

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 : Q2881
ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2881

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2881-01
Q2881-02

Client Sample Number

RW8-SP100-20250814
RW8-SP303-20250814

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

Signature : _____

Date: 8/27/2025

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 # Q2881

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 08/15/2025.

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-GGA. The 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 were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The MS {Q2842-04MS} with File ID: BN037605.D recoveries met the requirements for all compounds except for 1,4-Dioxane[23%] due to matrix interference.

The MSD {Q2842-05MSD} with File ID: BN037606.D recoveries met the requirements for all compounds except for 1,4-Dioxane[24%] due to matrix interference.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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



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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2881

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements.			
	The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The MS {Q2842-04MS} with File ID: BN037605.D recoveries met the requirements for all compounds except for 1,4-Dioxane[23%] due to matrix interference.			
	The MSD {Q2842-05MSD} with File ID: BN037606.D recoveries met the requirements for all compounds except for 1,4-Dioxane[24%] due to matrix interference.			
	The Blank Spike met requirements for all compounds.			

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

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

ADDITIONAL COMMENTS:

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

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

The not QT review data is reported in the Miscellaneous.

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

 QA REVIEW

 Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2881

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 08/27/2025

LAB CHRONICLE

OrderID:	Q2881	OrderDate:	8/15/2025 10:55:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	J32

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2881-01	RW8-SP100-2025081 4	Water			08/14/25			08/15/25
			SVOC-SIMGroup1	8270-Modified		08/18/25	08/20/25	
Q2881-02	RW8-SP303-2025081 4	Water			08/14/25			08/15/25
			SVOC-SIMGroup1	8270-Modified		08/18/25	08/20/25	



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Hit Summary Sheet SW-846

SDG No.: Q2881

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	RW8-SP100-20250814							
Q2881-01	RW8-SP100-20250814	WATER	1,4-Dioxane	0.070	J	0.07	0.2	0.2 ug/L
			Total Svoc :		0.07			
			Total Concentration:		0.07			



QC SUMMARY

- 1
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Surrogate Summary

SW-846

SDG No.: Q2881

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169286BL	PB169286BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB169286BS	PB169286BS	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.31	76		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.35	88		58	132
Q2842-04MS	MW-17B-55.5-08122025MS	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q2842-05MSD	MW-17B-55.5-08122025MSD	2-Methylnaphthalene-d10	0.4	0.30	76		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.32	81		53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q2881-01	RW8-SP100-20250814	2-Methylnaphthalene-d10	0.4	0.26	65		30	150
		Fluoranthene-d10	0.4	0.37	92		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.42	105		58	132
Q2881-02	RW8-SP303-20250814	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.43	107		58	132

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.:	Q2881	Analytical Method:	SW8270-Modified
Client:	Tetra Tech NUS, Inc.	DataFile:	BN037605.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2842-04MS	Client Sample ID:	MW-17B-55.5-08122025MS								
1,4-Dioxane	0.43	2.90	3.00	ug/L	23	*			70	130	

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.:	Q2881	Analytical Method:	SW8270-Modified
Client:	Tetra Tech NUS, Inc.	DataFile:	BN037606.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2842-05MSD	Client Sample ID:	MW-17B-55.5-08122025MSD								
1,4-Dioxane	0.42	2.90	3.00	ug/L	24	*	4		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2881

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037630.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB169286BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169286BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2881

Lab File ID: BN037619.D

Lab Sample ID: PB169286BL

Instrument ID: BNA_N

Date Extracted: 08/18/2025

Matrix: (soil/water) Water

Date Analyzed: 08/20/2025

Level: (low/med) LOW

Time Analyzed: 04:50

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169286BS	PB169286BS	BN037630.D	08/20/2025
MW-17B-55.5-08122025MS	Q2842-04MS	BN037605.D	08/19/2025
MW-17B-55.5-08122025MSD	Q2842-05MSD	BN037606.D	08/19/2025
RW8-SP100-20250814	Q2881-01	BN037623.D	08/20/2025
RW8-SP303-20250814	Q2881-02	BN037624.D	08/20/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037576.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2881
DFTPP Injection Date: 08/12/2025
DFTPP Injection Time: 15:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	39.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	14.2
442	Greater than 50% of mass 198	84.5
443	15.0 - 24.0% of mass 442	16.2 (19.2) 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	BN037578.D	08/12/2025	16:26
SSTDICC0.2	SSTDICC0.2	BN037579.D	08/12/2025	17:03
SSTDICCC0.4	SSTDICCC0.4	BN037580.D	08/12/2025	17:39
SSTDICC0.8	SSTDICC0.8	BN037581.D	08/12/2025	18:16
SSTDICC1.6	SSTDICC1.6	BN037582.D	08/12/2025	18:52
SSTDICC3.2	SSTDICC3.2	BN037583.D	08/12/2025	19:29
SSTDICC5.0	SSTDICC5.0	BN037584.D	08/12/2025	20:05



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037599.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2881
DFTPP Injection Date: 08/19/2025
DFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	35.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
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
365	Greater than 1% of mass 198	4
441	Present, but less than mass 443	14.4
442	Greater than 50% of mass 198	97.7
443	15.0 - 24.0% of mass 442	17.9 (18.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037600.D	08/19/2025	10:39
MW-17B-55.5-08122025MS	Q2842-04MS	BN037605.D	08/19/2025	13:40
MW-17B-55.5-08122025MSD	Q2842-05MSD	BN037606.D	08/19/2025	14:17
SSTDCCC0.4EC	SSTDCCC0.4	BN037616.D	08/19/2025	20:19



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037617.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2881
DFTPP Injection Date: 08/20/2025
DFTPP Injection Time: 03:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	39.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
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	6.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	11.8
442	Greater than 50% of mass 198	78.3
443	15.0 - 24.0% of mass 442	14.9 (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
SSTDCCC0.4	SSTDCCC0.4	BN037618.D	08/20/2025	04:14
PB169286BL	PB169286BL	BN037619.D	08/20/2025	04:50
RW8-SP100-20250814	Q2881-01	BN037623.D	08/20/2025	07:13
RW8-SP303-20250814	Q2881-02	BN037624.D	08/20/2025	07:49
PB169286BS	PB169286BS	BN037630.D	08/20/2025	11:25
SSTDCCC0.4EC	SSTDCCC0.4	BN037631.D	08/20/2025	14:56

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID : SSTDCCC0.4

Date Analyzed: 08/19/2025

Lab File ID: BN037600.D

Time Analyzed: 10:39

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	2628	7.717	6457	10.50	3216	14.34
UPPER LIMIT	5256	8.217	12914	10.998	6432	14.844
LOWER LIMIT	1314	7.217	3228.5	9.998	1608	13.844
EPA SAMPLE NO.						
01 MW-17B-55.5-08122025MS	2023	7.72	4765	10.50	2380	14.35
02 MW-17B-55.5-08122025MSD	2022	7.72	4839	10.50	2406	14.34

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: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID: SSTDCCC0.4

Date Analyzed: 08/19/2025

Lab File ID: BN037600.D

Time Analyzed: 10:39

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	6293	17.086	5356	21.267	5379	23.504
UPPER LIMIT	12586	17.586	10712	21.767	10758	24.004
LOWER LIMIT	3146.5	16.586	2678	20.767	2689.5	23.004
EPA SAMPLE NO.						
01 MW-17B-55.5-08122025MS	4922	17.09	4507	21.27	3909	23.51
02 MW-17B-55.5-08122025MSD	5009	17.09	4561	21.27	3935	23.50

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID : SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037618.D

Time Analyzed: 04:14

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	2622	7.71	6166	10.50	3094	14.35
UPPER LIMIT	5244	8.21	12332	10.998	6188	14.845
LOWER LIMIT	1311	7.21	3083	9.998	1547	13.845
EPA SAMPLE NO.						
01 RW8-SP100-20250814	2130	7.72	4994	10.50	2388	14.35
02 RW8-SP303-20250814	2203	7.71	5181	10.50	2518	14.35
03 PB169286BL	2323	7.71	5229	10.50	2344	14.35
04 PB169286BS	2389	7.71	5616	10.49	2629	14.35

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: Alliance

Lab Code: ACE

SDG NO.: Q2881

Client ID: SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037618.D

Time Analyzed: 04:14

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	6113	17.086	5494	21.268	5322	23.499
UPPER LIMIT	12226	17.586	10988	21.768	10644	23.999
LOWER LIMIT	3056.5	16.586	2747	20.768	2661	22.999
EPA SAMPLE NO.						
01 RW8-SP100-20250814	5113	17.09	4521	21.27	4086	23.50
02 RW8-SP303-20250814	5410	17.09	4670	21.27	4150	23.50
03 PB169286BL	4466	17.09	3733	21.27	3552	23.50
04 PB169286BS	5040	17.09	4175	21.27	3780	23.50

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

1
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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/14/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/15/25
Client Sample ID:	RW8-SP100-20250814	SDG No.:	Q2881
Lab Sample ID:	Q2881-01	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
BN037623.D	1	08/18/25 08:41	08/20/25 07:13	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.070	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		65%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		105%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2130	7.717				
1146-65-2	Naphthalene-d8	4990	10.498				
15067-26-2	Acenaphthene-d10	2390	14.345				
1517-22-2	Phenanthrene-d10	5110	17.086				
1719-03-5	Chrysene-d12	4520	21.268				
1520-96-3	Perylene-d12	4090	23.499				

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\BN081925\
Data File : BN037623.D
Acq On : 20 Aug 2025 07:13
Operator : RC/JU
Sample : Q2881-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

Quant Time: Aug 20 08:17:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

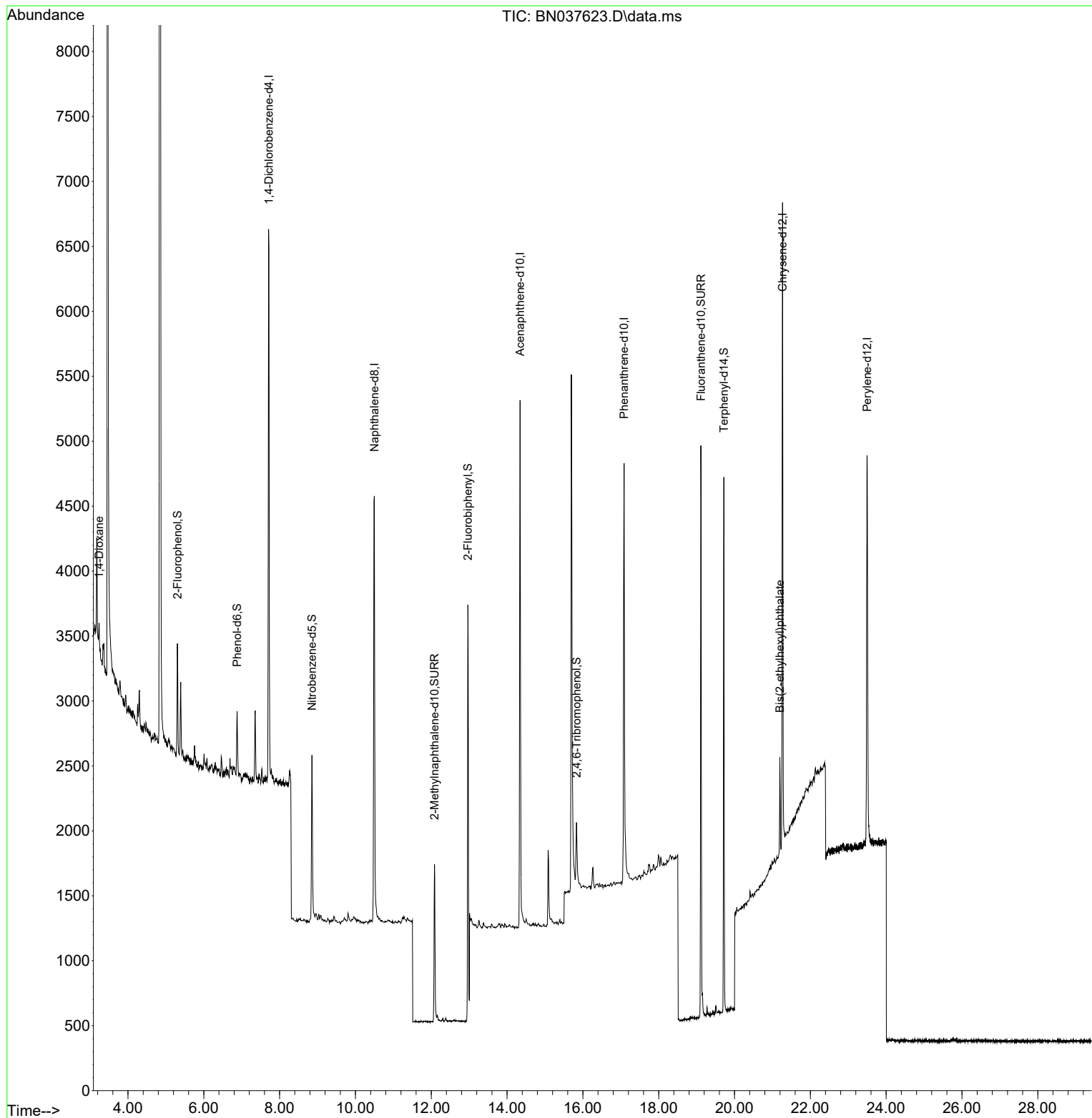
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2130	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4994	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2388	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5113	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4521	0.400	ng	0.00
35) Perylene-d12	23.499	264	4086	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	640	0.133	ng	0.00
5) Phenol-d6	6.879	99	437	0.075	ng	0.00
8) Nitrobenzene-d5	8.854	82	1120	0.318	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	1772	0.261	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	366	0.350	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	4248	0.308	ng	0.00
27) Fluoranthene-d10	19.113	212	4954	0.368	ng	0.00
31) Terphenyl-d14	19.717	244	3923	0.422	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	133	0.065	ng	# 14
34) Bis(2-ethylhexyl)phtha...	21.196	149	697	0.112	ng	# 98

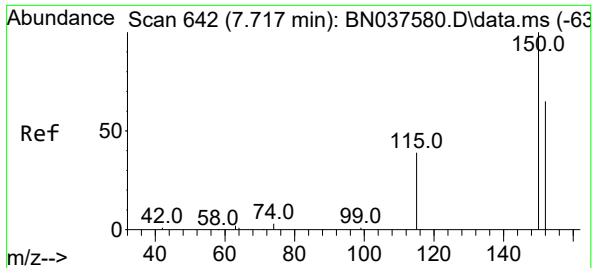
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037623.D
Acq On : 20 Aug 2025 07:13
Operator : RC/JU
Sample : Q2881-01
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

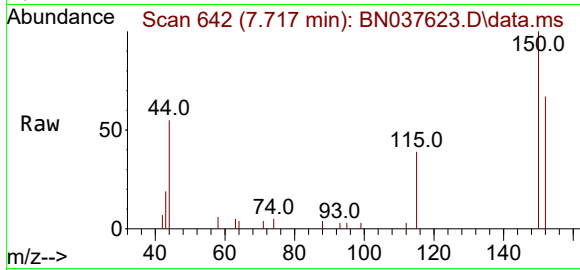
Quant Time: Aug 20 08:17:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



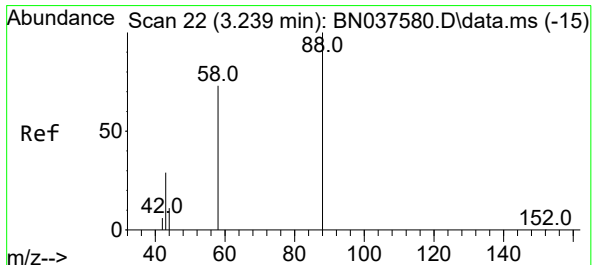
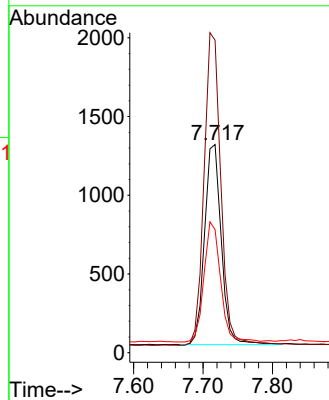
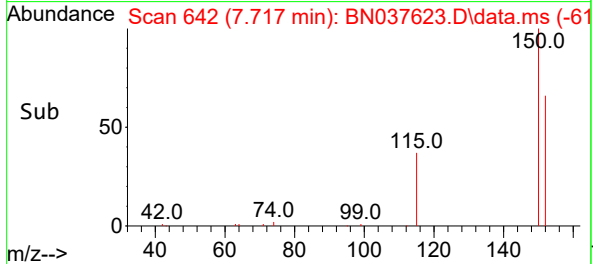


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN037623.D
 Acq: 20 Aug 2025 07:13

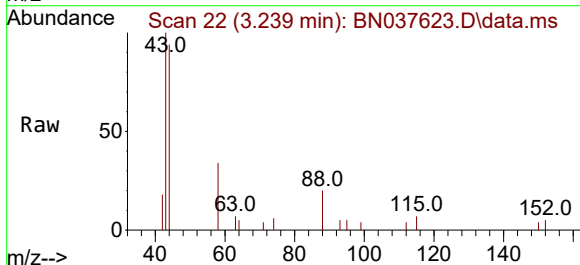
Instrument :
 BNA_N
 ClientSampleId :
 RW8-SP100-20250814



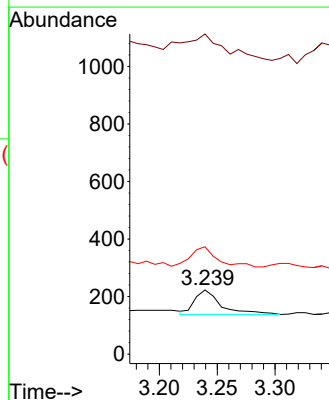
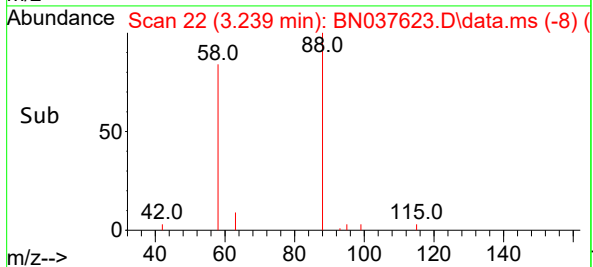
Tgt Ion: 152 Resp: 2130
 Ion Ratio Lower Upper
 152 100
 150 150.0 122.2 183.4
 115 59.1 49.8 74.6

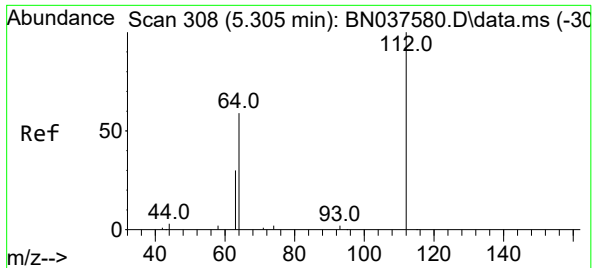


#2
 1,4-Dioxane
 Concen: 0.065 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN037623.D
 Acq: 20 Aug 2025 07:13



Tgt Ion: 88 Resp: 133
 Ion Ratio Lower Upper
 88 100
 43 184.2 25.8 38.6#
 58 82.7 61.2 91.8

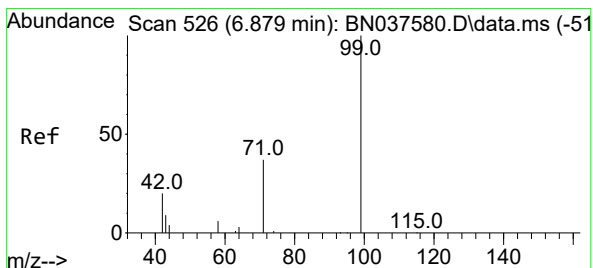
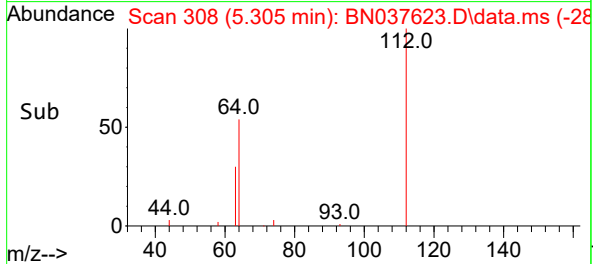
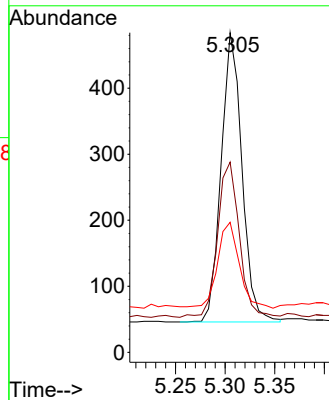
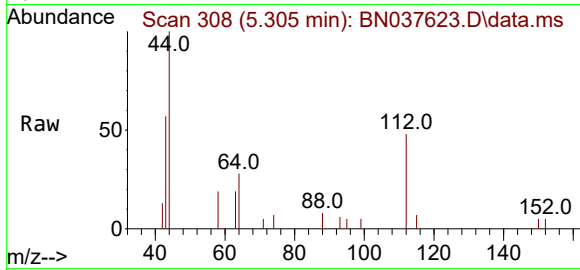




#4
2-Fluorophenol
Concen: 0.133 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

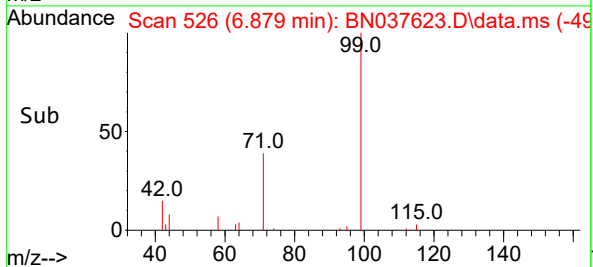
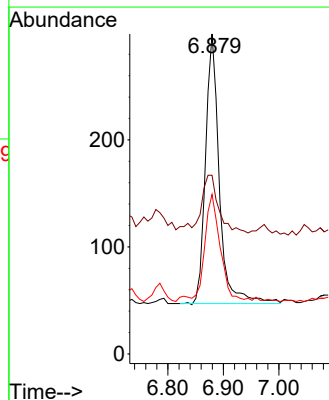
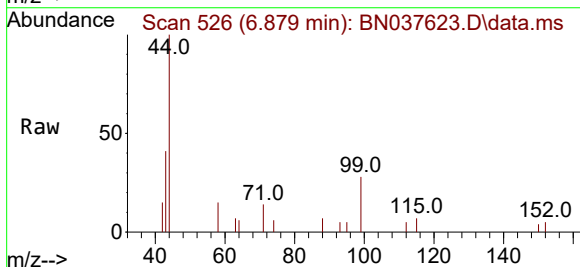
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

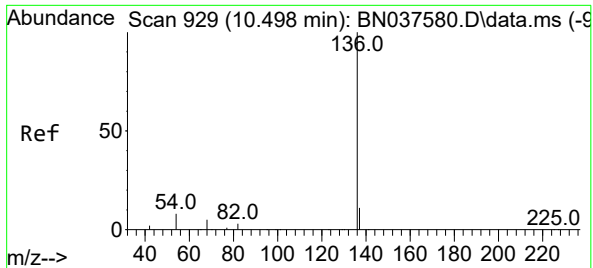
Tgt Ion:	112	Resp:	640
Ion	Ratio	Lower	Upper
112	100		
64	56.1	44.9	67.3
63	31.3	23.4	35.2



#5
Phenol-d6
Concen: 0.075 ng
RT: 6.879 min Scan# 526
Delta R.T. 0.000 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

Tgt Ion:	99	Resp:	437
Ion	Ratio	Lower	Upper
99	100		
42	26.8	18.5	27.7
71	41.6	28.6	42.8

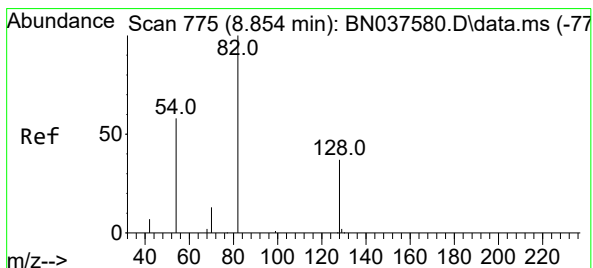
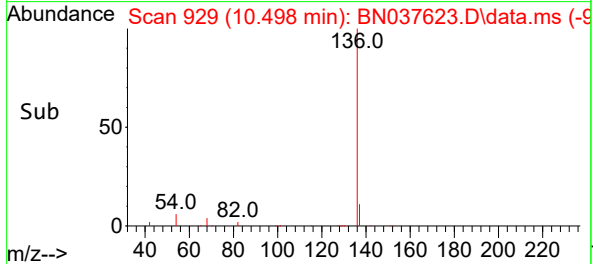
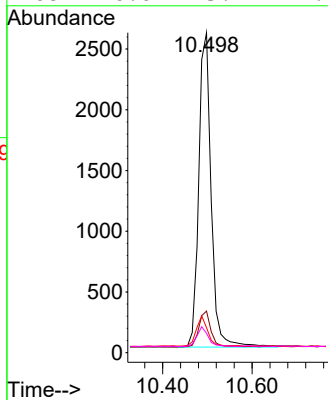
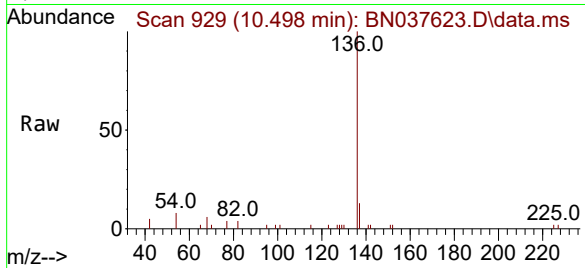




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

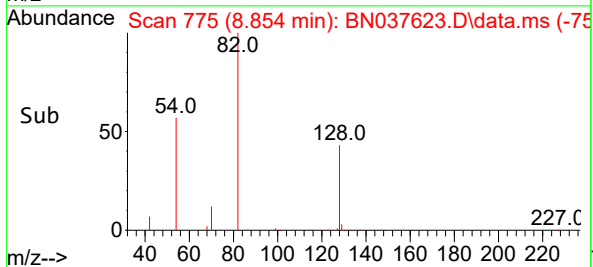
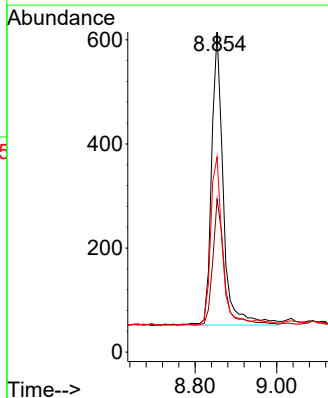
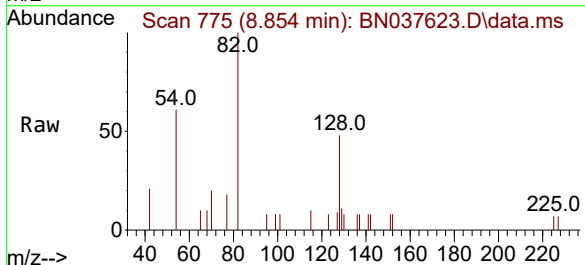
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

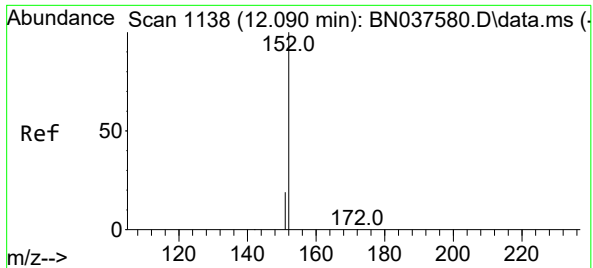
Tgt Ion:	136	Resp:	4994
Ion	Ratio	Lower	Upper
136	100		
137	13.0	9.5	14.3
54	7.8	7.3	10.9
68	6.0	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.318 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

Tgt Ion:	82	Resp:	1120
Ion	Ratio	Lower	Upper
82	100		
128	47.8	32.6	48.8
54	61.0	48.9	73.3

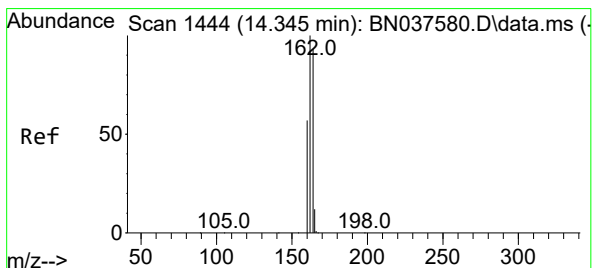
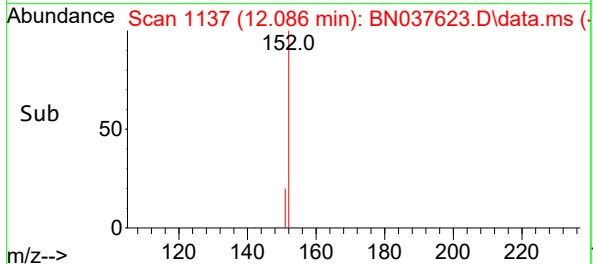
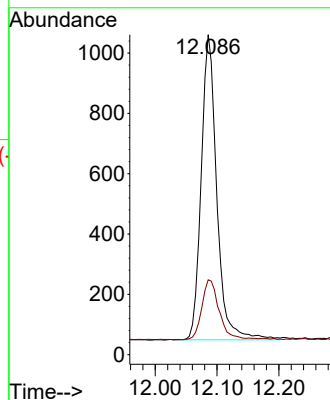
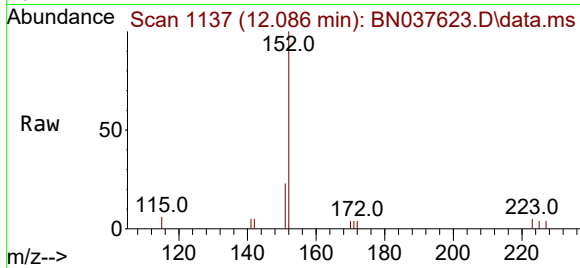




#11
2-Methylnaphthalene-d10
Concen: 0.261 ng
RT: 12.086 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

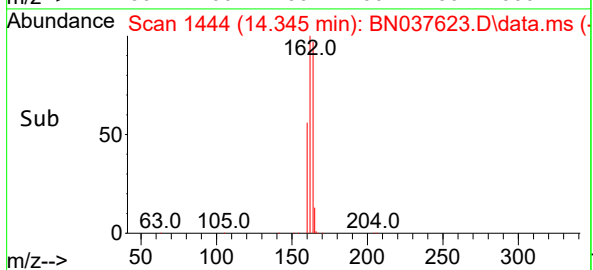
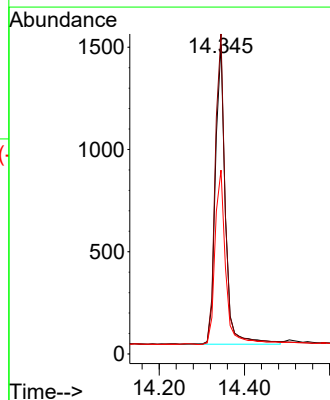
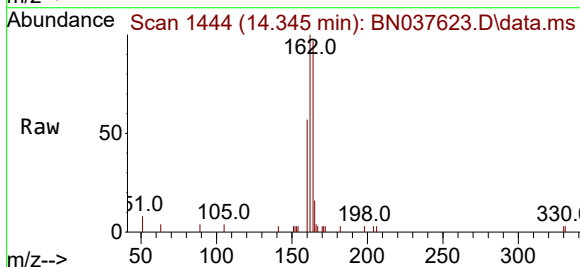
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

