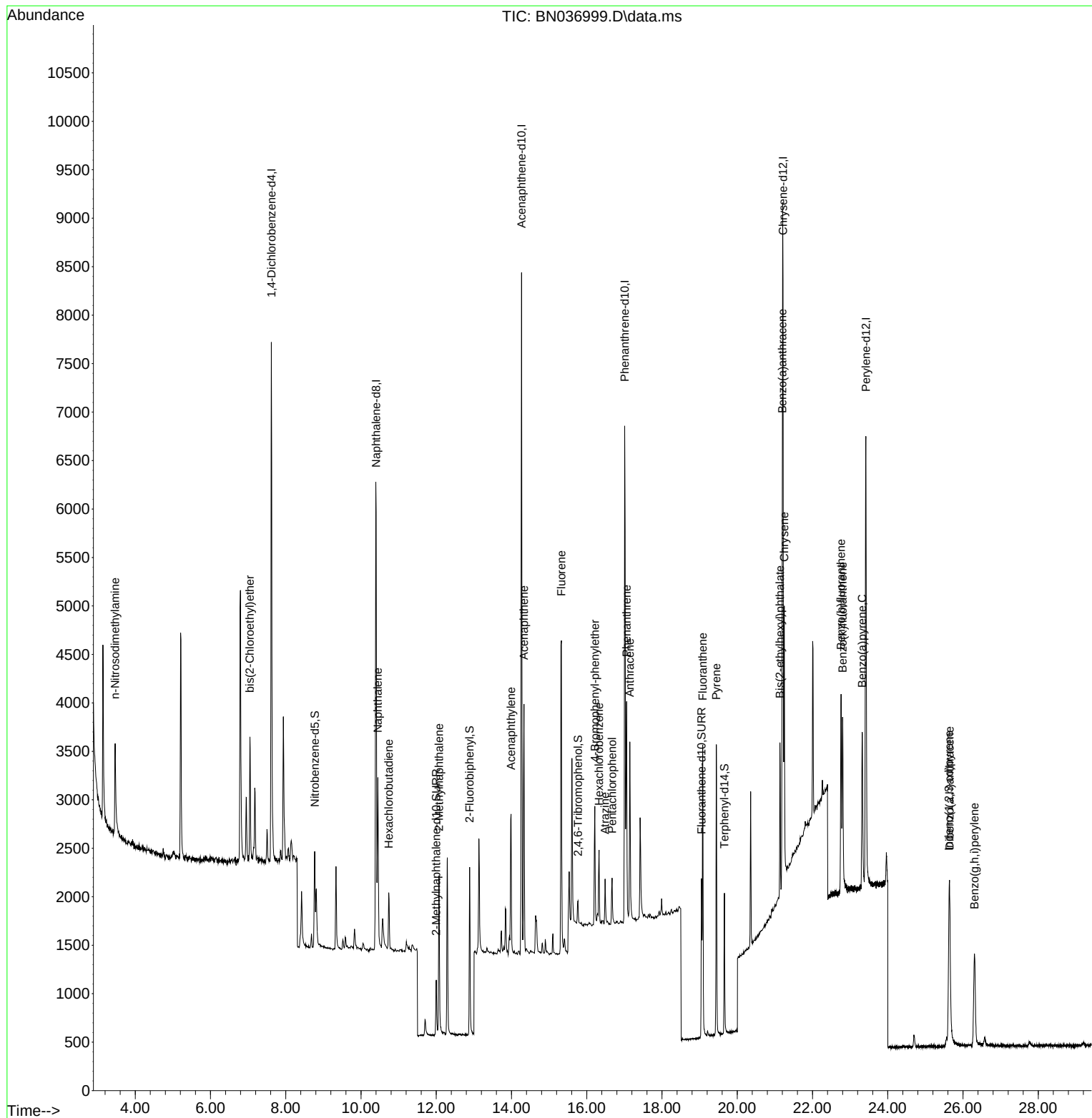
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2512	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6713	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	3705	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	7492	0.400	ng	0.00
29) Chrysene-d12	21.216	240	6297	0.400	ng	# 0.00
35) Perylene-d12	23.418	264	6037	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.771	82	917	0.125	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	888	0.094	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	161	0.099	ng	0.00
15) 2-Fluorobiphenyl	12.889	172	1771	0.104	ng	0.00
27) Fluoranthene-d10	19.049	212	1934	0.094	ng	0.00
31) Terphenyl-d14	19.658	244	1412	0.105	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.466	42	920	0.139	ng	# 94
6) bis(2-Chloroethyl)ether	7.048	93	905	0.119	ng	98
9) Naphthalene	10.447	128	2225	0.112	ng	97
10) Hexachlorobutadiene	10.735	225	480	0.115	ng	# 100
12) 2-Methylnaphthalene	12.072	142	1266	0.099	ng	98
16) Acenaphthylene	13.989	152	1765	0.098	ng	99
17) Acenaphthene	14.331	154	1162	0.099	ng	99
18) Fluorene	15.325	166	1484	0.096	ng	99
21) 4-Bromophenyl-phenylether	16.214	248	455	0.096	ng	98
22) Hexachlorobenzene	16.326	284	500	0.099	ng	97
23) Atrazine	16.487	200	372	0.090	ng	# 93
24) Pentachlorophenol	16.674	266	249	0.088	ng	97
25) Phenanthrene	17.058	178	2359	0.096	ng	99
26) Anthracene	17.145	178	2059	0.092	ng	99
28) Fluoranthene	19.082	202	2737	0.094	ng	100
30) Pyrene	19.444	202	2745	0.102	ng	100
32) Benzo(a)anthracene	21.198	228	2303	0.097	ng	96
33) Chrysene	21.251	228	2605	0.104	ng	97
34) Bis(2-ethylhexyl)phtha...	21.135	149	1504	0.103	ng	99
36) Indeno(1,2,3-cd)pyrene	25.629	276	2280	0.092	ng	97
37) Benzo(b)fluoranthene	22.758	252	2461	0.098	ng	# 75
38) Benzo(k)fluoranthene	22.801	252	2322	0.094	ng	# 73
39) Benzo(a)pyrene	23.322	252	2083	0.098	ng	# 62
40) Dibenzo(a,h)anthracene	25.646	278	1685	0.088	ng	# 78
41) Benzo(g,h,i)perylene	26.304	276	1960	0.094	ng	# 87

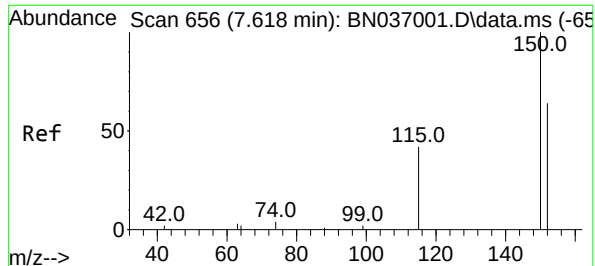
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036999.D
Acq On : 13 May 2025 17:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: May 14 10:59:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

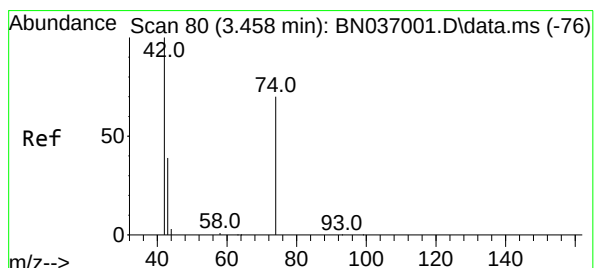
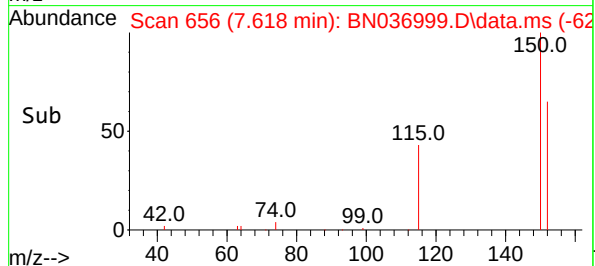
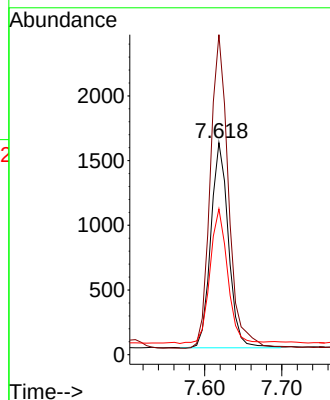
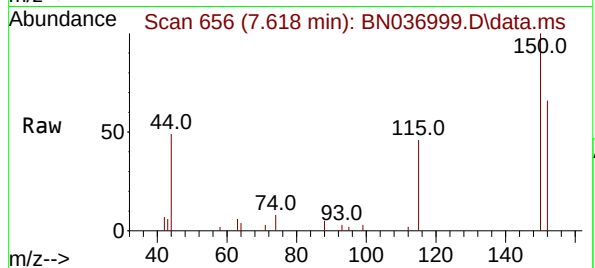




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

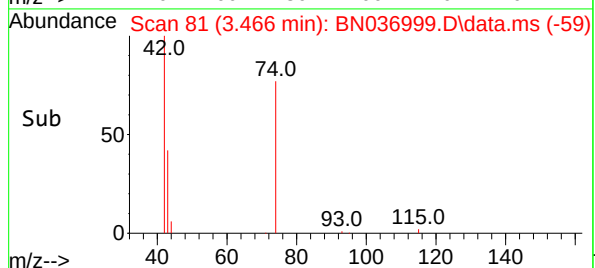
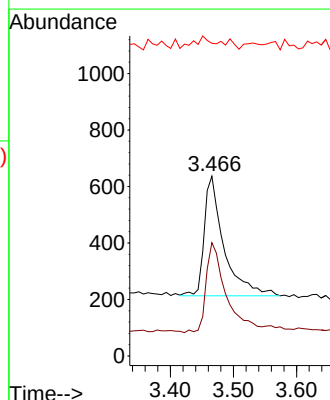
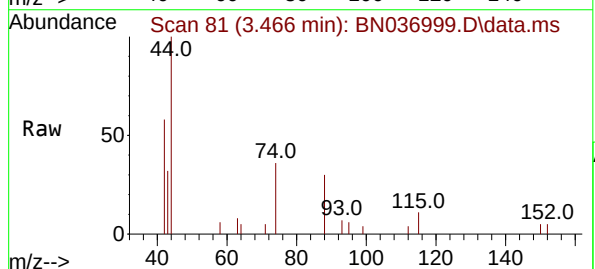
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

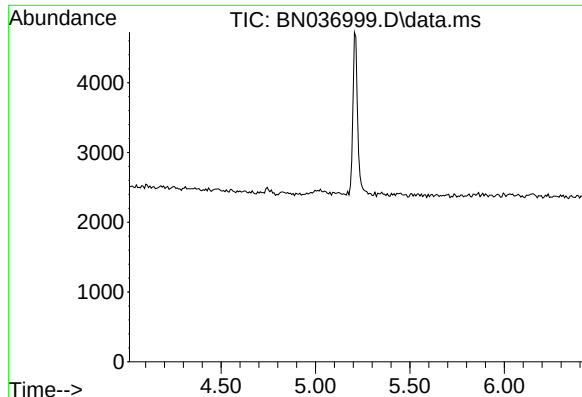
Tgt Ion: 152 Resp: 2512
Ion Ratio Lower Upper
152 100
150 150.9 123.9 185.9
115 68.7 55.8 83.8



#3
n-Nitrosodimethylamine
Concen: 0.139 ng
RT: 3.466 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion: 42 Resp: 920
Ion Ratio Lower Upper
42 100
74 76.3 59.8 89.6
44 4.1 11.9 17.9#



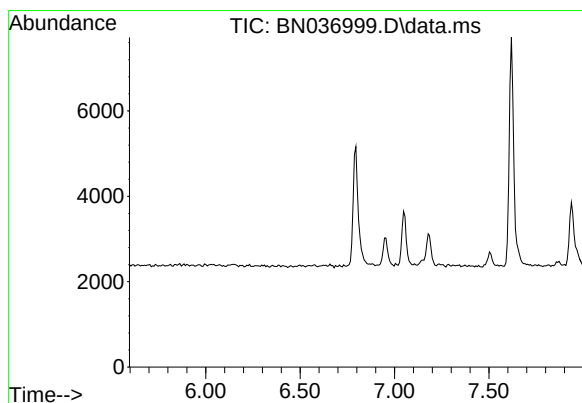
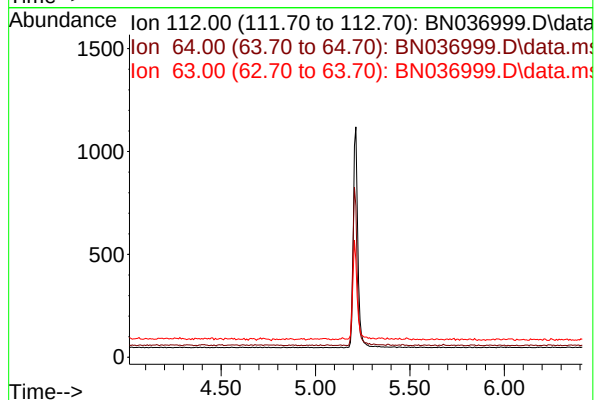


#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.21 min

Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

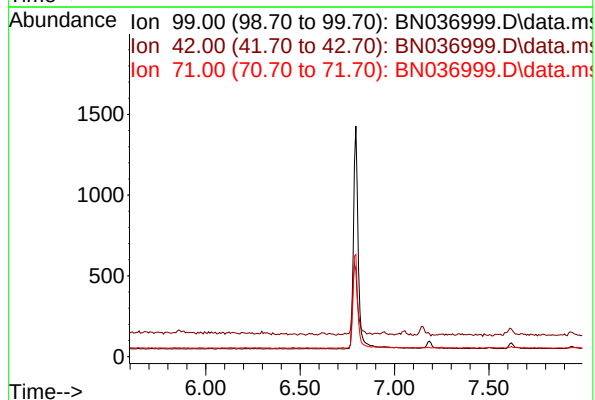
Tgt Ion: 112
Sig Exp Ratio
112 100
64 69.6
63 43.2

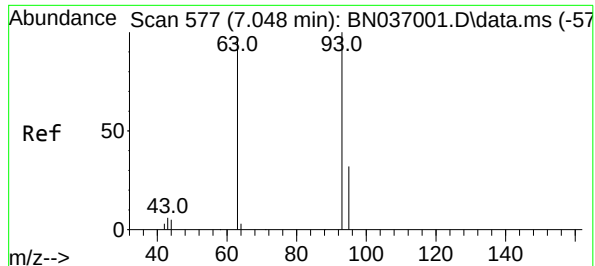


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.79 min

Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion: 99
Sig Exp Ratio
99 100
42 36.6
71 44.6

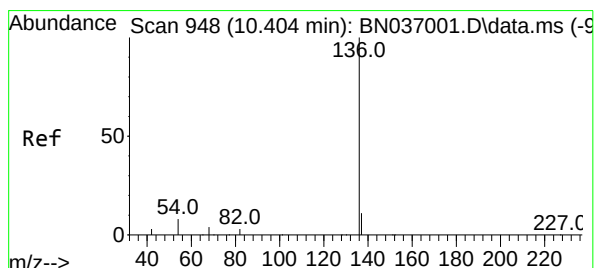
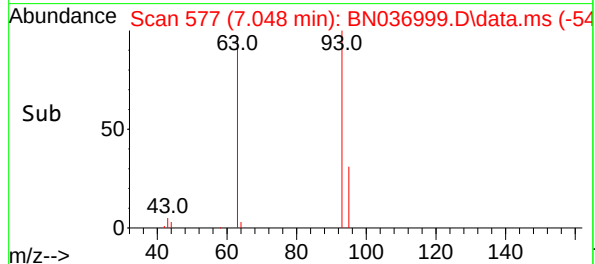
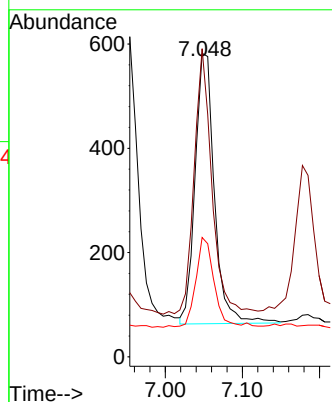
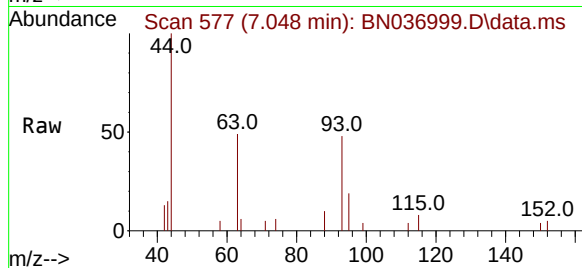




#6
bis(2-Chloroethyl)ether
Concen: 0.119 ng
RT: 7.048 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

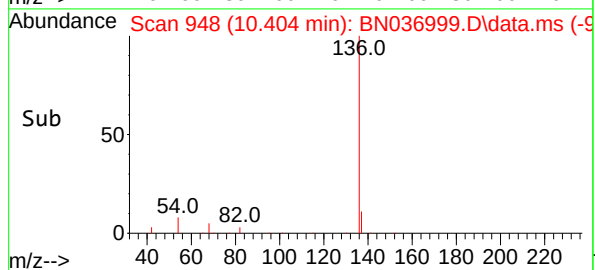
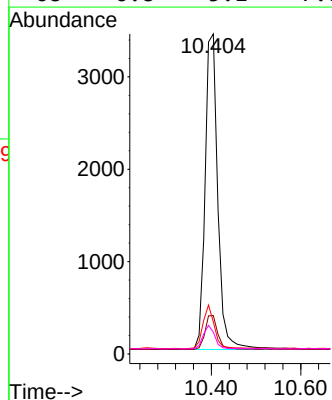
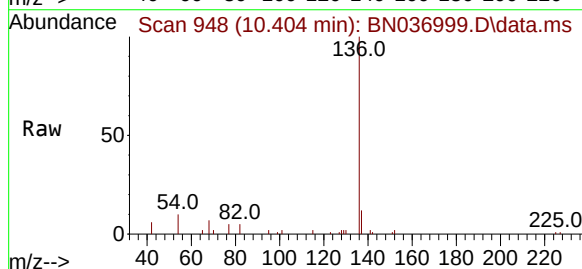
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

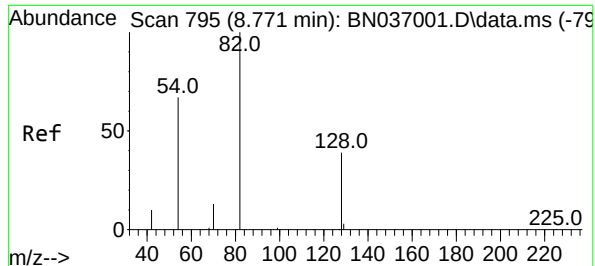
Tgt Ion	Ratio	Lower	Upper
93	100		
63	90.2	70.1	105.1
95	32.2	26.2	39.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	10.0	8.5	12.7
68	6.8	5.1	7.7

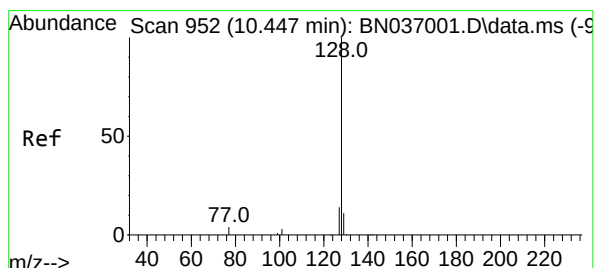
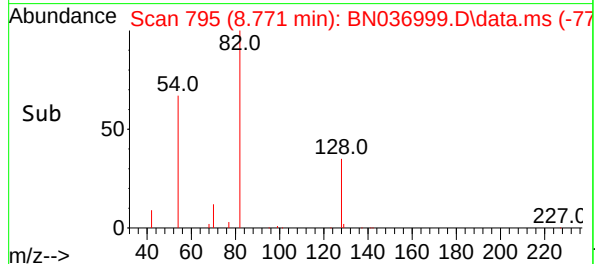
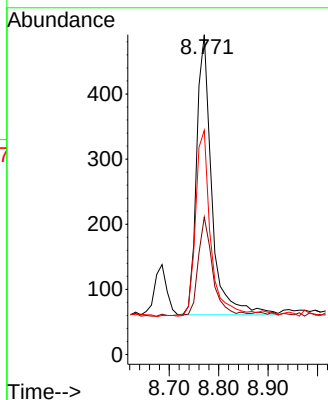
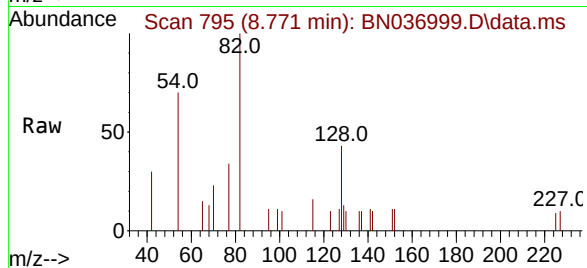




#8
Nitrobenzene-d5
Concen: 0.125 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

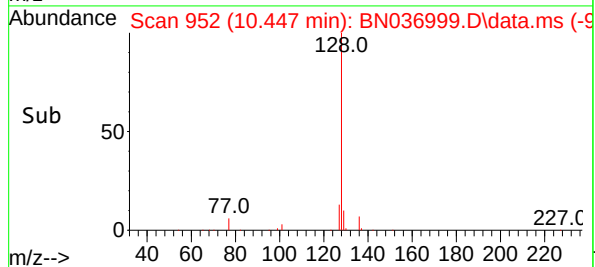
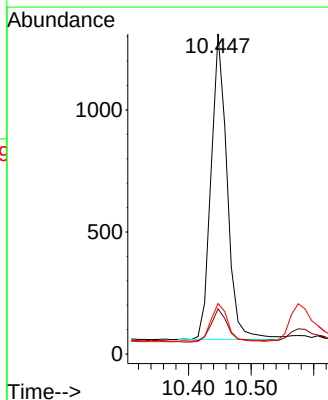
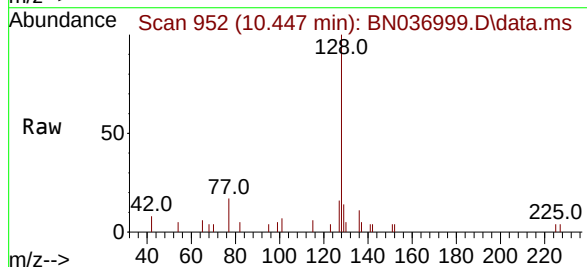
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

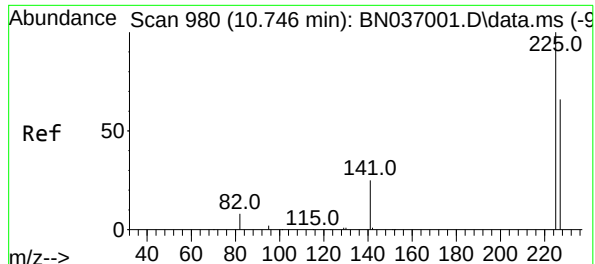
Tgt Ion: 82 Resp: 917
Ion Ratio Lower Upper
82 100
128 43.0 34.0 51.0
54 70.1 55.0 82.4



#9
Naphthalene
Concen: 0.112 ng
RT: 10.447 min Scan# 952
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion: 128 Resp: 2225
Ion Ratio Lower Upper
128 100
129 14.1 9.7 14.5
127 15.8 12.4 18.6





#10

Hexachlorobutadiene

Concen: 0.115 ng

RT: 10.735 min Scan# 91

Delta R.T. -0.011 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

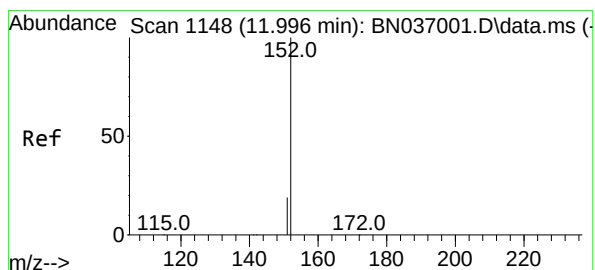
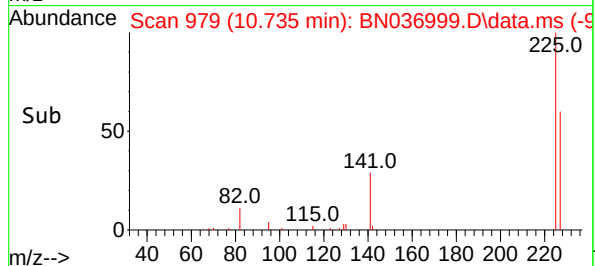
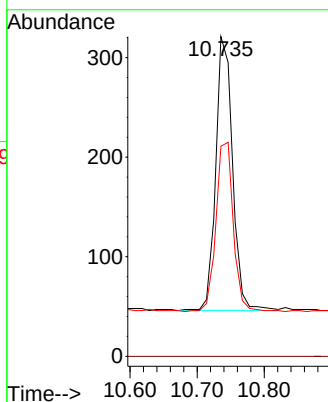
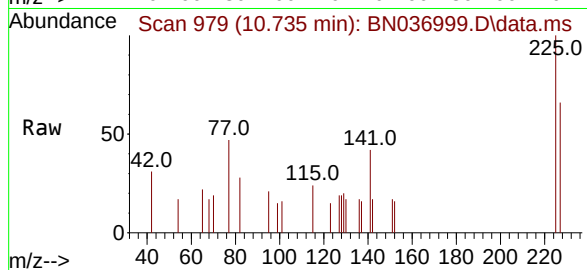
Tgt Ion:225 Resp: 480

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.0 50.9 76.3



#11

2-Methylnaphthalene-d10

Concen: 0.094 ng

RT: 12.001 min Scan# 1149

Delta R.T. 0.005 min

Lab File: BN036999.D

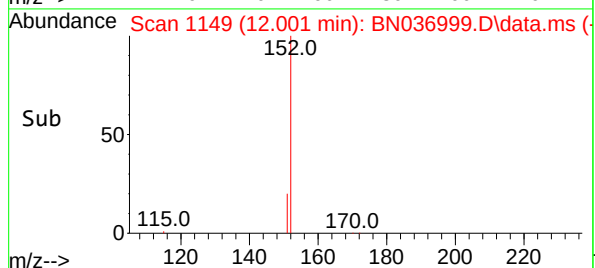
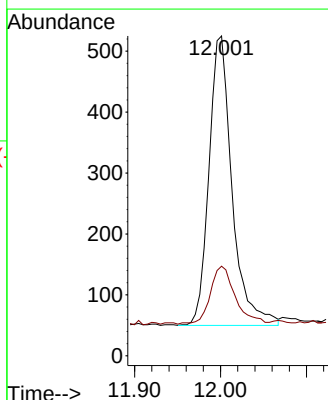
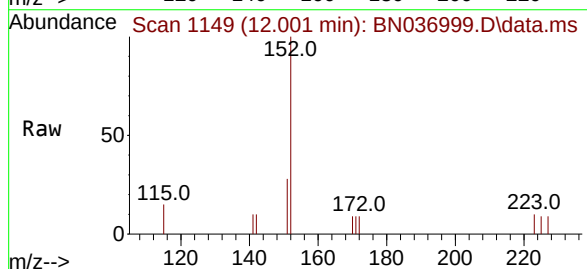
Acq: 13 May 2025 17:41

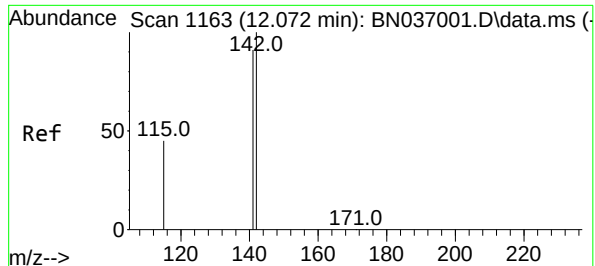
Tgt Ion:152 Resp: 888

Ion Ratio Lower Upper

152 100

151 21.6 17.5 26.3





#12

2-Methylnaphthalene

Concen: 0.099 ng

RT: 12.072 min Scan# 1163

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

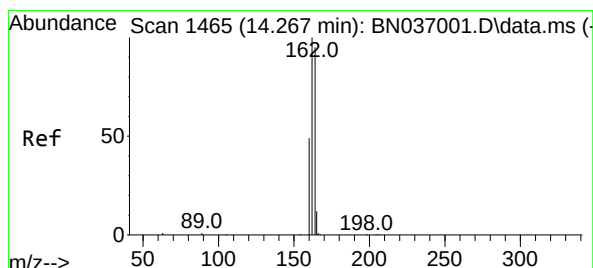
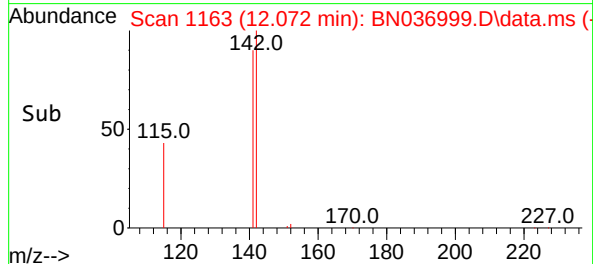
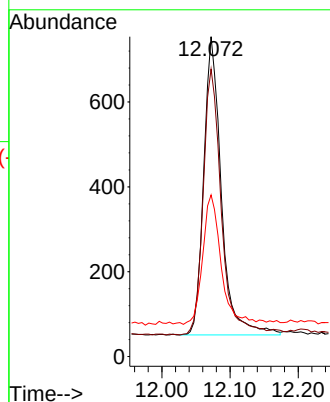
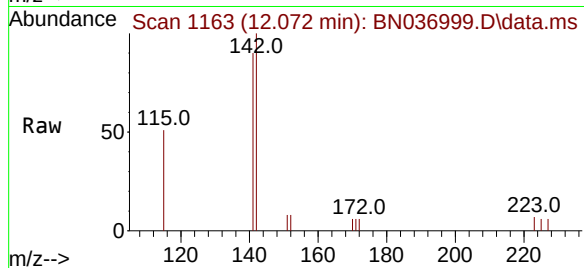
Tgt Ion:142 Resp: 1266

Ion Ratio Lower Upper

142 100

141 89.9 73.3 109.9

115 50.5 38.4 57.6



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.267 min Scan# 1465

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

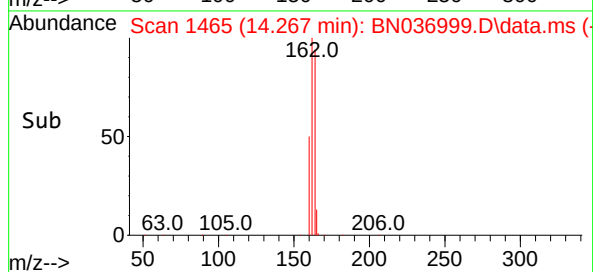
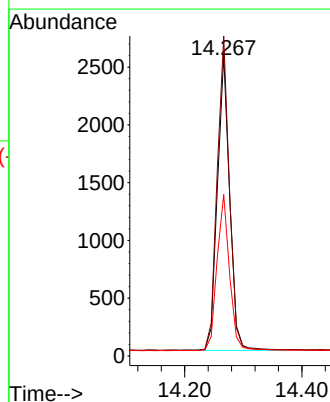
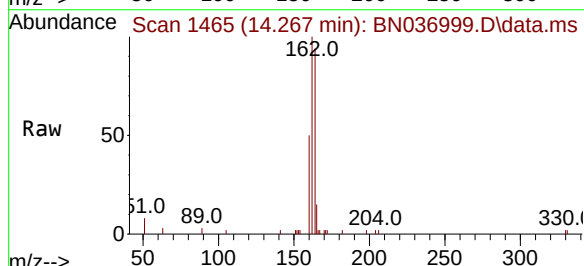
Tgt Ion:164 Resp: 3705

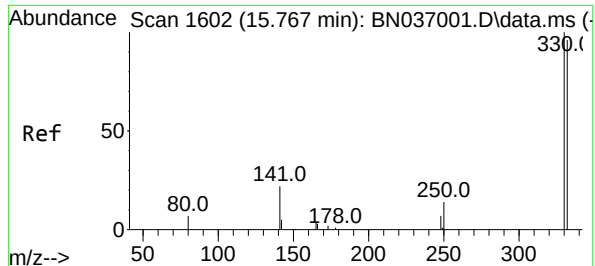
Ion Ratio Lower Upper

164 100

162 106.3 84.2 126.4

160 53.6 42.6 63.8

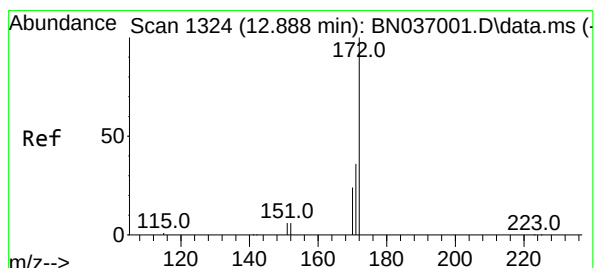
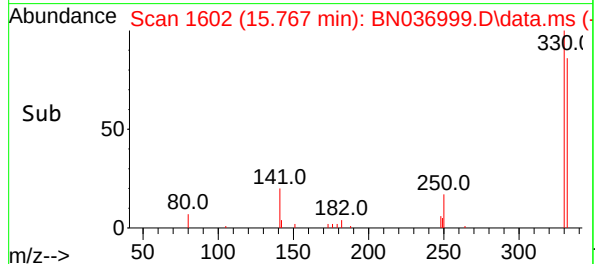
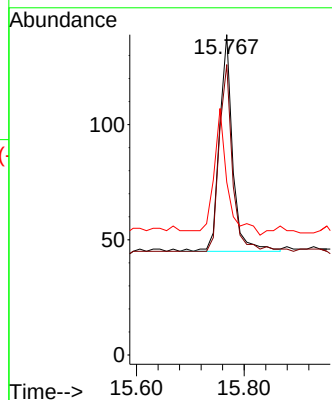
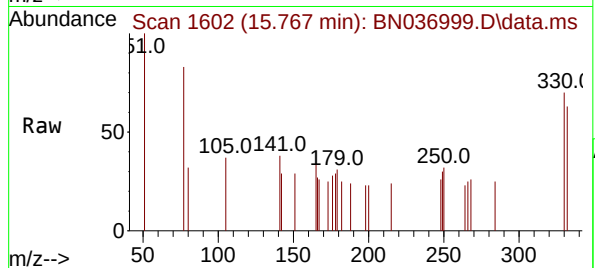




#14
2,4,6-Tribromophenol
Concen: 0.099 ng
RT: 15.767 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

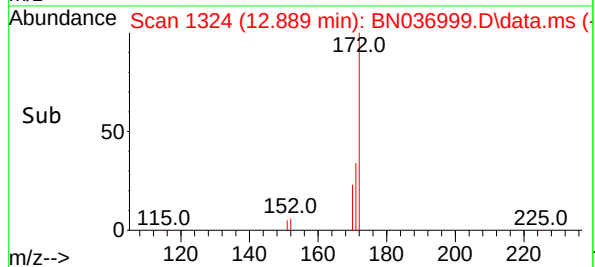
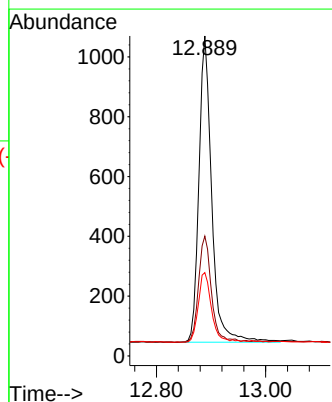
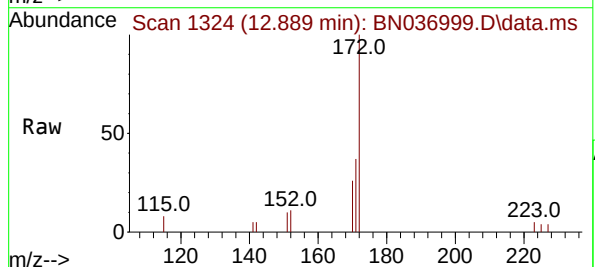
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

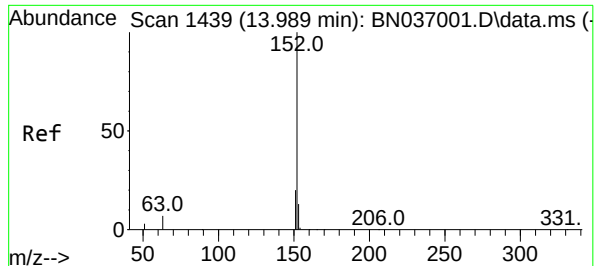
Tgt Ion:330 Resp: 161
Ion Ratio Lower Upper
330 100
332 87.0 73.8 110.8
141 60.2 43.9 65.9



#15
2-Fluorobiphenyl
Concen: 0.104 ng
RT: 12.889 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:172 Resp: 1771
Ion Ratio Lower Upper
172 100
171 37.5 29.2 43.8
170 26.1 20.5 30.7

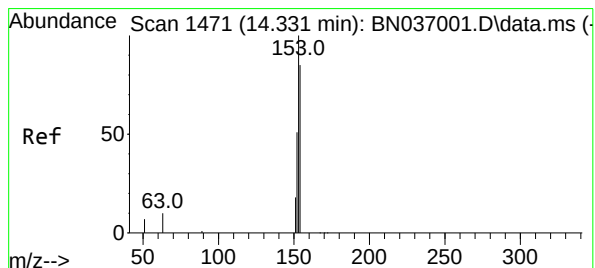
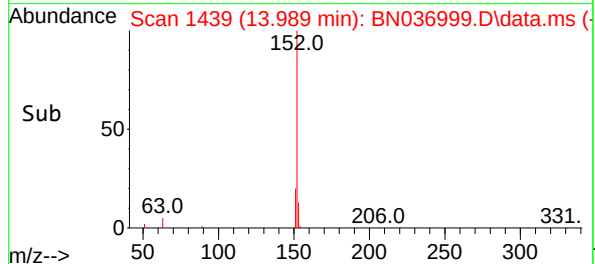
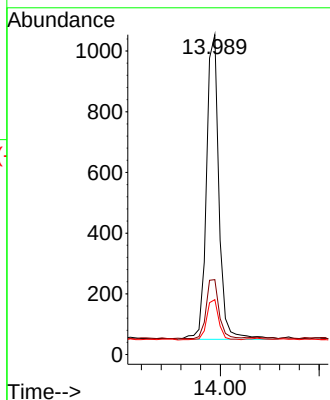
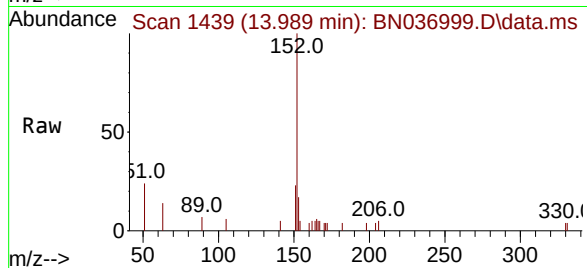




#16
Acenaphthylene
Concen: 0.098 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

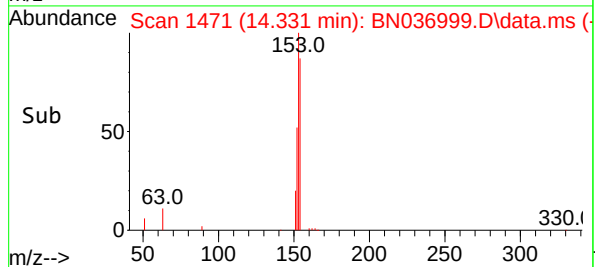
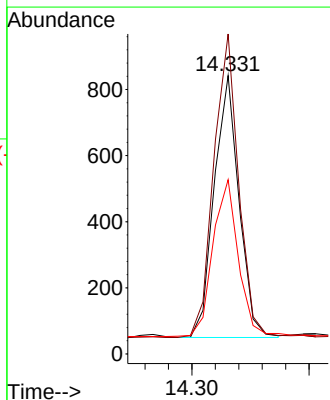
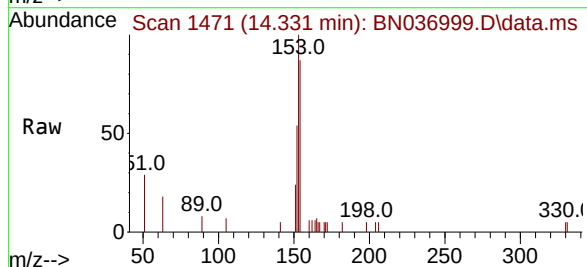
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

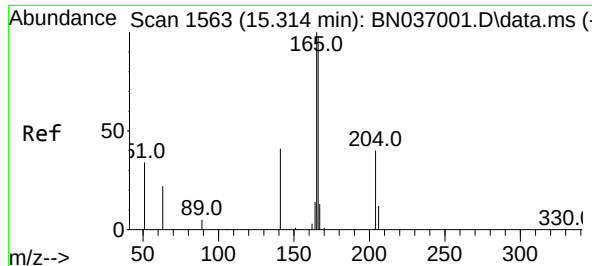
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.1	24.1
153	12.5	10.5	15.7



#17
Acenaphthene
Concen: 0.099 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.2	94.2	141.4
152	62.1	49.4	74.0

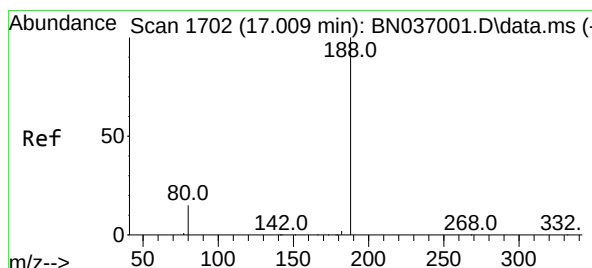
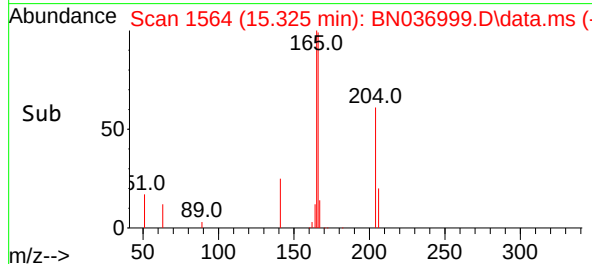
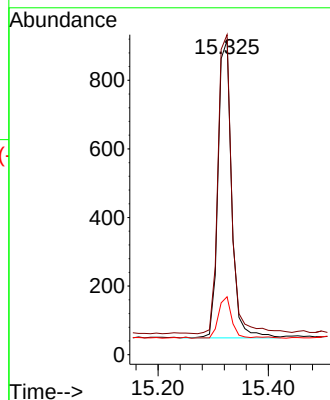
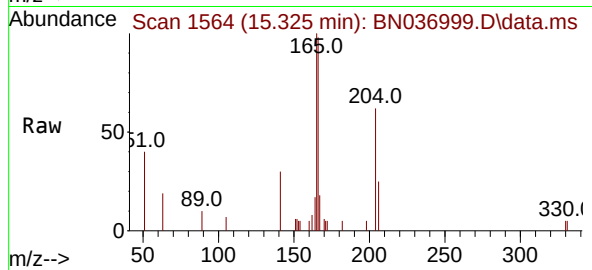




#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

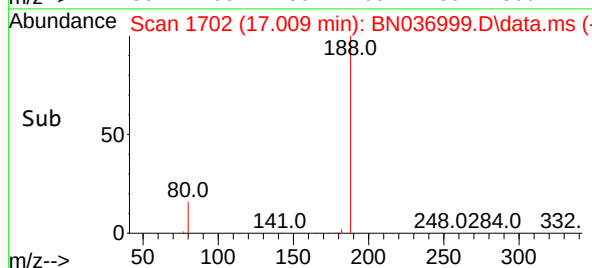
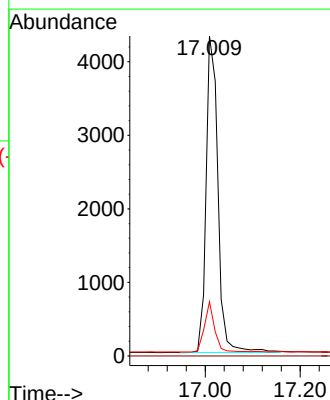
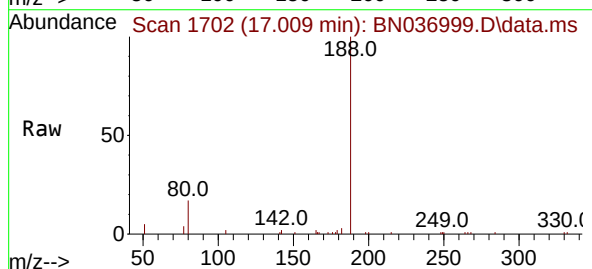
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

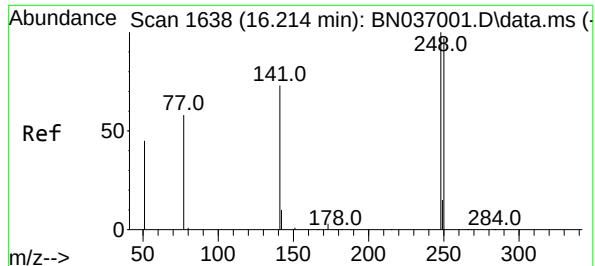
Tgt Ion:166 Resp: 1484
Ion Ratio Lower Upper
166 100
165 102.0 80.6 120.8
167 13.3 10.6 16.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:188 Resp: 7492
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.9 13.4 20.0

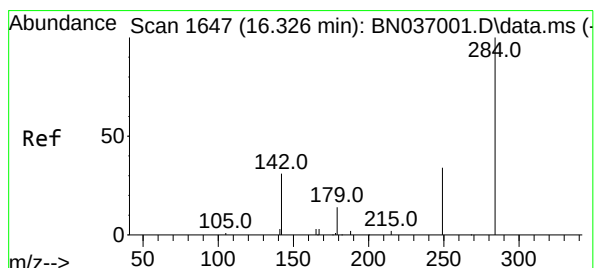
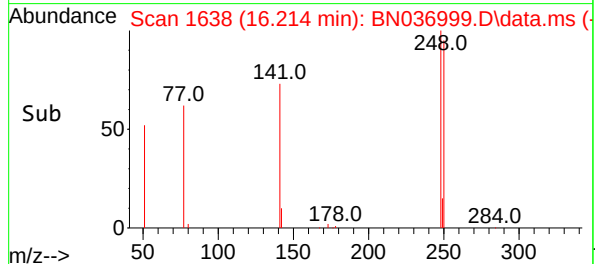
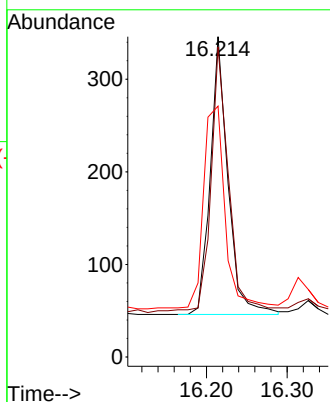
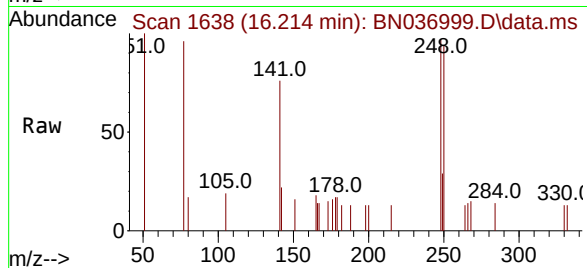




#21
4-Bromophenyl-phenylether
Concen: 0.096 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

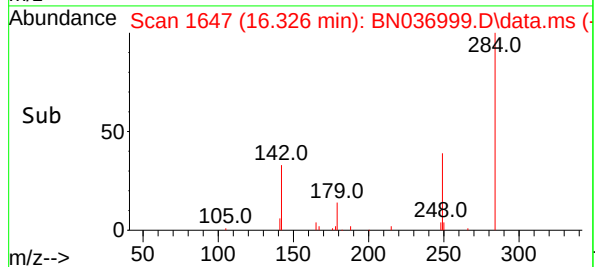
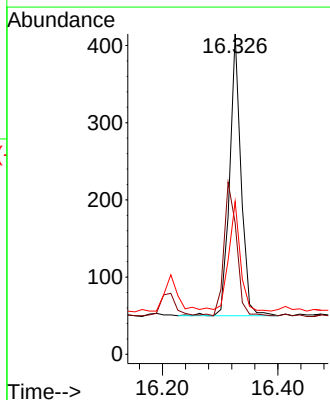
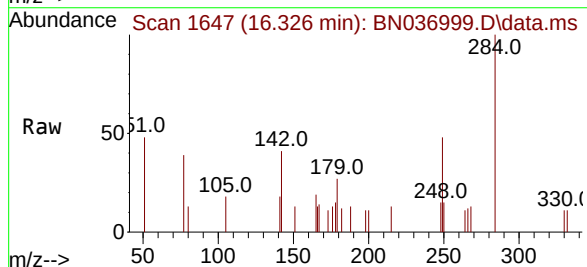
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

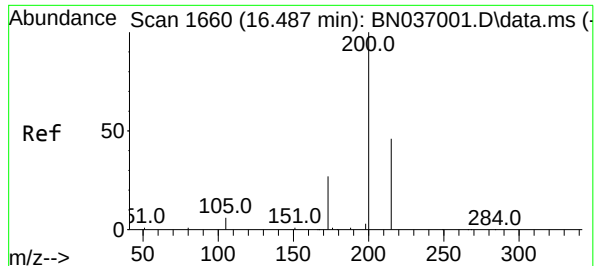
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.1	117.1
141	78.3	59.7	89.5



#22
Hexachlorobenzene
Concen: 0.099 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.2	41.2	61.8
249	40.0	28.7	43.1

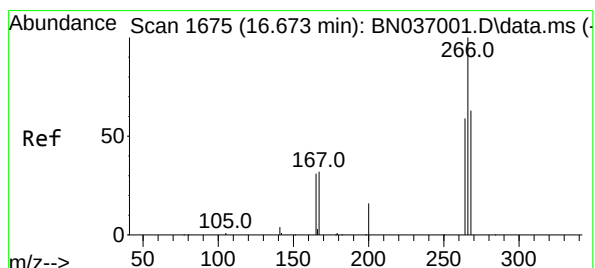
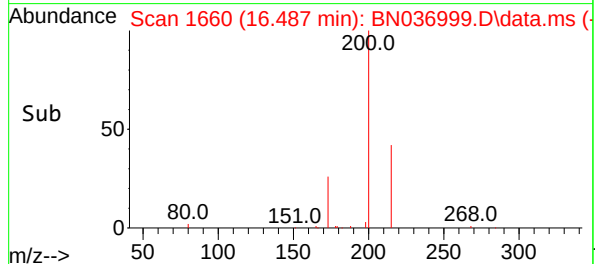
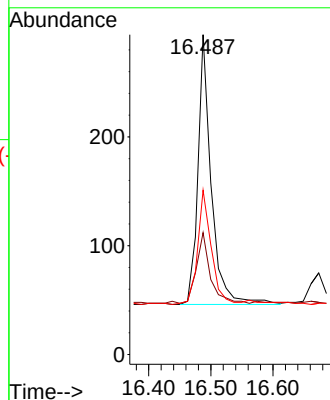
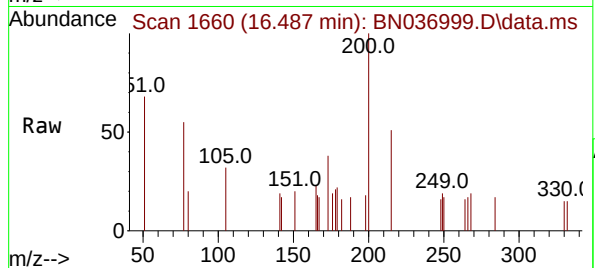




#23
Atrazine
Concen: 0.090 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

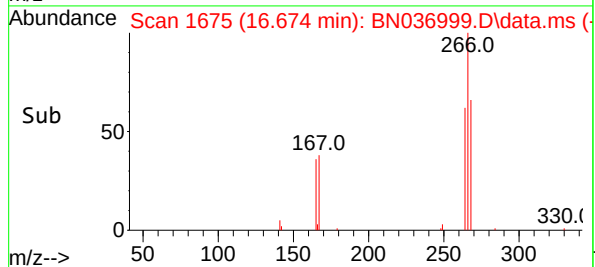
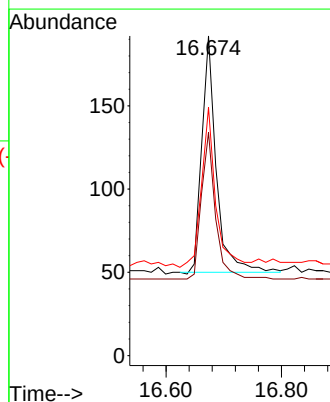
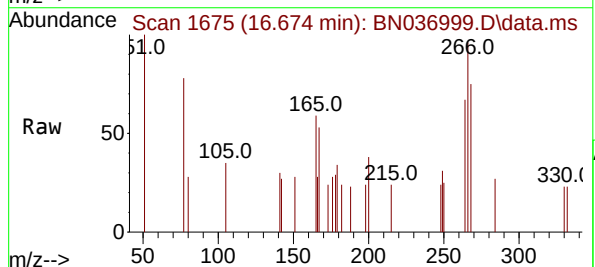
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

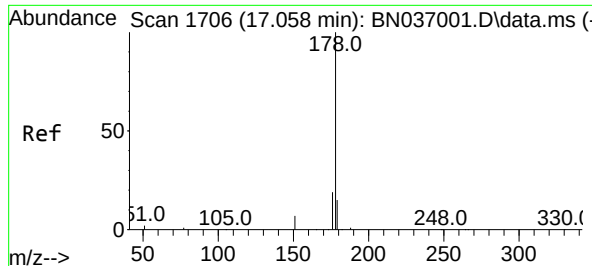
Tgt Ion:200 Resp: 372
Ion Ratio Lower Upper
200 100
173 38.1 25.2 37.8#
215 51.4 39.3 58.9



#24
Pentachlorophenol
Concen: 0.088 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:266 Resp: 249
Ion Ratio Lower Upper
266 100
264 59.8 47.9 71.9
268 66.7 50.0 75.0





#25

Phenanthrene

Concen: 0.096 ng

RT: 17.058 min Scan# 1706

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

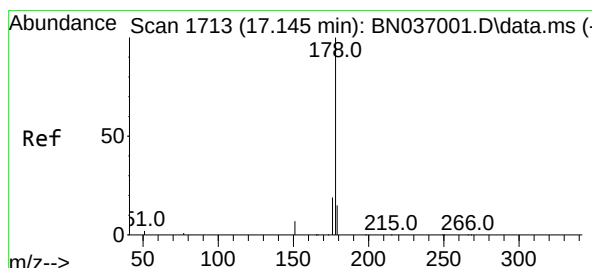
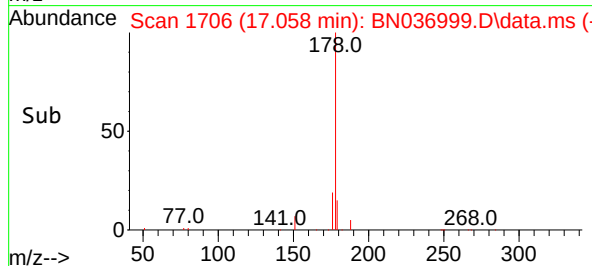
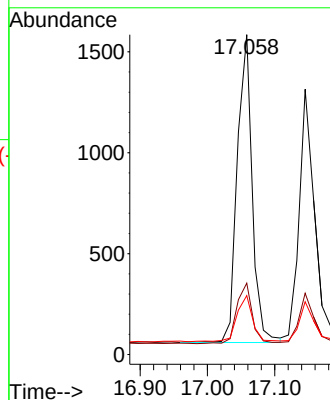
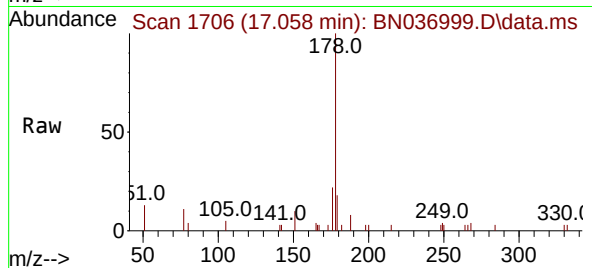
Tgt Ion:178 Resp: 2359

Ion Ratio Lower Upper

178 100

176 20.3 15.7 23.5

179 15.7 12.2 18.2



#26

Anthracene

Concen: 0.092 ng

RT: 17.145 min Scan# 1713

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

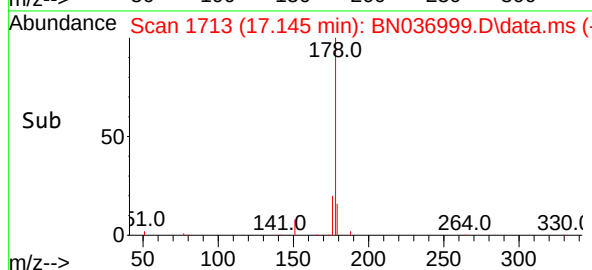
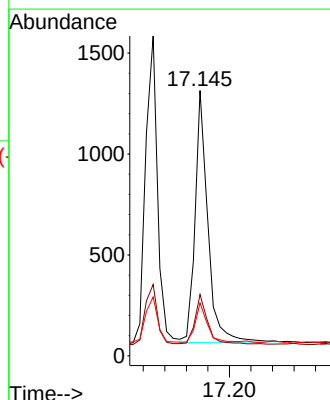
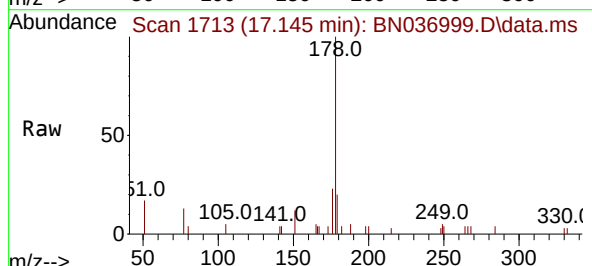
Tgt Ion:178 Resp: 2059

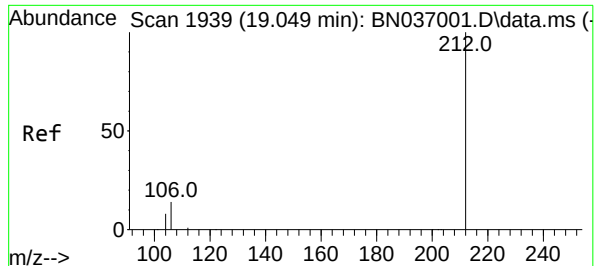
Ion Ratio Lower Upper

178 100

176 19.9 15.0 22.6

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.094 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

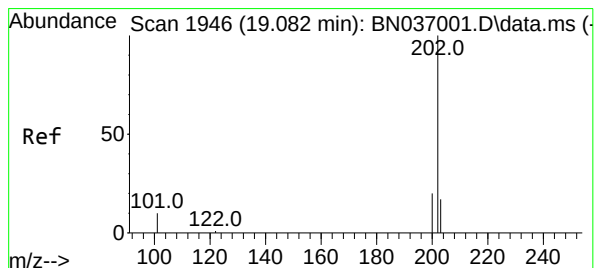
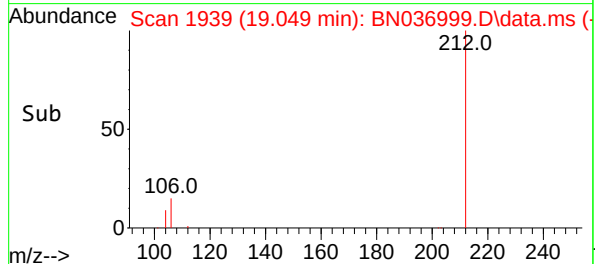
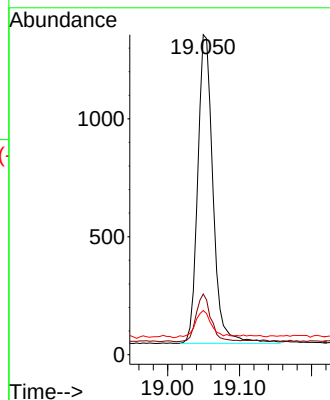
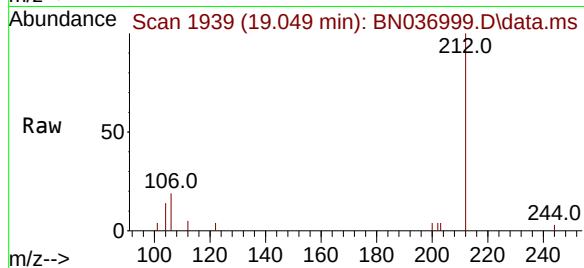
Tgt Ion:212 Resp: 1934

Ion Ratio Lower Upper

212 100

106 15.0 11.3 16.9

104 9.6 6.7 10.1



#28

Fluoranthene

Concen: 0.094 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

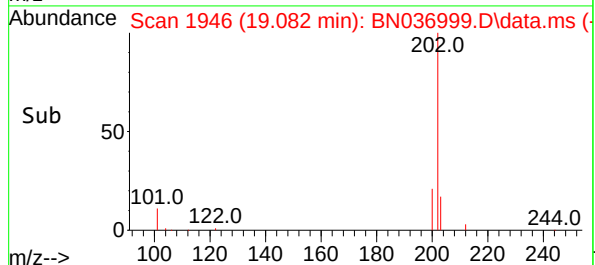
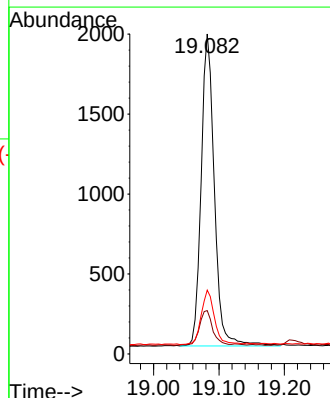
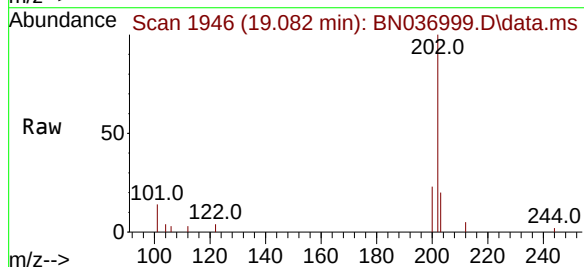
Tgt Ion:202 Resp: 2737

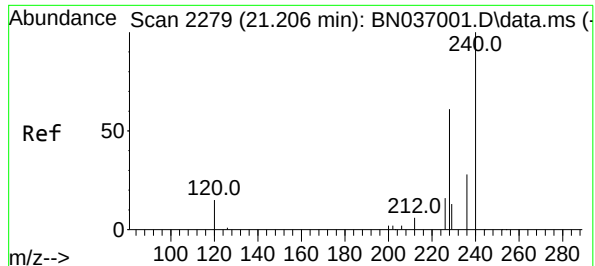
Ion Ratio Lower Upper

202 100

101 11.4 8.9 13.3

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

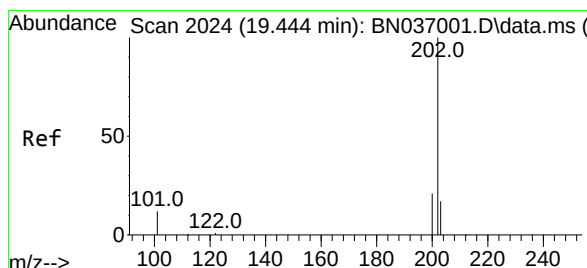
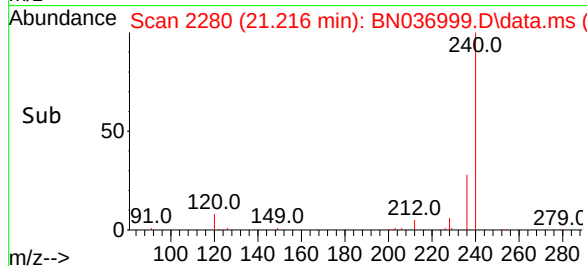
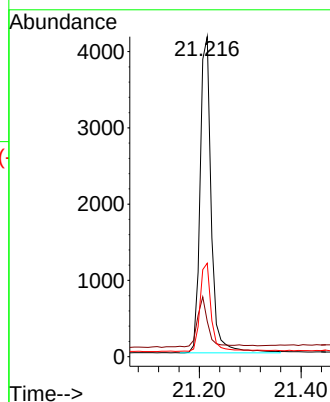
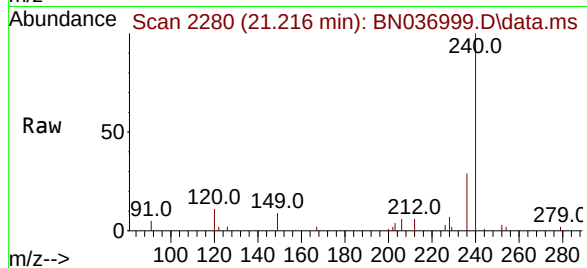
Tgt Ion:240 Resp: 6297

Ion Ratio Lower Upper

240 100

120 11.0 15.1 22.7#

236 29.2 24.0 36.0



#30

Pyrene

Concen: 0.102 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

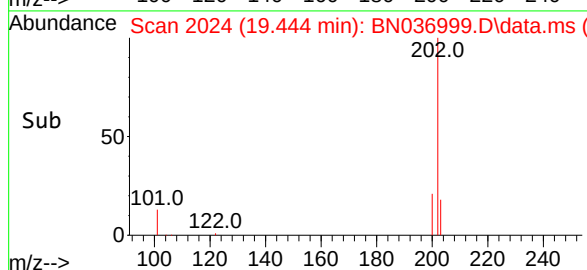
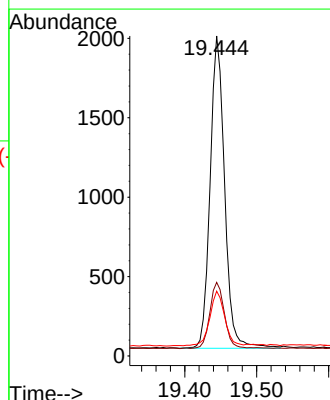
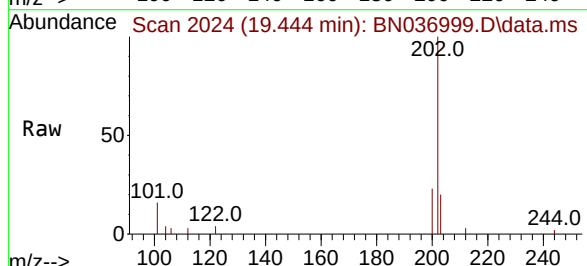
Tgt Ion:202 Resp: 2745

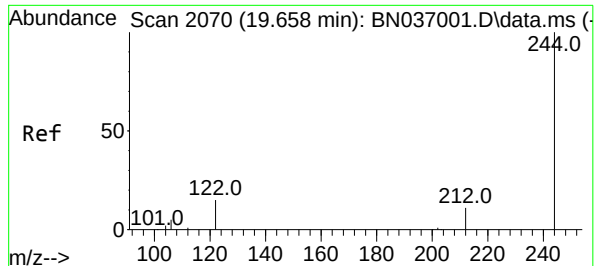
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

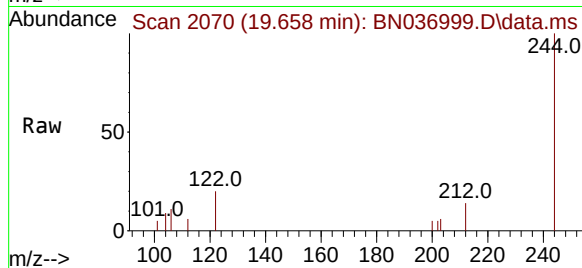
203 18.1 14.2 21.4



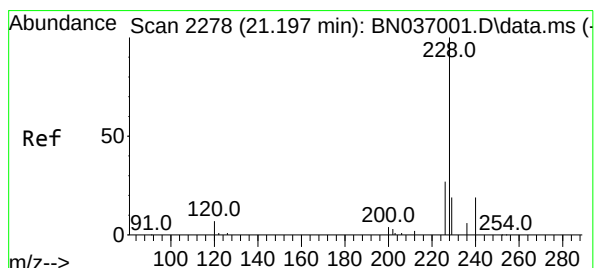
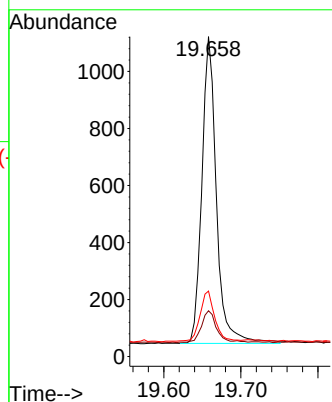
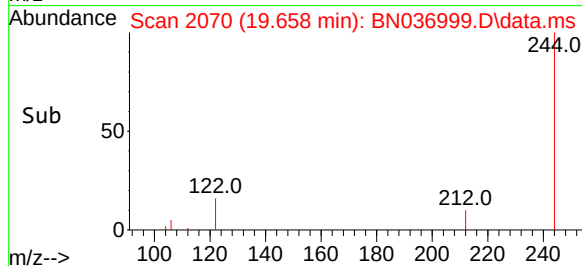


#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

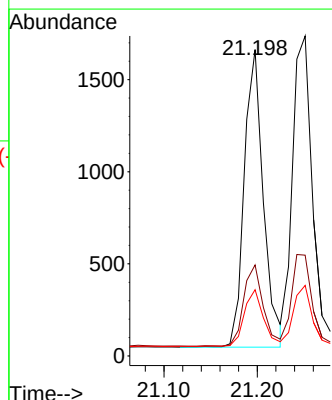
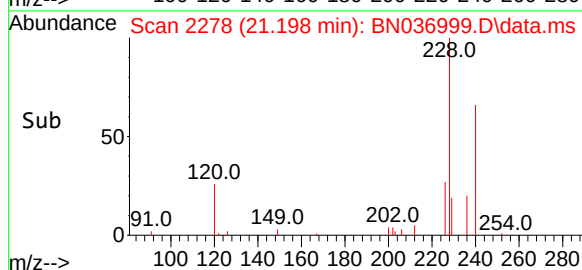
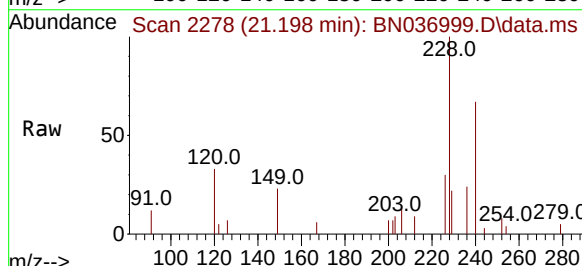


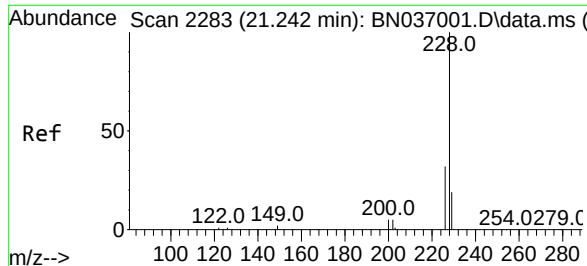
Tgt Ion:244 Resp: 1412
Ion Ratio Lower Upper
244 100
212 14.3 9.7 14.5
122 20.5 13.4 20.0#



#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:228 Resp: 2303
Ion Ratio Lower Upper
228 100
226 29.7 22.2 33.4
229 21.6 16.0 24.0





#33

Chrysene

Concen: 0.104 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

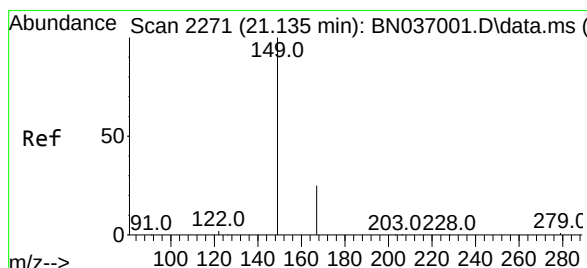
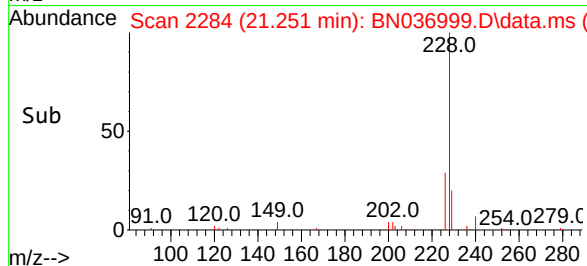
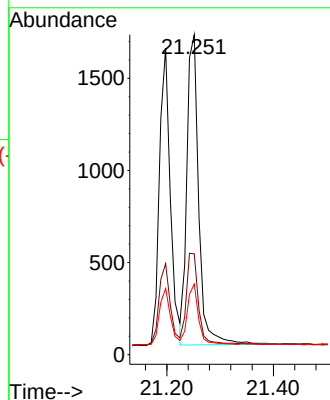
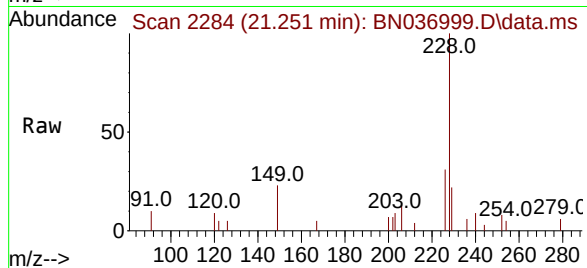
Tgt Ion:228 Resp: 2605

Ion Ratio Lower Upper

228 100

226 31.5 26.3 39.5

229 22.0 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.103 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

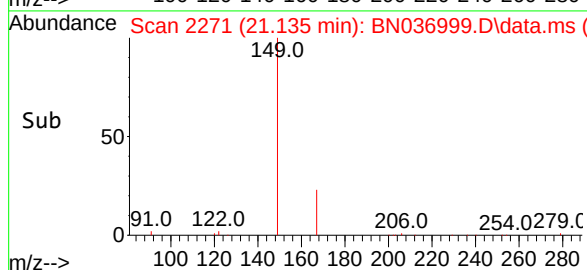
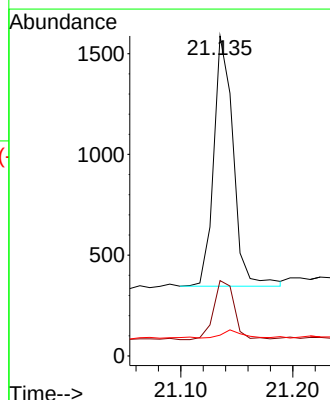
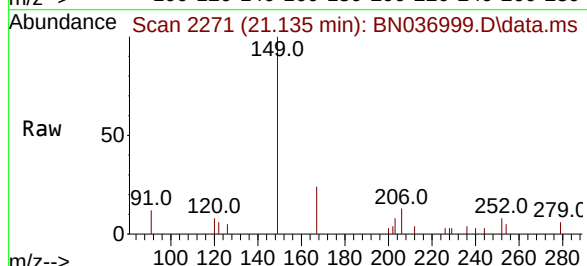
Tgt Ion:149 Resp: 1504

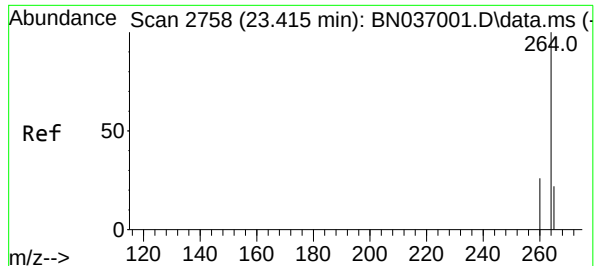
Ion Ratio Lower Upper

149 100

167 25.1 20.6 30.8

279 3.1 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

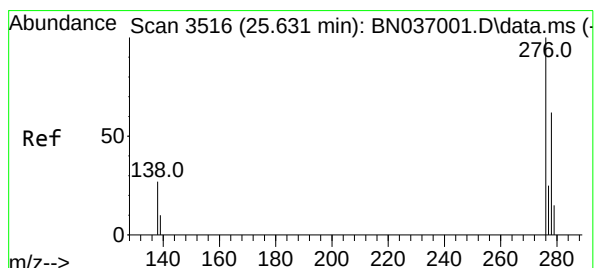
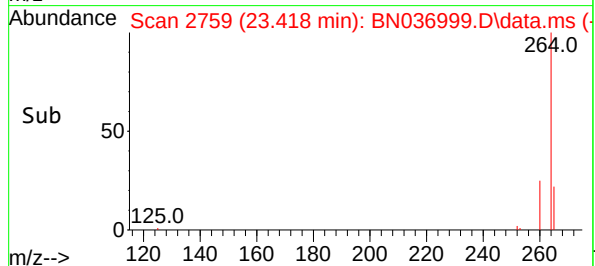
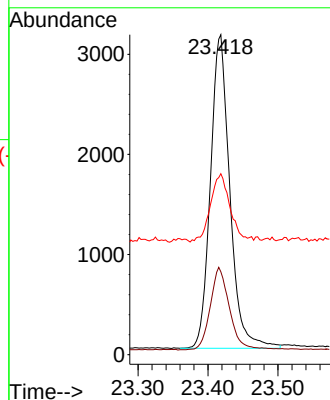
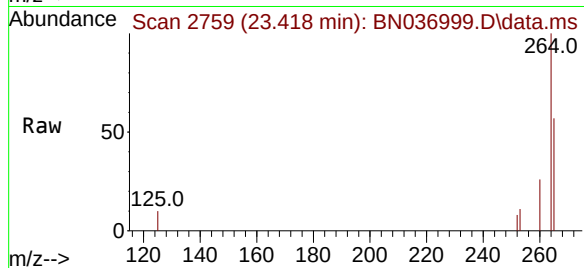
Tgt Ion:264 Resp: 6037

Ion Ratio Lower Upper

264 100

260 25.9 21.9 32.9

265 56.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.092 ng

RT: 25.629 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

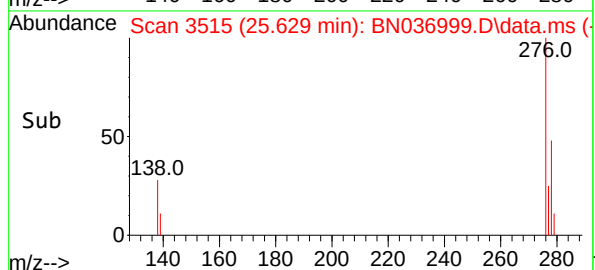
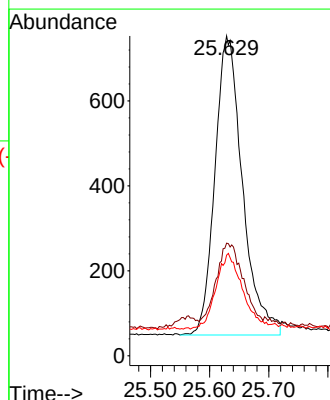
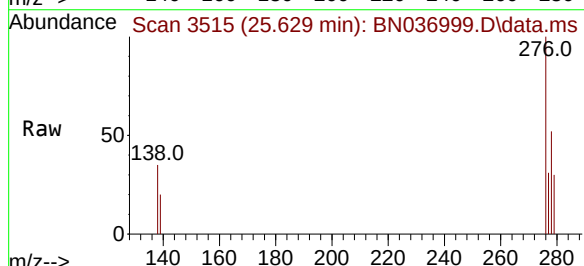
Tgt Ion:276 Resp: 2280

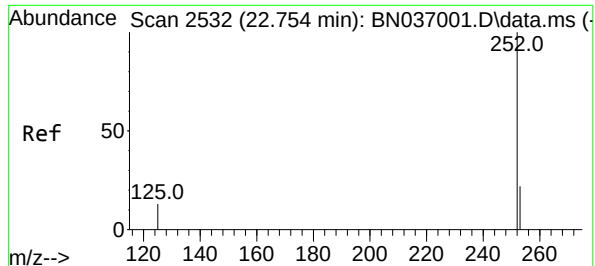
Ion Ratio Lower Upper

276 100

138 25.8 22.7 34.1

277 24.3 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.098 ng

RT: 22.758 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

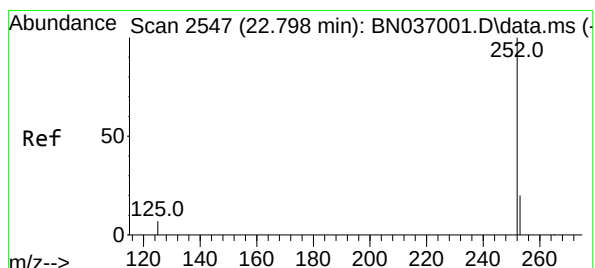
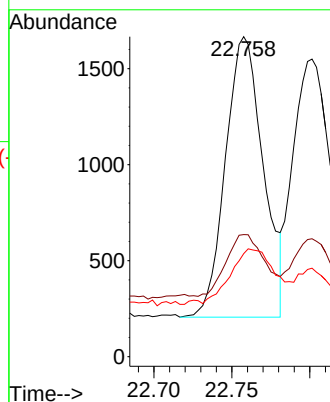
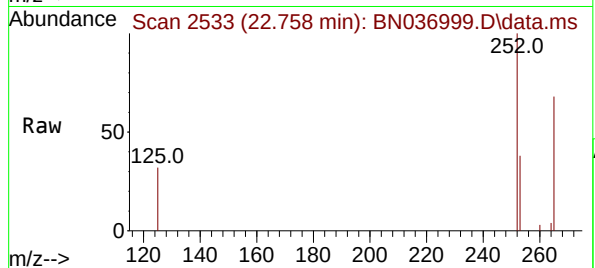
Tgt Ion:252 Resp: 2461

Ion Ratio Lower Upper

252 100

253 38.2 21.8 32.6#

125 32.2 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 22.801 min Scan# 2548

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

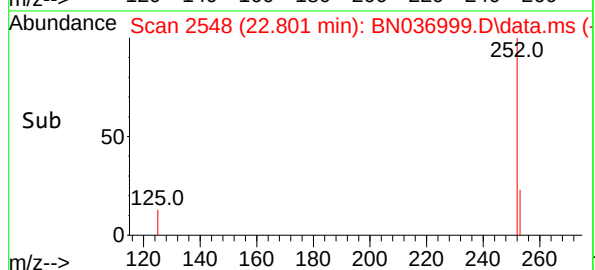
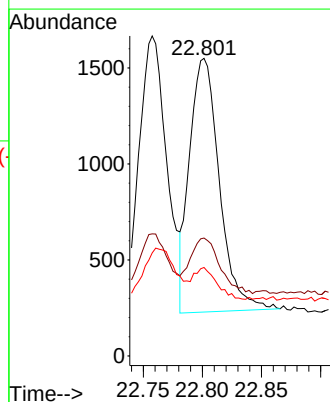
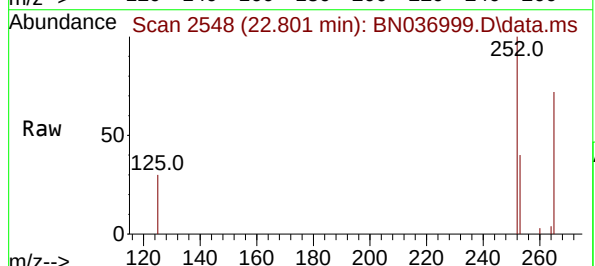
Tgt Ion:252 Resp: 2322

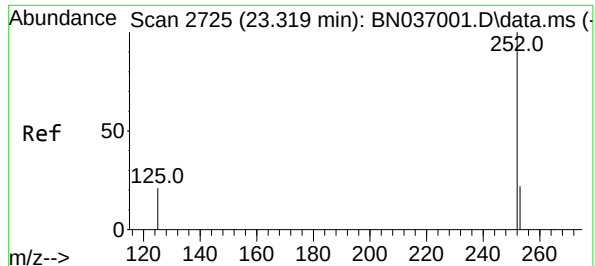
Ion Ratio Lower Upper

252 100

253 39.6 21.4 32.2#

125 29.7 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.098 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

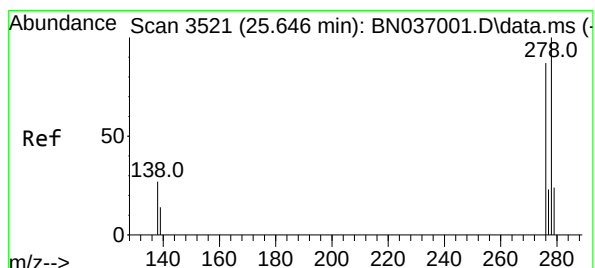
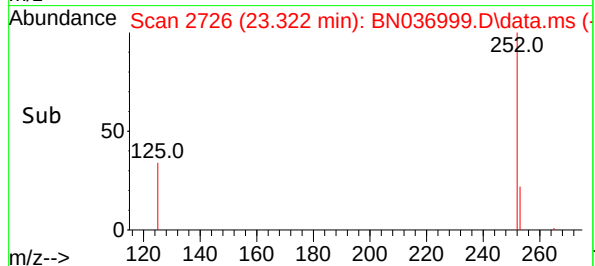
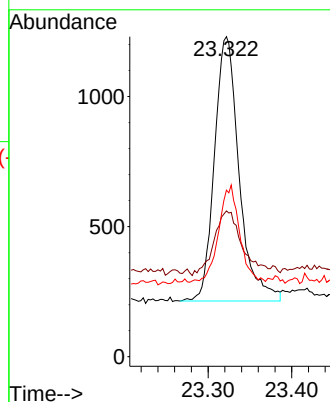
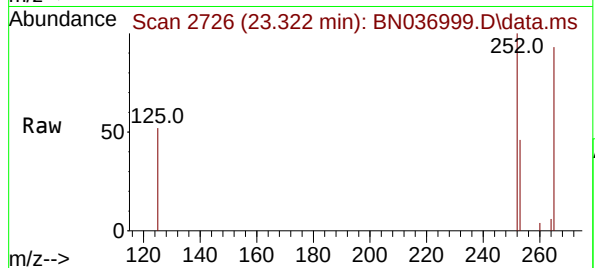
Tgt Ion:252 Resp: 2083

Ion Ratio Lower Upper

252 100

253 45.5 23.8 35.6#

125 52.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.088 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

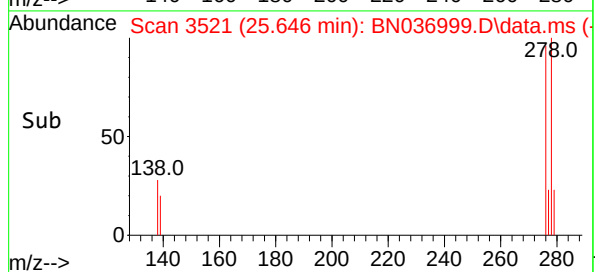
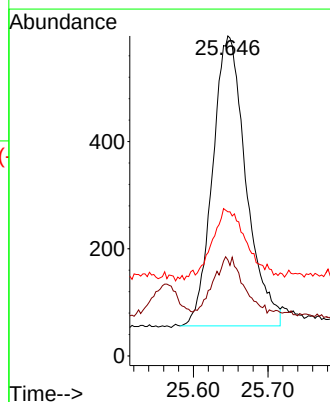
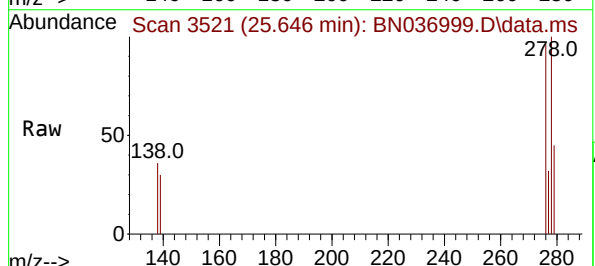
Tgt Ion:278 Resp: 1685

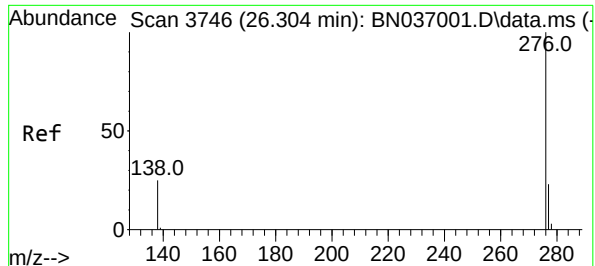
Ion Ratio Lower Upper

278 100

139 30.0 17.4 26.0#

279 45.1 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036999.D

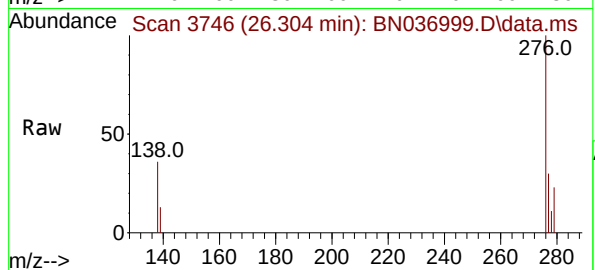
Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



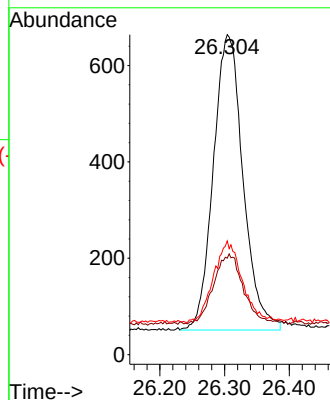
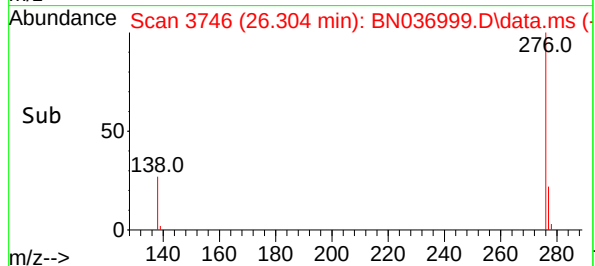
Tgt Ion:276 Resp: 1960

Ion Ratio Lower Upper

276 100

277 30.1 20.2 30.4

138 35.5 22.0 33.0#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037000.D
 Acq On : 13 May 2025 18:17
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 11:00:10 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed May 14 10:57:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2140	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5637	0.400	ng	0.00
13) Acenaphthene-d10	14.266	164	3174	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	6255	0.400	ng	0.00
29) Chrysene-d12	21.206	240	5420	0.400	ng	0.00
35) Perylene-d12	23.415	264	5487	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1178	0.210	ng	0.00
5) Phenol-d6	6.795	99	1395	0.199	ng	0.00
8) Nitrobenzene-d5	8.771	82	1080	0.176	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	1543	0.194	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	267	0.192	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	2858	0.197	ng	0.00
27) Fluoranthene-d10	19.049	212	3232	0.188	ng	0.00
31) Terphenyl-d14	19.658	244	2287	0.197	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	546	0.208	ng	97
3) n-Nitrosodimethylamine	3.458	42	1042	0.185	ng	# 95
6) bis(2-Chloroethyl)ether	7.048	93	1244	0.193	ng	99
9) Naphthalene	10.447	128	3213	0.193	ng	99
10) Hexachlorobutadiene	10.746	225	698	0.200	ng	# 99
12) 2-Methylnaphthalene	12.072	142	2041	0.191	ng	99
16) Acenaphthylene	13.978	152	2917	0.189	ng	99
17) Acenaphthene	14.331	154	1950	0.193	ng	99
18) Fluorene	15.325	166	2509	0.189	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	187	0.167	ng	# 48
21) 4-Bromophenyl-phenylether	16.214	248	770	0.195	ng	99
22) Hexachlorobenzene	16.326	284	840	0.199	ng	98
23) Atrazine	16.487	200	647	0.188	ng	98
24) Pentachlorophenol	16.673	266	419	0.178	ng	98
25) Phenanthrene	17.058	178	3977	0.195	ng	100
26) Anthracene	17.145	178	3452	0.186	ng	99
28) Fluoranthene	19.082	202	4499	0.184	ng	99
30) Pyrene	19.444	202	4629	0.200	ng	100
32) Benzo(a)anthracene	21.197	228	3882	0.190	ng	98
33) Chrysene	21.251	228	4226	0.196	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	2490	0.198	ng	99
36) Indeno(1,2,3-cd)pyrene	25.628	276	4426	0.198	ng	99
37) Benzo(b)fluoranthene	22.757	252	4306m	0.189	ng	
38) Benzo(k)fluoranthene	22.798	252	4219	0.188	ng	# 91
39) Benzo(a)pyrene	23.322	252	3685	0.191	ng	# 88
40) Dibenzo(a,h)anthracene	25.646	278	3380	0.194	ng	94
41) Benzo(g,h,i)perylene	26.301	276	3861	0.204	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037000.D
Acq On : 13 May 2025 18:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025

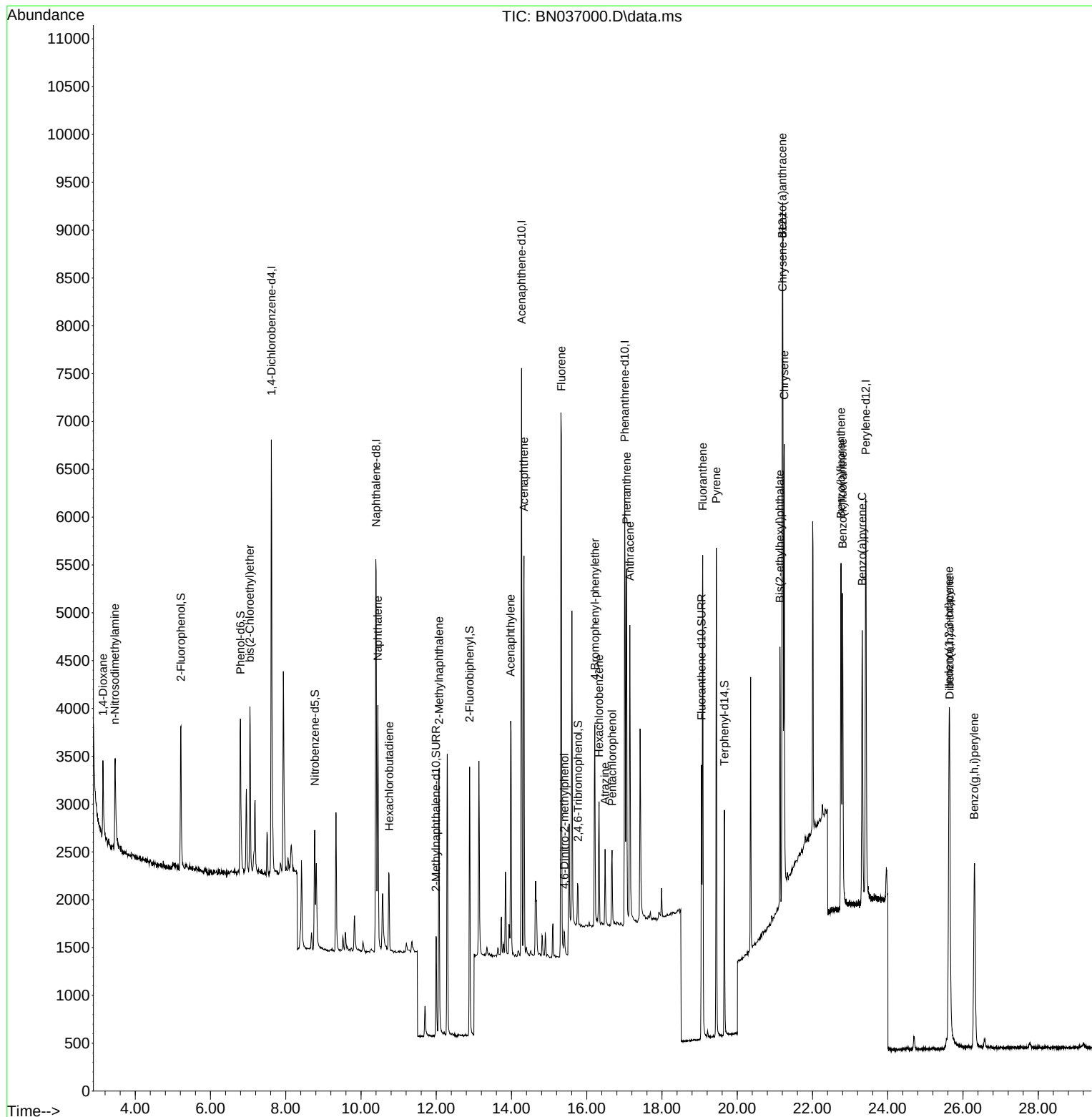
Quant Time: May 14 11:00:10 2025

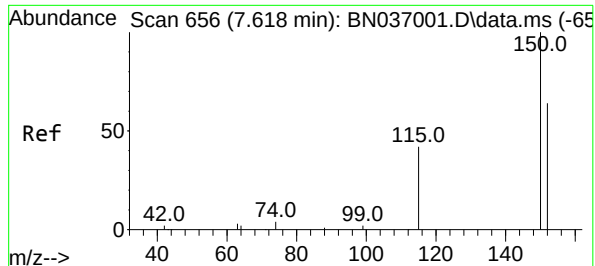
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed May 14 10:57:36 2025

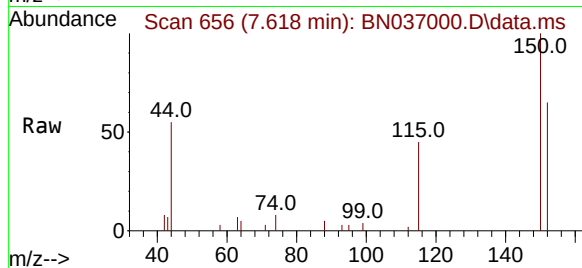
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 656
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

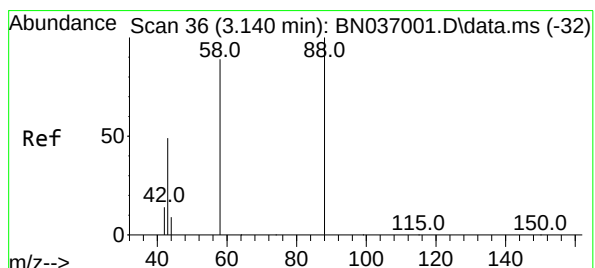
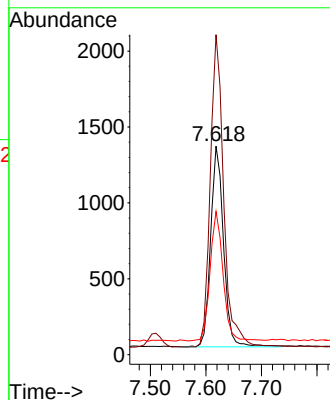
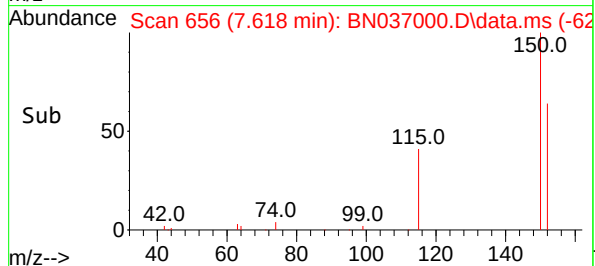
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 2140
Ion Ratio Lower Upper
152 100
150 153.5 123.9 185.9
115 68.7 55.8 83.8

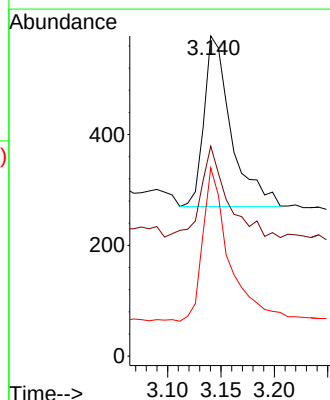
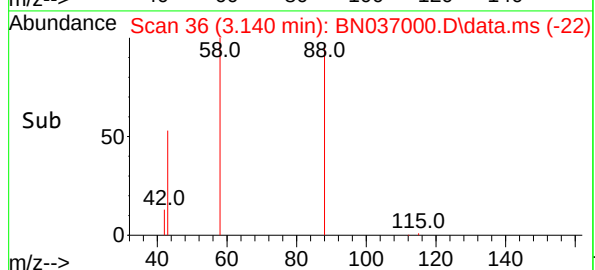
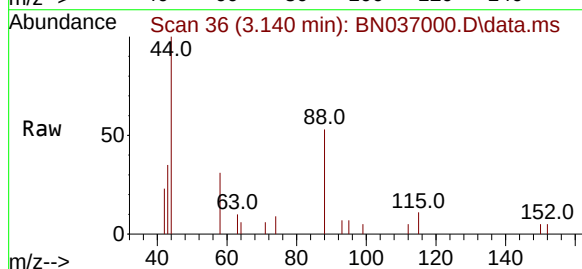
Manual Integrations
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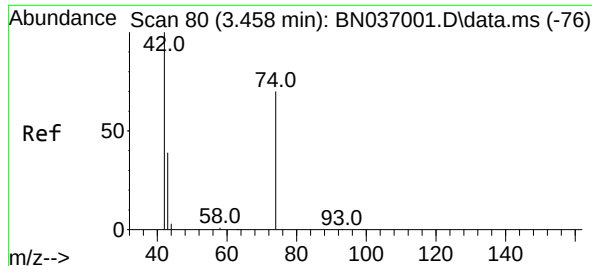
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#2
1,4-Dioxane
Concen: 0.208 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

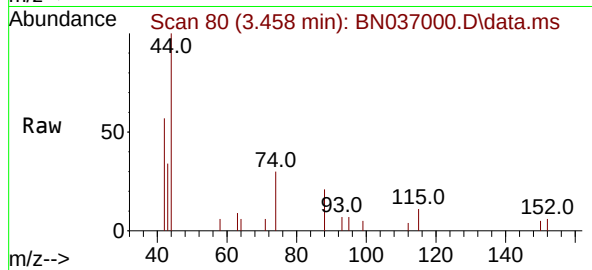
Tgt Ion: 88 Resp: 546
Ion Ratio Lower Upper
88 100
43 52.4 37.4 56.0
58 85.7 68.8 103.2





#3
n-Nitrosodimethylamine
Concen: 0.185 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

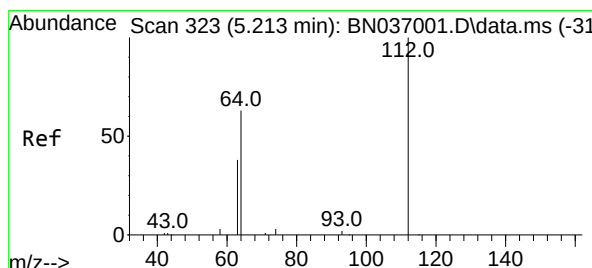
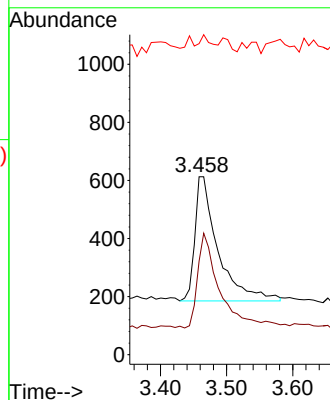
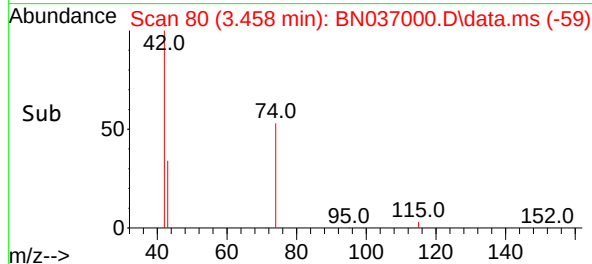
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 104
Ion Ratio Lower Upper
42 100
74 72.6 59.8 89.6
44 7.5 11.9 17.9

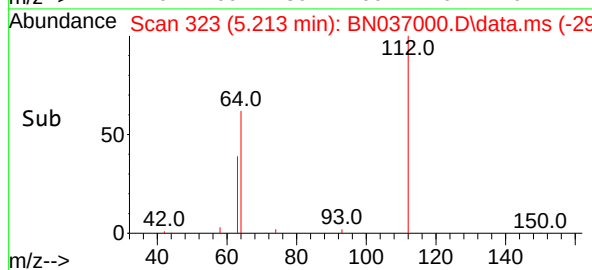
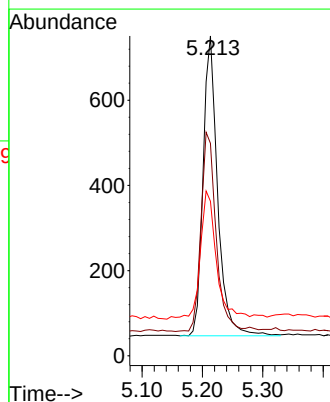
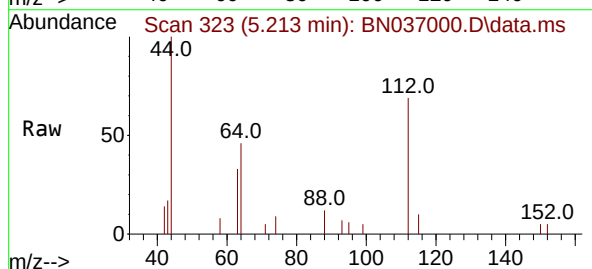
Manual Integrations
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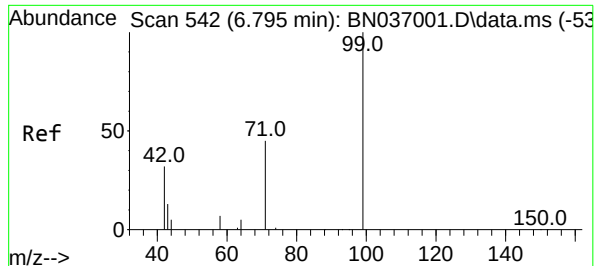
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#4
2-Fluorophenol
Concen: 0.210 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:112 Resp: 1178
Ion Ratio Lower Upper
112 100
64 68.7 55.7 83.5
63 47.2 34.6 51.8





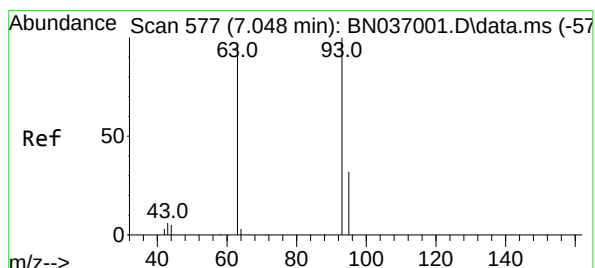
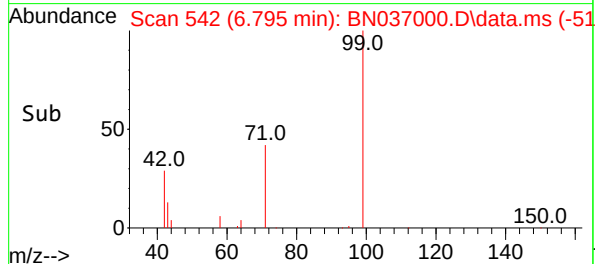
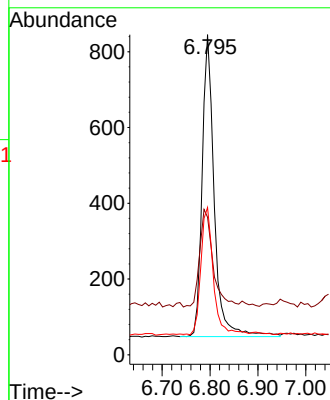
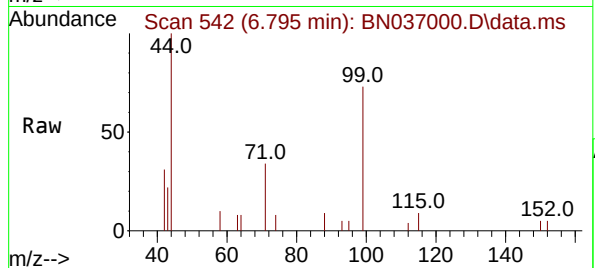
#5
Phenol-d6
Concen: 0.199 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 139
Ion Ratio Lower Upper
99 100
42 34.2 29.3 43.9
71 42.7 35.7 53.5

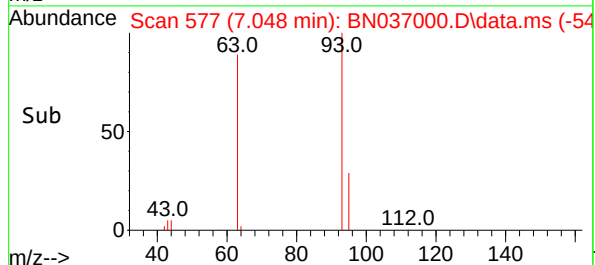
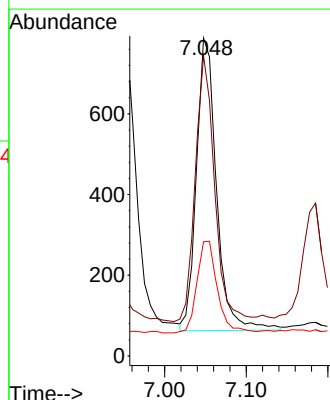
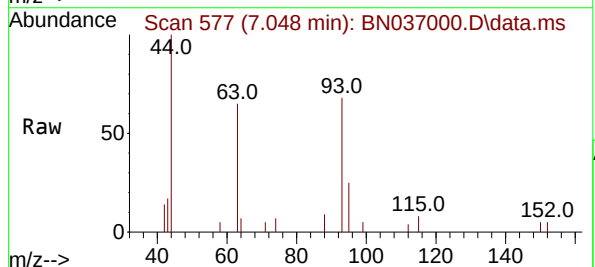
Manual Integrations
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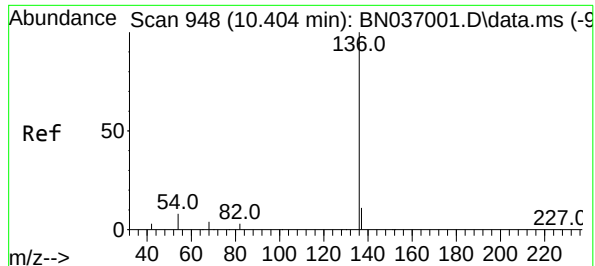
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.048 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 93 Resp: 1244
Ion Ratio Lower Upper
93 100
63 86.9 70.1 105.1
95 31.8 26.2 39.2





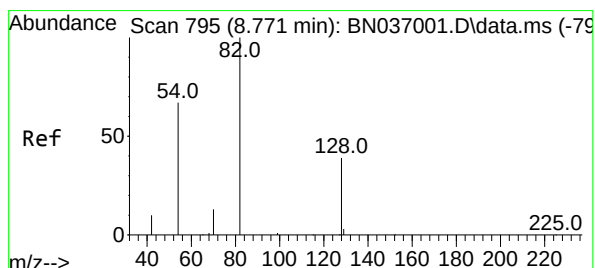
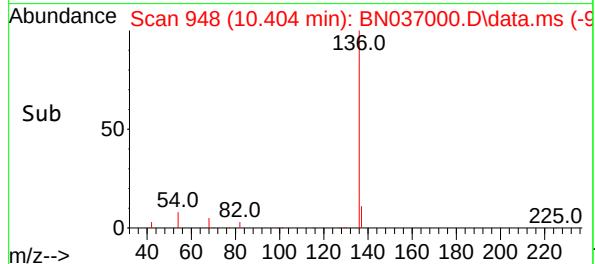
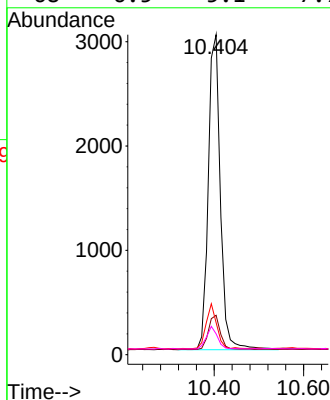
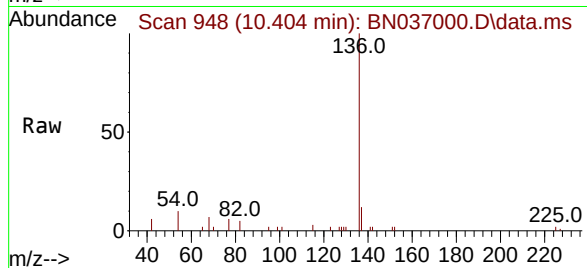
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.4	15.6
54	10.0	8.5	12.7
68	6.5	5.1	7.7

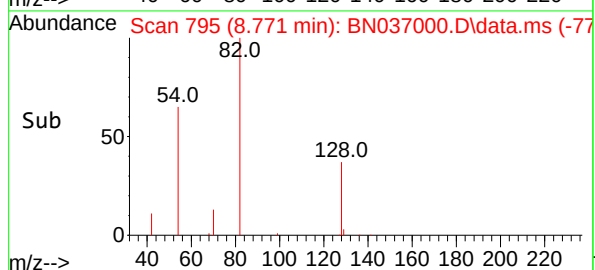
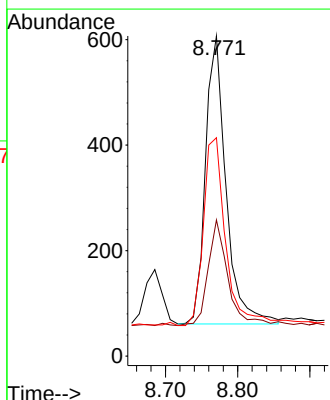
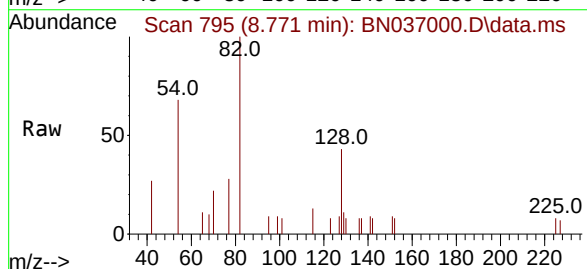
Manual Integrations
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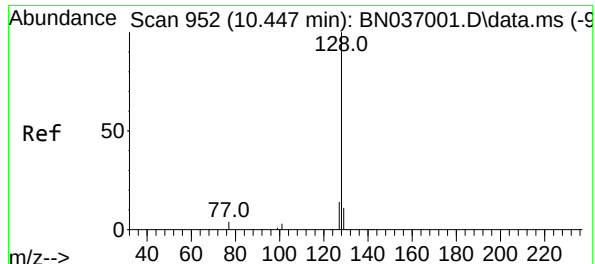
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.2	55.0	82.4





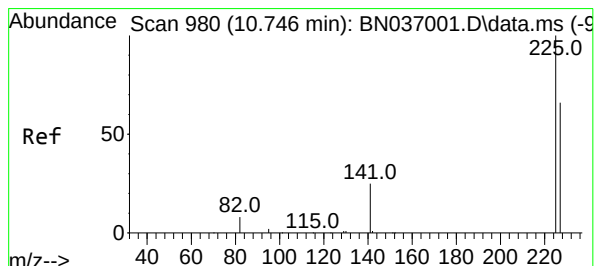
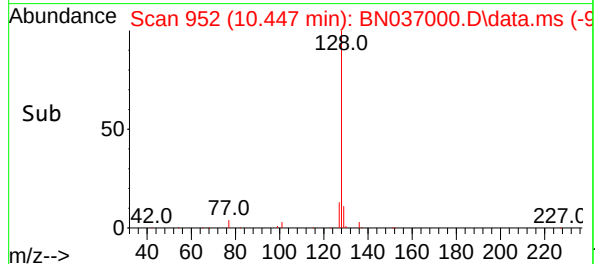
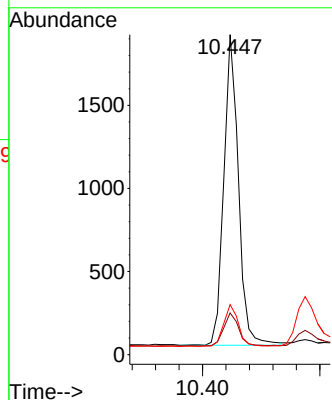
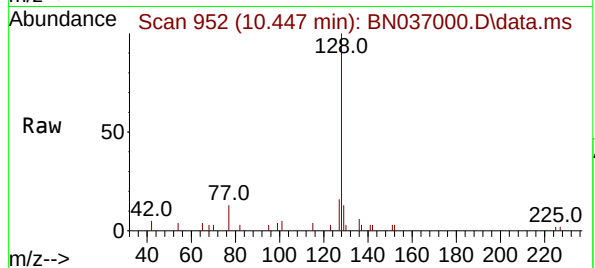
#9
Naphthalene
Concen: 0.193 ng
RT: 10.447 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 321
Ion Ratio Lower Upper
128 100
129 13.0 9.7 14.5
127 15.6 12.4 18.6

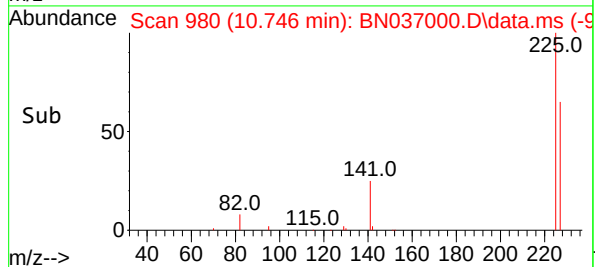
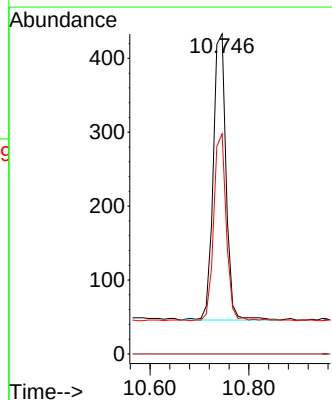
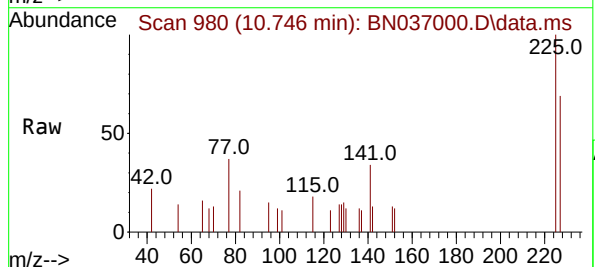
Manual Integrations
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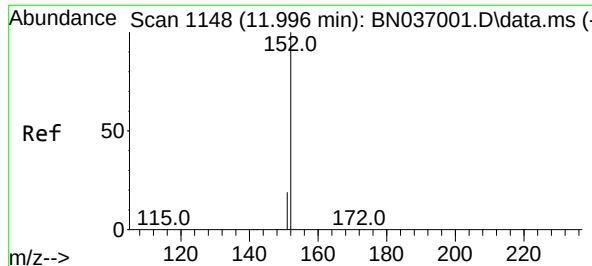
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

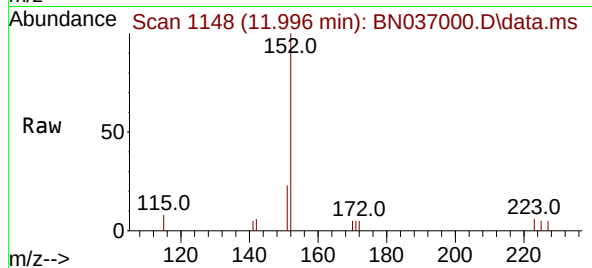
Tgt Ion:225 Resp: 698
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.996 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

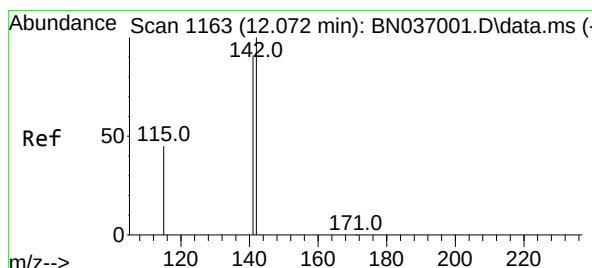
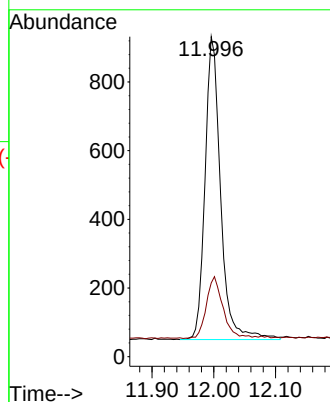
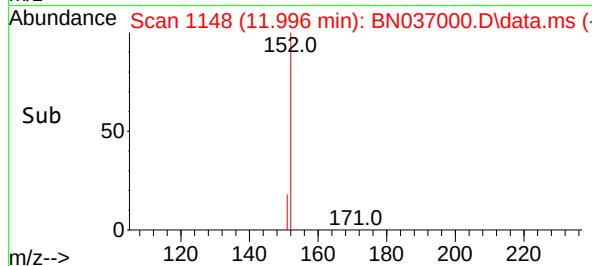
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 154
Ion Ratio Lower Upper
152 100
151 22.0 17.5 26.3

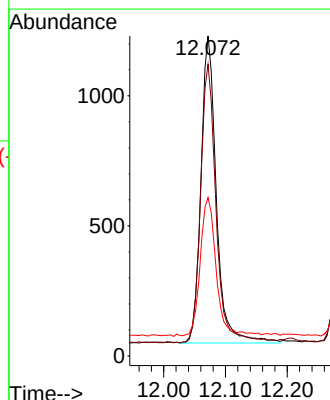
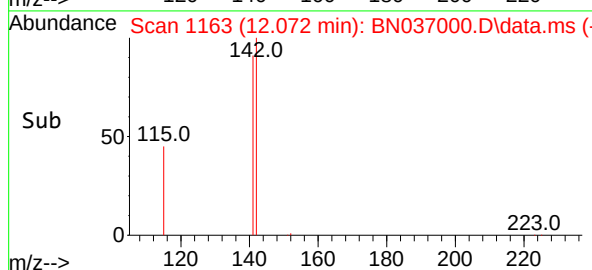
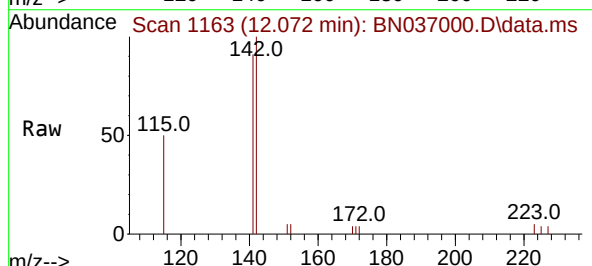
Manual Integrations
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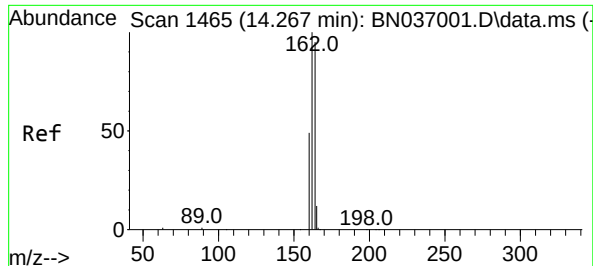
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

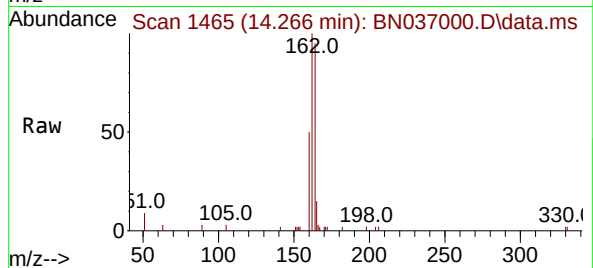
Tgt Ion:142 Resp: 2041
Ion Ratio Lower Upper
142 100
141 91.1 73.3 109.9
115 49.5 38.4 57.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

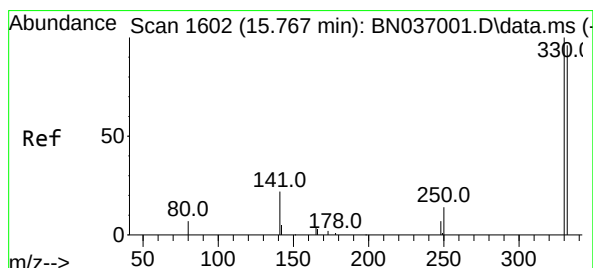
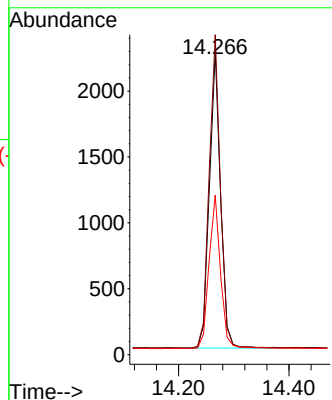
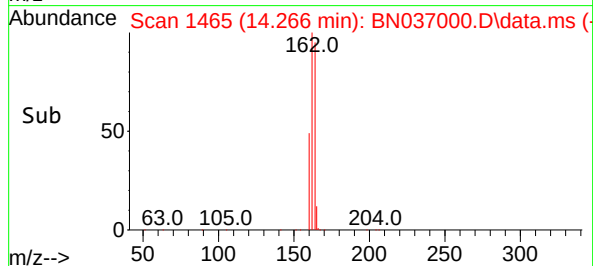
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



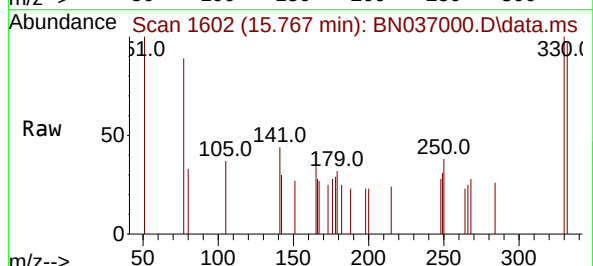
Tgt Ion:164 Resp: 3174
Ion Ratio Lower Upper
164 100
162 105.4 84.2 126.4
160 52.6 42.6 63.8

Manual Integrations
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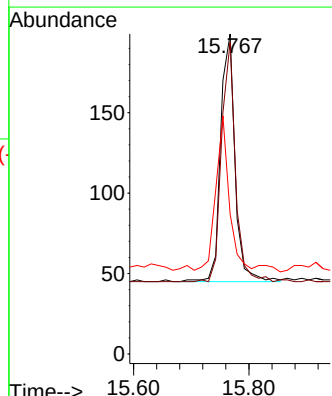
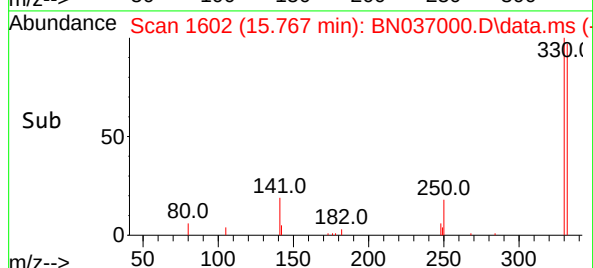
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

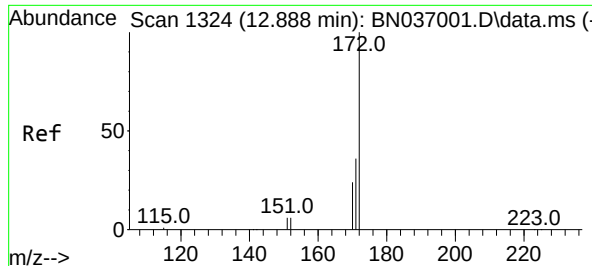


#14
2,4,6-Tribromophenol
Concen: 0.192 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17



Tgt Ion:330 Resp: 267
Ion Ratio Lower Upper
330 100
332 93.3 73.8 110.8
141 58.1 43.9 65.9





#15

2-Fluorobiphenyl

Concen: 0.197 ng

RT: 12.888 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

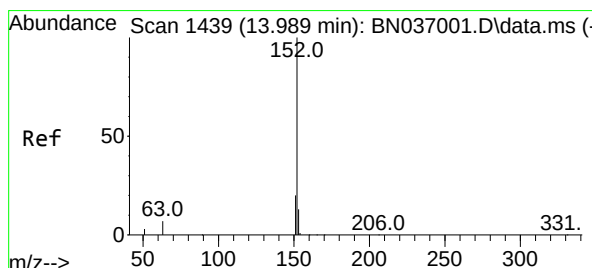
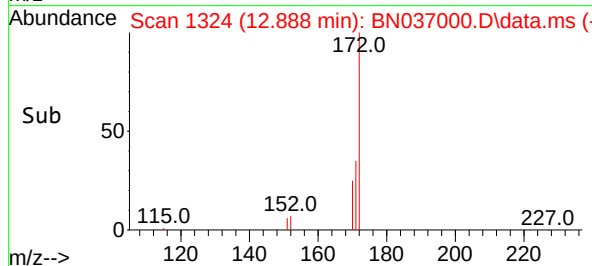
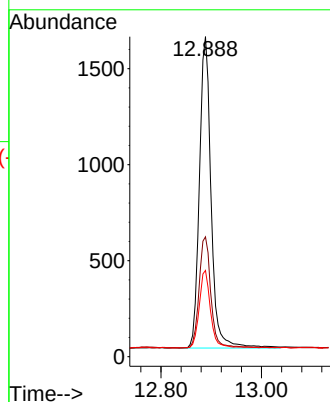
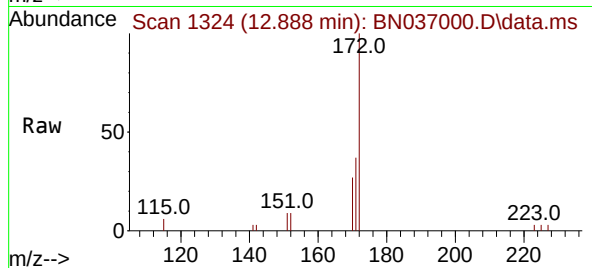
Tgt Ion:	172	Resp:	285
Ion	Ratio	Lower	Upper
172	100		
171	37.4	29.2	43.8
170	26.9	20.5	30.7

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#16

Acenaphthylene

Concen: 0.189 ng

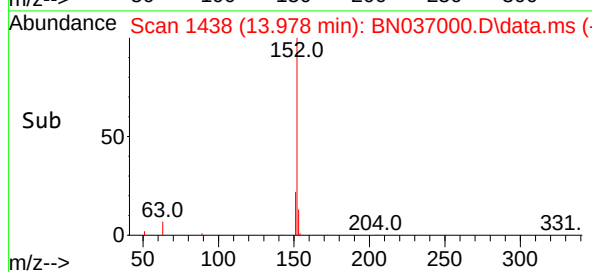
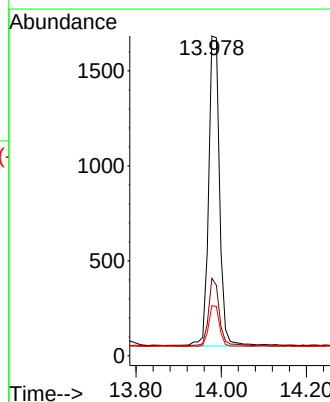
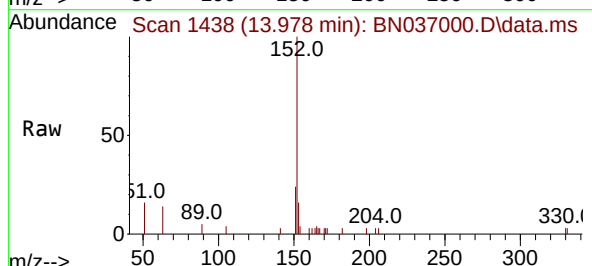
RT: 13.978 min Scan# 1438

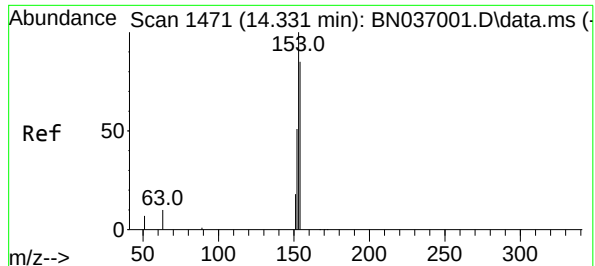
Delta R.T. -0.011 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

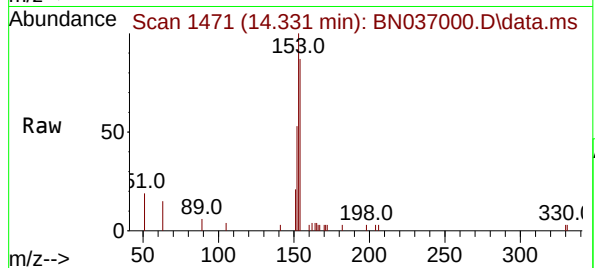
Tgt Ion:	152	Resp:	2917
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.1	24.1
153	13.7	10.5	15.7





#17
Acenaphthene
Concen: 0.193 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

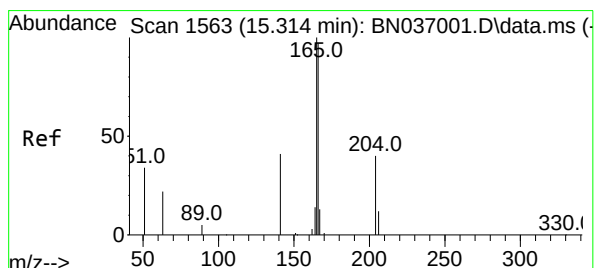
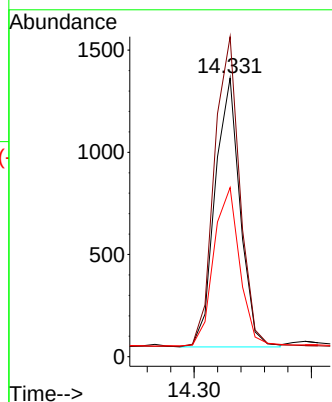
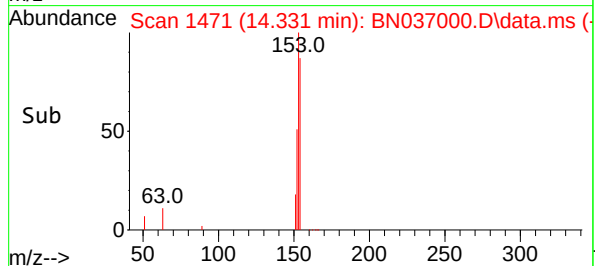
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 1950
Ion Ratio Lower Upper
154 100
153 117.0 94.2 141.4
152 62.3 49.4 74.0

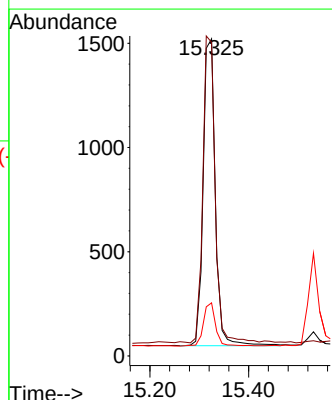
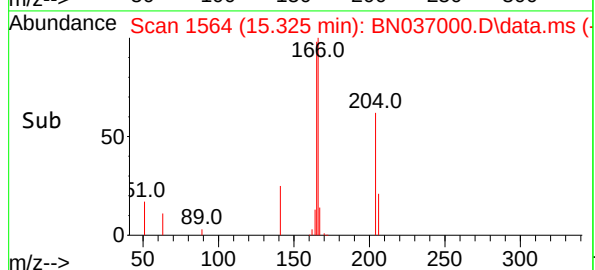
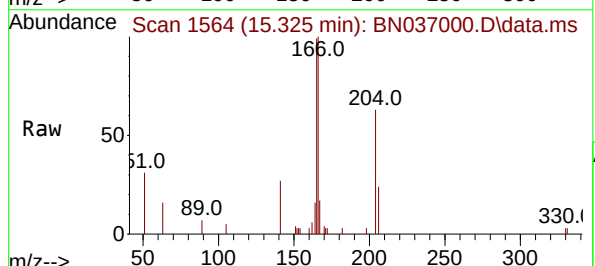
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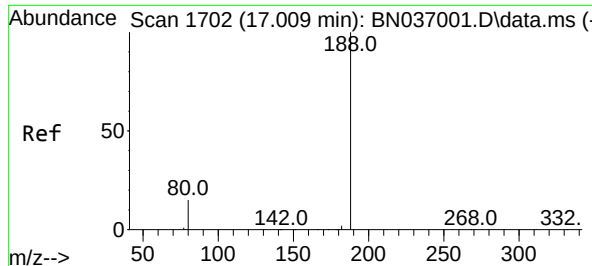
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#18
Fluorene
Concen: 0.189 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:166 Resp: 2509
Ion Ratio Lower Upper
166 100
165 99.9 80.6 120.8
167 14.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

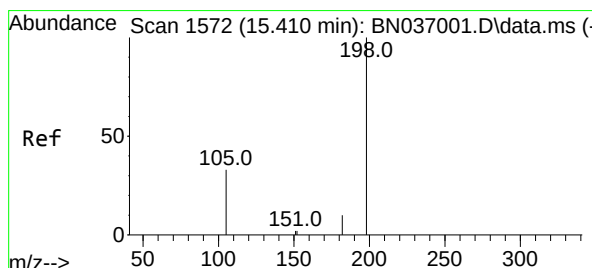
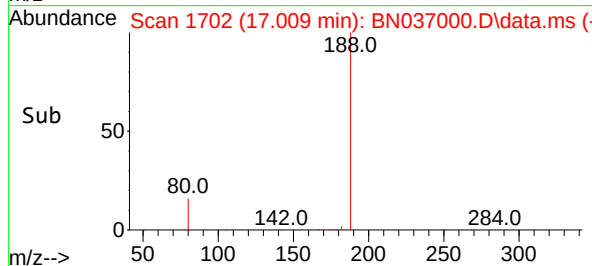
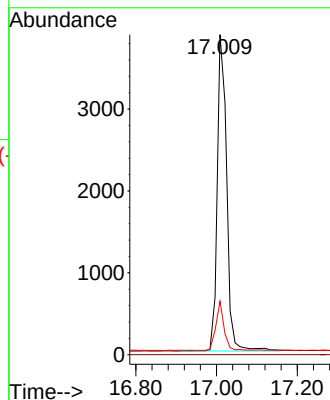
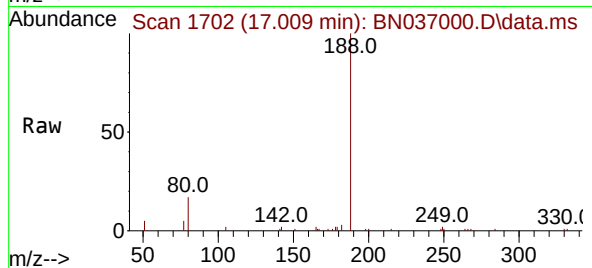
Tgt Ion:188 Resp: 625

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.7	13.4	20.0

Manual Integrations
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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.167 ng

RT: 15.410 min Scan# 1572

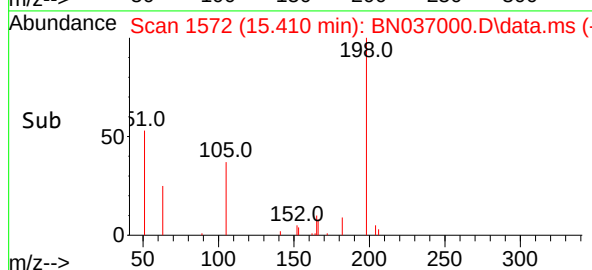
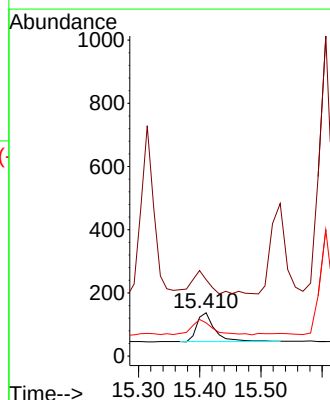
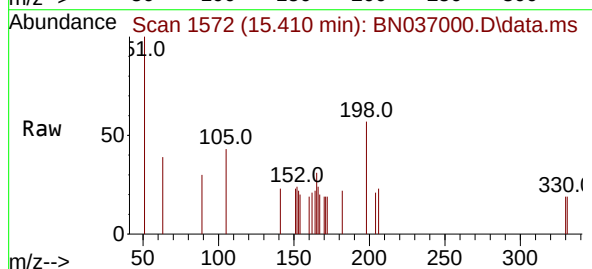
Delta R.T. 0.000 min

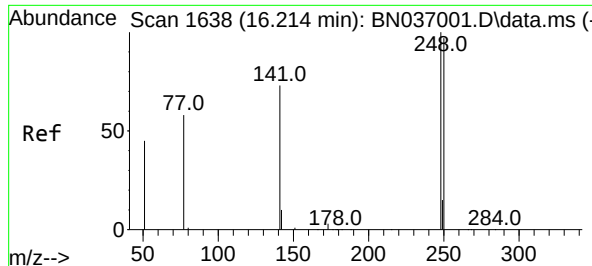
Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:198 Resp: 187

Ion	Ratio	Lower	Upper
198	100		
51	176.6	87.8	131.6#
105	76.6	44.2	66.4#





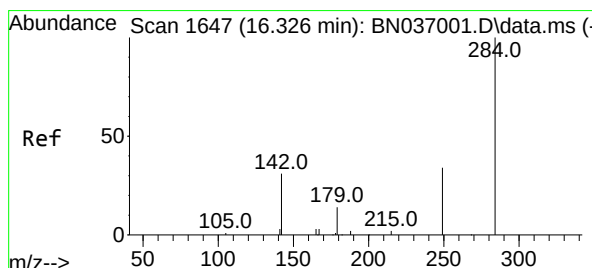
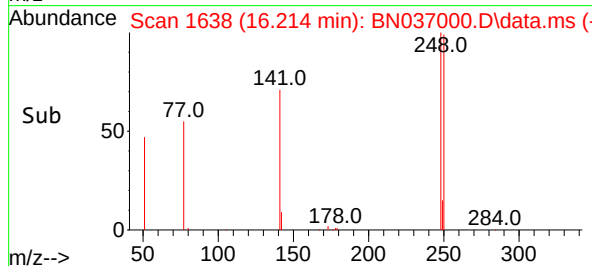
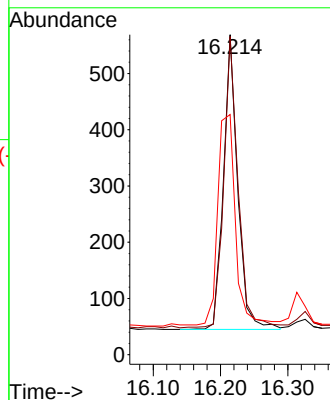
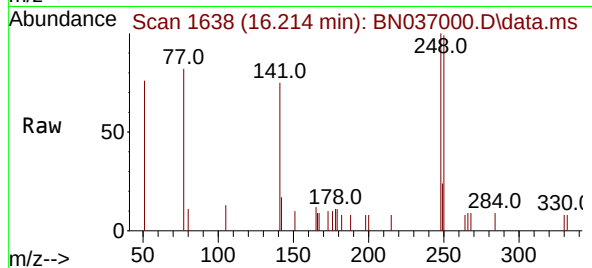
#21
4-Bromophenyl-phenylether
Concen: 0.195 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 770
Ion Ratio Lower Upper
248 100
250 99.5 78.1 117.1
141 75.0 59.7 89.5

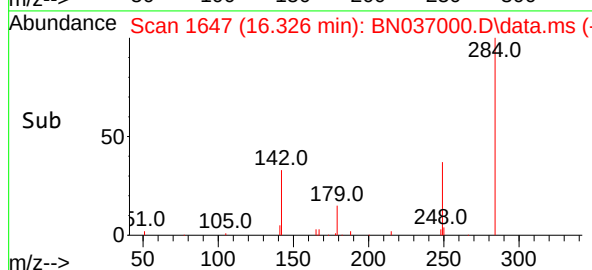
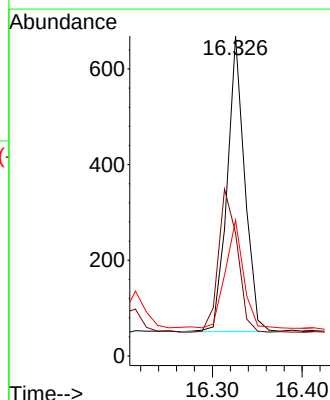
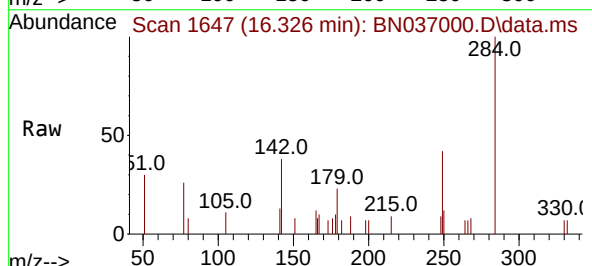
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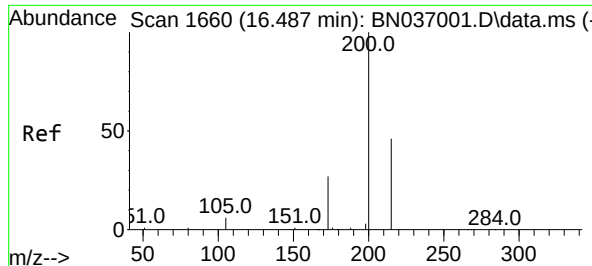
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#22
Hexachlorobenzene
Concen: 0.199 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:284 Resp: 840
Ion Ratio Lower Upper
284 100
142 52.3 41.2 61.8
249 37.9 28.7 43.1





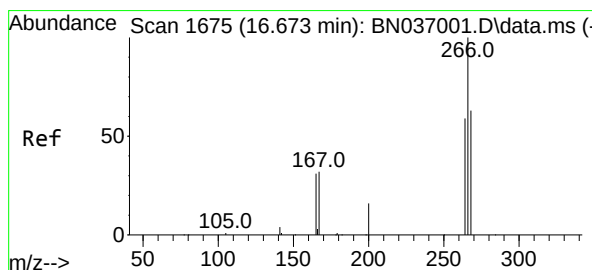
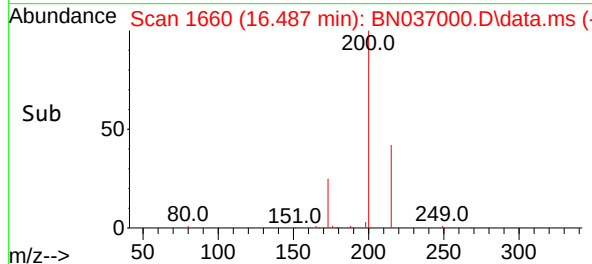
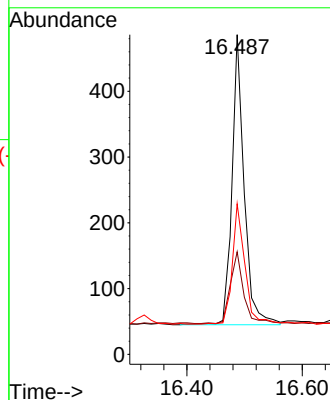
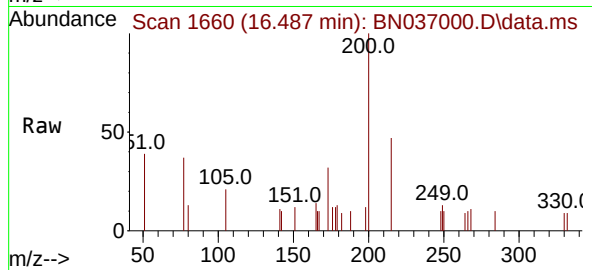
#23
Atrazine
Concen: 0.188 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
200	100		
173	32.1	25.2	37.8
215	47.1	39.3	58.9

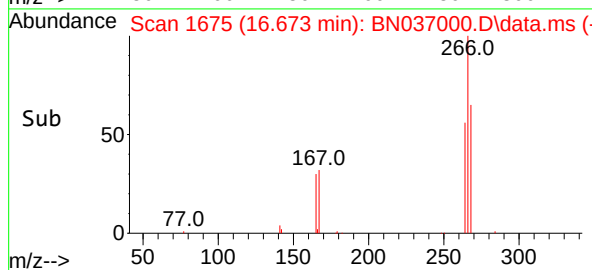
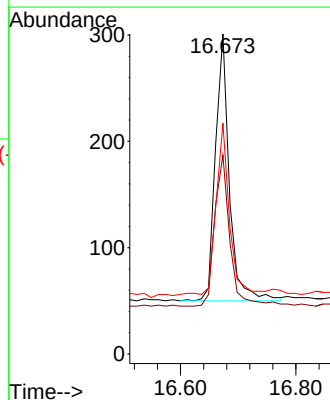
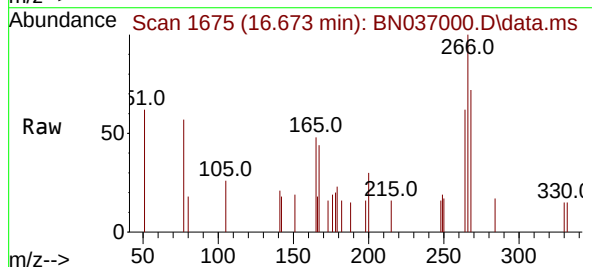
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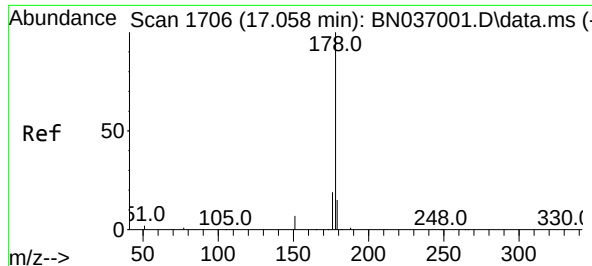
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	47.9	71.9
268	62.8	50.0	75.0





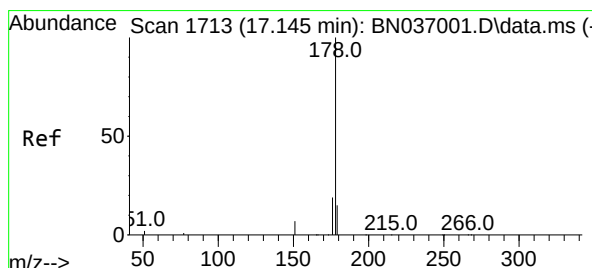
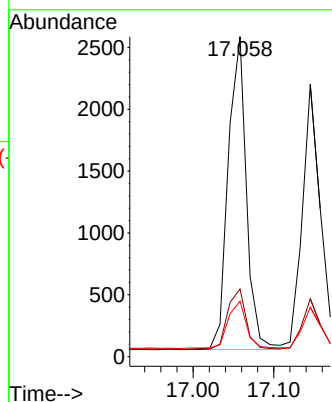
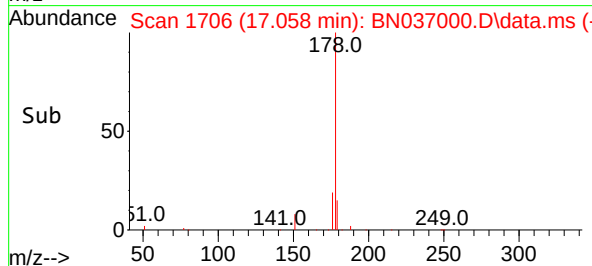
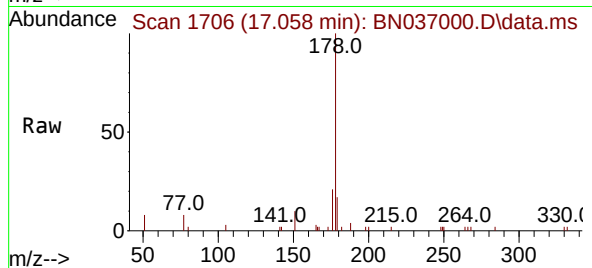
#25
Phenanthrene
Concen: 0.195 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 397
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.6 12.2 18.2

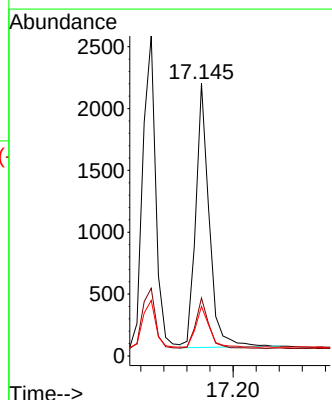
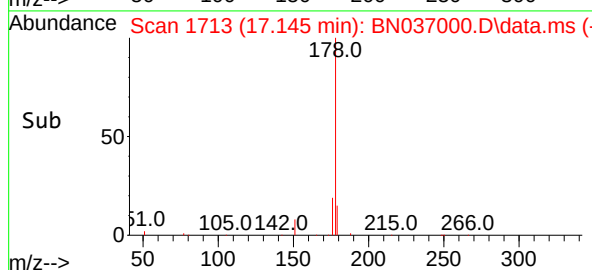
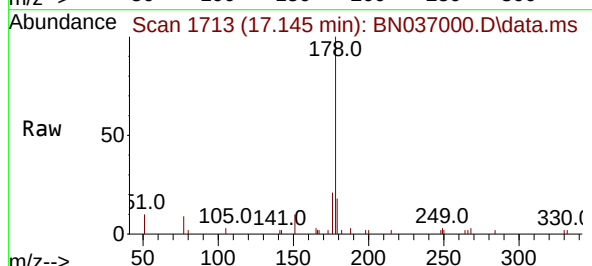
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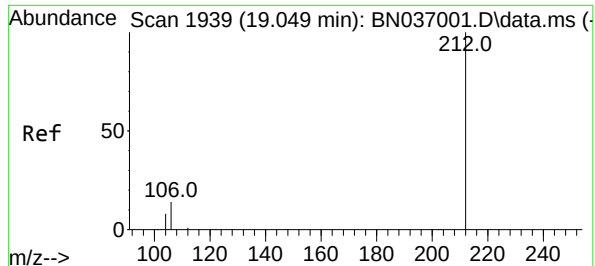
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#26
Anthracene
Concen: 0.186 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:178 Resp: 3452
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

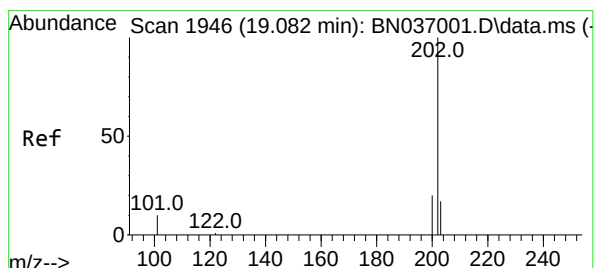
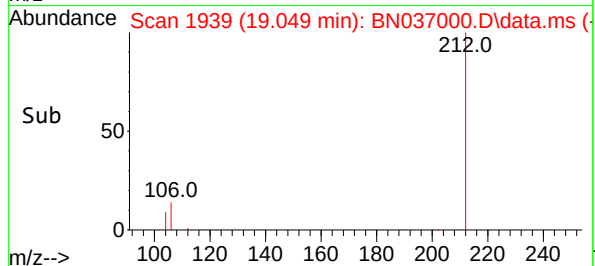
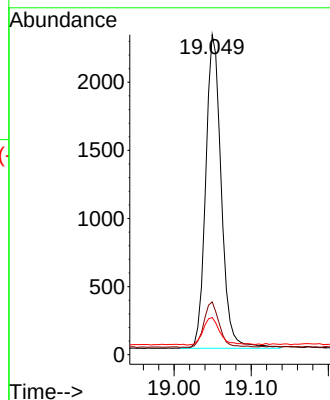
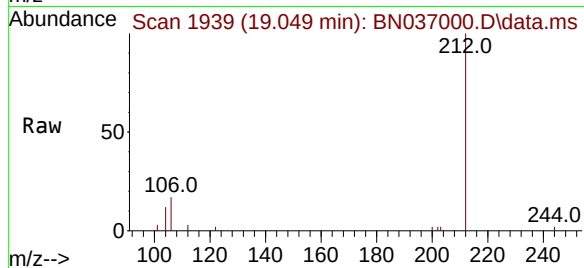
SSTDIC0.2

Tgt Ion:	212	Resp:	323
Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.3	16.9
104	9.5	6.7	10.1

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#28

Fluoranthene

Concen: 0.184 ng

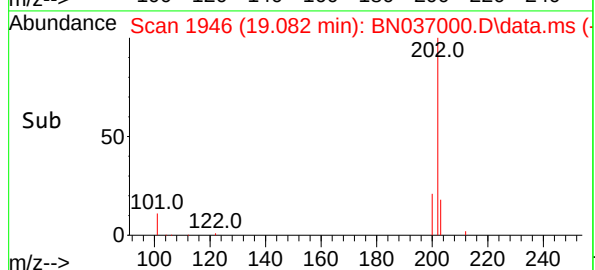
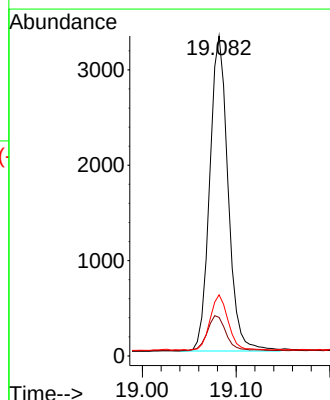
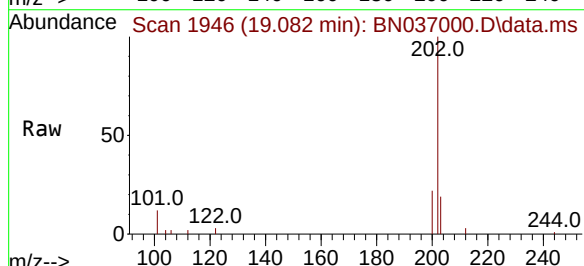
RT: 19.082 min Scan# 1946

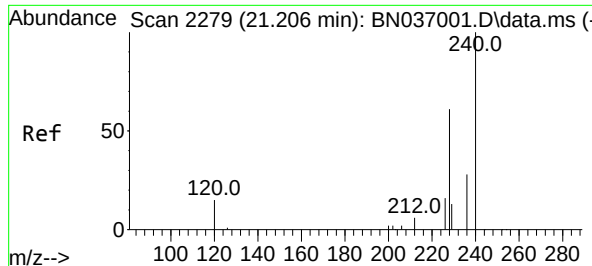
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:	202	Resp:	4499
Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.9	13.3
203	17.6	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

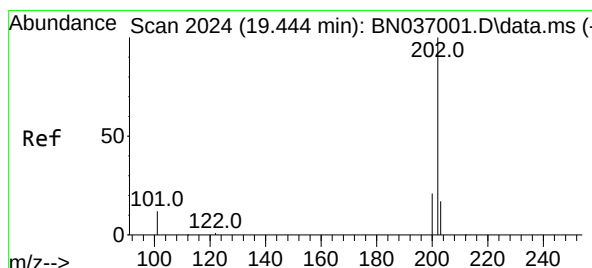
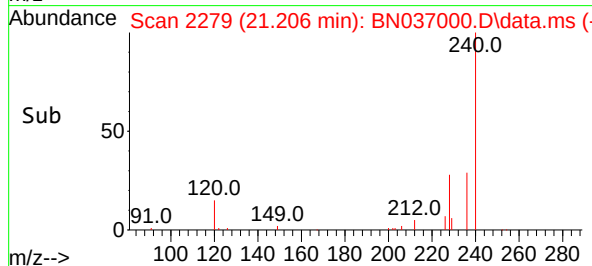
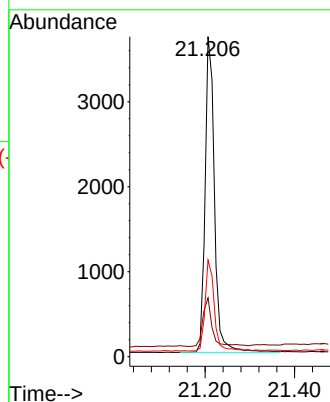
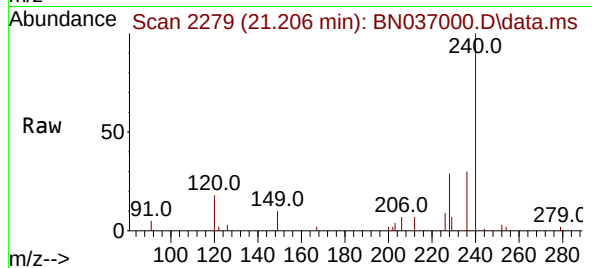
Tgt Ion:	240	Resp:	5420
Ion Ratio	Lower	Upper	
240	100		
120	18.3	15.1	22.7
236	30.2	24.0	36.0

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#30

Pyrene

Concen: 0.200 ng

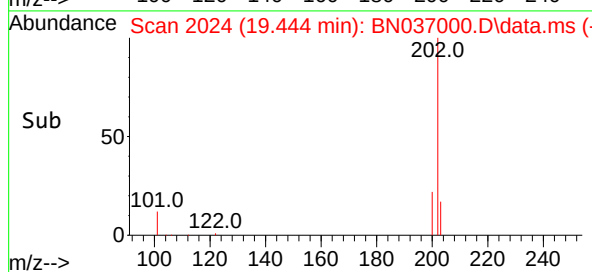
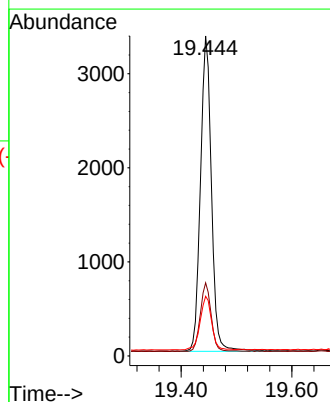
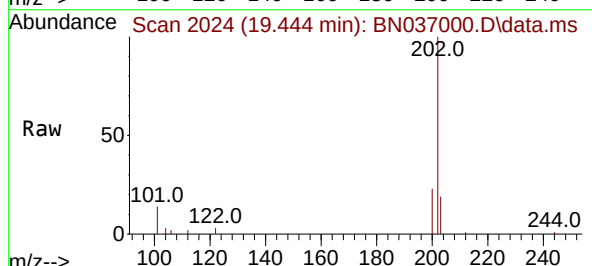
RT: 19.444 min Scan# 2024

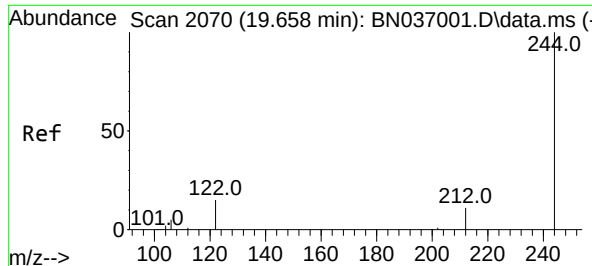
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:	202	Resp:	4629
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.1	25.7
203	17.7	14.2	21.4





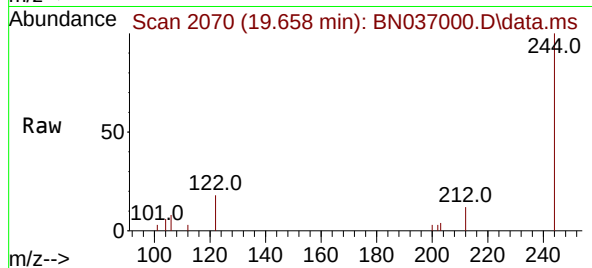
#31
Terphenyl-d14
Concen: 0.197 ng
RT: 19.658 min Scan# 2070
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

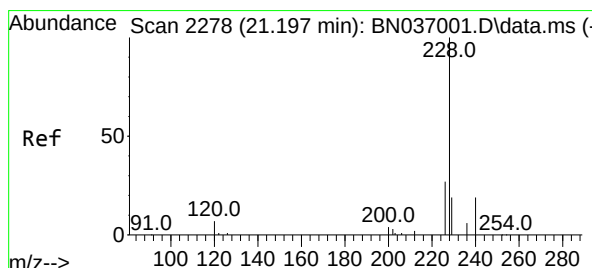
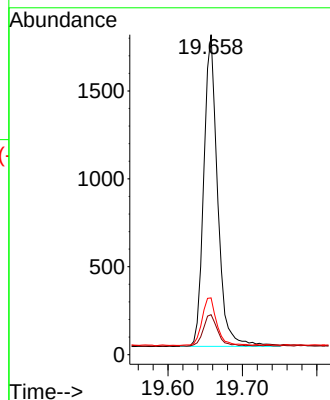
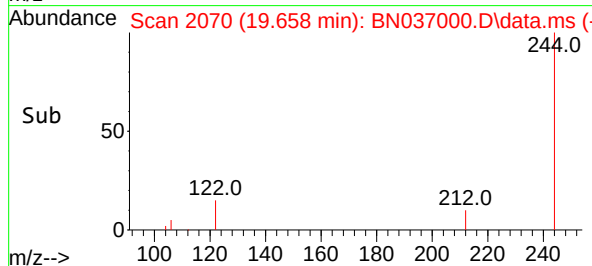
SSTDICC0.2



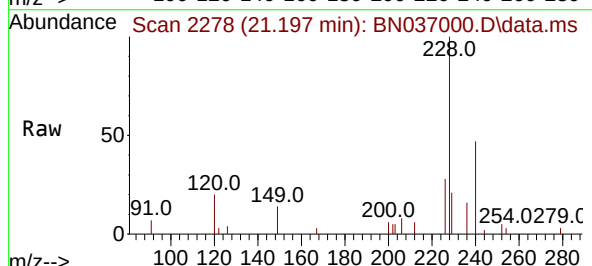
Tgt Ion:244 Resp: 228
Ion Ratio Lower Upper
244 100
212 12.5 9.7 14.5
122 17.7 13.4 20.0

Manual Integrations
APPROVED

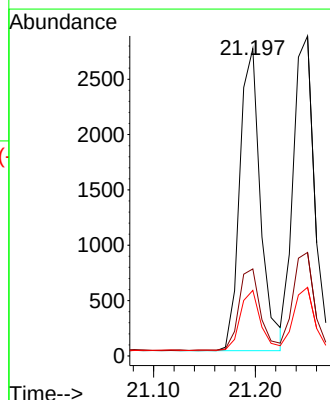
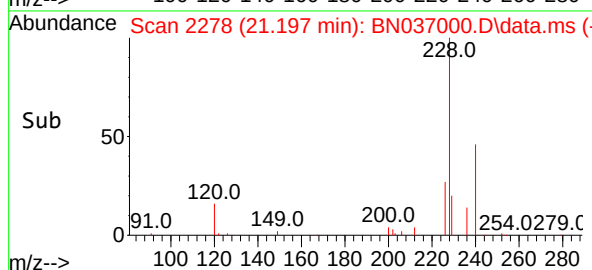
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

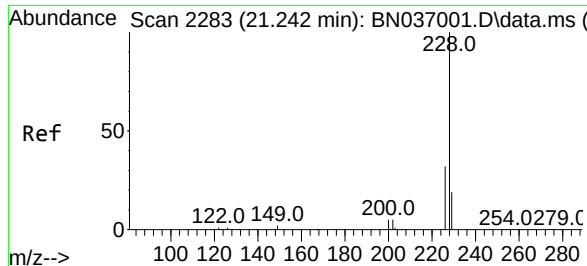


#32
Benzo(a)anthracene
Concen: 0.190 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17



Tgt Ion:228 Resp: 3882
Ion Ratio Lower Upper
228 100
226 28.3 22.2 33.4
229 21.4 16.0 24.0





#33

Chrysene

Concen: 0.196 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

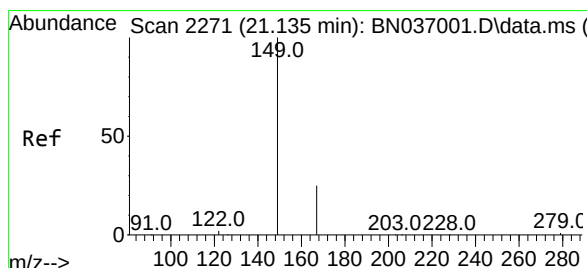
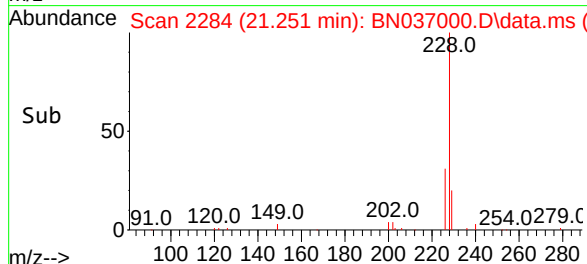
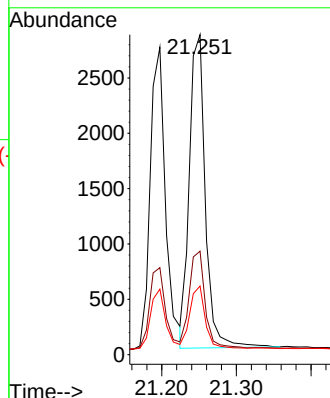
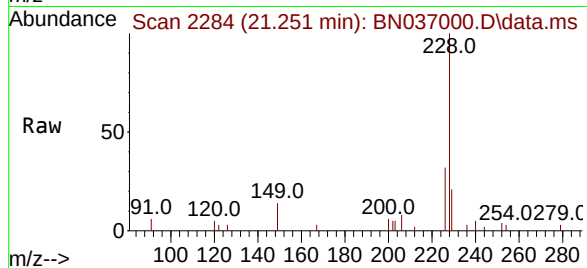
SSTDICC0.2

Tgt Ion:	228	Resp:	4220
Ion Ratio	Lower	Upper	
228	100		
226	32.3	26.3	39.5
229	21.4	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.198 ng

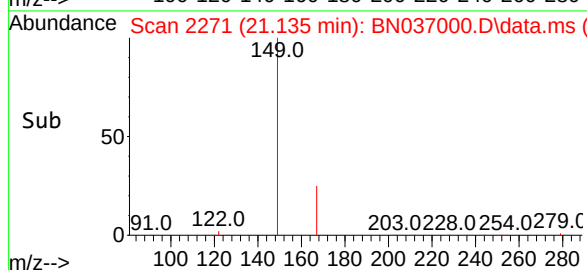
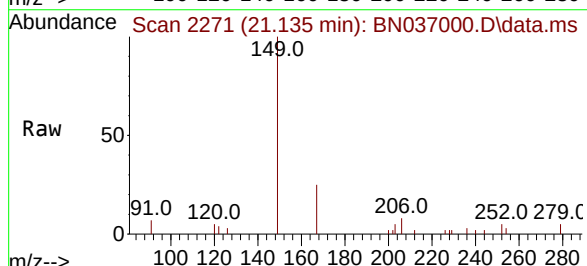
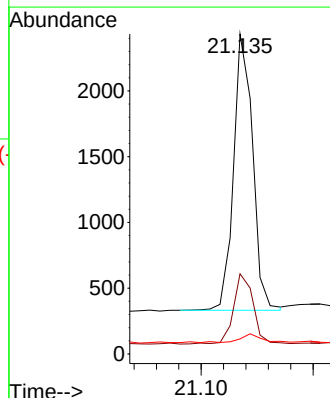
RT: 21.135 min Scan# 2271

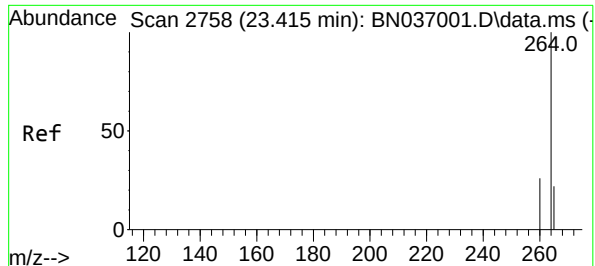
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:	149	Resp:	2490
Ion Ratio	Lower	Upper	
149	100		
167	26.4	20.6	30.8
279	3.8	2.6	3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

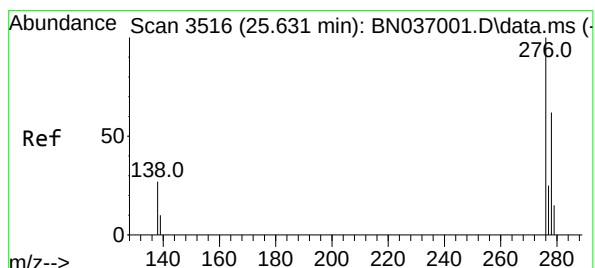
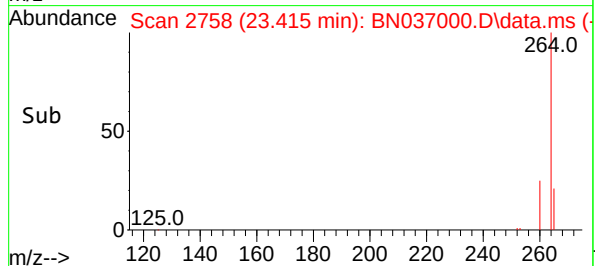
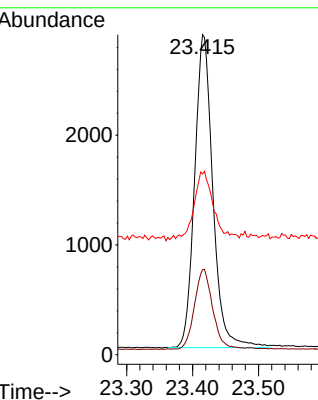
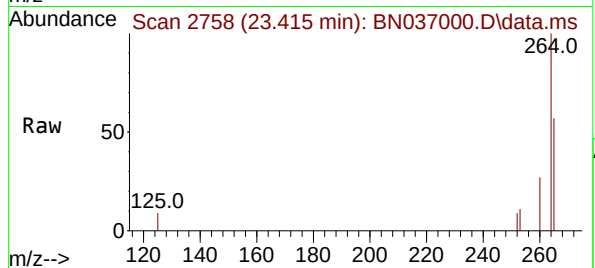
SSTDIC0.2

Tgt Ion:264	Resp:	548
Ion Ratio	Lower	Upper
264	100	
260	26.6	21.9 32.9
265	56.5	51.6 77.4

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.198 ng

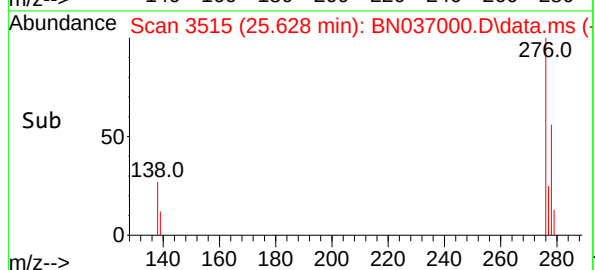
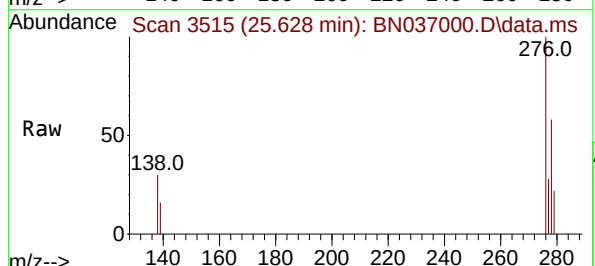
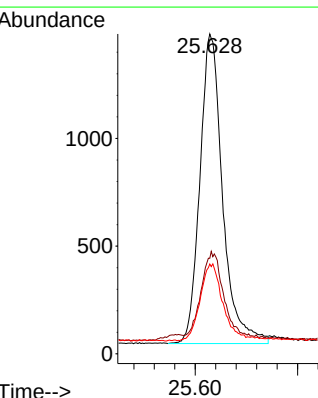
RT: 25.628 min Scan# 3515

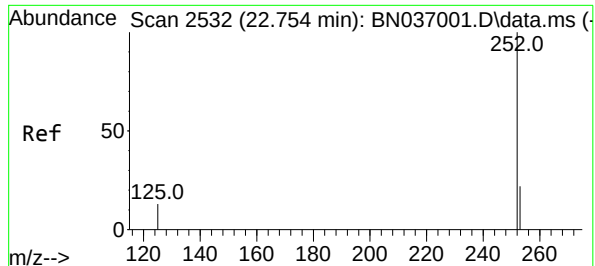
Delta R.T. -0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:276	Resp:	4426
Ion Ratio	Lower	Upper
276	100	
138	27.9	22.7 34.1
277	24.6	20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.189 ng m

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037000.D

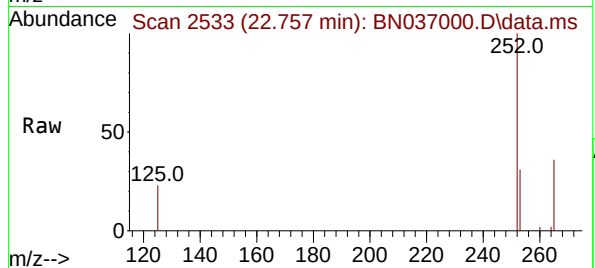
Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:252 Resp: 4300

Ion Ratio Lower Upper

252 100

253 31.3 21.8 32.6

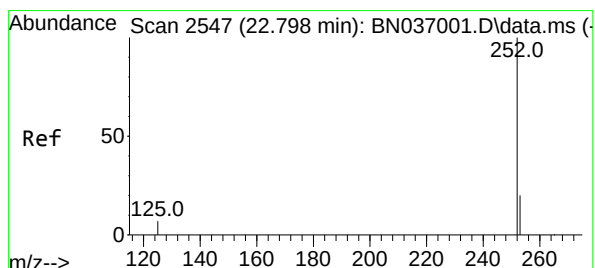
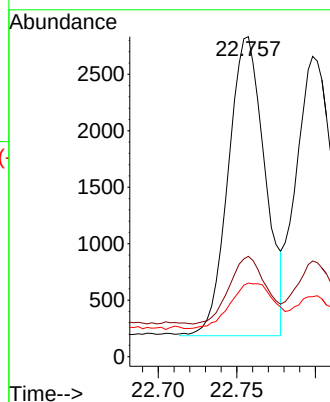
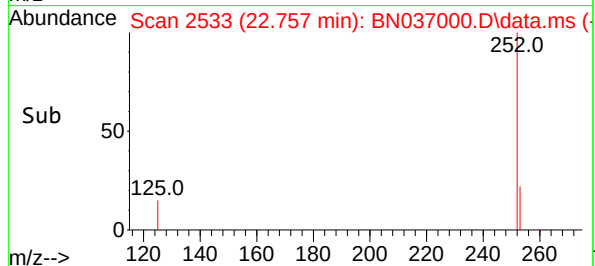
125 23.0 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#38

Benzo(k)fluoranthene

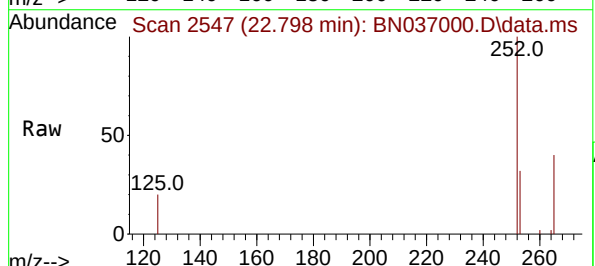
Concen: 0.188 ng

RT: 22.798 min Scan# 2547

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17



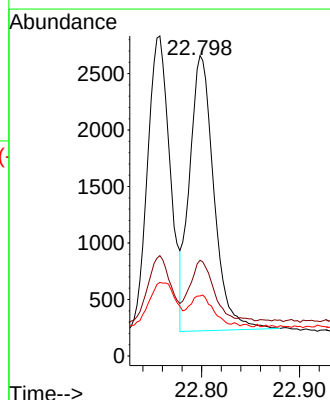
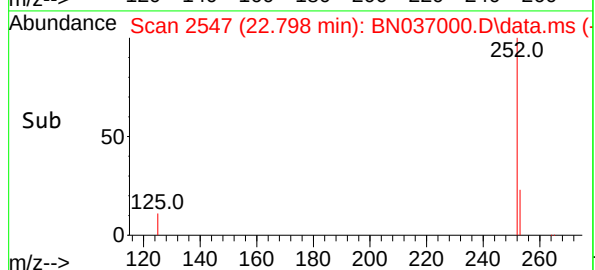
Tgt Ion:252 Resp: 4219

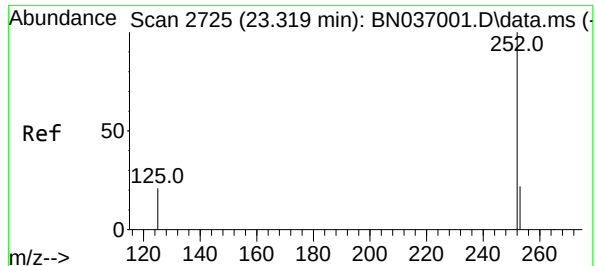
Ion Ratio Lower Upper

252 100

253 31.9 21.4 32.2

125 20.0 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.191 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

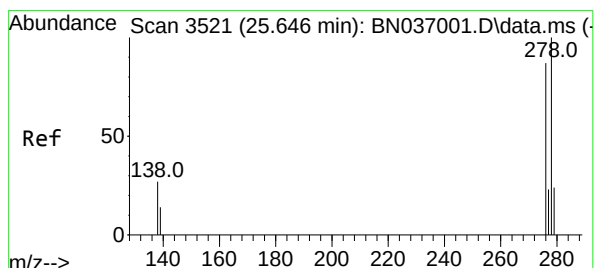
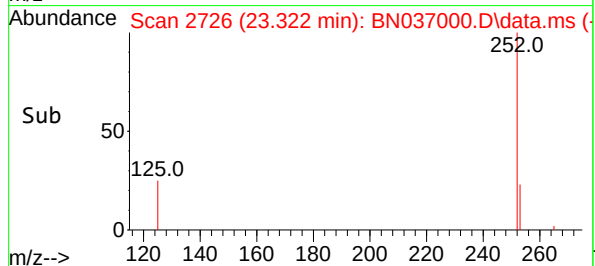
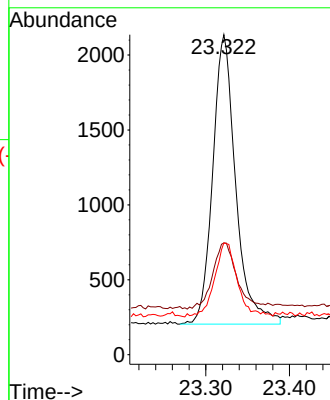
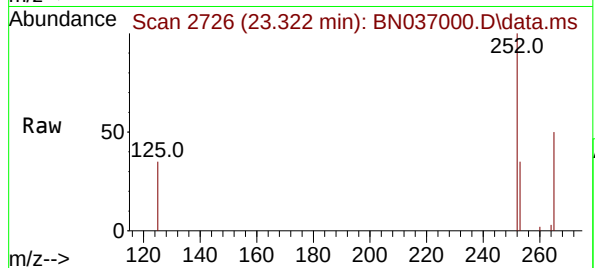
Tgt Ion:	252	Resp:	368
Ion Ratio	Lower	Upper	
252	100		
253	34.9	23.8	35.6
125	35.0	21.8	32.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.194 ng

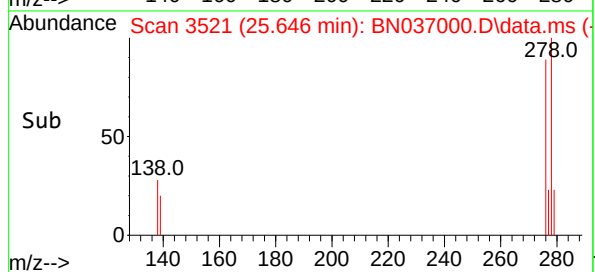
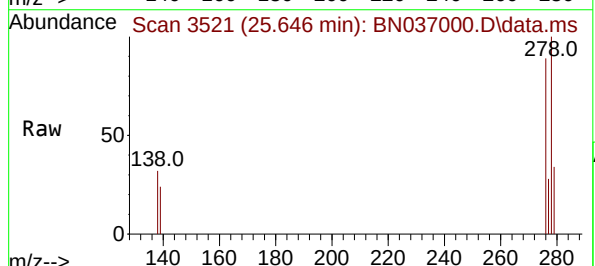
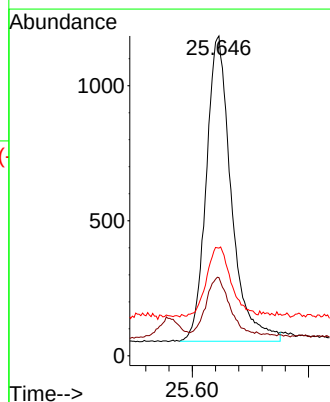
RT: 25.646 min Scan# 3521

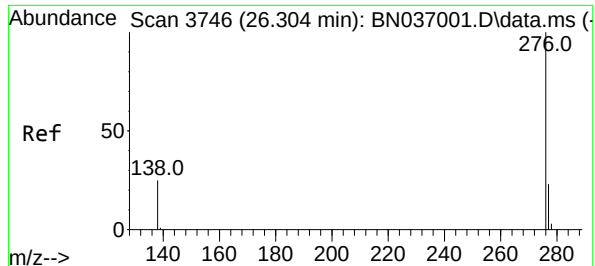
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:	278	Resp:	3380
Ion Ratio	Lower	Upper	
278	100		
139	24.5	17.4	26.0
279	33.7	24.6	37.0





#41

Benzo(g,h,i)perylene

Concen: 0.204 ng

RT: 26.301 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037000.D

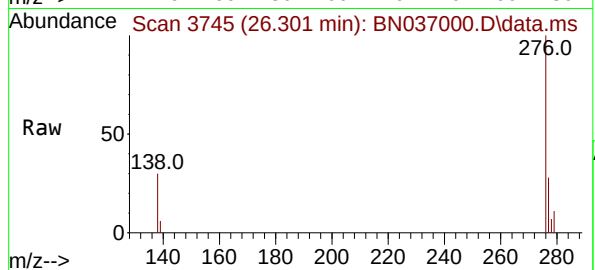
Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 27.6 20.2 30.4

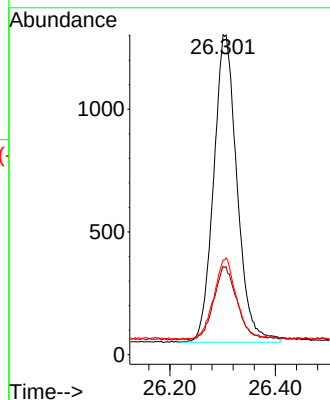
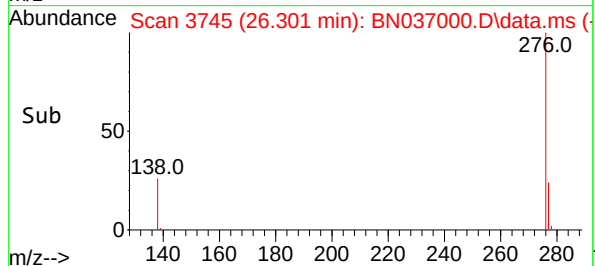
138 29.6 22.0 33.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037001.D
 Acq On : 13 May 2025 18:53
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: May 14 11:00:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

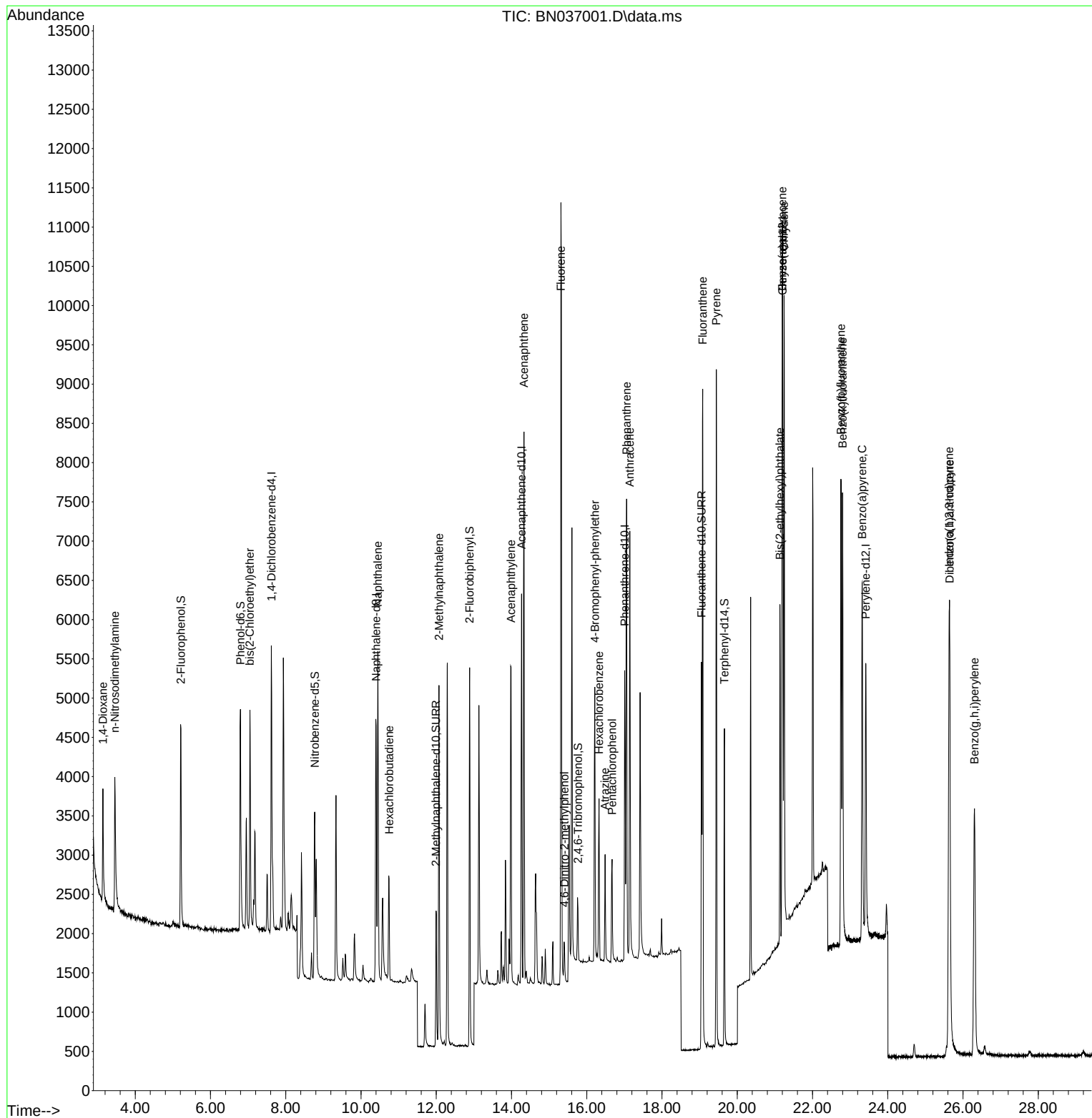
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1733	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4592	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	2562	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	5005	0.400	ng	0.00
29) Chrysene-d12	21.206	240	4458	0.400	ng	0.00
35) Perylene-d12	23.415	264	4521	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1966	0.433	ng	0.00
5) Phenol-d6	6.795	99	2400	0.422	ng	0.00
8) Nitrobenzene-d5	8.771	82	1828	0.366	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	2535	0.392	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	455	0.404	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	4870	0.415	ng	0.00
27) Fluoranthene-d10	19.049	212	5393	0.393	ng	0.00
31) Terphenyl-d14	19.658	244	3883	0.407	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.140	88	888	0.418	ng	100
3) n-Nitrosodimethylamine	3.458	42	1699	0.372	ng	99
6) bis(2-Chloroethyl)ether	7.048	93	1999	0.382	ng	100
9) Naphthalene	10.447	128	5251	0.387	ng	100
10) Hexachlorobutadiene	10.746	225	1119	0.393	ng	# 100
12) 2-Methylnaphthalene	12.072	142	3380	0.387	ng	100
16) Acenaphthylene	13.989	152	4852	0.389	ng	100
17) Acenaphthene	14.331	154	3184	0.391	ng	100
18) Fluorene	15.314	166	4190	0.392	ng	100
20) 4,6-Dinitro-2-methylph...	15.410	198	367	0.377	ng	100
21) 4-Bromophenyl-phenylether	16.214	248	1252	0.396	ng	100
22) Hexachlorobenzene	16.326	284	1408	0.416	ng	100
23) Atrazine	16.487	200	1056	0.383	ng	100
24) Pentachlorophenol	16.673	266	706	0.376	ng	100
25) Phenanthrene	17.058	178	6468	0.395	ng	100
26) Anthracene	17.145	178	5835	0.392	ng	100
28) Fluoranthene	19.082	202	7510	0.384	ng	100
30) Pyrene	19.444	202	7697	0.404	ng	100
32) Benzo(a)anthracene	21.197	228	6620	0.394	ng	100
33) Chrysene	21.242	228	7204	0.406	ng	100
34) Bis(2-ethylhexyl)phtha...	21.135	149	4039	0.390	ng	100
36) Indeno(1,2,3-cd)pyrene	25.631	276	7438	0.403	ng	100
37) Benzo(b)fluoranthene	22.754	252	7242	0.386	ng	100
38) Benzo(k)fluoranthene	22.798	252	7424	0.401	ng	100
39) Benzo(a)pyrene	23.319	252	6245	0.393	ng	100
40) Dibenzo(a,h)anthracene	25.646	278	5753	0.400	ng	100
41) Benzo(g,h,i)perylene	26.304	276	6438	0.412	ng	100

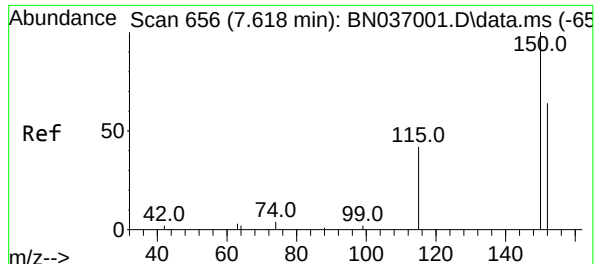
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037001.D
Acq On : 13 May 2025 18:53
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: May 14 11:00:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

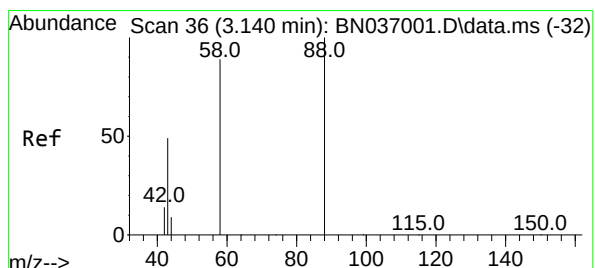
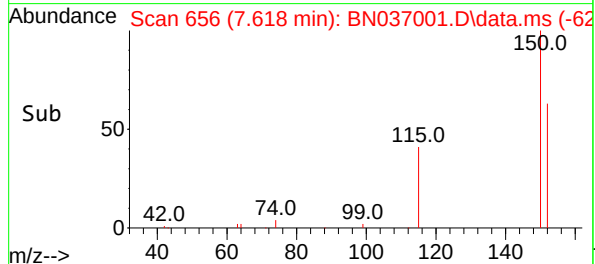
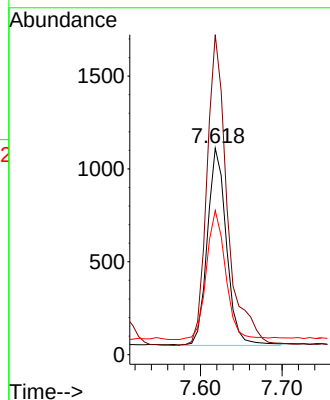
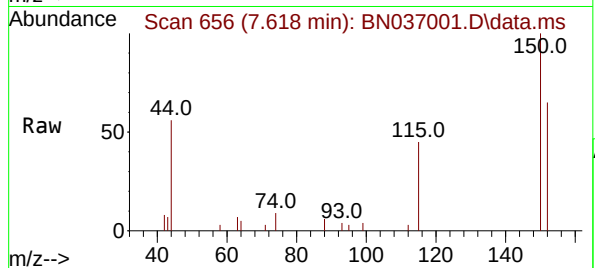




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

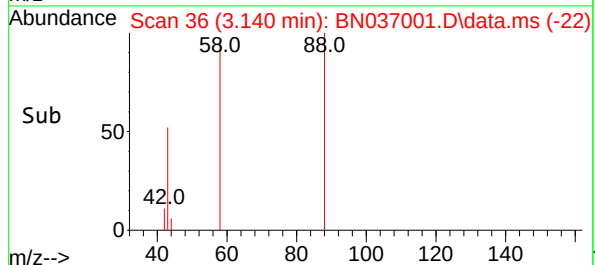
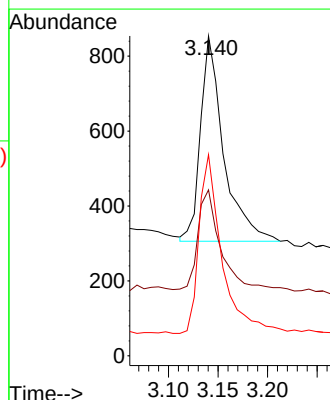
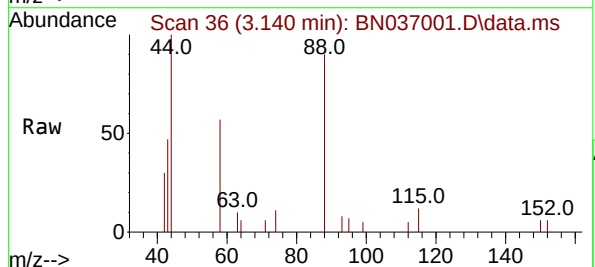
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

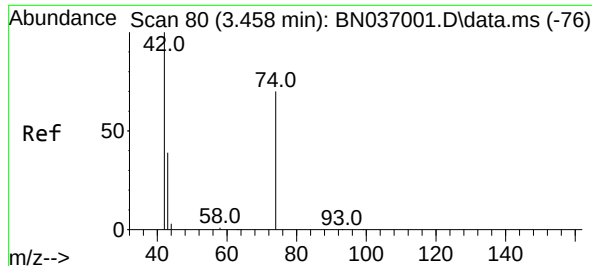
Tgt Ion:152 Resp: 1733
Ion Ratio Lower Upper
152 100
150 154.9 123.9 185.9
115 69.8 55.8 83.8



#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 88 Resp: 888
Ion Ratio Lower Upper
88 100
43 46.7 37.4 56.0
58 86.0 68.8 103.2

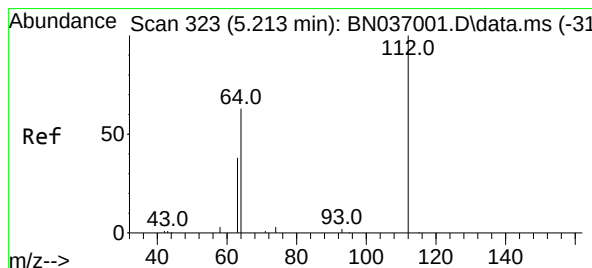
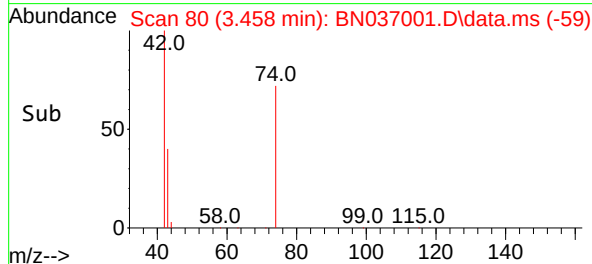
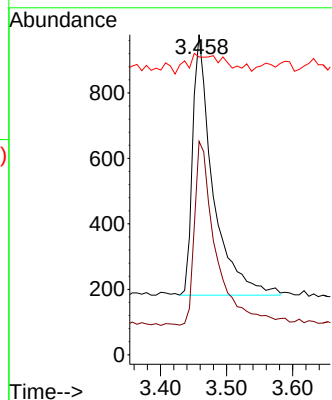
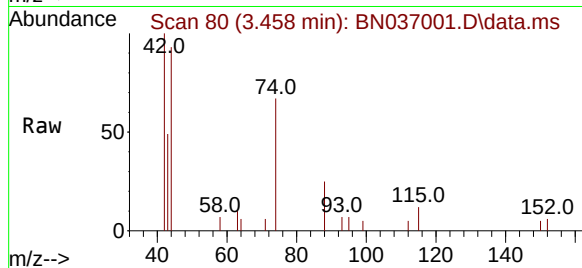




#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

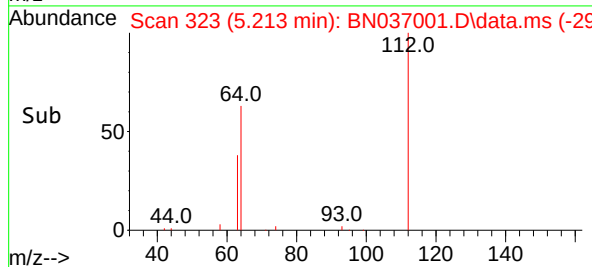
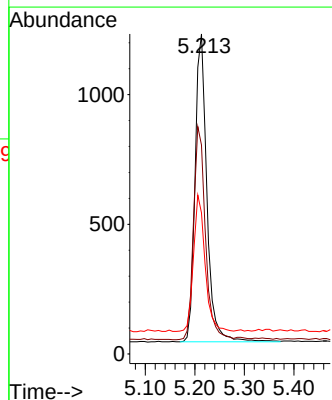
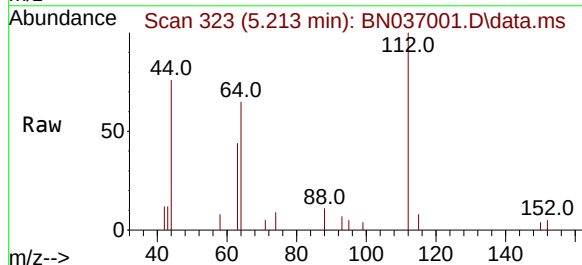
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

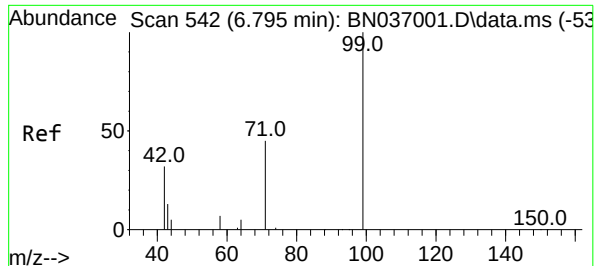
Tgt Ion: 42 Resp: 1699
Ion Ratio Lower Upper
42 100
74 74.2 59.8 89.6
44 14.8 11.9 17.9



#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 112 Resp: 1966
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 43.2 34.6 51.8

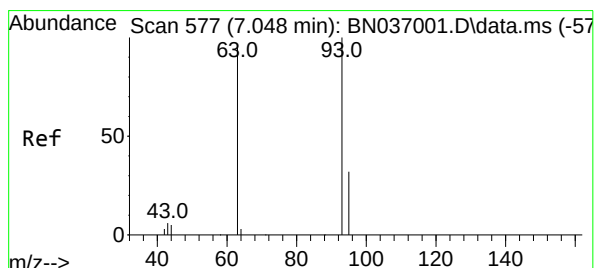
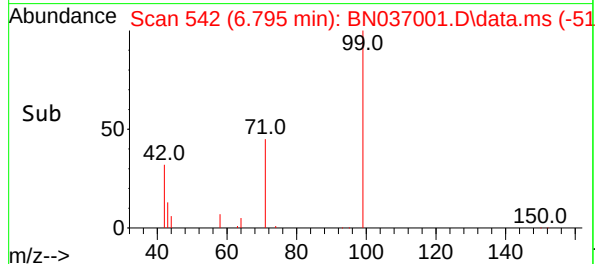
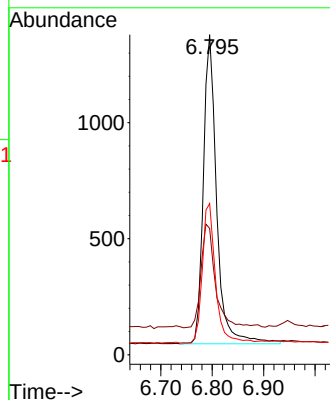
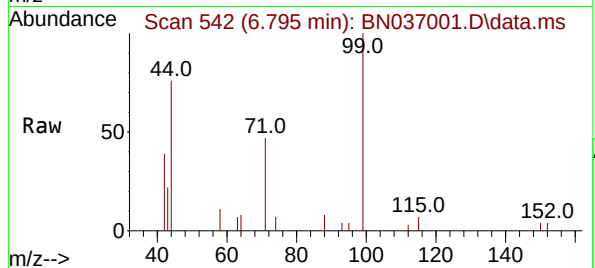




#5
Phenol-d6
Concen: 0.422 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

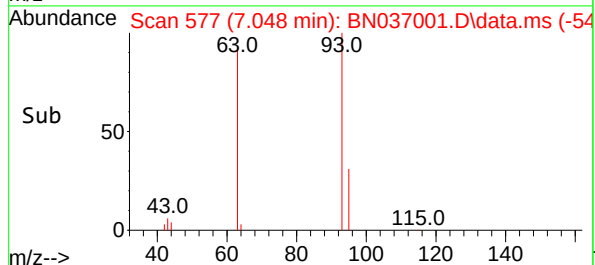
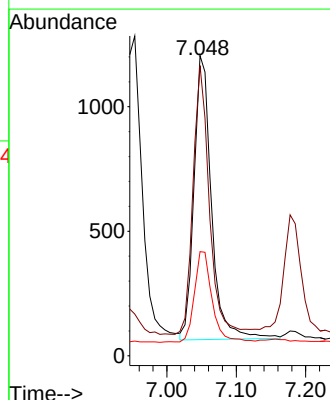
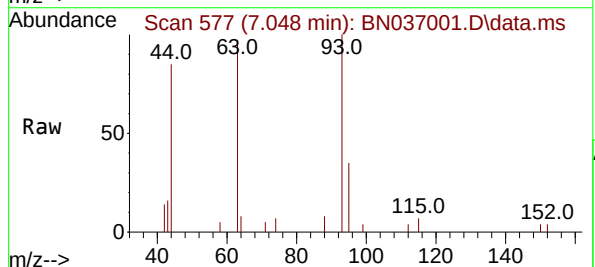
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

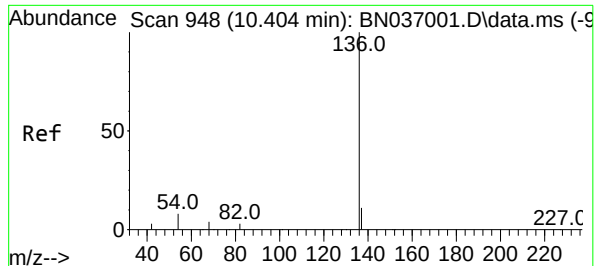
Tgt Ion: 99 Resp: 2400
Ion Ratio Lower Upper
99 100
42 36.6 29.3 43.9
71 44.6 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 93 Resp: 1999
Ion Ratio Lower Upper
93 100
63 87.6 70.1 105.1
95 32.7 26.2 39.2

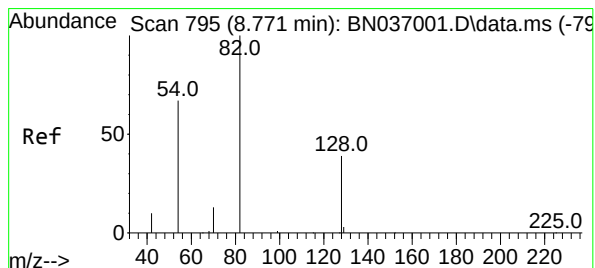
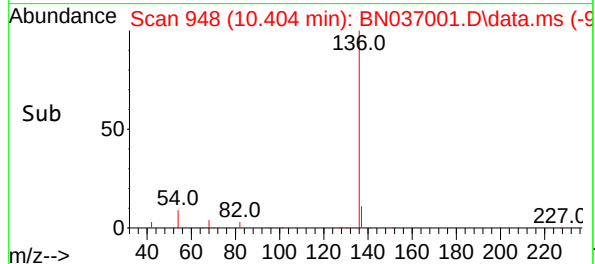
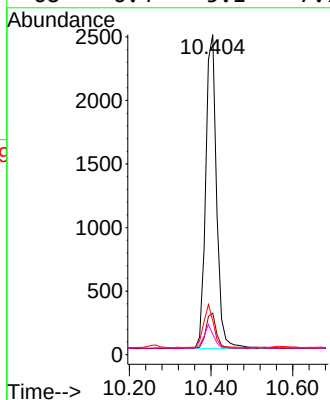
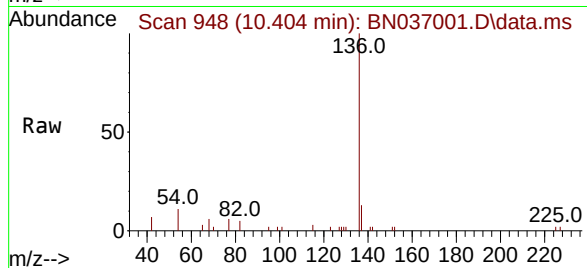




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

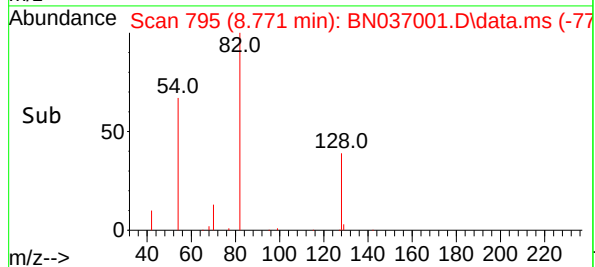
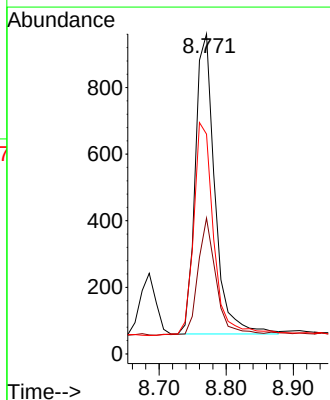
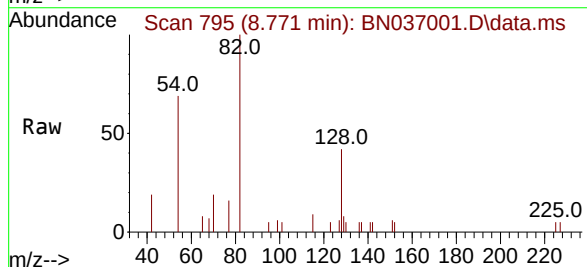
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

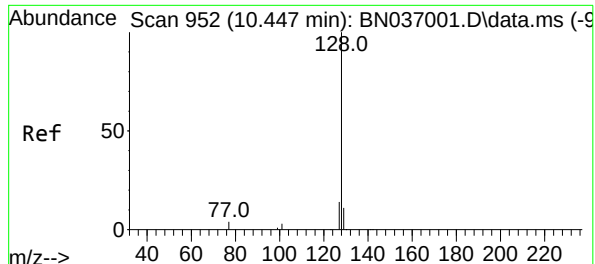
Tgt Ion:	136	Resp:	4592
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.4	15.6
54	10.6	8.5	12.7
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:	82	Resp:	1828
Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.7	55.0	82.4

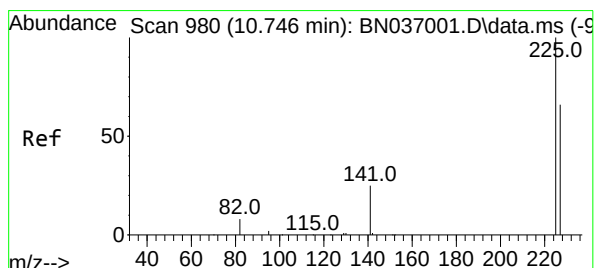
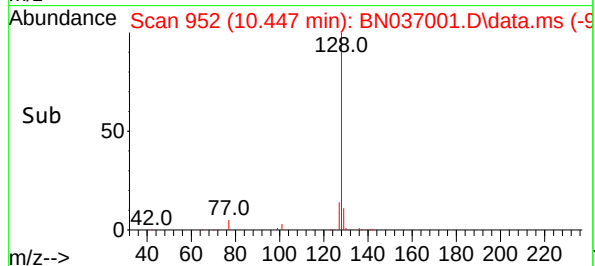
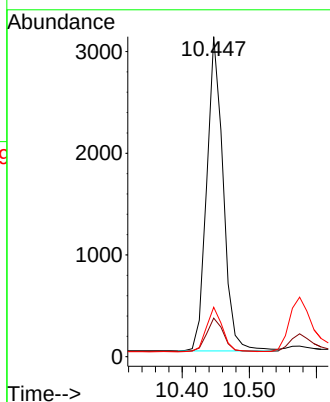
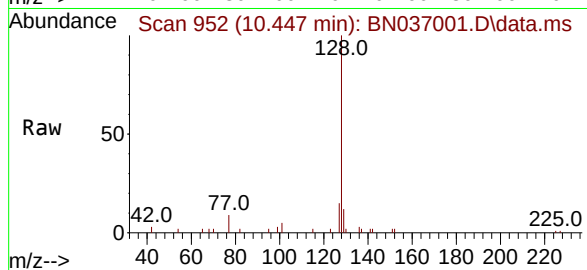




#9
Naphthalene
Concen: 0.387 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

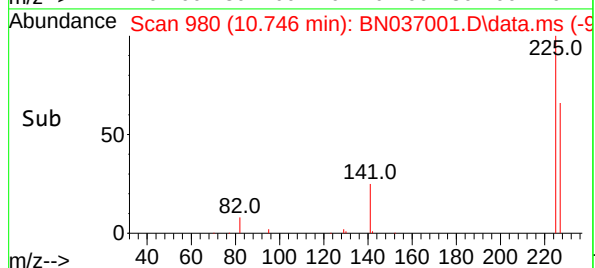
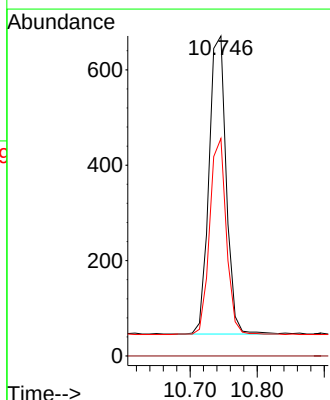
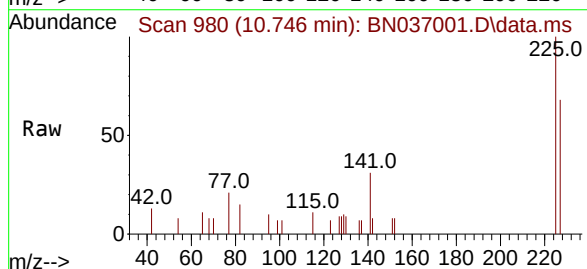
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

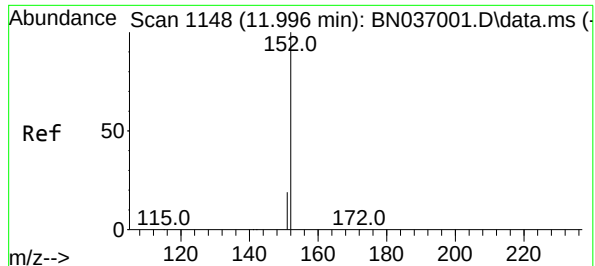
Tgt Ion:	128	Resp:	5251
Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.7	14.5
127	15.5	12.4	18.6



#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:	225	Resp:	1119
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.9	76.3

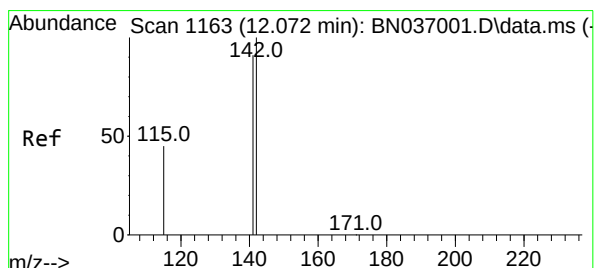
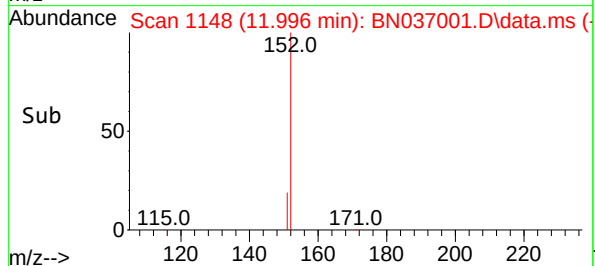
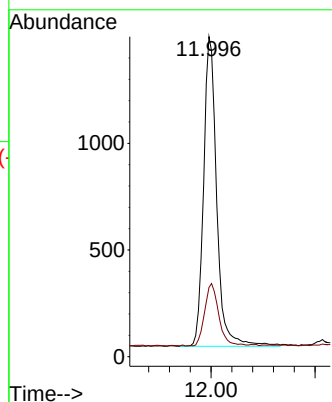
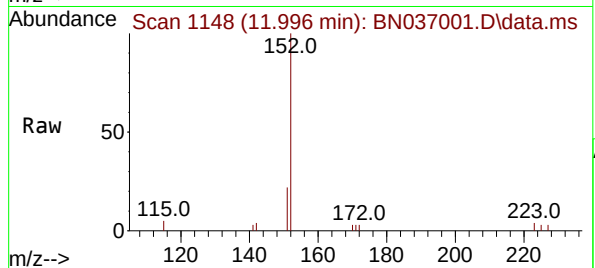




#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

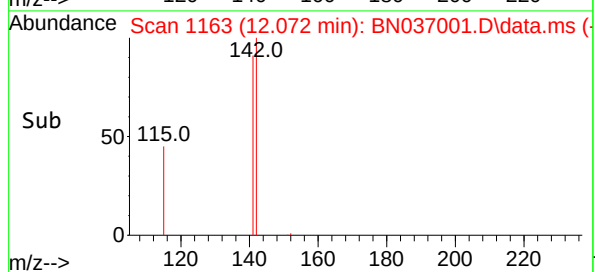
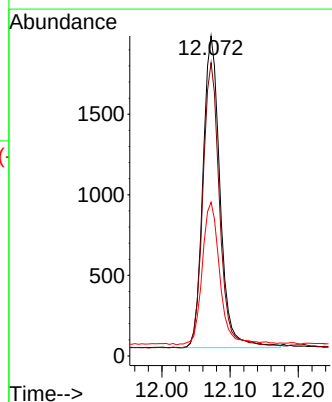
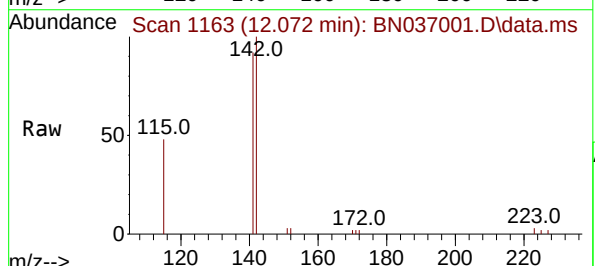
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

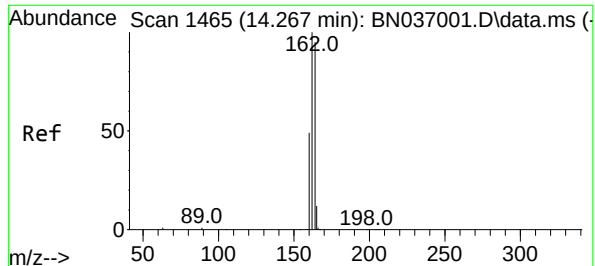
Tgt Ion:152 Resp: 2535
Ion Ratio Lower Upper
152 100
151 21.9 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:142 Resp: 3380
Ion Ratio Lower Upper
142 100
141 91.6 73.3 109.9
115 48.0 38.4 57.6

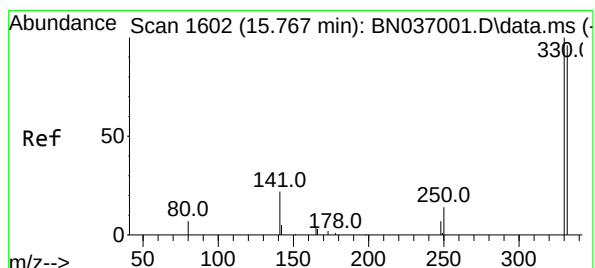
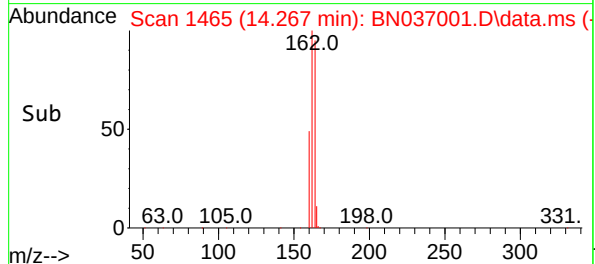
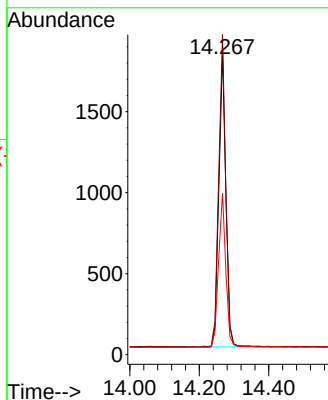
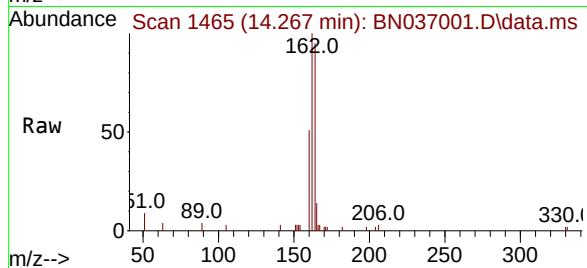




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

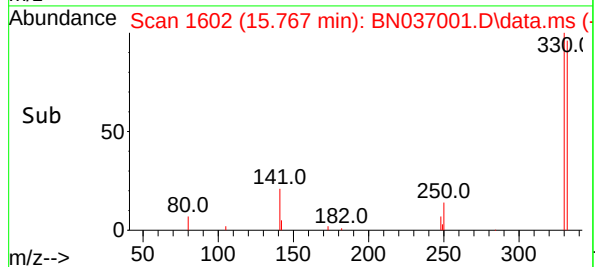
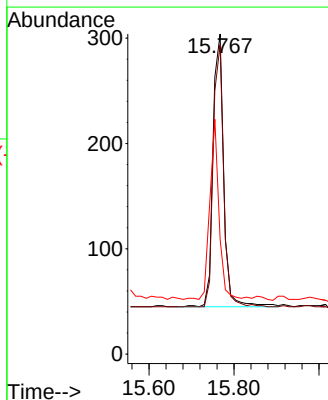
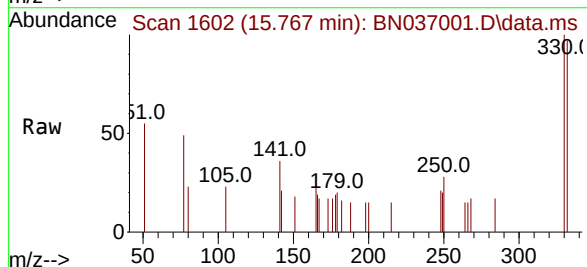
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

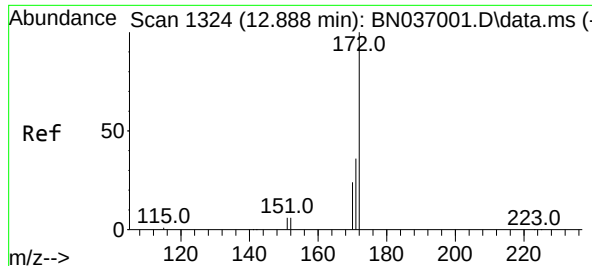
Tgt Ion	164	Resp	2562
Ion Ratio	Lower	Upper	
164	100		
162	105.3	84.2	126.4
160	53.2	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion	330	Resp	455
Ion Ratio	Lower	Upper	
330	100		
332	92.3	73.8	110.8
141	54.9	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 0.415 ng

RT: 12.888 min Scan# 1324

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

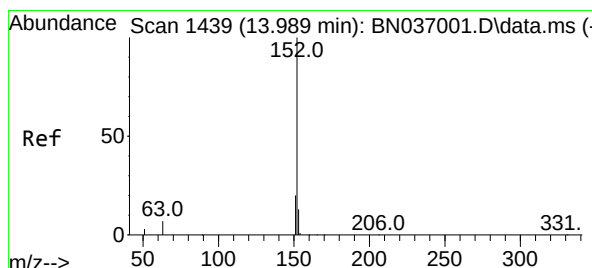
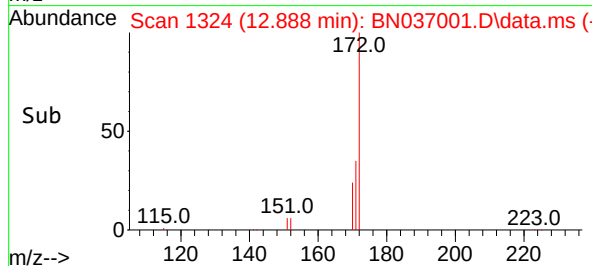
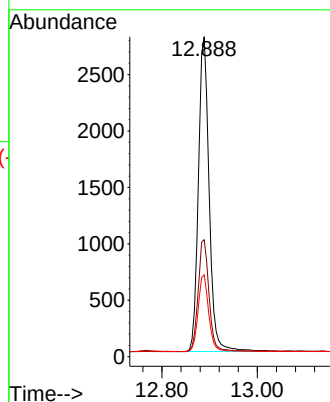
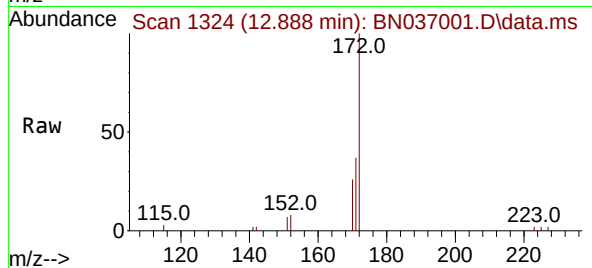
Tgt Ion:172 Resp: 4870

Ion Ratio Lower Upper

172 100

171 36.5 29.2 43.8

170 25.6 20.5 30.7



#16

Acenaphthylene

Concen: 0.389 ng

RT: 13.989 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

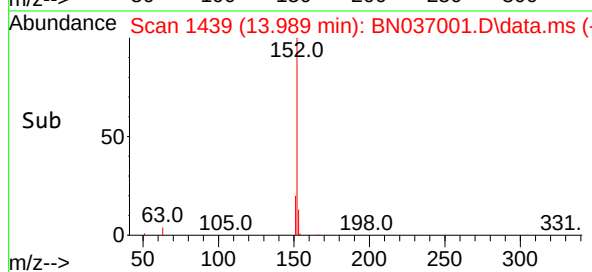
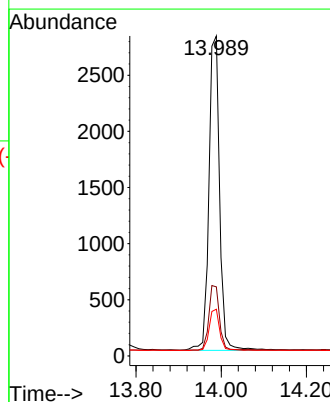
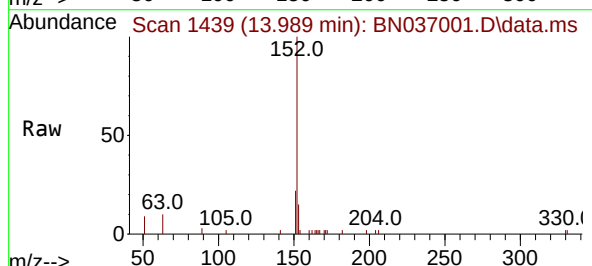
Tgt Ion:152 Resp: 4852

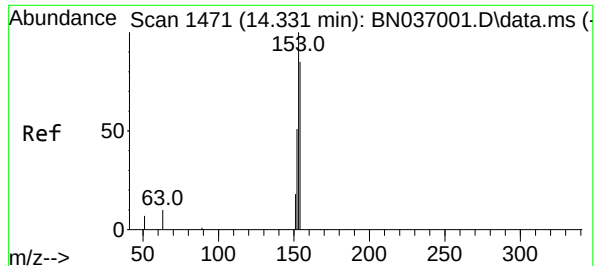
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.391 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

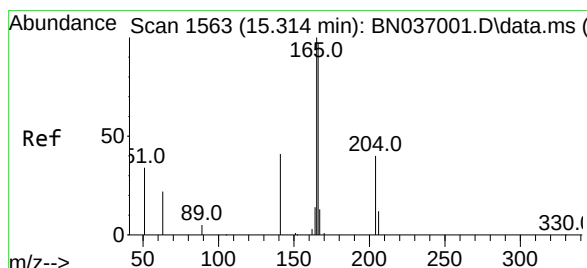
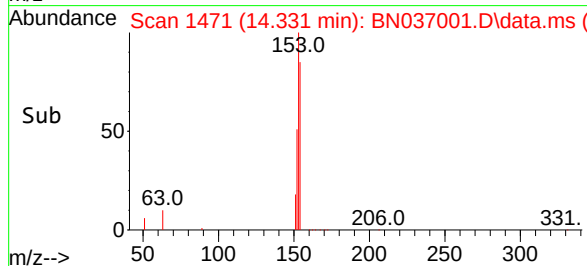
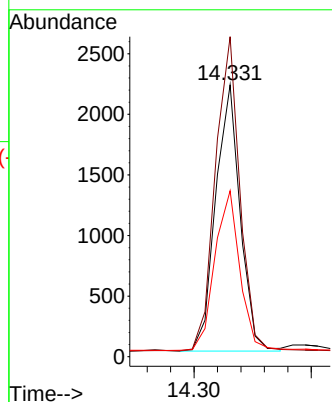
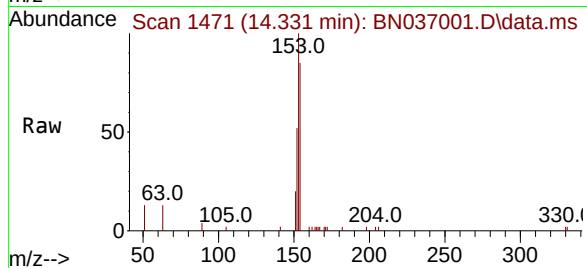
Tgt Ion:154 Resp: 3184

Ion Ratio Lower Upper

154 100

153 117.8 94.2 141.4

152 61.7 49.4 74.0



#18

Fluorene

Concen: 0.392 ng

RT: 15.314 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

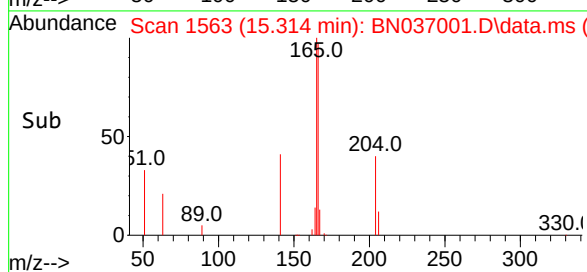
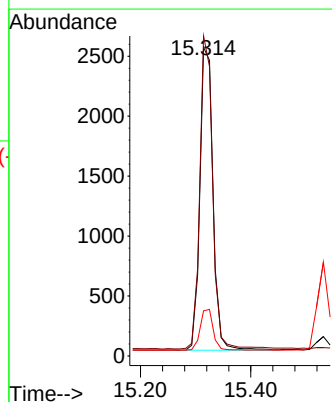
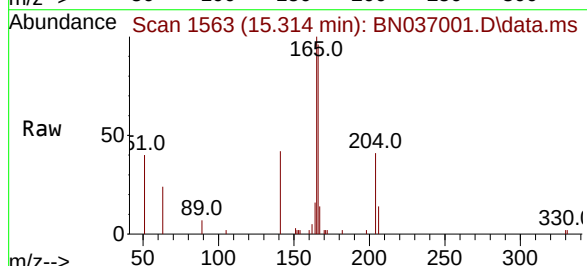
Tgt Ion:166 Resp: 4190

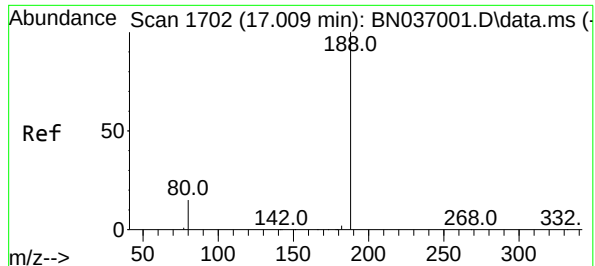
Ion Ratio Lower Upper

166 100

165 100.7 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

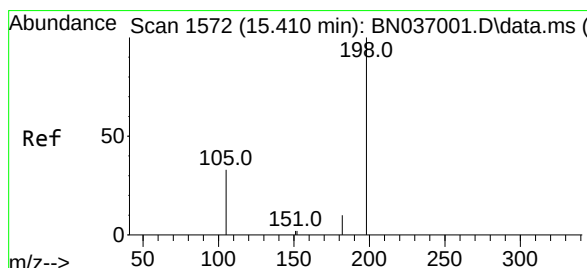
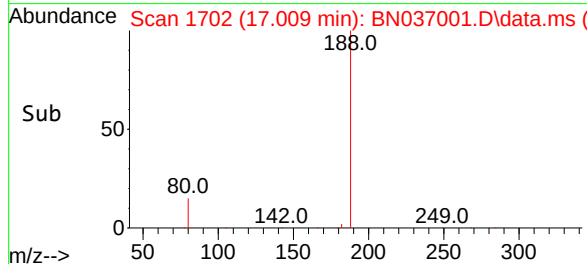
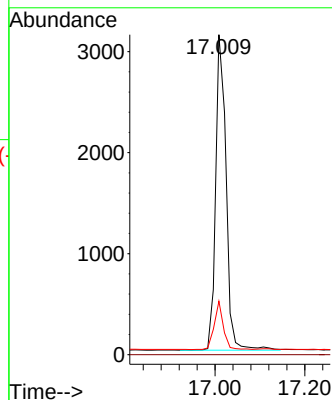
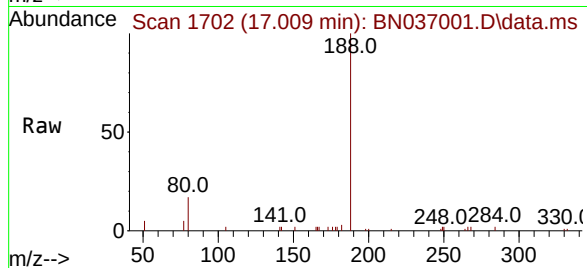
Tgt Ion:188 Resp: 5005

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.377 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

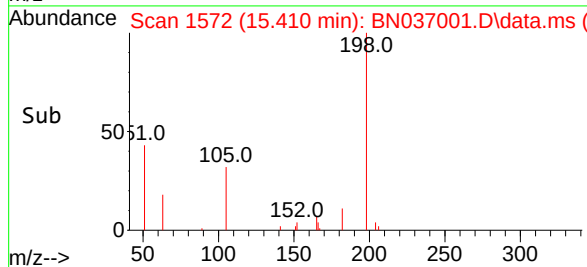
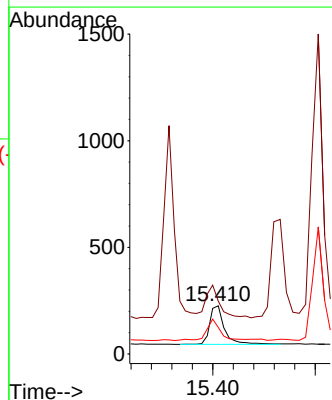
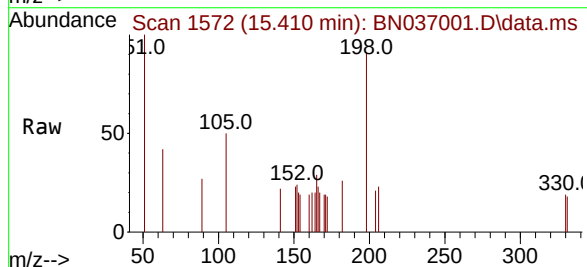
Tgt Ion:198 Resp: 367

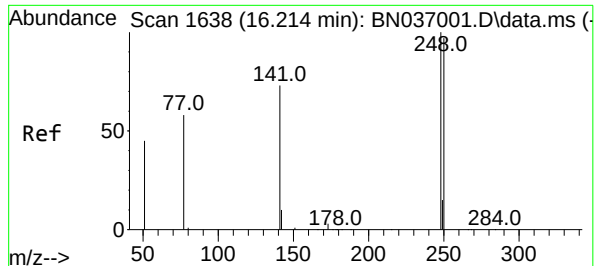
Ion Ratio Lower Upper

198 100

51 109.7 87.8 131.6

105 55.3 44.2 66.4

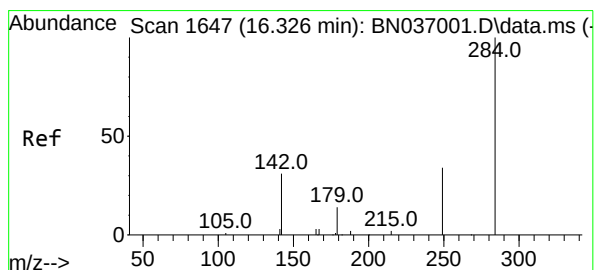
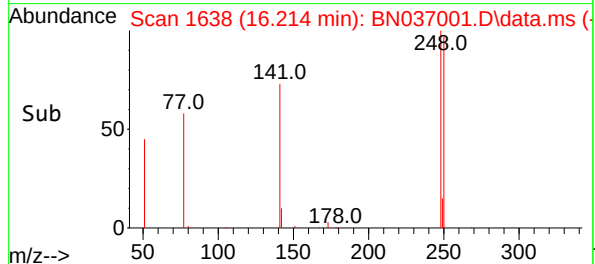
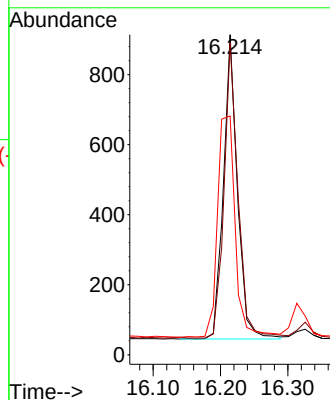
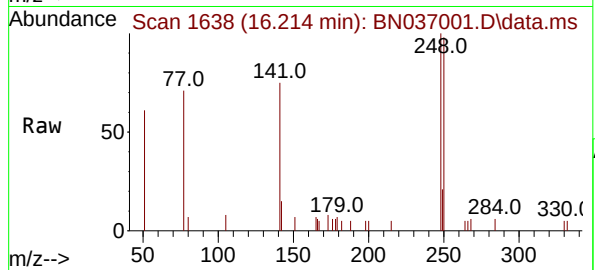




#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

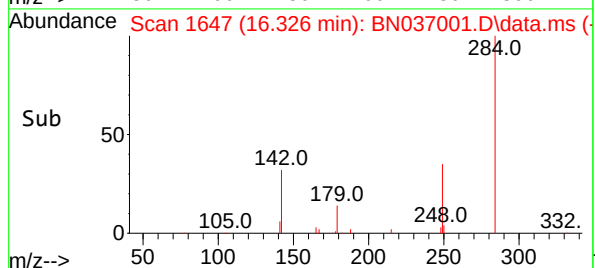
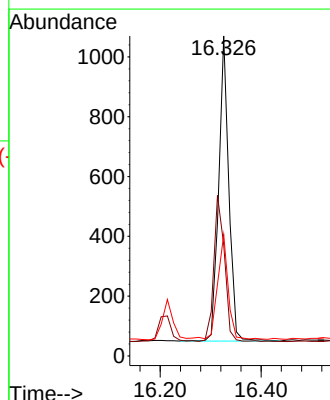
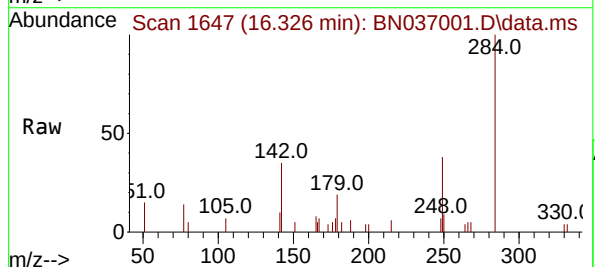
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

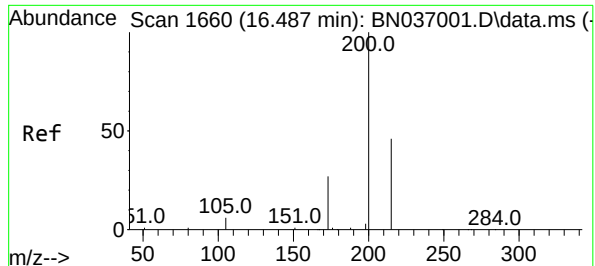
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.1	117.1
141	74.6	59.7	89.5



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	51.5	41.2	61.8
249	35.9	28.7	43.1

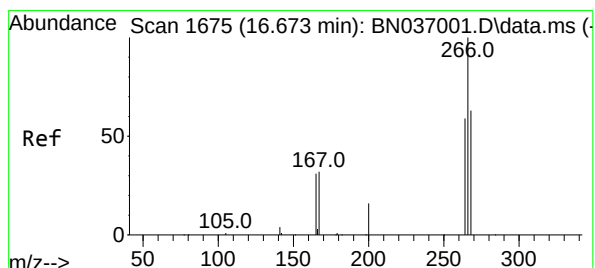
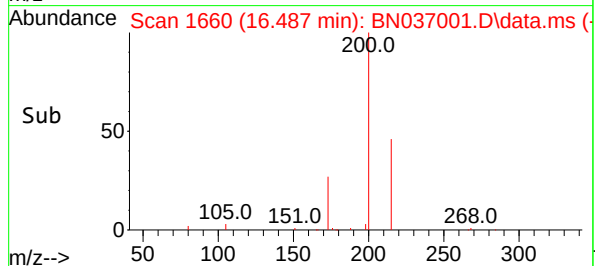
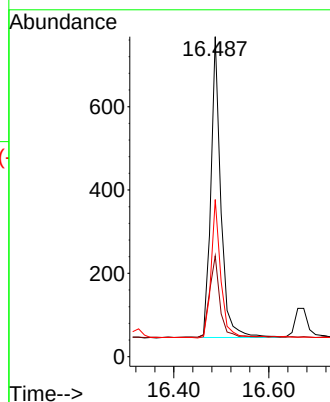
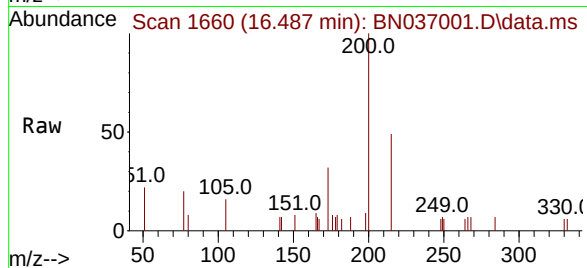




#23
Atrazine
Concen: 0.383 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

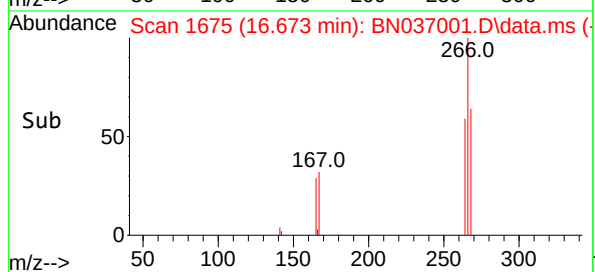
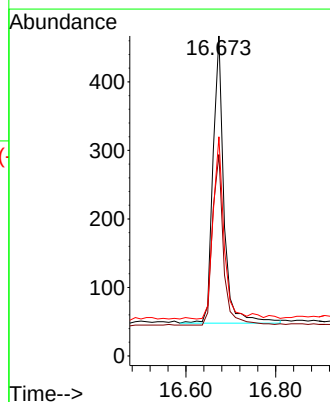
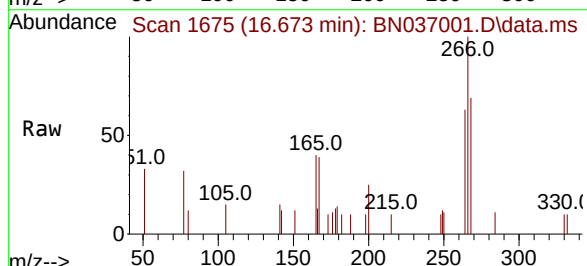
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

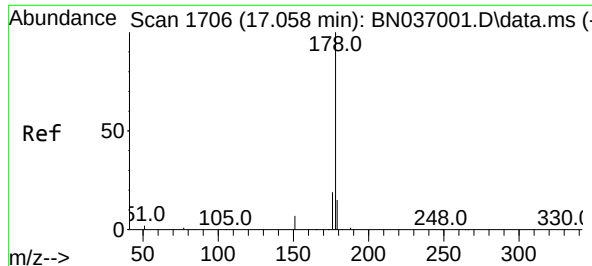
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.5	25.2	37.8
215	49.1	39.3	58.9



#24
Pentachlorophenol
Concen: 0.376 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.9	47.9	71.9
268	62.5	50.0	75.0

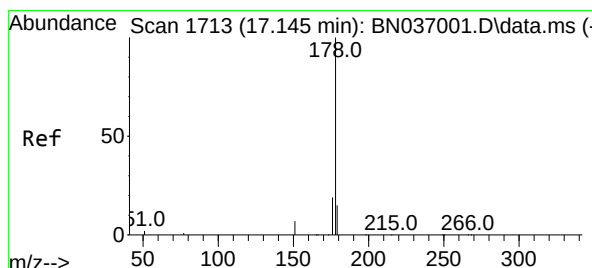
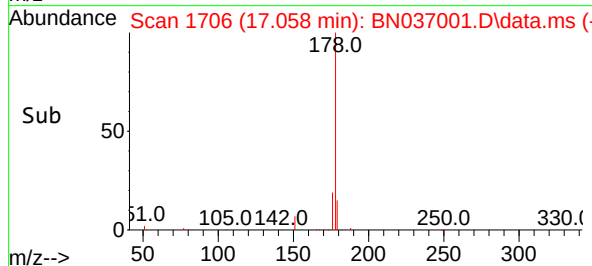
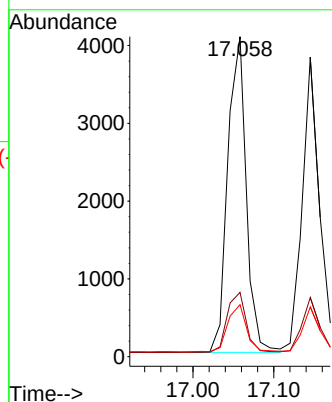
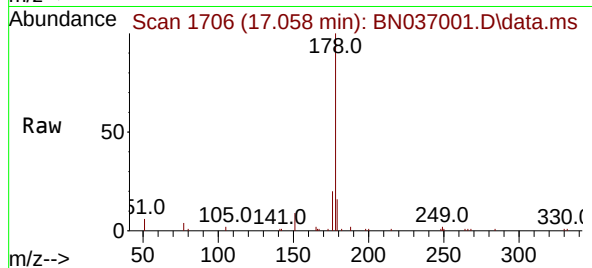




#25
Phenanthrene
Concen: 0.395 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

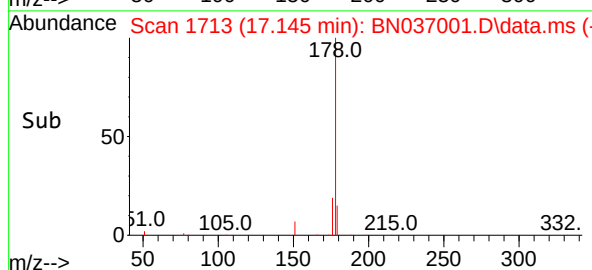
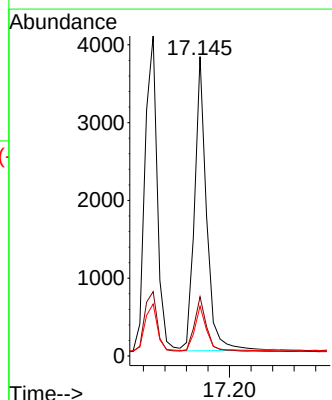
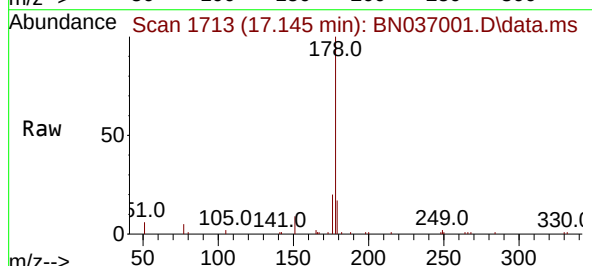
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

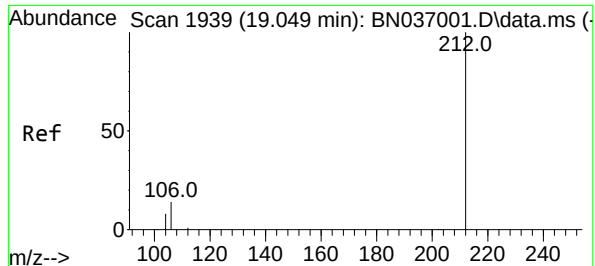
Tgt Ion:178 Resp: 6468
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.392 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:178 Resp: 5835
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

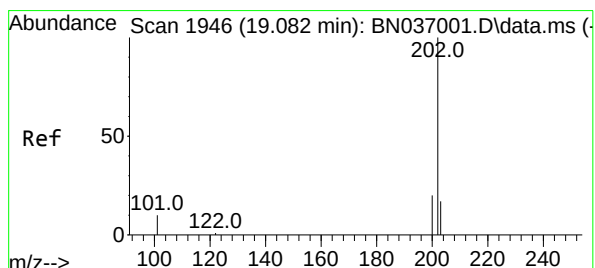
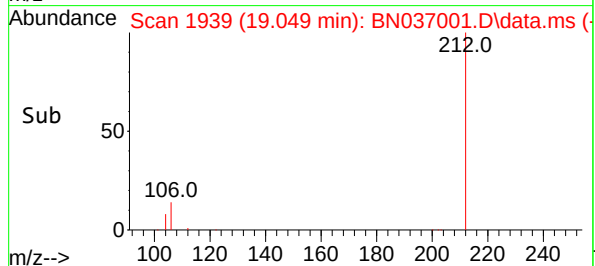
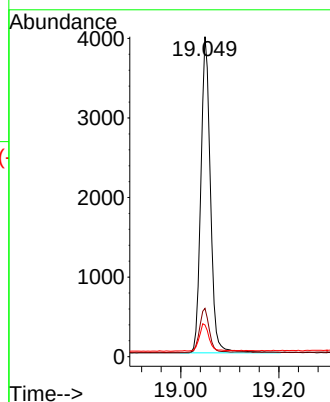
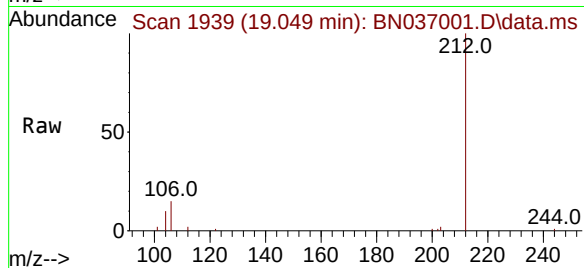
Tgt Ion:212 Resp: 5393

Ion Ratio Lower Upper

212 100

106 14.1 11.3 16.9

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.384 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

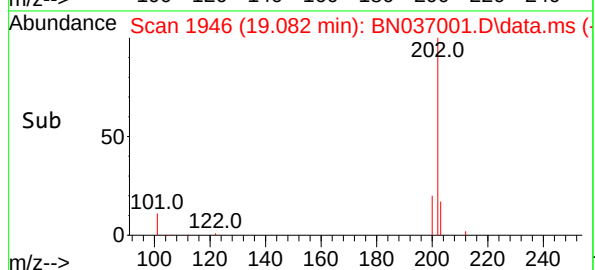
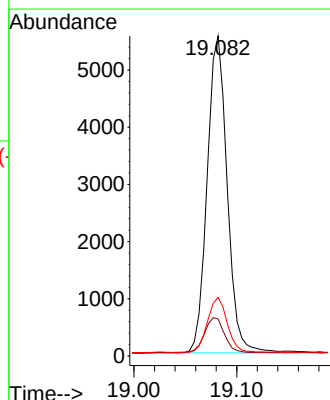
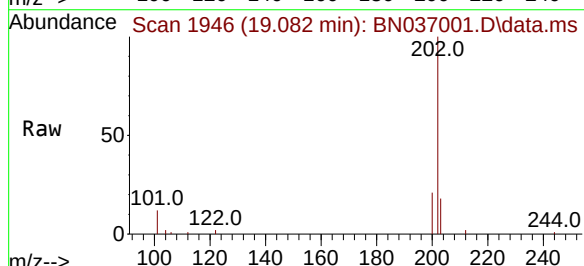
Tgt Ion:202 Resp: 7510

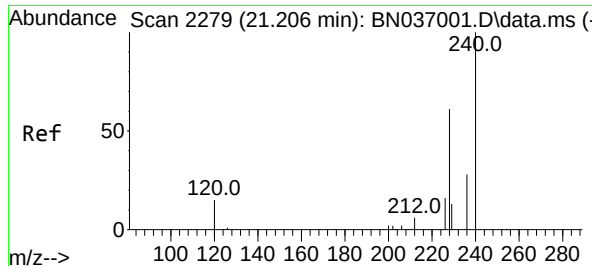
Ion Ratio Lower Upper

202 100

101 11.1 8.9 13.3

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

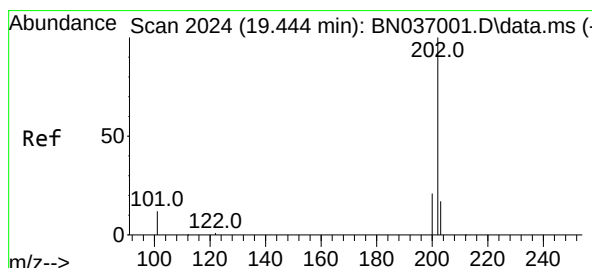
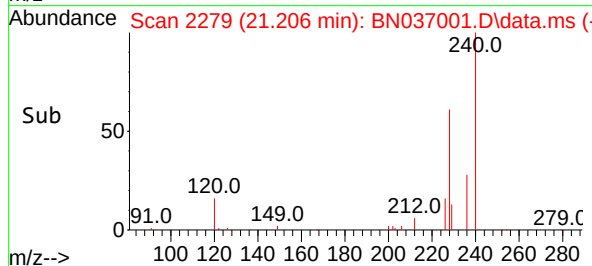
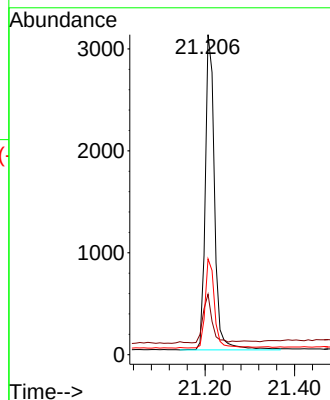
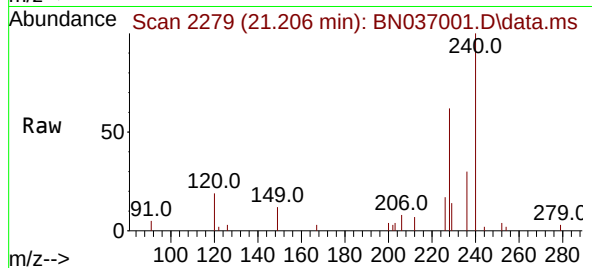
Tgt Ion:240 Resp: 4458

Ion Ratio Lower Upper

240 100

120 18.9 15.1 22.7

236 30.0 24.0 36.0



#30

Pyrene

Concen: 0.404 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

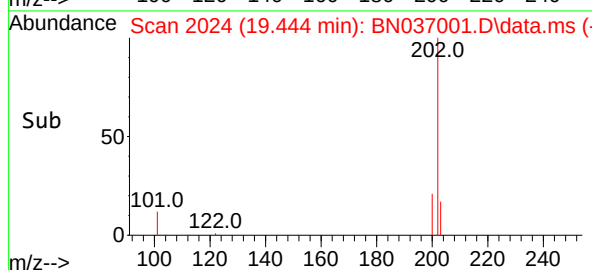
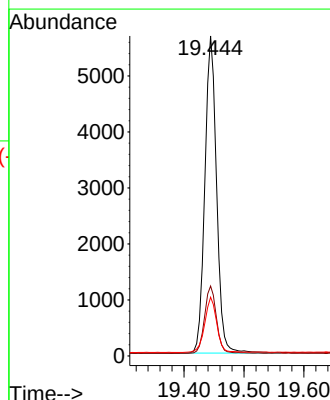
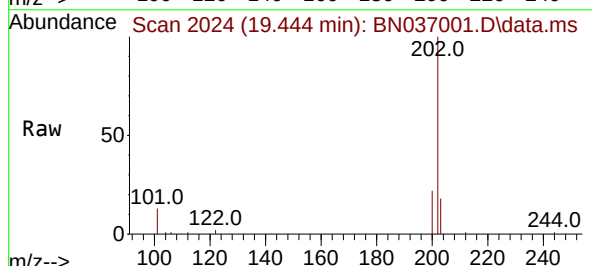
Tgt Ion:202 Resp: 7697

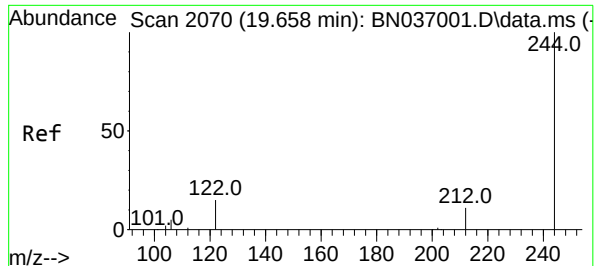
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.8 14.2 21.4





#31

Terphenyl-d14

Concen: 0.407 ng

RT: 19.658 min Scan# 2070

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

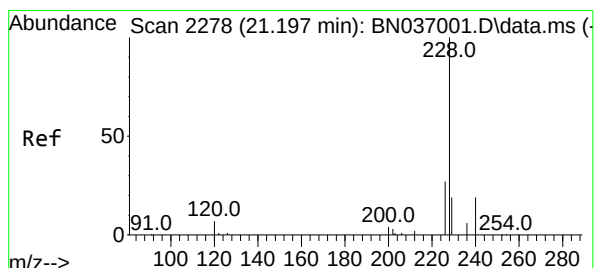
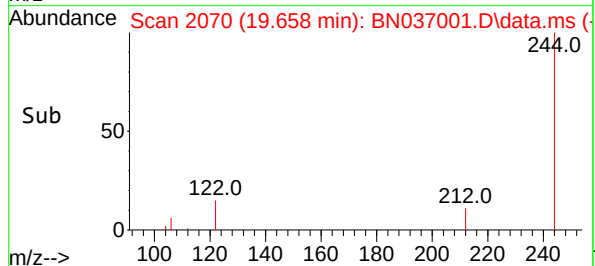
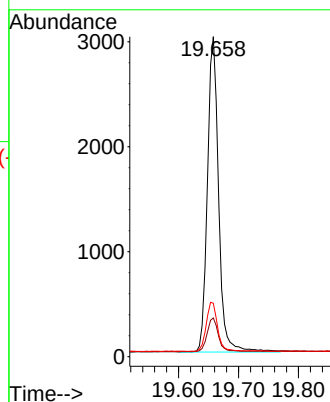
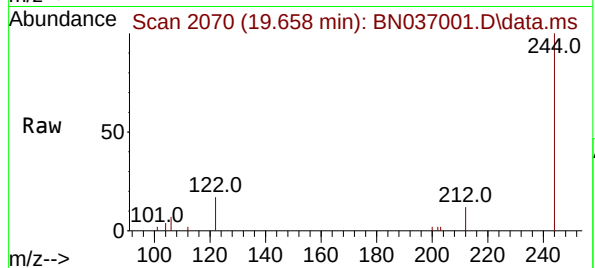
Tgt Ion:244 Resp: 3883

Ion Ratio Lower Upper

244 100

212 12.1 9.7 14.5

122 16.7 13.4 20.0



#32

Benzo(a)anthracene

Concen: 0.394 ng

RT: 21.197 min Scan# 2278

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

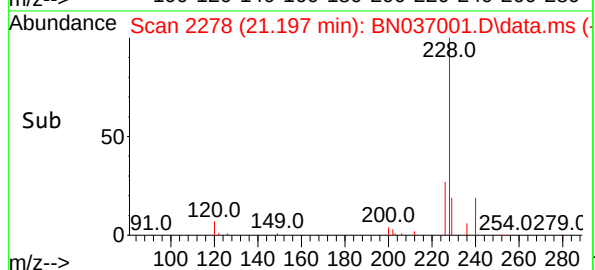
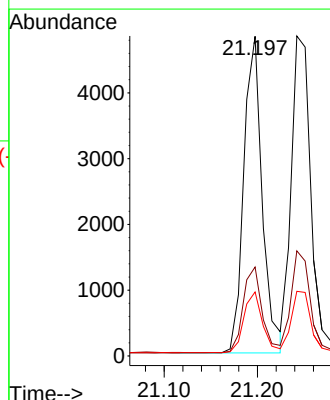
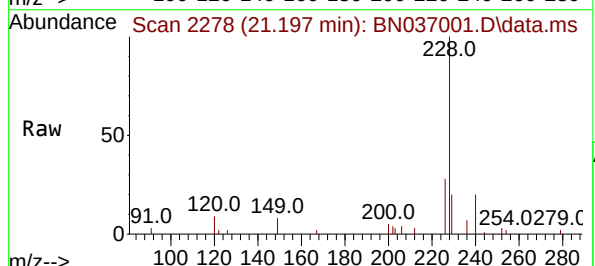
Tgt Ion:228 Resp: 6620

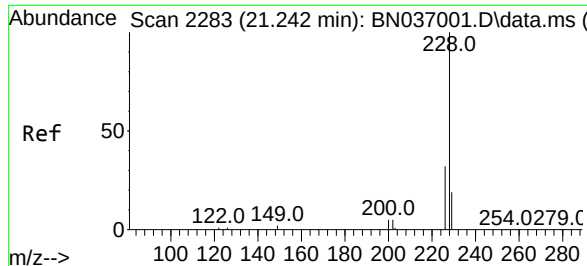
Ion Ratio Lower Upper

228 100

226 27.8 22.2 33.4

229 20.0 16.0 24.0





#33

Chrysene

Concen: 0.406 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

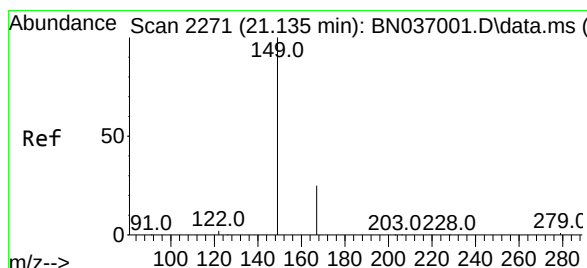
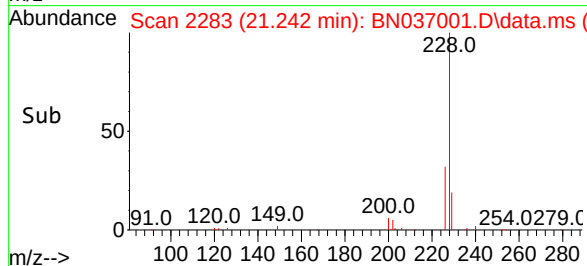
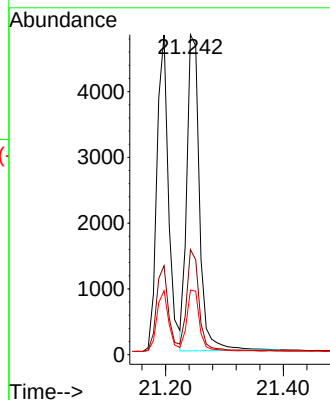
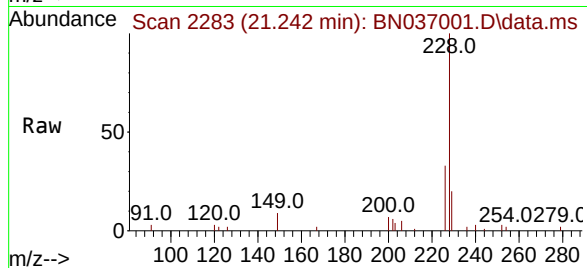
Tgt Ion:228 Resp: 7204

Ion Ratio Lower Upper

228 100

226 32.9 26.3 39.5

229 20.2 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.390 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

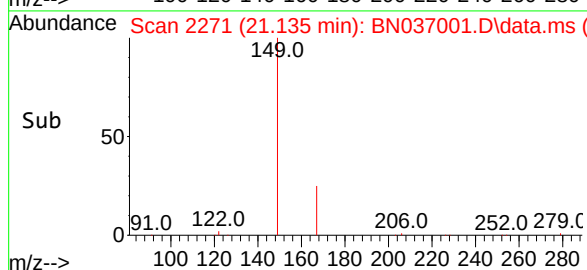
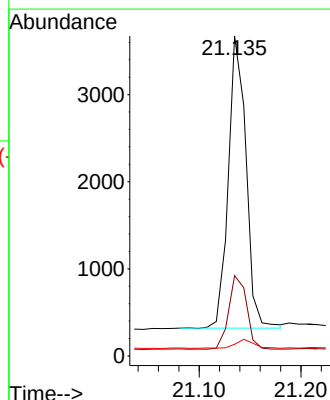
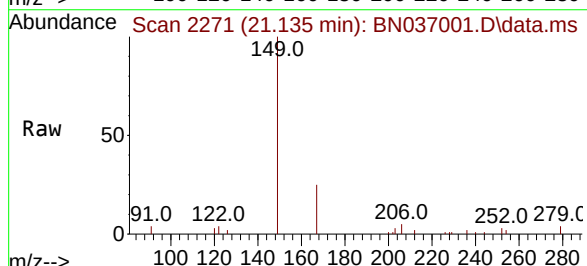
Tgt Ion:149 Resp: 4039

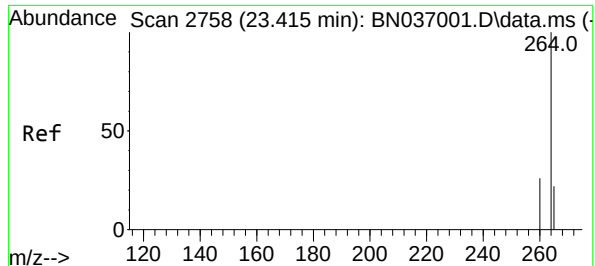
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 3.2 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

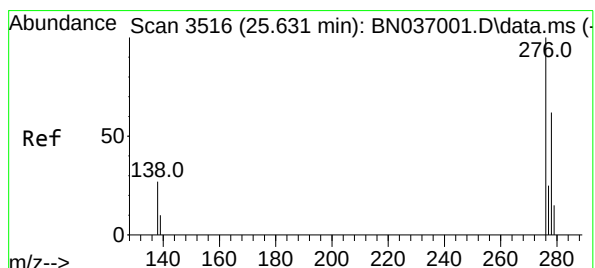
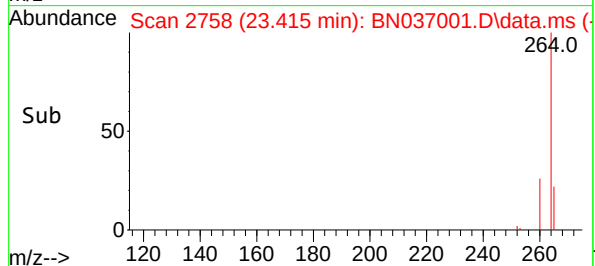
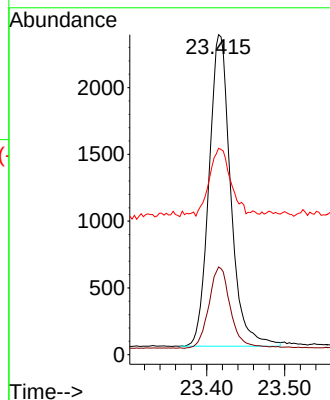
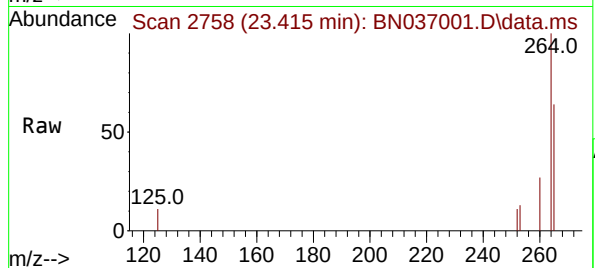
Tgt Ion:264 Resp: 4521

Ion Ratio Lower Upper

264 100

260 27.4 21.9 32.9

265 64.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.403 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

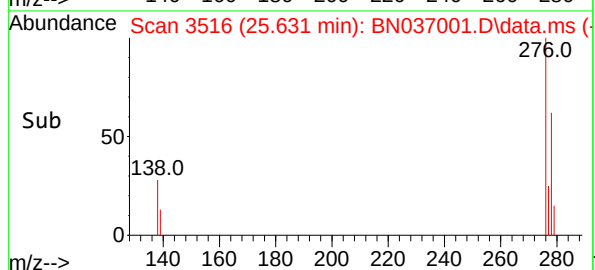
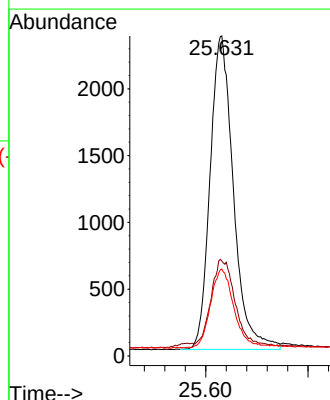
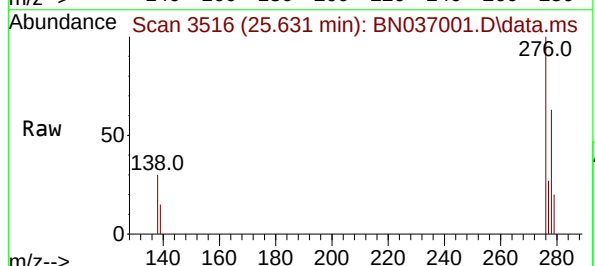
Tgt Ion:276 Resp: 7438

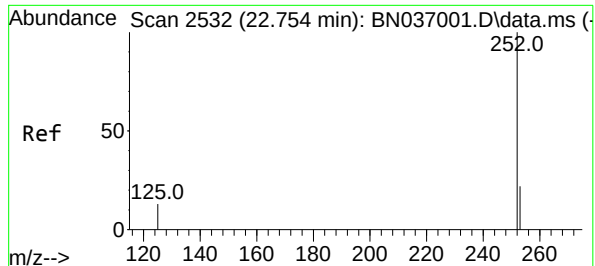
Ion Ratio Lower Upper

276 100

138 28.4 22.7 34.1

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.386 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

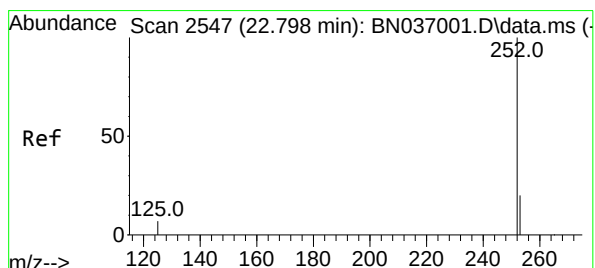
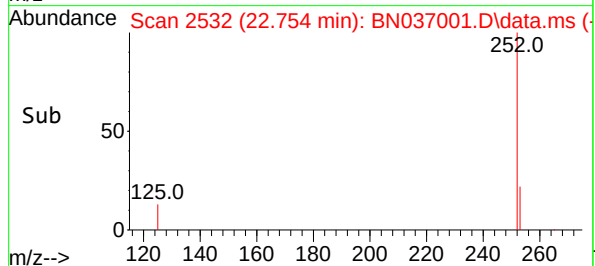
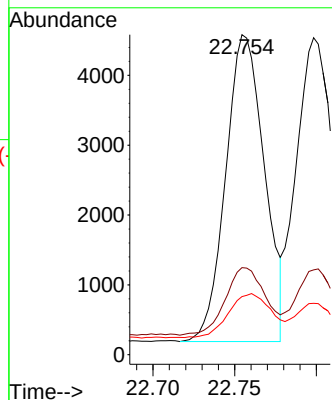
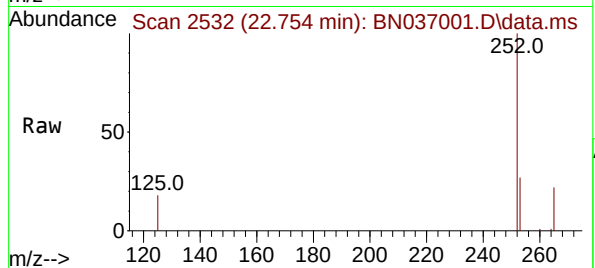
Tgt Ion:252 Resp: 7242

Ion Ratio Lower Upper

252 100

253 27.2 21.8 32.6

125 18.2 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

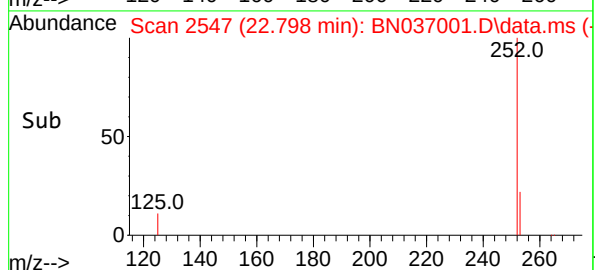
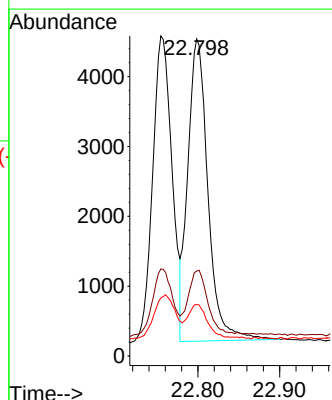
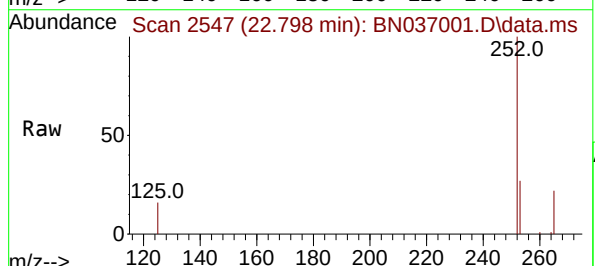
Tgt Ion:252 Resp: 7424

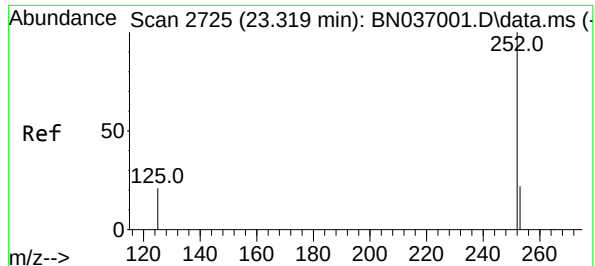
Ion Ratio Lower Upper

252 100

253 26.8 21.4 32.2

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

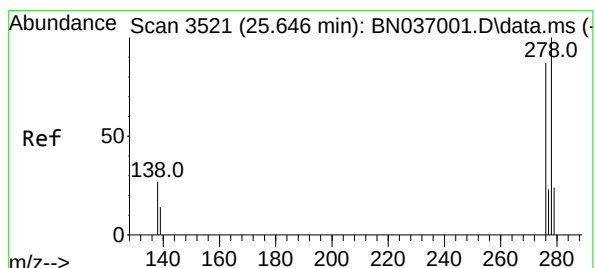
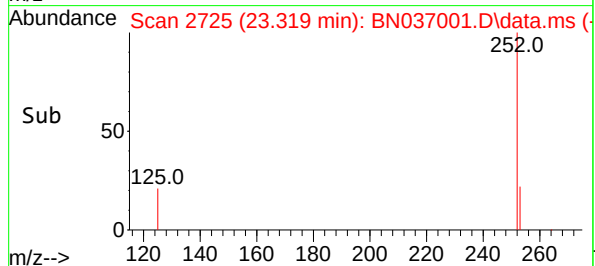
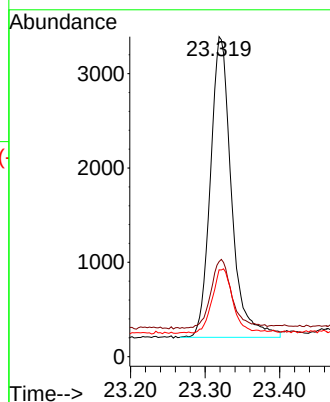
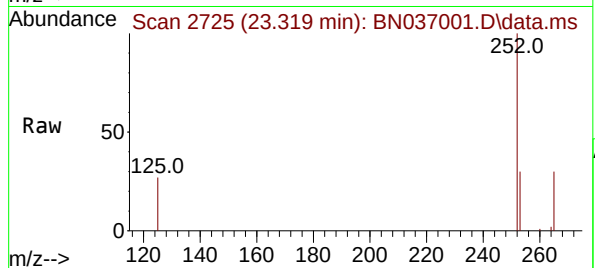
Tgt Ion:252 Resp: 6245

Ion Ratio Lower Upper

252 100

253 29.7 23.8 35.6

125 27.2 21.8 32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.400 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

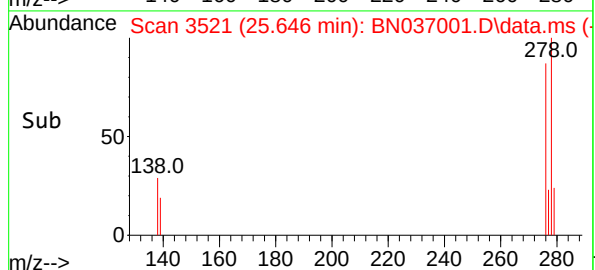
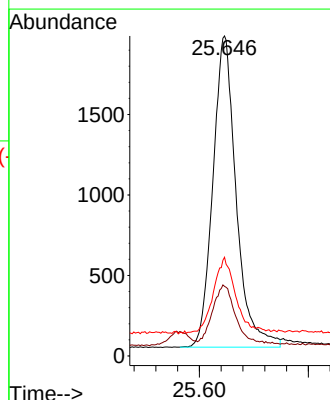
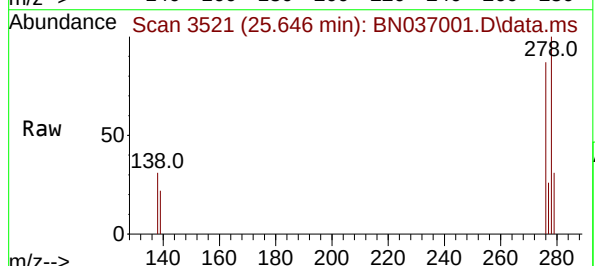
Tgt Ion:278 Resp: 5753

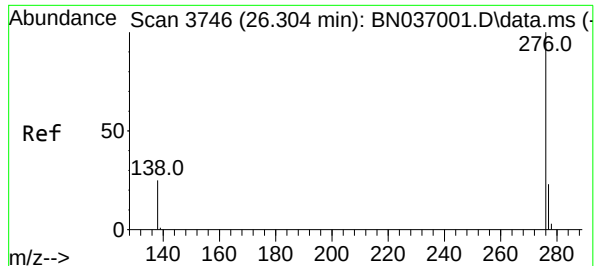
Ion Ratio Lower Upper

278 100

139 21.7 17.4 26.0

279 30.8 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037001.D

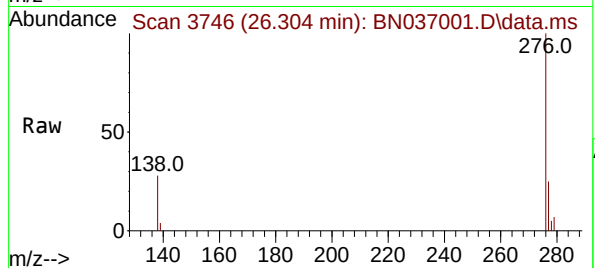
Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



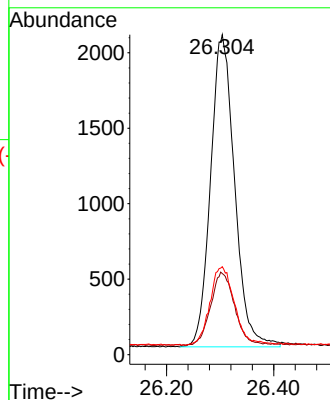
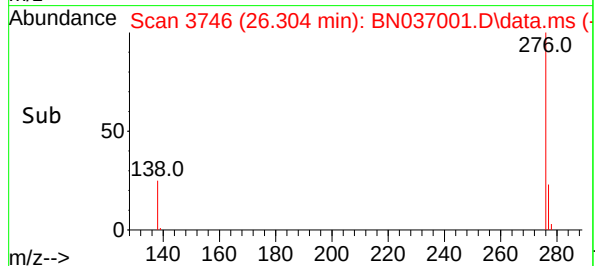
Tgt Ion:276 Resp: 6438

Ion Ratio Lower Upper

276 100

277 25.3 20.2 30.4

138 27.5 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037002.D
 Acq On : 13 May 2025 19:29
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: May 14 11:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

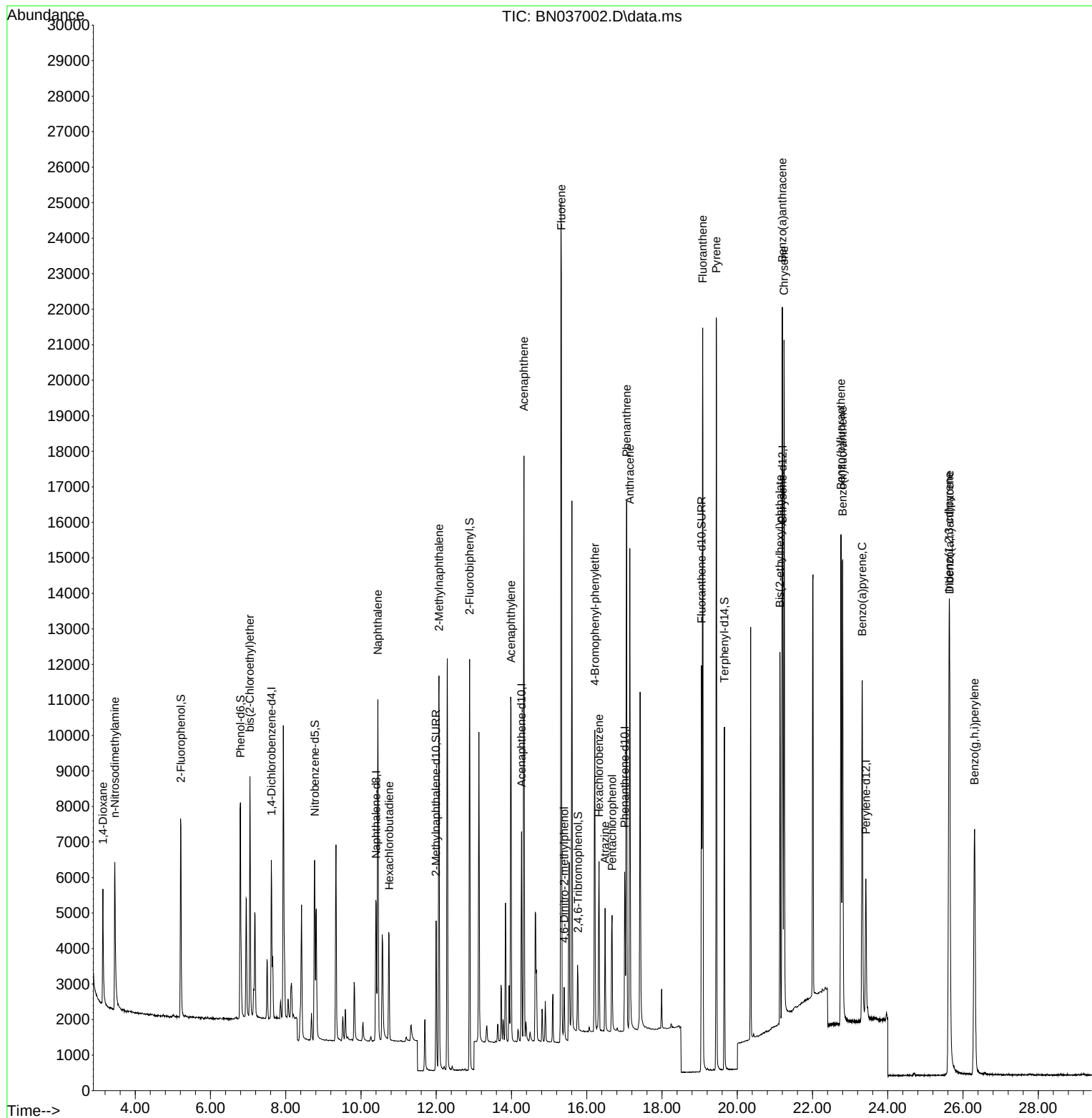
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2018	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5326	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	3047	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	5996	0.400	ng	0.00
29) Chrysene-d12	21.207	240	5456	0.400	ng	0.00
35) Perylene-d12	23.418	264	5077	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	4133	0.782	ng	0.00
5) Phenol-d6	6.795	99	4989	0.754	ng	0.00
8) Nitrobenzene-d5	8.771	82	4266	0.736	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	5833	0.778	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	972	0.726	ng	0.00
15) 2-Fluorobiphenyl	12.889	172	10981	0.787	ng	0.00
27) Fluoranthene-d10	19.054	212	12492	0.760	ng	0.00
31) Terphenyl-d14	19.658	244	8975	0.769	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.141	88	1965	0.794	ng	97
3) n-Nitrosodimethylamine	3.458	42	3920	0.737	ng	# 94
6) bis(2-Chloroethyl)ether	7.048	93	4579	0.752	ng	99
9) Naphthalene	10.447	128	11949	0.759	ng	97
10) Hexachlorobutadiene	10.746	225	2502	0.757	ng	# 100
12) 2-Methylnaphthalene	12.072	142	7803	0.771	ng	98
16) Acenaphthylene	13.989	152	11268	0.760	ng	100
17) Acenaphthene	14.331	154	7416	0.765	ng	99
18) Fluorene	15.325	166	9818	0.772	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	946	0.760	ng	90
21) 4-Bromophenyl-phenylether	16.214	248	2963	0.782	ng	95
22) Hexachlorobenzene	16.326	284	3104	0.766	ng	97
23) Atrazine	16.487	200	2560	0.775	ng	92
24) Pentachlorophenol	16.674	266	1644	0.730	ng	97
25) Phenanthrene	17.058	178	15146	0.773	ng	100
26) Anthracene	17.145	178	13548	0.760	ng	99
28) Fluoranthene	19.082	202	17938	0.766	ng	100
30) Pyrene	19.444	202	18075	0.774	ng	100
32) Benzo(a)anthracene	21.198	228	15689	0.764	ng	99
33) Chrysene	21.242	228	16717	0.769	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	9326	0.737	ng	99
36) Indeno(1,2,3-cd)pyrene	25.629	276	15921	0.768	ng	99
37) Benzo(b)fluoranthene	22.755	252	16240	0.772	ng	# 93
38) Benzo(k)fluoranthene	22.798	252	16259	0.782	ng	94
39) Benzo(a)pyrene	23.322	252	13516	0.757	ng	# 87
40) Dibenzo(a,h)anthracene	25.643	278	12556	0.777	ng	94
41) Benzo(g,h,i)perylene	26.307	276	13503	0.769	ng	98

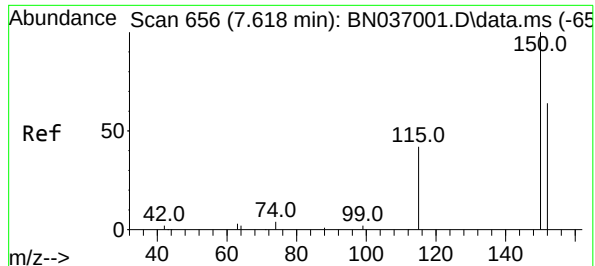
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037002.D
Acq On : 13 May 2025 19:29
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: May 14 11:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

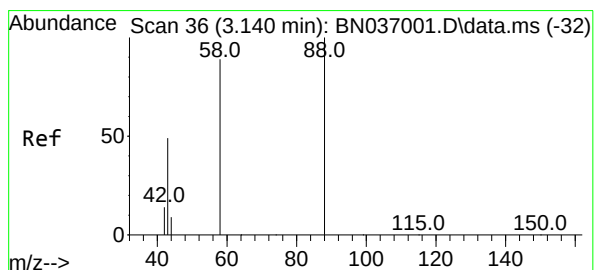
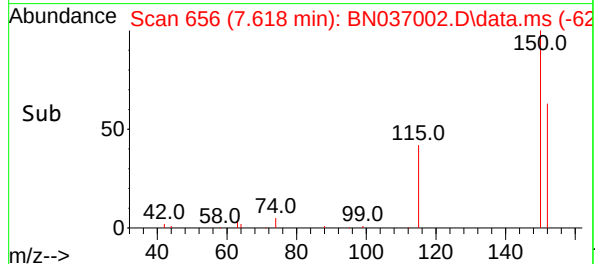
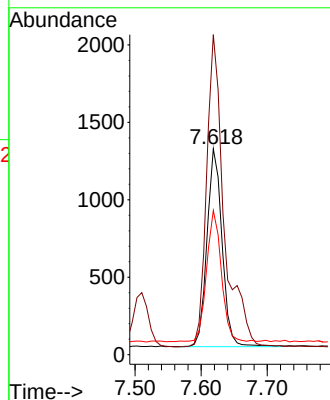
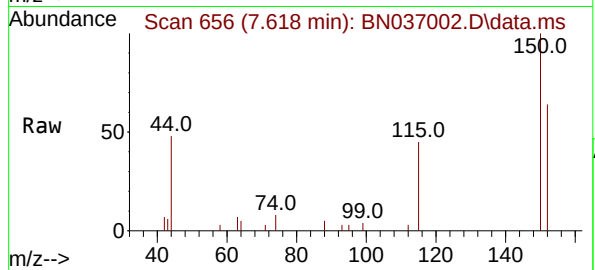




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

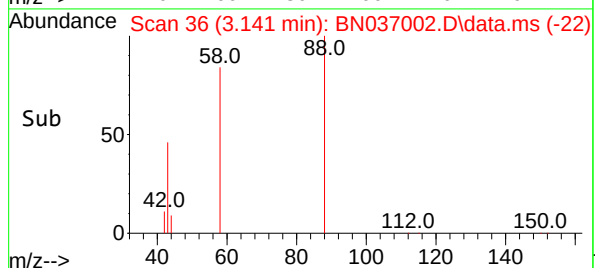
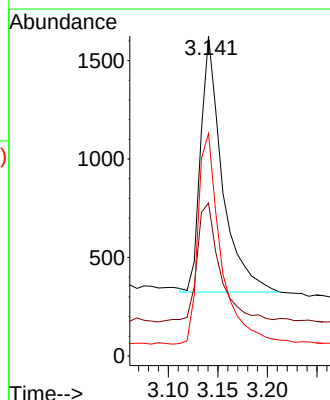
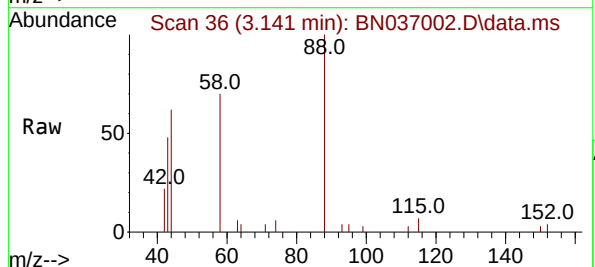
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

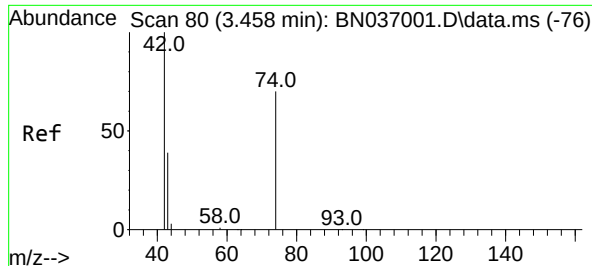
Tgt Ion:152 Resp: 2018
Ion Ratio Lower Upper
152 100
150 155.3 123.9 185.9
115 70.0 55.8 83.8



#2
1,4-Dioxane
Concen: 0.794 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 88 Resp: 1965
Ion Ratio Lower Upper
88 100
43 50.3 37.4 56.0
58 87.7 68.8 103.2

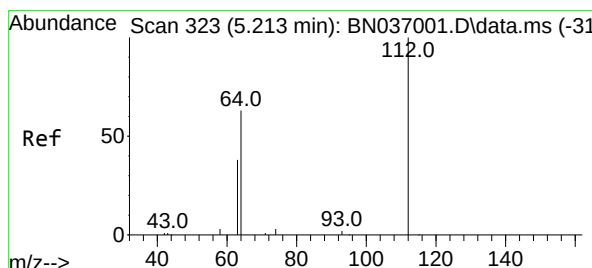
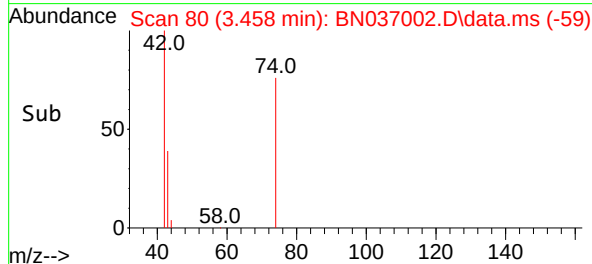
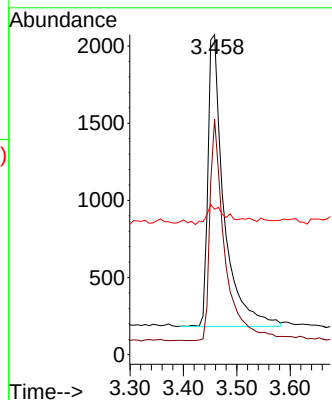
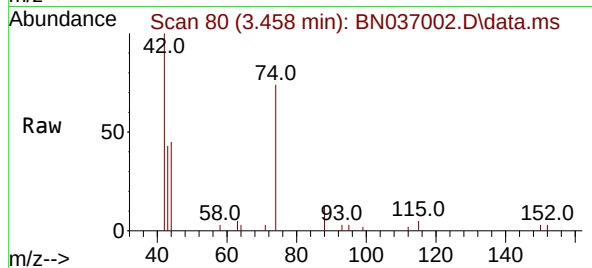




#3
n-Nitrosodimethylamine
Concen: 0.737 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

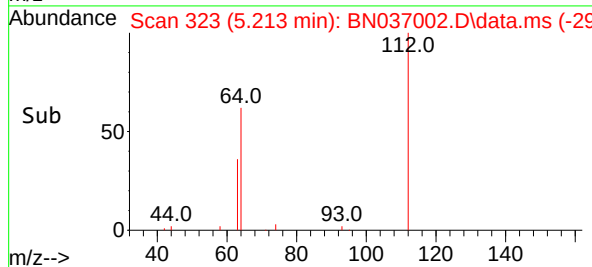
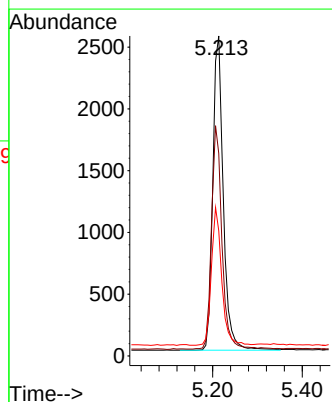
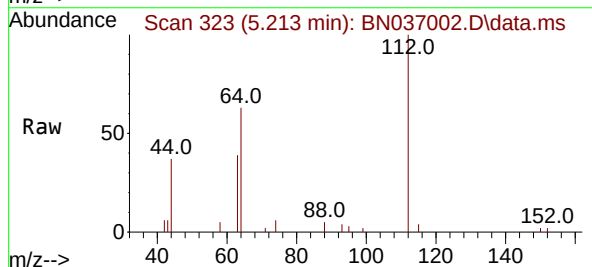
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

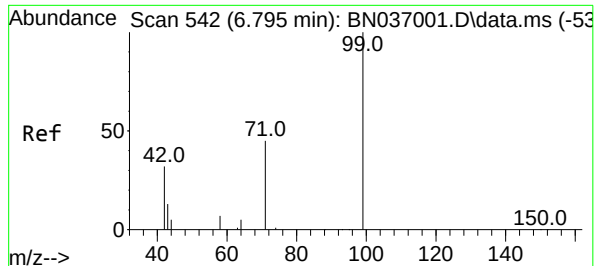
Tgt Ion: 42 Resp: 3920
Ion Ratio Lower Upper
42 100
74 71.0 59.8 89.6
44 7.7 11.9 17.9#



#4
2-Fluorophenol
Concen: 0.782 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 112 Resp: 4133
Ion Ratio Lower Upper
112 100
64 70.4 55.7 83.5
63 42.7 34.6 51.8

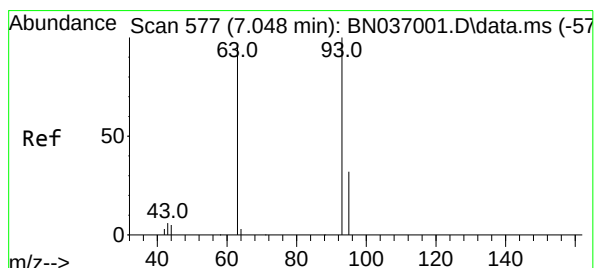
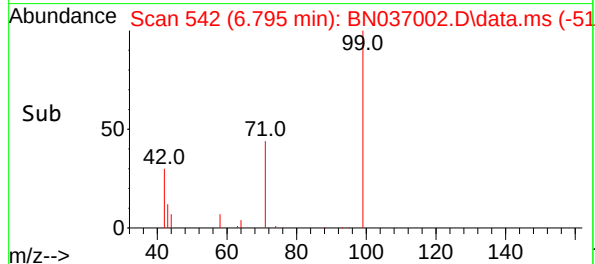
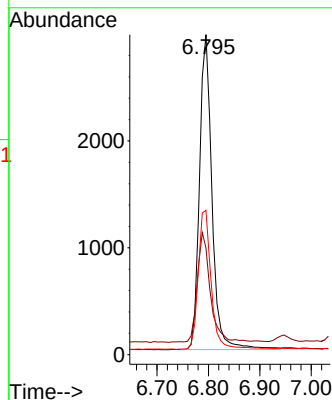
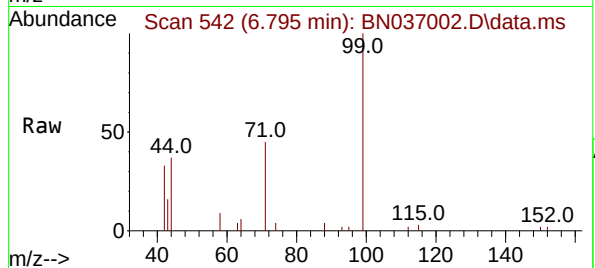




#5
Phenol-d6
Concen: 0.754 ng
RT: 6.795 min Scan# 542
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

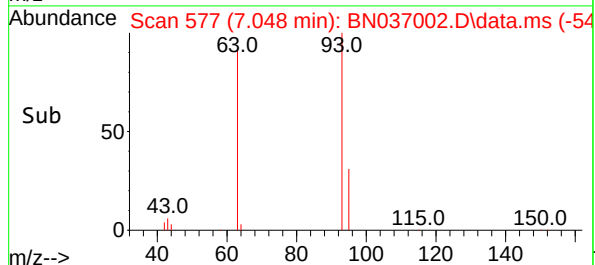
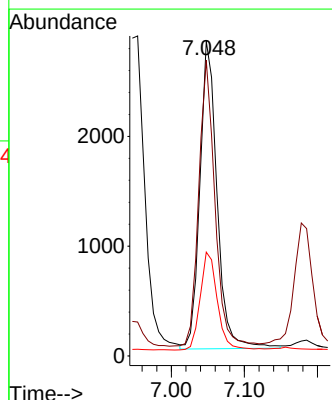
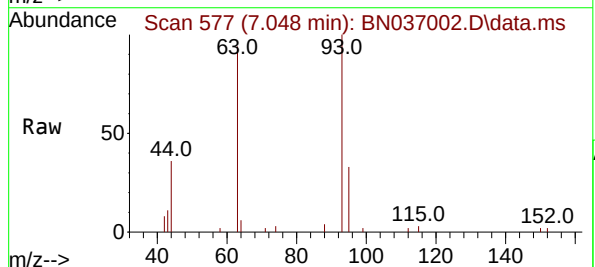
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

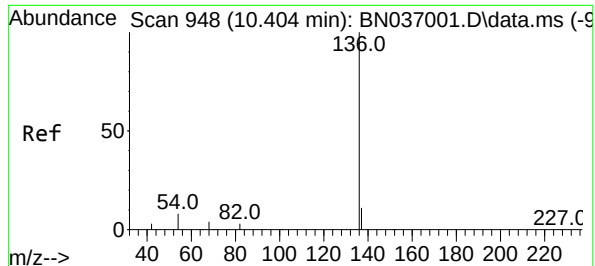
Tgt Ion: 99 Resp: 4989
Ion Ratio Lower Upper
99 100
42 36.4 29.3 43.9
71 46.4 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.752 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 93 Resp: 4579
Ion Ratio Lower Upper
93 100
63 87.2 70.1 105.1
95 32.0 26.2 39.2

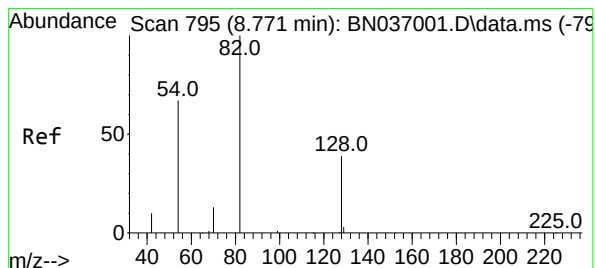
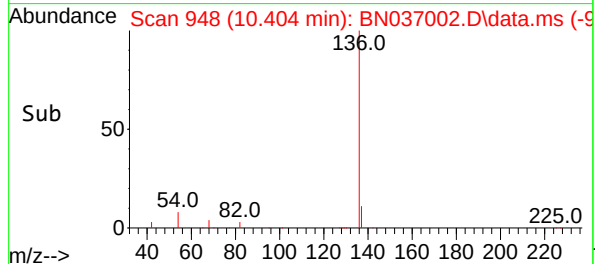
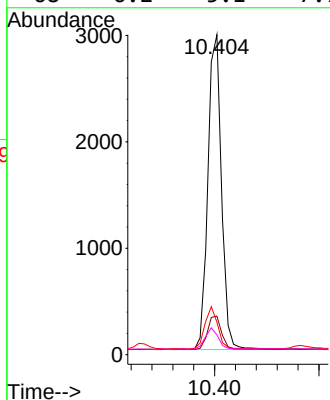
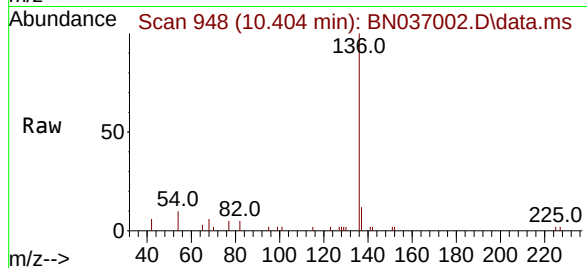




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

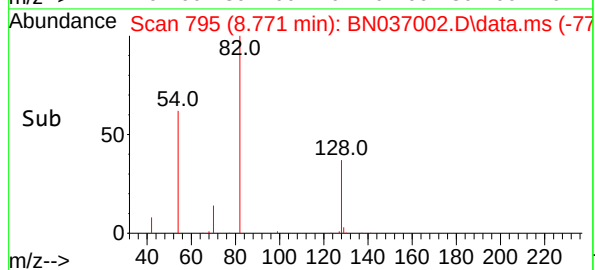
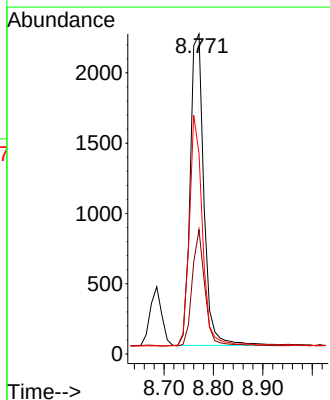
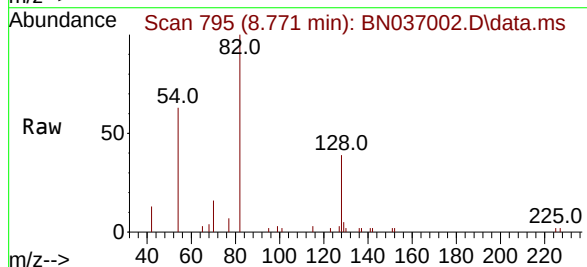
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

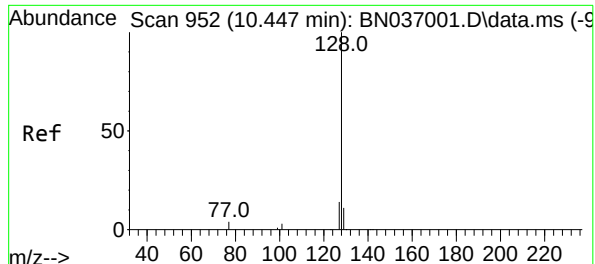
Tgt Ion:	136	Resp:	5326
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	10.1	8.5	12.7
68	6.2	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.736 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:	82	Resp:	4266
Ion	Ratio	Lower	Upper
82	100		
128	38.9	34.0	51.0
54	62.7	55.0	82.4





#9

Naphthalene

Concen: 0.759 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

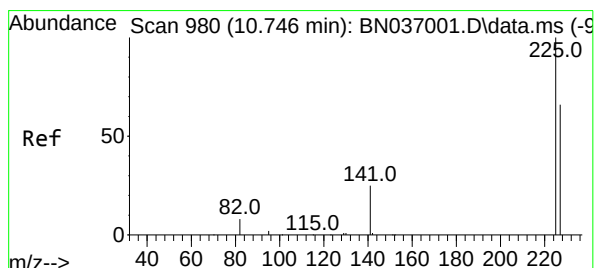
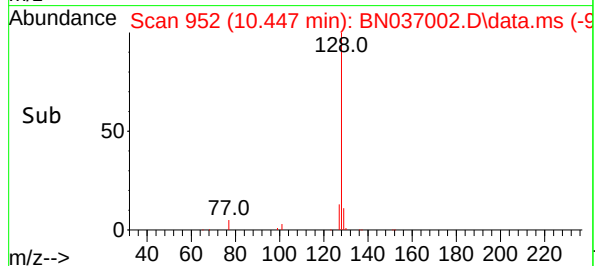
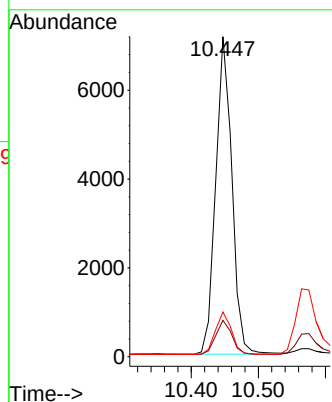
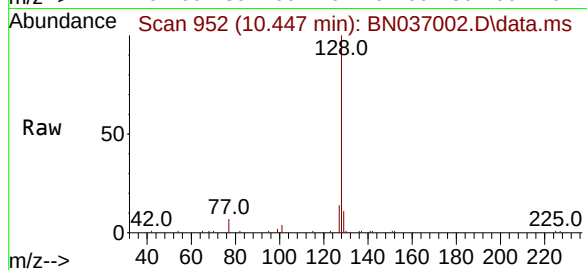
Tgt Ion:128 Resp: 11949

Ion Ratio Lower Upper

128 100

129 11.3 9.7 14.5

127 14.0 12.4 18.6



#10

Hexachlorobutadiene

Concen: 0.757 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

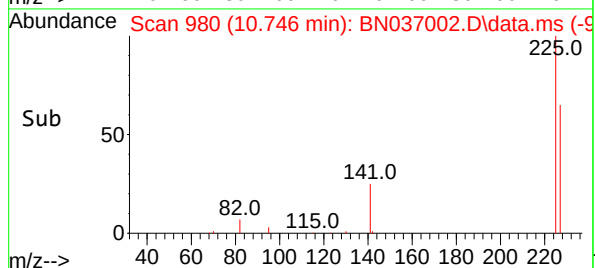
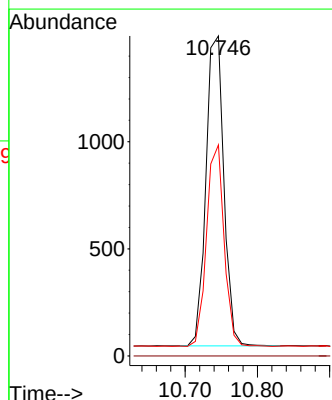
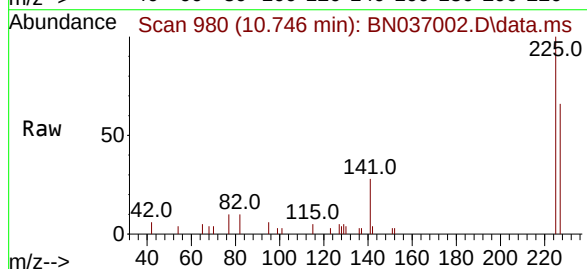
Tgt Ion:225 Resp: 2502

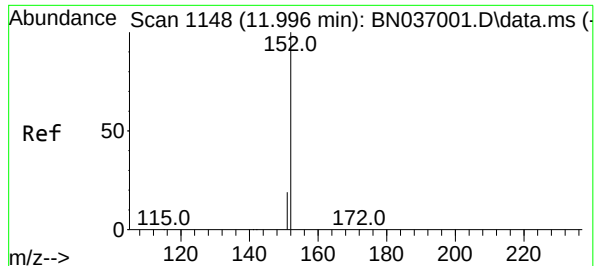
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 50.9 76.3

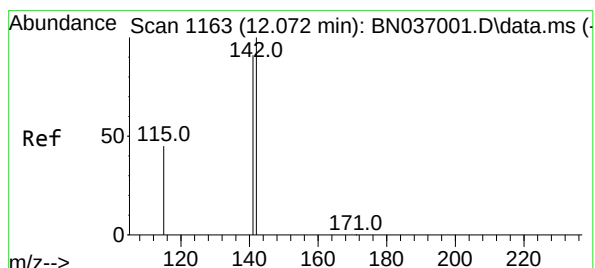
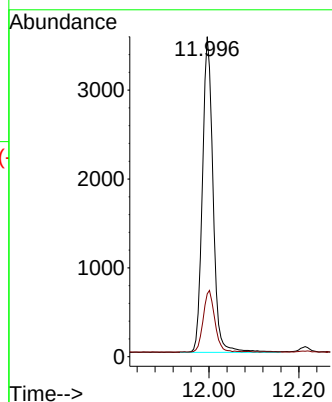
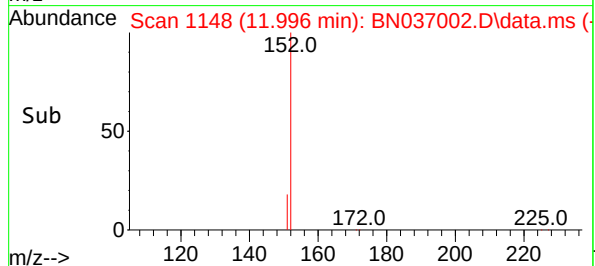
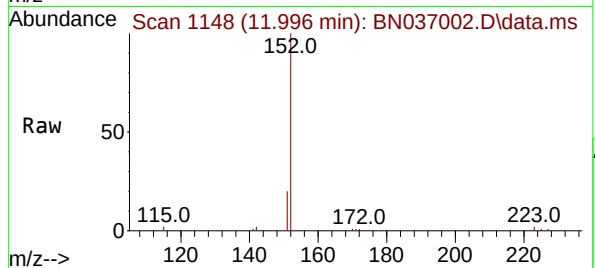




#11
2-Methylnaphthalene-d10
Concen: 0.778 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

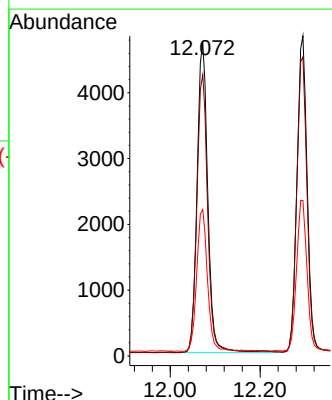
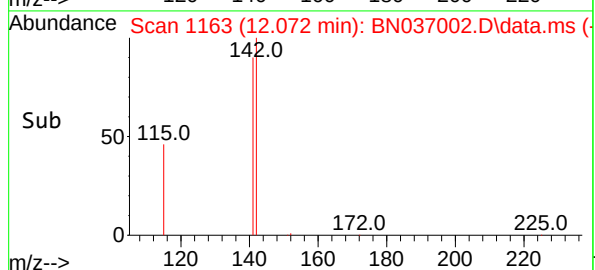
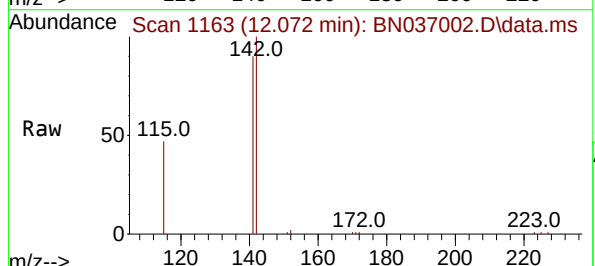
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

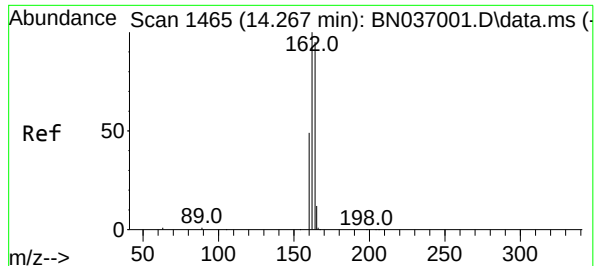
Tgt Ion:152 Resp: 5833
Ion Ratio Lower Upper
152 100
151 21.2 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.771 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:142 Resp: 7803
Ion Ratio Lower Upper
142 100
141 89.7 73.3 109.9
115 46.7 38.4 57.6

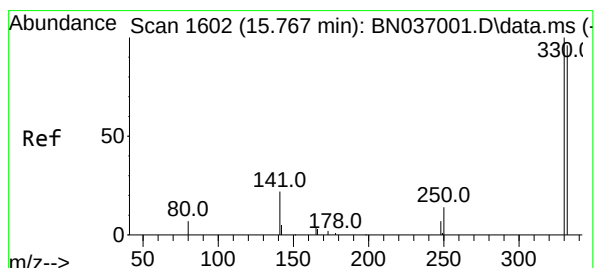
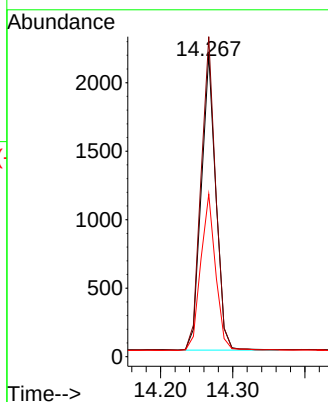
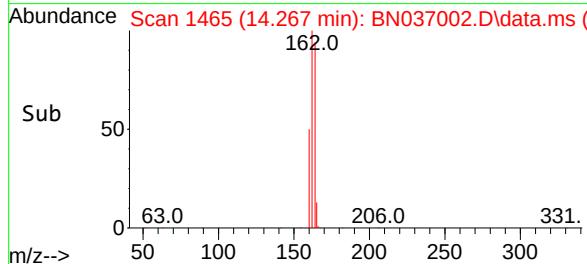
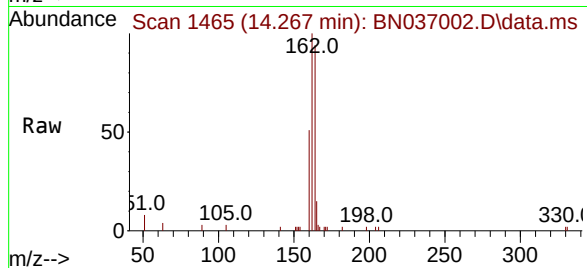




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

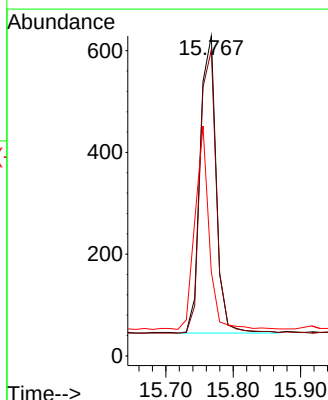
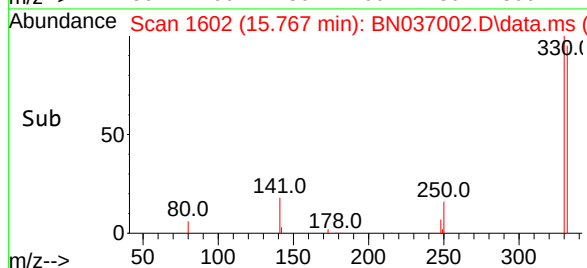
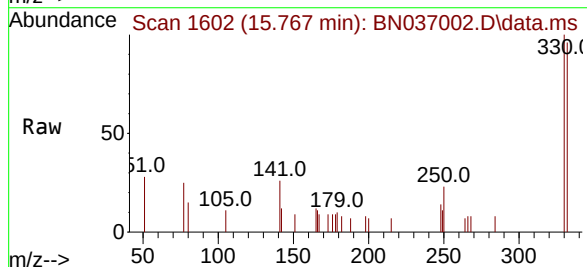
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

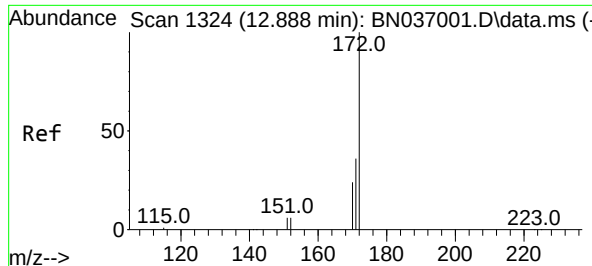
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.2	126.4
160	53.8	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 0.726 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.1	73.8	110.8
141	60.8	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 0.787 ng

RT: 12.889 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

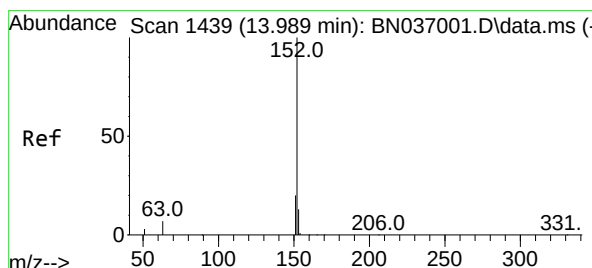
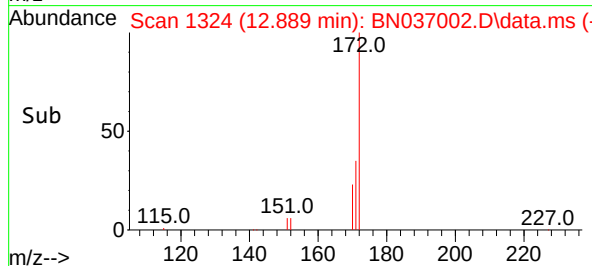
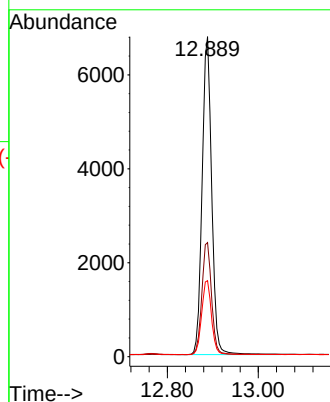
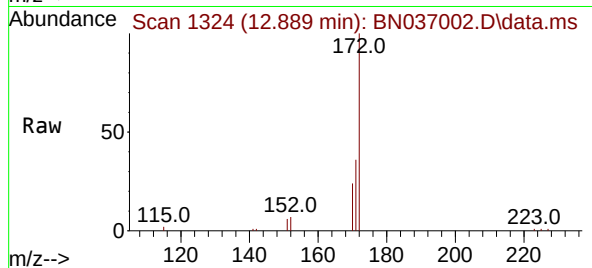
Tgt Ion:172 Resp: 10981

Ion Ratio Lower Upper

172 100

171 35.6 29.2 43.8

170 23.8 20.5 30.7



#16

Acenaphthylene

Concen: 0.760 ng

RT: 13.989 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

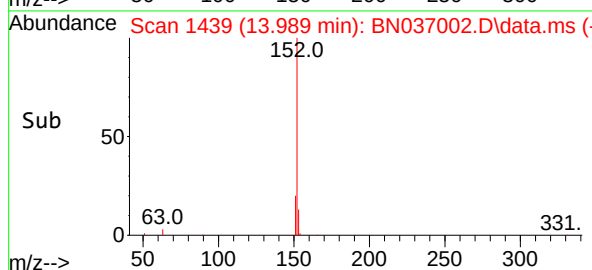
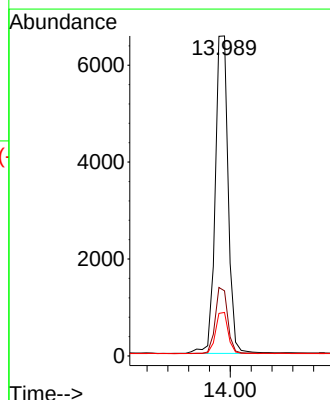
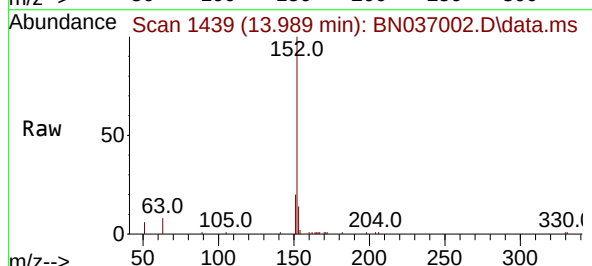
Tgt Ion:152 Resp: 11268

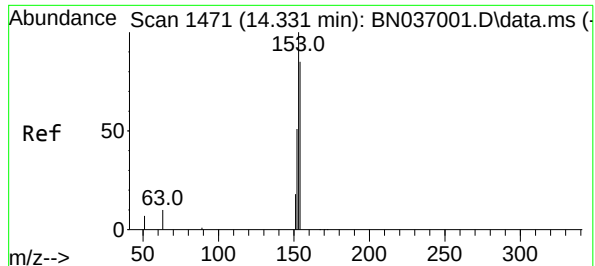
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 12.8 10.5 15.7

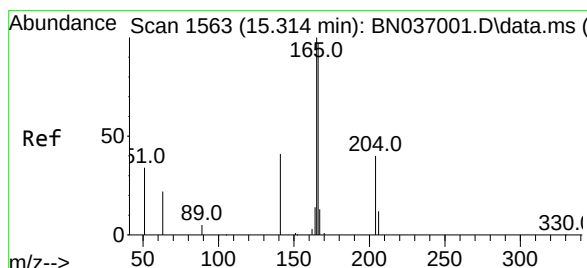
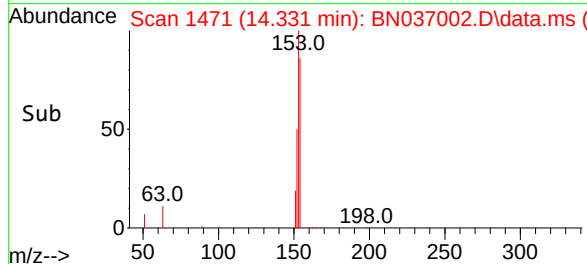
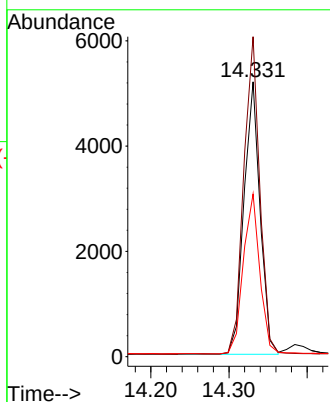
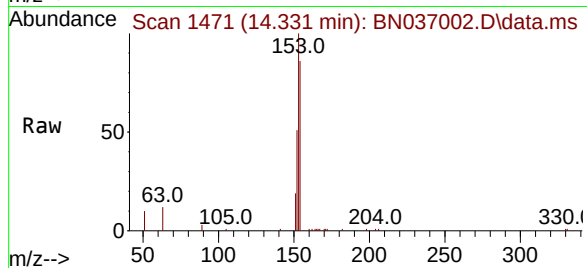




#17
Acenaphthene
Concen: 0.765 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

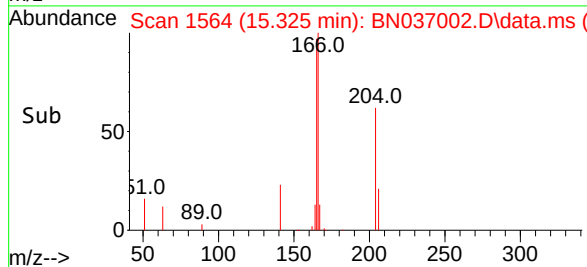
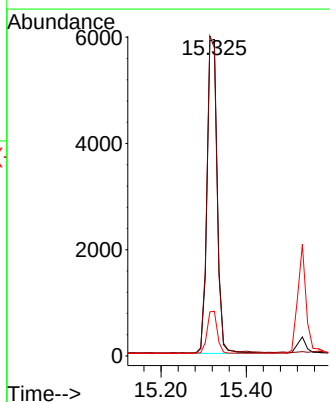
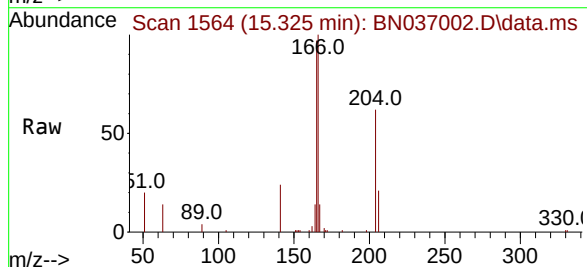
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

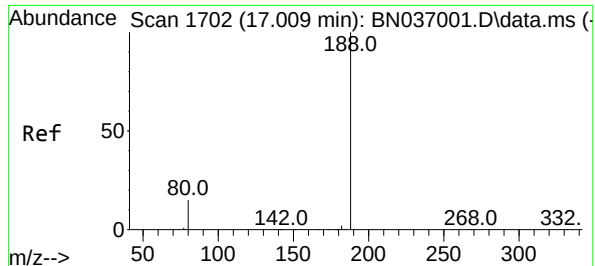
Tgt Ion	154	Resp	7416
Ion Ratio	Lower	Upper	
154	100		
153	116.5	94.2	141.4
152	60.4	49.4	74.0



#18
Fluorene
Concen: 0.772 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	166	Resp	9818
Ion Ratio	Lower	Upper	
166	100		
165	99.4	80.6	120.8
167	13.4	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

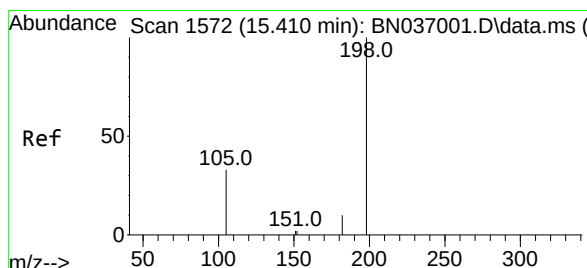
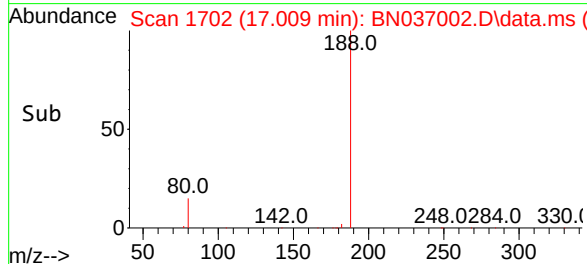
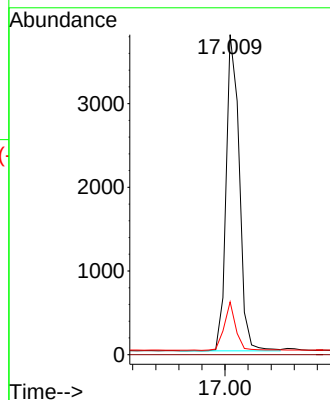
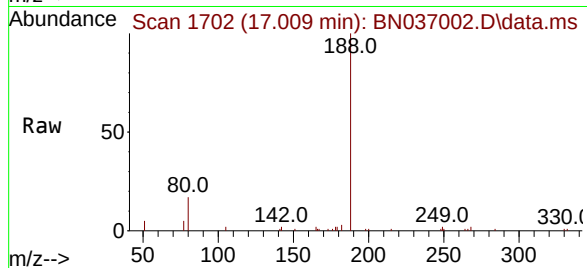
Tgt Ion:188 Resp: 5996

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.5 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.760 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

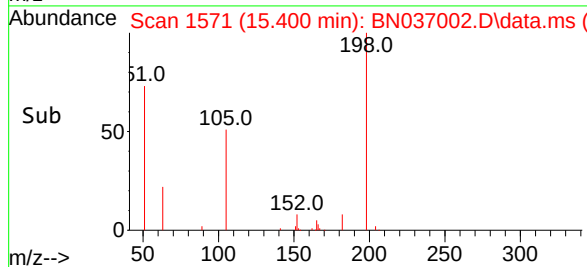
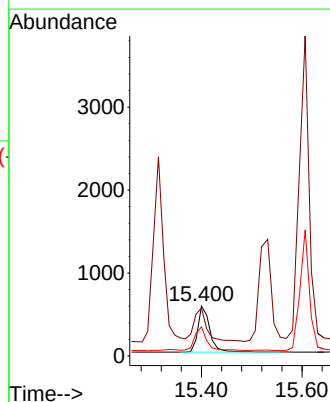
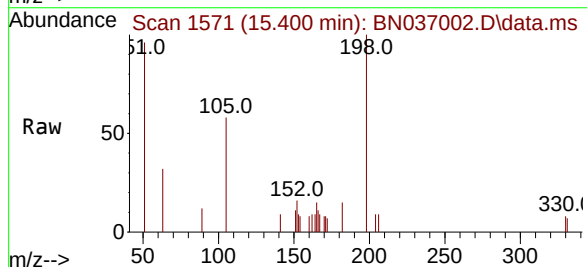
Tgt Ion:198 Resp: 946

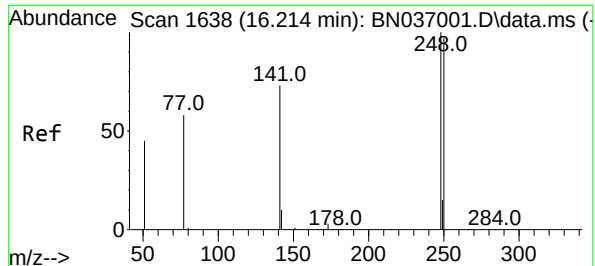
Ion Ratio Lower Upper

198 100

51 95.8 87.8 131.6

105 58.4 44.2 66.4

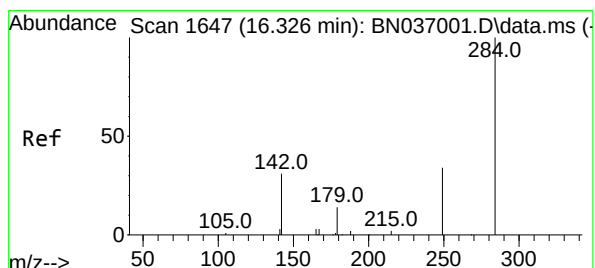
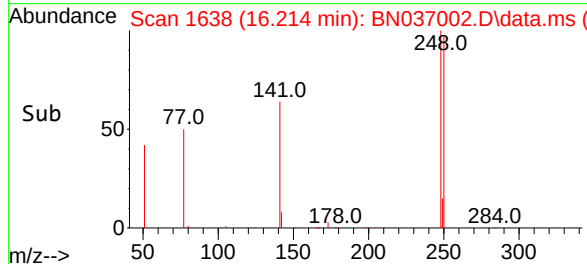
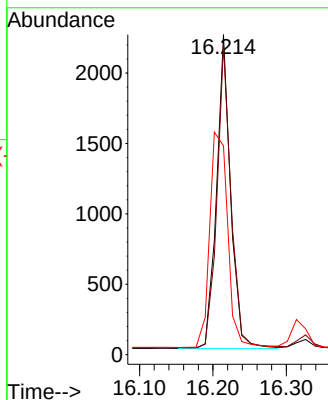
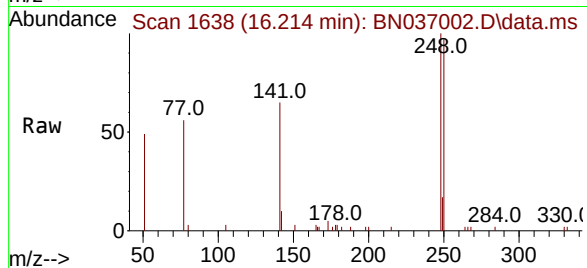




#21
4-Bromophenyl-phenylether
Concen: 0.782 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

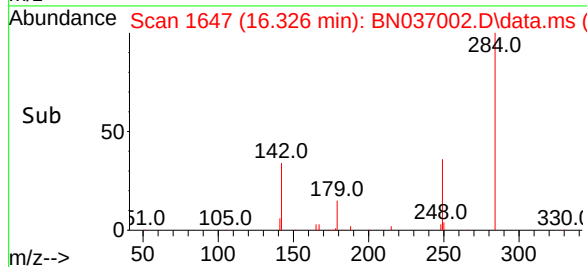
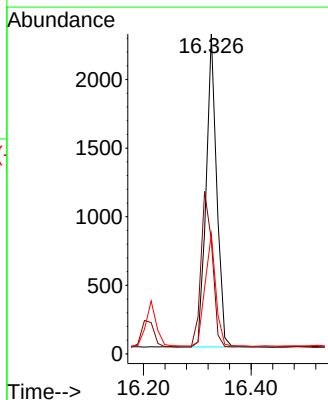
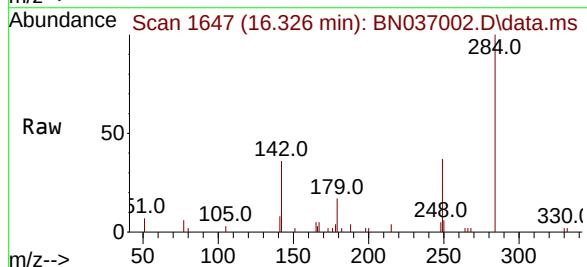
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

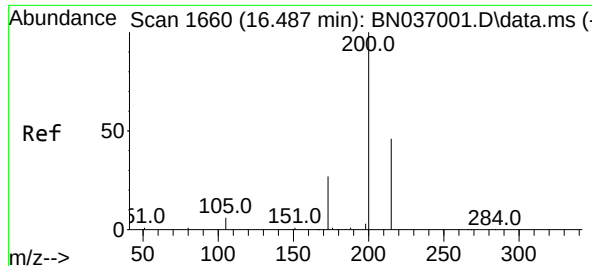
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.1	117.1
141	65.3	59.7	89.5



#22
Hexachlorobenzene
Concen: 0.766 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.2	41.2	61.8
249	36.8	28.7	43.1

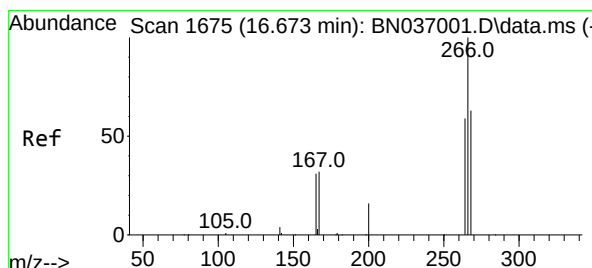
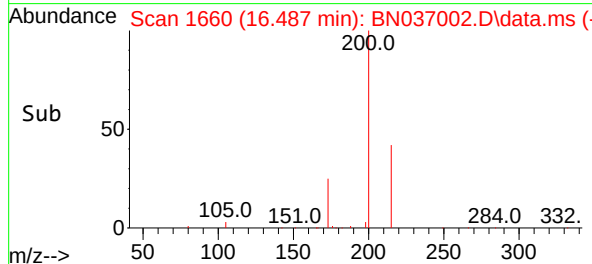
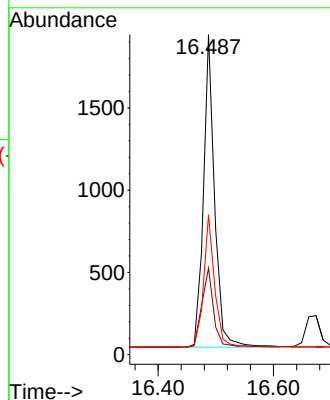
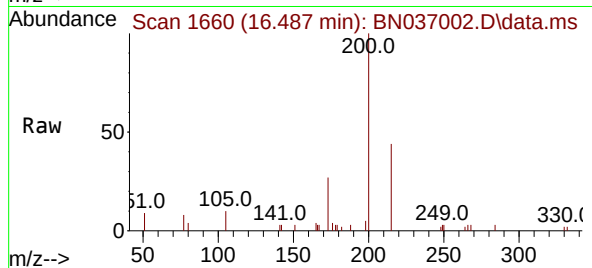




#23
Atrazine
Concen: 0.775 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

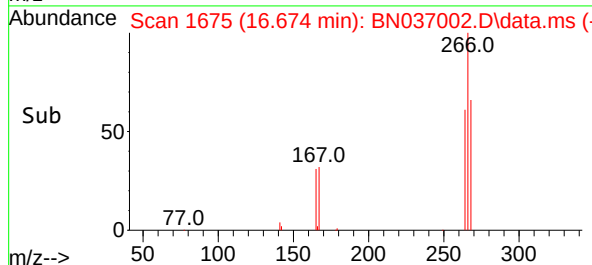
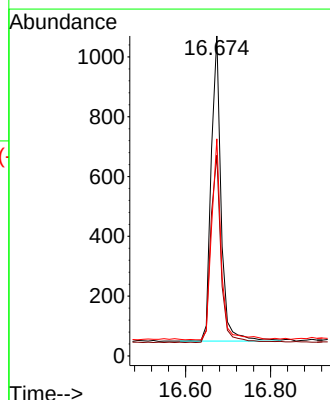
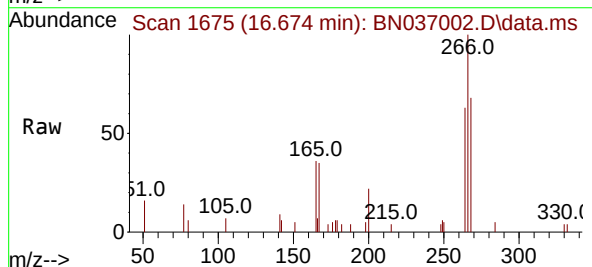
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

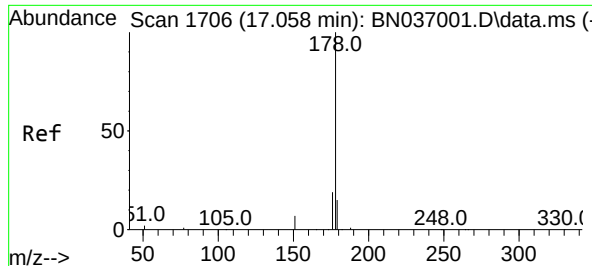
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.0	25.2	37.8
215	43.7	39.3	58.9



#24
Pentachlorophenol
Concen: 0.730 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.6	47.9	71.9
268	63.6	50.0	75.0





#25

Phenanthrene

Concen: 0.773 ng

RT: 17.058 min Scan# 1706

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

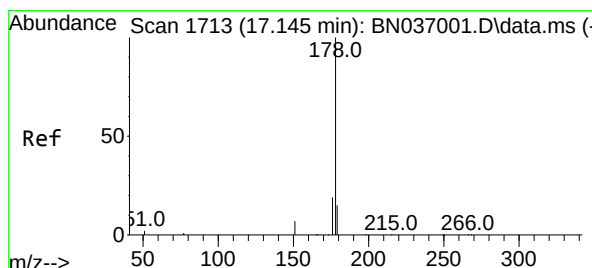
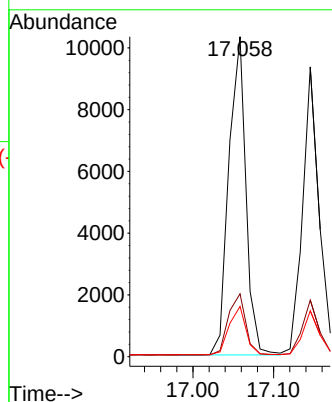
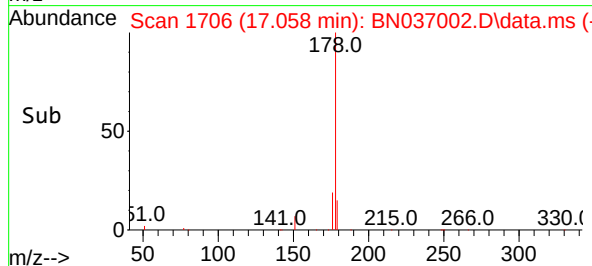
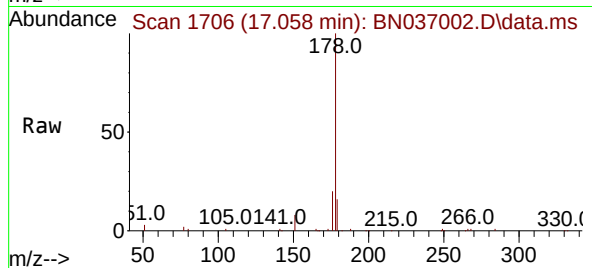
Tgt Ion:178 Resp: 15146

Ion Ratio Lower Upper

178 100

176 19.8 15.7 23.5

179 15.2 12.2 18.2



#26

Anthracene

Concen: 0.760 ng

RT: 17.145 min Scan# 1713

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

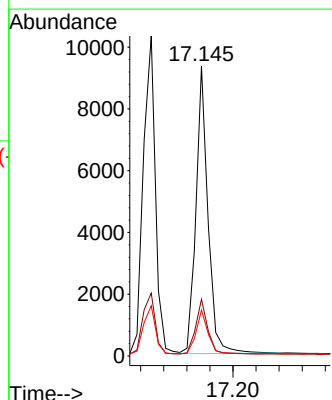
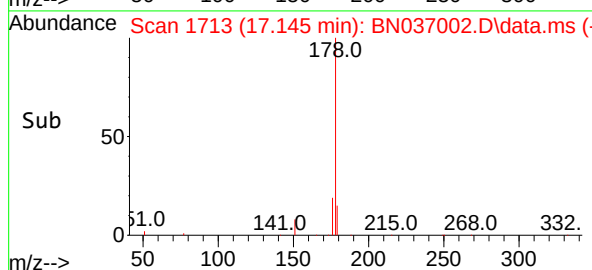
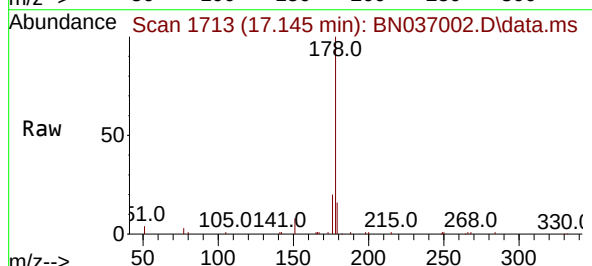
Tgt Ion:178 Resp: 13548

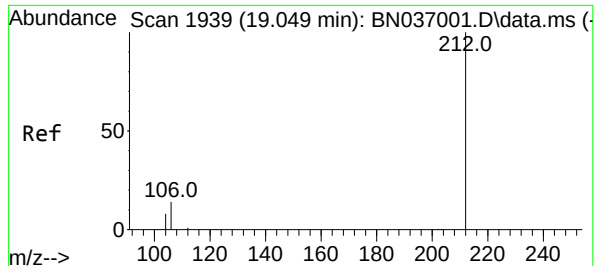
Ion Ratio Lower Upper

178 100

176 19.2 15.0 22.6

179 15.1 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.760 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

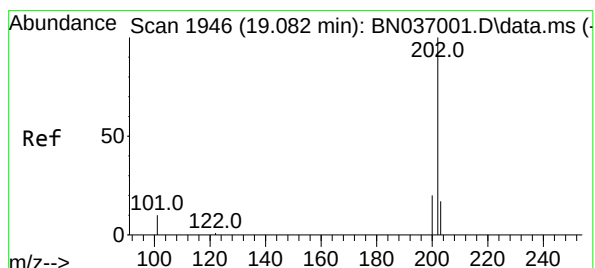
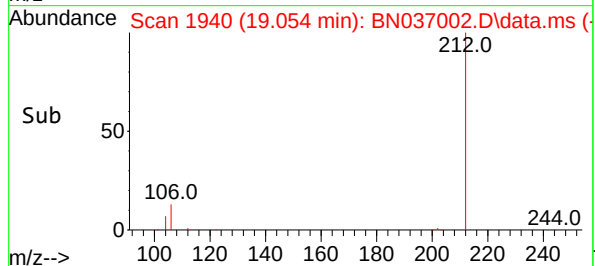
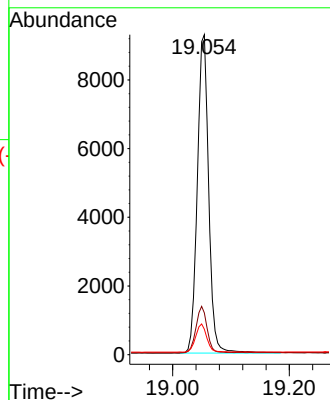
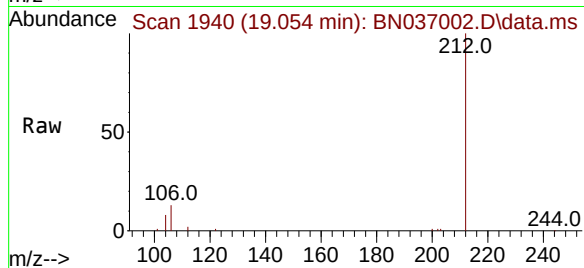
Tgt Ion:212 Resp: 12492

Ion Ratio Lower Upper

212 100

106 14.4 11.3 16.9

104 8.7 6.7 10.1



#28

Fluoranthene

Concen: 0.766 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

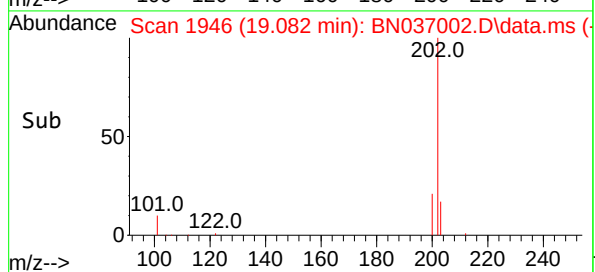
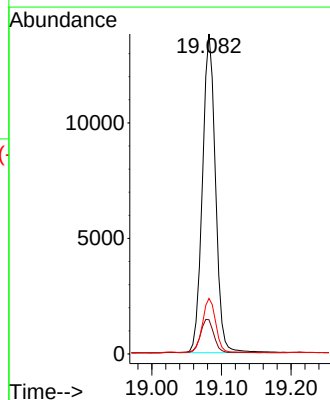
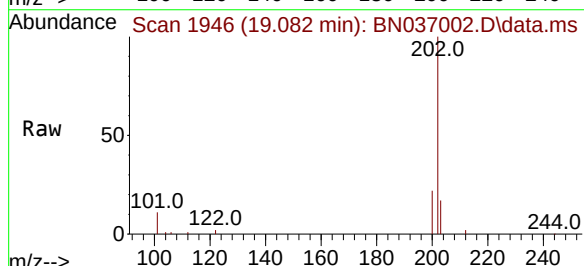
Tgt Ion:202 Resp: 17938

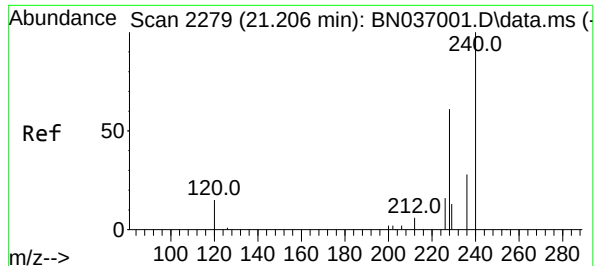
Ion Ratio Lower Upper

202 100

101 11.3 8.9 13.3

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

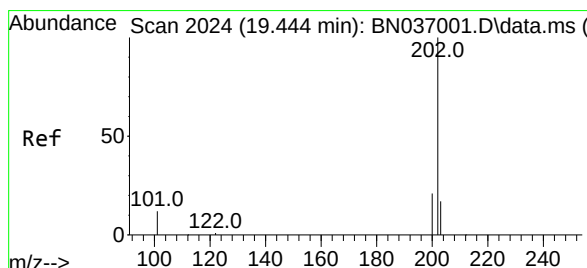
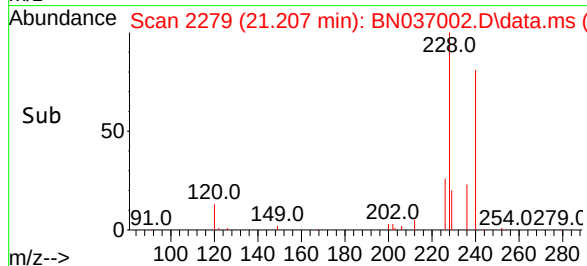
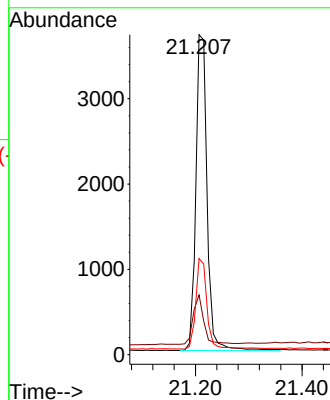
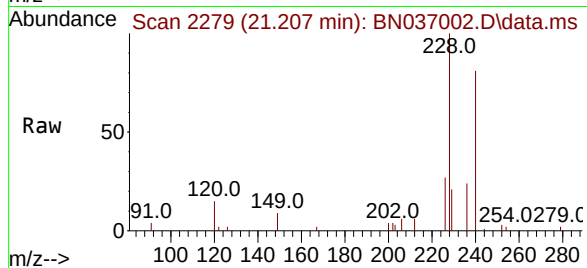
Tgt Ion:240 Resp: 5456

Ion Ratio Lower Upper

240 100

120 18.6 15.1 22.7

236 30.0 24.0 36.0



#30

Pyrene

Concen: 0.774 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

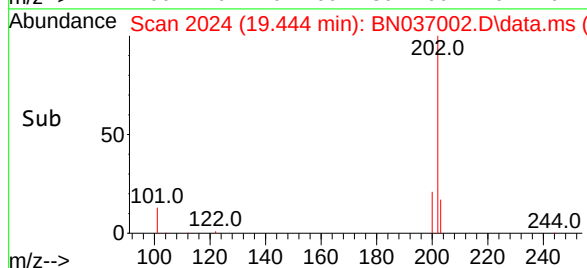
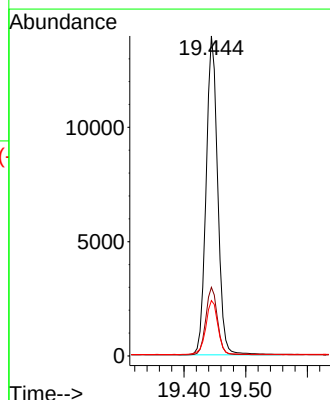
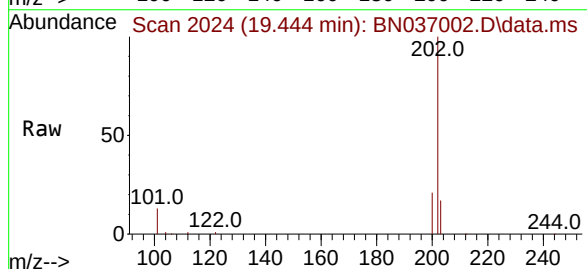
Tgt Ion:202 Resp: 18075

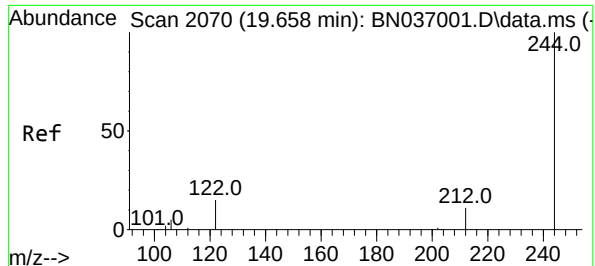
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.6 14.2 21.4

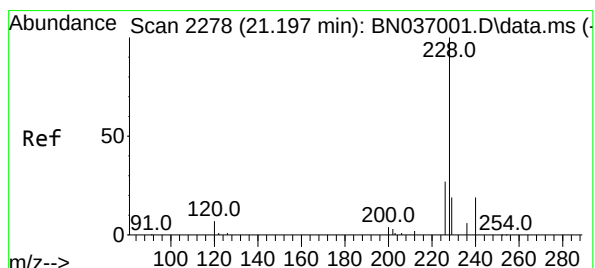
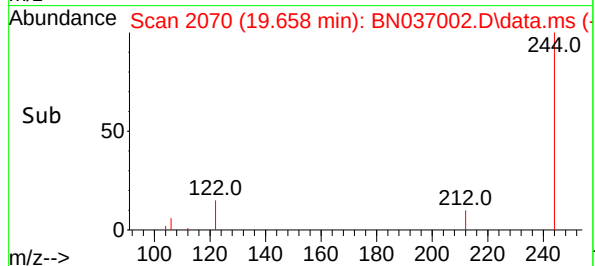
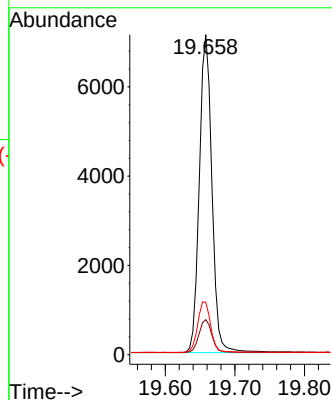
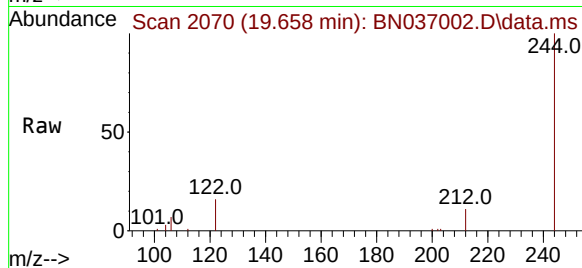




#31
Terphenyl-d14
Concen: 0.769 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

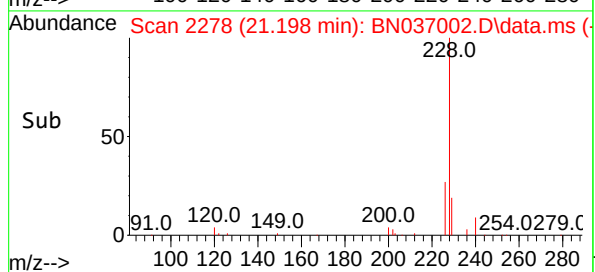
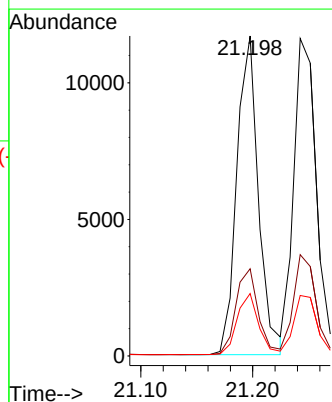
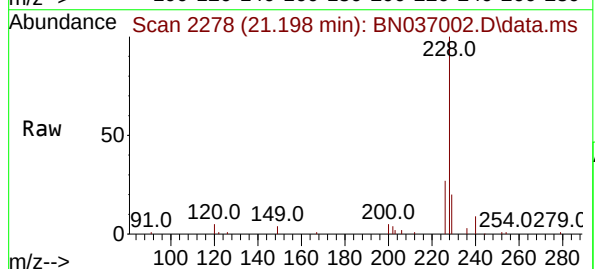
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

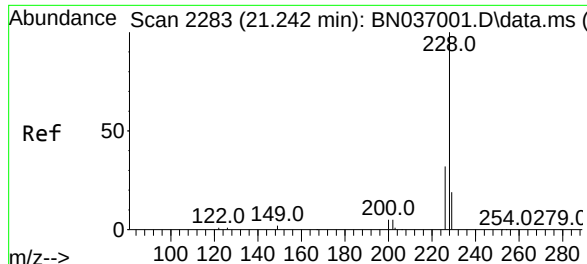
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	9.7	14.5
122	16.4	13.4	20.0



#32
Benzo(a)anthracene
Concen: 0.764 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.4
229	19.5	16.0	24.0





#33

Chrysene

Concen: 0.769 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

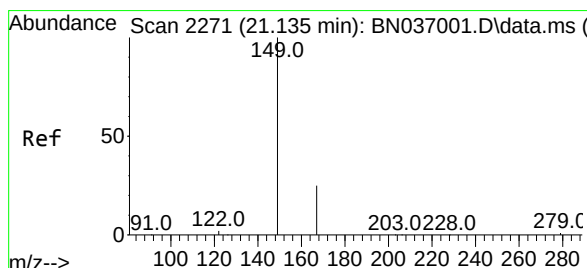
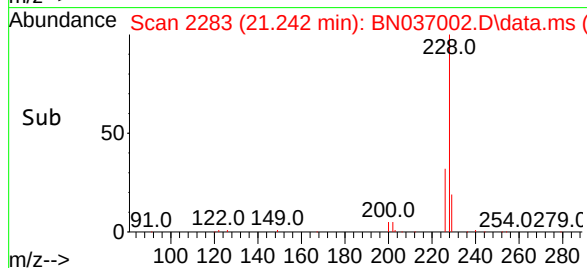
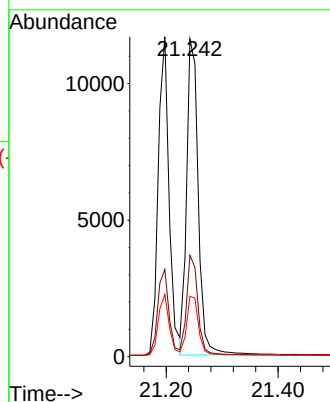
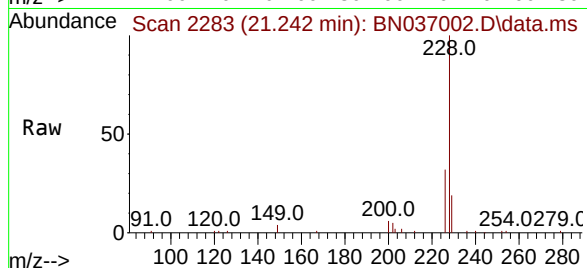
Tgt Ion:228 Resp: 16717

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.737 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

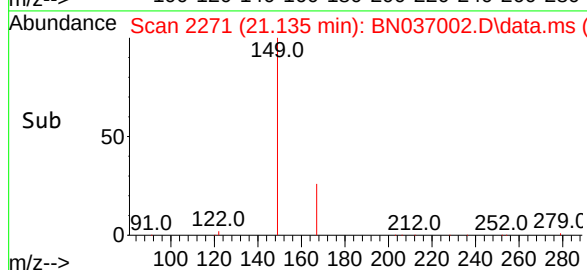
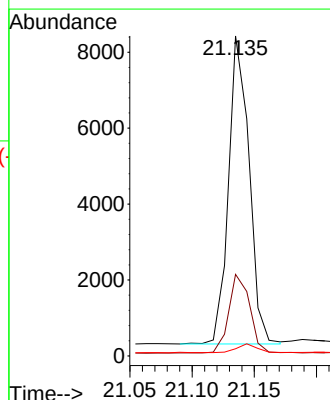
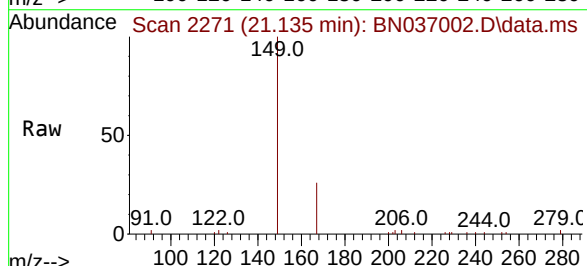
Tgt Ion:149 Resp: 9326

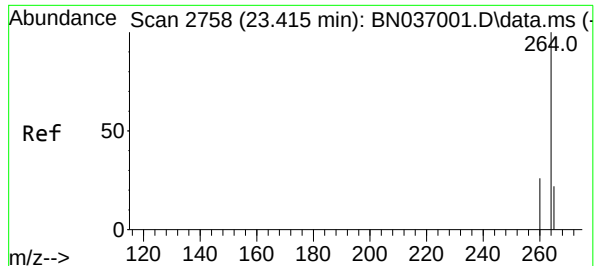
Ion Ratio Lower Upper

149 100

167 26.3 20.6 30.8

279 2.8 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037002.D

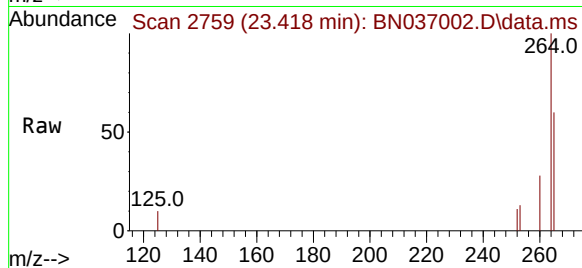
Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



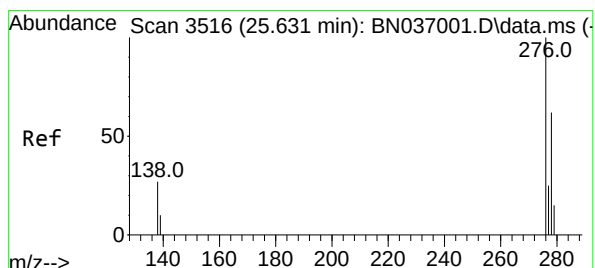
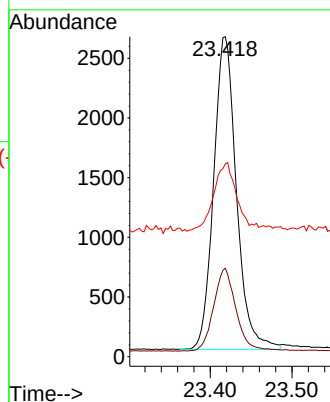
Tgt Ion:264 Resp: 5077

Ion Ratio Lower Upper

264 100

260 27.6 21.9 32.9

265 60.3 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

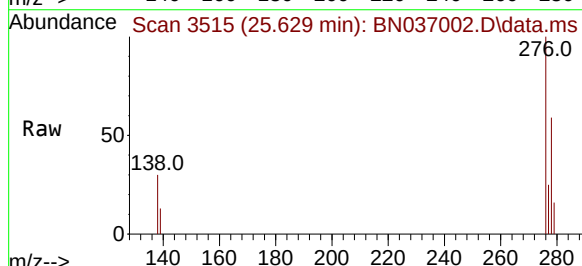
Concen: 0.768 ng

RT: 25.629 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29



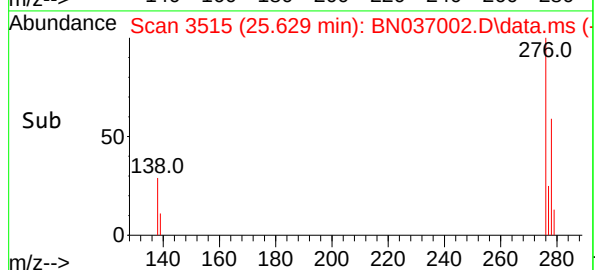
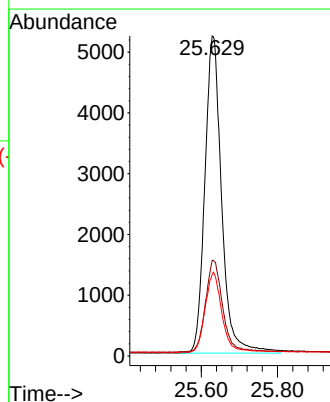
Tgt Ion:276 Resp: 15921

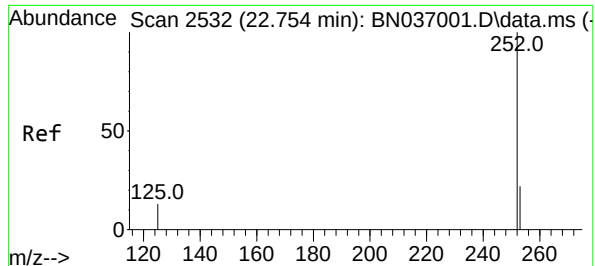
Ion Ratio Lower Upper

276 100

138 29.0 22.7 34.1

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.772 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

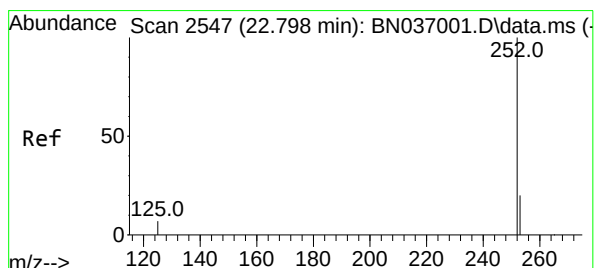
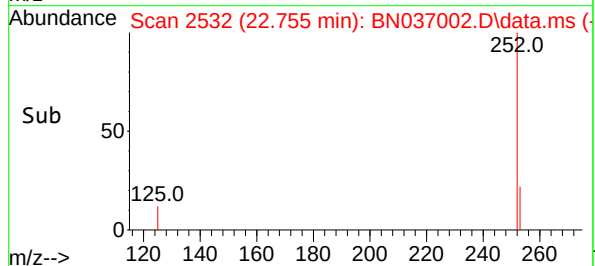
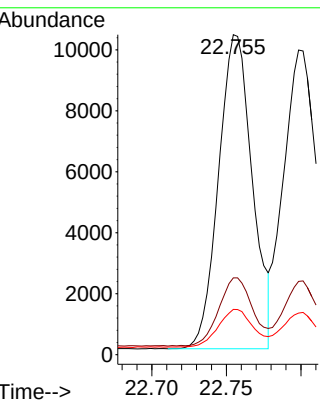
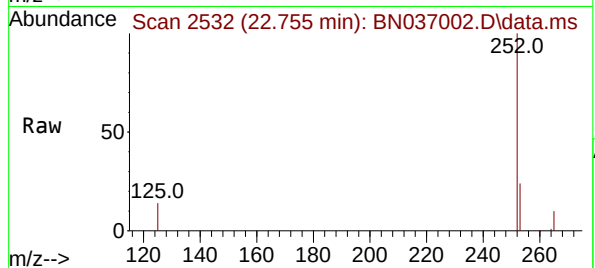
Tgt Ion:252 Resp: 16240

Ion Ratio Lower Upper

252 100

253 24.0 21.8 32.6

125 14.2 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 0.782 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

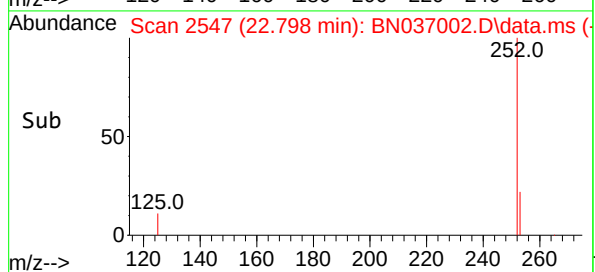
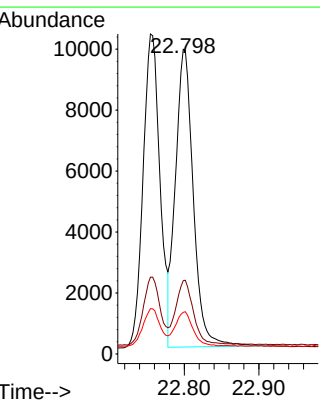
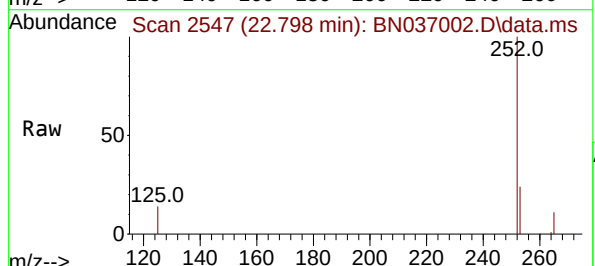
Tgt Ion:252 Resp: 16259

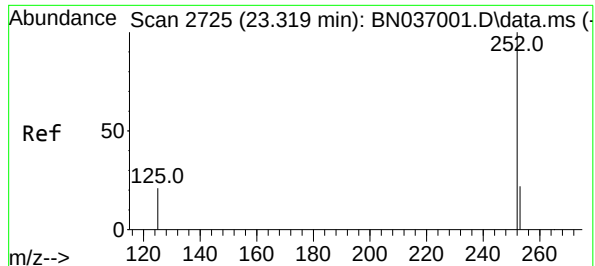
Ion Ratio Lower Upper

252 100

253 24.0 21.4 32.2

125 13.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.757 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

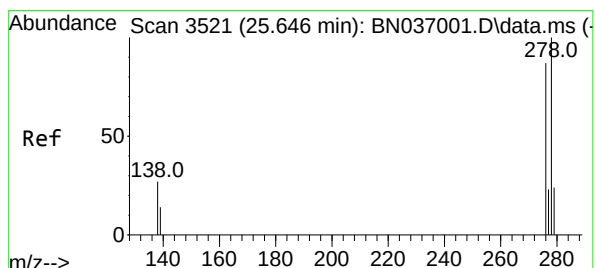
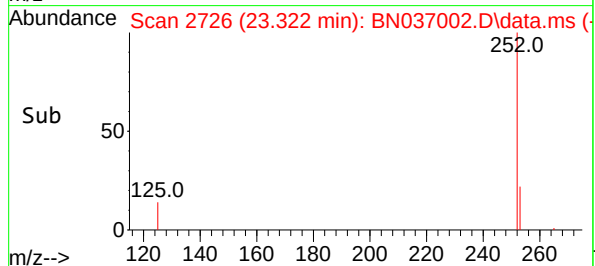
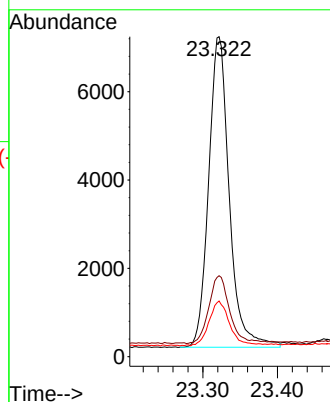
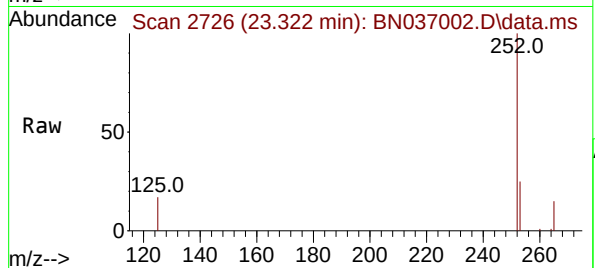
Tgt Ion:252 Resp: 13516

Ion Ratio Lower Upper

252 100

253 25.3 23.8 35.6

125 17.4 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.777 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

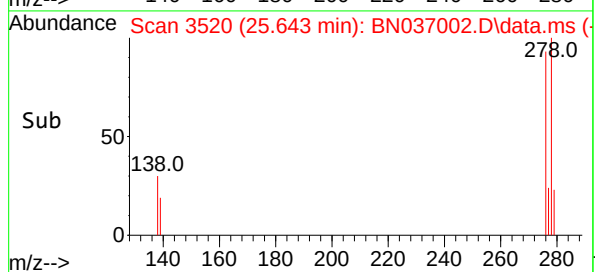
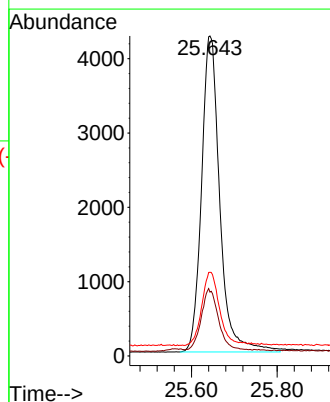
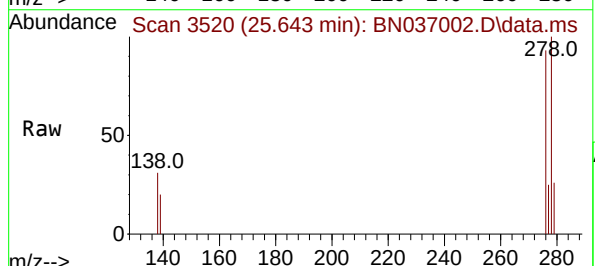
Tgt Ion:278 Resp: 12556

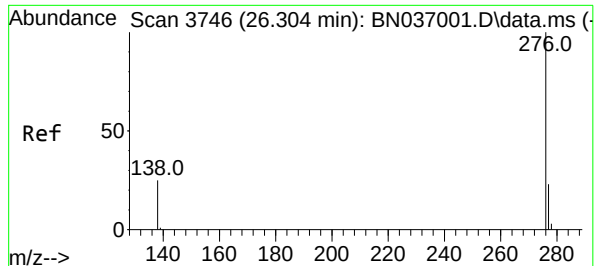
Ion Ratio Lower Upper

278 100

139 20.0 17.4 26.0

279 26.2 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.769 ng

RT: 26.307 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037002.D

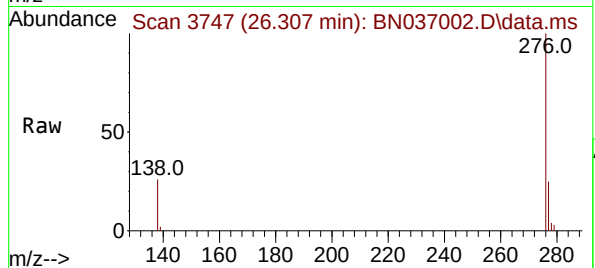
Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



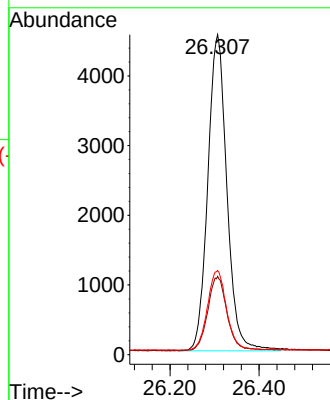
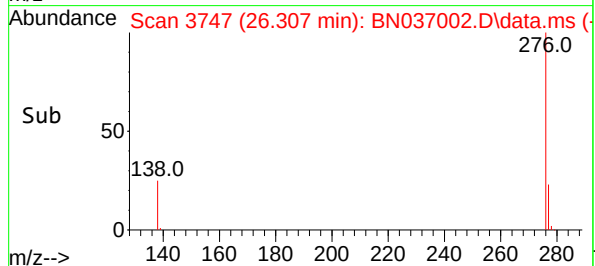
Tgt Ion:276 Resp: 13503

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.4

138 26.3 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037003.D
 Acq On : 13 May 2025 20:05
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: May 14 11:01:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

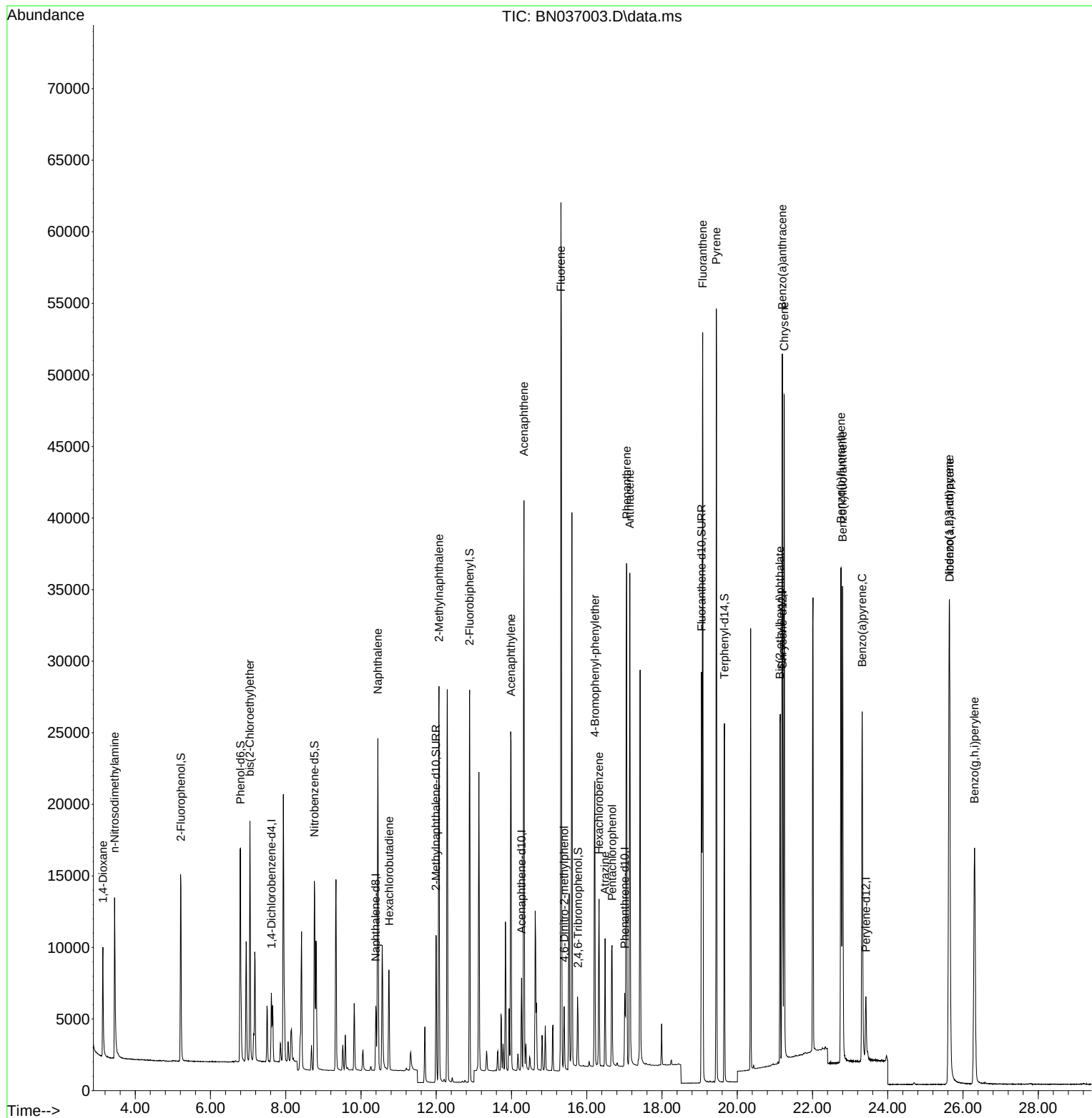
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2134	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	5654	0.400	ng	#-0.01
13) Acenaphthene-d10	14.267	164	3305	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	6678	0.400	ng	0.00
29) Chrysene-d12	21.207	240	6288	0.400	ng	0.00
35) Perylene-d12	23.418	264	5747	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	9332	1.669	ng	0.00
5) Phenol-d6	6.795	99	11879	1.698	ng	0.00
8) Nitrobenzene-d5	8.760	82	10231	1.662	ng	-0.01
11) 2-Methylnaphthalene-d10	11.996	152	13642	1.714	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	2461	1.695	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	25480	1.684	ng	0.00
27) Fluoranthene-d10	19.054	212	30804	1.682	ng	0.00
31) Terphenyl-d14	19.658	244	22417	1.667	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.141	88	4389	1.676	ng	96
3) n-Nitrosodimethylamine	3.451	42	9172	1.630	ng	# 92
6) bis(2-Chloroethyl)ether	7.048	93	10588	1.645	ng	99
9) Naphthalene	10.447	128	27723	1.659	ng	97
10) Hexachlorobutadiene	10.746	225	5780	1.648	ng	# 99
12) 2-Methylnaphthalene	12.072	142	18399	1.712	ng	99
16) Acenaphthylene	13.989	152	27375	1.702	ng	100
17) Acenaphthene	14.331	154	17846	1.698	ng	98
18) Fluorene	15.314	166	23515	1.705	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	2713	1.748	ng	# 73
21) 4-Bromophenyl-phenylether	16.214	248	7008	1.661	ng	94
22) Hexachlorobenzene	16.326	284	7515	1.664	ng	99
23) Atrazine	16.487	200	6336	1.722	ng	92
24) Pentachlorophenol	16.674	266	4256	1.697	ng	98
25) Phenanthrene	17.058	178	36506	1.673	ng	100
26) Anthracene	17.145	178	33908	1.707	ng	99
28) Fluoranthene	19.082	202	44613	1.711	ng	100
30) Pyrene	19.444	202	45015	1.674	ng	100
32) Benzo(a)anthracene	21.198	228	40103	1.694	ng	99
33) Chrysene	21.251	228	41576	1.660	ng	96
34) Bis(2-ethylhexyl)phtha...	21.135	149	23656	1.621	ng	99
36) Indeno(1,2,3-cd)pyrene	25.631	276	38771	1.652	ng	98
37) Benzo(b)fluoranthene	22.757	252	40209	1.688	ng	# 90
38) Benzo(k)fluoranthene	22.798	252	40699	1.729	ng	# 91
39) Benzo(a)pyrene	23.322	252	34149	1.689	ng	# 82
40) Dibenzo(a,h)anthracene	25.643	278	30810	1.685	ng	# 91
41) Benzo(g,h,i)perylene	26.307	276	32256	1.624	ng	97

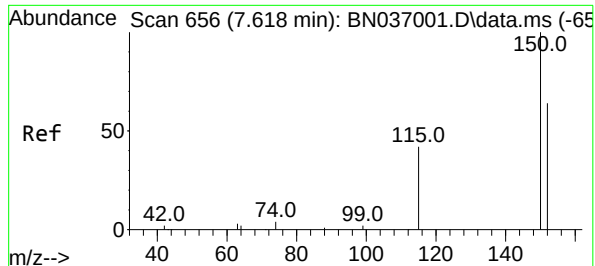
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037003.D
Acq On : 13 May 2025 20:05
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: May 14 11:01:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

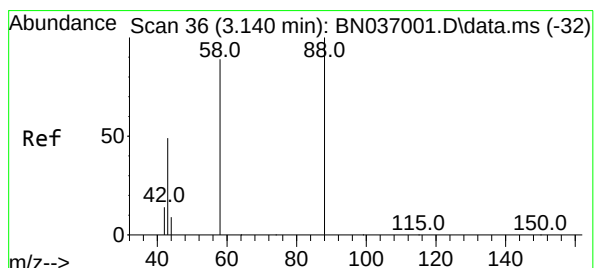
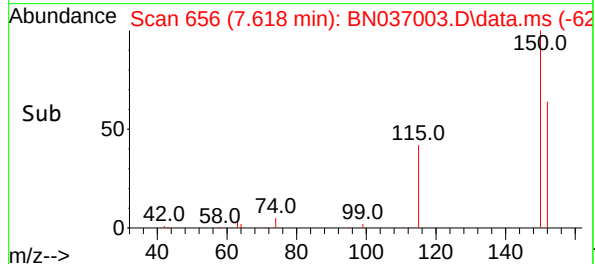
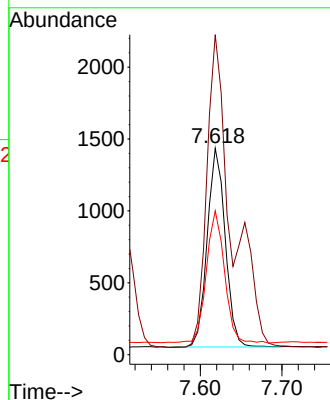
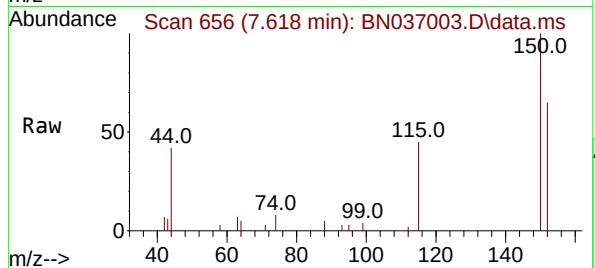




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

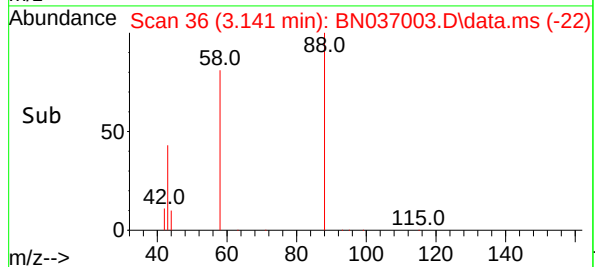
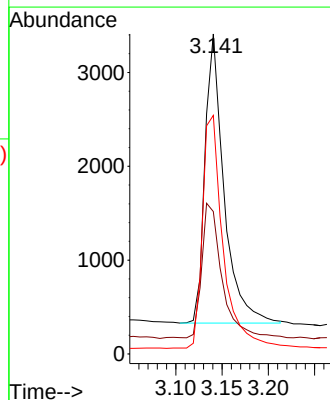
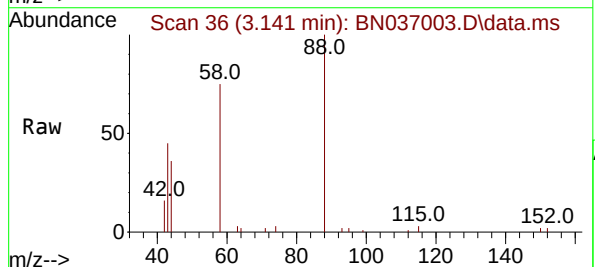
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

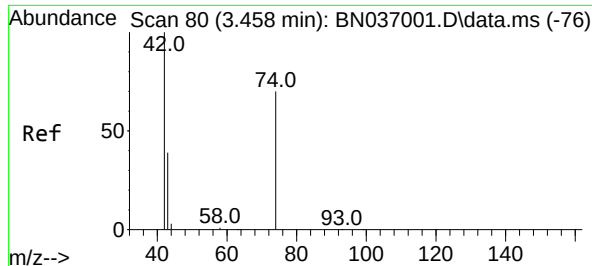
Tgt Ion:152 Resp: 2134
Ion Ratio Lower Upper
152 100
150 155.0 123.9 185.9
115 69.6 55.8 83.8



#2
1,4-Dioxane
Concen: 1.676 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 88 Resp: 4389
Ion Ratio Lower Upper
88 100
43 51.0 37.4 56.0
58 87.9 68.8 103.2