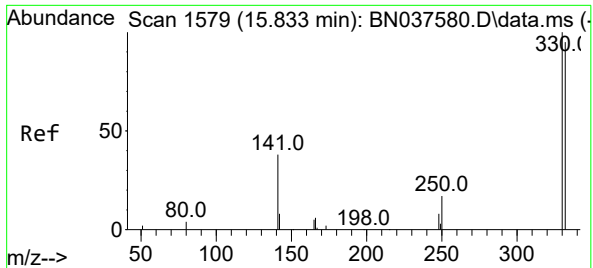
Tgt Ion:152 Resp: 1772
Ion Ratio Lower Upper
152 100
151 22.1 17.3 25.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

Tgt Ion:164 Resp: 2388
Ion Ratio Lower Upper
164 100
162 103.4 85.5 128.3
160 59.4 49.5 74.3

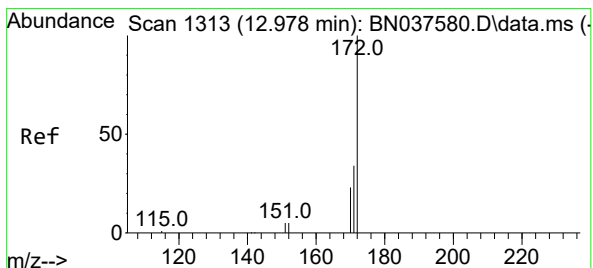
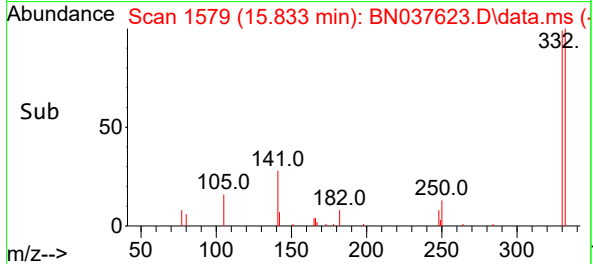
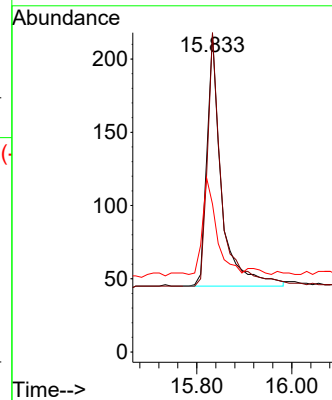
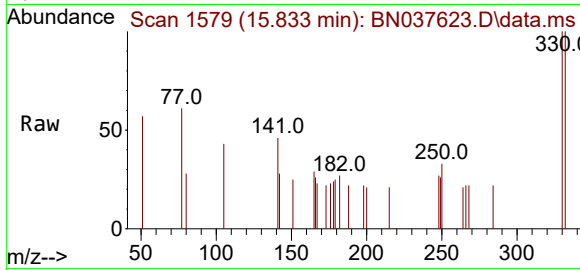




#14
2,4,6-Tribromophenol
Concen: 0.350 ng
RT: 15.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

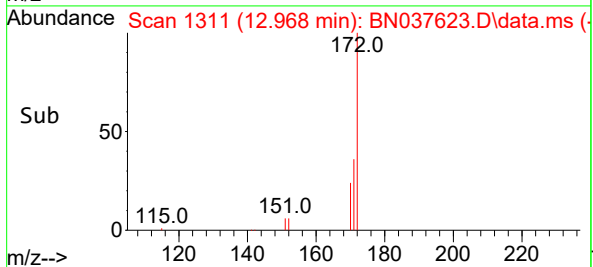
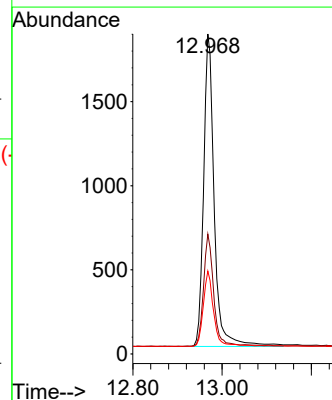
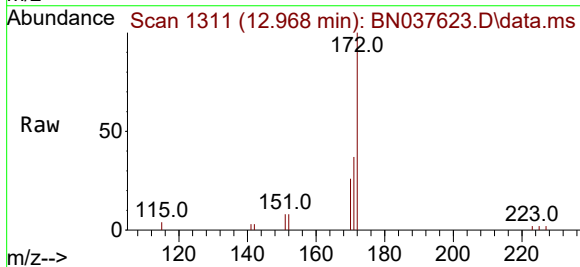
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

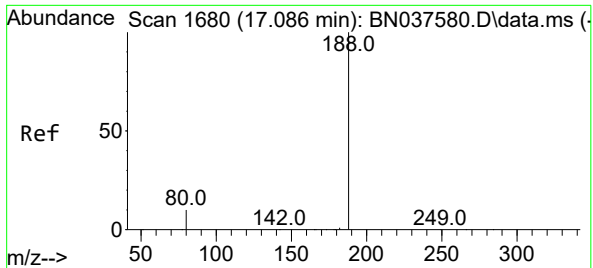
Tgt Ion:	330	Resp:	366
Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.4	116.0
141	37.4	30.9	46.3



#15
2-Fluorobiphenyl
Concen: 0.308 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.010 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

Tgt Ion:	172	Resp:	4248
Ion	Ratio	Lower	Upper
172	100		
171	37.4	28.2	42.4
170	25.9	19.2	28.8

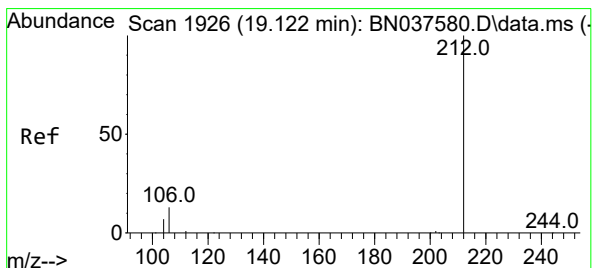
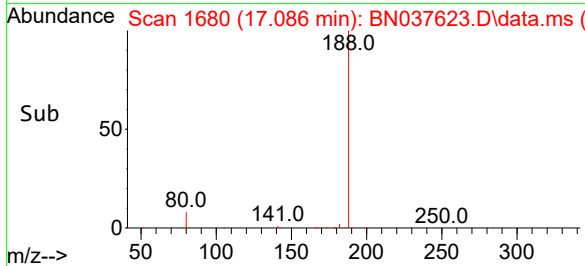
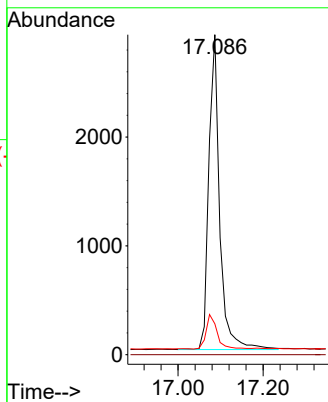
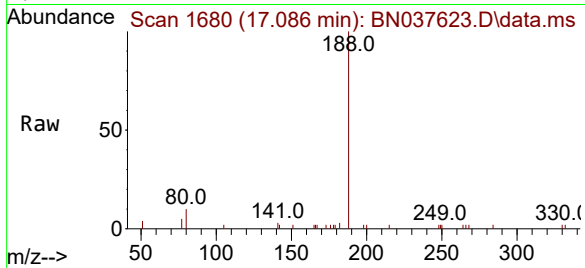




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

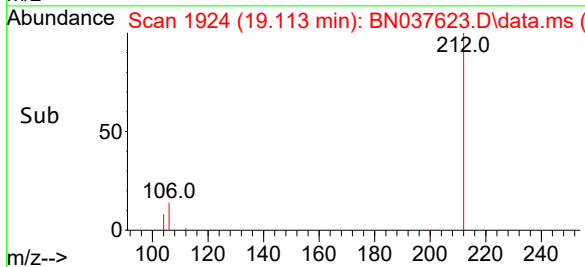
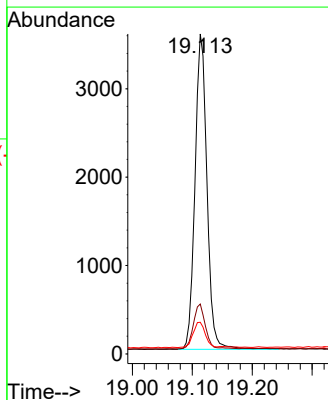
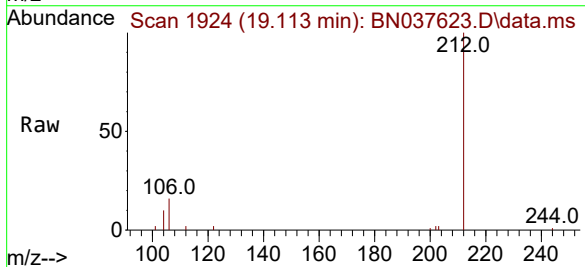
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

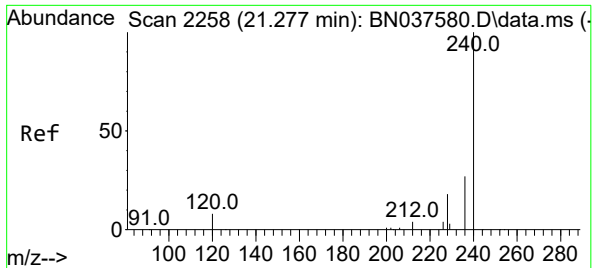
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	9.1	13.7



#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.009 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.5	17.3
104	8.1	6.6	9.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037623.D

Acq: 20 Aug 2025 07:13

Instrument :

BNA_N

ClientSampleId :

RW8-SP100-20250814

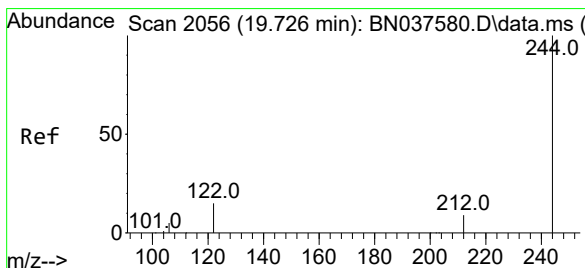
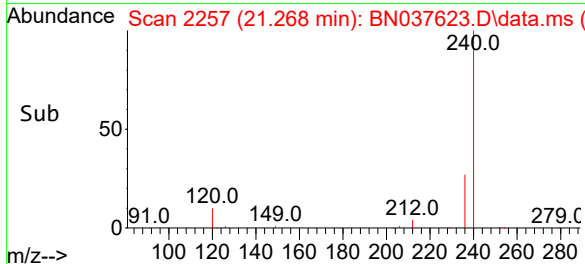
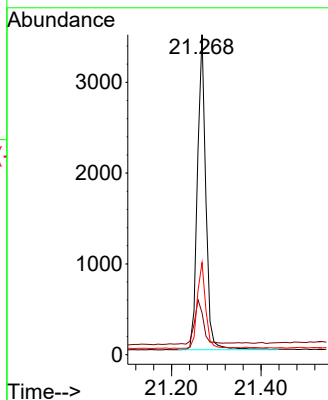
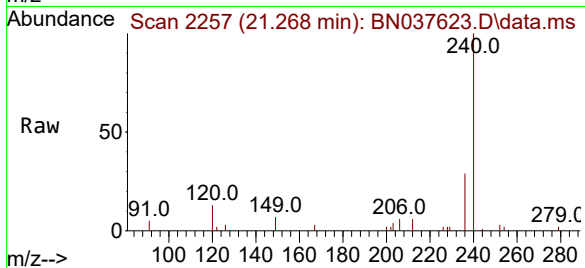
Tgt Ion:240 Resp: 4521

Ion Ratio Lower Upper

240 100

120 13.1 8.9 13.3

236 28.8 22.6 33.8



#31

Terphenyl-d14

Concen: 0.422 ng

RT: 19.717 min Scan# 2054

Delta R.T. -0.009 min

Lab File: BN037623.D

Acq: 20 Aug 2025 07:13

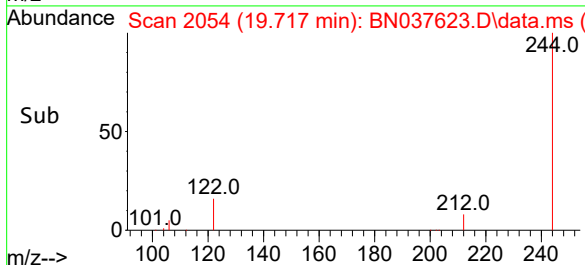
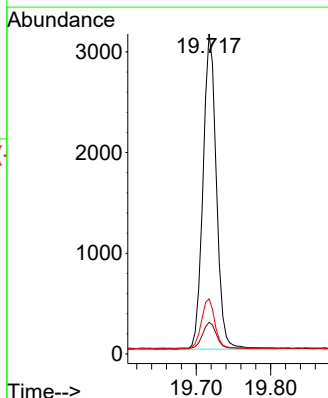
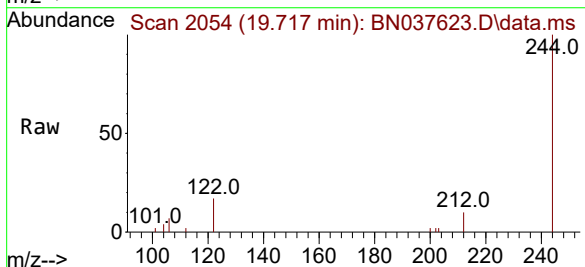
Tgt Ion:244 Resp: 3923

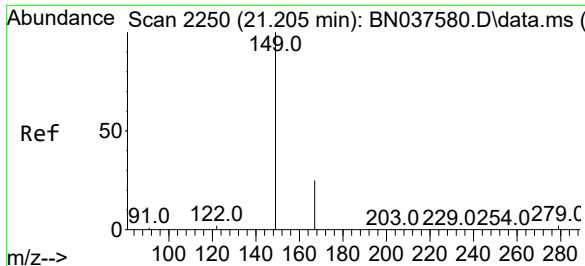
Ion Ratio Lower Upper

244 100

212 9.9 8.2 12.2

122 17.3 13.2 19.8

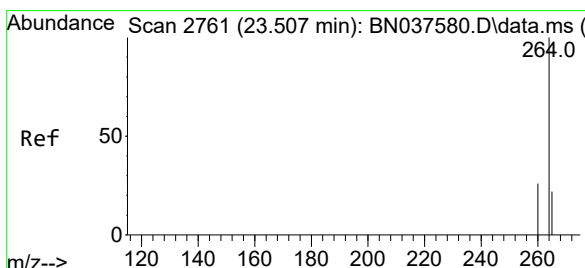
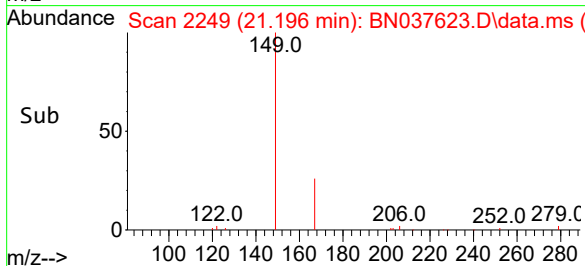
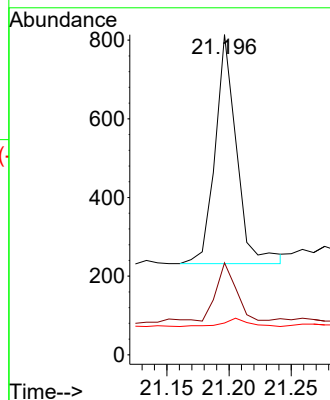
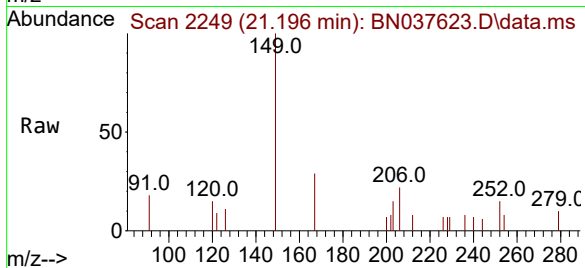




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.112 ng
RT: 21.196 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

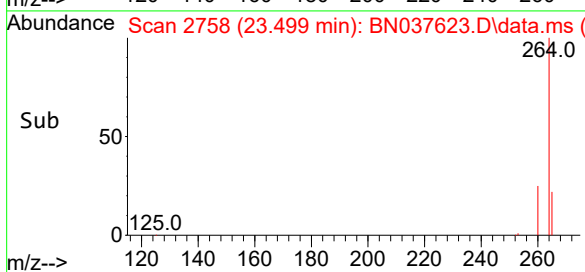
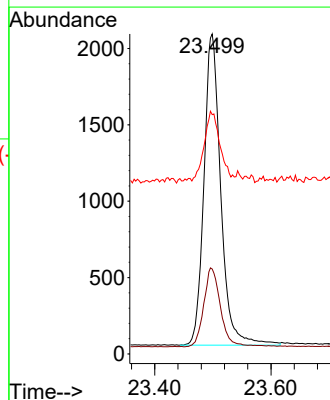
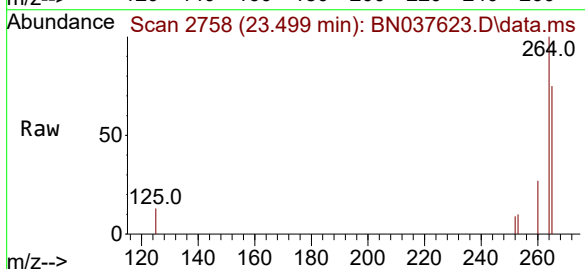
Instrument :
BNA_N
ClientSampleId :
RW8-SP100-20250814

Tgt Ion:149 Resp: 697
Ion Ratio Lower Upper
149 100
167 26.7 20.5 30.7
279 4.2 2.6 4.0#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 2758
Delta R.T. -0.009 min
Lab File: BN037623.D
Acq: 20 Aug 2025 07:13

Tgt Ion:264 Resp: 4086
Ion Ratio Lower Upper
264 100
260 26.5 21.6 32.4
265 74.8 48.2 72.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/14/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/15/25
Client Sample ID:	RW8-SP303-20250814	SDG No.:	Q2881
Lab Sample ID:	Q2881-02	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
BN037624.D	1	08/18/25 08:41	08/20/25 07:49	PB169286

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	0.27		30 - 150		68%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.43		58 - 132		107%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2200	7.71				
1146-65-2	Naphthalene-d8	5180	10.498				
15067-26-2	Acenaphthene-d10	2520	14.345				
1517-22-2	Phenanthrene-d10	5410	17.086				
1719-03-5	Chrysene-d12	4670	21.268				
1520-96-3	Perylene-d12	4150	23.502				

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\BN081925\
Data File : BN037624.D
Acq On : 20 Aug 2025 07:49
Operator : RC/JU
Sample : Q2881-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

Quant Time: Aug 20 08:17:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

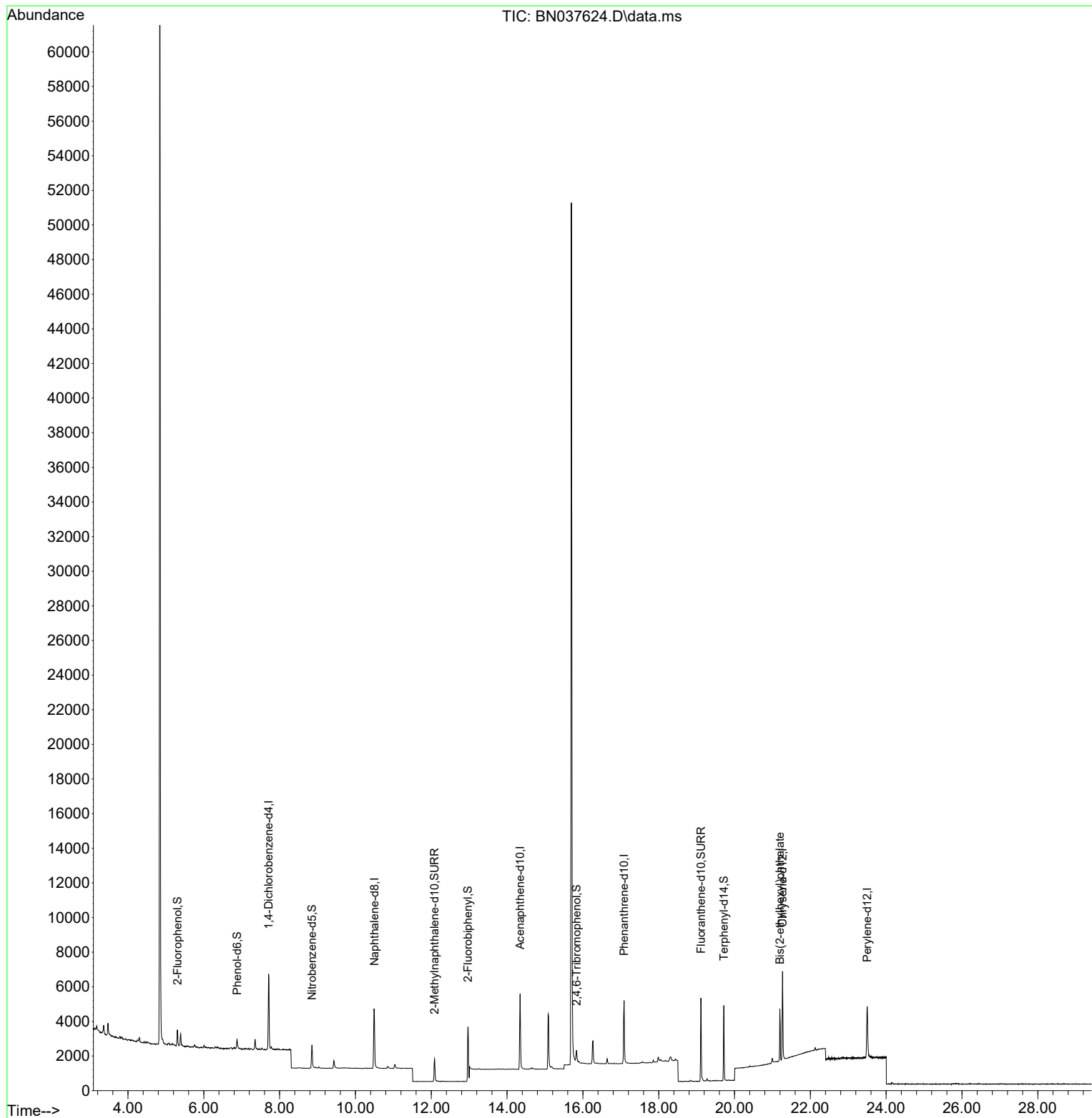
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2203	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5181	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2518	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5410	0.400	ng	# 0.00
29) Chrysene-d12	21.268	240	4670	0.400	ng	# 0.00
35) Perylene-d12	23.502	264	4150	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	706	0.141	ng	0.00
5) Phenol-d6	6.879	99	485	0.081	ng	0.00
8) Nitrobenzene-d5	8.854	82	1190	0.326	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	1900	0.270	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	382	0.347	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	4349	0.299	ng	0.00
27) Fluoranthene-d10	19.113	212	5272	0.370	ng	0.00
31) Terphenyl-d14	19.717	244	4123	0.429	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.196	149	2684	0.417	ng	Qvalue 99

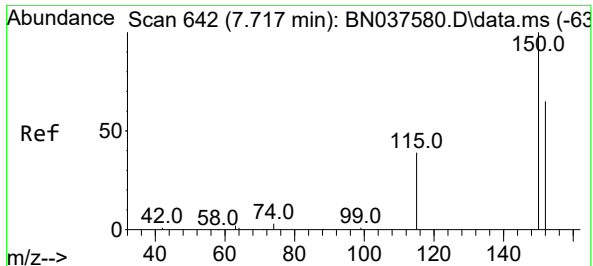
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037624.D
Acq On : 20 Aug 2025 07:49
Operator : RC/JU
Sample : Q2881-02
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

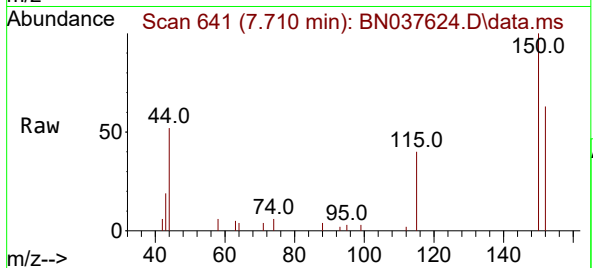
Quant Time: Aug 20 08:17:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



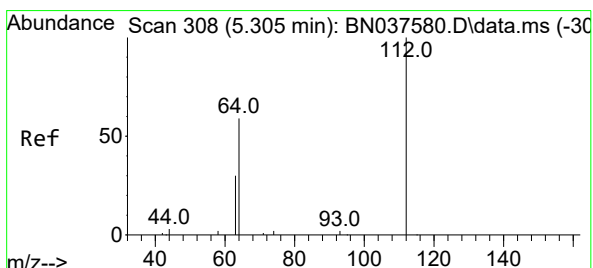
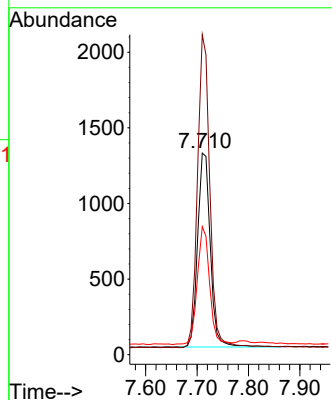
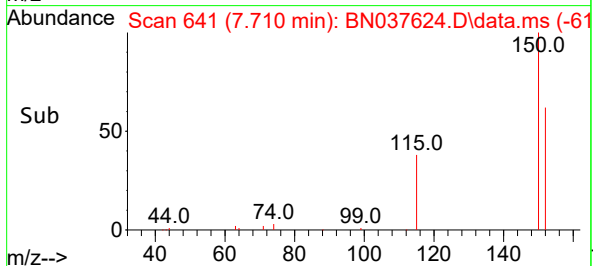


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 641
Delta R.T. -0.007 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

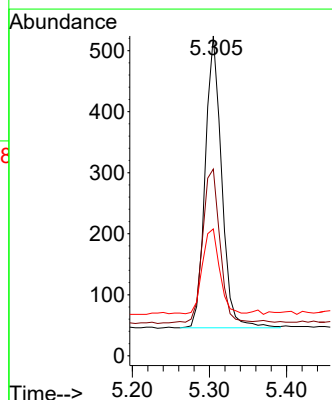
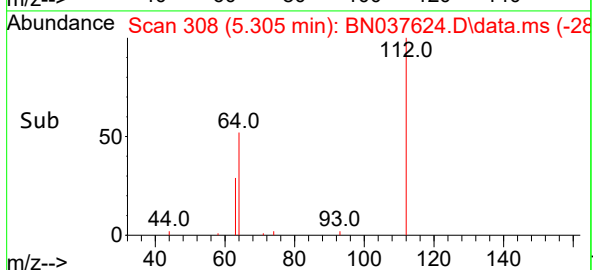
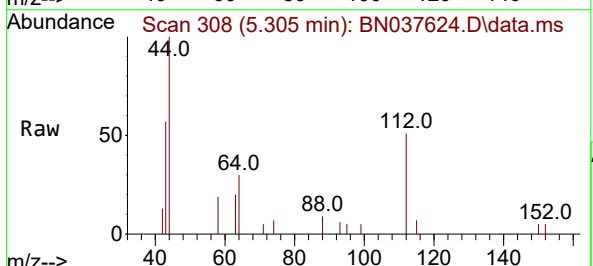


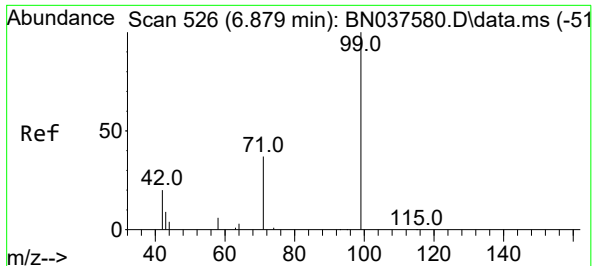
Tgt Ion:152 Resp: 2203
Ion Ratio Lower Upper
152 100
150 158.7 122.2 183.4
115 63.5 49.8 74.6



#4
2-Fluorophenol
Concen: 0.141 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Tgt Ion:112 Resp: 706
Ion Ratio Lower Upper
112 100
64 56.4 44.9 67.3
63 30.7 23.4 35.2

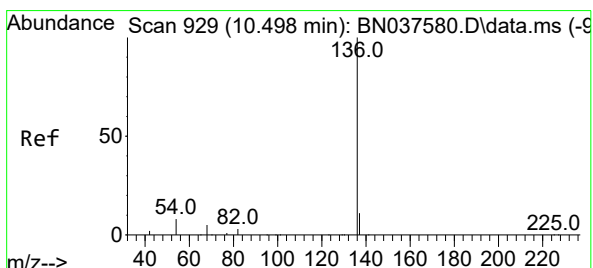
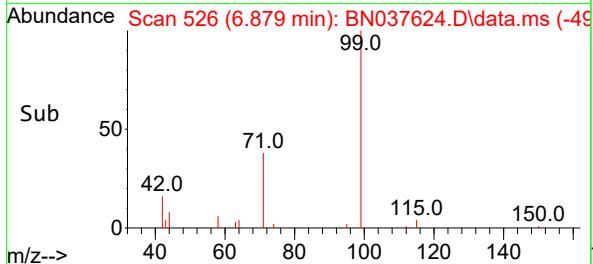
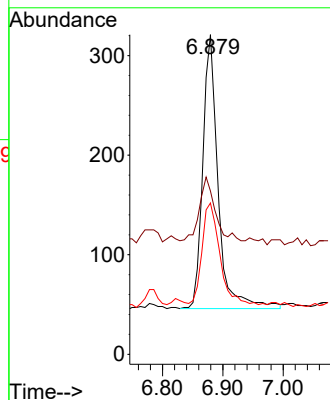
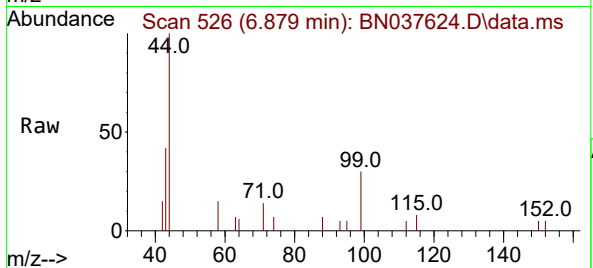