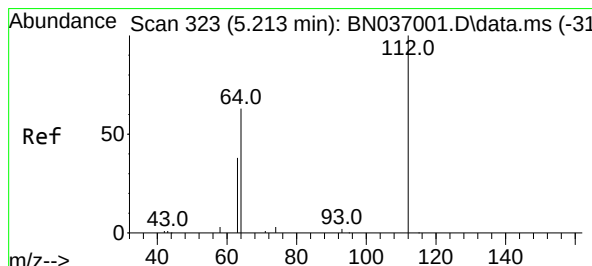
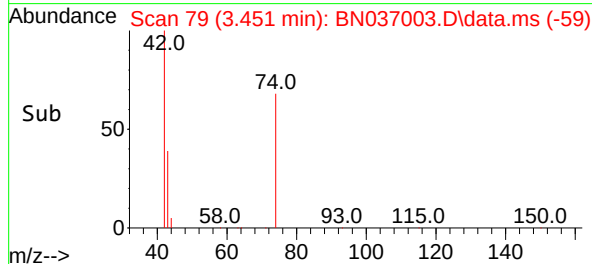
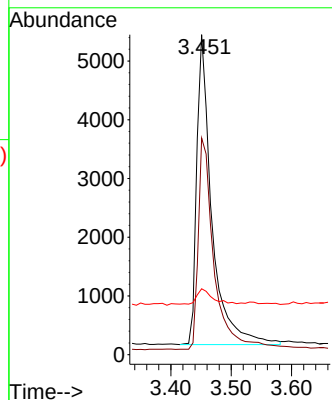
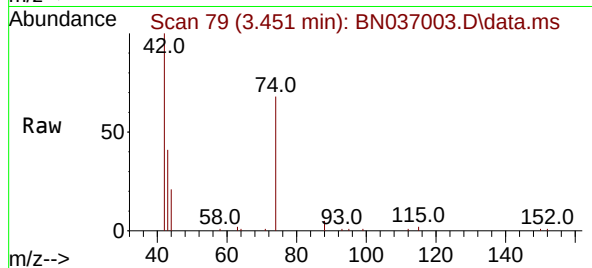




#3
n-Nitrosodimethylamine
Concen: 1.630 ng
RT: 3.451 min Scan# 79
Delta R.T. -0.007 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

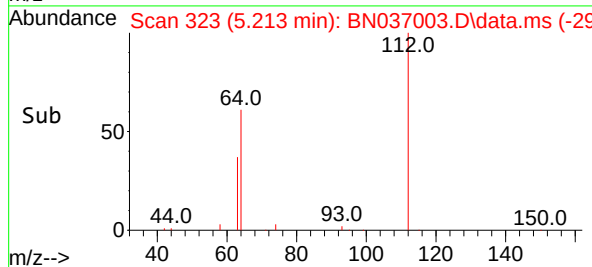
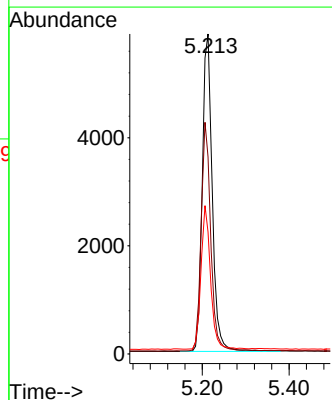
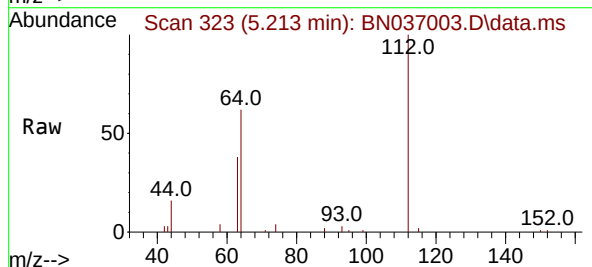
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

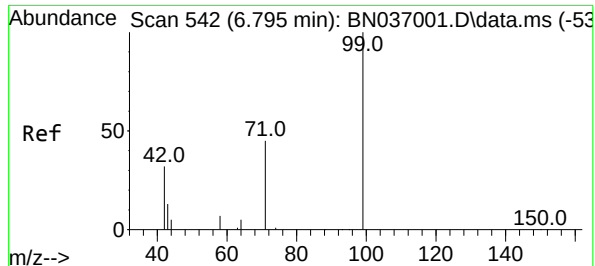
Tgt Ion: 42 Resp: 9172
Ion Ratio Lower Upper
42 100
74 71.1 59.8 89.6
44 5.1 11.9 17.9#



#4
2-Fluorophenol
Concen: 1.669 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 112 Resp: 9332
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 43.4 34.6 51.8

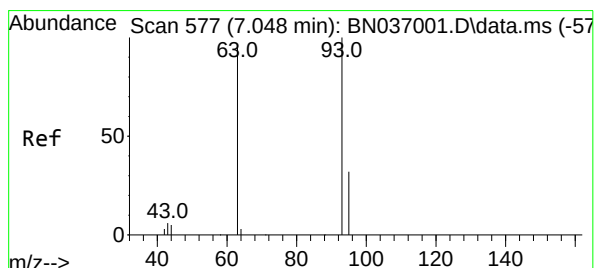
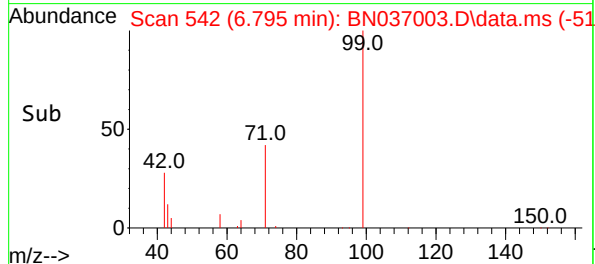
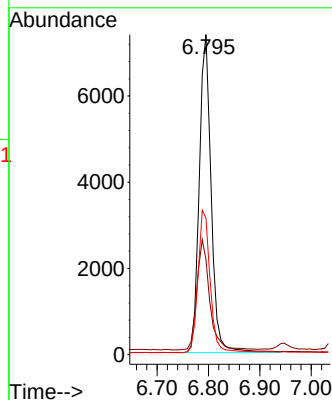
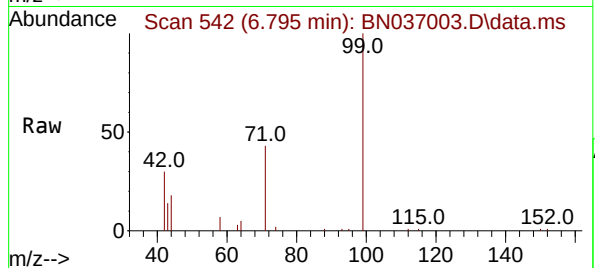




#5
Phenol-d6
Concen: 1.698 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

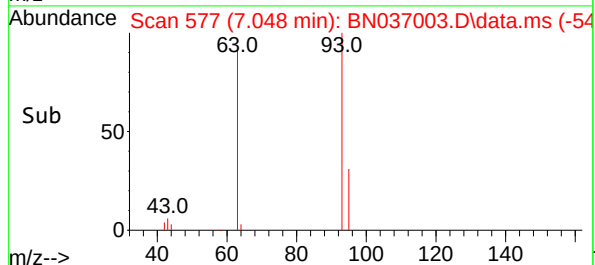
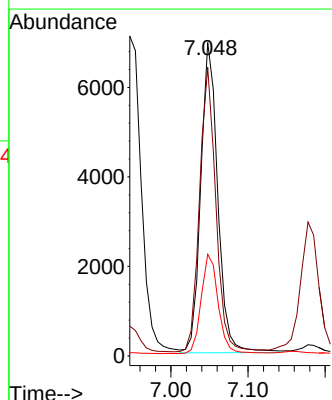
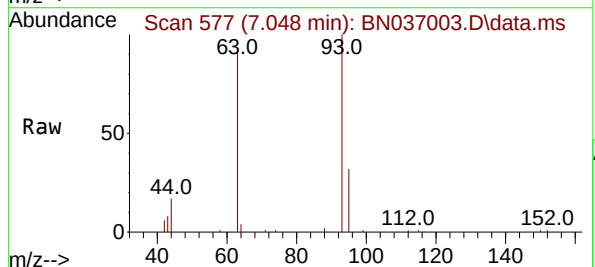
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

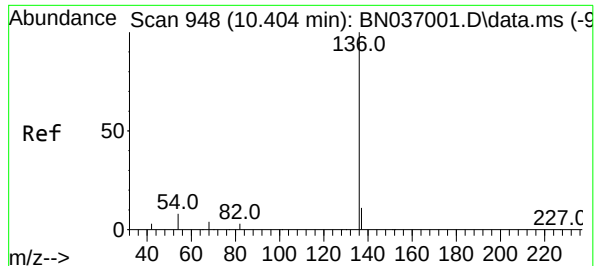
Tgt Ion: 99 Resp: 11879
Ion Ratio Lower Upper
99 100
42 36.8 29.3 43.9
71 45.6 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 1.645 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 93 Resp: 10588
Ion Ratio Lower Upper
93 100
63 87.8 70.1 105.1
95 32.0 26.2 39.2

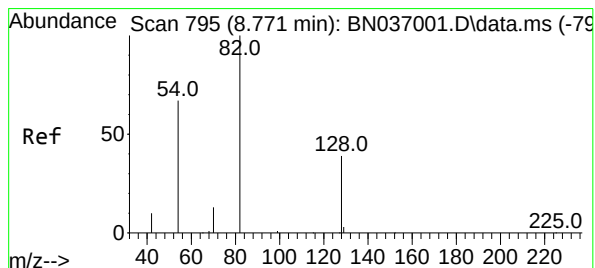
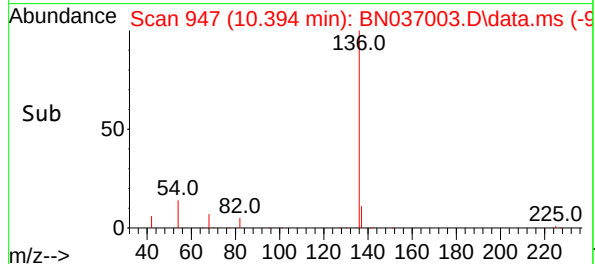
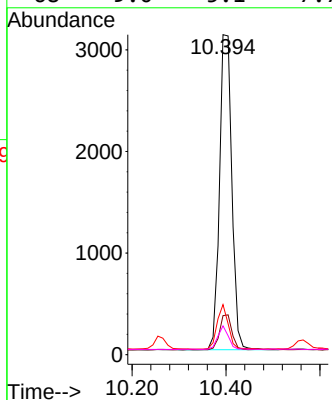
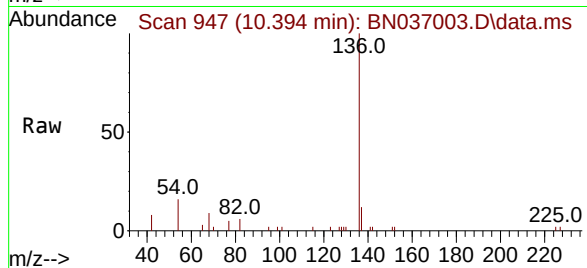




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

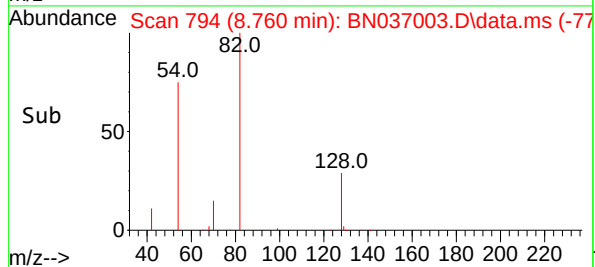
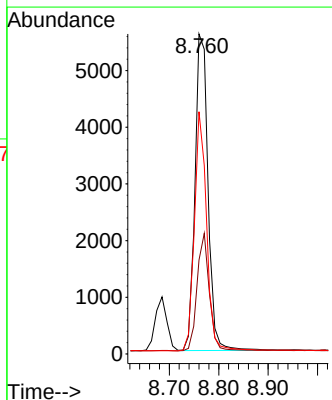
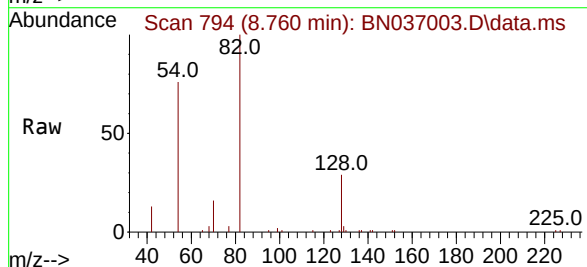
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

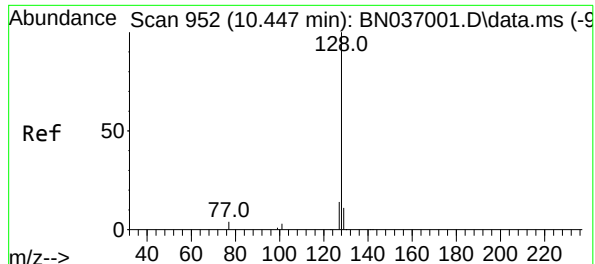
Tgt Ion:	136	Resp:	5654
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.4	15.6
54	15.7	8.5	12.7#
68	9.0	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 1.662 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:	82	Resp:	10231
Ion	Ratio	Lower	Upper
82	100		
128	29.3	34.0	51.0#
54	75.7	55.0	82.4





#9

Naphthalene

Concen: 1.659 ng

RT: 10.447 min Scan# 952

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

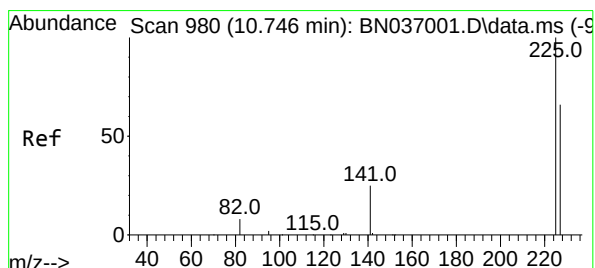
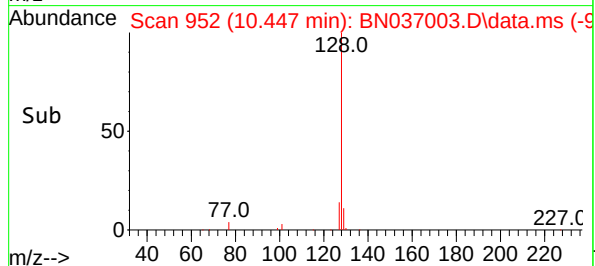
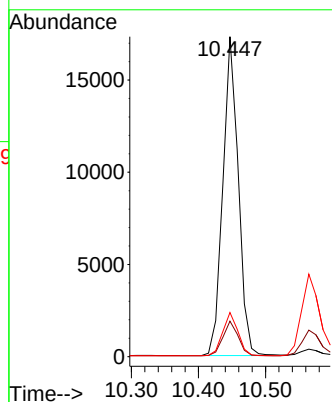
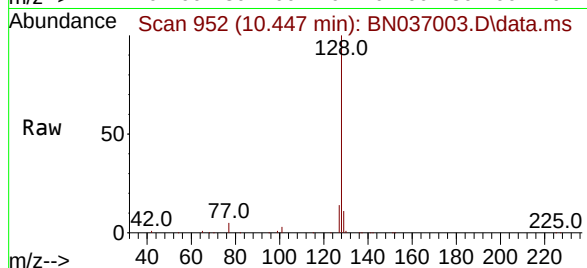
Tgt Ion:128 Resp: 27723

Ion Ratio Lower Upper

128 100

129 11.1 9.7 14.5

127 13.8 12.4 18.6



#10

Hexachlorobutadiene

Concen: 1.648 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

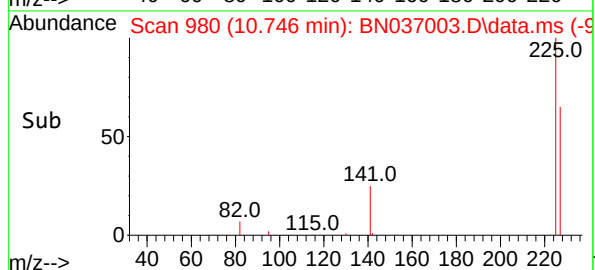
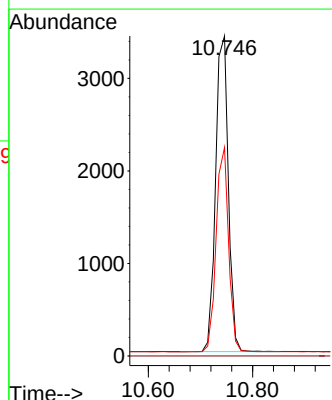
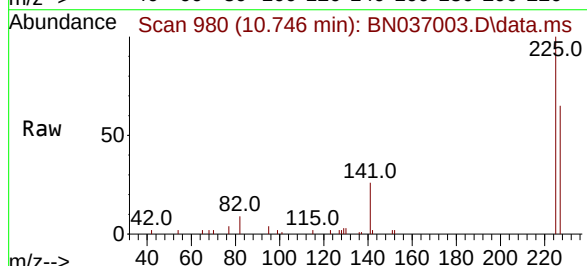
Tgt Ion:225 Resp: 5780

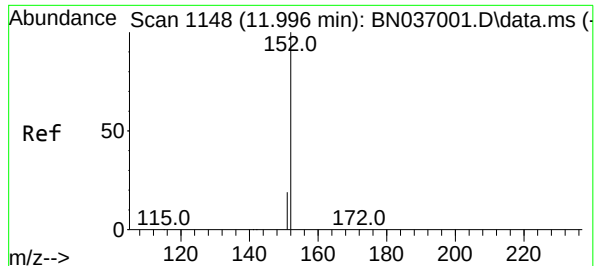
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.1 50.9 76.3

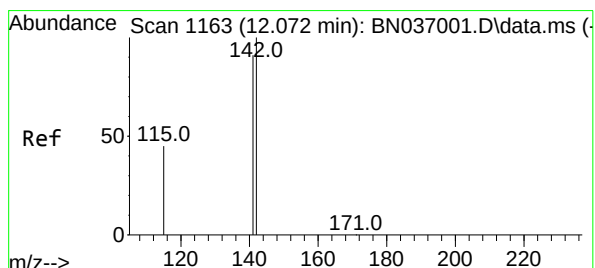
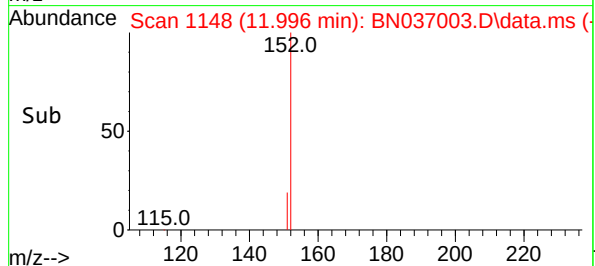
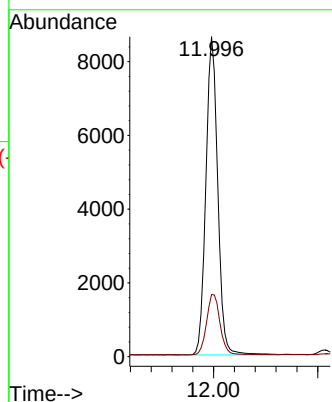
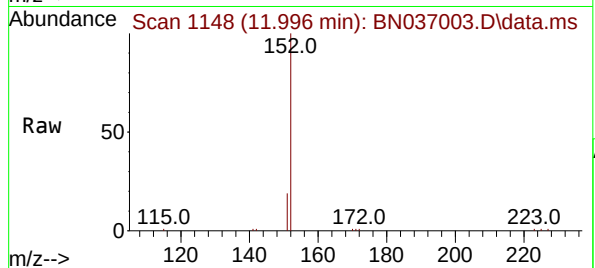




#11
2-Methylnaphthalene-d10
Concen: 1.714 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

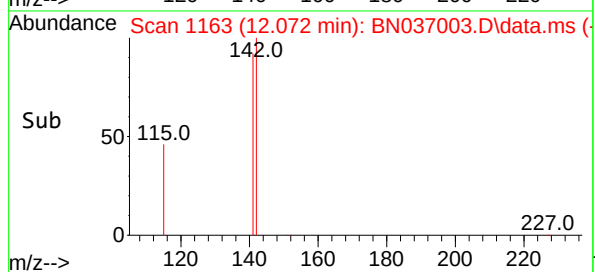
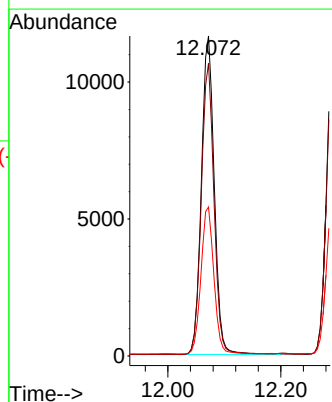
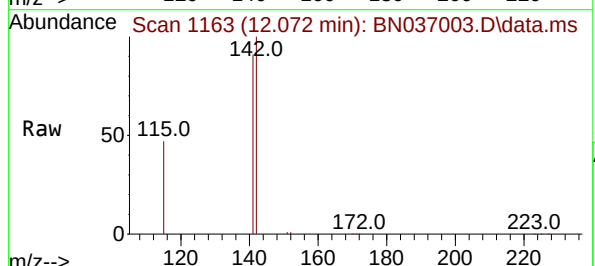
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

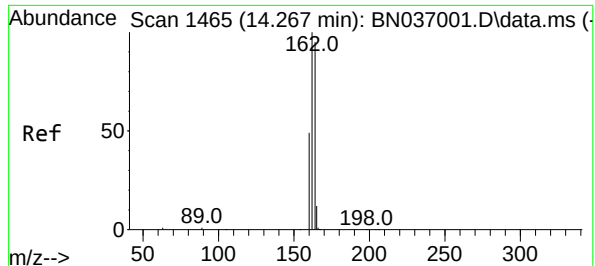
Tgt Ion:152 Resp: 13642
Ion Ratio Lower Upper
152 100
151 21.4 17.5 26.3



#12
2-Methylnaphthalene
Concen: 1.712 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:142 Resp: 18399
Ion Ratio Lower Upper
142 100
141 91.5 73.3 109.9
115 46.6 38.4 57.6

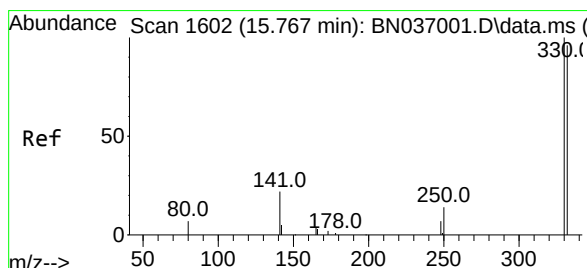
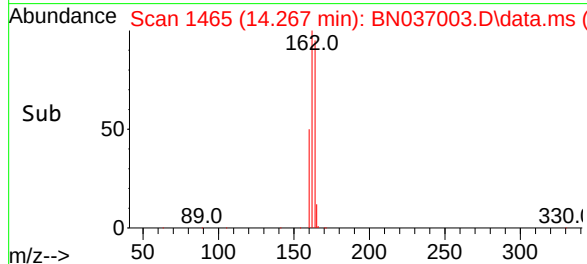
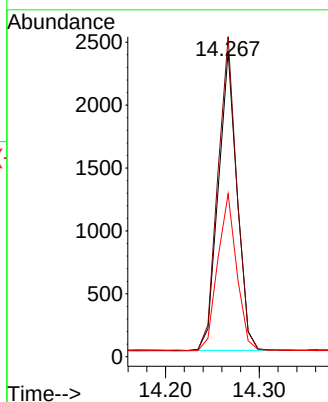
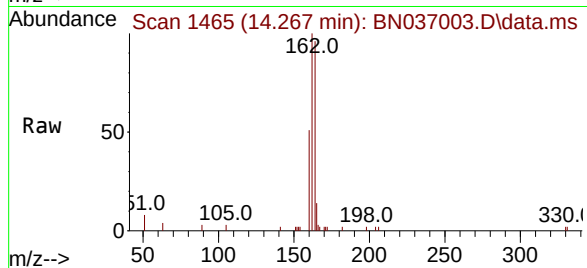




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

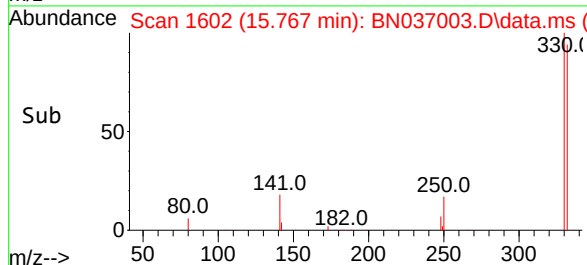
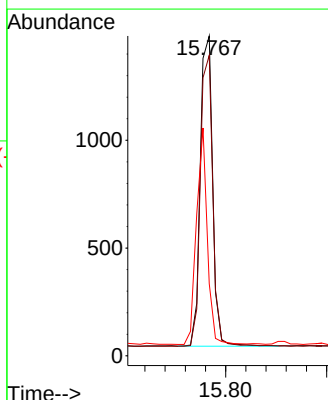
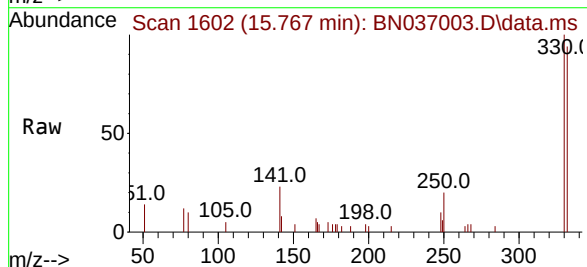
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

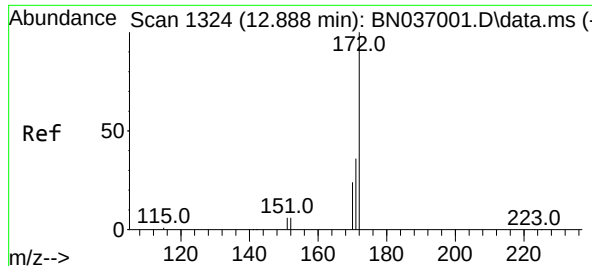
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	84.2	126.4
160	53.3	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 1.695 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.9	73.8	110.8
141	60.9	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 1.684 ng

RT: 12.888 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

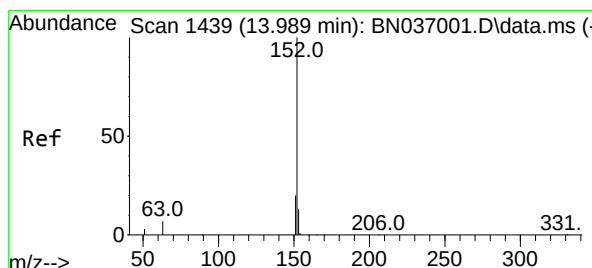
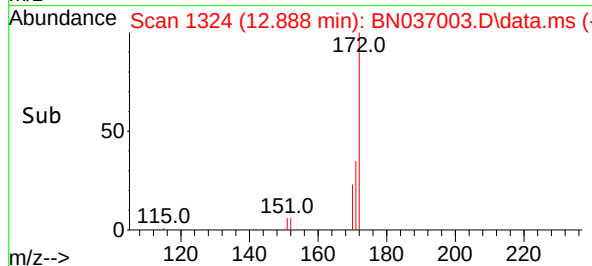
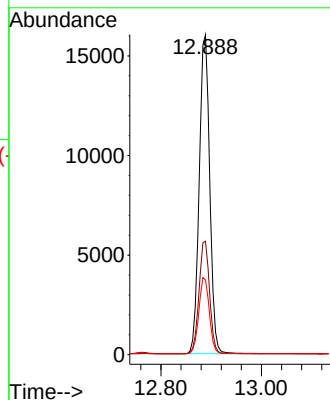
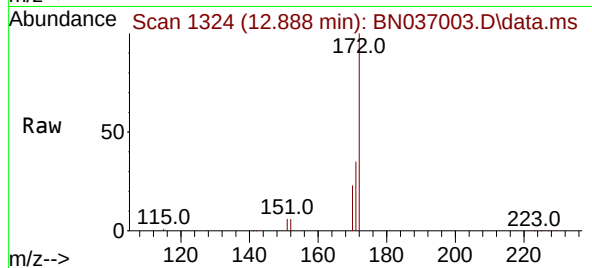
Tgt Ion:172 Resp: 25480

Ion Ratio Lower Upper

172 100

171 35.4 29.2 43.8

170 23.4 20.5 30.7



#16

Acenaphthylene

Concen: 1.702 ng

RT: 13.989 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

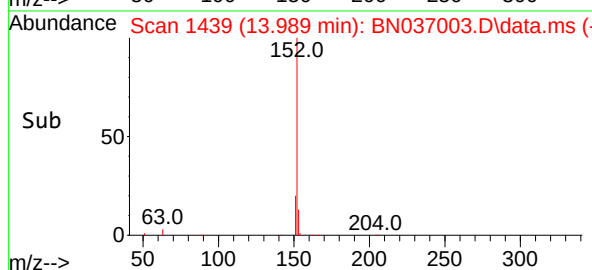
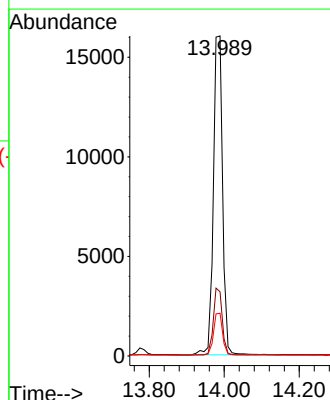
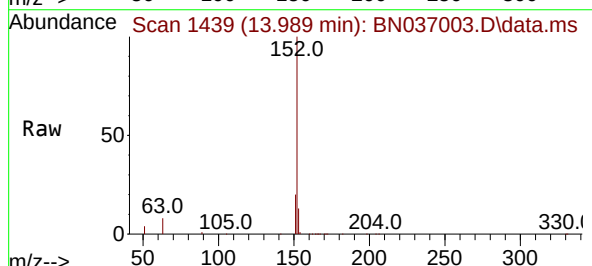
Tgt Ion:152 Resp: 27375

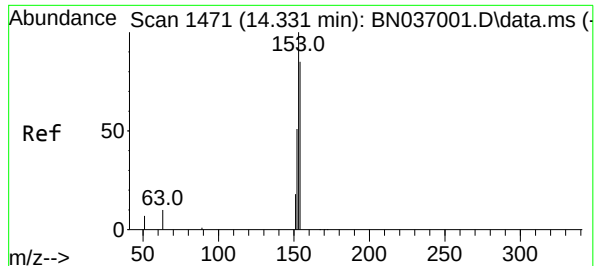
Ion Ratio Lower Upper

152 100

151 20.2 16.1 24.1

153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 1.698 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

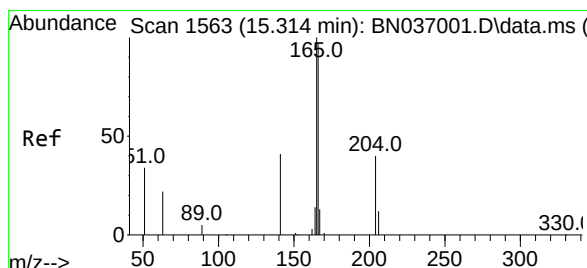
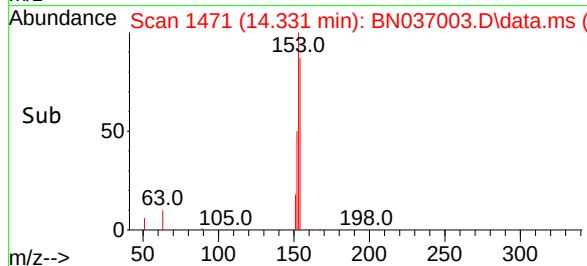
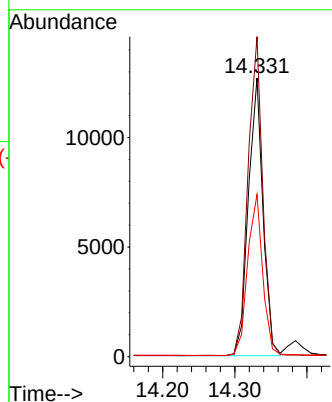
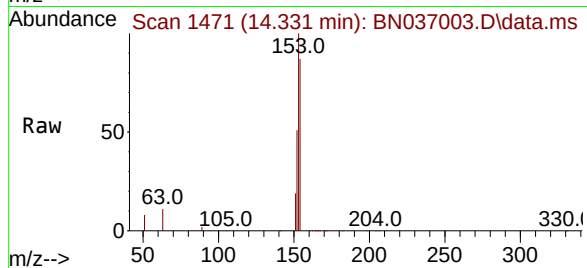
Tgt Ion:154 Resp: 17846

Ion Ratio Lower Upper

154 100

153 115.9 94.2 141.4

152 59.8 49.4 74.0



#18

Fluorene

Concen: 1.705 ng

RT: 15.314 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

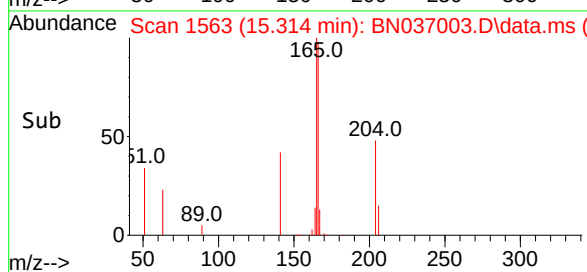
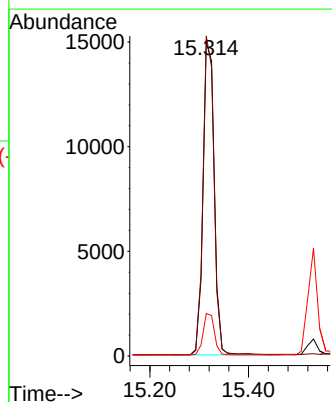
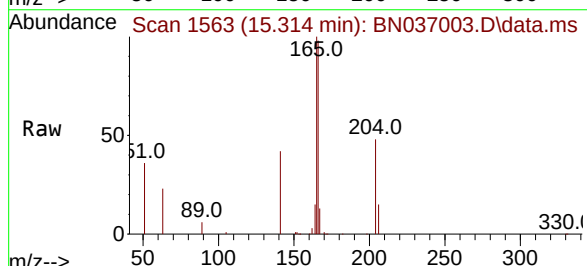
Tgt Ion:166 Resp: 23515

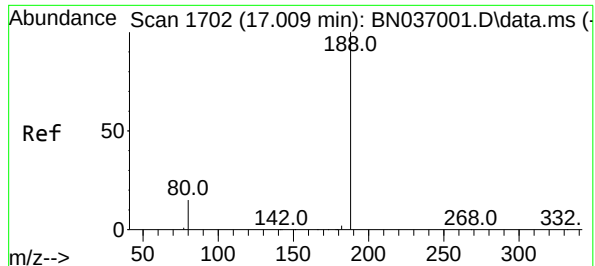
Ion Ratio Lower Upper

166 100

165 100.2 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

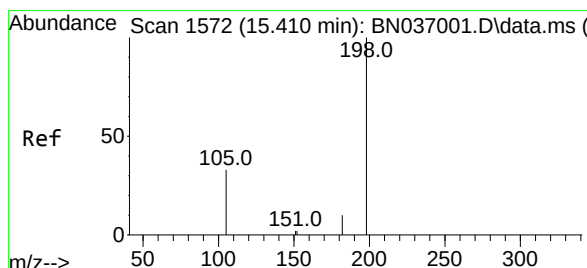
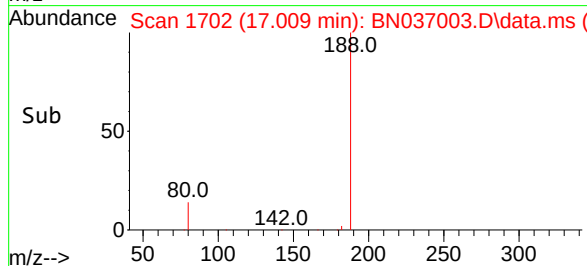
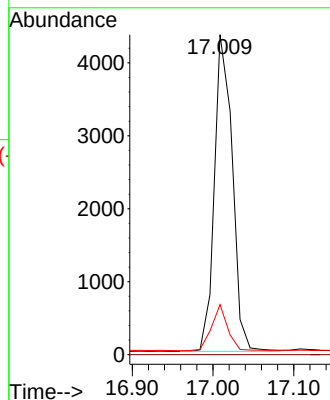
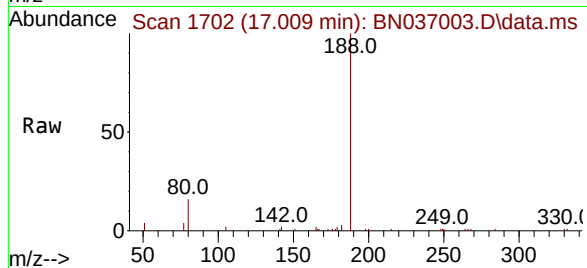
Tgt Ion:188 Resp: 6678

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.748 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

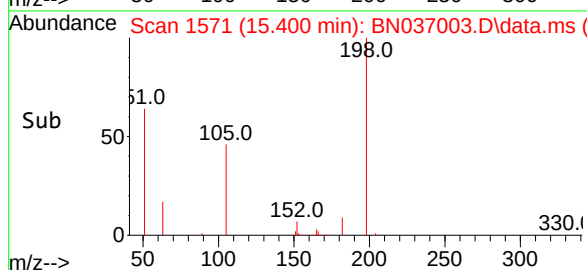
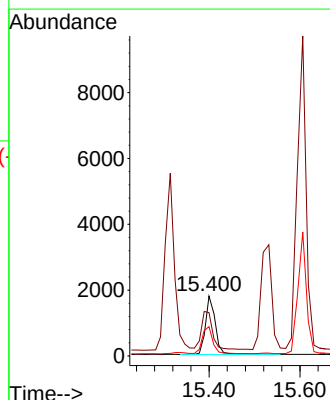
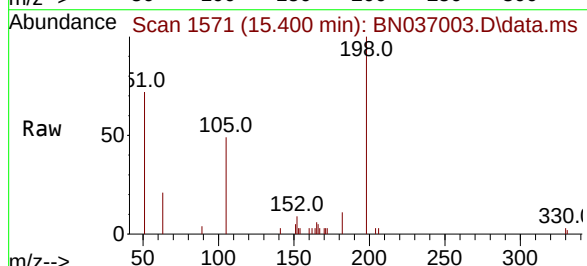
Tgt Ion:198 Resp: 2713

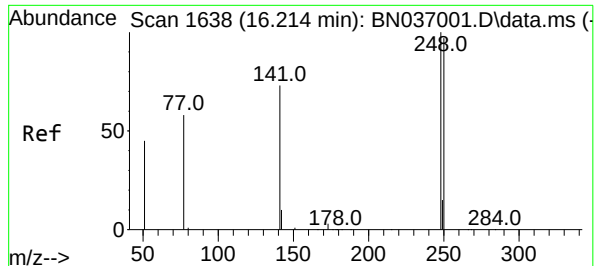
Ion Ratio Lower Upper

198 100

51 72.3 87.8 131.6#

105 48.8 44.2 66.4

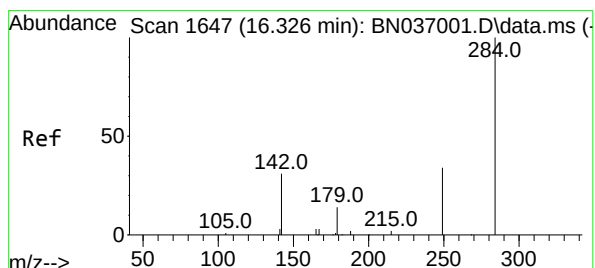
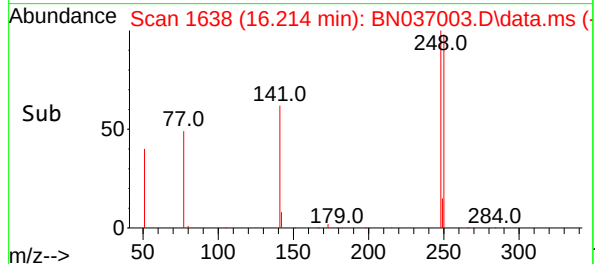
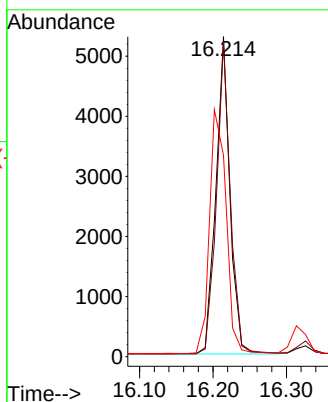
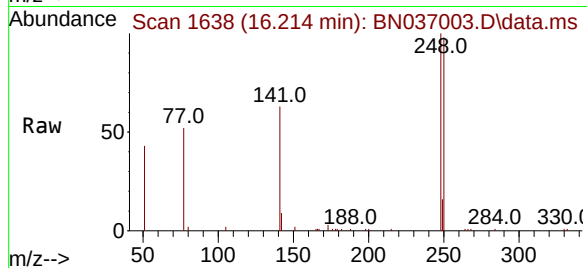




#21
4-Bromophenyl-phenylether
Concen: 1.661 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

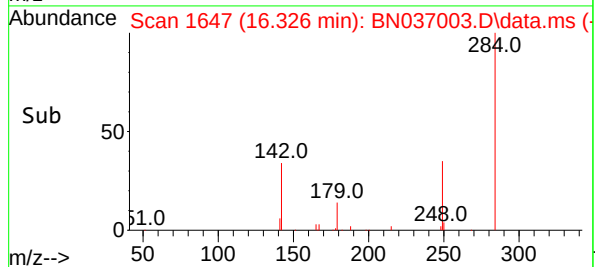
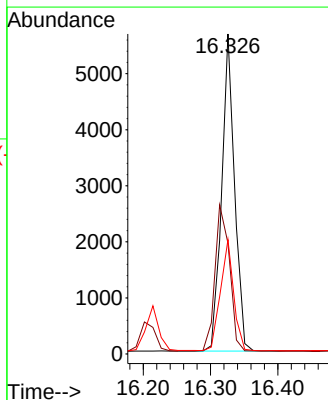
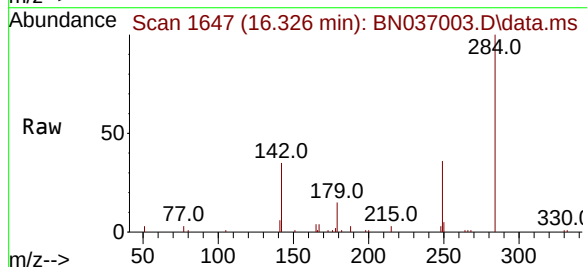
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

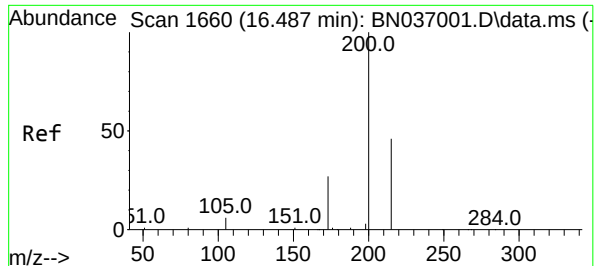
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.1	117.1
141	62.9	59.7	89.5



#22
Hexachlorobenzene
Concen: 1.664 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.3	41.2	61.8
249	35.9	28.7	43.1

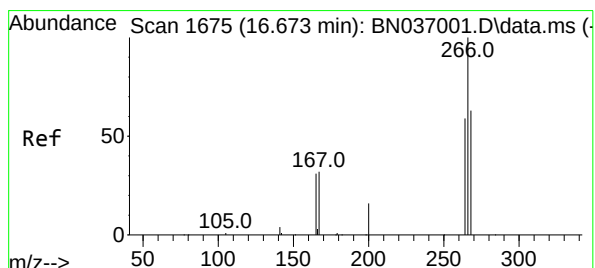
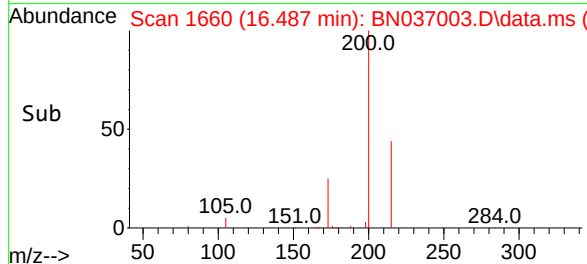
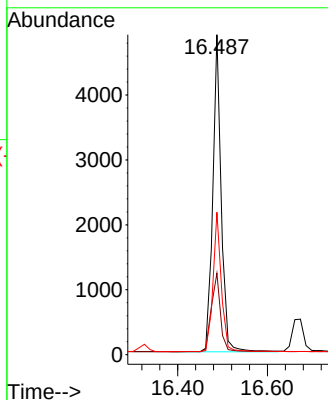
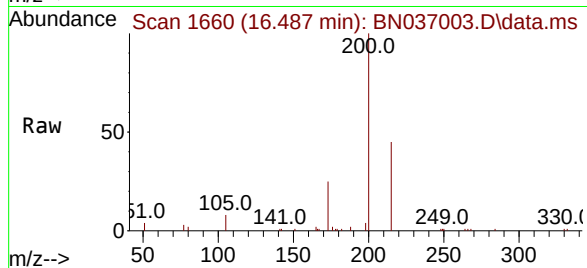




#23
Atrazine
Concen: 1.722 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

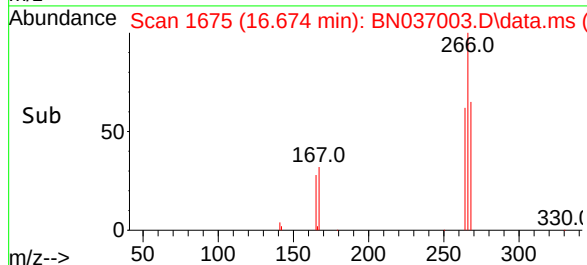
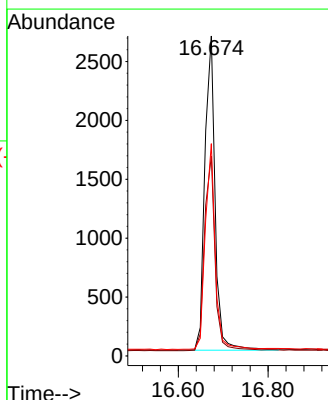
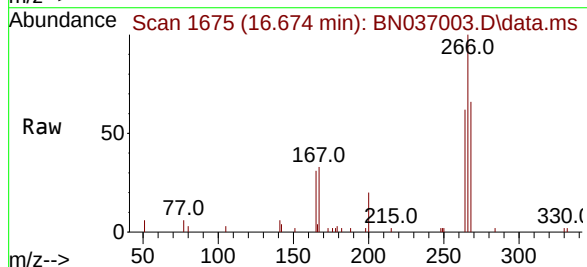
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

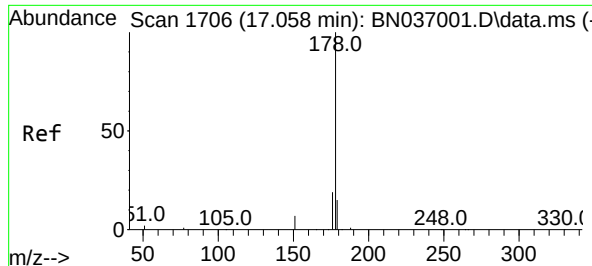
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.5	25.2	37.8
215	44.5	39.3	58.9



#24
Pentachlorophenol
Concen: 1.697 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.9	47.9	71.9
268	62.9	50.0	75.0

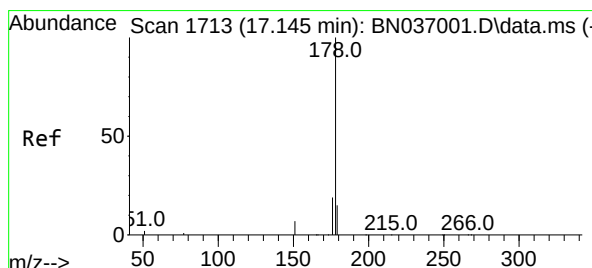
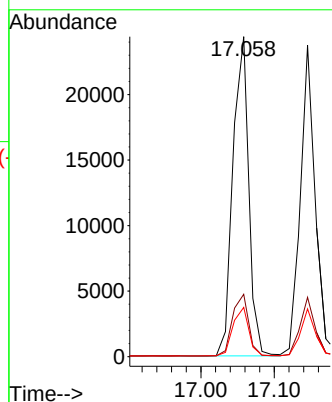
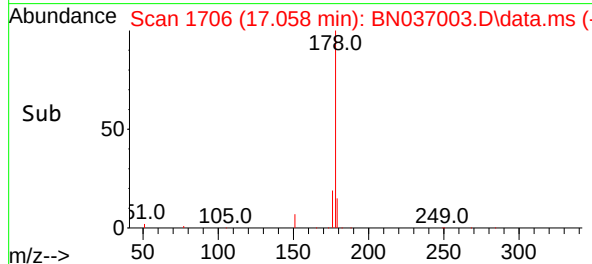
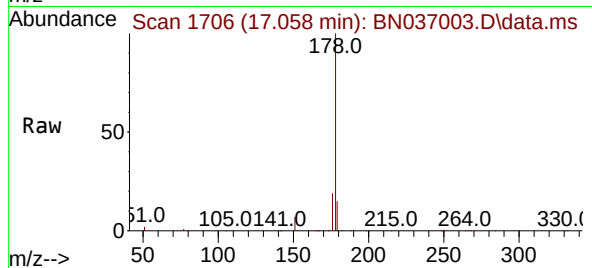




#25
Phenanthrene
Concen: 1.673 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

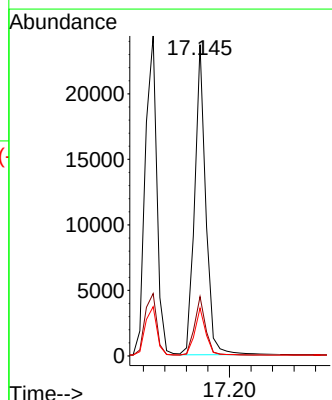
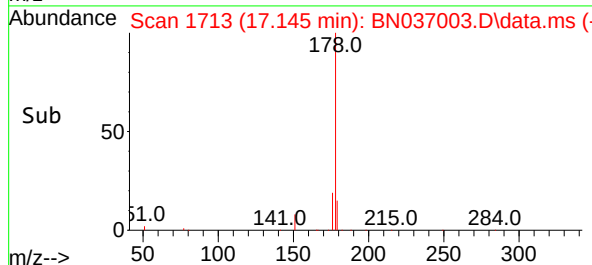
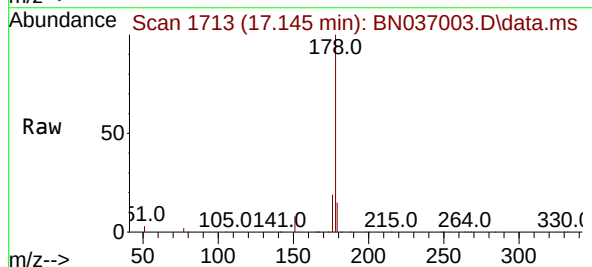
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

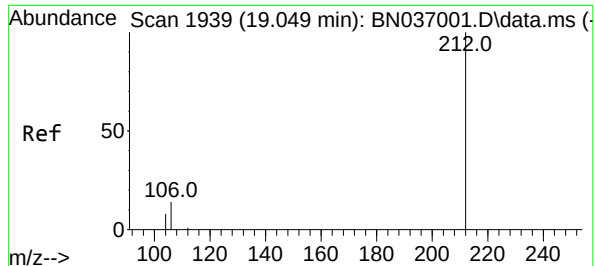
Tgt Ion:178 Resp: 36506
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.3 12.2 18.2



#26
Anthracene
Concen: 1.707 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:178 Resp: 33908
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.1 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.682 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

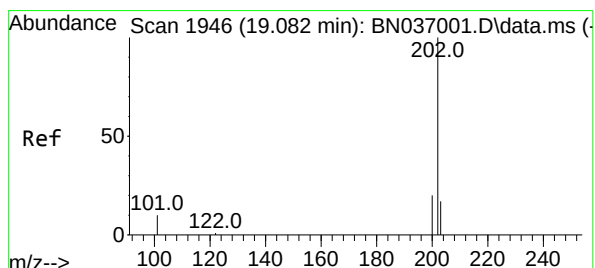
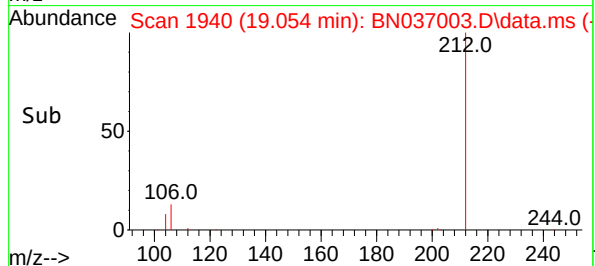
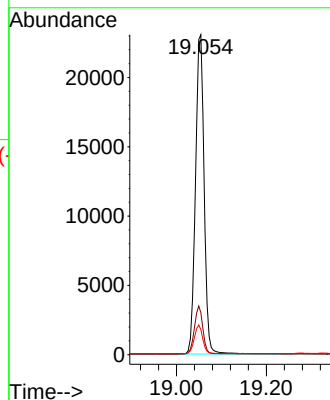
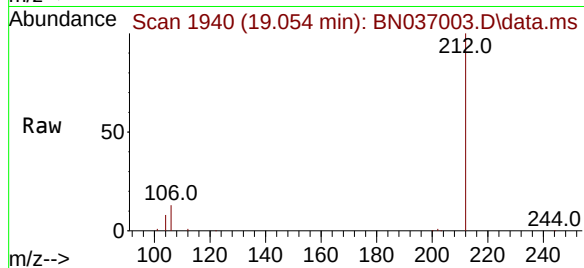
Tgt Ion:212 Resp: 30804

Ion Ratio Lower Upper

212 100

106 14.5 11.3 16.9

104 8.6 6.7 10.1



#28

Fluoranthene

Concen: 1.711 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

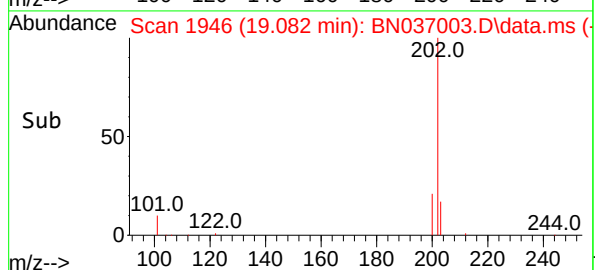
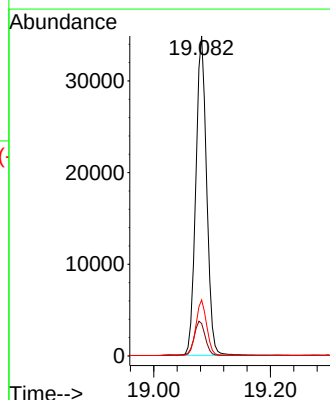
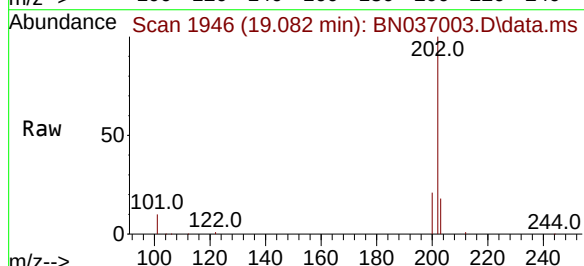
Tgt Ion:202 Resp: 44613

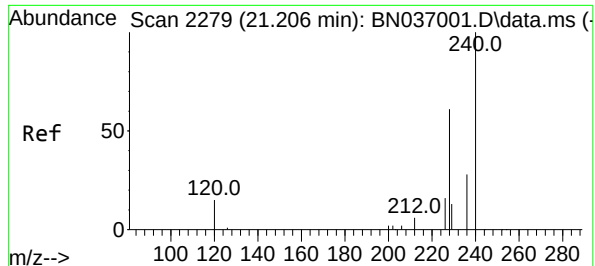
Ion Ratio Lower Upper

202 100

101 11.3 8.9 13.3

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

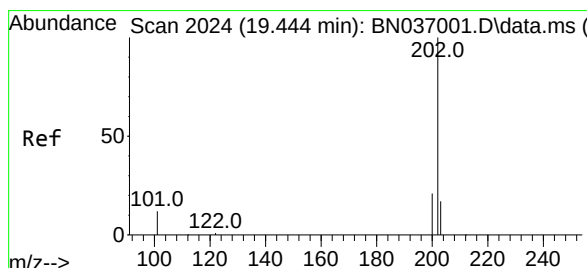
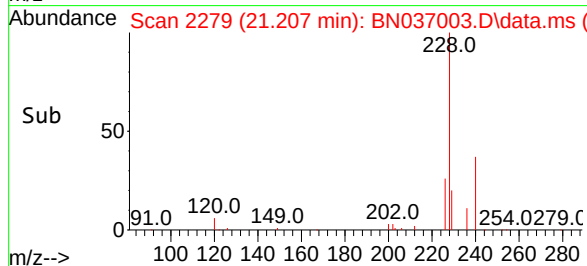
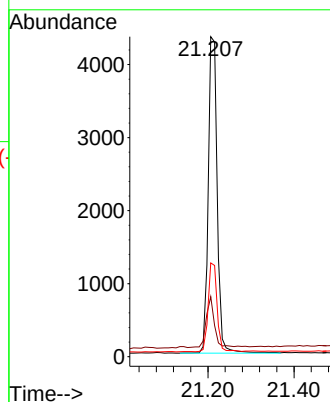
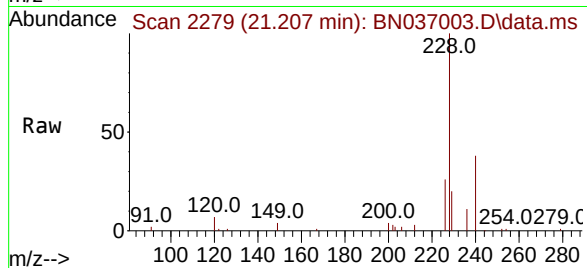
Tgt Ion:240 Resp: 6288

Ion Ratio Lower Upper

240 100

120 18.7 15.1 22.7

236 29.3 24.0 36.0



#30

Pyrene

Concen: 1.674 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

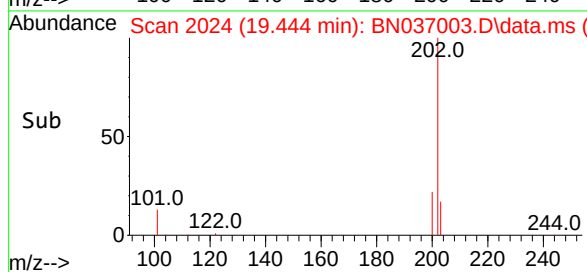
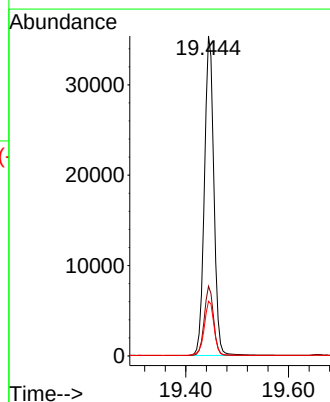
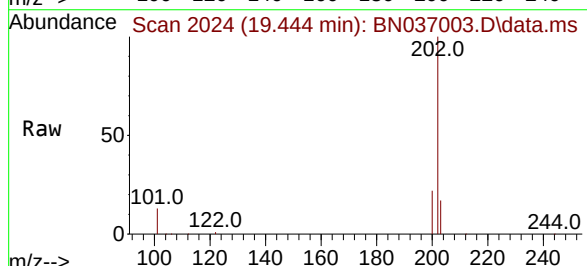
Tgt Ion:202 Resp: 45015

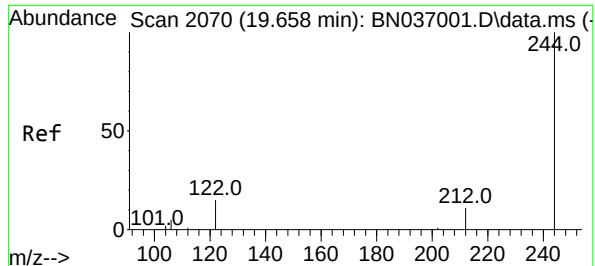
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4

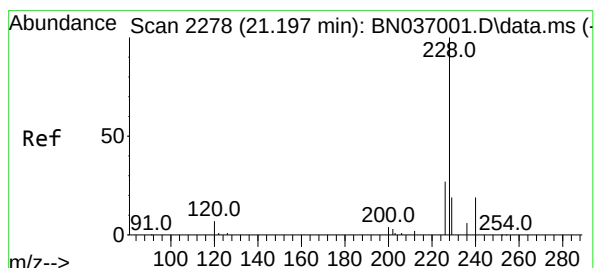
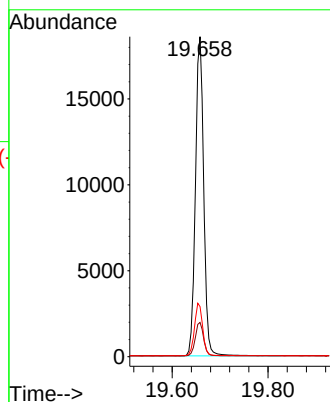
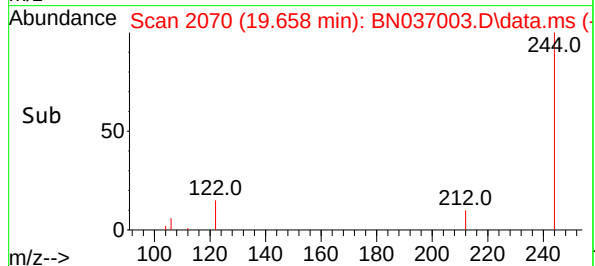
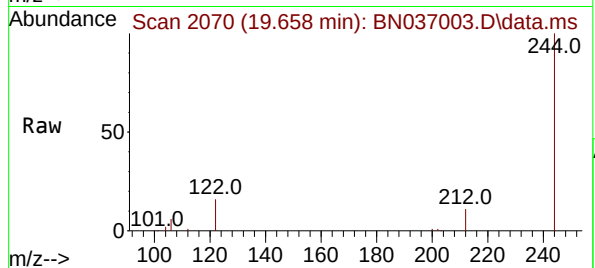




#31
Terphenyl-d14
Concen: 1.667 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

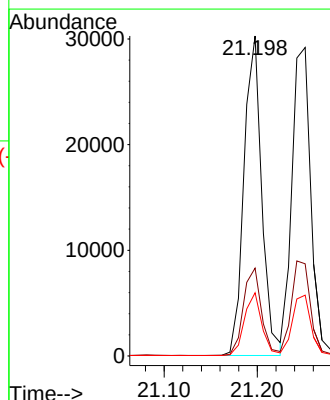
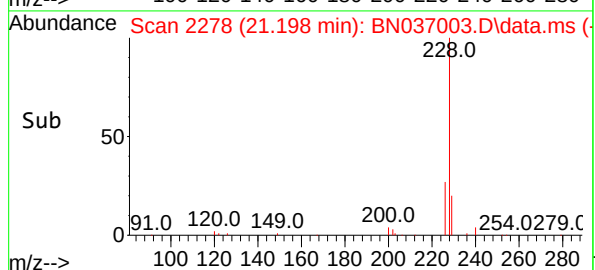
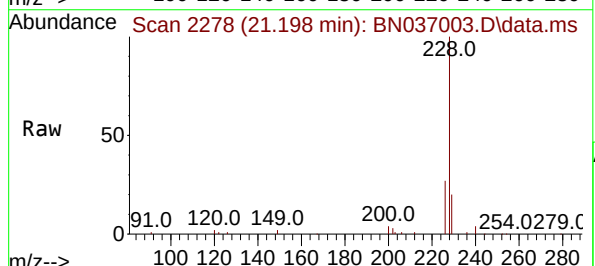
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

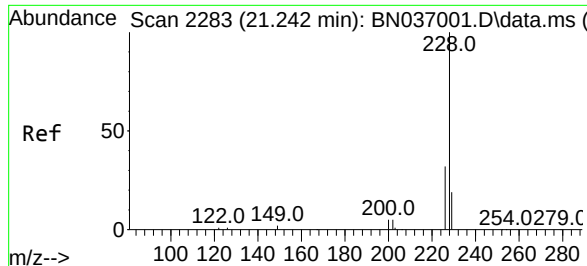
Tgt Ion:244 Resp: 22417
Ion Ratio Lower Upper
244 100
212 10.7 9.7 14.5
122 15.7 13.4 20.0



#32
Benzo(a)anthracene
Concen: 1.694 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:228 Resp: 40103
Ion Ratio Lower Upper
228 100
226 27.4 22.2 33.4
229 19.8 16.0 24.0





#33

Chrysene

Concen: 1.660 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

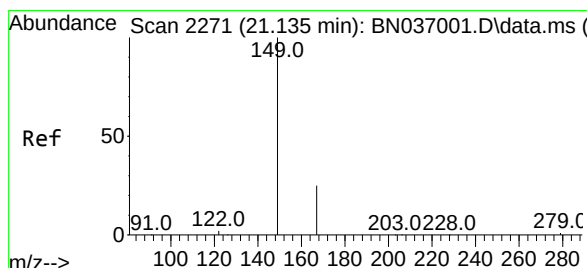
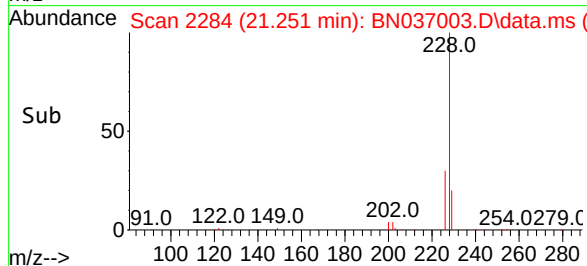
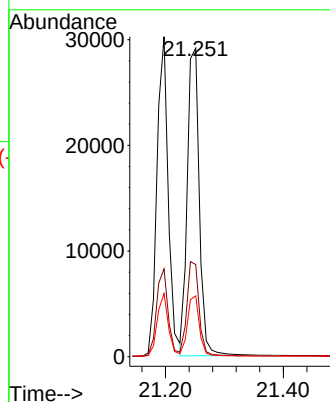
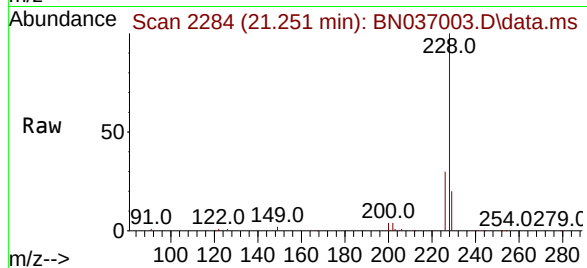
Tgt Ion:228 Resp: 41576

Ion Ratio Lower Upper

228 100

226 29.9 26.3 39.5

229 19.7 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.621 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

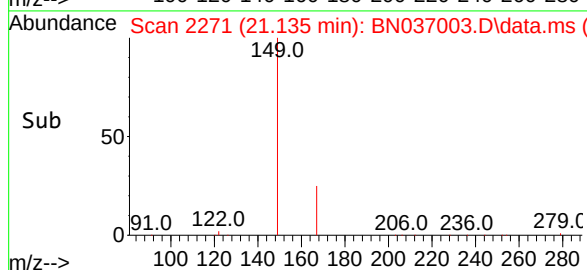
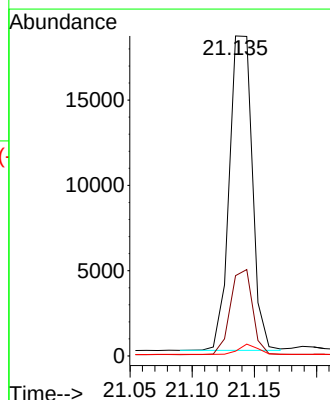
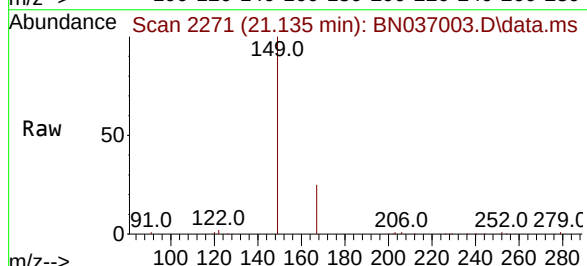
Tgt Ion:149 Resp: 23656

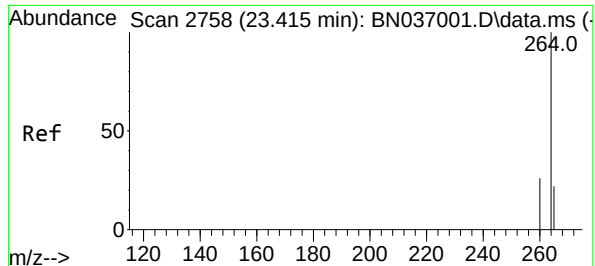
Ion Ratio Lower Upper

149 100

167 26.2 20.6 30.8

279 2.7 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

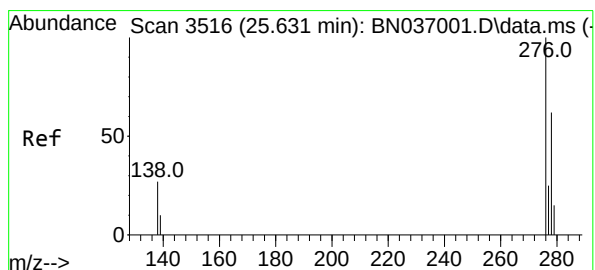
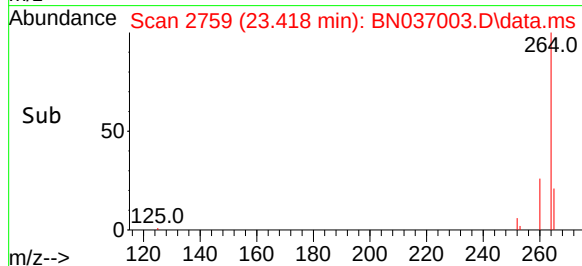
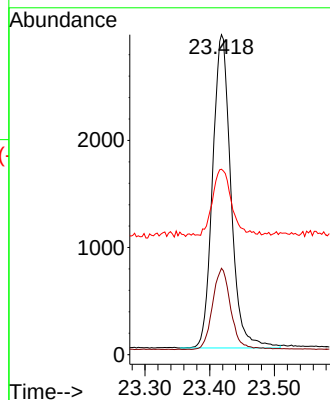
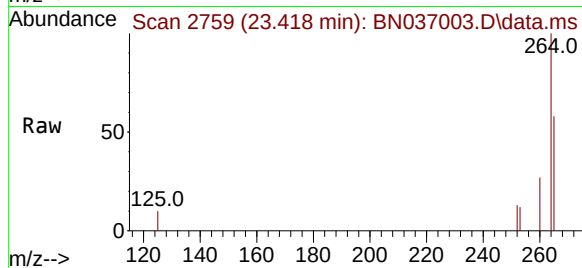
Tgt Ion:264 Resp: 5747

Ion Ratio Lower Upper

264 100

260 27.0 21.9 32.9

265 58.0 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.652 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

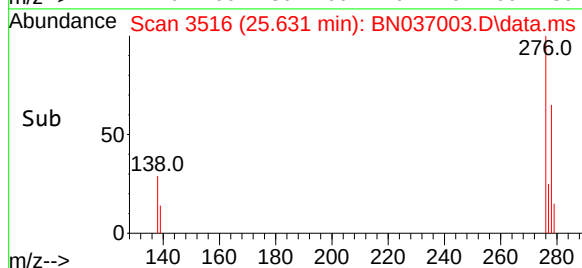
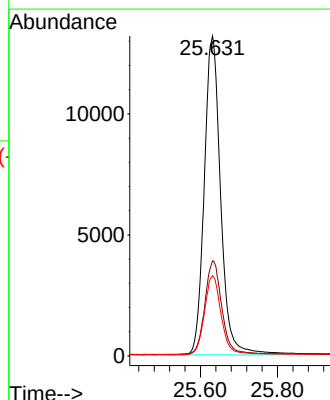
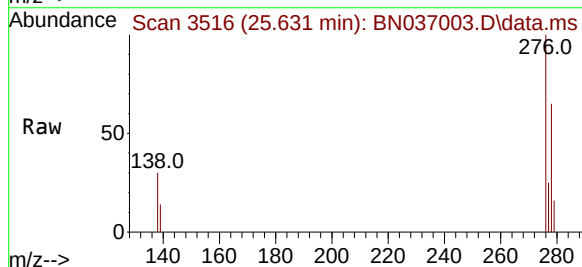
Tgt Ion:276 Resp: 38771

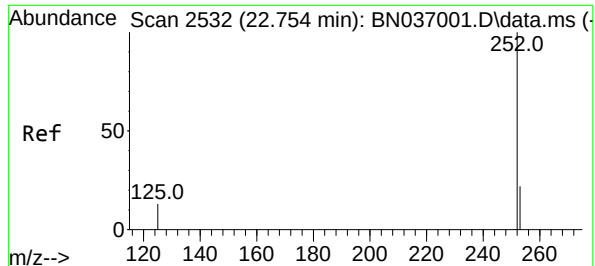
Ion Ratio Lower Upper

276 100

138 30.4 22.7 34.1

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.688 ng

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

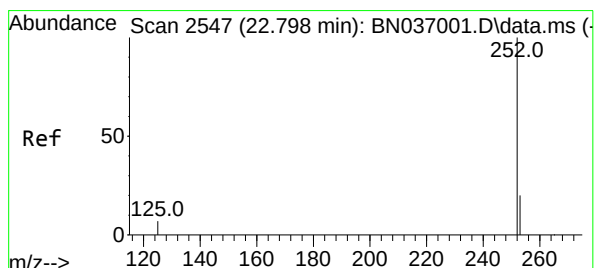
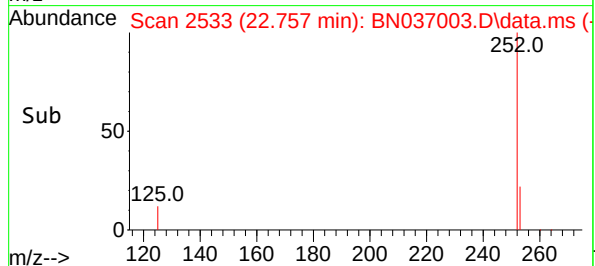
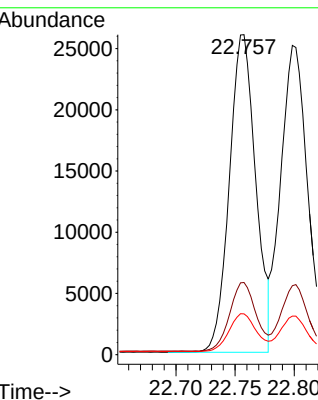
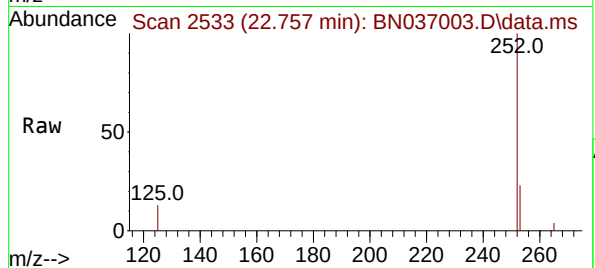
Tgt Ion:252 Resp: 40209

Ion Ratio Lower Upper

252 100

253 22.5 21.8 32.6

125 12.8 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 1.729 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

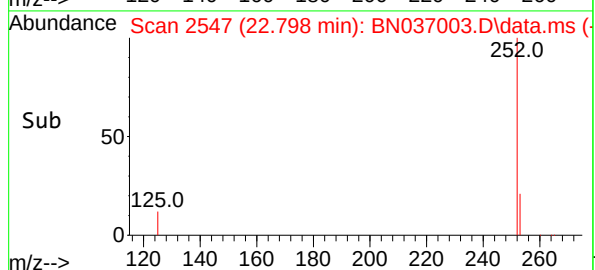
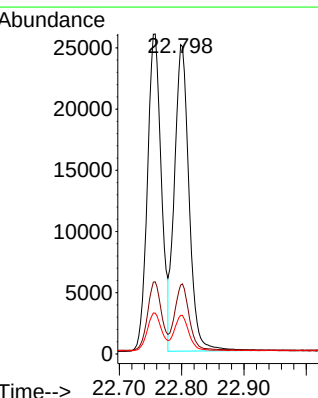
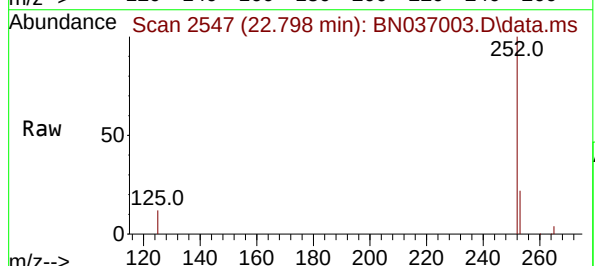
Tgt Ion:252 Resp: 40699

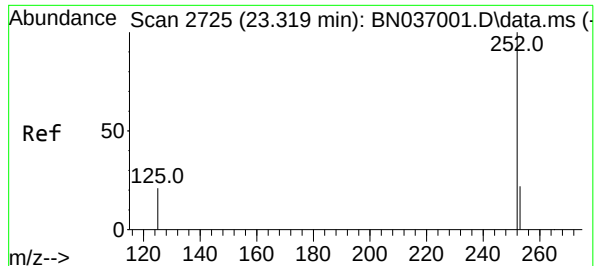
Ion Ratio Lower Upper

252 100

253 22.3 21.4 32.2

125 12.4 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 1.689 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

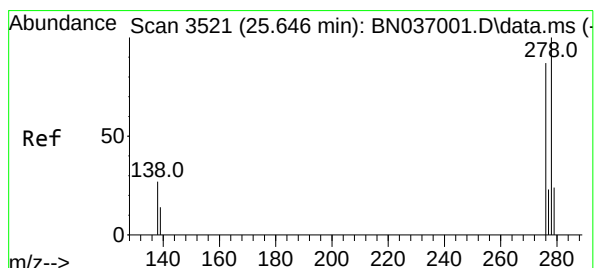
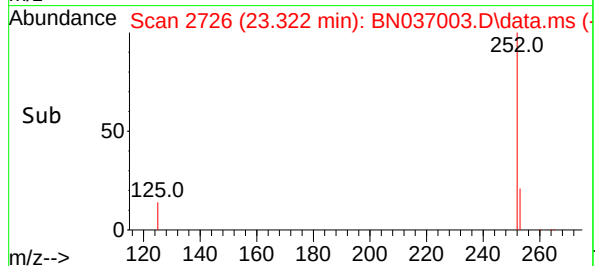
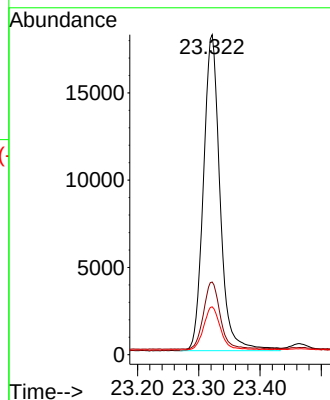
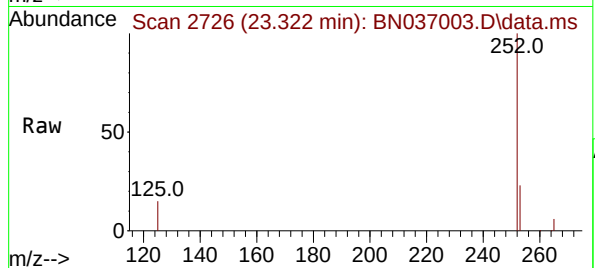
Tgt Ion:252 Resp: 34149

Ion Ratio Lower Upper

252 100

253 22.7 23.8 35.6#

125 15.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.685 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

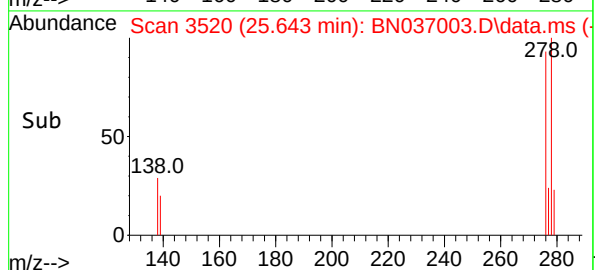
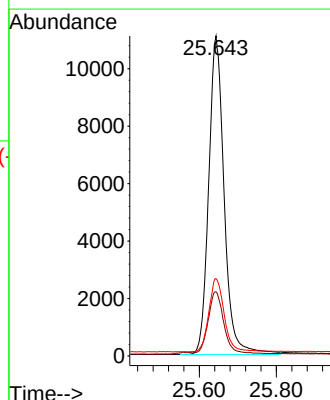
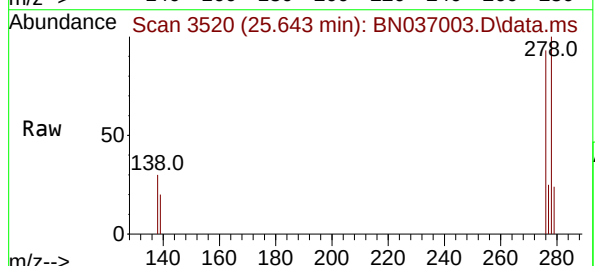
Tgt Ion:278 Resp: 30810

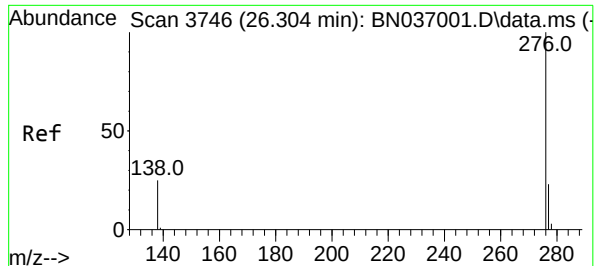
Ion Ratio Lower Upper

278 100

139 20.1 17.4 26.0

279 24.1 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 1.624 ng

RT: 26.307 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037003.D

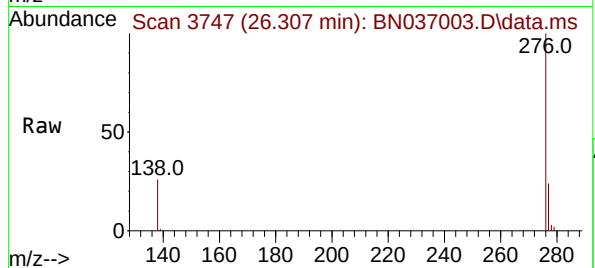
Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



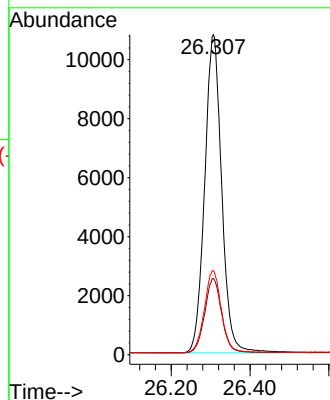
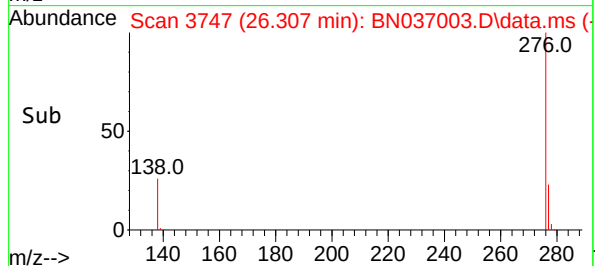
Tgt Ion:276 Resp: 32256

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 26.2 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037004.D
 Acq On : 13 May 2025 20:41
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: May 14 11:01:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

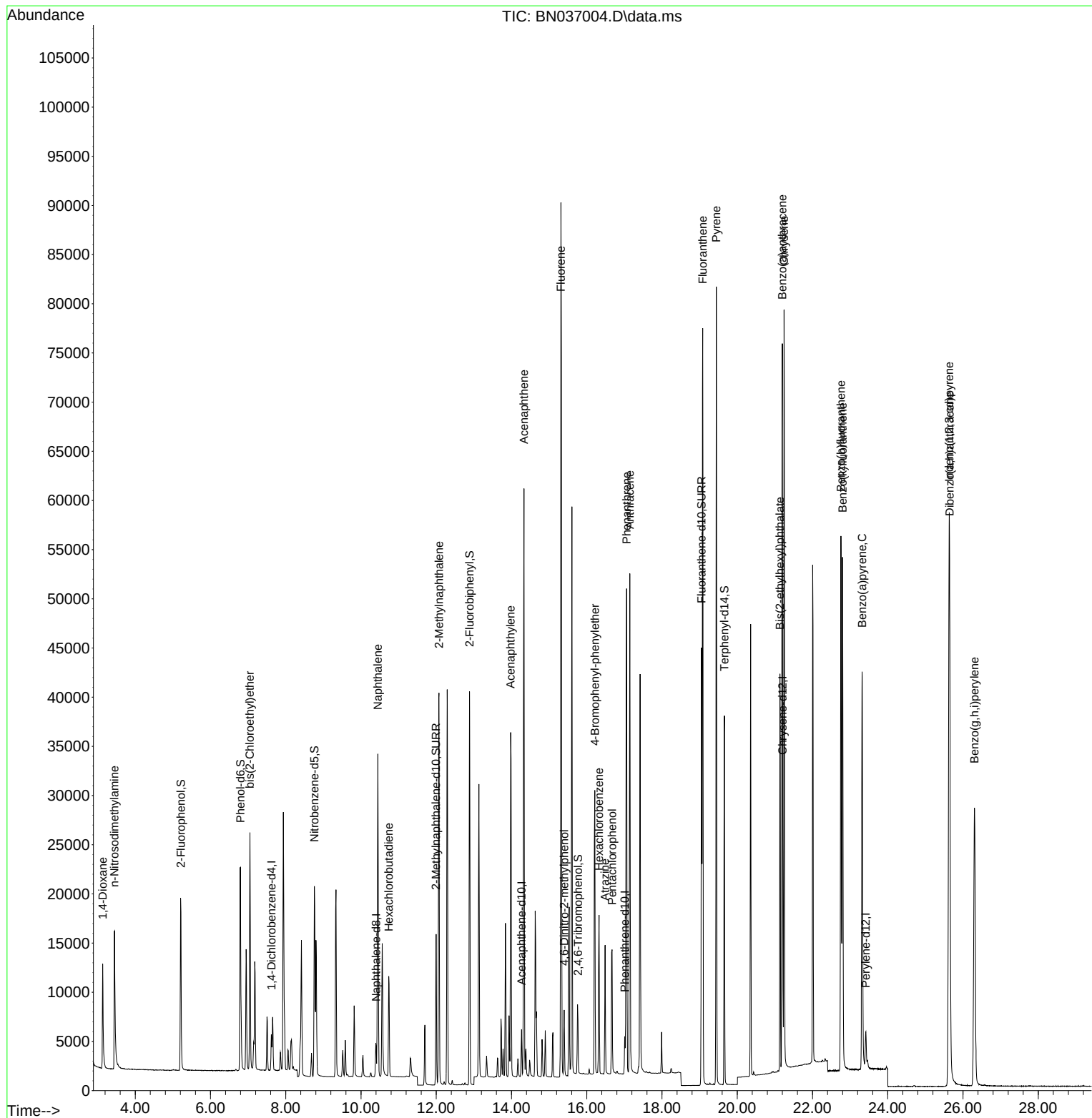
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1639	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4315	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	2482	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	4870	0.400	ng	0.00
29) Chrysene-d12	21.207	240	5021	0.400	ng	0.00
35) Perylene-d12	23.415	264	4705	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	12639	2.943	ng	0.00
5) Phenol-d6	6.795	99	16506	3.072	ng	0.00
8) Nitrobenzene-d5	8.760	82	14709	3.131	ng	-0.01
11) 2-Methylnaphthalene-d10	11.996	152	19801	3.260	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	3482	3.194	ng	0.00
15) 2-Fluorobiphenyl	12.883	172	33203	2.921	ng	0.00
27) Fluoranthene-d10	19.049	212	45238	3.388	ng	0.00
31) Terphenyl-d14	19.658	244	32768	3.051	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.133	88	6127	3.046	ng	98
3) n-Nitrosodimethylamine	3.444	42	12673	2.933	ng	# 94
6) bis(2-Chloroethyl)ether	7.048	93	15315	3.097	ng	99
9) Naphthalene	10.447	128	39782	3.120	ng	96
10) Hexachlorobutadiene	10.735	225	8153	3.046	ng	# 100
12) 2-Methylnaphthalene	12.072	142	26589	3.242	ng	97
16) Acenaphthylene	13.978	152	39649	3.282	ng	100
17) Acenaphthene	14.331	154	25773	3.265	ng	98
18) Fluorene	15.314	166	34177	3.300	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	4002	3.111	ng	# 70
21) 4-Bromophenyl-phenylether	16.214	248	10166	3.305	ng	92
22) Hexachlorobenzene	16.326	284	10501	3.189	ng	98
23) Atrazine	16.487	200	9103	3.393	ng	# 90
24) Pentachlorophenol	16.674	266	6329	3.460	ng	98
25) Phenanthrene	17.058	178	52084	3.272	ng	100
26) Anthracene	17.145	178	49070	3.388	ng	100
28) Fluoranthene	19.082	202	65127	3.426	ng	99
30) Pyrene	19.444	202	65923	3.069	ng	100
32) Benzo(a)anthracene	21.198	228	61105	3.232	ng	99
33) Chrysene	21.242	228	62672	3.134	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	36266	3.113	ng	99
36) Indeno(1,2,3-cd)pyrene	25.631	276	65193	3.393	ng	98
37) Benzo(b)fluoranthene	22.755	252	63928	3.277	ng	# 89
38) Benzo(k)fluoranthene	22.798	252	62537	3.245	ng	# 91
39) Benzo(a)pyrene	23.319	252	54366	3.284	ng	# 81
40) Dibenzo(a,h)anthracene	25.643	278	51783	3.460	ng	# 91
41) Benzo(g,h,i)perylene	26.304	276	54177	3.331	ng	97

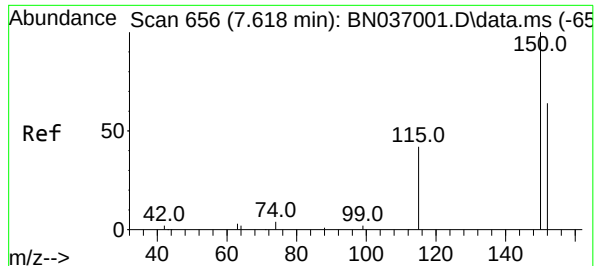
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037004.D
Acq On : 13 May 2025 20:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: May 14 11:01:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

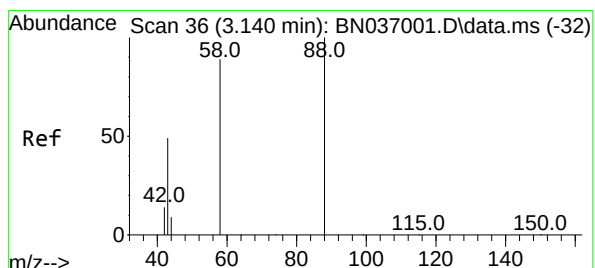
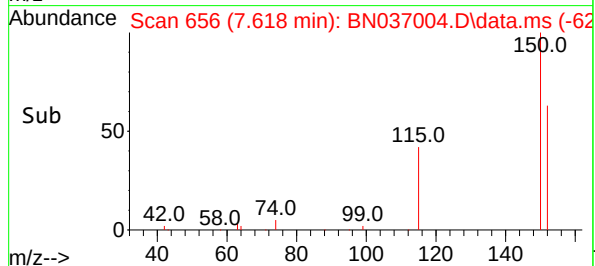
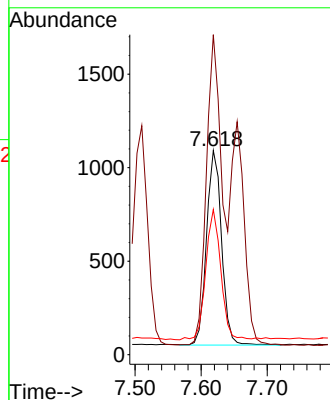
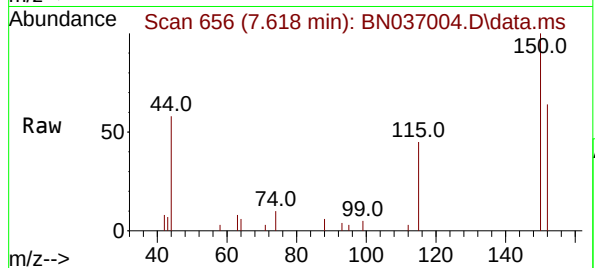




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

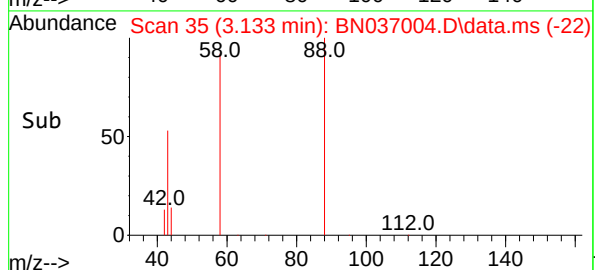
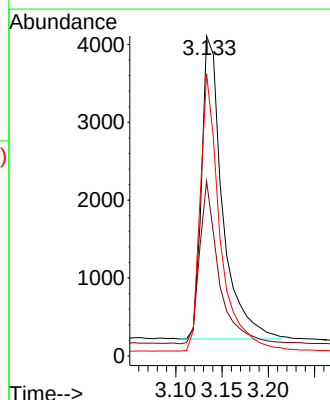
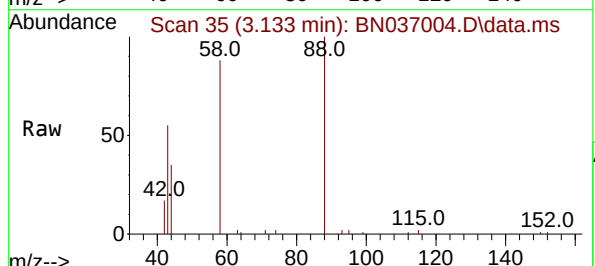
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

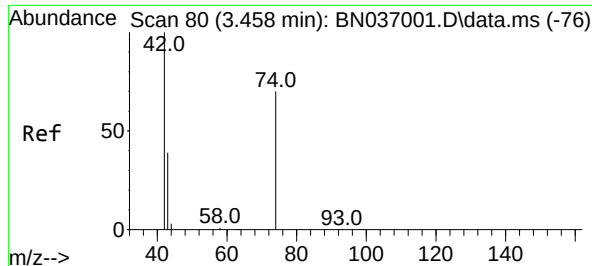
Tgt Ion:152 Resp: 1639
Ion Ratio Lower Upper
152 100
150 156.7 123.9 185.9
115 71.1 55.8 83.8



#2
1,4-Dioxane
Concen: 3.046 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion: 88 Resp: 6127
Ion Ratio Lower Upper
88 100
43 49.5 37.4 56.0
58 86.7 68.8 103.2

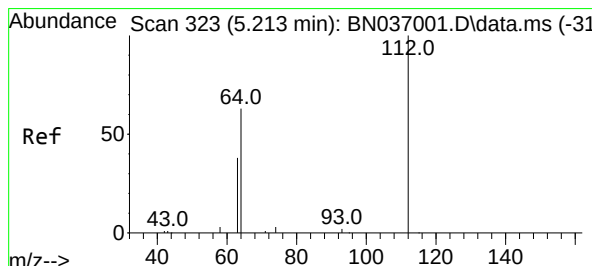
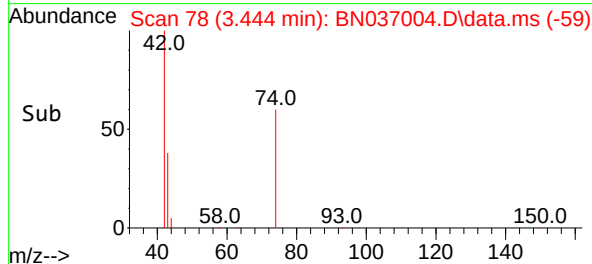
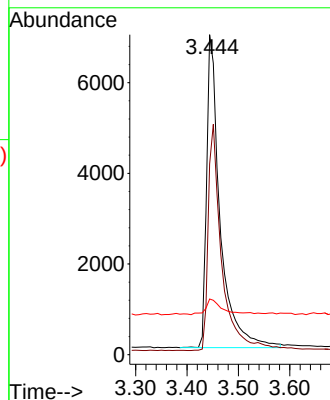
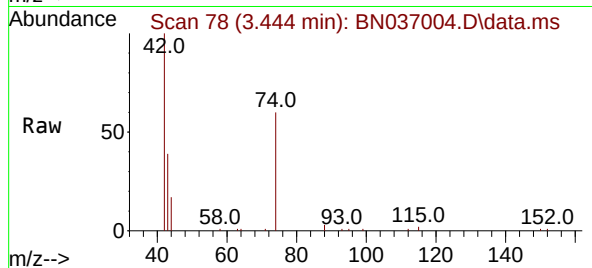




#3
n-Nitrosodimethylamine
Concen: 2.933 ng
RT: 3.444 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

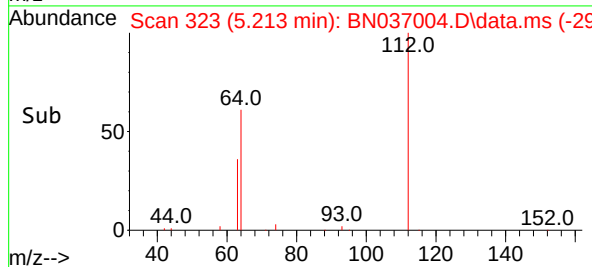
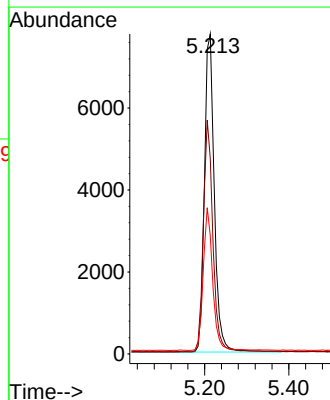
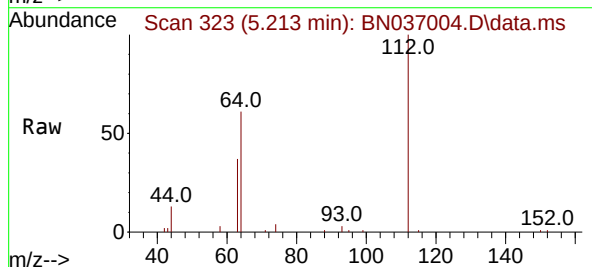
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

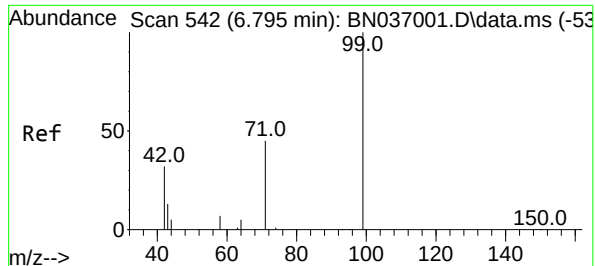
Tgt Ion: 42 Resp: 12673
Ion Ratio Lower Upper
42 100
74 71.8 59.8 89.6
44 6.5 11.9 17.9#



#4
2-Fluorophenol
Concen: 2.943 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion: 112 Resp: 12639
Ion Ratio Lower Upper
112 100
64 70.2 55.7 83.5
63 42.6 34.6 51.8

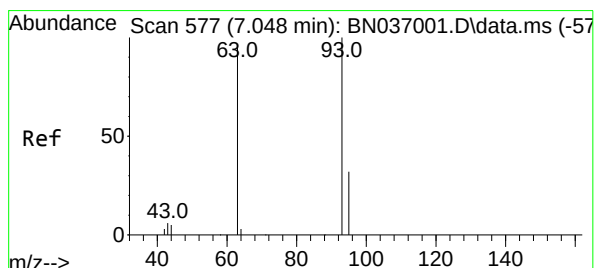
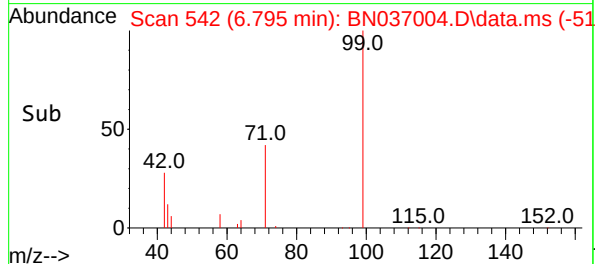
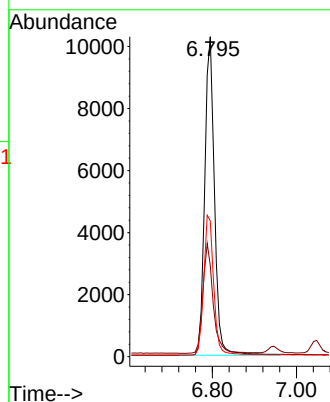
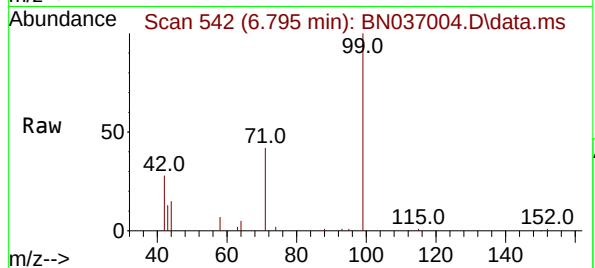




#5
Phenol-d6
Concen: 3.072 ng
RT: 6.795 min Scan# 542
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

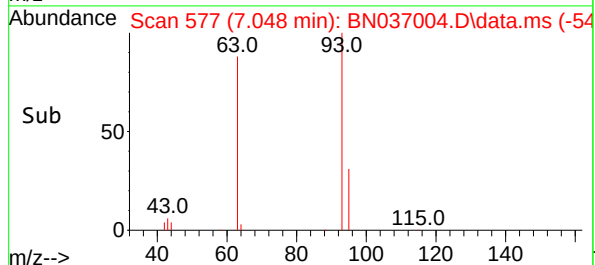
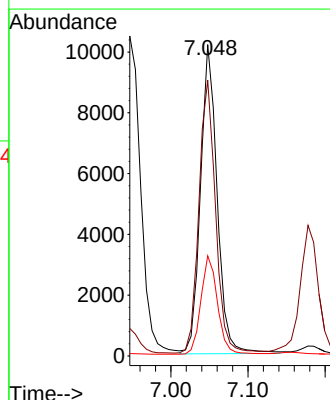
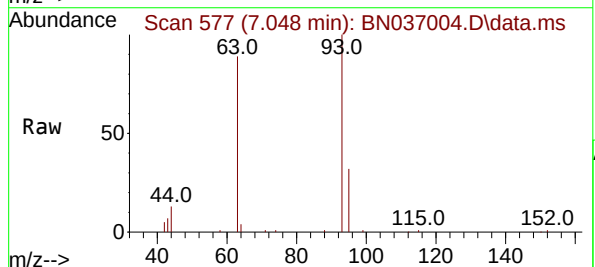
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

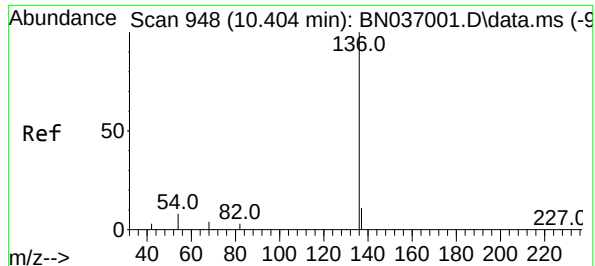
Tgt Ion: 99 Resp: 16506
Ion Ratio Lower Upper
99 100
42 36.1 29.3 43.9
71 45.3 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 3.097 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion: 93 Resp: 15315
Ion Ratio Lower Upper
93 100
63 87.8 70.1 105.1
95 31.8 26.2 39.2

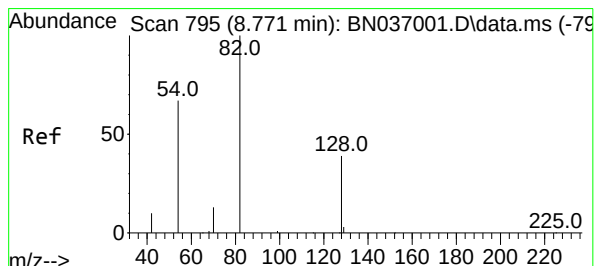
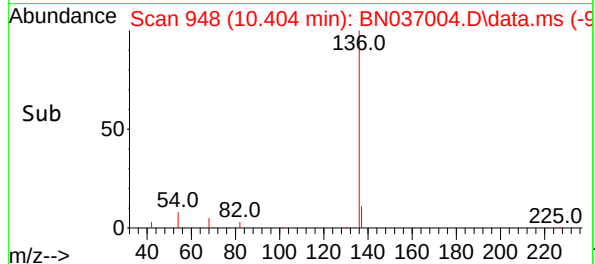
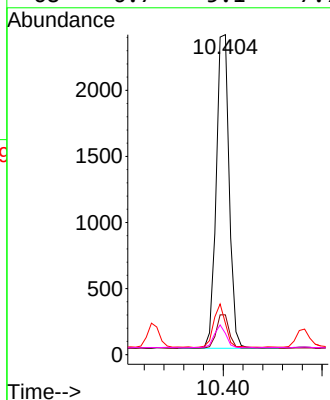
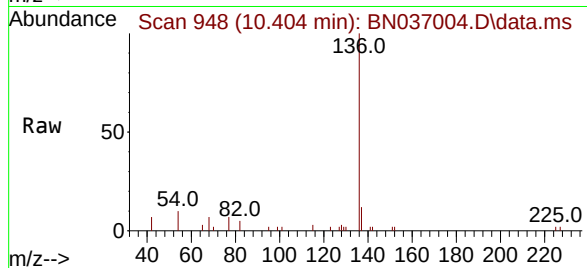




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

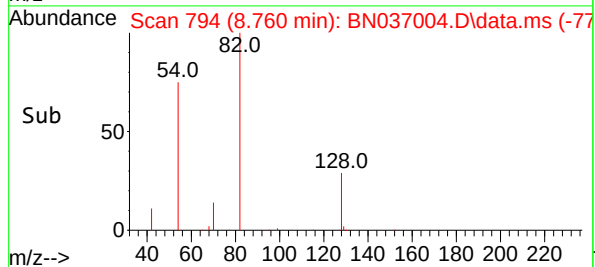
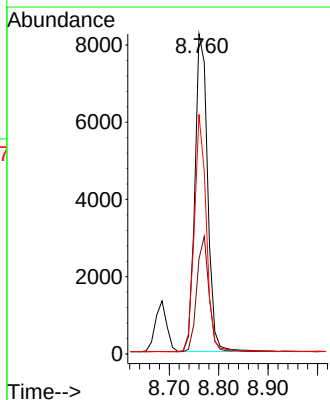
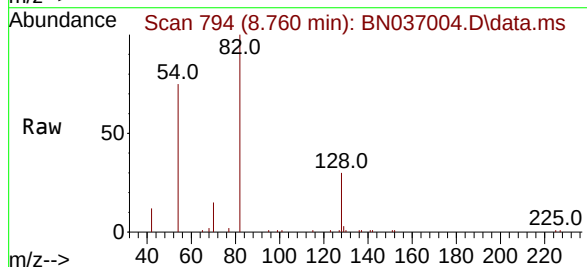
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BNA_N
ClientSampleId :
SSTDICC3.2

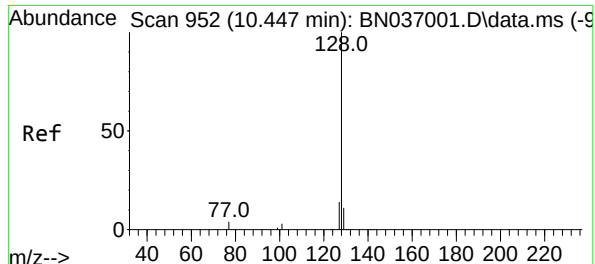
Tgt Ion:	136	Resp:	4315
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	9.8	8.5	12.7
68	6.7	5.1	7.7



#8
Nitrobenzene-d5
Concen: 3.131 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:	82	Resp:	14709
Ion	Ratio	Lower	Upper
82	100		
128	29.7	34.0	51.0#
54	74.8	55.0	82.4





#9

Naphthalene

Concen: 3.120 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

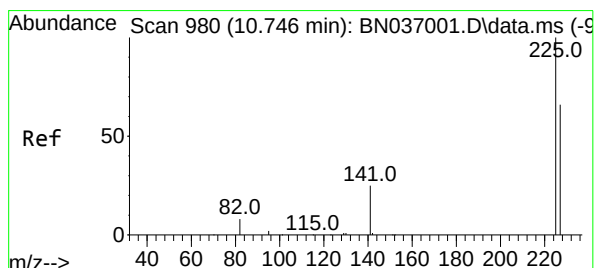
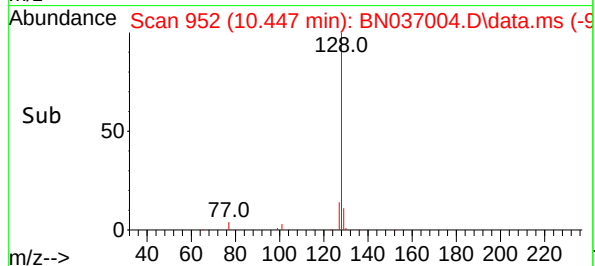
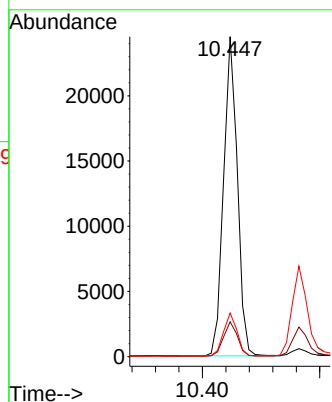
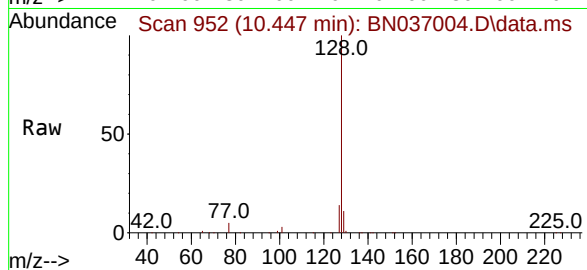
Tgt Ion:128 Resp: 39782

Ion Ratio Lower Upper

128 100

129 10.9 9.7 14.5

127 13.7 12.4 18.6



#10

Hexachlorobutadiene

Concen: 3.046 ng

RT: 10.735 min Scan# 979

Delta R.T. -0.011 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

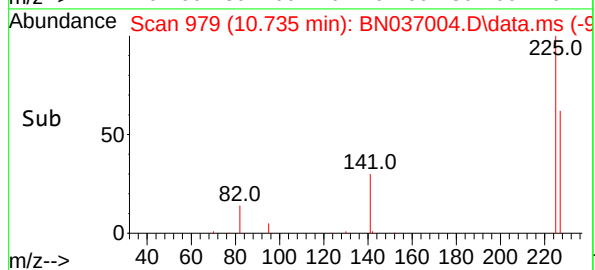
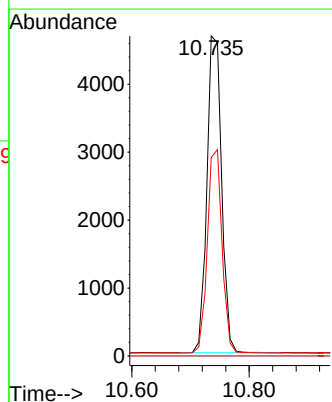
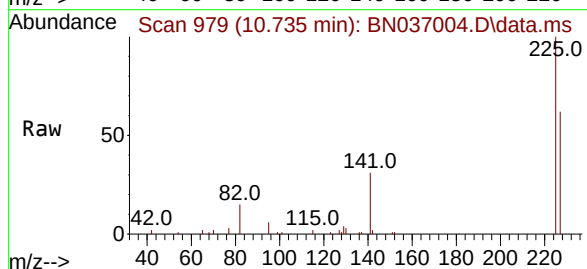
Tgt Ion:225 Resp: 8153

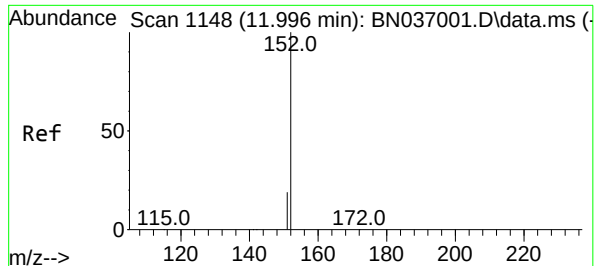
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 50.9 76.3

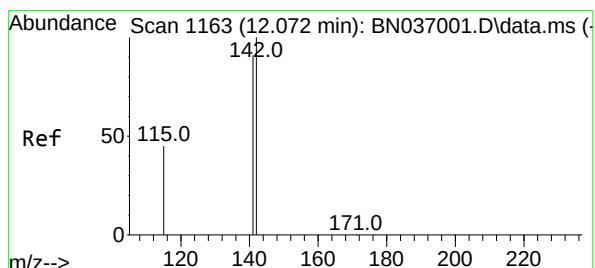
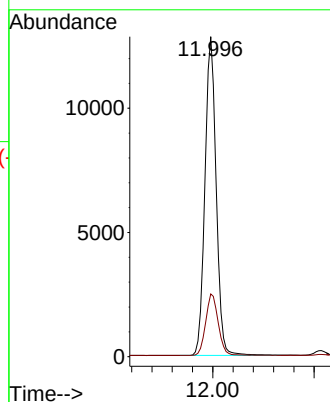
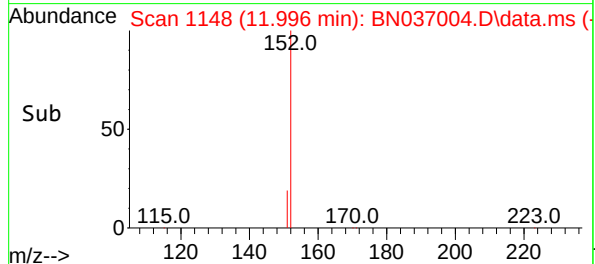
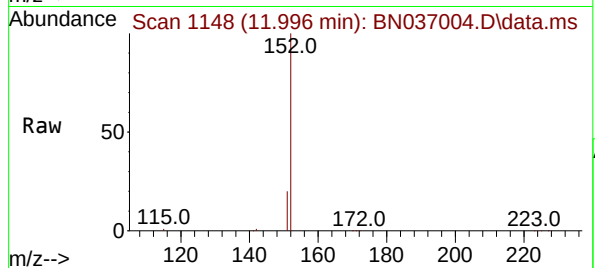




#11
2-Methylnaphthalene-d10
Concen: 3.260 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

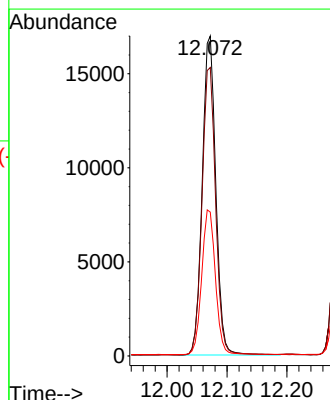
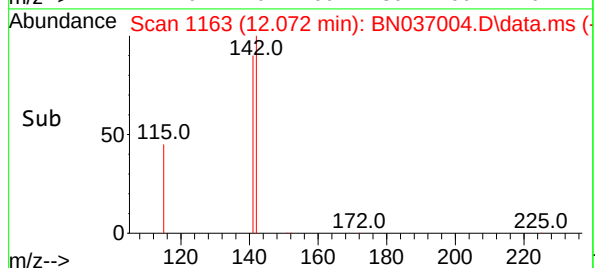
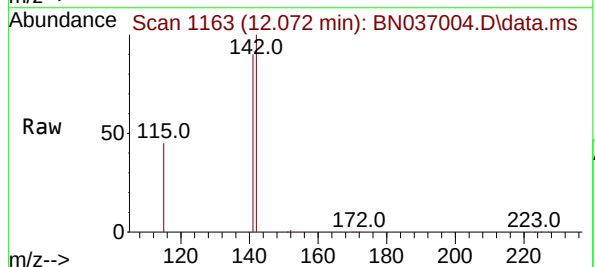
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

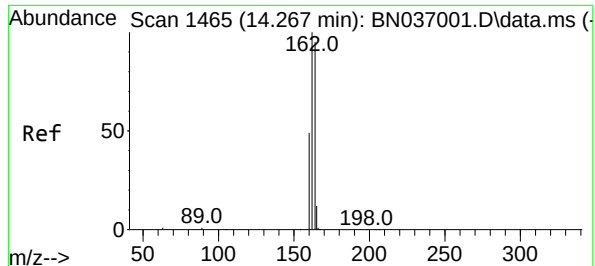
Tgt Ion:152 Resp: 19801
Ion Ratio Lower Upper
152 100
151 21.5 17.5 26.3



#12
2-Methylnaphthalene
Concen: 3.242 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:142 Resp: 26589
Ion Ratio Lower Upper
142 100
141 90.2 73.3 109.9
115 45.0 38.4 57.6

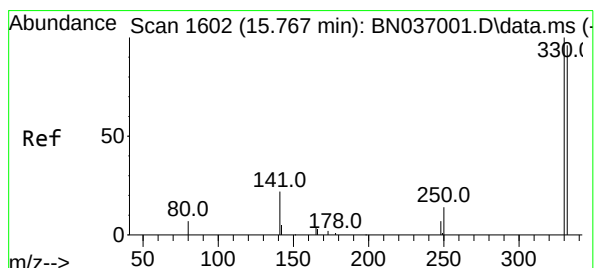
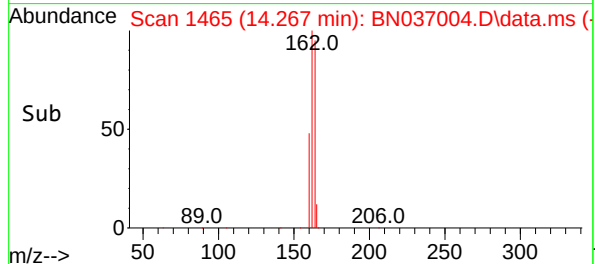
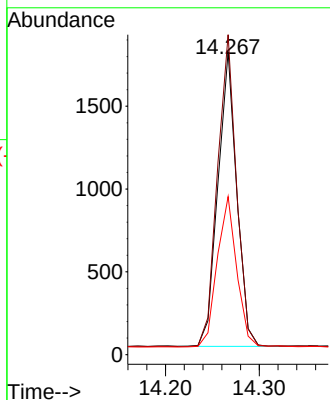
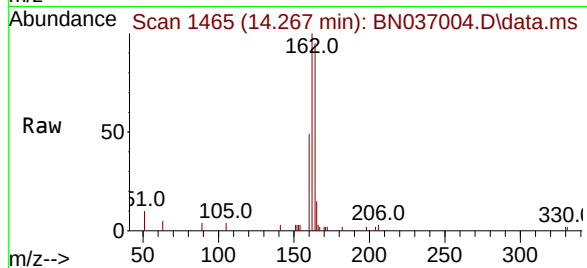




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

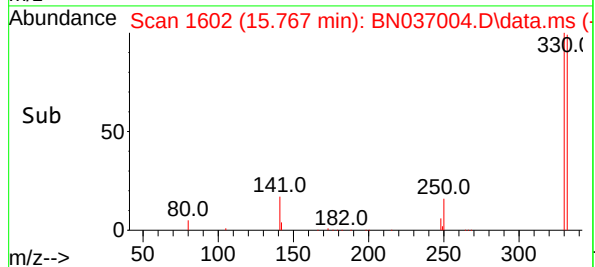
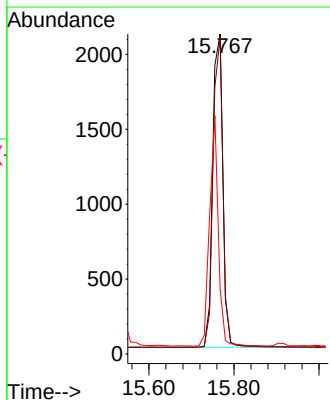
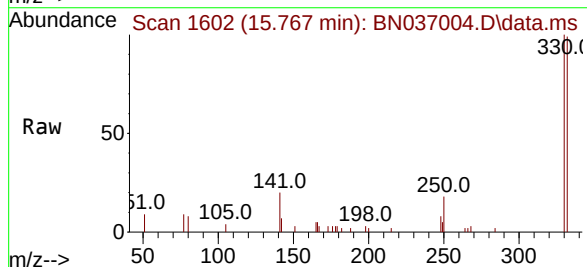
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

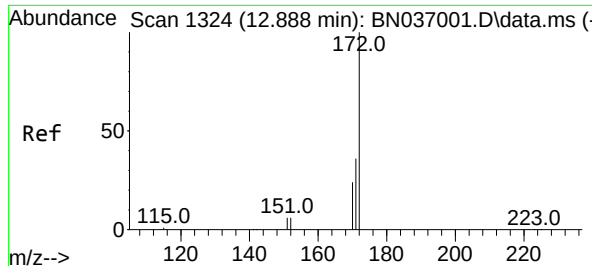
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	84.2	126.4
160	52.1	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 3.194 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.6	73.8	110.8
141	63.0	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 2.921 ng

RT: 12.883 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

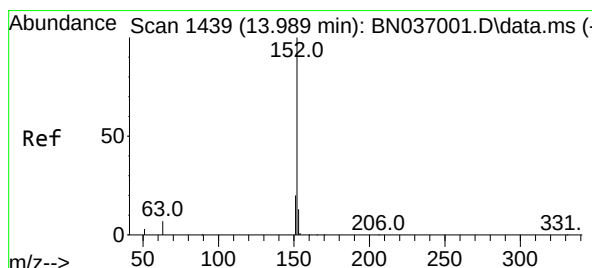
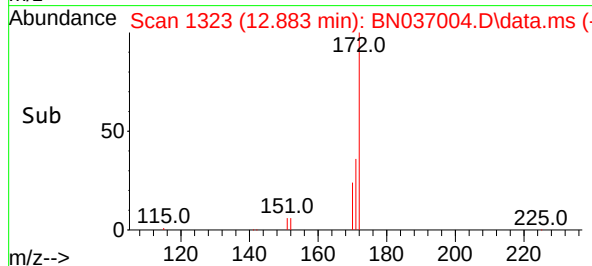
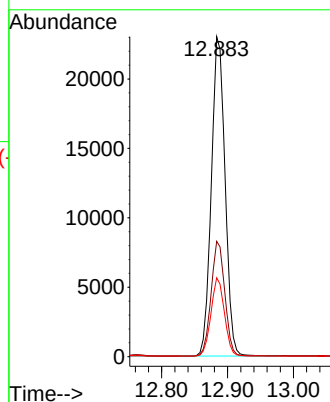
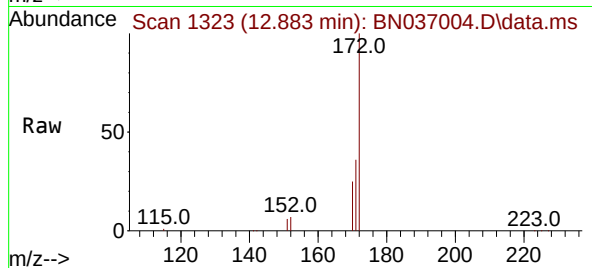
Tgt Ion:172 Resp: 33203

Ion Ratio Lower Upper

172 100

171 36.1 29.2 43.8

170 24.6 20.5 30.7



#16

Acenaphthylene

Concen: 3.282 ng

RT: 13.978 min Scan# 1438

Delta R.T. -0.011 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

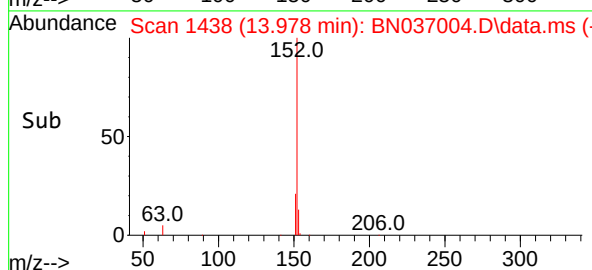
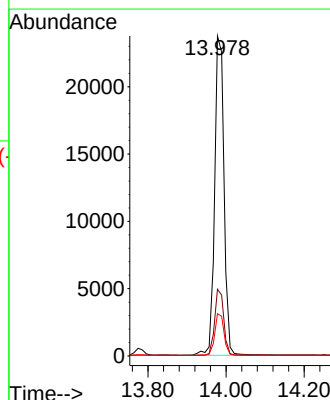
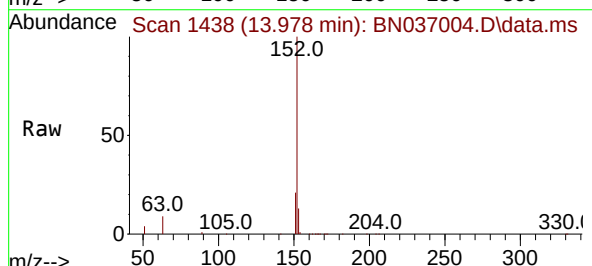
Tgt Ion:152 Resp: 39649

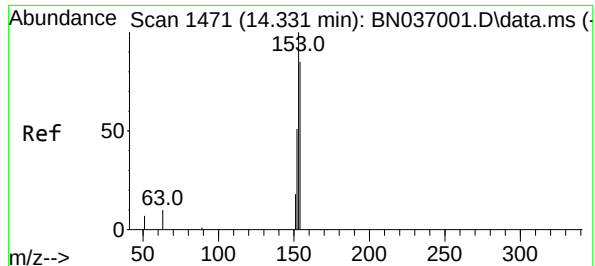
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 3.265 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

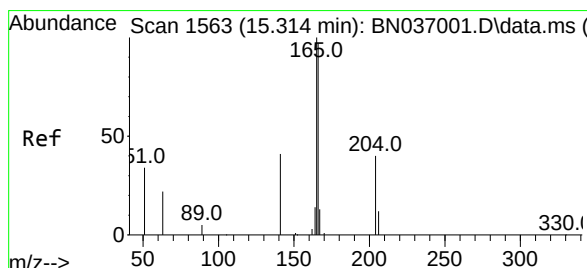
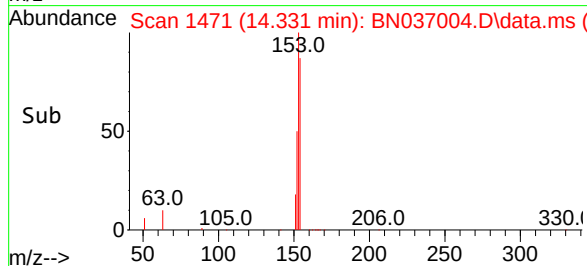
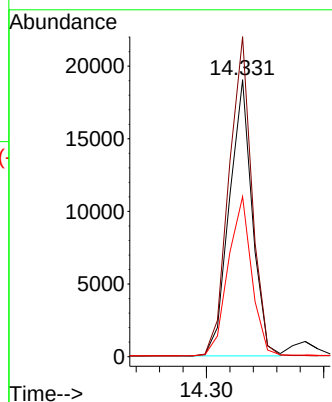
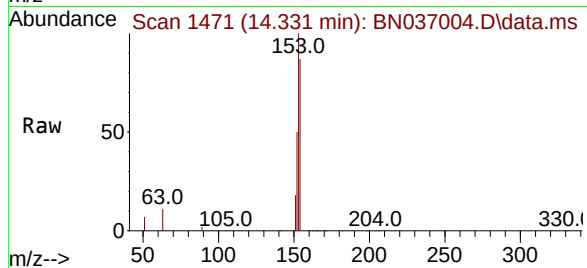
Tgt Ion:154 Resp: 25773

Ion Ratio Lower Upper

154 100

153 116.1 94.2 141.4

152 59.7 49.4 74.0



#18

Fluorene

Concen: 3.300 ng

RT: 15.314 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

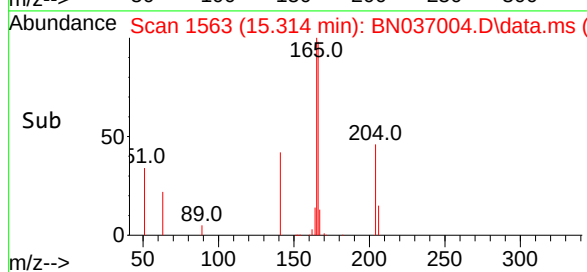
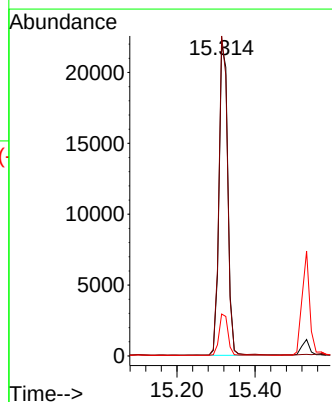
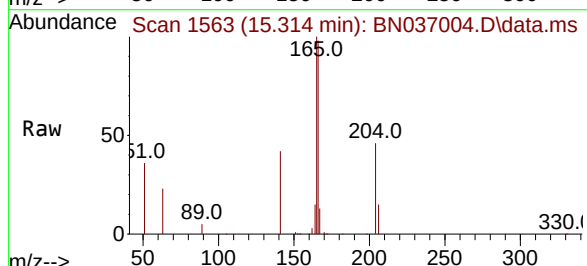
Tgt Ion:166 Resp: 34177

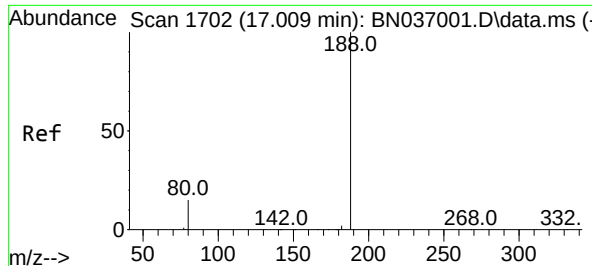
Ion Ratio Lower Upper

166 100

165 100.0 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

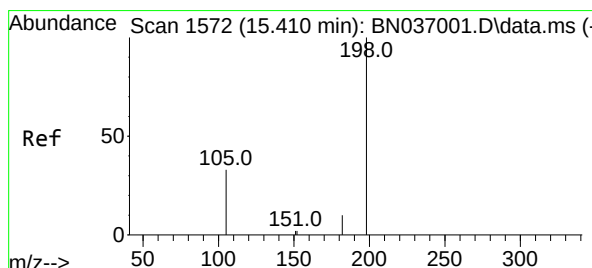
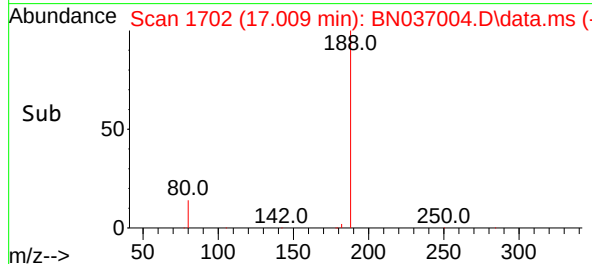
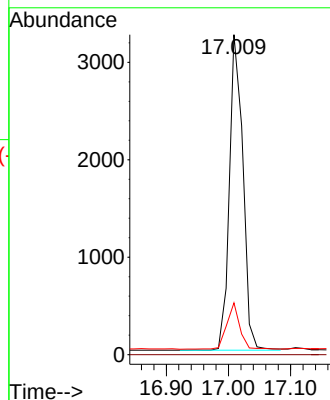
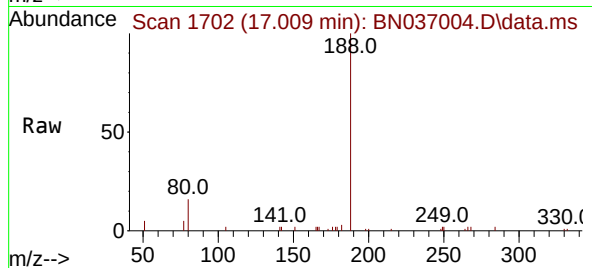
Tgt Ion:188 Resp: 4870

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.2 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.111 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

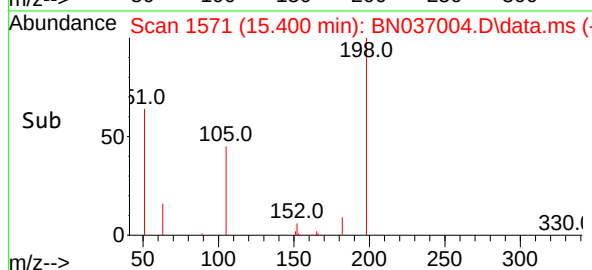
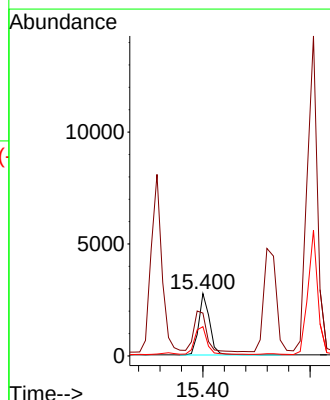
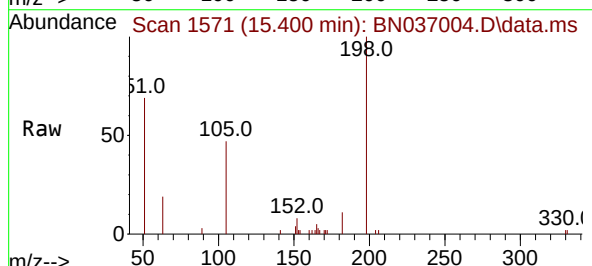
Tgt Ion:198 Resp: 4002

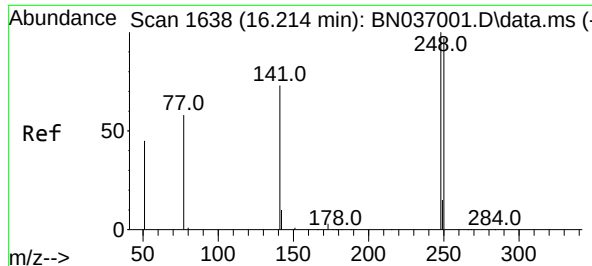
Ion Ratio Lower Upper

198 100

51 68.7 87.8 131.6#

105 47.0 44.2 66.4

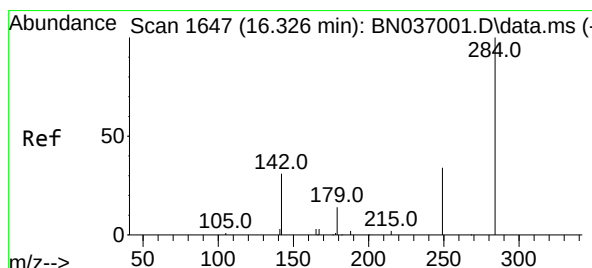
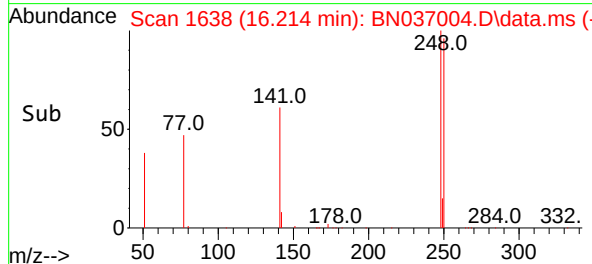
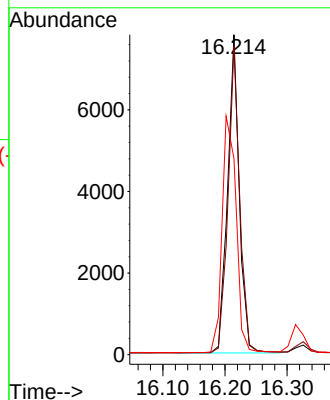
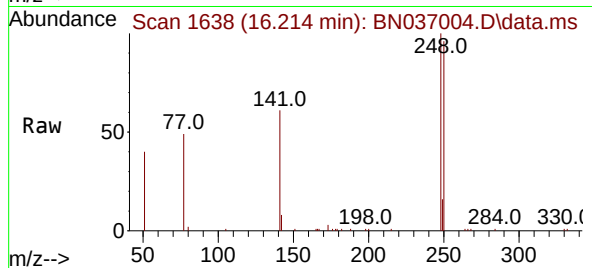




#21
4-Bromophenyl-phenylether
Concen: 3.305 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

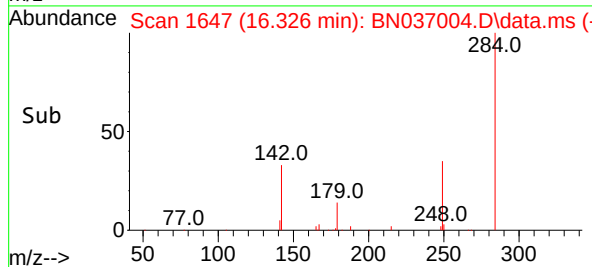
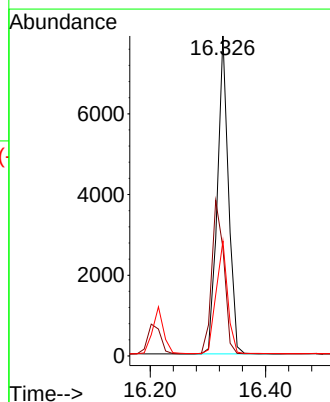
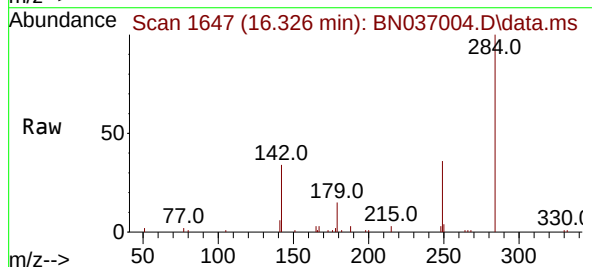
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

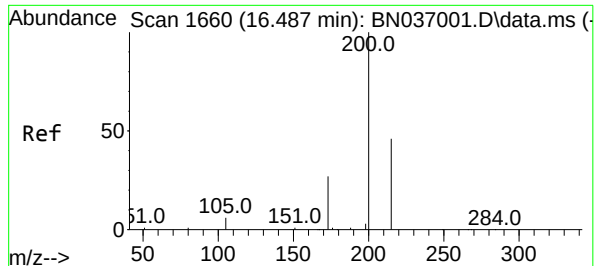
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.3	78.1	117.1
141	61.3	59.7	89.5



#22
Hexachlorobenzene
Concen: 3.189 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.9	41.2	61.8
249	36.7	28.7	43.1

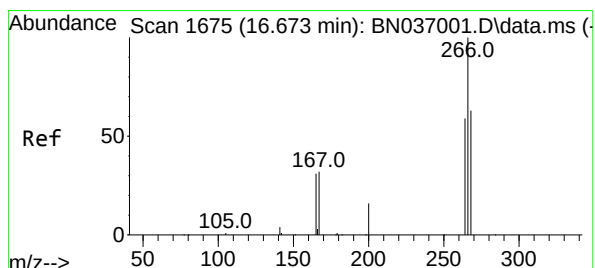
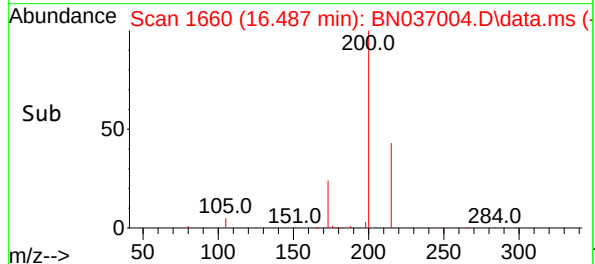
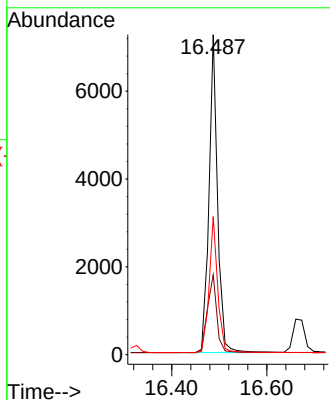
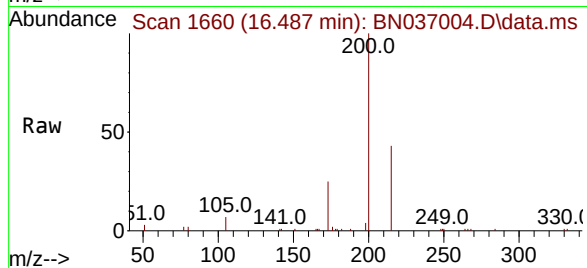




#23
Atrazine
Concen: 3.393 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

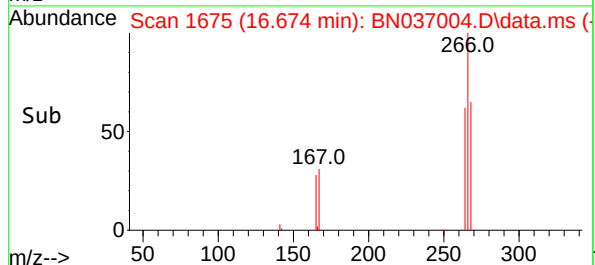
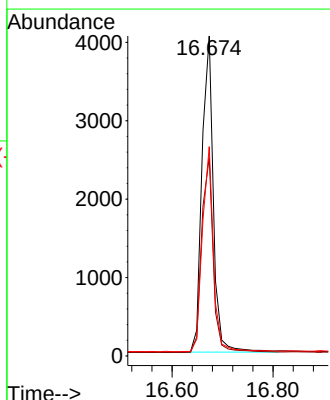
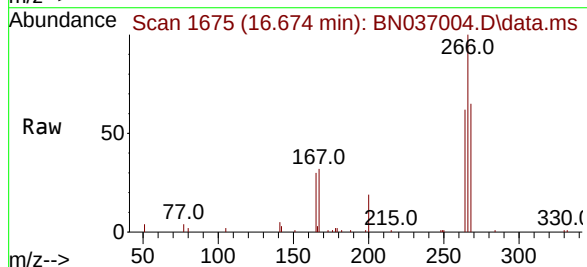
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

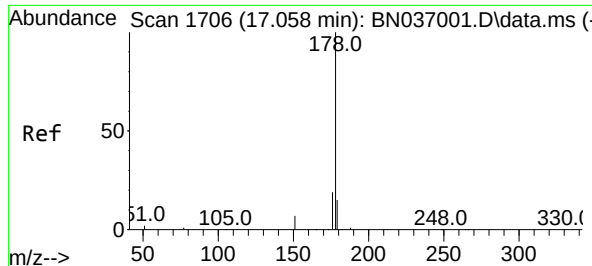
Tgt Ion:200 Resp: 9103
Ion Ratio Lower Upper
200 100
173 24.9 25.2 37.8#
215 43.2 39.3 58.9



#24
Pentachlorophenol
Concen: 3.460 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:266 Resp: 6329
Ion Ratio Lower Upper
266 100
264 62.8 47.9 71.9
268 62.9 50.0 75.0

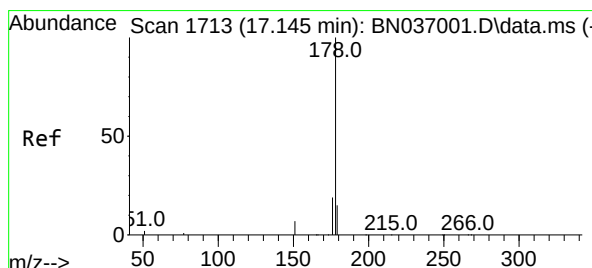
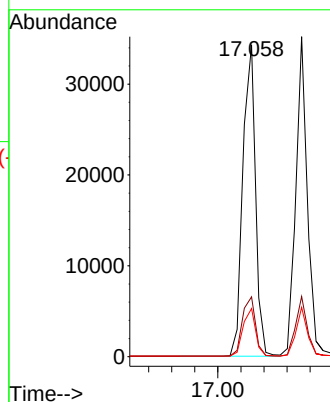
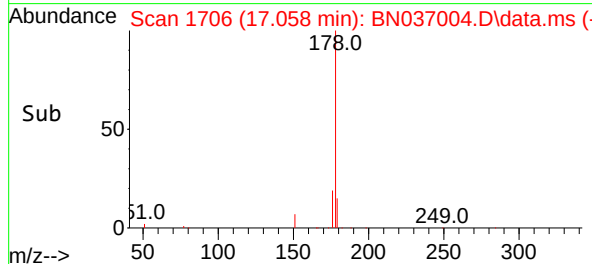
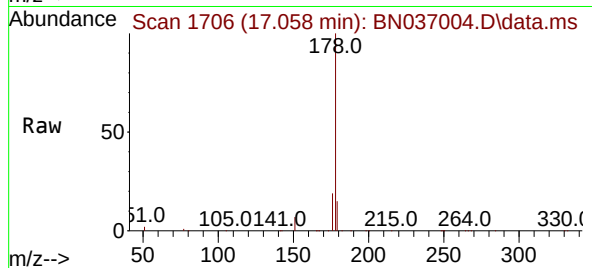




#25
Phenanthrene
Concen: 3.272 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

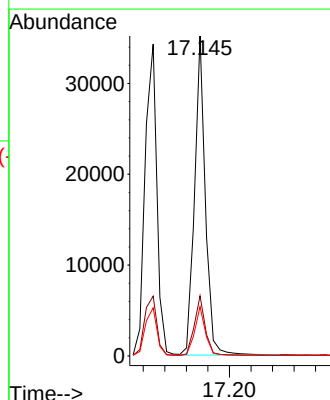
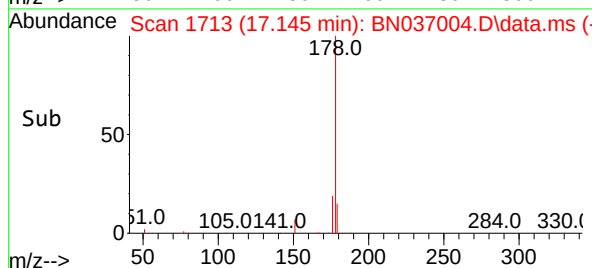
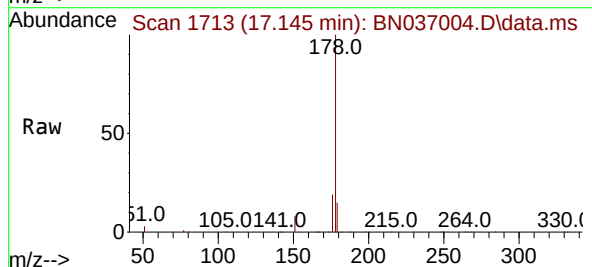
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

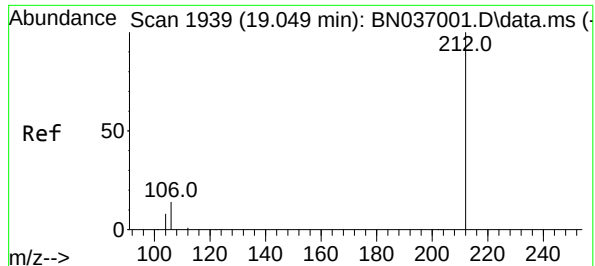
Tgt Ion:178 Resp: 52084
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.1 12.2 18.2



#26
Anthracene
Concen: 3.388 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:178 Resp: 49070
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.388 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

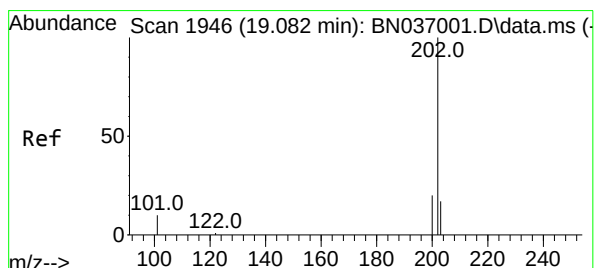
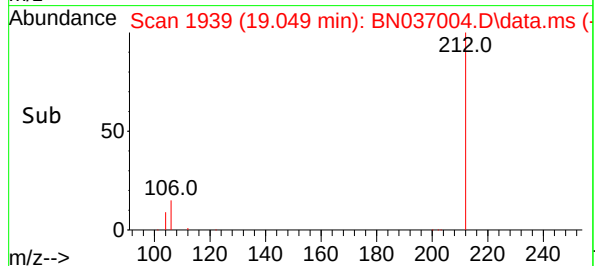
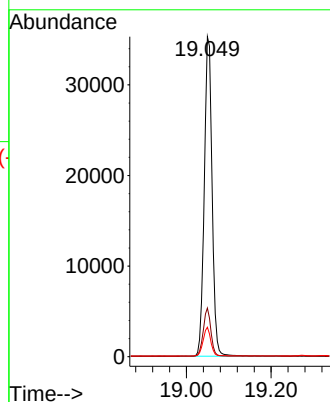
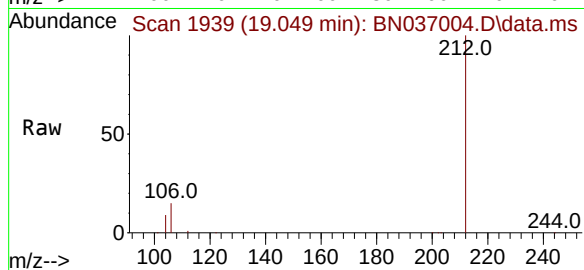
Tgt Ion:212 Resp: 45238

Ion Ratio Lower Upper

212 100

106 14.6 11.3 16.9

104 8.8 6.7 10.1



#28

Fluoranthene

Concen: 3.426 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

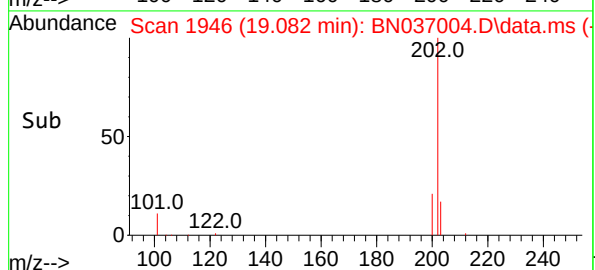
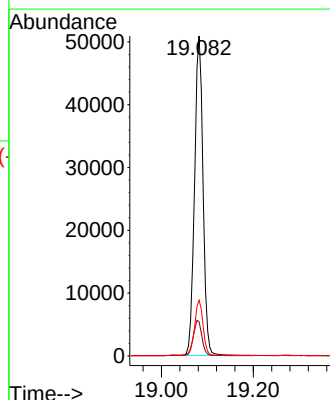
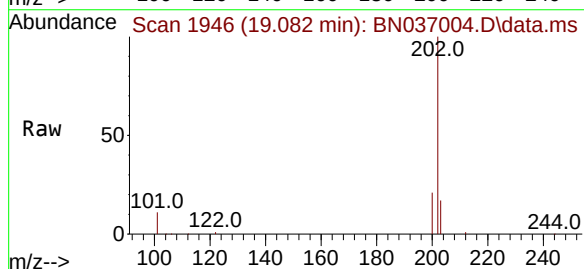
Tgt Ion:202 Resp: 65127

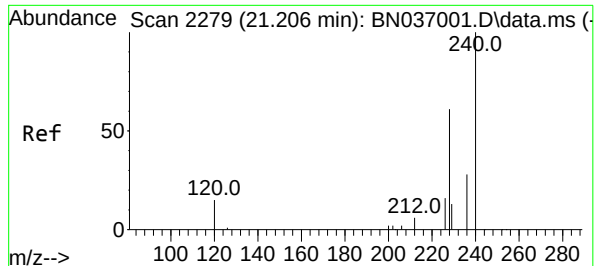
Ion Ratio Lower Upper

202 100

101 11.5 8.9 13.3

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

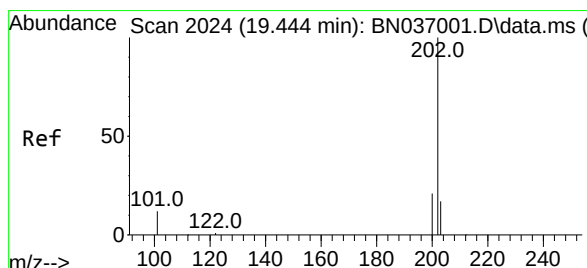
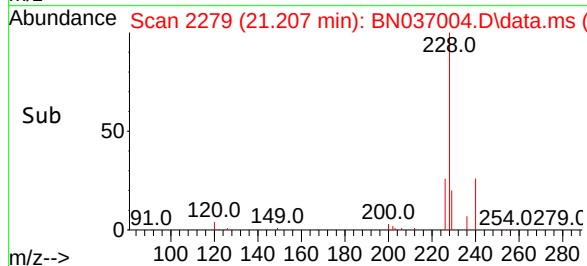
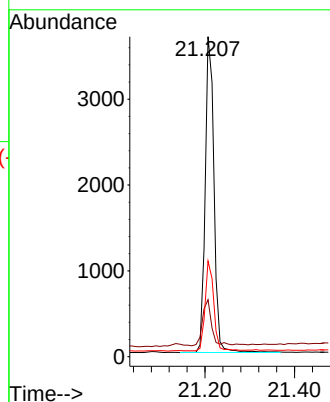
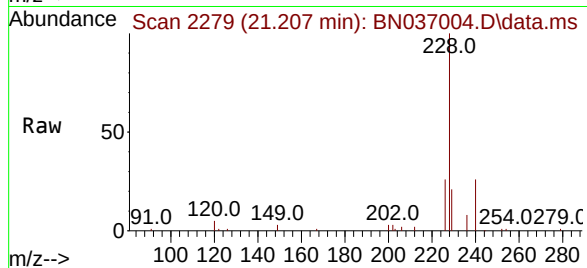
Tgt Ion:240 Resp: 5021

Ion Ratio Lower Upper

240 100

120 17.8 15.1 22.7

236 29.9 24.0 36.0



#30

Pyrene

Concen: 3.069 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

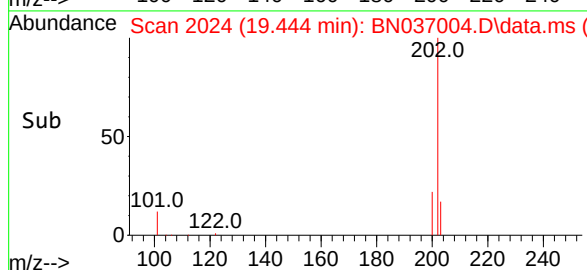
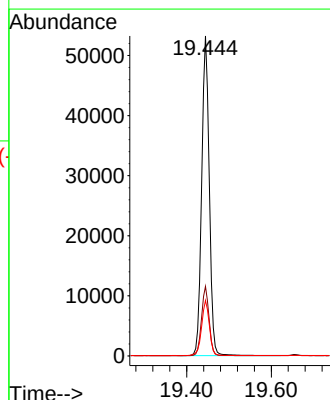
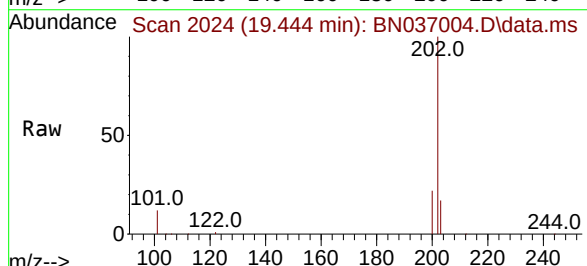
Tgt Ion:202 Resp: 65923

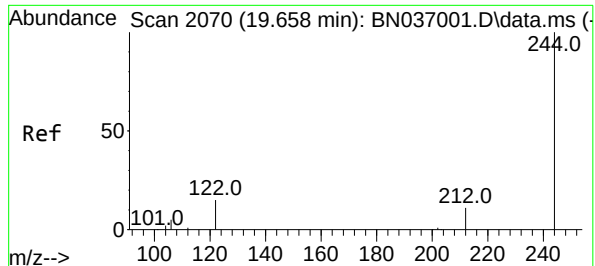
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.8 14.2 21.4

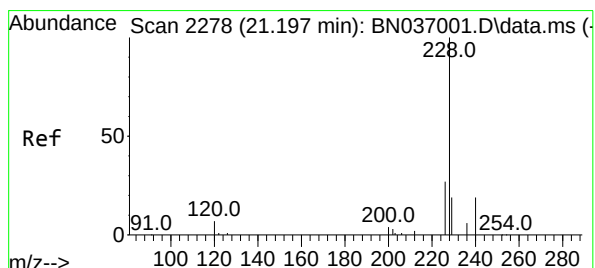
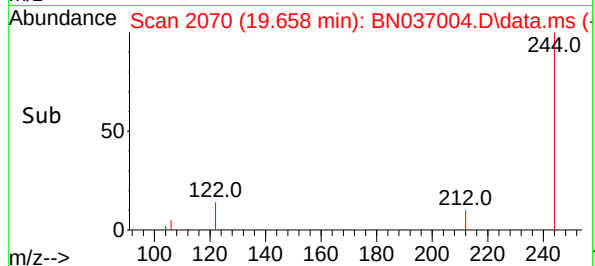
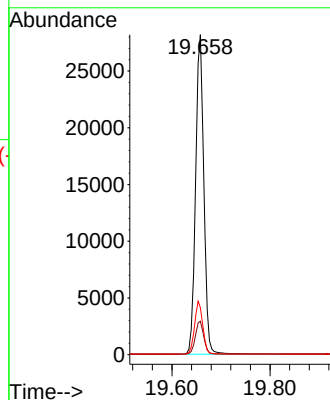
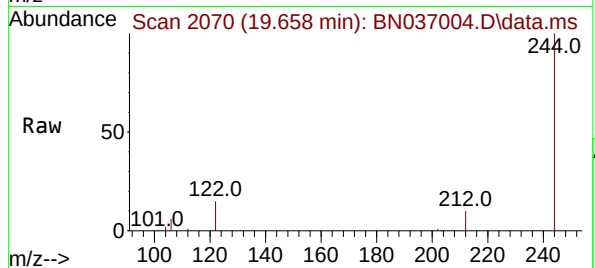




#31
Terphenyl-d14
Concen: 3.051 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

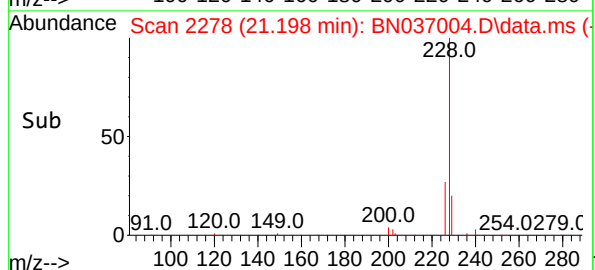
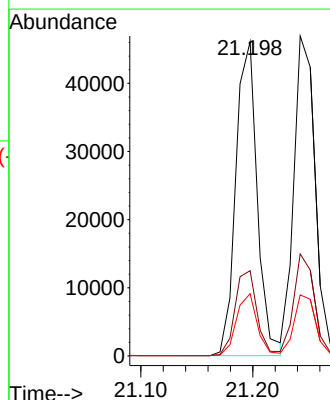
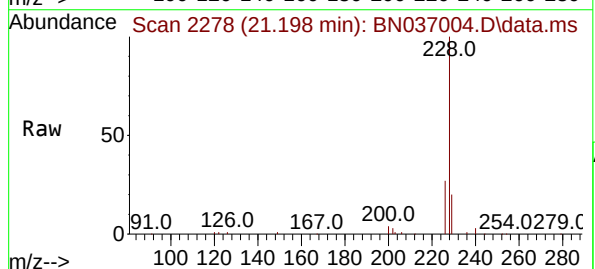
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

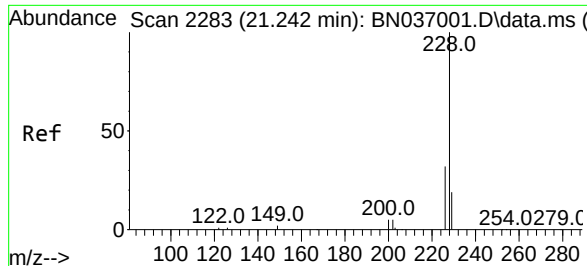
Tgt Ion:244 Resp: 32768
Ion Ratio Lower Upper
244 100
212 10.5 9.7 14.5
122 14.7 13.4 20.0



#32
Benzo(a)anthracene
Concen: 3.232 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:228 Resp: 61105
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.4
229 19.8 16.0 24.0





#33

Chrysene

Concen: 3.134 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

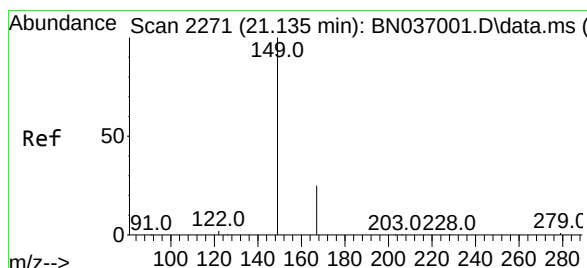
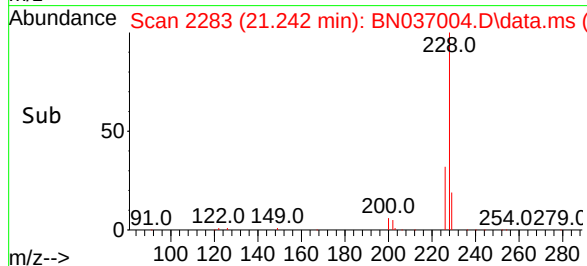
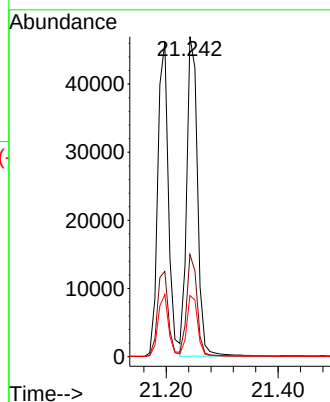
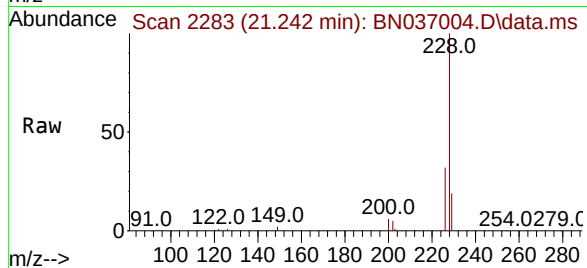
Tgt Ion:228 Resp: 62672

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.113 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

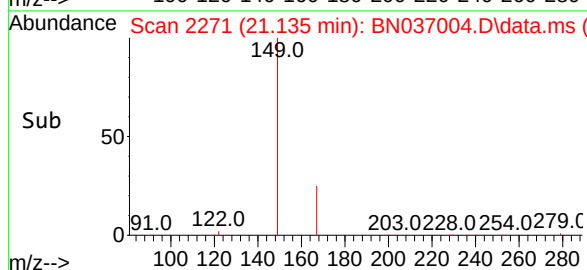
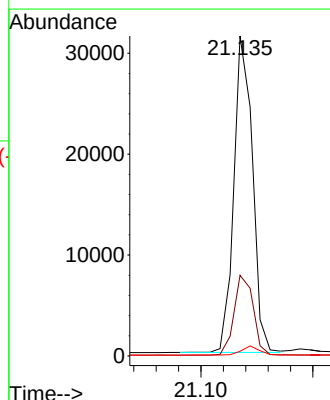
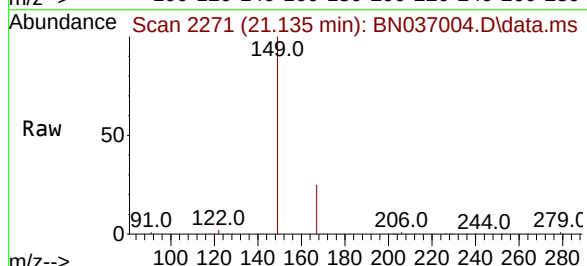
Tgt Ion:149 Resp: 36266

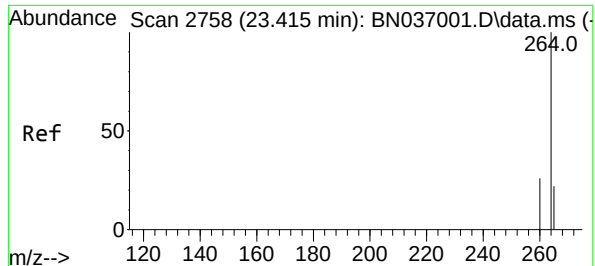
Ion Ratio Lower Upper

149 100

167 26.0 20.6 30.8

279 2.7 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

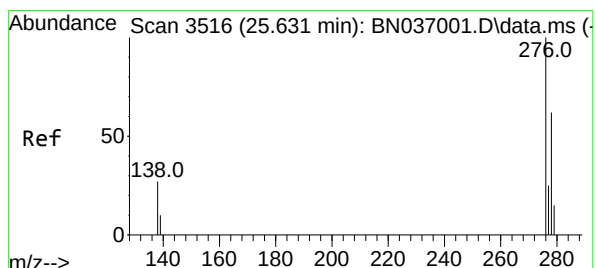
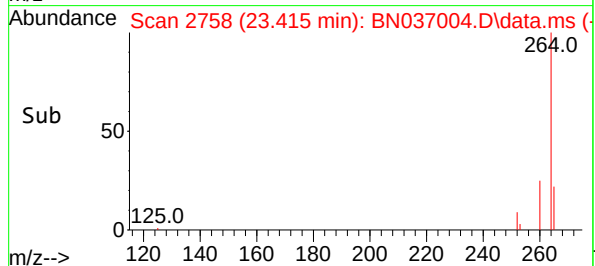
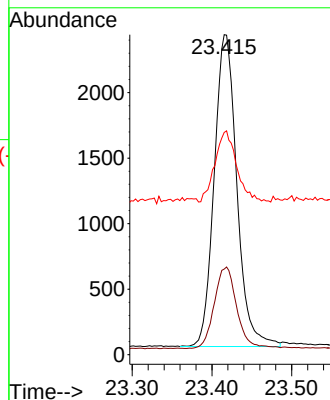
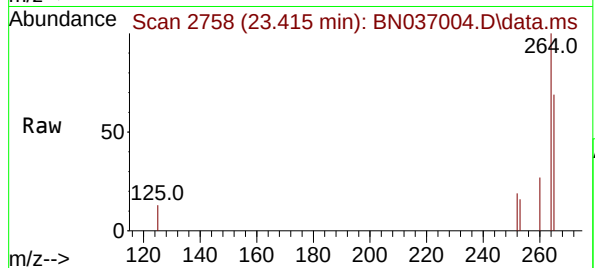
Tgt Ion:264 Resp: 4705

Ion Ratio Lower Upper

264 100

260 26.8 21.9 32.9

265 69.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.393 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

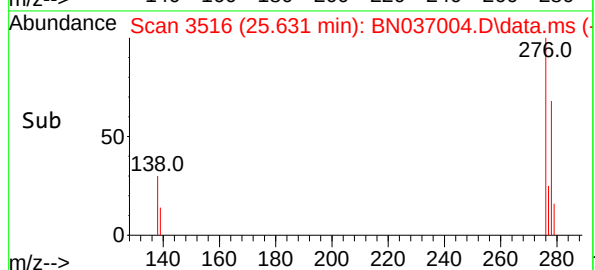
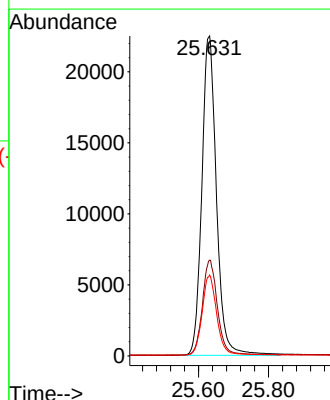
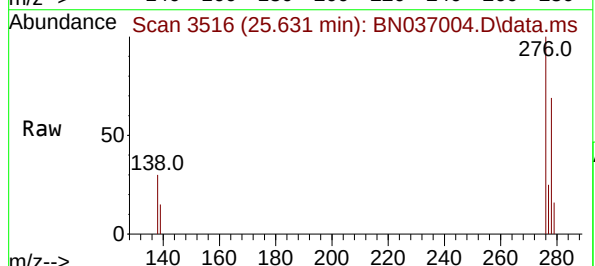
Tgt Ion:276 Resp: 65193

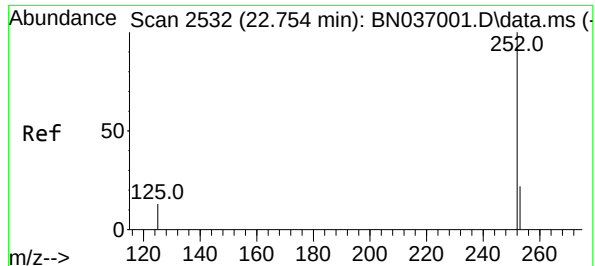
Ion Ratio Lower Upper

276 100

138 30.4 22.7 34.1

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.277 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

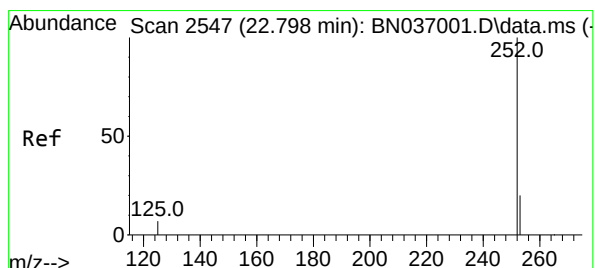
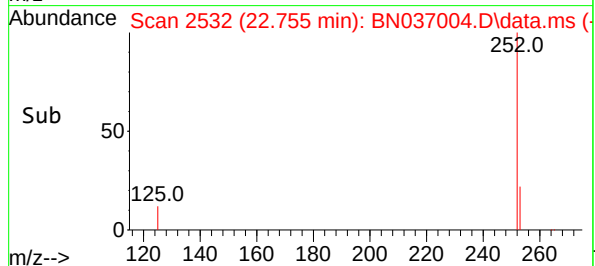
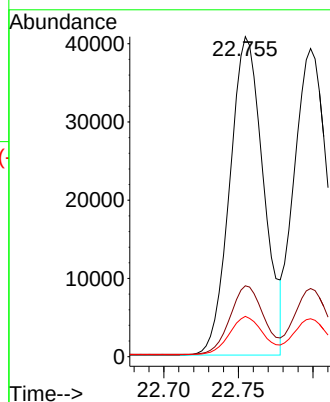
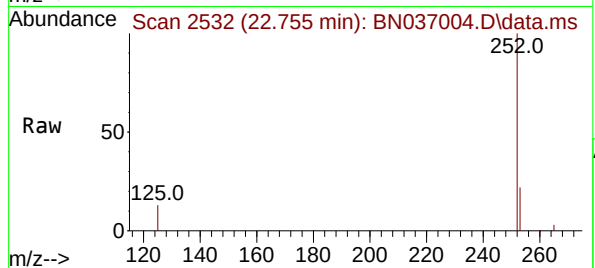
Tgt Ion:252 Resp: 63928

Ion Ratio Lower Upper

252 100

253 22.2 21.8 32.6

125 12.6 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 3.245 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

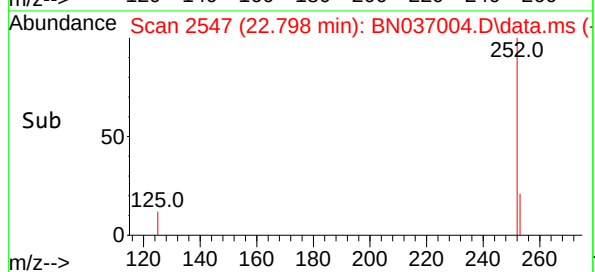
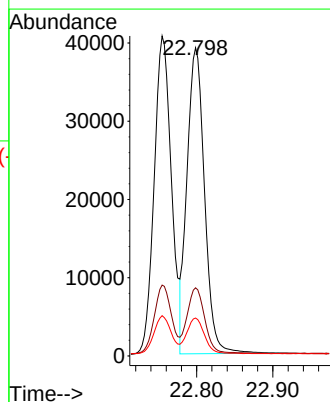
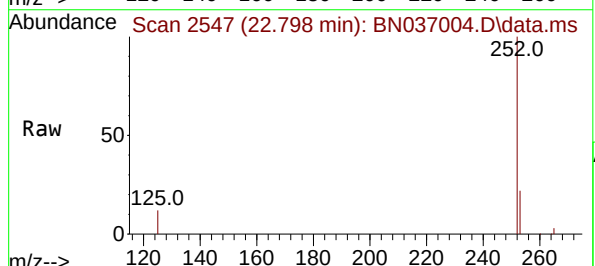
Tgt Ion:252 Resp: 62537

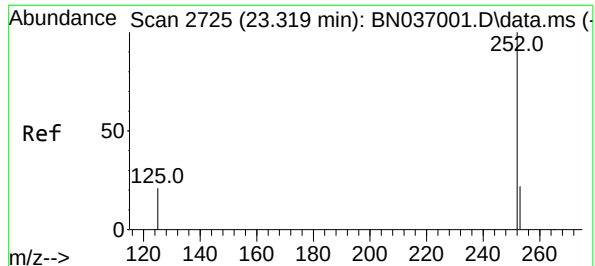
Ion Ratio Lower Upper

252 100

253 22.1 21.4 32.2

125 12.3 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 3.284 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

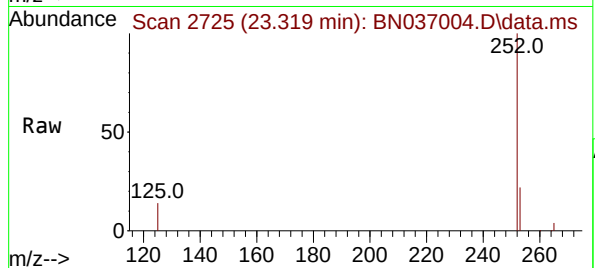
Acq: 13 May 2025 20:41

Instrument :

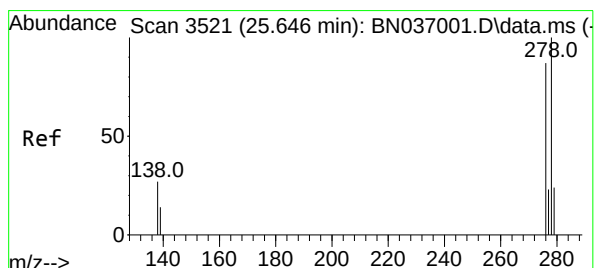
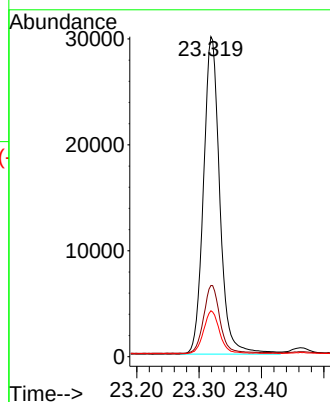
BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:	252	Resp:	54366
Ion Ratio	Lower	Upper	
252	100		
253	22.3	23.8	35.6#
125	14.4	21.8	32.6#



#40

Dibenzo(a,h)anthracene

Concen: 3.460 ng

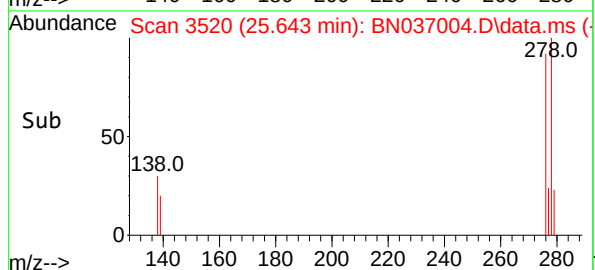
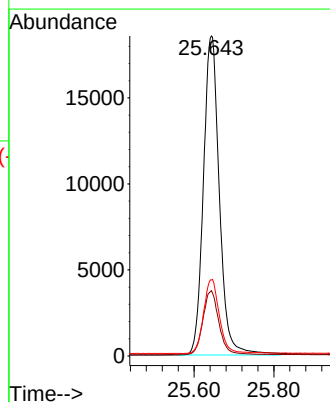
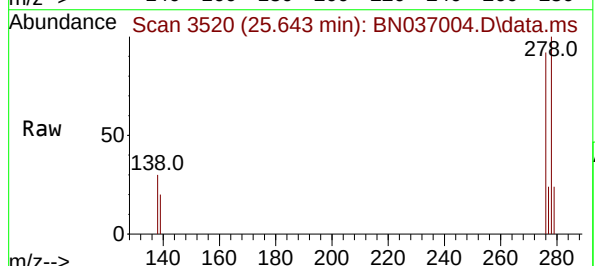
RT: 25.643 min Scan# 3520

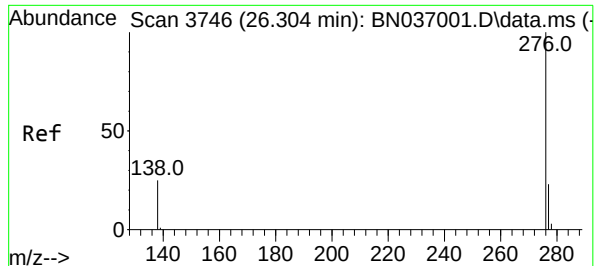
Delta R.T. -0.003 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Tgt Ion:	278	Resp:	51783
Ion Ratio	Lower	Upper	
278	100		
139	20.4	17.4	26.0
279	23.7	24.6	37.0#





#41

Benzo(g,h,i)perylene

Concen: 3.331 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037004.D

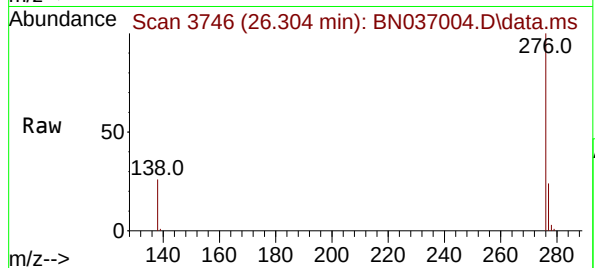
Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



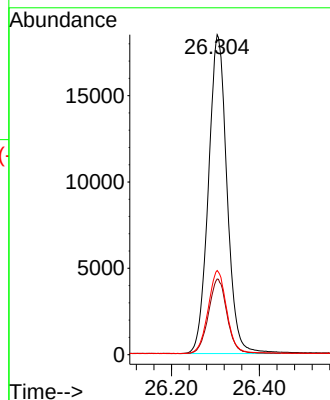
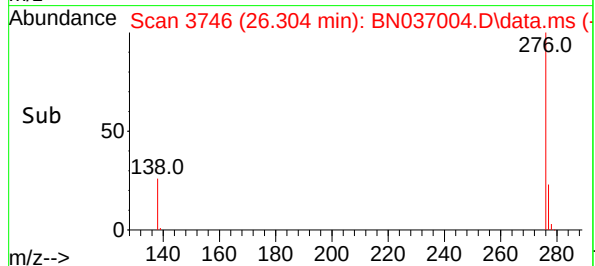
Tgt Ion:276 Resp: 54177

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.4

138 26.3 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037005.D
 Acq On : 13 May 2025 21:17
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: May 14 11:02:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

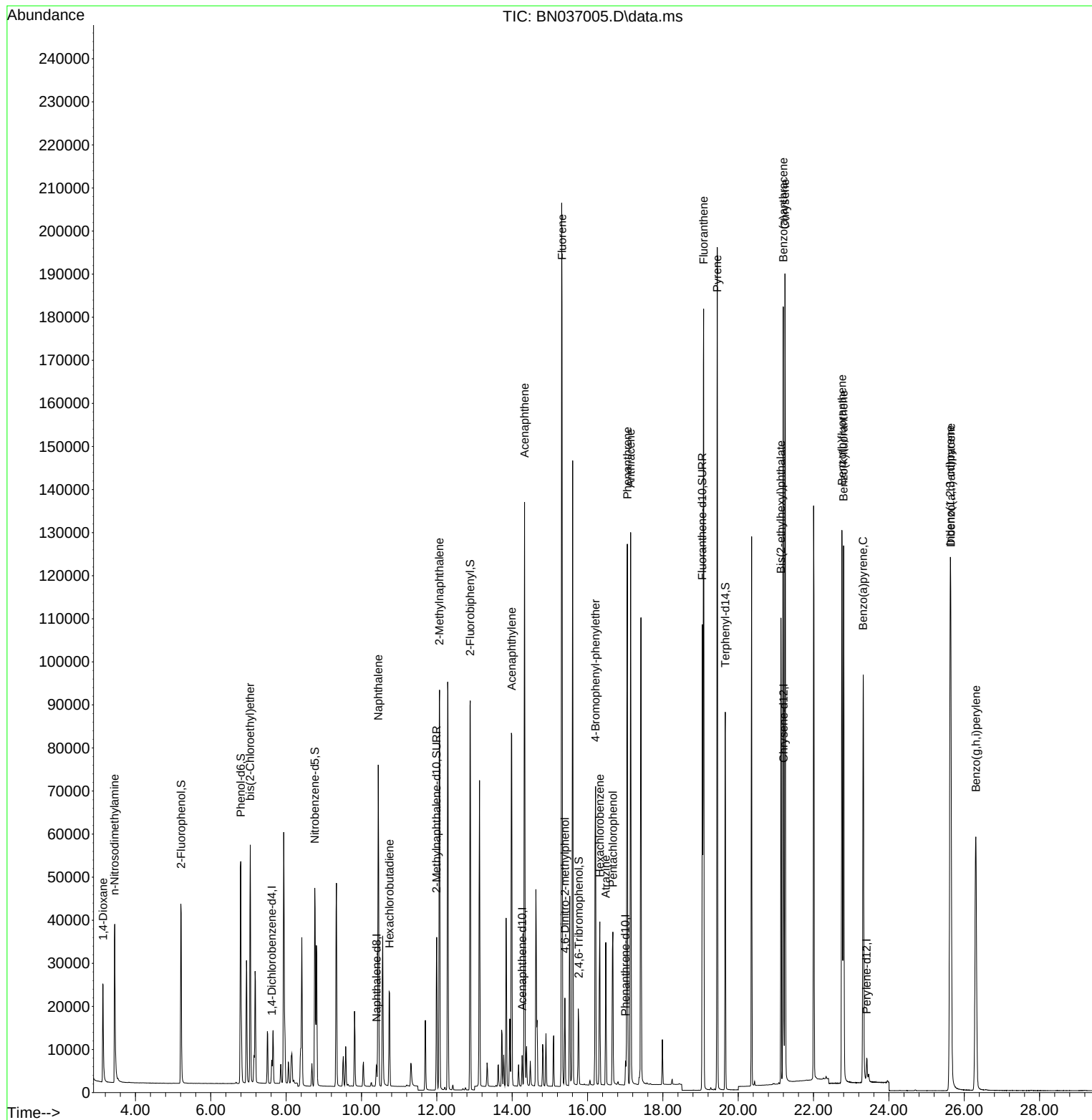
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2402	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6211	0.400	ng	0.00
13) Acenaphthene-d10	14.266	164	3660	0.400	ng	0.00
19) Phenanthrene-d10	17.008	188	7377	0.400	ng	0.00
29) Chrysene-d12	21.206	240	7435	0.400	ng	0.00
35) Perylene-d12	23.412	264	6657	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	29155	4.633	ng	0.00
5) Phenol-d6	6.794	99	38800	4.928	ng	0.00
8) Nitrobenzene-d5	8.760	82	34333	5.077	ng	-0.01
11) 2-Methylnaphthalene-d10	11.995	152	45677	5.225	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	8654	5.383	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	82658	4.932	ng	0.00
27) Fluoranthene-d10	19.049	212	108672	5.372	ng	0.00
31) Terphenyl-d14	19.658	244	78766	4.953	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	13630	4.624	ng	98
3) n-Nitrosodimethylamine	3.443	42	28520	4.504	ng	# 95
6) bis(2-Chloroethyl)ether	7.047	93	34458	4.755	ng	99
9) Naphthalene	10.447	128	90412	4.926	ng	96
10) Hexachlorobutadiene	10.745	225	18076	4.692	ng	# 100
12) 2-Methylnaphthalene	12.072	142	61370	5.199	ng	98
16) Acenaphthylene	13.988	152	94911	5.328	ng	100
17) Acenaphthene	14.330	154	60171	5.169	ng	97
18) Fluorene	15.325	166	80175	5.250	ng	99
20) 4,6-Dinitro-2-methylph...	15.399	198	11401	5.020	ng	# 77
21) 4-Bromophenyl-phenylether	16.214	248	23877	5.124	ng	93
22) Hexachlorobenzene	16.325	284	24597	4.931	ng	100
23) Atrazine	16.487	200	22281	5.483	ng	91
24) Pentachlorophenol	16.673	266	16300	5.883	ng	97
25) Phenanthrene	17.058	178	125493	5.205	ng	100
26) Anthracene	17.145	178	119884	5.464	ng	100
28) Fluoranthene	19.081	202	156131	5.421	ng	99
30) Pyrene	19.444	202	159039	5.001	ng	100
32) Benzo(a)anthracene	21.197	228	149524	5.341	ng	99
33) Chrysene	21.242	228	146457	4.946	ng	98
34) Bis(2-ethylhexyl)phtha...	21.134	149	93938	5.445	ng	99
36) Indeno(1,2,3-cd)pyrene	25.628	276	139772	5.141	ng	97
37) Benzo(b)fluoranthene	22.754	252	146896	5.323	ng	# 89
38) Benzo(k)fluoranthene	22.798	252	143001	5.244	ng	# 90
39) Benzo(a)pyrene	23.318	252	123679	5.280	ng	# 80
40) Dibenzo(a,h)anthracene	25.643	278	111001	5.241	ng	# 91
41) Benzo(g,h,i)perylene	26.309	276	114459	4.975	ng	98

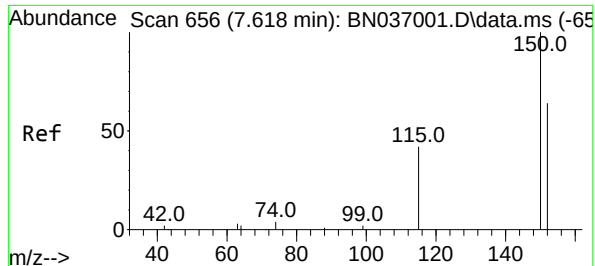
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037005.D
Acq On : 13 May 2025 21:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: May 14 11:02:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

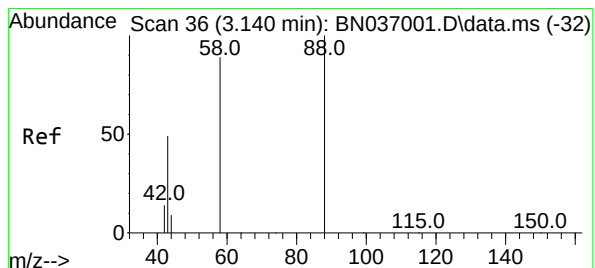
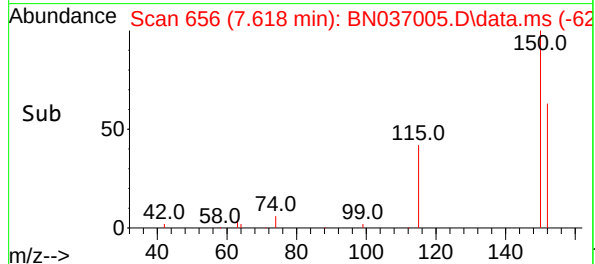
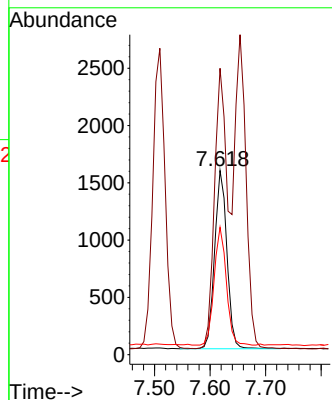
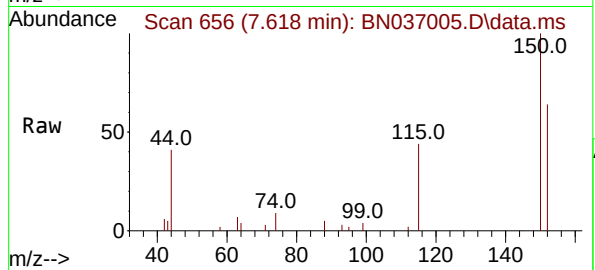




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

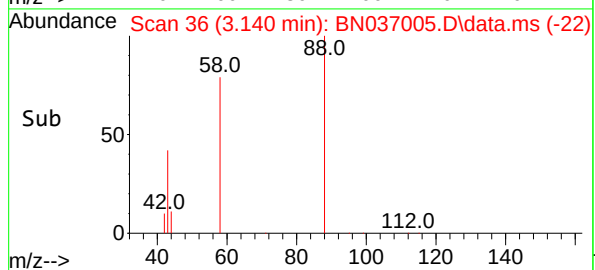
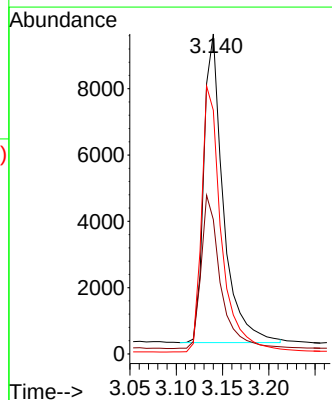
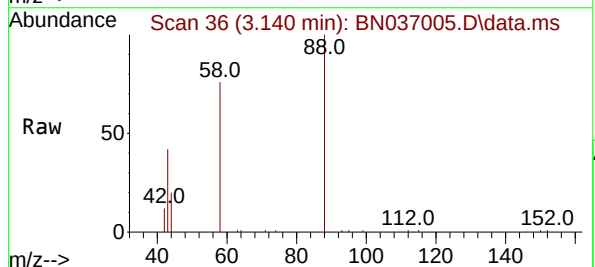
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

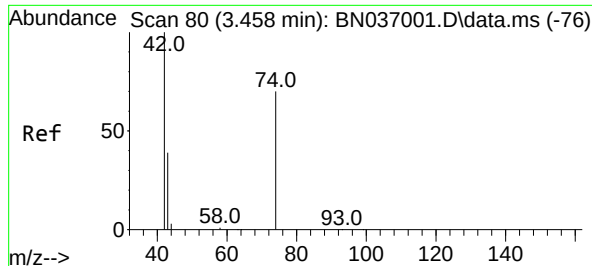
Tgt Ion:152 Resp: 2402
Ion Ratio Lower Upper
152 100
150 155.6 123.9 185.9
115 69.1 55.8 83.8



#2
1,4-Dioxane
Concen: 4.624 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 88 Resp: 13630
Ion Ratio Lower Upper
88 100
43 49.2 37.4 56.0
58 87.5 68.8 103.2

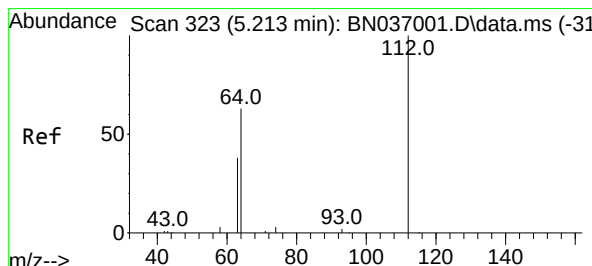
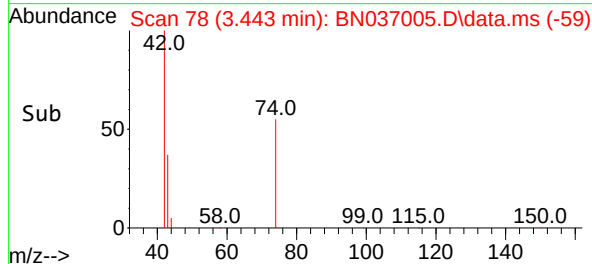
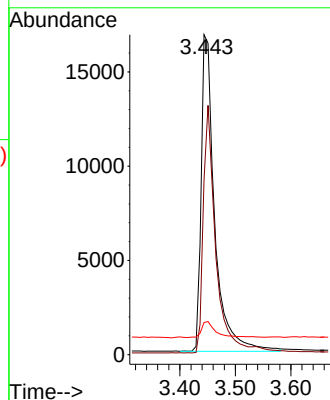
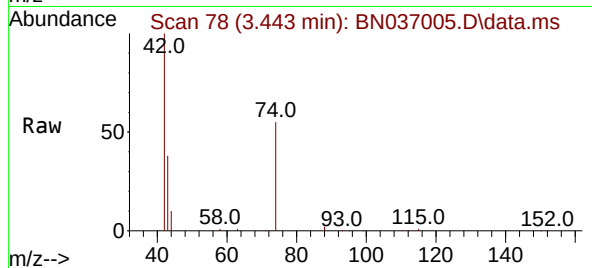




#3
n-Nitrosodimethylamine
Concen: 4.504 ng
RT: 3.443 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

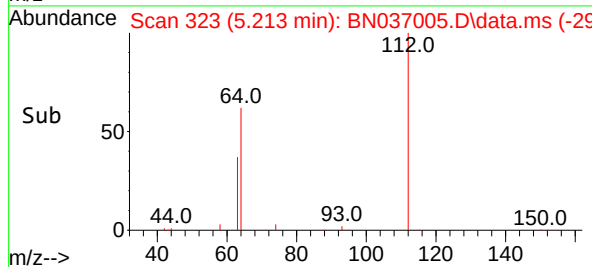
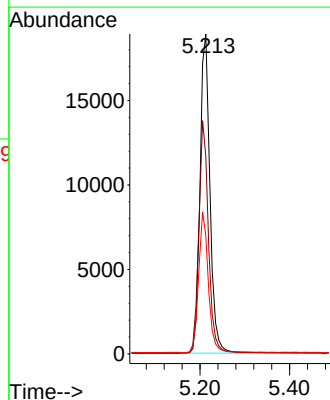
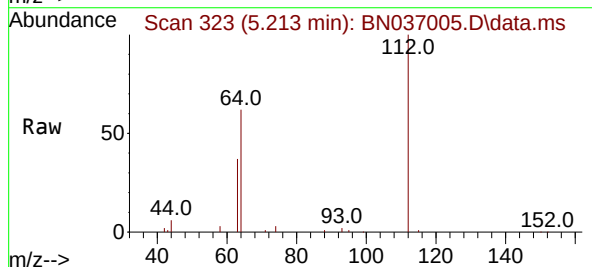
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

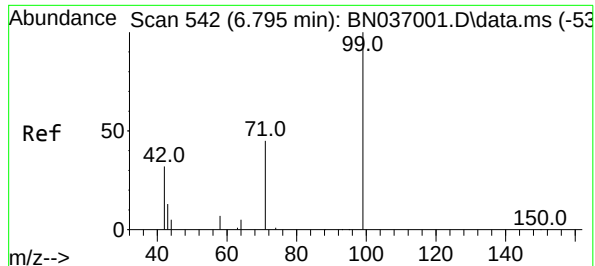
Tgt Ion: 42 Resp: 28520
Ion Ratio Lower Upper
42 100
74 73.2 59.8 89.6
44 5.5 11.9 17.9#



#4
2-Fluorophenol
Concen: 4.633 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 112 Resp: 29155
Ion Ratio Lower Upper
112 100
64 70.8 55.7 83.5
63 42.9 34.6 51.8

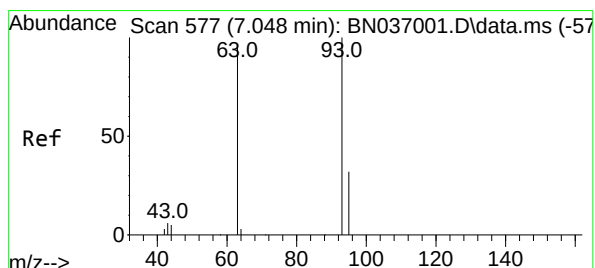
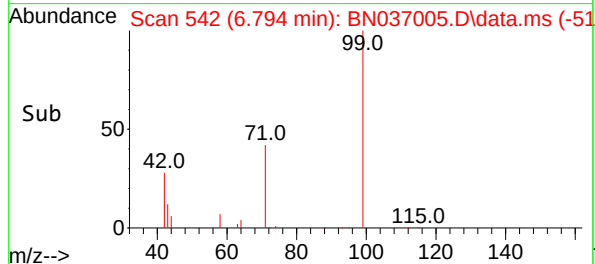
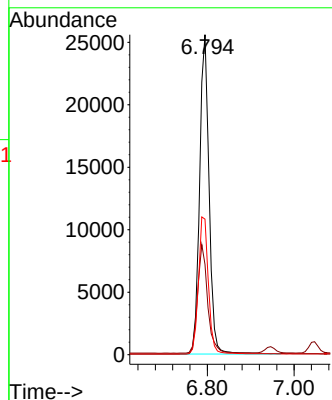
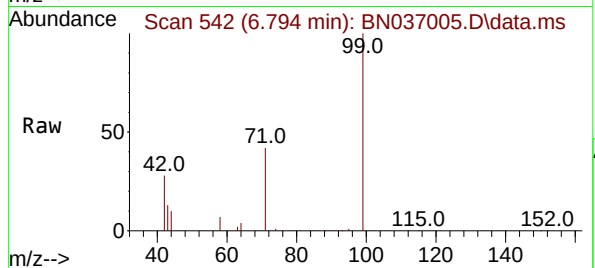




#5
Phenol-d6
Concen: 4.928 ng
RT: 6.794 min Scan# 542
Delta R.T. -0.001 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

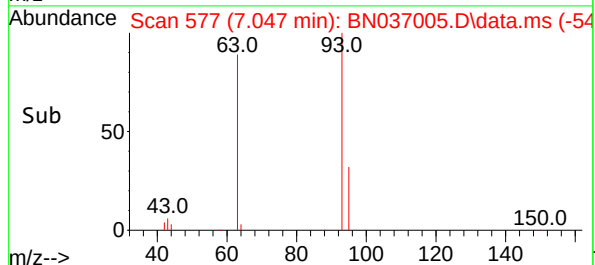
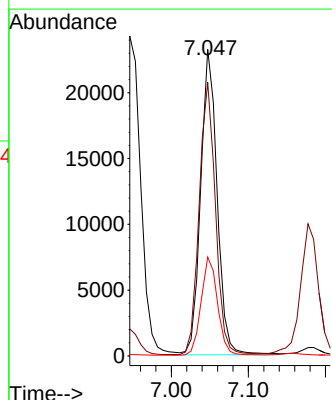
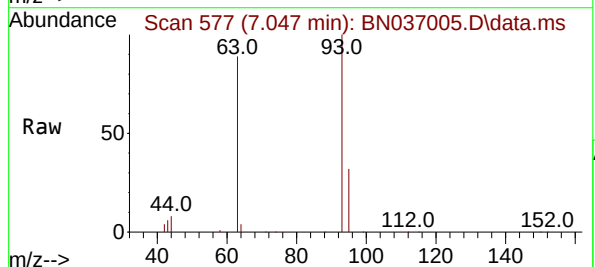
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

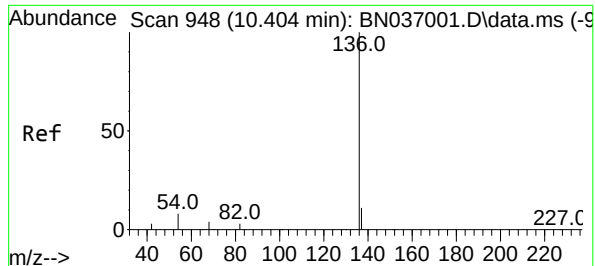
Tgt Ion: 99 Resp: 38800
Ion Ratio Lower Upper
99 100
42 35.9 29.3 43.9
71 45.2 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 4.755 ng
RT: 7.047 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 93 Resp: 34458
Ion Ratio Lower Upper
93 100
63 88.0 70.1 105.1
95 32.1 26.2 39.2

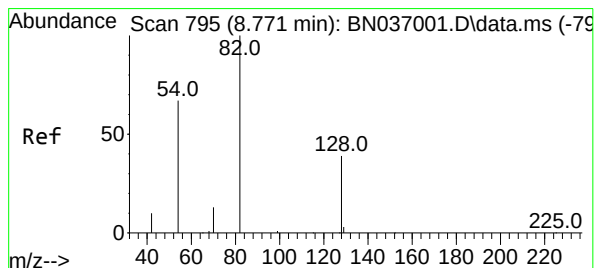
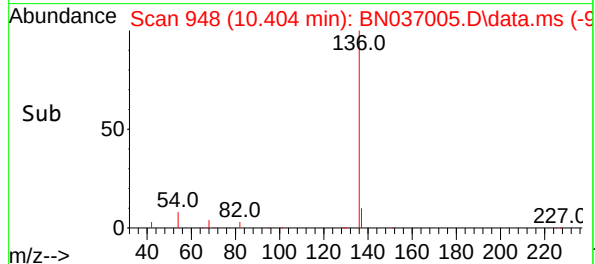
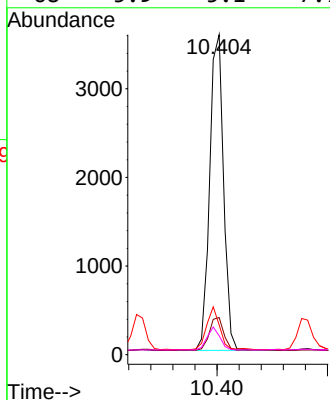
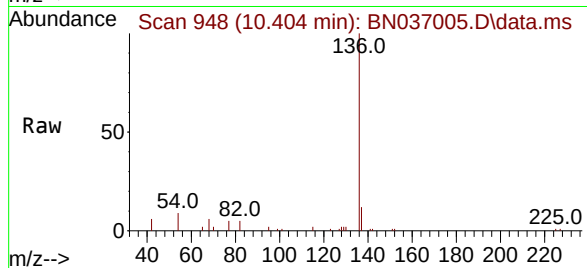




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

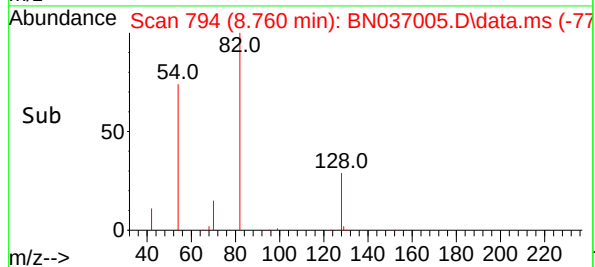
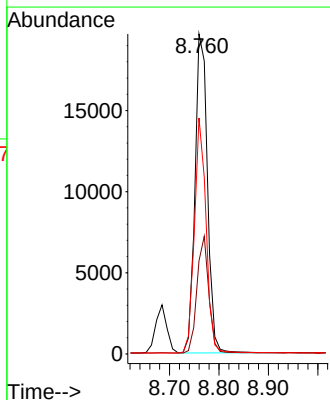
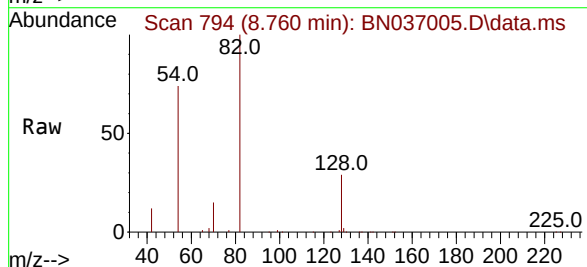
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

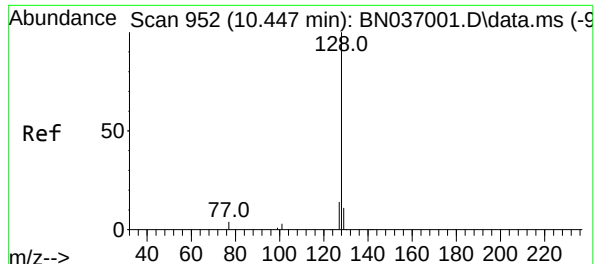
Tgt Ion:	136	Resp:	6211
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.4	15.6
54	9.3	8.5	12.7
68	5.9	5.1	7.7



#8
Nitrobenzene-d5
Concen: 5.077 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:	82	Resp:	34333
Ion	Ratio	Lower	Upper
82	100		
128	29.1	34.0	51.0#
54	73.7	55.0	82.4

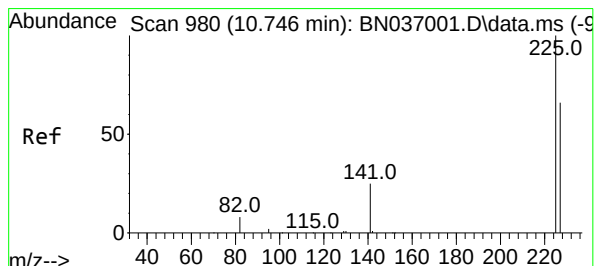
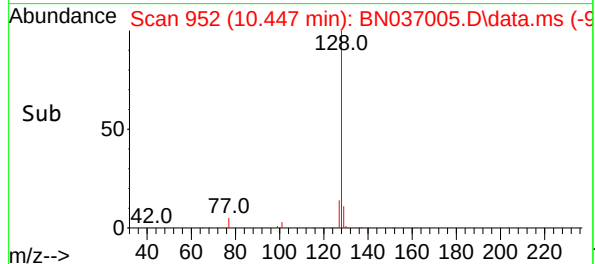
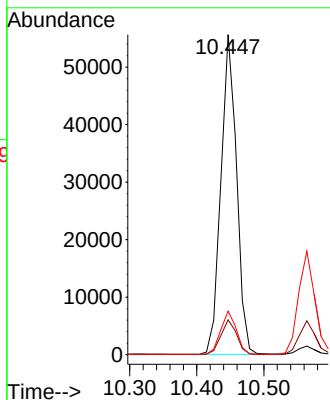
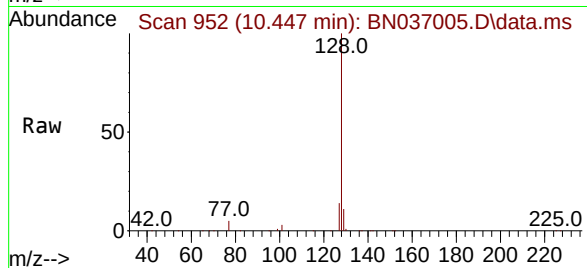




#9
Naphthalene
Concen: 4.926 ng
RT: 10.447 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

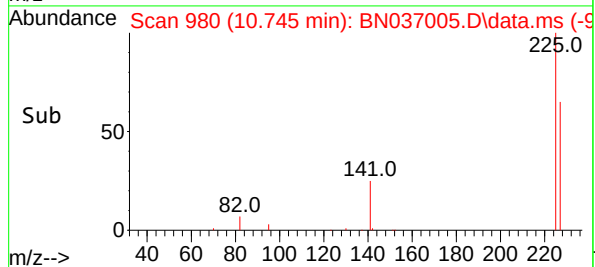
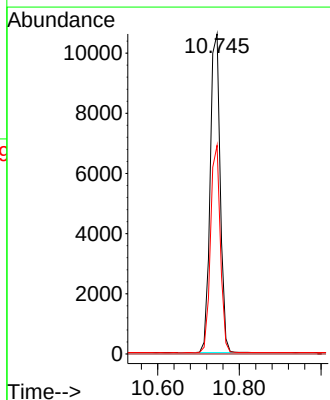
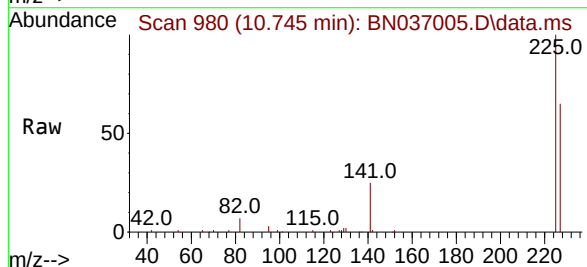
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

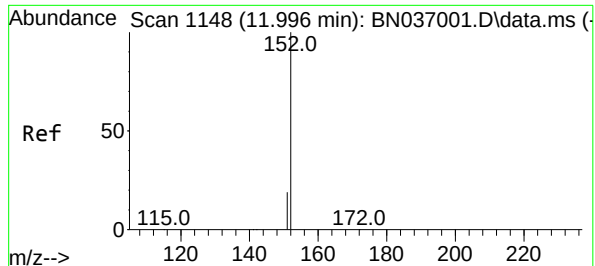
Tgt Ion	128	129	127
Resp:	90412	10.9	13.6
Lower		9.7	12.4
Upper		14.5	18.6



#10
Hexachlorobutadiene
Concen: 4.692 ng
RT: 10.745 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	225	223	227
Resp:	18076	0.0	63.6
Lower		0.0	50.9
Upper		0.0	76.3

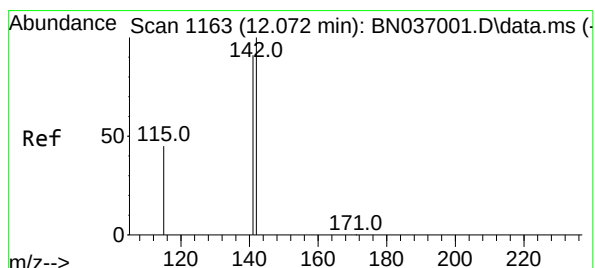
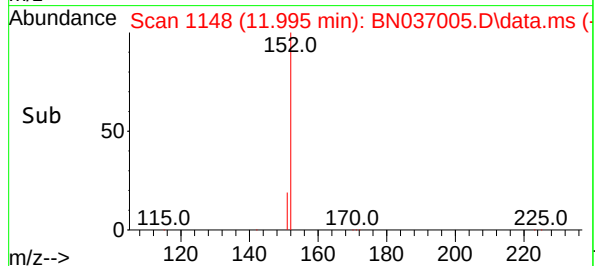
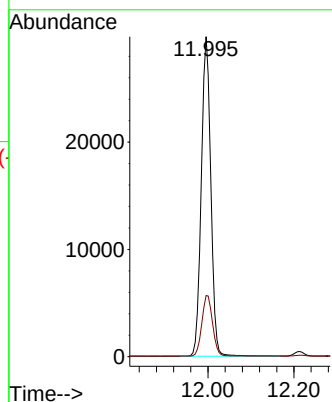
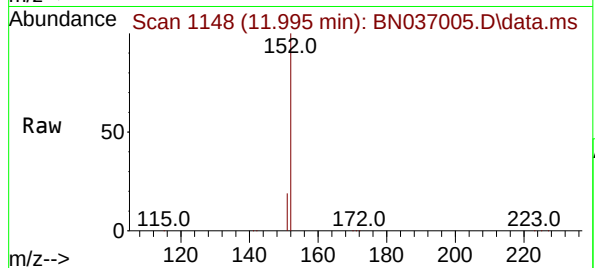




#11
2-Methylnaphthalene-d10
Concen: 5.225 ng
RT: 11.995 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

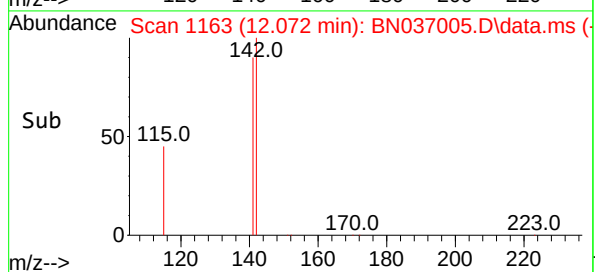
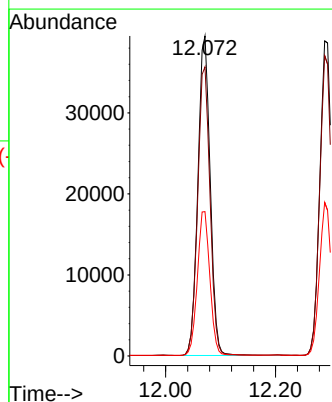
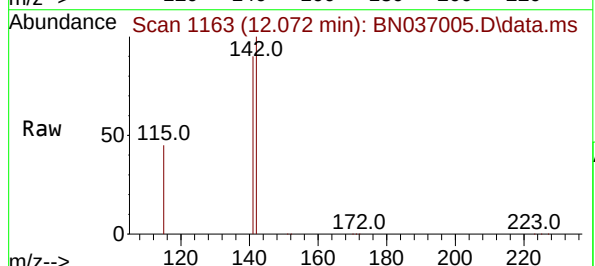
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

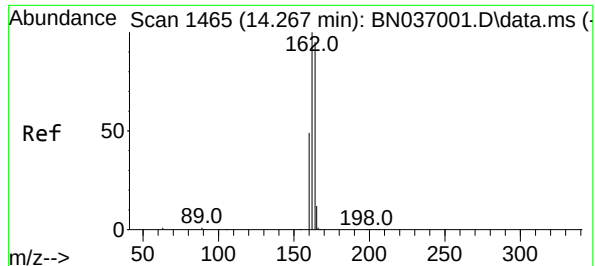
Tgt Ion:152 Resp: 45677
Ion Ratio Lower Upper
152 100
151 21.3 17.5 26.3



#12
2-Methylnaphthalene
Concen: 5.199 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:142 Resp: 61370
Ion Ratio Lower Upper
142 100
141 90.3 73.3 109.9
115 45.1 38.4 57.6

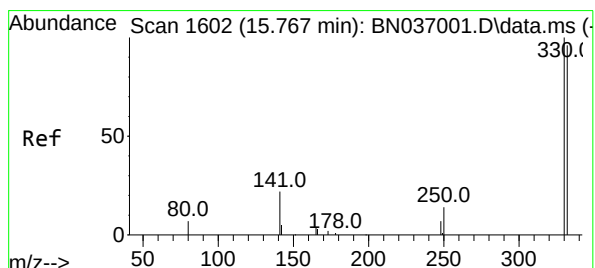
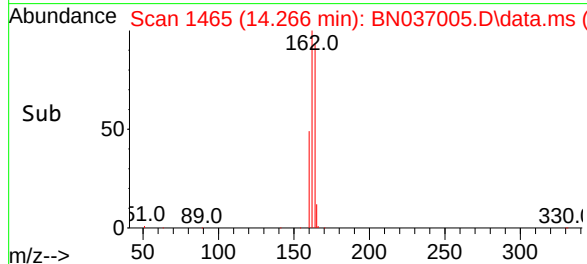
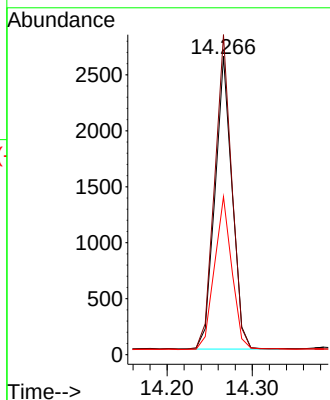
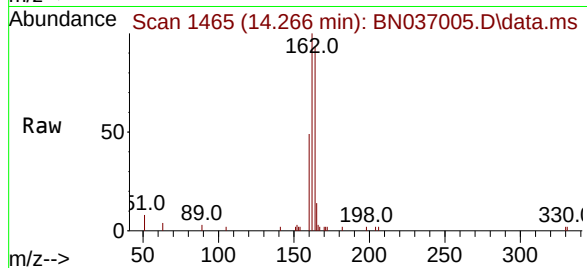




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

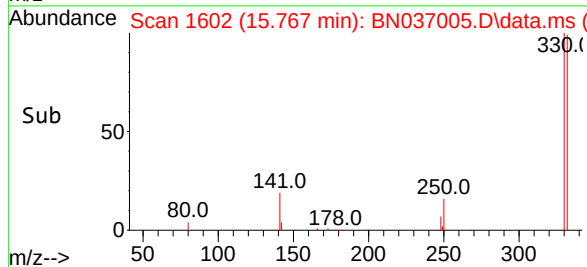
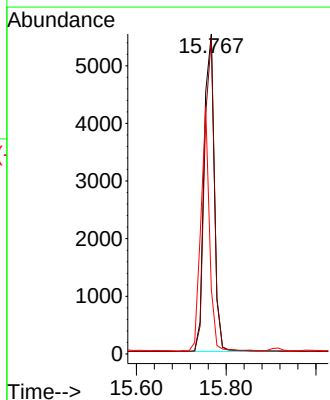
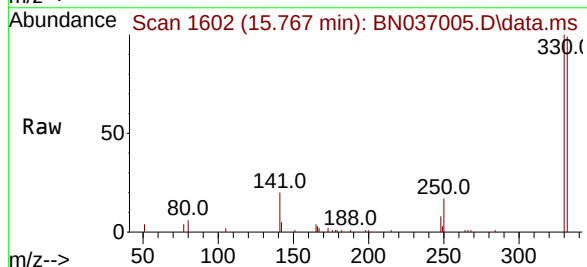
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

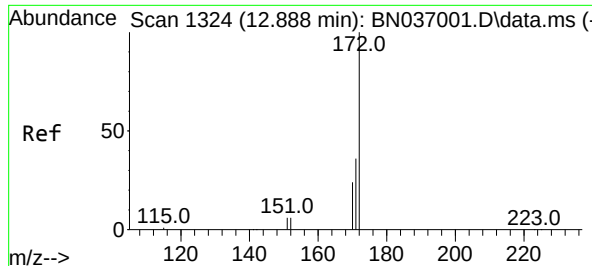
Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.4
160	52.9	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 5.383 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.7	73.8	110.8
141	65.8	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 4.932 ng

RT: 12.888 min Scan# 1324

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

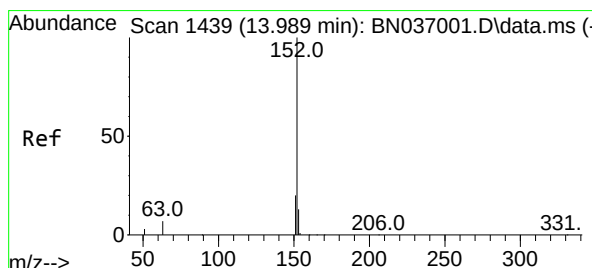
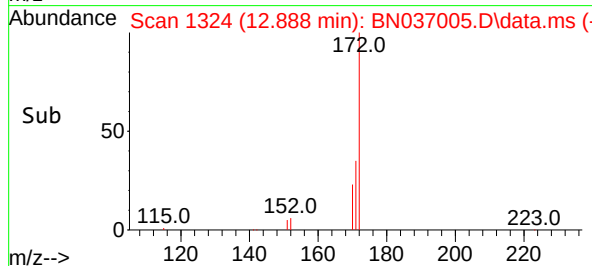
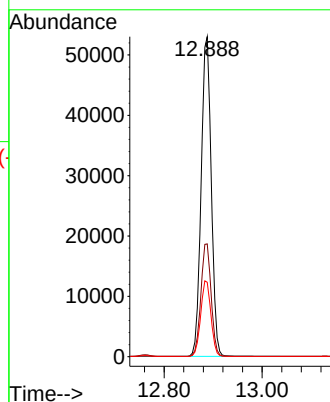
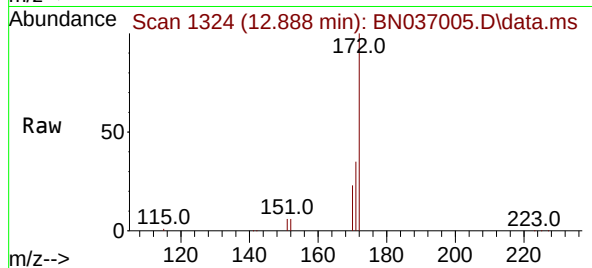
Tgt Ion:172 Resp: 82658

Ion Ratio Lower Upper

172 100

171 35.3 29.2 43.8

170 23.3 20.5 30.7



#16

Acenaphthylene

Concen: 5.328 ng

RT: 13.988 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

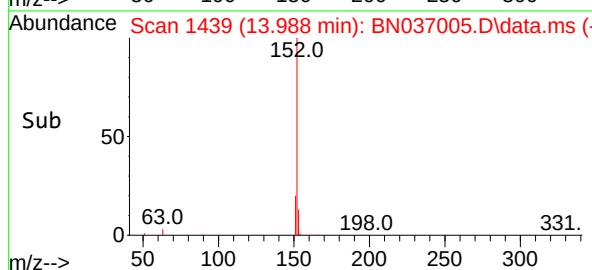
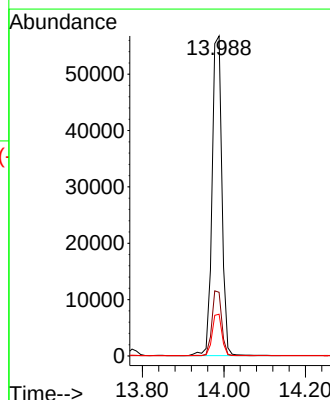
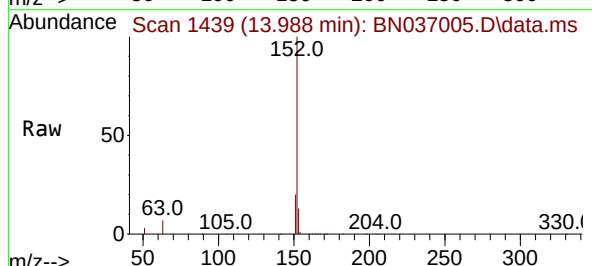
Tgt Ion:152 Resp: 94911

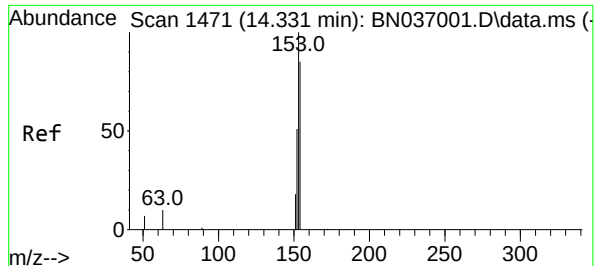
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 5.169 ng

RT: 14.330 min Scan# 1471

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

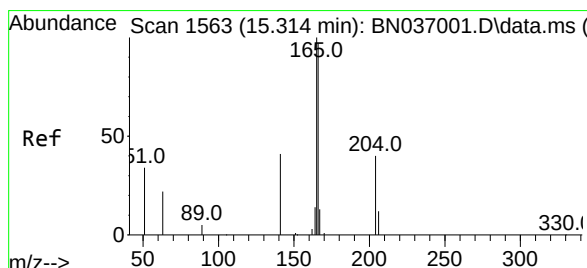
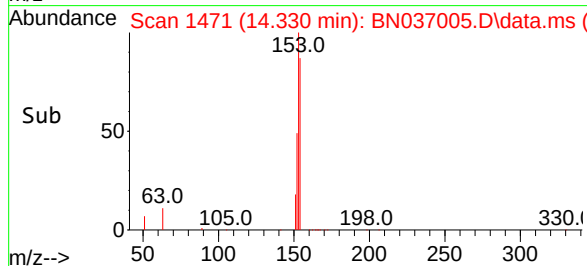
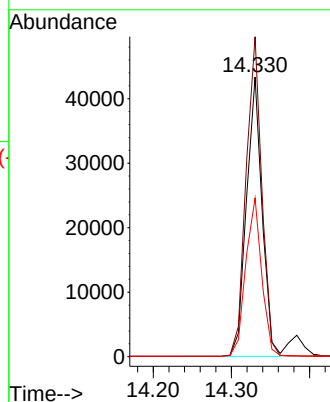
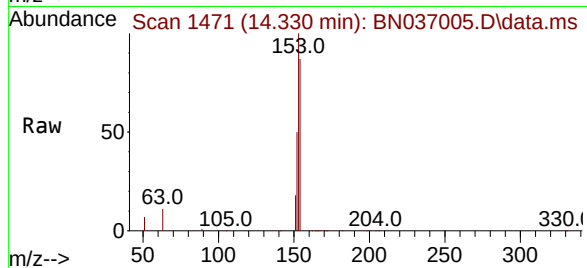
Tgt Ion:154 Resp: 60171

Ion Ratio Lower Upper

154 100

153 115.6 94.2 141.4

152 58.3 49.4 74.0



#18

Fluorene

Concen: 5.250 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.010 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

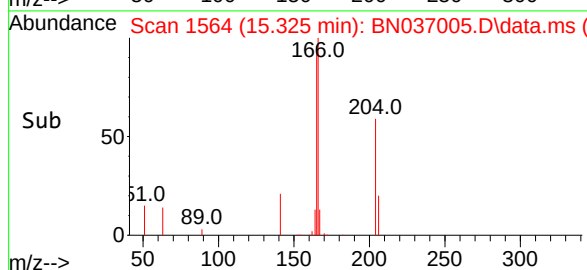
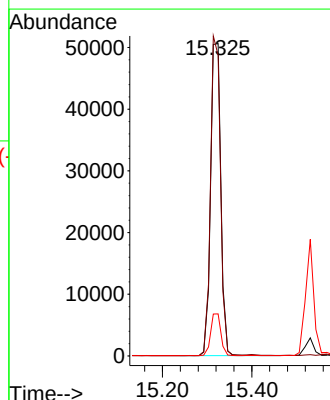
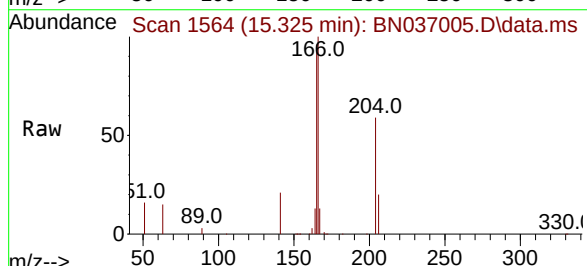
Tgt Ion:166 Resp: 80175

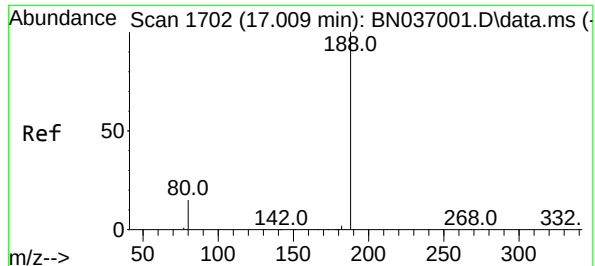
Ion Ratio Lower Upper

166 100

165 99.3 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.008 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

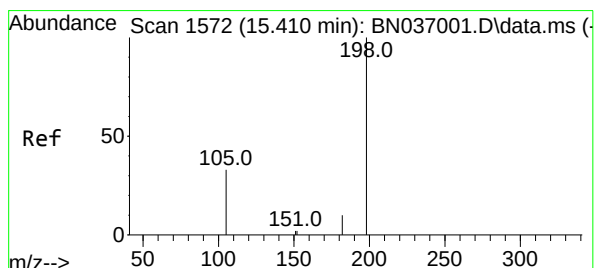
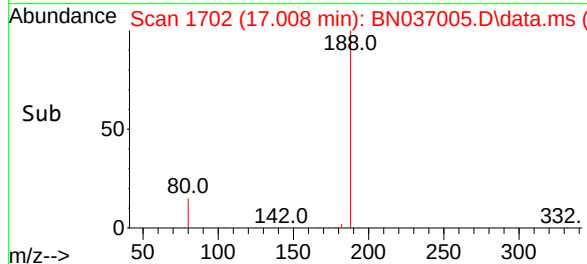
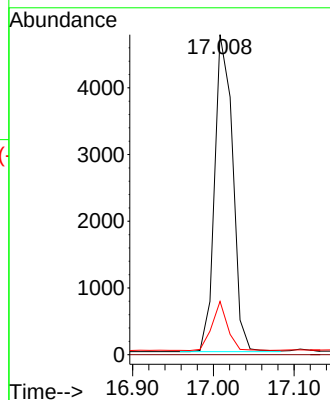
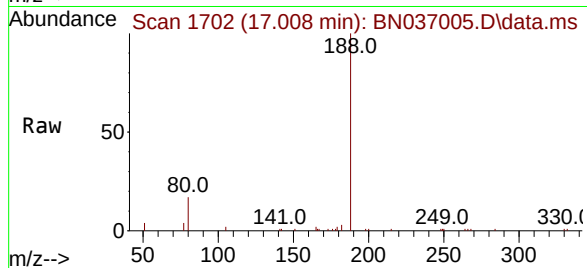
Tgt Ion:188 Resp: 7377

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 5.020 ng

RT: 15.399 min Scan# 1571

Delta R.T. -0.011 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

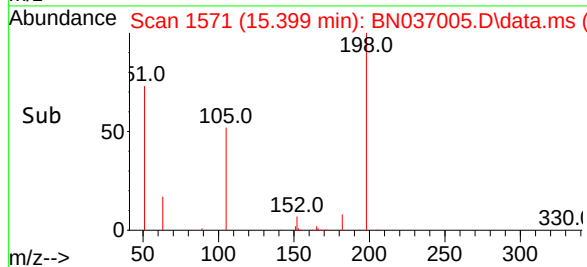
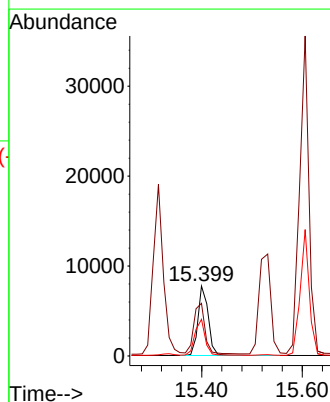
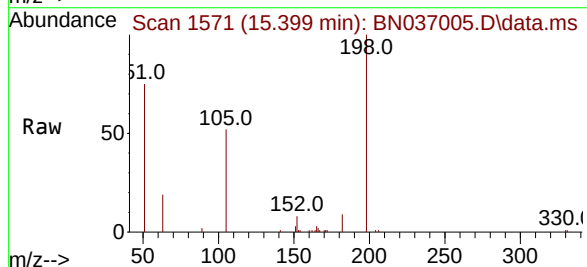
Tgt Ion:198 Resp: 11401

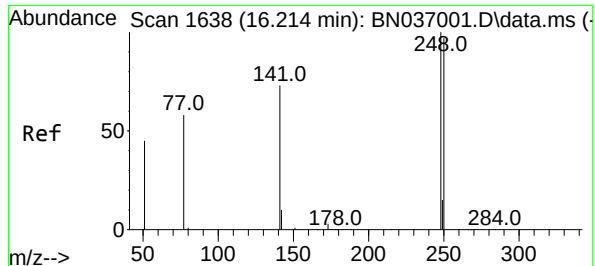
Ion Ratio Lower Upper

198 100

51 75.2 87.8 131.6#

105 52.3 44.2 66.4

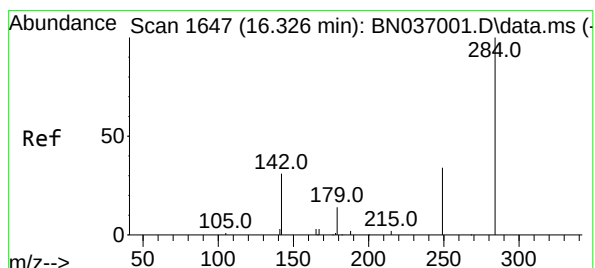
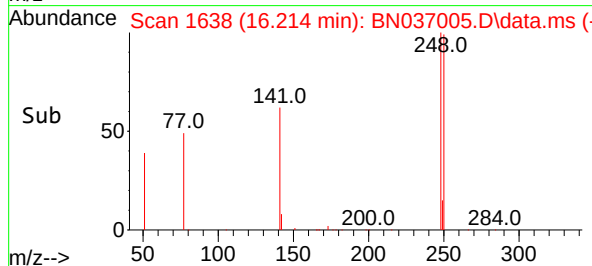
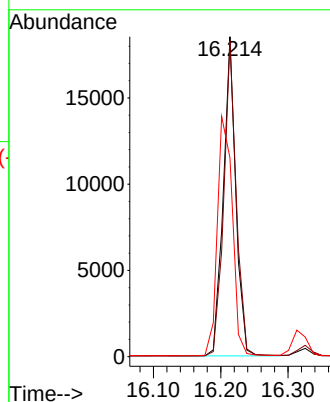
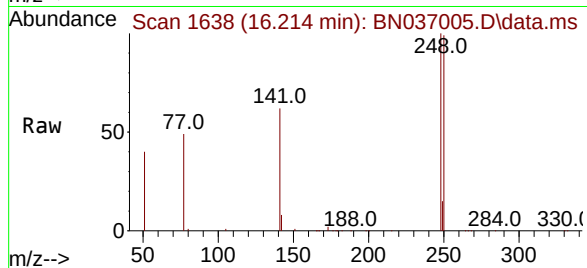




#21
4-Bromophenyl-phenylether
Concen: 5.124 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

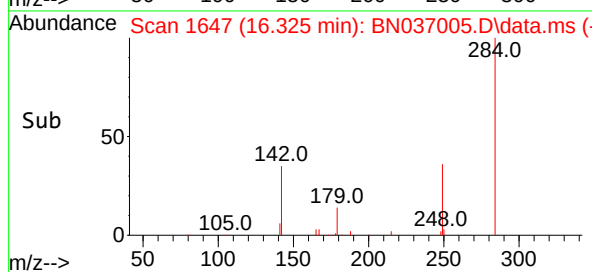
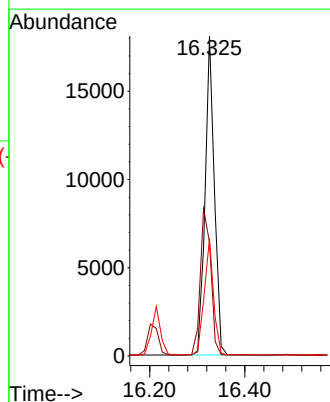
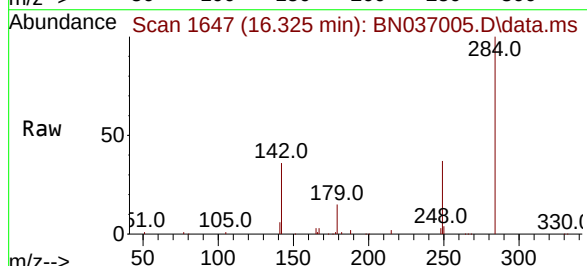
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

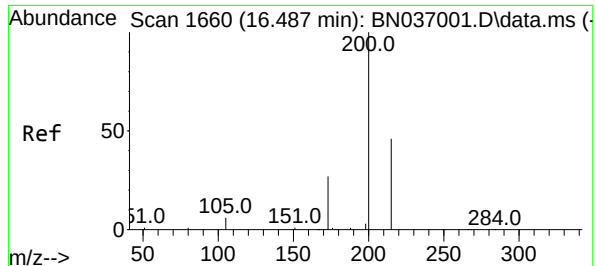
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.1	117.1
141	62.1	59.7	89.5



#22
Hexachlorobenzene
Concen: 4.931 ng
RT: 16.325 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	Ratio	Lower	Upper
284	100		
142	51.5	41.2	61.8
249	36.6	28.7	43.1





#23

Atrazine

Concen: 5.483 ng

RT: 16.487 min Scan# 1660

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

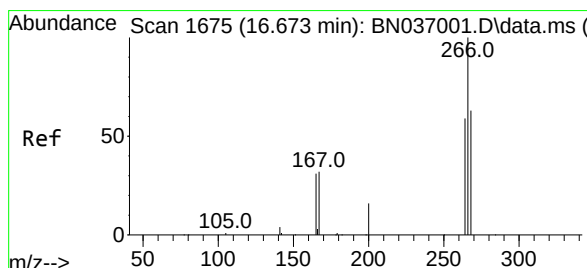
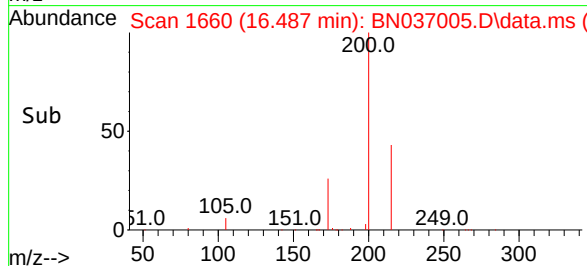
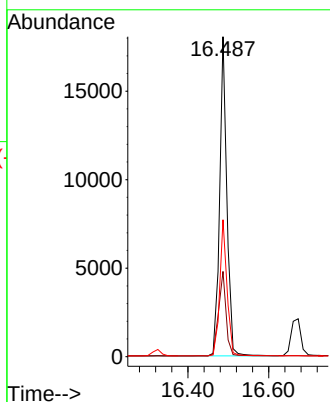
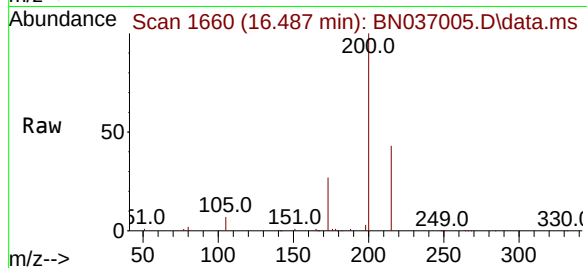
Tgt Ion:200 Resp: 22281

Ion Ratio Lower Upper

200 100

173 26.6 25.2 37.8

215 42.8 39.3 58.9



#24

Pentachlorophenol

Concen: 5.883 ng

RT: 16.673 min Scan# 1675

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

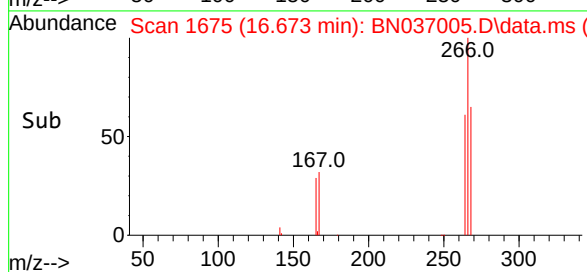
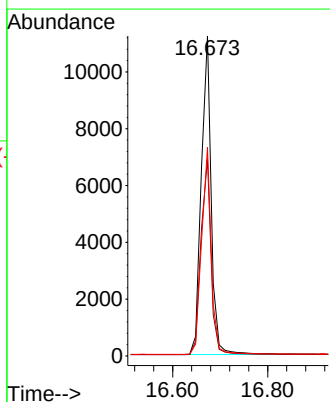
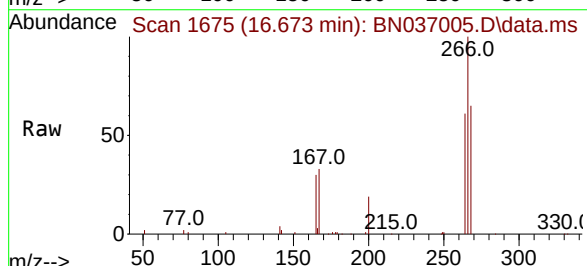
Tgt Ion:266 Resp: 16300

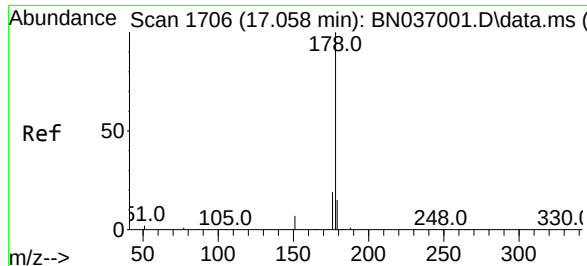
Ion Ratio Lower Upper

266 100

264 62.8 47.9 71.9

268 64.0 50.0 75.0

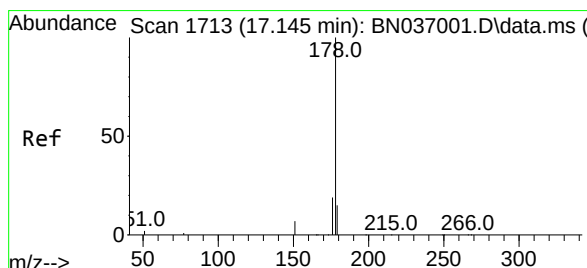
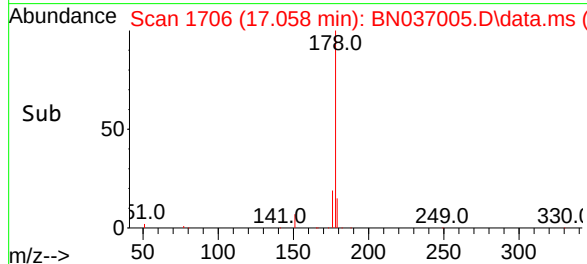
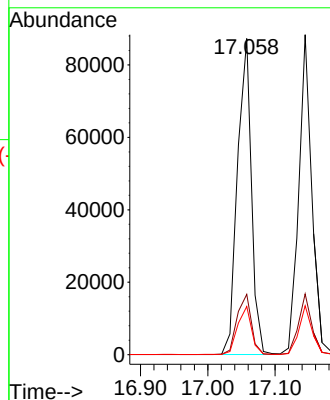
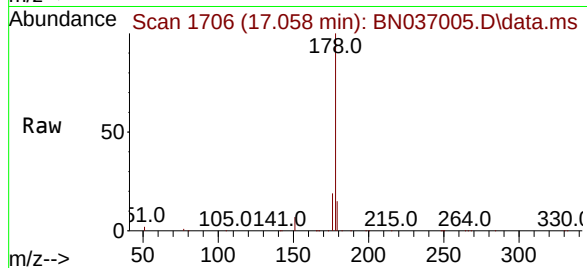




#25
Phenanthrene
Concen: 5.205 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

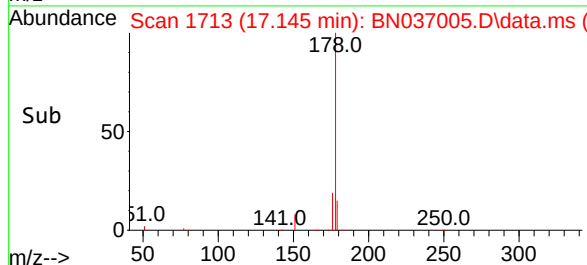
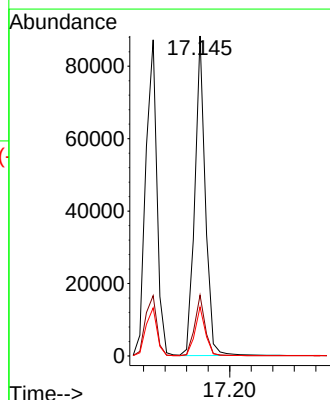
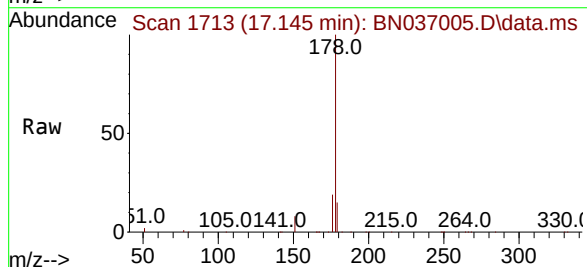
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

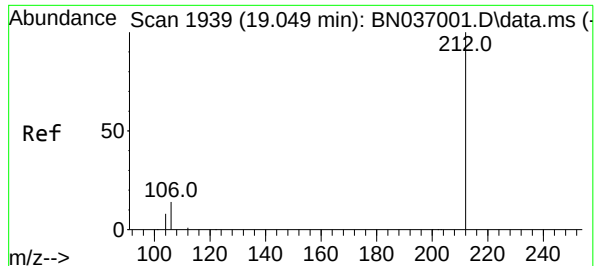
Tgt Ion:178 Resp: 125493
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.2 12.2 18.2



#26
Anthracene
Concen: 5.464 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:178 Resp: 119884
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 5.372 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

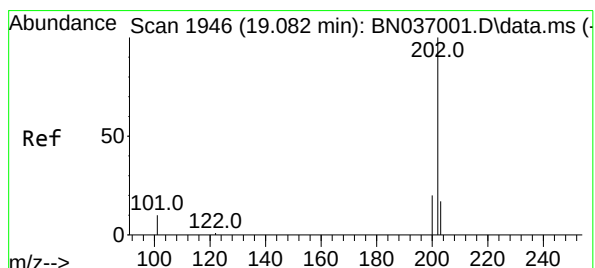
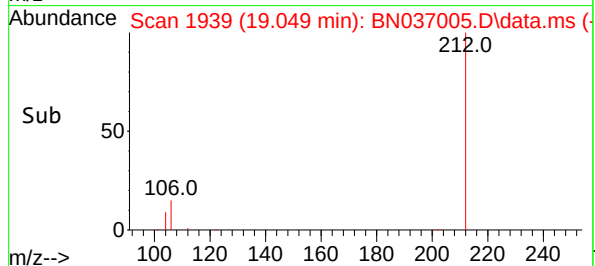
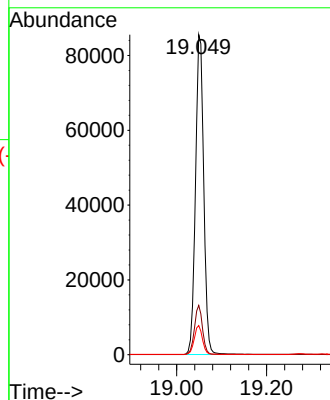
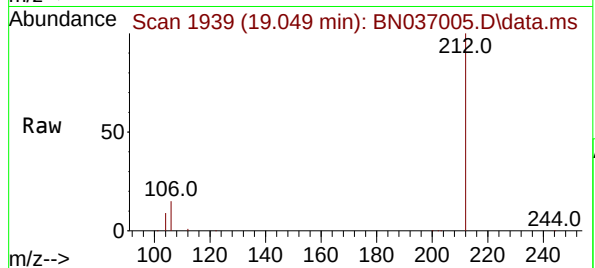
Tgt Ion:212 Resp: 108672

Ion Ratio Lower Upper

212 100

106 15.0 11.3 16.9

104 8.9 6.7 10.1



#28

Fluoranthene

Concen: 5.421 ng

RT: 19.081 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

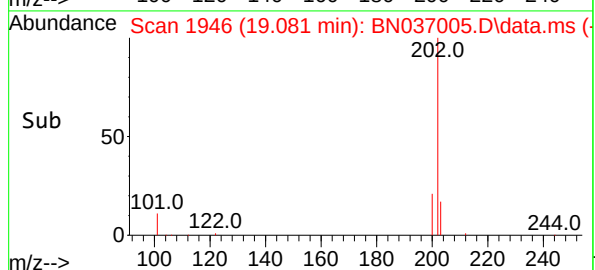
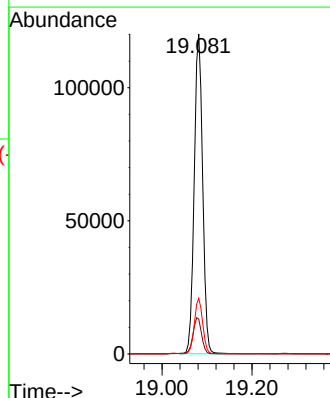
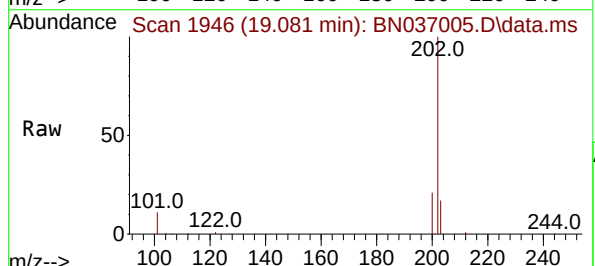
Tgt Ion:202 Resp: 156131

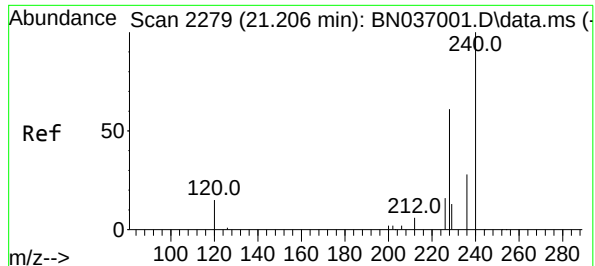
Ion Ratio Lower Upper

202 100

101 11.7 8.9 13.3

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

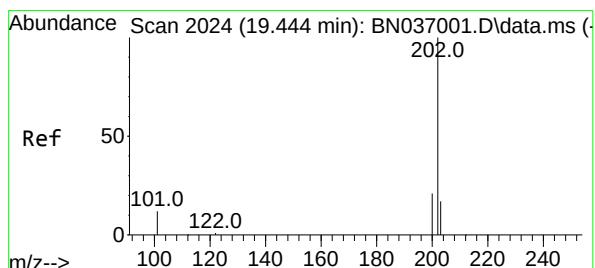
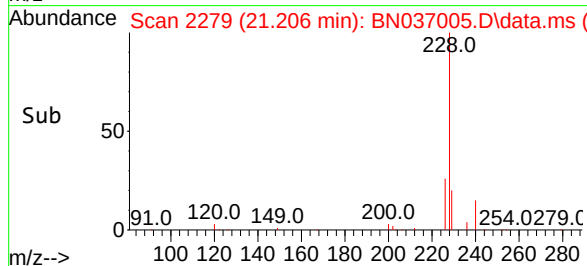
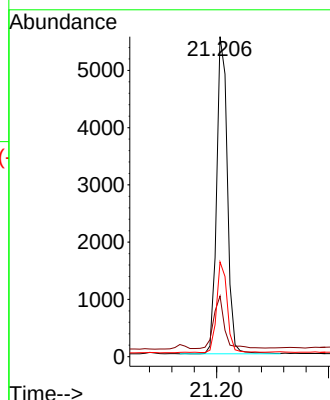
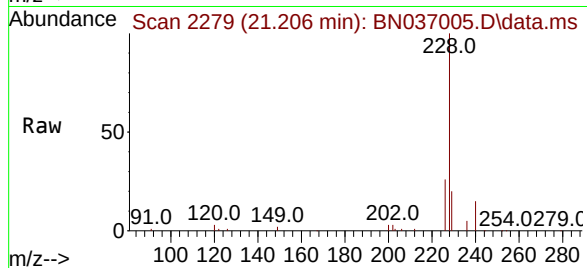
Tgt Ion:240 Resp: 7435

Ion Ratio Lower Upper

240 100

120 19.0 15.1 22.7

236 29.6 24.0 36.0



#30

Pyrene

Concen: 5.001 ng

RT: 19.444 min Scan# 2024

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

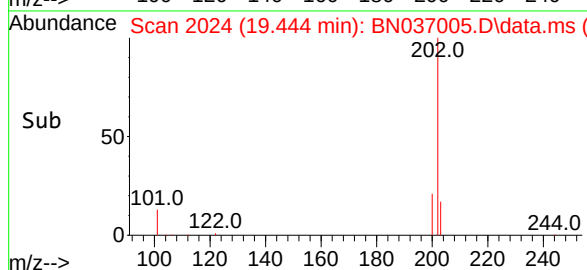
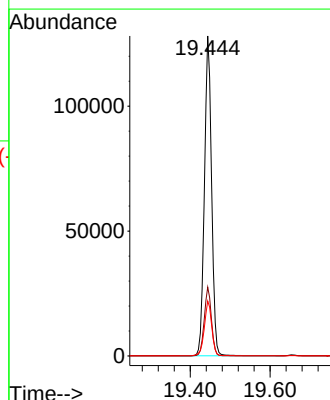
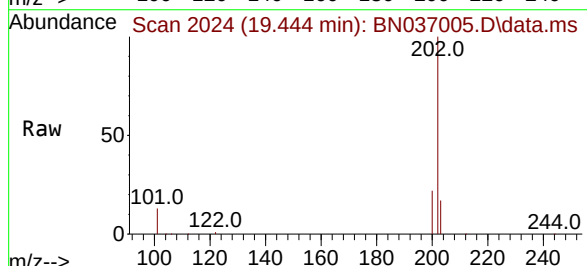
Tgt Ion:202 Resp: 159039

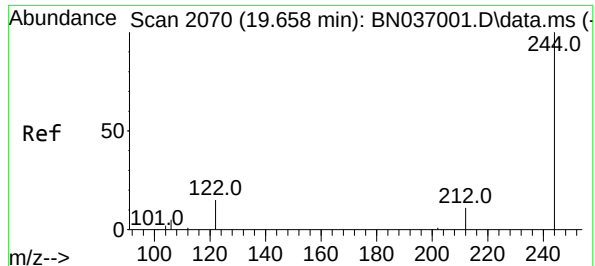
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4

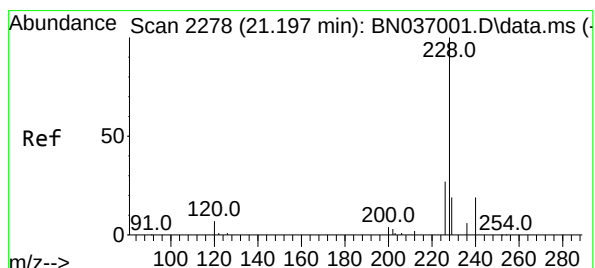
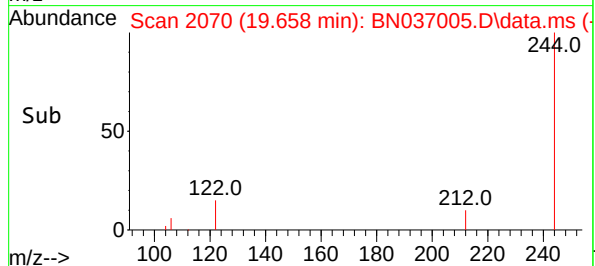
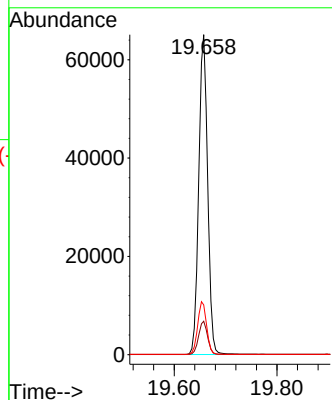
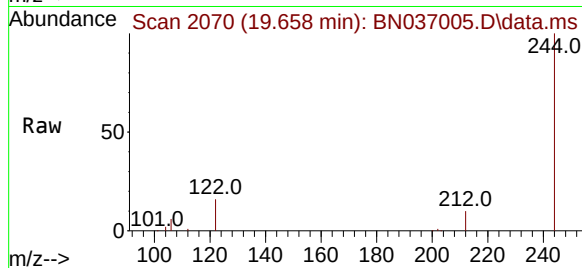




#31
Terphenyl-d14
Concen: 4.953 ng
RT: 19.658 min Scan# 2070
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

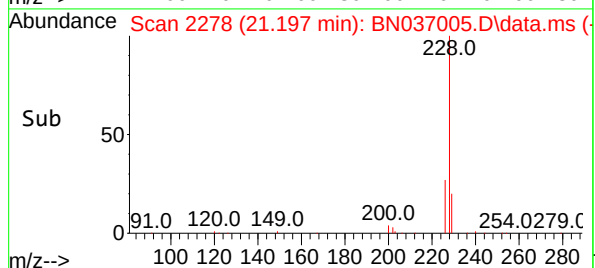
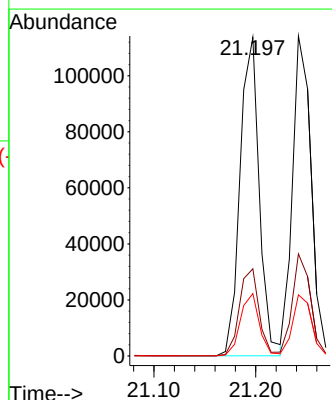
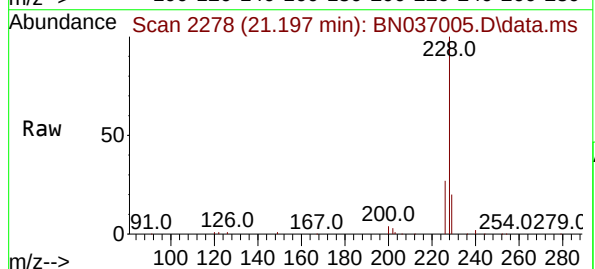
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

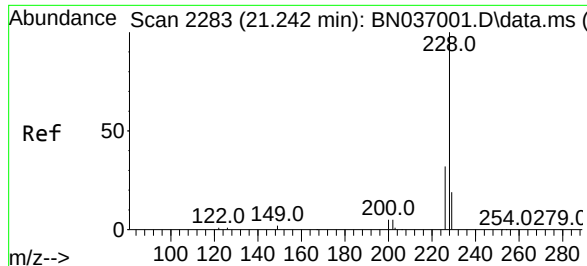
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	9.7	14.5
122	15.6	13.4	20.0



#32
Benzo(a)anthracene
Concen: 5.341 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.4
229	19.6	16.0	24.0





#33

Chrysene

Concen: 4.946 ng

RT: 21.242 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

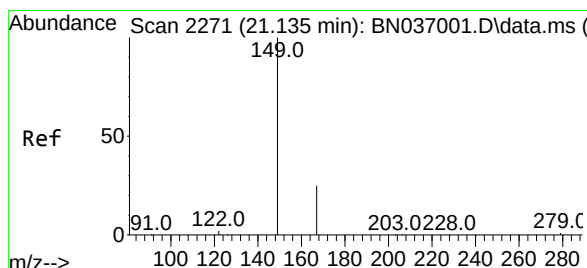
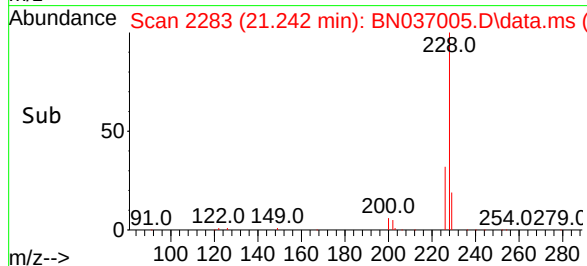
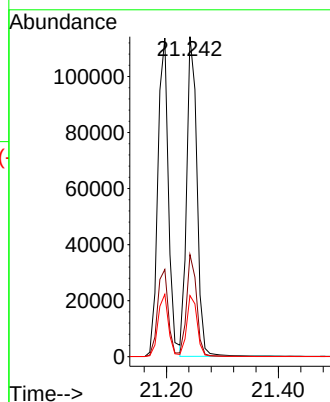
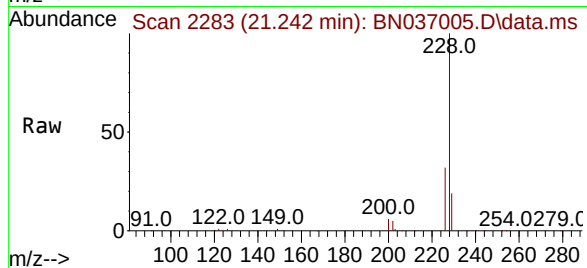
Tgt Ion:228 Resp: 146457

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.445 ng

RT: 21.134 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

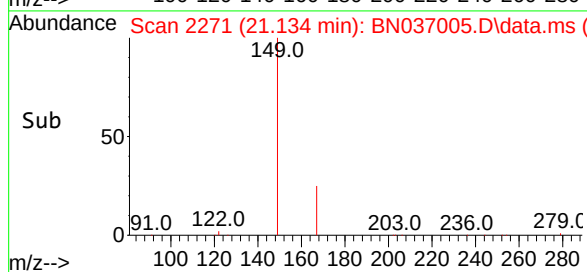
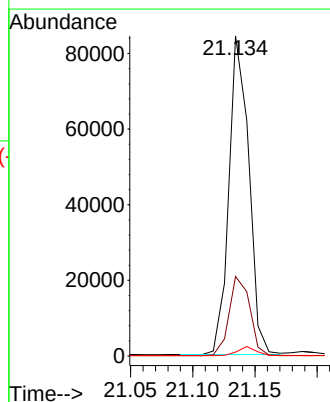
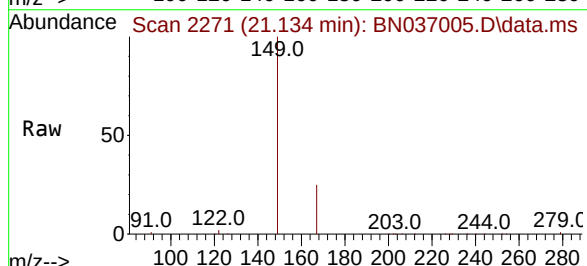
Tgt Ion:149 Resp: 93938

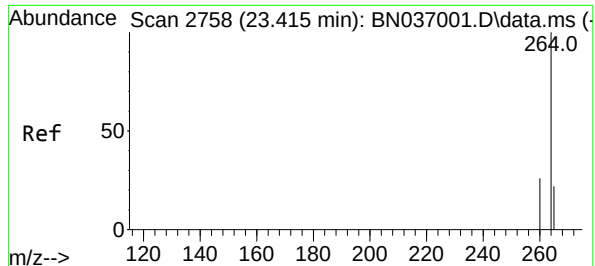
Ion Ratio Lower Upper

149 100

167 25.9 20.6 30.8

279 2.6 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.412 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

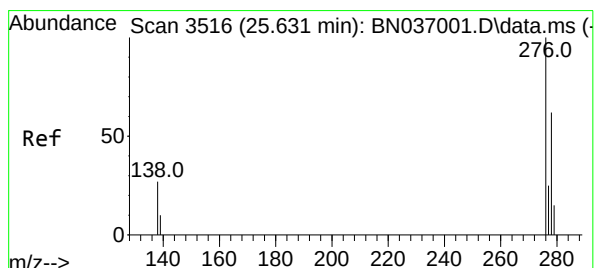
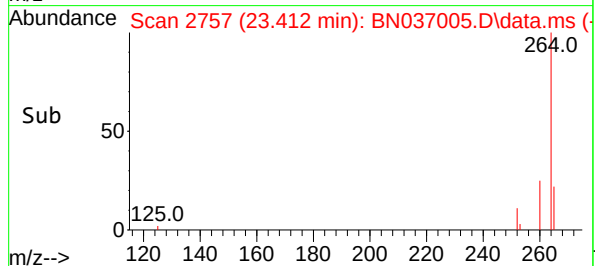
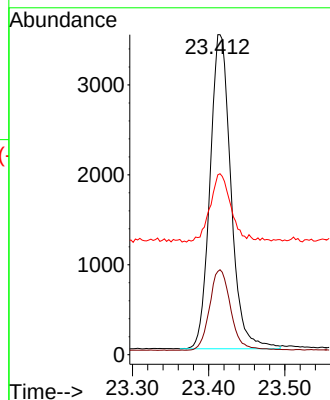
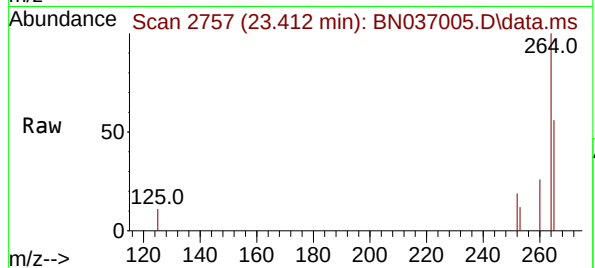
Tgt Ion:264 Resp: 6657

Ion Ratio Lower Upper

264 100

260 26.0 21.9 32.9

265 56.2 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.141 ng

RT: 25.628 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

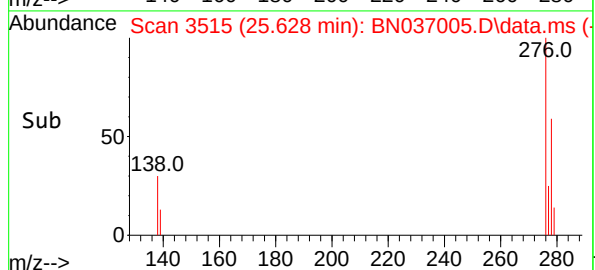
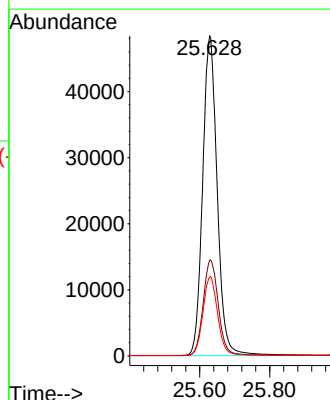
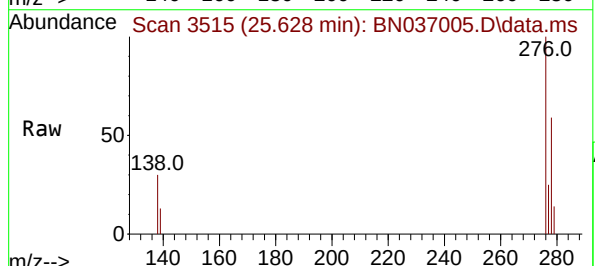
Tgt Ion:276 Resp: 139772

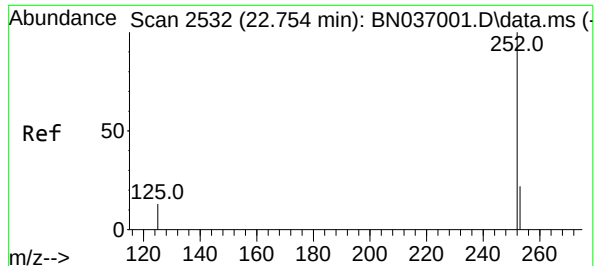
Ion Ratio Lower Upper

276 100

138 31.4 22.7 34.1

277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.323 ng

RT: 22.754 min Scan# 2532

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

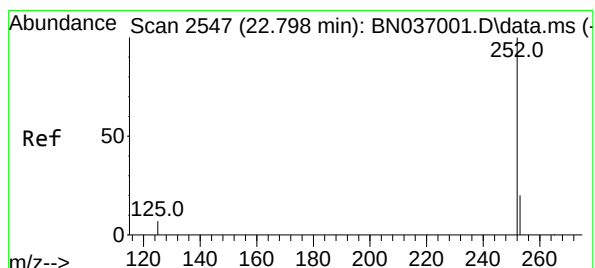
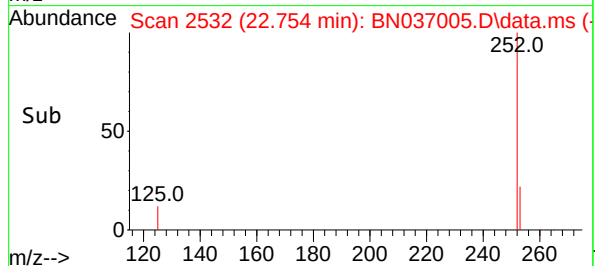
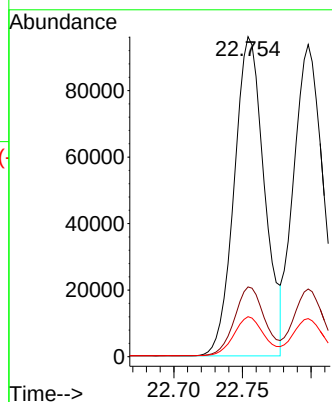
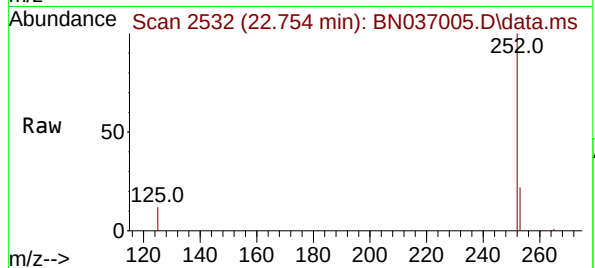
Tgt Ion:252 Resp: 146896

Ion Ratio Lower Upper

252 100

253 21.8 21.8 32.6

125 12.5 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 5.244 ng

RT: 22.798 min Scan# 2547

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

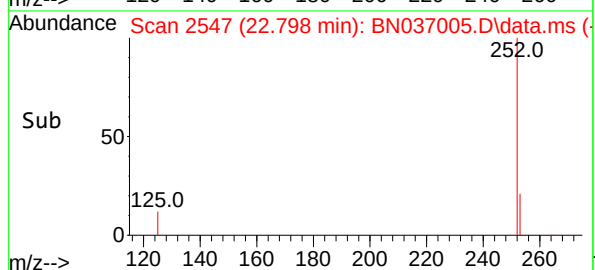
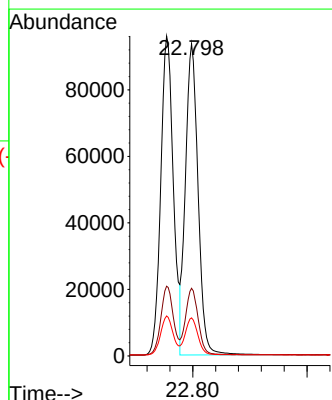
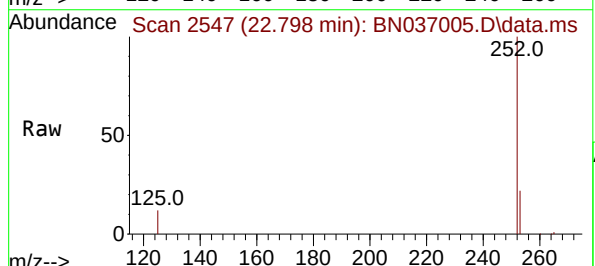
Tgt Ion:252 Resp: 143001

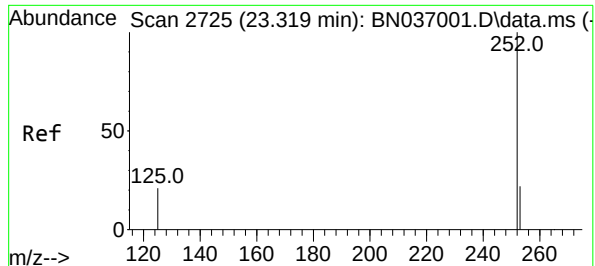
Ion Ratio Lower Upper

252 100

253 21.7 21.4 32.2

125 12.2 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 5.280 ng

RT: 23.318 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

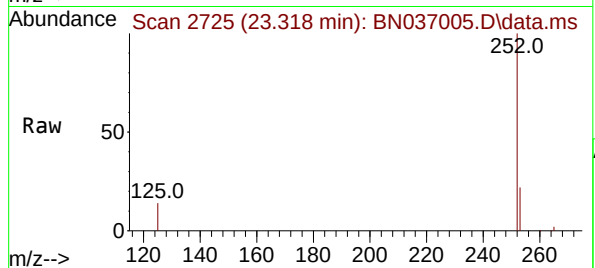
Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



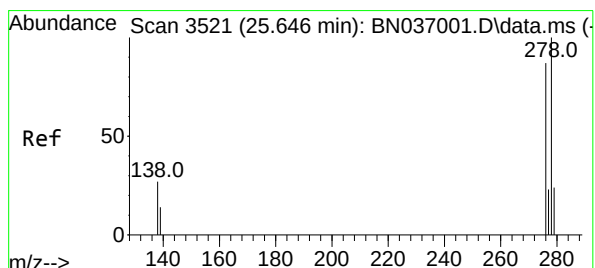
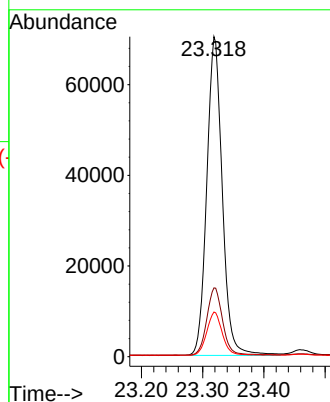
Tgt Ion:252 Resp: 123679

Ion Ratio Lower Upper

252 100

253 21.5 23.8 35.6#

125 13.9 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.241 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

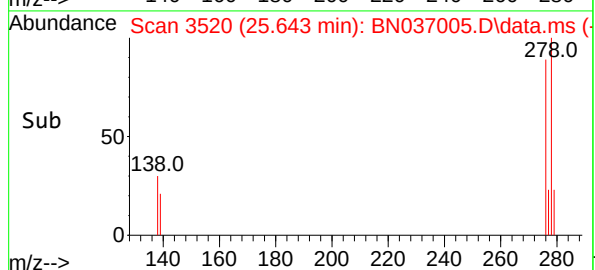
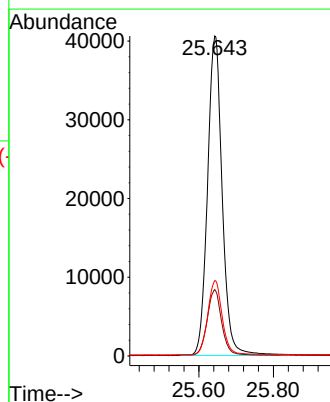
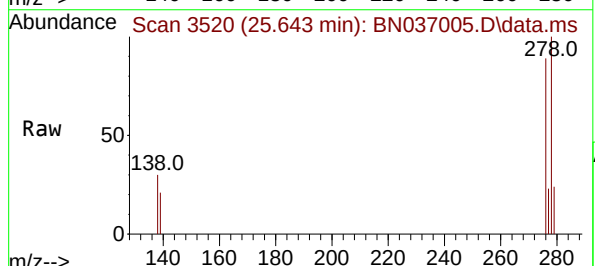
Tgt Ion:278 Resp: 111001

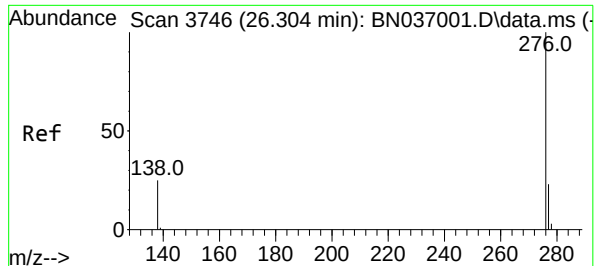
Ion Ratio Lower Upper

278 100

139 20.8 17.4 26.0

279 23.6 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 4.975 ng

RT: 26.309 min Scan# 31

Delta R.T. 0.005 min

Lab File: BN037005.D

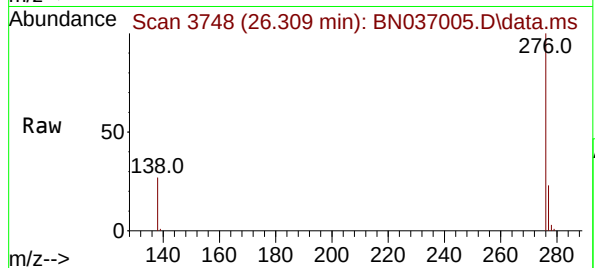
Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



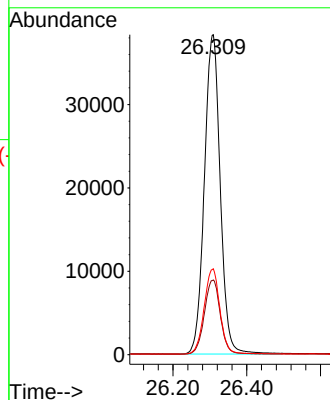
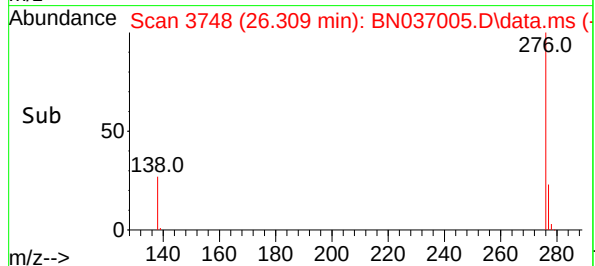
Tgt Ion:276 Resp: 114459

Ion Ratio Lower Upper

276 100

277 23.4 20.2 30.4

138 26.9 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037006.D
 Acq On : 13 May 2025 22:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

Quant Time: May 14 11:28:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

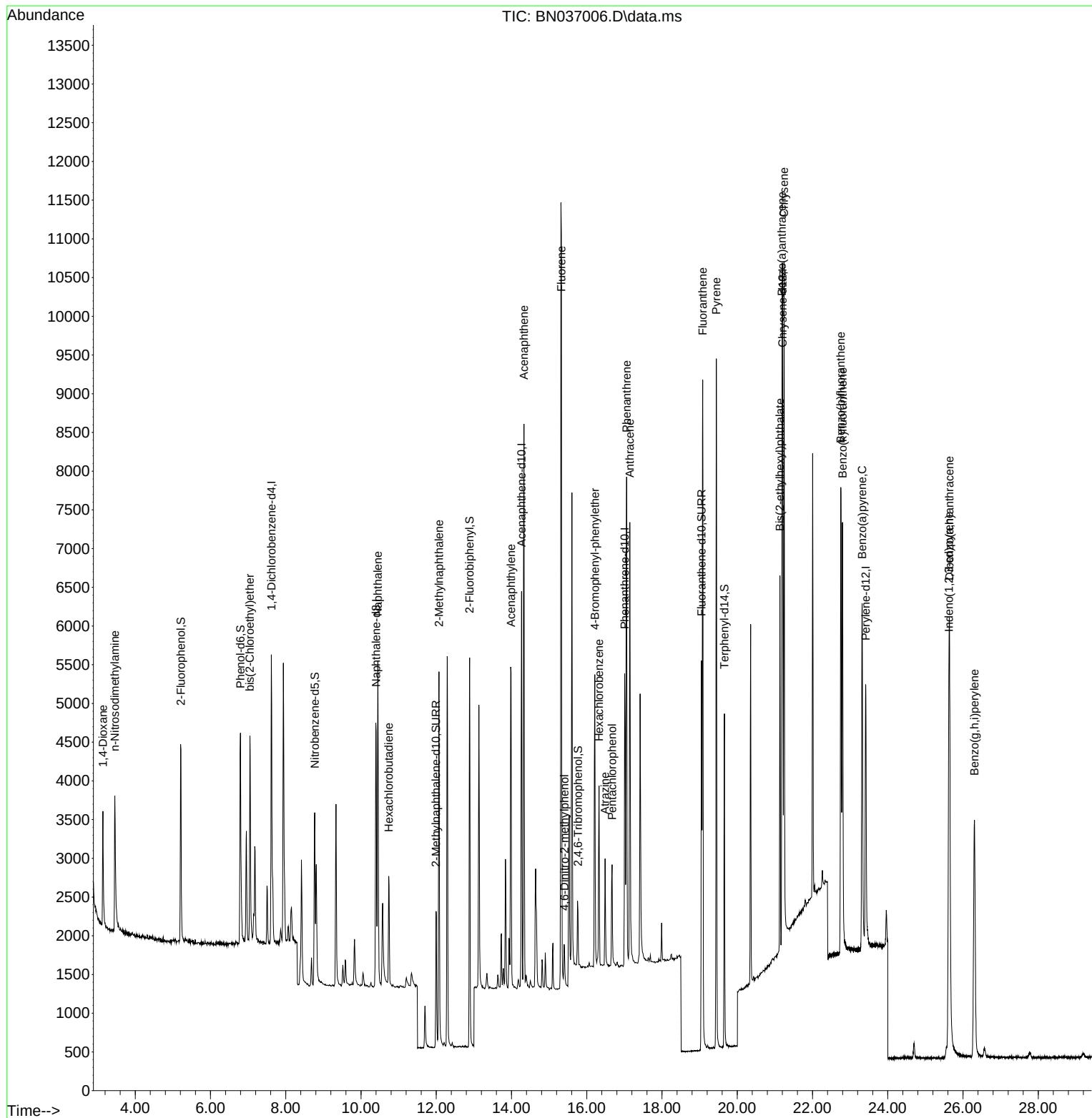
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1738	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4666	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	2720	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	5359	0.400	ng	0.00
29) Chrysene-d12	21.206	240	4597	0.400	ng	0.00
35) Perylene-d12	23.415	264	4432	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1928	0.423	ng	0.00
5) Phenol-d6	6.795	99	2325	0.408	ng	0.00
8) Nitrobenzene-d5	8.771	82	1928	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	2642	0.402	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	474	0.397	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	5054	0.406	ng	0.00
27) Fluoranthene-d10	19.049	212	5648	0.384	ng	0.00
31) Terphenyl-d14	19.658	244	4080	0.415	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	868	0.407	ng	95
3) n-Nitrosodimethylamine	3.458	42	1788	0.390	ng	# 92
6) bis(2-Chloroethyl)ether	7.048	93	2010	0.383	ng	100
9) Naphthalene	10.447	128	5367	0.389	ng	99
10) Hexachlorobutadiene	10.735	225	1150	0.397	ng	# 99
12) 2-Methylnaphthalene	12.072	142	3513	0.396	ng	98
16) Acenaphthylene	13.989	152	5019	0.379	ng	100
17) Acenaphthene	14.331	154	3352	0.387	ng	100
18) Fluorene	15.325	166	4398	0.388	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	410	0.396	ng	88
21) 4-Bromophenyl-phenylether	16.214	248	1326	0.392	ng	98
22) Hexachlorobenzene	16.326	284	1488	0.411	ng	98
23) Atrazine	16.487	200	1120	0.379	ng	98
24) Pentachlorophenol	16.673	266	672	0.336	ng	93
25) Phenanthrene	17.058	178	6852	0.391	ng	99
26) Anthracene	17.145	178	6126	0.384	ng	99
28) Fluoranthene	19.082	202	7940	0.380	ng	99
30) Pyrene	19.444	202	8093	0.412	ng	100
32) Benzo(a)anthracene	21.189	228	6824	0.394	ng	98
33) Chrysene	21.242	228	7298	0.399	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	4120	0.387	ng	99
36) Indeno(1,2,3-cd)pyrene	25.623	276	7358	0.407	ng	98
37) Benzo(b)fluoranthene	22.752	252	7184	0.391	ng	99
38) Benzo(k)fluoranthene	22.798	252	7438	0.410	ng	99
39) Benzo(a)pyrene	23.319	252	6167	0.395	ng	98
40) Dibenzo(a,h)anthracene	25.640	278	5621	0.399	ng	98
41) Benzo(g,h,i)perylene	26.304	276	6268	0.409	ng	99

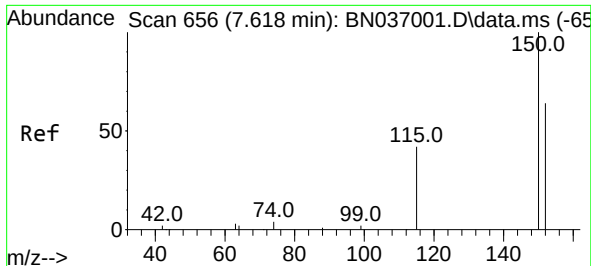
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

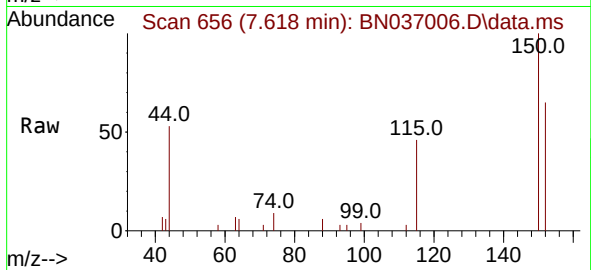
Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



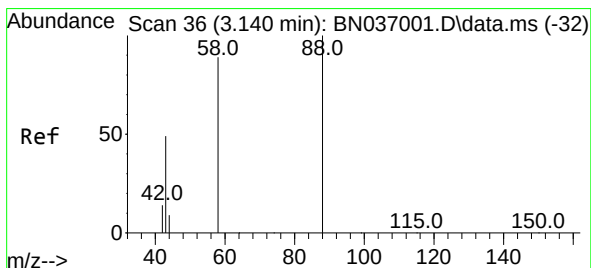
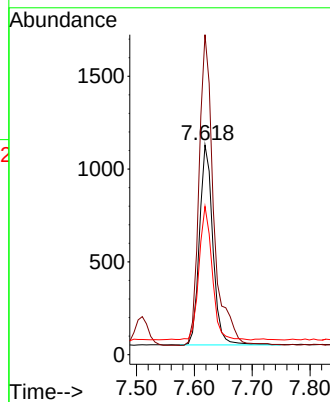
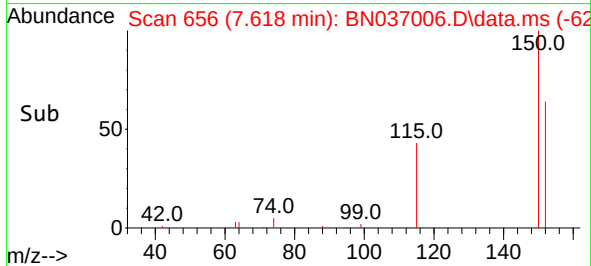


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.618 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

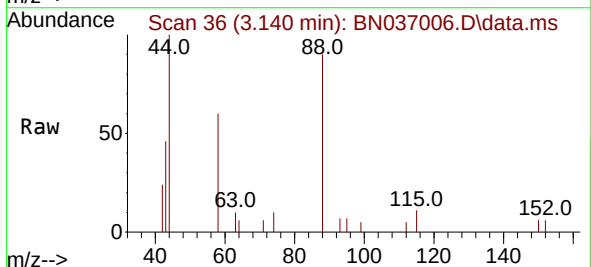
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424



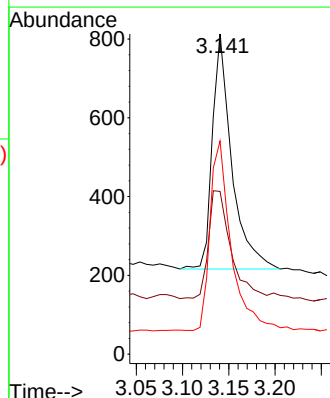
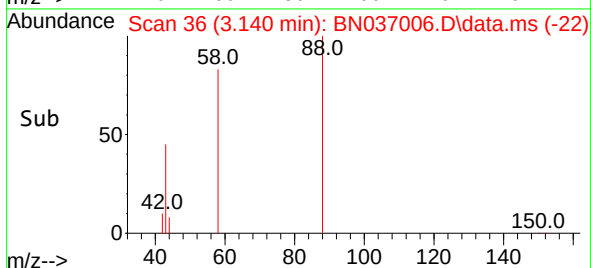
Tgt Ion:152 Resp: 1738
 Ion Ratio Lower Upper
 152 100
 150 152.7 123.9 185.9
 115 70.8 55.8 83.8

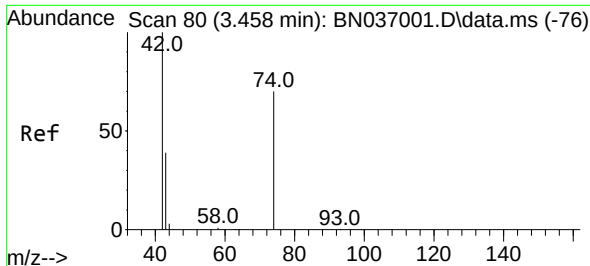


#2
 1,4-Dioxane
 Concen: 0.407 ng
 RT: 3.140 min Scan# 36
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29



Tgt Ion: 88 Resp: 868
 Ion Ratio Lower Upper
 88 100
 43 53.6 37.4 56.0
 58 87.7 68.8 103.2

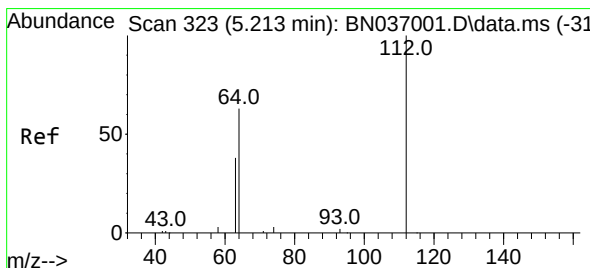
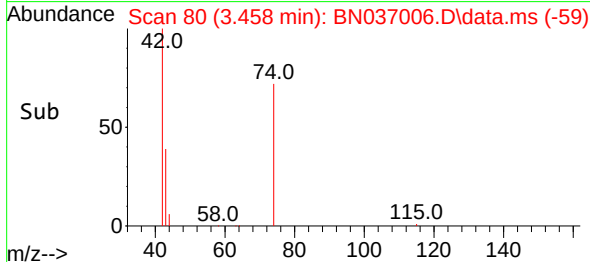
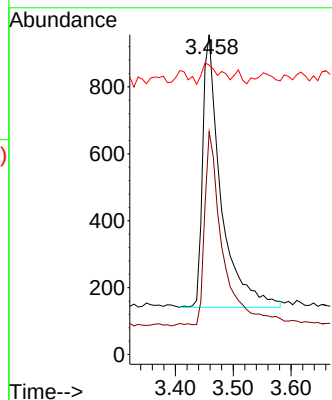
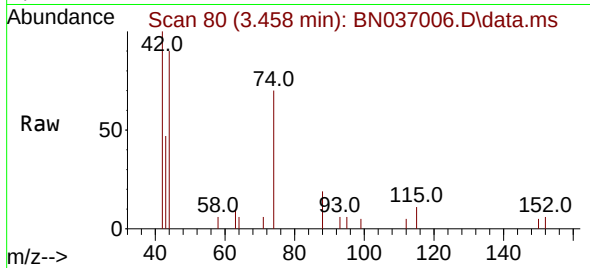




#3
 n-Nitrosodimethylamine
 Concen: 0.390 ng
 RT: 3.458 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

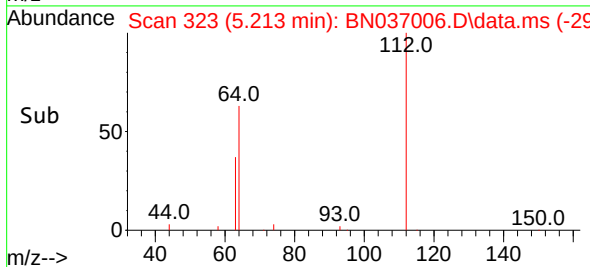
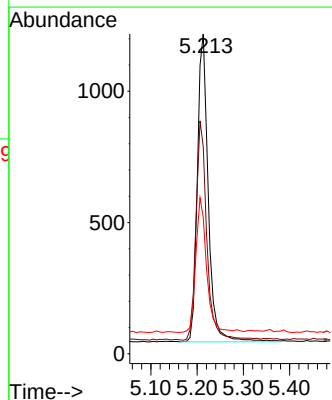
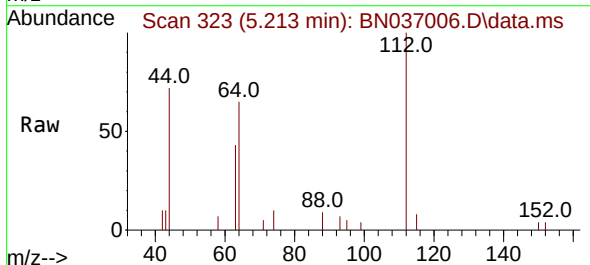
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

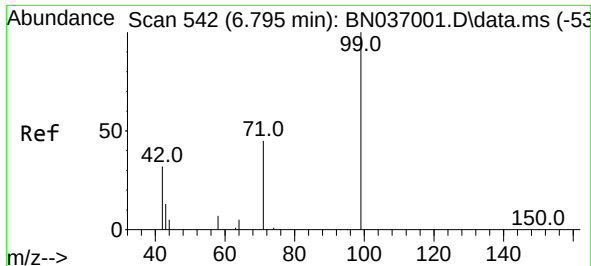
Tgt Ion: 42 Resp: 1788
 Ion Ratio Lower Upper
 42 100
 74 69.1 59.8 89.6
 44 7.4 11.9 17.9#



#4
 2-Fluorophenol
 Concen: 0.423 ng
 RT: 5.213 min Scan# 323
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion: 112 Resp: 1928
 Ion Ratio Lower Upper
 112 100
 64 71.3 55.7 83.5
 63 43.4 34.6 51.8

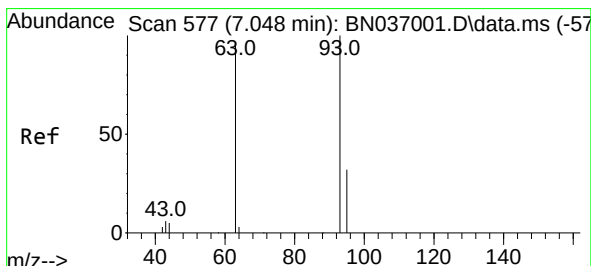
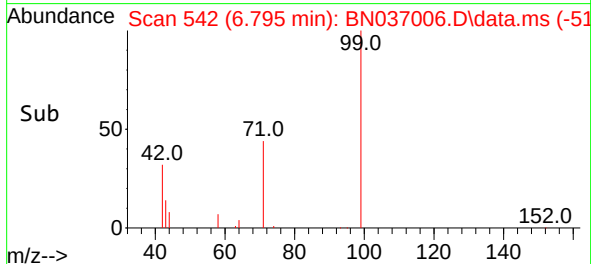
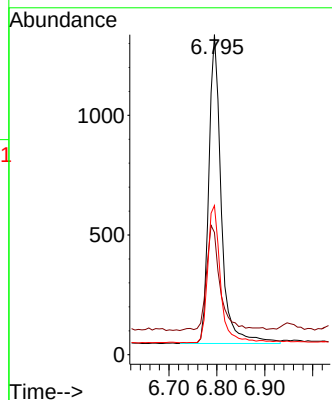
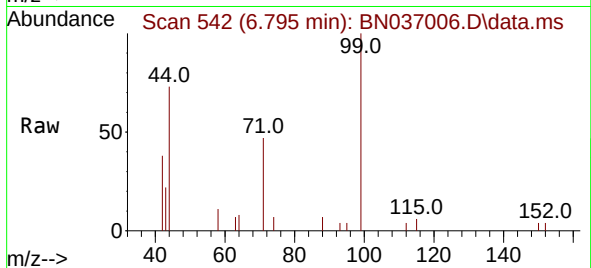




#5
Phenol-d6
Concen: 0.408 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

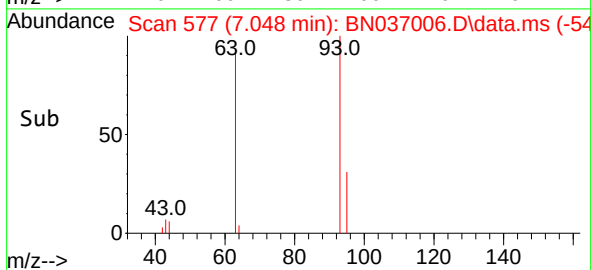
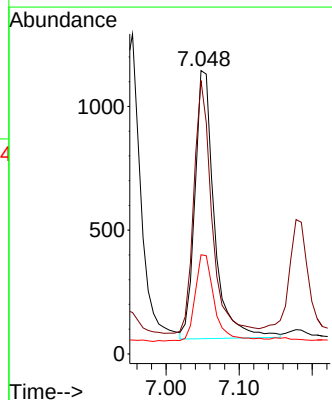
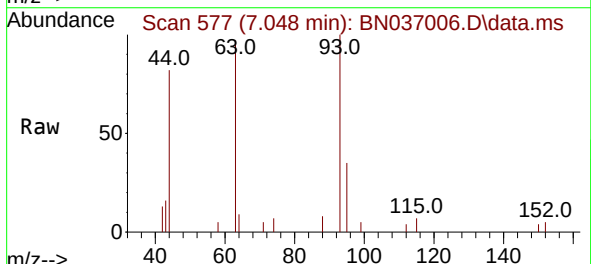
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

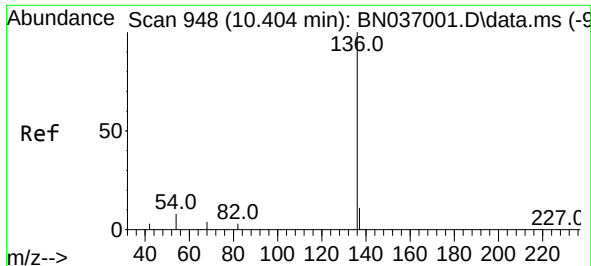
Tgt Ion: 99 Resp: 2325
Ion Ratio Lower Upper
99 100
42 38.2 29.3 43.9
71 45.8 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion: 93 Resp: 2010
Ion Ratio Lower Upper
93 100
63 87.3 70.1 105.1
95 32.9 26.2 39.2

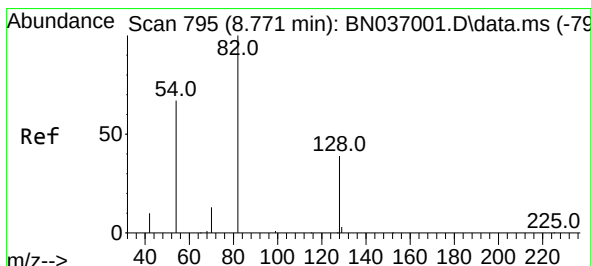
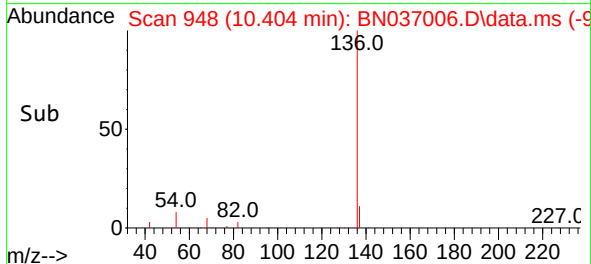
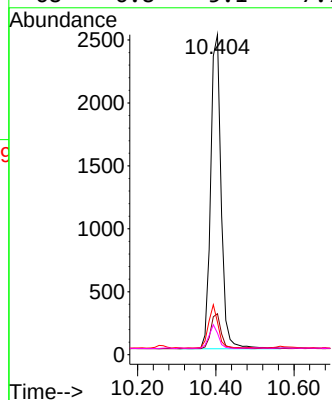
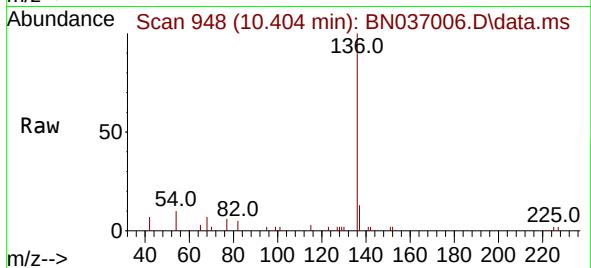




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

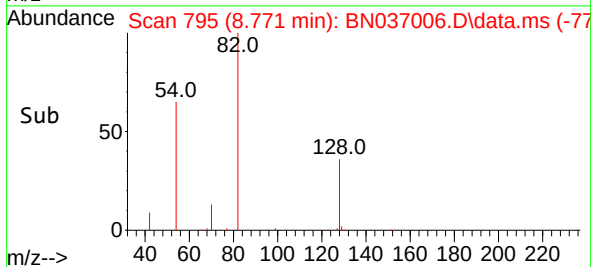
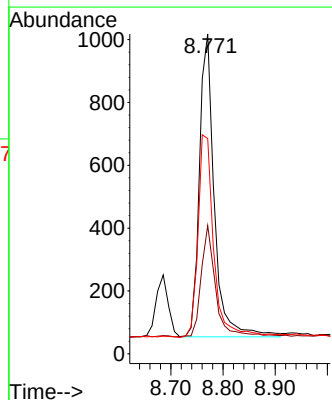
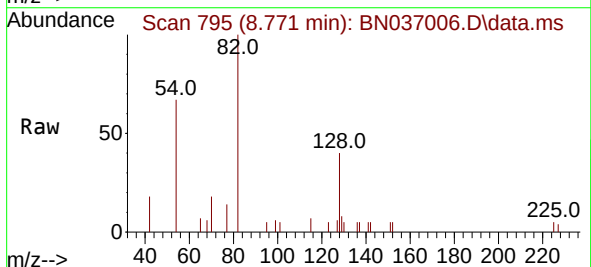
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

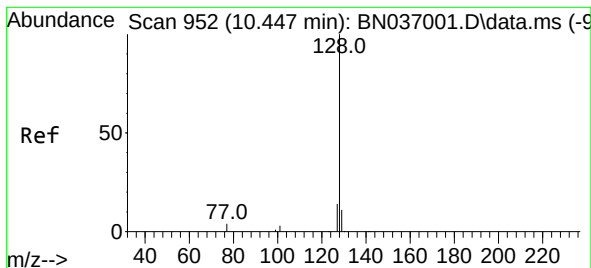
Tgt Ion:	136	Resp:	4666
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	10.1	8.5	12.7
68	6.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:	82	Resp:	1928
Ion	Ratio	Lower	Upper
82	100		
128	40.1	34.0	51.0
54	67.3	55.0	82.4





#9

Naphthalene

Concen: 0.389 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA_N

ClientSampleId :

ICVBN051424

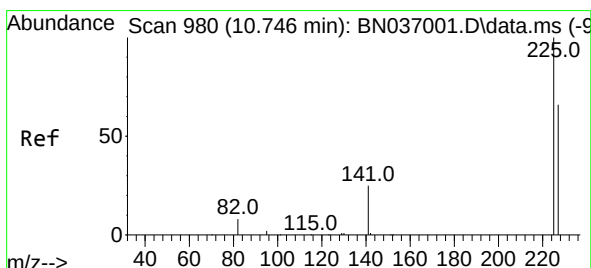
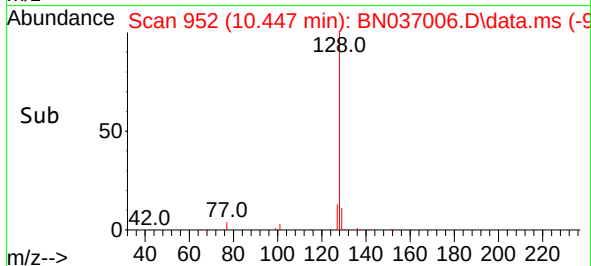
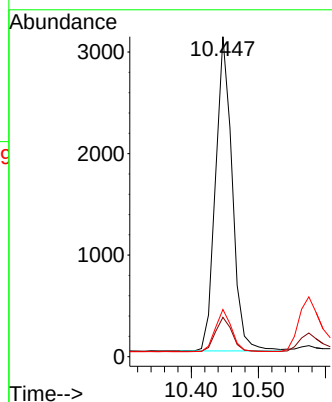
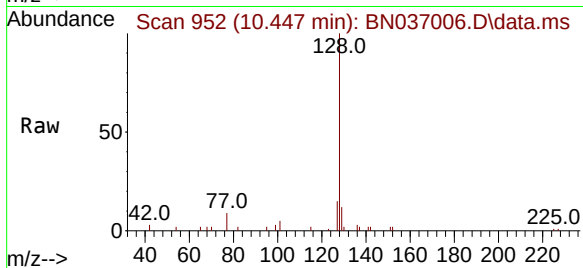
Tgt Ion:128 Resp: 5367

Ion Ratio Lower Upper

128 100

129 12.3 9.7 14.5

127 14.8 12.4 18.6



#10

Hexachlorobutadiene

Concen: 0.397 ng

RT: 10.735 min Scan# 979

Delta R.T. -0.011 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

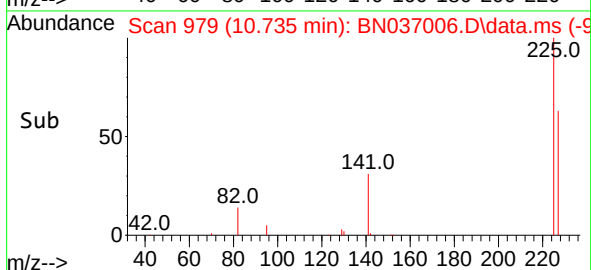
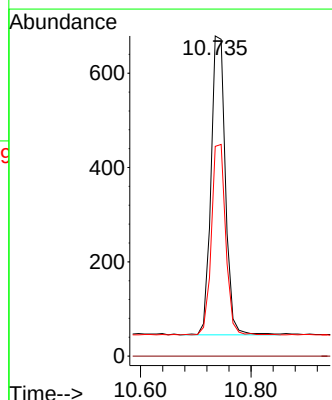
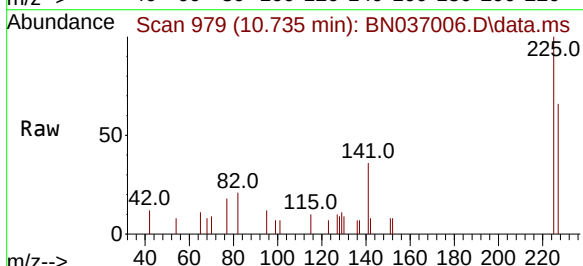
Tgt Ion:225 Resp: 1150

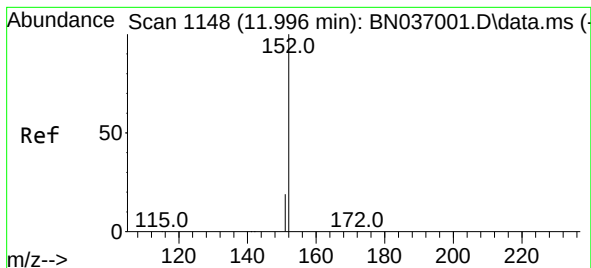
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.1 50.9 76.3

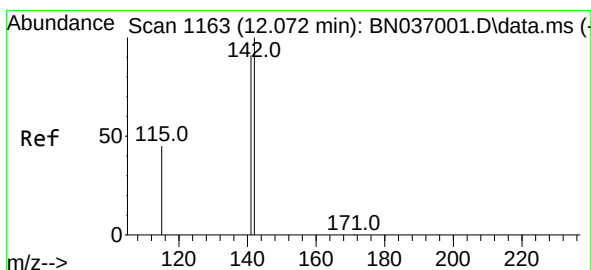
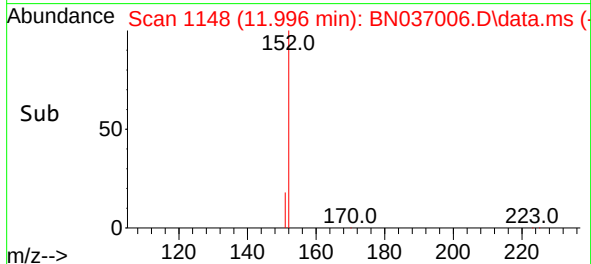
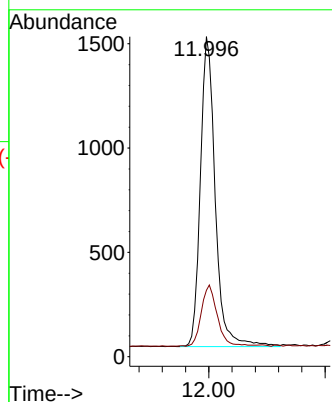
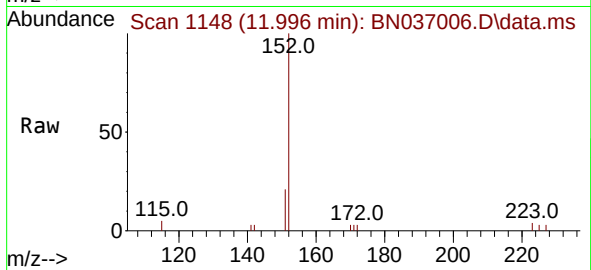




#11
2-Methylnaphthalene-d10
Concen: 0.402 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

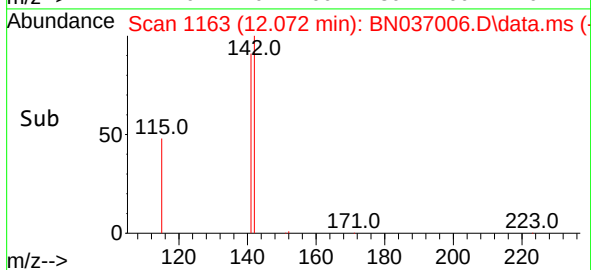
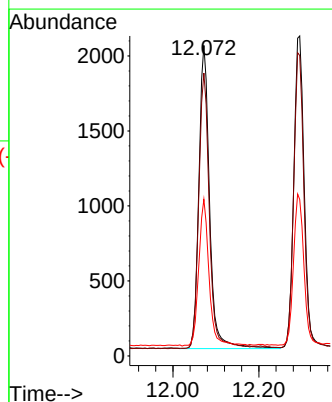
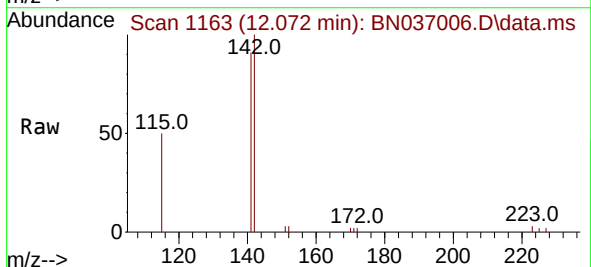
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

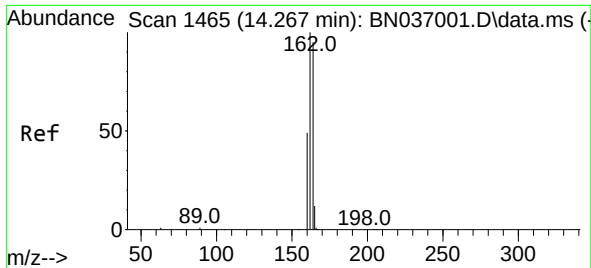
Tgt Ion:152 Resp: 2642
Ion Ratio Lower Upper
152 100
151 21.2 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:142 Resp: 3513
Ion Ratio Lower Upper
142 100
141 91.1 73.3 109.9
115 50.4 38.4 57.6

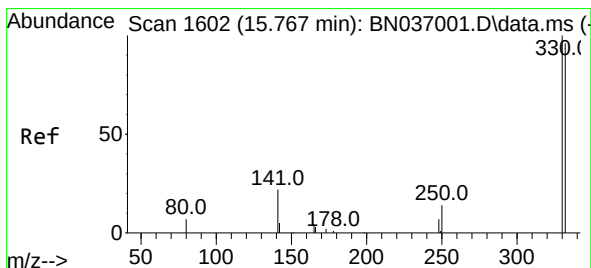
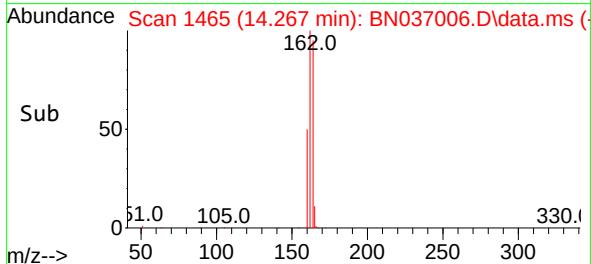
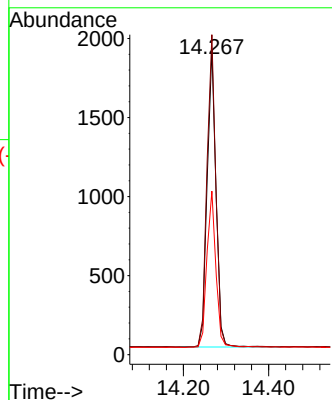
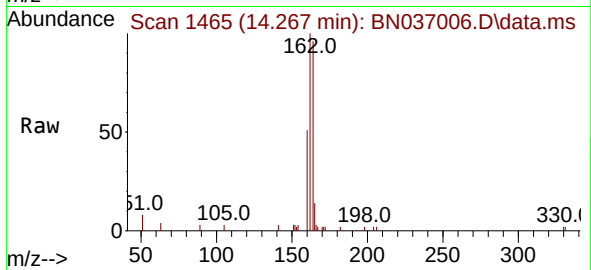




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

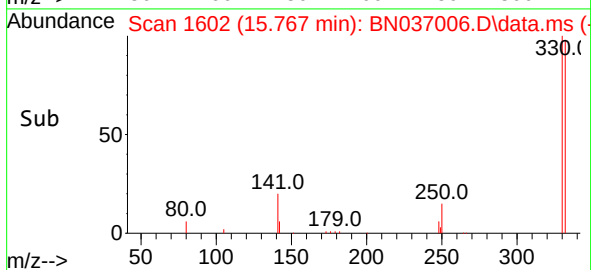
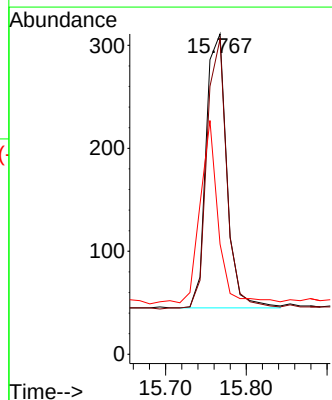
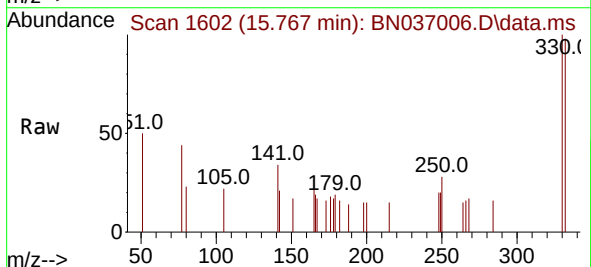
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

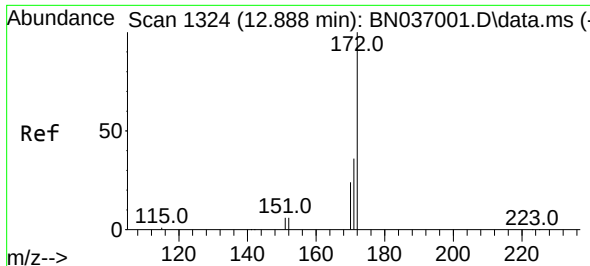
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.7	84.2	126.4
160	53.5	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.0	73.8	110.8
141	59.7	43.9	65.9

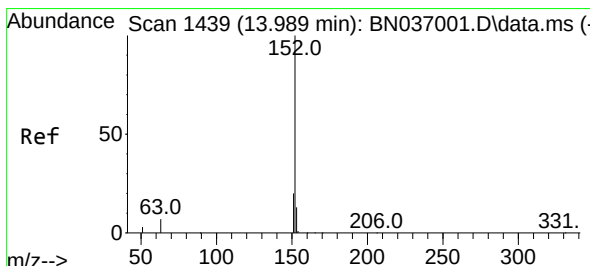
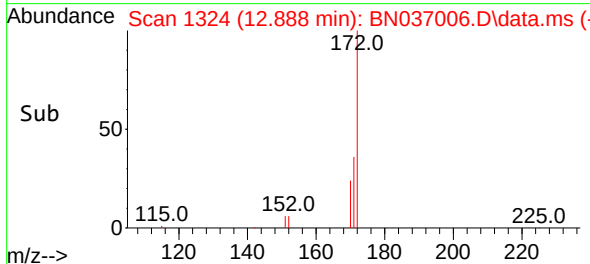
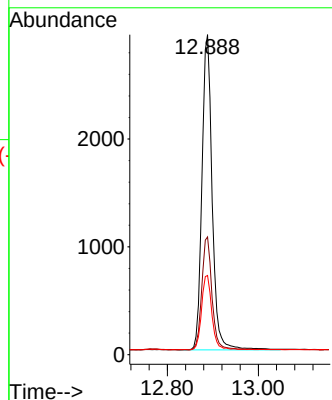
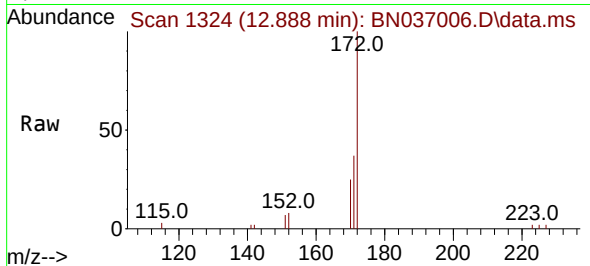




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

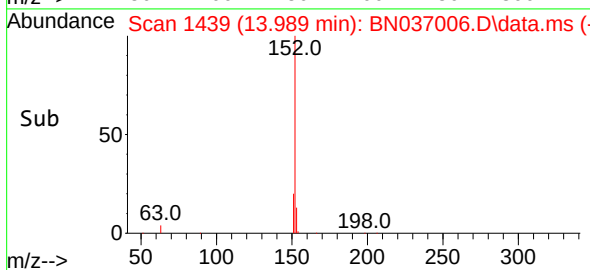
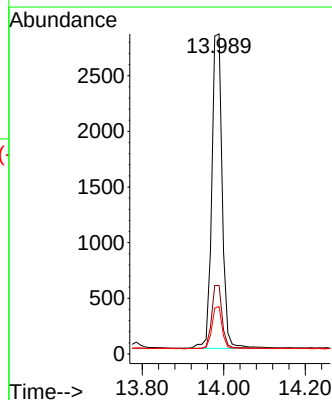
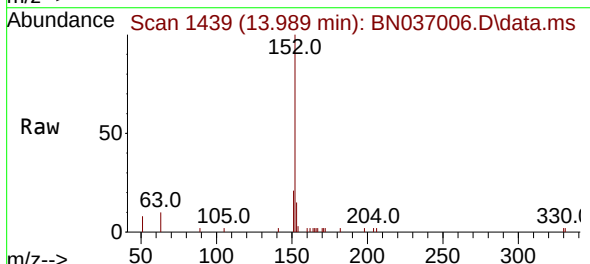
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

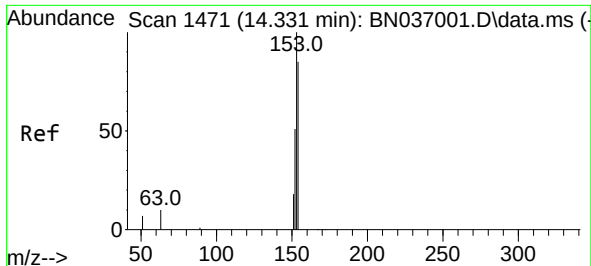
Tgt Ion:	172	Resp:	5054
Ion	Ratio	Lower	Upper
172	100		
171	36.8	29.2	43.8
170	24.8	20.5	30.7



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

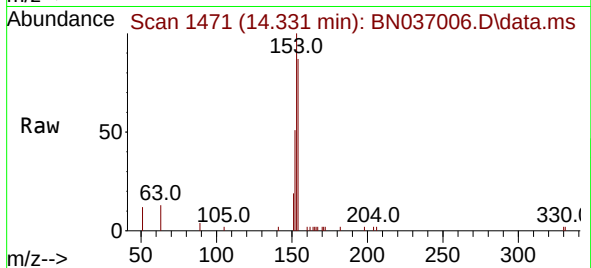
Tgt Ion:	152	Resp:	5019
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.4	10.5	15.7



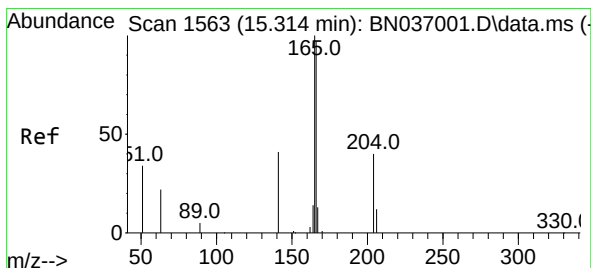
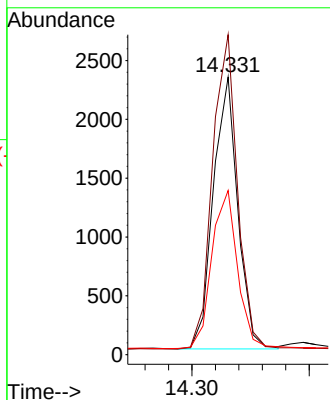
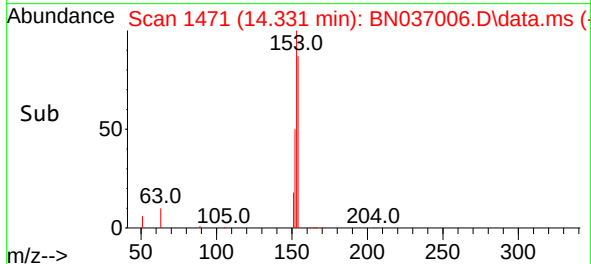


#17
Acenaphthene
Concen: 0.387 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

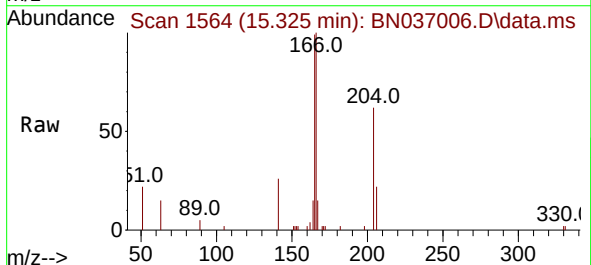
Instrument :
BNA_N
ClientSampleId :
ICVBN051424



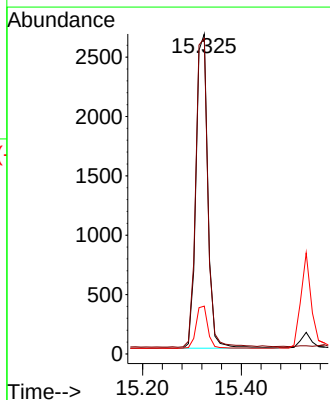
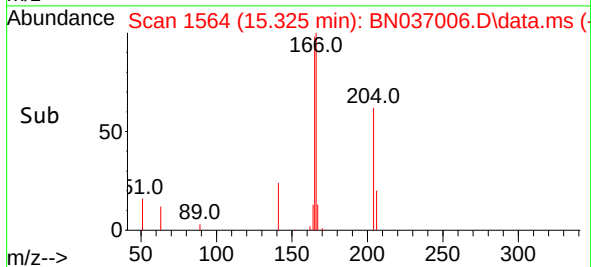
Tgt Ion:154 Resp: 3352
Ion Ratio Lower Upper
154 100
153 118.0 94.2 141.4
152 61.8 49.4 74.0

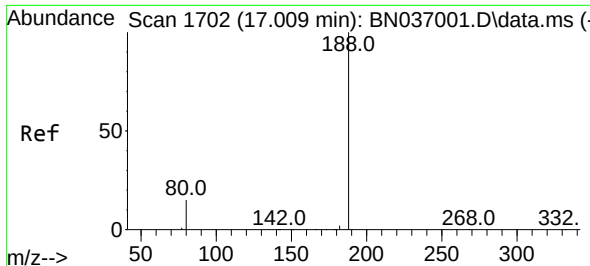


#18
Fluorene
Concen: 0.388 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29



Tgt Ion:166 Resp: 4398
Ion Ratio Lower Upper
166 100
165 100.3 80.6 120.8
167 13.7 10.6 16.0

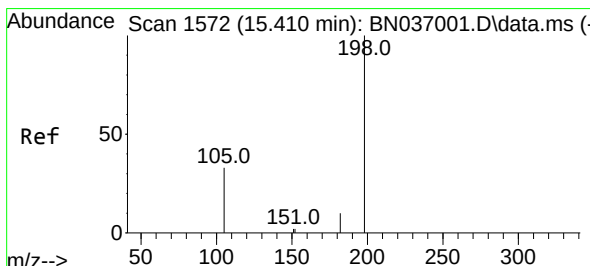
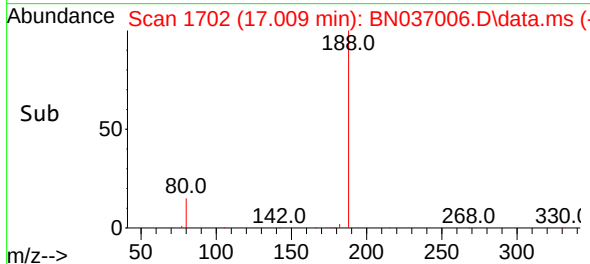
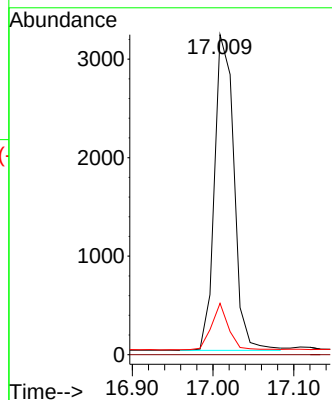
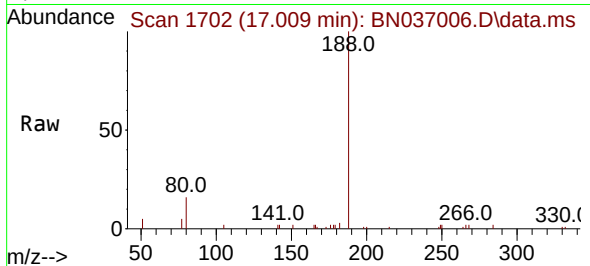




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

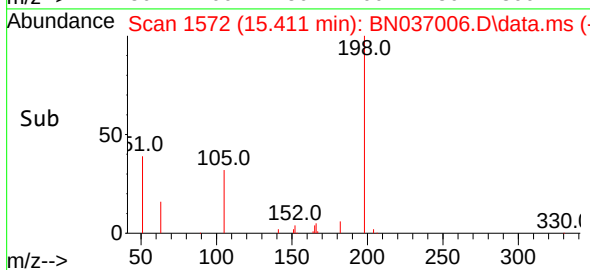
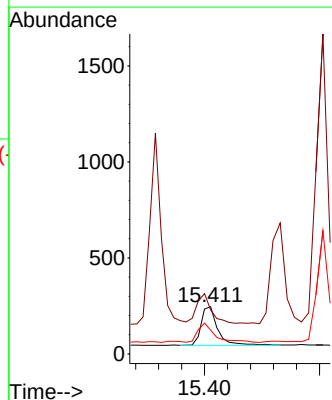
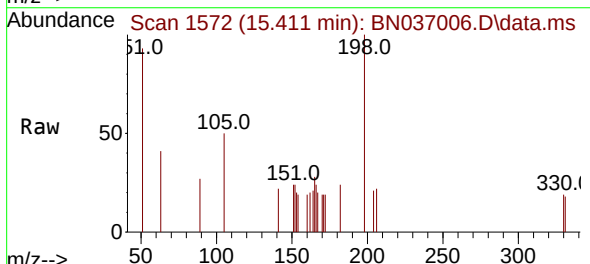
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

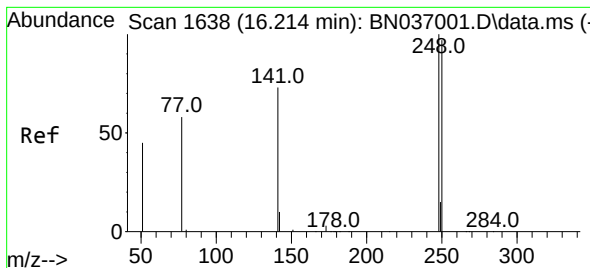
Tgt Ion:188 Resp: 5359
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.1 13.4 20.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.396 ng
RT: 15.411 min Scan# 1572
Delta R.T. 0.001 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:198 Resp: 410
Ion Ratio Lower Upper
198 100
51 93.5 87.8 131.6
105 50.4 44.2 66.4

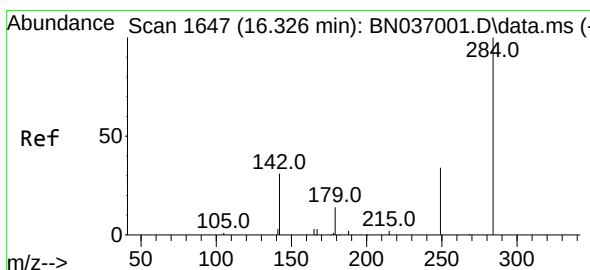
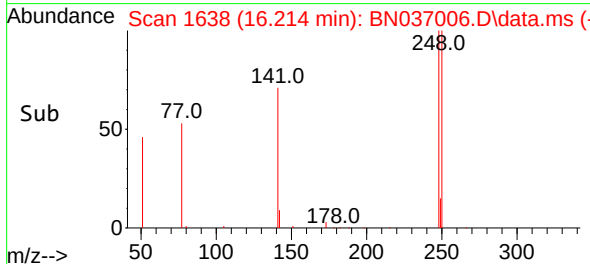
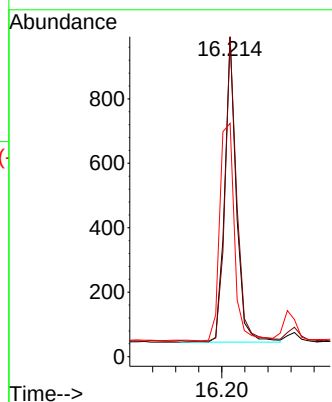
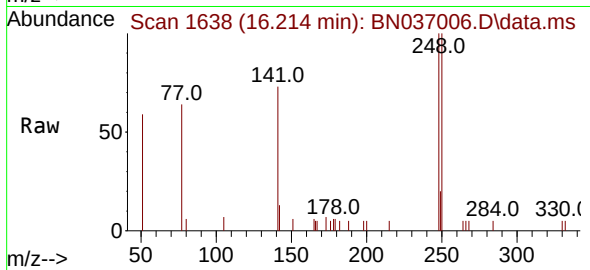




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

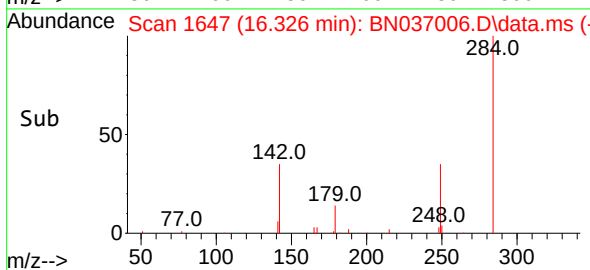
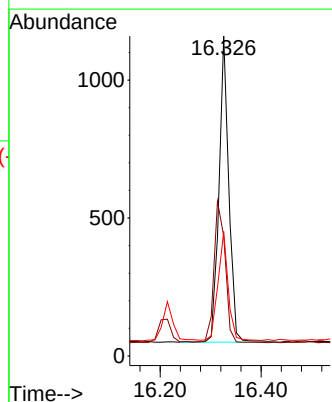
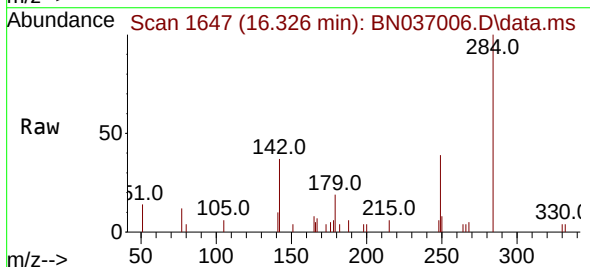
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

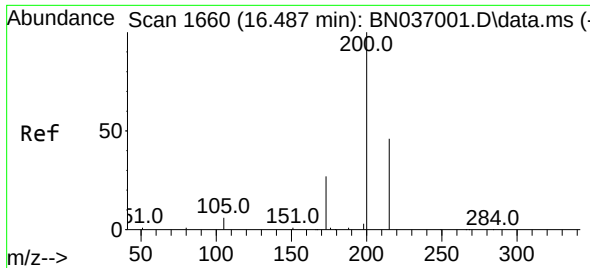
Tgt Ion:248 Resp: 1326
Ion Ratio Lower Upper
248 100
250 100.1 78.1 117.1
141 73.0 59.7 89.5



#22
Hexachlorobenzene
Concen: 0.411 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:284 Resp: 1488
Ion Ratio Lower Upper
284 100
142 53.0 41.2 61.8
249 37.0 28.7 43.1

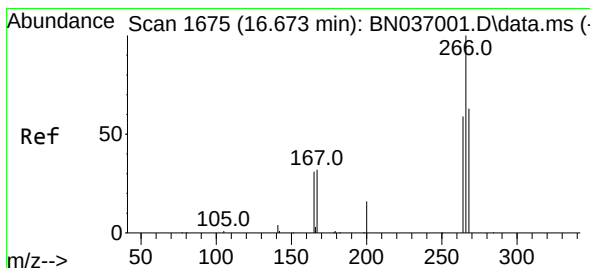
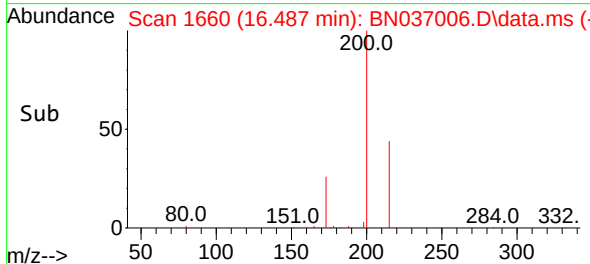
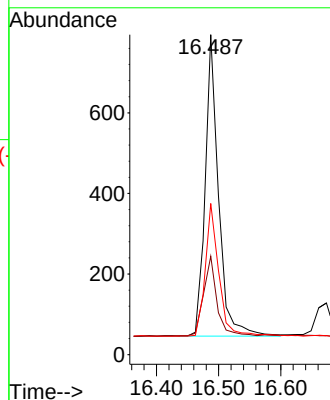
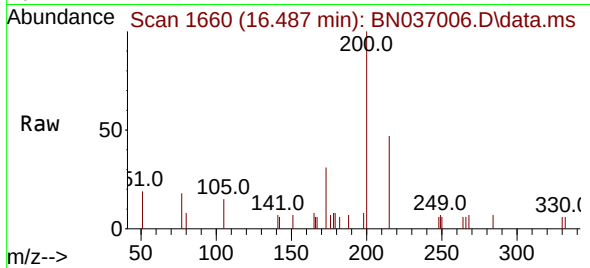




#23
 Atrazine
 Concen: 0.379 ng
 RT: 16.487 min Scan# 1660
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

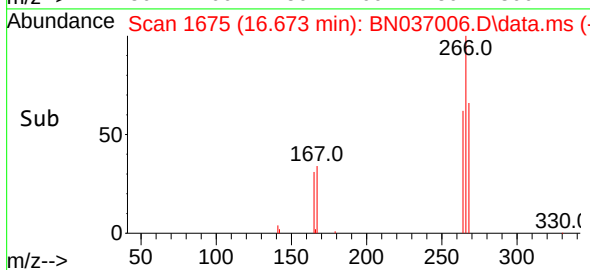
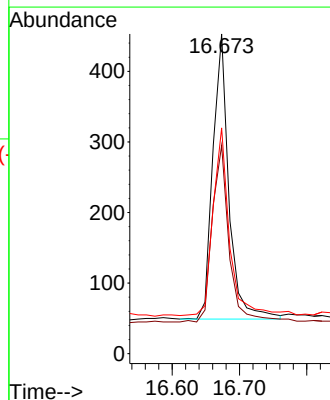
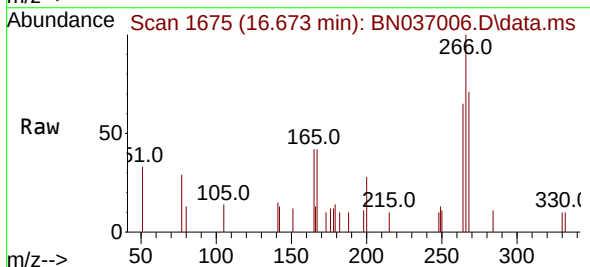
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

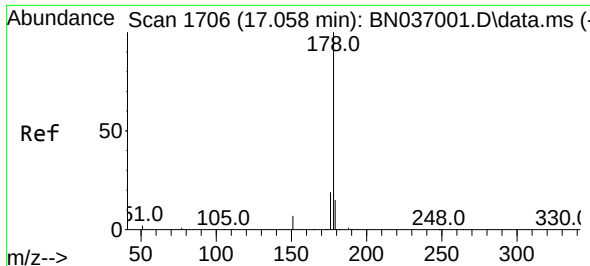
Tgt Ion:	200	Resp:	1120
Ion Ratio	Lower	Upper	
200	100		
173	30.7	25.2	37.8
215	47.2	39.3	58.9



#24
 Pentachlorophenol
 Concen: 0.336 ng
 RT: 16.673 min Scan# 1675
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion:	266	Resp:	672
Ion Ratio	Lower	Upper	
266	100		
264	64.9	47.9	71.9
268	67.7	50.0	75.0

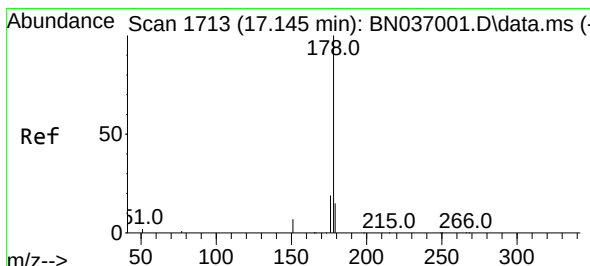
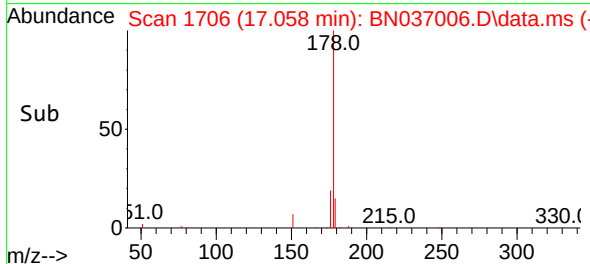
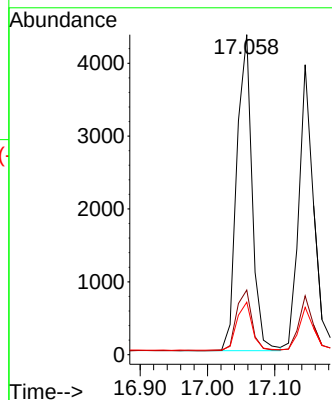
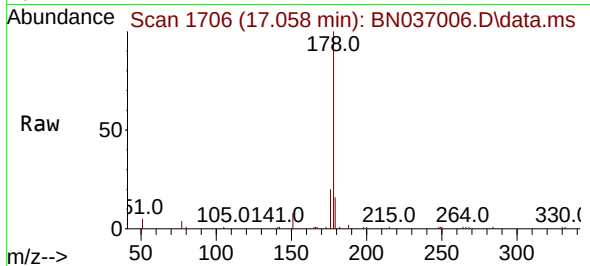




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

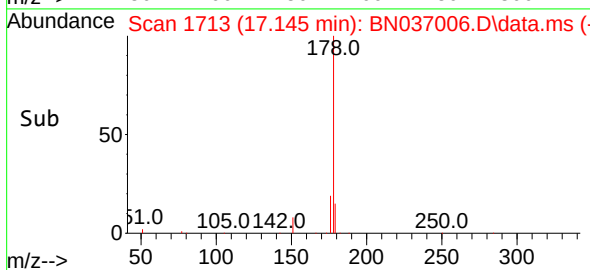
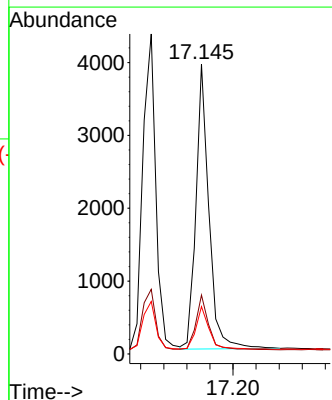
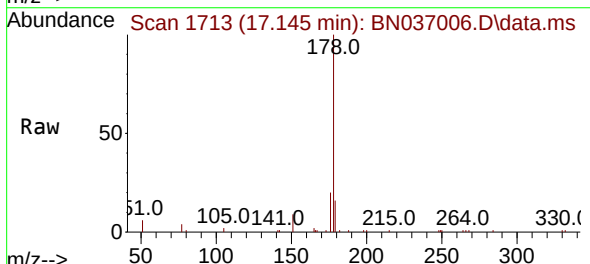
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

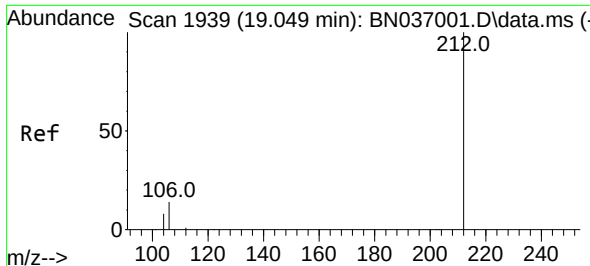
Tgt Ion:	178	Resp:	6852
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.7	23.5
179	15.6	12.2	18.2



#26
Anthracene
Concen: 0.384 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:	178	Resp:	6126
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.0	22.6
179	15.1	12.3	18.5

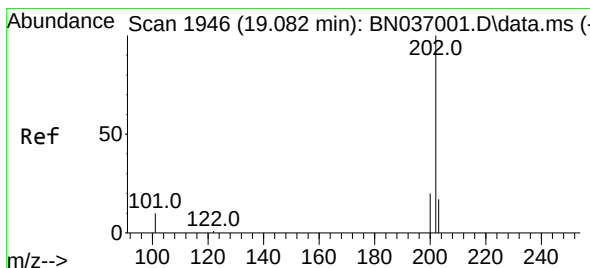
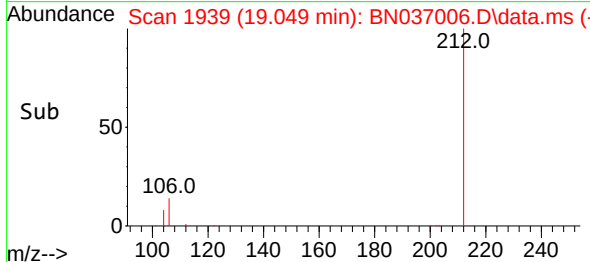
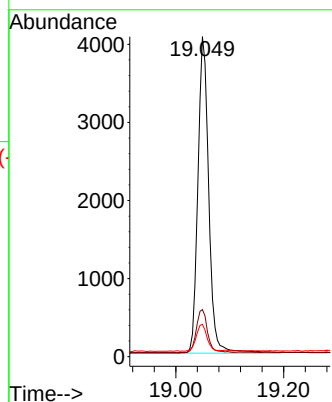
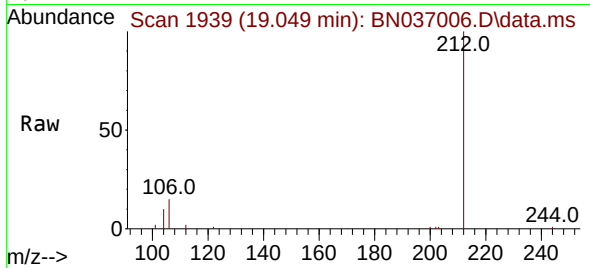




#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

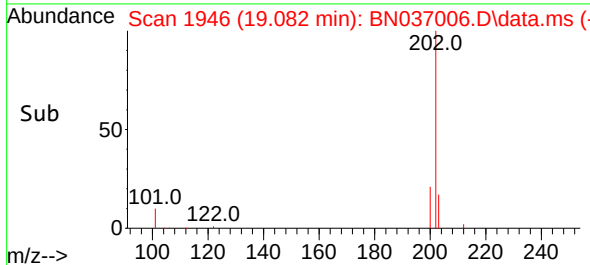
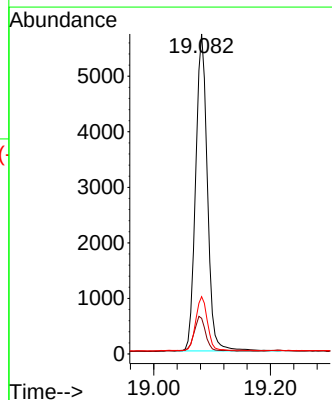
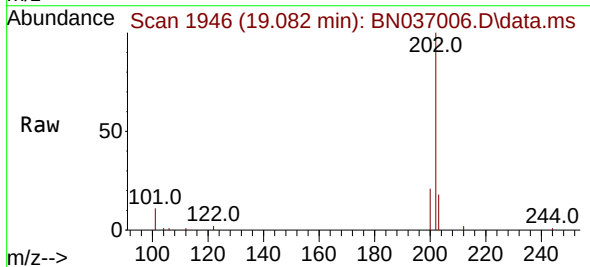
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

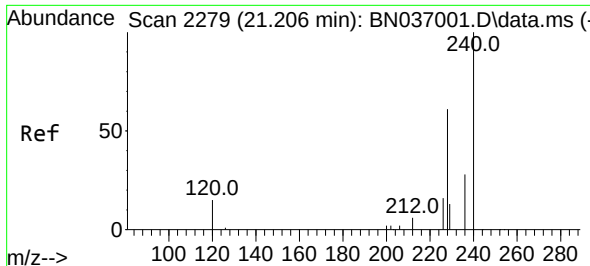
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.3	16.9
104	8.5	6.7	10.1



#28
Fluoranthene
Concen: 0.380 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	8.9	13.3
203	16.9	13.8	20.8

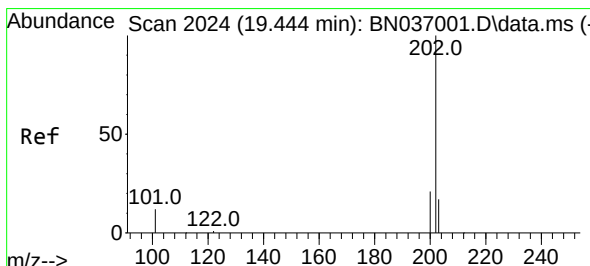
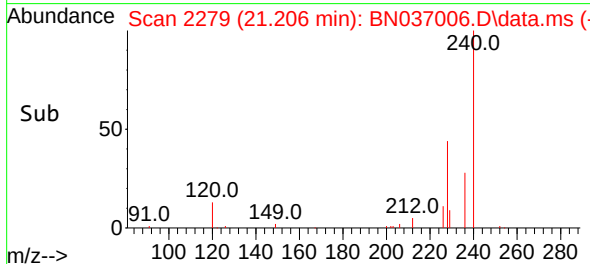
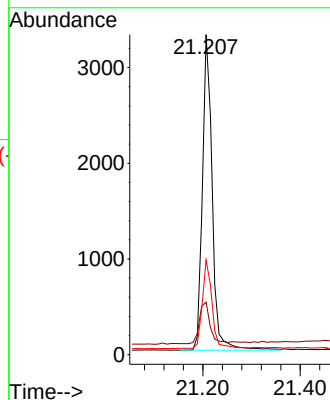
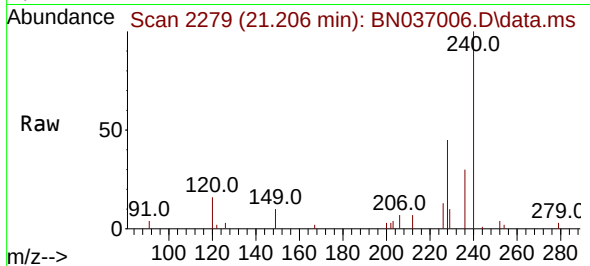




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

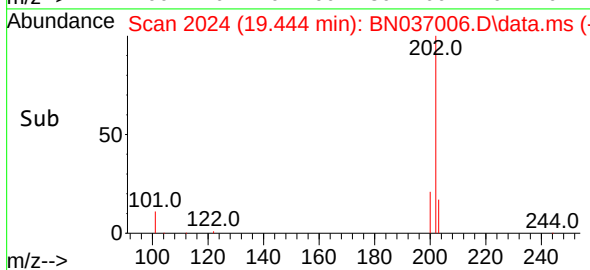
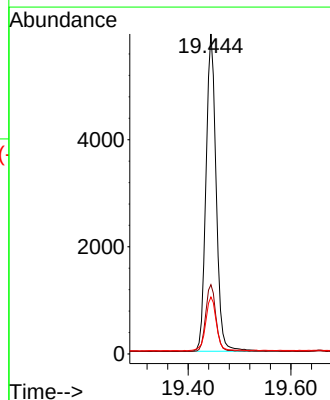
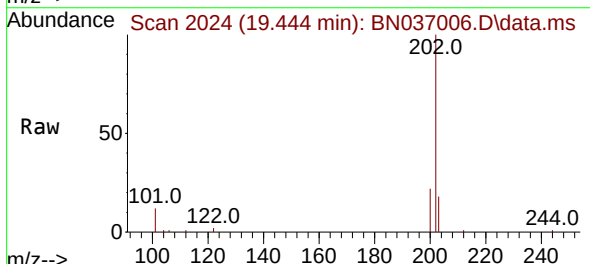
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

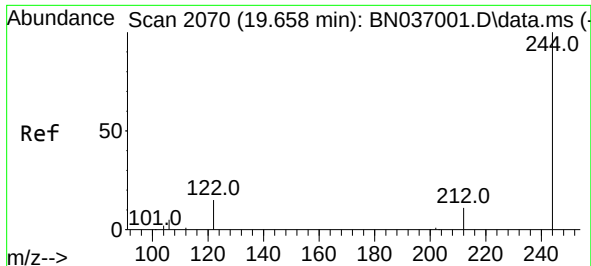
Tgt Ion:240 Resp: 4597
Ion Ratio Lower Upper
240 100
120 16.4 15.1 22.7
236 29.6 24.0 36.0



#30
Pyrene
Concen: 0.412 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:202 Resp: 8093
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 17.7 14.2 21.4

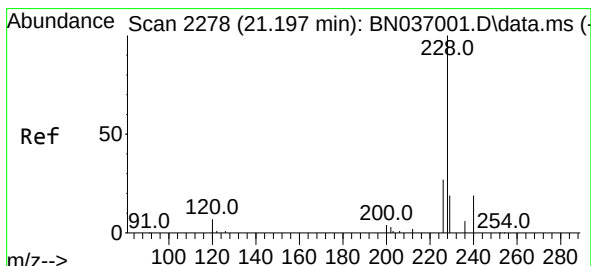
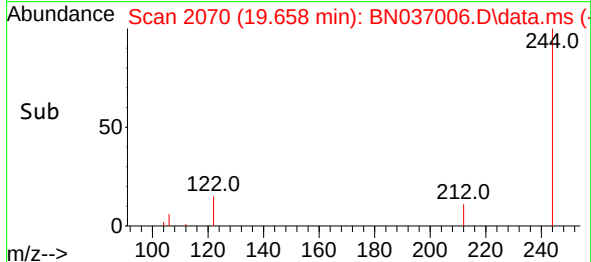
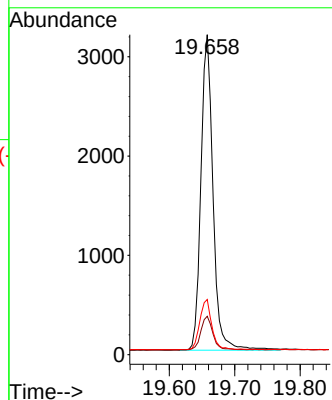
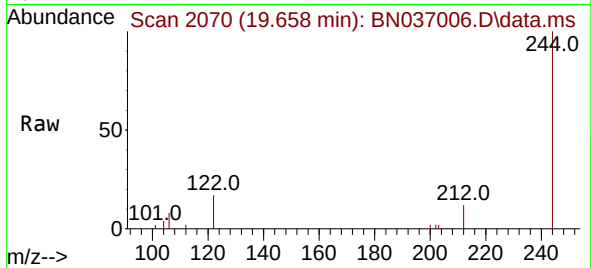




#31
 Terphenyl-d14
 Concen: 0.415 ng
 RT: 19.658 min Scan# 2070
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

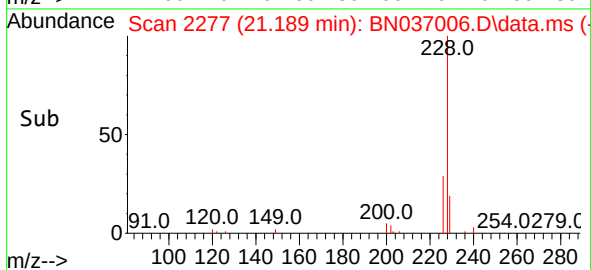
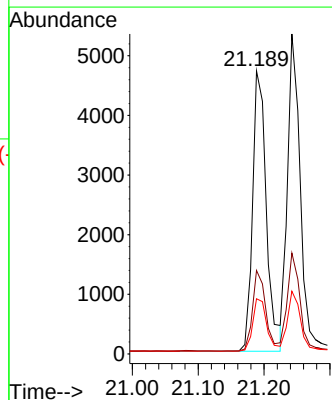
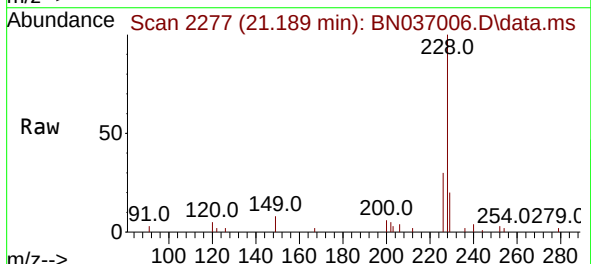
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

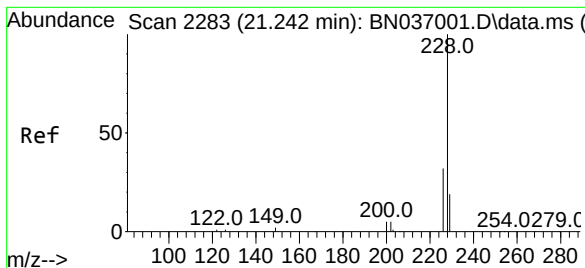
Tgt Ion:244 Resp: 4080
 Ion Ratio Lower Upper
 244 100
 212 12.0 9.7 14.5
 122 17.2 13.4 20.0



#32
 Benzo(a)anthracene
 Concen: 0.394 ng
 RT: 21.189 min Scan# 2277
 Delta R.T. -0.009 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion:228 Resp: 6824
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.2 33.4
 229 19.5 16.0 24.0





#33

Chrysene

Concen: 0.399 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA_N

ClientSampleId :

ICVBN051424

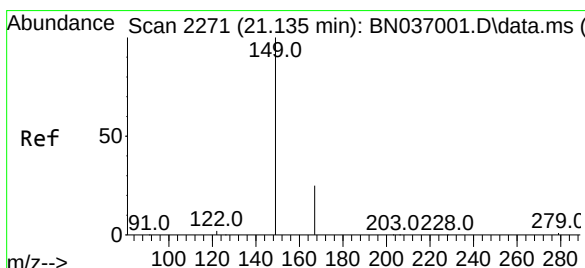
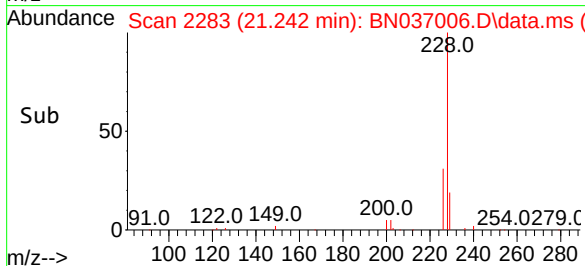
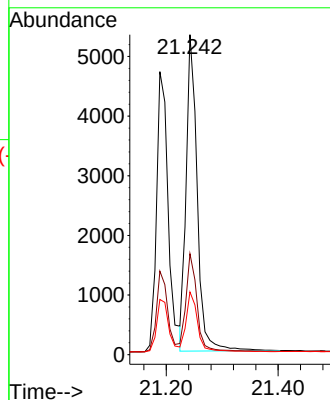
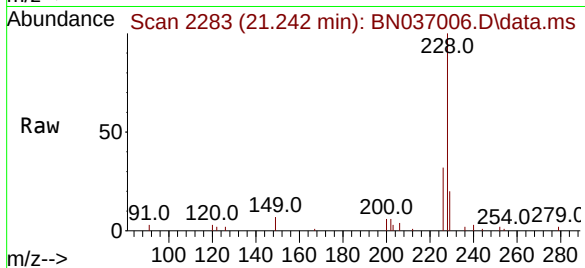
Tgt Ion:228 Resp: 7298

Ion Ratio Lower Upper

228 100

226 31.6 26.3 39.5

229 19.6 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.387 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

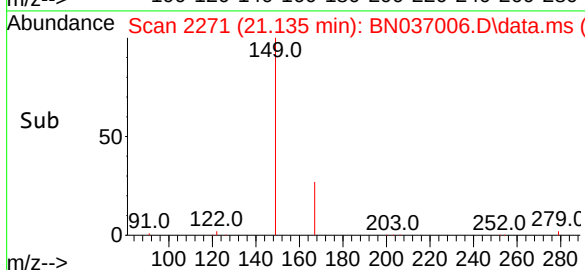
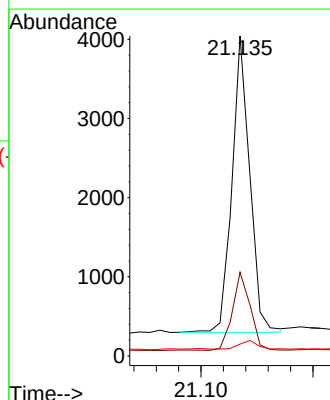
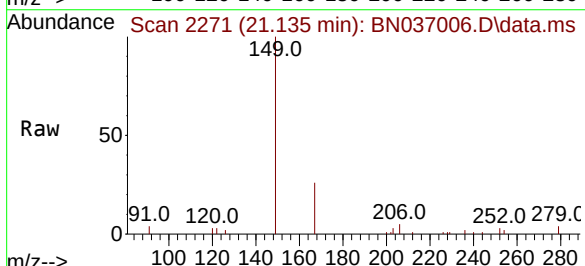
Tgt Ion:149 Resp: 4120

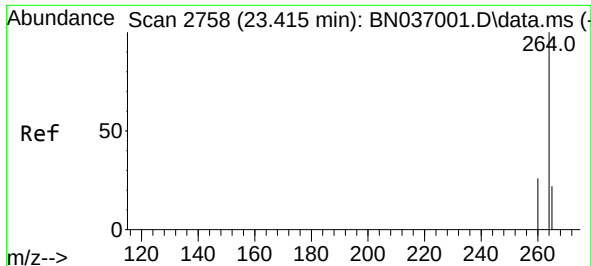
Ion Ratio Lower Upper

149 100

167 26.1 20.6 30.8

279 2.9 2.6 3.8

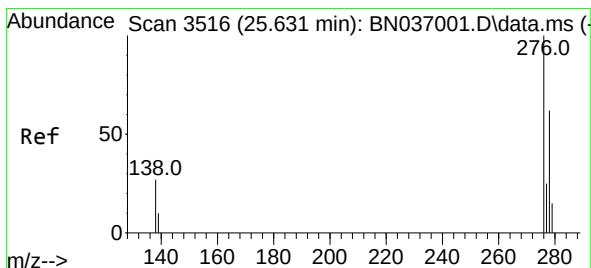
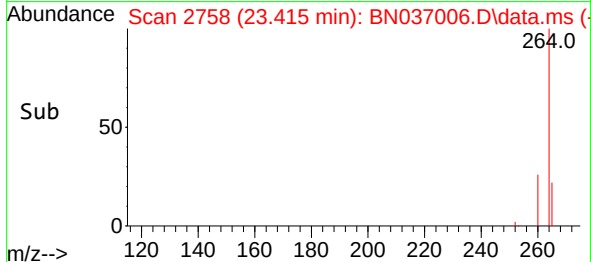
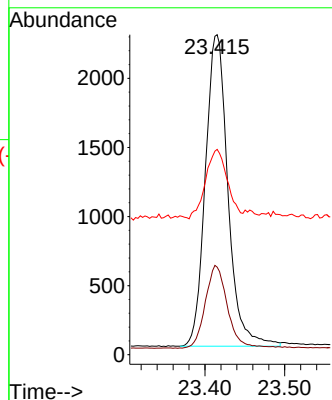
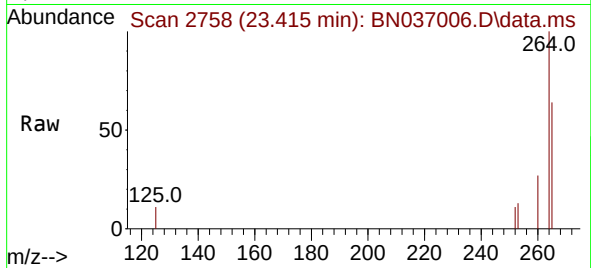




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

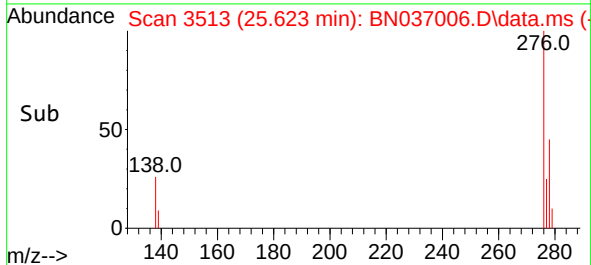
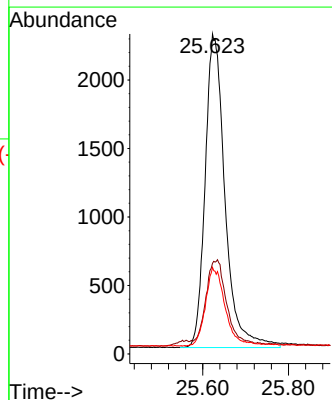
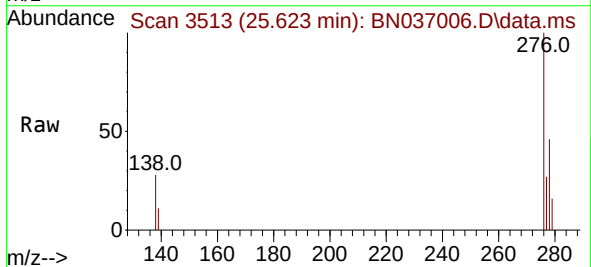
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

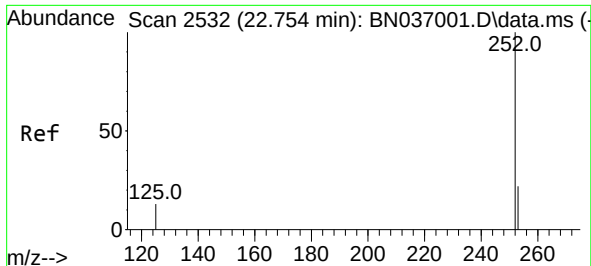
Tgt Ion:264 Resp: 4432
Ion Ratio Lower Upper
264 100
260 27.4 21.9 32.9
265 64.2 51.6 77.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 25.623 min Scan# 3513
Delta R.T. -0.009 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:276 Resp: 7358
Ion Ratio Lower Upper
276 100
138 26.6 22.7 34.1
277 24.6 20.0 30.0

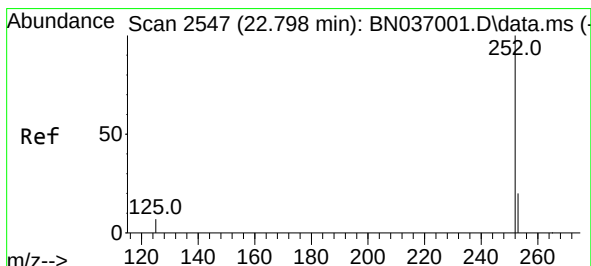
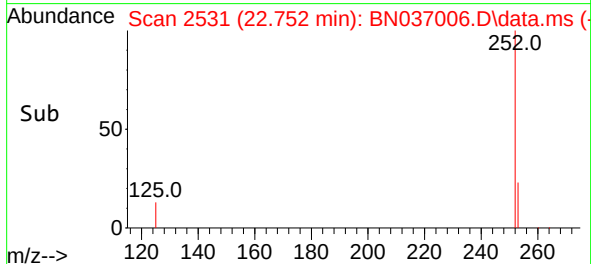
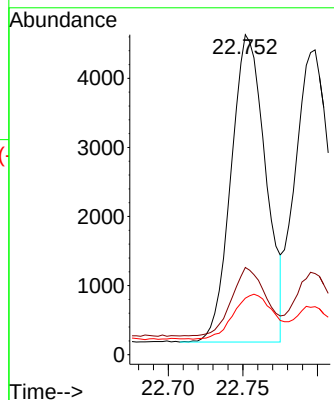
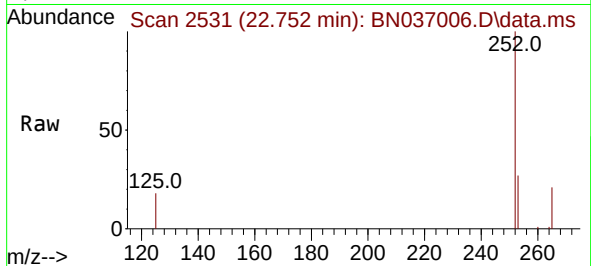




#37
Benzo(b)fluoranthene
Concen: 0.391 ng
RT: 22.752 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

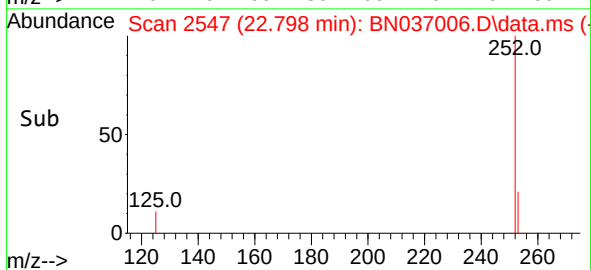
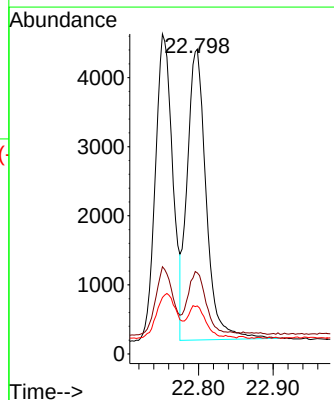
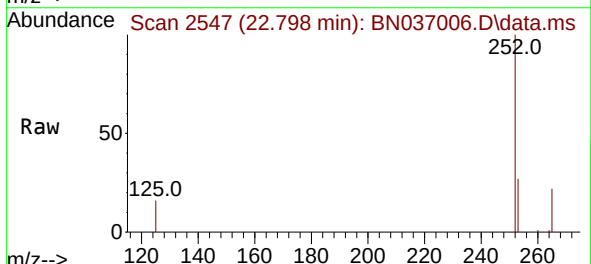
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

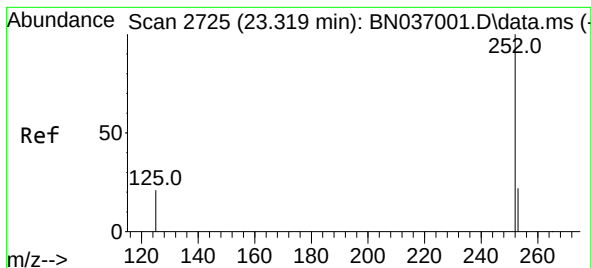
Tgt Ion:252 Resp: 7184
Ion Ratio Lower Upper
252 100
253 27.3 21.8 32.6
125 17.7 14.6 21.8



#38
Benzo(k)fluoranthene
Concen: 0.410 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:252 Resp: 7438
Ion Ratio Lower Upper
252 100
253 26.6 21.4 32.2
125 15.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.395 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

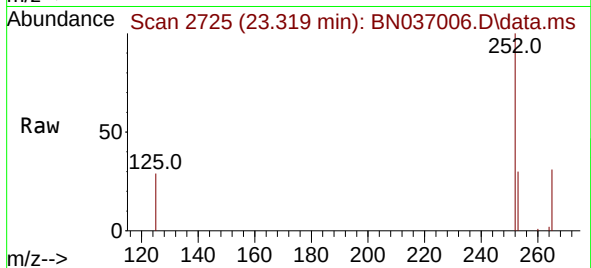
Acq: 13 May 2025 22:29

Instrument :

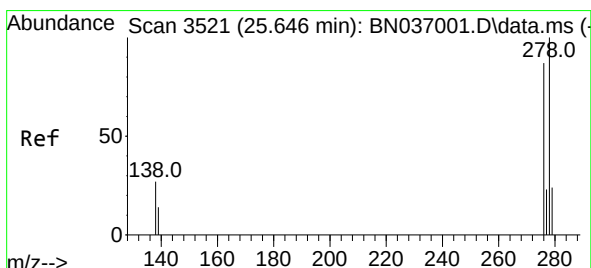
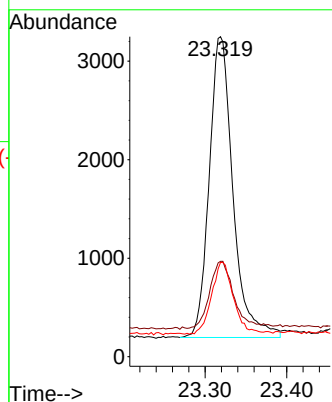
BNA_N

ClientSampleId :

ICVBN051424



Tgt Ion:	252	Resp:	6167
Ion	Ratio	Lower	Upper
252	100		
253	29.8	23.8	35.6
125	29.5	21.8	32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.399 ng

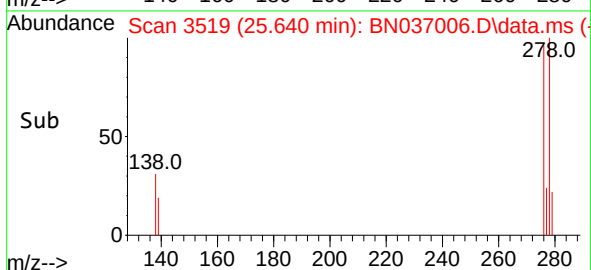
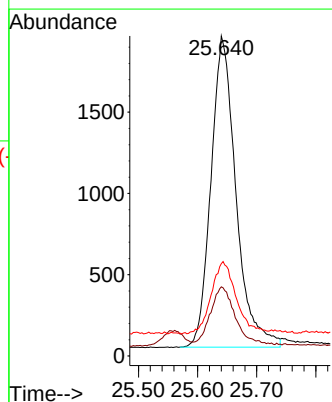
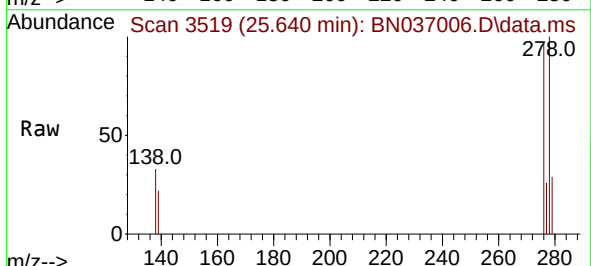
RT: 25.640 min Scan# 3519

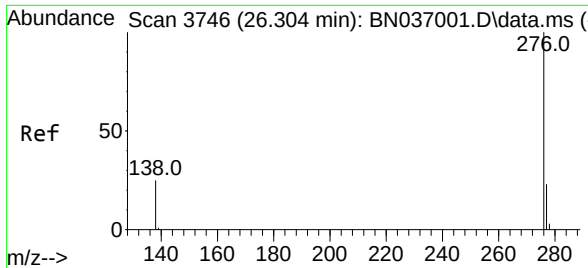
Delta R.T. -0.006 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

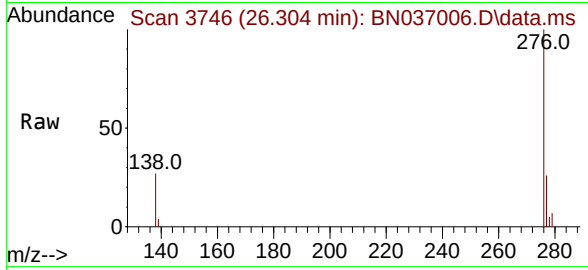
Tgt Ion:	278	Resp:	5621
Ion	Ratio	Lower	Upper
278	100		
139	21.6	17.4	26.0
279	28.8	24.6	37.0



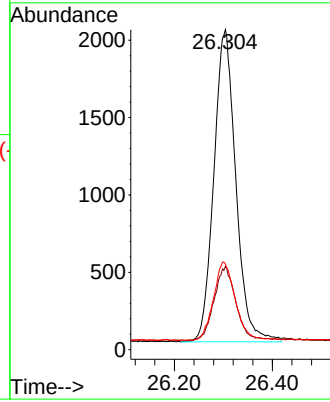
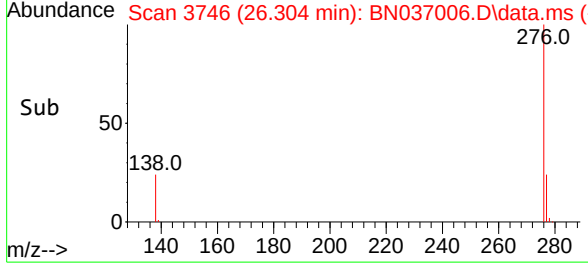


#41
 Benzo(g,h,i)perylene
 Concen: 0.409 ng
 RT: 26.304 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424



Tgt Ion:	276	Resp:	6268
Ion Ratio	Lower	Upper	
276	100		
277	26.1	20.2	30.4
138	26.7	22.0	33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	100	0.00
2	1,4-Dioxane	0.491	0.499	-1.6	98	0.00
3	n-Nitrosodimethylamine	1.054	1.029	2.4	105	0.00
4 S	2-Fluorophenol	1.048	1.109	-5.8	98	0.00
5 S	Phenol-d6	1.311	1.338	-2.1	97	0.00
6	bis(2-Chloroethyl)ether	1.207	1.157	4.1	101	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8 S	Nitrobenzene-d5	0.436	0.413	5.3	105	0.00
9	Naphthalene	1.182	1.150	2.7	102	0.00
10	Hexachlorobutadiene	0.248	0.246	0.8	103	-0.01
11 SURR	2-Methylnaphthalene-d10	0.563	0.566	-0.5	104	0.00
12	2-Methylnaphthalene	0.760	0.753	0.9	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.176	0.174	1.1	104	0.00
15 S	2-Fluorobiphenyl	1.832	1.858	-1.4	104	0.00
16	Acenaphthylene	1.947	1.845	5.2	103	0.00
17	Acenaphthene	1.272	1.232	3.1	105	0.00
18	Fluorene	1.669	1.617	3.1	105	0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.090	0.077	14.4	112	0.00
21	4-Bromophenyl-phenylether	0.253	0.247	2.4	106	0.00
22	Hexachlorobenzene	0.270	0.278	-3.0	106	0.00
23	Atrazine	0.220	0.209	5.0	106	0.00
24	Pentachlorophenol	0.149	0.125	16.1	95	0.00
25	Phenanthrene	1.307	1.279	2.1	106	0.00
26	Anthracene	1.190	1.143	3.9	105	0.00
27 SURR	Fluoranthene-d10	1.097	1.054	3.9	105	0.00
28	Fluoranthene	1.562	1.482	5.1	106	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	1.711	1.760	-2.9	105	0.00
31 S	Terphenyl-d14	0.856	0.888	-3.7	105	0.00
32	Benzo(a)anthracene	1.506	1.484	1.5	103	0.00
33	Chrysene	1.593	1.588	0.3	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.927	0.896	3.3	102	0.00
35 I	Perylene-d12	1.000	1.000	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.660	-1.6	99	0.00
37	Benzo(b)fluoranthene	1.659	1.621	2.3	99	0.00
38	Benzo(k)fluoranthene	1.639	1.678	-2.4	100	0.00
39 C	Benzo(a)pyrene	1.407	1.391	1.1	99	0.00
40	Dibenzo(a,h)anthracene	1.272	1.268	0.3	98	0.00
41	Benzo(g,h,i)perylene	1.383	1.414	-2.2	97	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	100	0.00
2	1,4-Dioxane	0.400	0.407	-1.7	98	0.00
3	n-Nitrosodimethylamine	0.400	0.390	2.5	105	0.00
4 S	2-Fluorophenol	0.400	0.423	-5.7	98	0.00
5 S	Phenol-d6	0.400	0.408	-2.0	97	0.00
6	bis(2-Chloroethyl)ether	0.400	0.383	4.3	101	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8 S	Nitrobenzene-d5	0.400	0.379	5.3	105	0.00
9	Naphthalene	0.400	0.389	2.8	102	0.00
10	Hexachlorobutadiene	0.400	0.397	0.8	103	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.402	-0.5	104	0.00
12	2-Methylnaphthalene	0.400	0.396	1.0	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.400	0.397	0.8	104	0.00
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	104	0.00
16	Acenaphthylene	0.400	0.379	5.3	103	0.00
17	Acenaphthene	0.400	0.387	3.3	105	0.00
18	Fluorene	0.400	0.388	3.0	105	0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.396	1.0	112	0.00
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	106	0.00
22	Hexachlorobenzene	0.400	0.411	-2.7	106	0.00
23	Atrazine	0.400	0.379	5.3	106	0.00
24	Pentachlorophenol	0.400	0.336	16.0	95	0.00
25	Phenanthrene	0.400	0.391	2.3	106	0.00
26	Anthracene	0.400	0.384	4.0	105	0.00
27 SURR	Fluoranthene-d10	0.400	0.384	4.0	105	0.00
28	Fluoranthene	0.400	0.380	5.0	106	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.412	-3.0	105	0.00
31 S	Terphenyl-d14	0.400	0.415	-3.7	105	0.00
32	Benzo(a)anthracene	0.400	0.394	1.5	103	0.00
33	Chrysene	0.400	0.399	0.3	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.387	3.3	102	0.00
35 I	Perylene-d12	0.400	0.400	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.407	-1.7	99	0.00
37	Benzo(b)fluoranthene	0.400	0.391	2.3	99	0.00
38	Benzo(k)fluoranthene	0.400	0.410	-2.5	100	0.00
39 C	Benzo(a)pyrene	0.400	0.395	1.3	99	0.00
40	Dibenzo(a,h)anthracene	0.400	0.399	0.3	98	0.00
41	Benzo(g,h,i)perylene	0.400	0.409	-2.2	97	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2063 SAS No.: Q2063 SDG No.: Q2063

Instrument ID: BNA_N Calibration Date/Time: 05/20/2025 15:09

Lab File ID: BN037074.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.573		1.8	20.0
Fluoranthene-d10	1.097	1.010		-7.9	20.0
2-Fluorophenol	1.048	0.964		-8.0	20.0
Phenol-d6	1.311	1.198		-8.6	20.0
Nitrobenzene-d5	0.436	0.402		-7.8	20.0
2-Fluorobiphenyl	1.832	1.798		-1.9	20.0
2,4,6-Tribromophenol	0.176	0.153		-13.1	20.0
Terphenyl-d14	0.856	0.940		9.8	20.0
1,4-Dioxane	0.491	0.488		-0.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
 Data File : BN037074.D
 Acq On : 20 May 2025 15:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: May 21 01:37:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

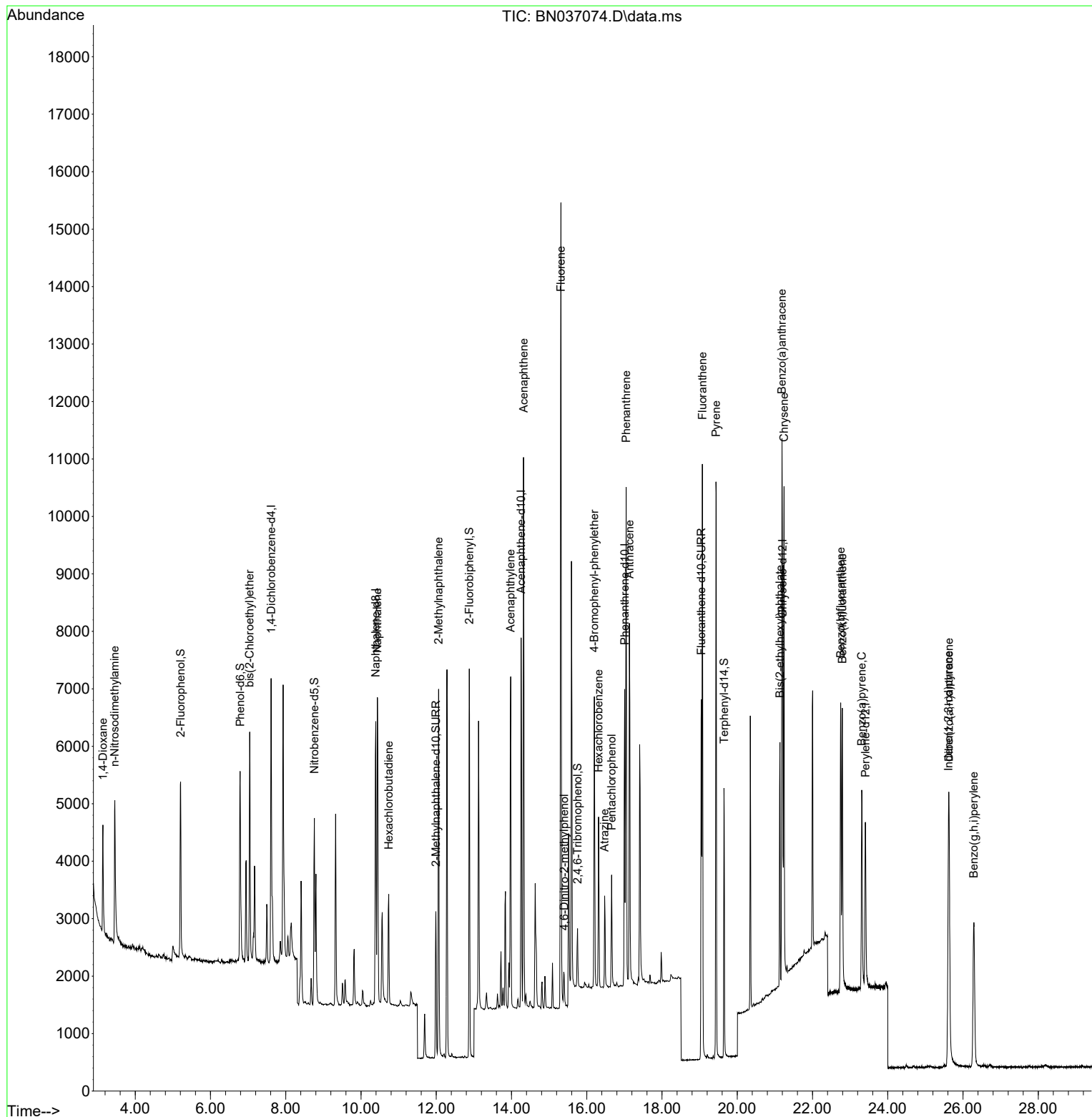
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2240	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	6230	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	3461	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	6762	0.400	ng	# 0.00
29) Chrysene-d12	21.207	240	4645	0.400	ng	# 0.00
35) Perylene-d12	23.407	264	3820	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	2159	0.368	ng	0.00
5) Phenol-d6	6.788	99	2684	0.366	ng	0.00
8) Nitrobenzene-d5	8.760	82	2503	0.369	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	3567	0.407	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	530	0.349	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	6223	0.393	ng	0.00
27) Fluoranthene-d10	19.045	212	6828	0.368	ng	0.00
31) Terphenyl-d14	19.649	244	4368	0.440	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.141	88	1094	0.398	ng	95
3) n-Nitrosodimethylamine	3.451	42	2265	0.384	ng	# 95
6) bis(2-Chloroethyl)ether	7.041	93	2668	0.395	ng	98
9) Naphthalene	10.436	128	6861	0.373	ng	98
10) Hexachlorobutadiene	10.735	225	1499	0.388	ng	# 100
12) 2-Methylnaphthalene	12.062	142	4468	0.377	ng	99
16) Acenaphthylene	13.978	152	6352	0.377	ng	99
17) Acenaphthene	14.320	154	4188	0.380	ng	99
18) Fluorene	15.314	166	5511	0.382	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	447	0.347	ng	92
21) 4-Bromophenyl-phenylether	16.202	248	1675	0.392	ng	# 87
22) Hexachlorobenzene	16.314	284	1839	0.402	ng	98
23) Atrazine	16.475	200	1307	0.351	ng	95
24) Pentachlorophenol	16.661	266	889	0.353	ng	97
25) Phenanthrene	17.046	178	8237	0.373	ng	100
26) Anthracene	17.133	178	7244	0.360	ng	100
28) Fluoranthene	19.073	202	8992	0.341	ng	99
30) Pyrene	19.435	202	8904	0.448	ng	100
32) Benzo(a)anthracene	21.189	228	6527	0.373	ng	100
33) Chrysene	21.242	228	7006	0.379	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	3857	0.358	ng	98
36) Indeno(1,2,3-cd)pyrene	25.614	276	5928	0.380	ng	99
37) Benzo(b)fluoranthene	22.749	252	6059	0.382	ng	99
38) Benzo(k)fluoranthene	22.793	252	6318	0.404	ng	99
39) Benzo(a)pyrene	23.310	252	5011	0.373	ng	# 95
40) Dibenzo(a,h)anthracene	25.629	278	4518	0.372	ng	100
41) Benzo(g,h,i)perylene	26.289	276	5160	0.391	ng	98

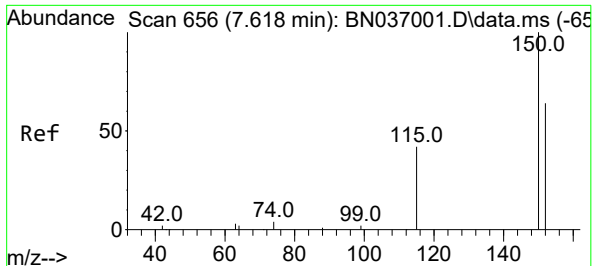
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037074.D
Acq On : 20 May 2025 15:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: May 21 01:37:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

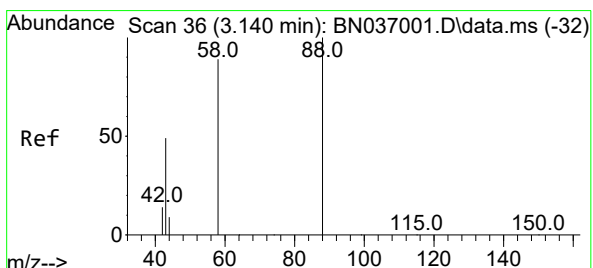
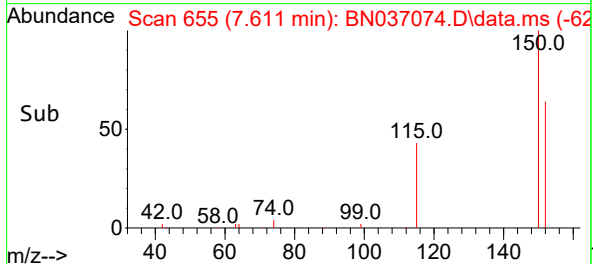
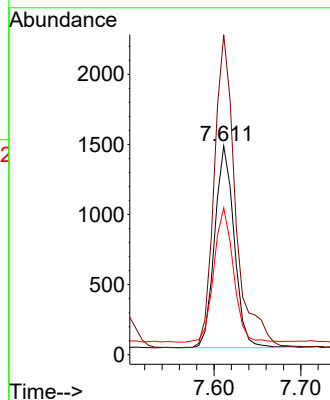
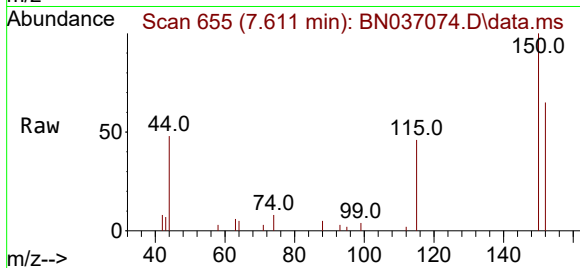




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

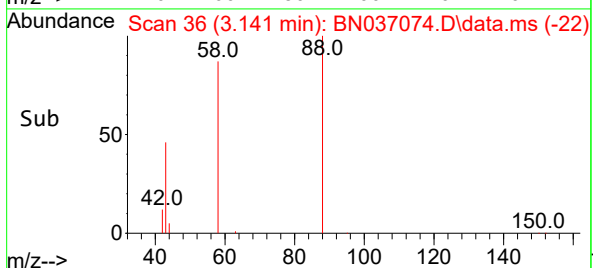
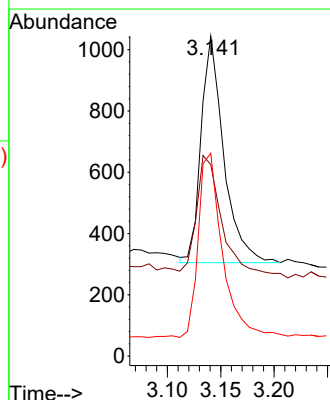
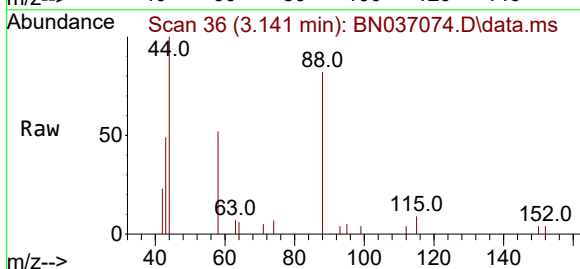
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 2240
Ion Ratio Lower Upper
152 100
150 153.3 123.9 185.9
115 70.3 55.8 83.8

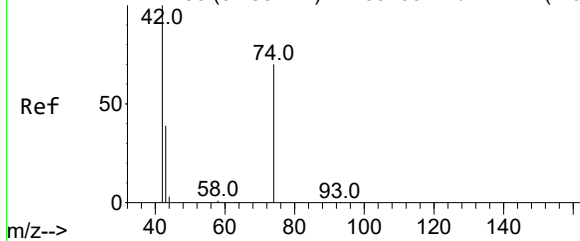


#2
1,4-Dioxane
Concen: 0.398 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion: 88 Resp: 1094
Ion Ratio Lower Upper
88 100
43 55.1 37.4 56.0
58 87.4 68.8 103.2



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.384 ng

RT: 3.451 min Scan# 79

Delta R.T. -0.007 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

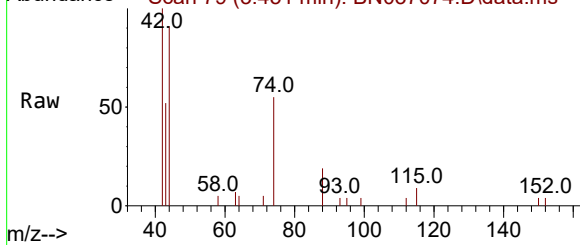
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Abundance Scan 79 (3.451 min): BN037074.D\data.ms