#5
Phenol-d6
Concen: 0.081 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

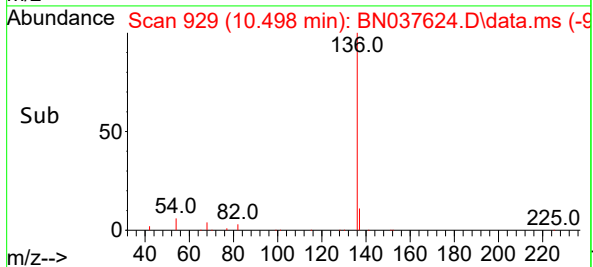
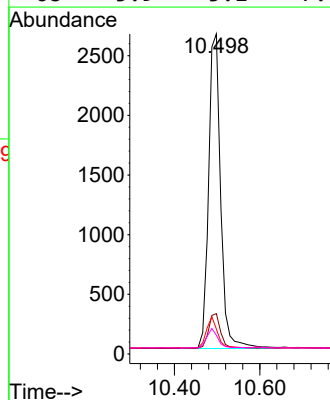
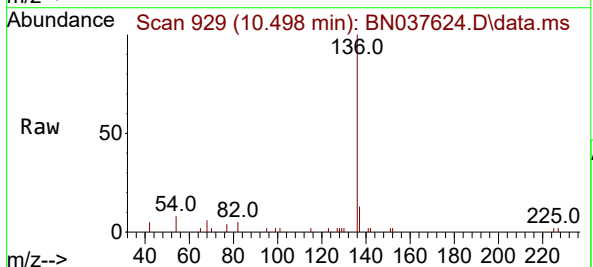
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

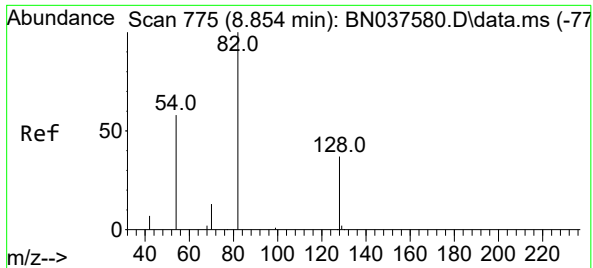
Tgt Ion	Ratio	Lower	Upper
99	100		
42	27.8	18.5	27.7#
71	46.6	28.6	42.8#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. 0.000 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.5	14.3
54	7.8	7.3	10.9
68	5.9	5.1	7.7

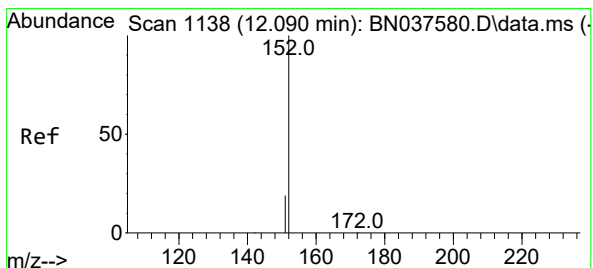
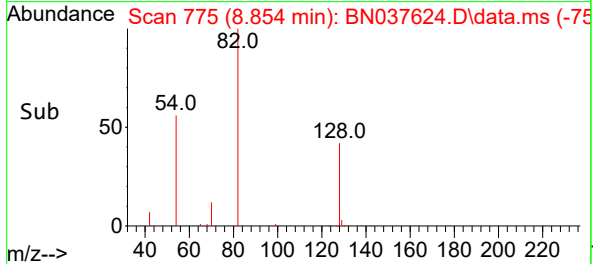
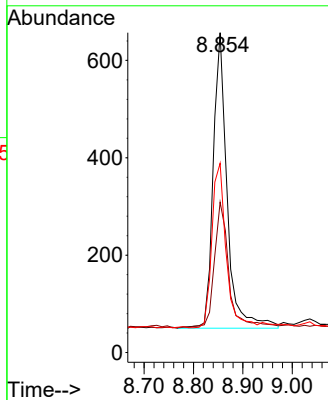
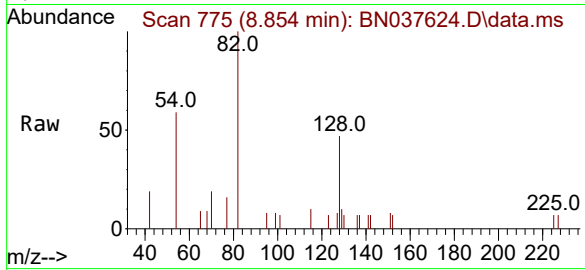




#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.854 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

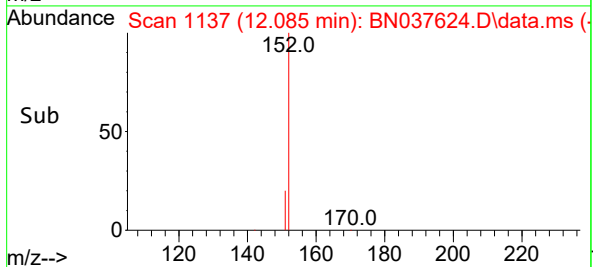
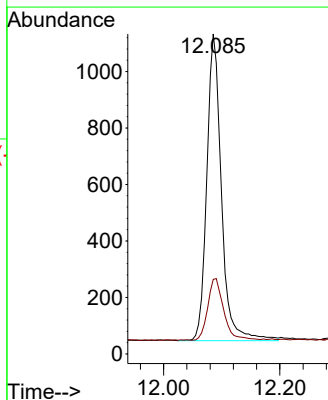
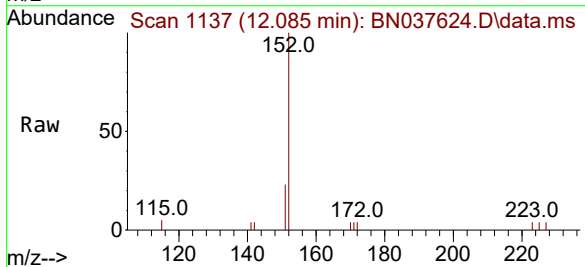
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

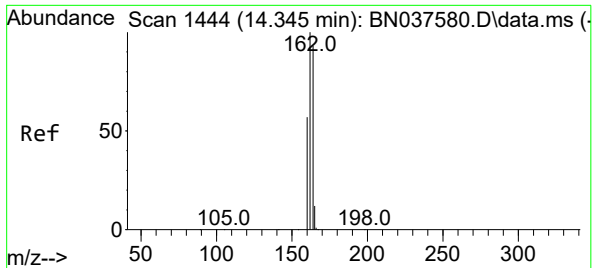
Tgt Ion:	82	Resp:	1190
Ion	Ratio	Lower	Upper
82	100		
128	47.0	32.6	48.8
54	59.2	48.9	73.3



#11
2-Methylnaphthalene-d10
Concen: 0.270 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Tgt Ion:	152	Resp:	1900
Ion	Ratio	Lower	Upper
152	100		
151	21.7	17.3	25.9

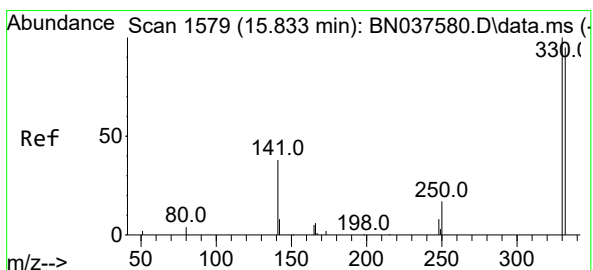
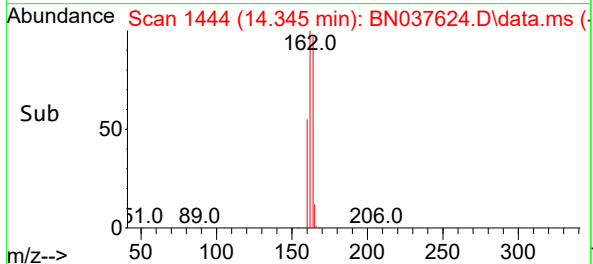
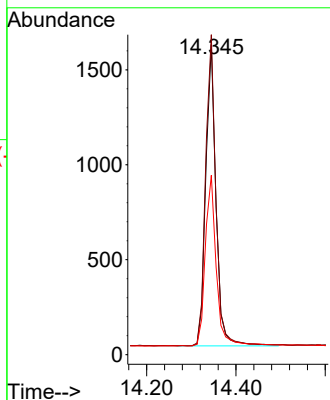
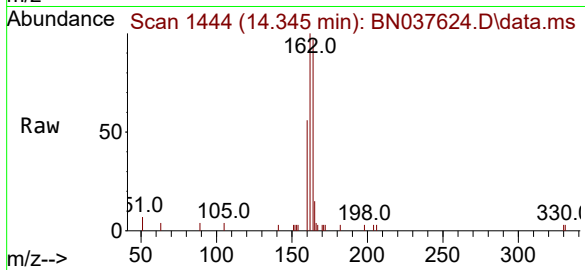




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

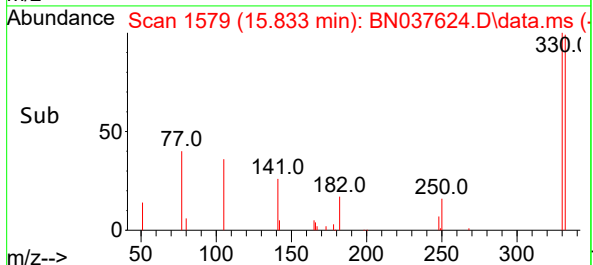
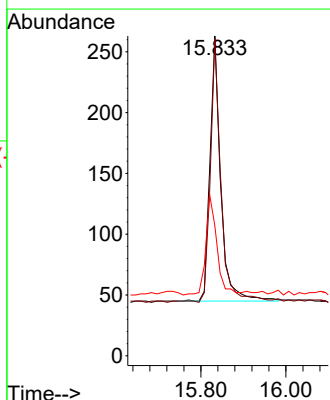
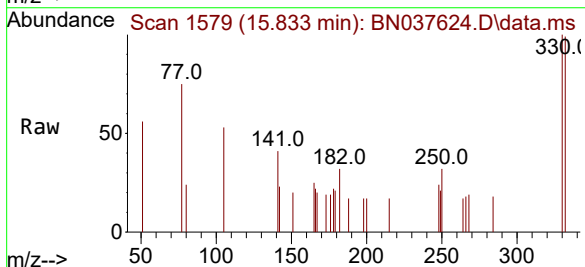
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

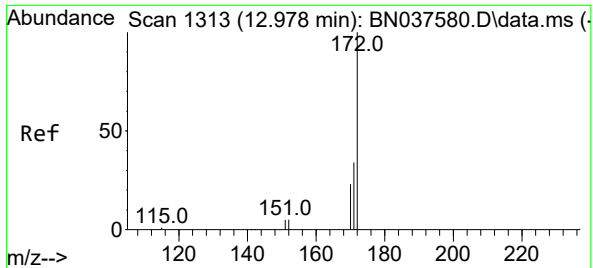
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.2	85.5	128.3
160	57.8	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.347 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.4	116.0
141	39.0	30.9	46.3

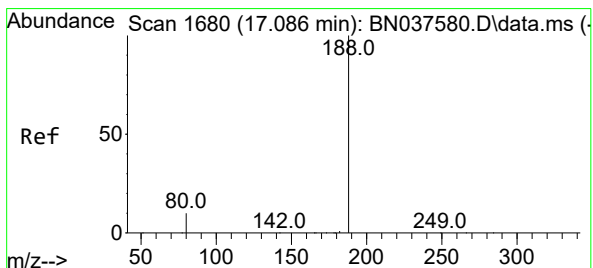
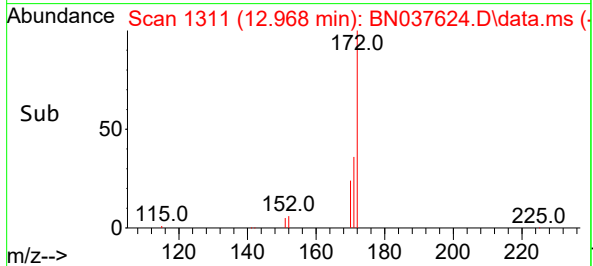
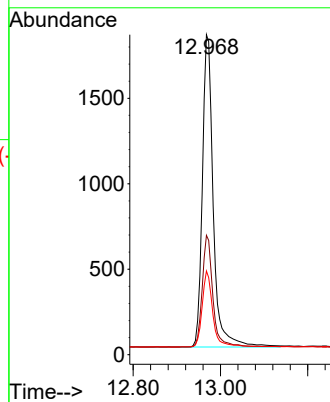
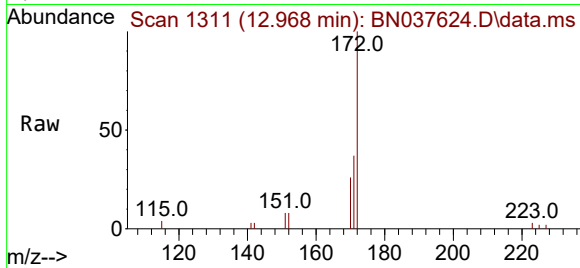




#15
2-Fluorobiphenyl
Concen: 0.299 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

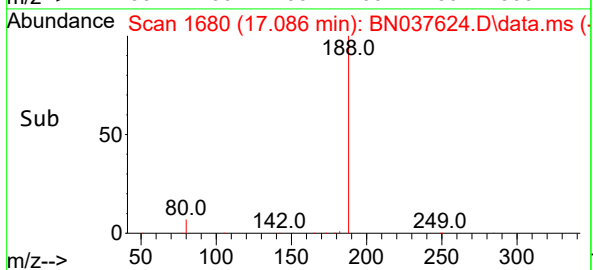
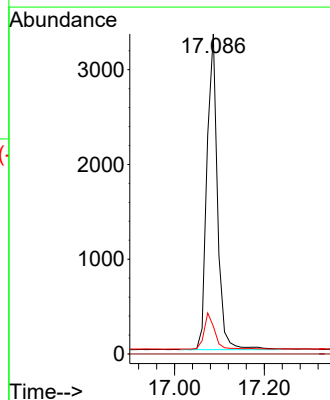
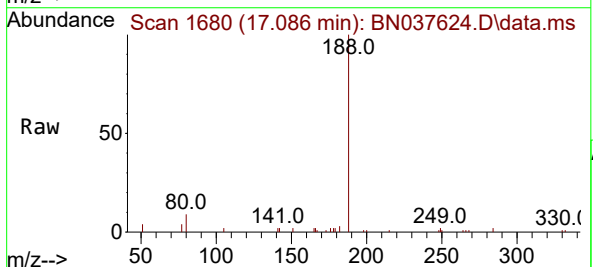
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

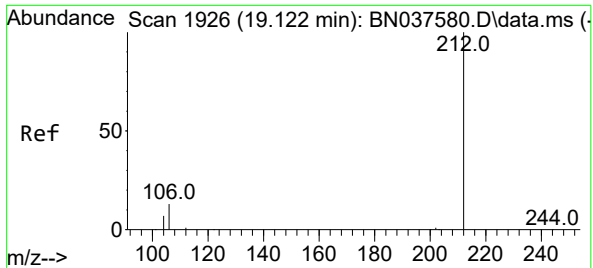
Tgt Ion:	172	Resp:	4349
Ion	Ratio	Lower	Upper
172	100		
171	37.3	28.2	42.4
170	26.2	19.2	28.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Tgt Ion:	188	Resp:	5410
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	9.1	13.7#

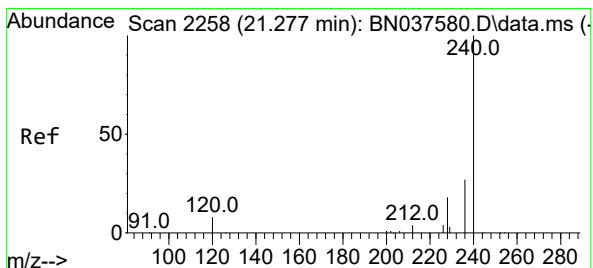
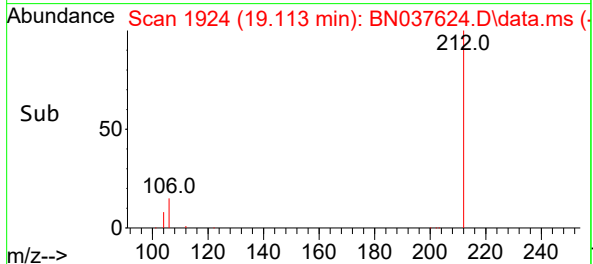
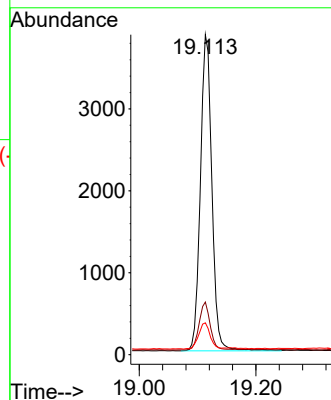
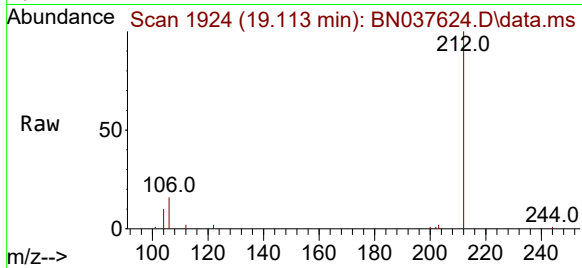




#27
Fluoranthene-d10
Concen: 0.370 ng
RT: 19.113 min Scan# 1911
Delta R.T. -0.009 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

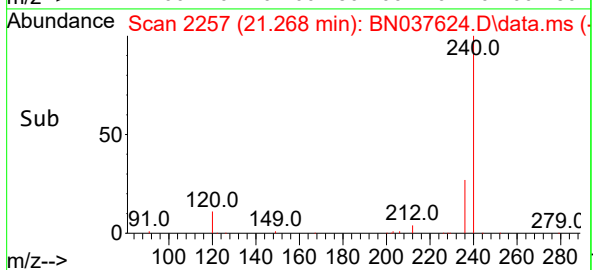
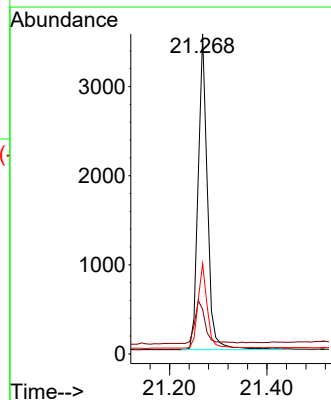
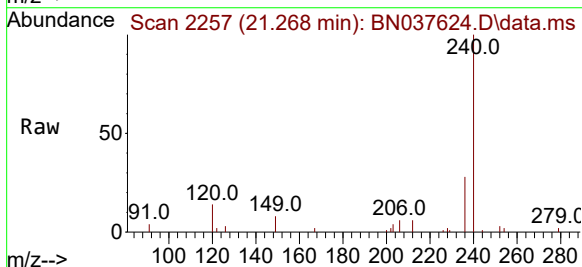
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

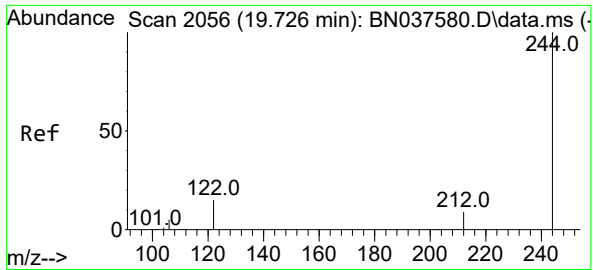
Tgt Ion:212 Resp: 5272
Ion Ratio Lower Upper
212 100
106 15.0 11.5 17.3
104 8.4 6.6 9.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.009 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Tgt Ion:240 Resp: 4670
Ion Ratio Lower Upper
240 100
120 13.9 8.9 13.3#
236 28.2 22.6 33.8

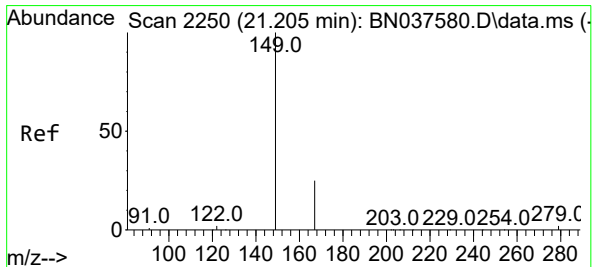
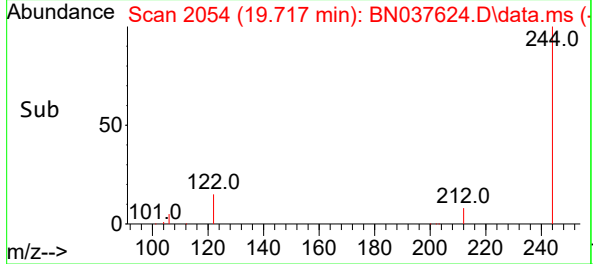
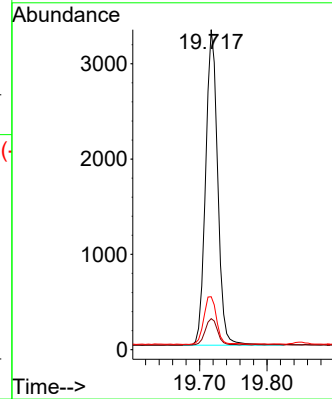
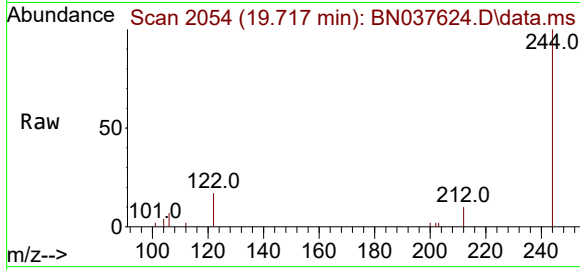




#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

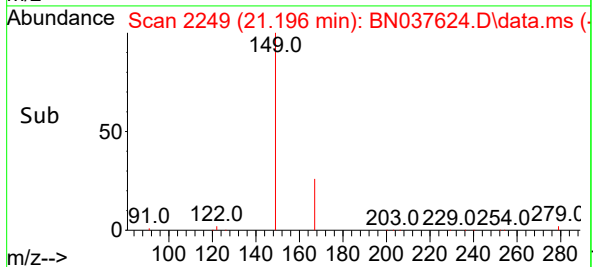
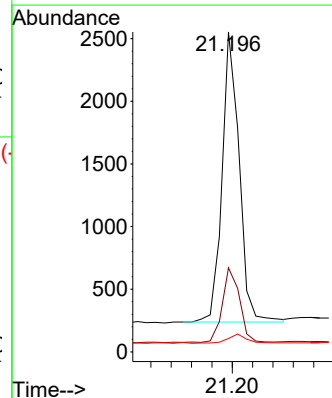
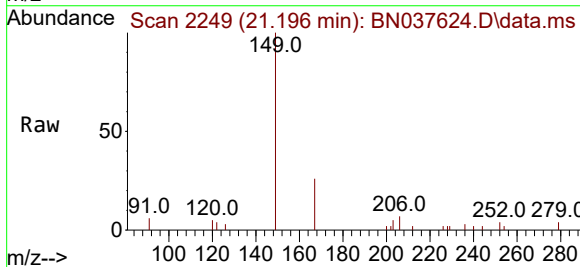
Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814

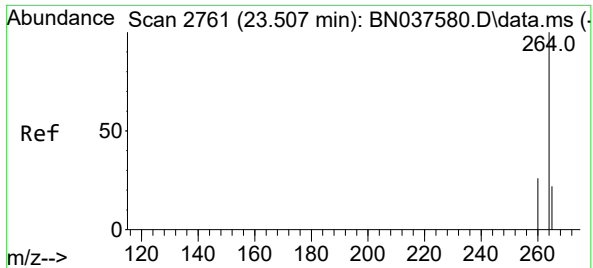
Tgt Ion:244	Resp:	4123
Ion Ratio	Lower	Upper
244	100	
212	9.7	8.2 12.2
122	16.6	13.2 19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.417 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.009 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

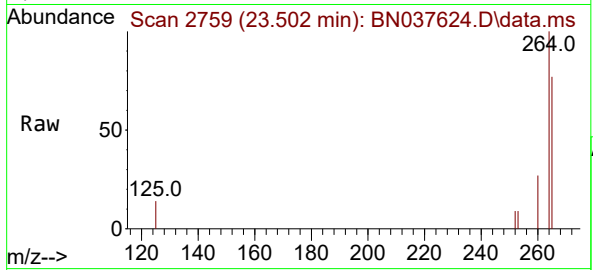
Tgt Ion:149	Resp:	2684
Ion Ratio	Lower	Upper
149	100	
167	25.9	20.5 30.7
279	3.7	2.6 4.0



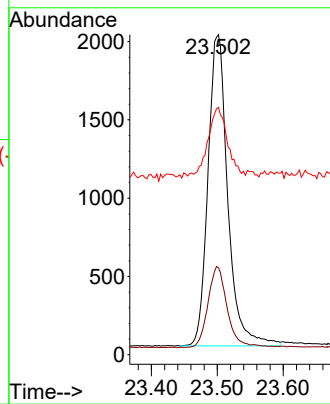
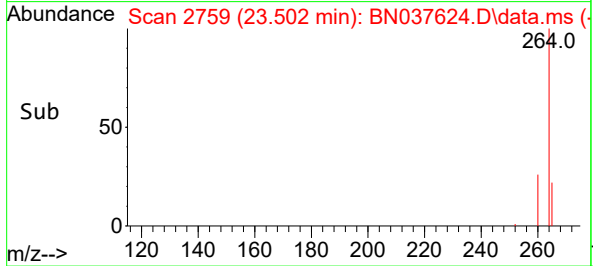


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.502 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037624.D
Acq: 20 Aug 2025 07:49

Instrument :
BNA_N
ClientSampleId :
RW8-SP303-20250814



Tgt Ion:264 Resp: 4150
Ion Ratio Lower Upper
264 100
260 27.2 21.6 32.4
265 77.3 48.2 72.4#





CALIBRATION SUMMARY

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Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN081225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Aug 13 05:00:58 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037578.D 0.2 =BN037579.D 0.4 =BN037580.D 0.8 =BN037581.D 1.6 =BN037582.D 3.2 =BN037583.D 5 =BN037584.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.413	0.395	0.368	0.397	0.375	0.348	0.383	6.08	
3)	n-Nitrosodimet...	0.471	0.488	0.471	0.493	0.503	0.508	0.489	3.19	
4) S	2-Fluorophenol	0.922	0.945	0.888	0.823	0.886	0.906	0.977	0.907	5.41
5) S	Phenol-d6	1.045	1.051	1.044	0.983	1.198	1.117	1.201	1.091	7.66
6)	bis(2-Chloroet...	0.935	0.987	0.976	0.936	1.020	1.008	1.022	0.983	3.75
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.270	0.257	0.262	0.264	0.292	0.301	0.326	0.282	9.03
9)	Naphthalene	1.044	1.050	1.037	1.012	1.089	1.096	1.127	1.065	3.78
10)	Hexachlorobuta...	0.252	0.258	0.262	0.253	0.267	0.264	0.265	0.260	2.22
11) SURR2	Methylnaphth...	0.488	0.492	0.508	0.493	0.543	0.578	0.705	0.544	14.39
12)	2-Methylnaphth...	0.589	0.631	0.635	0.629	0.701	0.731	0.760	0.668	9.39
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.139	0.149	0.156	0.160	0.185	0.203	0.234	0.175	19.39
15) S	2-Fluorobiphenyl	2.226	2.243	2.300	2.251	2.341	2.391	2.440	2.313	3.50
16)	Acenaphthylene	1.740	1.760	1.710	1.653	1.850	1.858	1.980	1.793	6.15
17)	Acenaphthene	1.144	1.150	1.172	1.154	1.283	1.286	1.348	1.220	6.86
18)	Fluorene	1.466	1.510	1.524	1.521	1.686	1.693	1.770	1.596	7.38
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.042	0.046	0.047	0.061	0.070		0.053	22.37	
21)	4-Bromophenyl-...	0.226	0.236	0.234	0.237	0.265	0.271	0.292	0.251	9.77
22)	Hexachlorobenzene	0.360	0.360	0.356	0.332	0.364	0.354	0.370	0.356	3.37
23)	Atrazine	0.127	0.126	0.130	0.134	0.160	0.176		0.142	14.76
24)	Pentachlorophenol		0.108	0.113	0.113	0.139	0.152		0.125	15.36
25)	Phenanthrene	1.146	1.162	1.170	1.138	1.281	1.269	1.347	1.216	6.72
26)	Anthracene	0.950	0.985	0.995	0.988	1.145	1.186	1.286	1.077	11.93
27) SURR	Fluoranthene-d10	0.932	0.966	0.954	0.935	1.050	1.110	1.419	1.052	16.61
28)	Fluoranthene	1.241	1.264	1.299	1.291	1.503	1.533	1.648	1.397	11.53
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.539	1.486	1.464	1.403	1.502	1.520	1.552	1.495	3.38
31) S	Terphenyl-d14	0.814	0.801	0.796	0.763	0.833	0.853	0.901	0.823	5.45
32)	Benzo(a)anthra...	1.266	1.275	1.263	1.253	1.351	1.458	1.487	1.336	7.40
33)	Chrysene	1.547	1.515	1.433	1.379	1.511	1.489	1.551	1.489	4.21
34)	Bis(2-ethylhex...	0.518	0.522	0.483	0.522	0.593	0.671	0.551	12.47	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN081225.M

36)	Indeno(1,2,3-c...	1.446	1.462	1.612	1.568	1.816	1.883	2.011	1.686	13.01
37)	Benzo(b)fluora...	1.351	1.375	1.338	1.432	1.615	1.674	1.825	1.516	12.52
38)	Benzo(k)fluora...	1.597	1.580	1.651	1.628	1.821	1.797	1.898	1.710	7.36
39) C	Benzo(a)pyrene	1.146	1.136	1.149	1.157	1.322	1.382	1.508	1.257	11.77
40)	Dibenzo(a,h)an...	1.023	1.118	1.222	1.215	1.439	1.516	1.621	1.308	16.85
41)	Benzo(g,h,i)pe...	1.207	1.274	1.262	1.261	1.467	1.532	1.643	1.378	12.17

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037578.D
 Acq On : 12 Aug 2025 16:26
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Aug 13 04:47:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