Tgt Ion: 42 Resp: 2265

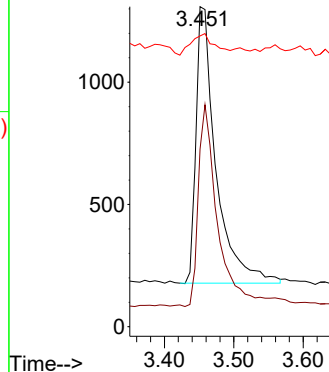
Ion Ratio Lower Upper

42 100

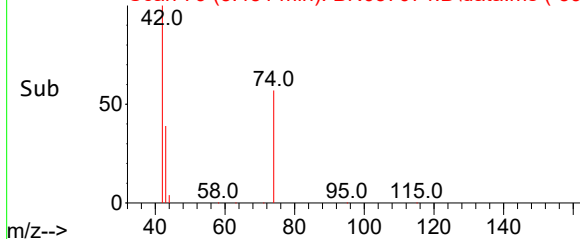
74 71.8 59.8 89.6

44 9.0 11.9 17.9#

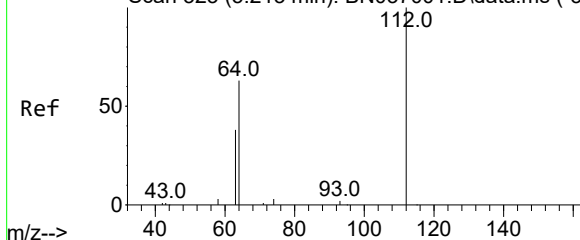
Abundance



Abundance Scan 79 (3.451 min): BN037074.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.368 ng

RT: 5.206 min Scan# 322

Delta R.T. -0.007 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

Tgt Ion: 112 Resp: 2159

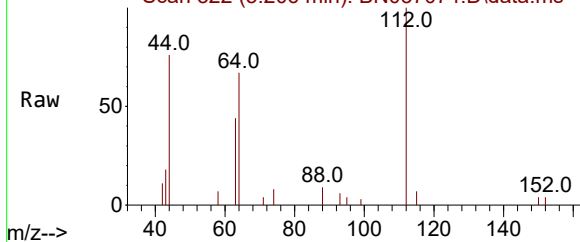
Ion Ratio Lower Upper

112 100

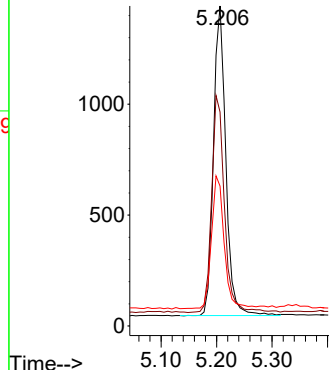
64 72.9 55.7 83.5

63 43.9 34.6 51.8

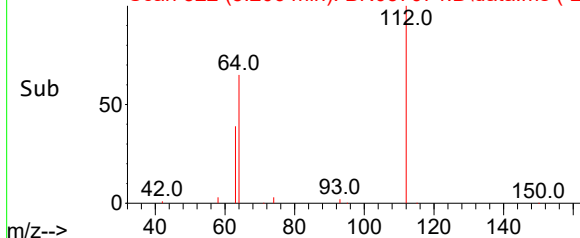
Abundance Scan 322 (5.206 min): BN037074.D\data.ms

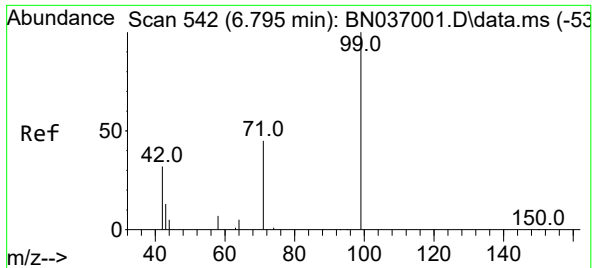


Abundance



Abundance Scan 322 (5.206 min): BN037074.D\data.ms (-29)

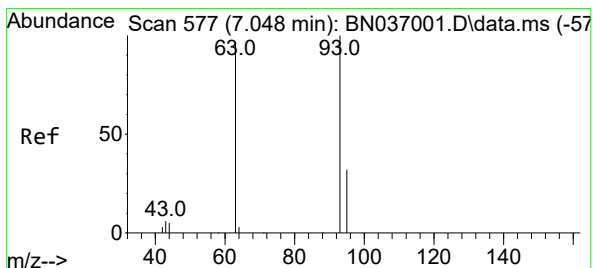
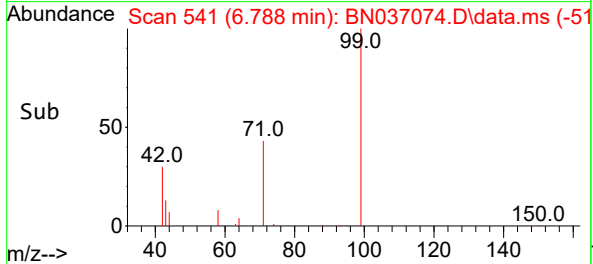
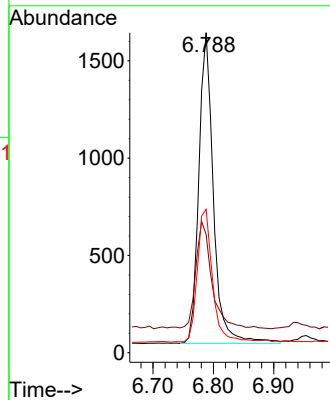
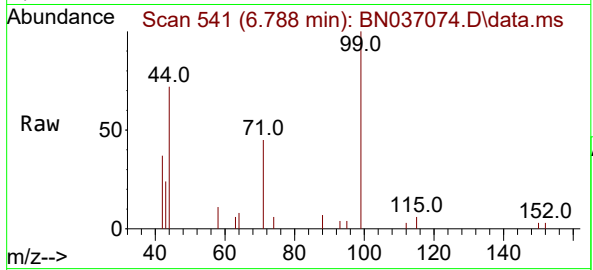




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.788 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

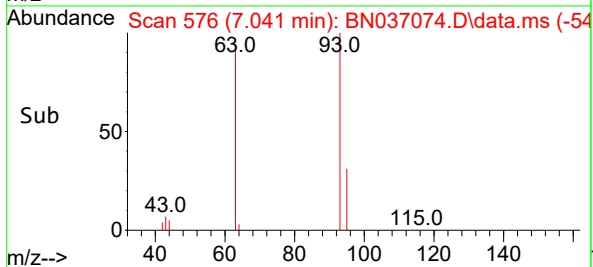
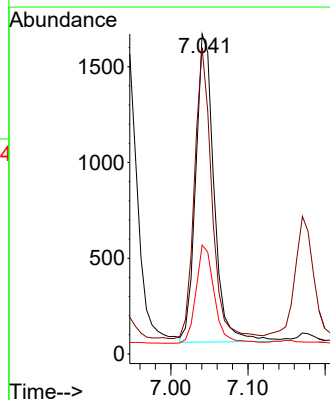
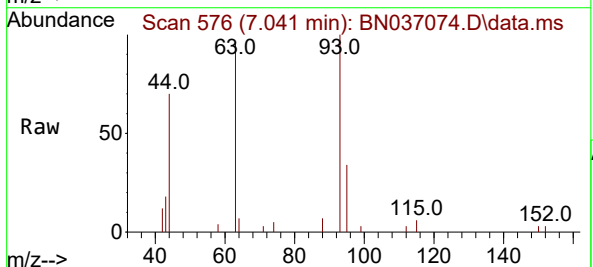
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

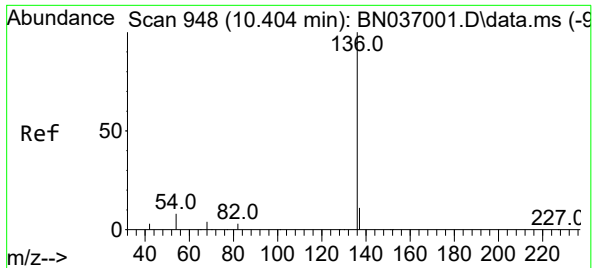
Tgt Ion: 99 Resp: 2684
Ion Ratio Lower Upper
99 100
42 37.7 29.3 43.9
71 44.2 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.395 ng
RT: 7.041 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion: 93 Resp: 2668
Ion Ratio Lower Upper
93 100
63 89.2 70.1 105.1
95 31.7 26.2 39.2

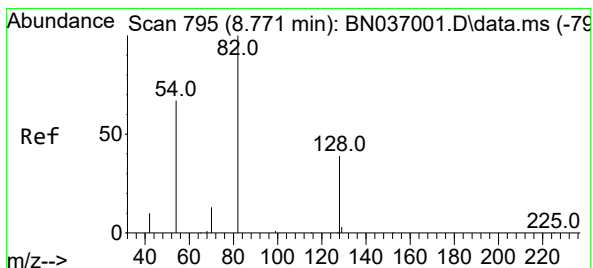
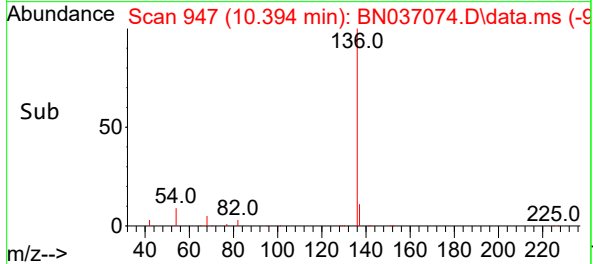
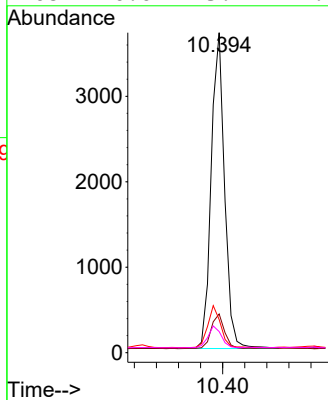
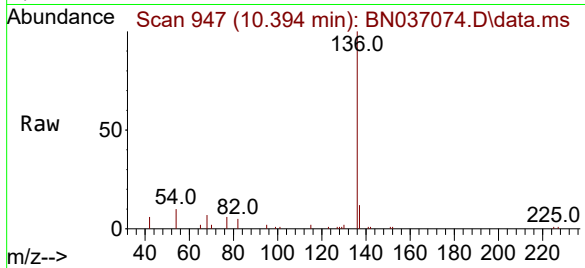




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.010 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

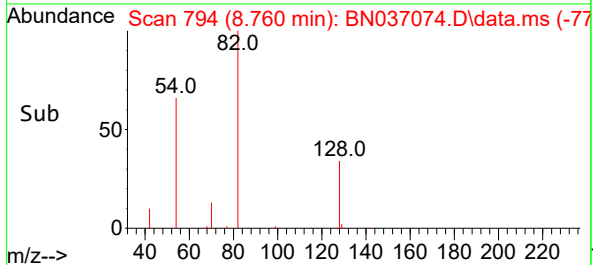
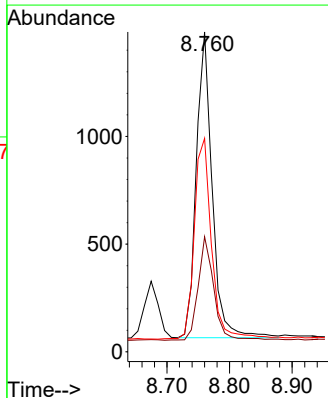
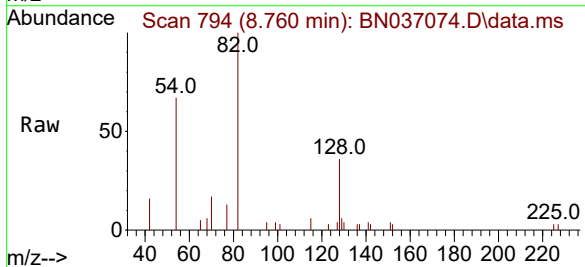
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

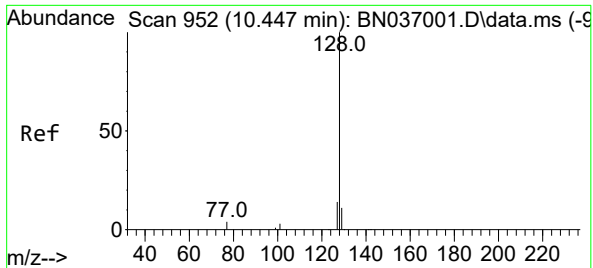
Tgt Ion:	136	Resp:	6230
Ion	Ratio	Lower	Upper
136	100		
137	12.1	10.4	15.6
54	10.4	8.5	12.7
68	6.6	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.010 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:	82	Resp:	2503
Ion	Ratio	Lower	Upper
82	100		
128	36.0	34.0	51.0
54	66.7	55.0	82.4

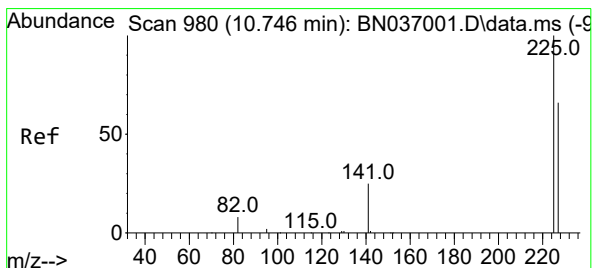
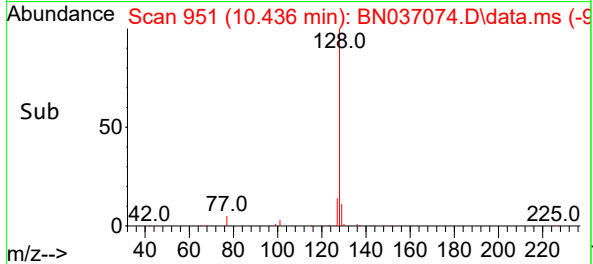
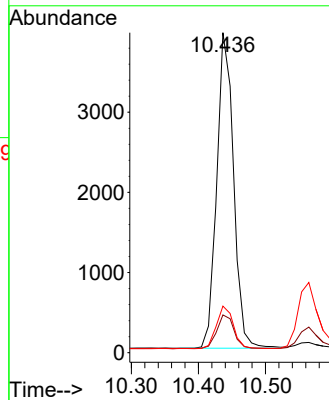
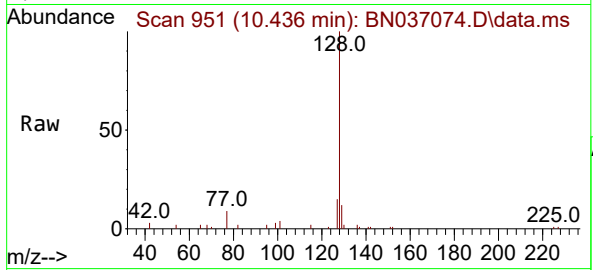




#9
Naphthalene
Concen: 0.373 ng
RT: 10.436 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

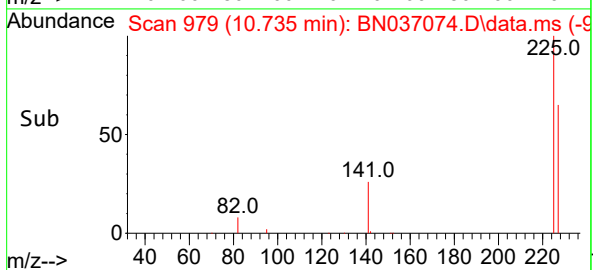
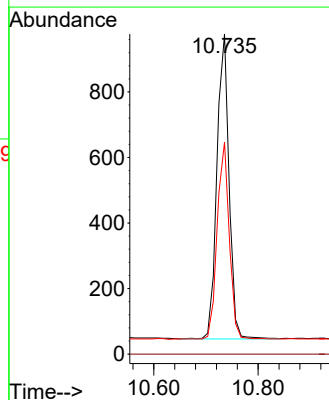
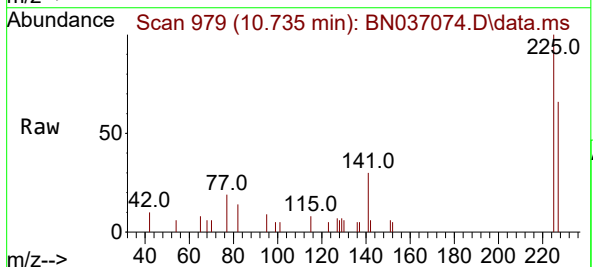
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

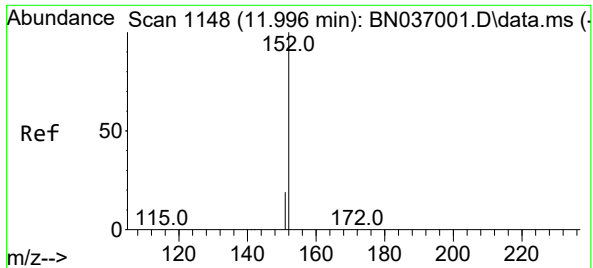
Tgt Ion:	128	Resp:	6861
Ion	Ratio	Lower	Upper
128	100		
129	11.8	9.7	14.5
127	14.6	12.4	18.6



#10
Hexachlorobutadiene
Concen: 0.388 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:	225	Resp:	1499
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.9	76.3

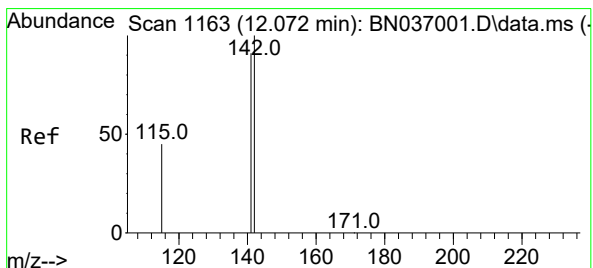
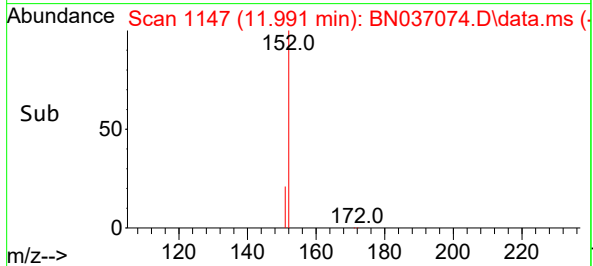
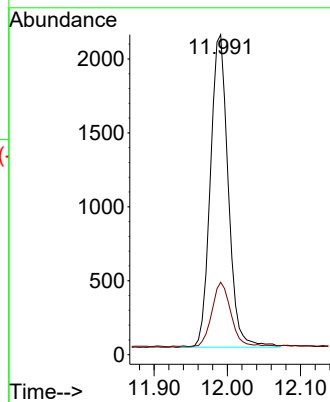
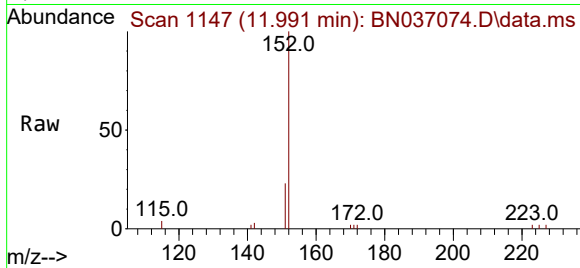




#11
2-Methylnaphthalene-d10
Concen: 0.407 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

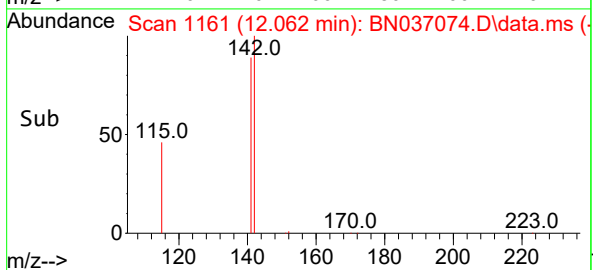
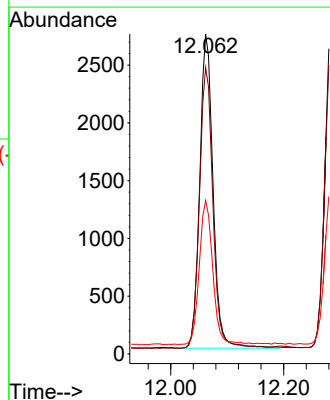
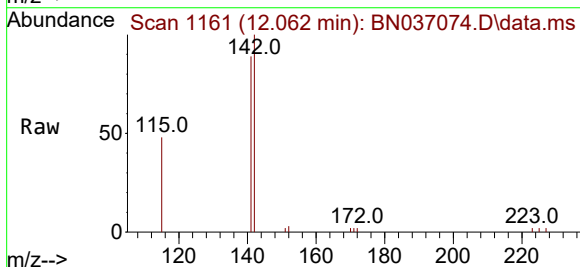
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

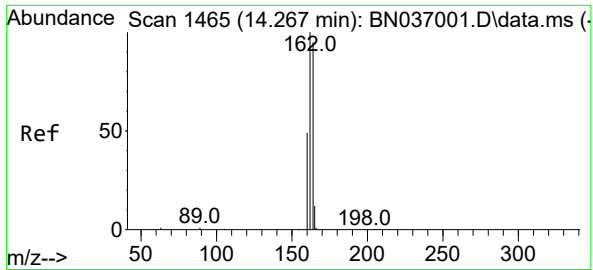
Tgt Ion:152 Resp: 3567
Ion Ratio Lower Upper
152 100
151 22.1 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.377 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:142 Resp: 4468
Ion Ratio Lower Upper
142 100
141 89.5 73.3 109.9
115 48.0 38.4 57.6

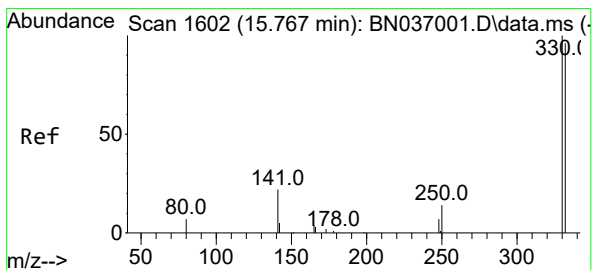
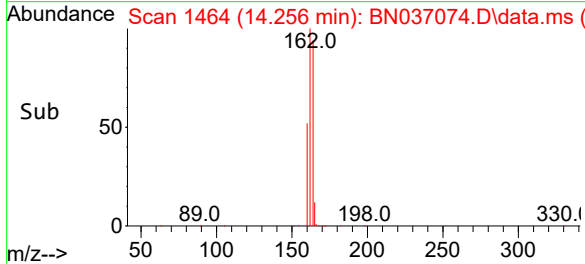
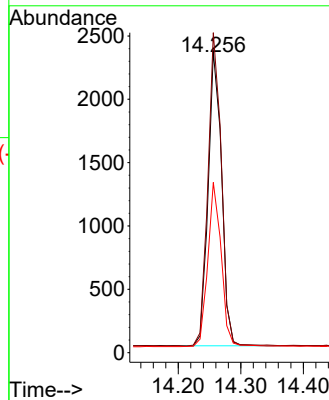
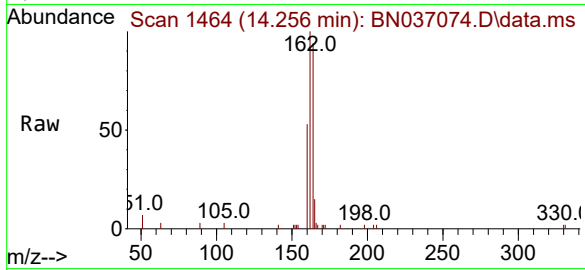




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

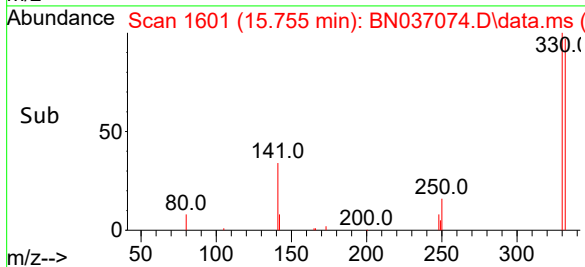
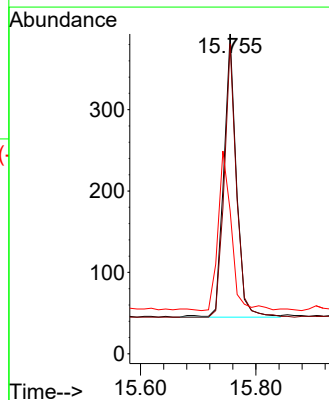
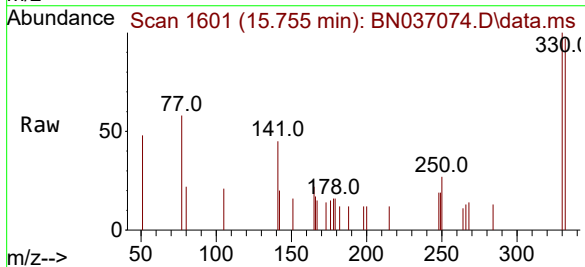
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

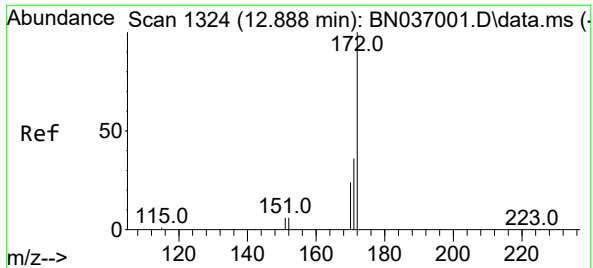
Tgt Ion:	164	Resp:	3461
Ion	Ratio	Lower	Upper
164	100		
162	106.4	84.2	126.4
160	56.6	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 0.349 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:	330	Resp:	530
Ion	Ratio	Lower	Upper
330	100		
332	93.6	73.8	110.8
141	59.8	43.9	65.9

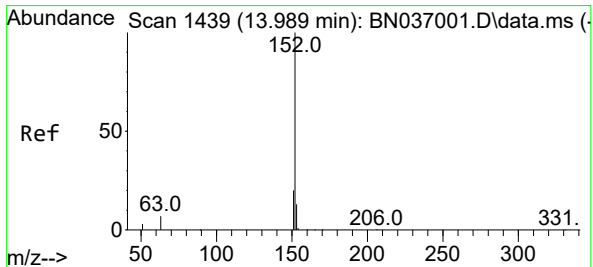
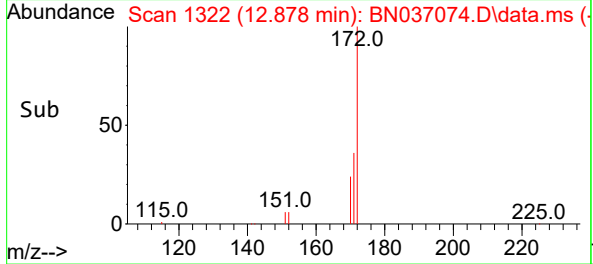
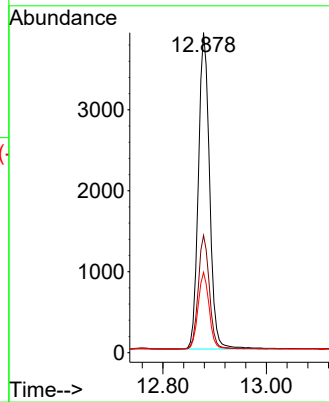
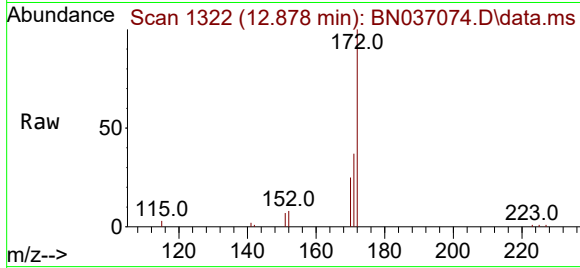




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.878 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

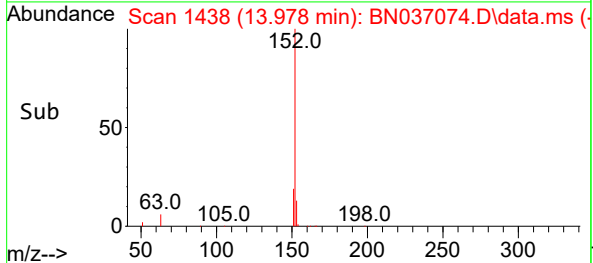
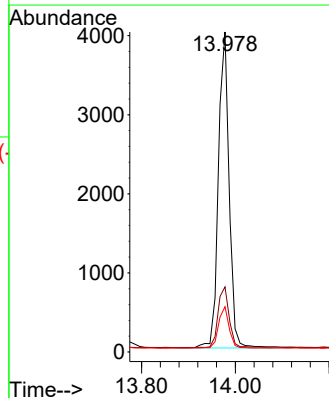
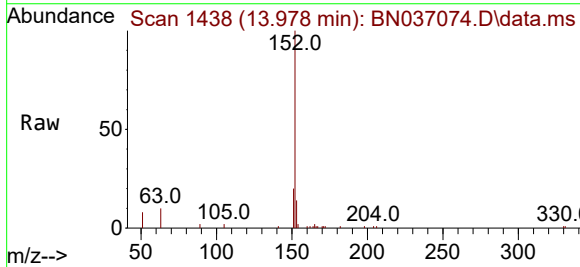
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

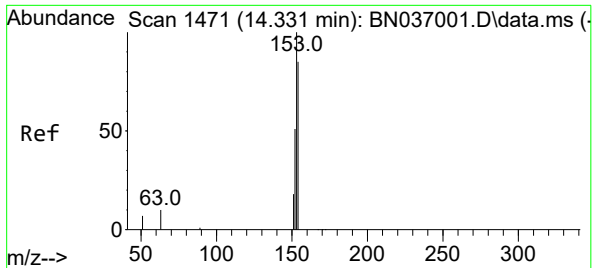
Tgt Ion:172	Resp:	6223
Ion	Ratio	Lower Upper
172	100	
171	36.6	29.2 43.8
170	25.1	20.5 30.7



#16
Acenaphthylene
Concen: 0.377 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:152	Resp:	6352
Ion	Ratio	Lower Upper
152	100	
151	19.8	16.1 24.1
153	12.7	10.5 15.7

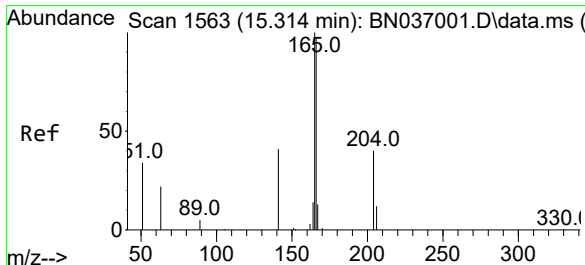
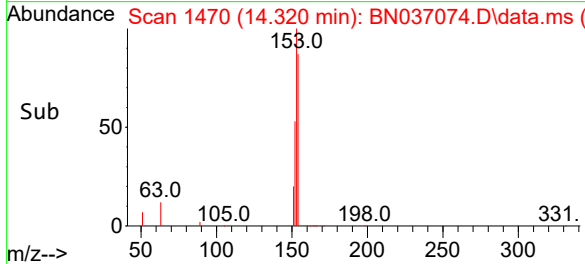
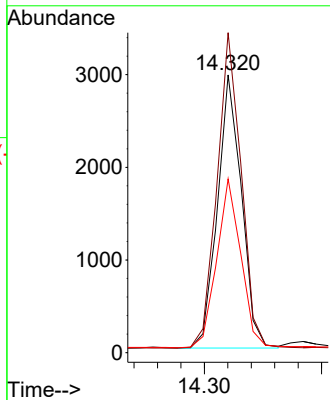
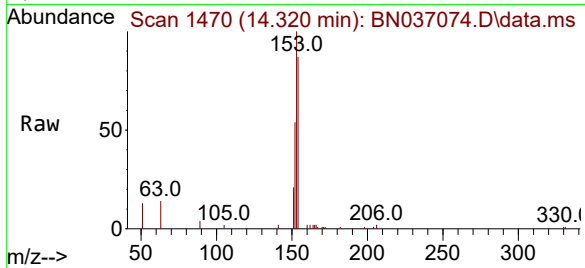




#17
Acenaphthene
Concen: 0.380 ng
RT: 14.320 min Scan# 1470
Delta R.T. -0.011 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

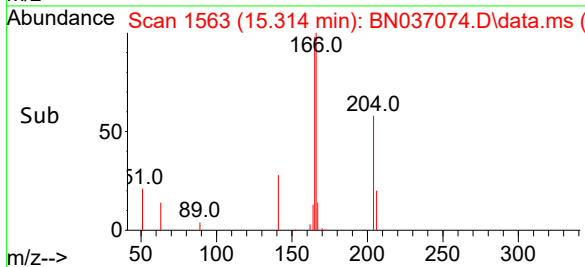
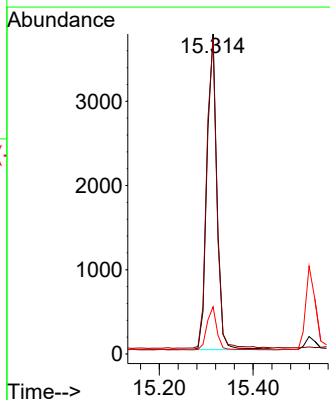
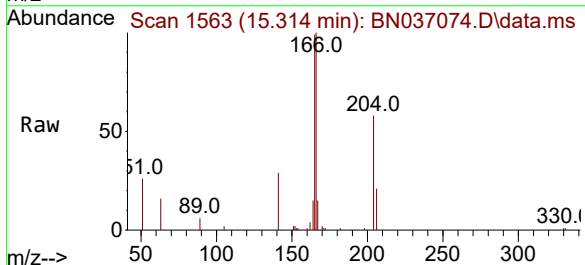
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

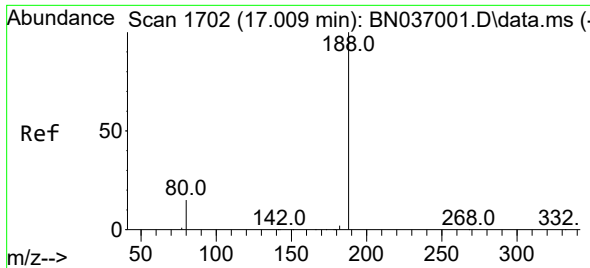
Tgt Ion:154 Resp: 4188
Ion Ratio Lower Upper
154 100
153 116.3 94.2 141.4
152 62.8 49.4 74.0



#18
Fluorene
Concen: 0.382 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:166 Resp: 5511
Ion Ratio Lower Upper
166 100
165 99.4 80.6 120.8
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

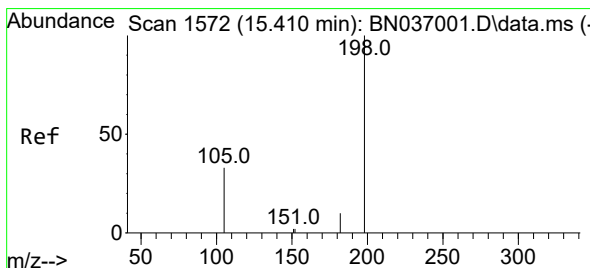
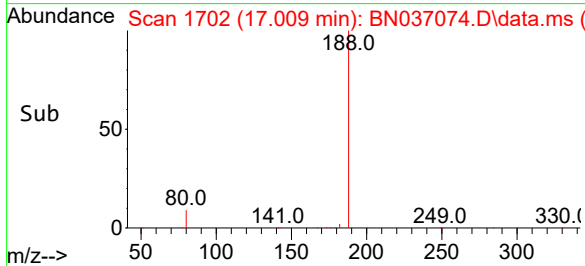
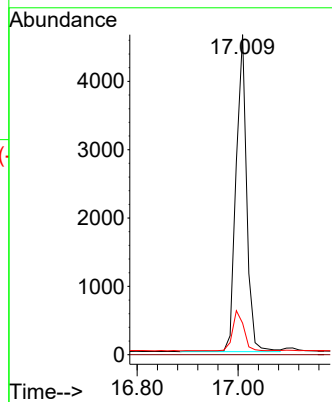
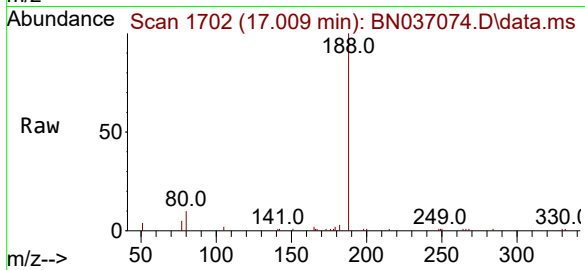
Tgt Ion:188 Resp: 6762

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.9 13.4 20.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.347 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

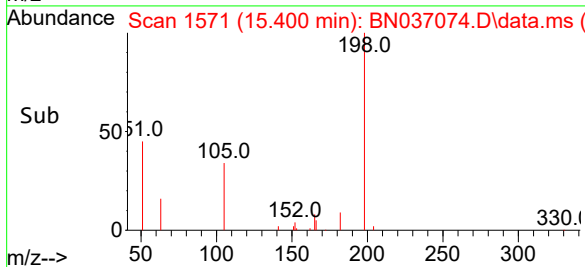
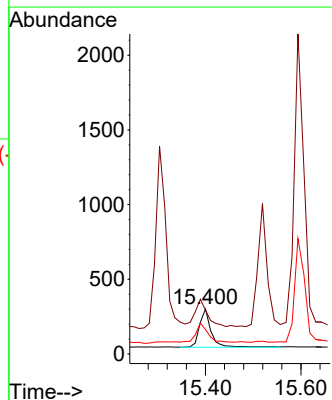
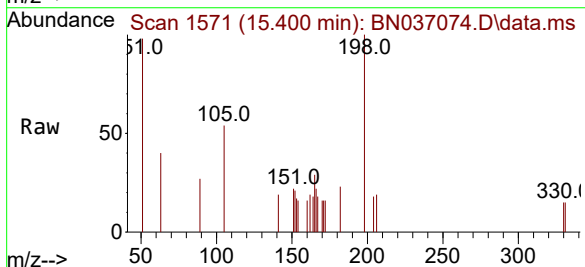
Tgt Ion:198 Resp: 447

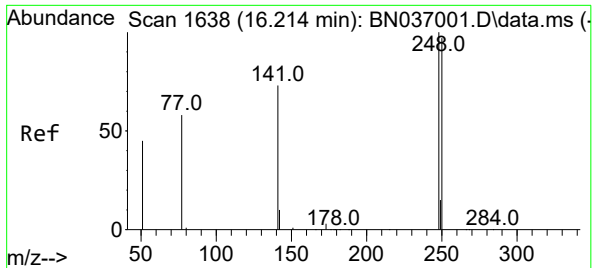
Ion Ratio Lower Upper

198 100

51 97.7 87.8 131.6

105 54.5 44.2 66.4

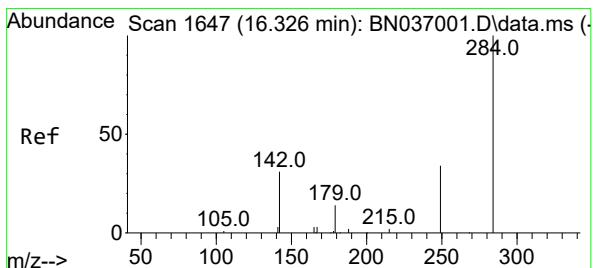
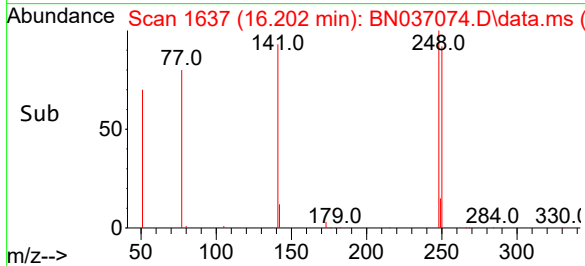
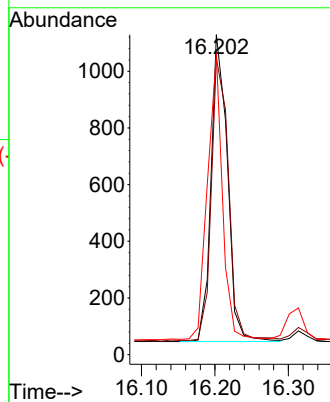
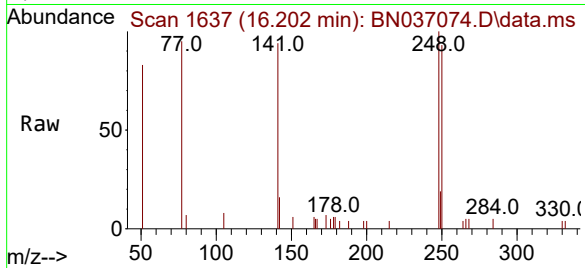




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

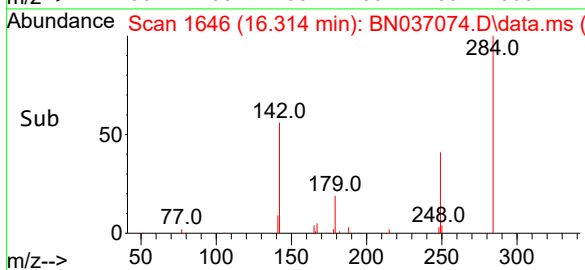
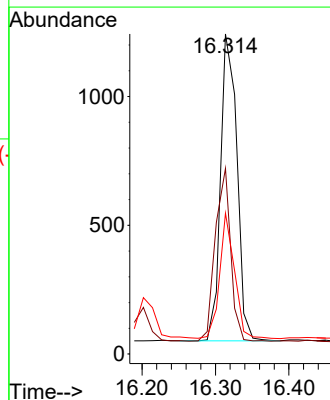
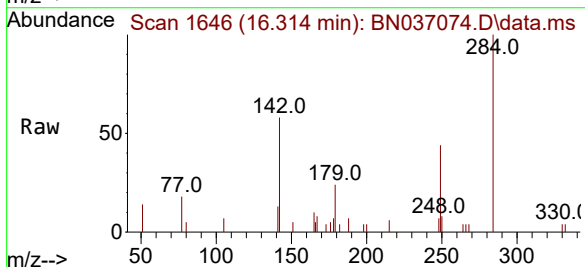
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

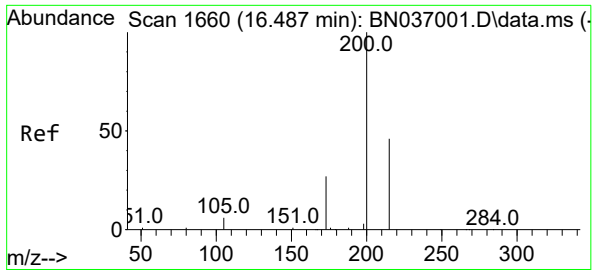
Tgt Ion:248 Resp: 1675
Ion Ratio Lower Upper
248 100
250 92.6 78.1 117.1
141 94.2 59.7 89.5#



#22
Hexachlorobenzene
Concen: 0.402 ng
RT: 16.314 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:284 Resp: 1839
Ion Ratio Lower Upper
284 100
142 53.0 41.2 61.8
249 37.0 28.7 43.1

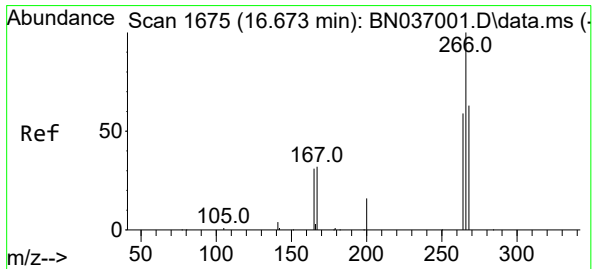
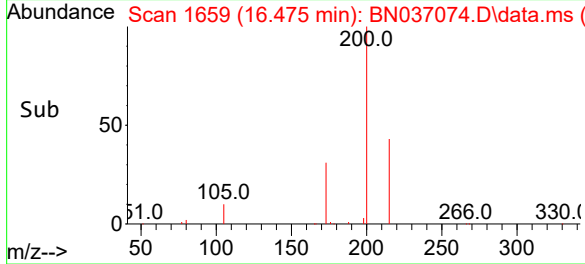
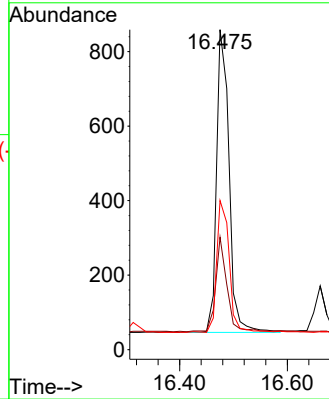
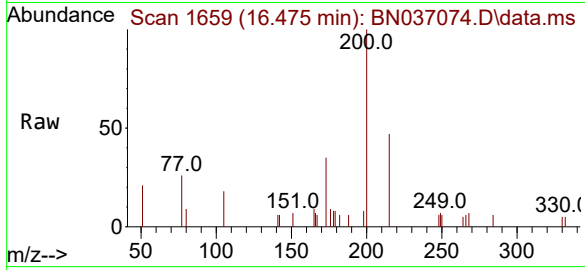




#23
Atrazine
Concen: 0.351 ng
RT: 16.475 min Scan# 1659
Delta R.T. -0.012 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

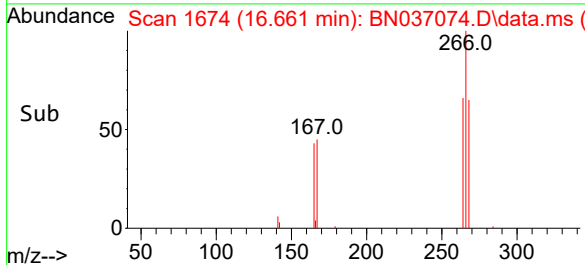
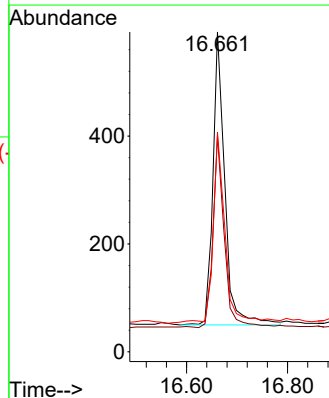
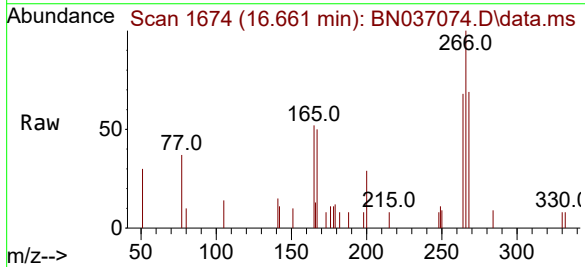
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

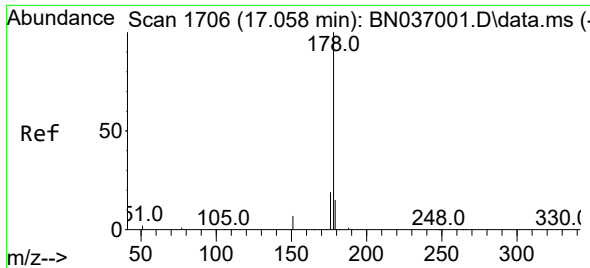
Tgt Ion	200	Resp:	1307
Ion Ratio	Lower	Upper	
200	100		
173	35.2	25.2	37.8
215	46.6	39.3	58.9



#24
Pentachlorophenol
Concen: 0.353 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion	266	Resp:	889
Ion Ratio	Lower	Upper	
266	100		
264	61.8	47.9	71.9
268	65.7	50.0	75.0

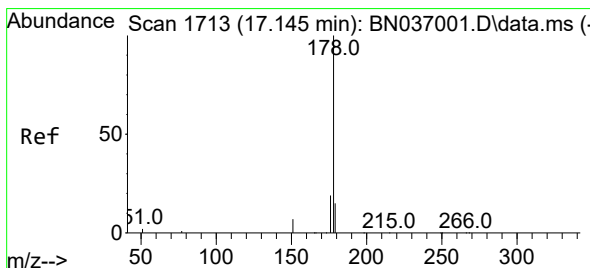
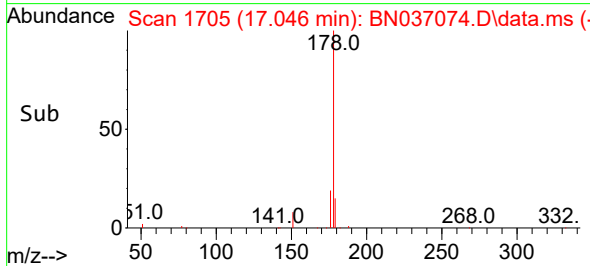
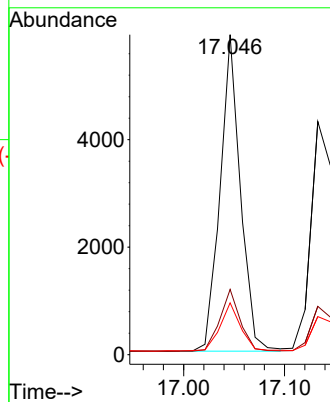
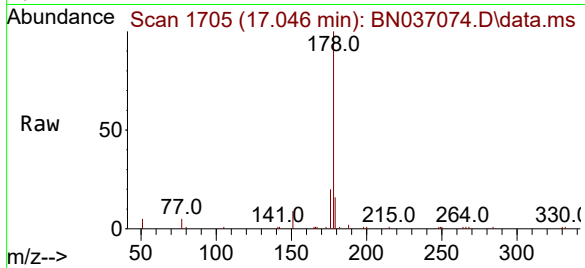




#25
Phenanthrene
Concen: 0.373 ng
RT: 17.046 min Scan# 1711
Delta R.T. -0.012 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

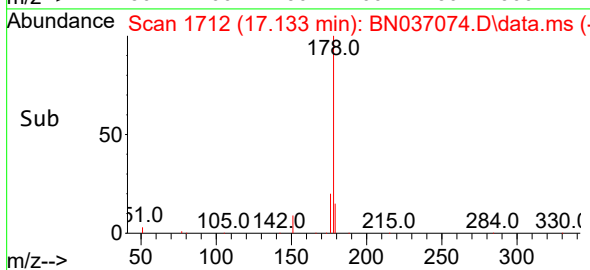
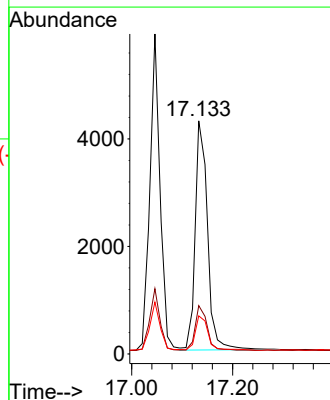
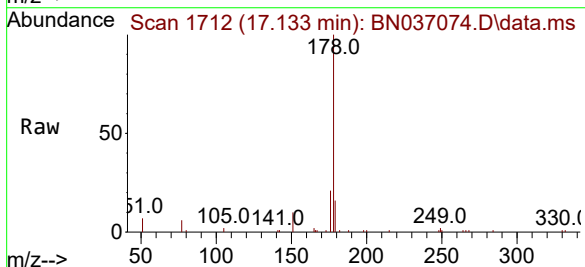
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

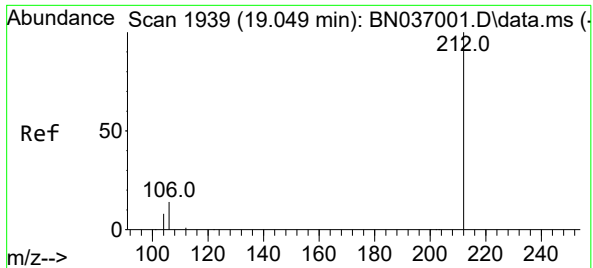
Tgt Ion:178 Resp: 8237
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.6 12.2 18.2



#26
Anthracene
Concen: 0.360 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:178 Resp: 7244
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.368 ng

RT: 19.045 min Scan# 1938

Delta R.T. -0.004 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

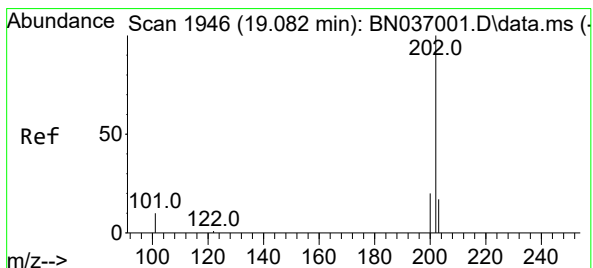
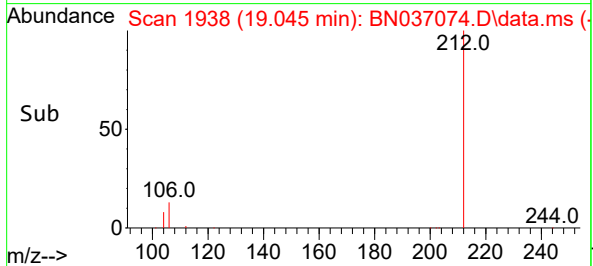
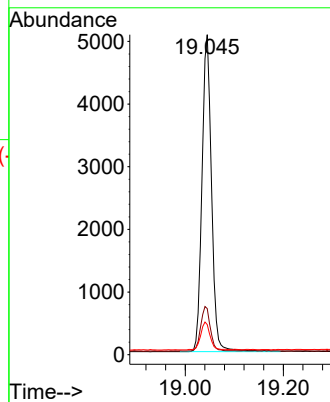
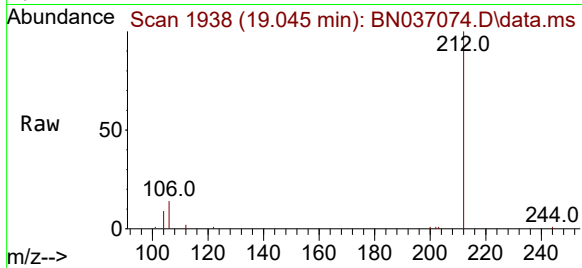
Tgt Ion:212 Resp: 6828

Ion Ratio Lower Upper

212 100

106 14.1 11.3 16.9

104 8.7 6.7 10.1



#28

Fluoranthene

Concen: 0.341 ng

RT: 19.073 min Scan# 1944

Delta R.T. -0.009 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

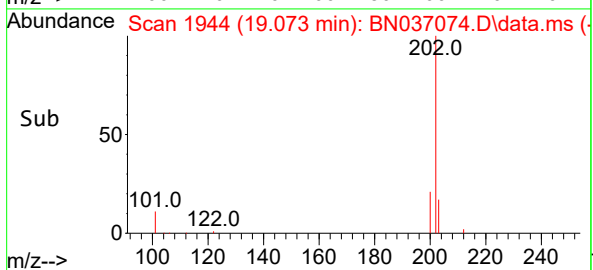
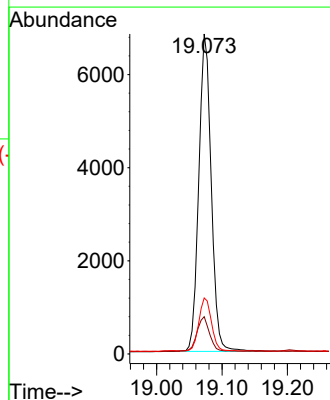
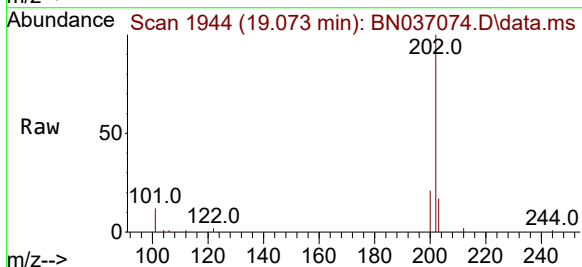
Tgt Ion:202 Resp: 8992

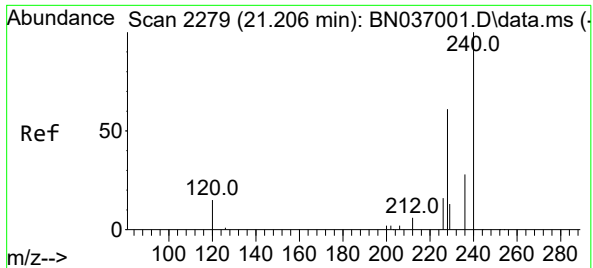
Ion Ratio Lower Upper

202 100

101 11.3 8.9 13.3

203 17.0 13.8 20.8

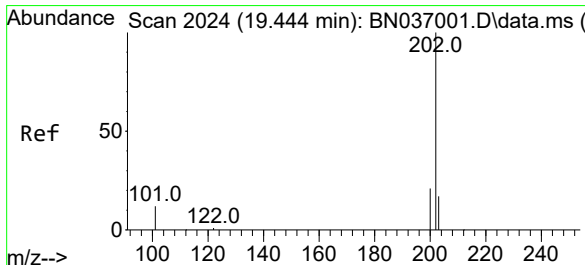
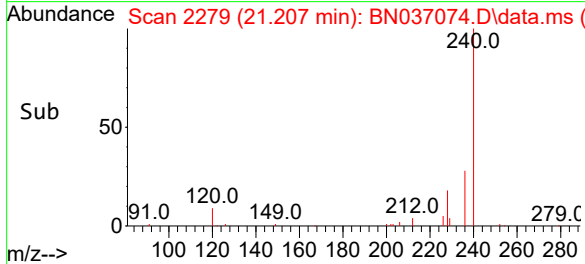
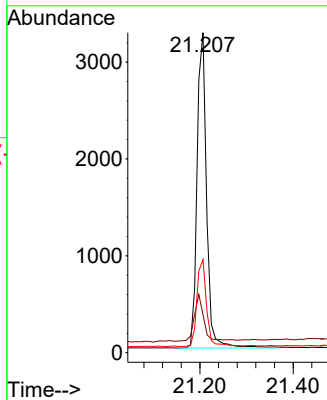
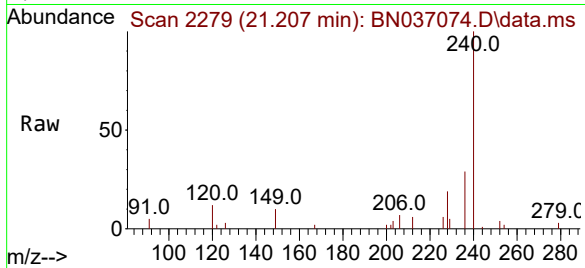




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.207 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

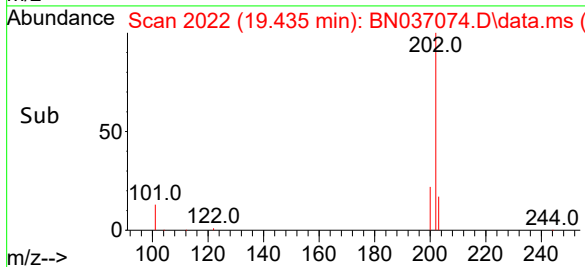
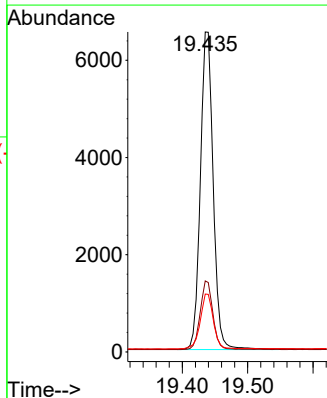
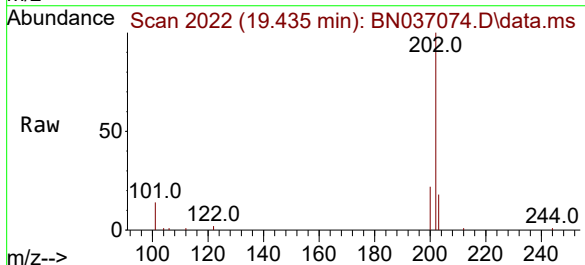
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

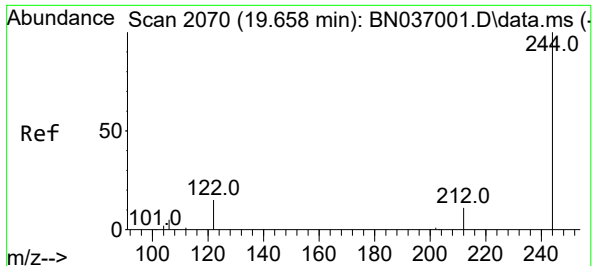
Tgt Ion:240 Resp: 4645
Ion Ratio Lower Upper
240 100
120 11.9 15.1 22.7#
236 29.1 24.0 36.0



#30
Pyrene
Concen: 0.448 ng
RT: 19.435 min Scan# 2022
Delta R.T. -0.009 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:202 Resp: 8904
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 17.6 14.2 21.4

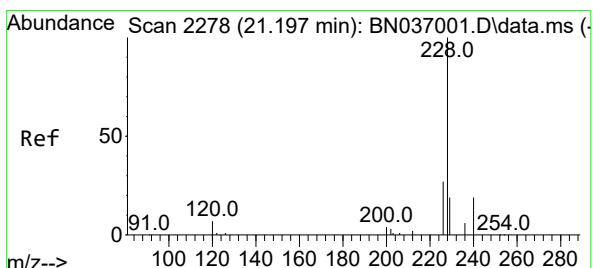
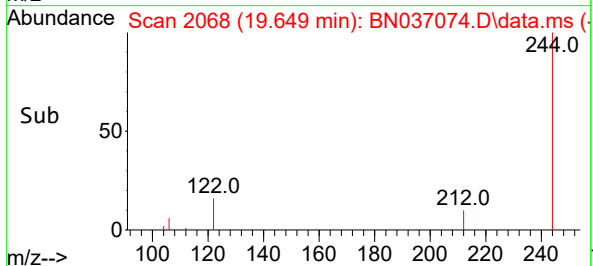
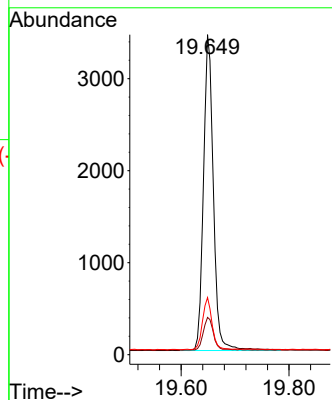
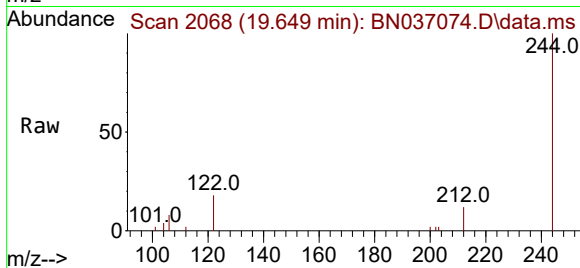




#31
Terphenyl-d14
Concen: 0.440 ng
RT: 19.649 min Scan# 2070
Delta R.T. -0.009 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

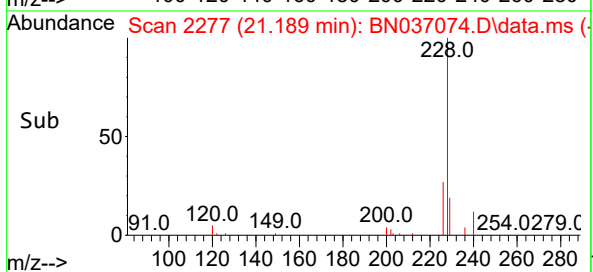
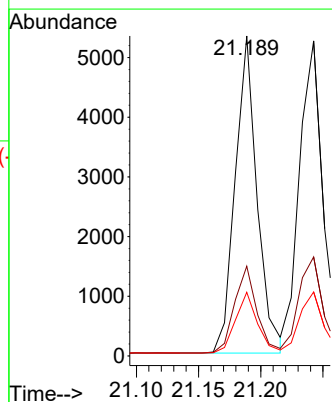
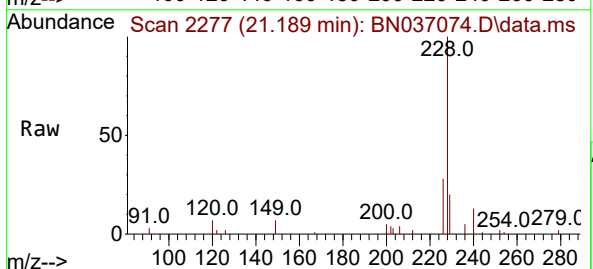
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

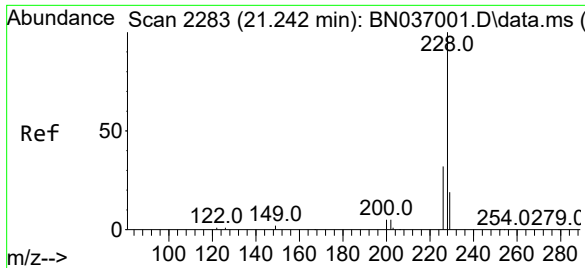
Tgt Ion:244 Resp: 4368
Ion Ratio Lower Upper
244 100
212 11.7 9.7 14.5
122 17.9 13.4 20.0



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN037074.D
Acq: 20 May 2025 15:09

Tgt Ion:228 Resp: 6527
Ion Ratio Lower Upper
228 100
226 28.1 22.2 33.4
229 19.9 16.0 24.0





#33

Chrysene

Concen: 0.379 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

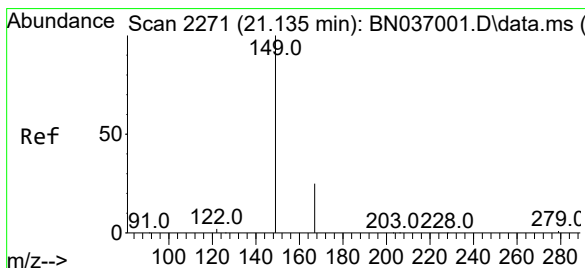
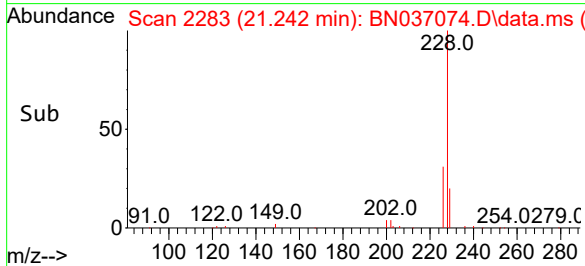
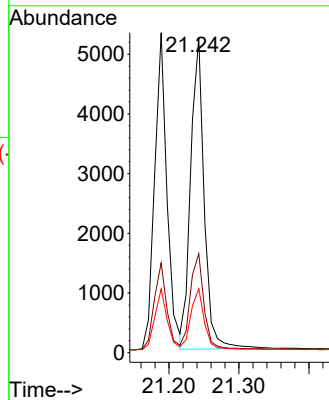
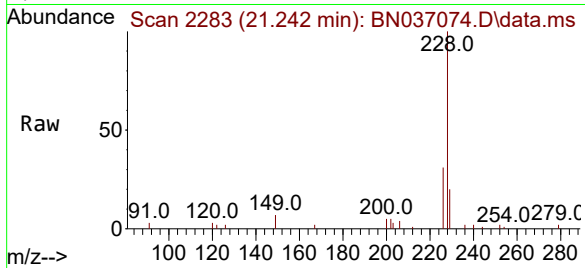
Tgt Ion:228 Resp: 7006

Ion Ratio Lower Upper

228 100

226 31.4 26.3 39.5

229 20.3 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

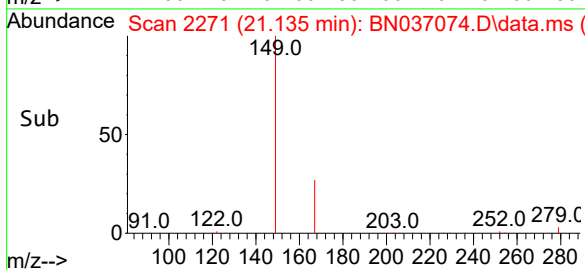
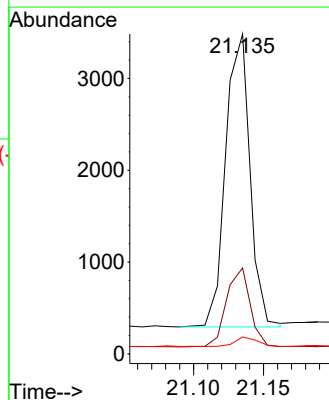
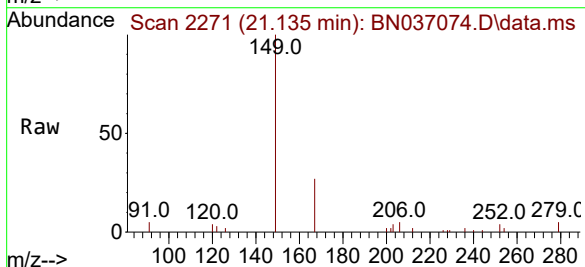
Tgt Ion:149 Resp: 3857

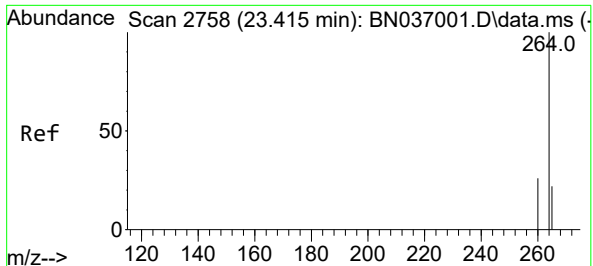
Ion Ratio Lower Upper

149 100

167 26.6 20.6 30.8

279 3.1 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.407 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037074.D

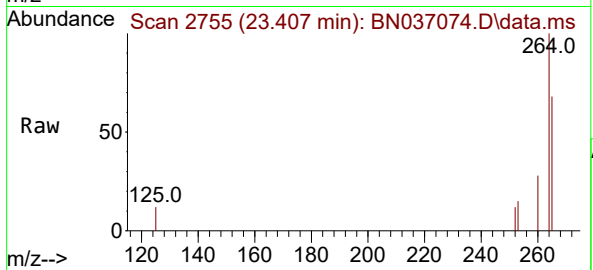
Acq: 20 May 2025 15:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



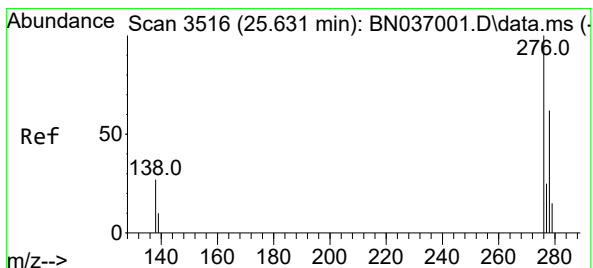
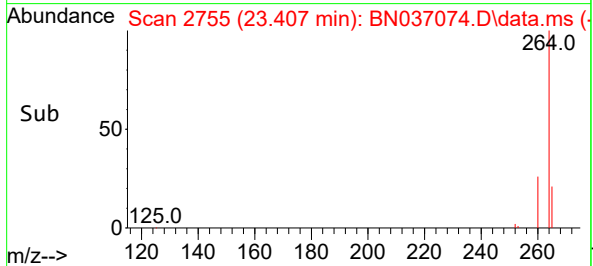
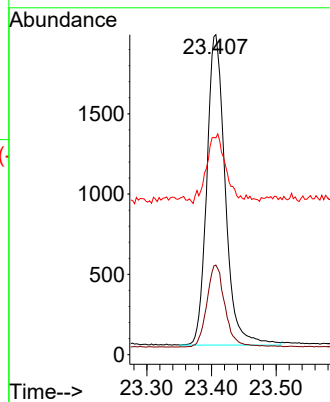
Tgt Ion:264 Resp: 3820

Ion Ratio Lower Upper

264 100

260 28.0 21.9 32.9

265 67.7 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.380 ng

RT: 25.614 min Scan# 3510

Delta R.T. -0.017 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

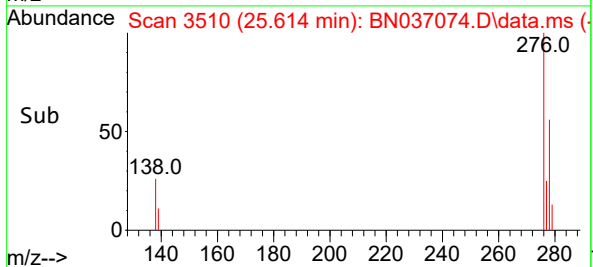
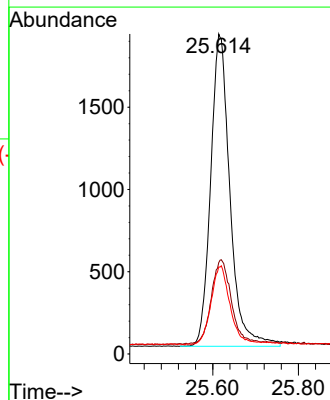
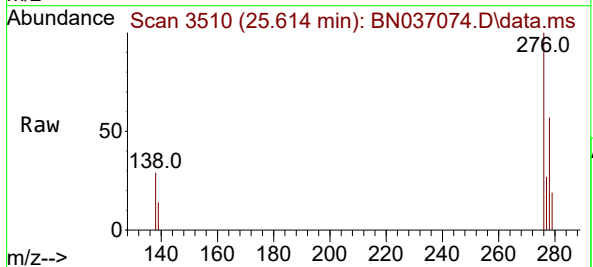
Tgt Ion:276 Resp: 5928

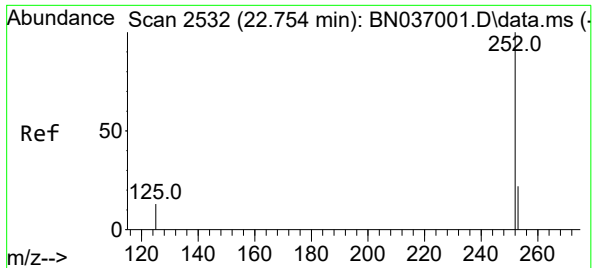
Ion Ratio Lower Upper

276 100

138 27.9 22.7 34.1

277 24.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.382 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

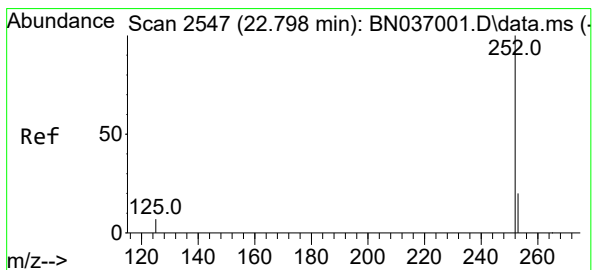
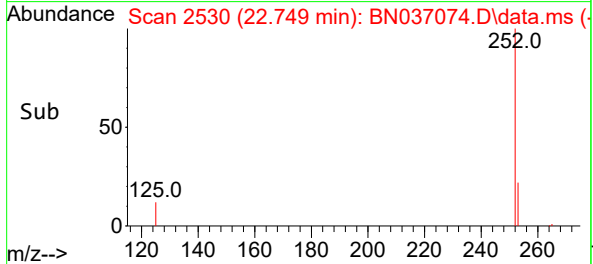
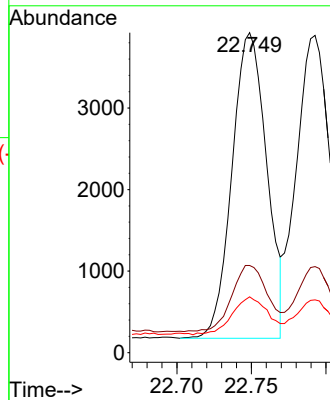
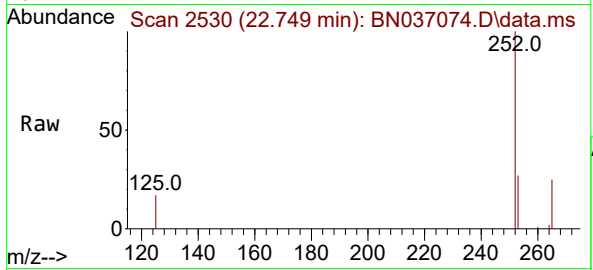
Tgt Ion:252 Resp: 6059

Ion Ratio Lower Upper

252 100

253 27.3 21.8 32.6

125 17.5 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 22.793 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

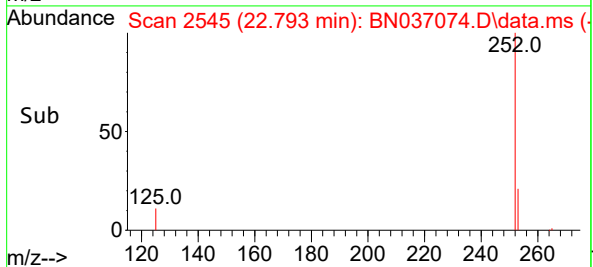
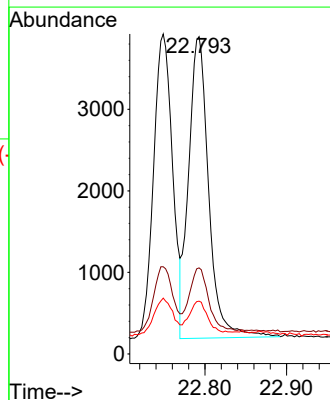
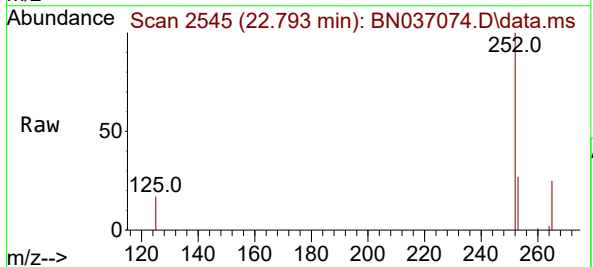
Tgt Ion:252 Resp: 6318

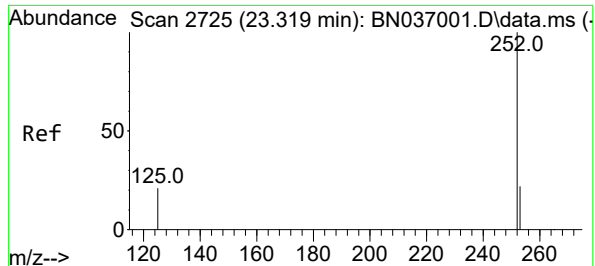
Ion Ratio Lower Upper

252 100

253 27.1 21.4 32.2

125 16.6 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.373 ng

RT: 23.310 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

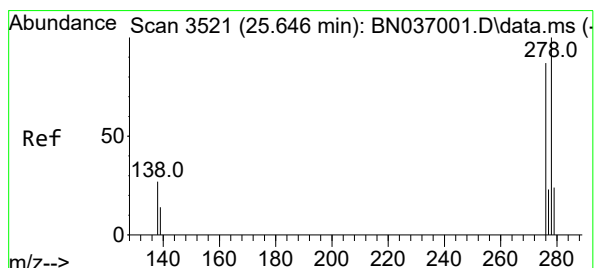
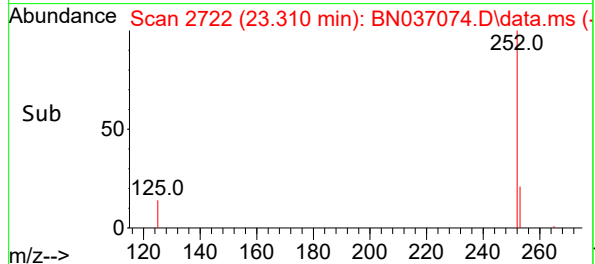
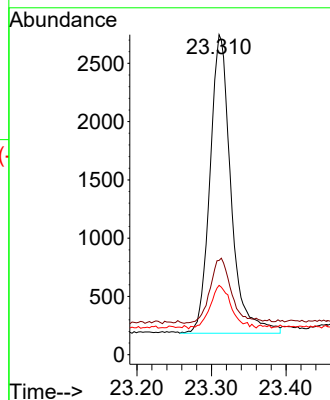
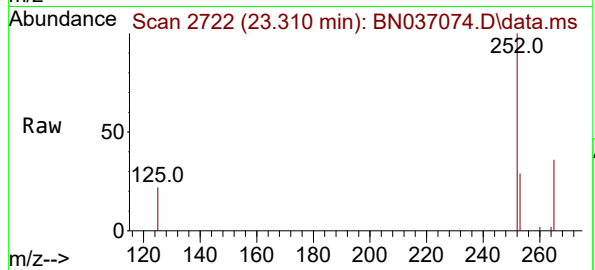
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252	Resp:	5011
Ion Ratio	Lower	Upper
252	100	
253	29.5	23.8 35.6
125	21.7	21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.372 ng

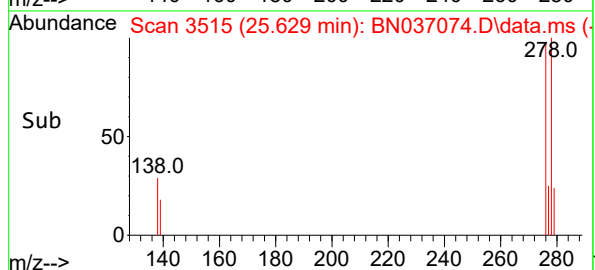
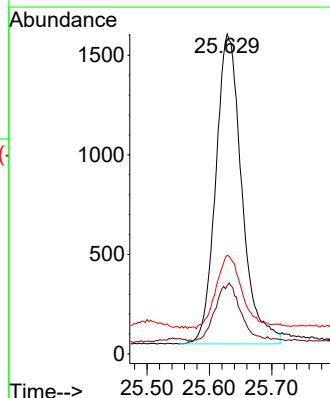
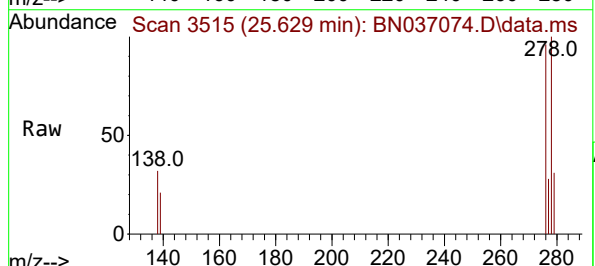
RT: 25.629 min Scan# 3515

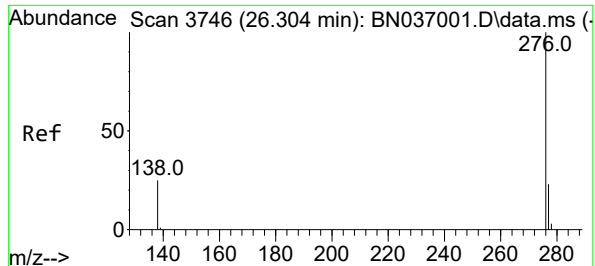
Delta R.T. -0.017 min

Lab File: BN037074.D

Acq: 20 May 2025 15:09

Tgt Ion:278	Resp:	4518
Ion Ratio	Lower	Upper
278	100	
139	21.3	17.4 26.0
279	30.9	24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.391 ng

RT: 26.289 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN037074.D

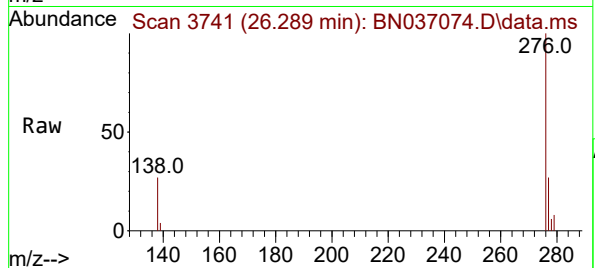
Acq: 20 May 2025 15:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



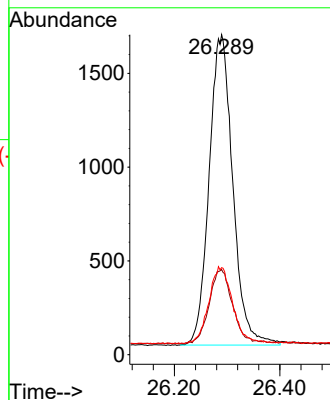
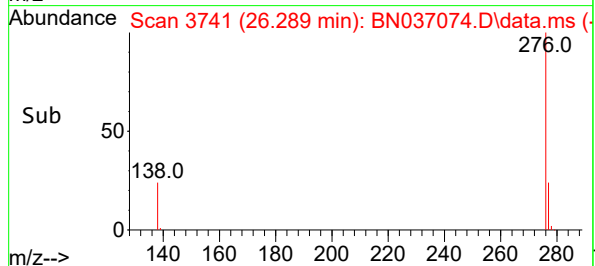
Tgt Ion:276 Resp: 5160

Ion Ratio Lower Upper

276 100

277 26.6 20.2 30.4

138 27.2 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
 Data File : BN037074.D
 Acq On : 20 May 2025 15:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 21 01:37:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 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	129	0.00
2	1,4-Dioxane	0.491	0.488	0.6	123	0.00
3	n-Nitrosodimethylamine	1.054	1.011	4.1	133	0.00
4 S	2-Fluorophenol	1.048	0.964	8.0	110	0.00
5 S	Phenol-d6	1.311	1.198	8.6	112	0.00
6	bis(2-Chloroethyl)ether	1.207	1.191	1.3	133	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	136	-0.01
8 S	Nitrobenzene-d5	0.436	0.402	7.8	137	-0.01
9	Naphthalene	1.182	1.101	6.9	131	-0.01
10	Hexachlorobutadiene	0.248	0.241	2.8	134	-0.01
11 SURR	2-Methylnaphthalene-d10	0.563	0.573	-1.8	141	0.00
12	2-Methylnaphthalene	0.760	0.717	5.7	132	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	135	-0.01
14 S	2,4,6-Tribromophenol	0.176	0.153	13.1	116	-0.01
15 S	2-Fluorobiphenyl	1.832	1.798	1.9	128	0.00
16	Acenaphthylene	1.947	1.835	5.8	131	-0.01
17	Acenaphthene	1.272	1.210	4.9	132	-0.01
18	Fluorene	1.669	1.592	4.6	132	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	135	0.00
20	4,6-Dinitro-2-methylphenol	0.090	0.066	26.7#	122	-0.01
21	4-Bromophenyl-phenylether	0.253	0.248	2.0	134	-0.01
22	Hexachlorobenzene	0.270	0.272	-0.7	131	-0.01
23	Atrazine	0.220	0.193	12.3	124	-0.01
24	Pentachlorophenol	0.149	0.131	12.1	126	-0.01
25	Phenanthrene	1.307	1.218	6.8	127	-0.01
26	Anthracene	1.190	1.071	10.0	124	-0.01
27 SURR	Fluoranthene-d10	1.097	1.010	7.9	127	0.00
28	Fluoranthene	1.562	1.330	14.9	120	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	104	0.00
30	Pyrene	1.711	1.917	-12.0	116	0.00
31 S	Terphenyl-d14	0.856	0.940	-9.8	112	0.00
32	Benzo(a)anthracene	1.506	1.405	6.7	99	0.00
33	Chrysene	1.593	1.508	5.3	97	0.00
34	Bis(2-ethylhexyl)phthalate	0.927	0.830	10.5	95	0.00
35 I	Perylene-d12	1.000	1.000	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.552	5.0	80	-0.02
37	Benzo(b)fluoranthene	1.659	1.586	4.4	84	0.00
38	Benzo(k)fluoranthene	1.639	1.654	-0.9	85	0.00
39 C	Benzo(a)pyrene	1.407	1.312	6.8	80	0.00
40	Dibenzo(a,h)anthracene	1.272	1.183	7.0	79	-0.02
41	Benzo(g,h,i)perylene	1.383	1.351	2.3	80	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037074.D
Acq On : 20 May 2025 15:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 21 01:37:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	129	0.00
2	1,4-Dioxane	0.400	0.398	0.5	123	0.00
3	n-Nitrosodimethylamine	0.400	0.384	4.0	133	0.00
4 S	2-Fluorophenol	0.400	0.368	8.0	110	0.00
5 S	Phenol-d6	0.400	0.366	8.5	112	0.00
6	bis(2-Chloroethyl)ether	0.400	0.395	1.3	133	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	136	-0.01
8 S	Nitrobenzene-d5	0.400	0.369	7.8	137	-0.01
9	Naphthalene	0.400	0.373	6.8	131	-0.01
10	Hexachlorobutadiene	0.400	0.388	3.0	134	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.407	-1.7	141	0.00
12	2-Methylnaphthalene	0.400	0.377	5.8	132	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	135	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.349	12.8	116	-0.01
15 S	2-Fluorobiphenyl	0.400	0.393	1.8	128	0.00
16	Acenaphthylene	0.400	0.377	5.8	131	-0.01
17	Acenaphthene	0.400	0.380	5.0	132	-0.01
18	Fluorene	0.400	0.382	4.5	132	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	135	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.347	13.3	122	-0.01
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	134	-0.01
22	Hexachlorobenzene	0.400	0.402	-0.5	131	-0.01
23	Atrazine	0.400	0.351	12.3	124	-0.01
24	Pentachlorophenol	0.400	0.353	11.8	126	-0.01
25	Phenanthrene	0.400	0.373	6.8	127	-0.01
26	Anthracene	0.400	0.360	10.0	124	-0.01
27 SURR	Fluoranthene-d10	0.400	0.368	8.0	127	0.00
28	Fluoranthene	0.400	0.341	14.8	120	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	104	0.00
30	Pyrene	0.400	0.448	-12.0	116	0.00
31 S	Terphenyl-d14	0.400	0.440	-10.0	112	0.00
32	Benzo(a)anthracene	0.400	0.373	6.8	99	0.00
33	Chrysene	0.400	0.379	5.3	97	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.358	10.5	95	0.00
35 I	Perylene-d12	0.400	0.400	0.0	84	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.380	5.0	80	-0.02
37	Benzo(b)fluoranthene	0.400	0.382	4.5	84	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	85	0.00
39 C	Benzo(a)pyrene	0.400	0.373	6.8	80	0.00
40	Dibenzo(a,h)anthracene	0.400	0.372	7.0	79	-0.02
41	Benzo(g,h,i)perylene	0.400	0.391	2.3	80	-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: TETR06

Lab Code: CHEM Case No.: Q2063 SAS No.: Q2063 SDG No.: Q2063

Instrument ID: BNA_N Calibration Date/Time: 05/20/2025 19:59

Lab File ID: BN037082.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.581		3.2	50.0
Fluoranthene-d10	1.097	1.017		-7.3	50.0
2-Fluorophenol	1.048	0.946		-9.7	50.0
Phenol-d6	1.311	1.150		-12.3	50.0
Nitrobenzene-d5	0.436	0.417		-4.4	50.0
2-Fluorobiphenyl	1.832	1.796		-2.0	50.0
2,4,6-Tribromophenol	0.176	0.165		-6.3	50.0
Terphenyl-d14	0.856	0.957		11.8	50.0
1,4-Dioxane	0.491	0.473		-3.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
 Data File : BN037082.D
 Acq On : 20 May 2025 19:59
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: May 21 01:39:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

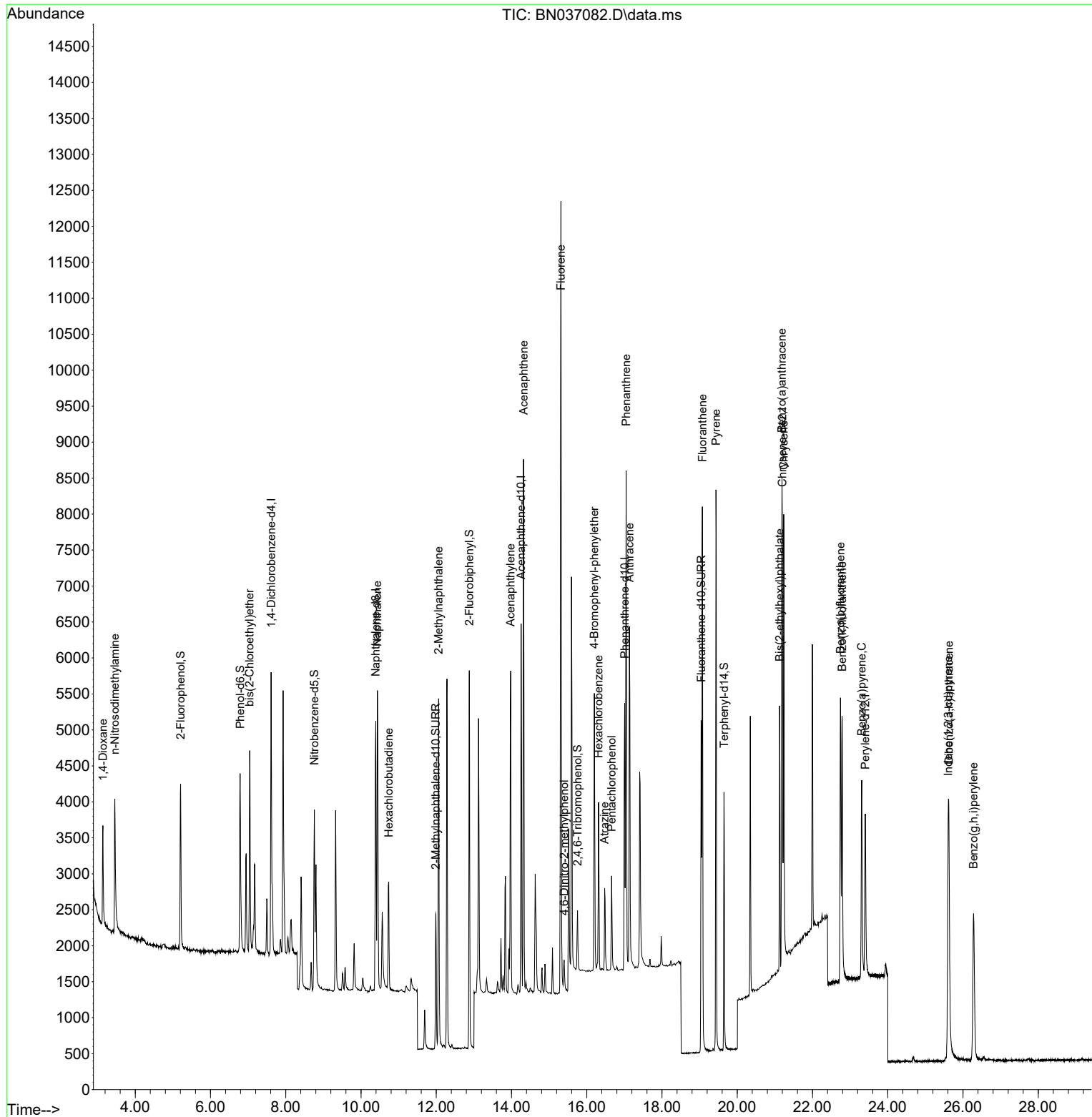
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1783	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4793	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2726	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5209	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3682	0.400	ng	0.00
35) Perylene-d12	23.404	264	3032	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1687	0.361	ng	0.00
5) Phenol-d6	6.788	99	2050	0.351	ng	0.00
8) Nitrobenzene-d5	8.760	82	2001	0.383	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	2785	0.413	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	449	0.375	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4896	0.392	ng	-0.01
27) Fluoranthene-d10	19.045	212	5295	0.371	ng	0.00
31) Terphenyl-d14	19.649	244	3525	0.448	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.141	88	843	0.385	ng	97
3) n-Nitrosodimethylamine	3.458	42	1910	0.406	ng	# 88
6) bis(2-Chloroethyl)ether	7.041	93	2021	0.376	ng	98
9) Naphthalene	10.436	128	5350	0.378	ng	99
10) Hexachlorobutadiene	10.735	225	1242	0.418	ng	# 99
12) 2-Methylnaphthalene	12.062	142	3450	0.379	ng	98
16) Acenaphthylene	13.978	152	4959	0.374	ng	100
17) Acenaphthene	14.320	154	3258	0.376	ng	99
18) Fluorene	15.314	166	4297	0.378	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	340	0.343	ng	98
21) 4-Bromophenyl-phenylether	16.202	248	1297	0.394	ng	# 88
22) Hexachlorobenzene	16.314	284	1489	0.423	ng	99
23) Atrazine	16.475	200	1066	0.371	ng	95
24) Pentachlorophenol	16.661	266	615	0.317	ng	93
25) Phenanthrene	17.046	178	6451	0.379	ng	99
26) Anthracene	17.133	178	5733	0.370	ng	99
28) Fluoranthene	19.073	202	7033	0.346	ng	99
30) Pyrene	19.435	202	6958	0.442	ng	100
32) Benzo(a)anthracene	21.189	228	5116	0.369	ng	99
33) Chrysene	21.233	228	5565	0.380	ng	99
34) Bis(2-ethylhexyl)phtha...	21.126	149	3381	0.396	ng	100
36) Indeno(1,2,3-cd)pyrene	25.605	276	4828	0.390	ng	96
37) Benzo(b)fluoranthene	22.743	252	4891	0.389	ng	99
38) Benzo(k)fluoranthene	22.787	252	4818	0.388	ng	98
39) Benzo(a)pyrene	23.307	252	4022	0.377	ng	96
40) Dibenzo(a,h)anthracene	25.623	278	3689	0.382	ng	97
41) Benzo(g,h,i)perylene	26.281	276	4219	0.403	ng	98

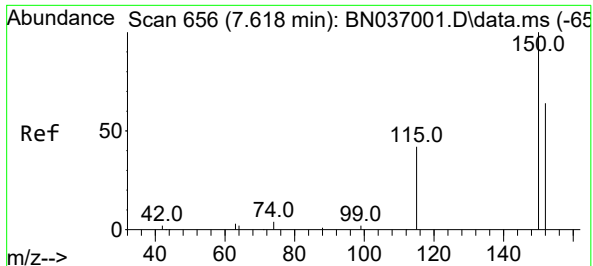
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Acq On : 20 May 2025 19:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: May 21 01:39:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

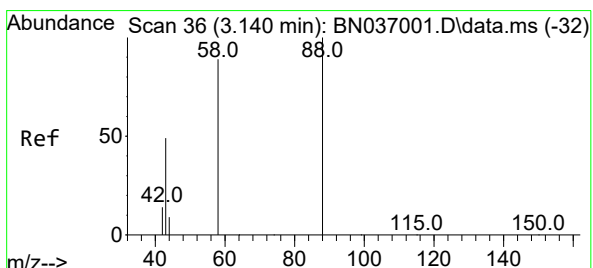
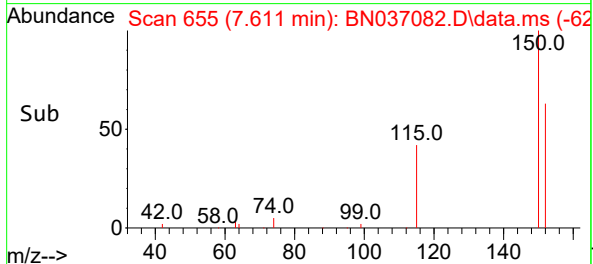
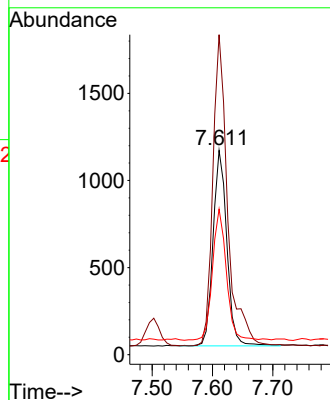
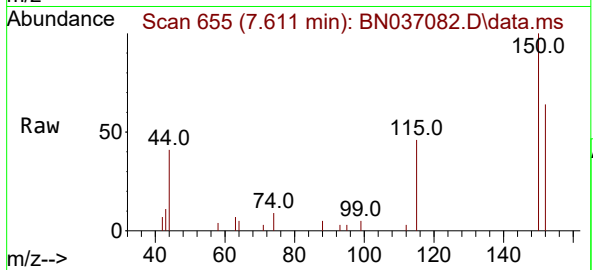




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

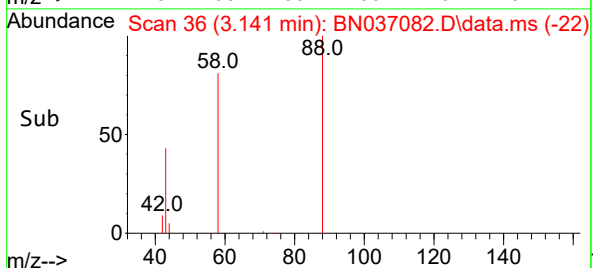
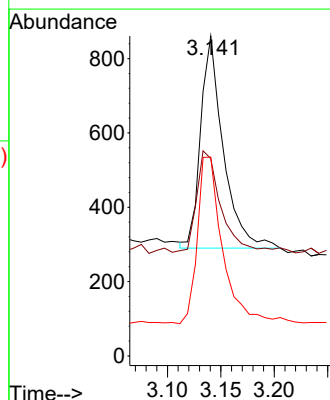
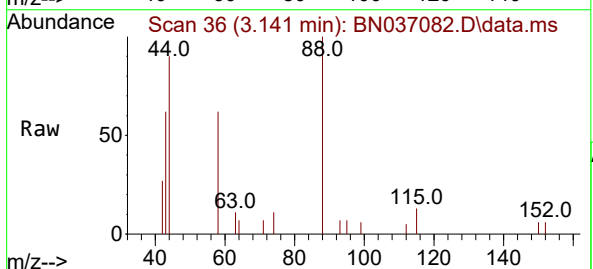
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

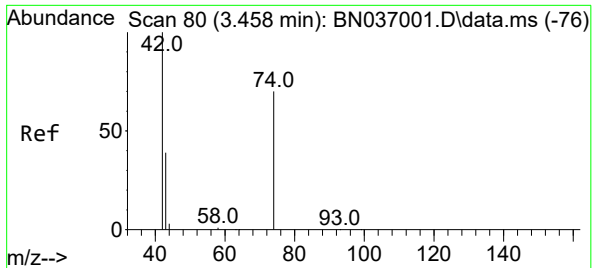
Tgt Ion:152 Resp: 1783
Ion Ratio Lower Upper
152 100
150 156.6 123.9 185.9
115 71.3 55.8 83.8



#2
1,4-Dioxane
Concen: 0.385 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion: 88 Resp: 843
Ion Ratio Lower Upper
88 100
43 51.0 37.4 56.0
58 85.6 68.8 103.2

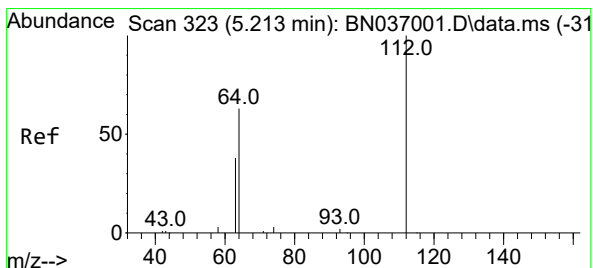
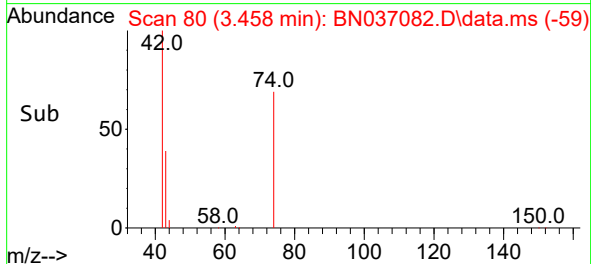
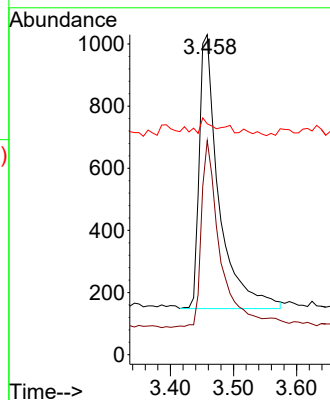
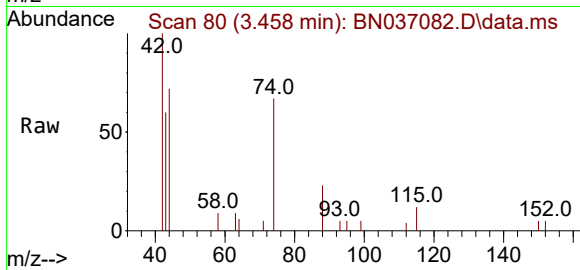




#3
n-Nitrosodimethylamine
Concen: 0.406 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

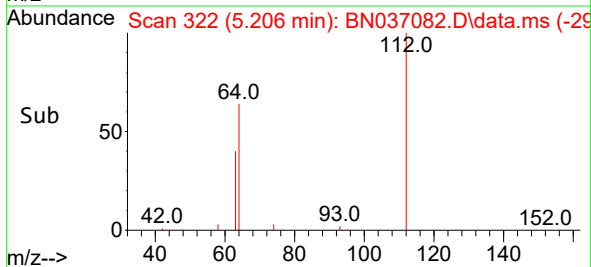
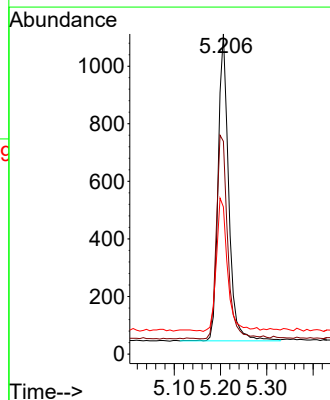
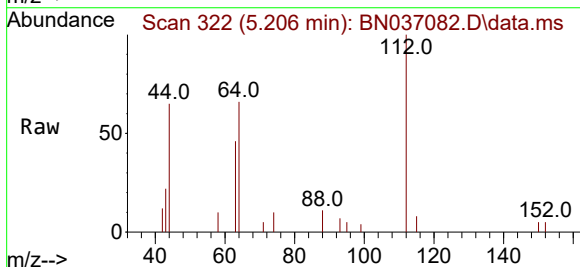
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

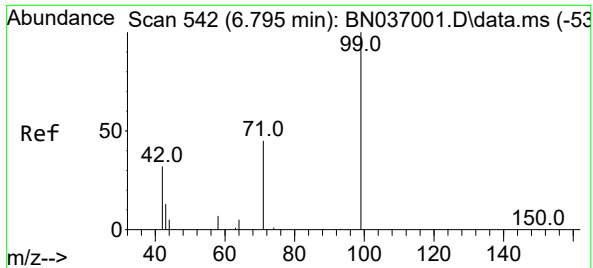
Tgt Ion: 42 Resp: 1910
Ion Ratio Lower Upper
42 100
74 67.1 59.8 89.6
44 2.4 11.9 17.9#



#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion: 112 Resp: 1687
Ion Ratio Lower Upper
112 100
64 70.7 55.7 83.5
63 46.2 34.6 51.8

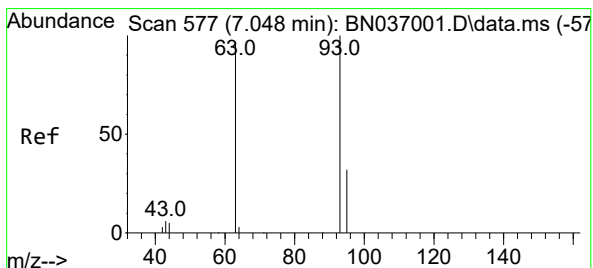
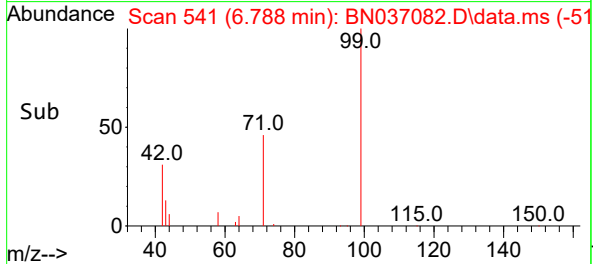
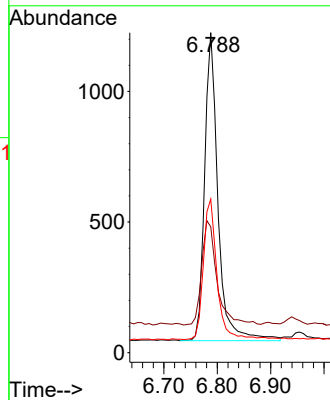
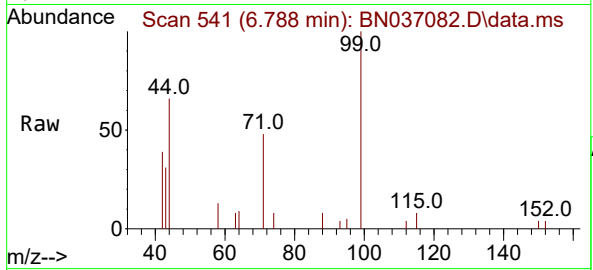




#5
Phenol-d6
Concen: 0.351 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

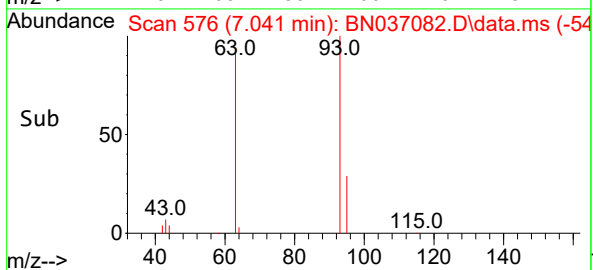
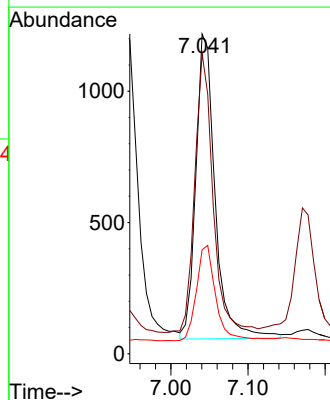
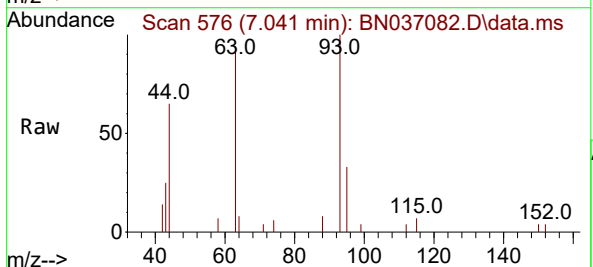
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

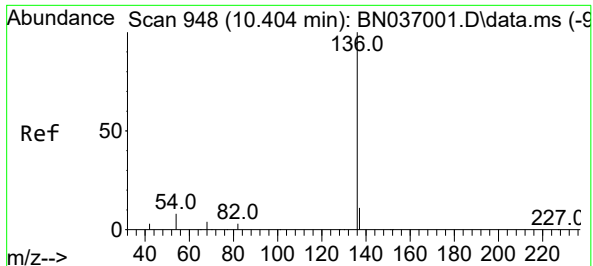
Tgt Ion: 99 Resp: 2050
Ion Ratio Lower Upper
99 100
42 38.7 29.3 43.9
71 47.2 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.041 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion: 93 Resp: 2021
Ion Ratio Lower Upper
93 100
63 85.9 70.1 105.1
95 31.2 26.2 39.2

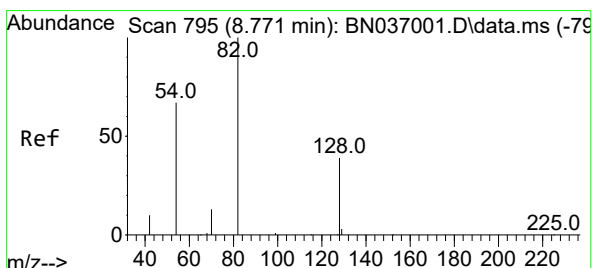
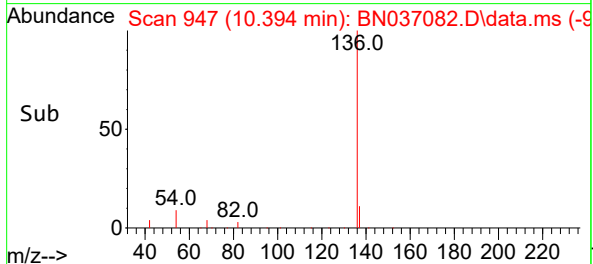
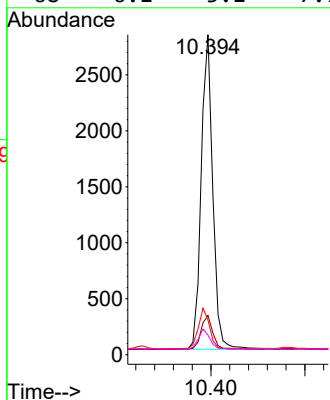
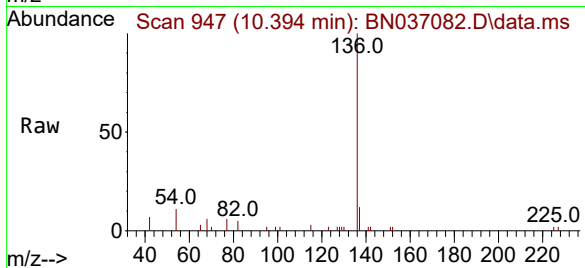




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

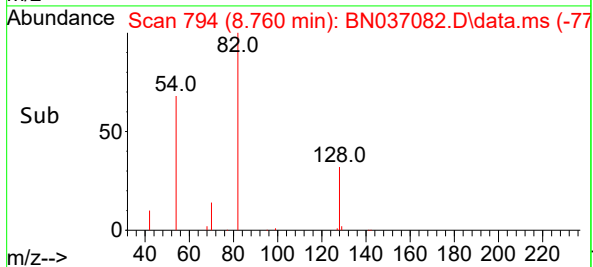
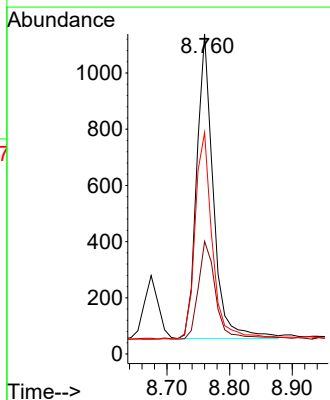
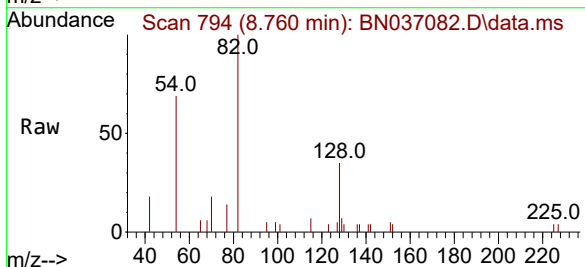
Instrument :
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ClientSampleId :
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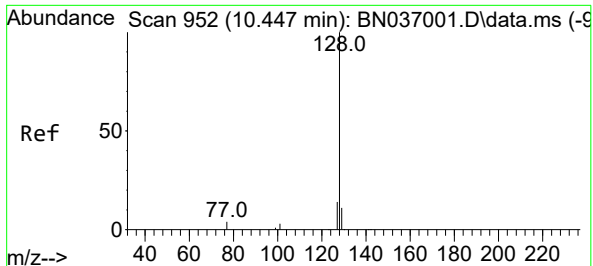
Tgt Ion:	136	Resp:	4793
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.4	15.6
54	10.8	8.5	12.7
68	6.1	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:	82	Resp:	2001
Ion	Ratio	Lower	Upper
82	100		
128	35.2	34.0	51.0
54	69.2	55.0	82.4

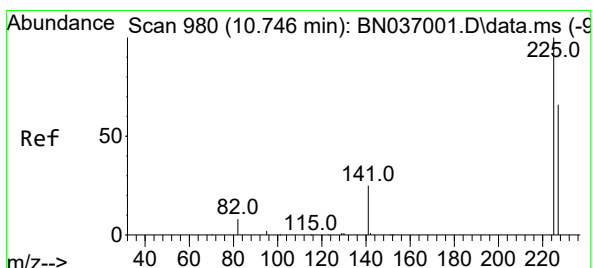
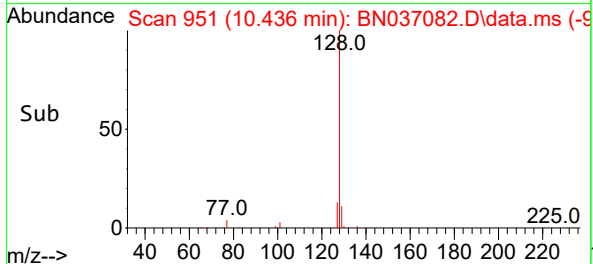
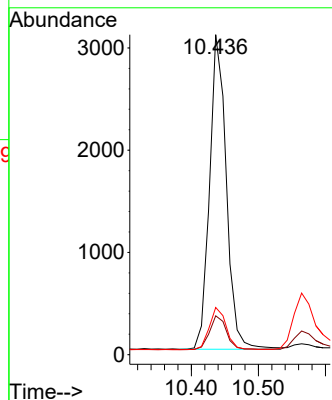
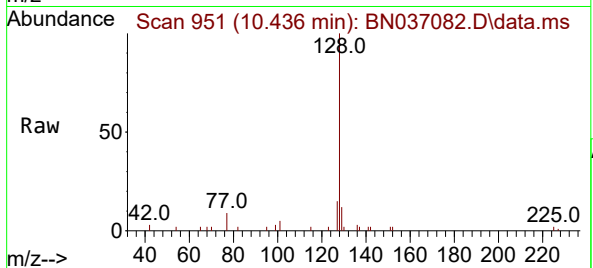




#9
Naphthalene
Concen: 0.378 ng
RT: 10.436 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

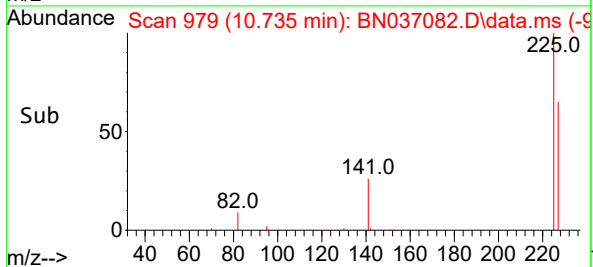
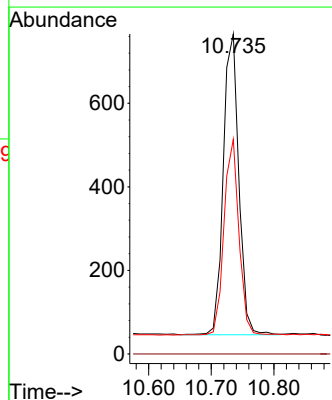
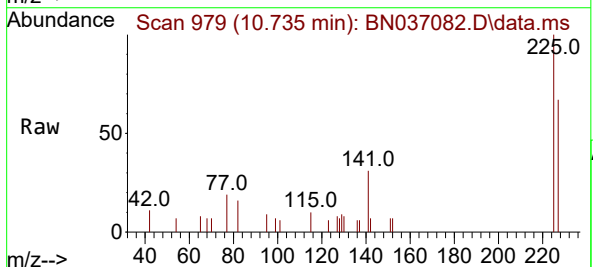
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BNA_N
ClientSampleId :
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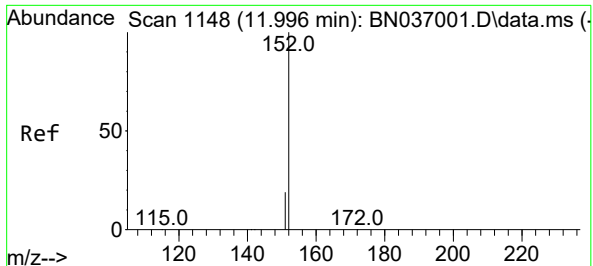
Tgt Ion:	128	Resp:	5350
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.7	14.5
127	14.8	12.4	18.6



#10
Hexachlorobutadiene
Concen: 0.418 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:	225	Resp:	1242
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.0	50.9	76.3

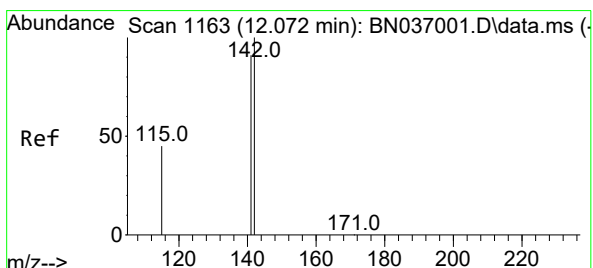
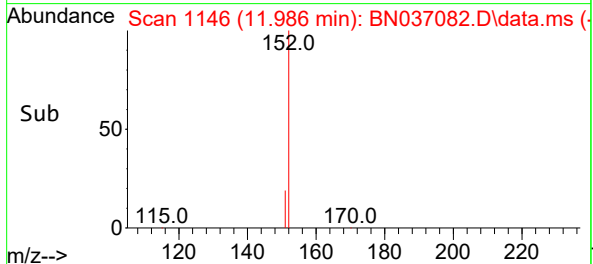
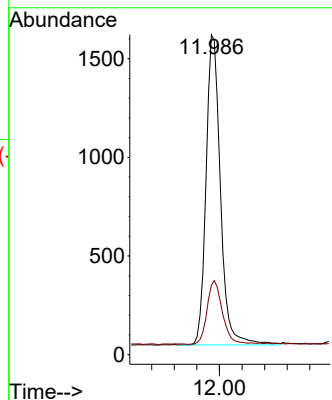
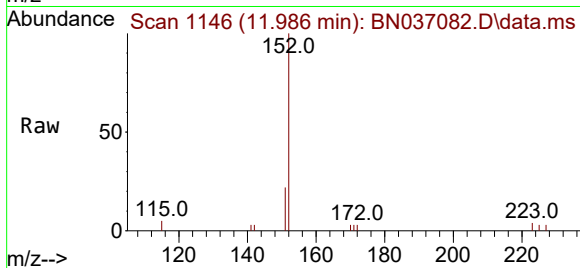




#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 11.986 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

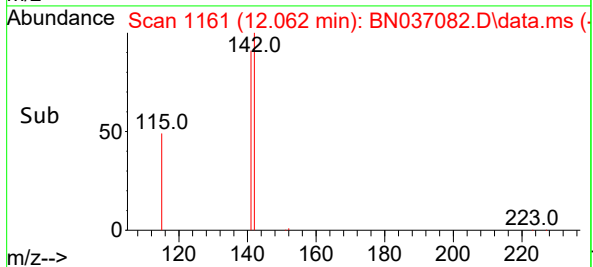
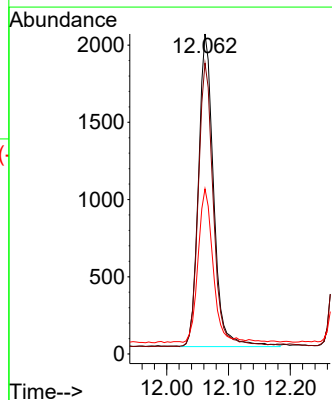
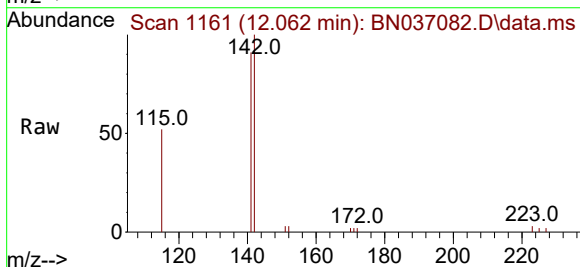
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

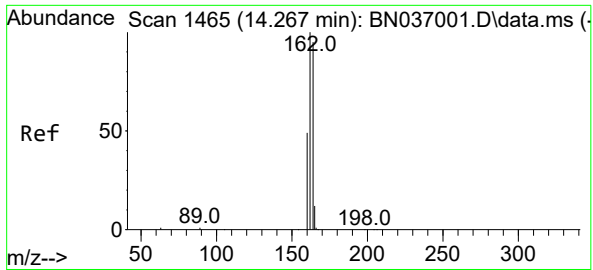
Tgt Ion:152 Resp: 2785
Ion Ratio Lower Upper
152 100
151 21.8 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.379 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:142 Resp: 3450
Ion Ratio Lower Upper
142 100
141 90.9 73.3 109.9
115 51.6 38.4 57.6

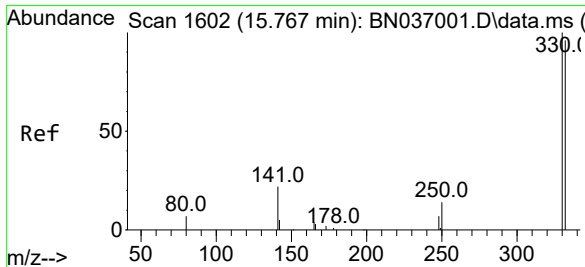
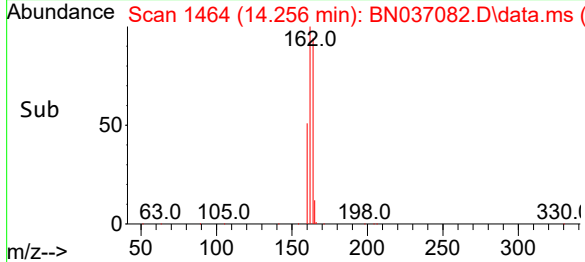
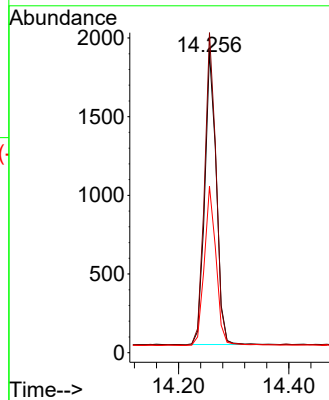
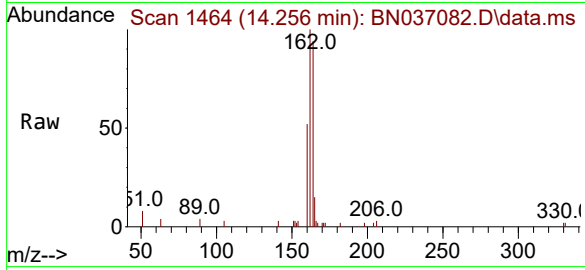




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

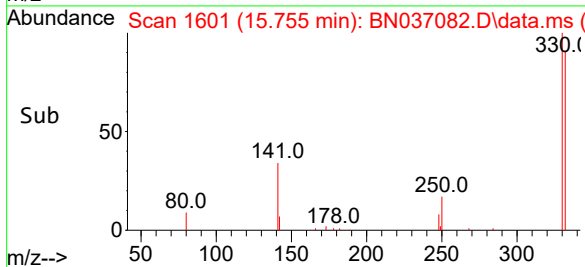
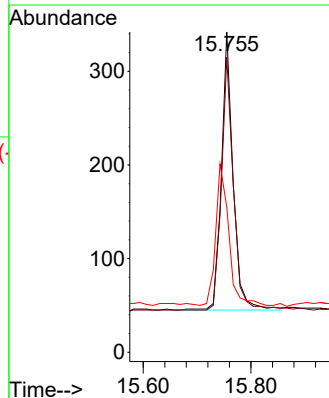
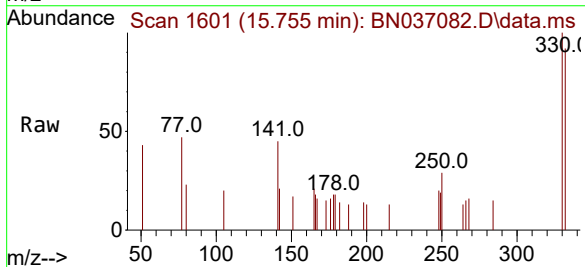
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

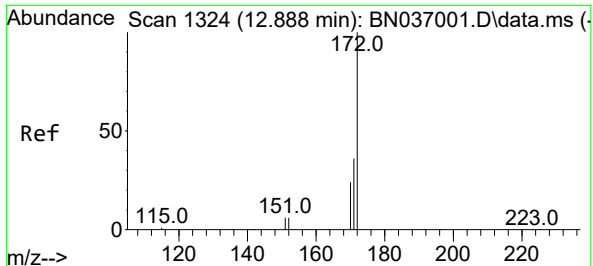
Tgt Ion:164 Resp: 2726
Ion Ratio Lower Upper
164 100
162 106.5 84.2 126.4
160 55.4 42.6 63.8



#14
2,4,6-Tribromophenol
Concen: 0.375 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:330 Resp: 449
Ion Ratio Lower Upper
330 100
332 94.0 73.8 110.8
141 56.1 43.9 65.9

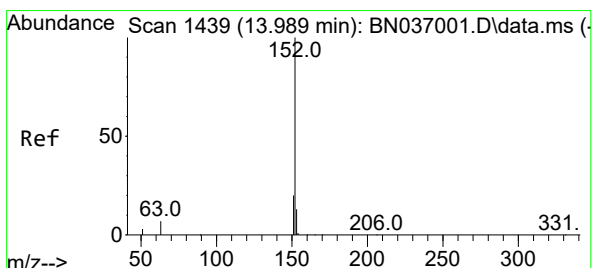
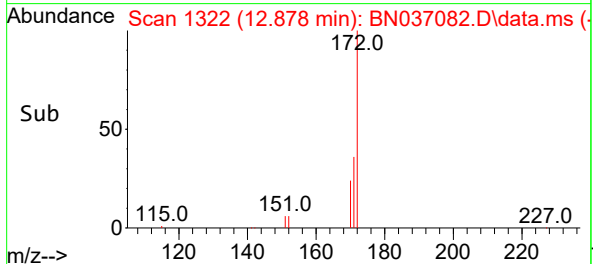
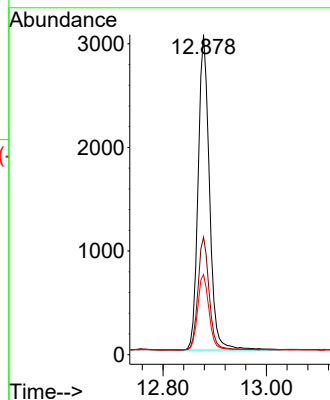
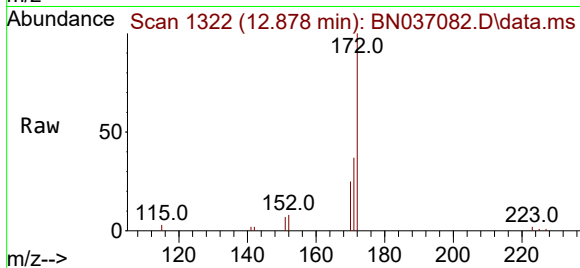




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.878 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

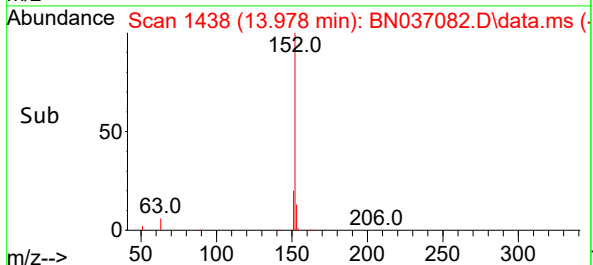
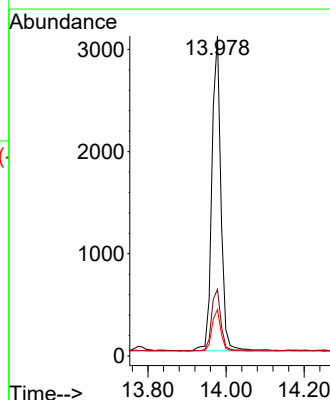
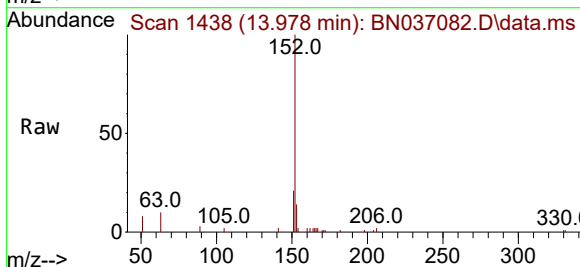
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

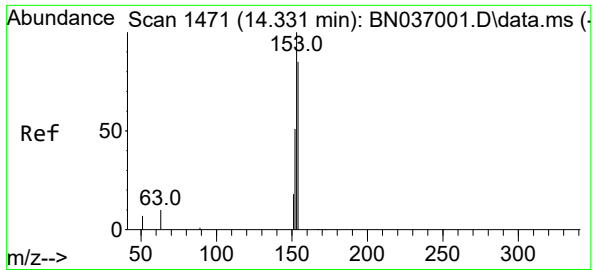
Tgt Ion:172 Resp: 4896
Ion Ratio Lower Upper
172 100
171 36.7 29.2 43.8
170 25.0 20.5 30.7



#16
Acenaphthylene
Concen: 0.374 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:152 Resp: 4959
Ion Ratio Lower Upper
152 100
151 20.1 16.1 24.1
153 13.0 10.5 15.7

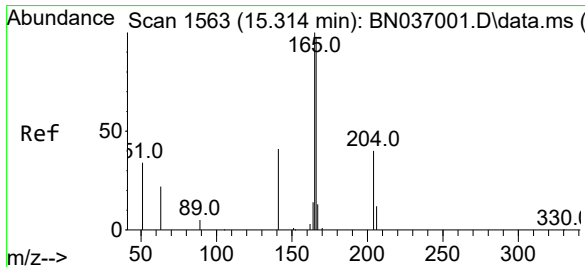
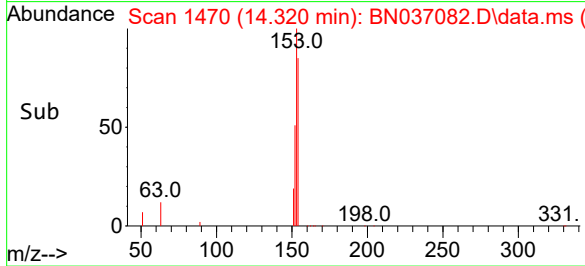
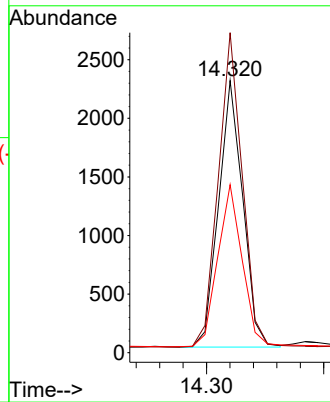
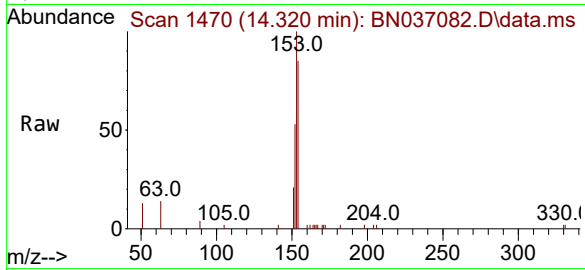




#17
Acenaphthene
Concen: 0.376 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

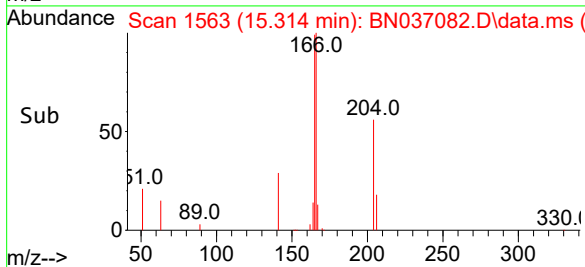
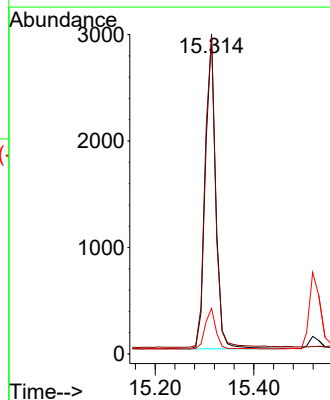
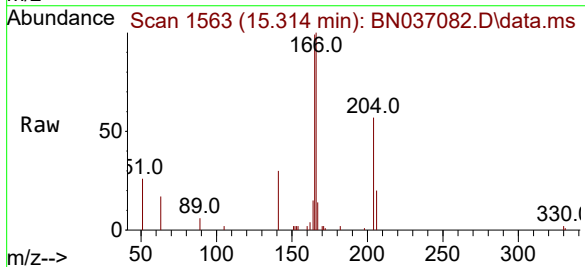
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

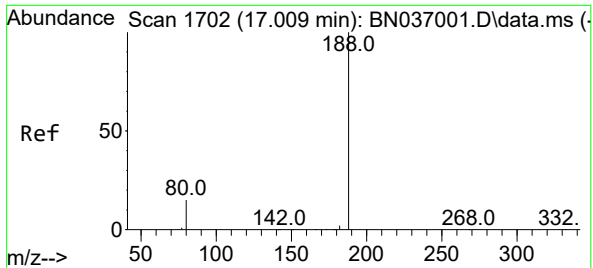
Tgt Ion:154 Resp: 3258
Ion Ratio Lower Upper
154 100
153 117.4 94.2 141.4
152 62.9 49.4 74.0



#18
Fluorene
Concen: 0.378 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:166 Resp: 4297
Ion Ratio Lower Upper
166 100
165 100.4 80.6 120.8
167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

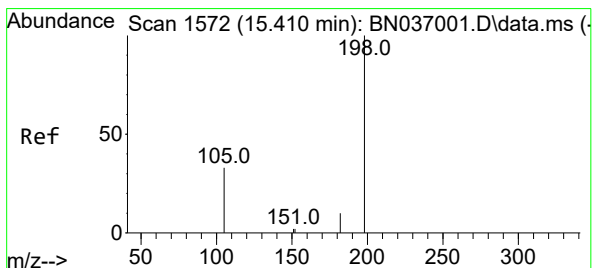
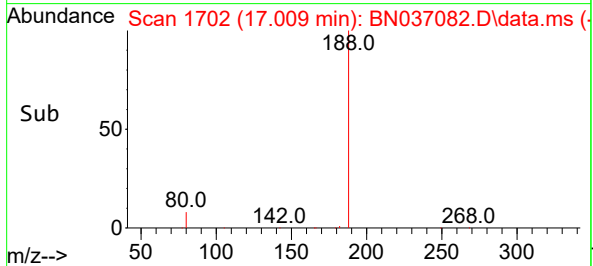
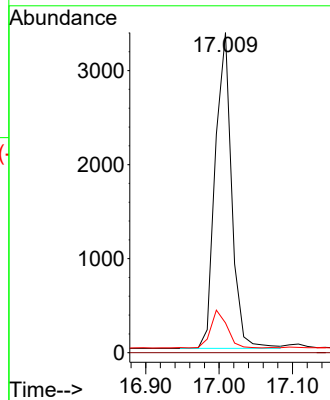
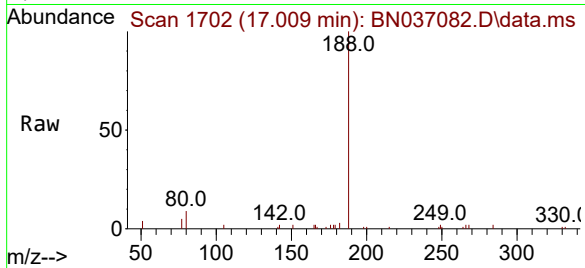
Tgt Ion:188 Resp: 5209

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 13.4 20.0#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.343 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

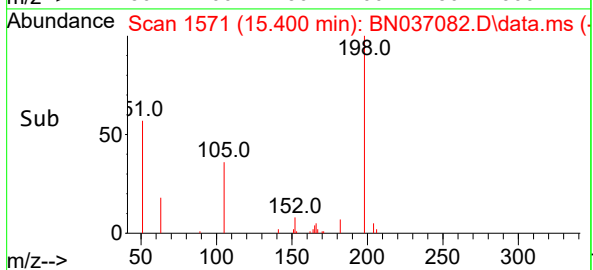
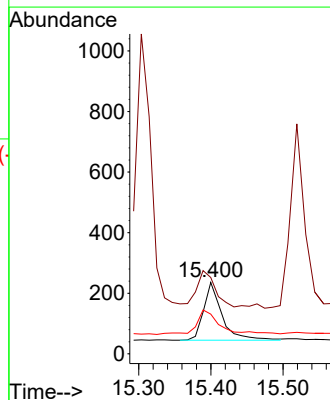
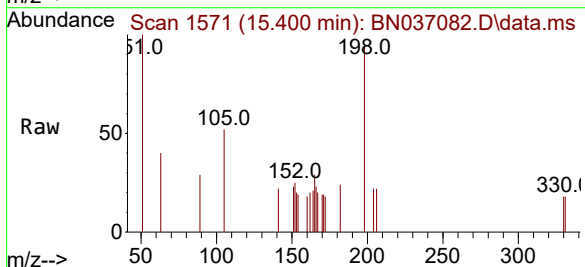
Tgt Ion:198 Resp: 340

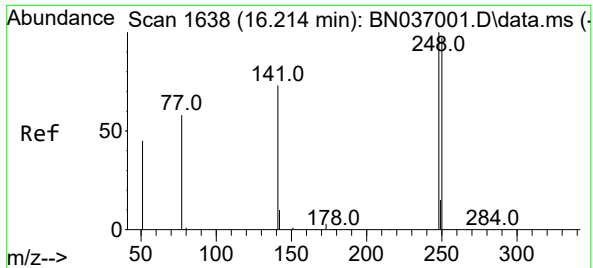
Ion Ratio Lower Upper

198 100

51 106.8 87.8 131.6

105 55.5 44.2 66.4

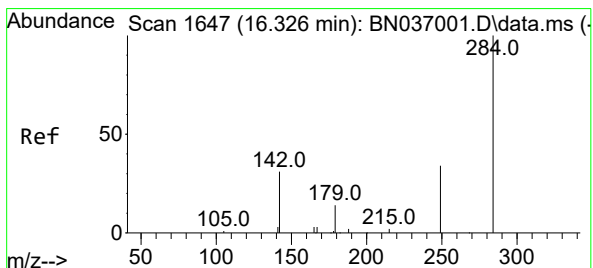
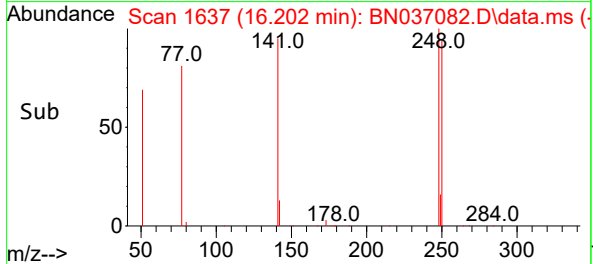
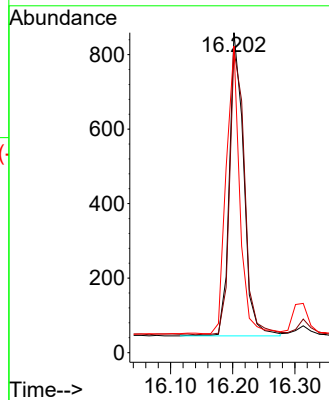
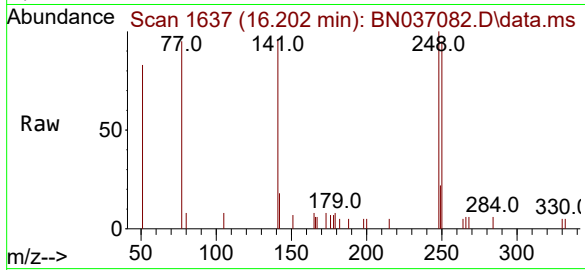




#21
4-Bromophenyl-phenylether
Concen: 0.394 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

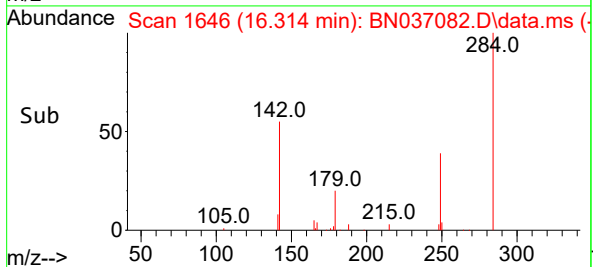
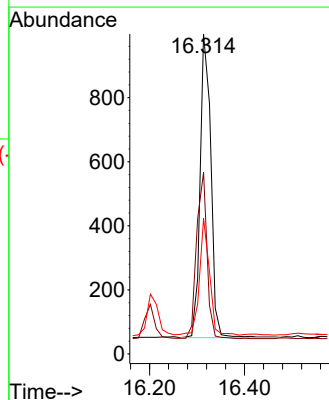
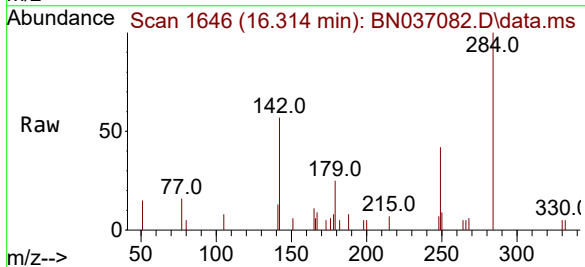
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

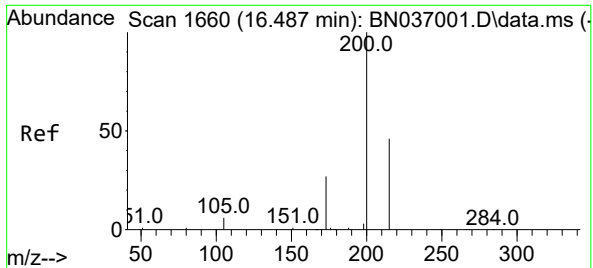
Tgt Ion:248 Resp: 1297
Ion Ratio Lower Upper
248 100
250 94.8 78.1 117.1
141 95.8 59.7 89.5#



#22
Hexachlorobenzene
Concen: 0.423 ng
RT: 16.314 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:284 Resp: 1489
Ion Ratio Lower Upper
284 100
142 52.7 41.2 61.8
249 35.7 28.7 43.1

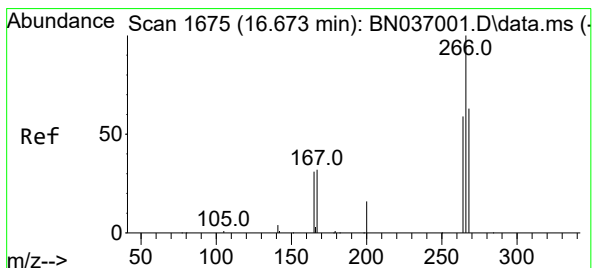
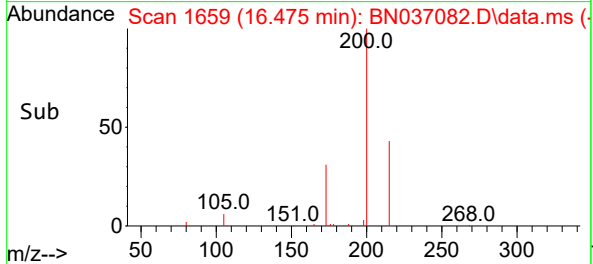
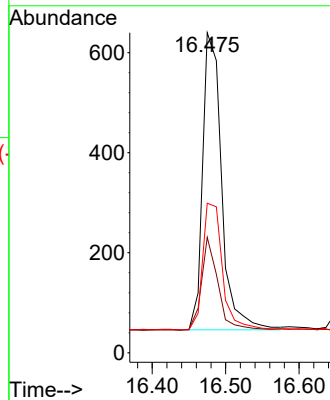
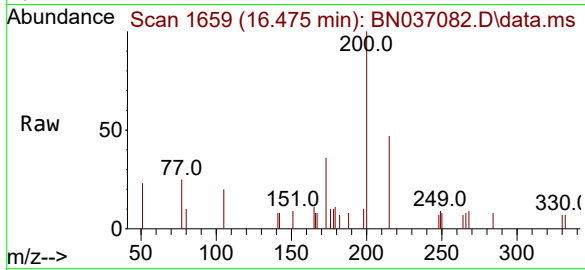




#23
Atrazine
Concen: 0.371 ng
RT: 16.475 min Scan# 1659
Delta R.T. -0.012 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

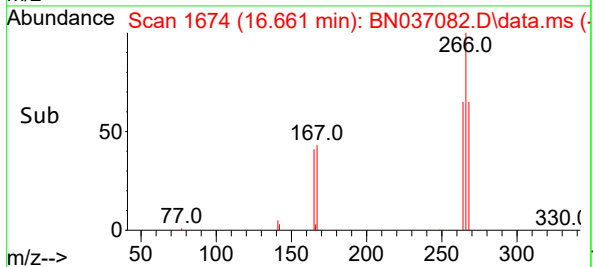
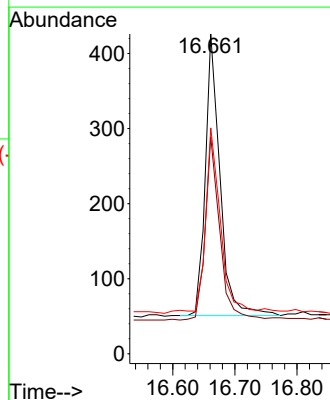
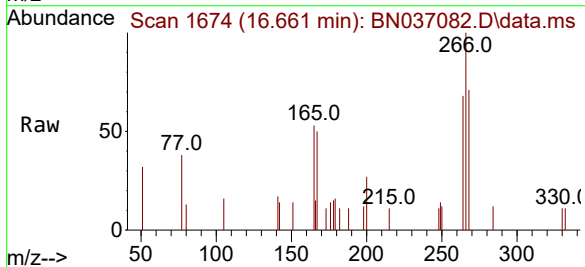
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

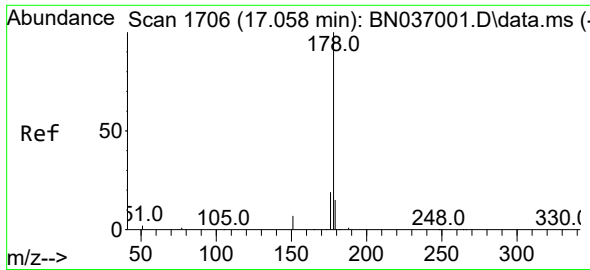
Tgt Ion:	200	Resp:	1066
Ion Ratio	Lower	Upper	
200	100		
173	36.1	25.2	37.8
215	46.7	39.3	58.9



#24
Pentachlorophenol
Concen: 0.317 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:	266	Resp:	615
Ion Ratio	Lower	Upper	
266	100		
264	66.0	47.9	71.9
268	67.2	50.0	75.0

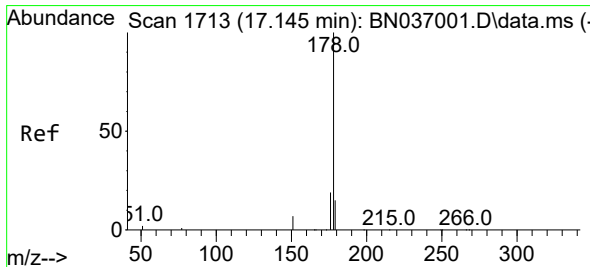
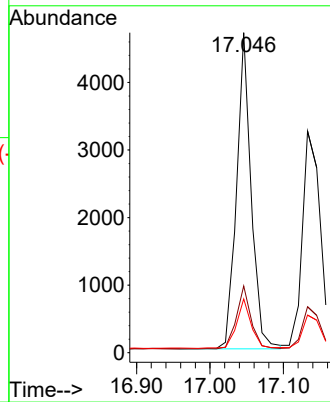
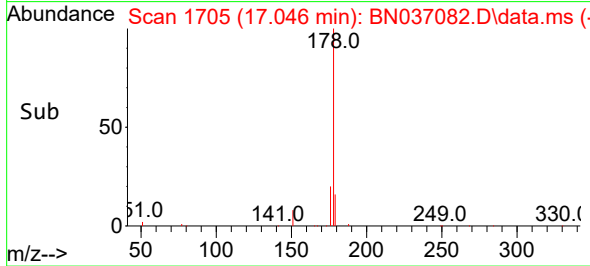
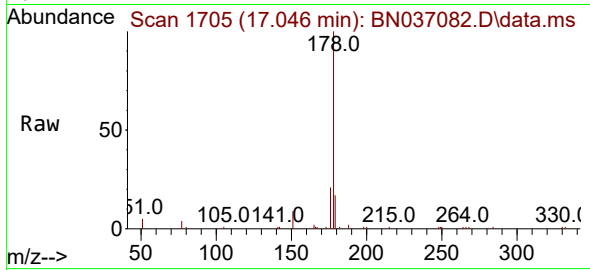




#25
Phenanthrene
Concen: 0.379 ng
RT: 17.046 min Scan# 1711
Delta R.T. -0.012 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

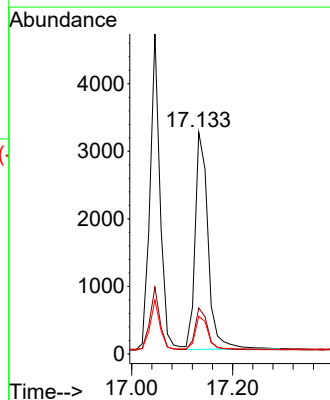
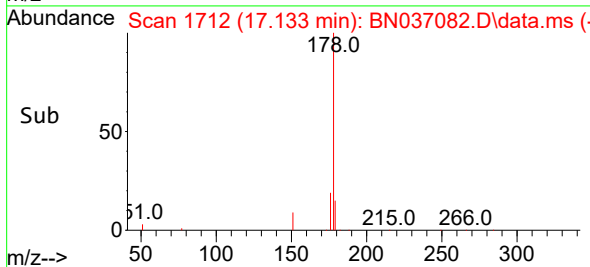
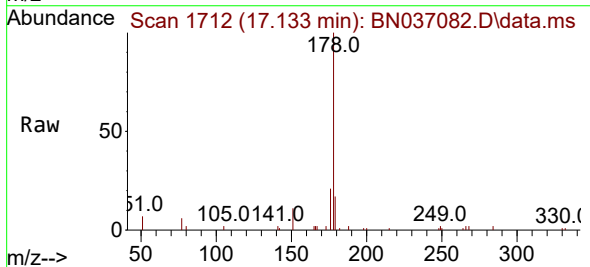
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

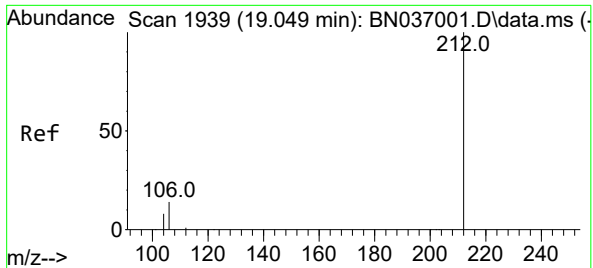
Tgt Ion:178 Resp: 6451
Ion Ratio Lower Upper
178 100
176 20.0 15.7 23.5
179 15.5 12.2 18.2



#26
Anthracene
Concen: 0.370 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:178 Resp: 5733
Ion Ratio Lower Upper
178 100
176 19.3 15.0 22.6
179 15.5 12.3 18.5

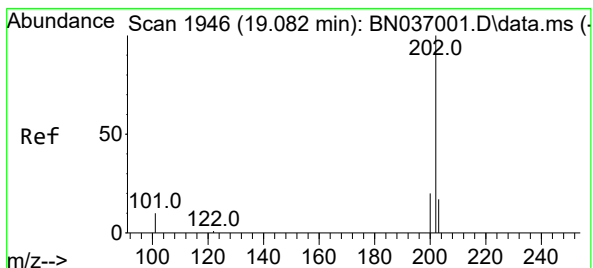
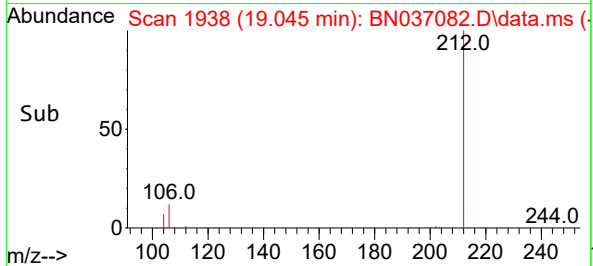
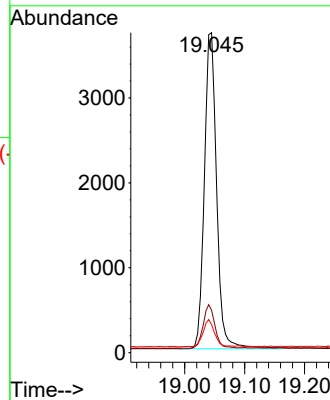
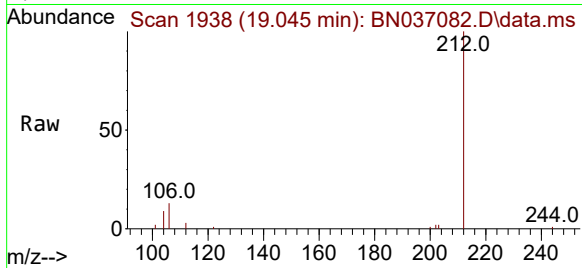




#27
Fluoranthene-d10
Concen: 0.371 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.005 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

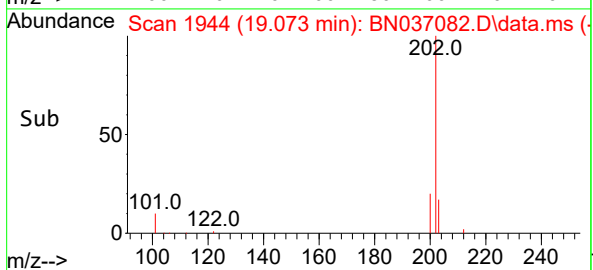
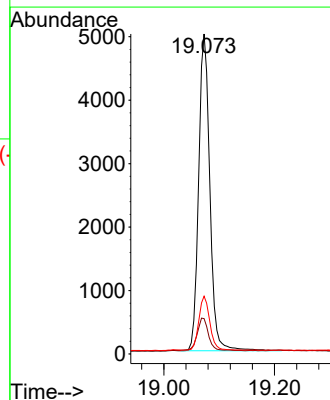
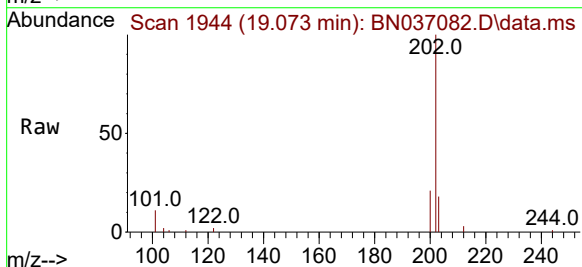
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

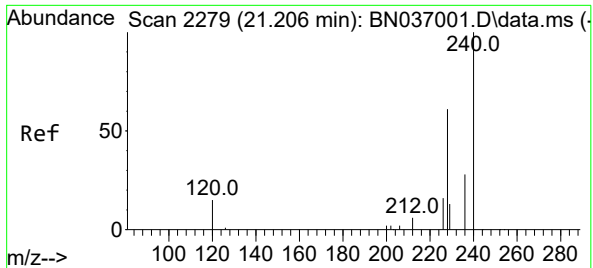
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.2	11.3	16.9
104	8.1	6.7	10.1



#28
Fluoranthene
Concen: 0.346 ng
RT: 19.073 min Scan# 1944
Delta R.T. -0.009 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.9	8.9	13.3
203	16.7	13.8	20.8

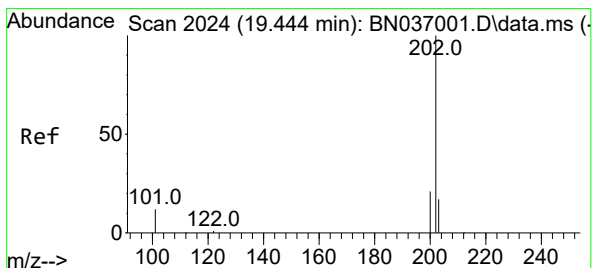
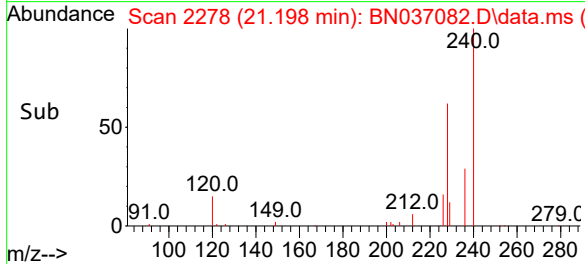
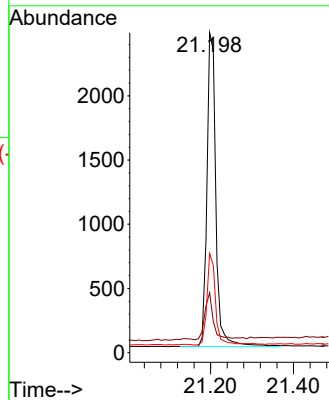
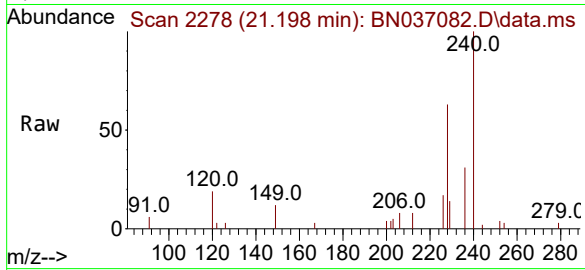




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

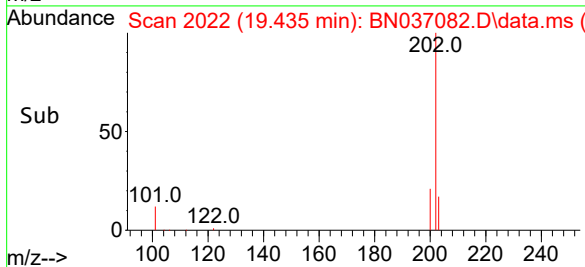
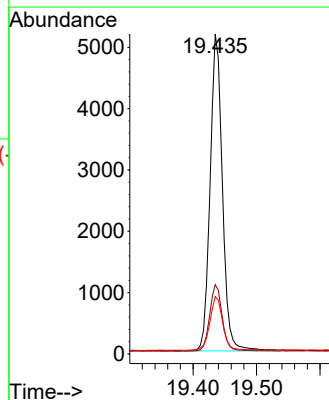
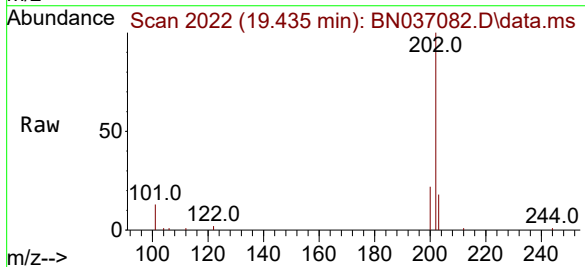
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

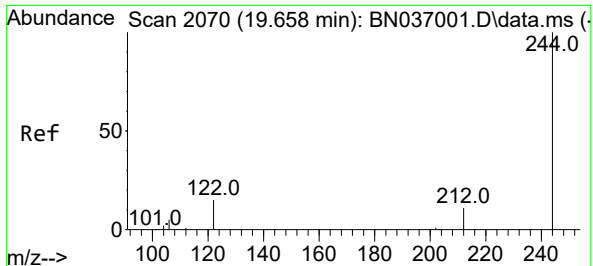
Tgt Ion:240 Resp: 3682
Ion Ratio Lower Upper
240 100
120 18.7 15.1 22.7
236 31.0 24.0 36.0



#30
Pyrene
Concen: 0.442 ng
RT: 19.435 min Scan# 2022
Delta R.T. -0.009 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:202 Resp: 6958
Ion Ratio Lower Upper
202 100
200 21.4 17.1 25.7
203 17.8 14.2 21.4





#31

Terphenyl-d14

Concen: 0.448 ng

RT: 19.649 min Scan# 2068

Delta R.T. -0.009 min

Lab File: BN037082.D

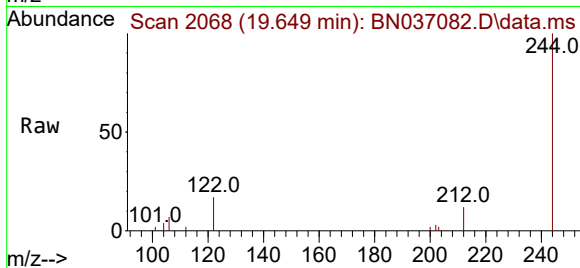
Acq: 20 May 2025 19:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



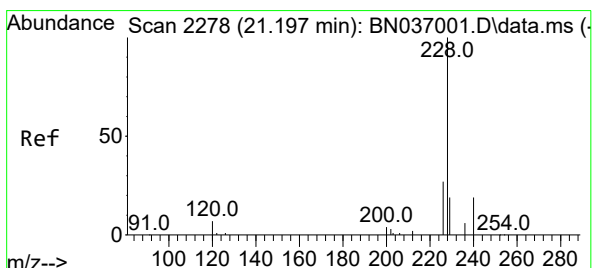
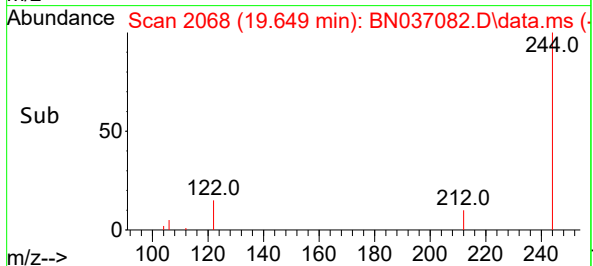
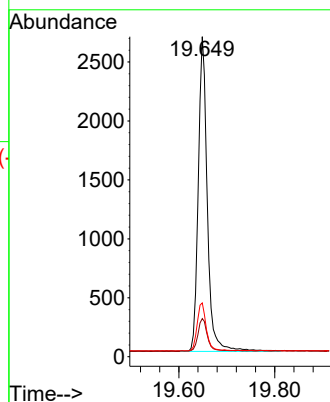
Tgt Ion:244 Resp: 3525

Ion Ratio Lower Upper

244 100

212 11.9 9.7 14.5

122 16.8 13.4 20.0



#32

Benzo(a)anthracene

Concen: 0.369 ng

RT: 21.189 min Scan# 2277

Delta R.T. -0.009 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

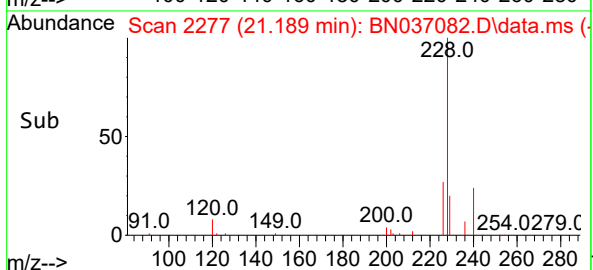
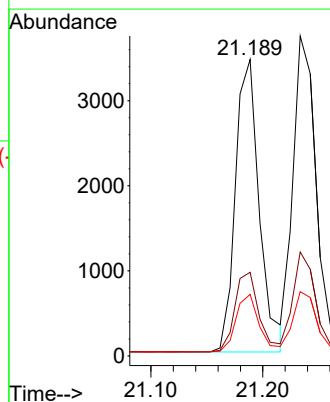
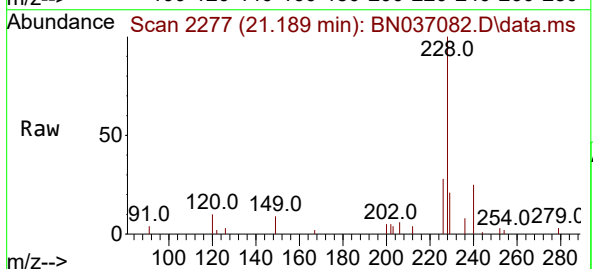
Tgt Ion:228 Resp: 5116

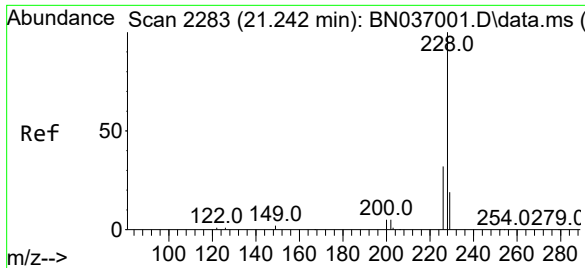
Ion Ratio Lower Upper

228 100

226 28.2 22.2 33.4

229 20.8 16.0 24.0

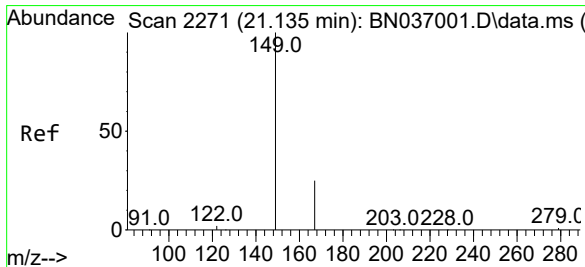
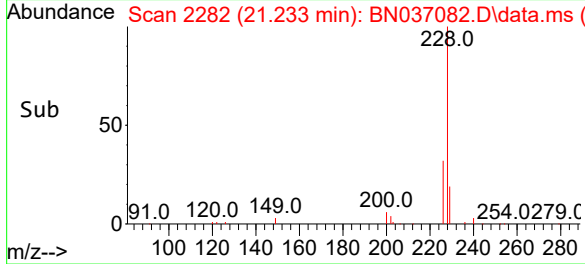
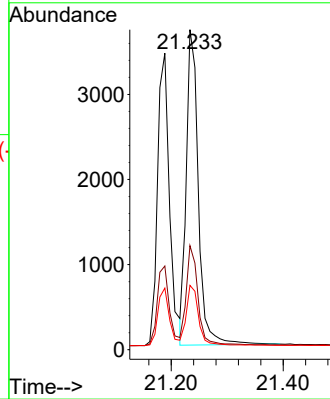
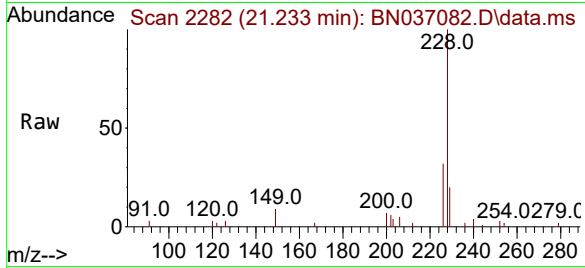




#33
Chrysene
Concen: 0.380 ng
RT: 21.233 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

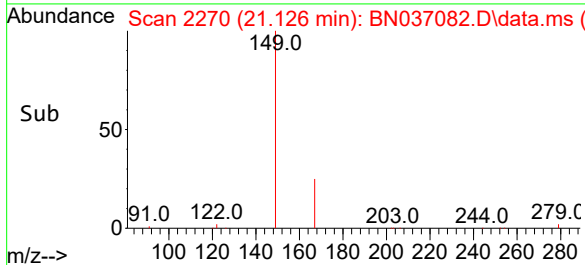
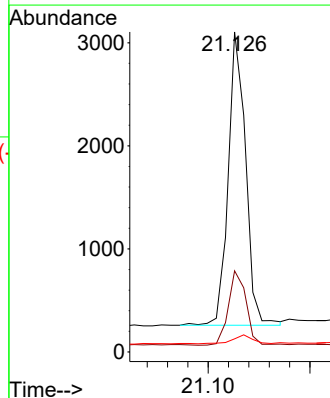
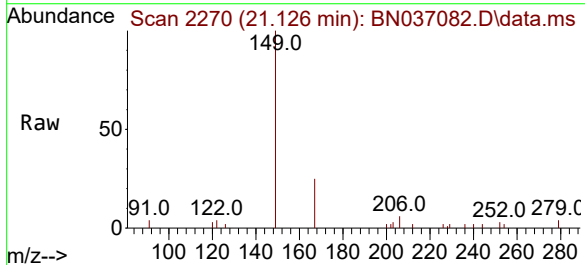
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

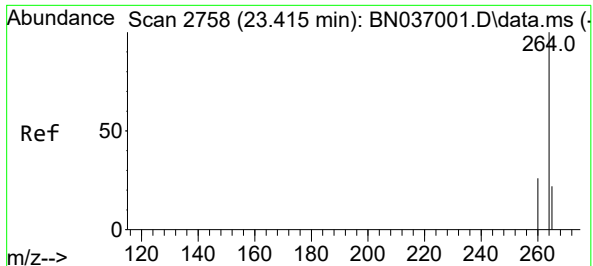
Tgt Ion:	228	Resp:	5565
Ion Ratio	Lower	Upper	
228	100		
226	32.5	26.3	39.5
229	20.1	16.2	24.2



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.396 ng
RT: 21.126 min Scan# 2270
Delta R.T. -0.009 min
Lab File: BN037082.D
Acq: 20 May 2025 19:59

Tgt Ion:	149	Resp:	3381
Ion Ratio	Lower	Upper	
149	100		
167	25.9	20.6	30.8
279	3.3	2.6	3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.404 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

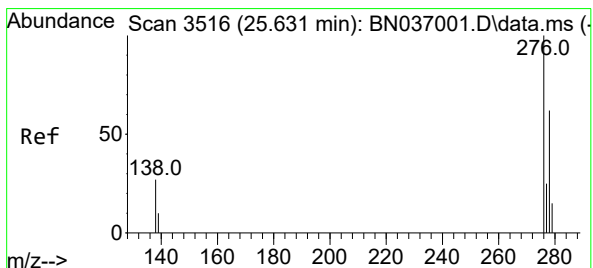
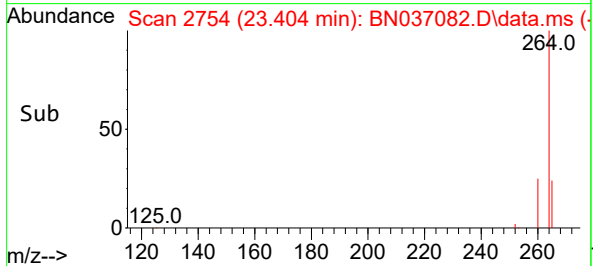
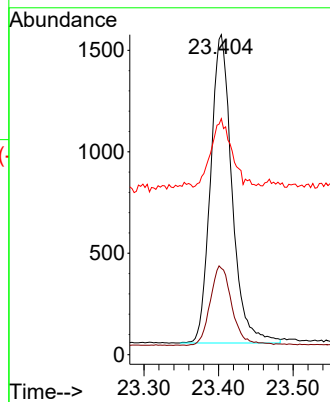
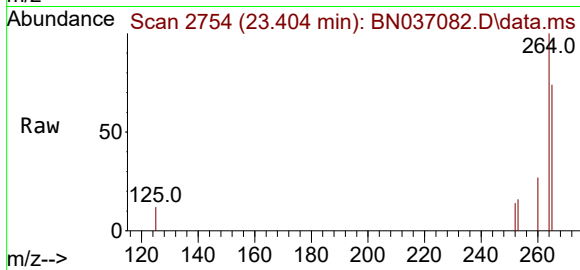
Tgt Ion:264 Resp: 3032

Ion Ratio Lower Upper

264 100

260 27.0 21.9 32.9

265 73.7 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.390 ng

RT: 25.605 min Scan# 3507

Delta R.T. -0.026 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

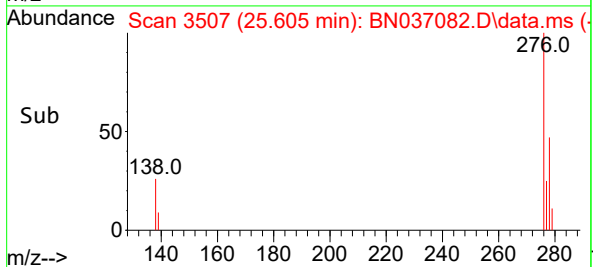
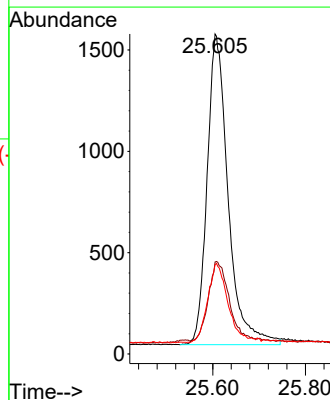
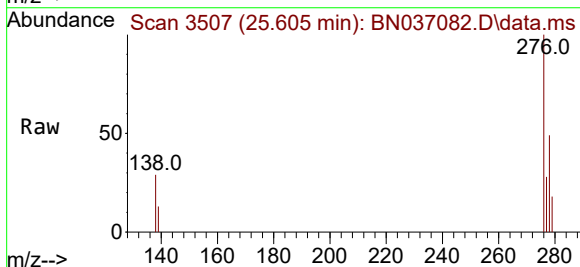
Tgt Ion:276 Resp: 4828

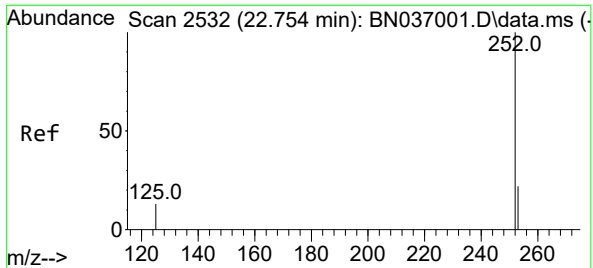
Ion Ratio Lower Upper

276 100

138 25.4 22.7 34.1

277 24.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 22.743 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

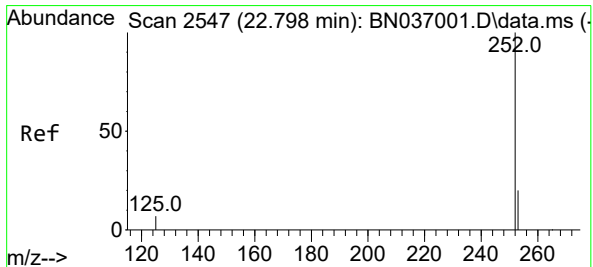
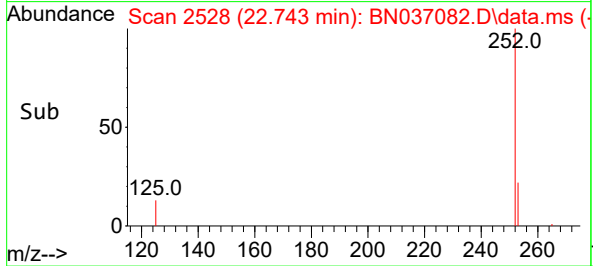
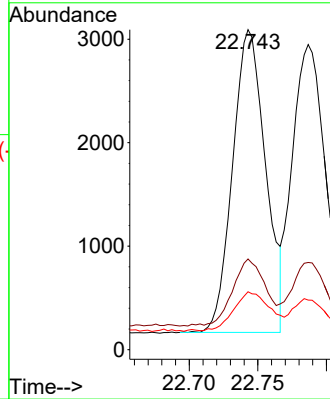
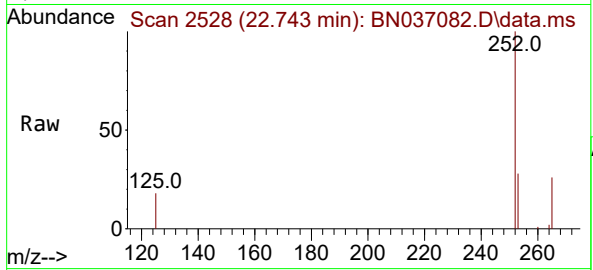
Tgt Ion:252 Resp: 4891

Ion Ratio Lower Upper

252 100

253 28.4 21.8 32.6

125 18.1 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 22.787 min Scan# 2543

Delta R.T. -0.012 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

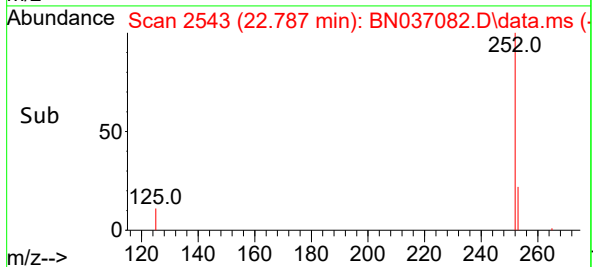
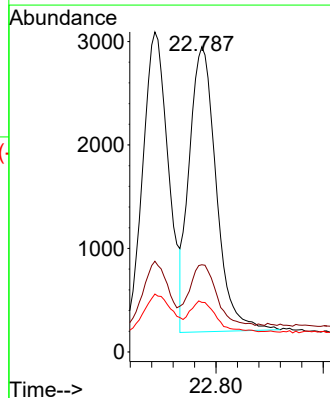
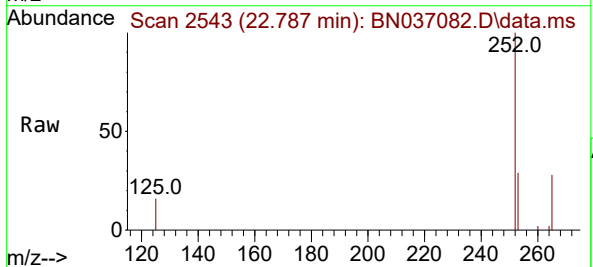
Tgt Ion:252 Resp: 4818

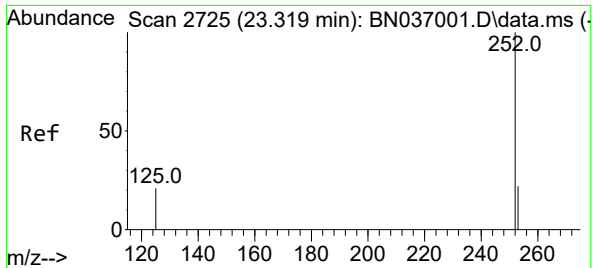
Ion Ratio Lower Upper

252 100

253 28.6 21.4 32.2

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.377 ng

RT: 23.307 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

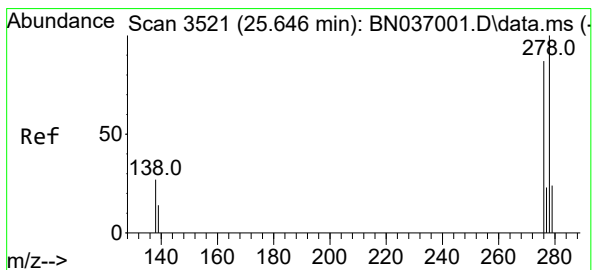
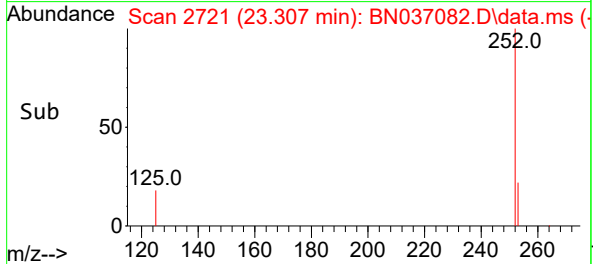
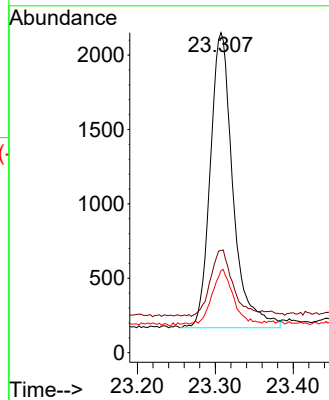
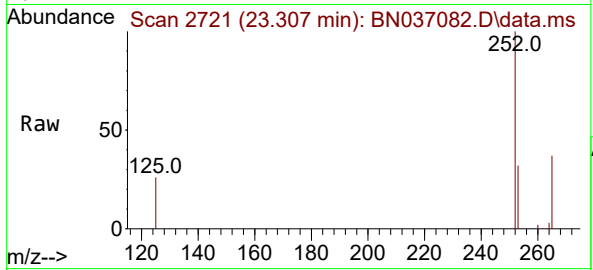
Tgt Ion:252 Resp: 4022

Ion Ratio Lower Upper

252 100

253 31.9 23.8 35.6

125 25.6 21.8 32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.382 ng

RT: 25.623 min Scan# 3513

Delta R.T. -0.023 min

Lab File: BN037082.D

Acq: 20 May 2025 19:59

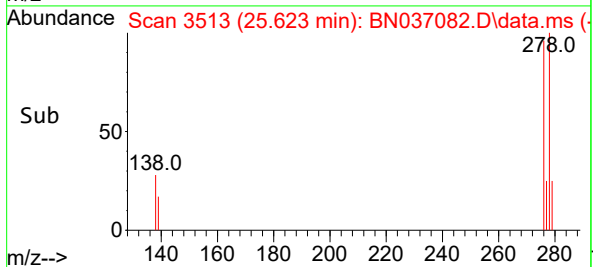
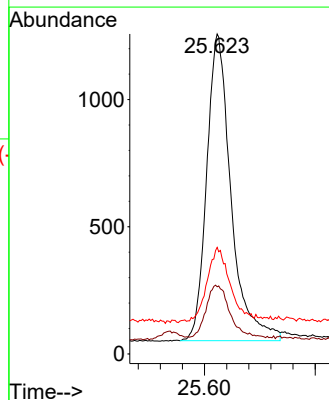
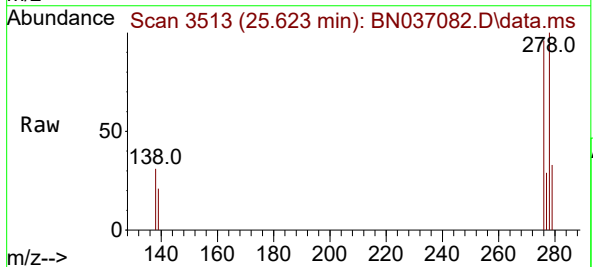
Tgt Ion:278 Resp: 3689

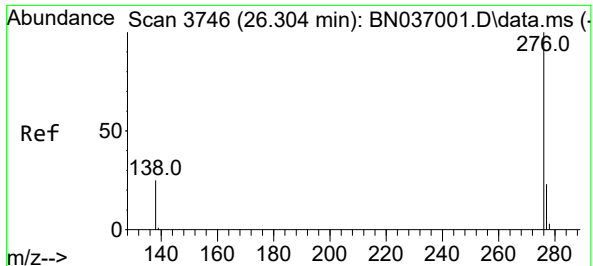
Ion Ratio Lower Upper

278 100

139 21.0 17.4 26.0

279 33.3 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.403 ng

RT: 26.281 min Scan# 31

Delta R.T. -0.023 min

Lab File: BN037082.D

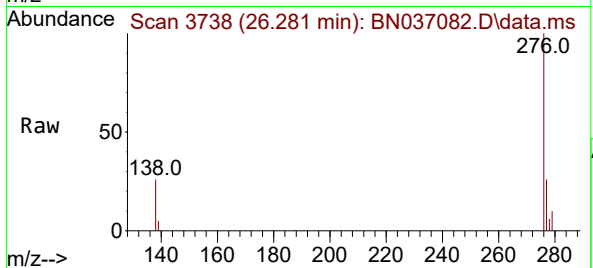
Acq: 20 May 2025 19:59

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



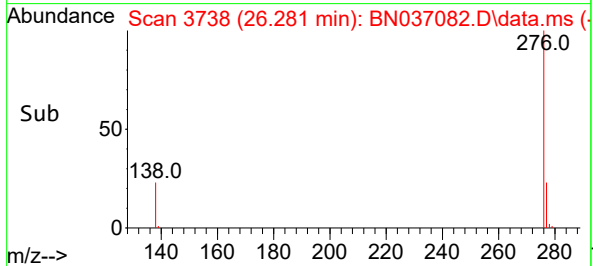
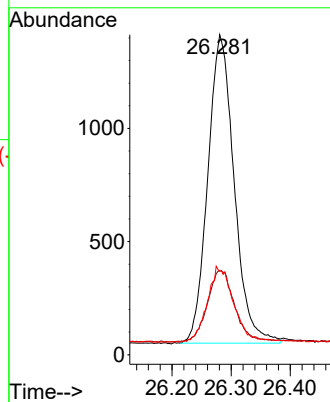
Tgt Ion:276 Resp: 4219

Ion Ratio Lower Upper

276 100

277 26.2 20.2 30.4

138 26.1 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037082.D
Acq On : 20 May 2025 19:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 21 01:39:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	103	0.00
2	1,4-Dioxane	0.491	0.473	3.7	95	0.00
3	n-Nitrosodimethylamine	1.054	1.071	-1.6	112	0.00
4 S	2-Fluorophenol	1.048	0.946	9.7	86	0.00
5 S	Phenol-d6	1.311	1.150	12.3	85	0.00
6	bis(2-Chloroethyl)ether	1.207	1.133	6.1	101	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	104	-0.01
8 S	Nitrobenzene-d5	0.436	0.417	4.4	109	-0.01
9	Naphthalene	1.182	1.116	5.6	102	-0.01
10	Hexachlorobutadiene	0.248	0.259	-4.4	111	-0.01
11 SURR	2-Methylnaphthalene-d10	0.563	0.581	-3.2	110	-0.01
12	2-Methylnaphthalene	0.760	0.720	5.3	102	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	106	-0.01
14 S	2,4,6-Tribromophenol	0.176	0.165	6.2	99	-0.01
15 S	2-Fluorobiphenyl	1.832	1.796	2.0	101	-0.01
16	Acenaphthylene	1.947	1.819	6.6	102	-0.01
17	Acenaphthene	1.272	1.195	6.1	102	-0.01
18	Fluorene	1.669	1.576	5.6	103	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
20	4,6-Dinitro-2-methylphenol	0.090	0.065	27.8#	93	-0.01
21	4-Bromophenyl-phenylether	0.253	0.249	1.6	104	-0.01
22	Hexachlorobenzene	0.270	0.286	-5.9	106	-0.01
23	Atrazine	0.220	0.205	6.8	101	-0.01
24	Pentachlorophenol	0.149	0.118	20.8	87	-0.01
25	Phenanthrene	1.307	1.238	5.3	100	-0.01
26	Anthracene	1.190	1.101	7.5	98	-0.01
27 SURR	Fluoranthene-d10	1.097	1.017	7.3	98	0.00
28	Fluoranthene	1.562	1.350	13.6	94	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	83	0.00
30	Pyrene	1.711	1.890	-10.5	90	0.00
31 S	Terphenyl-d14	0.856	0.957	-11.8	91	0.00
32	Benzo(a)anthracene	1.506	1.389	7.8	77	0.00
33	Chrysene	1.593	1.511	5.1	77	0.00
34	Bis(2-ethylhexyl)phthalate	0.927	0.918	1.0	84	0.00
35 I	Perylene-d12	1.000	1.000	0.0	67	-0.01
36	Indeno(1,2,3-cd)pyrene	1.634	1.592	2.6	65	-0.03
37	Benzo(b)fluoranthene	1.659	1.613	2.8	68	-0.01
38	Benzo(k)fluoranthene	1.639	1.589	3.1	65	-0.01
39 C	Benzo(a)pyrene	1.407	1.327	5.7	64	-0.01
40	Dibenzo(a,h)anthracene	1.272	1.217	4.3	64	-0.02
41	Benzo(g,h,i)perylene	1.383	1.391	-0.6	66	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037082.D
Acq On : 20 May 2025 19:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: May 21 01:39:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 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	103	0.00
2	1,4-Dioxane	0.400	0.385	3.8	95	0.00
3	n-Nitrosodimethylamine	0.400	0.406	-1.5	112	0.00
4 S	2-Fluorophenol	0.400	0.361	9.8	86	0.00
5 S	Phenol-d6	0.400	0.351	12.3	85	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	101	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	104	-0.01
8 S	Nitrobenzene-d5	0.400	0.383	4.3	109	-0.01
9	Naphthalene	0.400	0.378	5.5	102	-0.01
10	Hexachlorobutadiene	0.400	0.418	-4.5	111	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.413	-3.2	110	-0.01
12	2-Methylnaphthalene	0.400	0.379	5.3	102	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	106	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.375	6.3	99	-0.01
15 S	2-Fluorobiphenyl	0.400	0.392	2.0	101	-0.01
16	Acenaphthylene	0.400	0.374	6.5	102	-0.01
17	Acenaphthene	0.400	0.376	6.0	102	-0.01
18	Fluorene	0.400	0.378	5.5	103	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	104	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.343	14.2	93	-0.01
21	4-Bromophenyl-phenylether	0.400	0.394	1.5	104	-0.01
22	Hexachlorobenzene	0.400	0.423	-5.7	106	-0.01
23	Atrazine	0.400	0.371	7.3	101	-0.01
24	Pentachlorophenol	0.400	0.317	20.8	87	-0.01
25	Phenanthrene	0.400	0.379	5.3	100	-0.01
26	Anthracene	0.400	0.370	7.5	98	-0.01
27 SURR	Fluoranthene-d10	0.400	0.371	7.3	98	0.00
28	Fluoranthene	0.400	0.346	13.5	94	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	83	0.00
30	Pyrene	0.400	0.442	-10.5	90	0.00
31 S	Terphenyl-d14	0.400	0.448	-12.0	91	0.00
32	Benzo(a)anthracene	0.400	0.369	7.8	77	0.00
33	Chrysene	0.400	0.380	5.0	77	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.396	1.0	84	0.00
35 I	Perylene-d12	0.400	0.400	0.0	67	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.390	2.5	65	-0.03
37	Benzo(b)fluoranthene	0.400	0.389	2.8	68	-0.01
38	Benzo(k)fluoranthene	0.400	0.388	3.0	65	-0.01
39 C	Benzo(a)pyrene	0.400	0.377	5.8	64	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.382	4.5	64	-0.02
41	Benzo(g,h,i)perylene	0.400	0.403	-0.8	66	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

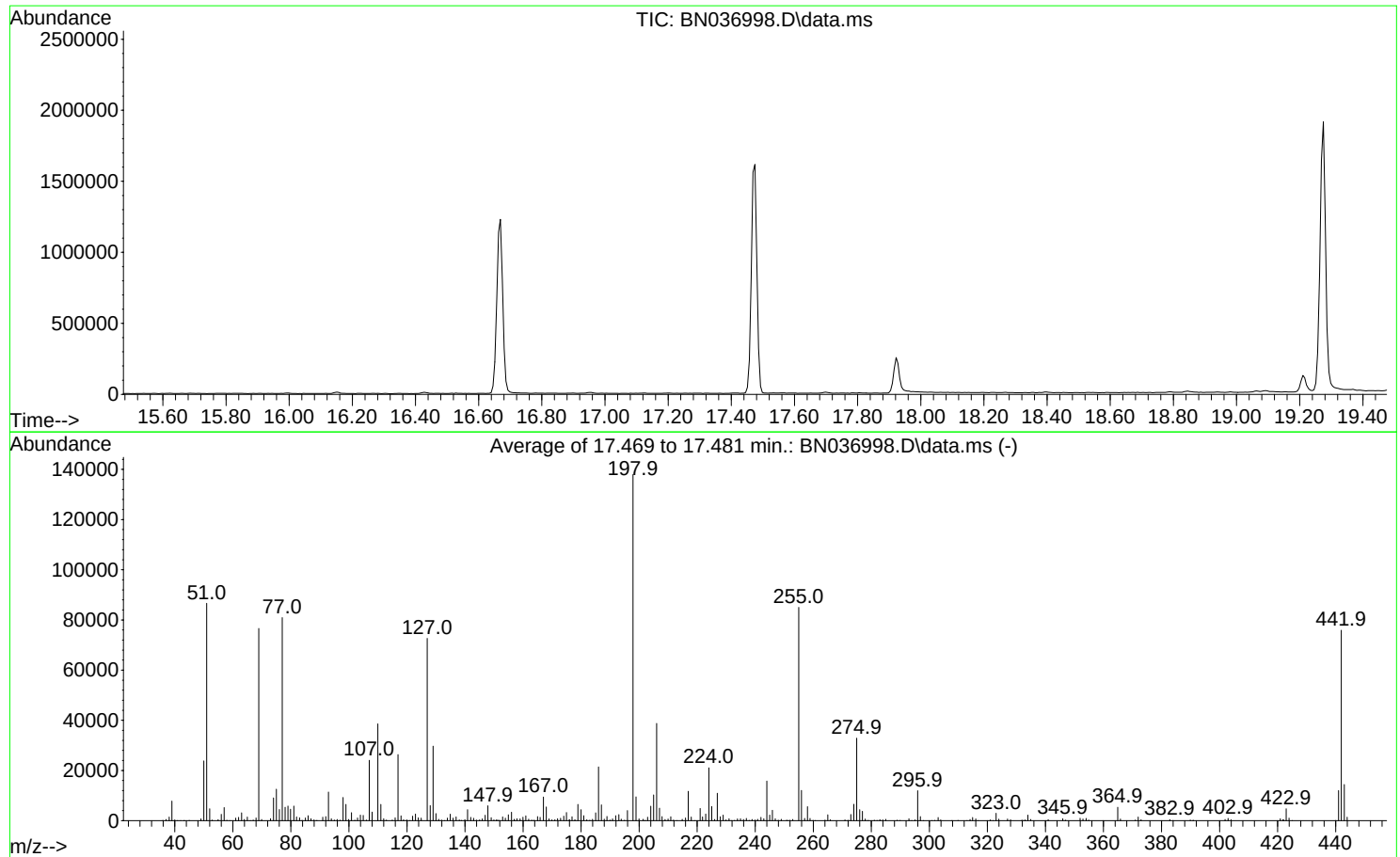
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
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-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 00:45:40 2025



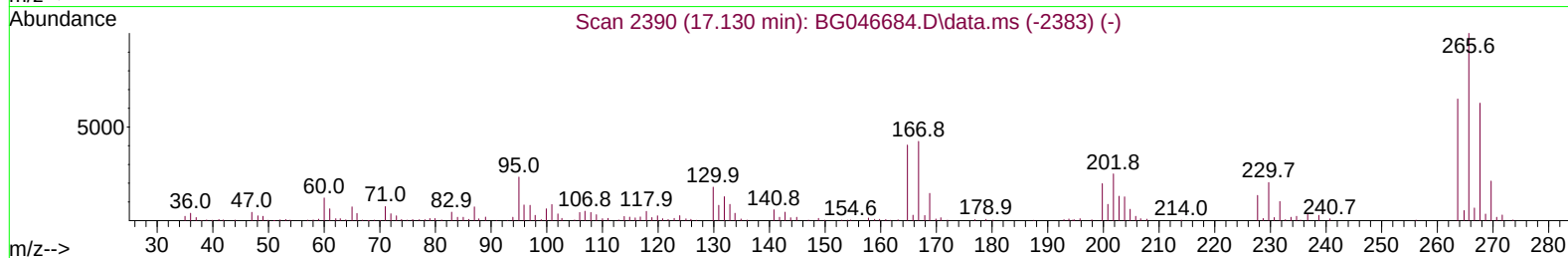
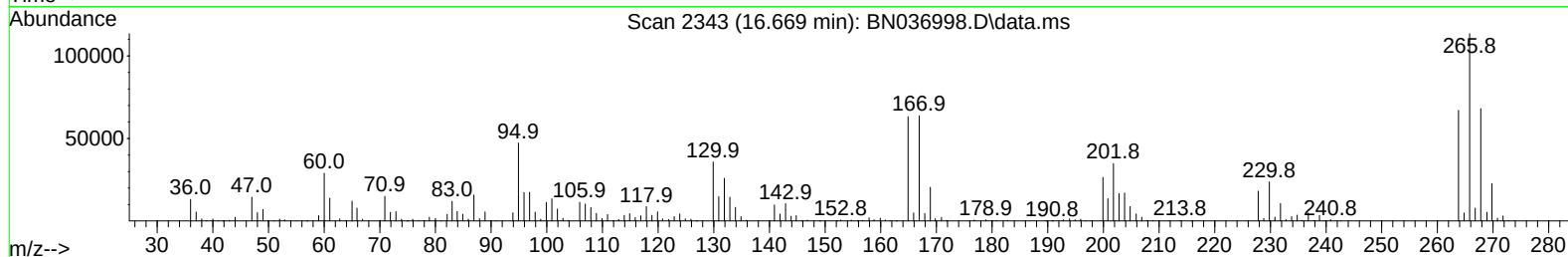
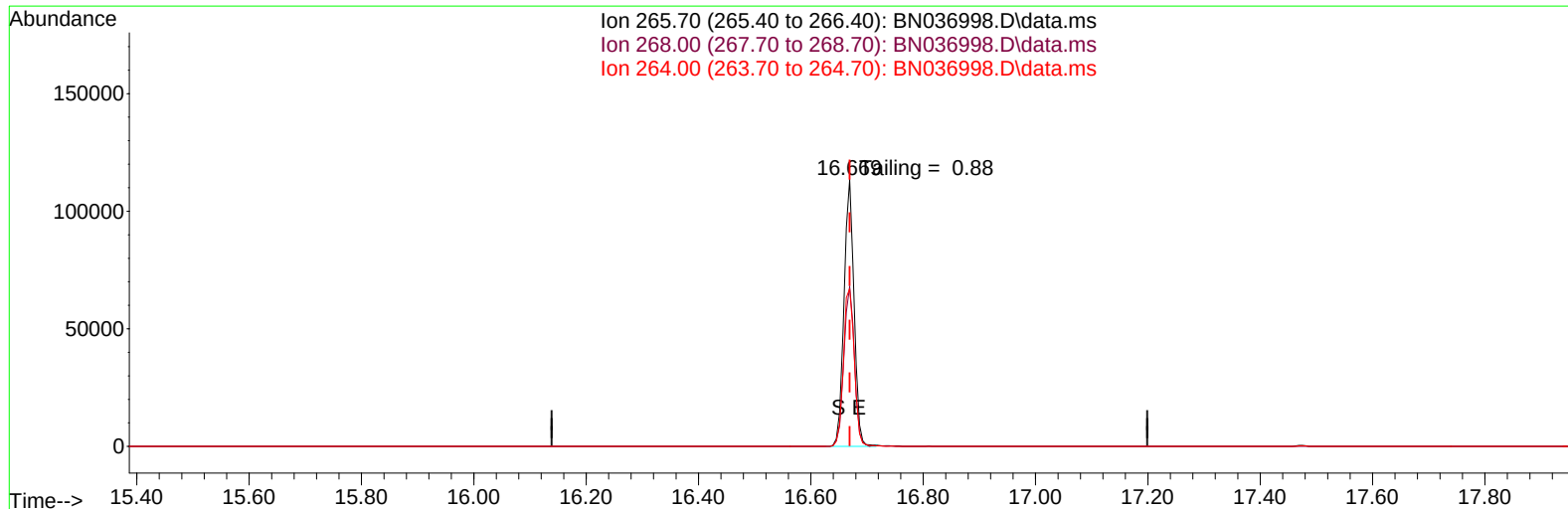
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2472

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	62.8	86619	PASS
68	69	0.00	2	1.4	1066	PASS
69	198	0.00	100	55.6	76627	PASS
70	69	0.00	2	0.6	478	PASS
127	198	10	80	52.7	72651	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	137931	PASS
199	198	5	9	6.9	9502	PASS
275	198	10	60	23.8	32893	PASS
365	198	1	100	3.9	5315	PASS
441	198	0.01	100	8.7	12010	PASS
442	442	50	100	100.0	75872	PASS
443	442	15	24	19.0	14396	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 01:22:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration



TIC: BN036998.D\data.ms

(70) Pentachlorophenol (C)

16.669min (0.000) 18563.73 ng

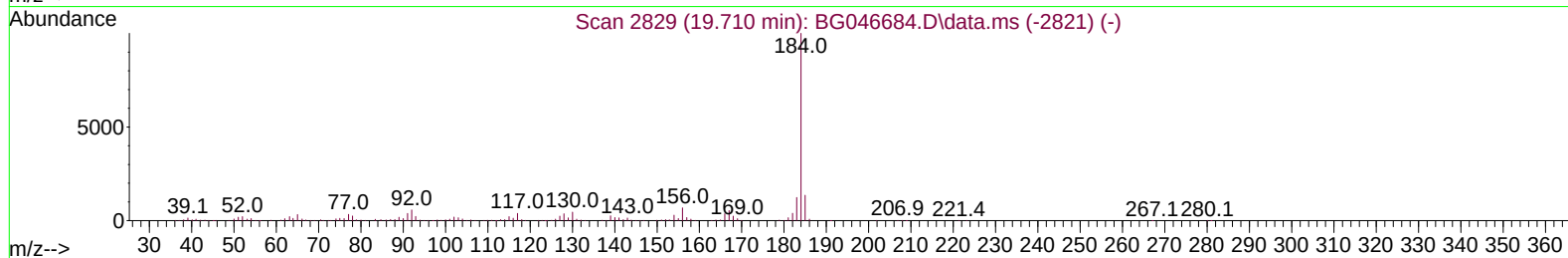
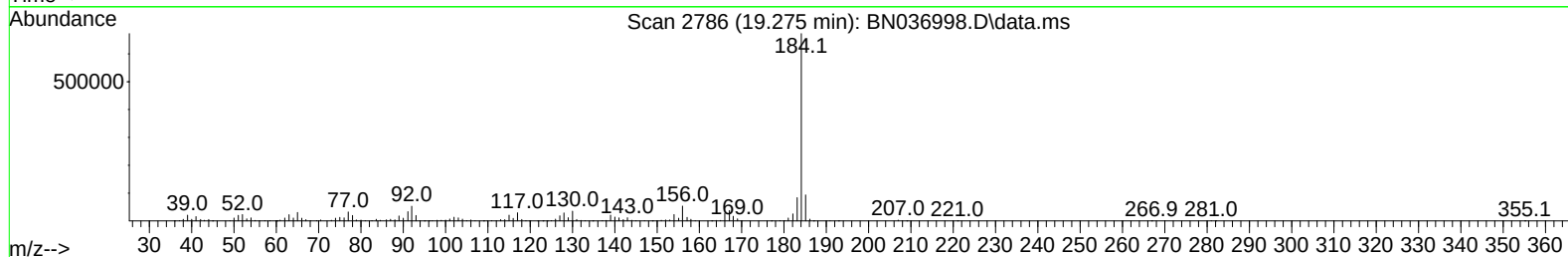
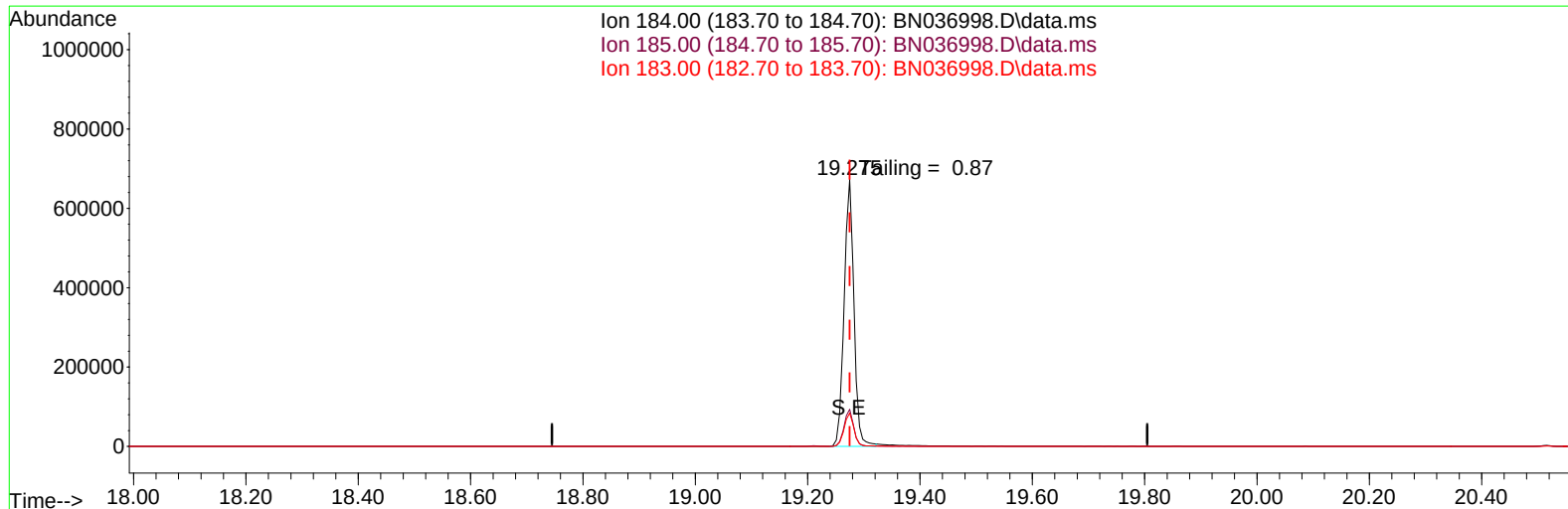
response 141750

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.06
264.00	61.60	59.13
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 01:22:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration



TIC: BN036998.D\data.ms

(77) Benzdine

19.275min (0.000) 0.00 ng

response 833154

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.89
183.00	13.20	12.48
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

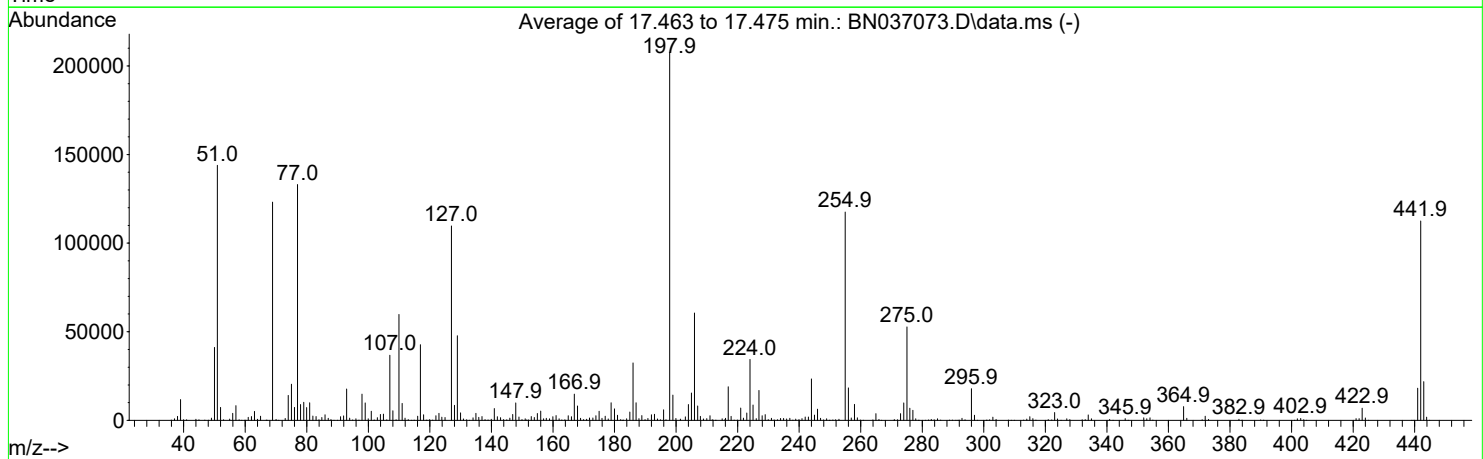
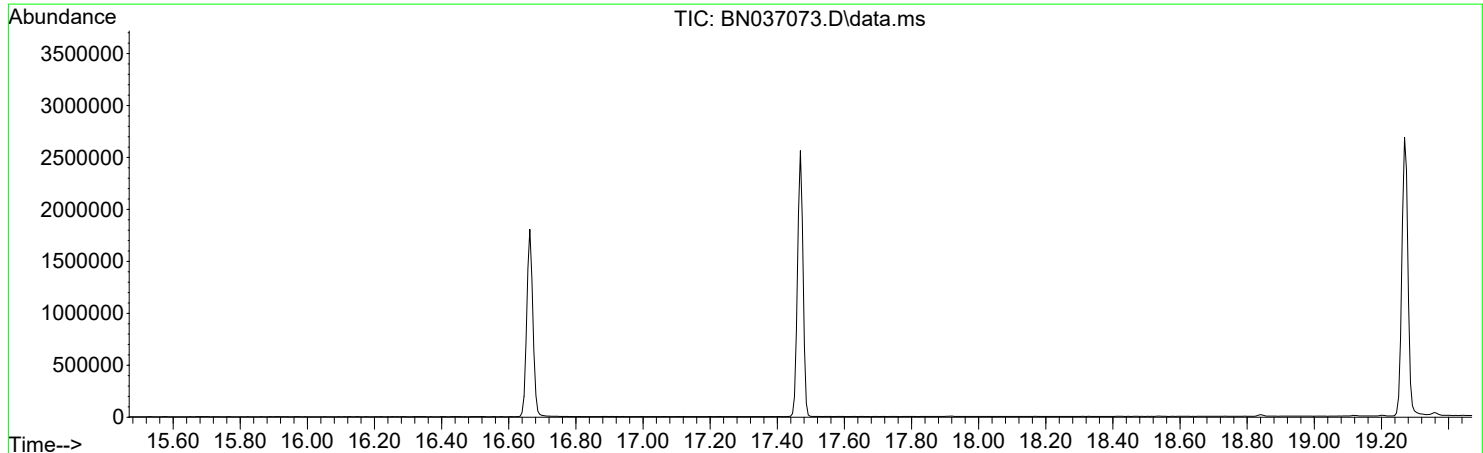
Date	Instrument Name	DFTPP Data File
5/14/2025	BNA_N	<u>BN036998.D</u>
Compound Name	Response	Retention Time
DDT	424954	20.516
DDD	27353	20.075
DDE	333	19.563
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
27686	452640	6.12

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037073.D
Acq On : 20 May 2025 14:30
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-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 11:26:32 2025



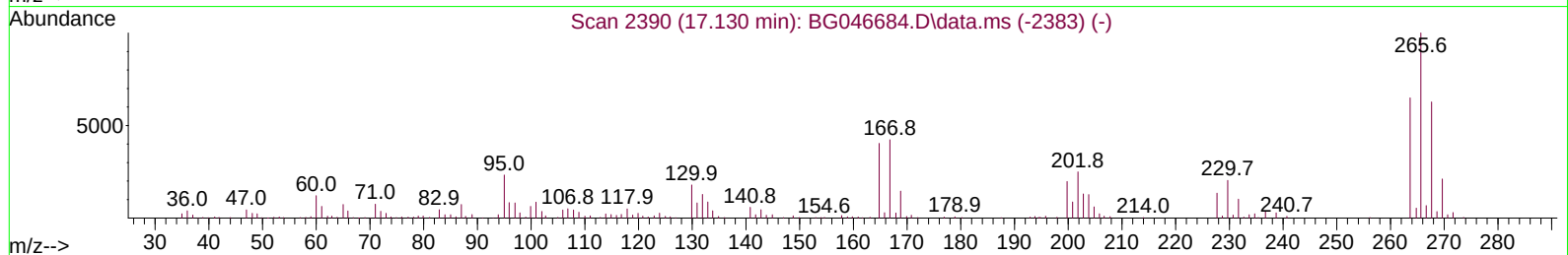
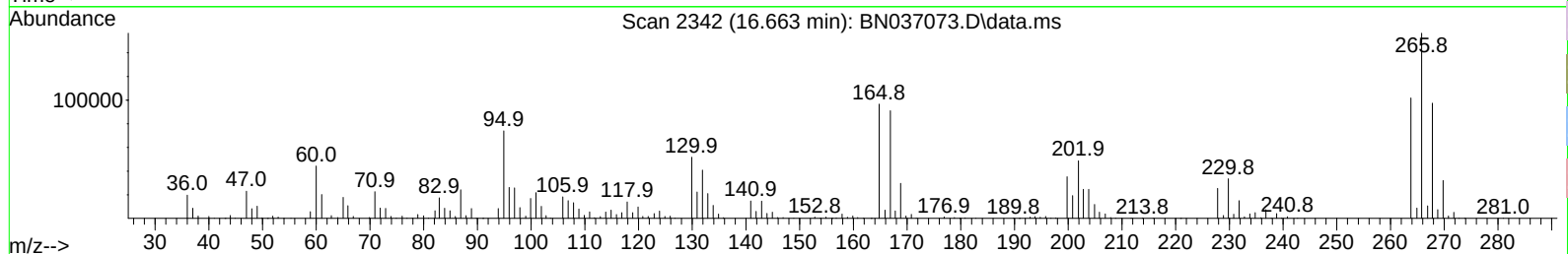
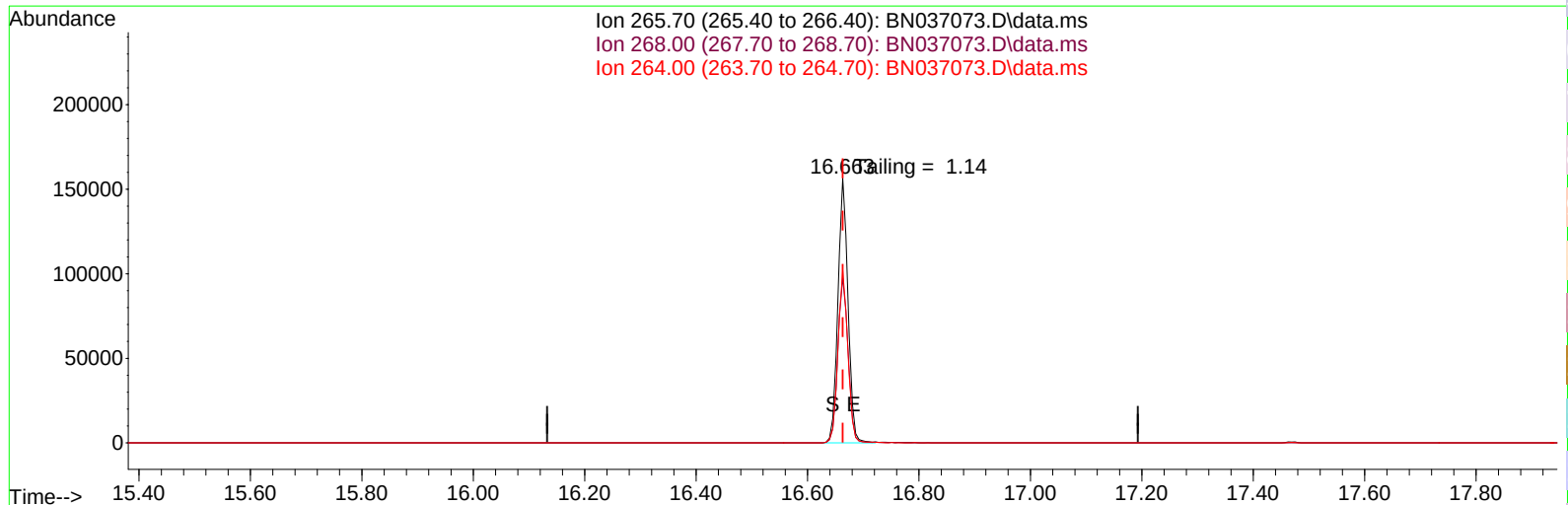
AutoFind: Scans 2478, 2479, 2480; Background Corrected with Scan 2471

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	69.3	143915	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.3	123171	PASS
70	69	0.00	2	0.4	548	PASS
127	198	10	80	52.8	109691	PASS
197	198	0.00	2	0.2	410	PASS
198	198	100	100	100.0	207573	PASS
199	198	5	9	6.9	14234	PASS
275	198	10	60	25.4	52744	PASS
365	198	1	100	3.7	7760	PASS
441	198	0.01	100	8.8	18185	PASS
442	442	50	100	100.0	112477	PASS
443	442	15	24	19.4	21852	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037073.D
Acq On : 20 May 2025 14:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 21 01:54:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 21 01:54:36 2025
Response via : Initial Calibration



TIC: BN037073.D\data.ms

(70) Pentachlorophenol (C)

16.663min (0.000) 18354.59 ng

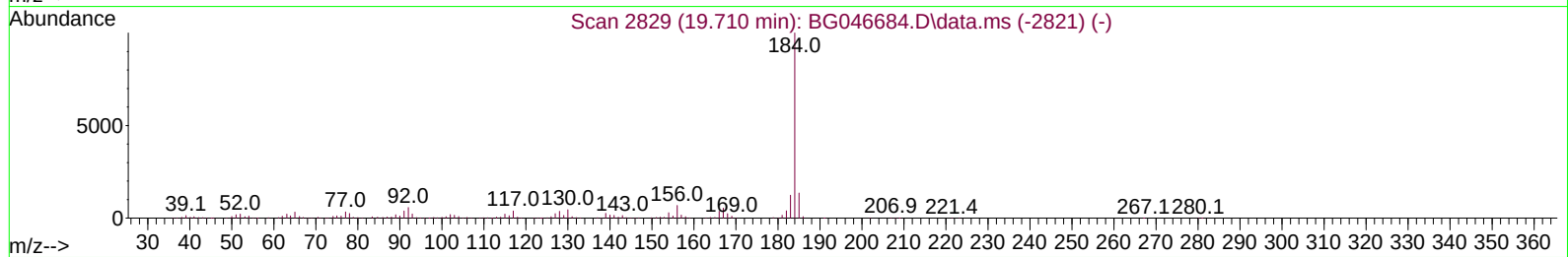
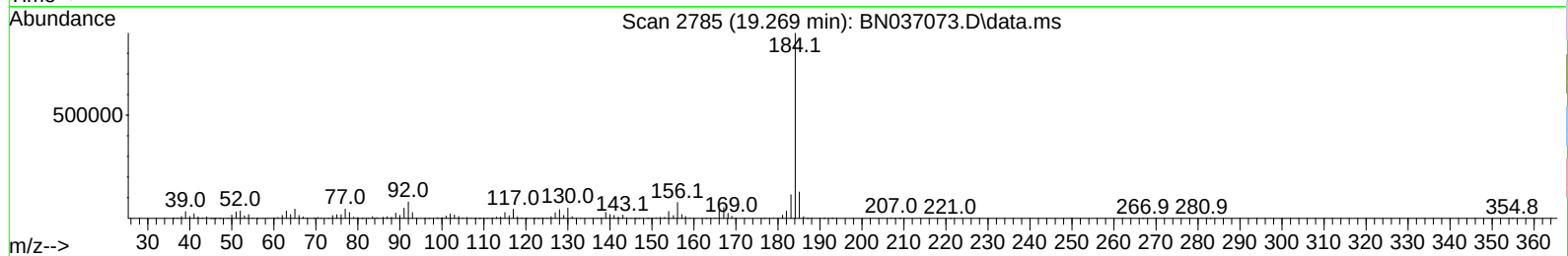
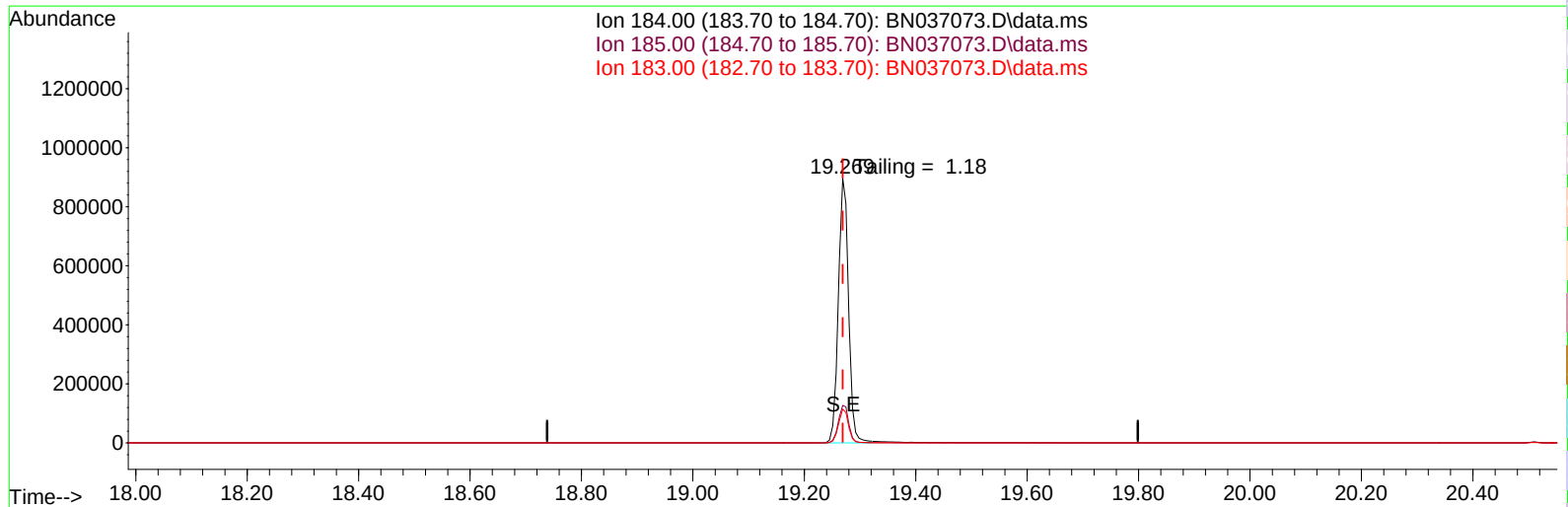
response 197914

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.23
264.00	61.60	65.03
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037073.D
Acq On : 20 May 2025 14:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 21 01:54:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 21 01:54:36 2025
Response via : Initial Calibration



TIC: BN037073.D\data.ms

(77) Benzidine

19.269min (0.000) 0.00 ng

response 1157281

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.21
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
5/21/2025	BNA_N	<u>BN037073.D</u>
Compound Name	Response	Retention Time
DDT	609749	20.51
DDD	18109	20.069
DDE	634	19.557
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
18743	628492	2.98

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168032BL	SDG No.:	Q2063
Lab Sample ID:	PB168032BL	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
BN037075.D	1	05/16/25 11:50	05/20/25 15:45	PB168032

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	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.611				
1146-65-2	Naphthalene-d8	4260	10.393				
15067-26-2	Acenaphthene-d10	2470	14.256				
1517-22-2	Phenanthrene-d10	5070	17.008				
1719-03-5	Chrysene-d12	3620	21.206				
1520-96-3	Perylene-d12	3130	23.409				

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\BN052125\
Data File : BN037075.D
Acq On : 20 May 2025 15:45
Operator : RC/JU
Sample : PB168032BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168032BL

Quant Time: May 21 01:37:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1695	0.400	ng	0.00
7) Naphthalene-d8	10.393	136	4260	0.400	ng	#-0.01
13) Acenaphthene-d10	14.256	164	2468	0.400	ng	-0.01
19) Phenanthrene-d10	17.008	188	5072	0.400	ng	# 0.00
29) Chrysene-d12	21.206	240	3622	0.400	ng	# 0.00
35) Perylene-d12	23.409	264	3128	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1576	0.355	ng	0.00
5) Phenol-d6	6.795	99	1809	0.326	ng	0.00
8) Nitrobenzene-d5	8.760	82	1493	0.322	ng	-0.01
11) 2-Methylnaphthalene-d10	11.996	152	2147	0.358	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	247	0.228	ng	0.00
15) 2-Fluorobiphenyl	12.883	172	3783	0.335	ng	0.00
27) Fluoranthene-d10	19.045	212	4700	0.338	ng	0.00
31) Terphenyl-d14	19.653	244	3216	0.415	ng	0.00

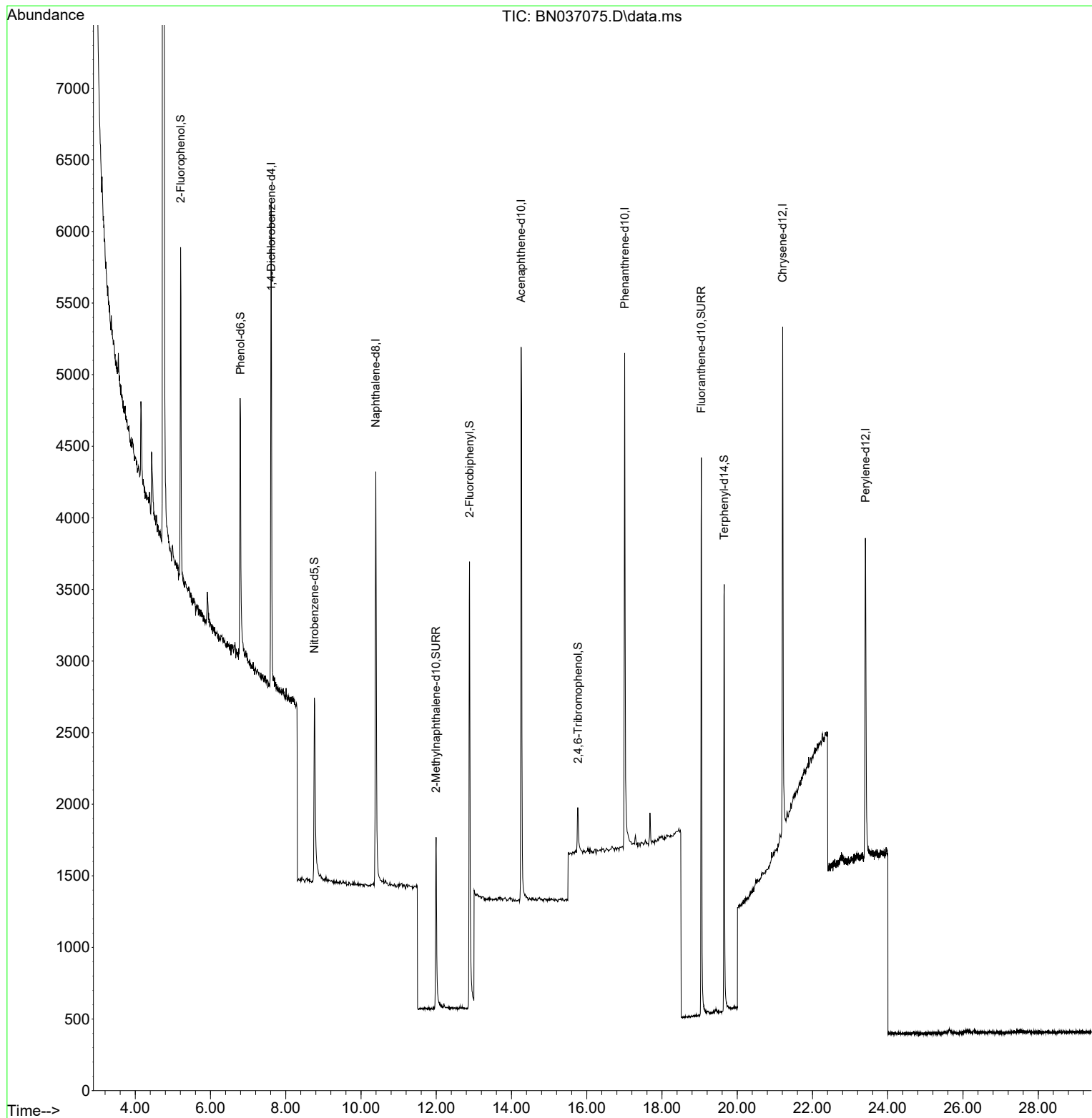
Target Compounds	Qvalue

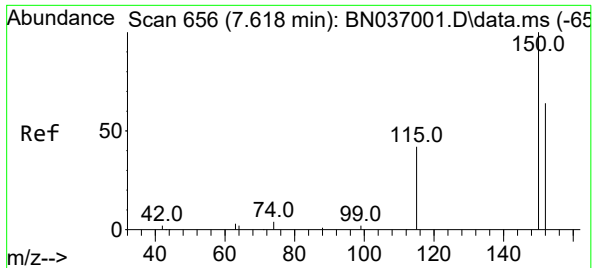
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037075.D
Acq On : 20 May 2025 15:45
Operator : RC/JU
Sample : PB168032BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168032BL

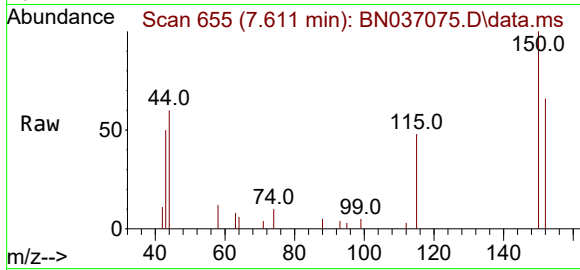
Quant Time: May 21 01:37:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



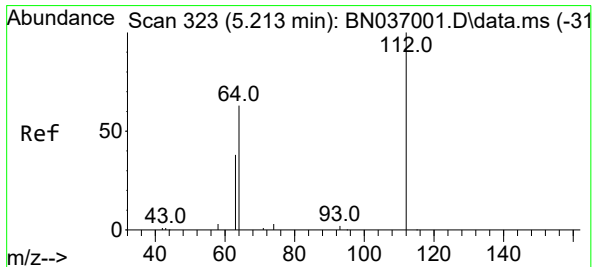
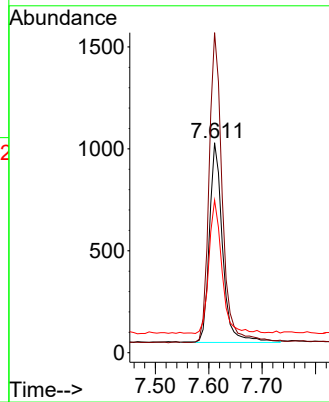
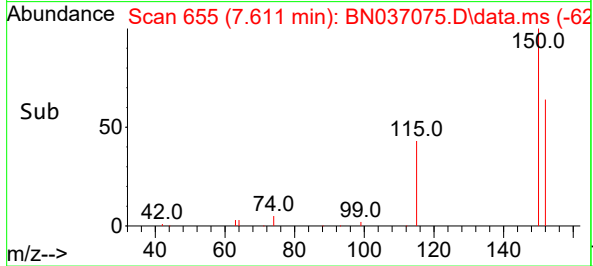


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

Instrument :
BNA_N
ClientSampleId :
PB168032BL

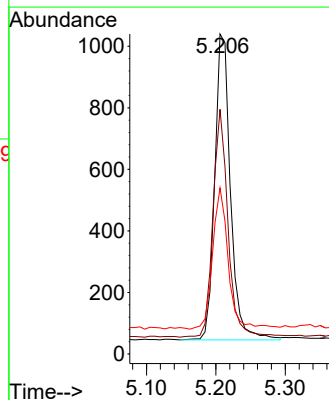
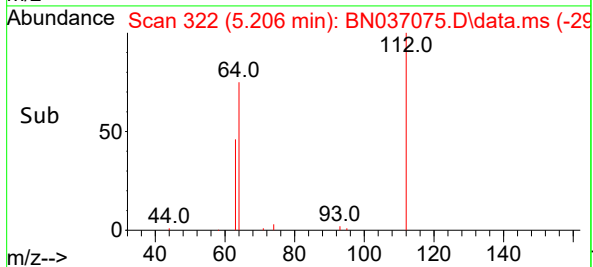
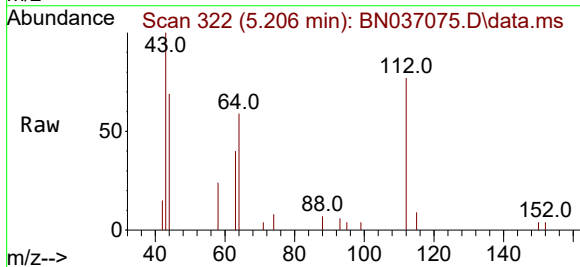


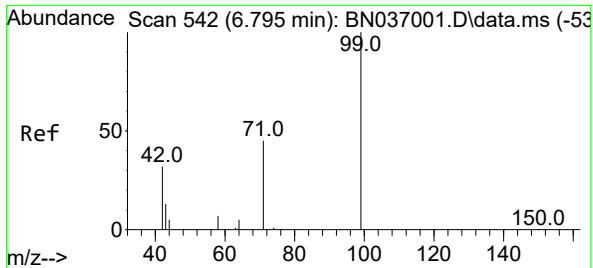
Tgt Ion:152 Resp: 1695
Ion Ratio Lower Upper
152 100
150 152.4 123.9 185.9
115 72.6 55.8 83.8



#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

Tgt Ion:112 Resp: 1576
Ion Ratio Lower Upper
112 100
64 71.6 55.7 83.5
63 45.9 34.6 51.8

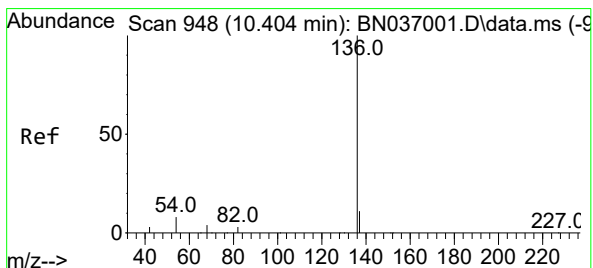
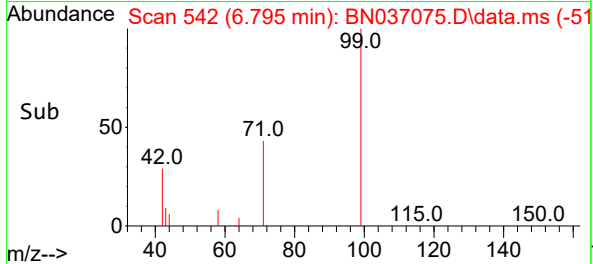
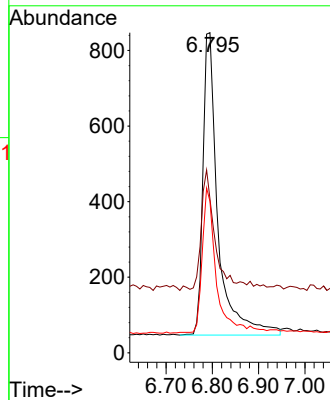
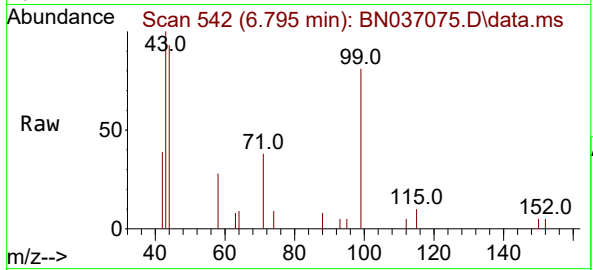




#5
Phenol-d6
Concen: 0.326 ng
RT: 6.795 min Scan# 541
Delta R.T. -0.000 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

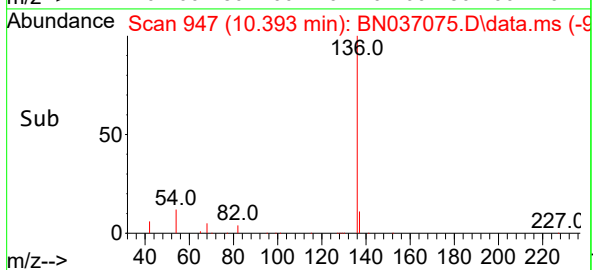
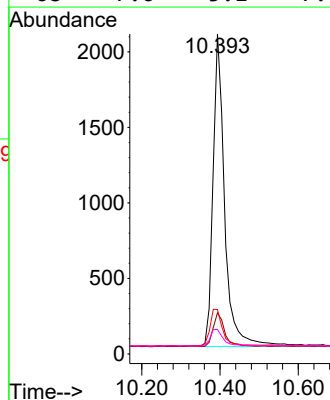
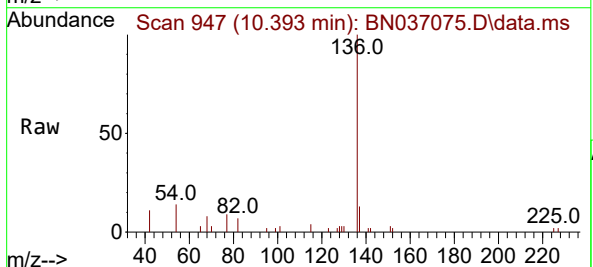
Instrument :
BNA_N
ClientSampleId :
PB168032BL

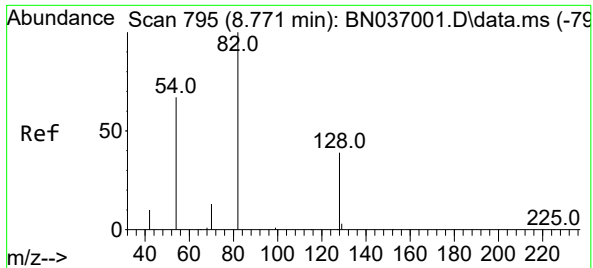
Tgt Ion	Ratio	Lower	Upper
99	100		
42	34.2	29.3	43.9
71	44.3	35.7	53.5



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.393 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	13.9	8.5	12.7#
68	7.6	5.1	7.7

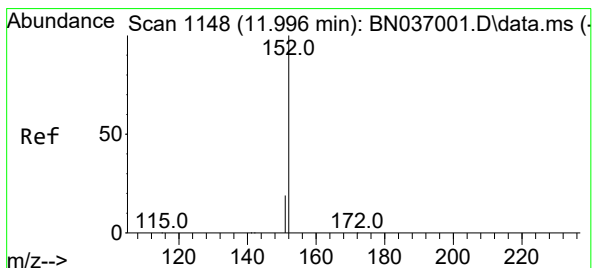
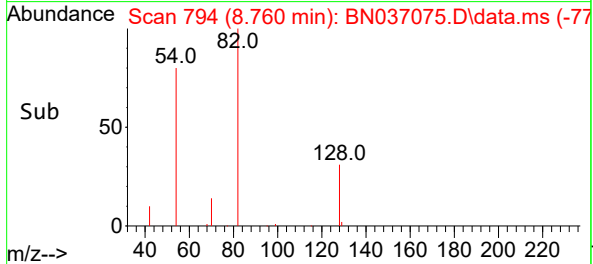
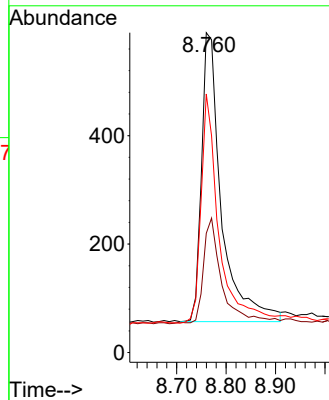
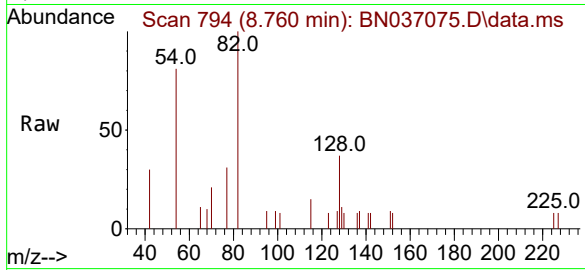




#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.760 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

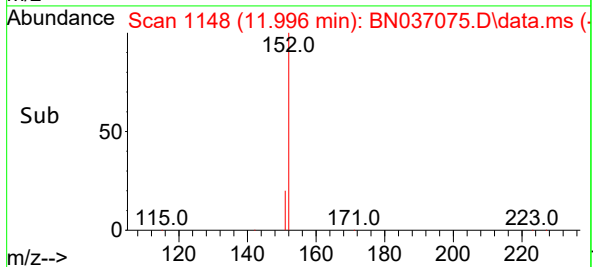
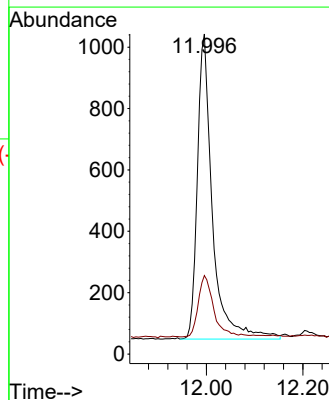
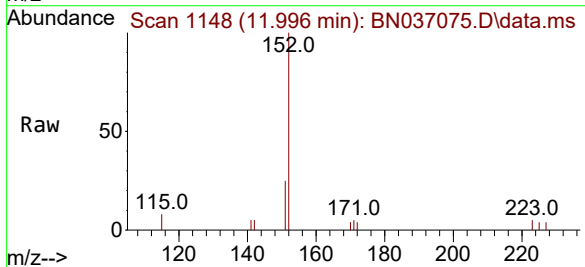
Instrument :
BNA_N
ClientSampleId :
PB168032BL

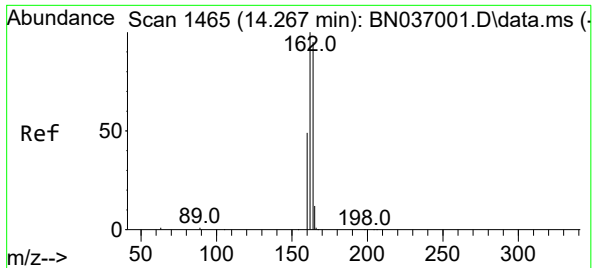
Tgt Ion:	82	Resp:	1493
Ion Ratio	Lower	Upper	
82	100		
128	37.3	34.0	51.0
54	80.8	55.0	82.4



#11
2-Methylnaphthalene-d10
Concen: 0.358 ng
RT: 11.996 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

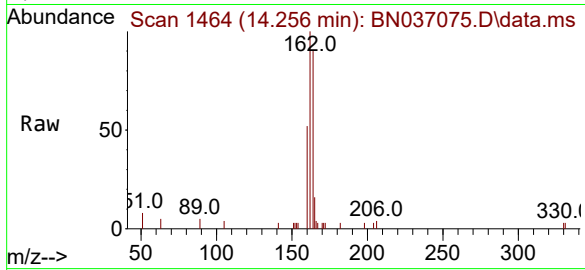
Tgt Ion:	152	Resp:	2147
Ion Ratio	Lower	Upper	
152	100		
151	20.4	17.5	26.3



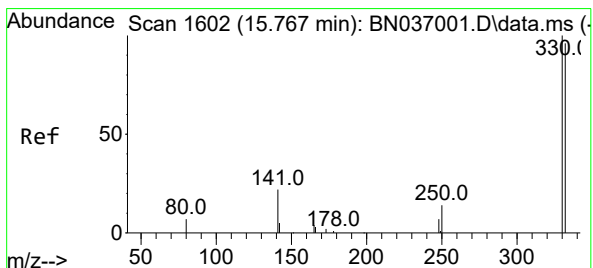
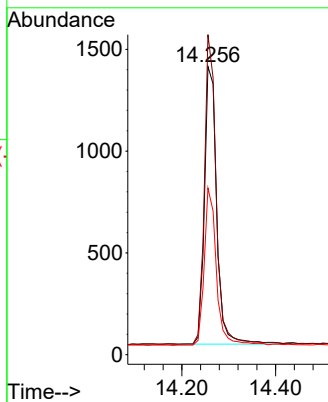
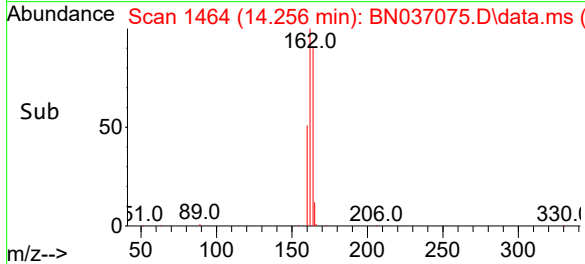


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

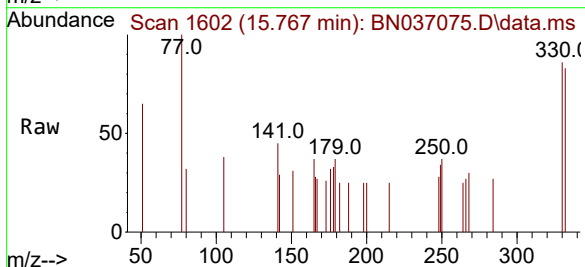
Instrument :
BNA_N
ClientSampleId :
PB168032BL



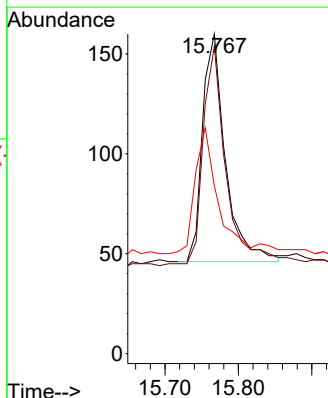
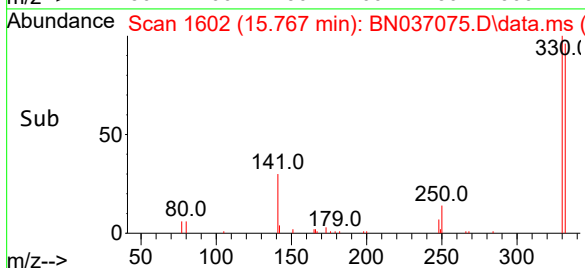
Tgt Ion:164 Resp: 2468
Ion Ratio Lower Upper
164 100
162 111.0 84.2 126.4
160 57.8 42.6 63.8

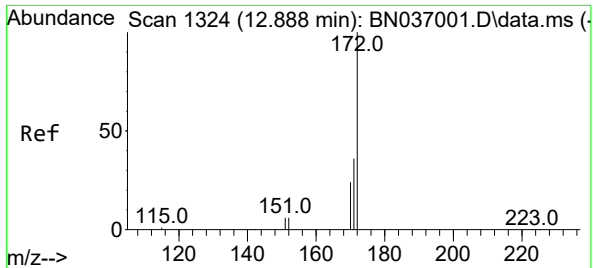


#14
2,4,6-Tribromophenol
Concen: 0.228 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45



Tgt Ion:330 Resp: 247
Ion Ratio Lower Upper
330 100
332 100.0 73.8 110.8
141 59.1 43.9 65.9

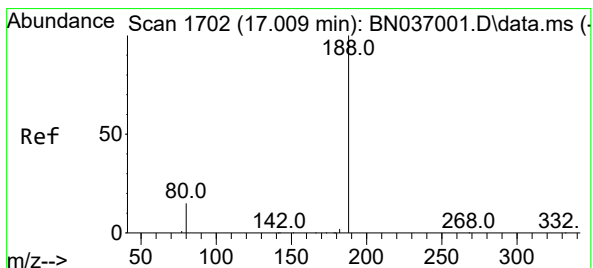
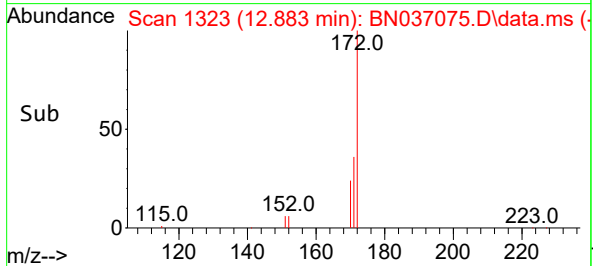
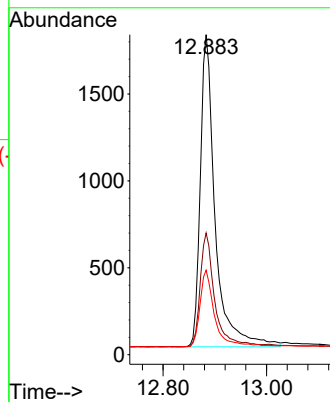
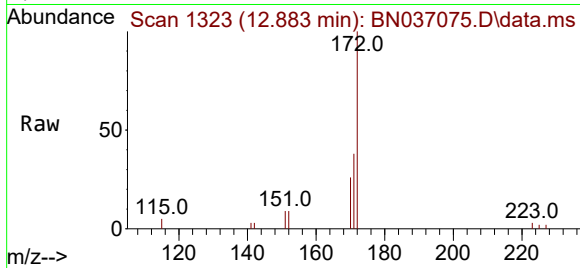




#15
2-Fluorobiphenyl
Concen: 0.335 ng
RT: 12.883 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

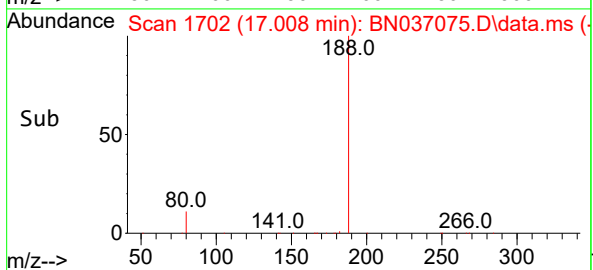
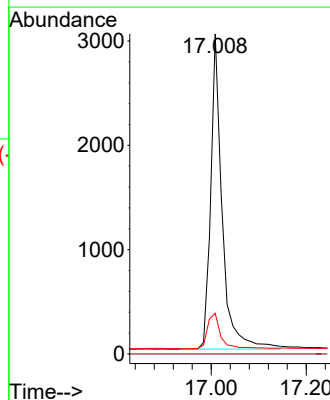
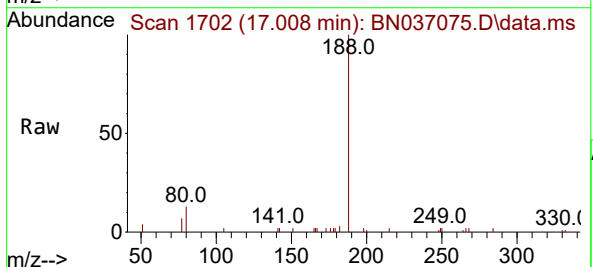
Instrument :
BNA_N
ClientSampleId :
PB168032BL

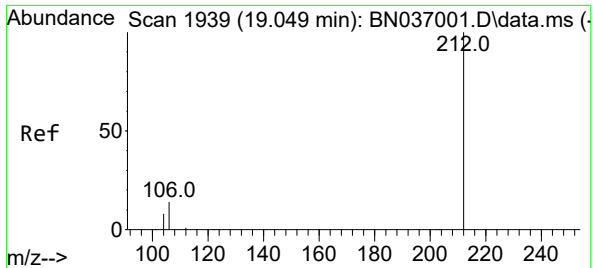
Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.1	29.2	43.8
170	26.4	20.5	30.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.008 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.7	13.4	20.0#

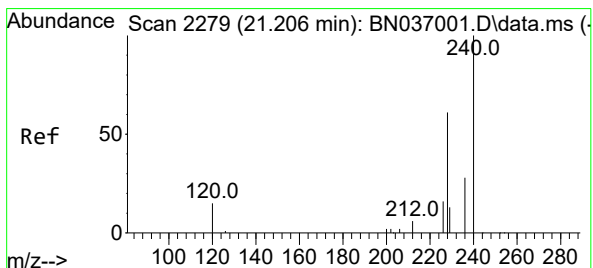
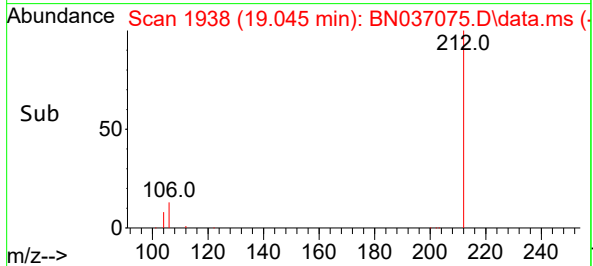
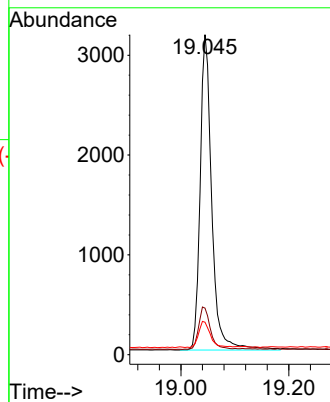
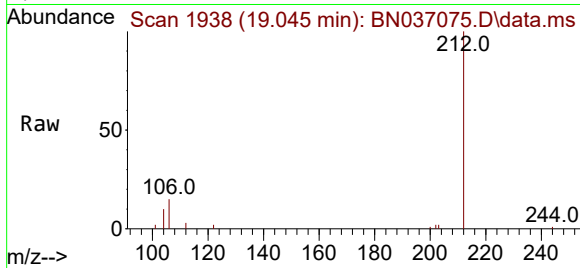




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 19.045 min Scan# 1938
Delta R.T. -0.005 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

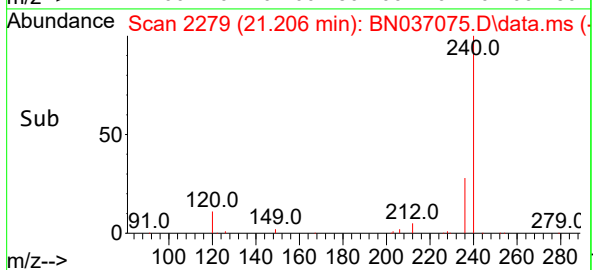
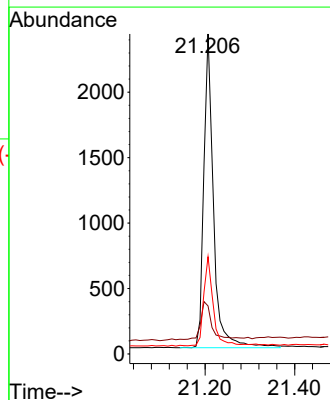
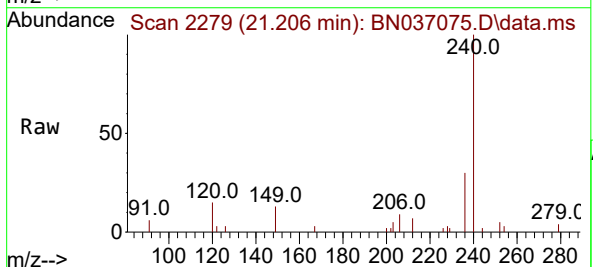
Instrument :
BNA_N
ClientSampleId :
PB168032BL

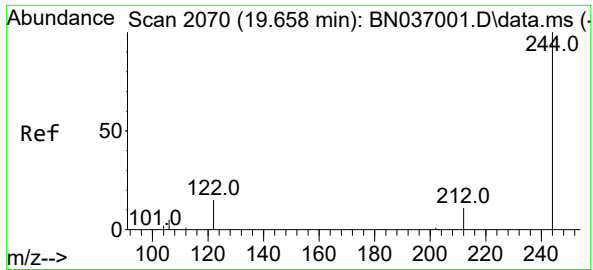
Tgt Ion	Ratio	Lower	Upper
212	100		
106	13.4	11.3	16.9
104	8.3	6.7	10.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.0	15.1	22.7#
236	30.4	24.0	36.0

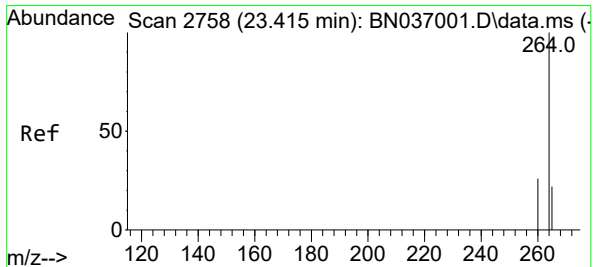
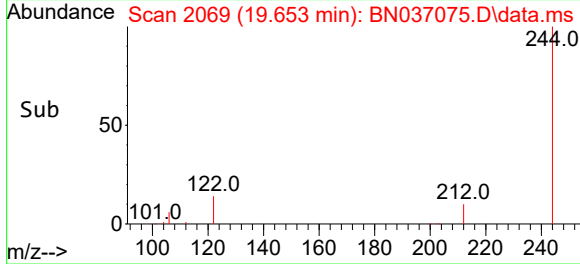
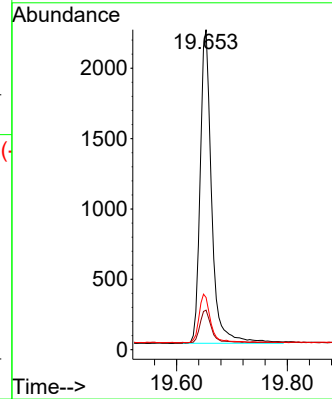
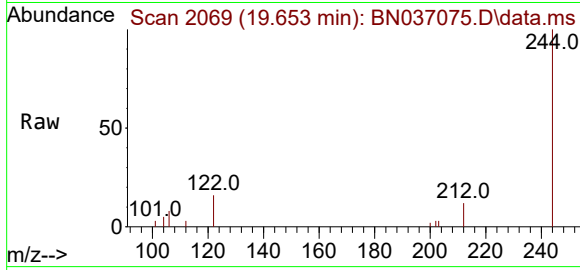




#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.653 min Scan# 2070
Delta R.T. -0.005 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

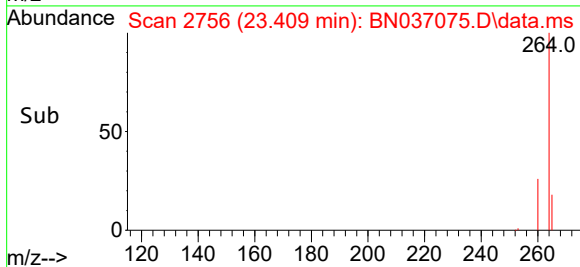
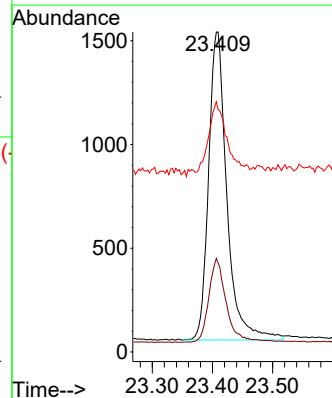
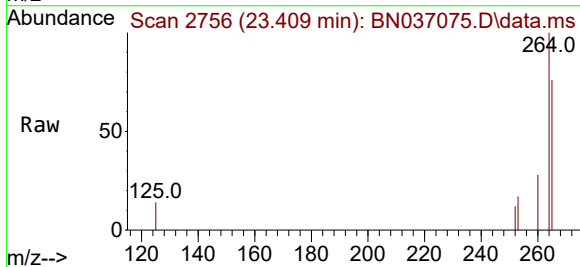
Instrument :
BNA_N
ClientSampleId :
PB168032BL

Tgt Ion:244 Resp: 3216
Ion Ratio Lower Upper
244 100
212 12.4 9.7 14.5
122 16.3 13.4 20.0



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.409 min Scan# 2756
Delta R.T. -0.006 min
Lab File: BN037075.D
Acq: 20 May 2025 15:45

Tgt Ion:264 Resp: 3128
Ion Ratio Lower Upper
264 100
260 27.8 21.9 32.9
265 75.7 51.6 77.4



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168032BS	SDG No.:	Q2063
Lab Sample ID:	PB168032BS	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
BN037080.D	1	05/16/25 11:50	05/20/25 18:47	PB168032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.611				
1146-65-2	Naphthalene-d8	4700	10.394				
15067-26-2	Acenaphthene-d10	2640	14.256				
1517-22-2	Phenanthrene-d10	5350	17.009				
1719-03-5	Chrysene-d12	4050	21.206				
1520-96-3	Perylene-d12	3460	23.404				

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\BN052125\
 Data File : BN037080.D
 Acq On : 20 May 2025 18:47
 Operator : RC/JU
 Sample : PB168032BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BS

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/21/2025
 Supervised By :Jagrut Upadhyay 05/21/2025

Quant Time: May 21 01:38:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1842	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4702	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2635	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5352	0.400	ng	# 0.00
29) Chrysene-d12	21.206	240	4047	0.400	ng	# 0.00
35) Perylene-d12	23.404	264	3455	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1594	0.330	ng	0.00
5) Phenol-d6	6.788	99	1941	0.321	ng	0.00
8) Nitrobenzene-d5	8.760	82	1652	0.323	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	2547m	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	317	0.274	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4016	0.333	ng	-0.01
27) Fluoranthene-d10	19.045	212	4775	0.325	ng	0.00
31) Terphenyl-d14	19.649	244	3340	0.386	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.133	88	695	0.307	ng	# 27
3) n-Nitrosodimethylamine	3.444	42	1538	0.317	ng	# 95
6) bis(2-Chloroethyl)ether	7.040	93	1788	0.322	ng	98
9) Naphthalene	10.436	128	4588	0.330	ng	99
10) Hexachlorobutadiene	10.735	225	1049	0.360	ng	# 98
12) 2-Methylnaphthalene	12.062	142	2706	0.303	ng	98
16) Acenaphthylene	13.978	152	4675	0.365	ng	100
17) Acenaphthene	14.320	154	2783	0.332	ng	99
18) Fluorene	15.314	166	3819	0.347	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	316	0.314	ng	# 92
21) 4-Bromophenyl-phenylether	16.202	248	1177	0.348	ng	# 79
22) Hexachlorobenzene	16.313	284	1258	0.348	ng	95
23) Atrazine	16.487	200	1058	0.359	ng	97
24) Pentachlorophenol	16.661	266	697	0.349	ng	98
25) Phenanthrene	17.046	178	6039	0.345	ng	100
26) Anthracene	17.145	178	5549	0.349	ng	100
28) Fluoranthene	19.073	202	6623	0.317	ng	99
30) Pyrene	19.440	202	6692	0.387	ng	100
32) Benzo(a)anthracene	21.189	228	5361	0.352	ng	99
33) Chrysene	21.242	228	5814	0.361	ng	97
34) Bis(2-ethylhexyl)phtha...	21.126	149	3282	0.350	ng	99
36) Indeno(1,2,3-cd)pyrene	25.611	276	4926	0.349	ng	98
37) Benzo(b)fluoranthene	22.746	252	4963	0.346	ng	99
38) Benzo(k)fluoranthene	22.787	252	5215	0.368	ng	97
39) Benzo(a)pyrene	23.307	252	4345	0.357	ng	# 92
40) Dibenzo(a,h)anthracene	25.628	278	3843	0.350	ng	99
41) Benzo(g,h,i)perylene	26.280	276	4175	0.350	ng	98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037080.D
Acq On : 20 May 2025 18:47
Operator : RC/JU
Sample : PB168032BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB168032BS

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025

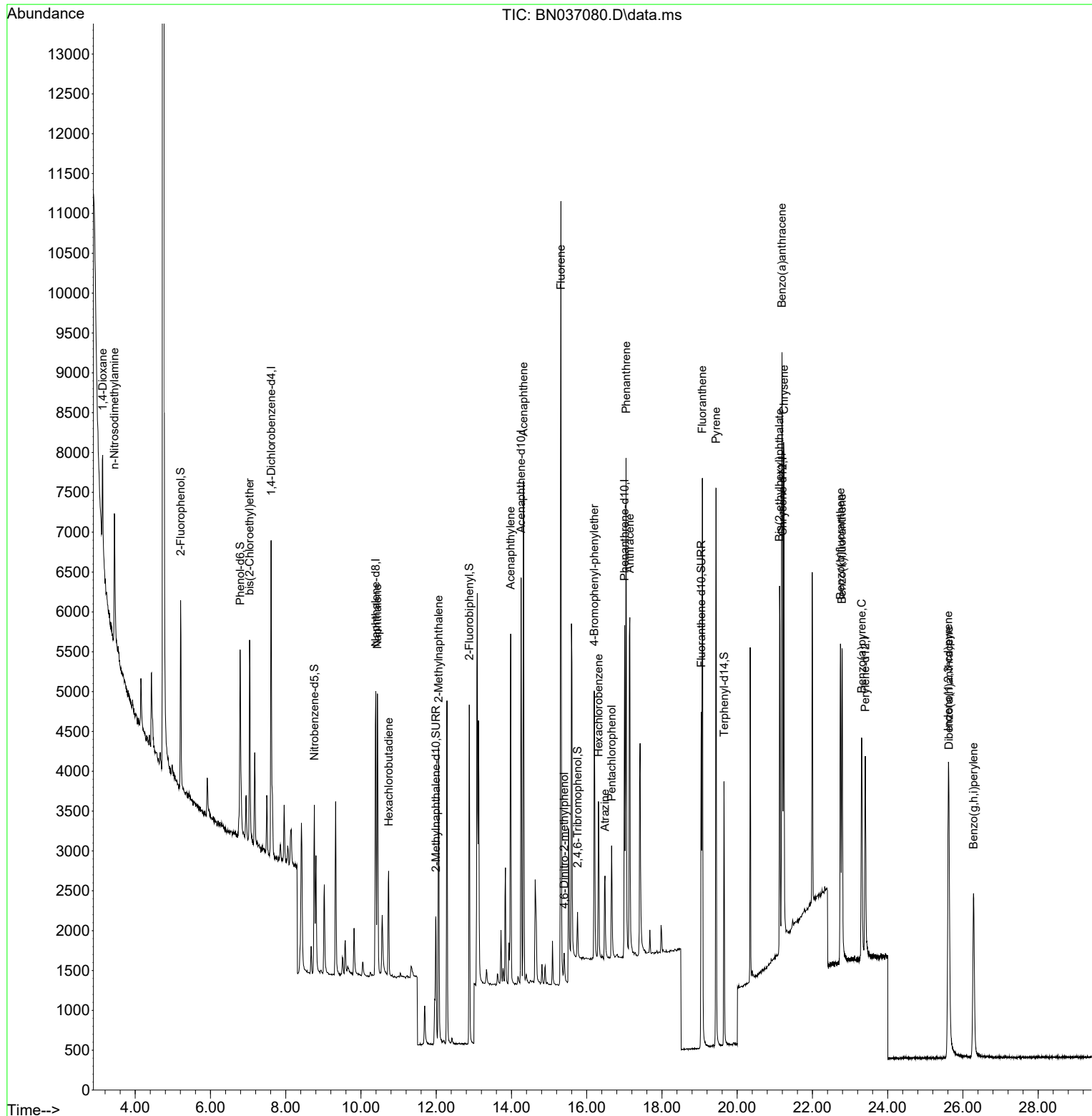
Quant Time: May 21 01:38:49 2025

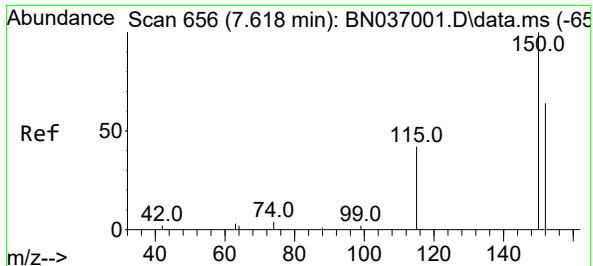
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed May 14 11:26:32 2025

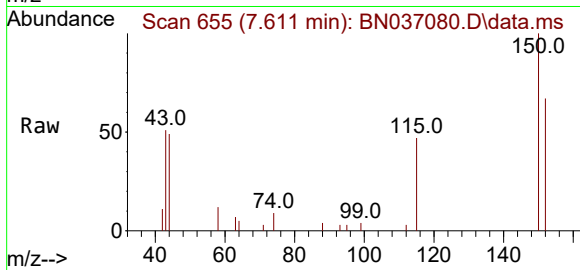
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

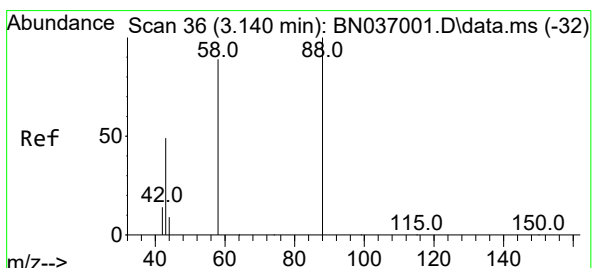
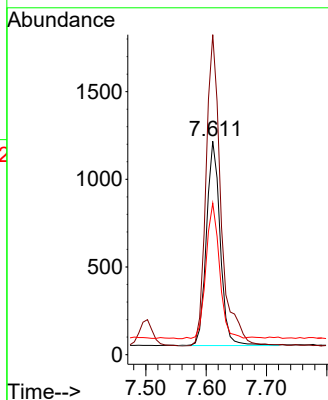
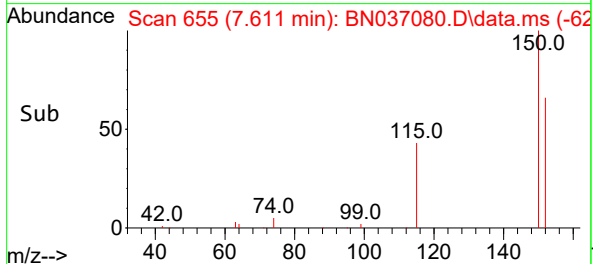
Instrument :
BNA_N
ClientSampleId :
PB168032BS



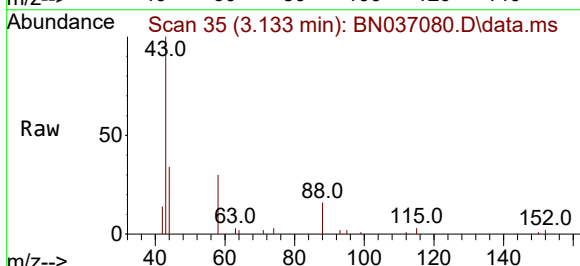
Tgt Ion: 152 Resp: 184
Ion Ratio Lower Upper
152 100
150 150.0 123.9 185.9
115 71.0 55.8 83.8

Manual Integrations
APPROVED

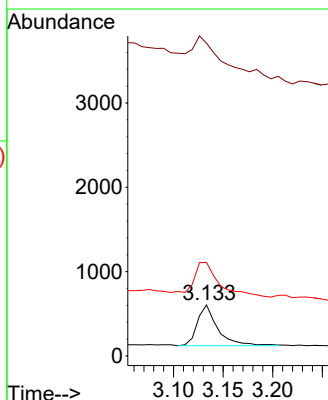
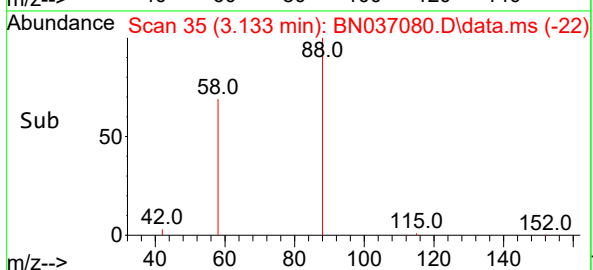
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



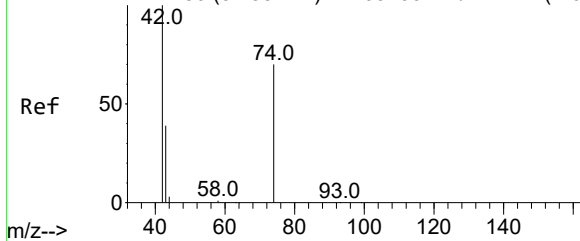
#2
1,4-Dioxane
Concen: 0.307 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47



Tgt Ion: 88 Resp: 695
Ion Ratio Lower Upper
88 100
43 152.9 37.4 56.0#
58 109.8 68.8 103.2#



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.317 ng

RT: 3.444 min Scan# 70

Delta R.T. -0.014 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

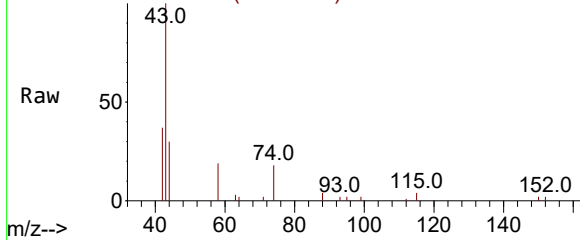
Instrument :

BNA_N

ClientSampleId :

PB168032BS

Abundance Scan 78 (3.444 min): BN037080.D\data.ms



Tgt Ion: 42 Resp: 1538

Ion Ratio Lower Upper

42 100

74 72.7 59.8 89.6

44 7.8 11.9 17.9

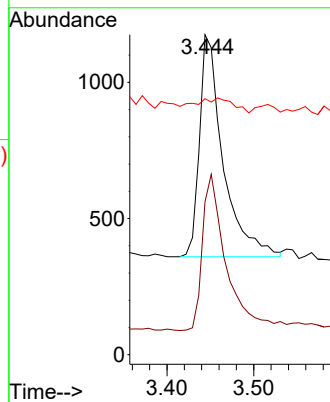
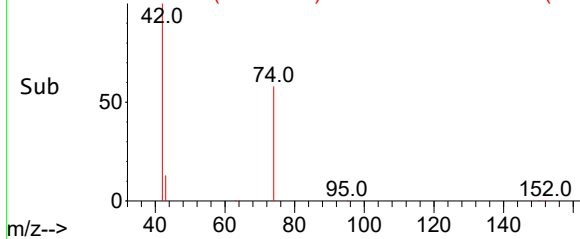
Manual Integrations

APPROVED

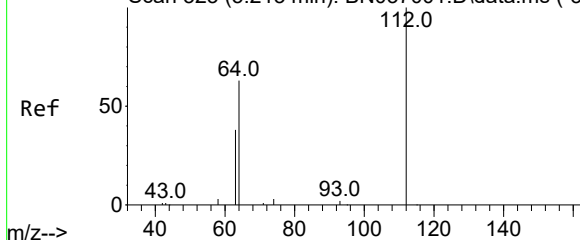
Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025

Abundance Scan 78 (3.444 min): BN037080.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.330 ng

RT: 5.206 min Scan# 322

Delta R.T. -0.007 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Tgt Ion:112 Resp: 1594

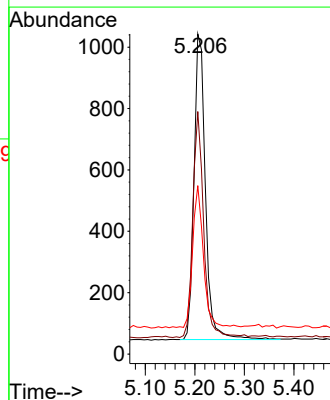
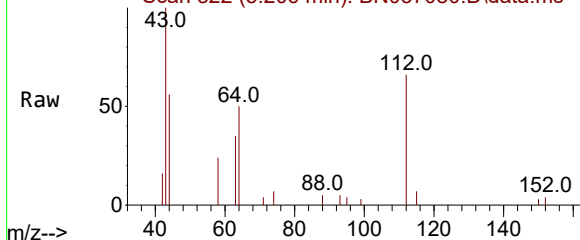
Ion Ratio Lower Upper

112 100

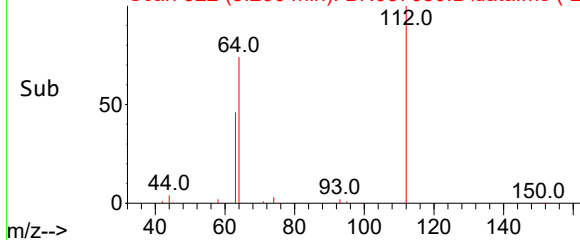
64 70.5 55.7 83.5

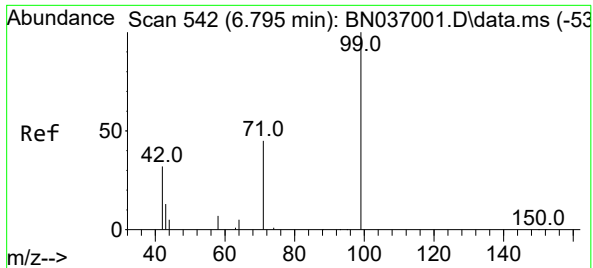
63 44.2 34.6 51.8

Abundance Scan 322 (5.206 min): BN037080.D\data.ms



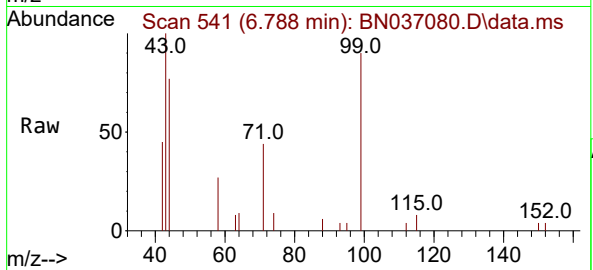
Abundance Scan 322 (5.206 min): BN037080.D\data.ms (-29)





#5
Phenol-d6
Concen: 0.321 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

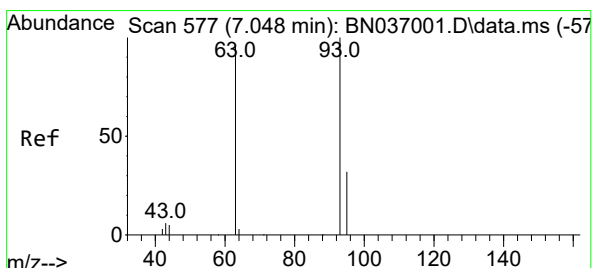
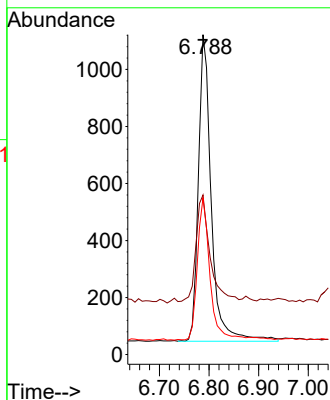
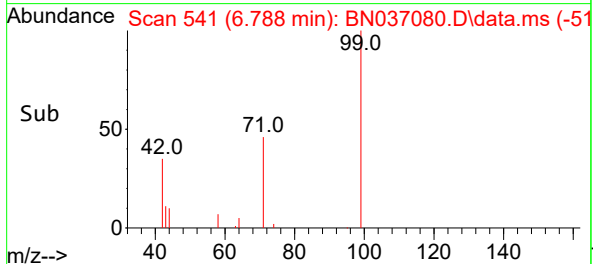
Instrument :
BNA_N
ClientSampleId :
PB168032BS



Tgt Ion: 99 Resp: 194
Ion Ratio Lower Upper
99 100
42 37.5 29.3 43.9
71 45.0 35.7 53.5

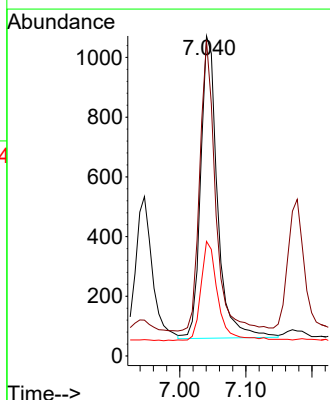
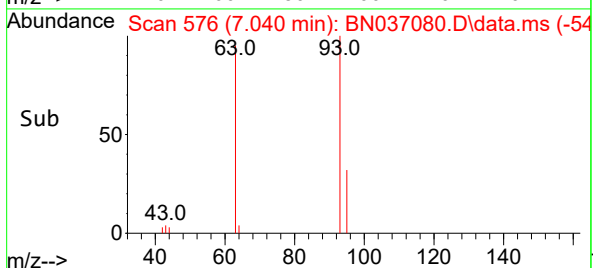
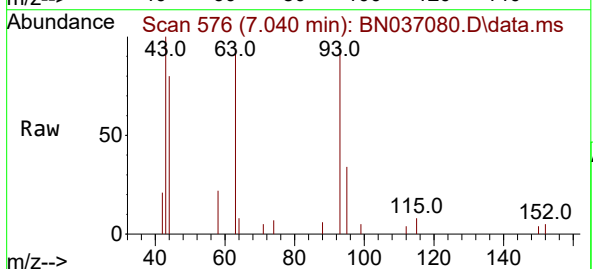
Manual Integrations
APPROVED

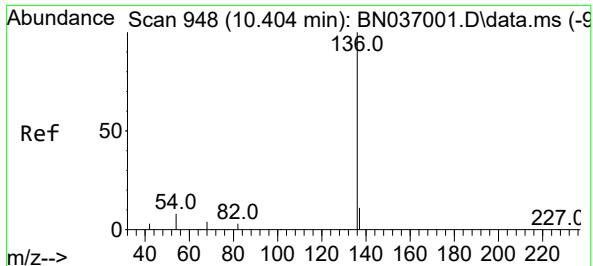
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.322 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

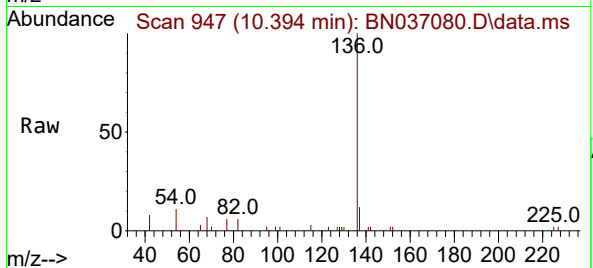
Tgt Ion: 93 Resp: 1788
Ion Ratio Lower Upper
93 100
63 89.7 70.1 105.1
95 33.8 26.2 39.2





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

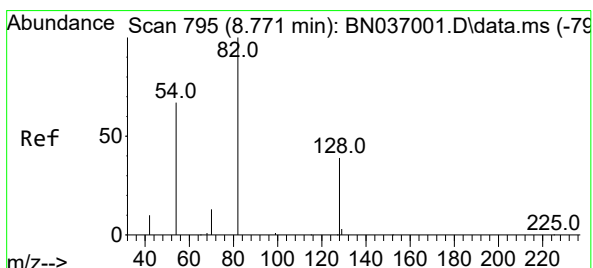
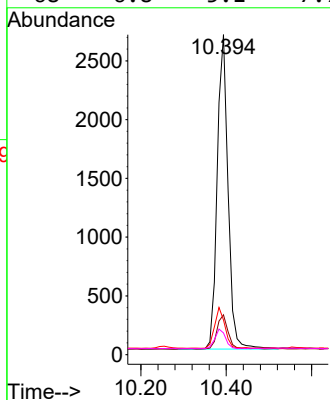
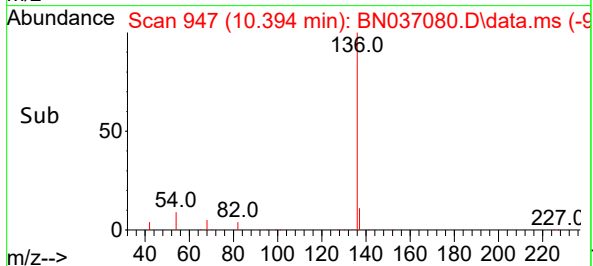
Instrument :
BNA_N
ClientSampleId :
PB168032BS



Tgt Ion: 136 Resp: 470
Ion Ratio Lower Upper
136 100
137 12.4 10.4 15.6
54 10.8 8.5 12.7
68 6.8 5.1 7.7

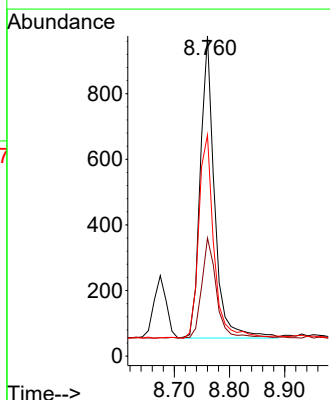
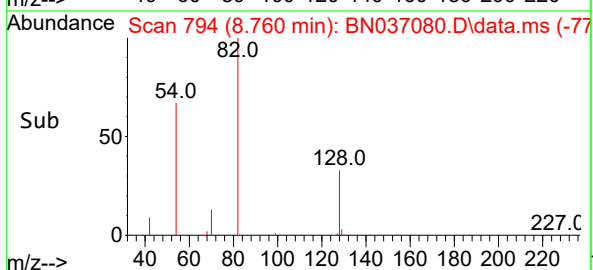
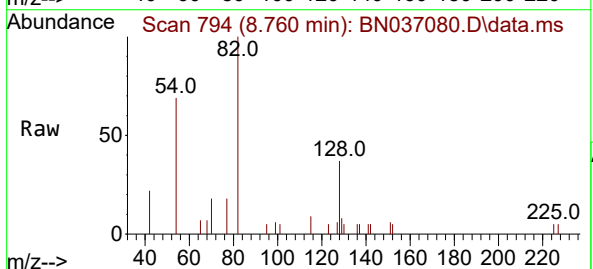
Manual Integrations
APPROVED

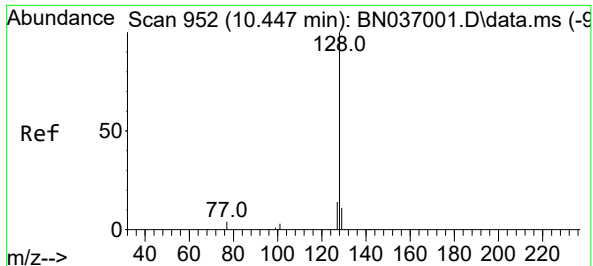
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion: 82 Resp: 1652
Ion Ratio Lower Upper
82 100
128 36.9 34.0 51.0
54 69.1 55.0 82.4





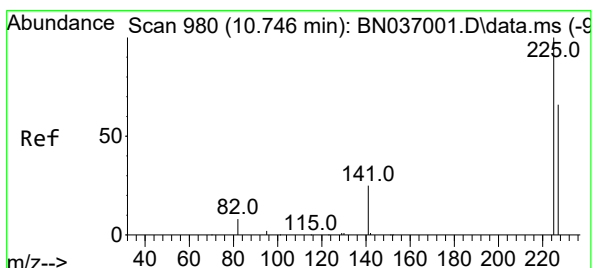
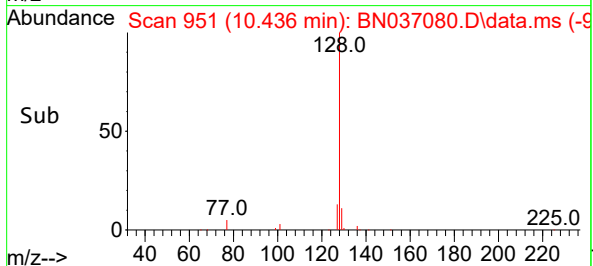
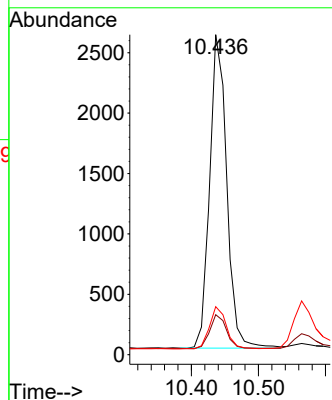
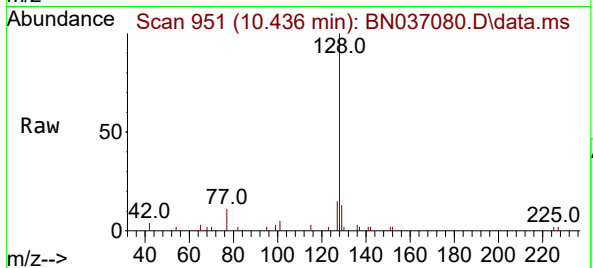
#9
Naphthalene
Concen: 0.330 ng
RT: 10.436 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Instrument :
BNA_N
ClientSampleId :
PB168032BS

Tgt Ion:128 Resp: 4588
Ion Ratio Lower Upper
128 100
129 12.5 9.7 14.5
127 15.0 12.4 18.6

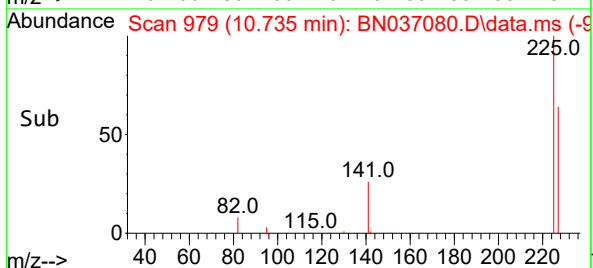
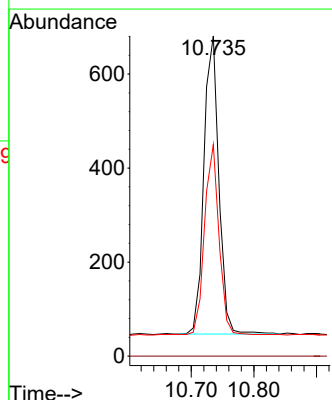
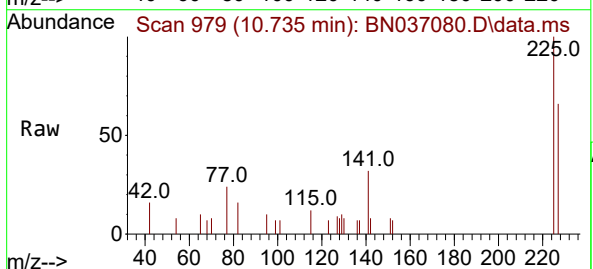
Manual Integrations
APPROVED

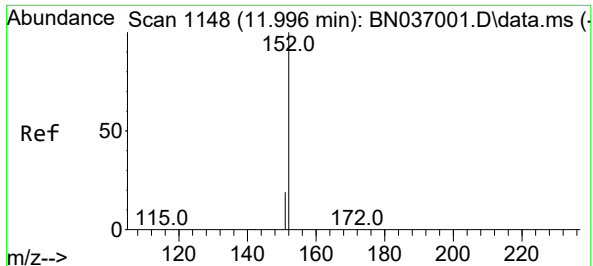
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#10
Hexachlorobutadiene
Concen: 0.360 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

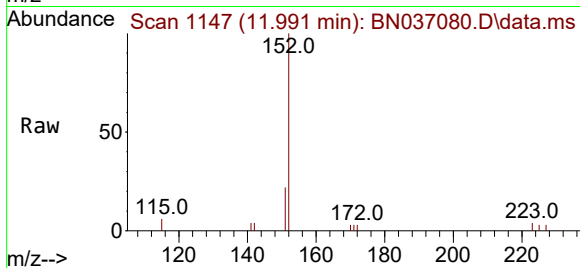
Tgt Ion:225 Resp: 1049
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.1 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.385 ng m
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

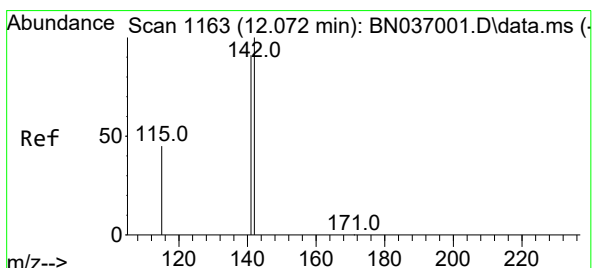
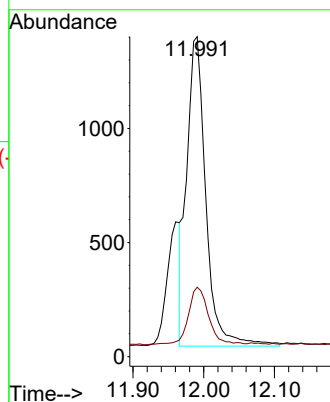
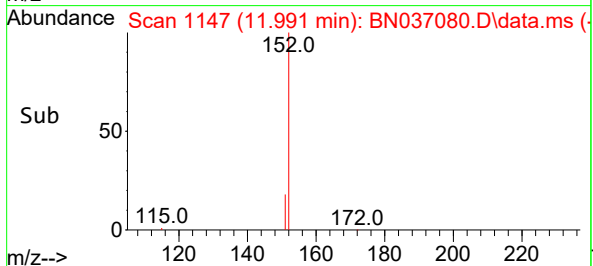
Instrument :
BNA_N
ClientSampleId :
PB168032BS



Tgt Ion:152 Resp: 254
Ion Ratio Lower Upper
152 100
151 19.6 17.5 26.3

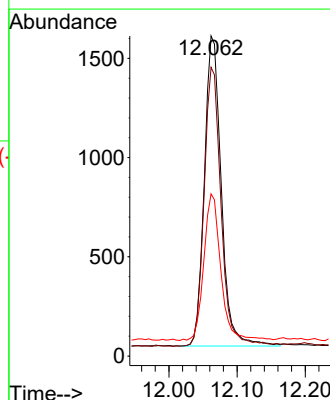
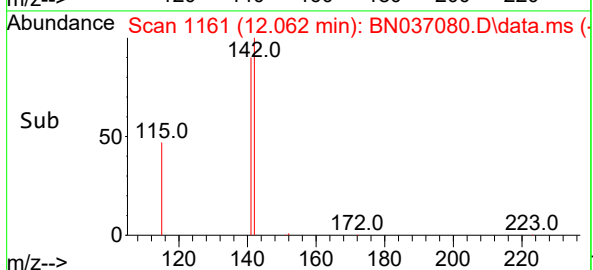
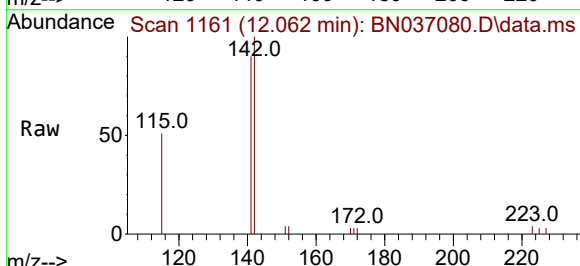
Manual Integrations
APPROVED

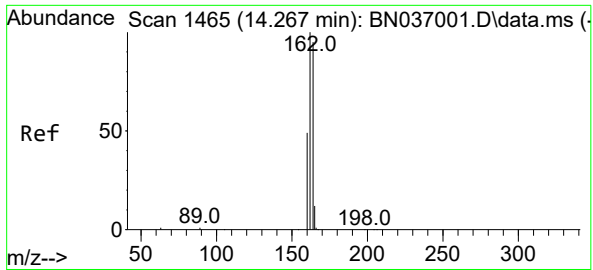
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#12
2-Methylnaphthalene
Concen: 0.303 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

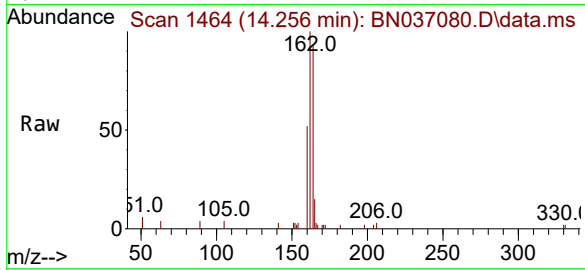
Tgt Ion:142 Resp: 2706
Ion Ratio Lower Upper
142 100
141 90.2 73.3 109.9
115 50.7 38.4 57.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

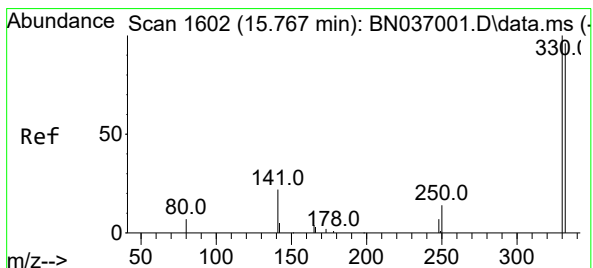
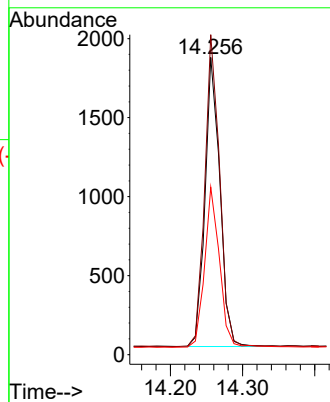
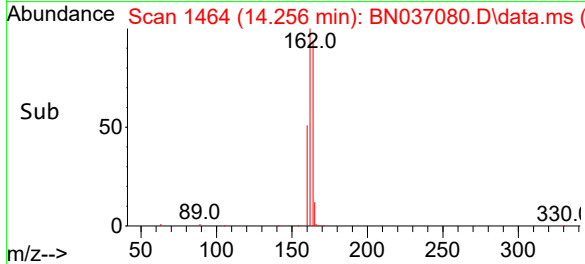
Instrument :
BNA_N
ClientSampleId :
PB168032BS



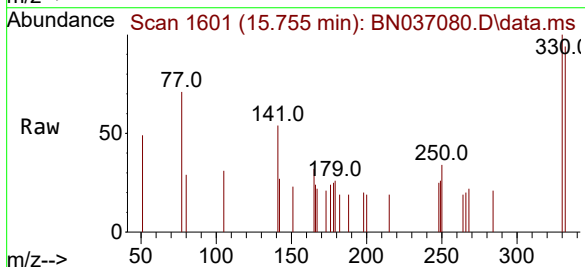
Tgt Ion:164 Resp: 263
Ion Ratio Lower Upper
164 100
162 107.7 84.2 126.4
160 56.4 42.6 63.8

Manual Integrations
APPROVED

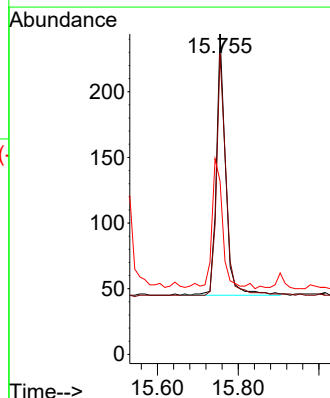
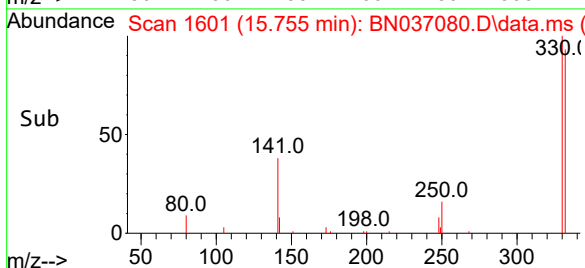
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

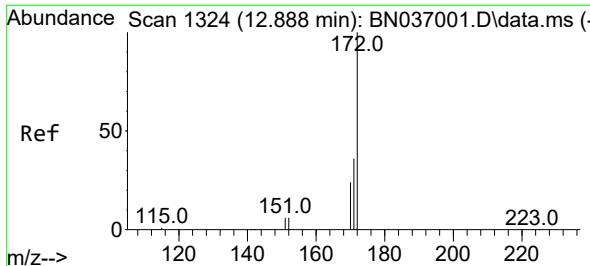


#14
2,4,6-Tribromophenol
Concen: 0.274 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47



Tgt Ion:330 Resp: 317
Ion Ratio Lower Upper
330 100
332 94.3 73.8 110.8
141 55.8 43.9 65.9





#15

2-Fluorobiphenyl

Concen: 0.333 ng

RT: 12.878 min Scan# 11

Delta R.T. -0.010 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS

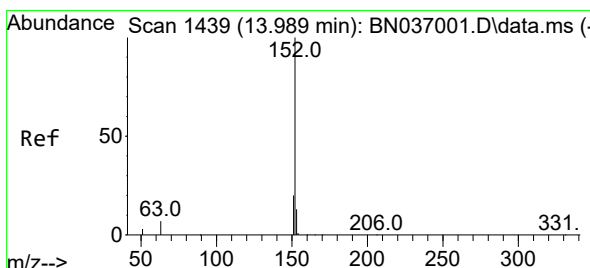
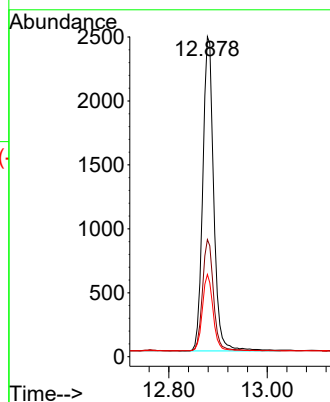
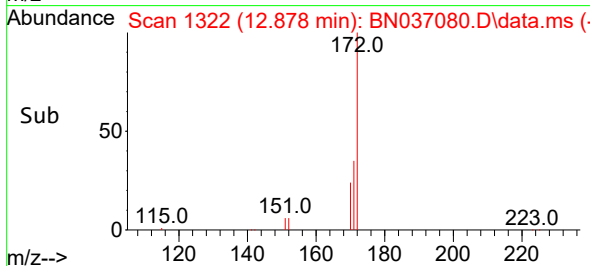
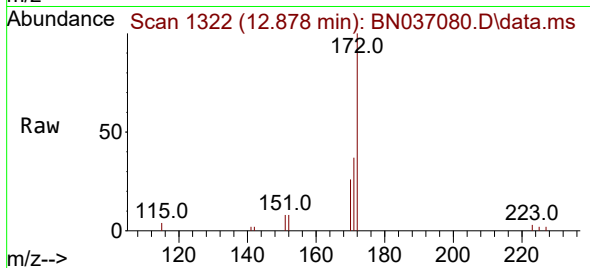
Tgt Ion:	172	Resp:	4010
Ion Ratio	Lower	Upper	
172	100		
171	36.6	29.2	43.8
170	25.7	20.5	30.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#16

Acenaphthylene

Concen: 0.365 ng

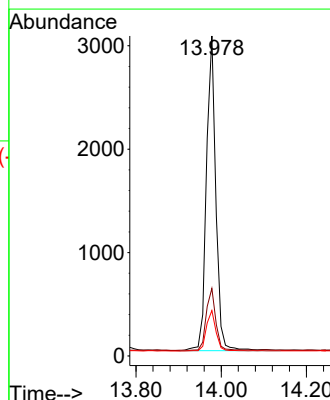
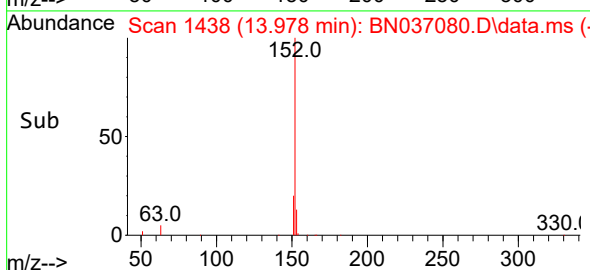
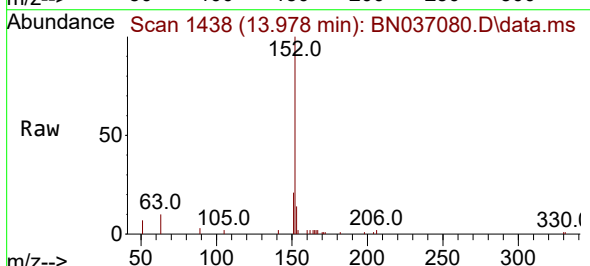
RT: 13.978 min Scan# 1438

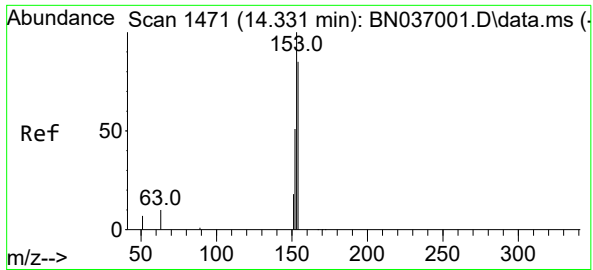
Delta R.T. -0.011 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

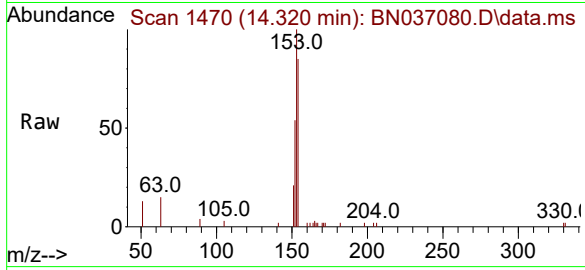
Tgt Ion:	152	Resp:	4675
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.1	24.1
153	13.1	10.5	15.7





#17
Acenaphthene
Concen: 0.332 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

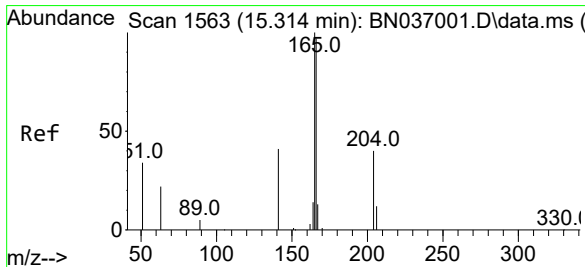
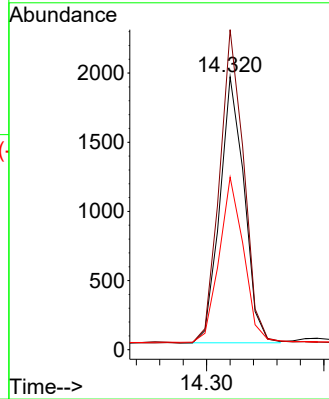
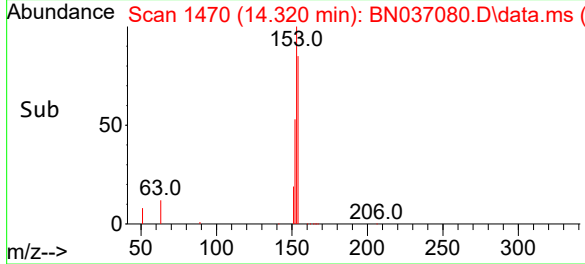
Instrument :
BNA_N
ClientSampleId :
PB168032BS



Tgt Ion:154 Resp: 278
Ion Ratio Lower Upper
154 100
153 118.0 94.2 141.4
152 62.8 49.4 74.0

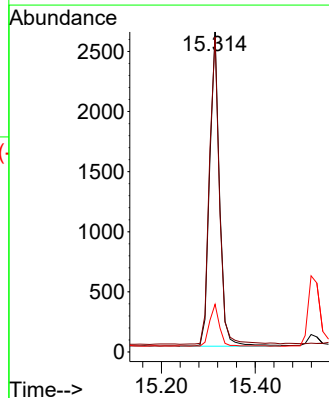
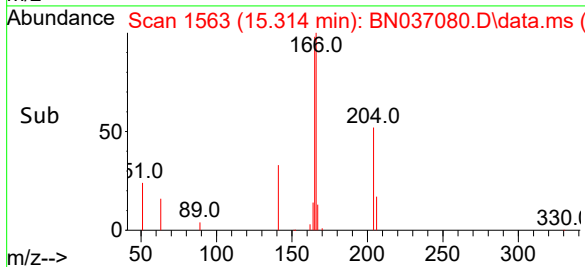
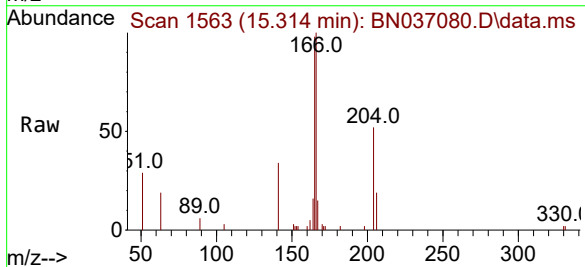
Manual Integrations
APPROVED

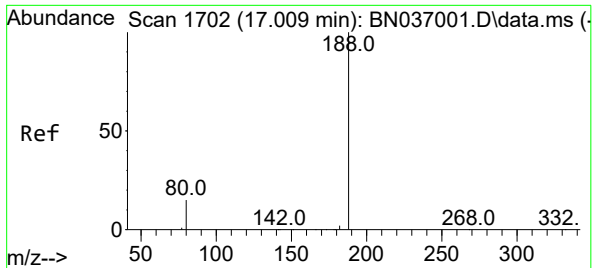
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#18
Fluorene
Concen: 0.347 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:166 Resp: 3819
Ion Ratio Lower Upper
166 100
165 99.1 80.6 120.8
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

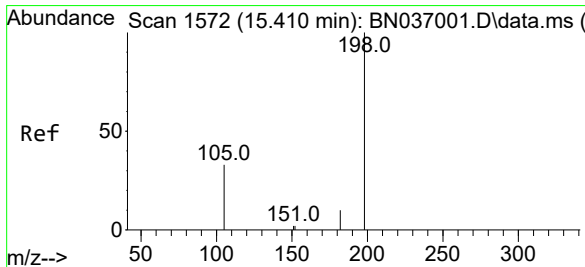
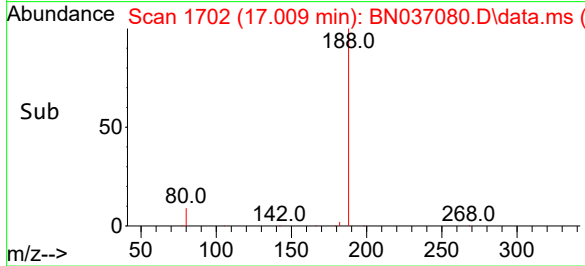
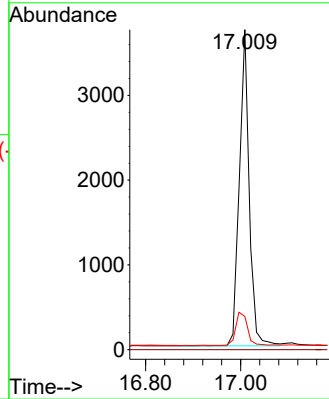
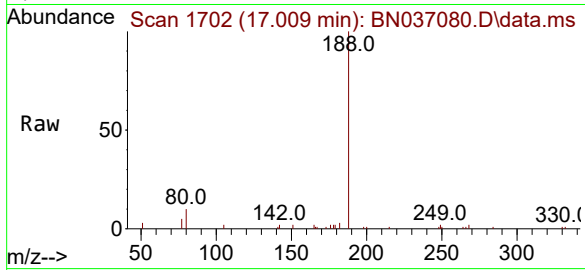
PB168032BS

Tgt Ion:188	Resp:	535
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	10.4	13.4

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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.314 ng

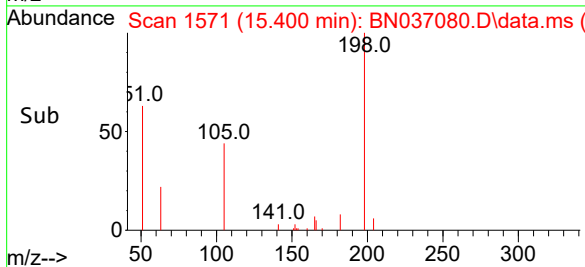
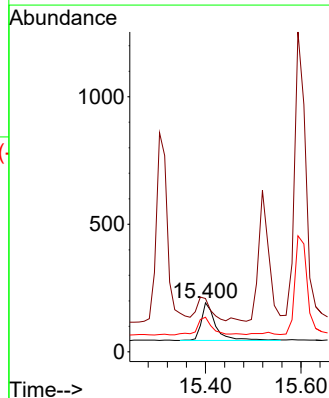
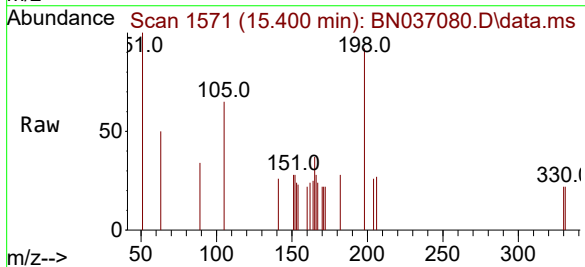
RT: 15.400 min Scan# 1571

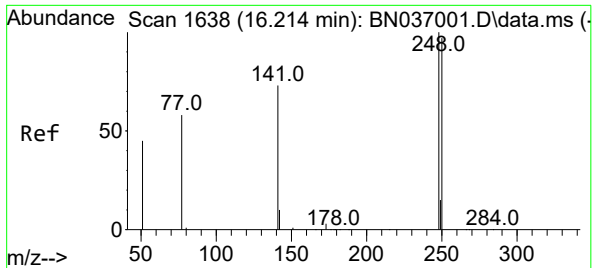
Delta R.T. -0.010 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

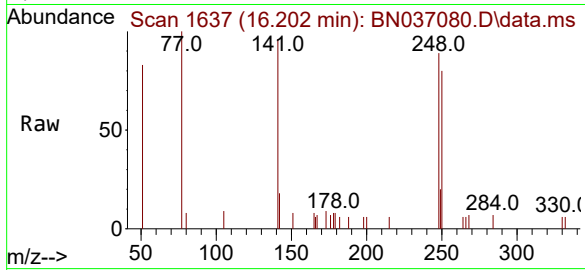
Tgt Ion:198	Resp:	316
Ion Ratio	Lower	Upper
198	100	
51	108.9	87.8
105	70.8	44.2





#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

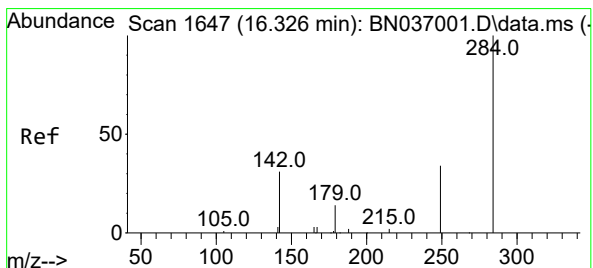
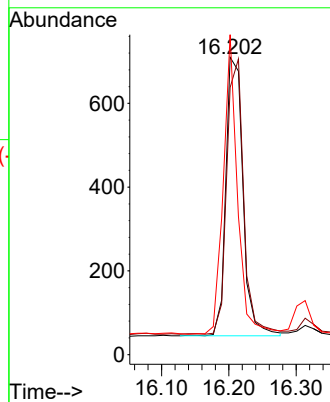
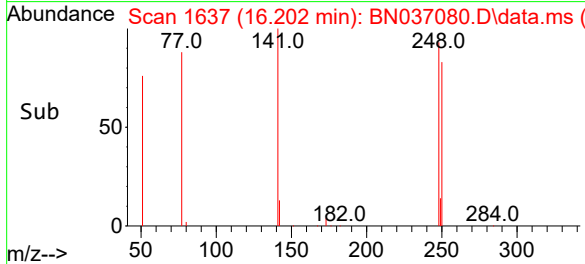
Instrument :
BNA_N
ClientSampleId :
PB168032BS



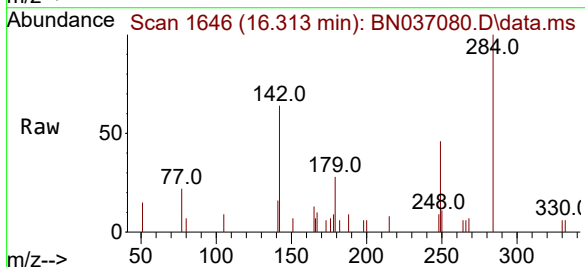
Tgt Ion:248 Resp: 117
Ion Ratio Lower Upper
248 100
250 89.9 78.1 117.1
141 107.6 59.7 89.5

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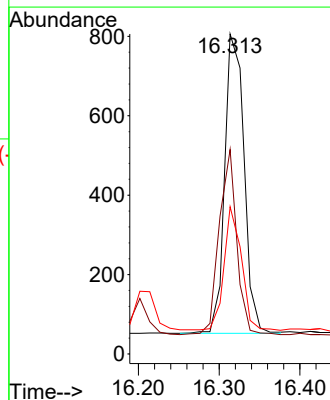
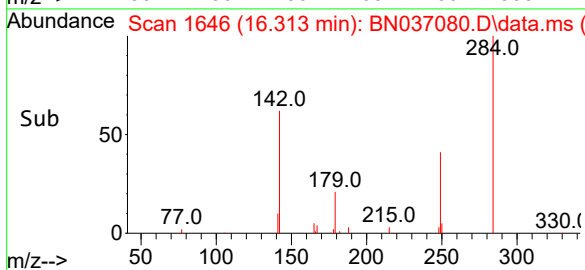
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

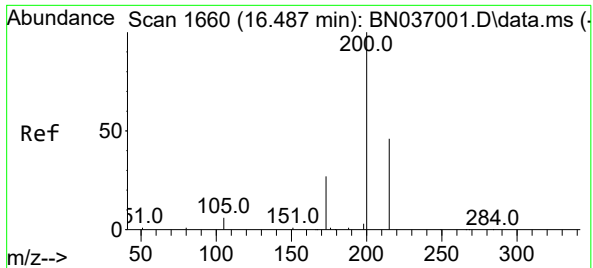


#22
Hexachlorobenzene
Concen: 0.348 ng
RT: 16.313 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47



Tgt Ion:284 Resp: 1258
Ion Ratio Lower Upper
284 100
142 56.0 41.2 61.8
249 37.4 28.7 43.1





#23

Atrazine

Concen: 0.359 ng

RT: 16.487 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

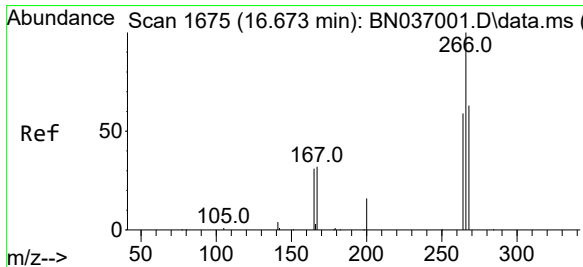
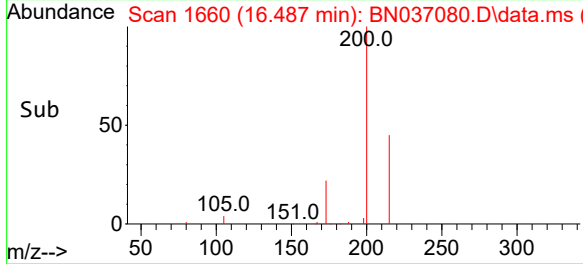
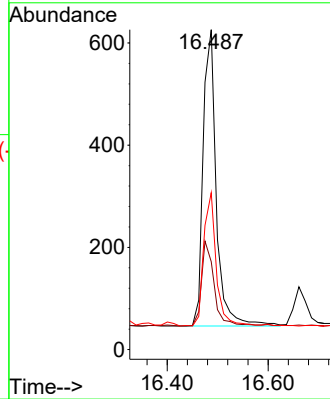
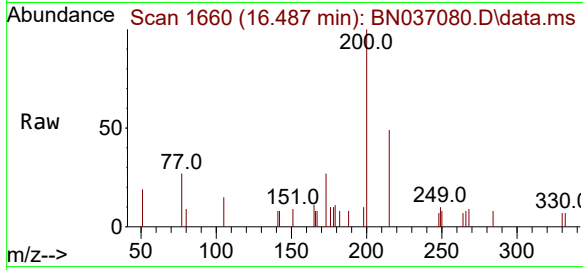
PB168032BS

Tgt Ion:	200	Resp:	1058
Ion Ratio	Lower	Upper	
200	100		
173	27.5	25.2	37.8
215	49.0	39.3	58.9

Manual Integrations
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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#24

Pentachlorophenol

Concen: 0.349 ng

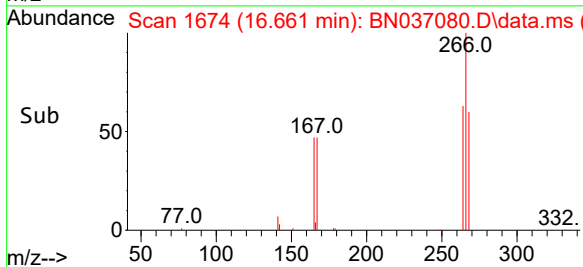
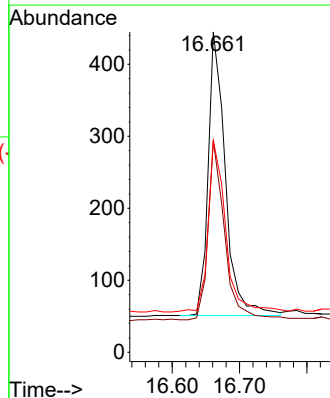
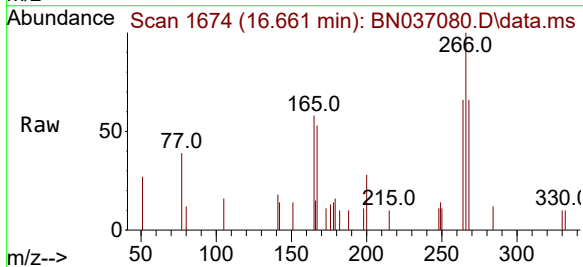
RT: 16.661 min Scan# 1674

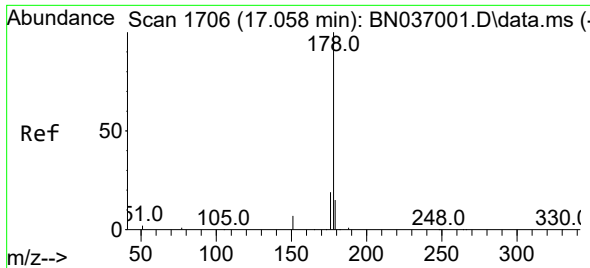
Delta R.T. -0.012 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

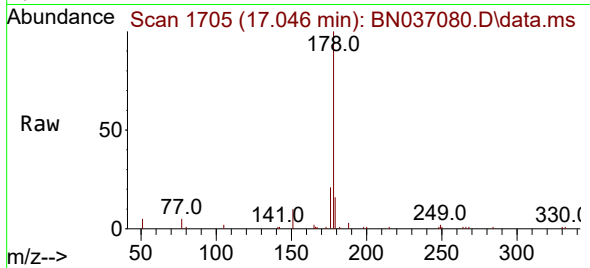
Tgt Ion:	266	Resp:	697
Ion Ratio	Lower	Upper	
266	100		
264	61.3	47.9	71.9
268	61.3	50.0	75.0





#25
Phenanthrene
Concen: 0.345 ng
RT: 17.046 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

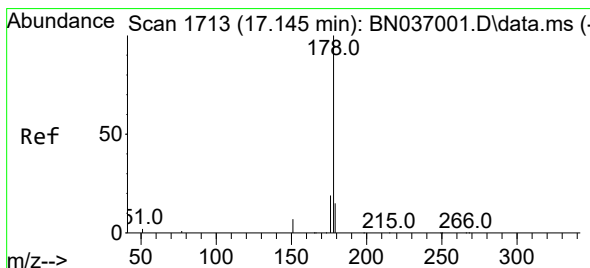
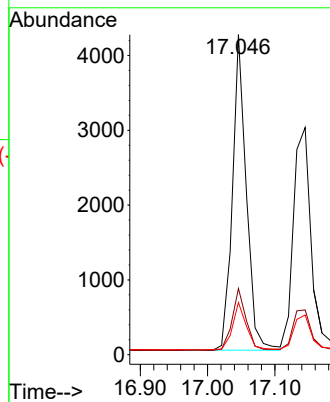
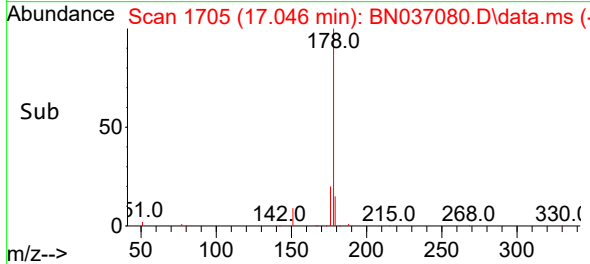
Instrument :
BNA_N
ClientSampleId :
PB168032BS



Tgt Ion:178 Resp: 6039
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.0 12.2 18.2

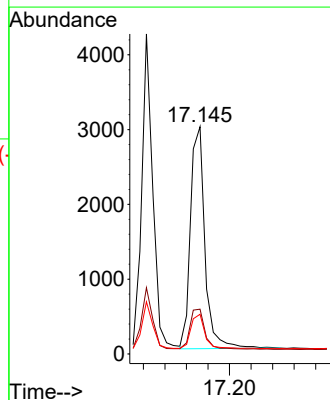
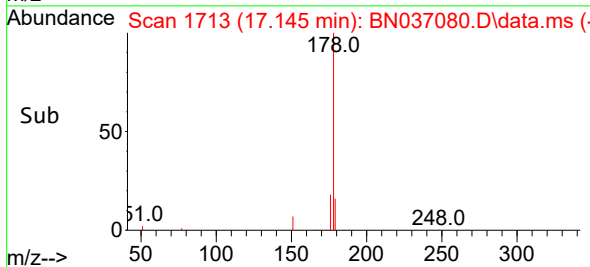
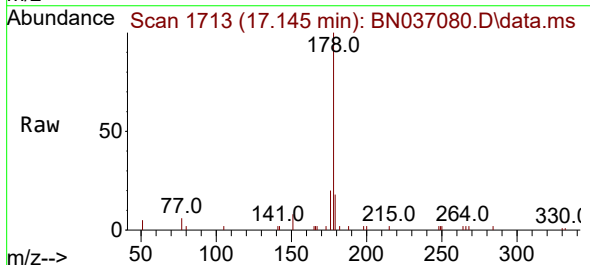
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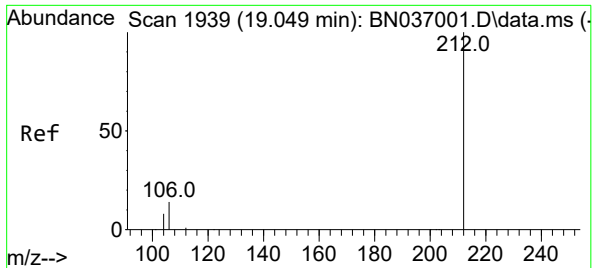
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#26
Anthracene
Concen: 0.349 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

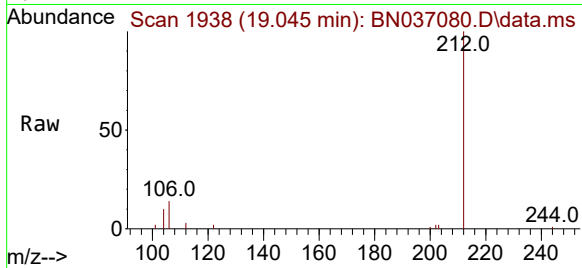
Tgt Ion:178 Resp: 5549
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.3 12.3 18.5





#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 19.045 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

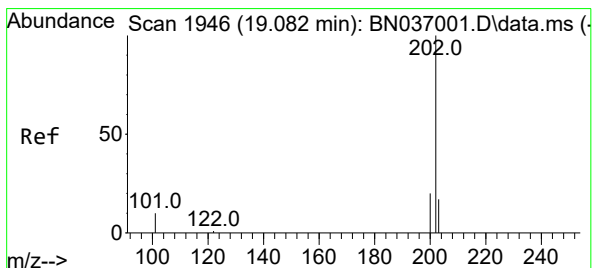
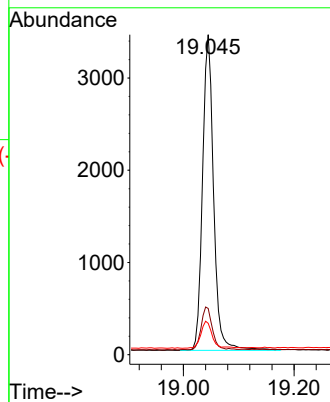
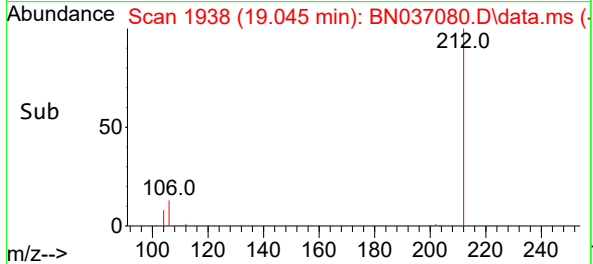
Instrument :
BNA_N
ClientSampleId :
PB168032BS



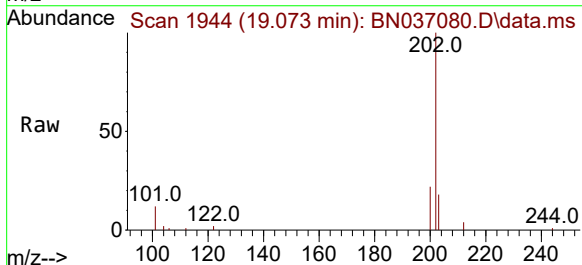
Tgt Ion:212 Resp: 477
Ion Ratio Lower Upper
212 100
106 13.6 11.3 16.9
104 9.0 6.7 10.1

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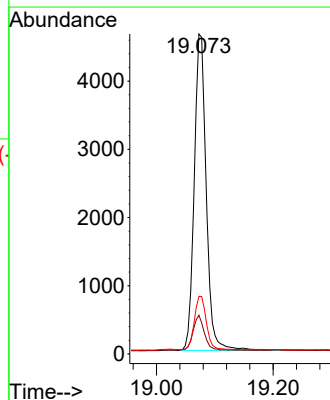
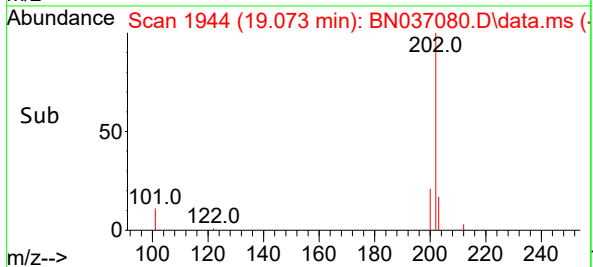
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

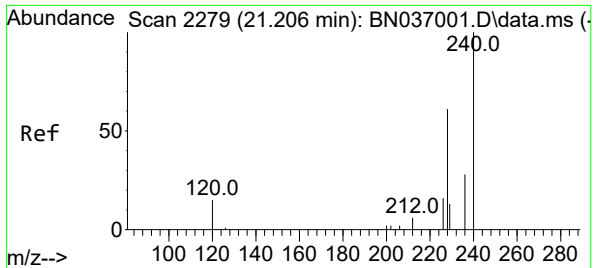


#28
Fluoranthene
Concen: 0.317 ng
RT: 19.073 min Scan# 1944
Delta R.T. -0.009 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47



Tgt Ion:202 Resp: 6623
Ion Ratio Lower Upper
202 100
101 10.8 8.9 13.3
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

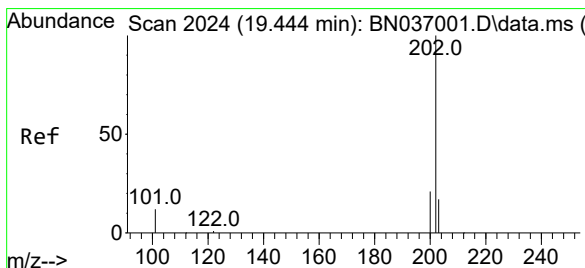
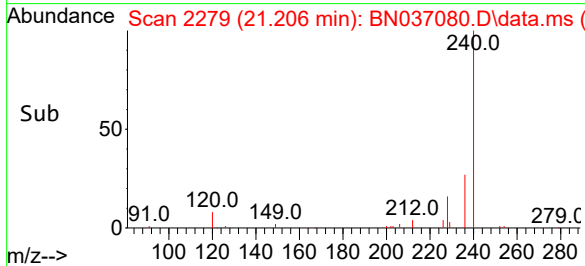
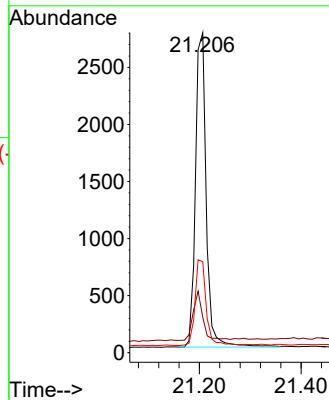
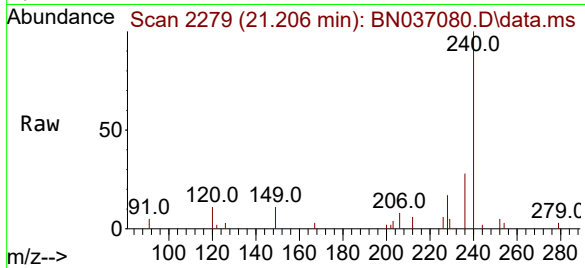
PB168032BS

Tgt Ion:	240	Resp:	404
Ion Ratio	Lower	Upper	
240	100		
120	11.1	15.1	22.7
236	28.4	24.0	36.0

Manual Integrations
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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#30

Pyrene

Concen: 0.387 ng

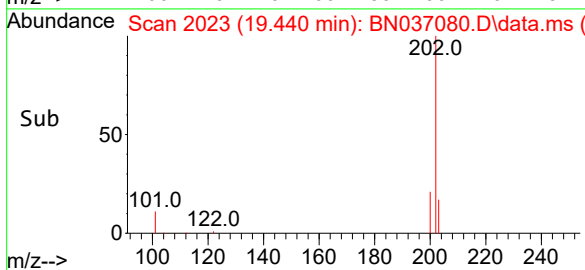
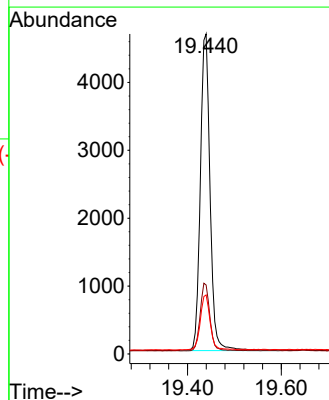
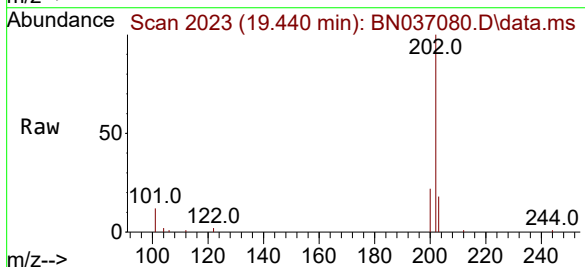
RT: 19.440 min Scan# 2023

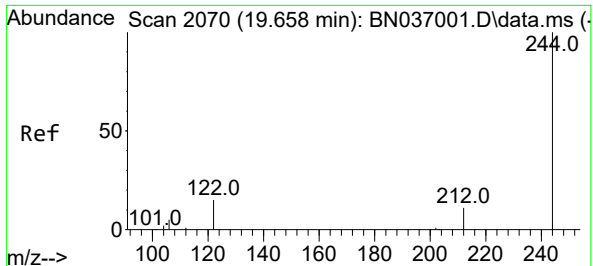
Delta R.T. -0.005 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Tgt Ion:	202	Resp:	6692
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.1	25.7
203	17.8	14.2	21.4





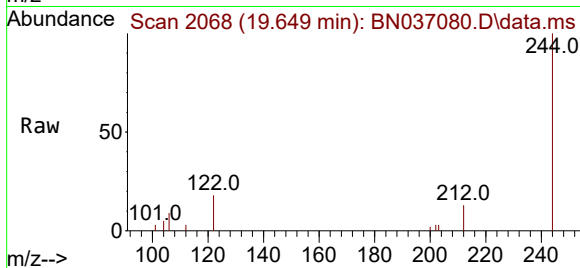
#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.649 min Scan# 2068
Delta R.T. -0.009 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS



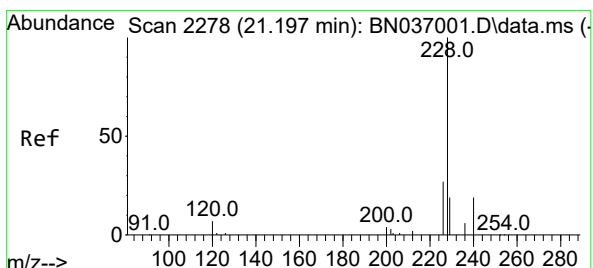
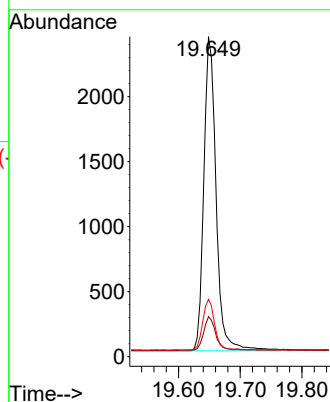
Tgt Ion:244 Resp: 3340
Ion Ratio Lower Upper
244 100
212 12.5 9.7 14.5
122 18.0 13.4 20.0

Manual Integrations

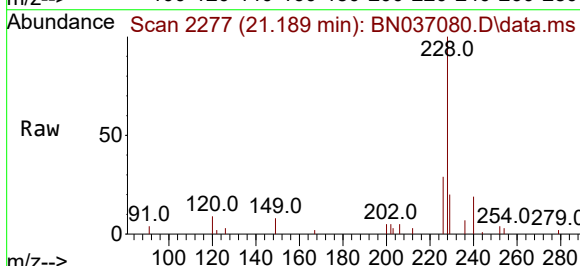
APPROVED

Reviewed By :Rahul Chavli 05/21/2025

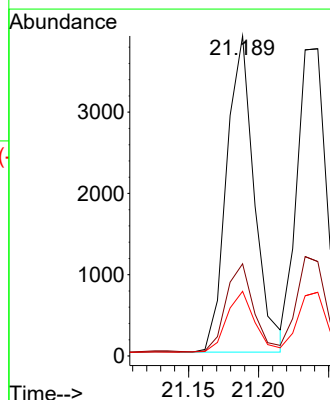
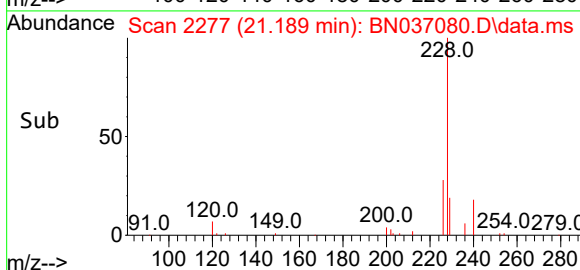
Supervised By :Jagrut Upadhyay 05/21/2025

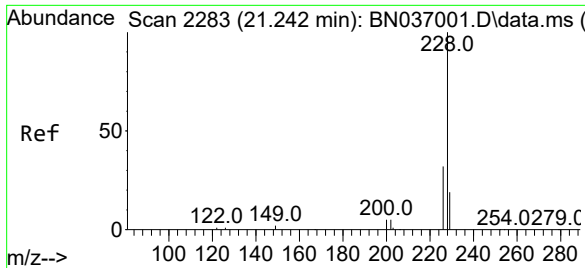


#32
Benzo(a)anthracene
Concen: 0.352 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47



Tgt Ion:228 Resp: 5361
Ion Ratio Lower Upper
228 100
226 28.8 22.2 33.4
229 20.2 16.0 24.0





#33

Chrysene

Concen: 0.361 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

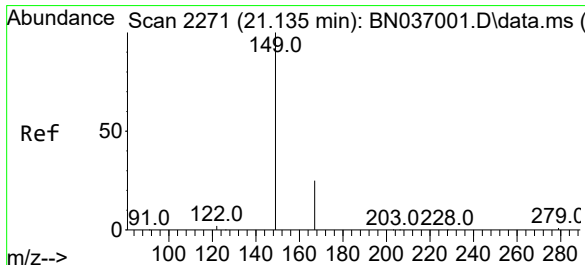
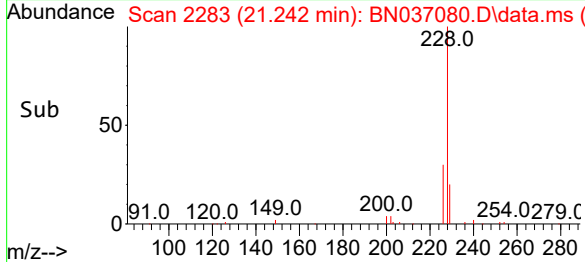
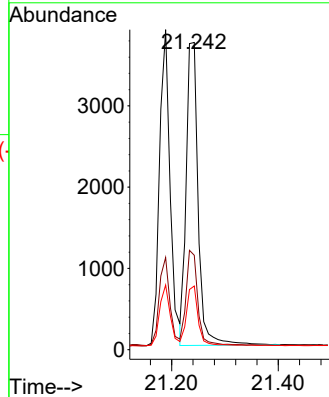
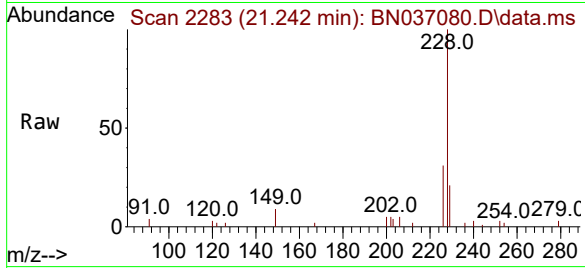
PB168032BS

Tgt Ion:	228	Resp:	5814
Ion Ratio	Lower	Upper	
228	100		
226	30.7	26.3	39.5
229	20.7	16.2	24.2

Manual Integrations
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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.350 ng

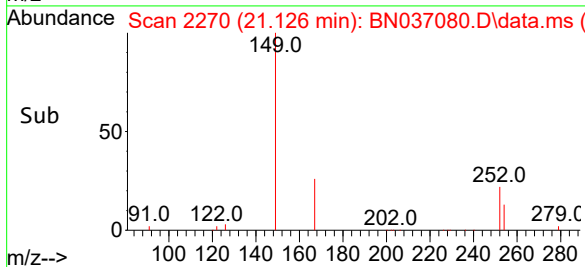
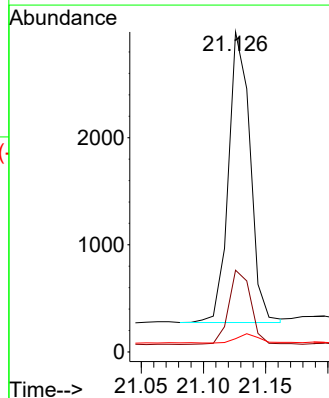
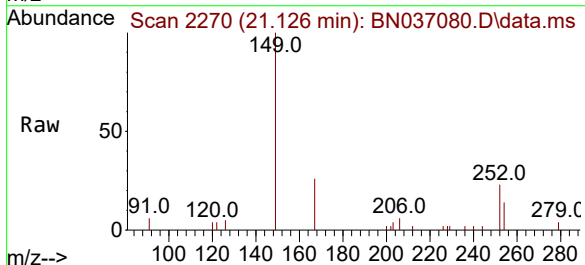
RT: 21.126 min Scan# 2270

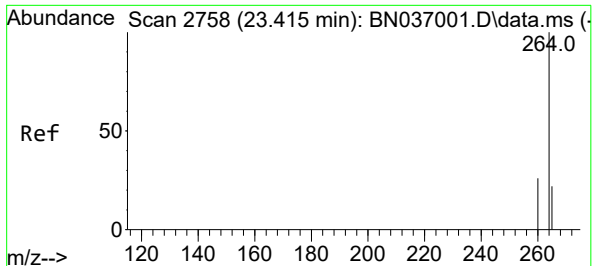
Delta R.T. -0.009 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Tgt Ion:	149	Resp:	3282
Ion Ratio	Lower	Upper	
149	100		
167	26.2	20.6	30.8
279	3.4	2.6	3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.404 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037080.D

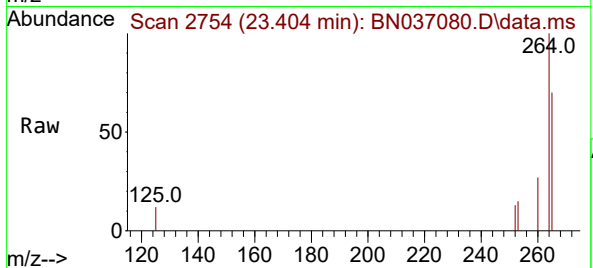
Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS



Tgt Ion:264 Resp: 345

Ion Ratio Lower Upper

264 100

260 27.1 21.9 32.9

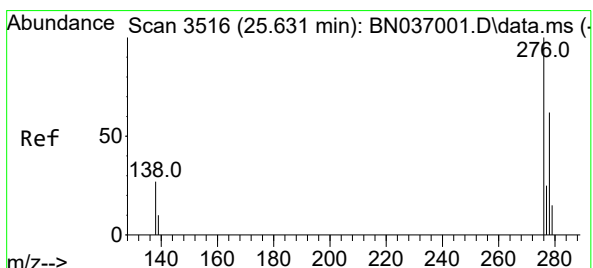
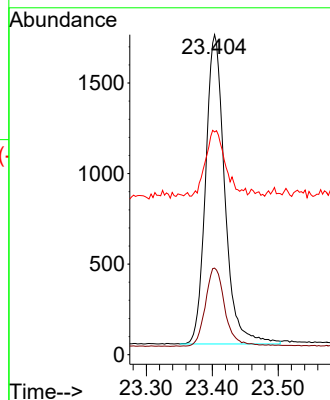
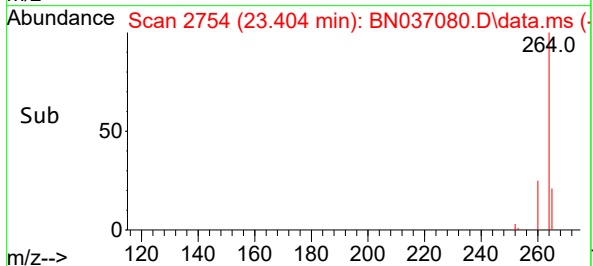
265 69.6 51.6 77.4

Manual Integrations

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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#36

Indeno(1,2,3-cd)pyrene

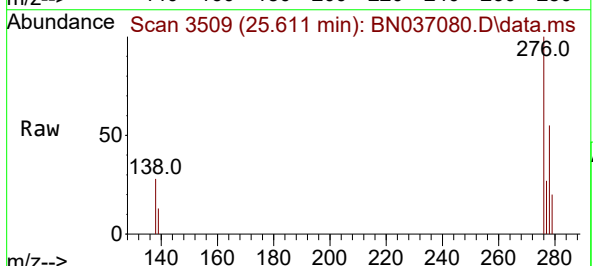
Concen: 0.349 ng

RT: 25.611 min Scan# 3509

Delta R.T. -0.020 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47



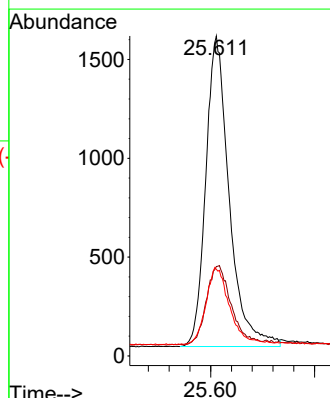
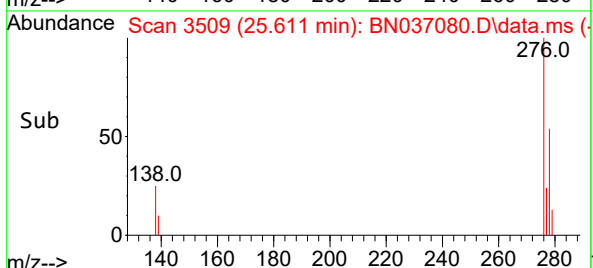
Tgt Ion:276 Resp: 4926

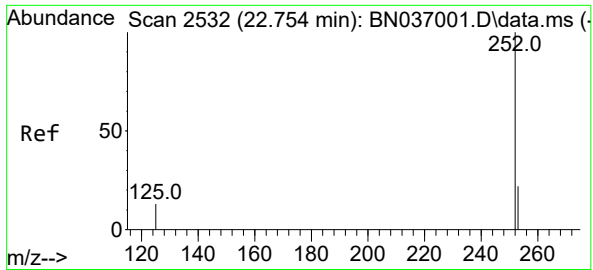
Ion Ratio Lower Upper

276 100

138 26.9 22.7 34.1

277 24.8 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.346 ng

RT: 22.746 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037080.D

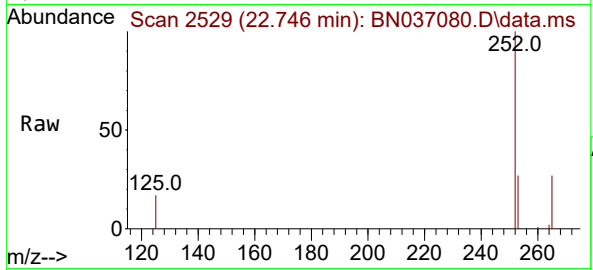
Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS



Tgt Ion:252 Resp: 496

Ion Ratio Lower Upper

252 100

253 27.3 21.8 32.6

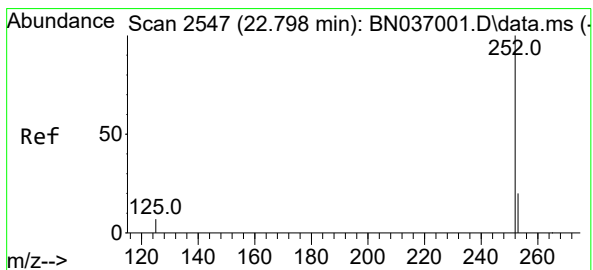
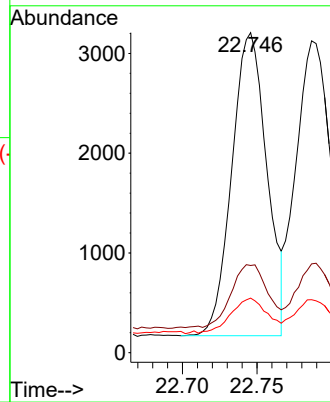
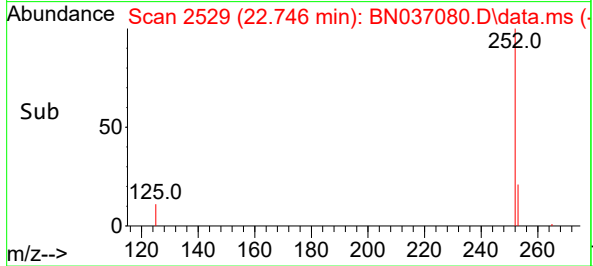
125 17.1 14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#38

Benzo(k)fluoranthene

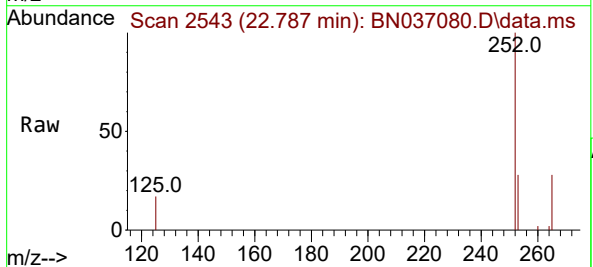
Concen: 0.368 ng

RT: 22.787 min Scan# 2543

Delta R.T. -0.012 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47



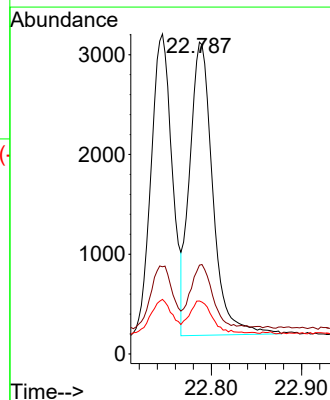
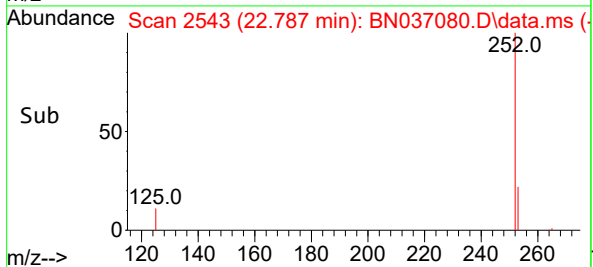
Tgt Ion:252 Resp: 5215

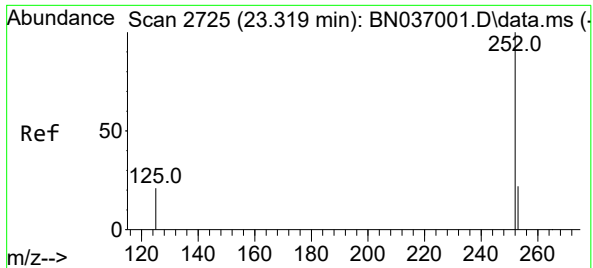
Ion Ratio Lower Upper

252 100

253 28.5 21.4 32.2

125 17.0 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.357 ng

RT: 23.307 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS

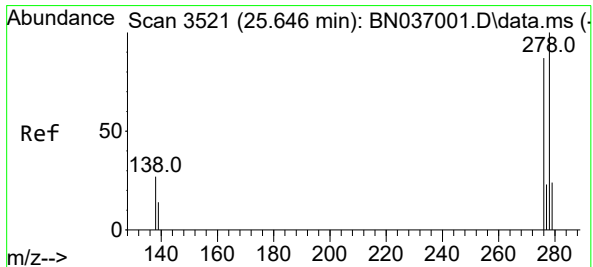
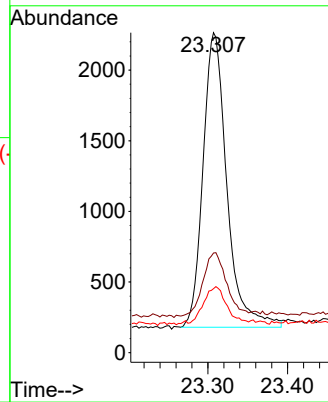
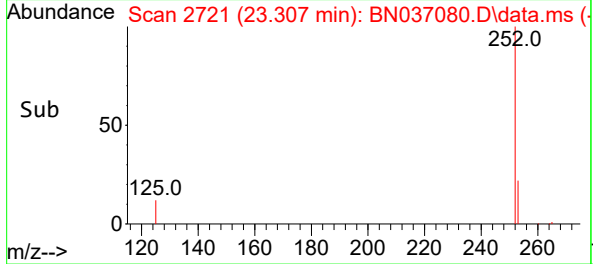
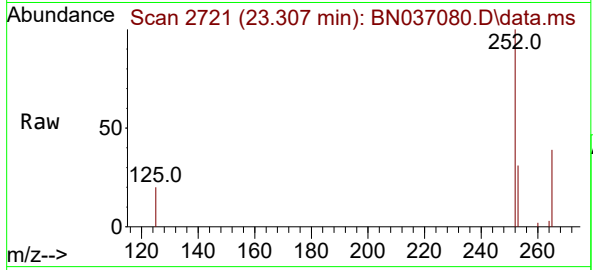
Tgt Ion:	252	Resp:	434
Ion Ratio	Lower	Upper	
252	100		
253	31.2	23.8	35.6
125	20.0	21.8	32.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

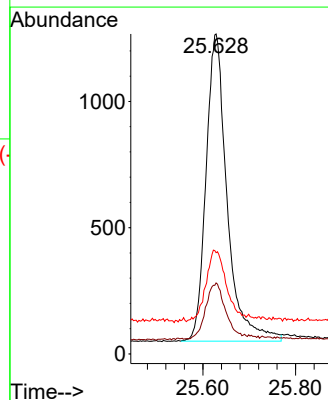
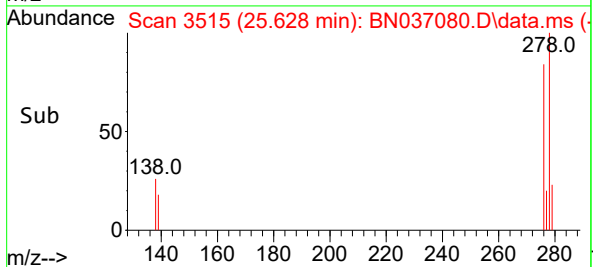
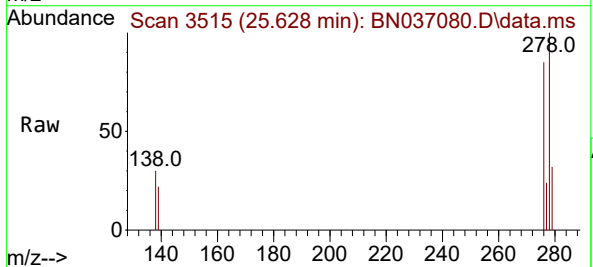
RT: 25.628 min Scan# 3515

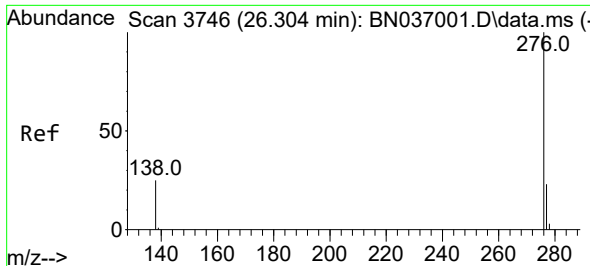
Delta R.T. -0.018 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Tgt Ion:	278	Resp:	3843
Ion Ratio	Lower	Upper	
278	100		
139	22.2	17.4	26.0
279	31.6	24.6	37.0





#41

Benzo(g,h,i)perylene

Concen: 0.350 ng

RT: 26.280 min Scan# 31

Delta R.T. -0.023 min

Lab File: BN037080.D

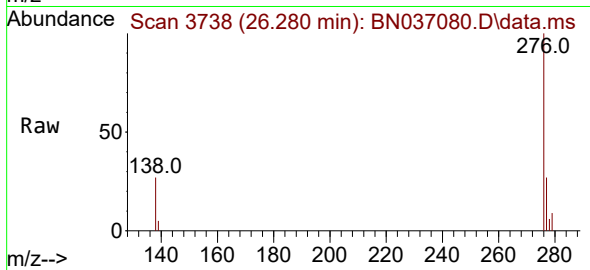
Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS



Tgt Ion:276 Resp: 4175

Ion Ratio Lower Upper

276 100

277 26.7 20.2 30.4

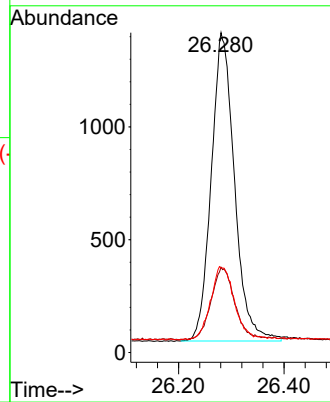
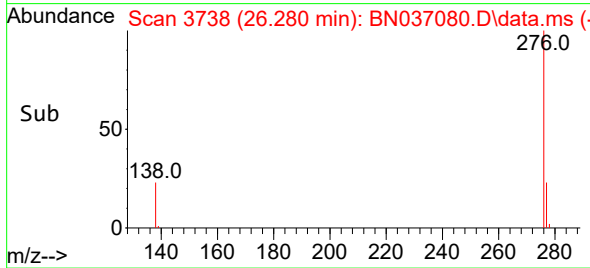
138 26.5 22.0 33.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB168032BSD	SDG No.:	Q2063
Lab Sample ID:	PB168032BSD	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
BN037081.D	1	05/16/25 11:50	05/20/25 19:23	PB168032

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.611				
1146-65-2	Naphthalene-d8	4690	10.394				
15067-26-2	Acenaphthene-d10	2610	14.256				
1517-22-2	Phenanthrene-d10	5110	17.009				
1719-03-5	Chrysene-d12	3650	21.198				
1520-96-3	Perylene-d12	3040	23.401				

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\BN052125\
 Data File : BN037081.D
 Acq On : 20 May 2025 19:23
 Operator : RC/JU
 Sample : PB168032BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BSD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/21/2025
 Supervised By :Jagrut Upadhyay 05/21/2025

Quant Time: May 21 01:39:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1841	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4693	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2613	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5111	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3649	0.400	ng	0.00
35) Perylene-d12	23.401	264	3038	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1702	0.353	ng	0.00
5) Phenol-d6	6.788	99	2053	0.340	ng	0.00
8) Nitrobenzene-d5	8.760	82	1797	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	2601m	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	349	0.304	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	3964	0.331	ng	-0.01
27) Fluoranthene-d10	19.045	212	4622	0.330	ng	0.00
31) Terphenyl-d14	19.649	244	3241	0.415	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.133	88	718	0.318	ng	# 36
3) n-Nitrosodimethylamine	3.444	42	1767	0.364	ng	# 91
6) bis(2-Chloroethyl)ether	7.040	93	1893	0.341	ng	98
9) Naphthalene	10.436	128	4817	0.347	ng	99
10) Hexachlorobutadiene	10.735	225	1123	0.386	ng	# 98
12) 2-Methylnaphthalene	12.062	142	2818	0.316	ng	98
16) Acenaphthylene	13.978	152	4821	0.379	ng	99
17) Acenaphthene	14.320	154	2919	0.351	ng	99
18) Fluorene	15.314	166	3919	0.359	ng	98
20) 4,6-Dinitro-2-methylph...	15.400	198	332	0.342	ng	84
21) 4-Bromophenyl-phenylether	16.202	248	1183	0.366	ng	# 76
22) Hexachlorobenzene	16.313	284	1362	0.394	ng	99
23) Atrazine	16.487	200	1040	0.369	ng	98
24) Pentachlorophenol	16.661	266	701	0.368	ng	98
25) Phenanthrene	17.046	178	6008	0.360	ng	99
26) Anthracene	17.133	178	5559	0.366	ng	99
28) Fluoranthene	19.073	202	6397	0.321	ng	99
30) Pyrene	19.435	202	6454	0.413	ng	100
32) Benzo(a)anthracene	21.189	228	5118	0.373	ng	99
33) Chrysene	21.233	228	5414	0.373	ng	98
34) Bis(2-ethylhexyl)phtha...	21.126	149	3090	0.365	ng	100
36) Indeno(1,2,3-cd)pyrene	25.608	276	4724	0.381	ng	# 83
37) Benzo(b)fluoranthene	22.743	252	4650	0.369	ng	97
38) Benzo(k)fluoranthene	22.787	252	4818	0.387	ng	98
39) Benzo(a)pyrene	23.307	252	4113	0.385	ng	# 92
40) Dibenzo(a,h)anthracene	25.631	278	3637	0.376	ng	98
41) Benzo(g,h,i)perylene	26.286	276	4012	0.382	ng	98

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

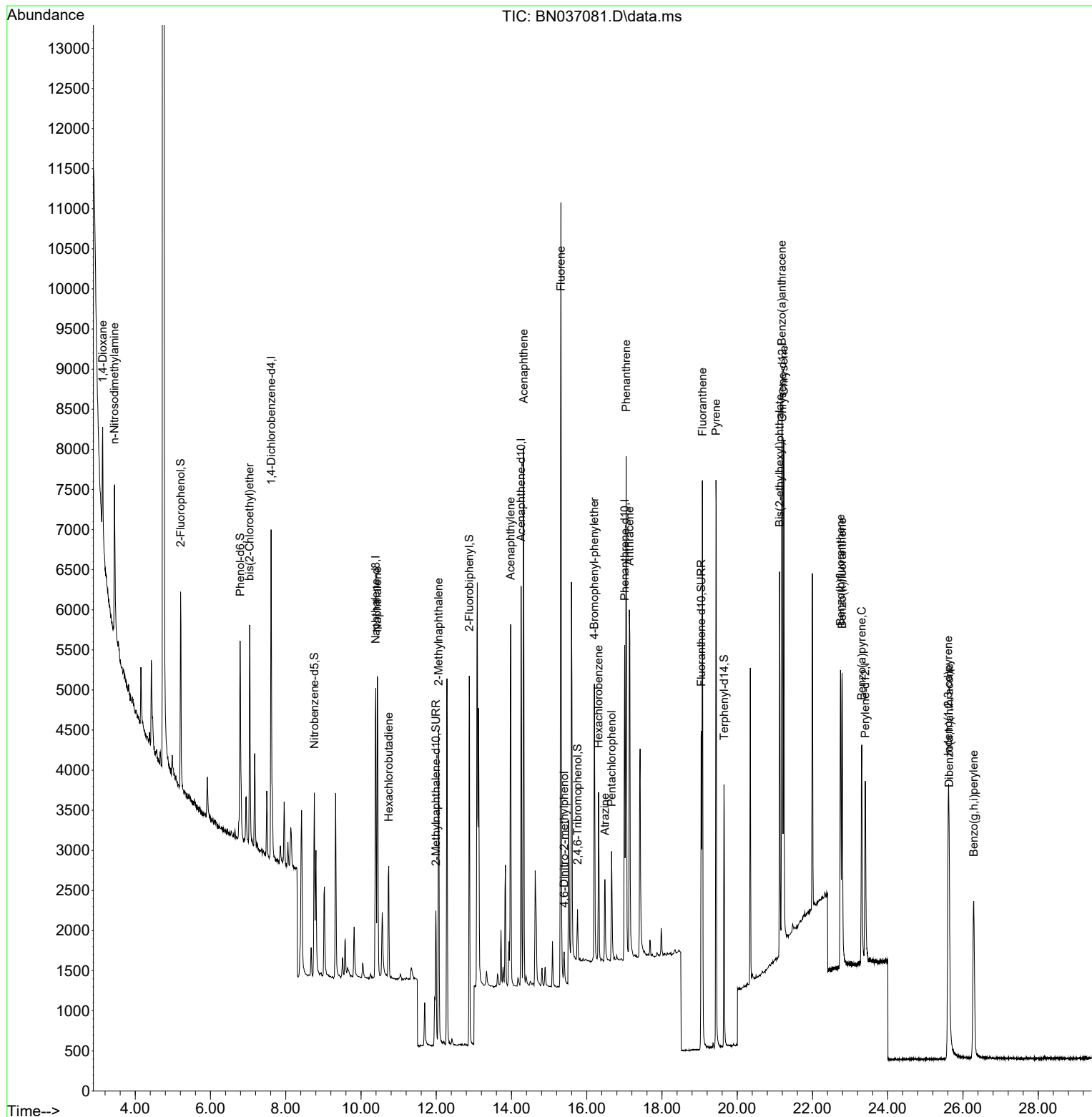
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037081.D
Acq On : 20 May 2025 19:23
Operator : RC/JU
Sample : PB168032BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

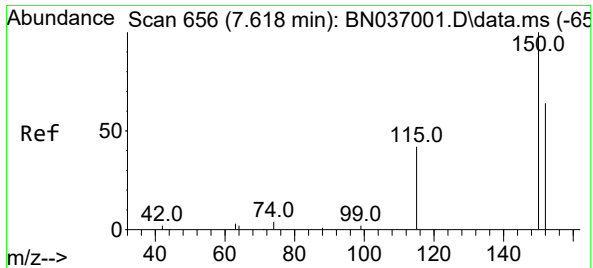
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

Quant Time: May 21 01:39:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025





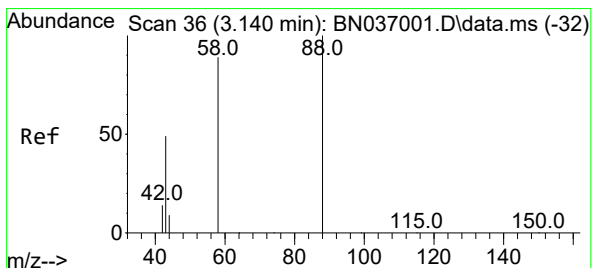
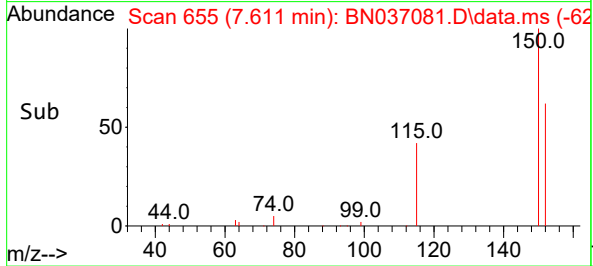
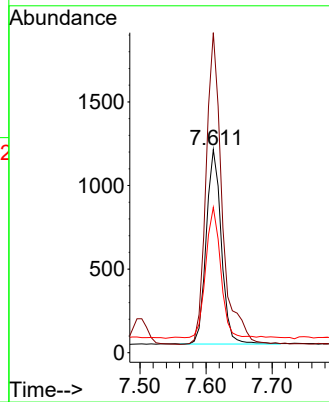
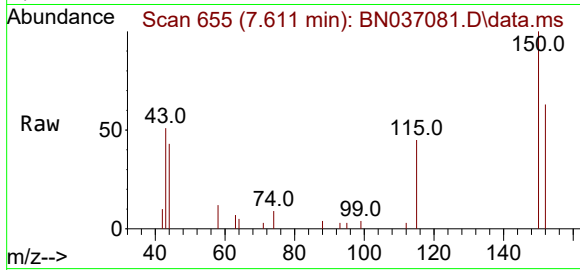
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Instrument :
BNA_N
ClientSampleId :
PB168032BSD

Tgt Ion: 152 Resp: 184
Ion Ratio Lower Upper
152 100
150 157.5 123.9 185.9
115 71.5 55.8 83.8

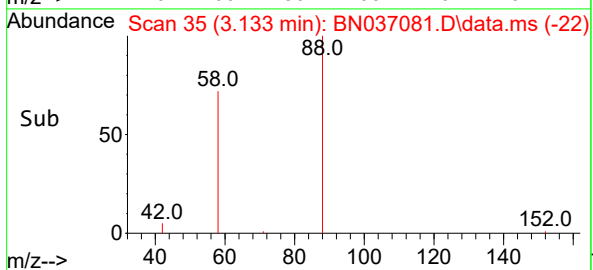
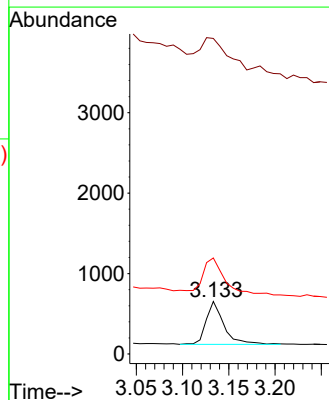
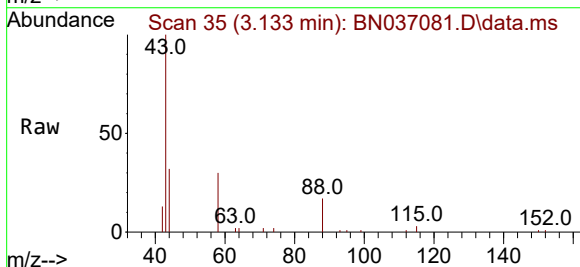
Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

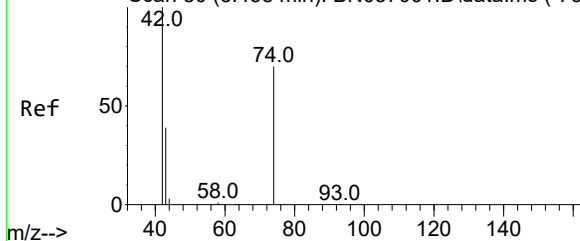


#2
1,4-Dioxane
Concen: 0.318 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion: 88 Resp: 718
Ion Ratio Lower Upper
88 100
43 142.1 37.4 56.0#
58 105.3 68.8 103.2#



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.364 ng

RT: 3.444 min Scan# 7

Delta R.T. -0.014 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

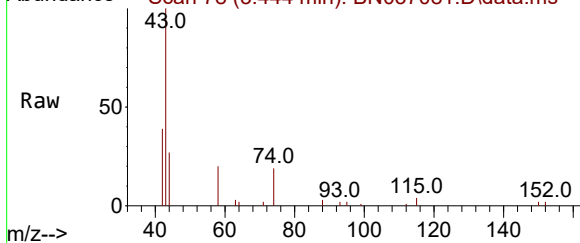
Instrument :

BNA_N

ClientSampleId :

PB168032BSD

Abundance Scan 78 (3.444 min): BN037081.D\data.ms



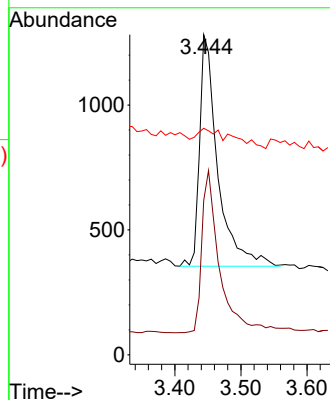
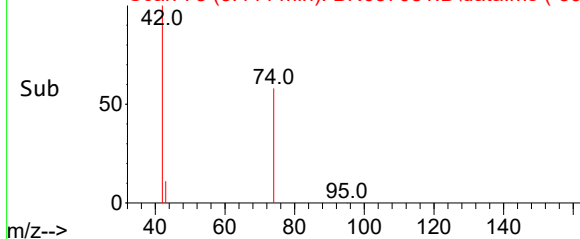
Tgt Ion:	42	Resp:	176
Ion	Ratio	Lower	Upper
42	100		
74	69.3	59.8	89.6
44	5.0	11.9	17.9

Manual Integrations
APPROVED

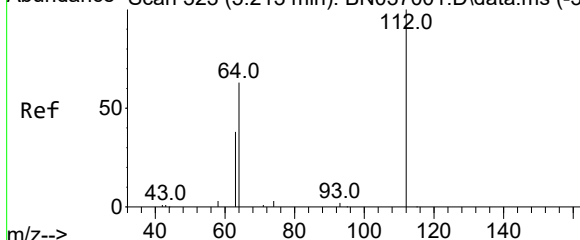
Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025

Abundance Scan 78 (3.444 min): BN037081.D\data.ms (-59)



Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.353 ng

RT: 5.206 min Scan# 322

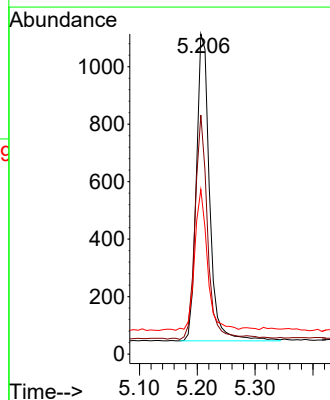
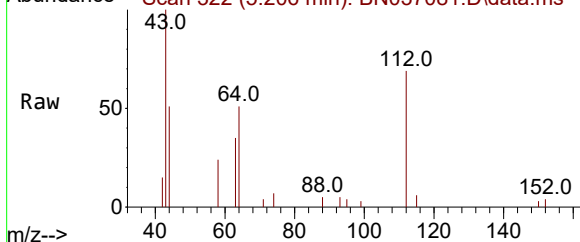
Delta R.T. -0.007 min

Lab File: BN037081.D

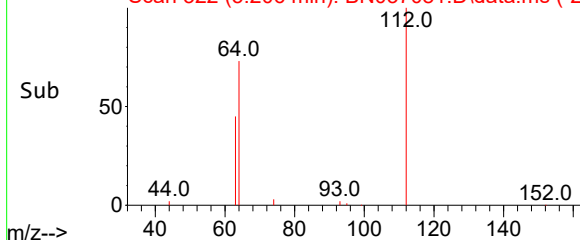
Acq: 20 May 2025 19:23

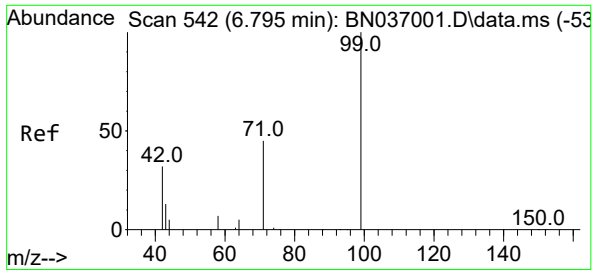
Tgt Ion:	112	Resp:	1702
Ion	Ratio	Lower	Upper
112	100		
64	68.6	55.7	83.5
63	43.6	34.6	51.8

Abundance Scan 322 (5.206 min): BN037081.D\data.ms



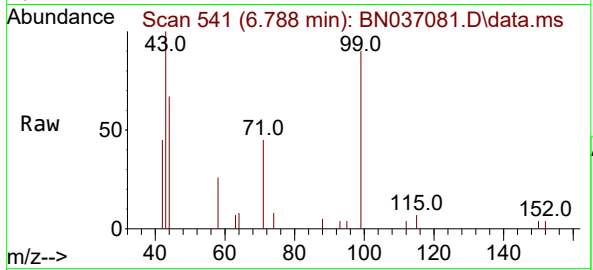
Abundance Scan 322 (5.206 min): BN037081.D\data.ms (-29)





#5
Phenol-d6
Concen: 0.340 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

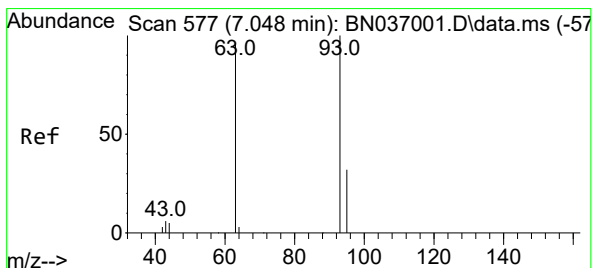
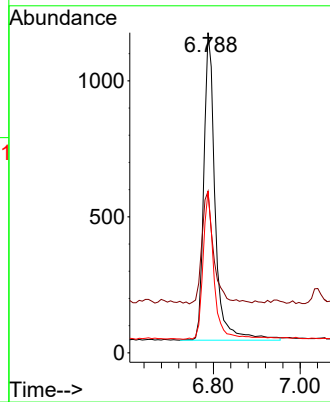
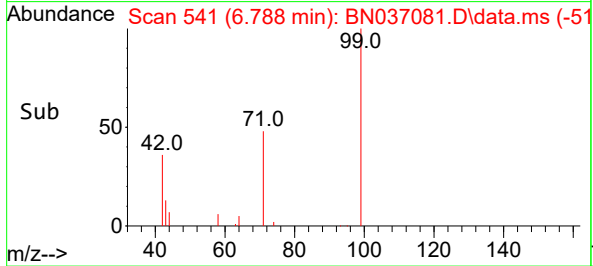
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



Tgt Ion: 99 Resp: 205
Ion Ratio Lower Upper
99 100
42 38.7 29.3 43.9
71 45.7 35.7 53.5

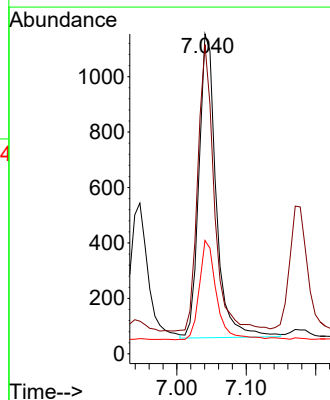
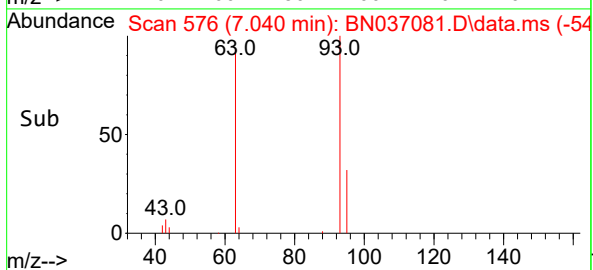
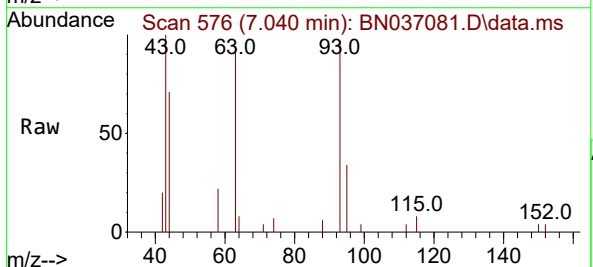
Manual Integrations
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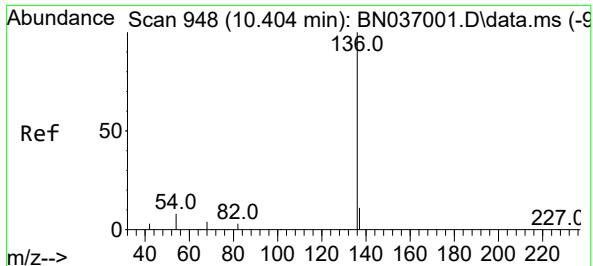
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.341 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion: 93 Resp: 1893
Ion Ratio Lower Upper
93 100
63 89.8 70.1 105.1
95 32.4 26.2 39.2





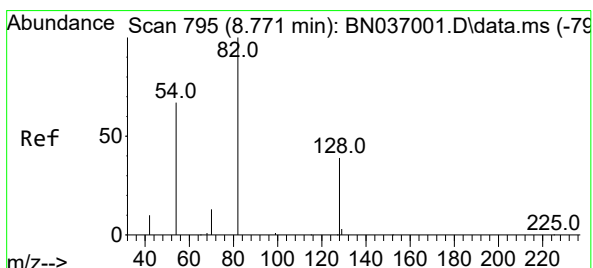
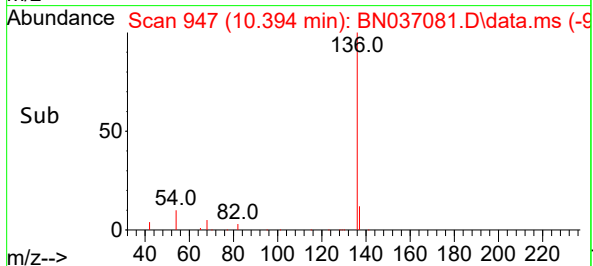
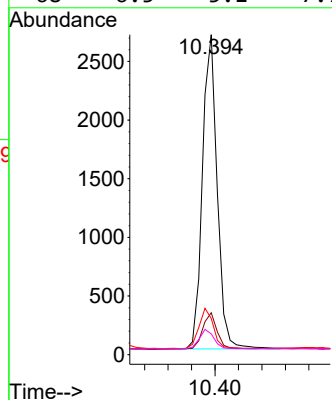
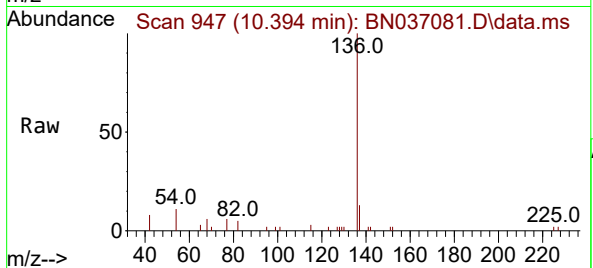
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Instrument :
BNA_N
ClientSampleId :
PB168032BSD

Tgt Ion:136 Resp: 469
Ion Ratio Lower Upper
136 100
137 13.1 10.4 15.6
54 11.3 8.5 12.7
68 6.5 5.1 7.7

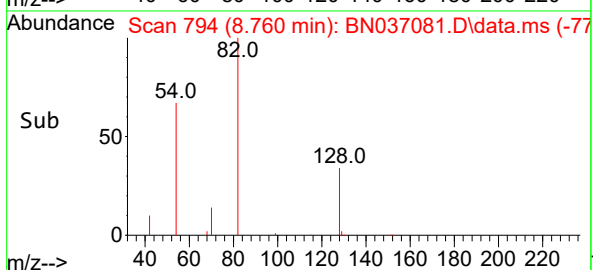
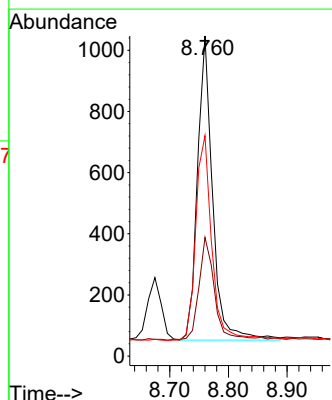
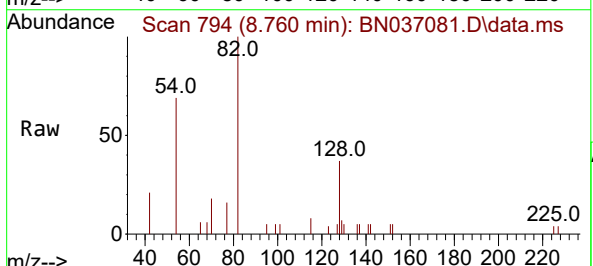
Manual Integrations
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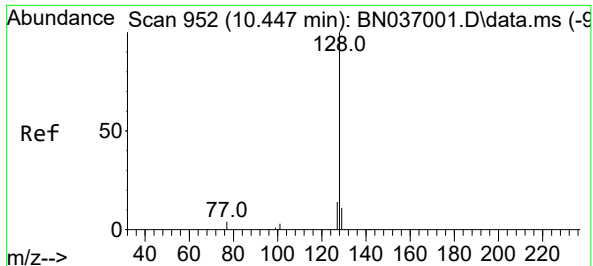
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion: 82 Resp: 1797
Ion Ratio Lower Upper
82 100
128 37.1 34.0 51.0
54 68.9 55.0 82.4





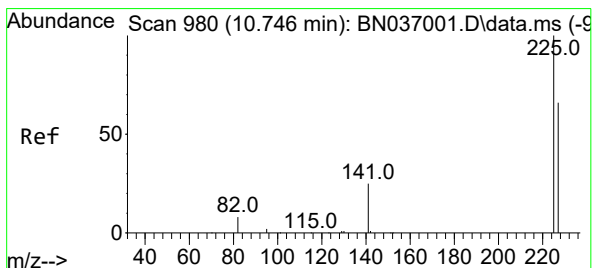
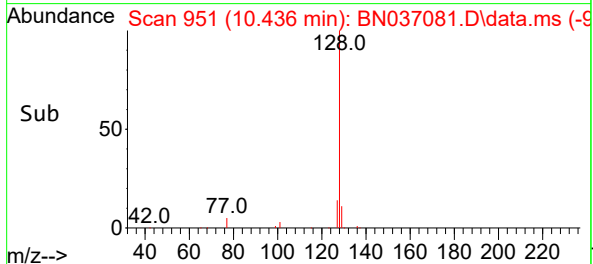
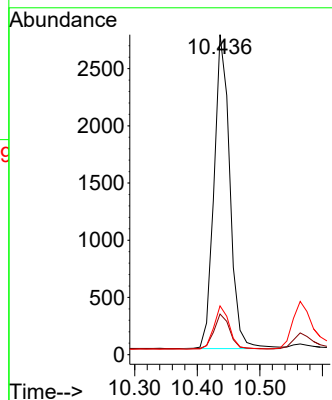
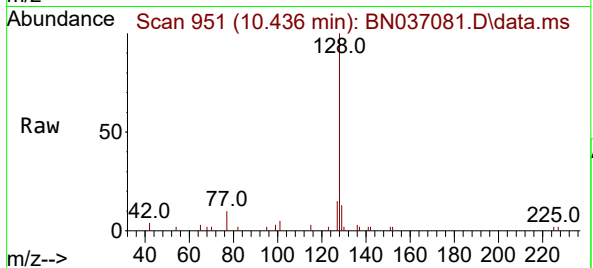
#9
Naphthalene
Concen: 0.347 ng
RT: 10.436 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Instrument :
BNA_N
ClientSampleId :
PB168032BSD

Tgt Ion:128 Resp: 481
Ion Ratio Lower Upper
128 100
129 12.7 9.7 14.5
127 15.2 12.4 18.6