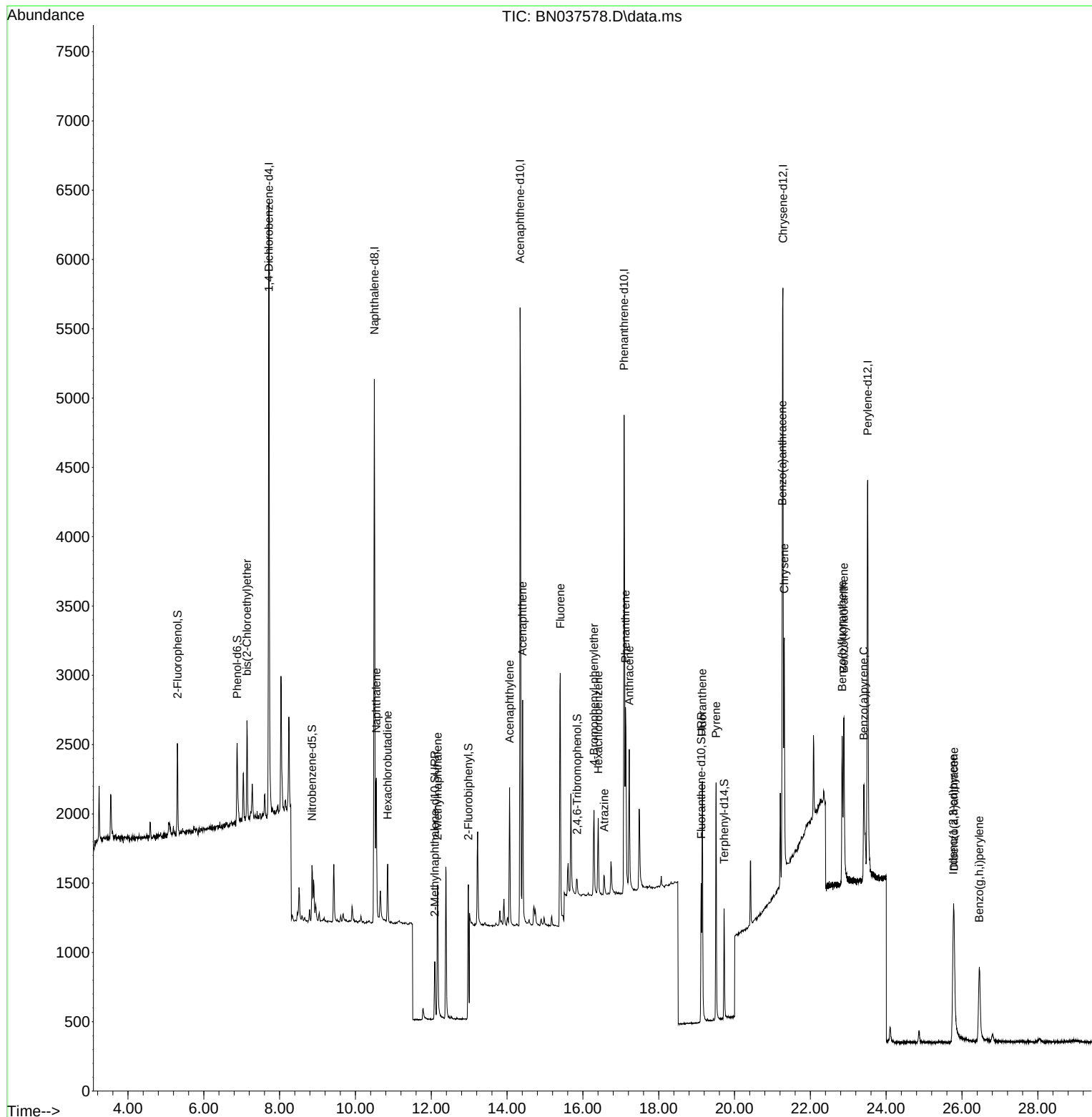
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2217	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5472	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2625	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5296	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4146	0.400	ng	# 0.00
35) Perylene-d12	23.514	264	4132	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	511	0.102	ng	0.00
5) Phenol-d6	6.879	99	579	0.096	ng	0.00
8) Nitrobenzene-d5	8.854	82	369	0.096	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	667	0.090	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	91	0.079	ng	0.01
15) 2-Fluorobiphenyl	12.978	172	1461	0.096	ng	0.00
27) Fluoranthene-d10	19.123	212	1234	0.089	ng	0.00
31) Terphenyl-d14	19.726	244	844	0.099	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.139	93	518	0.095	ng	Qvalue 94
9) Naphthalene	10.552	128	1428	0.098	ng	# 89
10) Hexachlorobutadiene	10.851	225	345	0.097	ng	# 99
12) 2-Methylnaphthalene	12.167	142	806	0.088	ng	94
16) Acenaphthylene	14.067	152	1142	0.097	ng	99
17) Acenaphthene	14.409	154	751	0.094	ng	95
18) Fluorene	15.403	166	962	0.092	ng	99
21) 4-Bromophenyl-phenylether	16.292	248	299	0.090	ng	90
22) Hexachlorobenzene	16.404	284	476	0.101	ng	99
23) Atrazine	16.565	200	168	0.089	ng	# 76
25) Phenanthrene	17.124	178	1517	0.094	ng	99
26) Anthracene	17.223	178	1258	0.088	ng	100
28) Fluoranthene	19.150	202	1643	0.089	ng	99
30) Pyrene	19.513	202	1595	0.103	ng	100
32) Benzo(a)anthracene	21.259	228	1312	0.095	ng	94
33) Chrysene	21.313	228	1603	0.104	ng	95
36) Indeno(1,2,3-cd)pyrene	25.771	276	1494	0.086	ng	99
37) Benzo(b)fluoranthene	22.841	252	1396	0.089	ng	# 74
38) Benzo(k)fluoranthene	22.885	252	1650	0.093	ng	# 72
39) Benzo(a)pyrene	23.411	252	1184	0.091	ng	# 64
40) Dibenzo(a,h)anthracene	25.791	278	1057	0.078	ng	# 72
41) Benzo(g,h,i)perylene	26.458	276	1247	0.088	ng	# 84

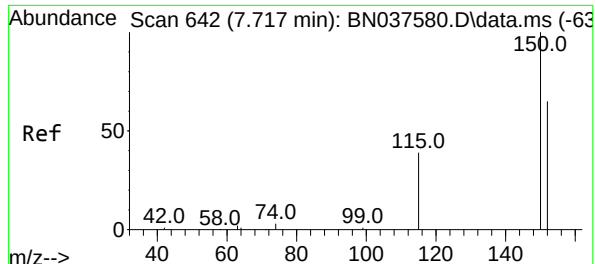
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Data File : BN037578.D
Acq On : 12 Aug 2025 16:26
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Aug 13 04:47:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

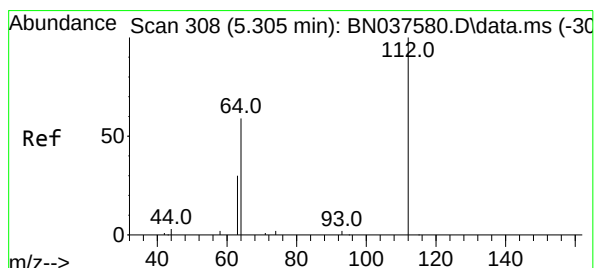
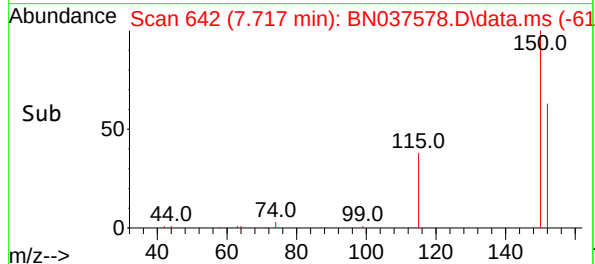
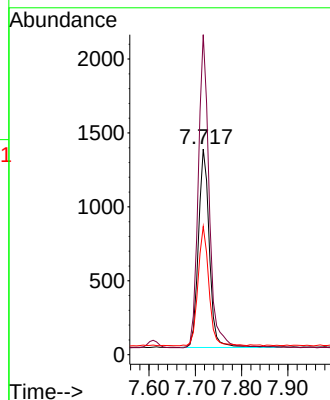
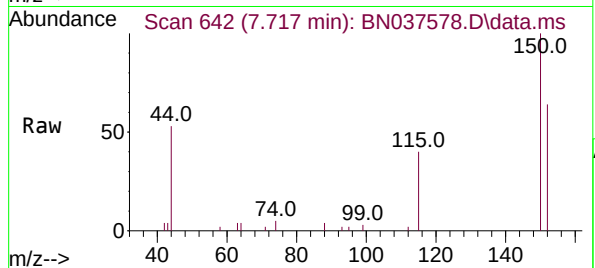




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 642
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

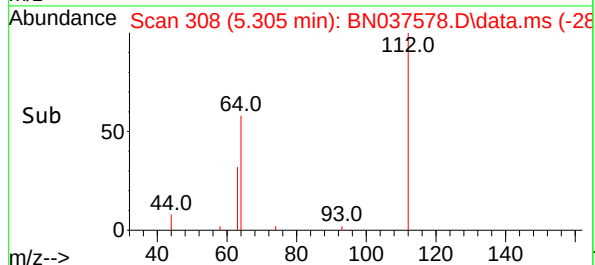
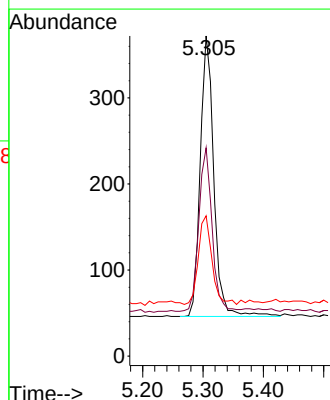
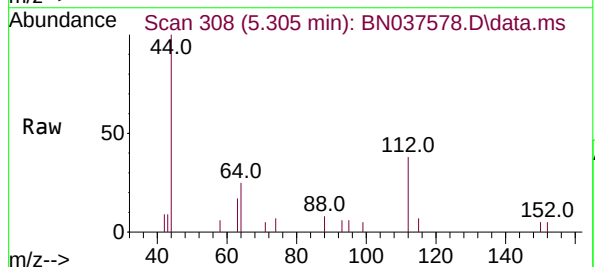
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

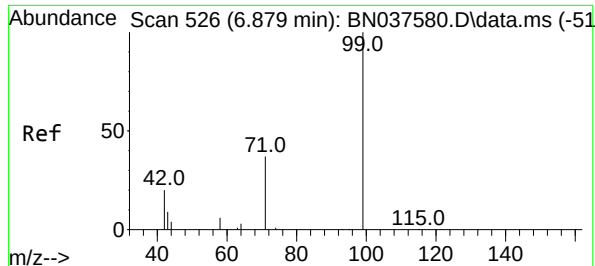
Tgt Ion:152 Resp: 2217
Ion Ratio Lower Upper
152 100
150 155.6 122.2 183.4
115 62.3 49.8 74.6



#4
2-Fluorophenol
Concen: 0.102 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:112 Resp: 511
Ion Ratio Lower Upper
112 100
64 56.6 44.9 67.3
63 31.3 23.4 35.2

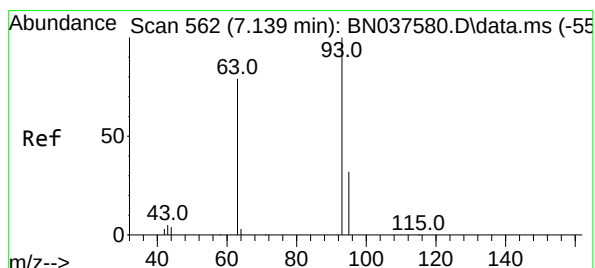
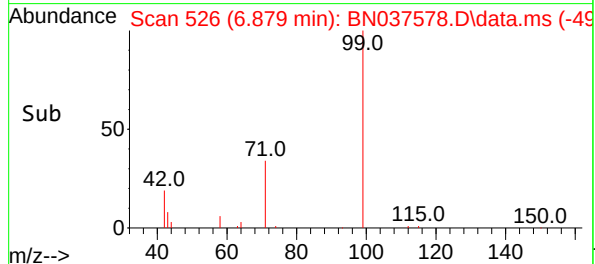
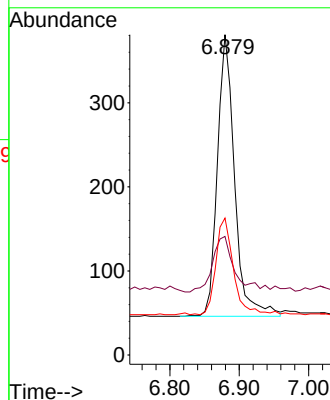
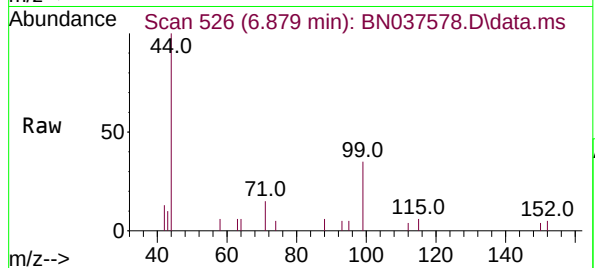




#5
Phenol-d6
Concen: 0.096 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

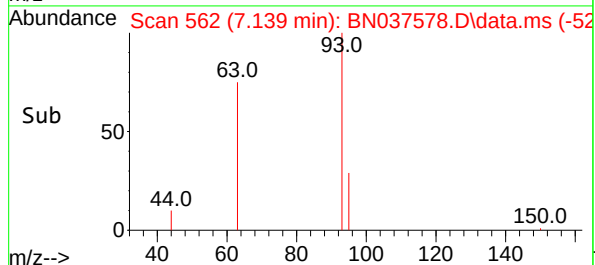
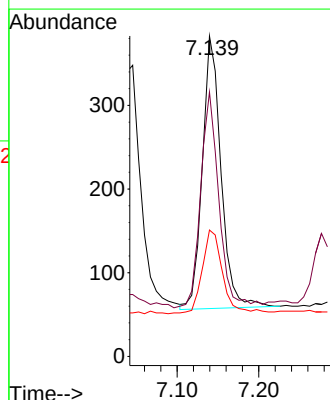
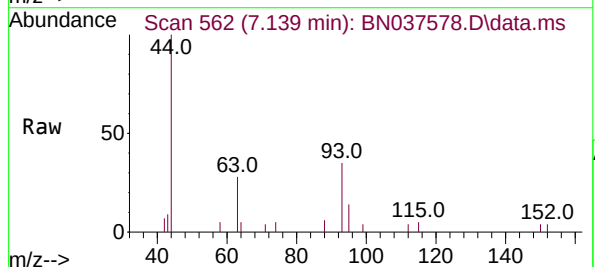
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

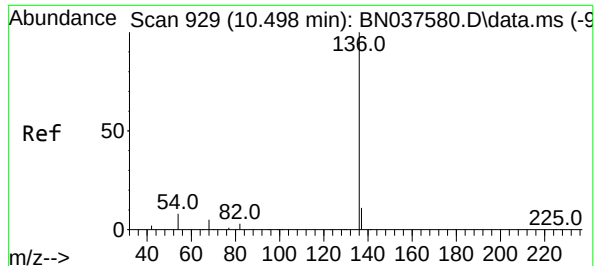
Tgt Ion: 99 Resp: 579
Ion Ratio Lower Upper
99 100
42 26.9 18.5 27.7
71 35.4 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.095 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion: 93 Resp: 518
Ion Ratio Lower Upper
93 100
63 78.0 58.0 87.0
95 33.8 24.9 37.3

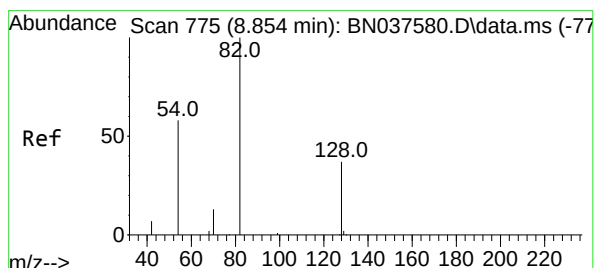
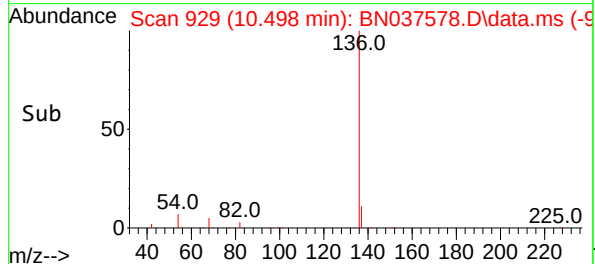
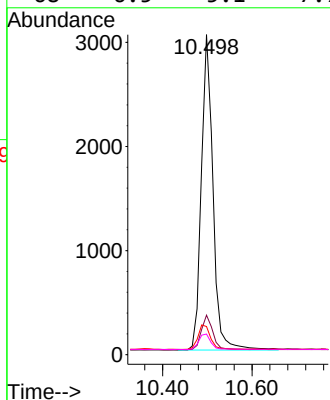
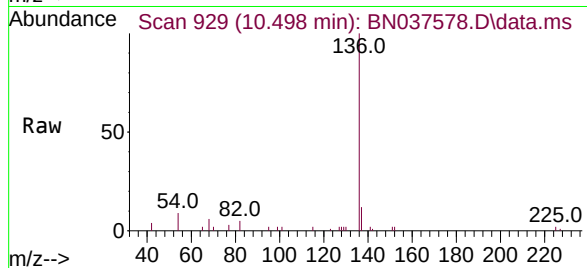




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

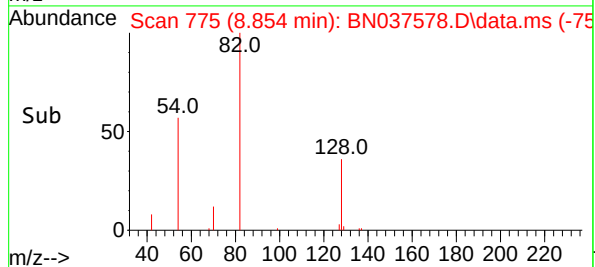
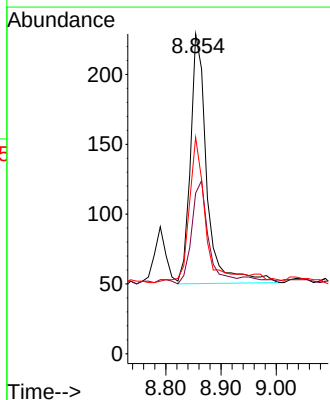
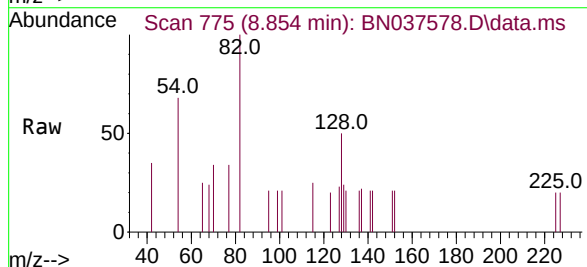
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

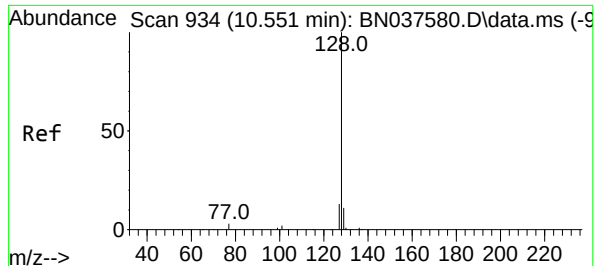
Tgt Ion:	136	Resp:	5472
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.5	14.3
54	8.8	7.3	10.9
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:	82	Resp:	369
Ion	Ratio	Lower	Upper
82	100		
128	50.2	32.6	48.8#
54	67.7	48.9	73.3

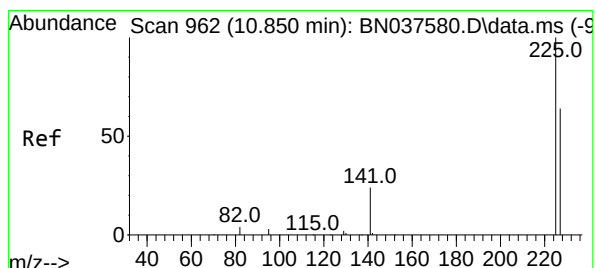
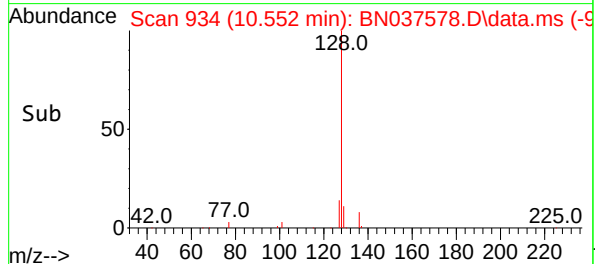
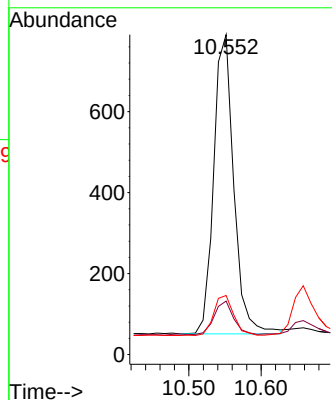
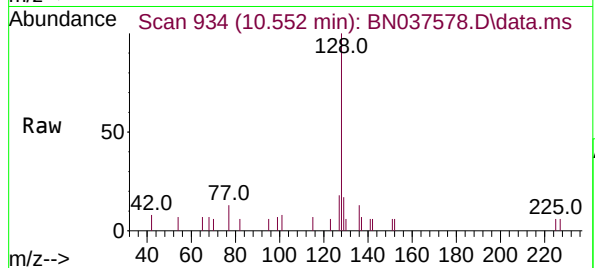




#9
Naphthalene
Concen: 0.098 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

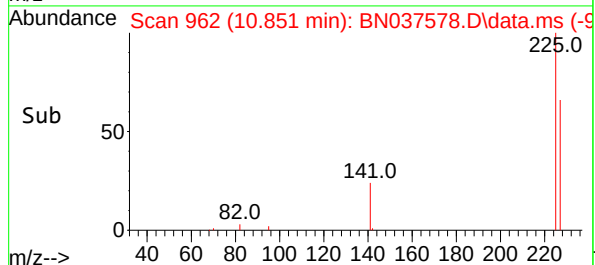
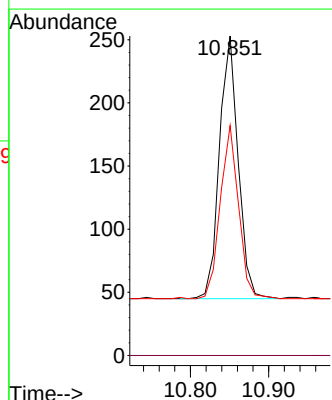
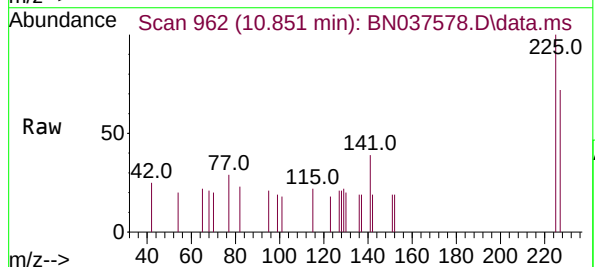
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

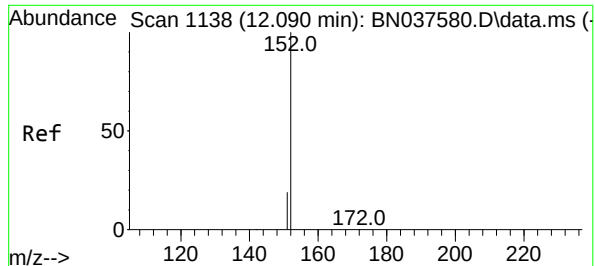
Tgt Ion:128 Resp: 1428
Ion Ratio Lower Upper
128 100
129 16.7 9.8 14.6#
127 18.5 11.5 17.3#



#10
Hexachlorobutadiene
Concen: 0.097 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:225 Resp: 345
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 50.8 76.2

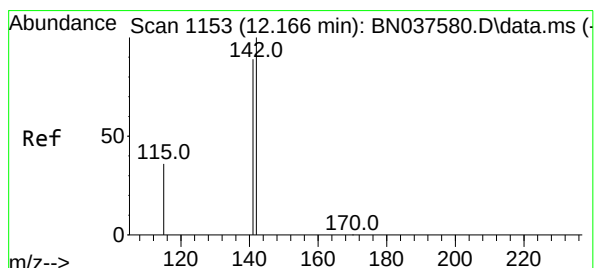
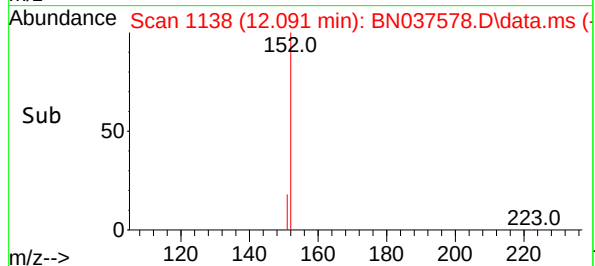
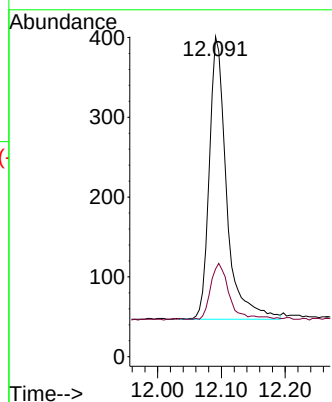
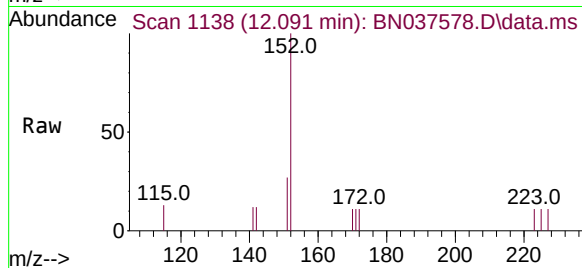




#11
2-Methylnaphthalene-d10
Concen: 0.090 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

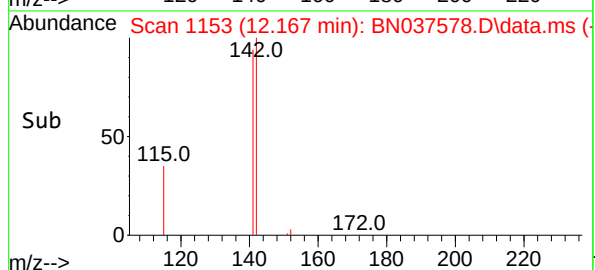
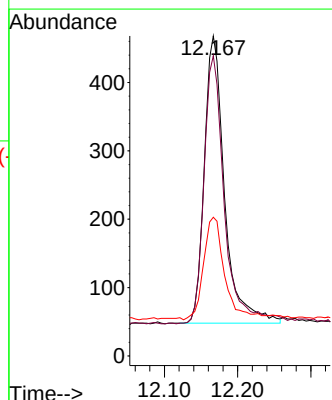
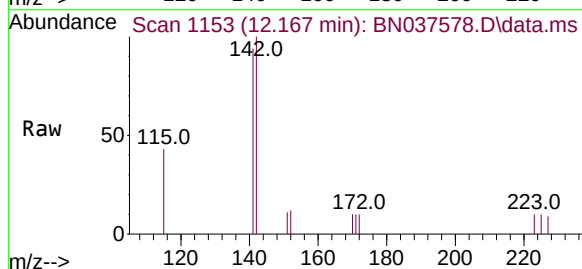
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

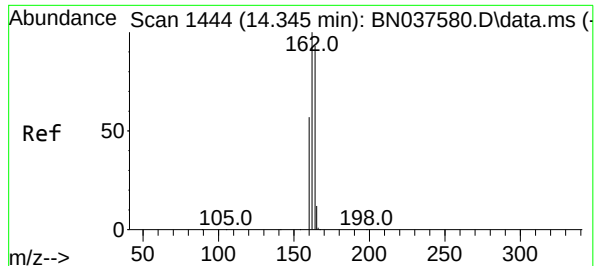
Tgt Ion:152 Resp: 667
Ion Ratio Lower Upper
152 100
151 21.1 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.088 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:142 Resp: 806
Ion Ratio Lower Upper
142 100
141 93.8 71.4 107.0
115 43.4 30.2 45.4

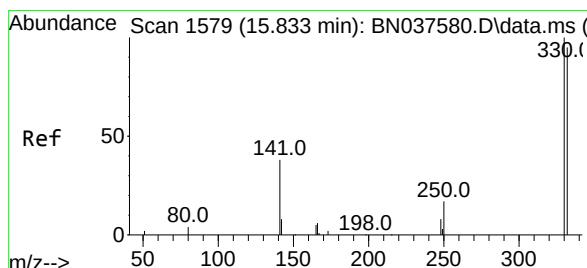
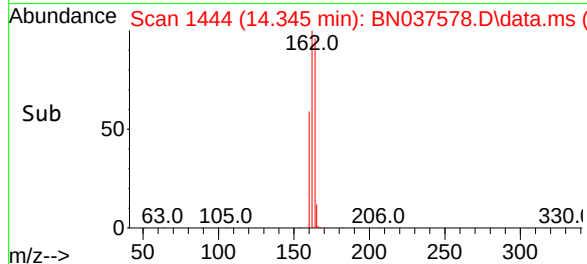
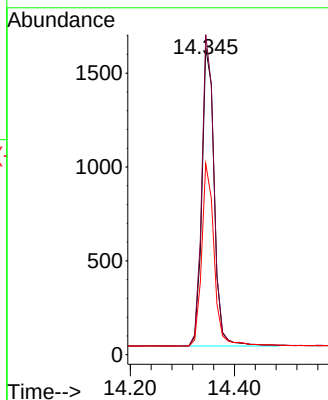
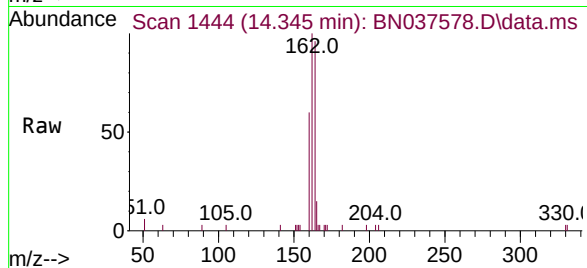




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

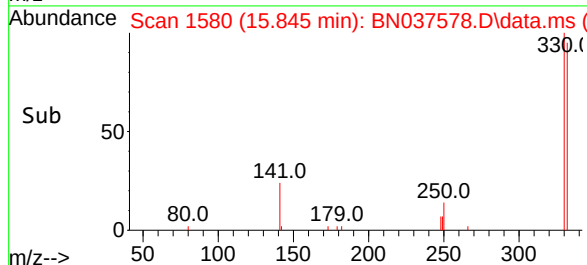
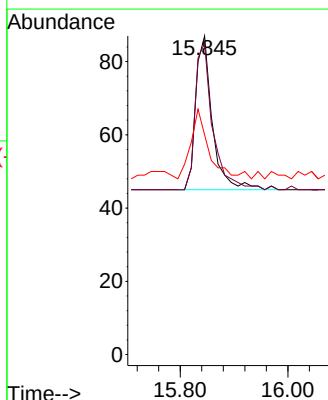
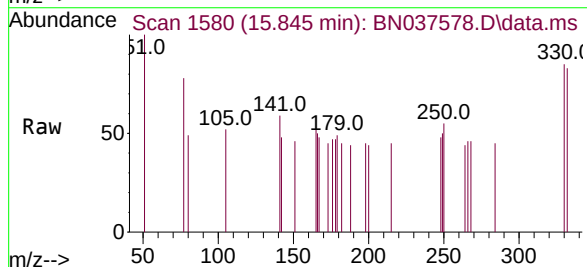
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