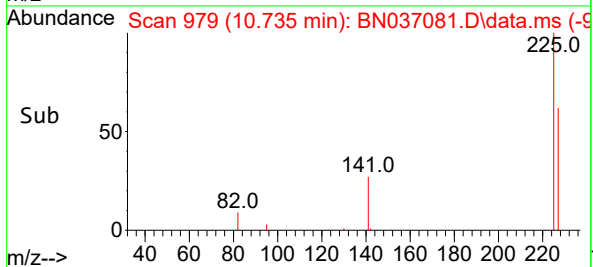
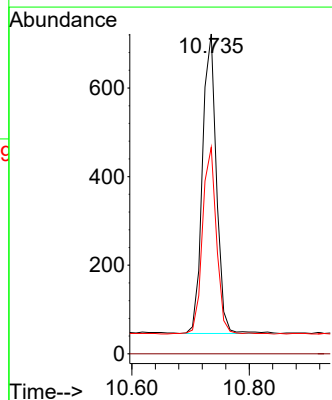
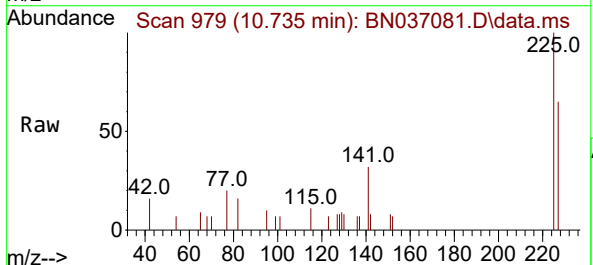
Manual Integrations
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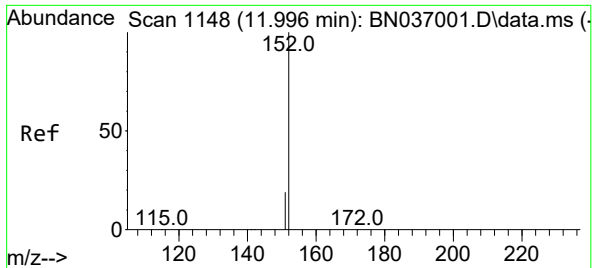
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#10
Hexachlorobutadiene
Concen: 0.386 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

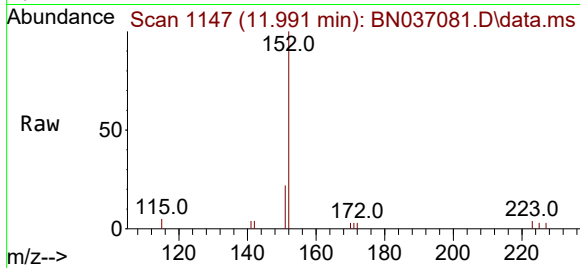
Tgt Ion:225 Resp: 1123
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.2 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.394 ng m
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

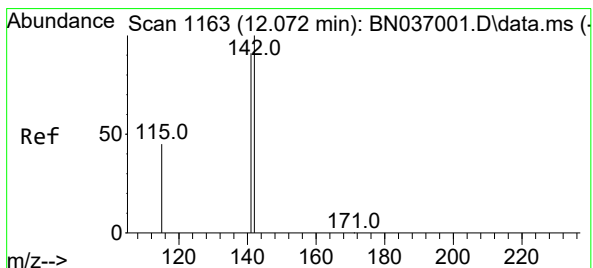
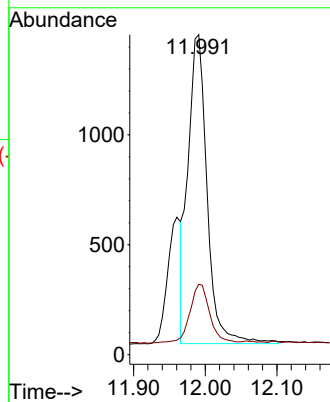
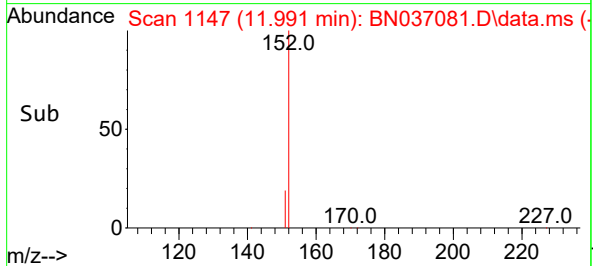
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



Tgt Ion:152 Resp: 260
Ion Ratio Lower Upper
152 100
151 20.1 17.5 26.3

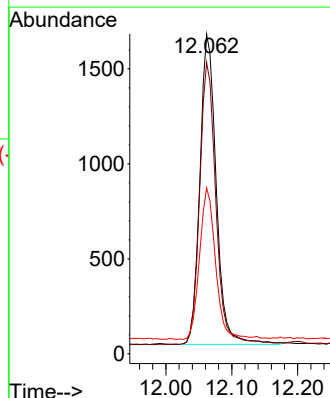
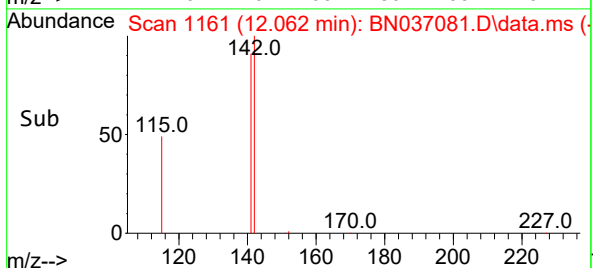
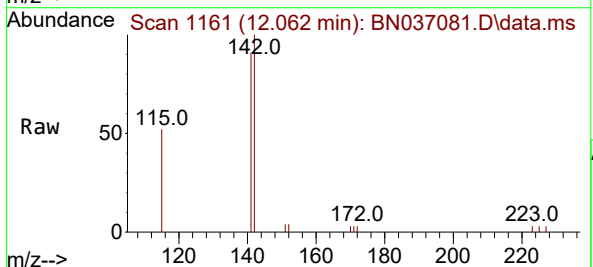
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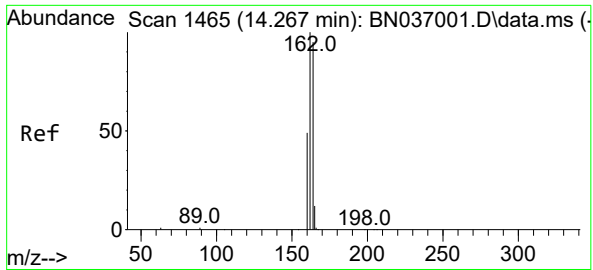
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#12
2-Methylnaphthalene
Concen: 0.316 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

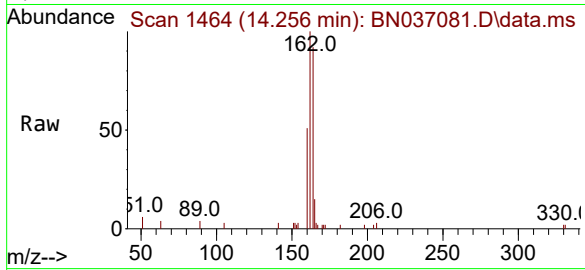
Tgt Ion:142 Resp: 2818
Ion Ratio Lower Upper
142 100
141 91.1 73.3 109.9
115 51.9 38.4 57.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.256 min Scan# 1464
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

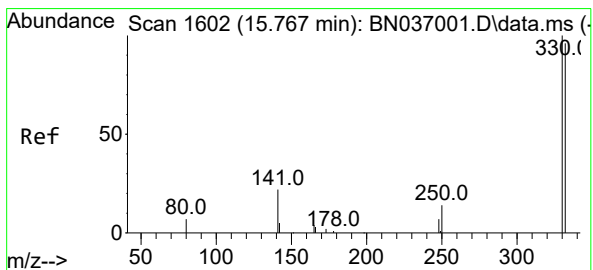
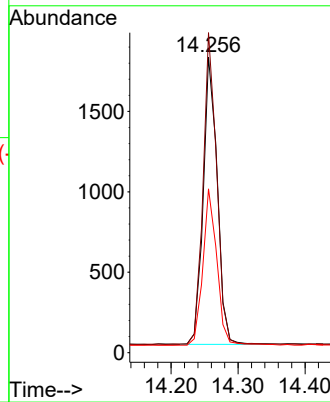
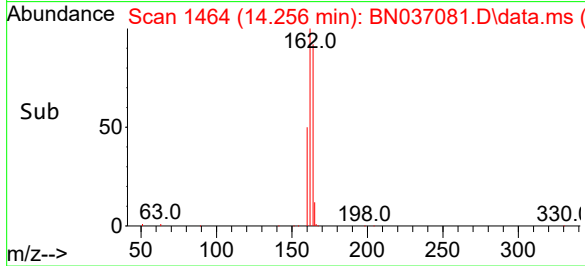
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



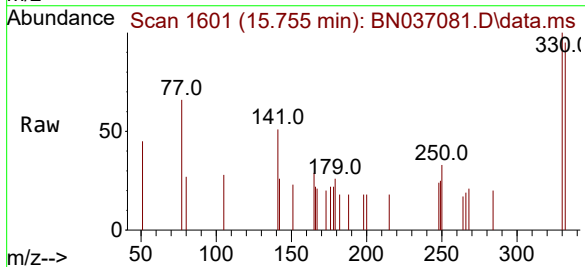
Tgt Ion:164 Resp: 261
Ion Ratio Lower Upper
164 100
162 108.3 84.2 126.4
160 55.4 42.6 63.8

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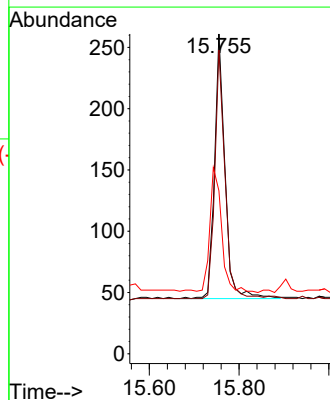
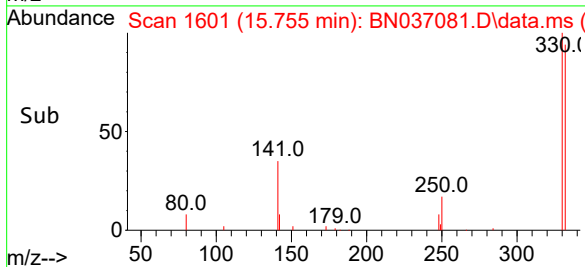
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

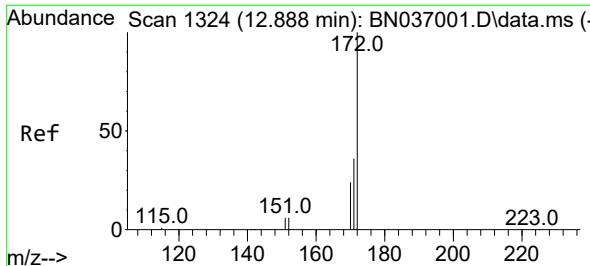


#14
2,4,6-Tribromophenol
Concen: 0.304 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23



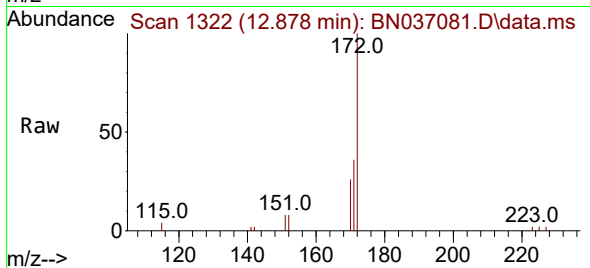
Tgt Ion:330 Resp: 349
Ion Ratio Lower Upper
330 100
332 90.5 73.8 110.8
141 53.0 43.9 65.9





#15
2-Fluorobiphenyl
Concen: 0.331 ng
RT: 12.878 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

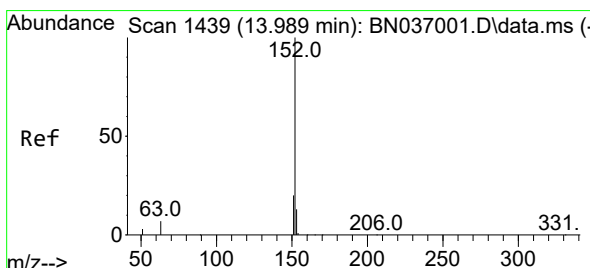
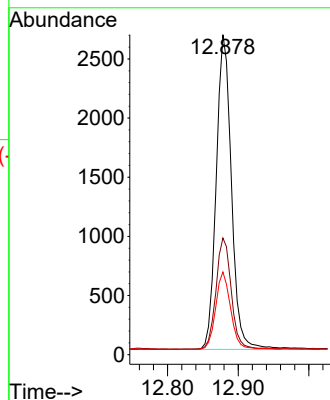
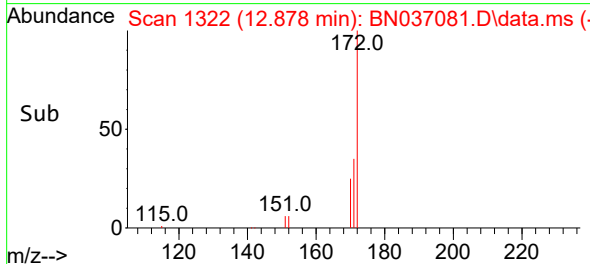
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



Tgt Ion:172 Resp: 3964
Ion Ratio Lower Upper
172 100
171 36.5 29.2 43.8
170 25.8 20.5 30.7

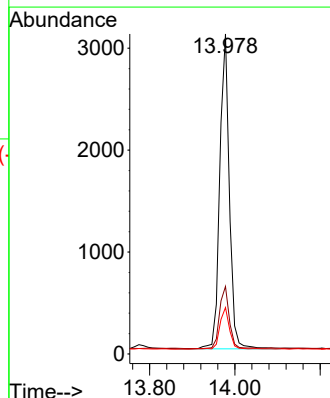
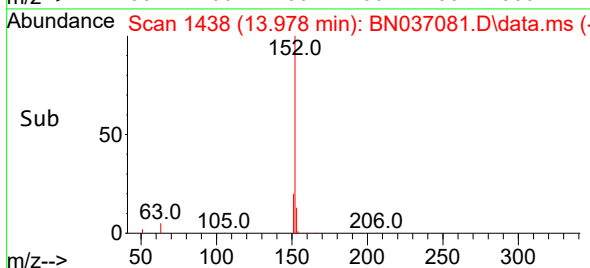
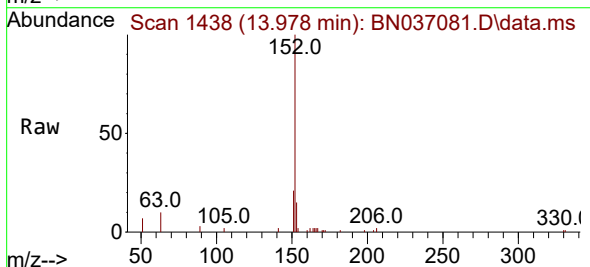
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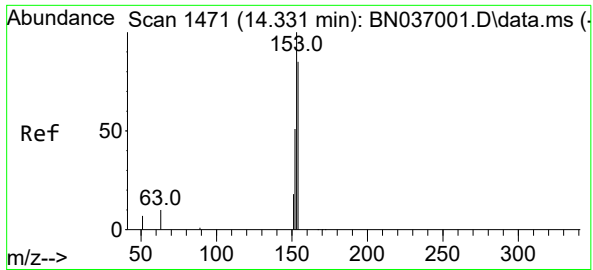
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

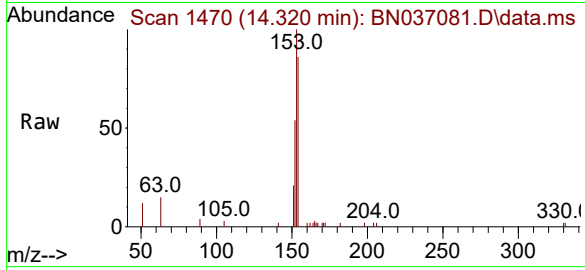
Tgt Ion:152 Resp: 4821
Ion Ratio Lower Upper
152 100
151 20.0 16.1 24.1
153 13.6 10.5 15.7





#17
Acenaphthene
Concen: 0.351 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

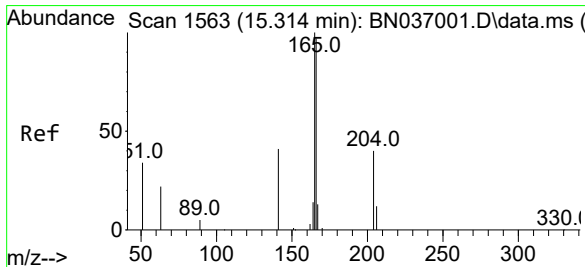
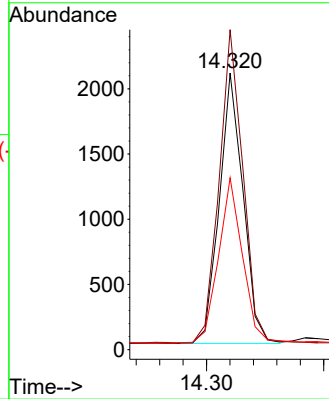
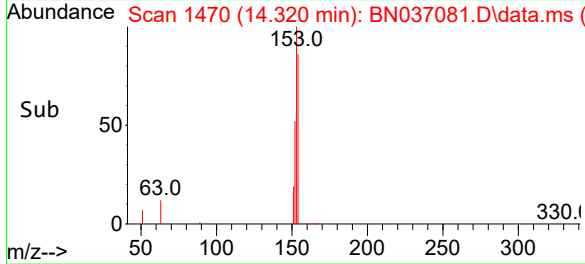
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



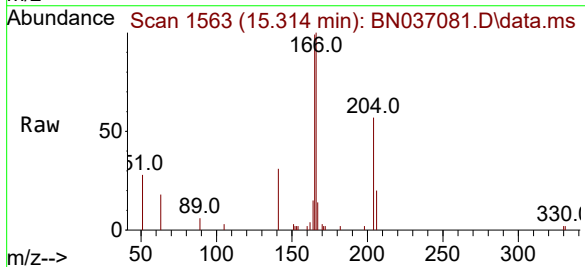
Tgt Ion:154 Resp: 2919
Ion Ratio Lower Upper
154 100
153 116.8 94.2 141.4
152 62.4 49.4 74.0

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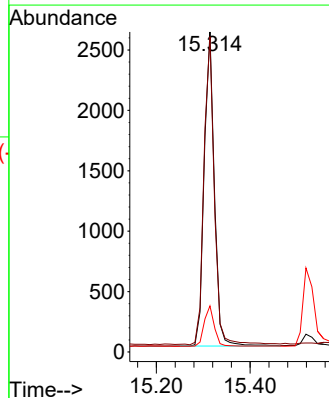
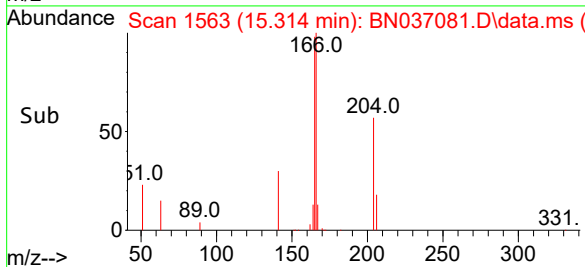
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

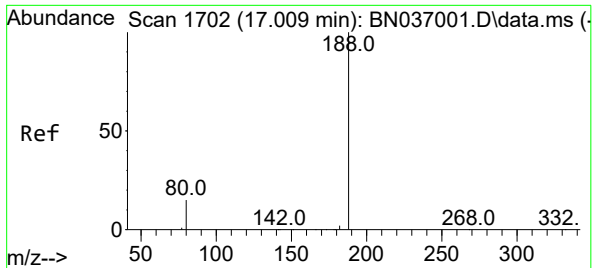


#18
Fluorene
Concen: 0.359 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23



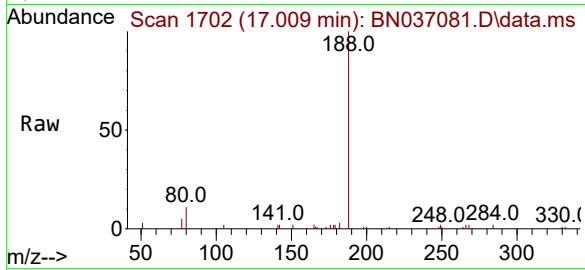
Tgt Ion:166 Resp: 3919
Ion Ratio Lower Upper
166 100
165 98.9 80.6 120.8
167 12.9 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

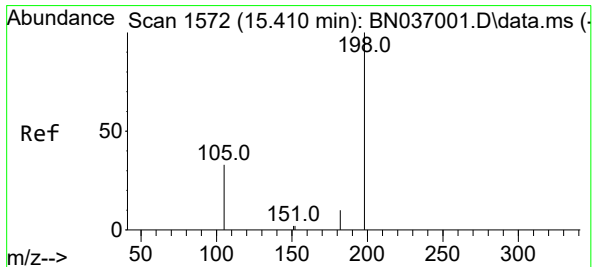
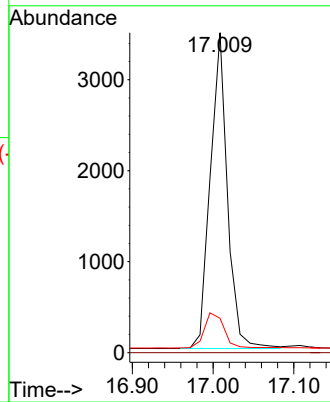
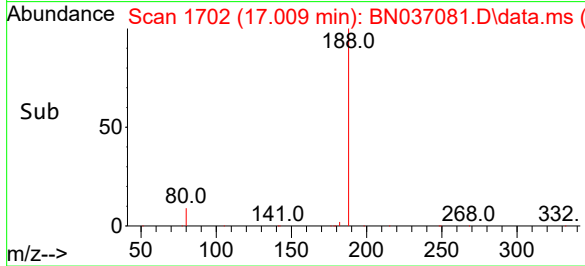
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



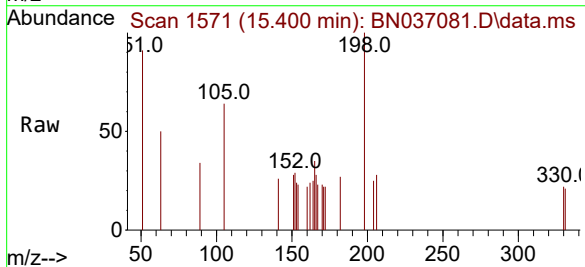
Tgt Ion:188 Resp: 511
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.7 13.4 20.0

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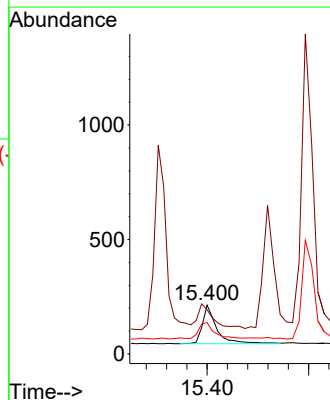
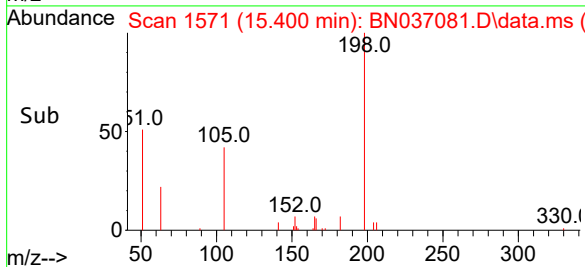
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

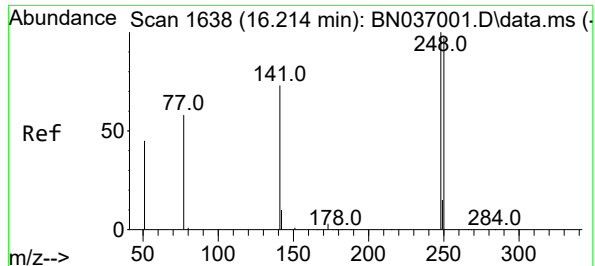


#20
4,6-Dinitro-2-methylphenol
Concen: 0.342 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23



Tgt Ion:198 Resp: 332
Ion Ratio Lower Upper
198 100
51 90.6 87.8 131.6
105 64.3 44.2 66.4





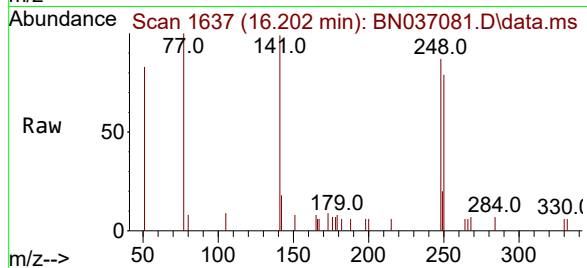
#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

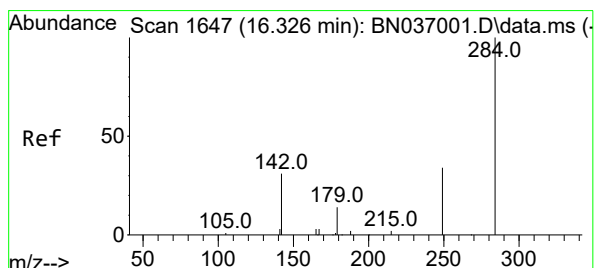
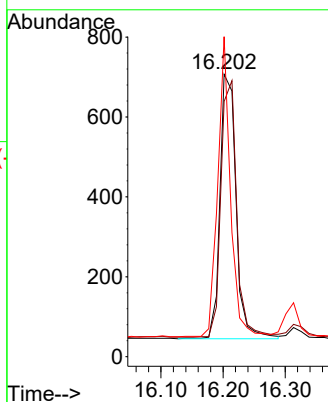
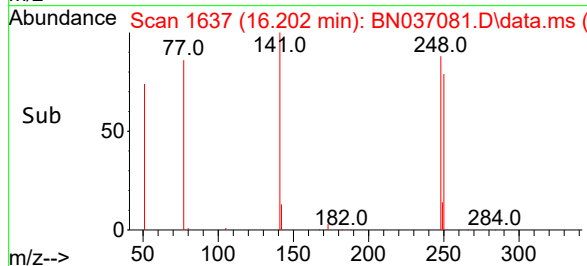
PB168032BSD



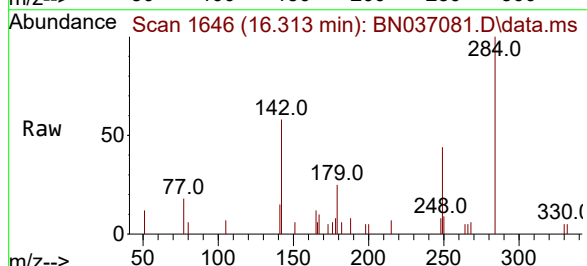
Tgt Ion:248 Resp: 118
Ion Ratio Lower Upper
248 100
250 90.4 78.1 117.1
141 113.3 59.7 89.5

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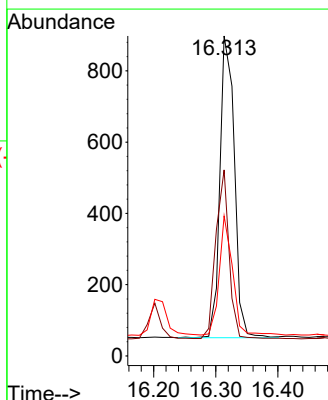
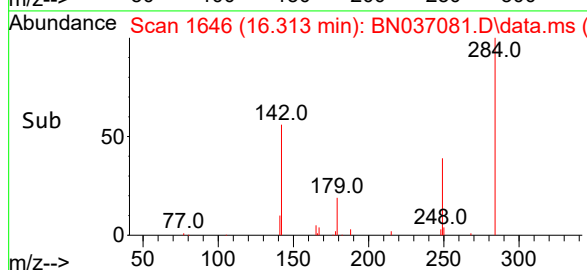
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

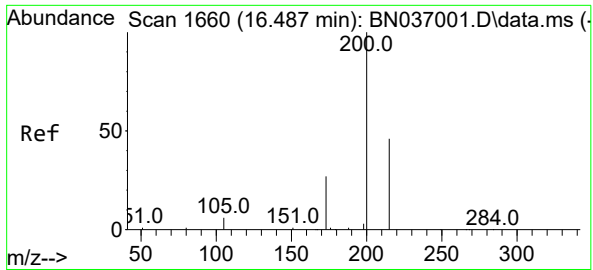


#22
Hexachlorobenzene
Concen: 0.394 ng
RT: 16.313 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23



Tgt Ion:284 Resp: 1362
Ion Ratio Lower Upper
284 100
142 51.8 41.2 61.8
249 36.6 28.7 43.1





#23

Atrazine

Concen: 0.369 ng

RT: 16.487 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD

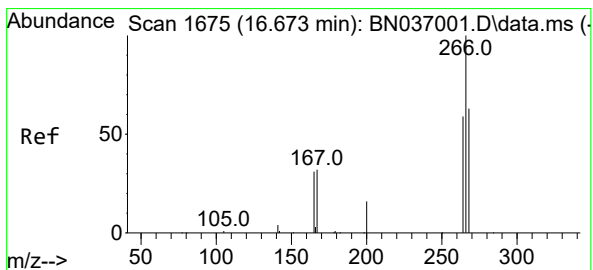
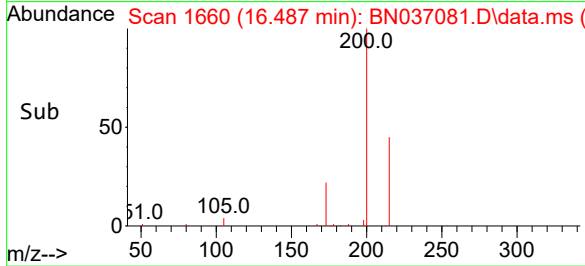
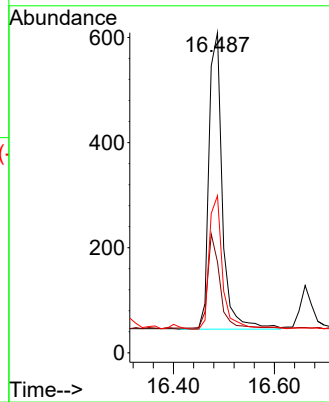
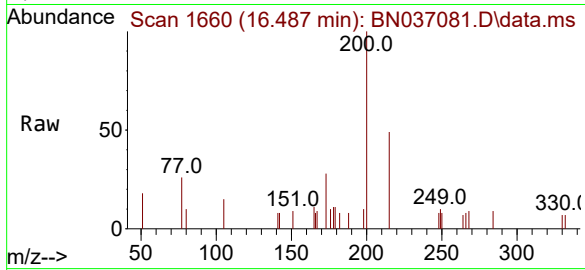
Tgt Ion:	200	Resp:	1040
Ion Ratio	Lower	Upper	
200	100		
173	28.4	25.2	37.8
215	49.1	39.3	58.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#24

Pentachlorophenol

Concen: 0.368 ng

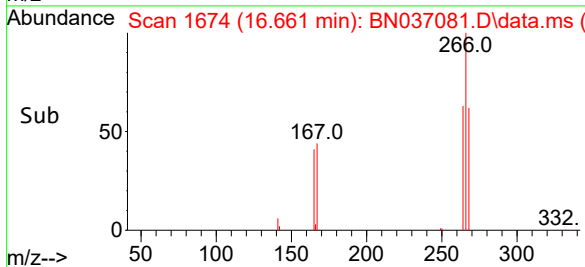
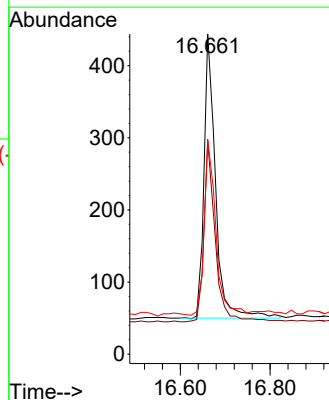
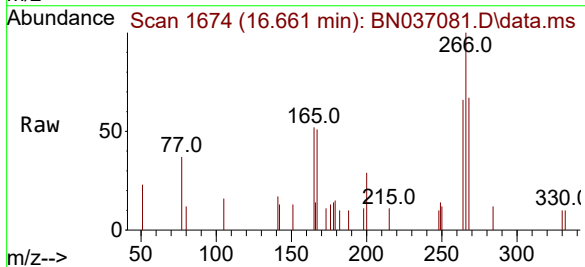
RT: 16.661 min Scan# 1674

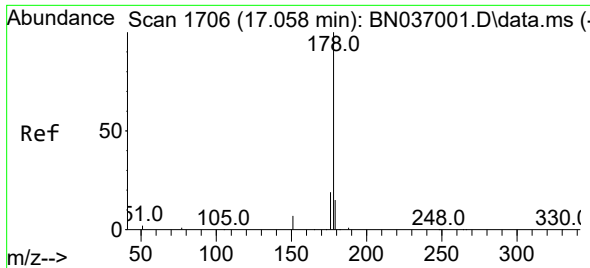
Delta R.T. -0.012 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

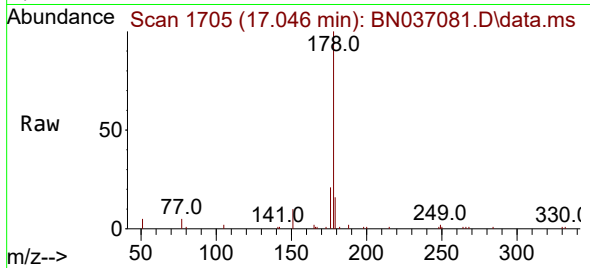
Tgt Ion:	266	Resp:	701
Ion Ratio	Lower	Upper	
266	100		
264	61.8	47.9	71.9
268	63.1	50.0	75.0





#25
Phenanthrene
Concen: 0.360 ng
RT: 17.046 min Scan# 1711
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

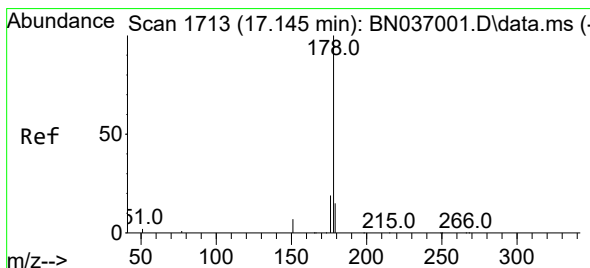
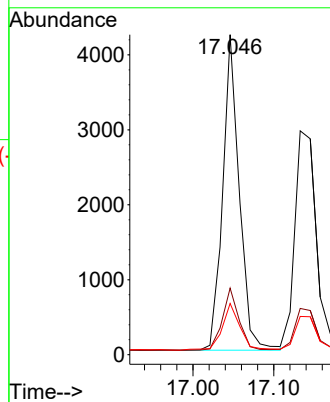
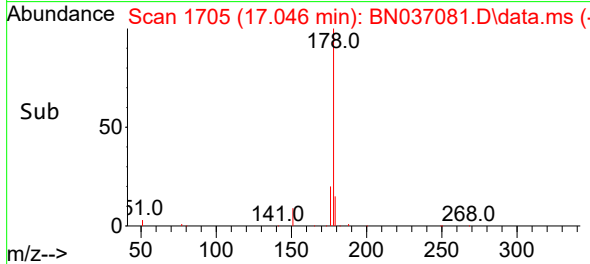
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



Tgt Ion:178 Resp: 6008
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.8 12.2 18.2

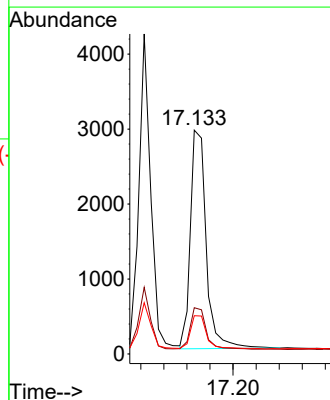
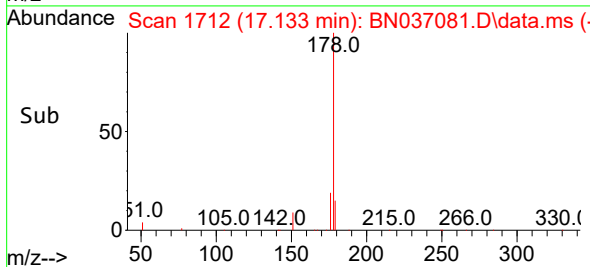
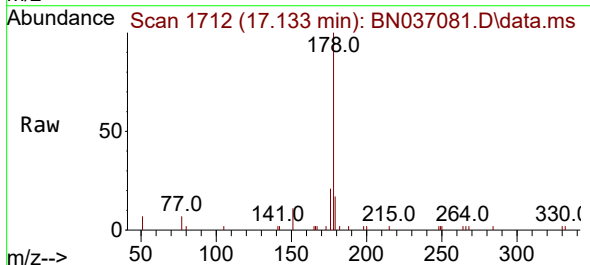
Manual Integrations
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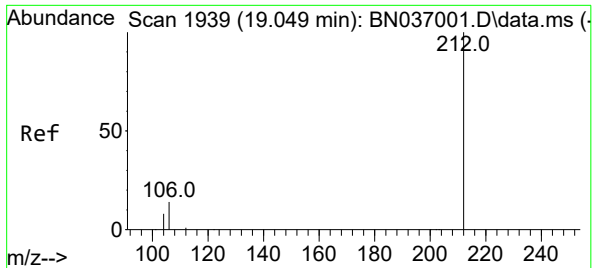
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#26
Anthracene
Concen: 0.366 ng
RT: 17.133 min Scan# 1712
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:178 Resp: 5559
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.8 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.330 ng

RT: 19.045 min Scan# 1939

Delta R.T. -0.005 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

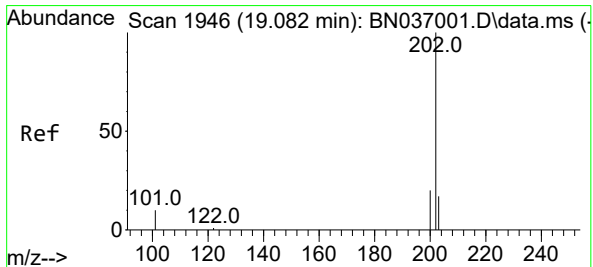
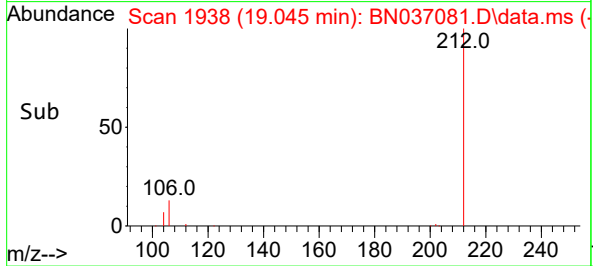
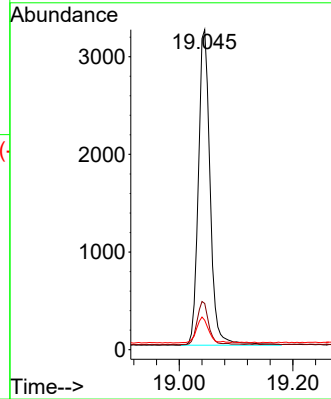
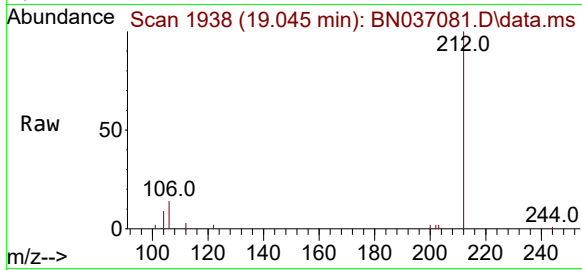
PB168032BSD

Tgt Ion:	212	Resp:	462
Ion Ratio	Lower	Upper	
212	100		
106	13.8	11.3	16.9
104	8.5	6.7	10.1

Manual Integrations
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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#28

Fluoranthene

Concen: 0.321 ng

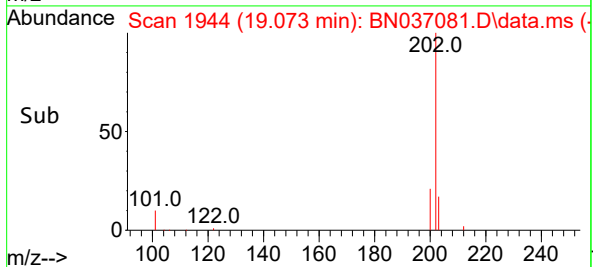
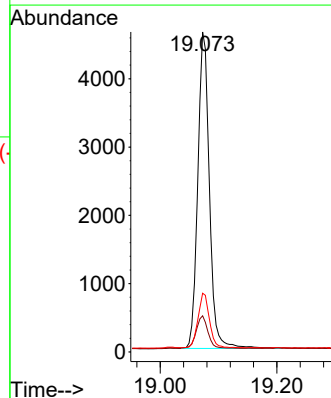
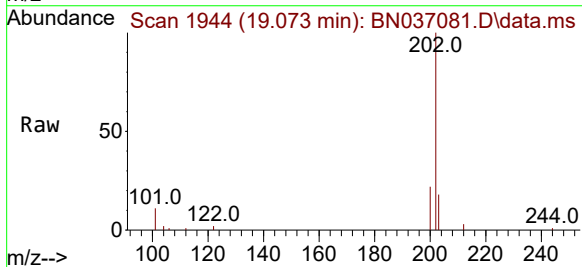
RT: 19.073 min Scan# 1944

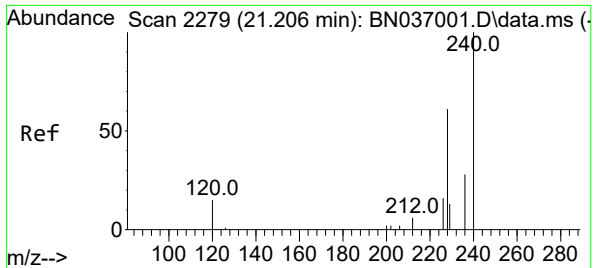
Delta R.T. -0.009 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Tgt Ion:	202	Resp:	6397
Ion Ratio	Lower	Upper	
202	100		
101	10.3	8.9	13.3
203	17.0	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD

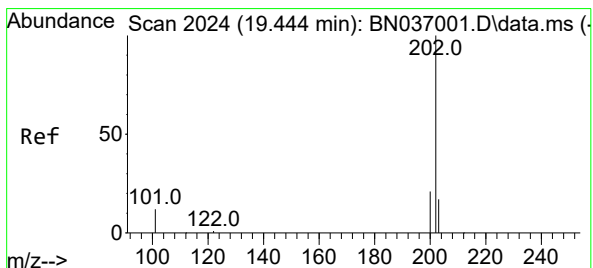
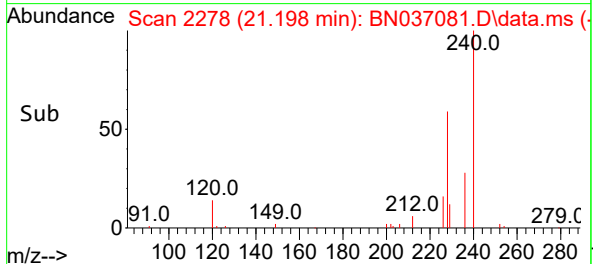
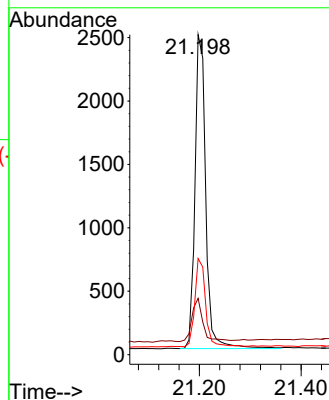
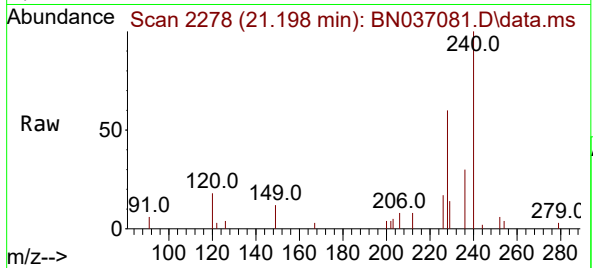
Tgt Ion:	240	Resp:	3649
Ion Ratio	Lower	Upper	
240	100		
120	17.6	15.1	22.7
236	30.0	24.0	36.0

Manual Integrations

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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#30

Pyrene

Concen: 0.413 ng

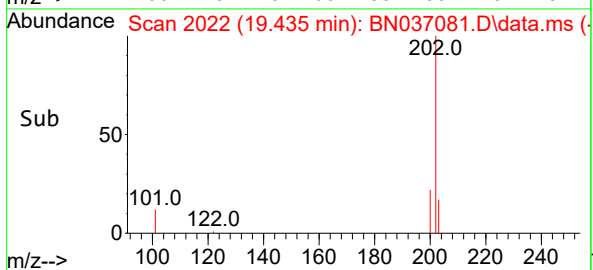
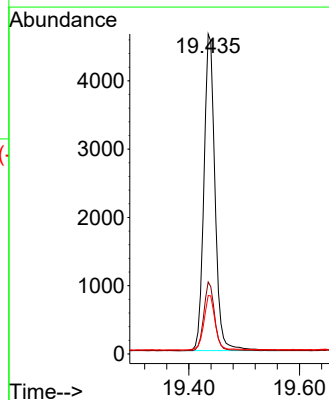
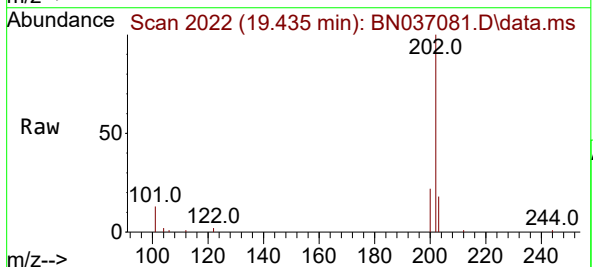
RT: 19.435 min Scan# 2022

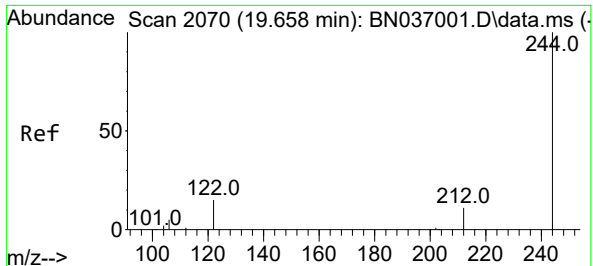
Delta R.T. -0.009 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Tgt Ion:	202	Resp:	6454
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.1	25.7
203	17.4	14.2	21.4





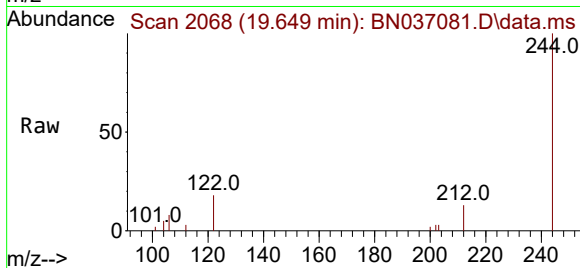
#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.649 min Scan# 2068
Delta R.T. -0.009 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD



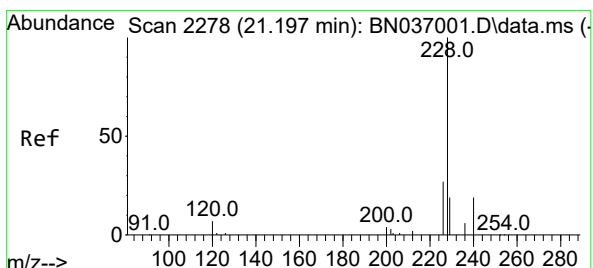
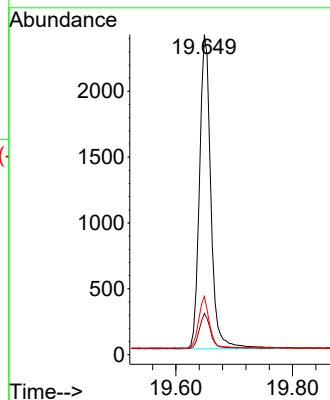
Tgt Ion:244 Resp: 324
Ion Ratio Lower Upper
244 100
212 12.9 9.7 14.5
122 18.2 13.4 20.0

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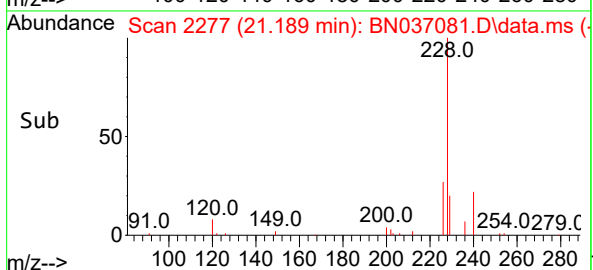
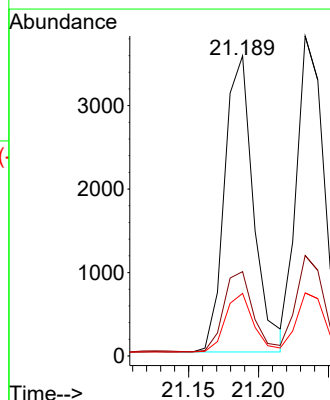
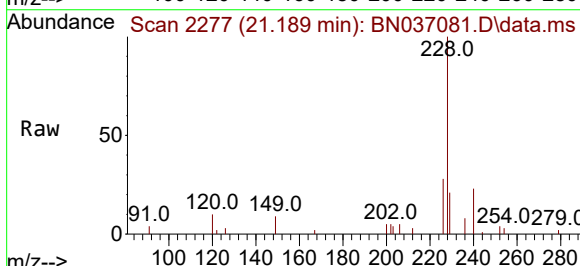
Reviewed By :Rahul Chavli 05/21/2025

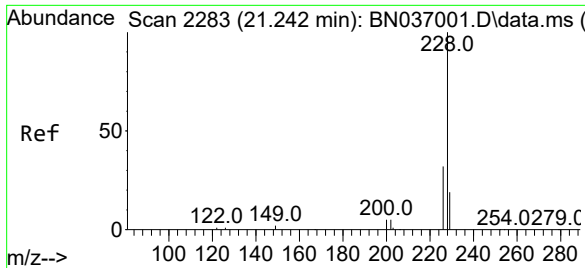
Supervised By :Jagrut Upadhyay 05/21/2025



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:228 Resp: 5118
Ion Ratio Lower Upper
228 100
226 28.1 22.2 33.4
229 20.8 16.0 24.0





#33

Chrysene

Concen: 0.373 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

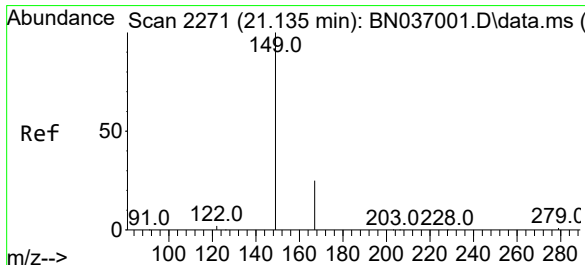
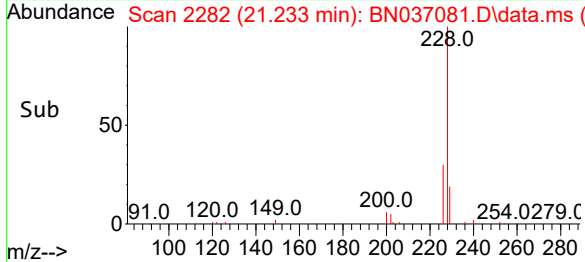
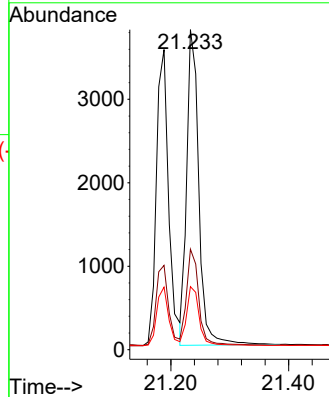
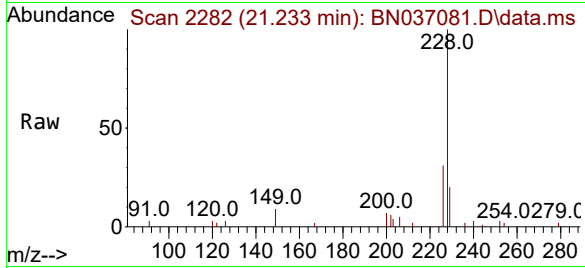
PB168032BSD

Tgt Ion:	228	Resp:	5414
Ion Ratio	Lower	Upper	
228	100		
226	31.4	26.3	39.5
229	19.7	16.2	24.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.365 ng

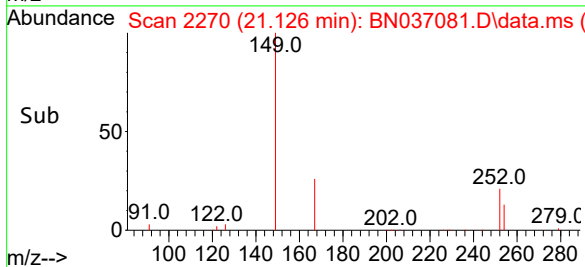
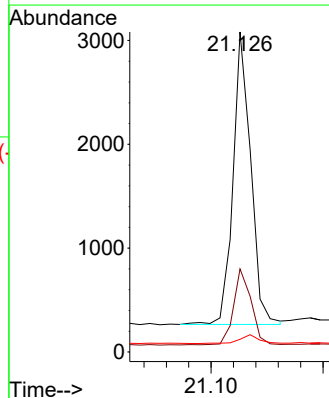
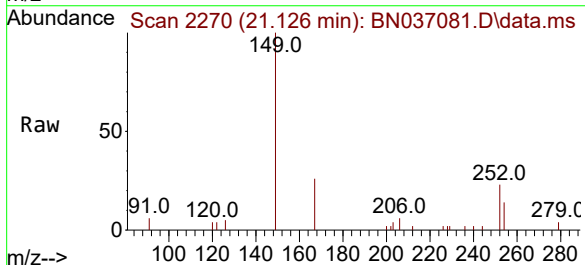
RT: 21.126 min Scan# 2270

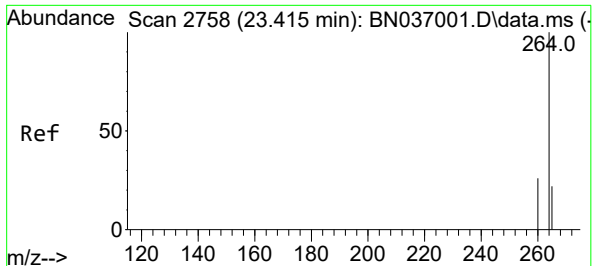
Delta R.T. -0.009 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Tgt Ion:	149	Resp:	3090
Ion Ratio	Lower	Upper	
149	100		
167	26.0	20.6	30.8
279	3.3	2.6	3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.401 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD

Tgt Ion:264 Resp: 3038

Ion Ratio Lower Upper

264 100

260 26.8 21.9 32.9

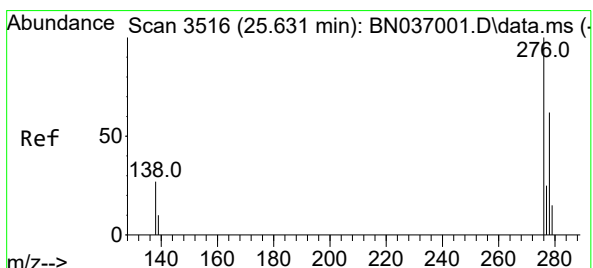
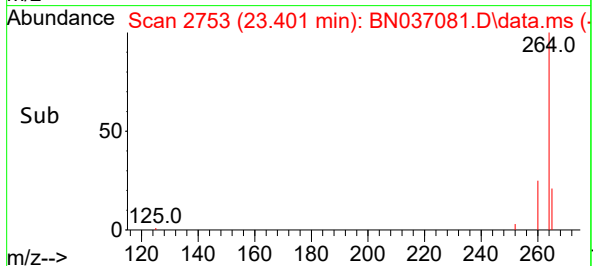
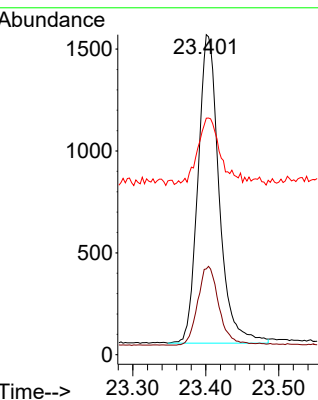
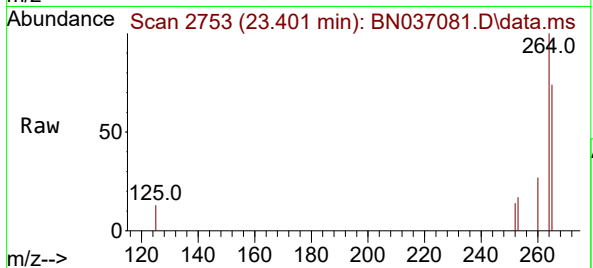
265 73.9 51.6 77.4

Manual Integrations

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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.381 ng

RT: 25.608 min Scan# 3508

Delta R.T. -0.023 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

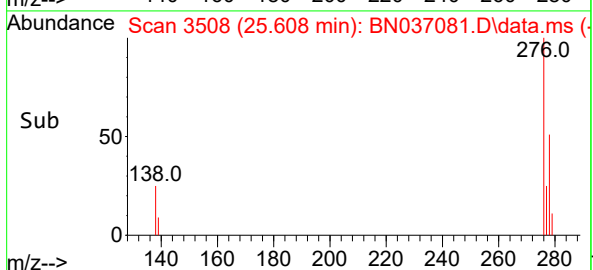
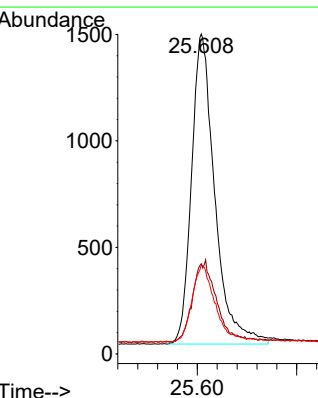
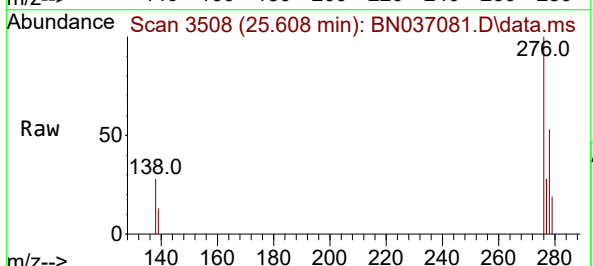
Tgt Ion:276 Resp: 4724

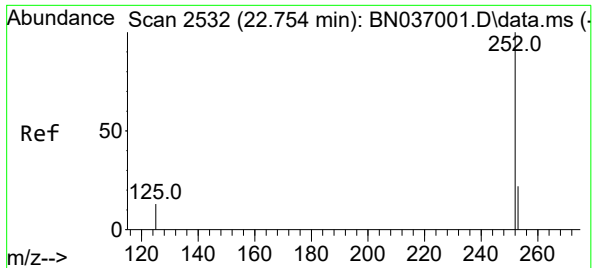
Ion Ratio Lower Upper

276 100

138 12.2 22.7 34.1#

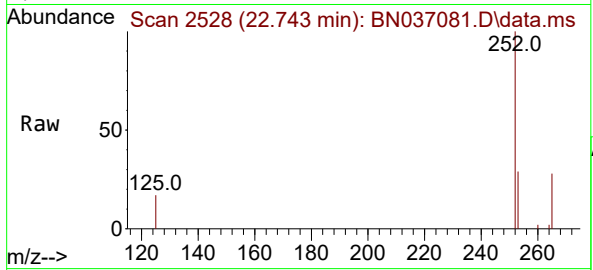
277 24.8 20.0 30.0





#37
Benzo(b)fluoranthene
Concen: 0.369 ng
RT: 22.743 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

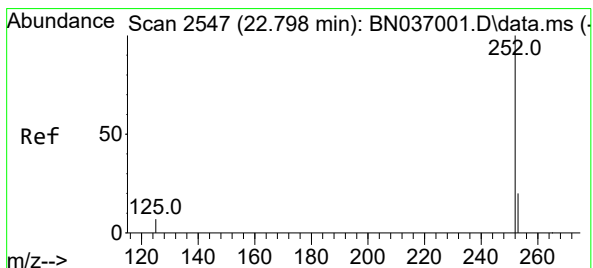
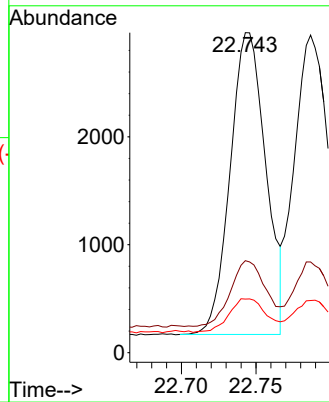
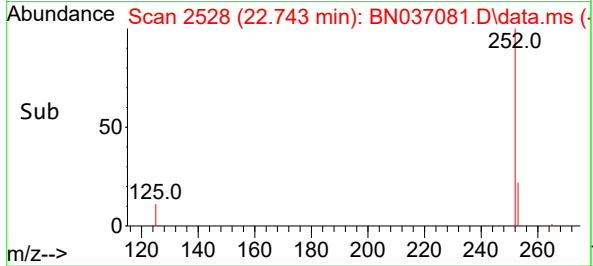
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



Tgt Ion:252 Resp: 4650
Ion Ratio Lower Upper
252 100
253 28.7 21.8 32.6
125 16.8 14.6 21.8

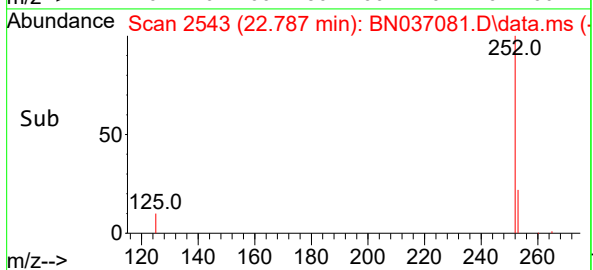
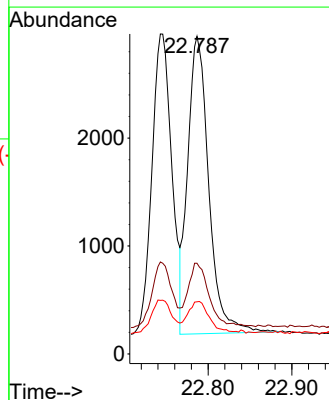
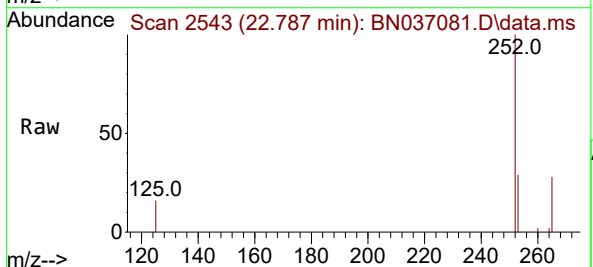
Manual Integrations
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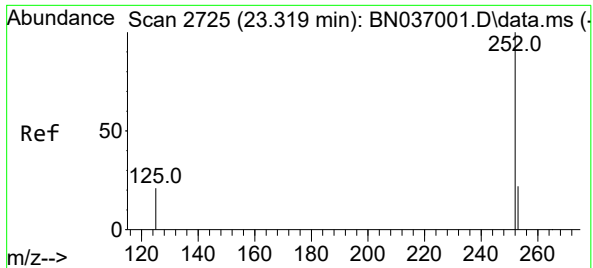
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#38
Benzo(k)fluoranthene
Concen: 0.387 ng
RT: 22.787 min Scan# 2543
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:252 Resp: 4818
Ion Ratio Lower Upper
252 100
253 28.6 21.4 32.2
125 16.4 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.385 ng

RT: 23.307 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD

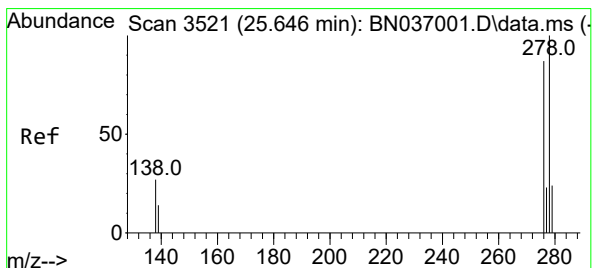
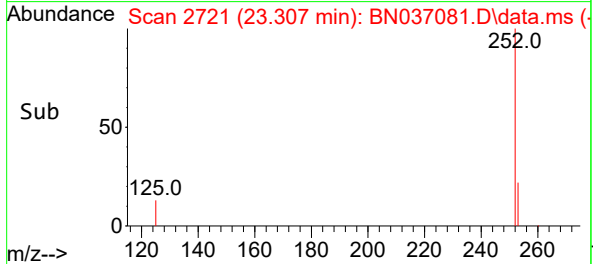
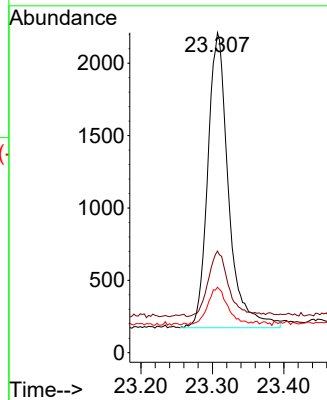
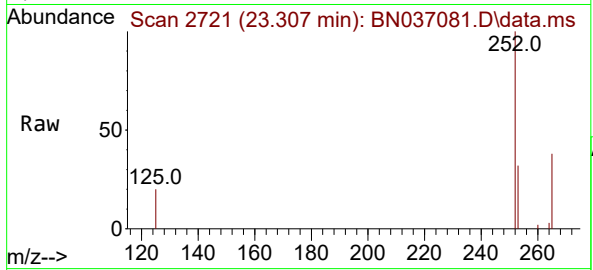
Tgt Ion:	252	Resp:	411
Ion Ratio	Lower	Upper	
252	100		
253	31.8	23.8	35.6
125	20.4	21.8	32.6

Manual Integrations

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Reviewed By :Rahul Chavli 05/21/2025

Supervised By :Jagrut Upadhyay 05/21/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

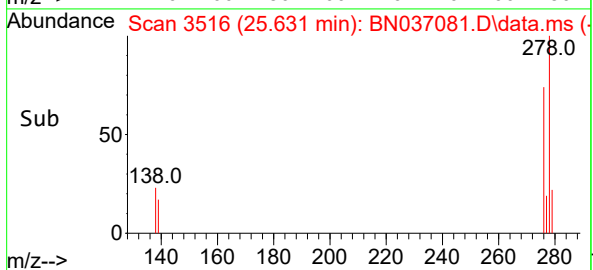
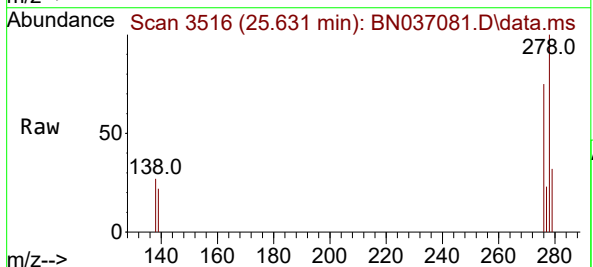
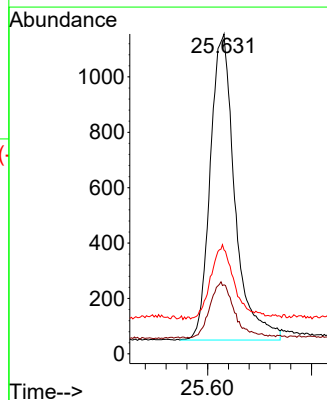
RT: 25.631 min Scan# 3516

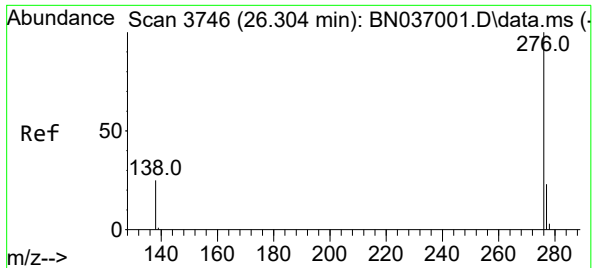
Delta R.T. -0.015 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

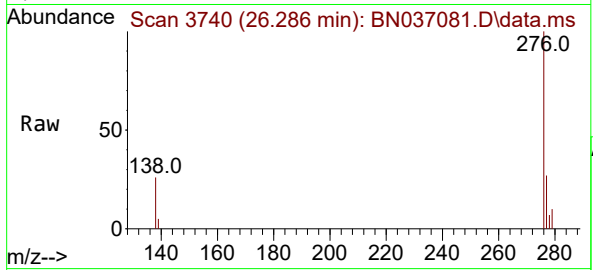
Tgt Ion:	278	Resp:	3637
Ion Ratio	Lower	Upper	
278	100		
139	21.6	17.4	26.0
279	32.5	24.6	37.0





#41
Benzo(g,h,i)perylene
Concen: 0.382 ng
RT: 26.286 min Scan# 31
Delta R.T. -0.017 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

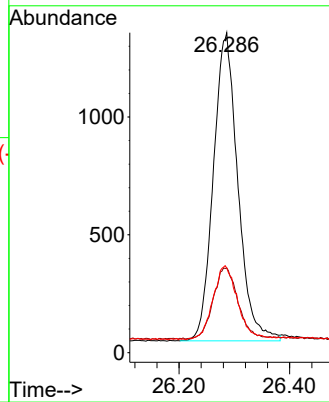
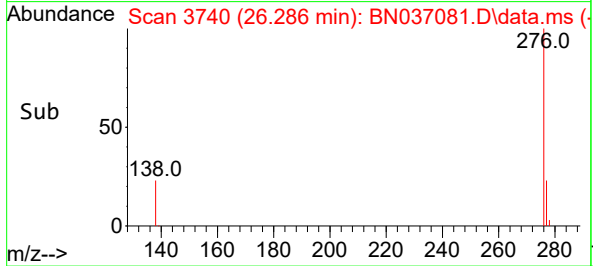
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



Tgt Ion:276 Resp: 401
Ion Ratio Lower Upper
276 100
277 26.5 20.2 30.4
138 26.4 22.0 33.0

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



Manual Integration Report

Sequence:	bn051425	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN037000.D	Benzo(b)fluoranthene	Rahul	5/15/2025 9:23:24 AM	Jagrut	5/15/2025 3:49:25 PM	Peak Integrated by Software
SSTDCCC0.4	BN037009.D	1,4-Dioxane	Rahul	5/15/2025 9:23:28 AM	Jagrut	5/15/2025 3:49:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN052125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB168032BS	BN037080.D	2-Methylnaphthalene-d1 0	Rahul	5/21/2025 1:35:26 PM	Jagrut	5/21/2025 4:43:29 PM	Peak Integrated by Software
PB168032BSD	BN037081.D	2-Methylnaphthalene-d1 0	Rahul	5/21/2025 1:35:28 PM	Jagrut	5/21/2025 4:43:33 PM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn051425
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	BN036998.D	13 May 2025 17:02	RC/JU	Ok
2	SSTDIC0.1	BN036999.D	13 May 2025 17:41	RC/JU	Ok
3	SSTDIC0.2	BN037000.D	13 May 2025 18:17	RC/JU	Ok,M
4	SSTDIC0.4	BN037001.D	13 May 2025 18:53	RC/JU	Ok
5	SSTDIC0.8	BN037002.D	13 May 2025 19:29	RC/JU	Ok
6	SSTDIC1.6	BN037003.D	13 May 2025 20:05	RC/JU	Ok
7	SSTDIC3.2	BN037004.D	13 May 2025 20:41	RC/JU	Ok
8	SSTDIC5.0	BN037005.D	13 May 2025 21:17	RC/JU	Ok
9	SSTDICV0.4	BN037006.D	13 May 2025 22:29	RC/JU	Ok
10	PB167888BL	BN037007.D	13 May 2025 23:42	RC/JU	Not Ok
11	DFTPP	BN037008.D	14 May 2025 09:37	RC/JU	Ok
12	SSTDIC0.4	BN037009.D	14 May 2025 10:31	RC/JU	Ok,M
13	PB167952BL	BN037010.D	14 May 2025 11:20	RC/JU	Ok
14	Q2000-01	BN037011.D	14 May 2025 12:03	RC/JU	Dilution
15	Q2000-01DL	BN037012.D	14 May 2025 13:29	RC/JU	Ok
16	Q1872-13	BN037013.D	14 May 2025 14:46	RC/JU	Dilution
17	Q1872-13DL	BN037014.D	14 May 2025 15:48	RC/JU	Ok,M
18	Q1985-01	BN037015.D	14 May 2025 16:48	RC/JU	Ok
19	Q2012-01	BN037016.D	14 May 2025 17:24	RC/JU	Dilution
20	Q2012-02	BN037017.D	14 May 2025 18:00	RC/JU	Ok
21	Q2012-03	BN037018.D	14 May 2025 18:36	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn051425
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	Q2013-02	BN037019.D	14 May 2025 19:12	RC/JU	Ok
23	Q2013-03	BN037020.D	14 May 2025 19:48	RC/JU	Ok
24	PB167952BS	BN037021.D	14 May 2025 20:24	RC/JU	Ok,M
25	PB167952BSD	BN037022.D	14 May 2025 21:00	RC/JU	Ok,M
26	SSTDCCC0.4	BN037023.D	14 May 2025 21:36	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # BN052125

Review By	Rahul	Review On	5/21/2025 2:05:15 PM
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:45 PM
SubDirectory	BN052125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn051425
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	BN037073.D	20 May 2025 14:30	RC/JU	Ok
2	SSTDCCC0.4	BN037074.D	20 May 2025 15:09	RC/JU	Ok
3	PB168032BL	BN037075.D	20 May 2025 15:45	RC/JU	Ok
4	Q2051-04	BN037076.D	20 May 2025 16:22	RC/JU	Ok
5	Q2063-01	BN037077.D	20 May 2025 16:59	RC/JU	Ok
6	Q2063-02	BN037078.D	20 May 2025 17:35	RC/JU	Ok
7	Q2063-03	BN037079.D	20 May 2025 18:11	RC/JU	Ok
8	PB168032BS	BN037080.D	20 May 2025 18:47	RC/JU	Ok,M
9	PB168032BSD	BN037081.D	20 May 2025 19:23	RC/JU	Ok,M
10	SSTDCCC0.4	BN037082.D	20 May 2025 19:59	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_HP Processing Method bn051425

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	BN036998.D	13 May 2025 17:02		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036999.D	13 May 2025 17:41	Compound #02,04,05,20 removed from 0.1ppm	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037000.D	13 May 2025 18:17		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN037001.D	13 May 2025 18:53	Compound #20 kept on QR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037002.D	13 May 2025 19:29		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037003.D	13 May 2025 20:05		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037004.D	13 May 2025 20:41		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037005.D	13 May 2025 21:17		RC/JU	Ok
9	SSTDICV0.4	ICVBN051424	BN037006.D	13 May 2025 22:29		RC/JU	Ok
10	PB167888BL	PB167888BL	BN037007.D	13 May 2025 23:42	Analyzed for contamination check	RC/JU	Not Ok
11	DFTPP	DFTPP	BN037008.D	14 May 2025 09:37		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN037009.D	14 May 2025 10:31		RC/JU	Ok,M
13	PB167952BL	PB167952BL	BN037010.D	14 May 2025 11:20		RC/JU	Ok
14	Q2000-01	38072-062223	BN037011.D	14 May 2025 12:03	PT Sample, Need 50X Dilution	RC/JU	Dilution
15	Q2000-01DL	38072-062223DL	BN037012.D	14 May 2025 13:29		RC/JU	Ok
16	Q1872-13	HW0425-PT-PAH-SOIL	BN037013.D	14 May 2025 14:46	PT Sample, Need 10X Dilution	RC/JU	Dilution
17	Q1872-13DL	HW0425-PT-PAH-SOIL	BN037014.D	14 May 2025 15:48		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_HP Processing Method bn051425
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	Q1985-01	RW8-BW-20250507	BN037015.D	14 May 2025 16:48		RC/JU	Ok
19	Q2012-01	RW5-SP100-20250509	BN037016.D	14 May 2025 17:24	Need 2X Dilution	RC/JU	Dilution
20	Q2012-02	RW5-SP201-20250509	BN037017.D	14 May 2025 18:00		RC/JU	Ok
21	Q2012-03	RW5-SP303-20250509	BN037018.D	14 May 2025 18:36		RC/JU	Ok,M
22	Q2013-02	BP-TT192D2-GW-2025	BN037019.D	14 May 2025 19:12		RC/JU	Ok
23	Q2013-03	BP-TT192D1-GW-2025	BN037020.D	14 May 2025 19:48		RC/JU	Ok
24	PB167952BS	PB167952BS	BN037021.D	14 May 2025 20:24		RC/JU	Ok,M
25	PB167952BSD	PB167952BSD	BN037022.D	14 May 2025 21:00		RC/JU	Ok,M
26	SSTDCCC0.4	SSTDCCC0.4EC	BN037023.D	14 May 2025 21:36		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN052125

Review By	Rahul	Review On	5/21/2025 2:05:15 PM
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:45 PM
SubDirectory	BN052125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn051425

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	BN037073.D	20 May 2025 14:30		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037074.D	20 May 2025 15:09		RC/JU	Ok
3	PB168032BL	PB168032BL	BN037075.D	20 May 2025 15:45		RC/JU	Ok
4	Q2051-04	RW7-SP303-20250514	BN037076.D	20 May 2025 16:22		RC/JU	Ok
5	Q2063-01	RW5-SP100-20250515	BN037077.D	20 May 2025 16:59		RC/JU	Ok
6	Q2063-02	RW5-SP201-20250515	BN037078.D	20 May 2025 17:35		RC/JU	Ok
7	Q2063-03	RW5-SP303-20250515	BN037079.D	20 May 2025 18:11		RC/JU	Ok
8	PB168032BS	PB168032BS	BN037080.D	20 May 2025 18:47		RC/JU	Ok,M
9	PB168032BSD	PB168032BSD	BN037081.D	20 May 2025 19:23		RC/JU	Ok,M
10	SSTDCCC0.4	SSTDCCC0.4EC	BN037082.D	20 May 2025 19:59		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 05/16/2025

Matrix : Water **Extraction Start Time :** 08:42

Welgh By: N/A **Extraction By:** RS **Extraction End Date :** 05/16/2025

Balance check: N/A **Filter By:** RJ **Extraction End Time :** 16:45

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3880 **Hood ID:** 4,5,6,7 **Supervisor By :** RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	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	E3930
Baked Na2SO4	N/A	EP2611
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# 2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH, Q2063 & Q2064 all samples added at 11:50 AM.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

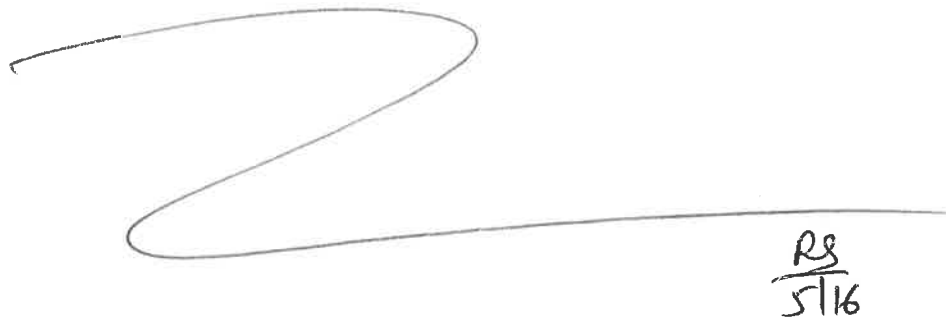
KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/16/25 16:50	RS (Ext. Lab)	Relsvoc
	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 05/16/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168032BL	SBLK032	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB168032BS	SLCS032	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB168032BS D	SLCSD032	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q2050-02	BP-VPB-182-GW-60-62	SVOC-SIMGrou p1	550	6	RUPESH	ritesh	1	C		4
Q2050-04	BP-VPB-182-GW-150-152	SVOC-SIMGrou p1	910	6	RUPESH	ritesh	1	C		5
Q2050-06	BP-VPB-182-GW-220-222	SVOC-SIMGrou p1	870	6	RUPESH	ritesh	1	C		6
Q2050-08	BP-VPB-182-EB-2025051 4	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		7
Q2051-01	RW7-SP100-20250514	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			8
Q2051-02	RW7-SP201-20250514	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			9
Q2051-03	RW7-SP302-20250514	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			10
Q2051-04	RW7-SP303-20250514	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			11
Q2063-01	RW5-SP100-20250515	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			12
Q2063-02	RW5-SP201-20250515	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			13
Q2063-03	RW5-SP303-20250515	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			14
Q2064-01	RW8-SP100-70-2025051 4	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		15
Q2064-02	RW8-SP201-70-2025051 4	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			16
Q2064-03	RW8-SP301-70-2025051 4	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
Q2064-04	RW8-SP303-70-2025051 4	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		2
Q2064-05	RW8-SP100-90-2025051 4	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		3
Q2064-06	RW8-SP201-90-2025051 4	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			4
Q2064-07	RW8-SP301-90-2025051 4	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
Q2064-08	RW8-SP303-90-2025051 4	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		6



* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2050 WorkList ID : 189558 Department : Extraction Date : 05-16-2025 08:36:34

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2050-02	BP-VPB-182-GW-60-62	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/12/2025	8270-Modified
Q2050-04	BP-VPB-182-GW-150-152	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/13/2025	8270-Modified
Q2050-06	BP-VPB-182-GW-220-222	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/14/2025	8270-Modified
Q2050-08	BP-VPB-182-EB-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L31	05/14/2025	8270-Modified
Q2051-01	RW7-SP100-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2051-02	RW7-SP201-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2051-03	RW7-SP302-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2051-04	RW7-SP303-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified

Date/Time 5/16/25 8:37
Raw Sample Received by: RJ (Ext-66)
Raw Sample Relinquished by: Cal Sm

Date/Time 5/16/25 9:15
Raw Sample Received by: Cal Sm
Raw Sample Relinquished by: RJ (Ext-66)

Q2063-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2063 WorkList ID : 189579 Department : Extraction Date : 05-16-2025 11:45:14

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2063-01	RW5-SP100-20250515	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/15/2025	8270-Modified
Q2063-02	RW5-SP201-20250515	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/15/2025	8270-Modified
Q2063-03	RW5-SP303-20250515	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/15/2025	8270-Modified
Q2064-01	RW8-SP100-70-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2064-02	RW8-SP201-70-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2064-03	RW8-SP301-70-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2064-04	RW8-SP303-70-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2064-05	RW8-SP100-90-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2064-06	RW8-SP201-90-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2064-07	RW8-SP301-90-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified
Q2064-08	RW8-SP303-90-20250514	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	L41	05/14/2025	8270-Modified

Date/Time 5/16/25 11:45
Raw Sample Received by: RS (Ext-Lab)
Raw Sample Relinquished by: QJ SN

Date/Time 5/16/25 12:30
Raw Sample Received by: QJ SN
Raw Sample Relinquished by: RS (Ext-Lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q2063
Test : SVOC-SIMGroup1
Prepbatch ID : PB168032,
Sequence ID/Qc Batch ID: BN052125,

Standard ID :
EP2609,EP2610,EP2611,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,E3930,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	RUPESEKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

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	RUPESEKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

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	EP2611	05/09/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/09/2025

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								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

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.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: Erica Castiglione
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.

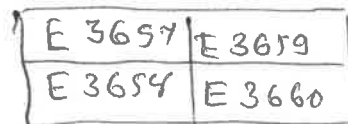
This document has been electronically produced and is valid without a signature.

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	$\leq 1.0 \text{ ppm}$	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
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

avantortm

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.: 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

E3930


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
MS

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



5580 Skylane Blvd
Santa Rosa, CA 95403
(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

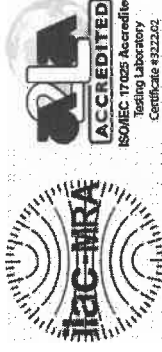


110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.
This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555872 Lot No.: A0201728
Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : September 30, 2026 Storage: 10°C or colder
Ship: Ambient

511649 } Y.P.
↓ 11/13/23
511658 }

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

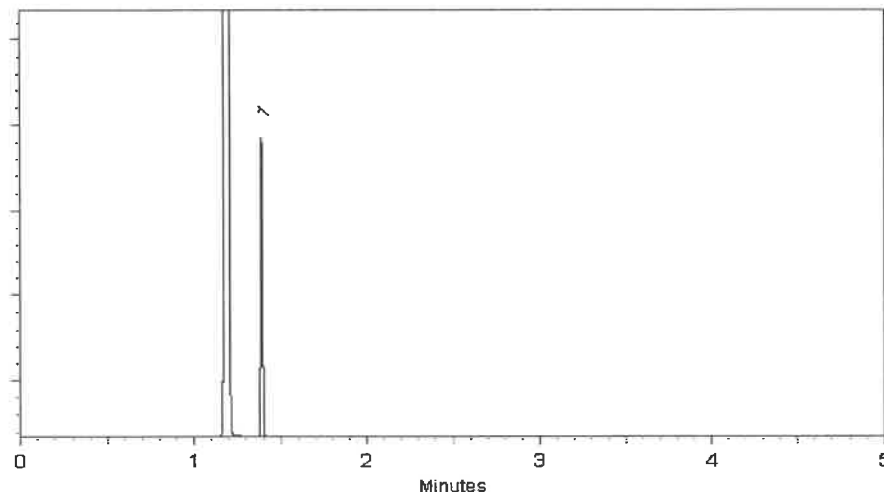
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

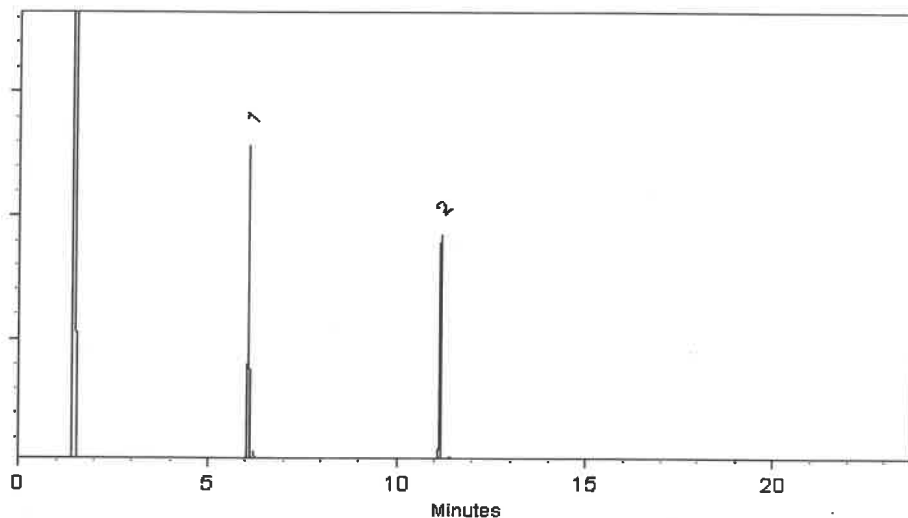
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

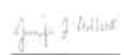


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
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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

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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CERTIFIED REFERENCE MATERIAL

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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

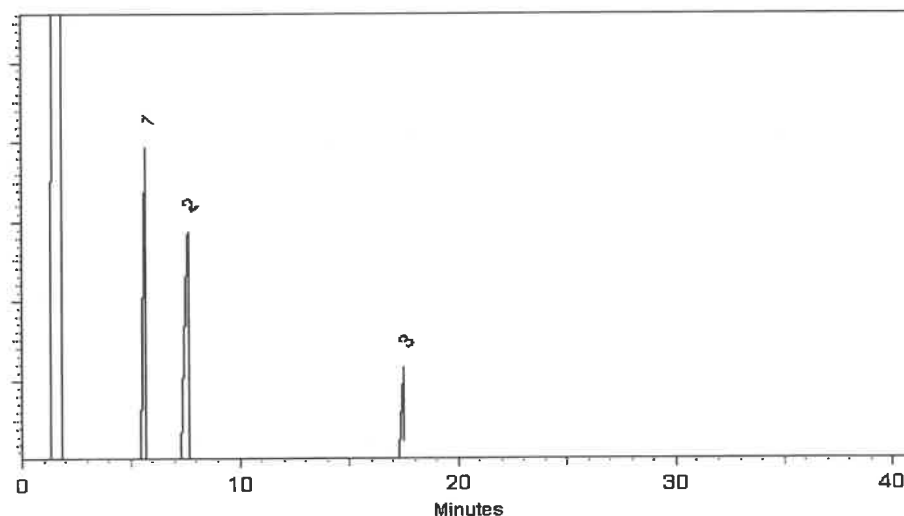
FID

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

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

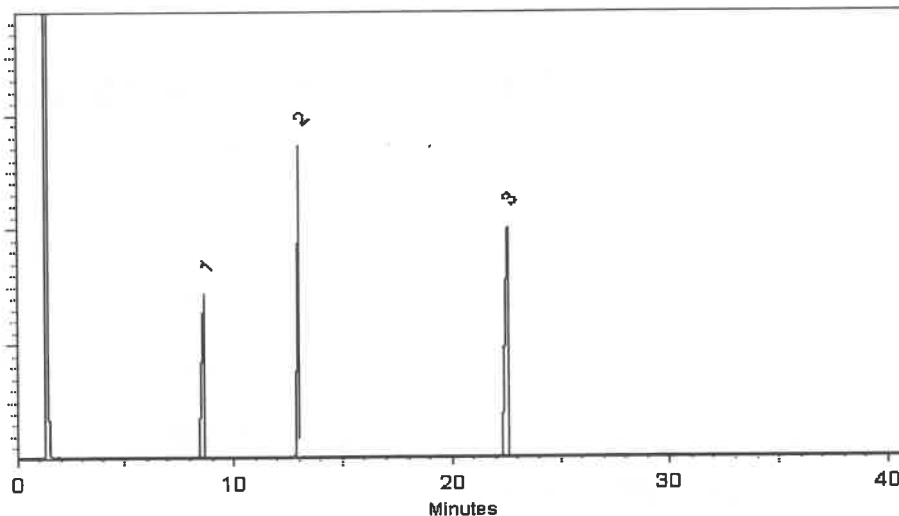
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

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Date Received: _____

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Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 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.)

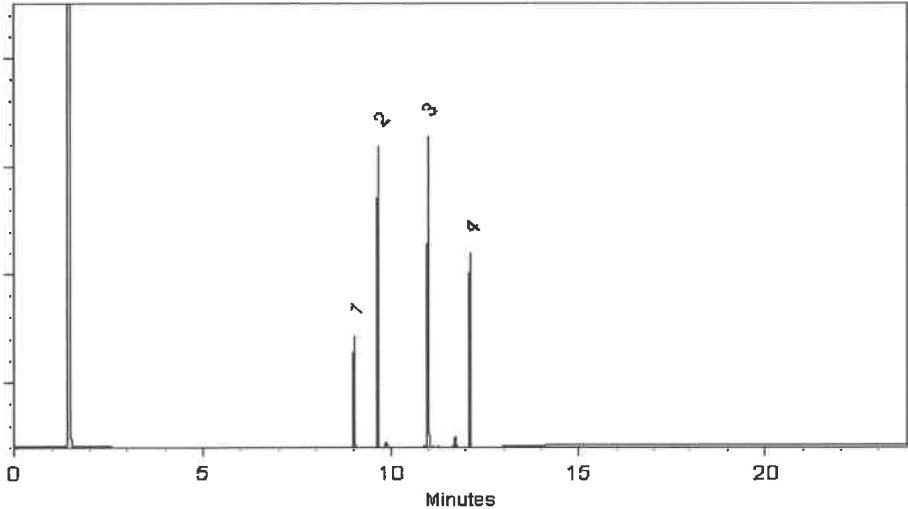
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

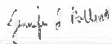
Inj. Vol
1µl



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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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SHIPPING DOCUMENTS

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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: Q2063 COC Number:										
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION										
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: PO#										
ADDRESS: 4433 Corporation Ln, Suite 300		PROJECT #: 112G08005-WE13 LOCATION: RW5B		ADDRESS:										
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:										
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:										
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148												
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS										
FAX: 10 DAYS* HARD COPY: 10 DAYS* EDD 10 DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		1,4-Dioxane SW846 8270 SIM <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> </table>		1	2	3	4	5	6	7	8	9
1	2	3	4	5	6	7	8	9						
				PRESERVATIVES										
				COMMENTS										
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP GRAB	SAMPLE COLLECTION DATE TIME	# of Bottles									
1.	RW5-SP100-20250515	GW		5/15/25 10:45	1									
2.	RW5-SP201-20250515	GW		5/15/25 10:47	1									
3.	RW5-SP303-20250515	GW		5/15/25 10:53	1									
4.														
5.														
6.														
7.														
8.														
9.														
10.														
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY														
RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY	Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 3.1°C MeOH extraction requires an additional 4oz. Jar for percent solid Comments:											
1. <i>Uth</i>	5/15/25 1200	1. <i>[Signature]</i>												
RELINQUISHED BY	DATE/TIME	RECEIVED BY												
2. <i>[Signature]</i>	5/16/25 1005	2. <i>CP</i>	Comments: If Gun #1											
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY												
3. <i>[Signature]</i>		3. <i>[Signature]</i>	SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight											
			Page _____ of _____											
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT			YELLOW - CHEMTECH COPY											
			PINK - SAMPLER COPY											

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037000.D
 Acq On : 13 May 2025 18:17
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: May 14 11:00:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

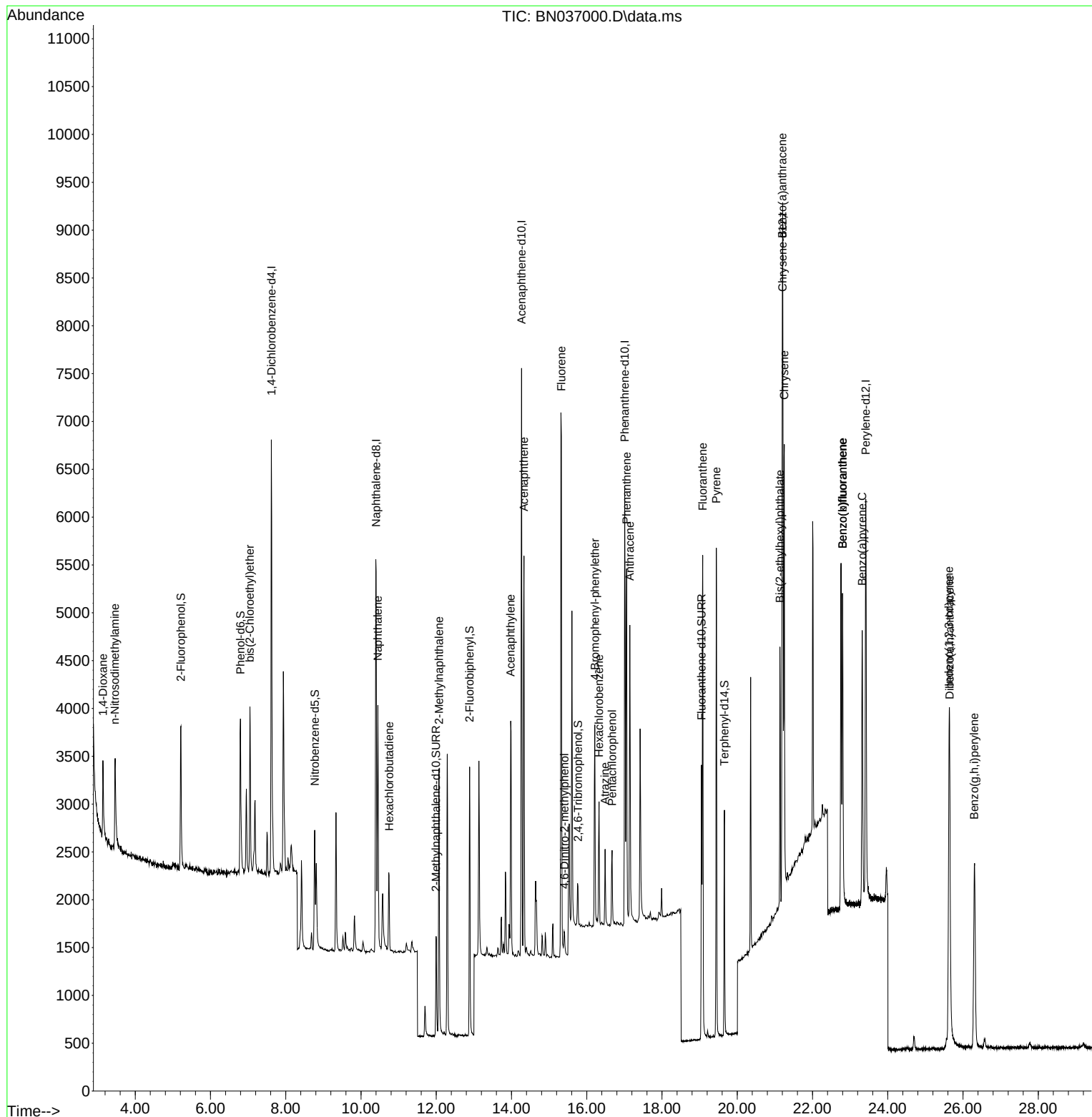
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2140	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5637	0.400	ng	0.00
13) Acenaphthene-d10	14.266	164	3174	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	6255	0.400	ng	0.00
29) Chrysene-d12	21.206	240	5420	0.400	ng	0.00
35) Perylene-d12	23.415	264	5487	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1178	0.210	ng	0.00
5) Phenol-d6	6.795	99	1395	0.199	ng	0.00
8) Nitrobenzene-d5	8.771	82	1080	0.176	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	1543	0.194	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	267	0.192	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	2858	0.197	ng	0.00
27) Fluoranthene-d10	19.049	212	3232	0.188	ng	0.00
31) Terphenyl-d14	19.658	244	2287	0.197	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.140	88	546	0.208	ng	97
3) n-Nitrosodimethylamine	3.458	42	1042	0.185	ng	# 95
6) bis(2-Chloroethyl)ether	7.048	93	1244	0.193	ng	99
9) Naphthalene	10.447	128	3213	0.193	ng	99
10) Hexachlorobutadiene	10.746	225	698	0.200	ng	# 99
12) 2-Methylnaphthalene	12.072	142	2041	0.191	ng	99
16) Acenaphthylene	13.978	152	2917	0.189	ng	99
17) Acenaphthene	14.331	154	1950	0.193	ng	99
18) Fluorene	15.325	166	2509	0.189	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	187	0.167	ng	# 48
21) 4-Bromophenyl-phenylether	16.214	248	770	0.195	ng	99
22) Hexachlorobenzene	16.326	284	840	0.199	ng	98
23) Atrazine	16.487	200	647	0.188	ng	98
24) Pentachlorophenol	16.673	266	419	0.178	ng	98
25) Phenanthrene	17.058	178	3977	0.195	ng	100
26) Anthracene	17.145	178	3452	0.186	ng	99
28) Fluoranthene	19.082	202	4499	0.184	ng	99
30) Pyrene	19.444	202	4629	0.200	ng	100
32) Benzo(a)anthracene	21.197	228	3882	0.190	ng	98
33) Chrysene	21.251	228	4226	0.196	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	2490	0.198	ng	99
36) Indeno(1,2,3-cd)pyrene	25.628	276	4426	0.198	ng	99
37) Benzo(b)fluoranthene	22.798	252	4219	0.185	ng	93
38) Benzo(k)fluoranthene	22.798	252	4219	0.188	ng	# 91
39) Benzo(a)pyrene	23.322	252	3685	0.191	ng	# 88
40) Dibenzo(a,h)anthracene	25.646	278	3380	0.194	ng	94
41) Benzo(g,h,i)perylene	26.301	276	3861	0.204	ng	96

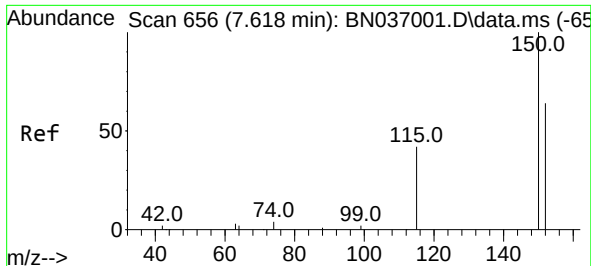
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037000.D
Acq On : 13 May 2025 18:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

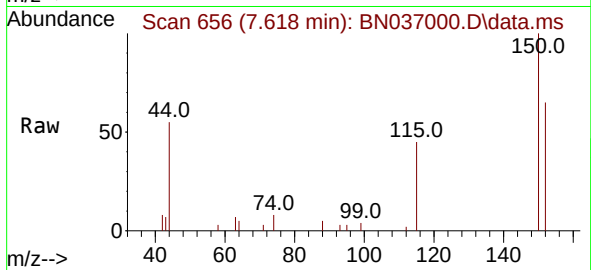
Quant Time: May 14 11:00:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



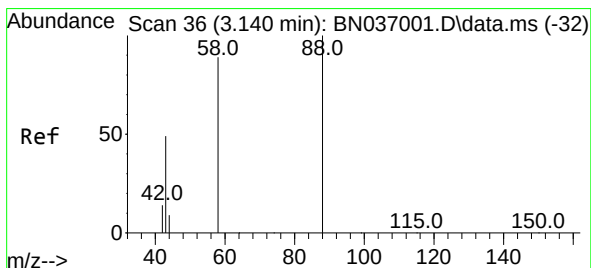
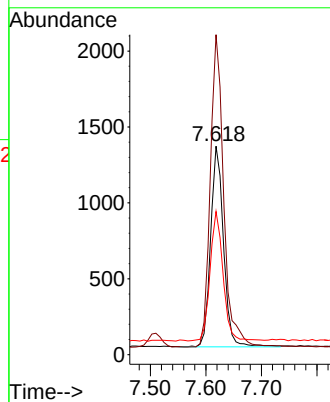
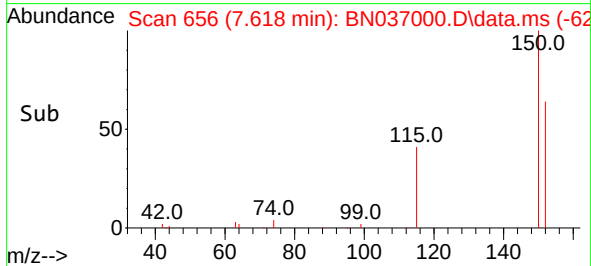


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.618 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN037000.D
 Acq: 13 May 2025 18:17

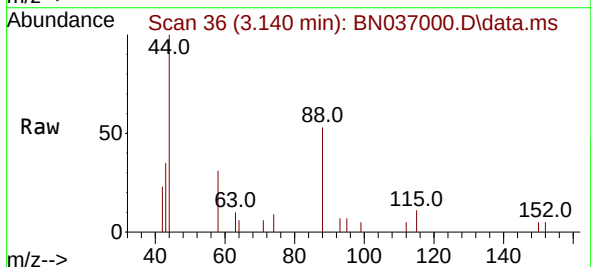
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



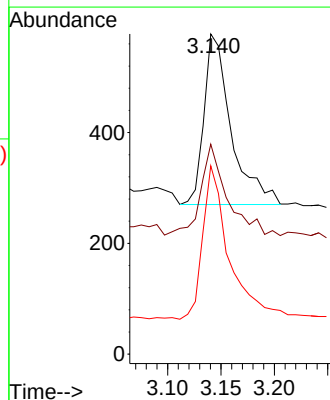
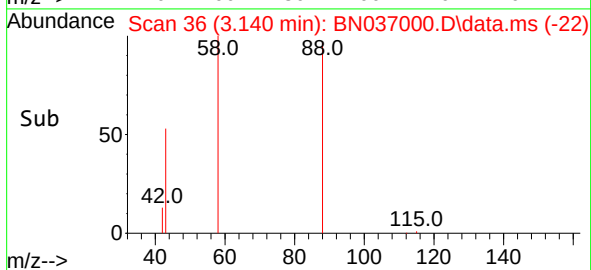
Tgt Ion:152 Resp: 2140
 Ion Ratio Lower Upper
 152 100
 150 153.5 123.9 185.9
 115 68.7 55.8 83.8

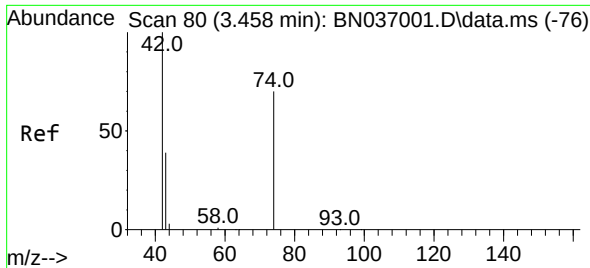


#2
 1,4-Dioxane
 Concen: 0.208 ng
 RT: 3.140 min Scan# 36
 Delta R.T. 0.000 min
 Lab File: BN037000.D
 Acq: 13 May 2025 18:17



Tgt Ion: 88 Resp: 546
 Ion Ratio Lower Upper
 88 100
 43 52.4 37.4 56.0
 58 85.7 68.8 103.2

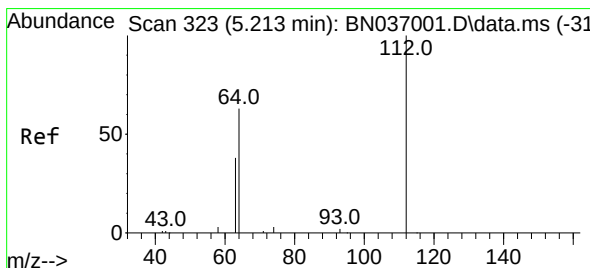
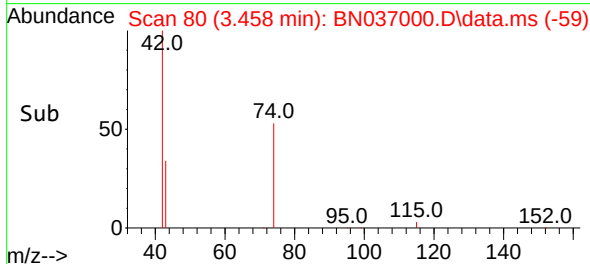
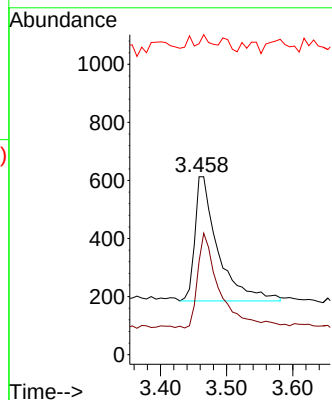
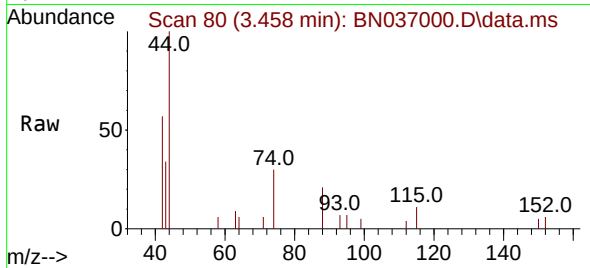




#3
n-Nitrosodimethylamine
Concen: 0.185 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

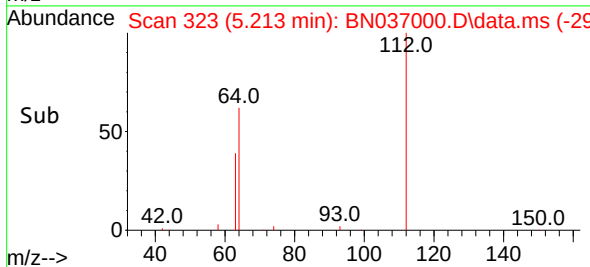
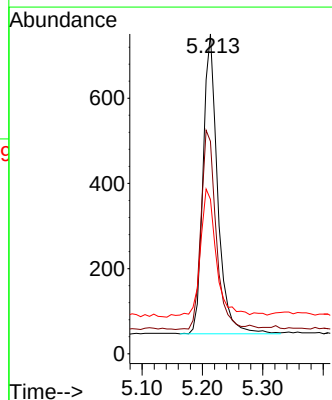
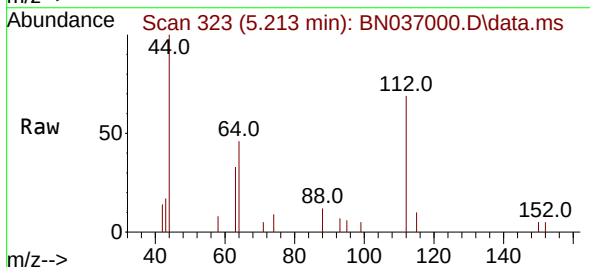
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

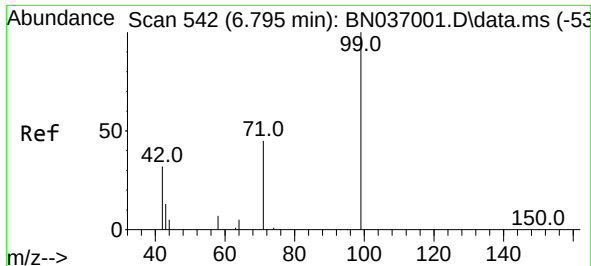
Tgt Ion: 42 Resp: 1042
Ion Ratio Lower Upper
42 100
74 72.6 59.8 89.6
44 7.5 11.9 17.9#



#4
2-Fluorophenol
Concen: 0.210 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 112 Resp: 1178
Ion Ratio Lower Upper
112 100
64 68.7 55.7 83.5
63 47.2 34.6 51.8

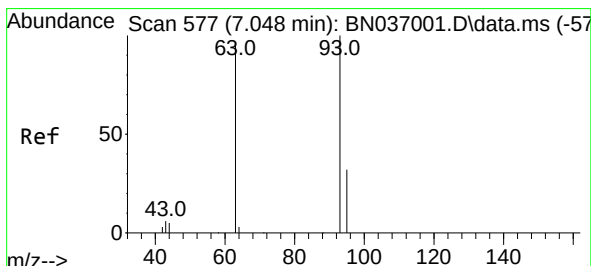
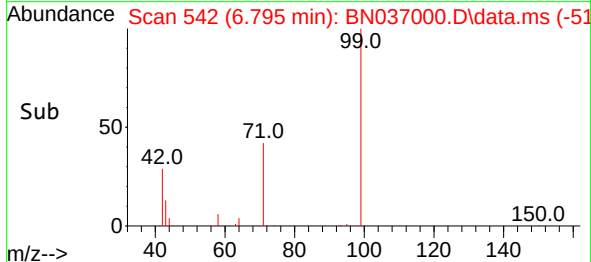
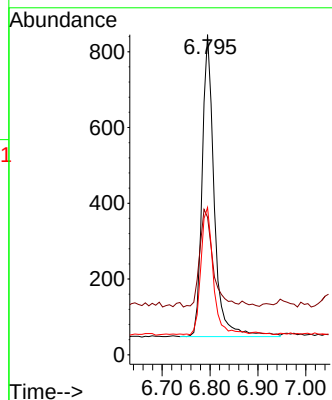
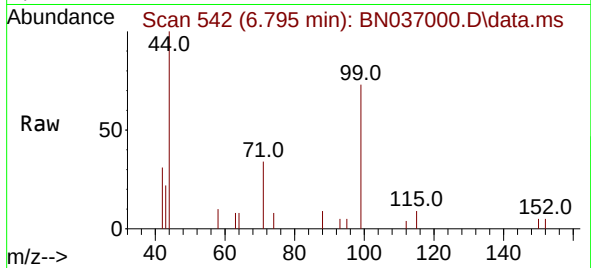




#5
Phenol-d6
Concen: 0.199 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

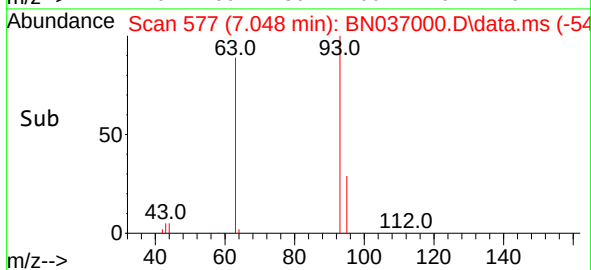
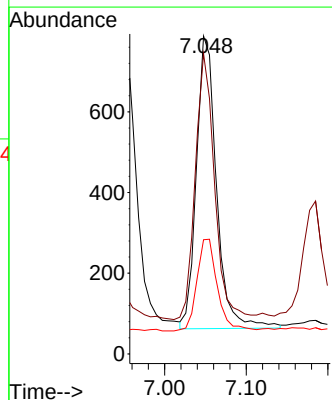
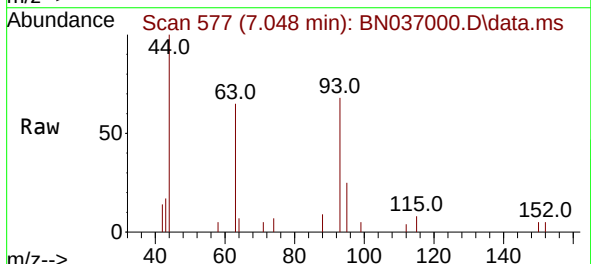
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

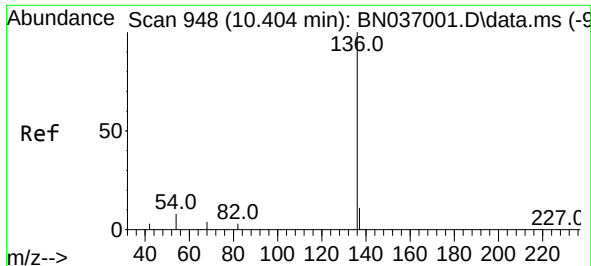
Tgt Ion:	99	Resp:	1395
Ion	Ratio	Lower	Upper
99	100		
42	34.2	29.3	43.9
71	42.7	35.7	53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.048 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:	93	Resp:	1244
Ion	Ratio	Lower	Upper
93	100		
63	86.9	70.1	105.1
95	31.8	26.2	39.2

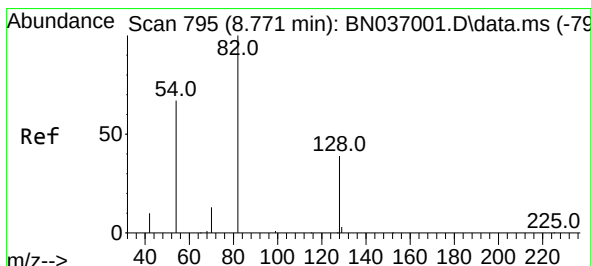
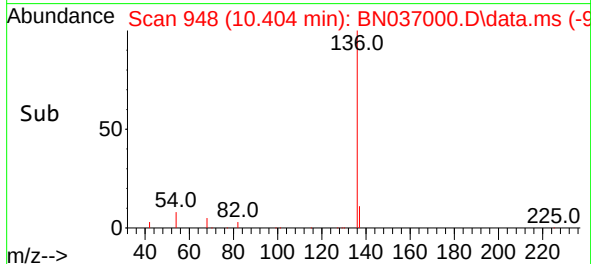
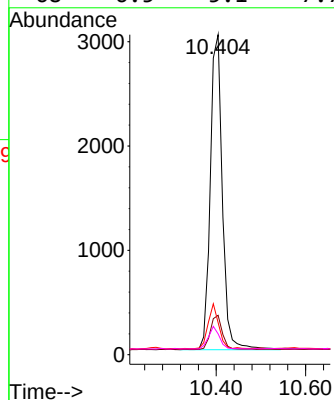
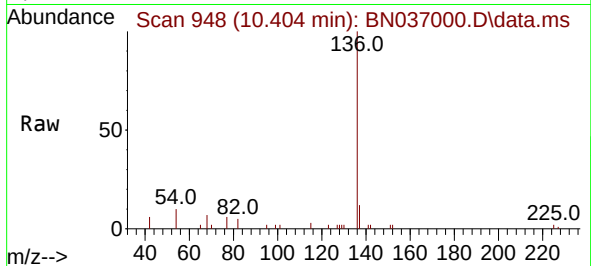




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

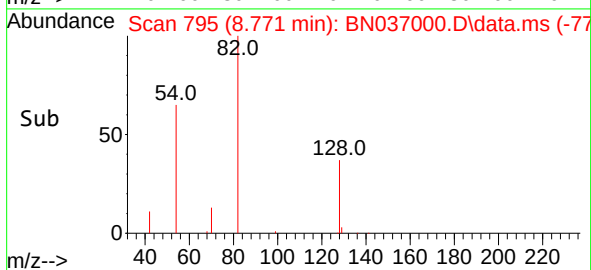
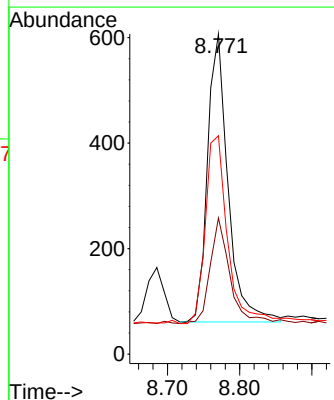
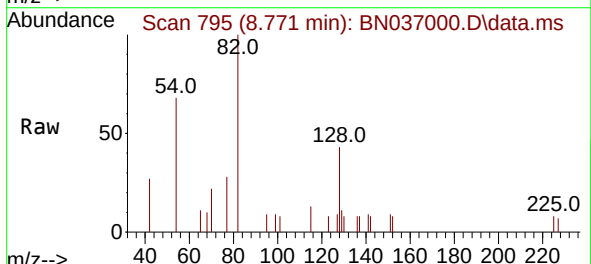
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

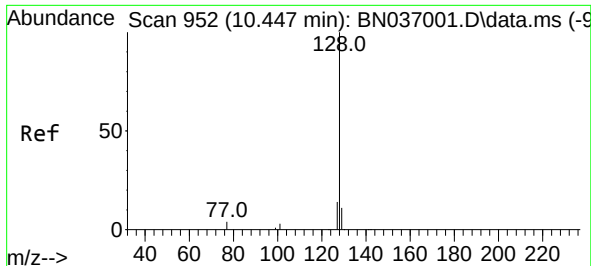
Tgt Ion:	136	Resp:	5637
Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.4	15.6
54	10.0	8.5	12.7
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:	82	Resp:	1080
Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.2	55.0	82.4

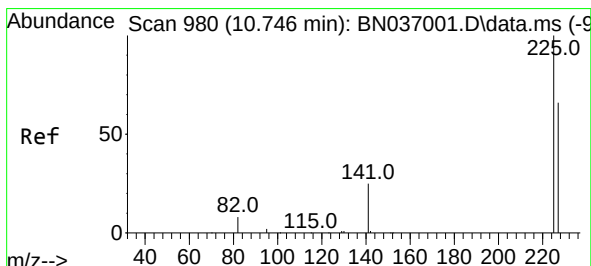
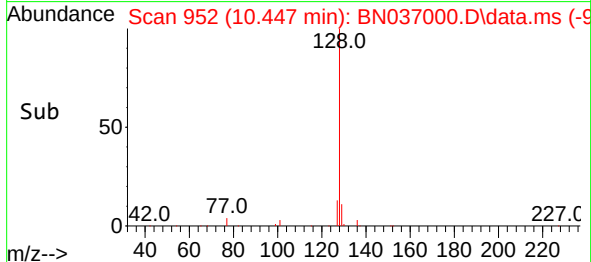
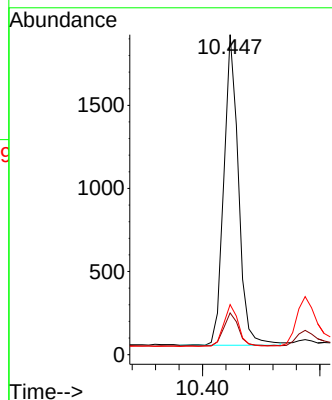
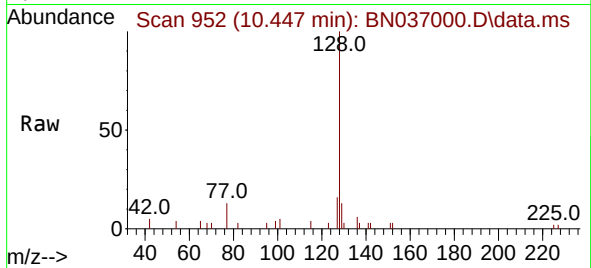




#9
Naphthalene
Concen: 0.193 ng
RT: 10.447 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

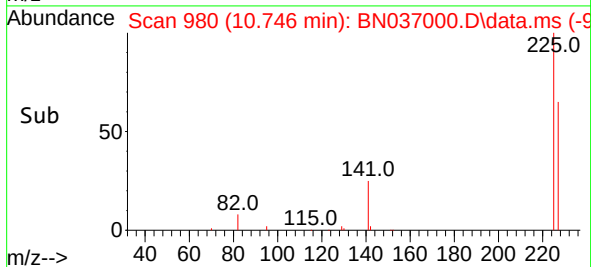
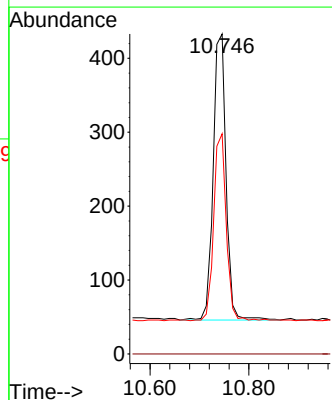
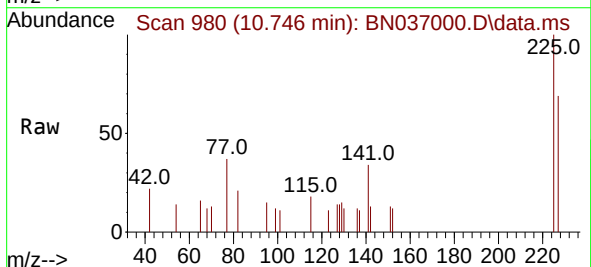
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

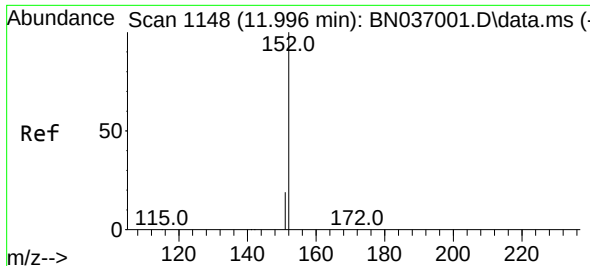
Tgt Ion:	128	Resp:	3213
Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.7	14.5
127	15.6	12.4	18.6



#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:	225	Resp:	698
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	50.9	76.3

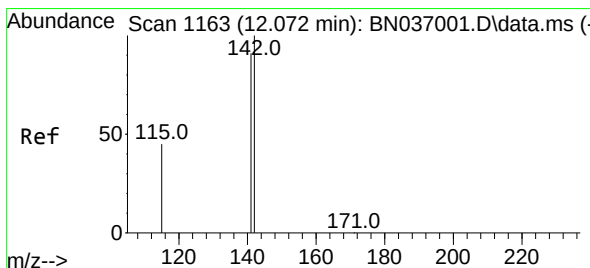
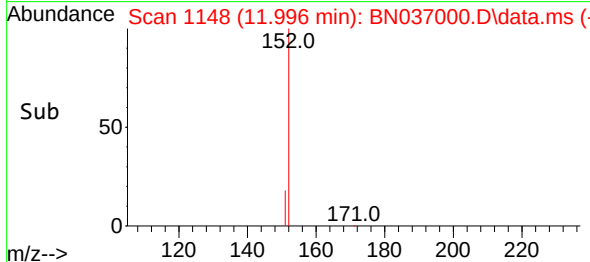
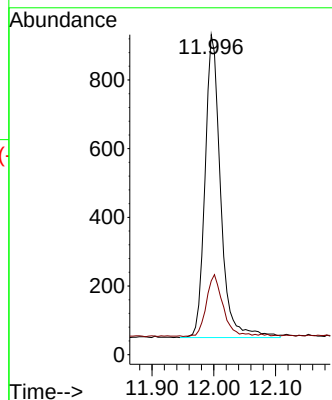
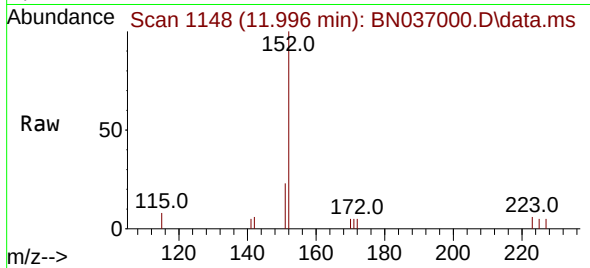




#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.996 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

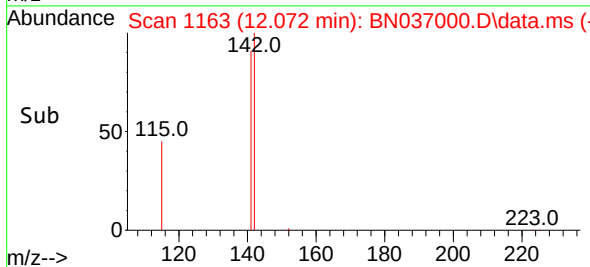
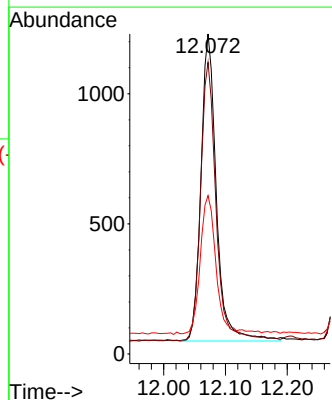
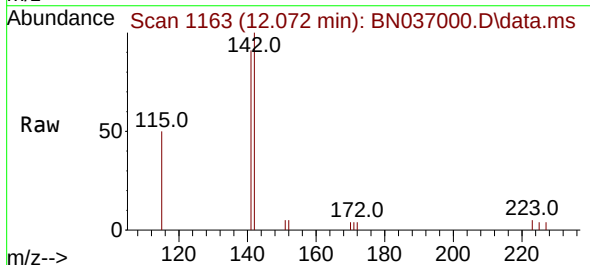
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

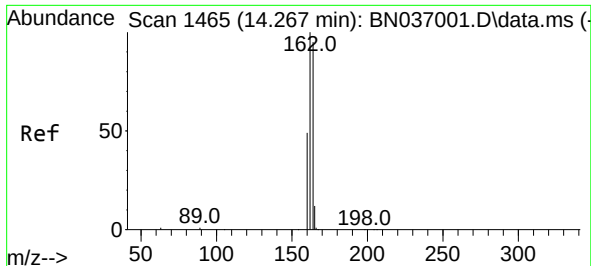
Tgt Ion:152 Resp: 1543
Ion Ratio Lower Upper
152 100
151 22.0 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

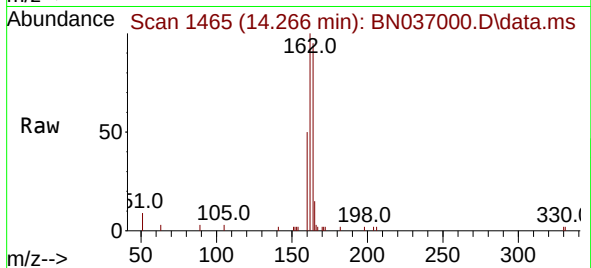
Tgt Ion:142 Resp: 2041
Ion Ratio Lower Upper
142 100
141 91.1 73.3 109.9
115 49.5 38.4 57.6



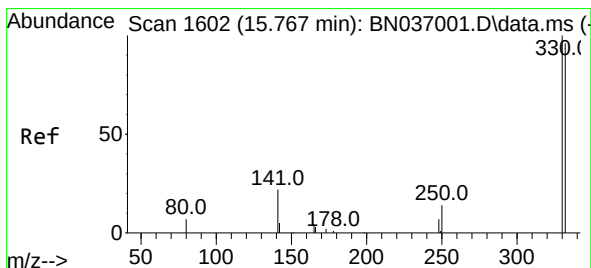
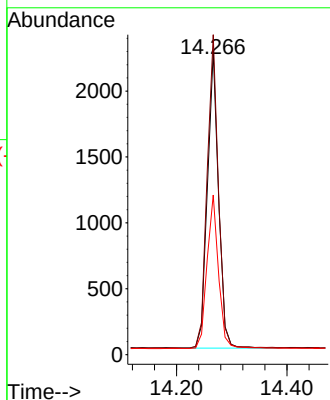
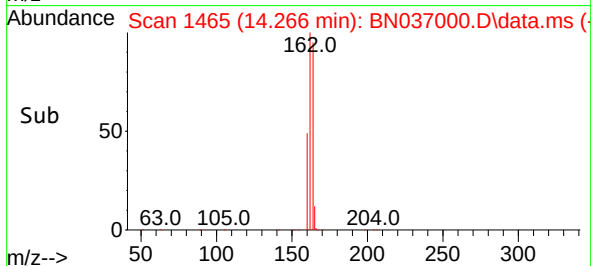


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

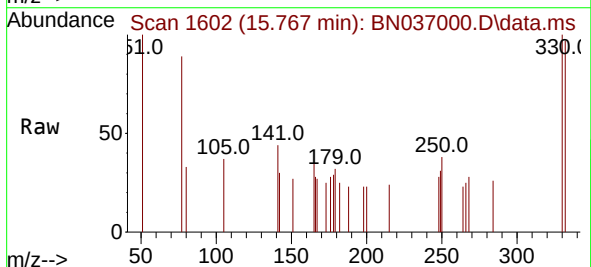
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



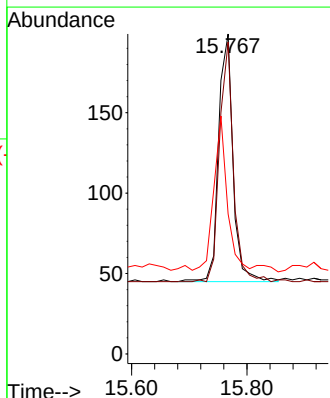
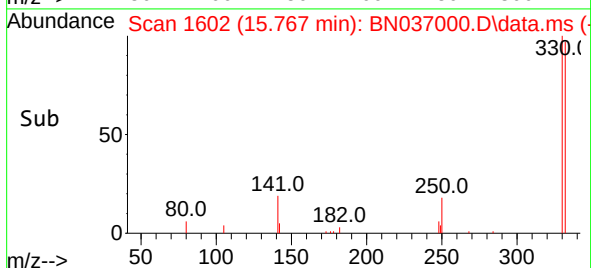
Tgt Ion:164 Resp: 3174
Ion Ratio Lower Upper
164 100
162 105.4 84.2 126.4
160 52.6 42.6 63.8

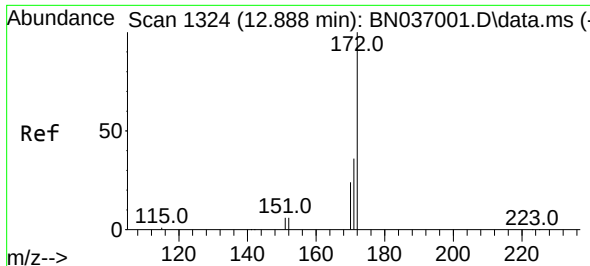


#14
2,4,6-Tribromophenol
Concen: 0.192 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17



Tgt Ion:330 Resp: 267
Ion Ratio Lower Upper
330 100
332 93.3 73.8 110.8
141 58.1 43.9 65.9

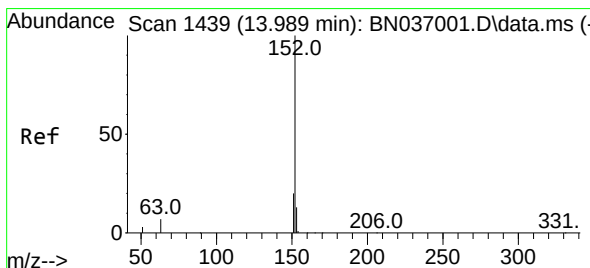
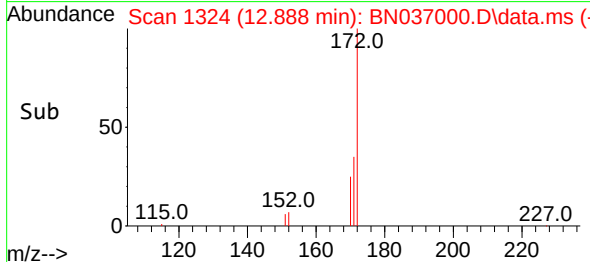
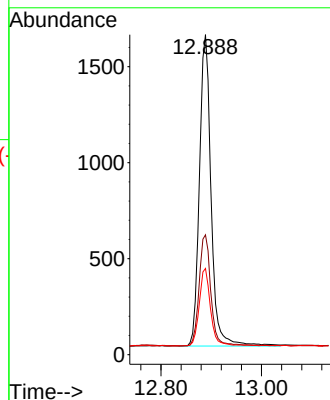
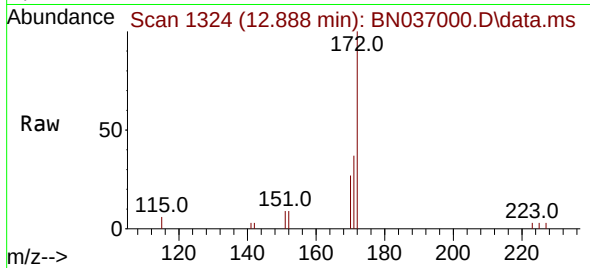




#15
2-Fluorobiphenyl
Concen: 0.197 ng
RT: 12.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

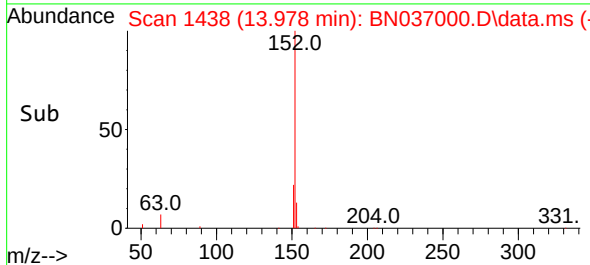
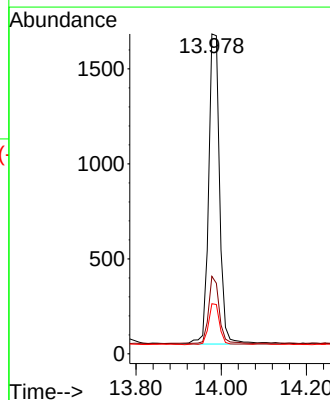
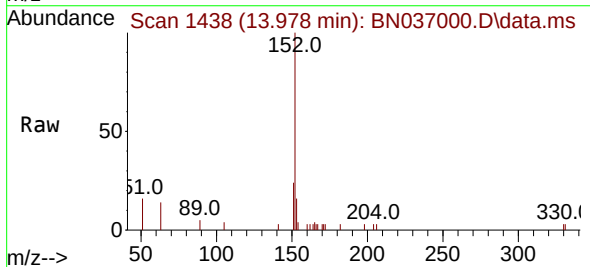
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

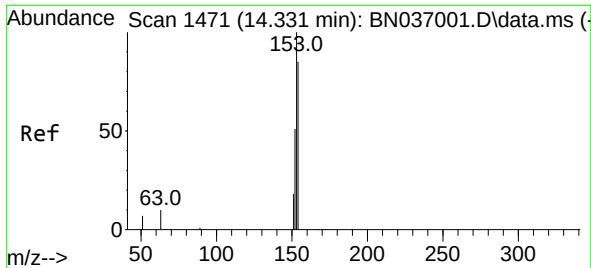
Tgt Ion:	172	Resp:	2858
Ion Ratio	Lower	Upper	
172	100		
171	37.4	29.2	43.8
170	26.9	20.5	30.7



#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:	152	Resp:	2917
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.1	24.1
153	13.7	10.5	15.7

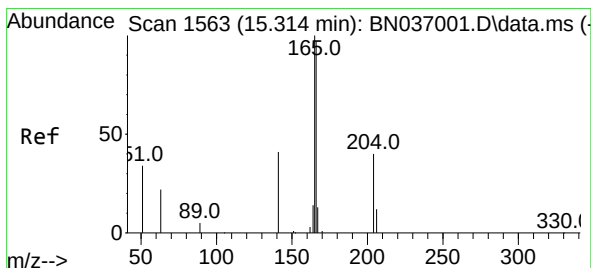
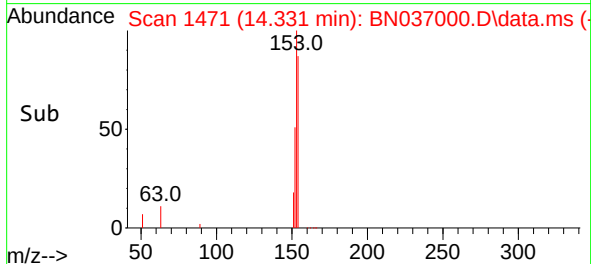
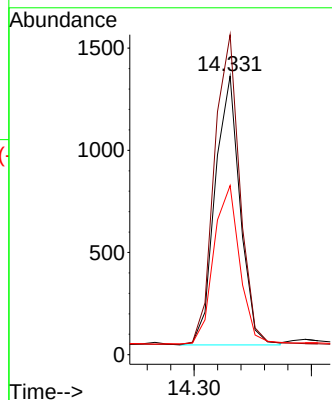
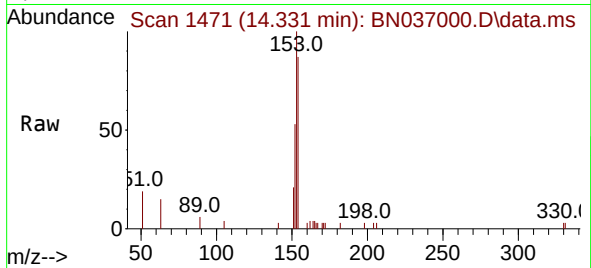




#17
Acenaphthene
Concen: 0.193 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

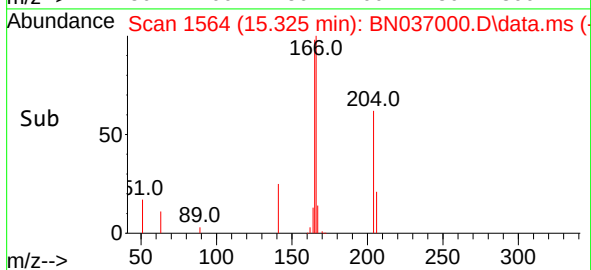
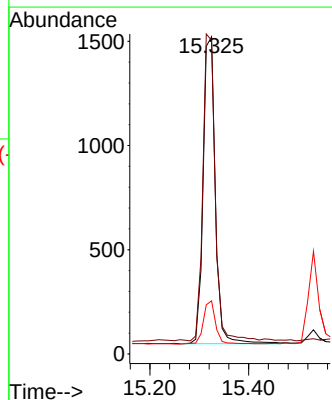
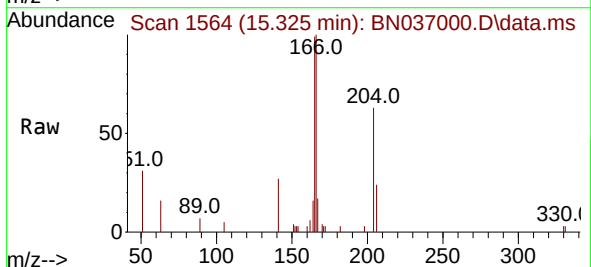
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

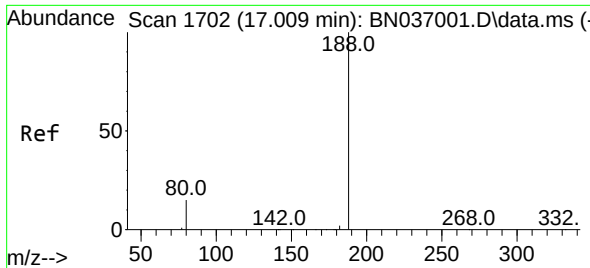
Tgt Ion:154 Resp: 1950
Ion Ratio Lower Upper
154 100
153 117.0 94.2 141.4
152 62.3 49.4 74.0



#18
Fluorene
Concen: 0.189 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:166 Resp: 2509
Ion Ratio Lower Upper
166 100
165 99.9 80.6 120.8
167 14.1 10.6 16.0

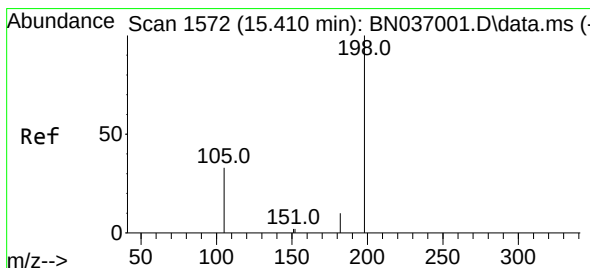
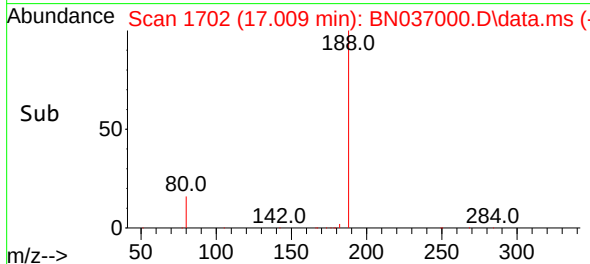
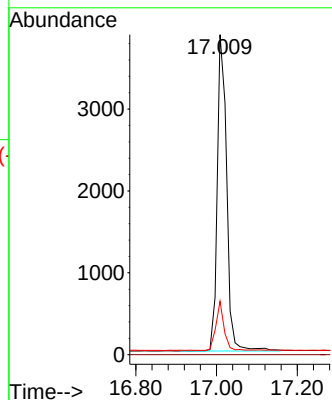
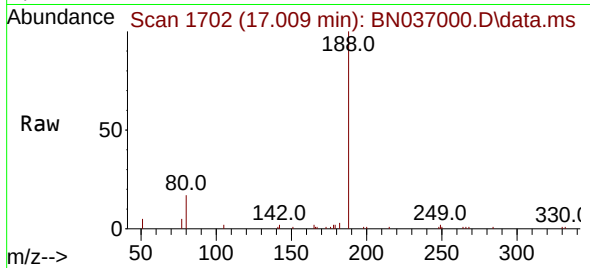




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

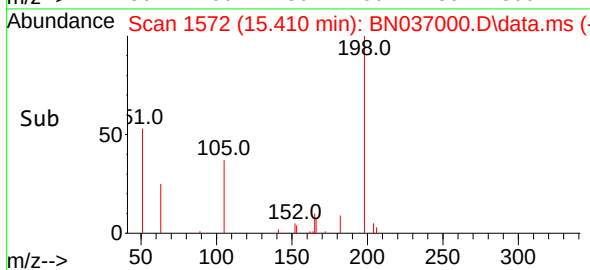
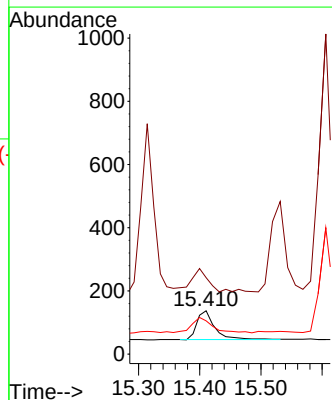
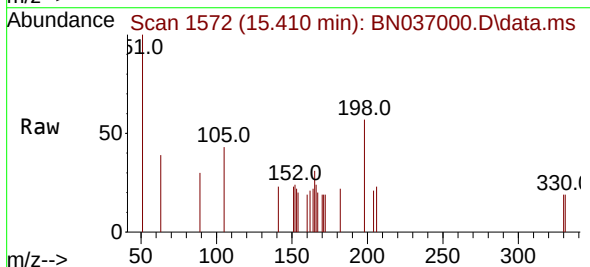
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

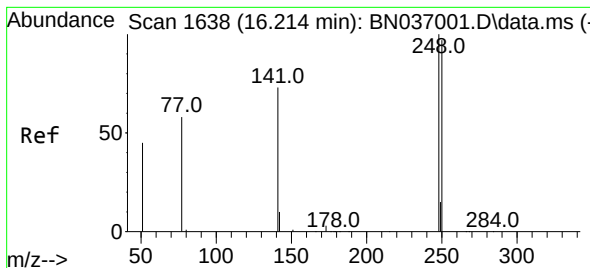
Tgt Ion:188 Resp: 6255
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.7 13.4 20.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.167 ng
RT: 15.410 min Scan# 1572
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:198 Resp: 187
Ion Ratio Lower Upper
198 100
51 176.6 87.8 131.6#
105 76.6 44.2 66.4#

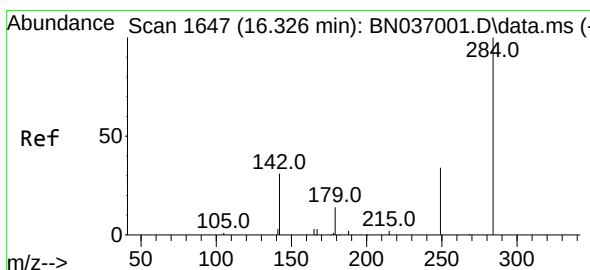
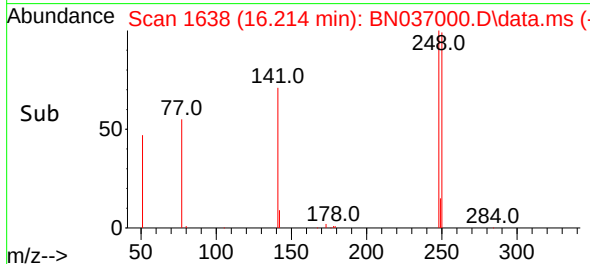
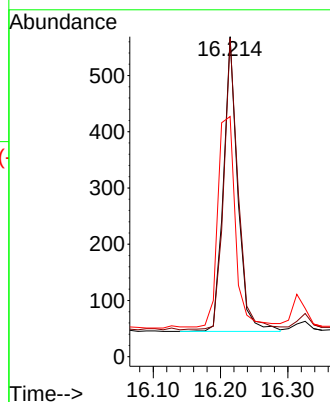
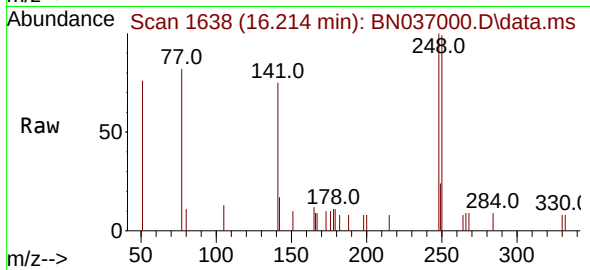




#21
4-Bromophenyl-phenylether
Concen: 0.195 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

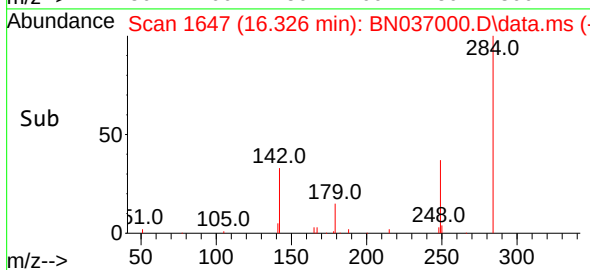
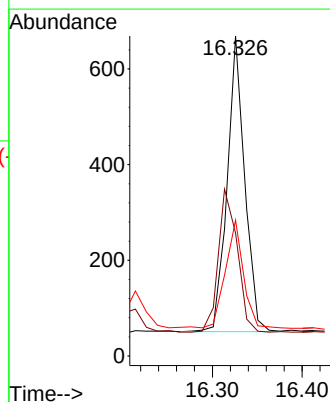
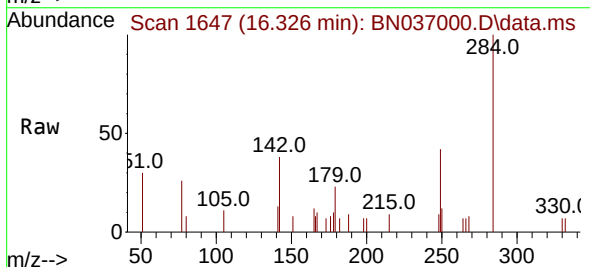
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

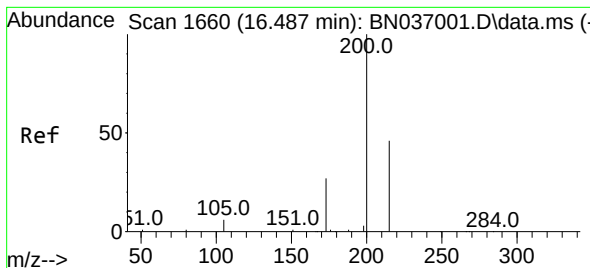
Tgt Ion:248 Resp: 770
Ion Ratio Lower Upper
248 100
250 99.5 78.1 117.1
141 75.0 59.7 89.5



#22
Hexachlorobenzene
Concen: 0.199 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:284 Resp: 840
Ion Ratio Lower Upper
284 100
142 52.3 41.2 61.8
249 37.9 28.7 43.1





#23

Atrazine

Concen: 0.188 ng

RT: 16.487 min Scan# 1660

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

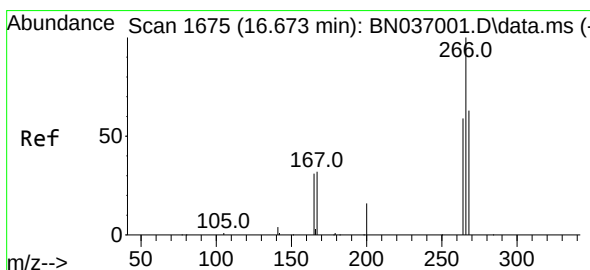
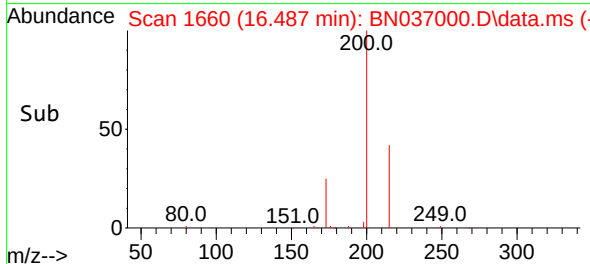
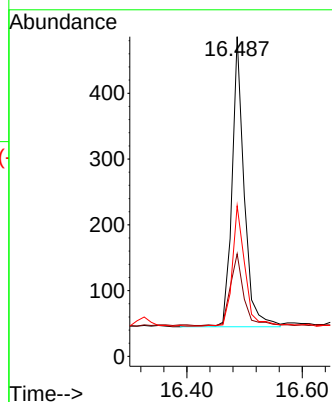
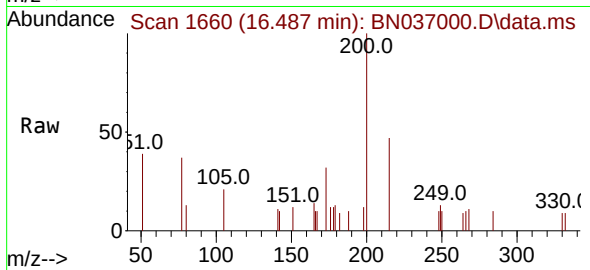
Tgt Ion:200 Resp: 647

Ion Ratio Lower Upper

200 100

173 32.1 25.2 37.8

215 47.1 39.3 58.9



#24

Pentachlorophenol

Concen: 0.178 ng

RT: 16.673 min Scan# 1675

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

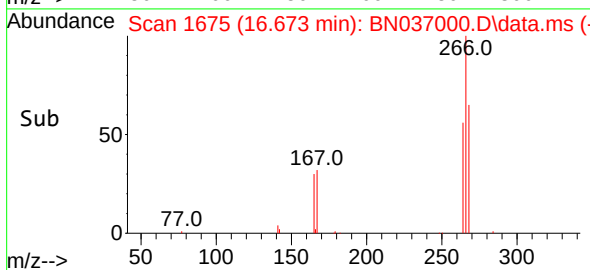
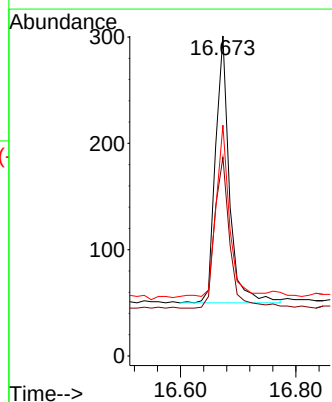
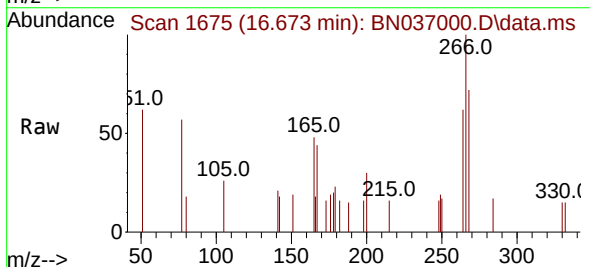
Tgt Ion:266 Resp: 419

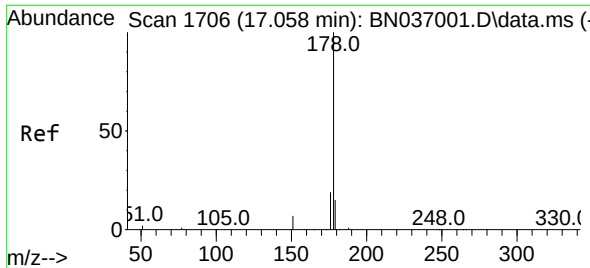
Ion Ratio Lower Upper

266 100

264 62.8 47.9 71.9

268 62.8 50.0 75.0

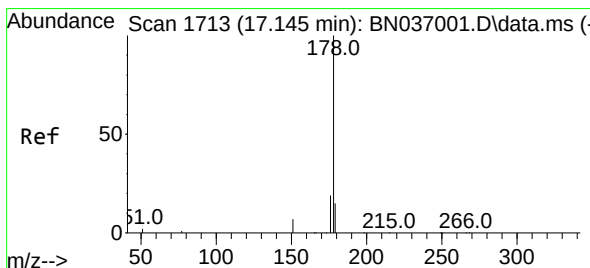
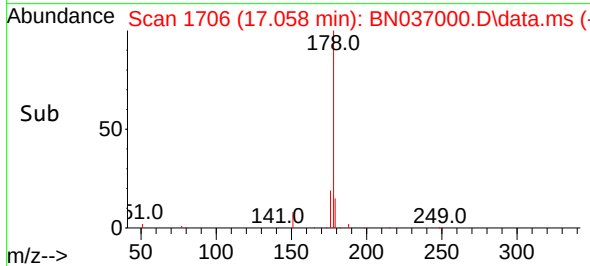
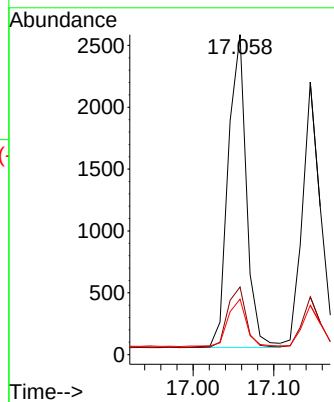
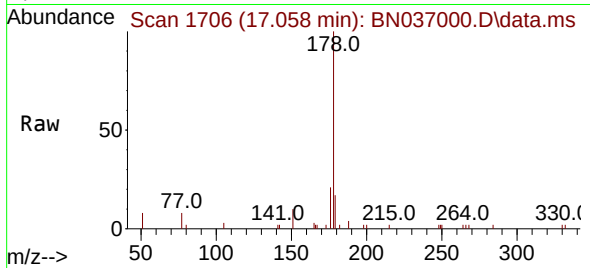




#25
Phenanthrene
Concen: 0.195 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

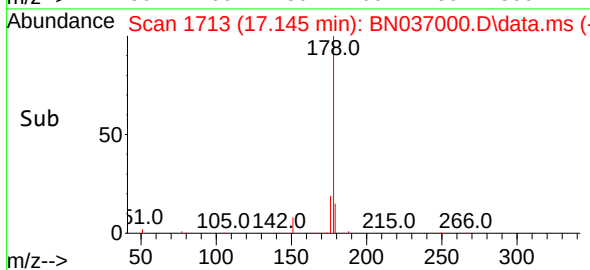
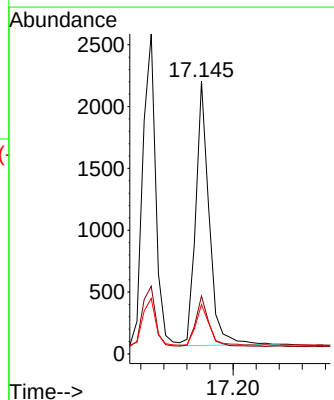
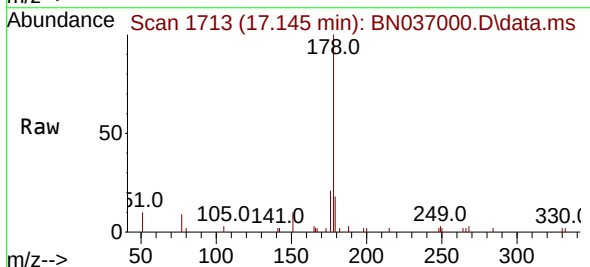
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

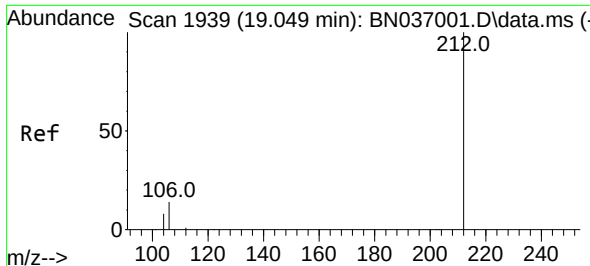
Tgt Ion:178	Resp:	3977	
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.6	12.2	18.2



#26
Anthracene
Concen: 0.186 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt	Ion:178	Resp:	3452
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.9	12.3	18.5

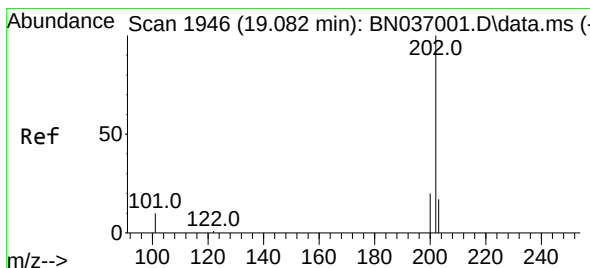
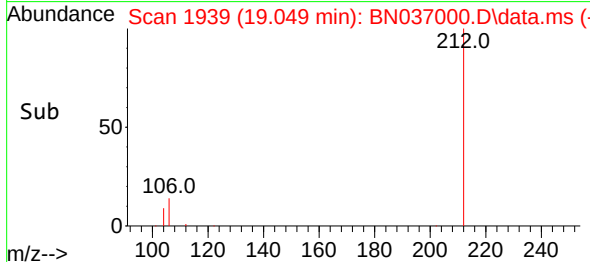
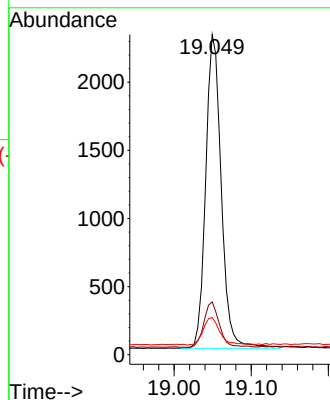
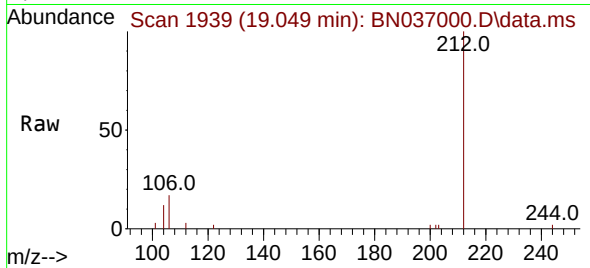




#27
Fluoranthene-d10
Concen: 0.188 ng
RT: 19.049 min Scan# 1939
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

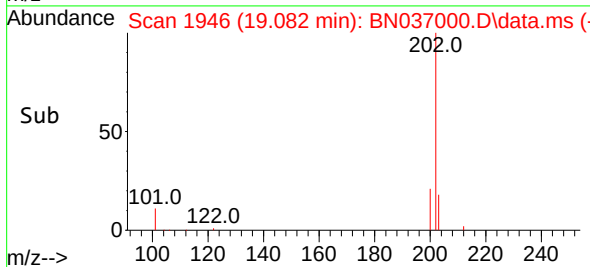
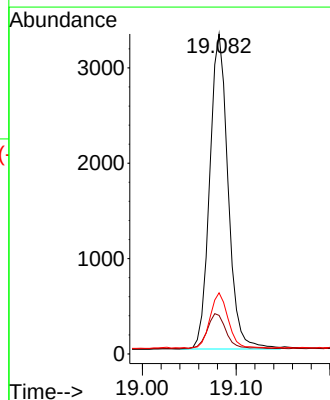
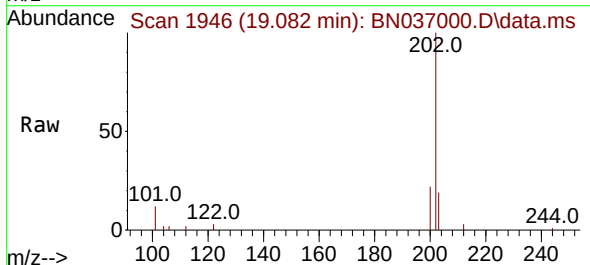
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

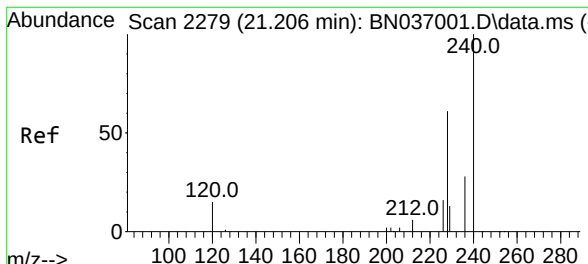
Tgt Ion:212 Resp: 3232
Ion Ratio Lower Upper
212 100
106 14.3 11.3 16.9
104 9.5 6.7 10.1



#28
Fluoranthene
Concen: 0.184 ng
RT: 19.082 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:202 Resp: 4499
Ion Ratio Lower Upper
202 100
101 11.5 8.9 13.3
203 17.6 13.8 20.8

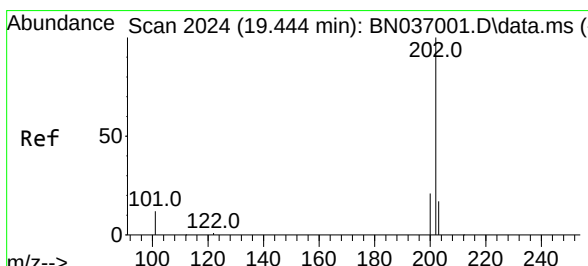
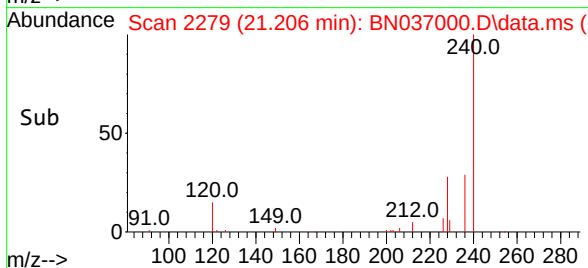
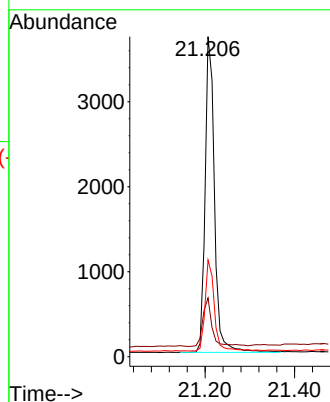
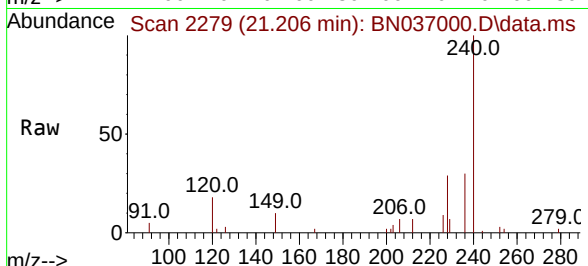




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

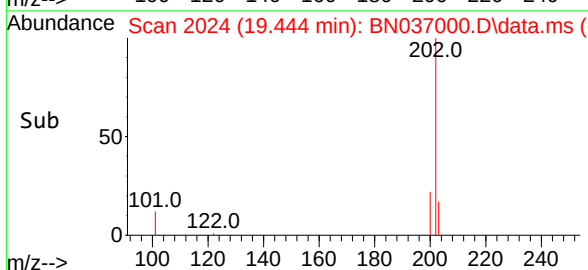
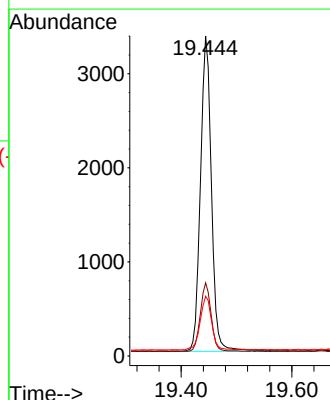
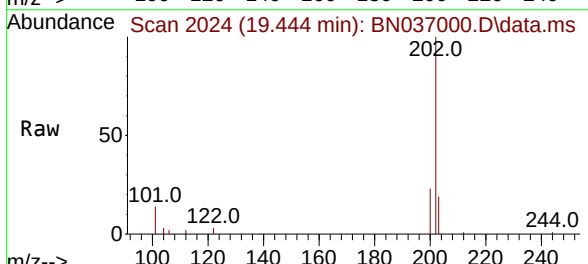
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

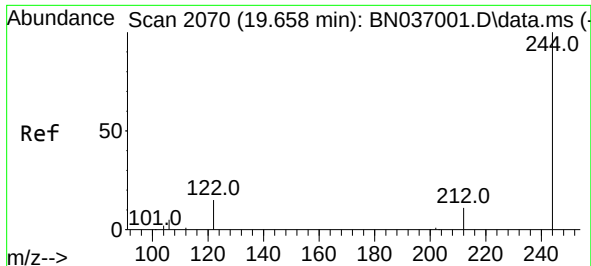
Tgt Ion:	240	Resp:	5420
Ion Ratio	Lower	Upper	
240	100		
120	18.3	15.1	22.7
236	30.2	24.0	36.0



#30
Pyrene
Concen: 0.200 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:	202	Resp:	4629
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.1	25.7
203	17.7	14.2	21.4

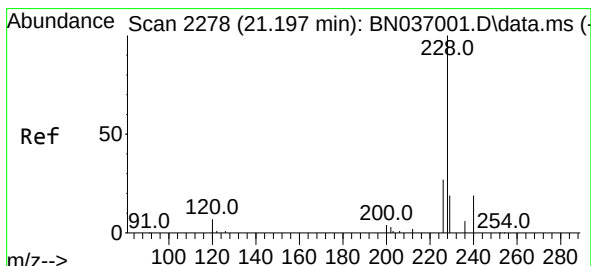
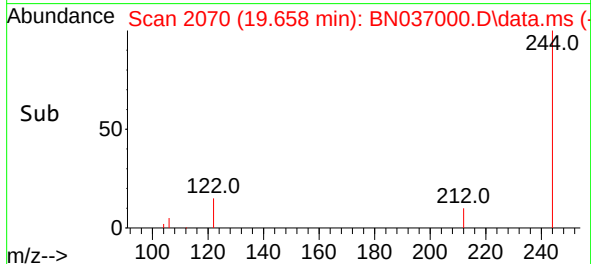
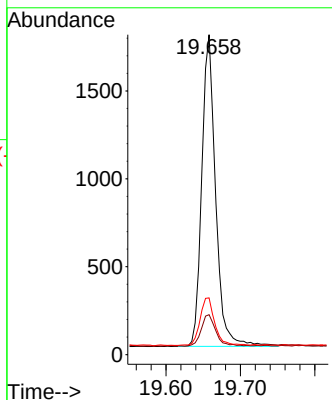
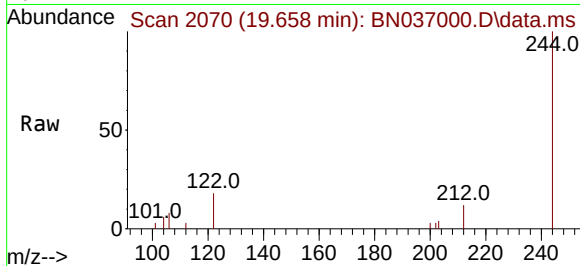




#31
 Terphenyl-d14
 Concen: 0.197 ng
 RT: 19.658 min Scan# 2070
 Delta R.T. -0.000 min
 Lab File: BN037000.D
 Acq: 13 May 2025 18:17

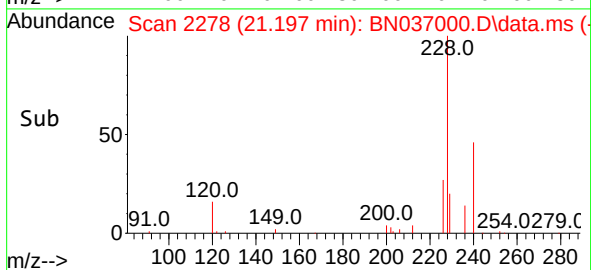
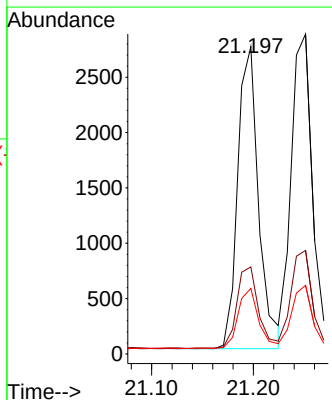
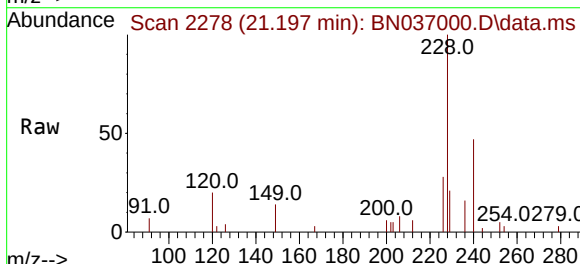
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

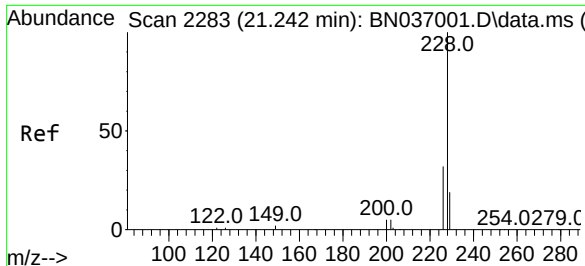
Tgt Ion:	244	Resp:	2287
Ion Ratio	Lower	Upper	
244	100		
212	12.5	9.7	14.5
122	17.7	13.4	20.0



#32
 Benzo(a)anthracene
 Concen: 0.190 ng
 RT: 21.197 min Scan# 2278
 Delta R.T. -0.000 min
 Lab File: BN037000.D
 Acq: 13 May 2025 18:17

Tgt Ion:	228	Resp:	3882
Ion Ratio	Lower	Upper	
228	100		
226	28.3	22.2	33.4
229	21.4	16.0	24.0





#33

Chrysene

Concen: 0.196 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

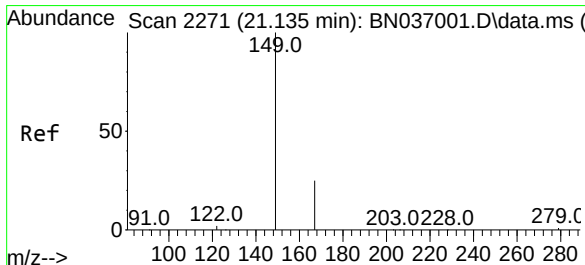
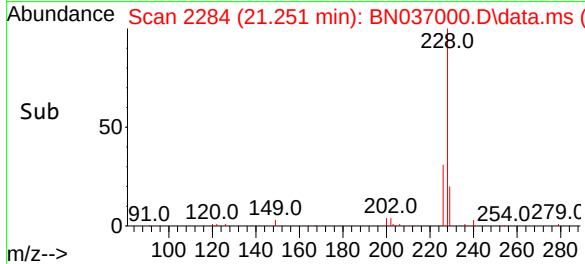
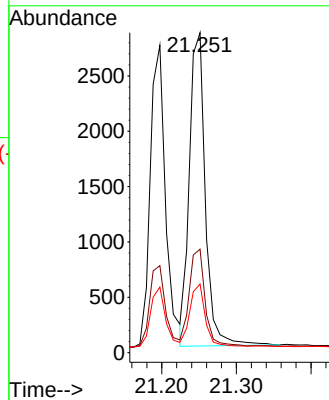
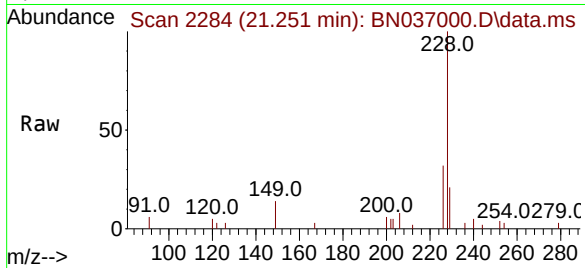
Tgt Ion:228 Resp: 4226

Ion Ratio Lower Upper

228 100

226 32.3 26.3 39.5

229 21.4 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.198 ng

RT: 21.135 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

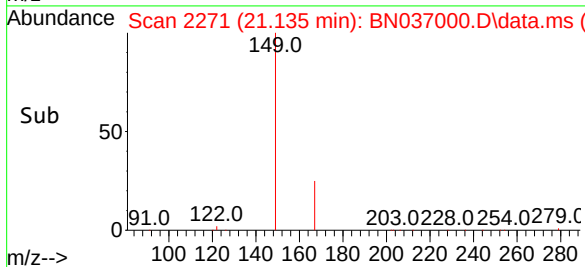
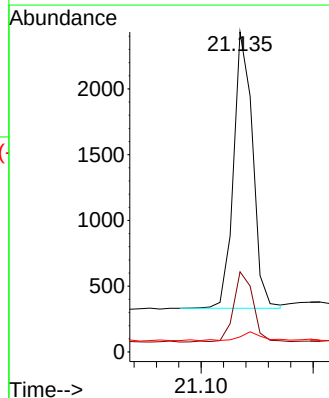
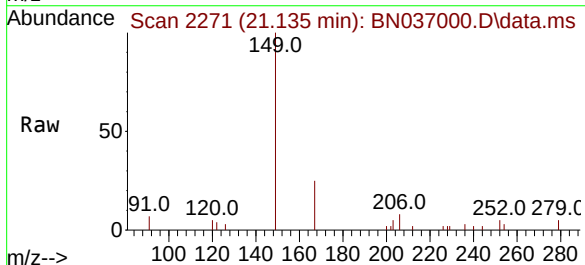
Tgt Ion:149 Resp: 2490

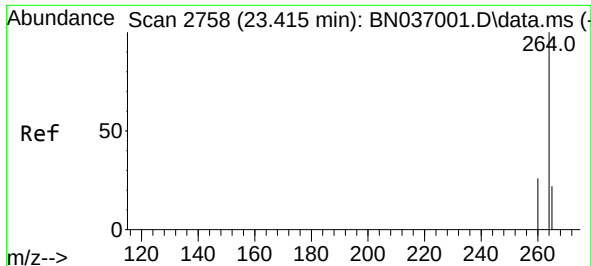
Ion Ratio Lower Upper

149 100

167 26.4 20.6 30.8

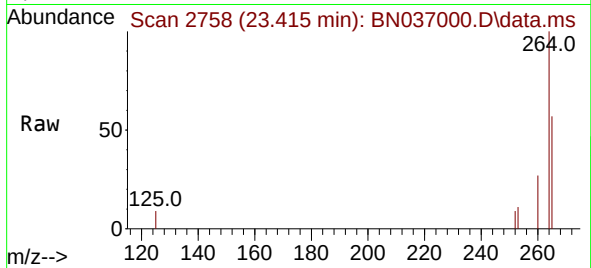
279 3.8 2.6 3.8





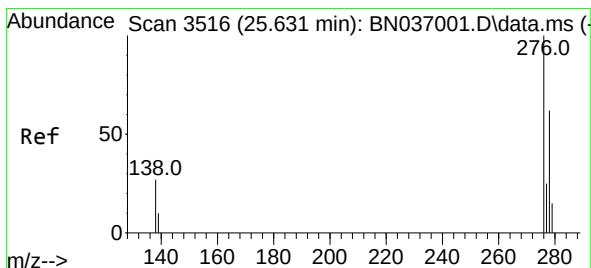
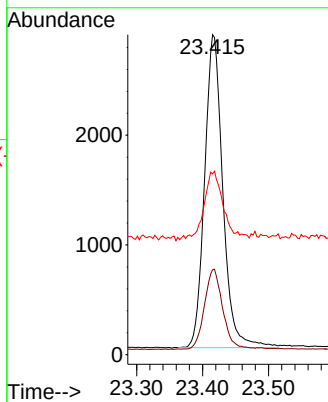
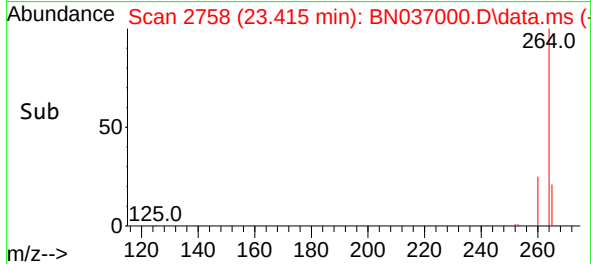
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.415 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

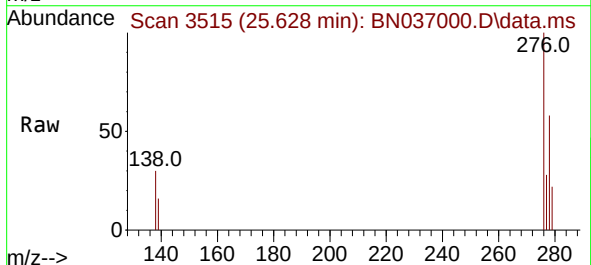


Tgt Ion:264 Resp: 5487

Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.9	32.9
265	56.5	51.6	77.4

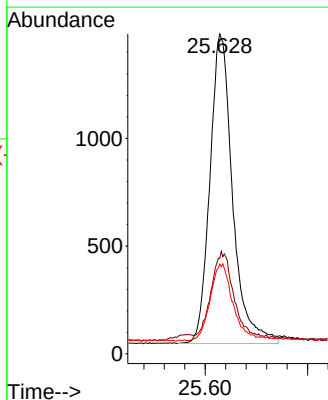
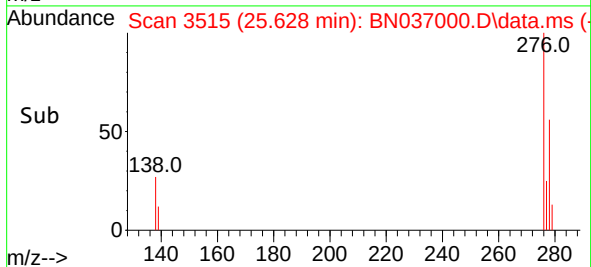


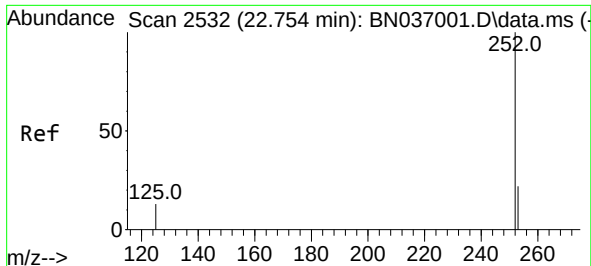
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.198 ng
RT: 25.628 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17



Tgt Ion:276 Resp: 4426

Ion	Ratio	Lower	Upper
276	100		
138	27.9	22.7	34.1
277	24.6	20.0	30.0

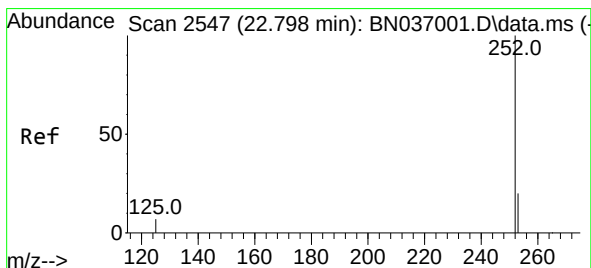
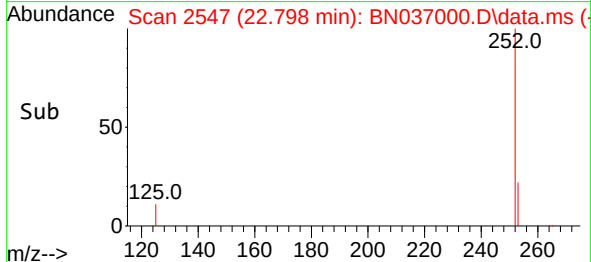
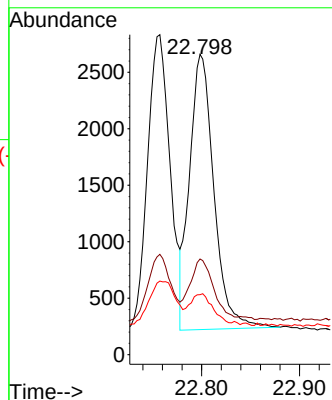
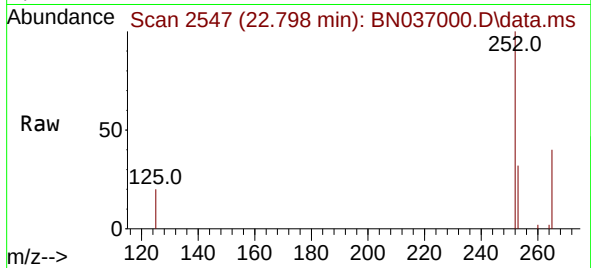




#37
Benzo(b)fluoranthene
Concen: 0.185 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.044 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

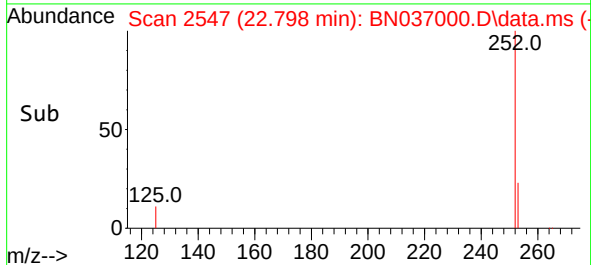
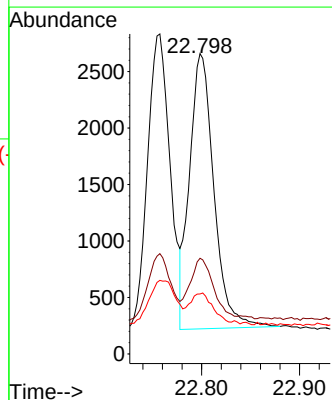
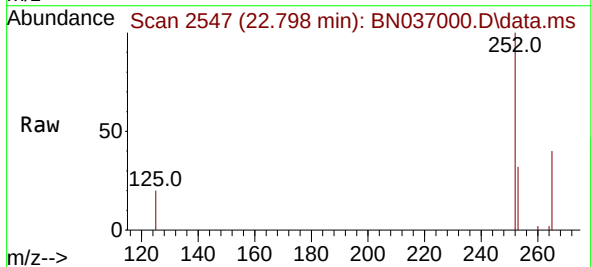
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

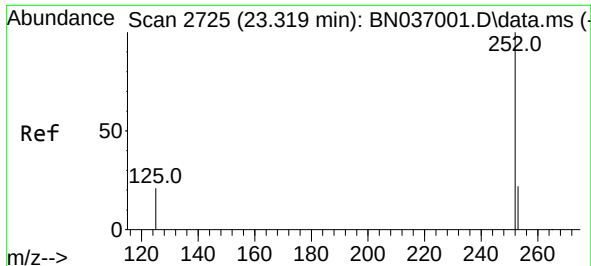
Tgt Ion:	252	Resp:	4219
Ion Ratio	Lower	Upper	
252	100		
253	31.9	21.8	32.6
125	20.0	14.6	21.8



#38
Benzo(k)fluoranthene
Concen: 0.188 ng
RT: 22.798 min Scan# 2547
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:	252	Resp:	4219
Ion Ratio	Lower	Upper	
252	100		
253	31.9	21.4	32.2
125	20.0	13.0	19.4#





#39

Benzo(a)pyrene

Concen: 0.191 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

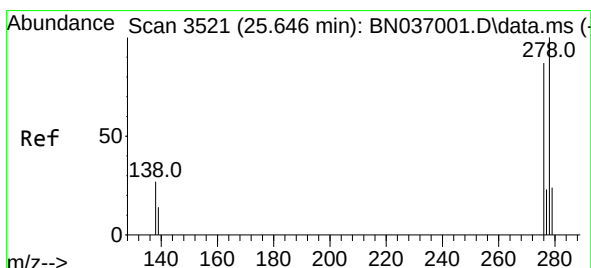
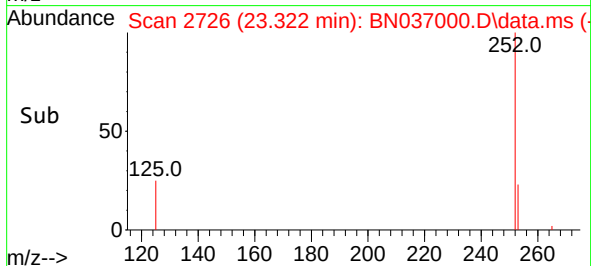
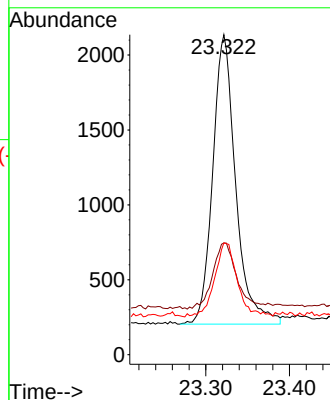
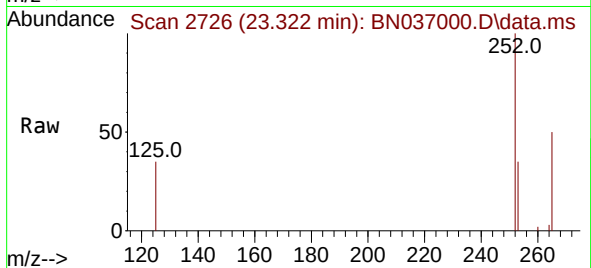
Tgt Ion:252 Resp: 3685

Ion Ratio Lower Upper

252 100

253 34.9 23.8 35.6

125 35.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.194 ng

RT: 25.646 min Scan# 3521

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

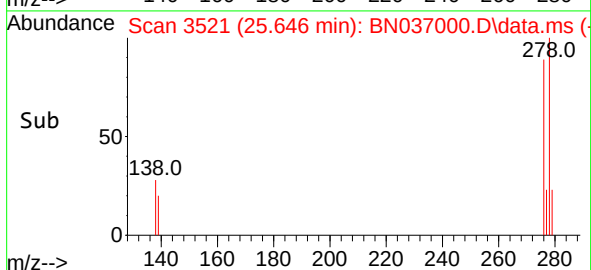
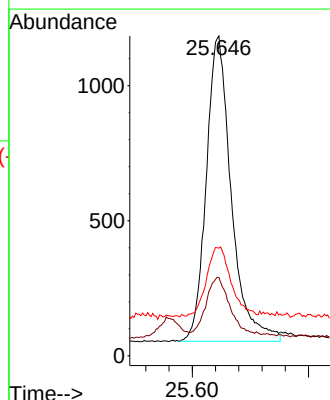
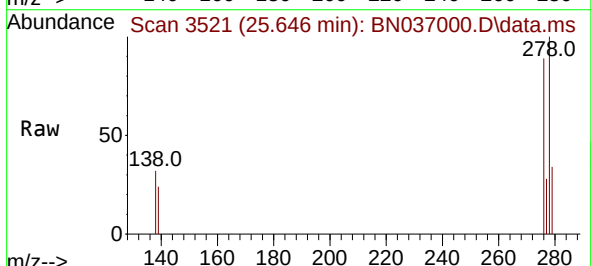
Tgt Ion:278 Resp: 3380

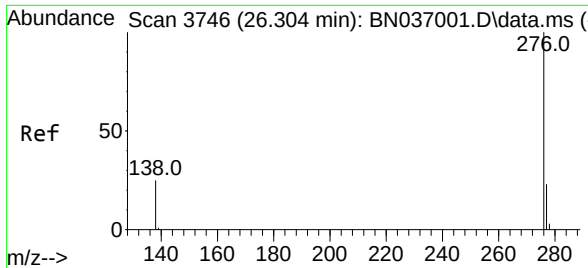
Ion Ratio Lower Upper

278 100

139 24.5 17.4 26.0

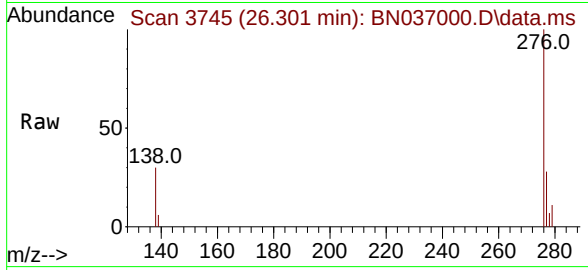
279 33.7 24.6 37.0



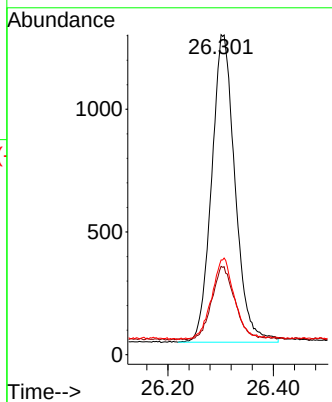
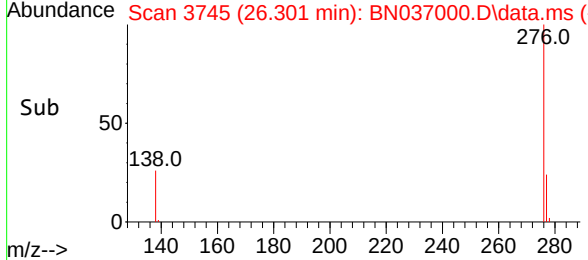


#41
Benzo(g,h,i)perylene
Concen: 0.204 ng
RT: 26.301 min Scan# 31
Delta R.T. -0.003 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:	276	Resp:	3861
Ion	Ratio	Lower	Upper
276	100		
277	27.6	20.2	30.4
138	29.6	22.0	33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
 Data File : BN037080.D
 Acq On : 20 May 2025 18:47
 Operator : RC/JU
 Sample : PB168032BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BS