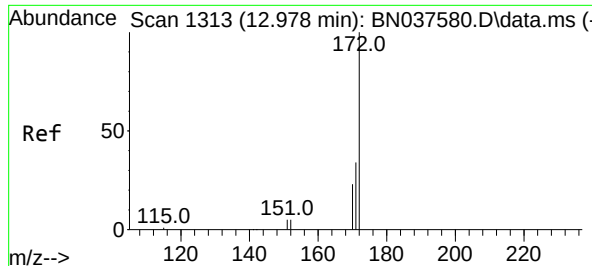
Tgt Ion:164 Resp: 2625
Ion Ratio Lower Upper
164 100
162 104.3 85.5 128.3
160 62.3 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.079 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.013 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:330 Resp: 91
Ion Ratio Lower Upper
330 100
332 101.1 77.4 116.0
141 47.3 30.9 46.3#

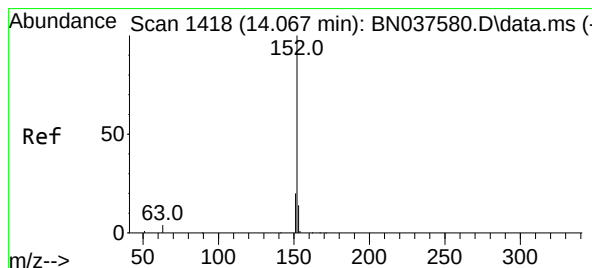
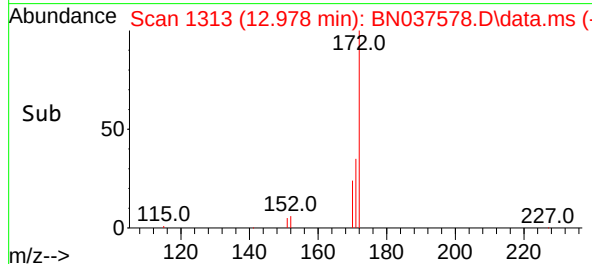
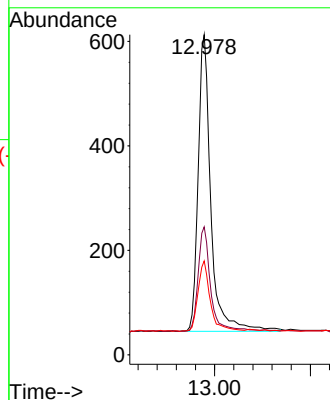
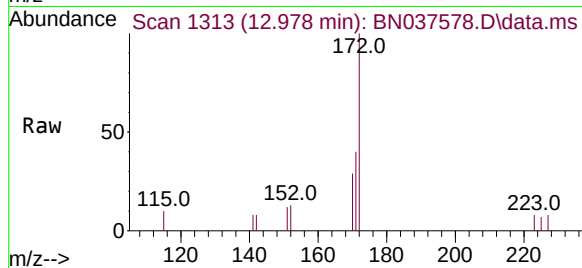




#15
2-Fluorobiphenyl
Concen: 0.096 ng
RT: 12.978 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

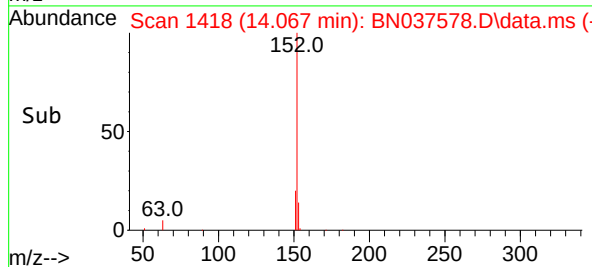
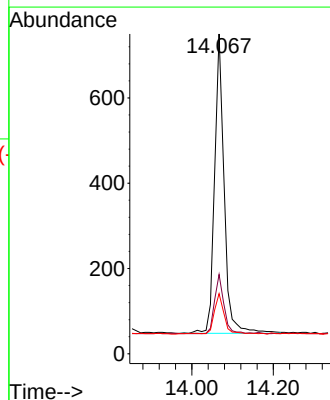
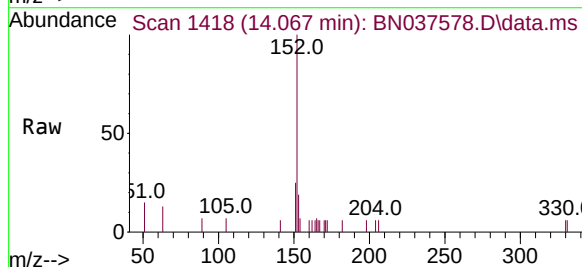
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

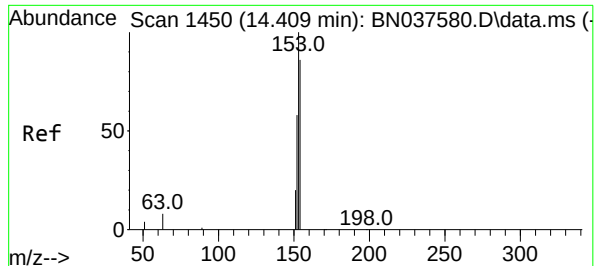
Tgt Ion	Ratio	Lower	Upper
172	100		
171	40.0	28.2	42.4
170	29.4	19.2	28.8



#16
Acenaphthylene
Concen: 0.097 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.1	24.1
153	13.6	10.7	16.1





#17

Acenaphthene

Concen: 0.094 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

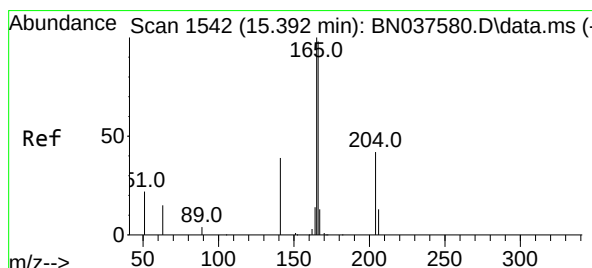
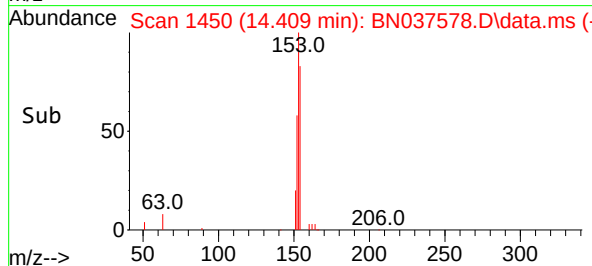
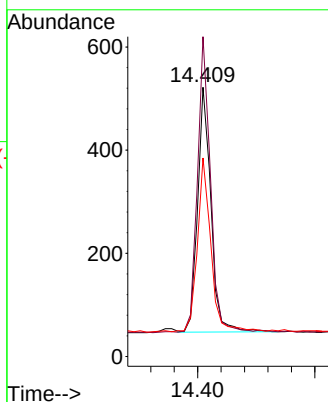
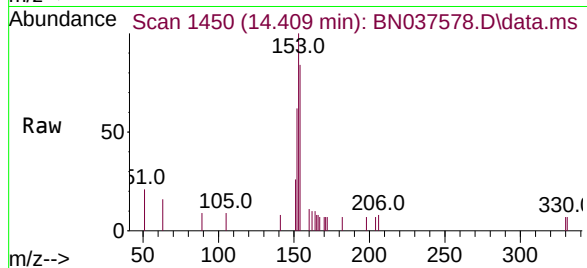
Tgt Ion:154 Resp: 751

Ion Ratio Lower Upper

154 100

153 118.8 90.6 135.8

152 71.6 54.9 82.3



#18

Fluorene

Concen: 0.092 ng

RT: 15.403 min Scan# 1543

Delta R.T. 0.011 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

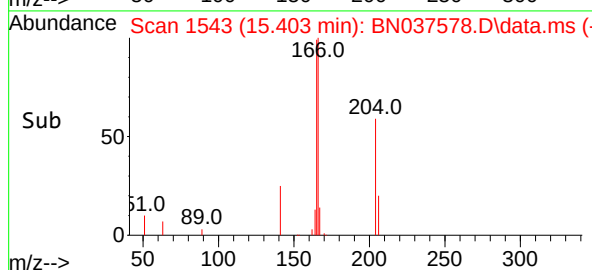
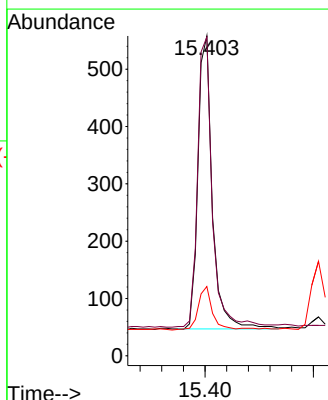
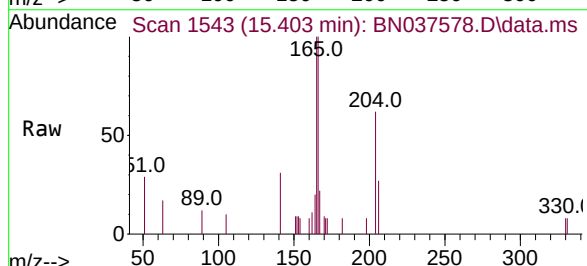
Tgt Ion:166 Resp: 962

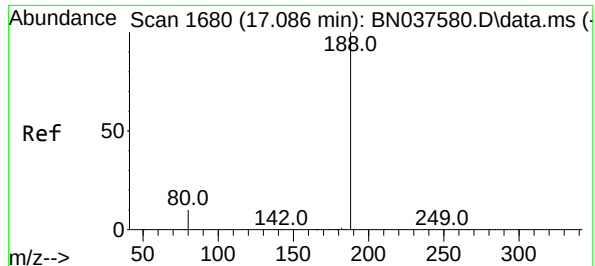
Ion Ratio Lower Upper

166 100

165 99.8 78.9 118.3

167 14.2 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

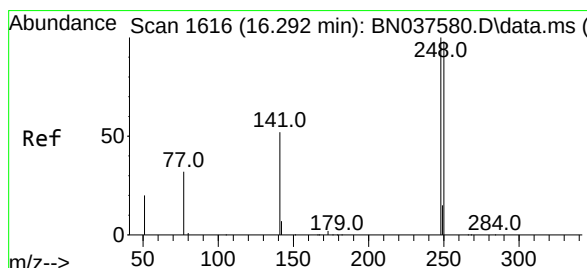
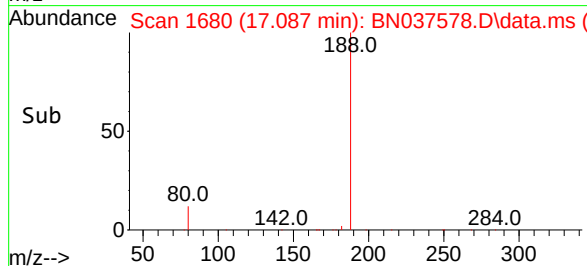
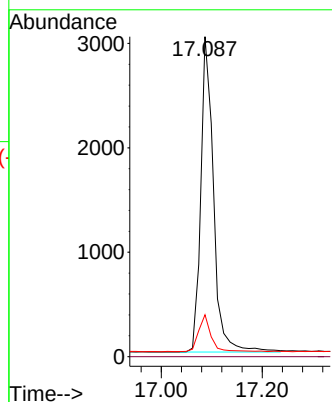
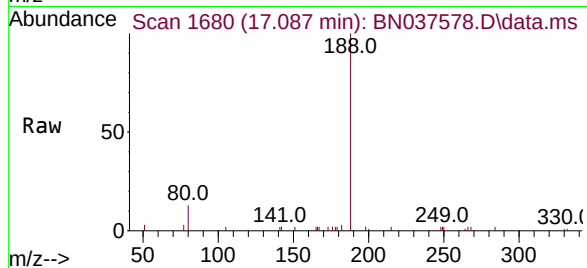
Tgt Ion:188 Resp: 5296

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 0.090 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

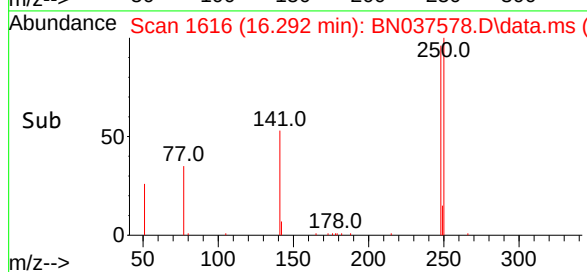
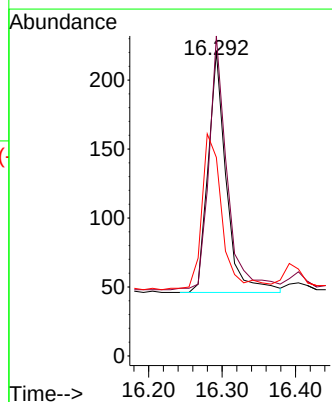
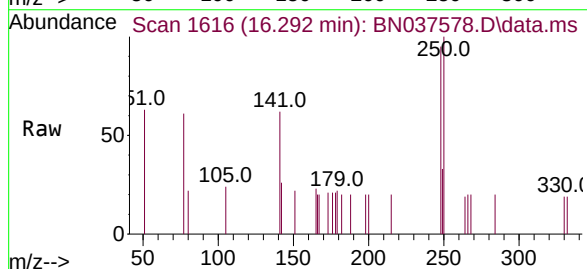
Tgt Ion:248 Resp: 299

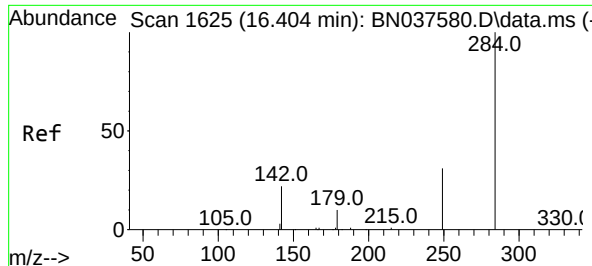
Ion Ratio Lower Upper

248 100

250 105.0 78.6 118.0

141 65.2 43.7 65.5





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

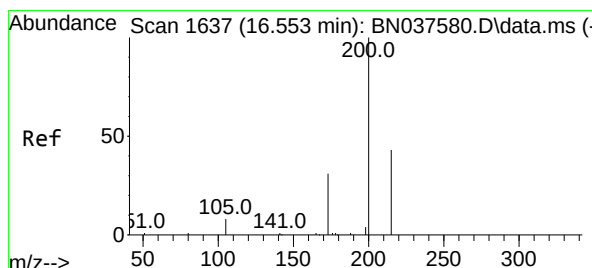
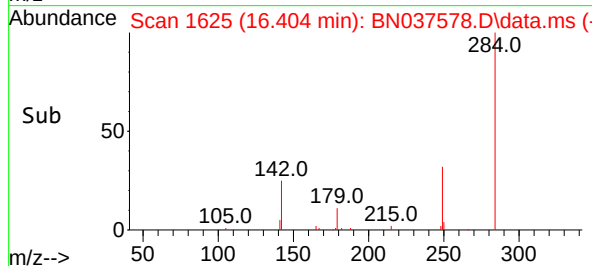
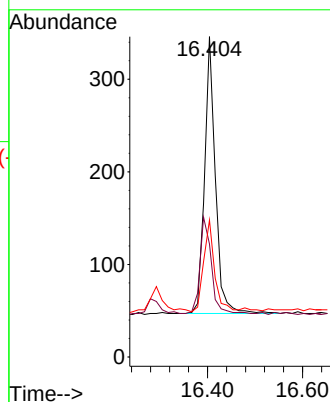
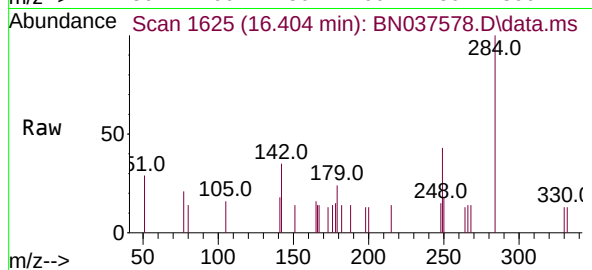
Tgt Ion:284 Resp: 476

Ion Ratio Lower Upper

284 100

142 36.8 29.8 44.6

249 33.4 26.0 39.0



#23

Atrazine

Concen: 0.089 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.012 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

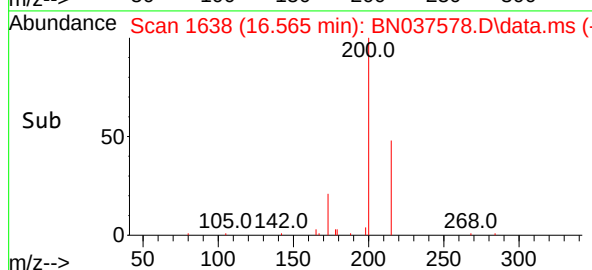
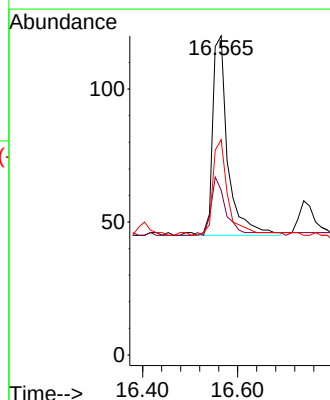
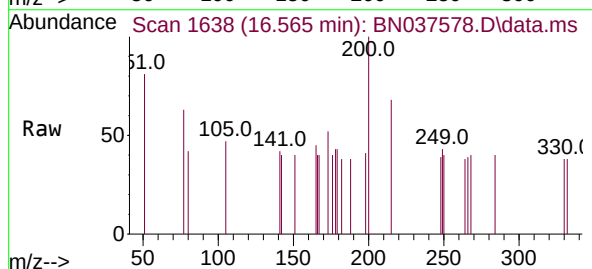
Tgt Ion:200 Resp: 168

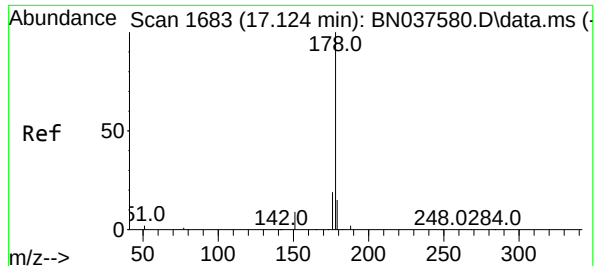
Ion Ratio Lower Upper

200 100

173 51.7 31.0 46.4#

215 67.5 39.4 59.0#

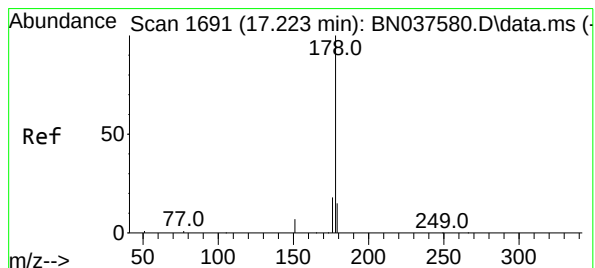
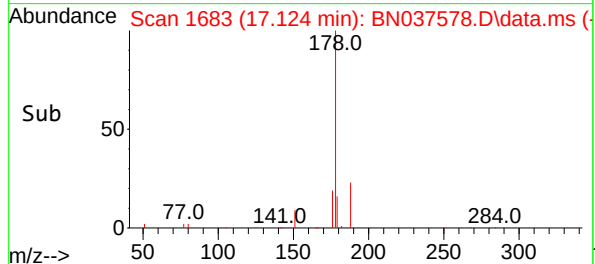
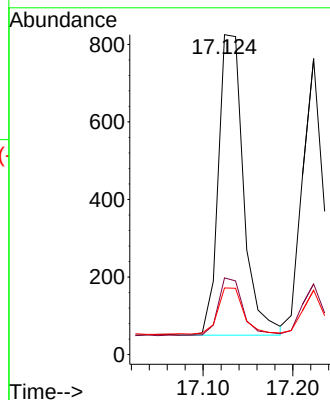
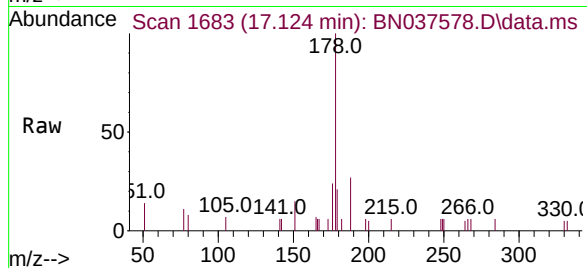




#25
Phenanthrene
Concen: 0.094 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

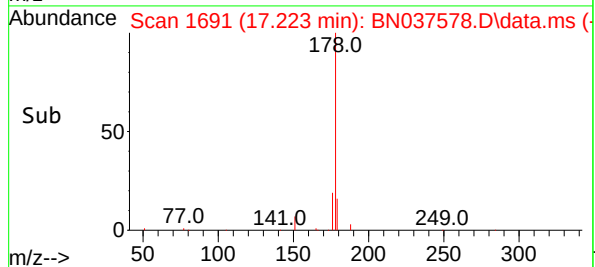
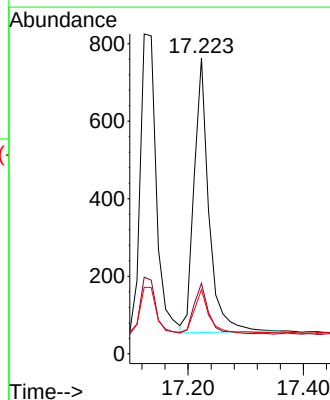
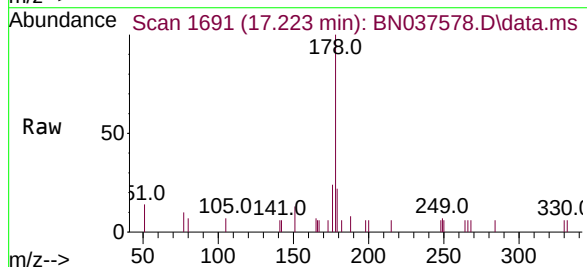
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

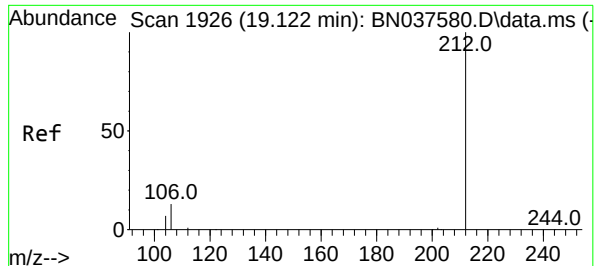
Tgt Ion:178 Resp: 1517
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 16.0 12.3 18.5



#26
Anthracene
Concen: 0.088 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:178 Resp: 1258
Ion Ratio Lower Upper
178 100
176 18.3 14.7 22.1
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.089 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

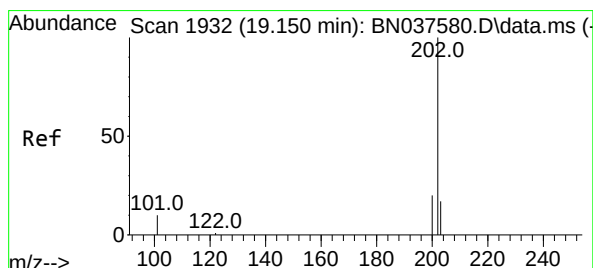
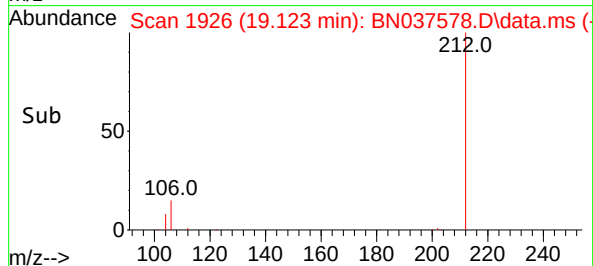
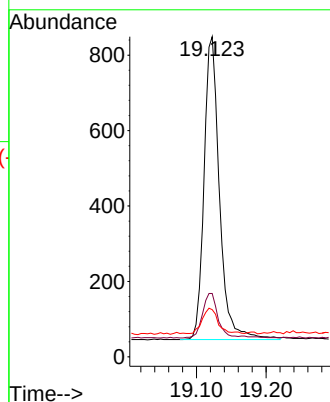
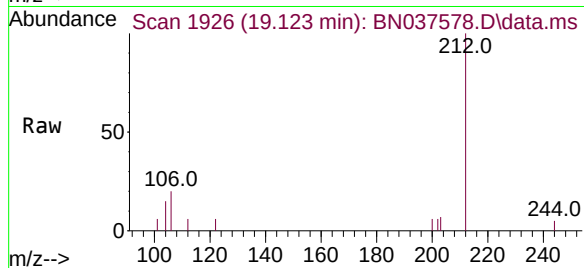
Tgt Ion:212 Resp: 1234

Ion Ratio Lower Upper

212 100

106 14.6 11.5 17.3

104 8.6 6.6 9.8



#28

Fluoranthene

Concen: 0.089 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

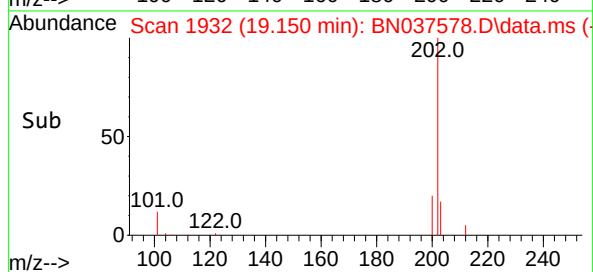
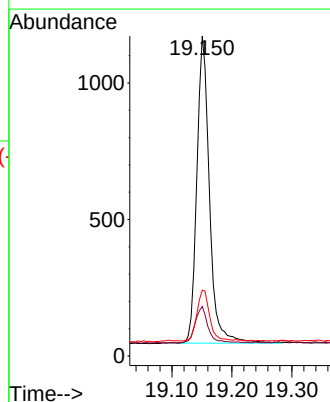
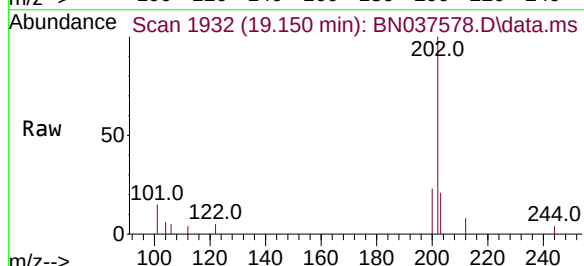
Tgt Ion:202 Resp: 1643

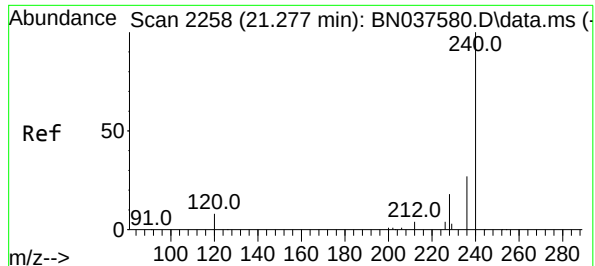
Ion Ratio Lower Upper

202 100

101 11.9 9.0 13.6

203 16.7 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

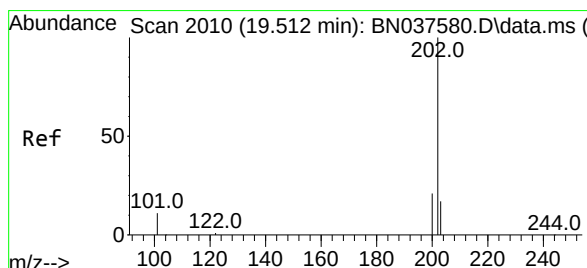
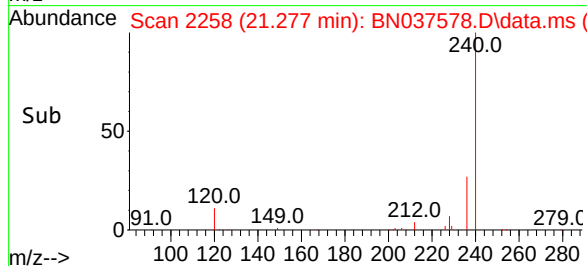
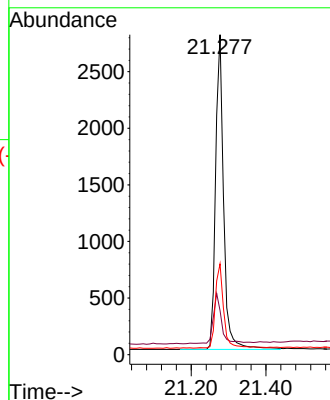
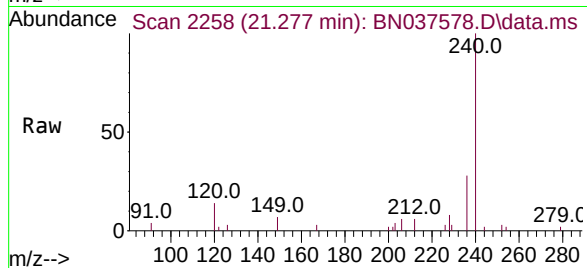
Tgt Ion:240 Resp: 4146

Ion Ratio Lower Upper

240 100

120 13.8 8.9 13.3#

236 28.4 22.6 33.8



#30

Pyrene

Concen: 0.103 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

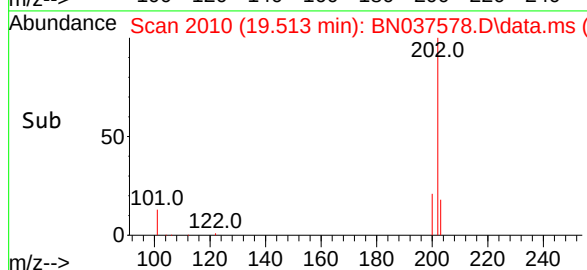
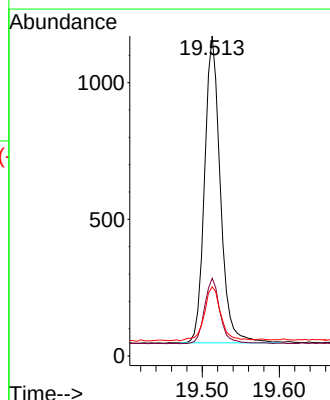
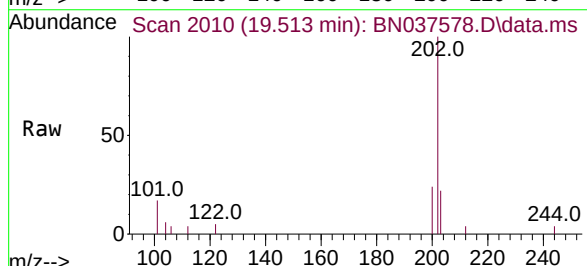
Tgt Ion:202 Resp: 1595

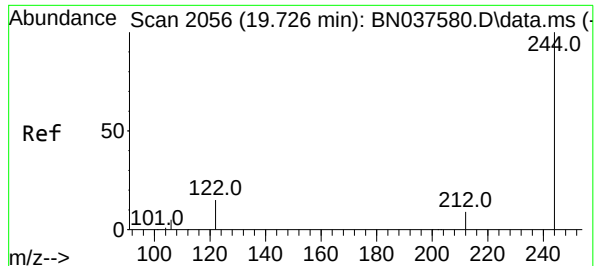
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

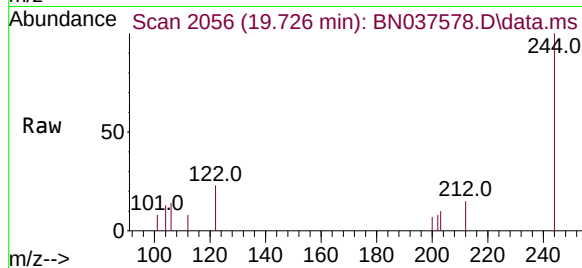
203 18.0 14.3 21.5



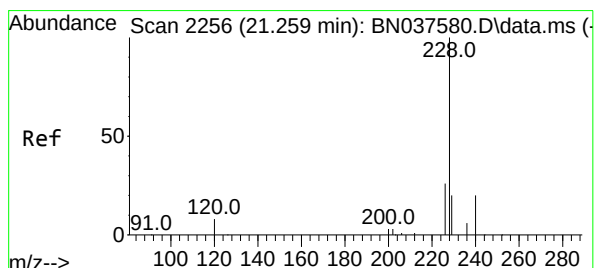
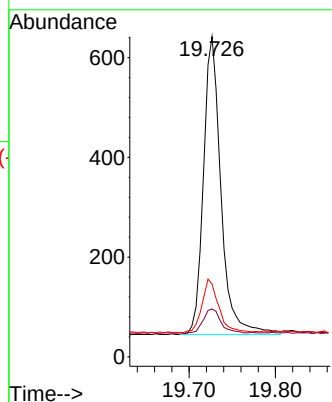


#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

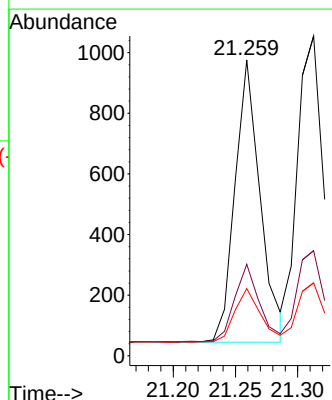
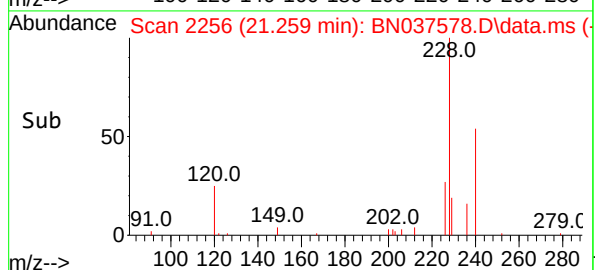
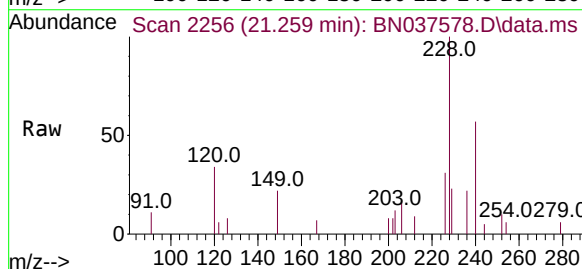


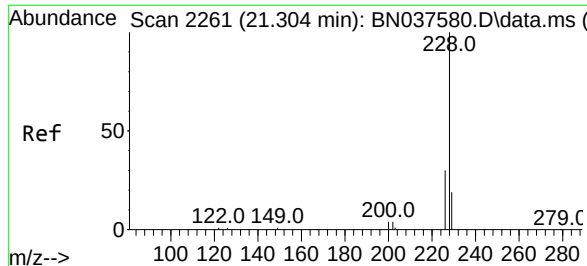
Tgt Ion:244 Resp: 844
Ion Ratio Lower Upper
244 100
212 15.0 8.2 12.2#
122 22.7 13.2 19.8#



#32
Benzo(a)anthracene
Concen: 0.095 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Tgt Ion:228 Resp: 1312
Ion Ratio Lower Upper
228 100
226 30.9 21.5 32.3
229 22.7 16.5 24.7





#33

Chrysene

Concen: 0.104 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

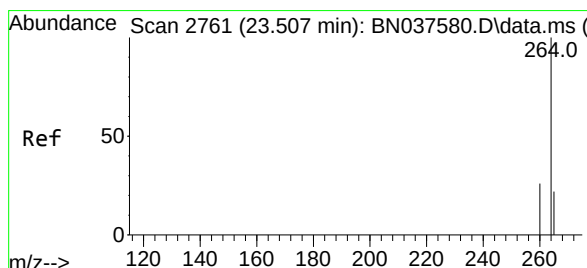
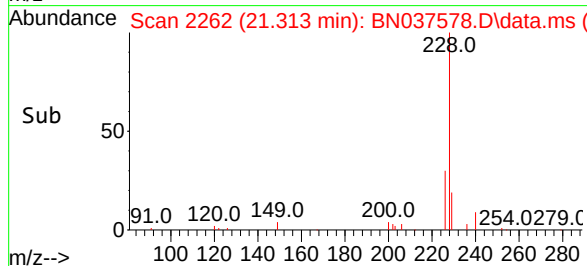
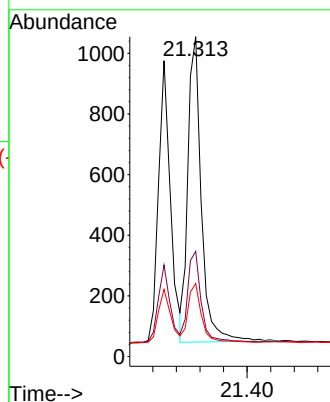
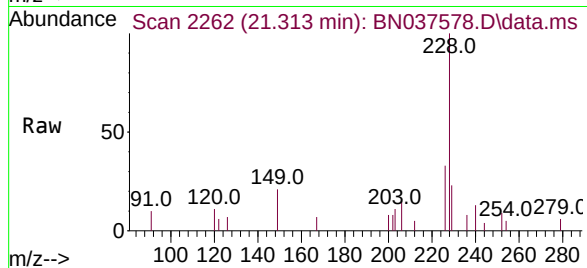
Tgt Ion:228 Resp: 1603

Ion Ratio Lower Upper

228 100

226 32.9 24.9 37.3

229 22.8 15.8 23.8



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.514 min Scan# 2763

Delta R.T. 0.006 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

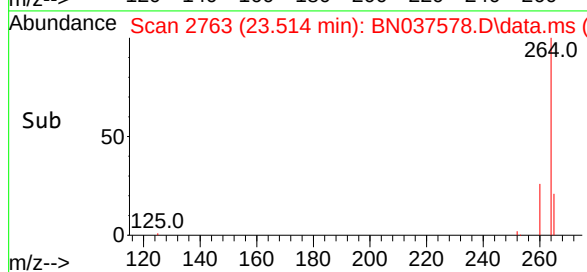
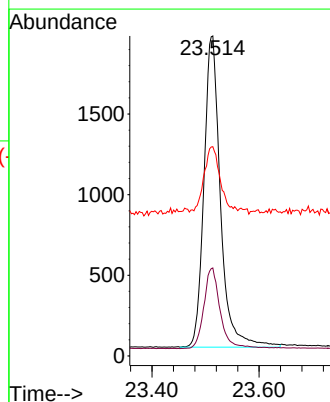
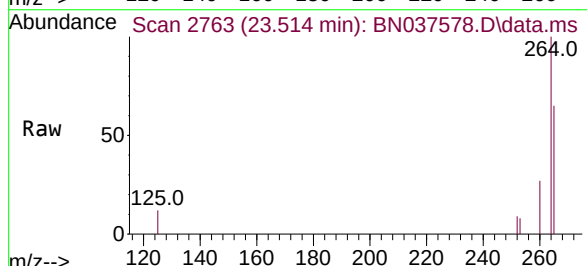
Tgt Ion:264 Resp: 4132

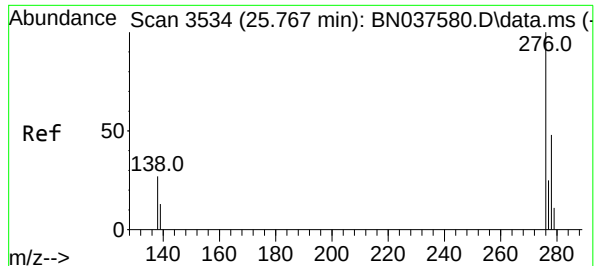
Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

265 65.4 48.2 72.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.086 ng

RT: 25.771 min Scan# 3534

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

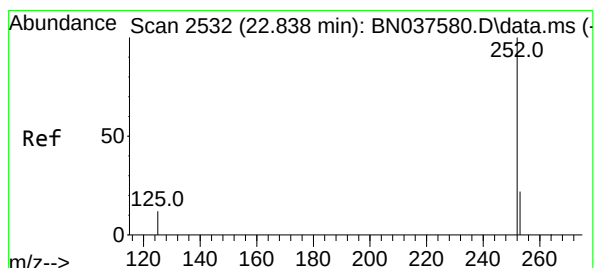
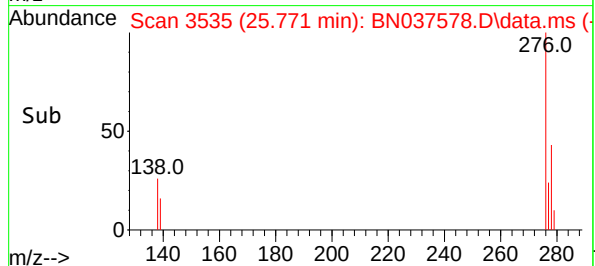
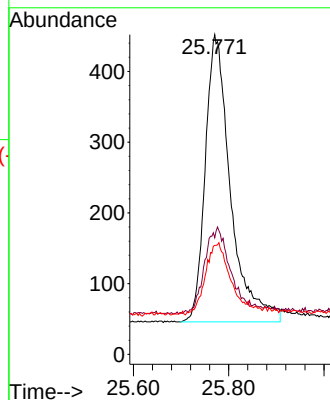
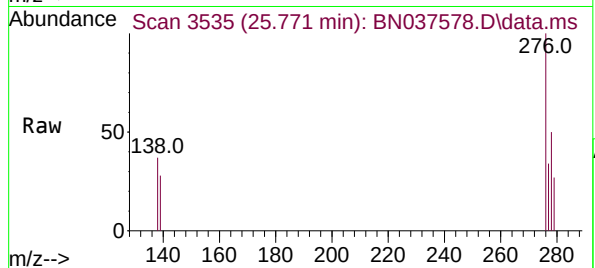
Tgt Ion:276 Resp: 1494

Ion Ratio Lower Upper

276 100

138 29.2 23.3 34.9

277 24.9 19.5 29.3



#37

Benzo(b)fluoranthene

Concen: 0.089 ng

RT: 22.841 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

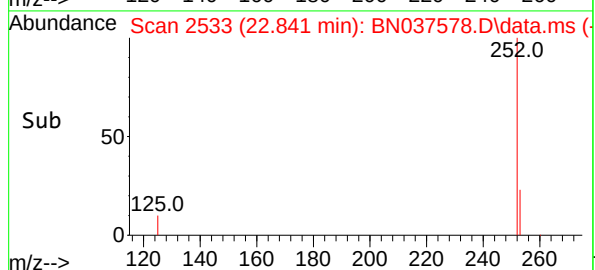
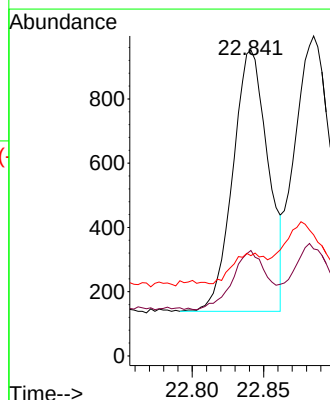
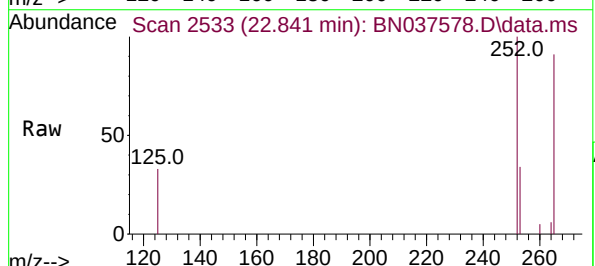
Tgt Ion:252 Resp: 1396

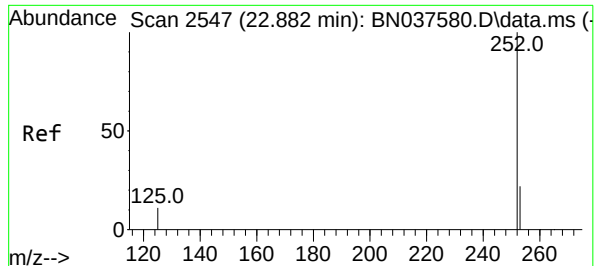
Ion Ratio Lower Upper

252 100

253 34.5 20.0 30.0#

125 32.8 13.8 20.6#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 22.885 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

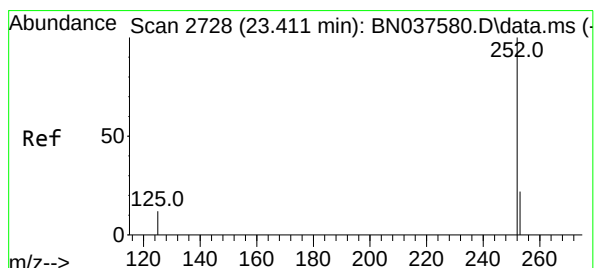
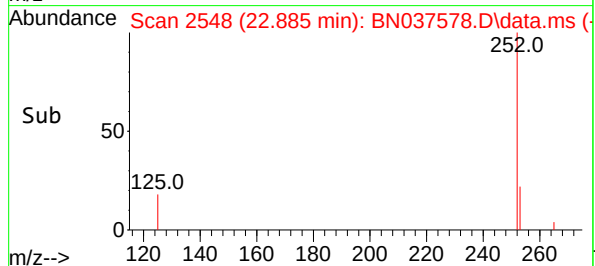
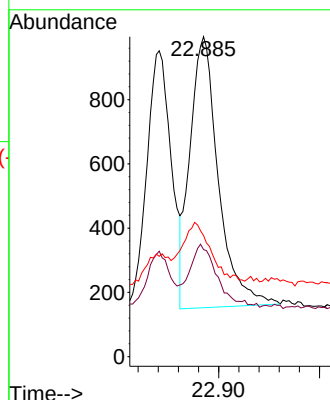
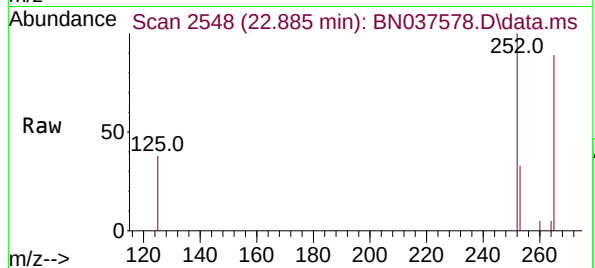
Tgt Ion:252 Resp: 1650

Ion Ratio Lower Upper

252 100

253 33.4 19.9 29.9#

125 37.9 15.0 22.6#



#39

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.411 min Scan# 2728

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

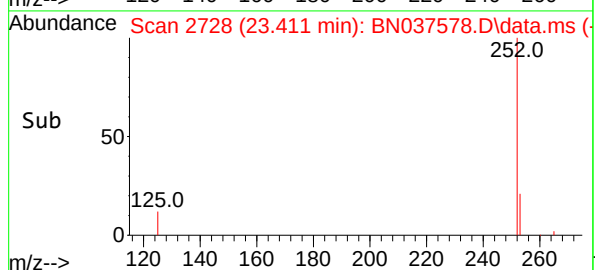
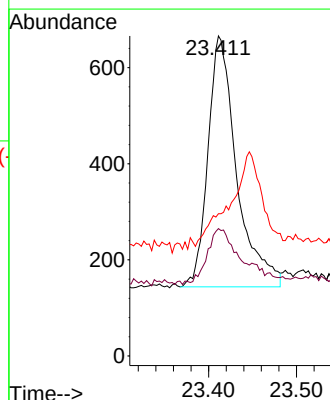
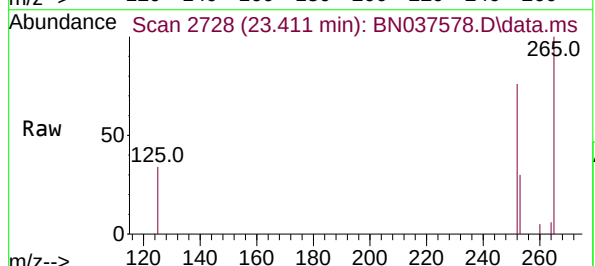
Tgt Ion:252 Resp: 1184

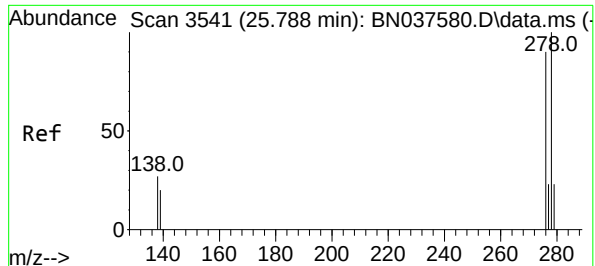
Ion Ratio Lower Upper

252 100

253 39.8 21.6 32.4#

125 44.4 16.8 25.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.078 ng

RT: 25.791 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

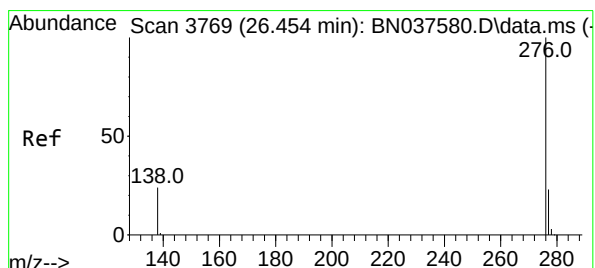
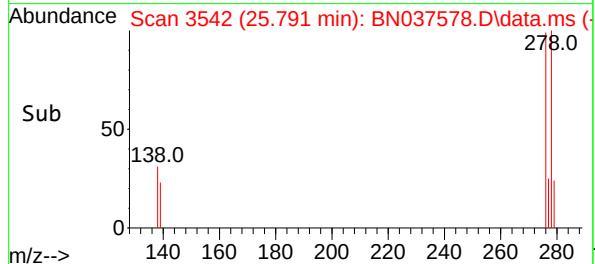
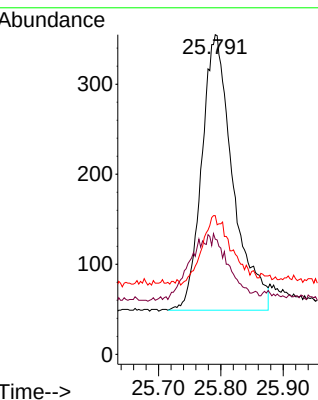
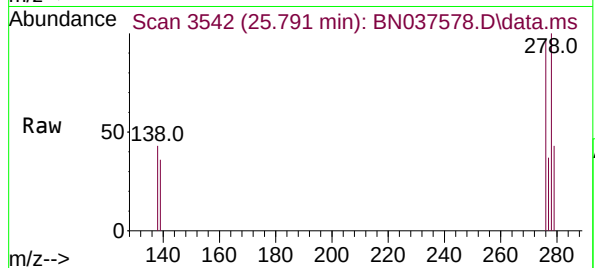
Tgt Ion:278 Resp: 1057

Ion Ratio Lower Upper

278 100

139 36.1 18.3 27.5#

279 43.4 22.5 33.7#



#41

Benzo(g,h,i)perylene

Concen: 0.088 ng

RT: 26.458 min Scan# 3770

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

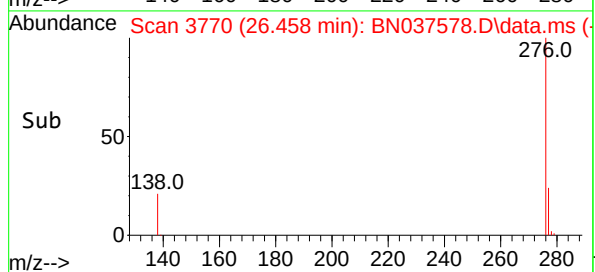
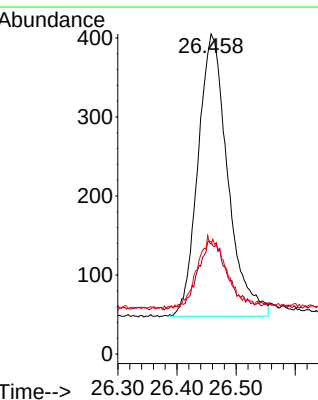
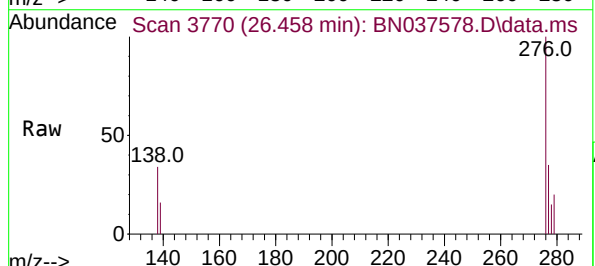
Tgt Ion:276 Resp: 1247

Ion Ratio Lower Upper

276 100

277 35.1 21.0 31.4#

138 34.3 21.7 32.5#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037579.D
 Acq On : 12 Aug 2025 17:03
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

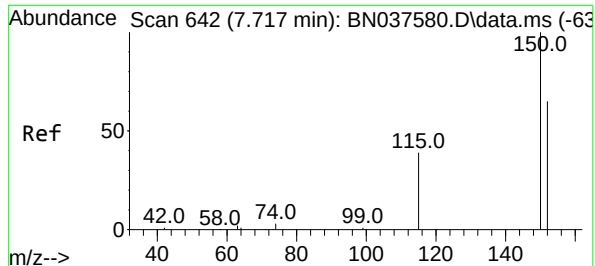
Quant Time: Aug 13 04:47:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2031	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4975	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2407	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4812	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4019	0.400	ng	0.00
35) Perylene-d12	23.508	264	3859	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	960	0.209	ng	0.00
5) Phenol-d6	6.879	99	1067	0.193	ng	0.00
8) Nitrobenzene-d5	8.854	82	640	0.183	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	1225	0.181	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	179	0.170	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	2700	0.194	ng	0.00
27) Fluoranthene-d10	19.123	212	2323	0.184	ng	0.00
31) Terphenyl-d14	19.726	244	1609	0.195	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	419	0.216	ng	96
3) n-Nitrosodimethylamine	3.543	42	478	0.193	ng	# 94
6) bis(2-Chloroethyl)ether	7.139	93	1002	0.201	ng	99
9) Naphthalene	10.552	128	2613	0.197	ng	96
10) Hexachlorobutadiene	10.851	225	641	0.198	ng	# 99
12) 2-Methylnaphthalene	12.167	142	1570	0.189	ng	98
16) Acenaphthylene	14.067	152	2118	0.196	ng	100
17) Acenaphthene	14.409	154	1384	0.189	ng	98
18) Fluorene	15.393	166	1817	0.189	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	100	0.295	ng	# 58
21) 4-Bromophenyl-phenylether	16.292	248	567	0.187	ng	97
22) Hexachlorobenzene	16.404	284	865	0.202	ng	99
23) Atrazine	16.553	200	303	0.177	ng	# 83
24) Pentachlorophenol	16.739	266	260	0.173	ng	95
25) Phenanthrene	17.124	178	2796	0.191	ng	99
26) Anthracene	17.223	178	2371	0.183	ng	99
28) Fluoranthene	19.150	202	3041	0.181	ng	99
30) Pyrene	19.513	202	2987	0.199	ng	99
32) Benzo(a)anthracene	21.259	228	2563	0.191	ng	97
33) Chrysene	21.304	228	3045	0.204	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	1040	0.188	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.771	276	2821	0.173	ng	98
37) Benzo(b)fluoranthene	22.838	252	2653	0.181	ng	# 91
38) Benzo(k)fluoranthene	22.882	252	3049	0.185	ng	# 90
39) Benzo(a)pyrene	23.414	252	2191	0.181	ng	# 83
40) Dibenzo(a,h)anthracene	25.785	278	2157	0.171	ng	# 89
41) Benzo(g,h,i)perylene	26.455	276	2459	0.185	ng	93

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

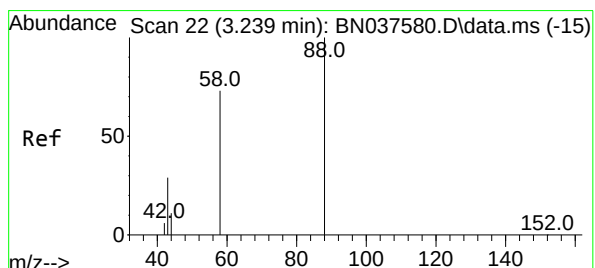
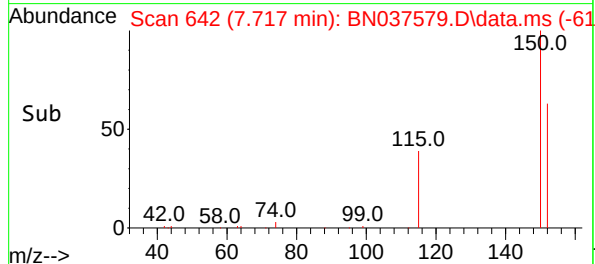
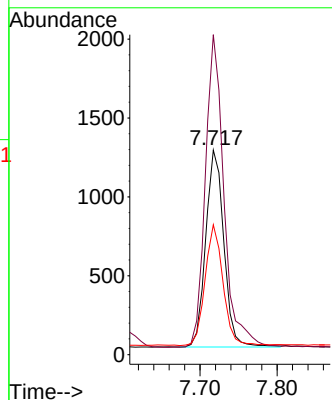
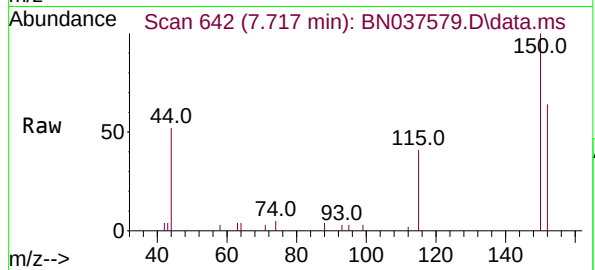
- 1
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- 17
- 18



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

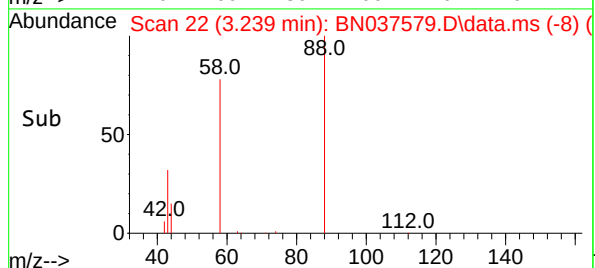
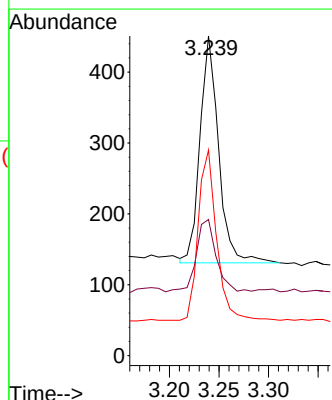
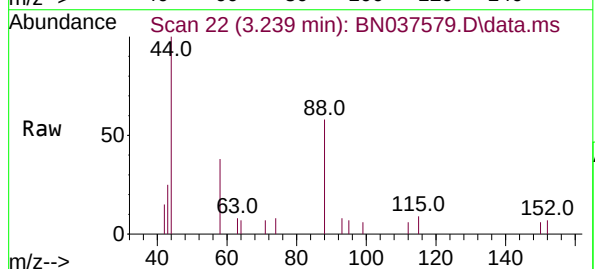
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

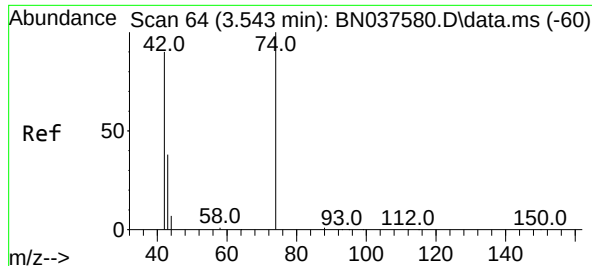
Tgt Ion:152 Resp: 2031
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.4
115 63.5 49.8 74.6



#2
1,4-Dioxane
Concen: 0.216 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion: 88 Resp: 419
Ion Ratio Lower Upper
88 100
43 34.8 25.8 38.6
58 73.7 61.2 91.8

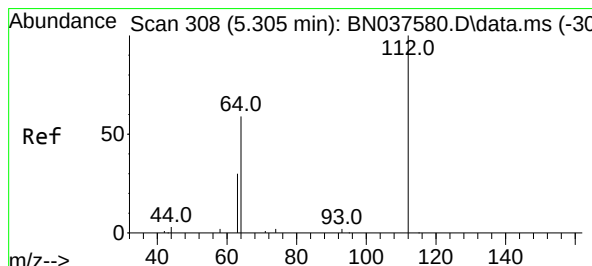
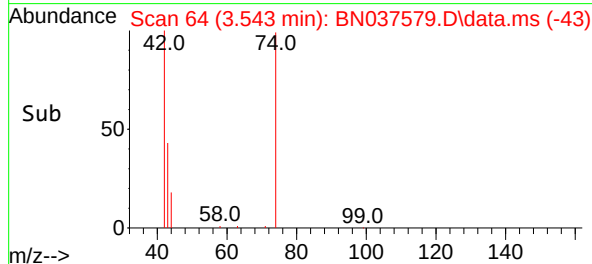
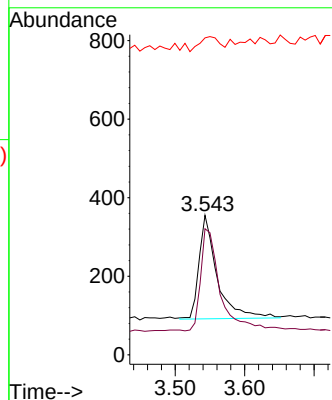
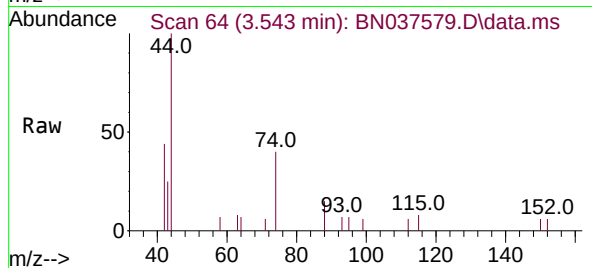