Quant Time: May 21 01:38:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

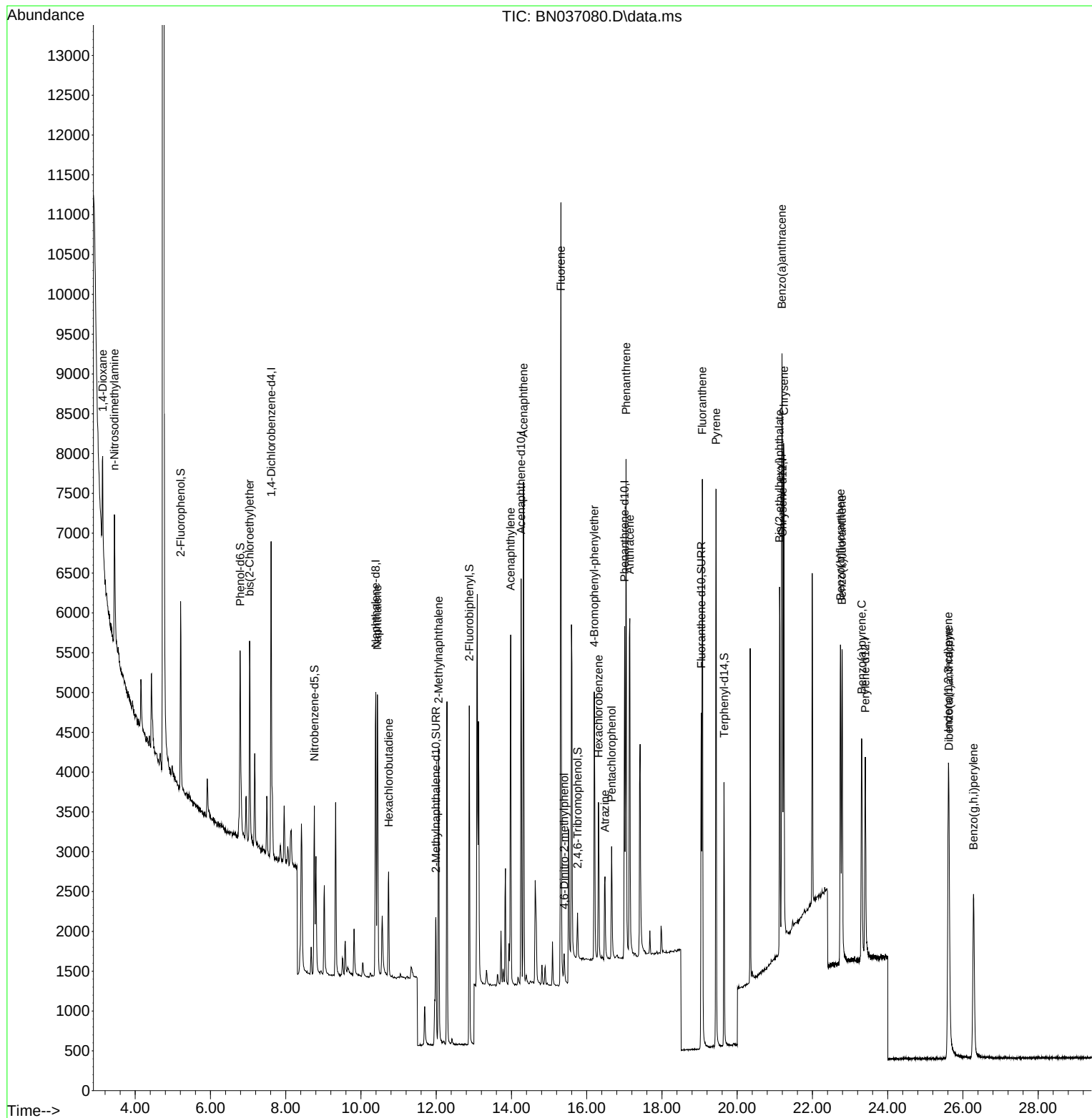
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1842	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4702	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2635	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5352	0.400	ng	# 0.00
29) Chrysene-d12	21.206	240	4047	0.400	ng	# 0.00
35) Perylene-d12	23.404	264	3455	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1594	0.330	ng	0.00
5) Phenol-d6	6.788	99	1941	0.321	ng	0.00
8) Nitrobenzene-d5	8.760	82	1652	0.323	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	3219	0.486	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	317	0.274	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4016	0.333	ng	-0.01
27) Fluoranthene-d10	19.045	212	4775	0.325	ng	0.00
31) Terphenyl-d14	19.649	244	3340	0.386	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.133	88	695	0.307	ng	# 27
3) n-Nitrosodimethylamine	3.444	42	1538	0.317	ng	# 95
6) bis(2-Chloroethyl)ether	7.040	93	1788	0.322	ng	98
9) Naphthalene	10.436	128	4588	0.330	ng	99
10) Hexachlorobutadiene	10.735	225	1049	0.360	ng	# 98
12) 2-Methylnaphthalene	12.062	142	2706	0.303	ng	98
16) Acenaphthylene	13.978	152	4675	0.365	ng	100
17) Acenaphthene	14.320	154	2783	0.332	ng	99
18) Fluorene	15.314	166	3819	0.347	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	316	0.314	ng	# 92
21) 4-Bromophenyl-phenylether	16.202	248	1177	0.348	ng	# 79
22) Hexachlorobenzene	16.313	284	1258	0.348	ng	95
23) Atrazine	16.487	200	1058	0.359	ng	97
24) Pentachlorophenol	16.661	266	697	0.349	ng	98
25) Phenanthrene	17.046	178	6039	0.345	ng	100
26) Anthracene	17.145	178	5549	0.349	ng	100
28) Fluoranthene	19.073	202	6623	0.317	ng	99
30) Pyrene	19.440	202	6692	0.387	ng	100
32) Benzo(a)anthracene	21.189	228	5361	0.352	ng	99
33) Chrysene	21.242	228	5814	0.361	ng	97
34) Bis(2-ethylhexyl)phtha...	21.126	149	3282	0.350	ng	99
36) Indeno(1,2,3-cd)pyrene	25.611	276	4926	0.349	ng	98
37) Benzo(b)fluoranthene	22.746	252	4963	0.346	ng	99
38) Benzo(k)fluoranthene	22.787	252	5215	0.368	ng	97
39) Benzo(a)pyrene	23.307	252	4345	0.357	ng	# 92
40) Dibenzo(a,h)anthracene	25.628	278	3843	0.350	ng	99
41) Benzo(g,h,i)perylene	26.280	276	4175	0.350	ng	98

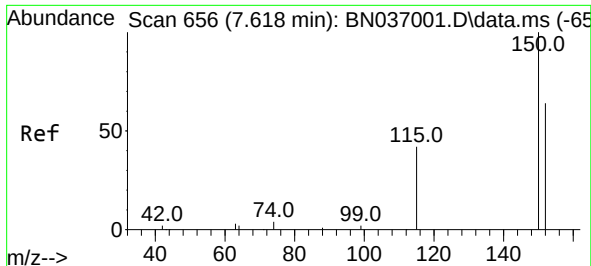
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037080.D
Acq On : 20 May 2025 18:47
Operator : RC/JU
Sample : PB168032BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168032BS

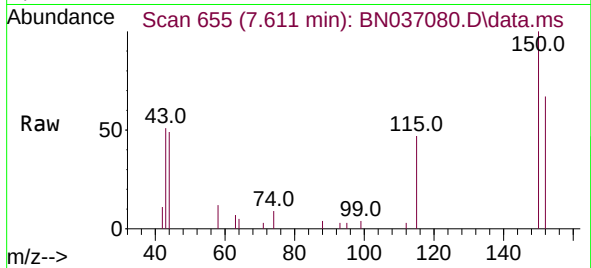
Quant Time: May 21 01:38:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



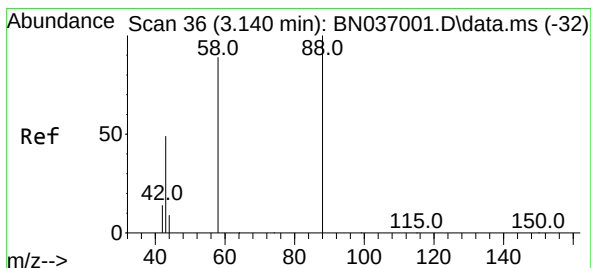
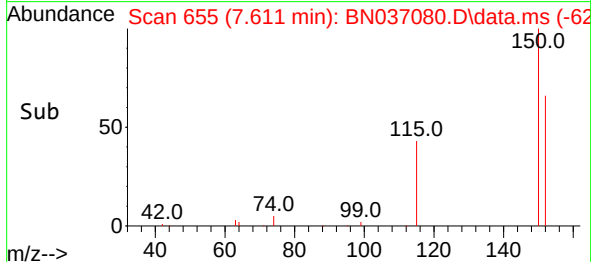
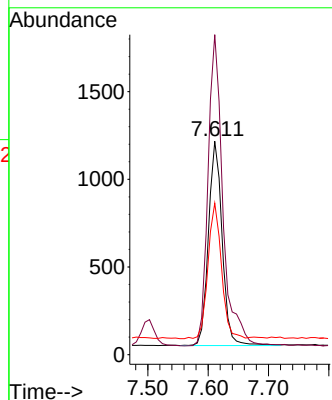


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.611 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BS

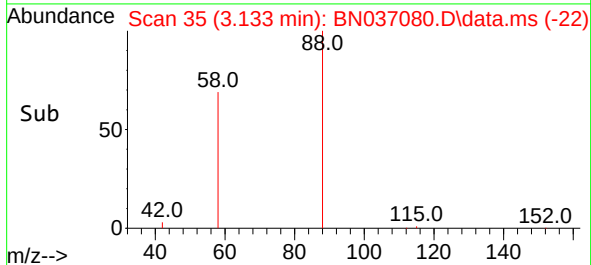
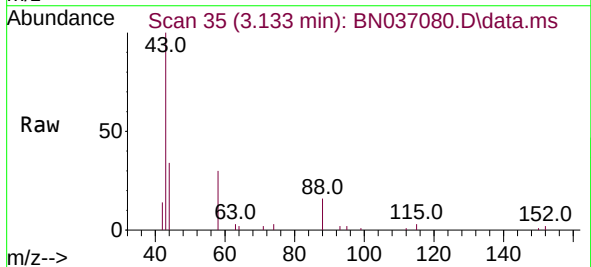
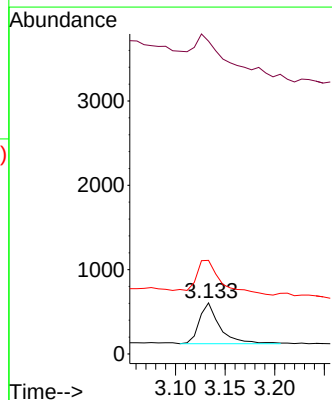


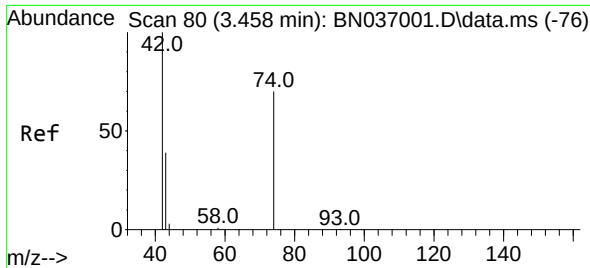
Tgt Ion: 152 Resp: 1842
 Ion Ratio Lower Upper
 152 100
 150 150.0 123.9 185.9
 115 71.0 55.8 83.8



#2
 1,4-Dioxane
 Concen: 0.307 ng
 RT: 3.133 min Scan# 35
 Delta R.T. -0.007 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

Tgt Ion: 88 Resp: 695
 Ion Ratio Lower Upper
 88 100
 43 152.9 37.4 56.0#
 58 109.8 68.8 103.2#

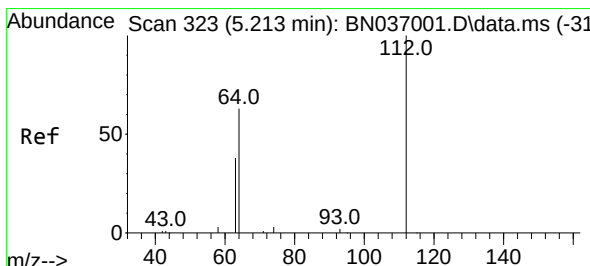
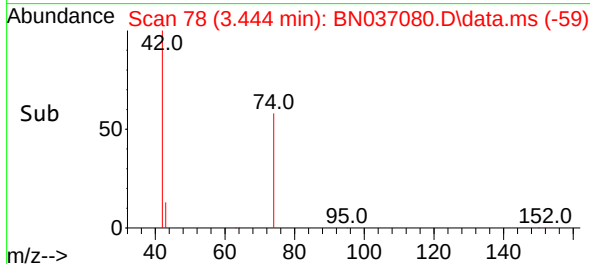
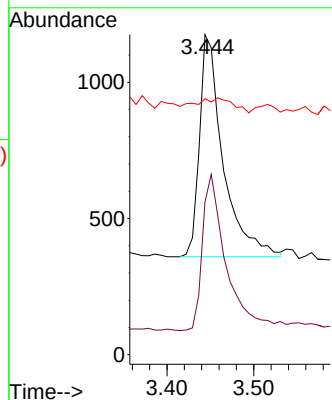
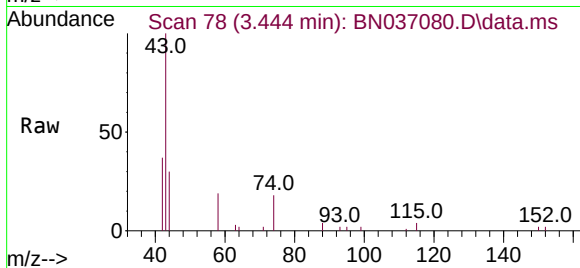




#3
 n-Nitrosodimethylamine
 Concen: 0.317 ng
 RT: 3.444 min Scan# 71
 Delta R.T. -0.014 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

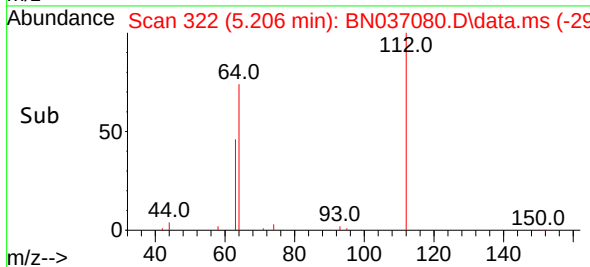
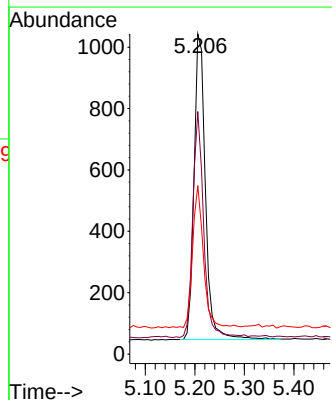
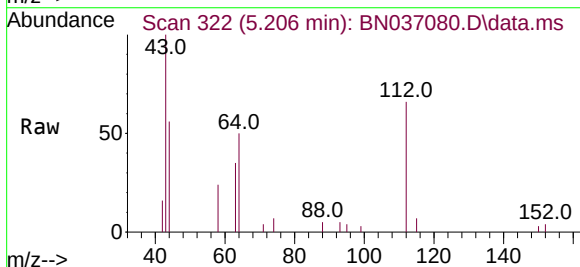
Instrument :
 BNA_N
 ClientSampleId :
 PB168032BS

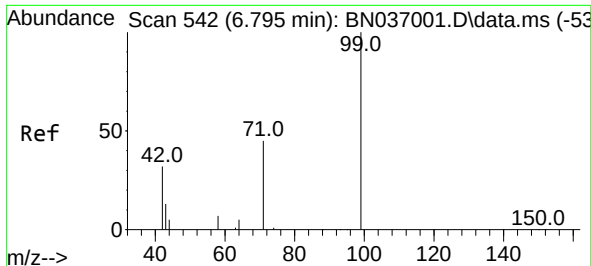
Tgt Ion: 42 Resp: 1538
 Ion Ratio Lower Upper
 42 100
 74 72.7 59.8 89.6
 44 7.8 11.9 17.9#



#4
 2-Fluorophenol
 Concen: 0.330 ng
 RT: 5.206 min Scan# 322
 Delta R.T. -0.007 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

Tgt Ion: 112 Resp: 1594
 Ion Ratio Lower Upper
 112 100
 64 70.5 55.7 83.5
 63 44.2 34.6 51.8

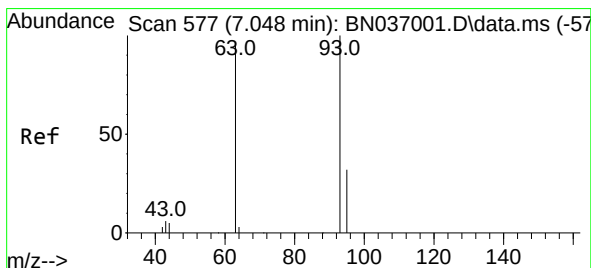
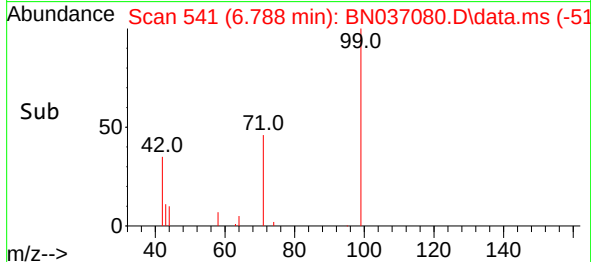
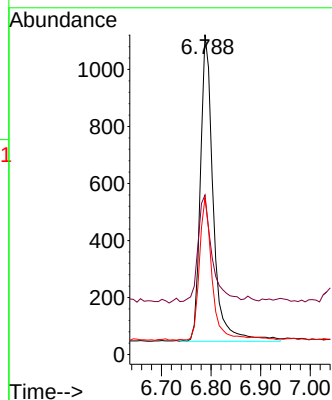
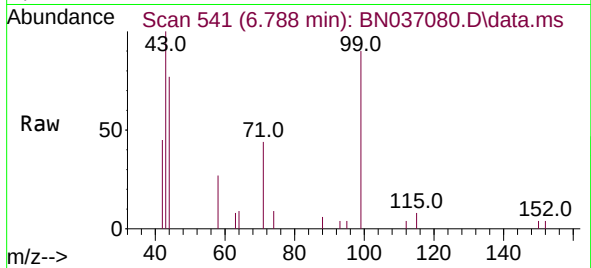




#5
Phenol-d6
Concen: 0.321 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

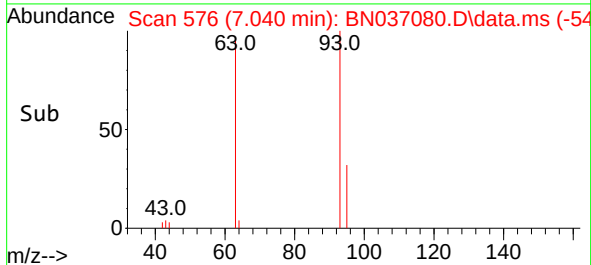
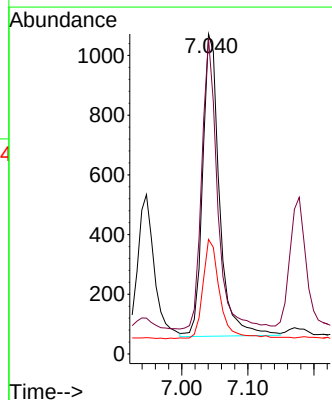
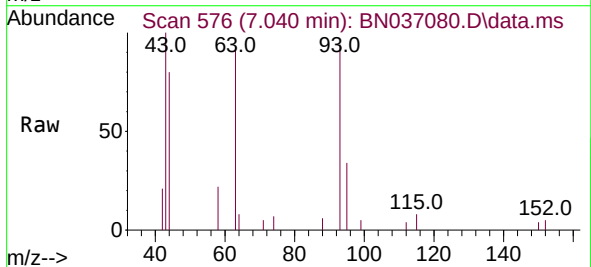
Instrument :
BNA_N
ClientSampleId :
PB168032BS

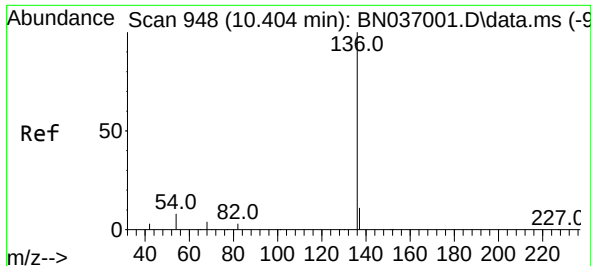
Tgt Ion: 99 Resp: 1941
Ion Ratio Lower Upper
99 100
42 37.5 29.3 43.9
71 45.0 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.322 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion: 93 Resp: 1788
Ion Ratio Lower Upper
93 100
63 89.7 70.1 105.1
95 33.8 26.2 39.2

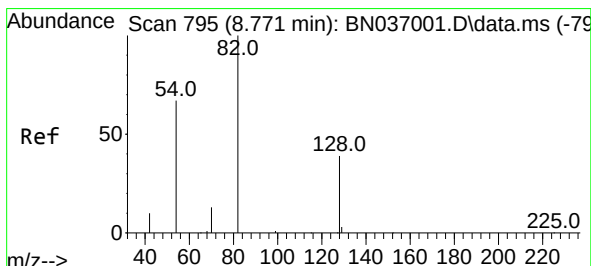
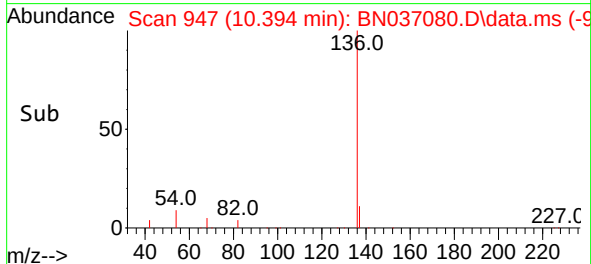
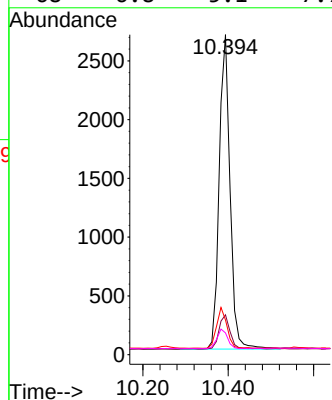
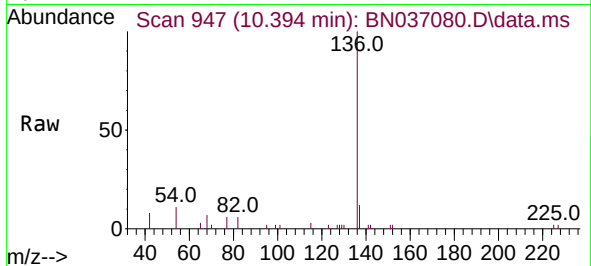




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

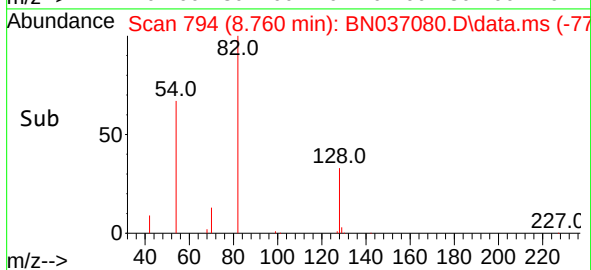
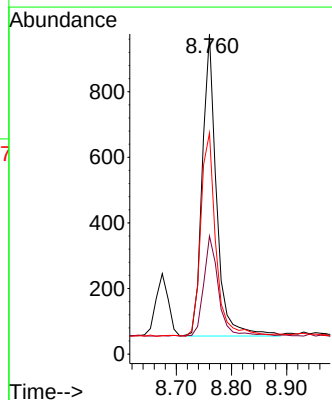
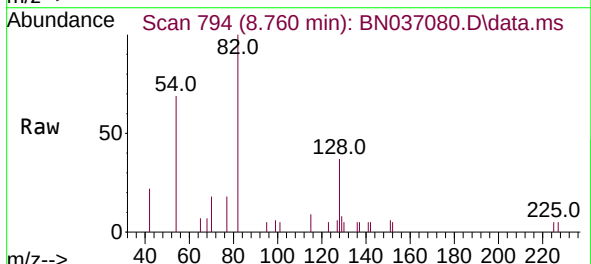
Instrument :
BNA_N
ClientSampleId :
PB168032BS

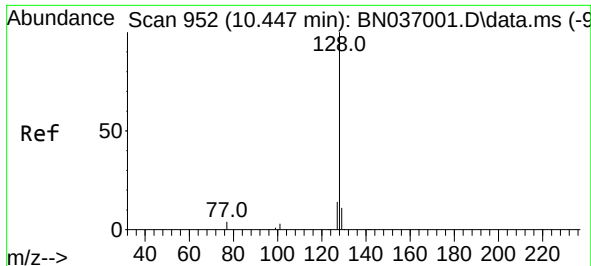
Tgt Ion:	136	Resp:	4702
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	10.8	8.5	12.7
68	6.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.323 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:	82	Resp:	1652
Ion	Ratio	Lower	Upper
82	100		
128	36.9	34.0	51.0
54	69.1	55.0	82.4

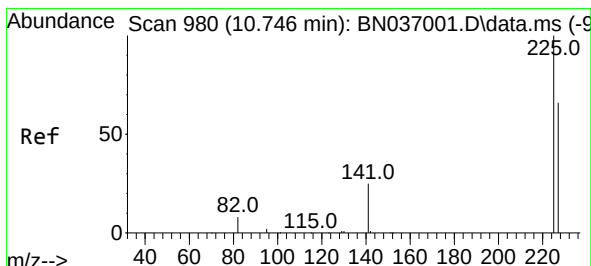
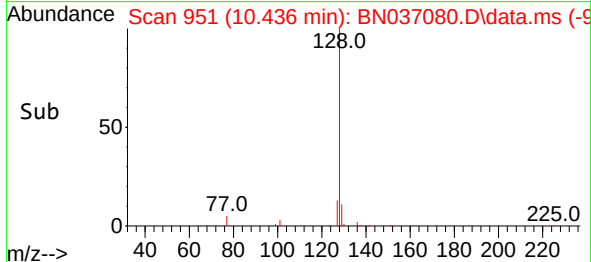
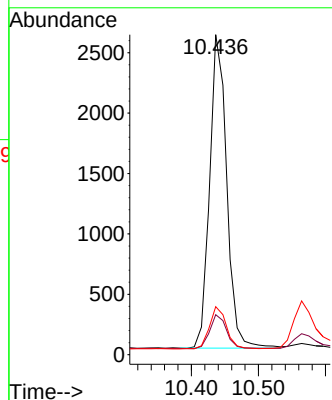
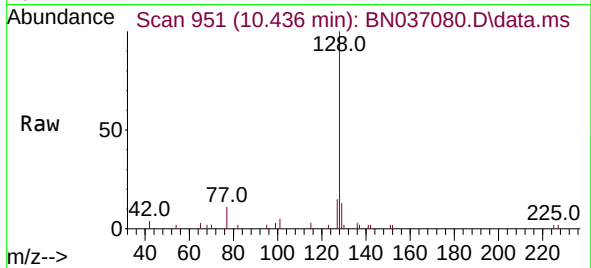




#9
Naphthalene
Concen: 0.330 ng
RT: 10.436 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

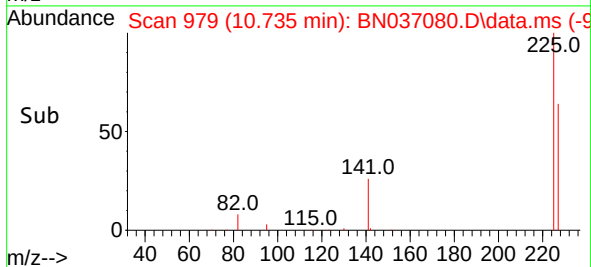
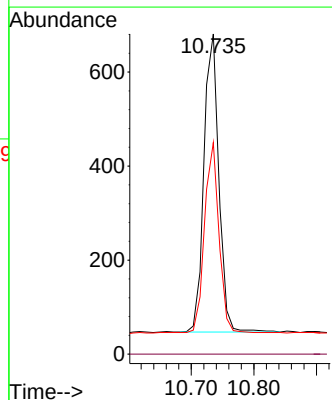
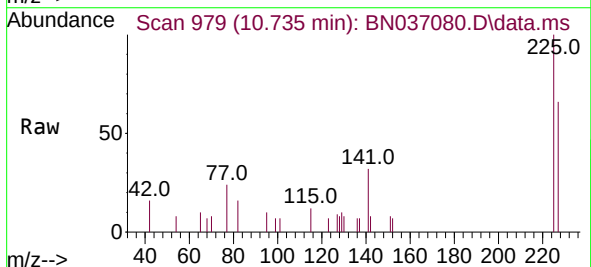
Instrument :
BNA_N
ClientSampleId :
PB168032BS

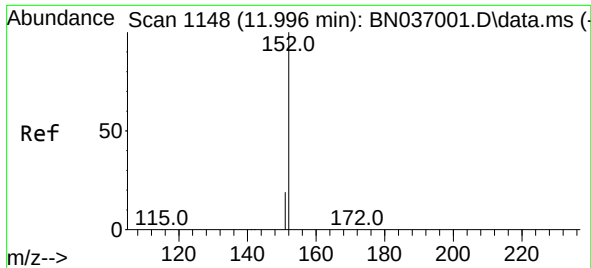
Tgt Ion:	128	Resp:	4588
Ion	Ratio	Lower	Upper
128	100		
129	12.5	9.7	14.5
127	15.0	12.4	18.6



#10
Hexachlorobutadiene
Concen: 0.360 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:	225	Resp:	1049
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.1	50.9	76.3

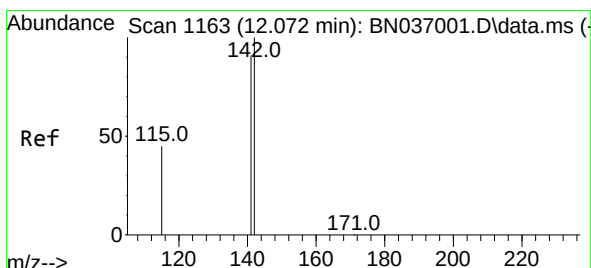
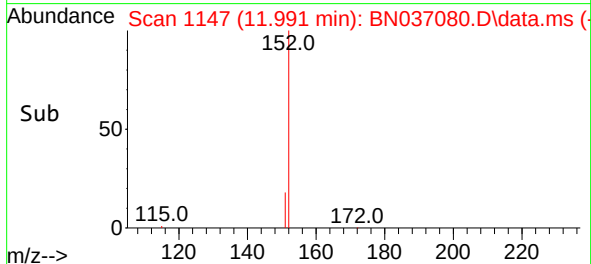
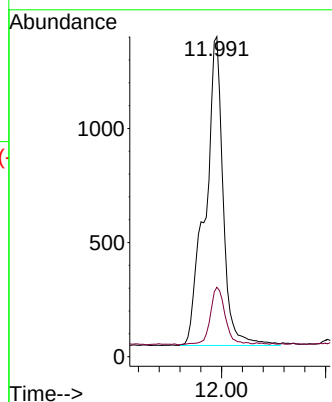
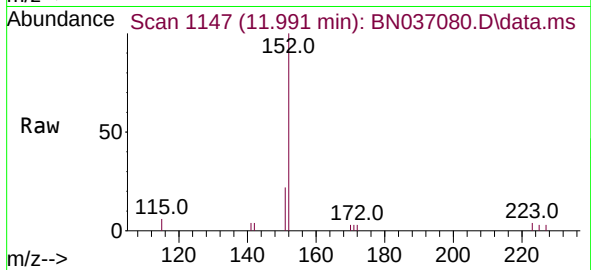




#11
2-Methylnaphthalene-d10
Concen: 0.486 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

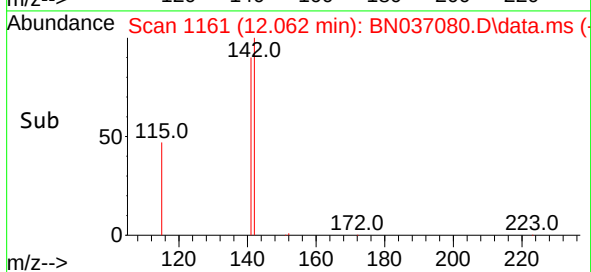
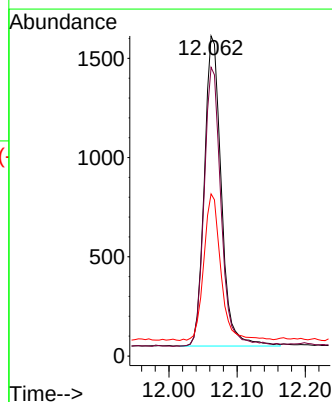
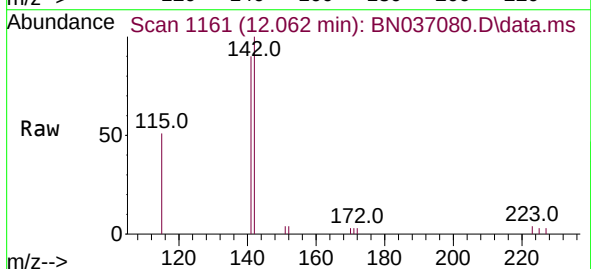
Instrument :
BNA_N
ClientSampleId :
PB168032BS

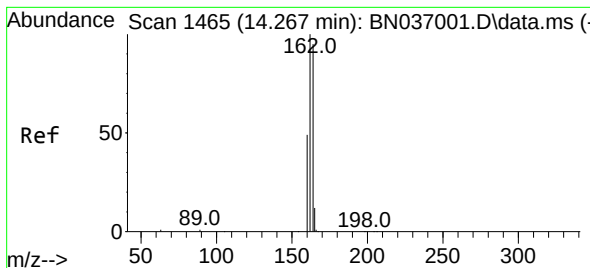
Tgt Ion:152 Resp: 3219
Ion Ratio Lower Upper
152 100
151 15.5 17.5 26.3#



#12
2-Methylnaphthalene
Concen: 0.303 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:142 Resp: 2706
Ion Ratio Lower Upper
142 100
141 90.2 73.3 109.9
115 50.7 38.4 57.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.256 min Scan# 1464

Delta R.T. -0.011 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS

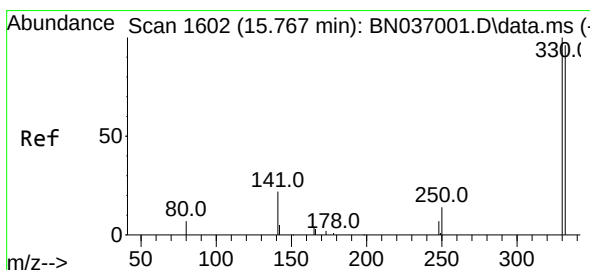
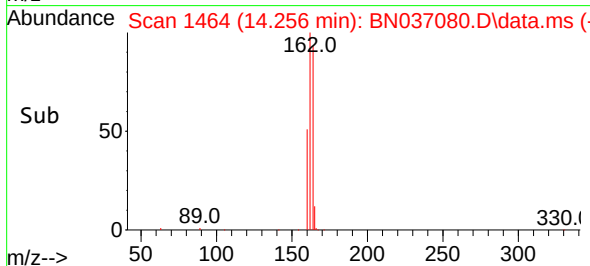
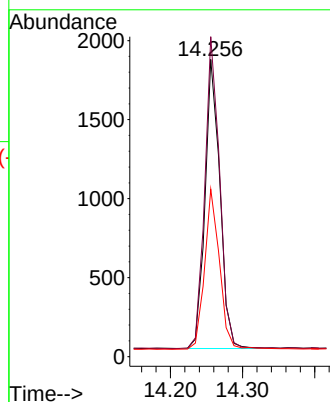
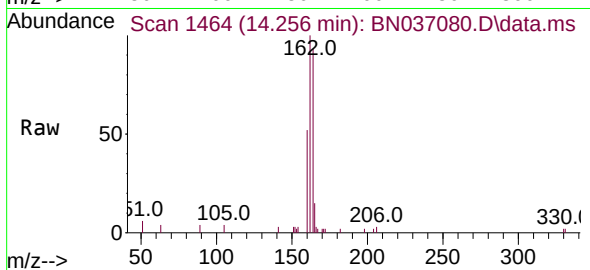
Tgt Ion:164 Resp: 2635

Ion Ratio Lower Upper

164 100

162 107.7 84.2 126.4

160 56.4 42.6 63.8



#14

2,4,6-Tribromophenol

Concen: 0.274 ng

RT: 15.755 min Scan# 1601

Delta R.T. -0.012 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

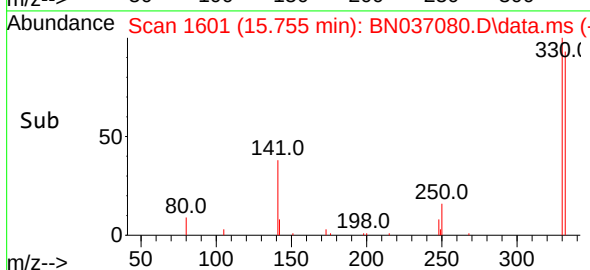
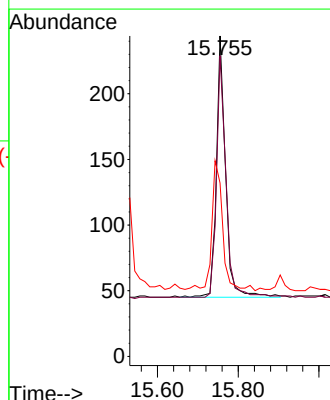
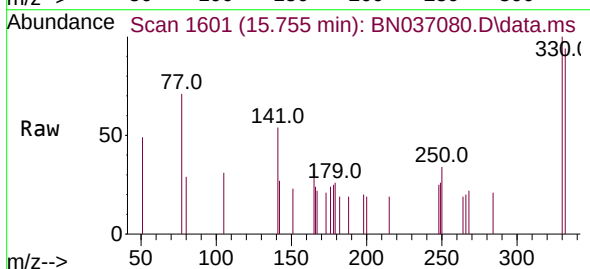
Tgt Ion:330 Resp: 317

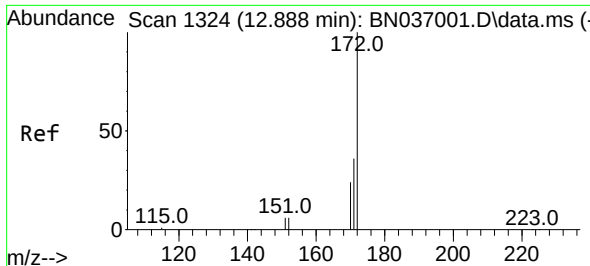
Ion Ratio Lower Upper

330 100

332 94.3 73.8 110.8

141 55.8 43.9 65.9

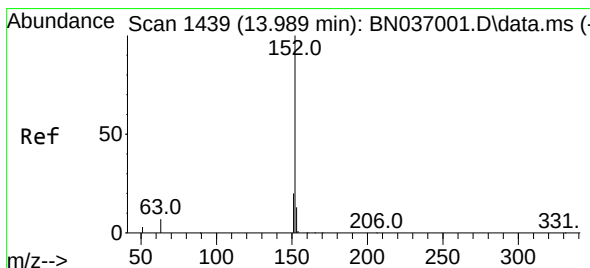
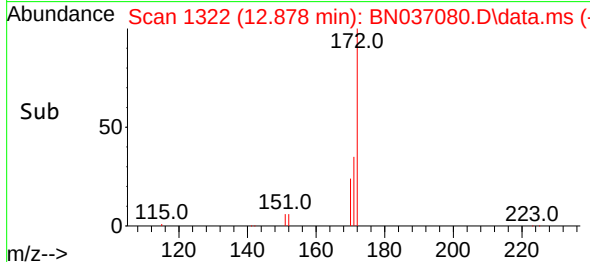
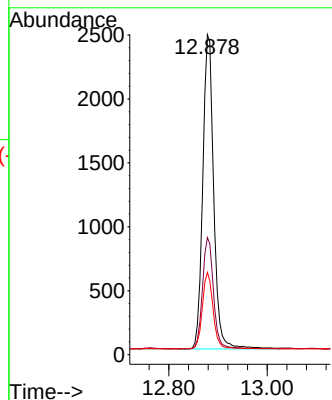
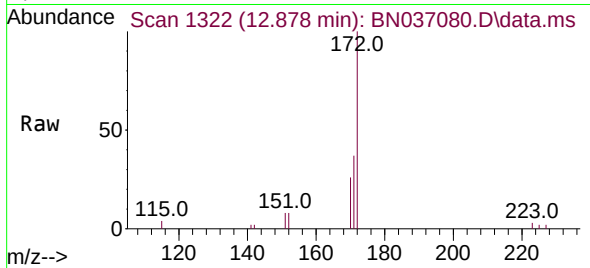




#15
2-Fluorobiphenyl
Concen: 0.333 ng
RT: 12.878 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

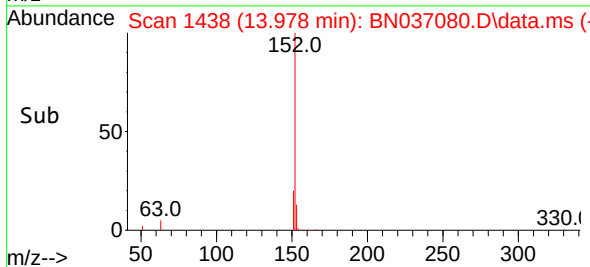
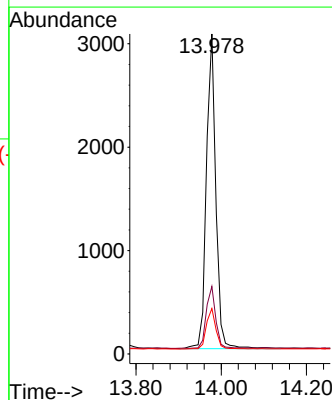
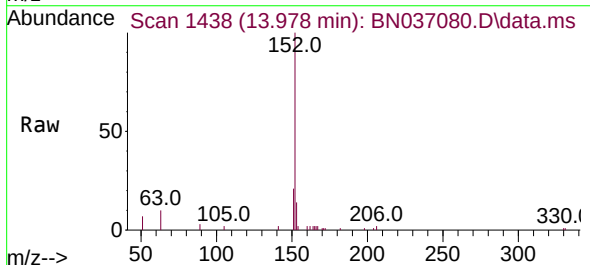
Instrument :
BNA_N
ClientSampleId :
PB168032BS

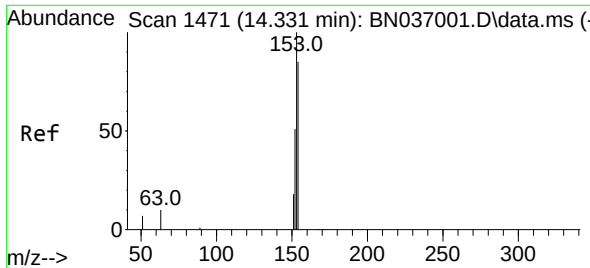
Tgt Ion:172 Resp: 4016
Ion Ratio Lower Upper
172 100
171 36.6 29.2 43.8
170 25.7 20.5 30.7



#16
Acenaphthylene
Concen: 0.365 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:152 Resp: 4675
Ion Ratio Lower Upper
152 100
151 19.8 16.1 24.1
153 13.1 10.5 15.7

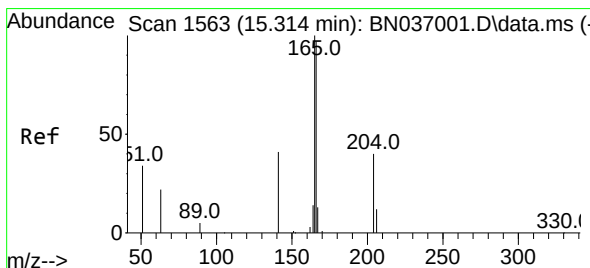
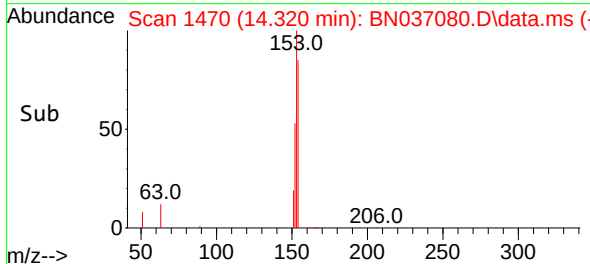
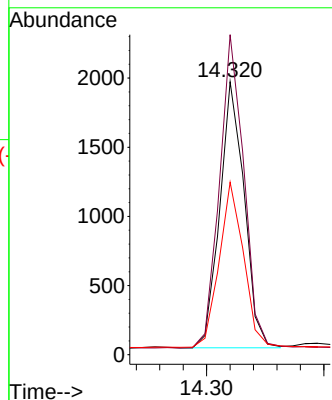
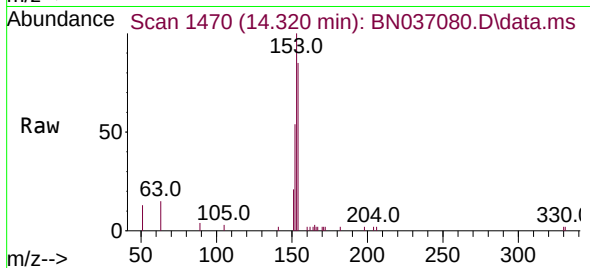




#17
Acenaphthene
Concen: 0.332 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

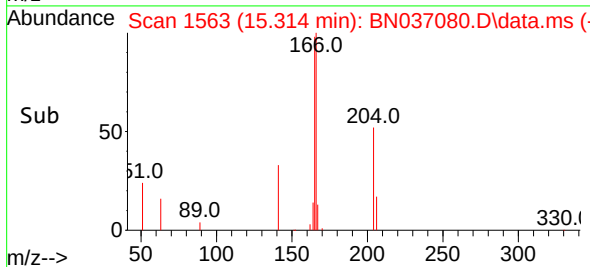
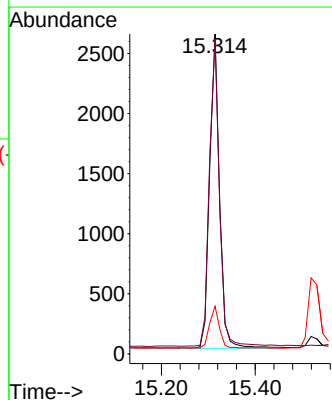
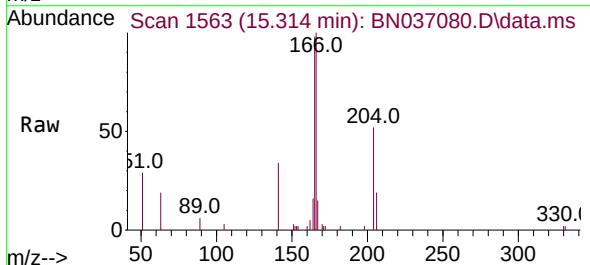
Instrument :
BNA_N
ClientSampleId :
PB168032BS

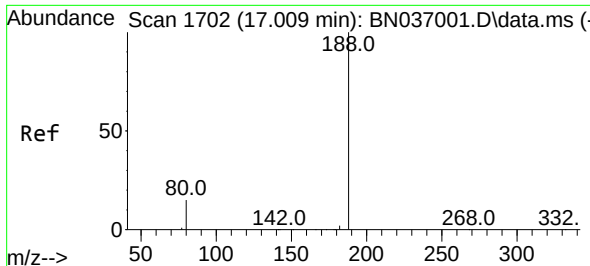
Tgt Ion:154 Resp: 2783
Ion Ratio Lower Upper
154 100
153 118.0 94.2 141.4
152 62.8 49.4 74.0



#18
Fluorene
Concen: 0.347 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:166 Resp: 3819
Ion Ratio Lower Upper
166 100
165 99.1 80.6 120.8
167 13.4 10.6 16.0

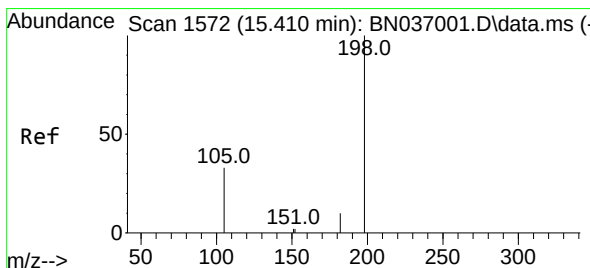
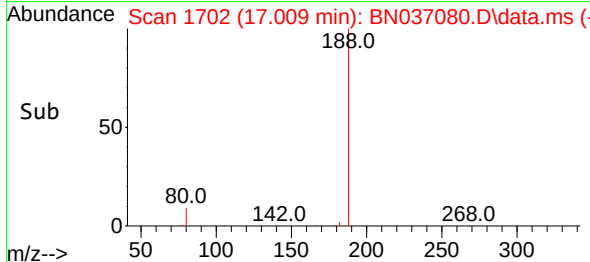
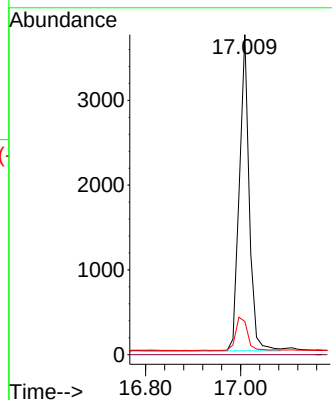
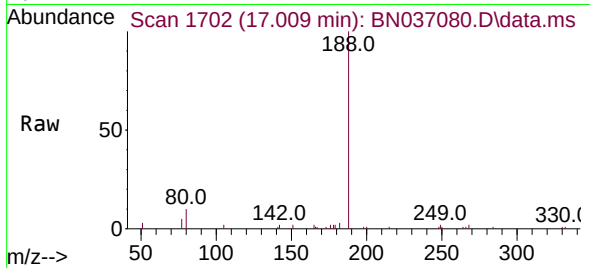




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

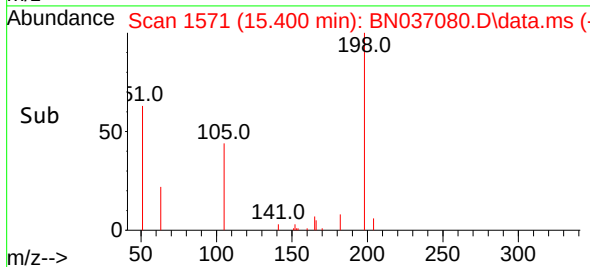
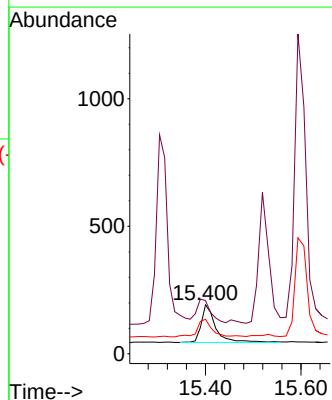
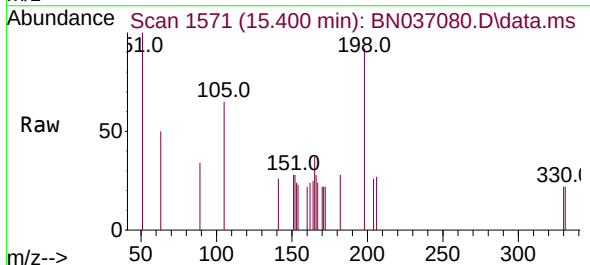
Instrument :
BNA_N
ClientSampleId :
PB168032BS

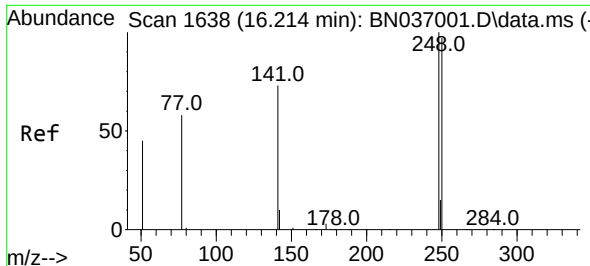
Tgt Ion:188 Resp: 5352
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.4 13.4 20.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.314 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:198 Resp: 316
Ion Ratio Lower Upper
198 100
51 108.9 87.8 131.6
105 70.8 44.2 66.4#

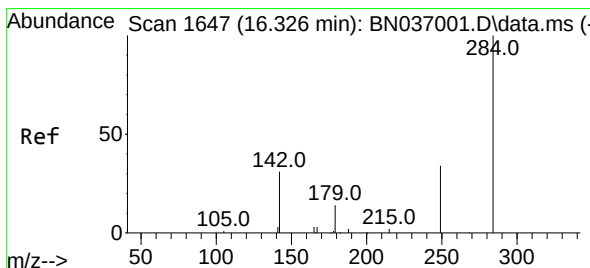
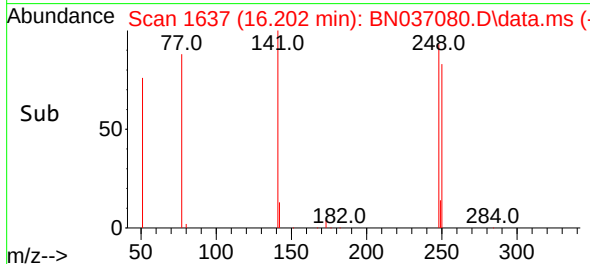
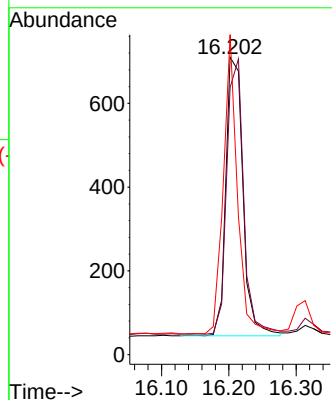
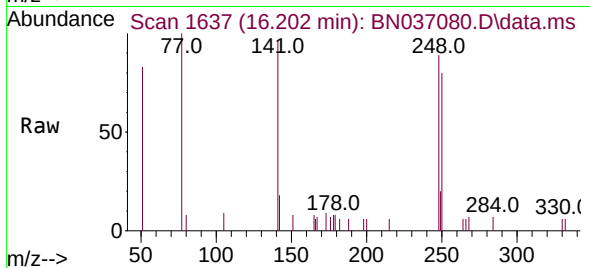




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

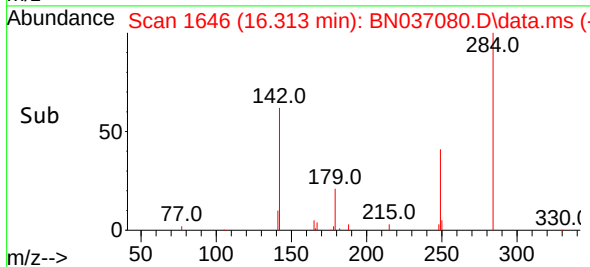
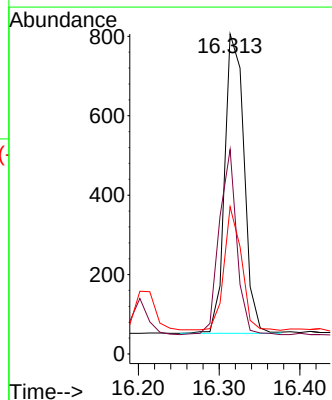
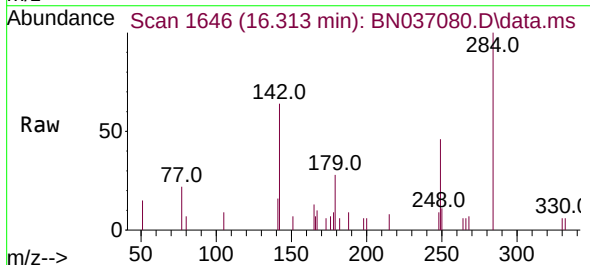
Instrument :
BNA_N
ClientSampleId :
PB168032BS

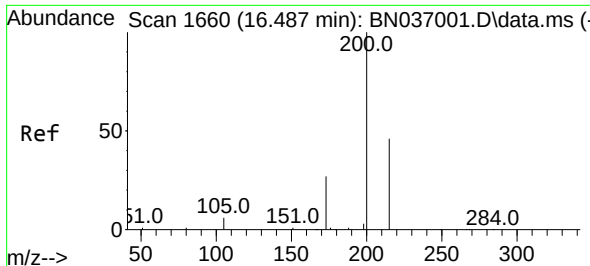
Tgt Ion:248 Resp: 1177
Ion Ratio Lower Upper
248 100
250 89.9 78.1 117.1
141 107.6 59.7 89.5#



#22
Hexachlorobenzene
Concen: 0.348 ng
RT: 16.313 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:284 Resp: 1258
Ion Ratio Lower Upper
284 100
142 56.0 41.2 61.8
249 37.4 28.7 43.1

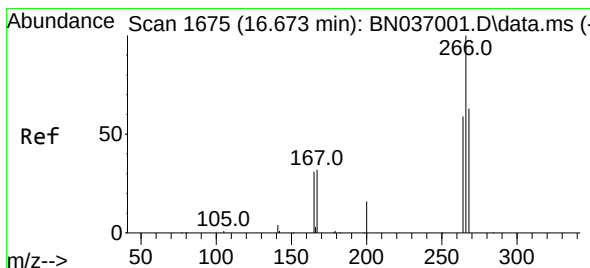
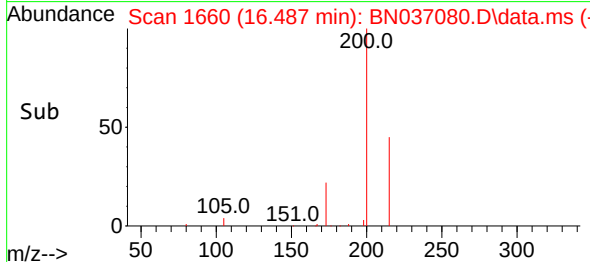
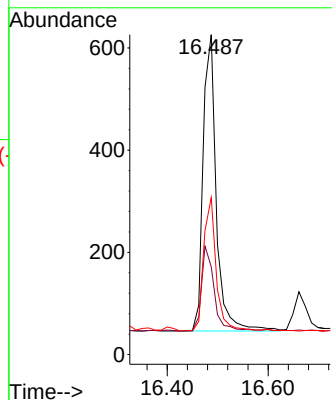
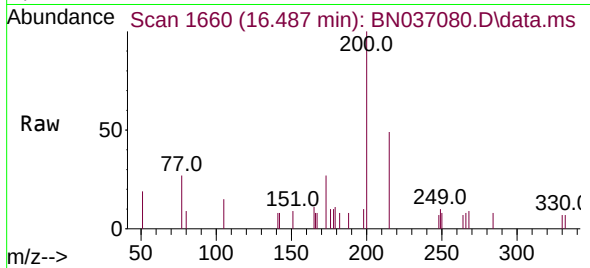




#23
Atrazine
Concen: 0.359 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

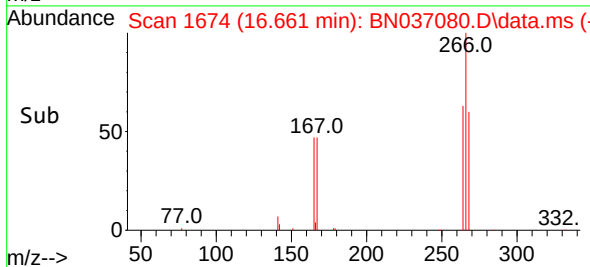
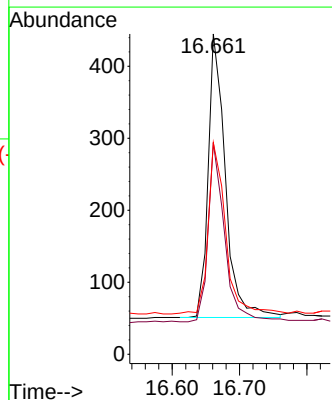
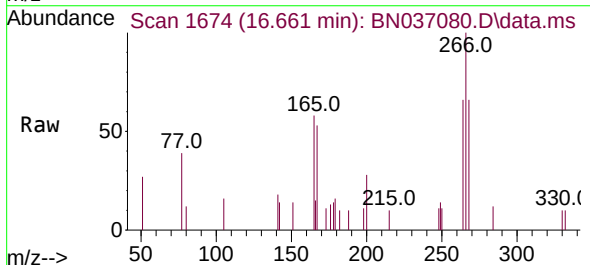
Instrument :
BNA_N
ClientSampleId :
PB168032BS

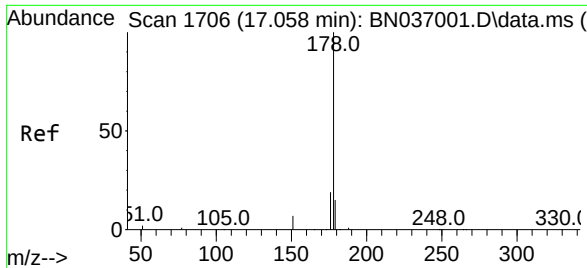
Tgt Ion:200 Resp: 1058
Ion Ratio Lower Upper
200 100
173 27.5 25.2 37.8
215 49.0 39.3 58.9



#24
Pentachlorophenol
Concen: 0.349 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:266 Resp: 697
Ion Ratio Lower Upper
266 100
264 61.3 47.9 71.9
268 61.3 50.0 75.0

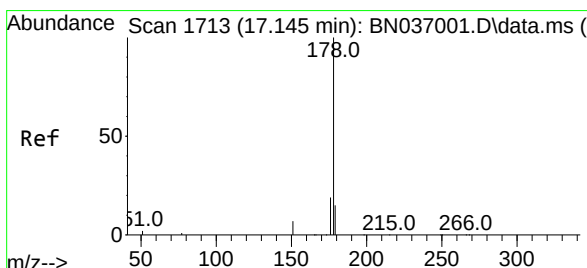
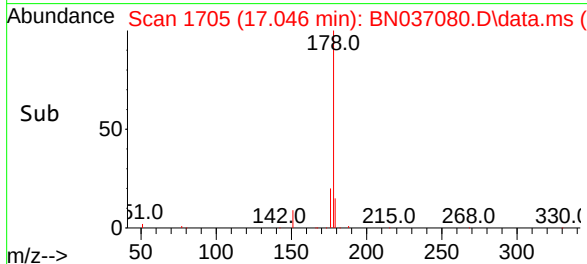
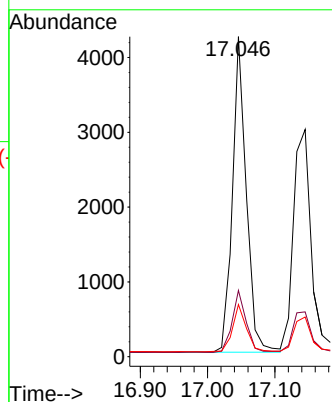
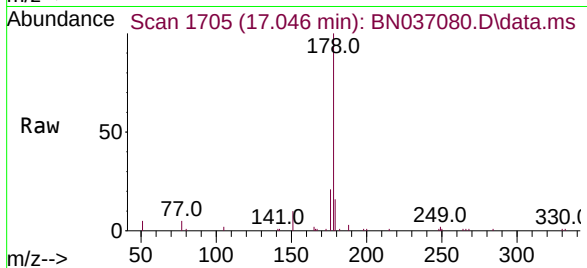




#25
Phenanthrene
Concen: 0.345 ng
RT: 17.046 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

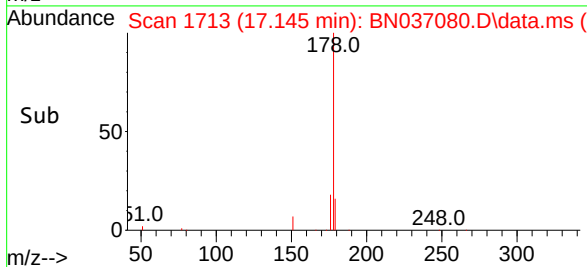
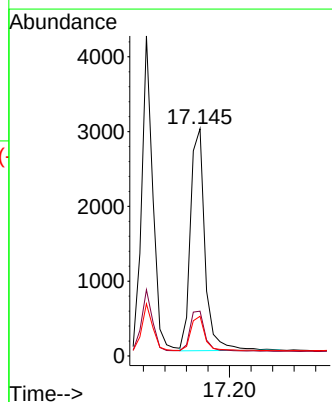
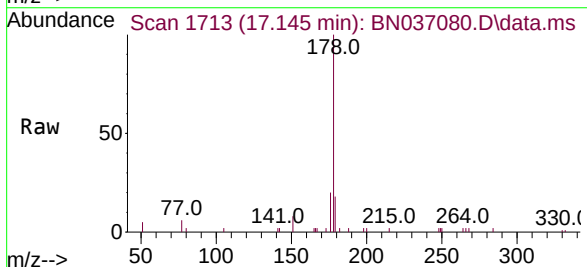
Instrument :
BNA_N
ClientSampleId :
PB168032BS

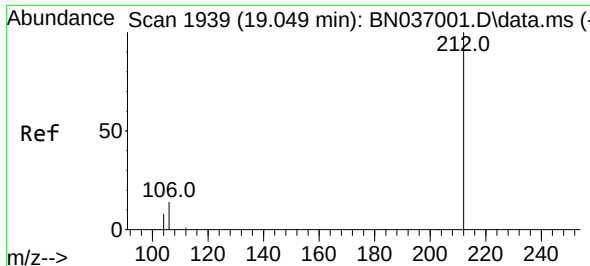
Tgt Ion:178 Resp: 6039
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.0 12.2 18.2



#26
Anthracene
Concen: 0.349 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:178 Resp: 5549
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.325 ng

RT: 19.045 min Scan# 1939

Delta R.T. -0.005 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS

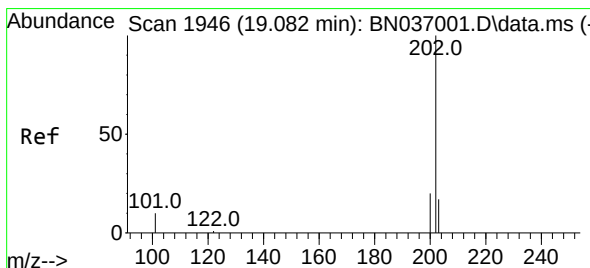
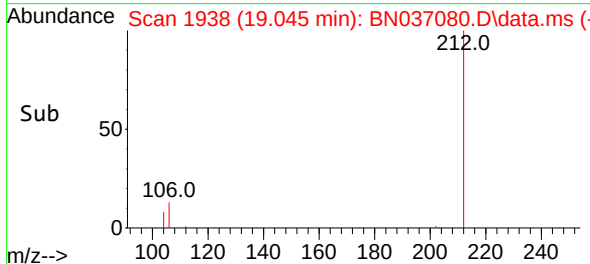
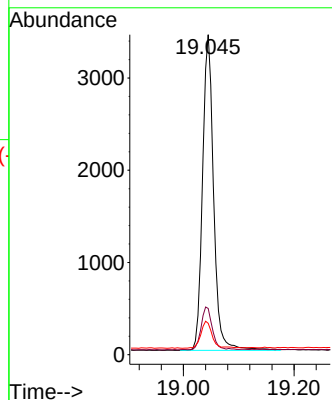
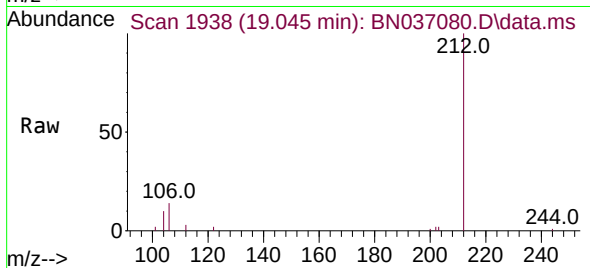
Tgt Ion:212 Resp: 4775

Ion Ratio Lower Upper

212 100

106 13.6 11.3 16.9

104 9.0 6.7 10.1



#28

Fluoranthene

Concen: 0.317 ng

RT: 19.073 min Scan# 1944

Delta R.T. -0.009 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

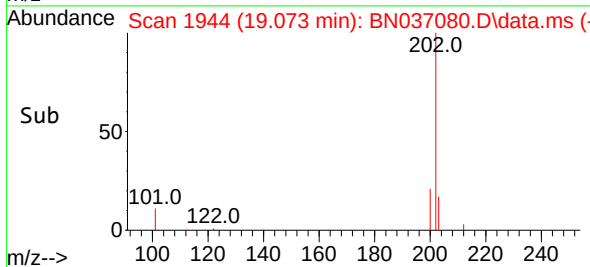
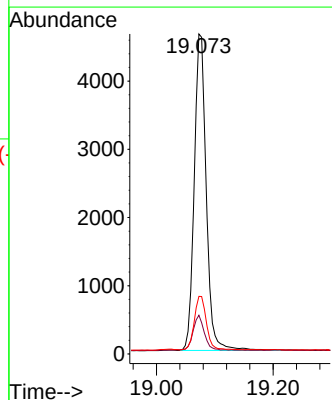
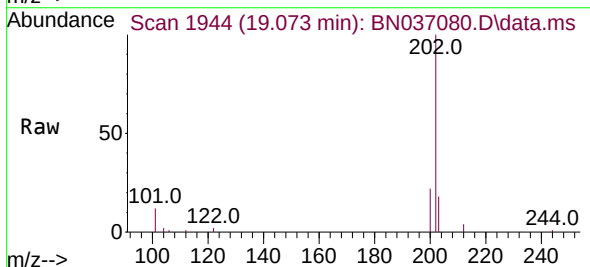
Tgt Ion:202 Resp: 6623

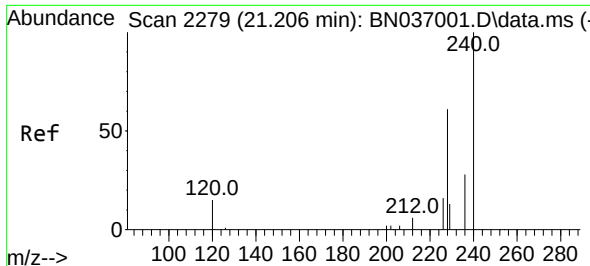
Ion Ratio Lower Upper

202 100

101 10.8 8.9 13.3

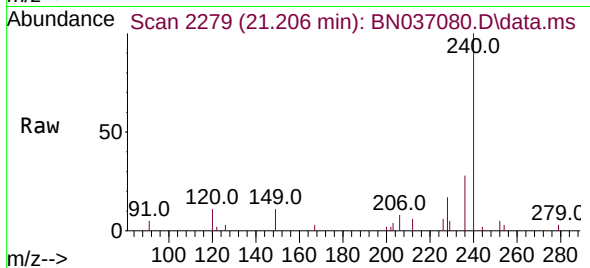
203 17.1 13.8 20.8



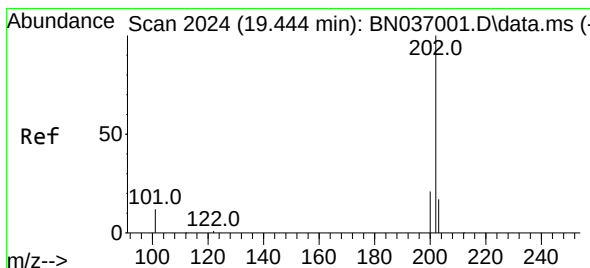
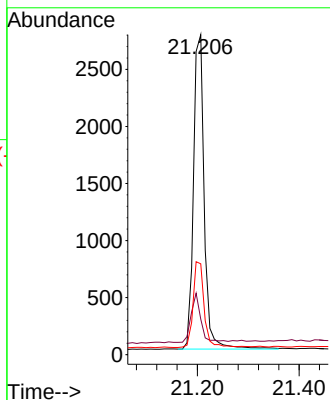
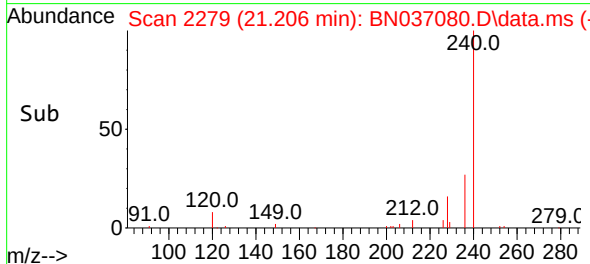


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.206 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

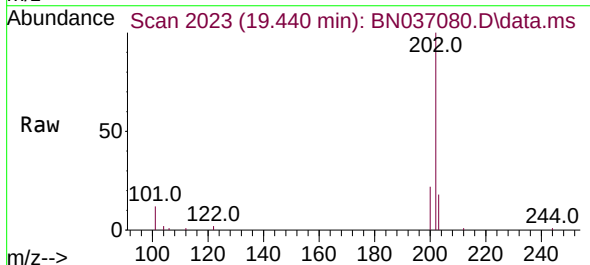
Instrument :
BNA_N
ClientSampleId :
PB168032BS



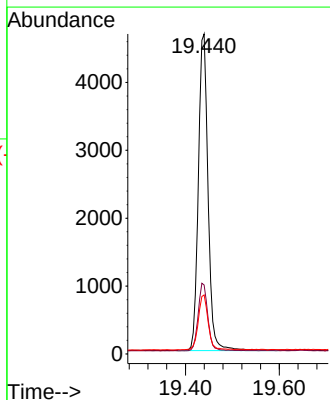
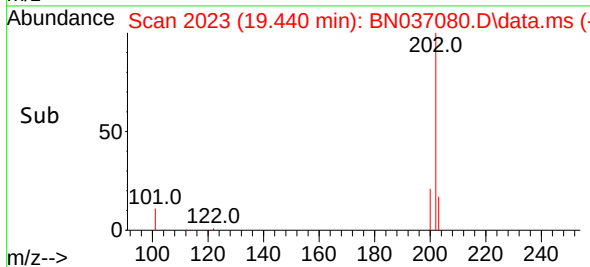
Tgt Ion:240 Resp: 4047
Ion Ratio Lower Upper
240 100
120 11.1 15.1 22.7#
236 28.4 24.0 36.0

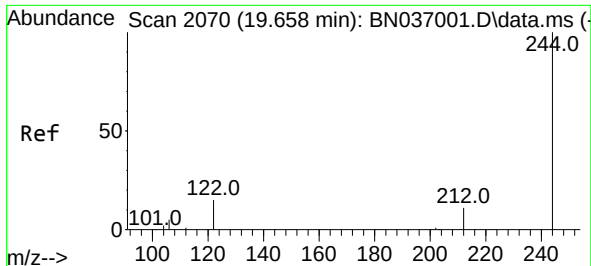


#30
Pyrene
Concen: 0.387 ng
RT: 19.440 min Scan# 2023
Delta R.T. -0.005 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47



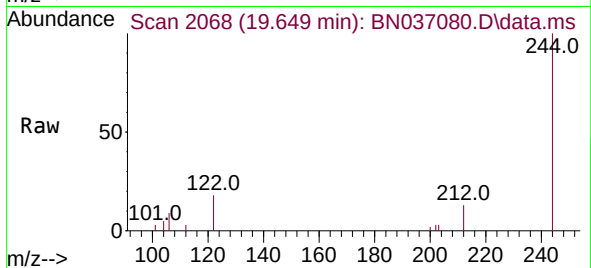
Tgt Ion:202 Resp: 6692
Ion Ratio Lower Upper
202 100
200 21.2 17.1 25.7
203 17.8 14.2 21.4



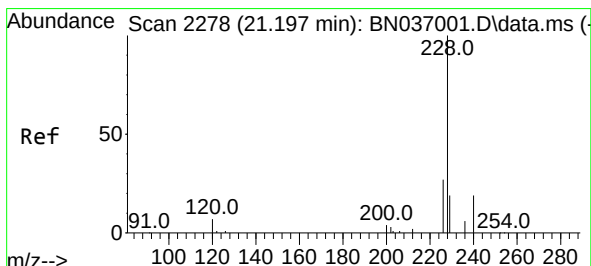
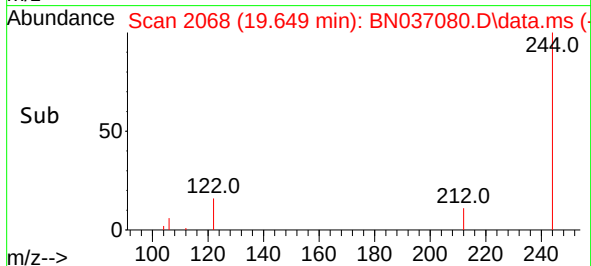
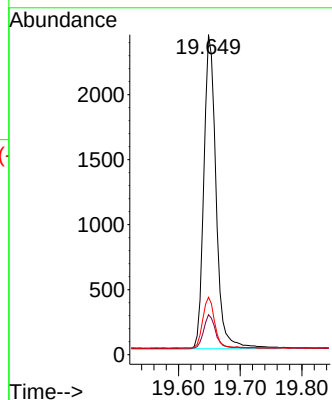


#31
Terphenyl-d14
Concen: 0.386 ng
RT: 19.649 min Scan# 2070
Delta R.T. -0.009 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Instrument :
BNA_N
ClientSampleId :
PB168032BS

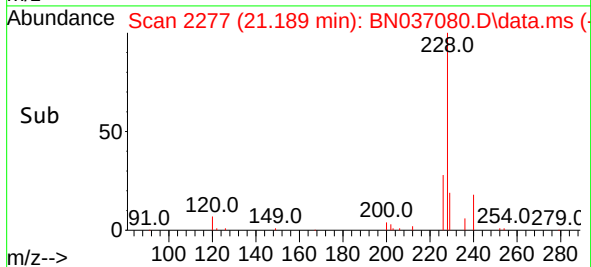
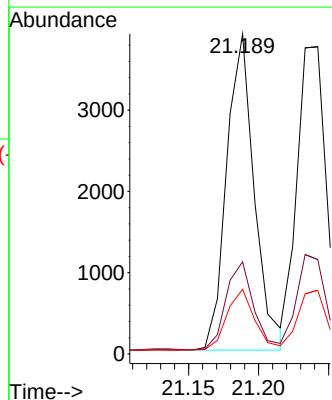
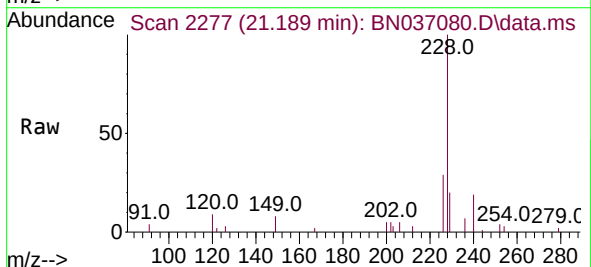


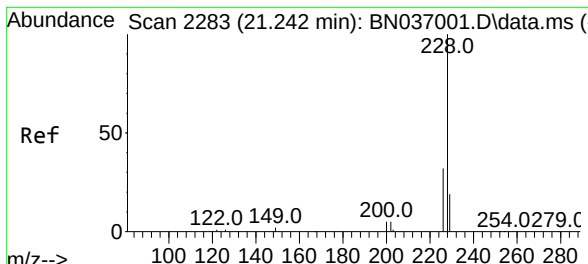
Tgt Ion:244 Resp: 3340
Ion Ratio Lower Upper
244 100
212 12.5 9.7 14.5
122 18.0 13.4 20.0



#32
Benzo(a)anthracene
Concen: 0.352 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:228 Resp: 5361
Ion Ratio Lower Upper
228 100
226 28.8 22.2 33.4
229 20.2 16.0 24.0

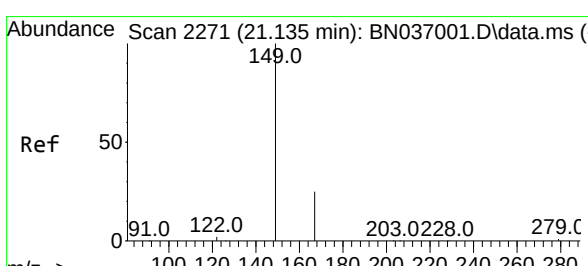
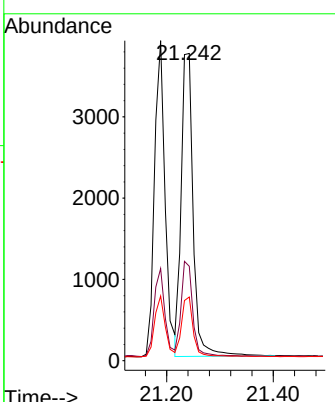
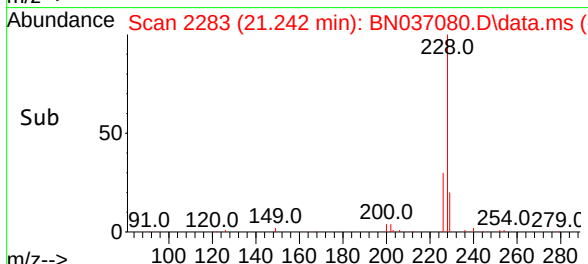
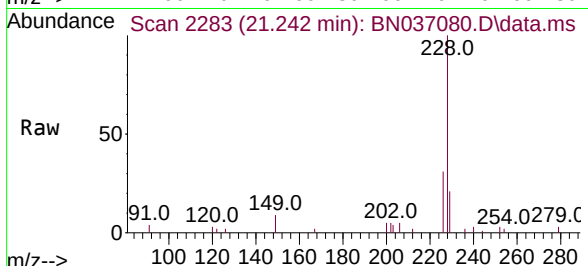




#33
 Chrysene
 Concen: 0.361 ng
 RT: 21.242 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

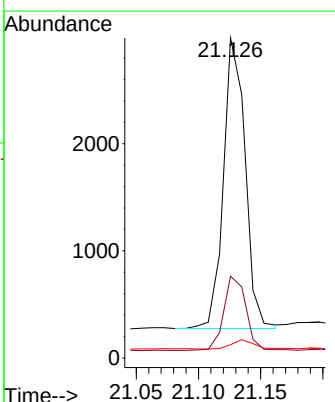
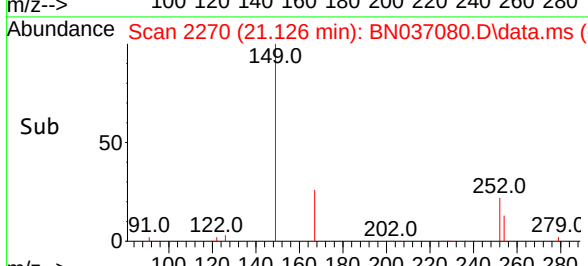
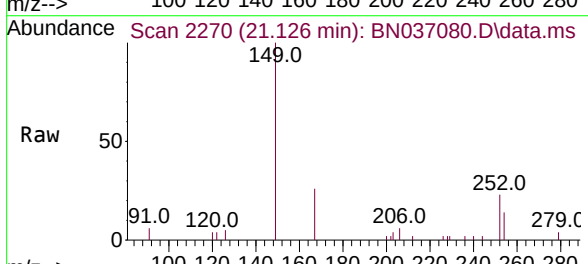
Instrument :
 BNA_N
 ClientSampleId :
 PB168032BS

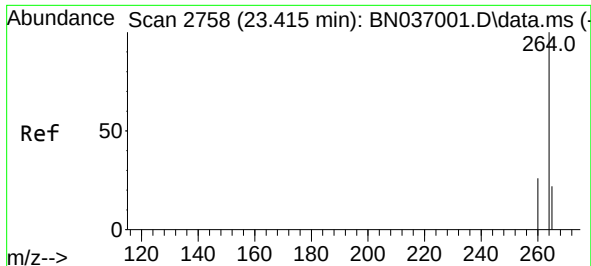
Tgt Ion:	228	Resp:	5814
Ion Ratio	Lower	Upper	
228	100		
226	30.7	26.3	39.5
229	20.7	16.2	24.2



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.350 ng
 RT: 21.126 min Scan# 2270
 Delta R.T. -0.009 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

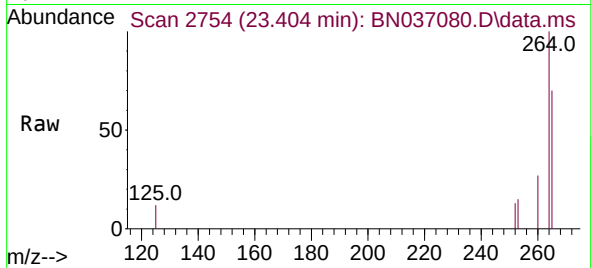
Tgt Ion:	149	Resp:	3282
Ion Ratio	Lower	Upper	
149	100		
167	26.2	20.6	30.8
279	3.4	2.6	3.8



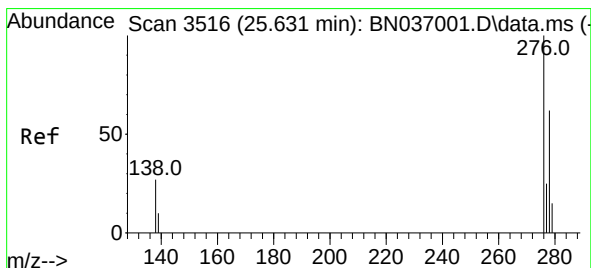
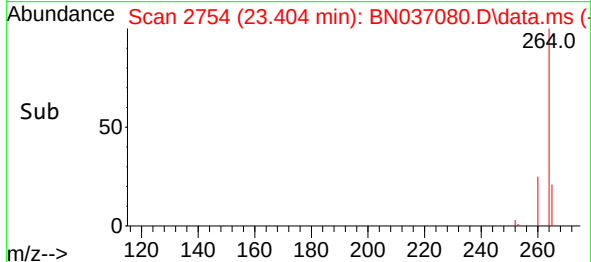
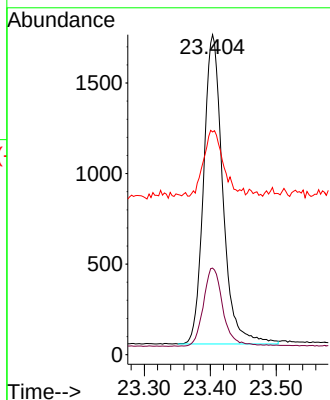


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.404 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BS

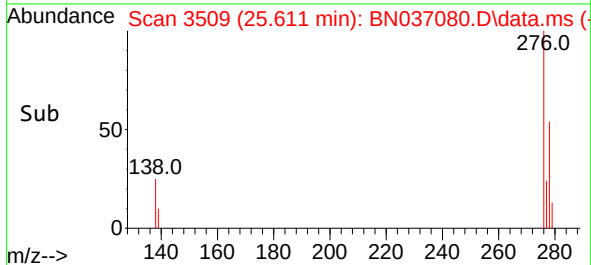
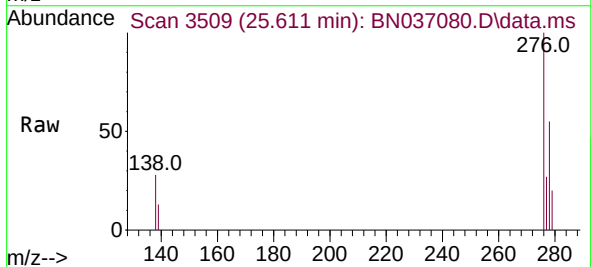
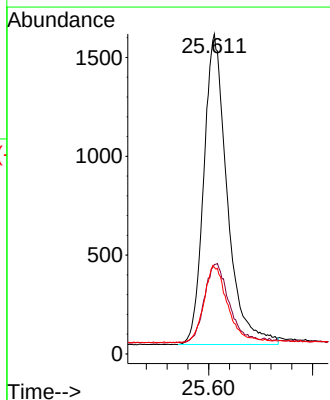


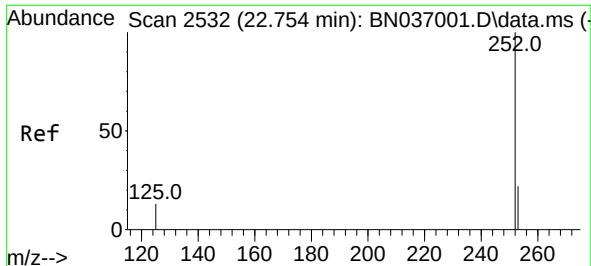
Tgt Ion:264 Resp: 3455
 Ion Ratio Lower Upper
 264 100
 260 27.1 21.9 32.9
 265 69.6 51.6 77.4



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.349 ng
 RT: 25.611 min Scan# 3509
 Delta R.T. -0.020 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

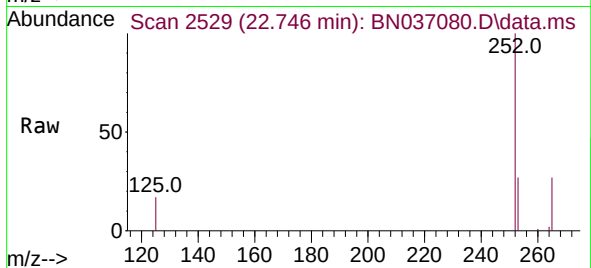
Tgt Ion:276 Resp: 4926
 Ion Ratio Lower Upper
 276 100
 138 26.9 22.7 34.1
 277 24.8 20.0 30.0



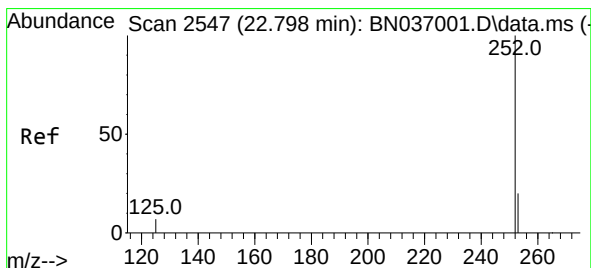
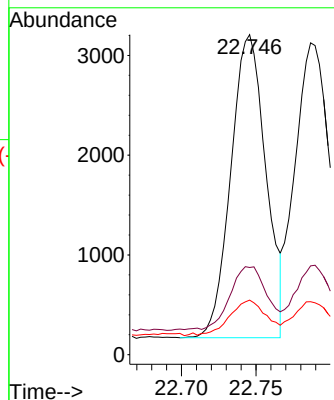


#37
Benzo(b)fluoranthene
Concen: 0.346 ng
RT: 22.746 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Instrument :
BNA_N
ClientSampleId :
PB168032BS

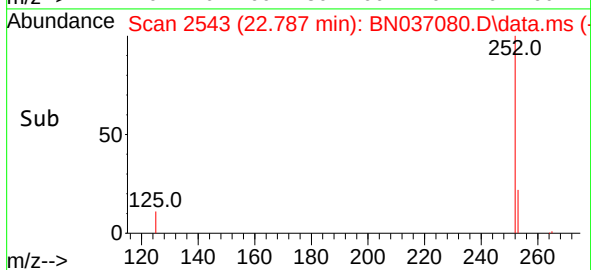
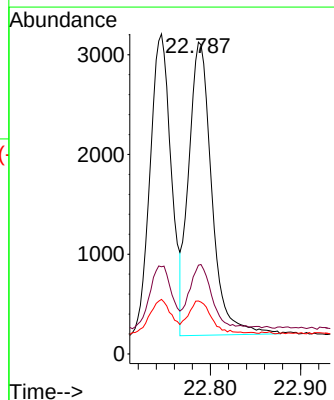
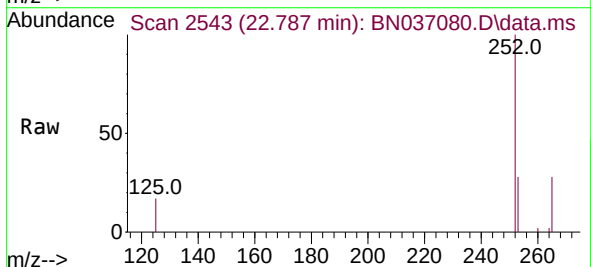


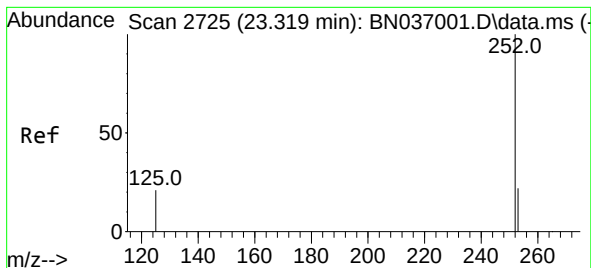
Tgt Ion:252 Resp: 4963
Ion Ratio Lower Upper
252 100
253 27.3 21.8 32.6
125 17.1 14.6 21.8



#38
Benzo(k)fluoranthene
Concen: 0.368 ng
RT: 22.787 min Scan# 2543
Delta R.T. -0.012 min
Lab File: BN037080.D
Acq: 20 May 2025 18:47

Tgt Ion:252 Resp: 5215
Ion Ratio Lower Upper
252 100
253 28.5 21.4 32.2
125 17.0 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.357 ng

RT: 23.307 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

Instrument :

BNA_N

ClientSampleId :

PB168032BS

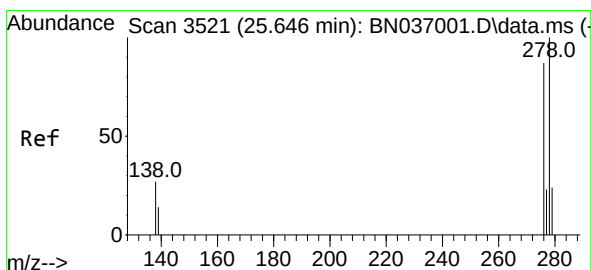
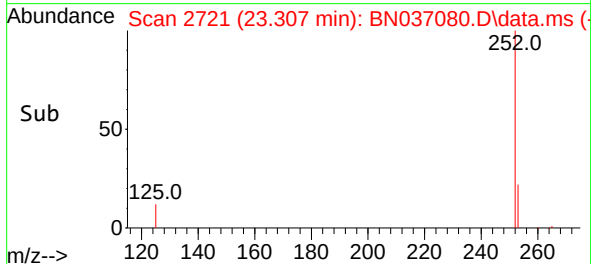
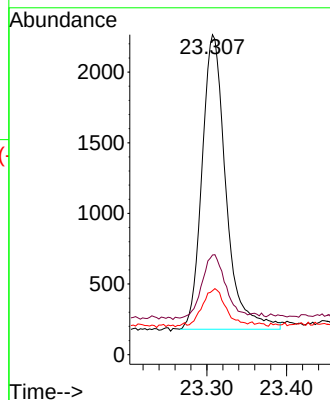
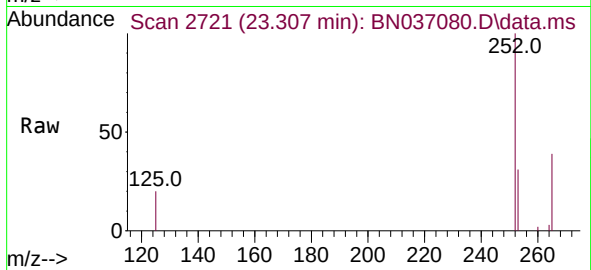
Tgt Ion:252 Resp: 4345

Ion Ratio Lower Upper

252 100

253 31.2 23.8 35.6

125 20.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.350 ng

RT: 25.628 min Scan# 3515

Delta R.T. -0.018 min

Lab File: BN037080.D

Acq: 20 May 2025 18:47

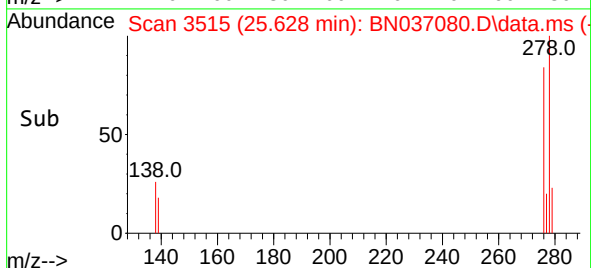
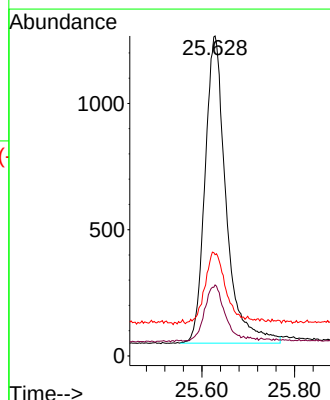
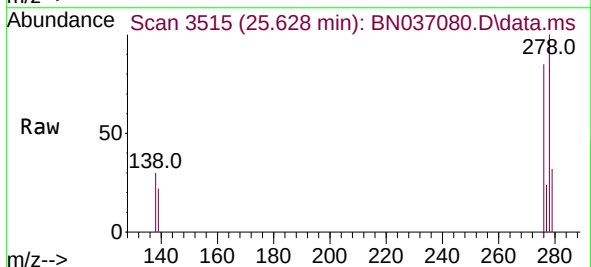
Tgt Ion:278 Resp: 3843

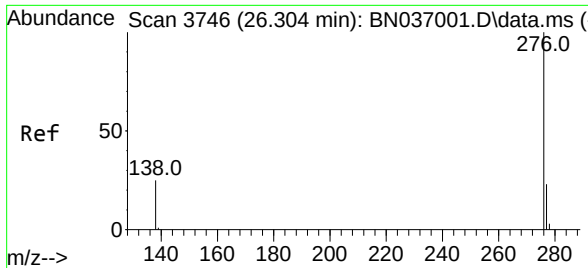
Ion Ratio Lower Upper

278 100

139 22.2 17.4 26.0

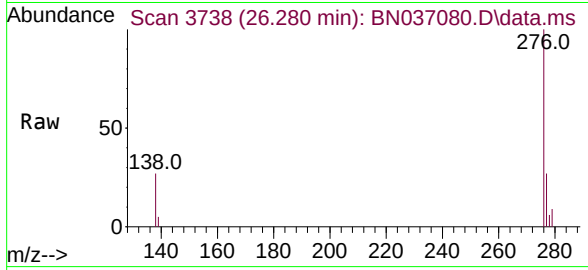
279 31.6 24.6 37.0



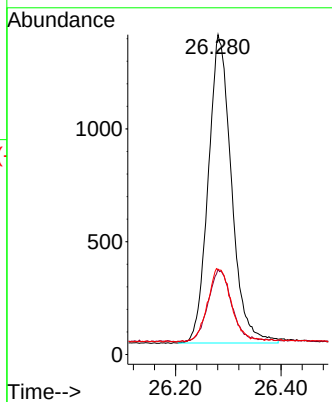
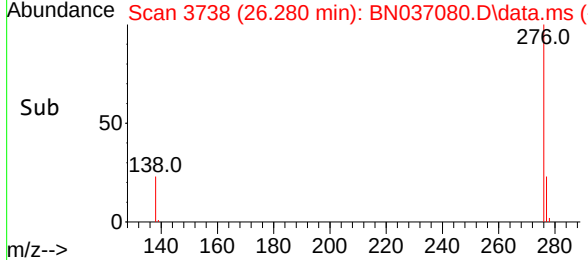


#41
 Benzo(g,h,i)perylene
 Concen: 0.350 ng
 RT: 26.280 min Scan# 31
 Delta R.T. -0.023 min
 Lab File: BN037080.D
 Acq: 20 May 2025 18:47

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BS



Tgt Ion:	276	Resp:	4175
Ion	Ratio	Lower	Upper
276	100		
277	26.7	20.2	30.4
138	26.5	22.0	33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
 Data File : BN037081.D
 Acq On : 20 May 2025 19:23
 Operator : RC/JU
 Sample : PB168032BSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BSD

Quant Time: May 21 01:39:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

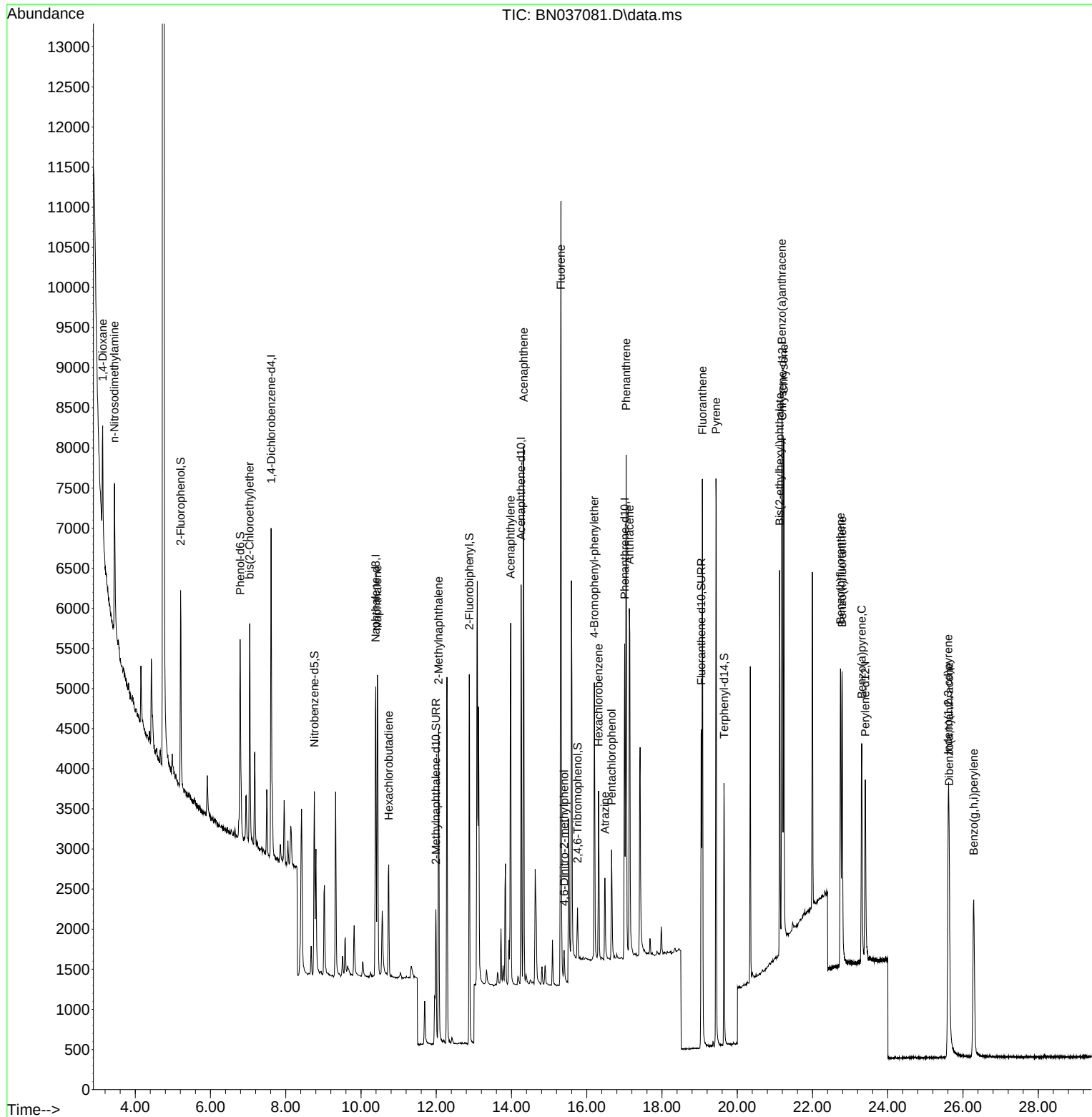
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	1841	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	4693	0.400	ng	-0.01
13) Acenaphthene-d10	14.256	164	2613	0.400	ng	-0.01
19) Phenanthrene-d10	17.009	188	5111	0.400	ng	# 0.00
29) Chrysene-d12	21.198	240	3649	0.400	ng	0.00
35) Perylene-d12	23.401	264	3038	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1702	0.353	ng	0.00
5) Phenol-d6	6.788	99	2053	0.340	ng	0.00
8) Nitrobenzene-d5	8.760	82	1797	0.352	ng	-0.01
11) 2-Methylnaphthalene-d10	11.991	152	3391	0.513	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	349	0.304	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	3964	0.331	ng	-0.01
27) Fluoranthene-d10	19.045	212	4622	0.330	ng	0.00
31) Terphenyl-d14	19.649	244	3241	0.415	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.133	88	718	0.318	ng	# 36
3) n-Nitrosodimethylamine	3.444	42	1767	0.364	ng	# 91
6) bis(2-Chloroethyl)ether	7.040	93	1893	0.341	ng	98
9) Naphthalene	10.436	128	4817	0.347	ng	99
10) Hexachlorobutadiene	10.735	225	1123	0.386	ng	# 98
12) 2-Methylnaphthalene	12.062	142	2818	0.316	ng	98
16) Acenaphthylene	13.978	152	4821	0.379	ng	99
17) Acenaphthene	14.320	154	2919	0.351	ng	99
18) Fluorene	15.314	166	3919	0.359	ng	98
20) 4,6-Dinitro-2-methylph...	15.400	198	332	0.342	ng	84
21) 4-Bromophenyl-phenylether	16.202	248	1183	0.366	ng	# 76
22) Hexachlorobenzene	16.313	284	1362	0.394	ng	99
23) Atrazine	16.487	200	1040	0.369	ng	98
24) Pentachlorophenol	16.661	266	701	0.368	ng	98
25) Phenanthrene	17.046	178	6008	0.360	ng	99
26) Anthracene	17.133	178	5559	0.366	ng	99
28) Fluoranthene	19.073	202	6397	0.321	ng	99
30) Pyrene	19.435	202	6454	0.413	ng	100
32) Benzo(a)anthracene	21.189	228	5118	0.373	ng	99
33) Chrysene	21.233	228	5414	0.373	ng	98
34) Bis(2-ethylhexyl)phtha...	21.126	149	3090	0.365	ng	100
36) Indeno(1,2,3-cd)pyrene	25.608	276	4724	0.381	ng	# 83
37) Benzo(b)fluoranthene	22.743	252	4650	0.369	ng	97
38) Benzo(k)fluoranthene	22.787	252	4818	0.387	ng	98
39) Benzo(a)pyrene	23.307	252	4113	0.385	ng	# 92
40) Dibenzo(a,h)anthracene	25.631	278	3637	0.376	ng	98
41) Benzo(g,h,i)perylene	26.286	276	4012	0.382	ng	98

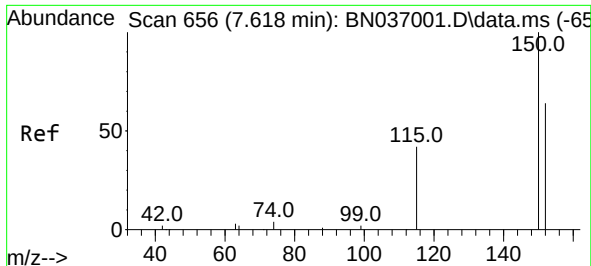
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN052125\
Data File : BN037081.D
Acq On : 20 May 2025 19:23
Operator : RC/JU
Sample : PB168032BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168032BSD

Quant Time: May 21 01:39:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration

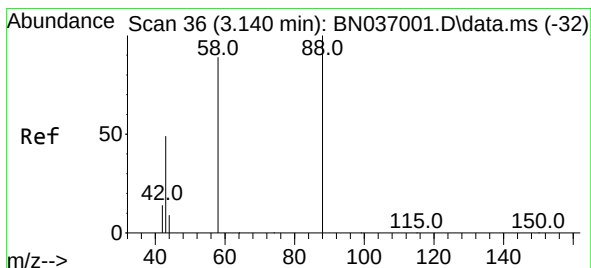
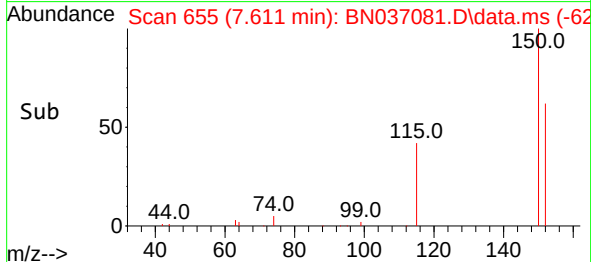
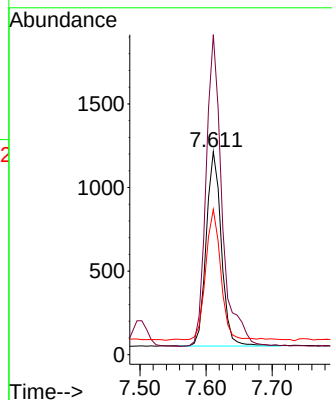
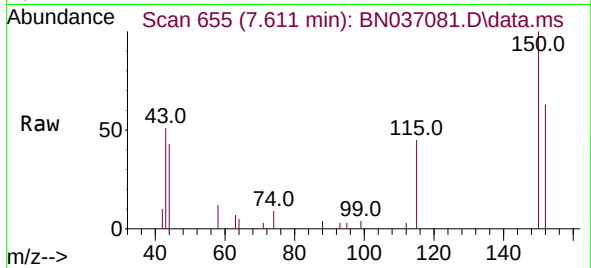




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

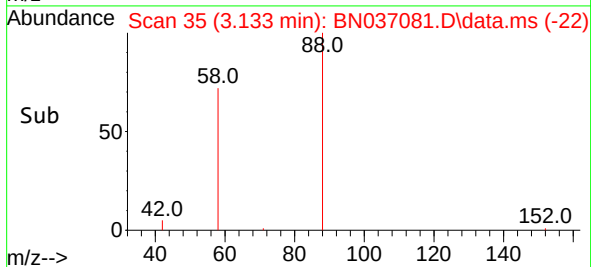
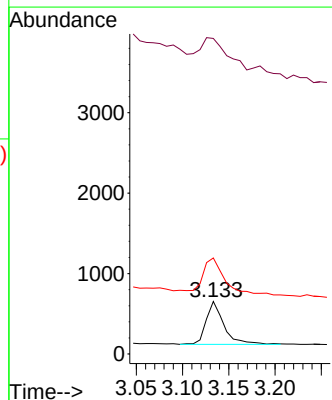
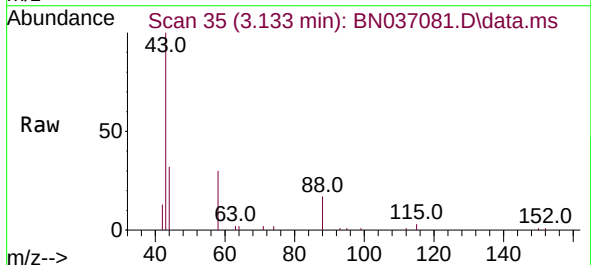
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

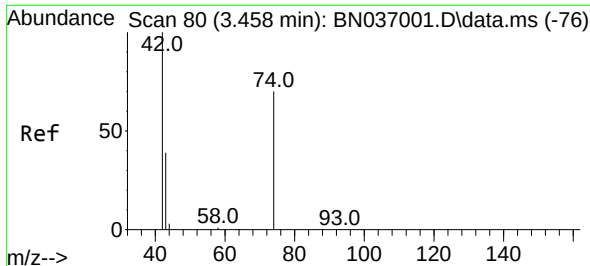
Tgt Ion:152 Resp: 1841
Ion Ratio Lower Upper
152 100
150 157.5 123.9 185.9
115 71.5 55.8 83.8



#2
1,4-Dioxane
Concen: 0.318 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion: 88 Resp: 718
Ion Ratio Lower Upper
88 100
43 142.1 37.4 56.0#
58 105.3 68.8 103.2#

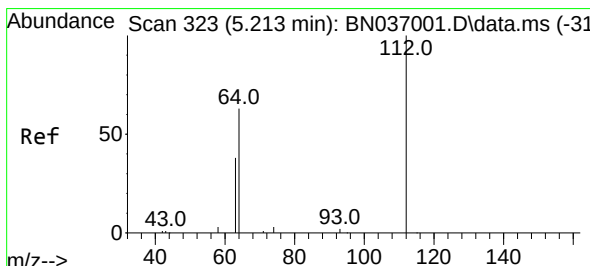
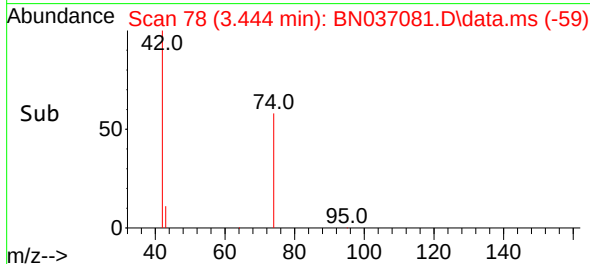
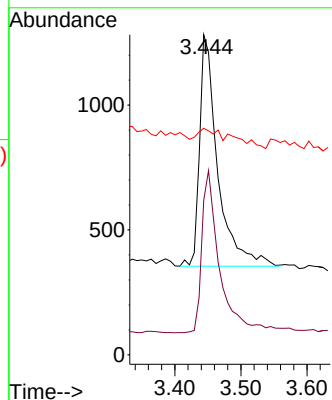
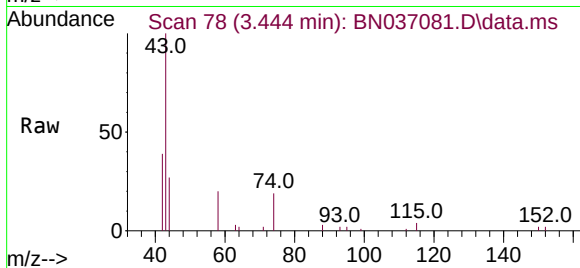




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.444 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

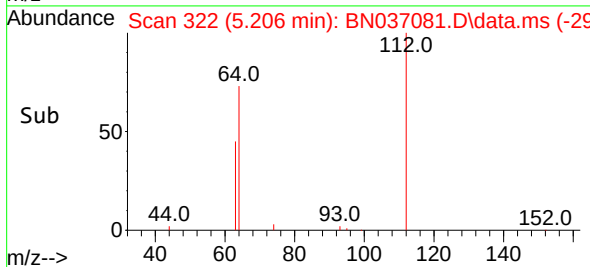
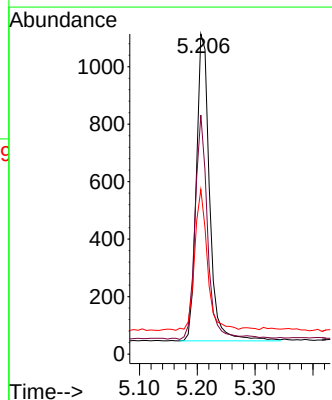
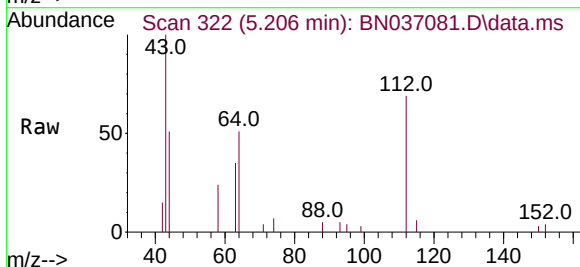
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

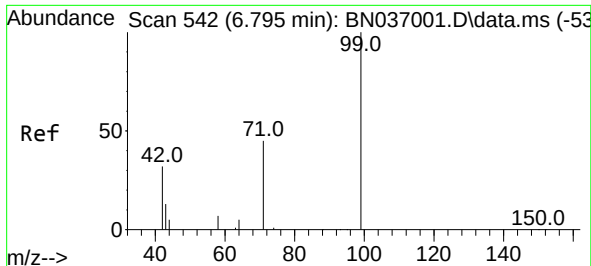
Tgt Ion: 42 Resp: 1767
Ion Ratio Lower Upper
42 100
74 69.3 59.8 89.6
44 5.0 11.9 17.9#



#4
2-Fluorophenol
Concen: 0.353 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion: 112 Resp: 1702
Ion Ratio Lower Upper
112 100
64 68.6 55.7 83.5
63 43.6 34.6 51.8

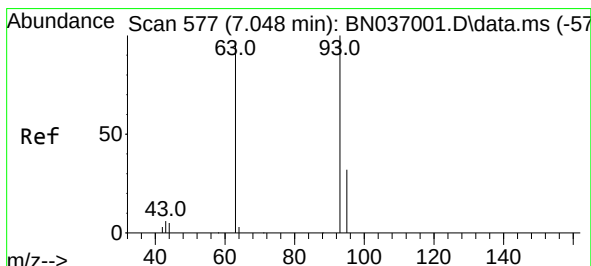
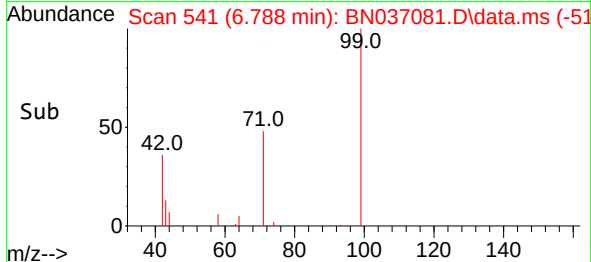
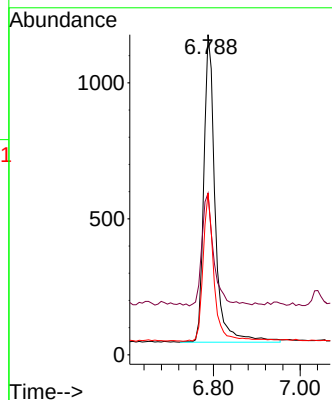
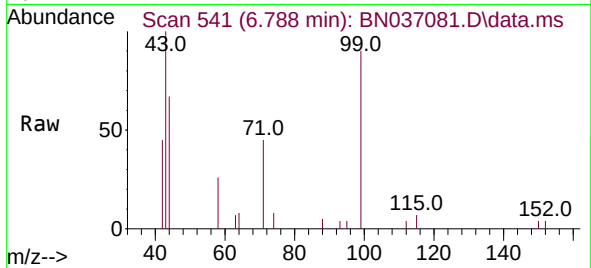




#5
Phenol-d6
Concen: 0.340 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

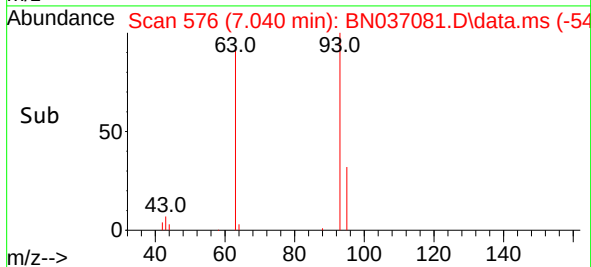
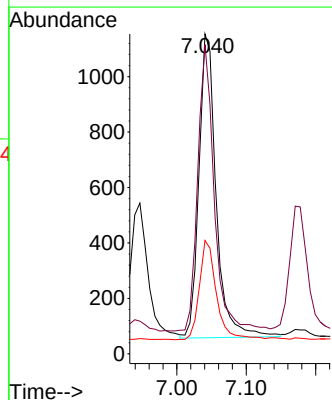
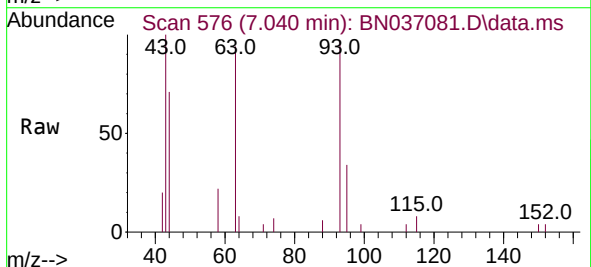
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

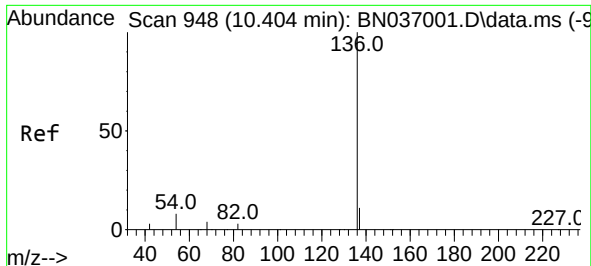
Tgt Ion: 99 Resp: 2053
Ion Ratio Lower Upper
99 100
42 38.7 29.3 43.9
71 45.7 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.341 ng
RT: 7.040 min Scan# 576
Delta R.T. -0.007 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion: 93 Resp: 1893
Ion Ratio Lower Upper
93 100
63 89.8 70.1 105.1
95 32.4 26.2 39.2

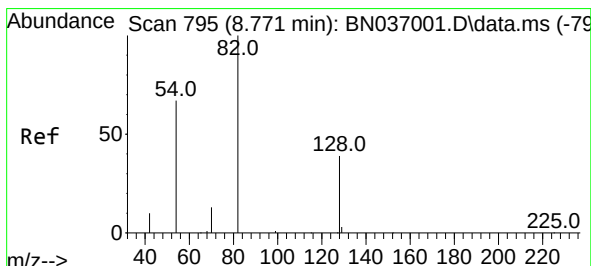
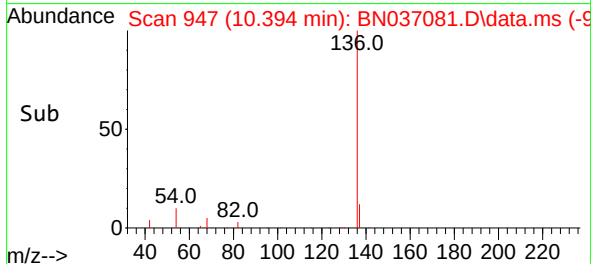
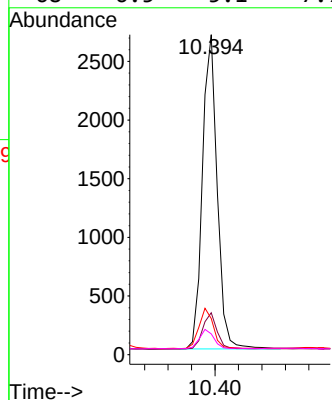
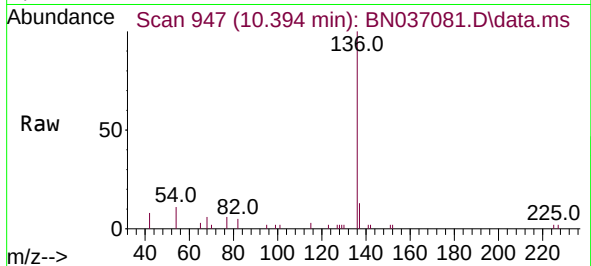




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

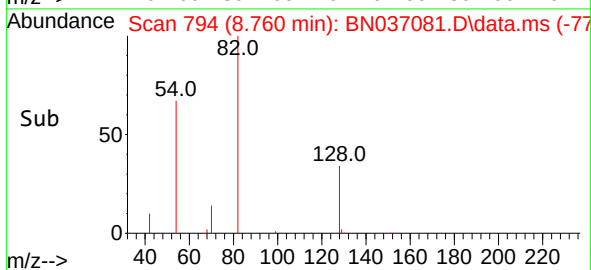
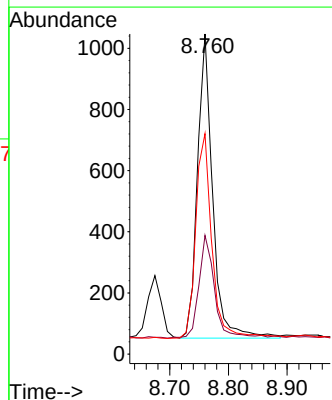
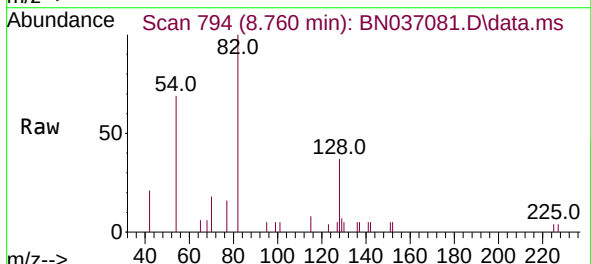
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

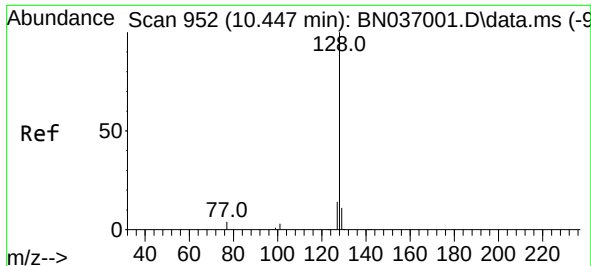
Tgt Ion:136	Resp:	4693
Ion Ratio	Lower	Upper
136	100	
137	13.1	10.4 15.6
54	11.3	8.5 12.7
68	6.5	5.1 7.7



#8
Nitrobenzene-d5
Concen: 0.352 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion: 82	Resp:	1797
Ion Ratio	Lower	Upper
82	100	
128	37.1	34.0 51.0
54	68.9	55.0 82.4

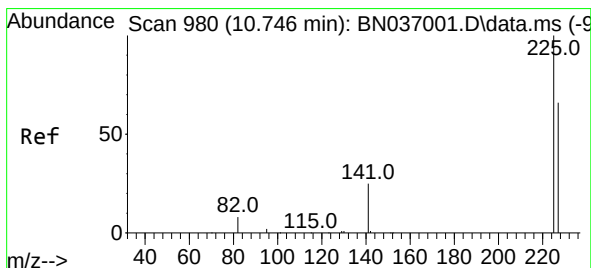
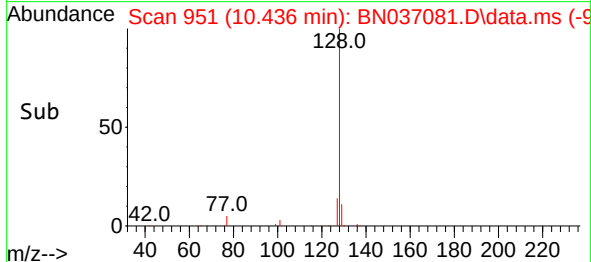
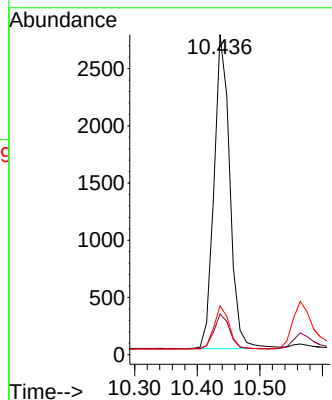
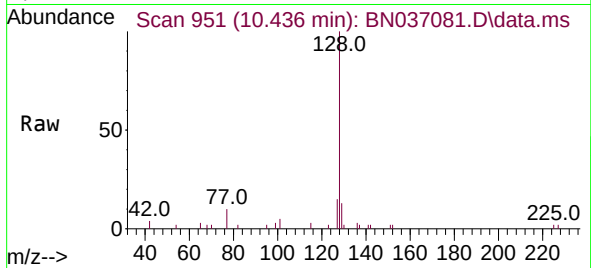




#9
Naphthalene
Concen: 0.347 ng
RT: 10.436 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

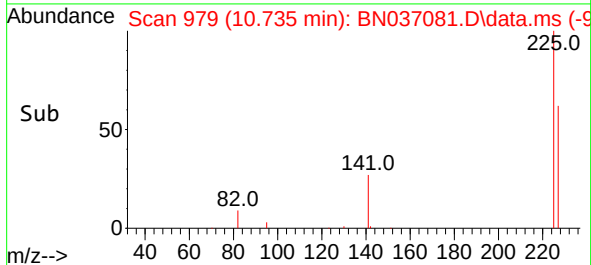
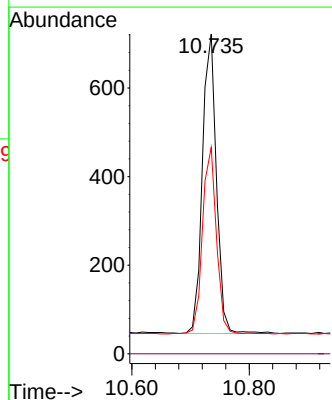
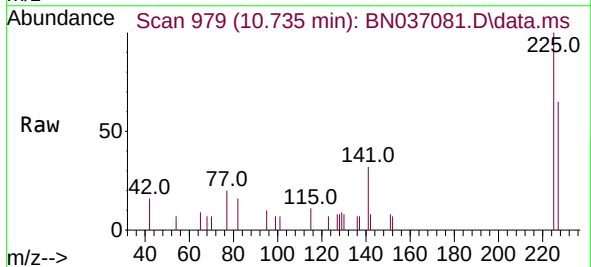
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

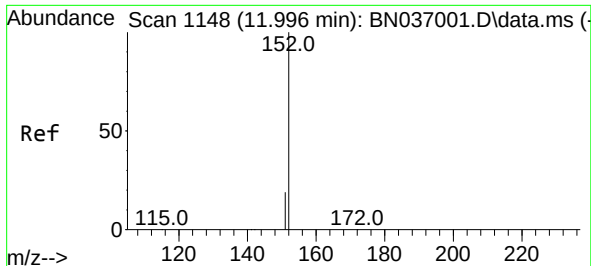
Tgt Ion:128 Resp: 4817
Ion Ratio Lower Upper
128 100
129 12.7 9.7 14.5
127 15.2 12.4 18.6



#10
Hexachlorobutadiene
Concen: 0.386 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:225 Resp: 1123
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.2 50.9 76.3

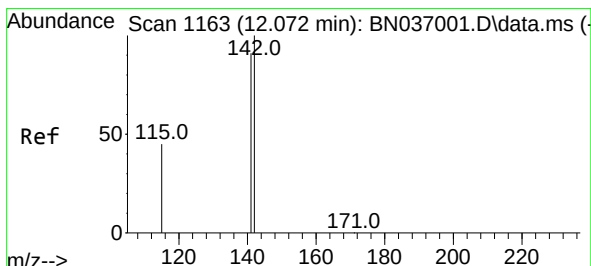
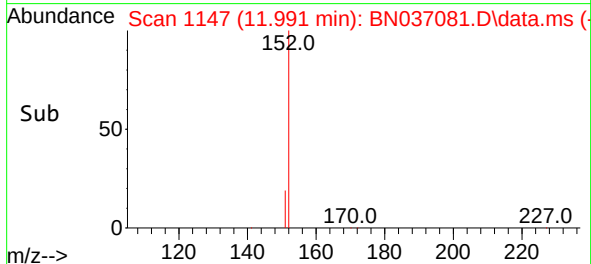
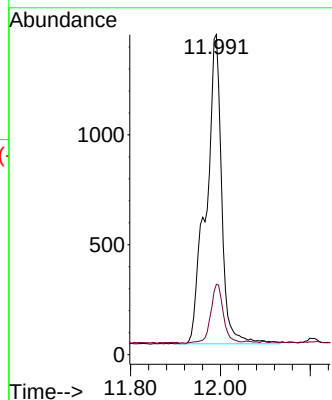
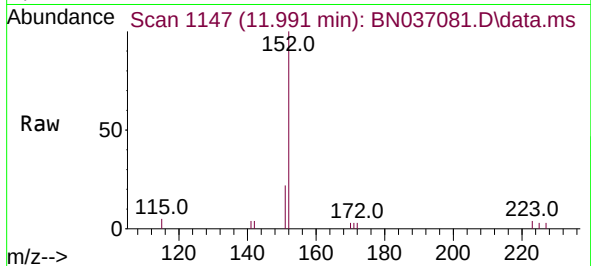




#11
2-Methylnaphthalene-d10
Concen: 0.513 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

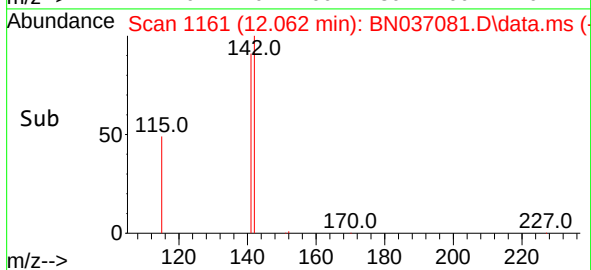
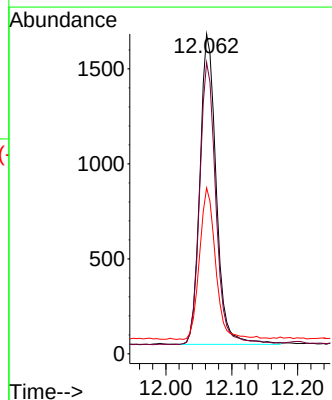
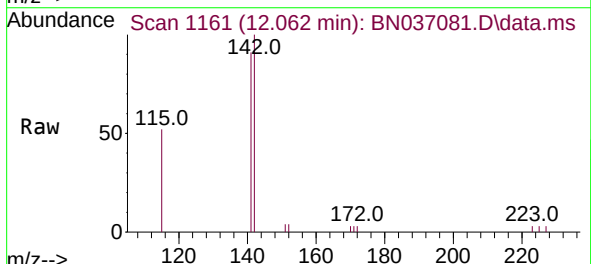
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

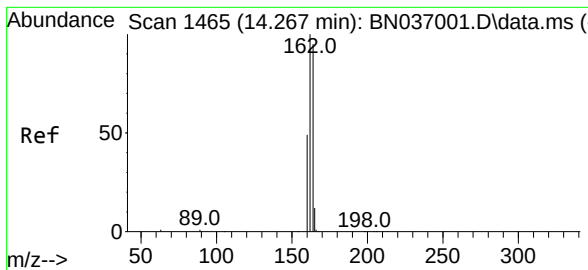
Tgt Ion:152 Resp: 3391
Ion Ratio Lower Upper
152 100
151 15.4 17.5 26.3#



#12
2-Methylnaphthalene
Concen: 0.316 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:142 Resp: 2818
Ion Ratio Lower Upper
142 100
141 91.1 73.3 109.9
115 51.9 38.4 57.6

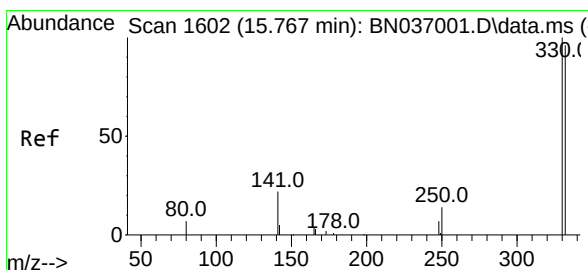
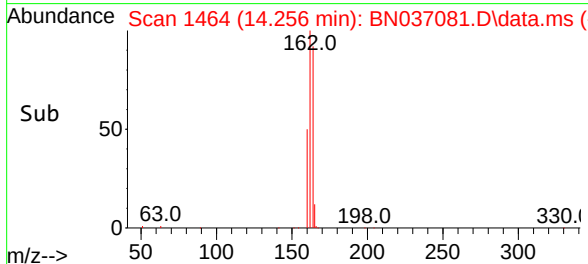
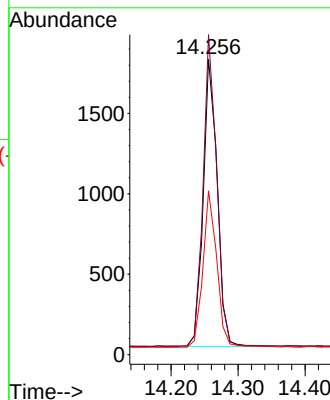
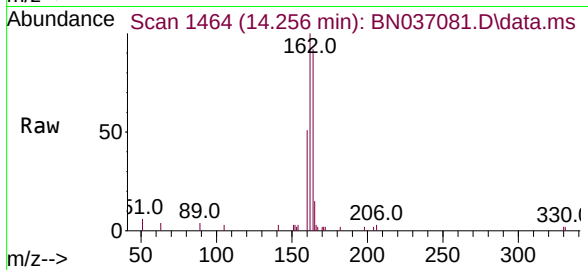




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.256 min Scan# 1464
 Delta R.T. -0.011 min
 Lab File: BN037081.D
 Acq: 20 May 2025 19:23

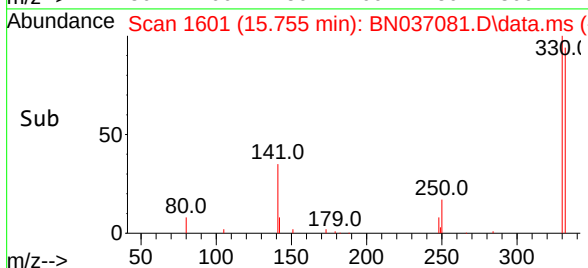
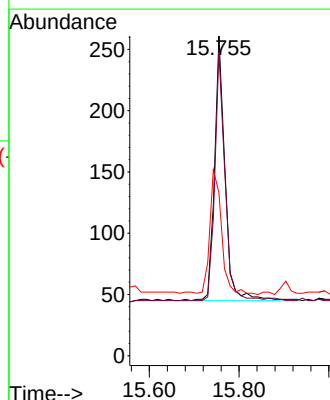
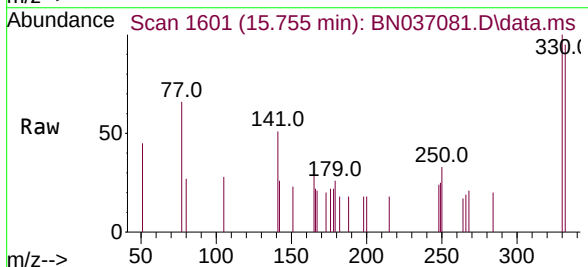
Instrument :
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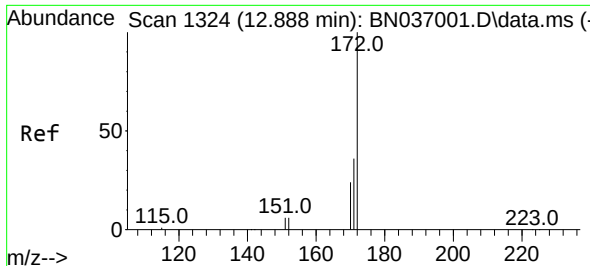
Tgt Ion:	164	Resp:	2613
Ion	Ratio	Lower	Upper
164	100		
162	108.3	84.2	126.4
160	55.4	42.6	63.8



#14
 2,4,6-Tribromophenol
 Concen: 0.304 ng
 RT: 15.755 min Scan# 1601
 Delta R.T. -0.012 min
 Lab File: BN037081.D
 Acq: 20 May 2025 19:23

Tgt Ion:	330	Resp:	349
Ion	Ratio	Lower	Upper
330	100		
332	90.5	73.8	110.8
141	53.0	43.9	65.9

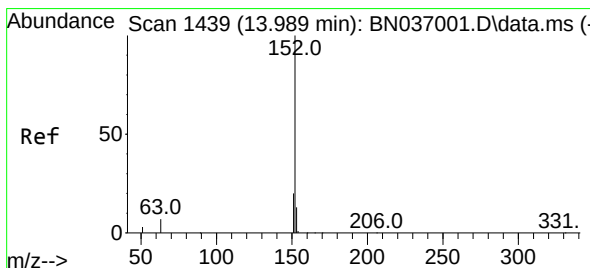
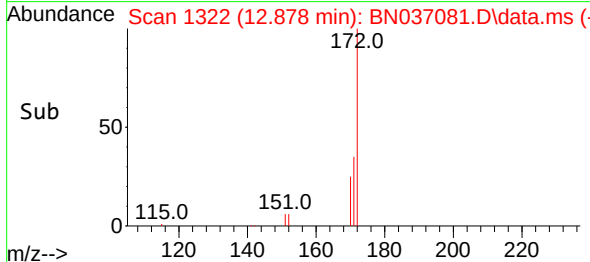
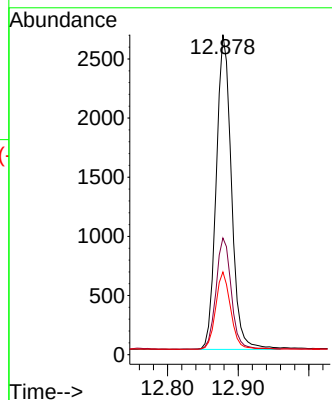
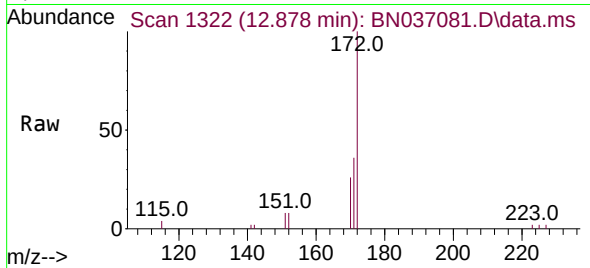




#15
2-Fluorobiphenyl
Concen: 0.331 ng
RT: 12.878 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

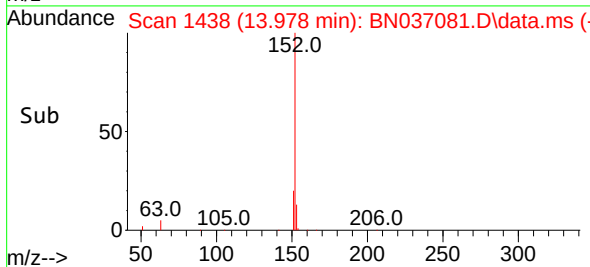
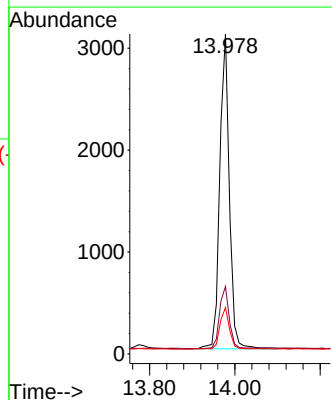
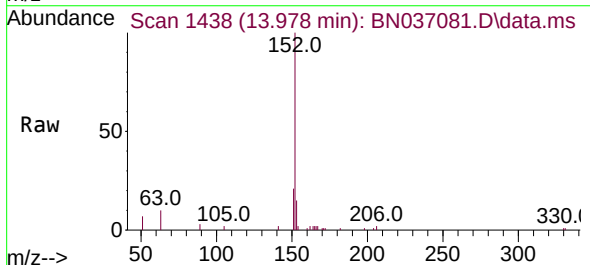
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

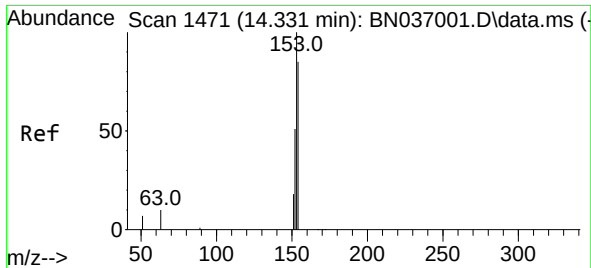
Tgt Ion:	172	Resp:	3964
Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	25.8	20.5	30.7



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:	152	Resp:	4821
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.6	10.5	15.7

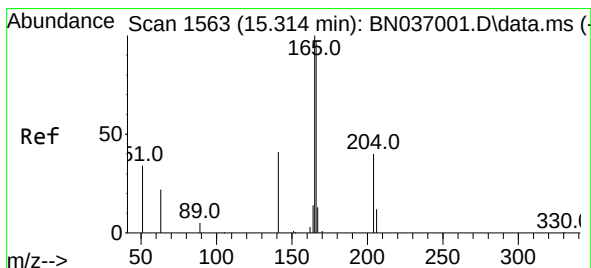
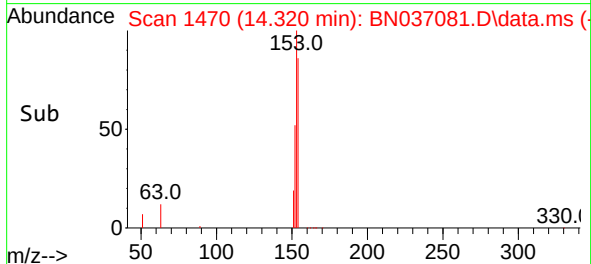
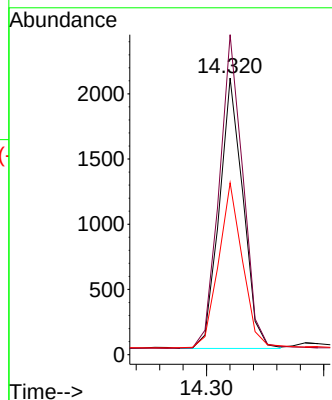
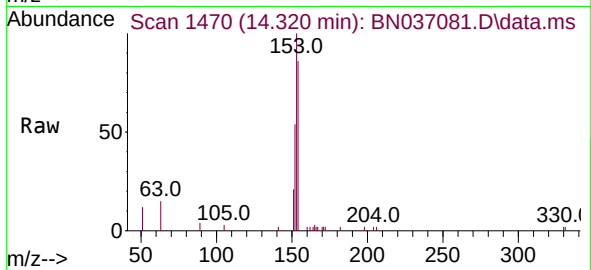




#17
Acenaphthene
Concen: 0.351 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

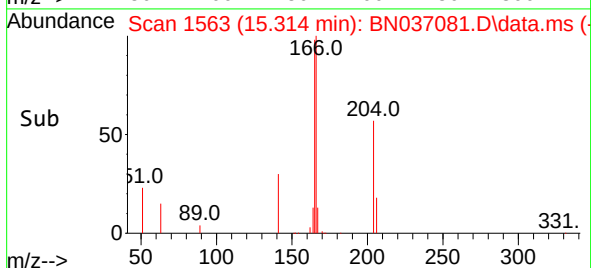
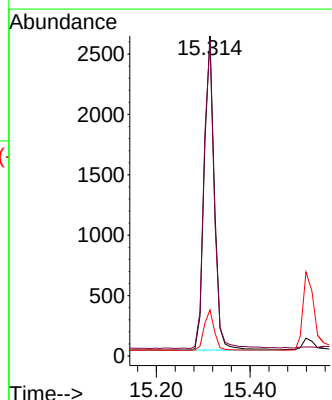
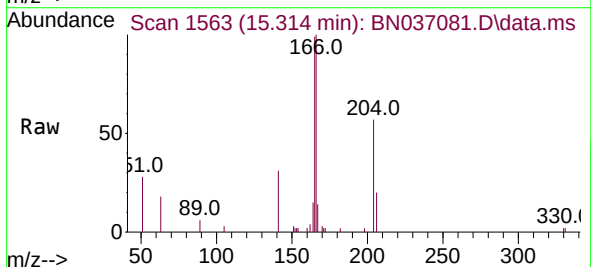
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

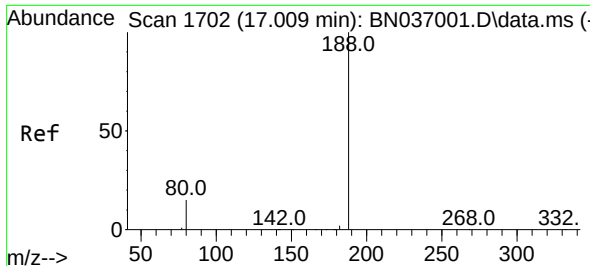
Tgt Ion:154 Resp: 2919
Ion Ratio Lower Upper
154 100
153 116.8 94.2 141.4
152 62.4 49.4 74.0



#18
Fluorene
Concen: 0.359 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:166 Resp: 3919
Ion Ratio Lower Upper
166 100
165 98.9 80.6 120.8
167 12.9 10.6 16.0

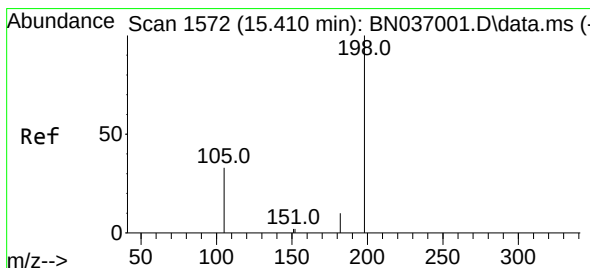
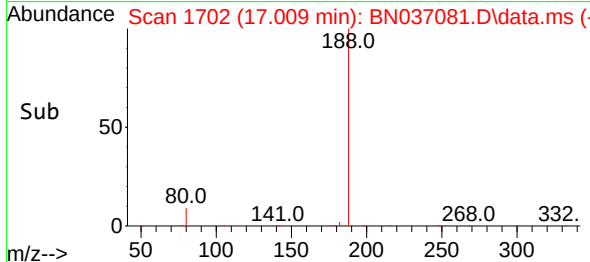
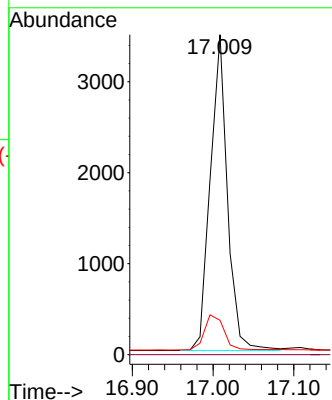
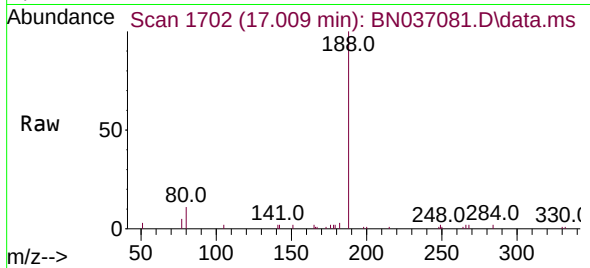




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

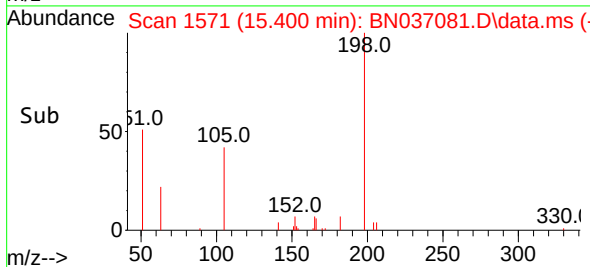
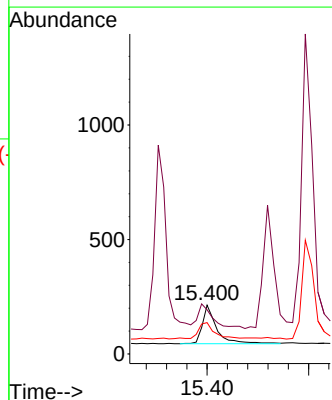
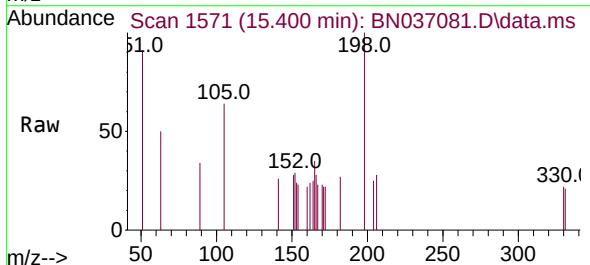
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

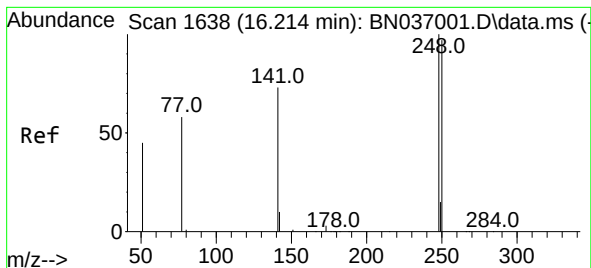
Tgt Ion:188 Resp: 5111
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.7 13.4 20.0#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.342 ng
RT: 15.400 min Scan# 1571
Delta R.T. -0.010 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

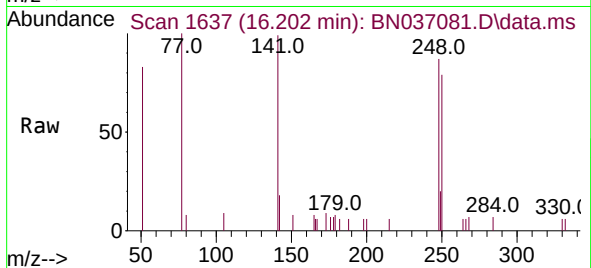
Tgt Ion:198 Resp: 332
Ion Ratio Lower Upper
198 100
51 90.6 87.8 131.6
105 64.3 44.2 66.4



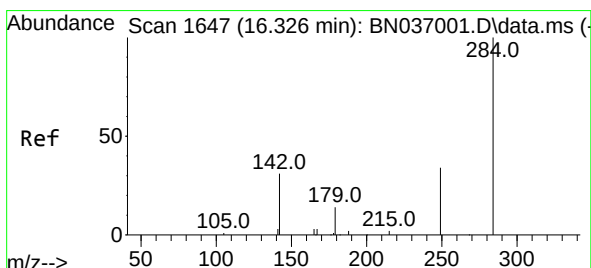
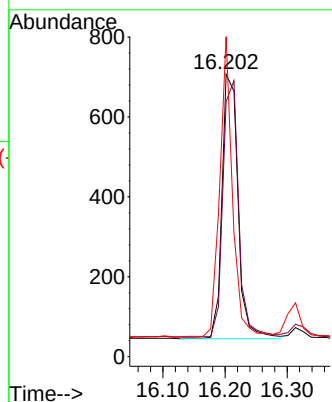
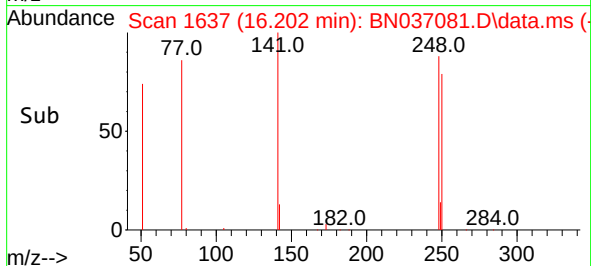


#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.202 min Scan# 1637
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

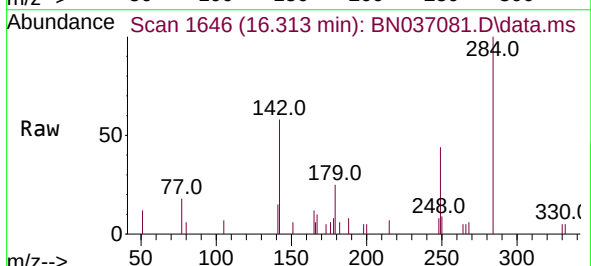
Instrument :
BNA_N
ClientSampleId :
PB168032BSD



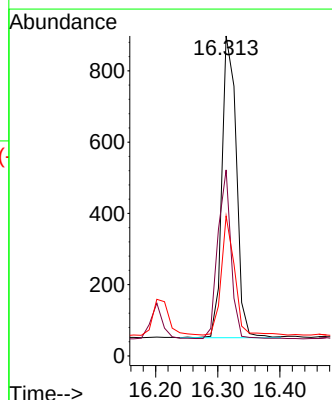
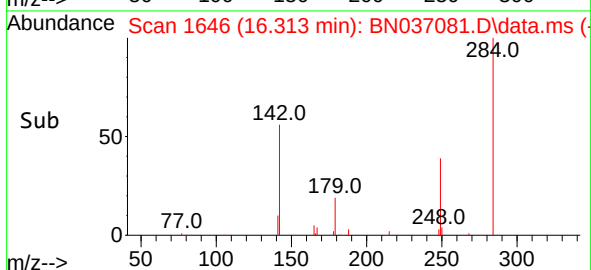
Tgt Ion:248 Resp: 1183
Ion Ratio Lower Upper
248 100
250 90.4 78.1 117.1
141 113.3 59.7 89.5#

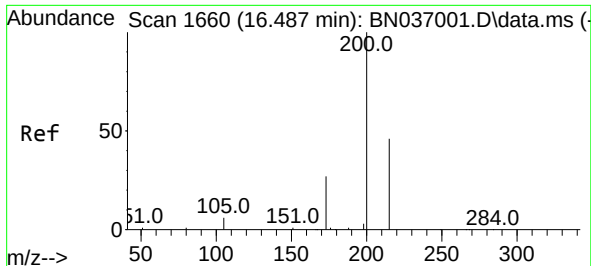


#22
Hexachlorobenzene
Concen: 0.394 ng
RT: 16.313 min Scan# 1646
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23



Tgt Ion:284 Resp: 1362
Ion Ratio Lower Upper
284 100
142 51.8 41.2 61.8
249 36.6 28.7 43.1

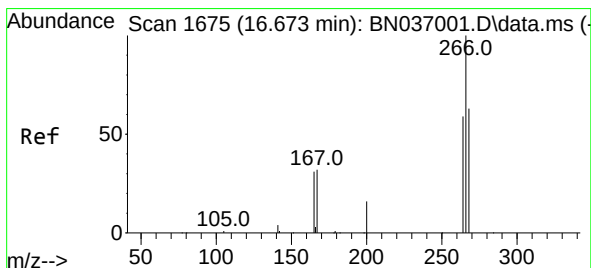
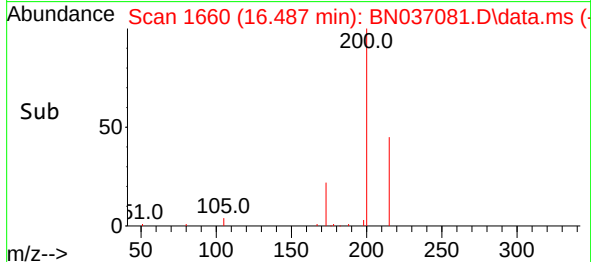
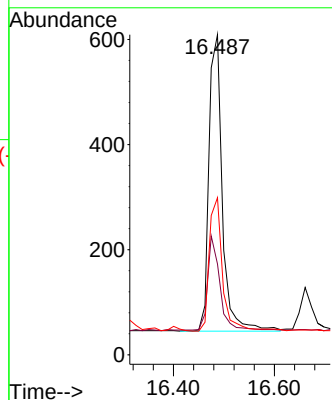
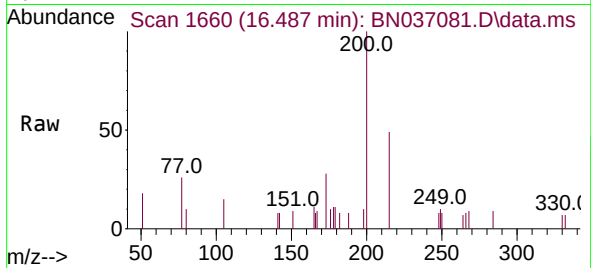




#23
Atrazine
Concen: 0.369 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

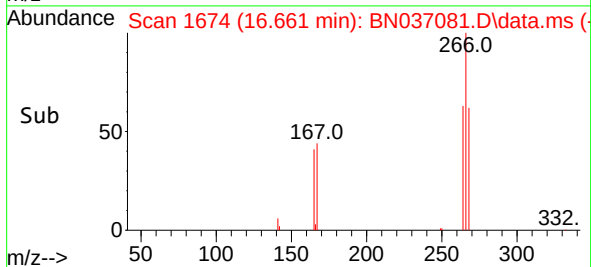
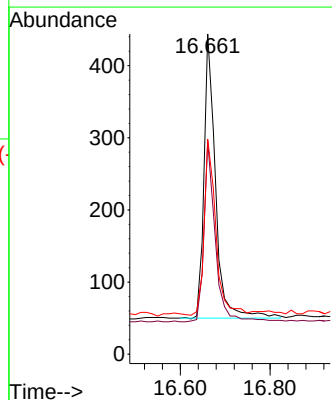
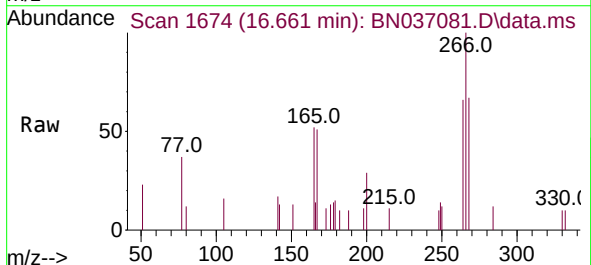
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

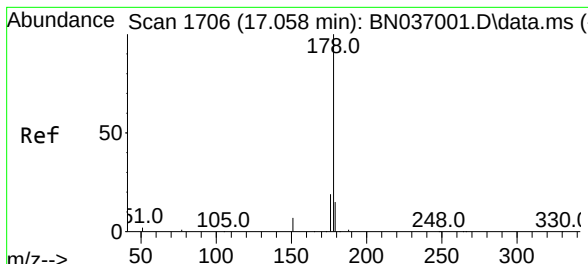
Tgt Ion:200 Resp: 1040
Ion Ratio Lower Upper
200 100
173 28.4 25.2 37.8
215 49.1 39.3 58.9



#24
Pentachlorophenol
Concen: 0.368 ng
RT: 16.661 min Scan# 1674
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:266 Resp: 701
Ion Ratio Lower Upper
266 100
264 61.8 47.9 71.9
268 63.1 50.0 75.0

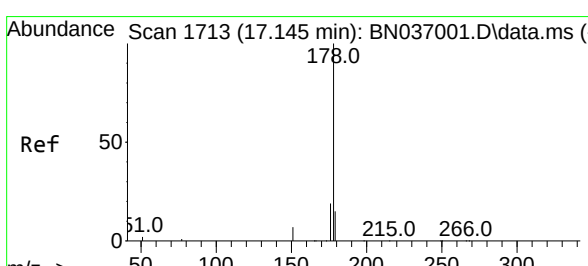
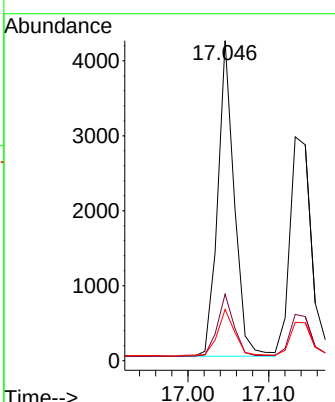
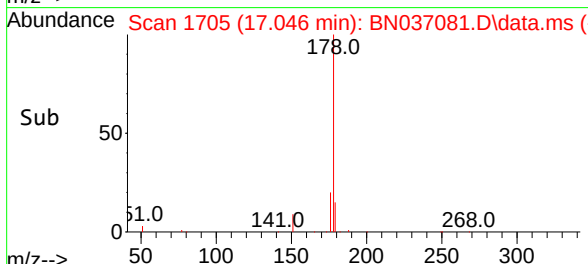
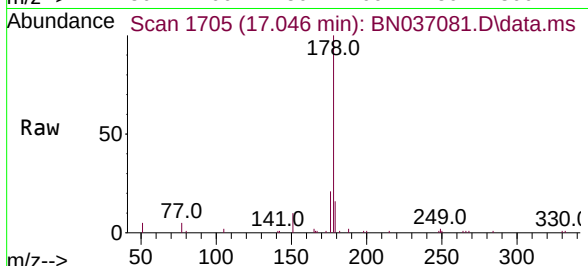




#25
 Phenanthrene
 Concen: 0.360 ng
 RT: 17.046 min Scan# 1712
 Delta R.T. -0.012 min
 Lab File: BN037081.D
 Acq: 20 May 2025 19:23

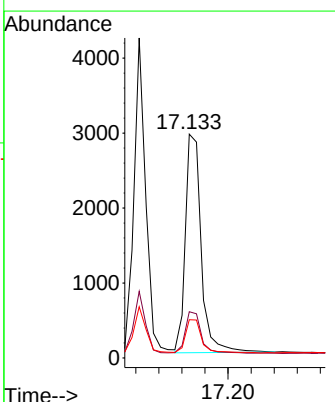
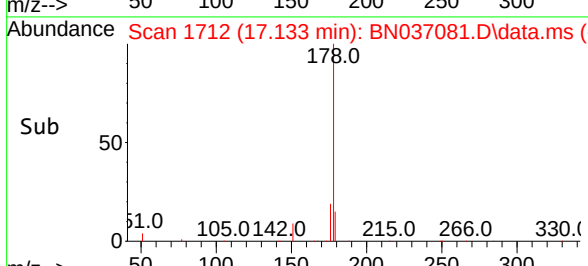
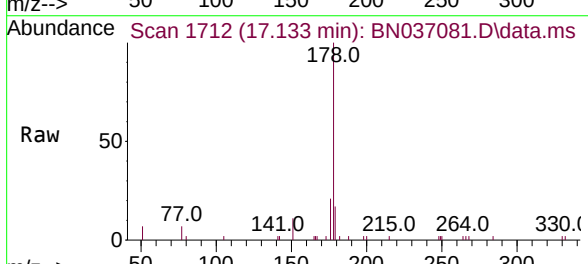
Instrument :
 BNA_N
 ClientSampleId :
 PB168032BSD

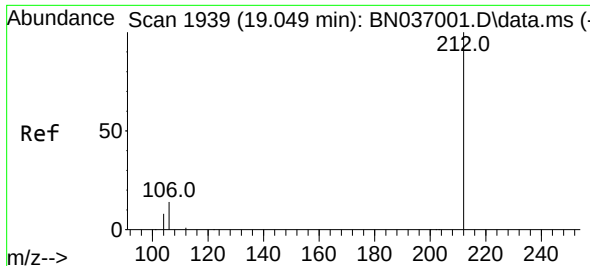
Tgt Ion:	178	Resp:	6008
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.8	12.2	18.2



#26
 Anthracene
 Concen: 0.366 ng
 RT: 17.133 min Scan# 1712
 Delta R.T. -0.012 min
 Lab File: BN037081.D
 Acq: 20 May 2025 19:23

Tgt Ion:	178	Resp:	5559
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.8	12.3	18.5

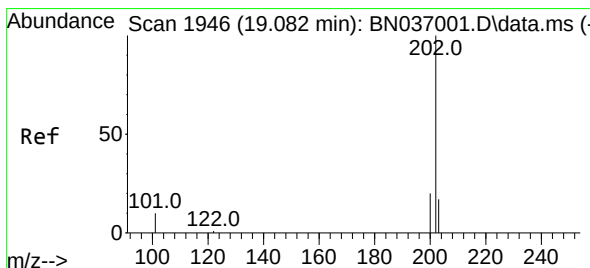
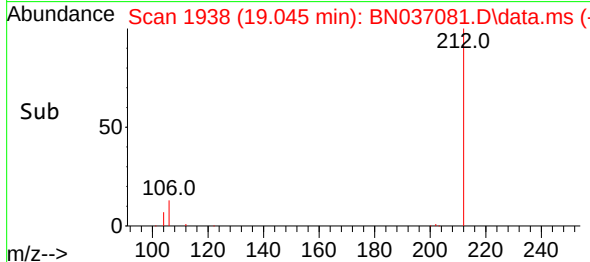
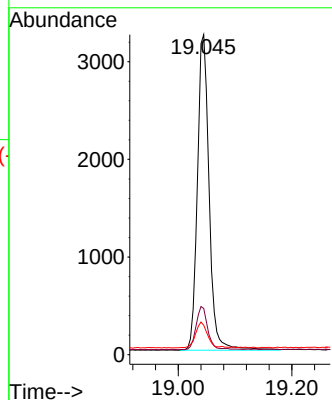
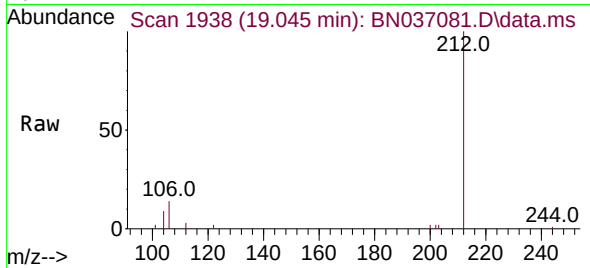




#27
Fluoranthene-d10
Concen: 0.330 ng
RT: 19.045 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

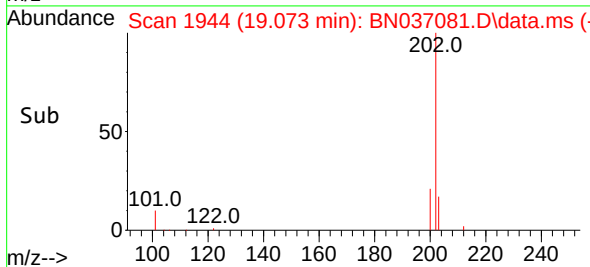
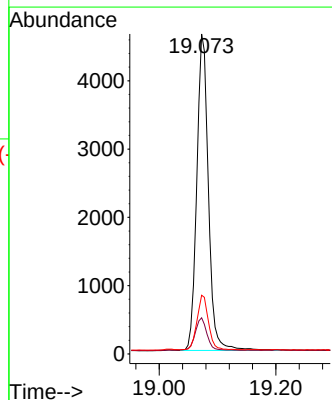
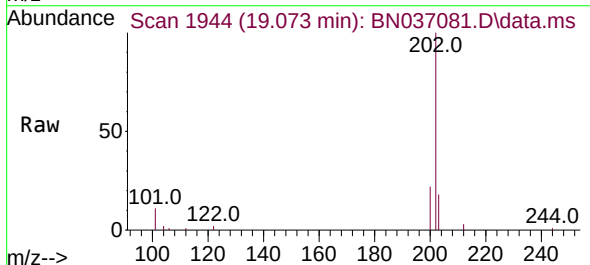
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

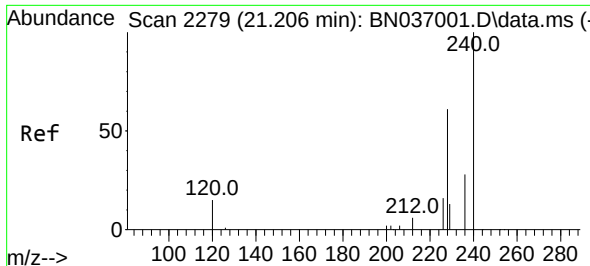
Tgt Ion:212 Resp: 4622
Ion Ratio Lower Upper
212 100
106 13.8 11.3 16.9
104 8.5 6.7 10.1



#28
Fluoranthene
Concen: 0.321 ng
RT: 19.073 min Scan# 1944
Delta R.T. -0.009 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:202 Resp: 6397
Ion Ratio Lower Upper
202 100
101 10.3 8.9 13.3
203 17.0 13.8 20.8

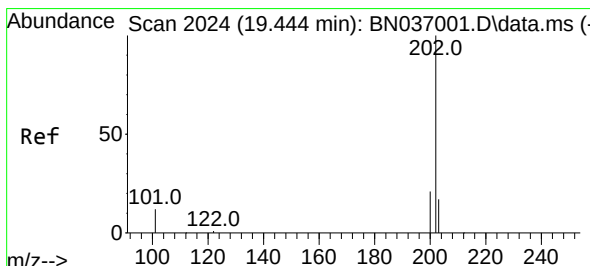
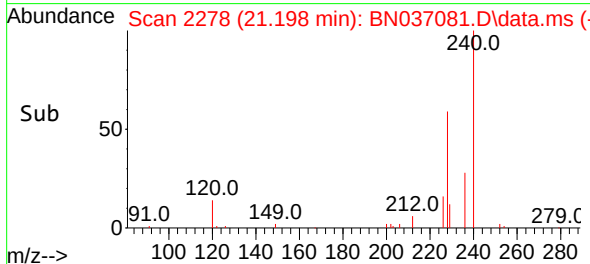
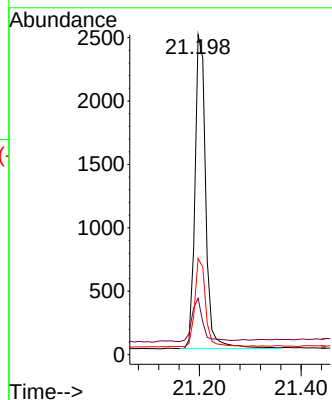
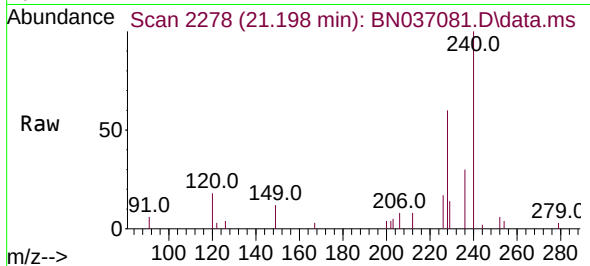




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.198 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

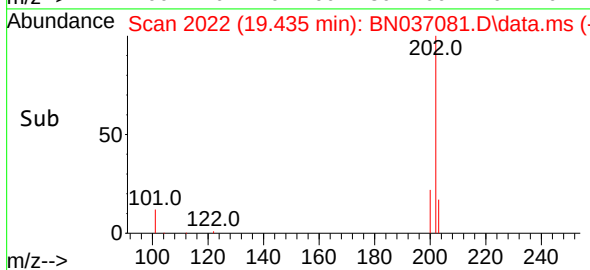
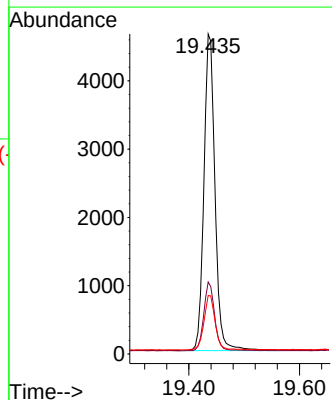
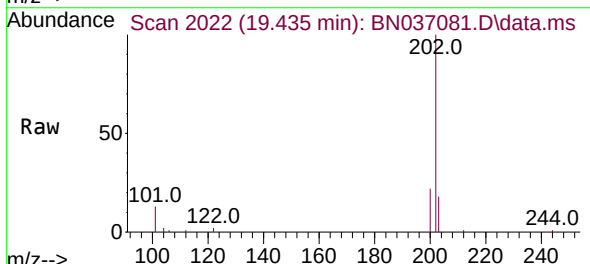
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

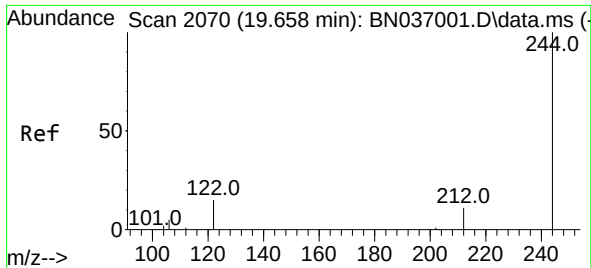
Tgt Ion:240 Resp: 3649
Ion Ratio Lower Upper
240 100
120 17.6 15.1 22.7
236 30.0 24.0 36.0



#30
Pyrene
Concen: 0.413 ng
RT: 19.435 min Scan# 2022
Delta R.T. -0.009 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:202 Resp: 6454
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 17.4 14.2 21.4

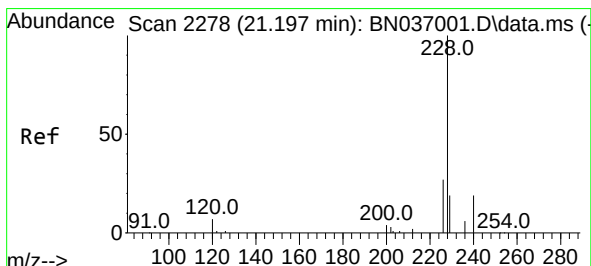
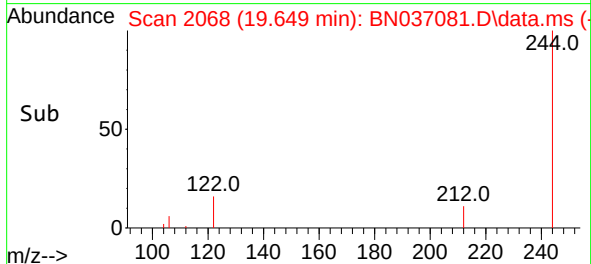
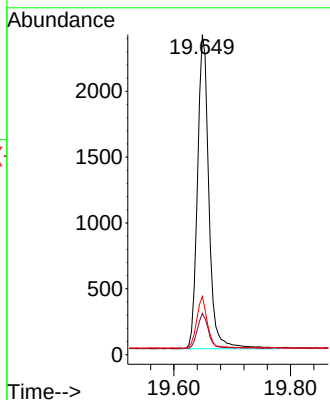
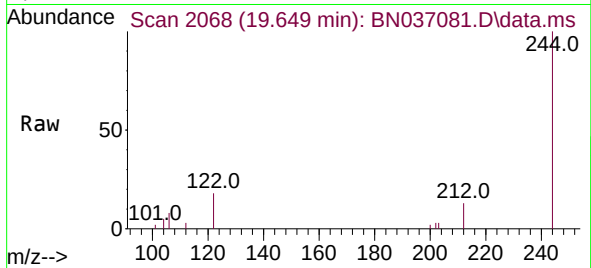




#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.649 min Scan# 2068
Delta R.T. -0.009 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

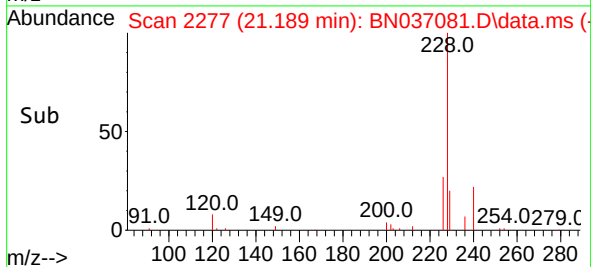
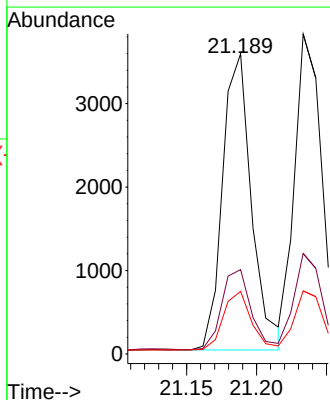
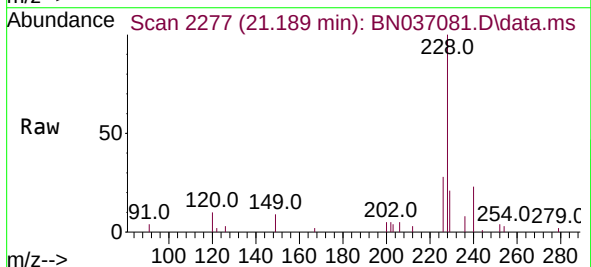
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

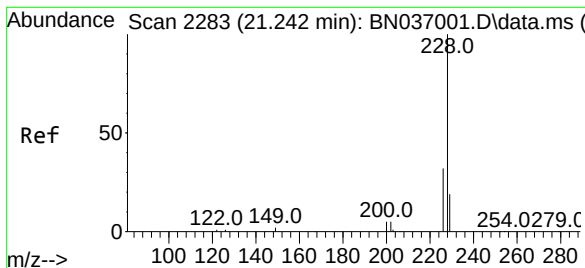
Tgt Ion:244 Resp: 3241
Ion Ratio Lower Upper
244 100
212 12.9 9.7 14.5
122 18.2 13.4 20.0



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.009 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:228 Resp: 5118
Ion Ratio Lower Upper
228 100
226 28.1 22.2 33.4
229 20.8 16.0 24.0





#33

Chrysene

Concen: 0.373 ng

RT: 21.233 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD

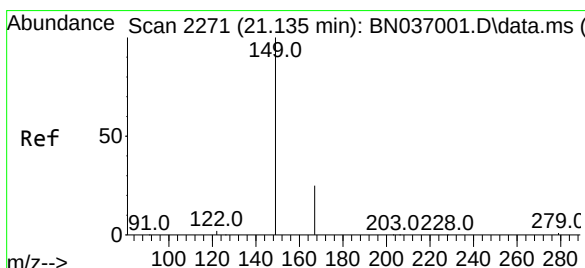
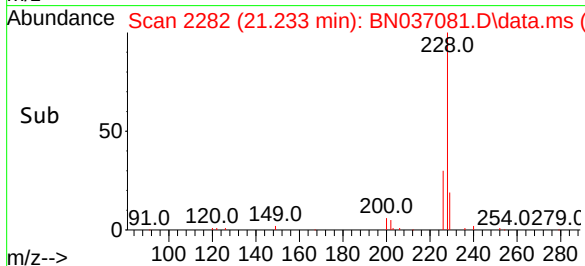
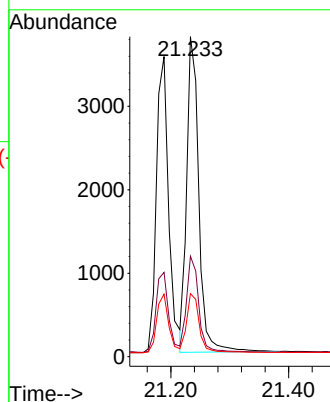
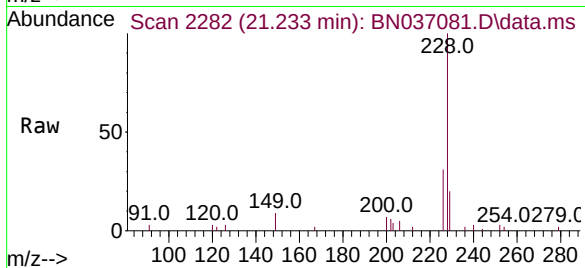
Tgt Ion:228 Resp: 5414

Ion Ratio Lower Upper

228 100

226 31.4 26.3 39.5

229 19.7 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.365 ng

RT: 21.126 min Scan# 2270

Delta R.T. -0.009 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

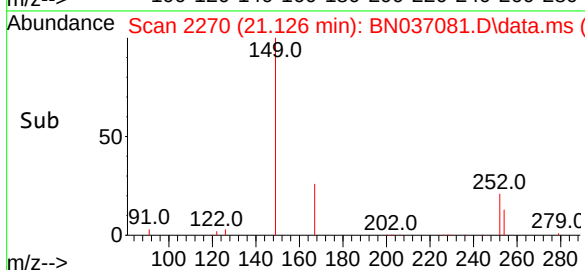
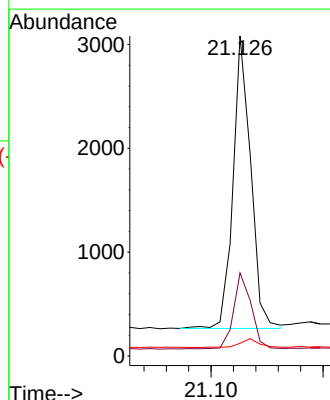
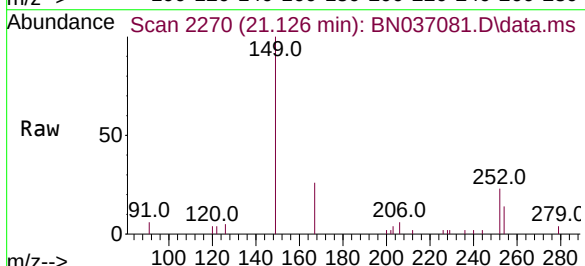
Tgt Ion:149 Resp: 3090

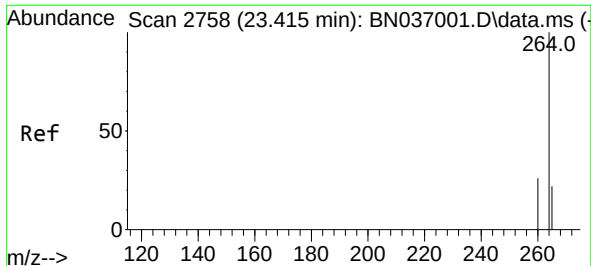
Ion Ratio Lower Upper

149 100

167 26.0 20.6 30.8

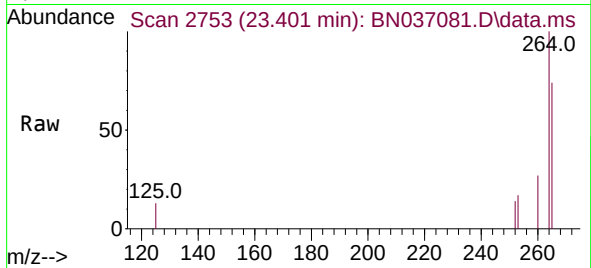
279 3.3 2.6 3.8





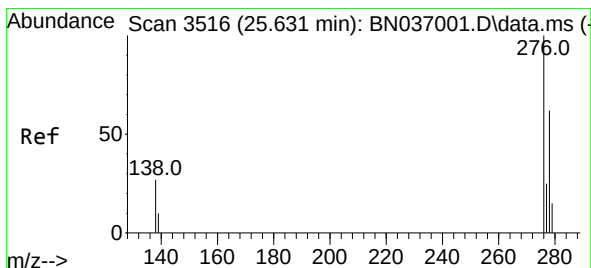
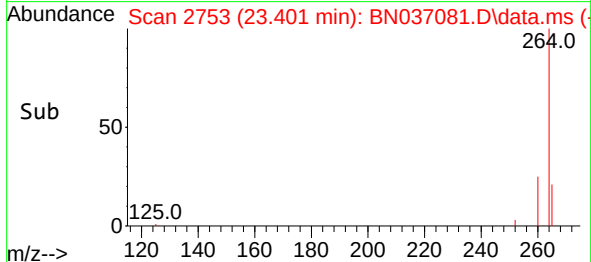
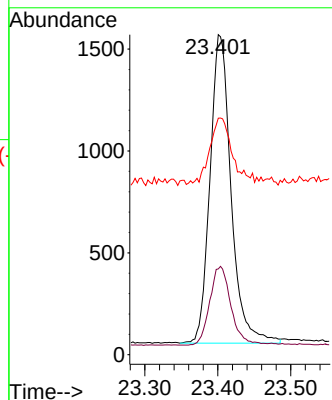
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.401 min Scan# 21
 Delta R.T. -0.015 min
 Lab File: BN037081.D
 Acq: 20 May 2025 19:23

Instrument :
 BNA_N
 ClientSampleId :
 PB168032BSD



Tgt Ion:264 Resp: 3038

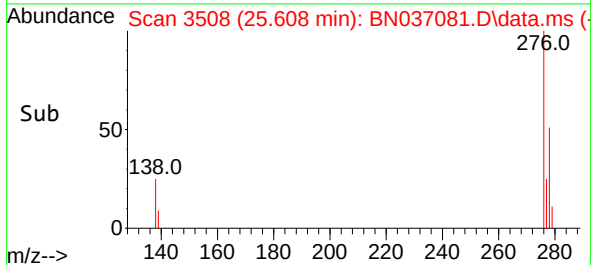
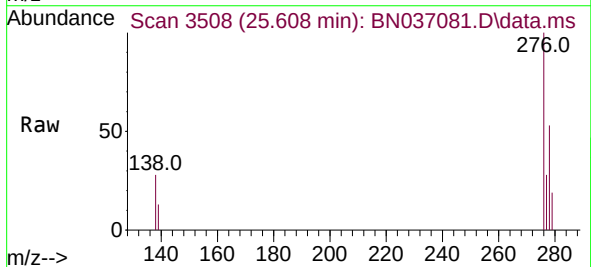
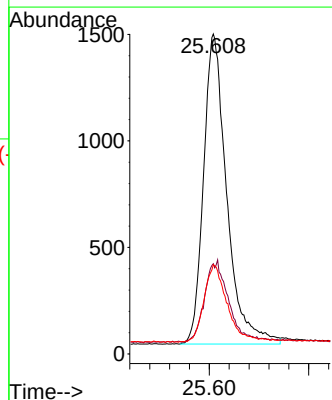
Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.9	32.9
265	73.9	51.6	77.4

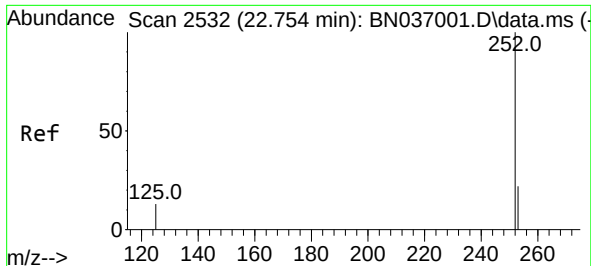


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.381 ng
 RT: 25.608 min Scan# 3508
 Delta R.T. -0.023 min
 Lab File: BN037081.D
 Acq: 20 May 2025 19:23

Tgt Ion:276 Resp: 4724

Ion	Ratio	Lower	Upper
276	100		
138	12.2	22.7	34.1#
277	24.8	20.0	30.0

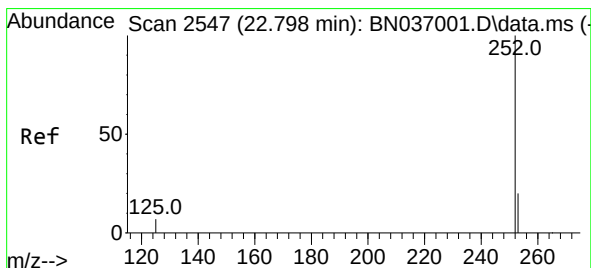
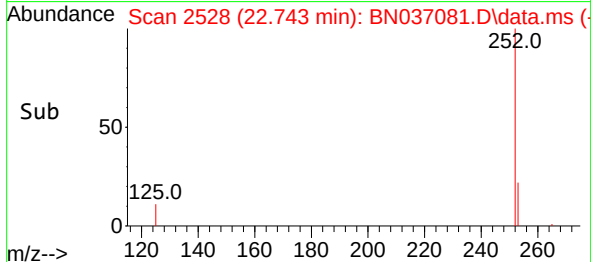
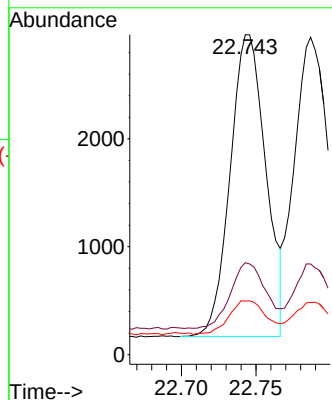
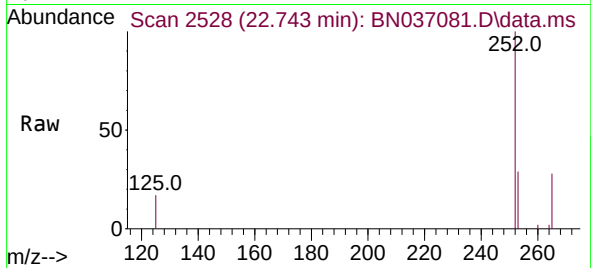




#37
Benzo(b)fluoranthene
Concen: 0.369 ng
RT: 22.743 min Scan# 2528
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

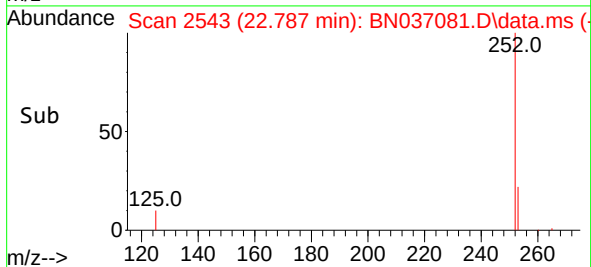
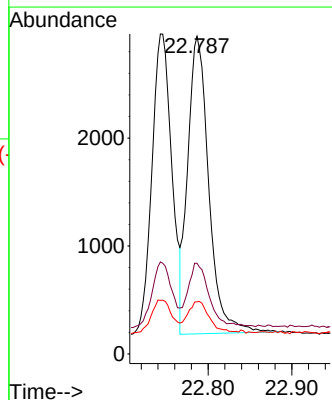
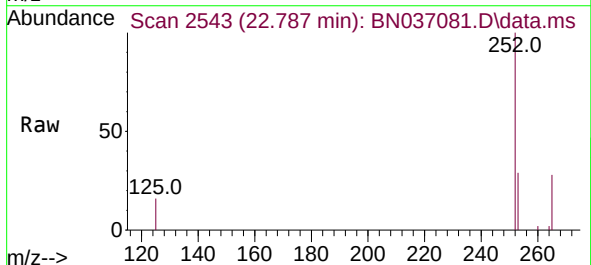
Instrument :
BNA_N
ClientSampleId :
PB168032BSD

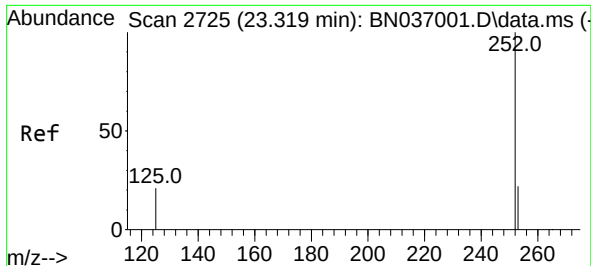
Tgt Ion:252 Resp: 4650
Ion Ratio Lower Upper
252 100
253 28.7 21.8 32.6
125 16.8 14.6 21.8



#38
Benzo(k)fluoranthene
Concen: 0.387 ng
RT: 22.787 min Scan# 2543
Delta R.T. -0.012 min
Lab File: BN037081.D
Acq: 20 May 2025 19:23

Tgt Ion:252 Resp: 4818
Ion Ratio Lower Upper
252 100
253 28.6 21.4 32.2
125 16.4 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.385 ng

RT: 23.307 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD

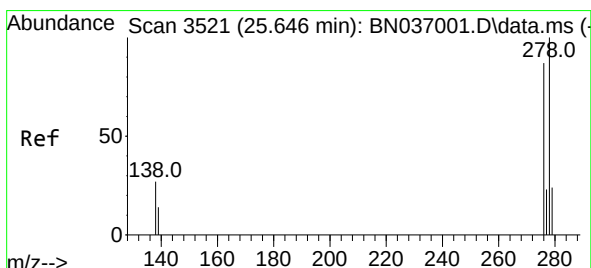
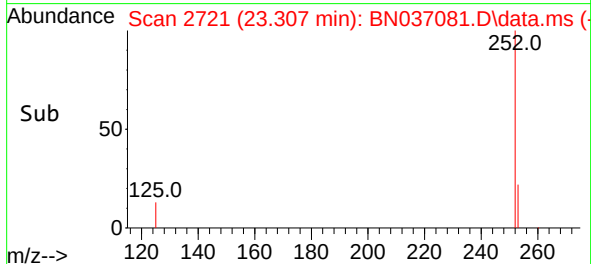
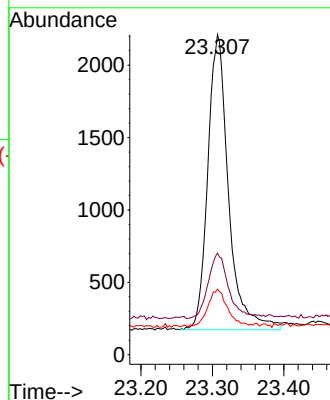
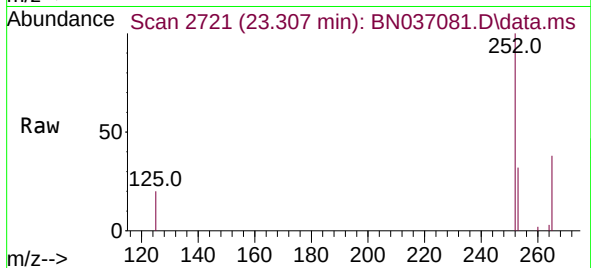
Tgt Ion:252 Resp: 4113

Ion Ratio Lower Upper

252 100

253 31.8 23.8 35.6

125 20.4 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 25.631 min Scan# 3516

Delta R.T. -0.015 min

Lab File: BN037081.D

Acq: 20 May 2025 19:23

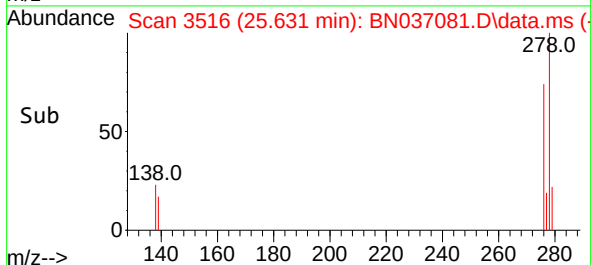
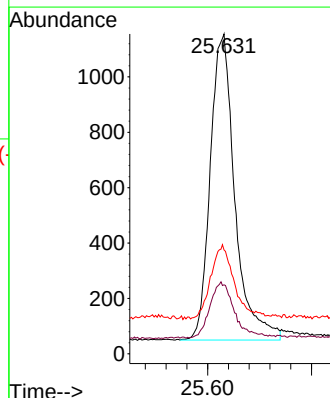
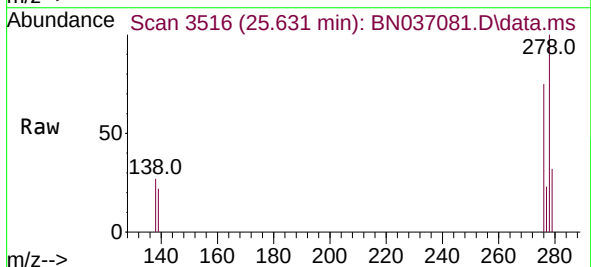
Tgt Ion:278 Resp: 3637

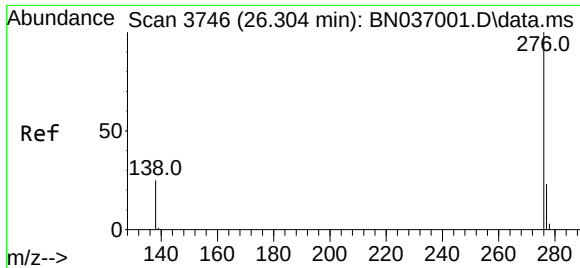
Ion Ratio Lower Upper

278 100

139 21.6 17.4 26.0

279 32.5 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.286 min Scan# 31

Delta R.T. -0.017 min

Lab File: BN037081.D

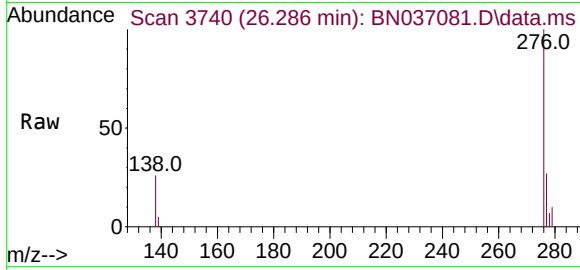
Acq: 20 May 2025 19:23

Instrument :

BNA_N

ClientSampleId :

PB168032BSD



Tgt Ion:276 Resp: 4012

Ion Ratio Lower Upper

276 100

277 26.5 20.2 30.4

138 26.4 22.0 33.0