#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

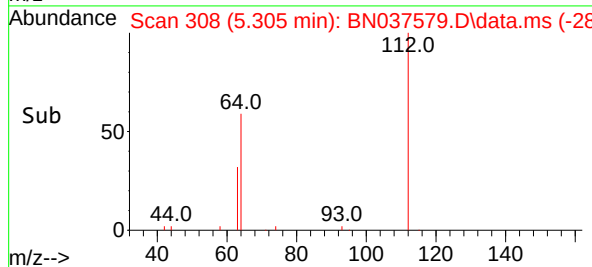
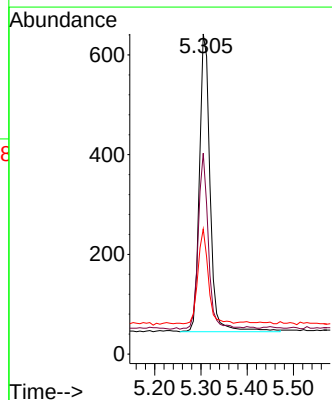
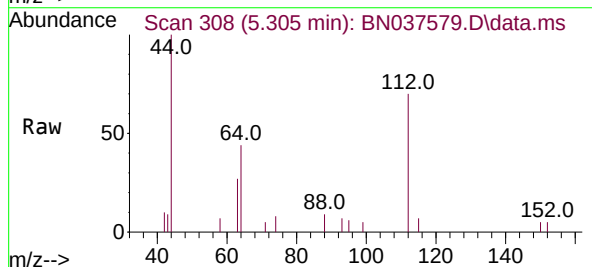
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

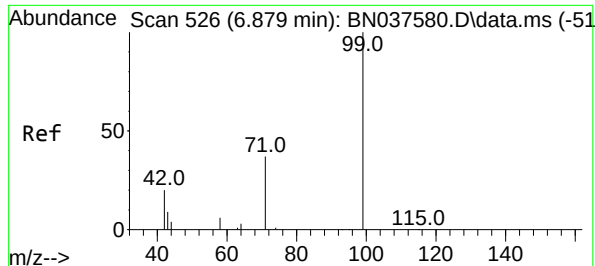
Tgt Ion: 42 Resp: 478
Ion Ratio Lower Upper
42 100
74 107.5 82.0 123.0
44 15.7 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.209 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion: 112 Resp: 960
Ion Ratio Lower Upper
112 100
64 56.3 44.9 67.3
63 30.9 23.4 35.2

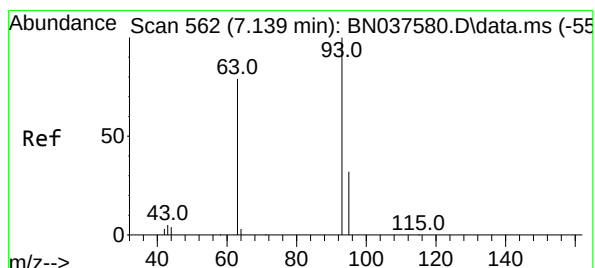
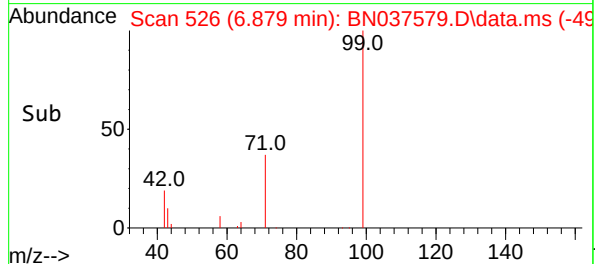
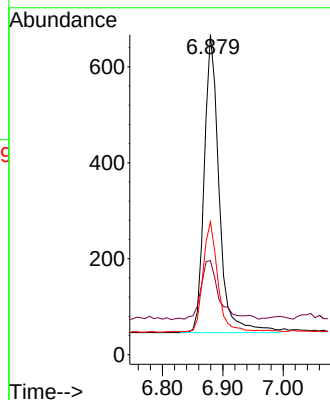
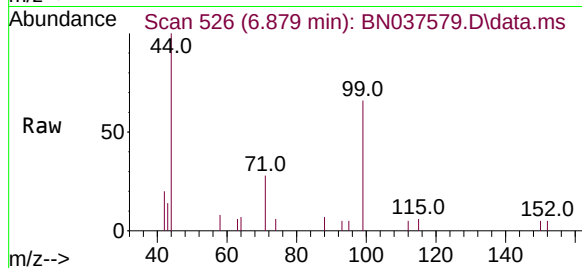




#5
Phenol-d6
Concen: 0.193 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

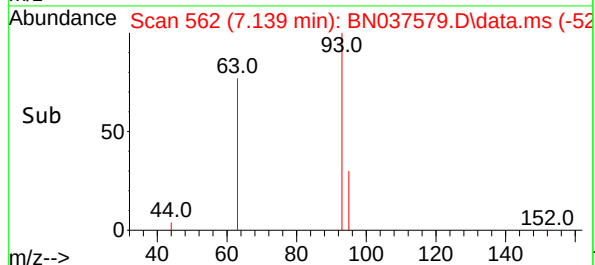
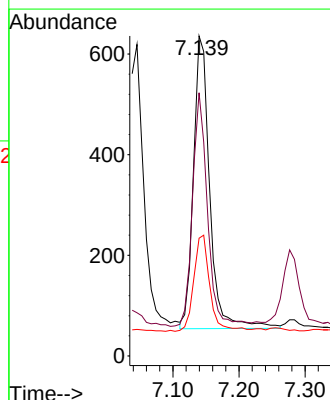
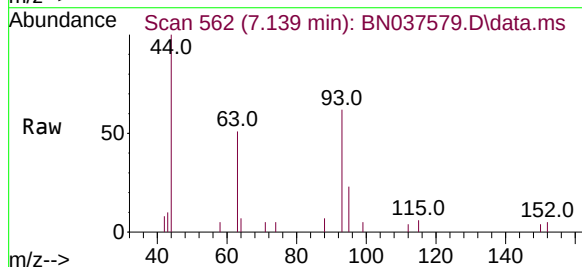
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

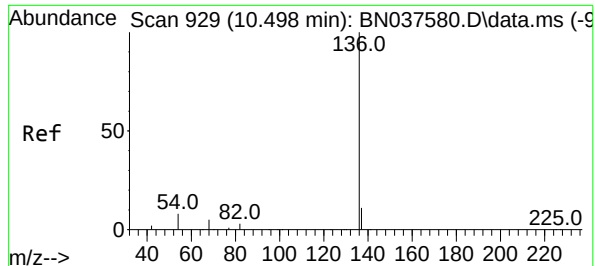
Tgt Ion	Ratio	Lower	Upper
99	100		
42	24.4	18.5	27.7
71	35.7	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.201 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion	Ratio	Lower	Upper
93	100		
63	73.4	58.0	87.0
95	32.5	24.9	37.3

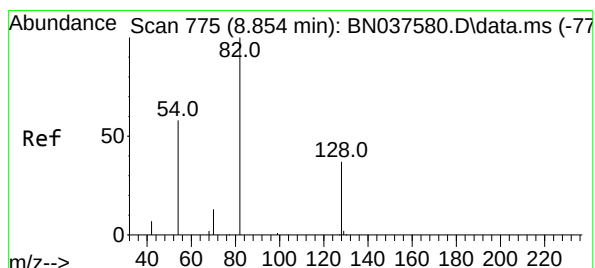
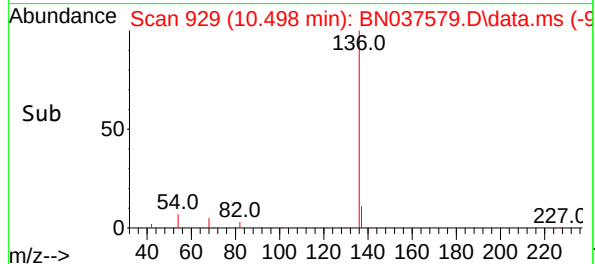
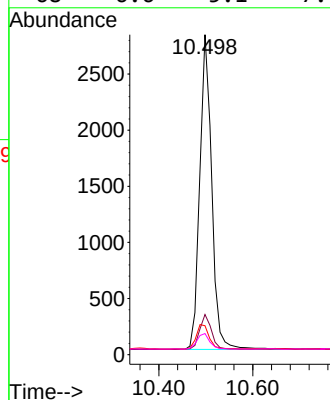
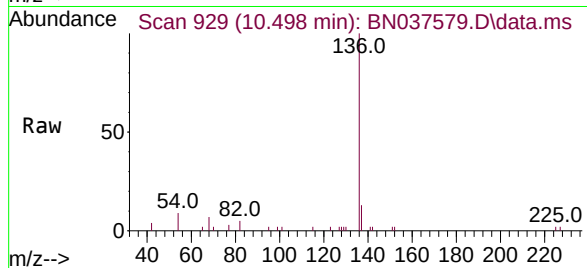




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

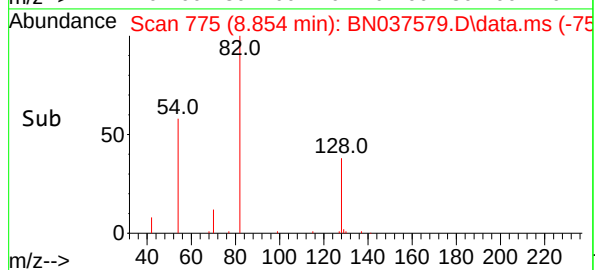
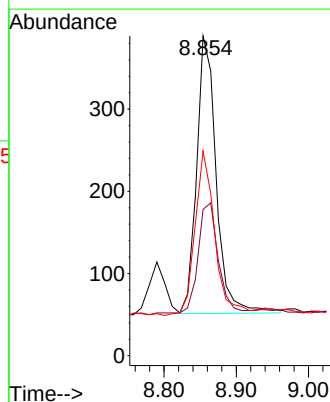
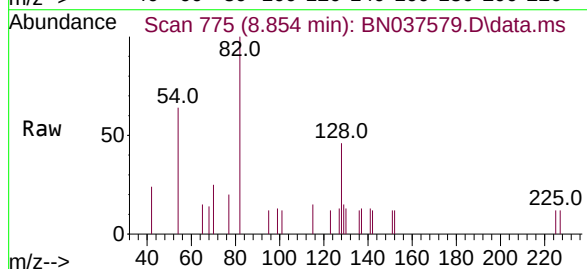
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

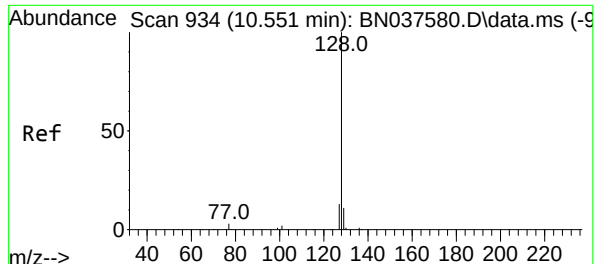
Tgt Ion:	136	Resp:	4975
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.5	14.3
54	9.0	7.3	10.9
68	6.6	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.183 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:	82	Resp:	640
Ion	Ratio	Lower	Upper
82	100		
128	45.8	32.6	48.8
54	64.0	48.9	73.3

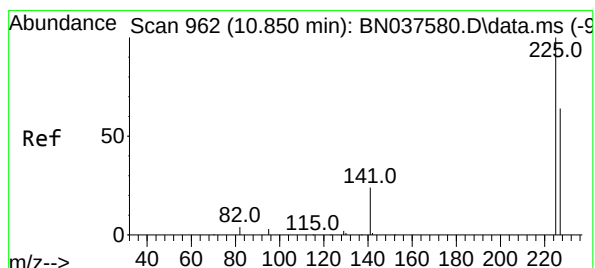
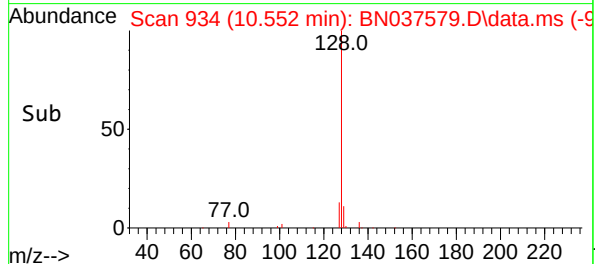
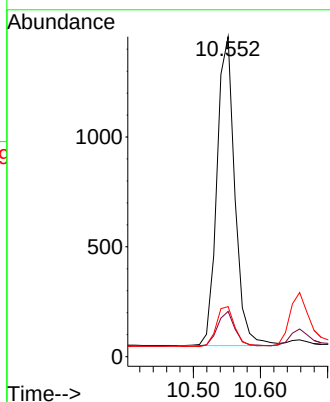
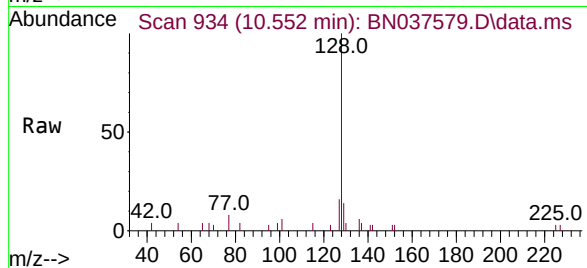




#9
Naphthalene
Concen: 0.197 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

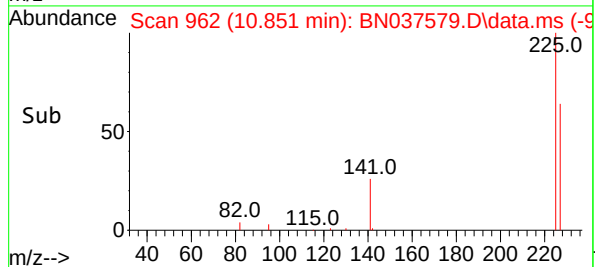
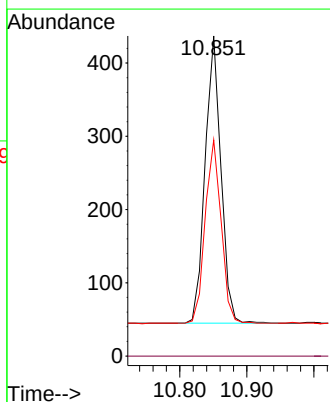
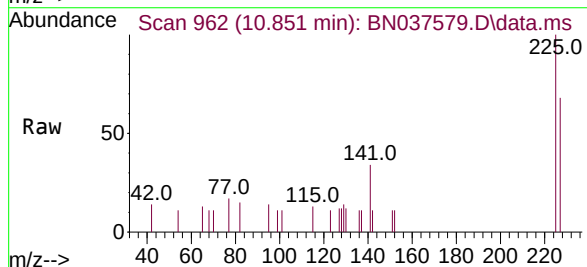
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

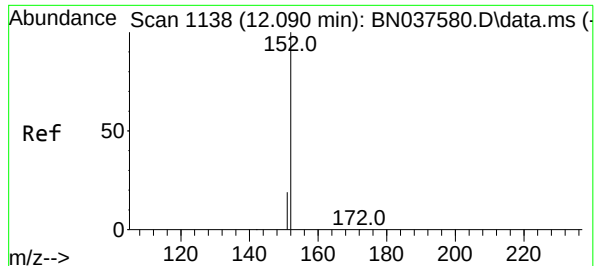
Tgt Ion:128 Resp: 2613
Ion Ratio Lower Upper
128 100
129 14.1 9.8 14.6
127 15.6 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.198 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:225 Resp: 641
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.1 50.8 76.2

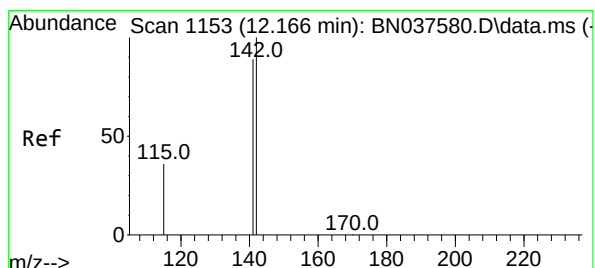
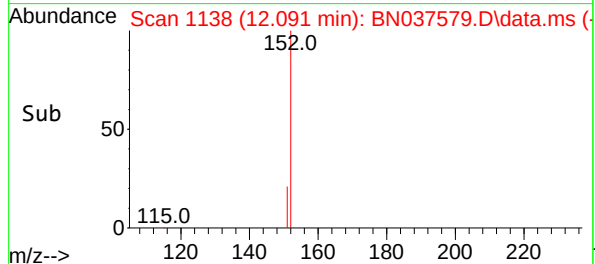
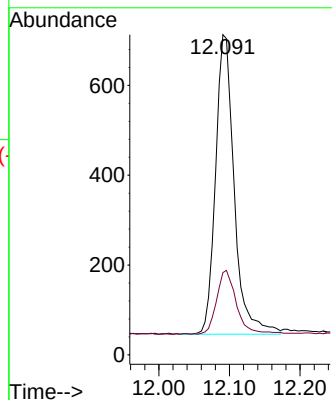
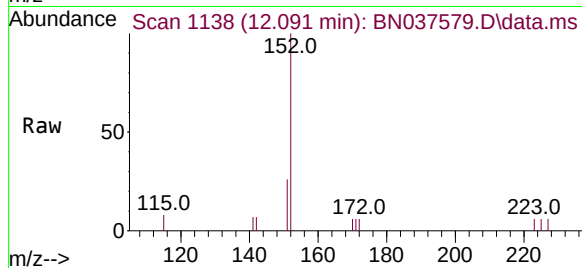




#11
2-Methylnaphthalene-d10
Concen: 0.181 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

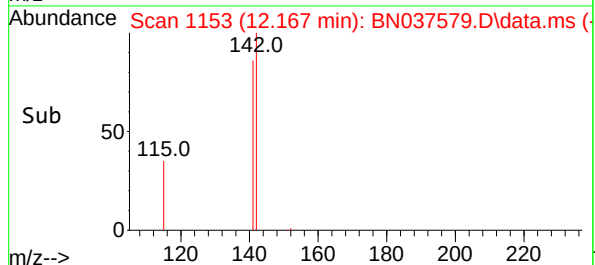
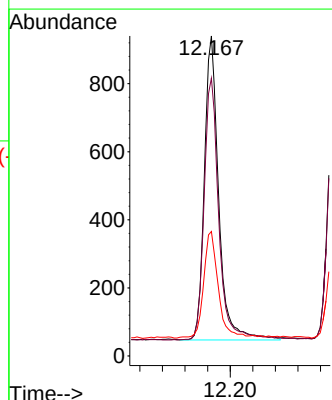
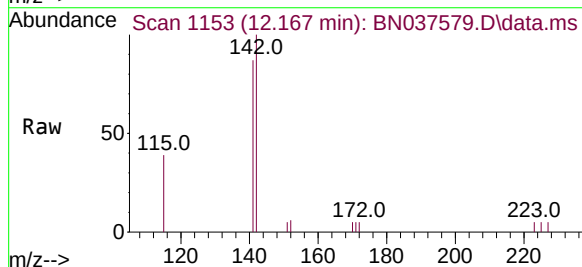
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

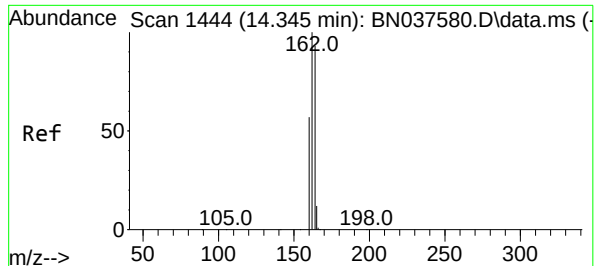
Tgt Ion:152 Resp: 1225
Ion Ratio Lower Upper
152 100
151 22.7 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:142 Resp: 1570
Ion Ratio Lower Upper
142 100
141 86.8 71.4 107.0
115 38.9 30.2 45.4

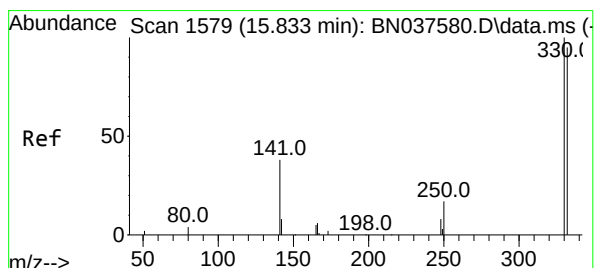
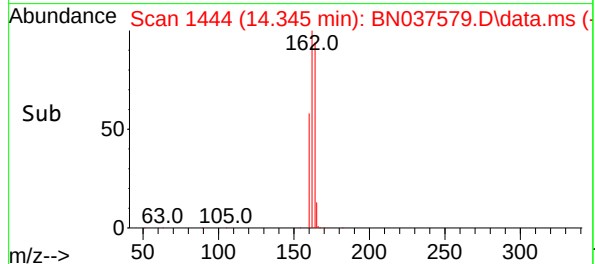
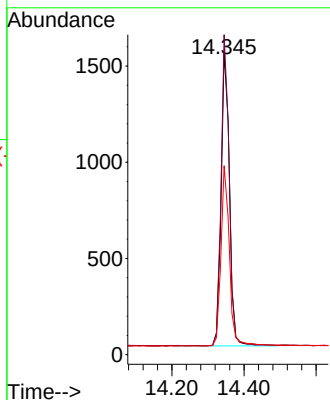
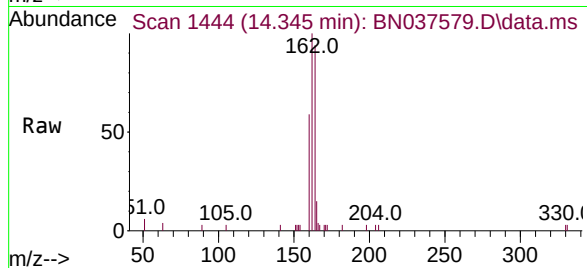




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

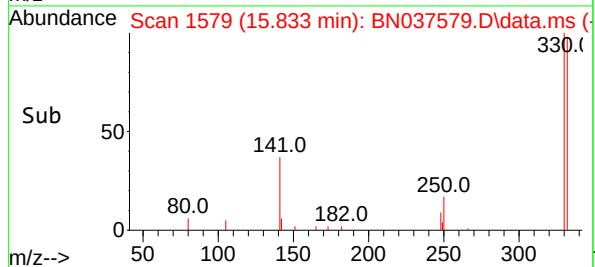
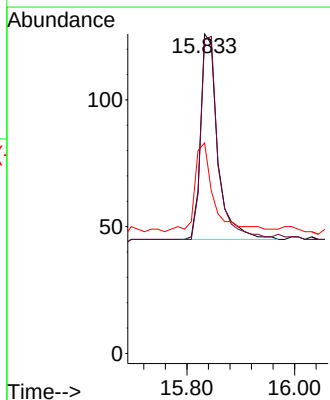
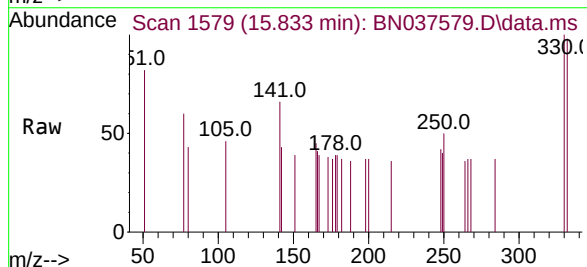
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

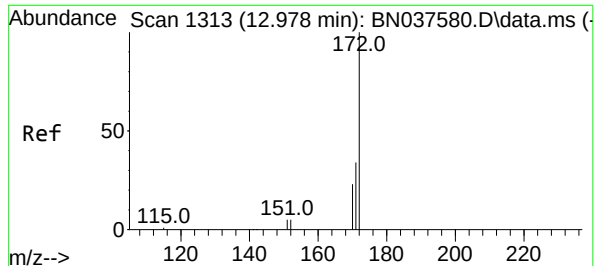
Tgt Ion:164 Resp: 2407
Ion Ratio Lower Upper
164 100
162 106.0 85.5 128.3
160 62.6 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.170 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:330 Resp: 179
Ion Ratio Lower Upper
330 100
332 98.9 77.4 116.0
141 48.0 30.9 46.3#





#15

2-Fluorobiphenyl

Concen: 0.194 ng

RT: 12.978 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

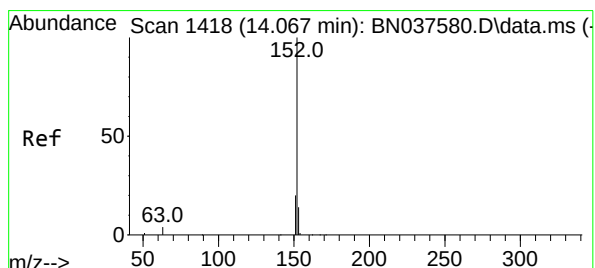
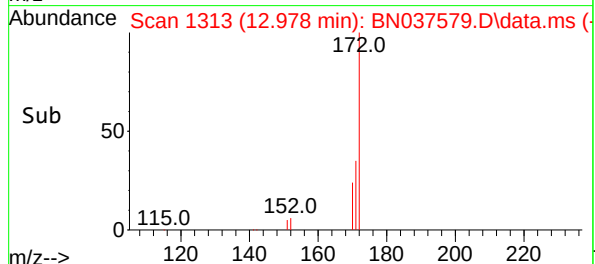
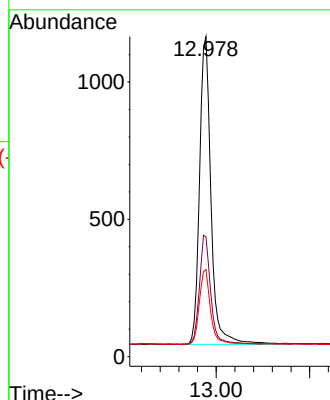
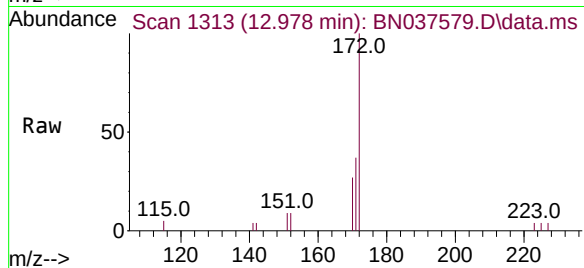
Tgt Ion:172 Resp: 2700

Ion Ratio Lower Upper

172 100

171 37.4 28.2 42.4

170 27.2 19.2 28.8



#16

Acenaphthylene

Concen: 0.196 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

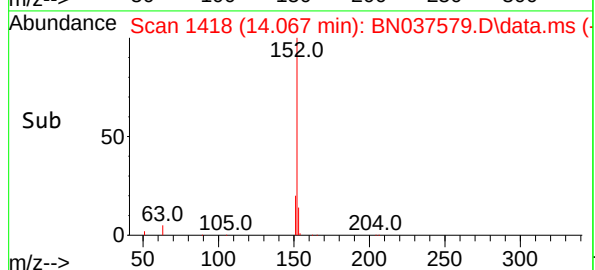
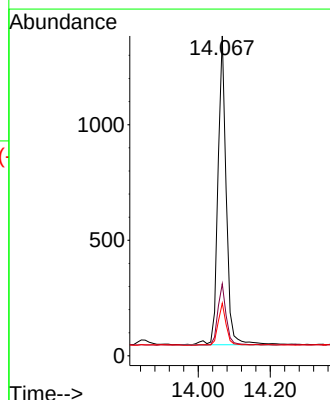
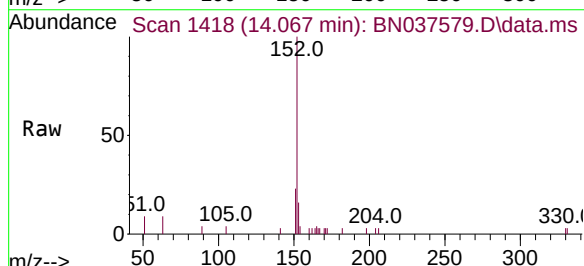
Tgt Ion:152 Resp: 2118

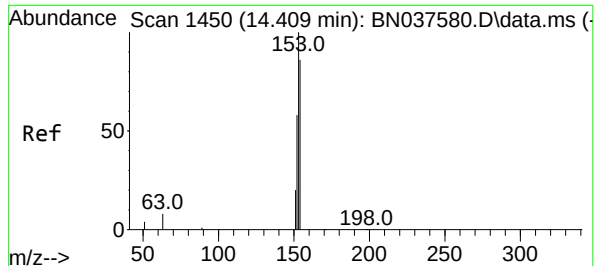
Ion Ratio Lower Upper

152 100

151 20.4 16.1 24.1

153 13.3 10.7 16.1

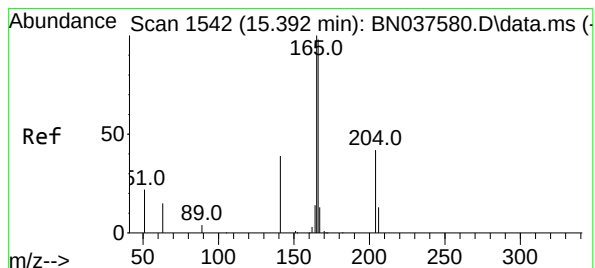
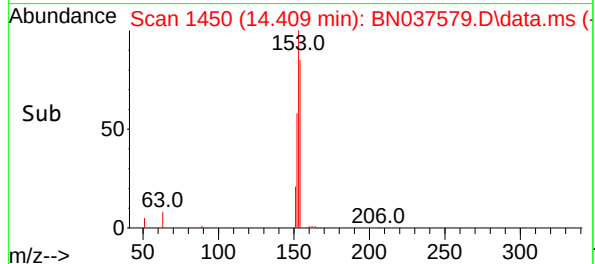
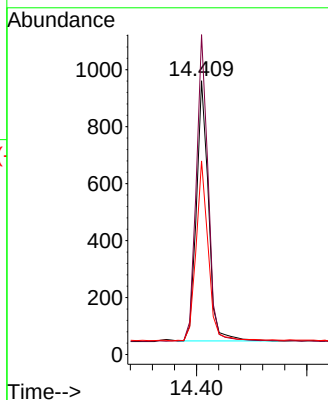
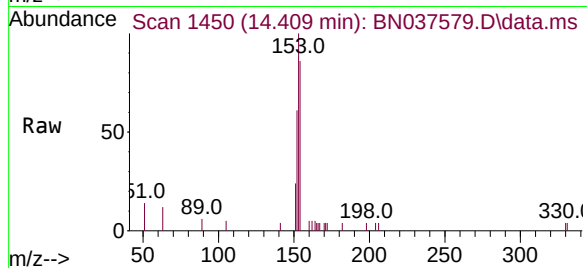




#17
Acenaphthene
Concen: 0.189 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

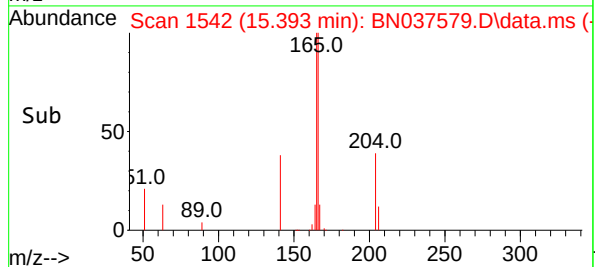
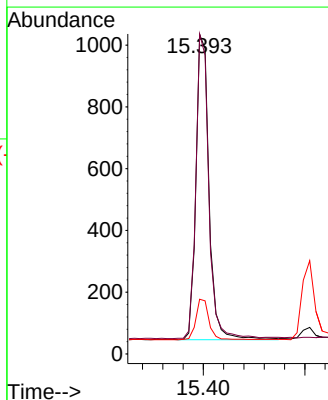
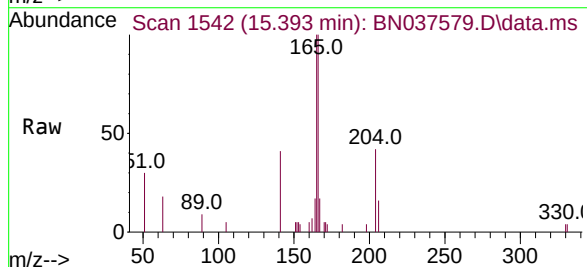
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

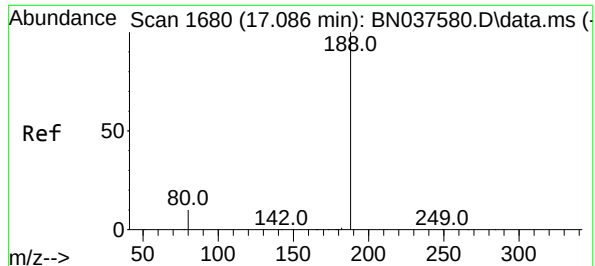
Tgt Ion	154	Resp	1384
Ion Ratio	Lower	Upper	
154	100		
153	115.7	90.6	135.8
152	70.7	54.9	82.3



#18
Fluorene
Concen: 0.189 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion	166	Resp	1817
Ion Ratio	Lower	Upper	
166	100		
165	96.0	78.9	118.3
167	12.9	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

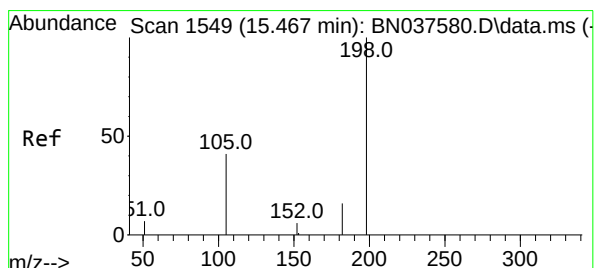
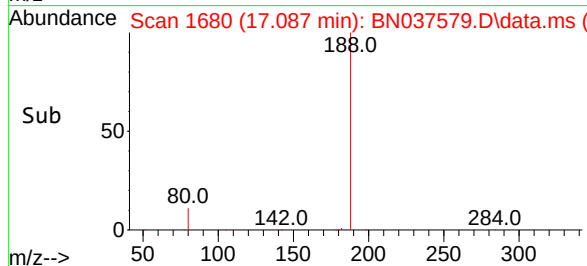
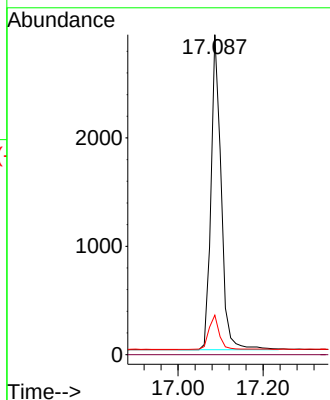
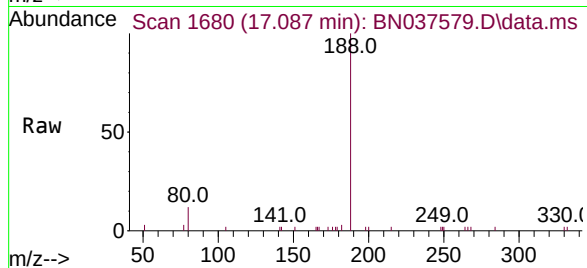
Tgt Ion:188 Resp: 4812

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.295 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

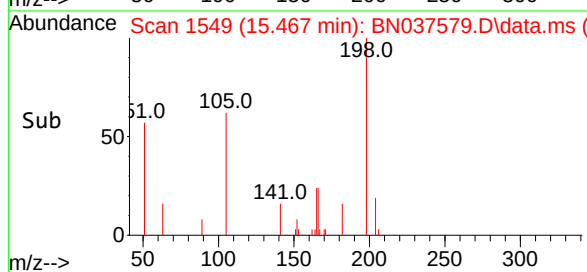
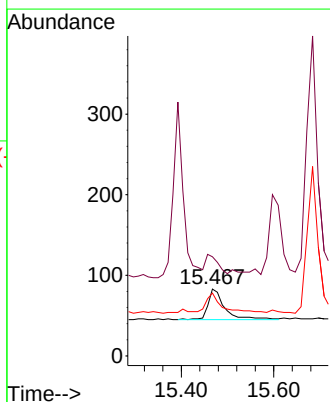
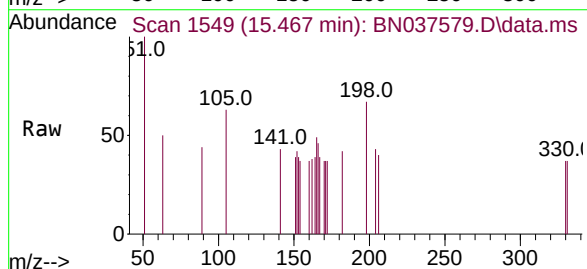
Tgt Ion:198 Resp: 100

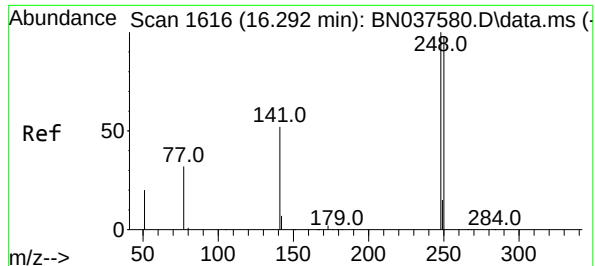
Ion Ratio Lower Upper

198 100

51 148.2 81.0 121.6#

105 94.0 52.5 78.7#

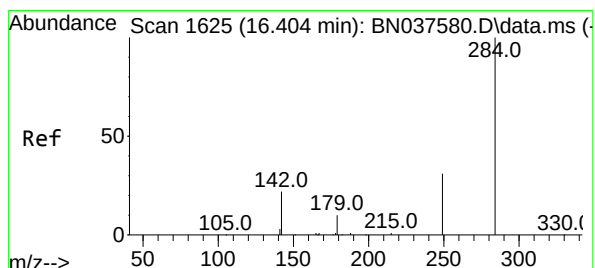
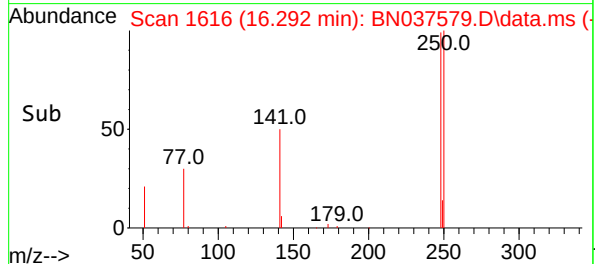
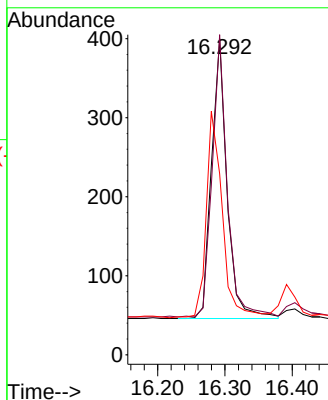
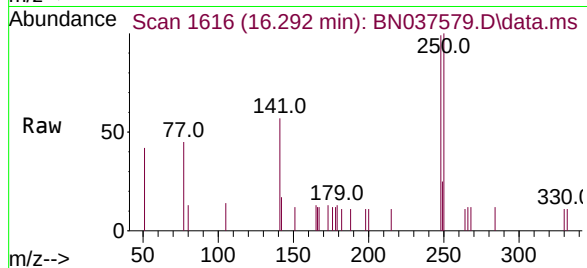




#21
4-Bromophenyl-phenylether
Concen: 0.187 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

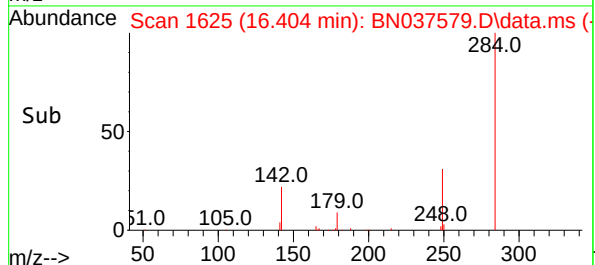
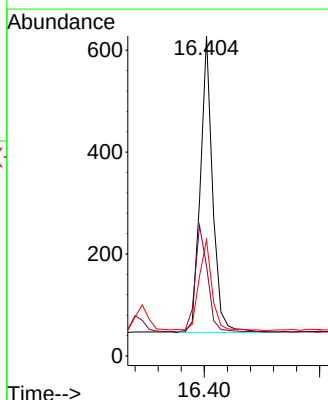
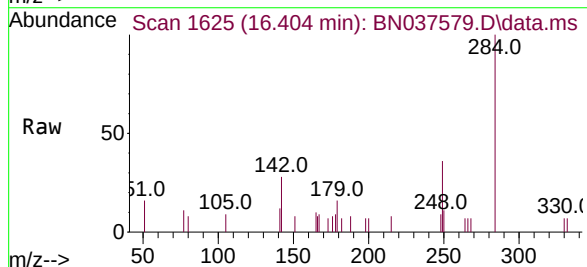
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

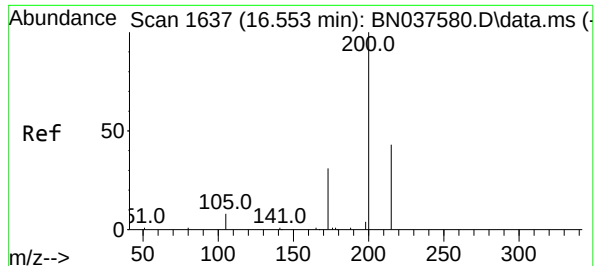
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	78.6	118.0
141	57.3	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.202 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.3	29.8	44.6
249	32.6	26.0	39.0

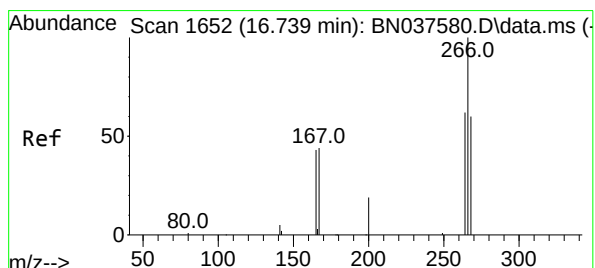
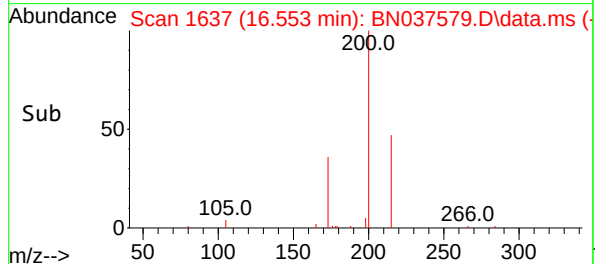
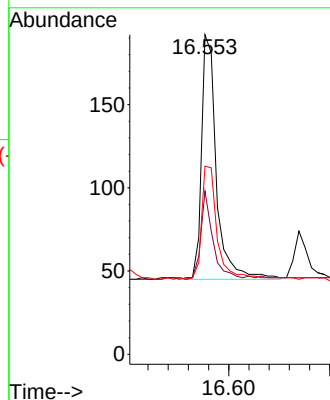
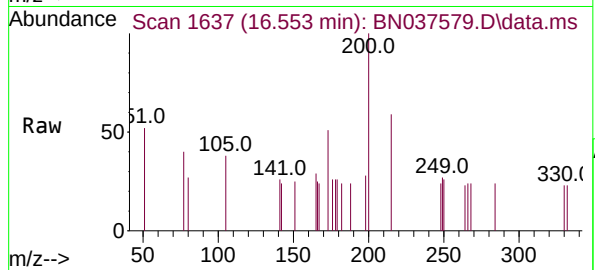




#23
Atrazine
Concen: 0.177 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

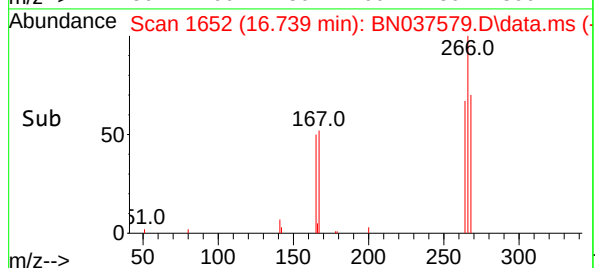
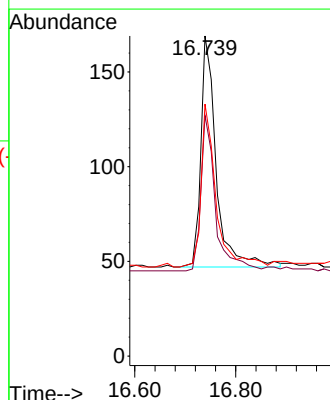
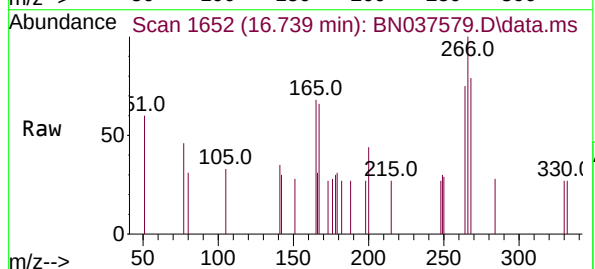
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

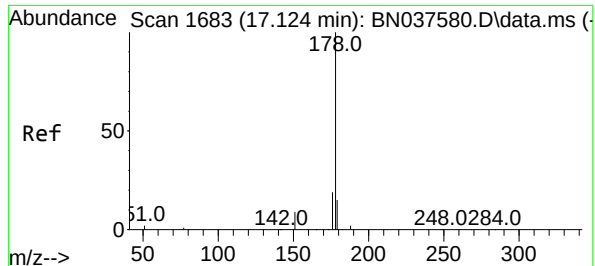
Tgt Ion:200 Resp: 303
Ion Ratio Lower Upper
200 100
173 51.0 31.0 46.4#
215 58.9 39.4 59.0



#24
Pentachlorophenol
Concen: 0.173 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:266 Resp: 260
Ion Ratio Lower Upper
266 100
264 63.5 49.6 74.4
268 68.1 49.2 73.8

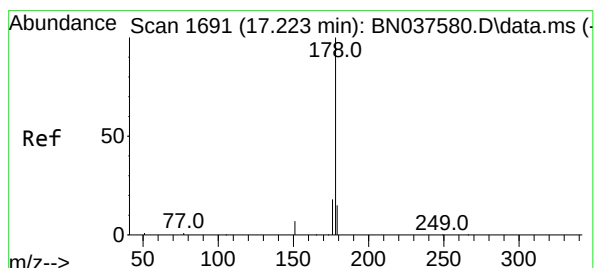
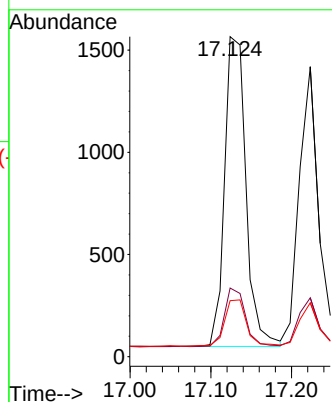
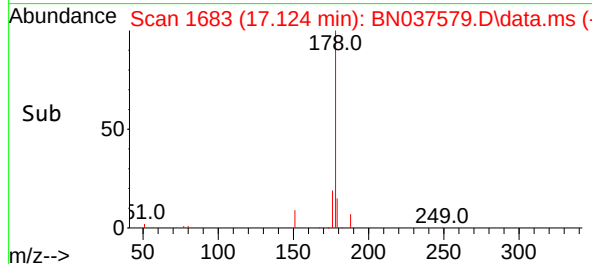
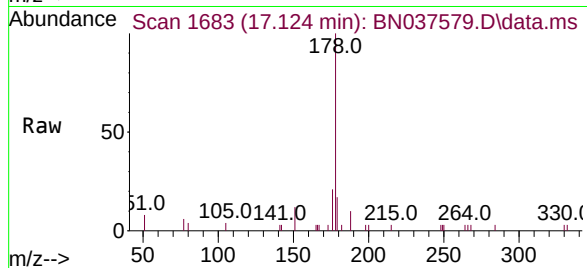




#25
Phenanthrene
Concen: 0.191 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

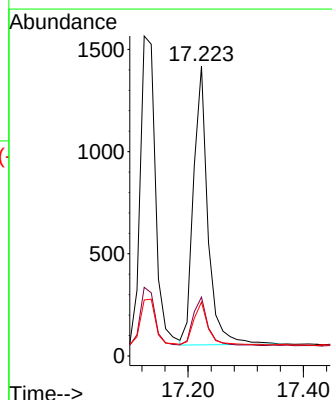
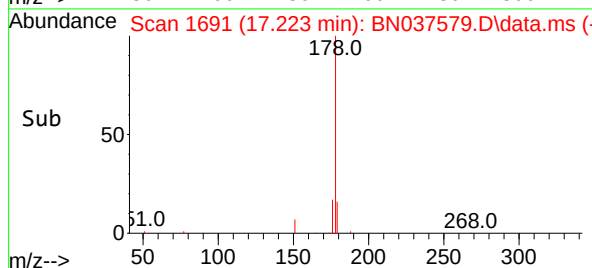
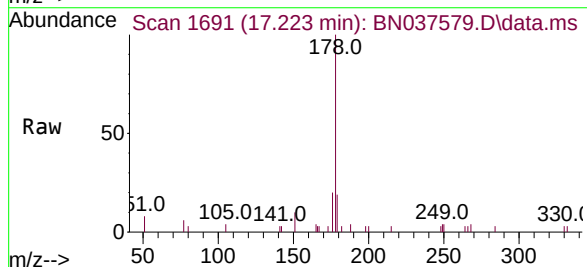
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

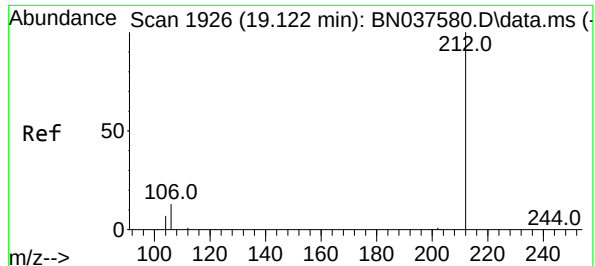
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.3	18.5



#26
Anthracene
Concen: 0.183 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.7	22.1
179	15.4	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.184 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

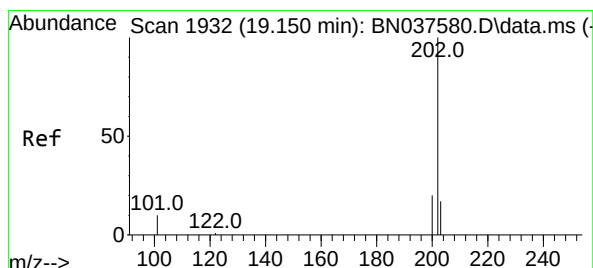
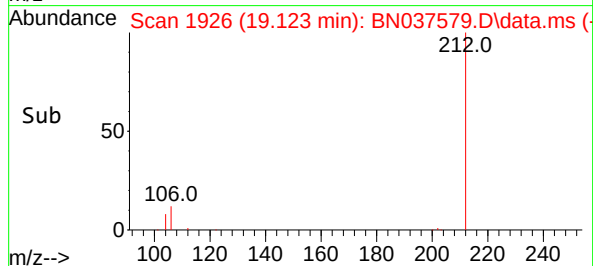
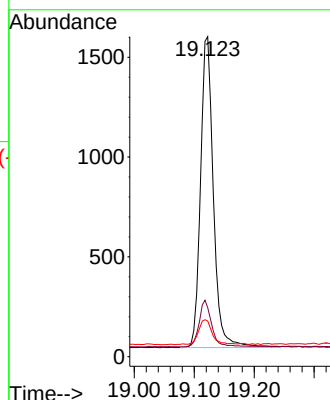
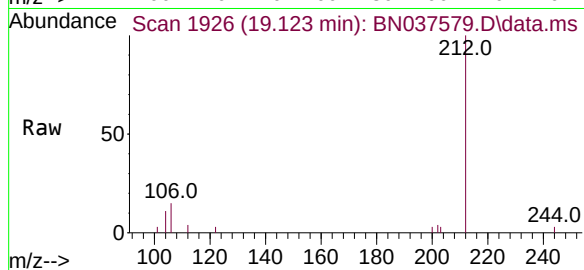
Tgt Ion:212 Resp: 2323

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.7 6.6 9.8



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

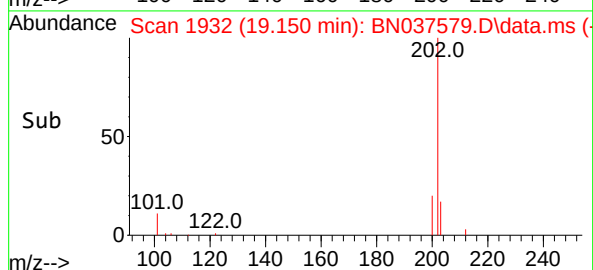
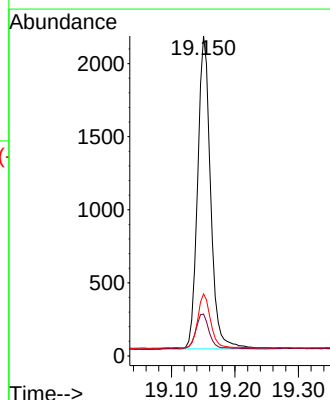
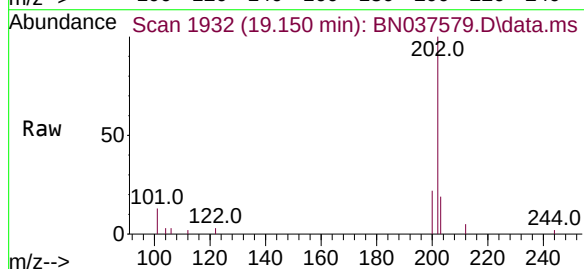
Tgt Ion:202 Resp: 3041

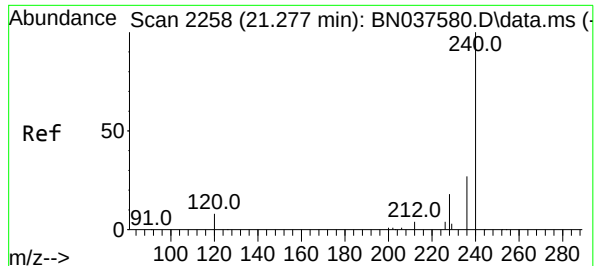
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 16.9 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

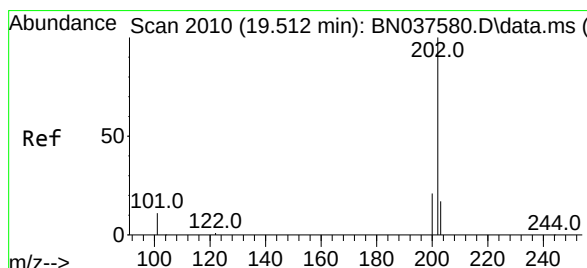
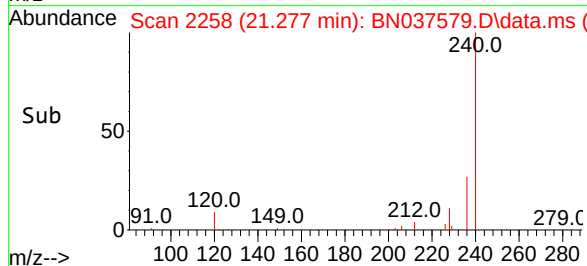
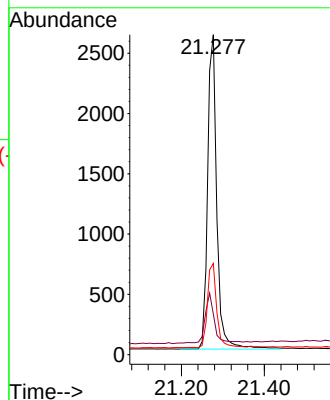
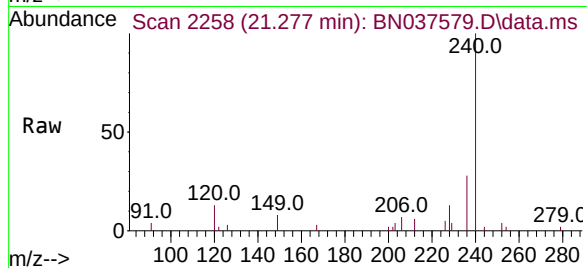
Tgt Ion:240 Resp: 4019

Ion Ratio Lower Upper

240 100

120 12.7 8.9 13.3

236 28.5 22.6 33.8



#30

Pyrene

Concen: 0.199 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

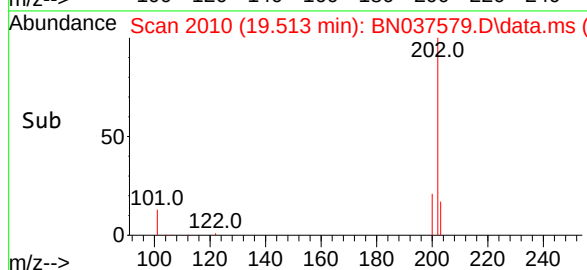
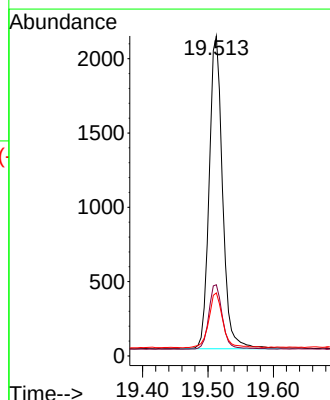
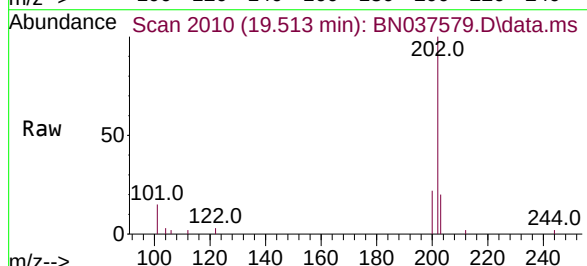
Tgt Ion:202 Resp: 2987

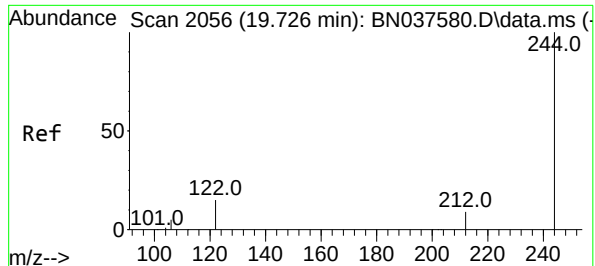
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.5 14.3 21.5

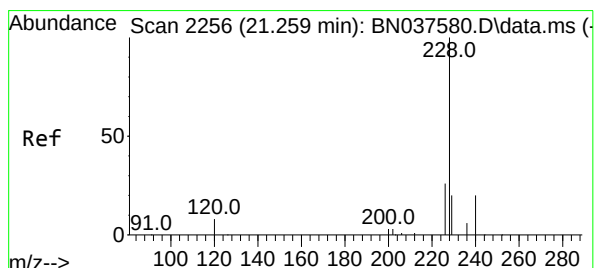
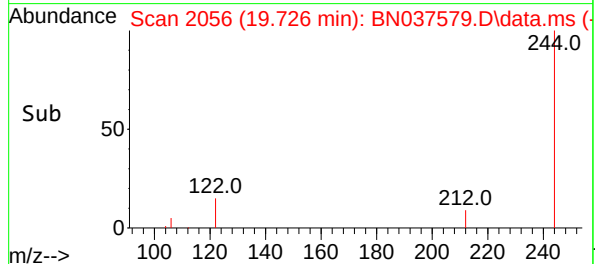
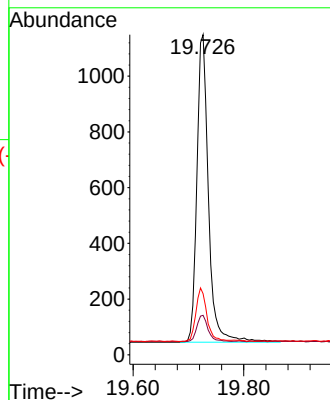
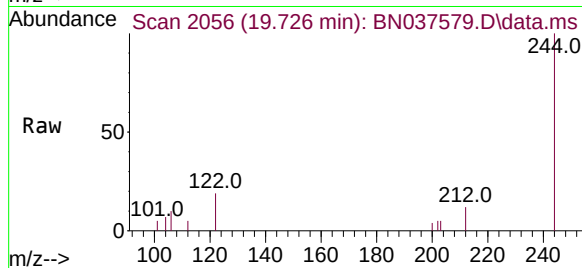




#31
Terphenyl-d14
Concen: 0.195 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

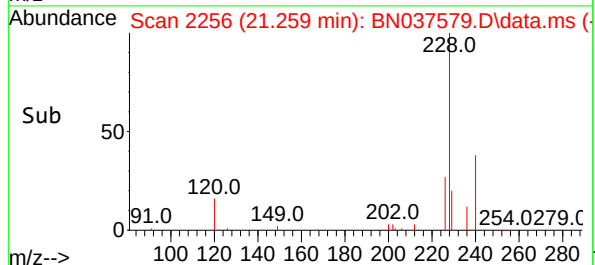
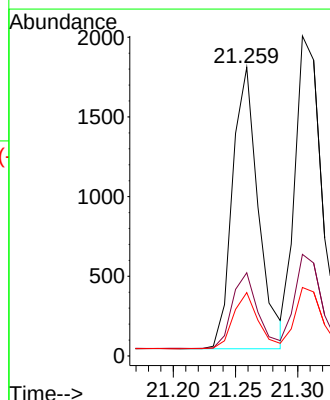
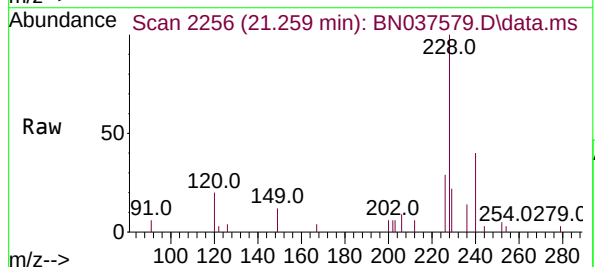
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

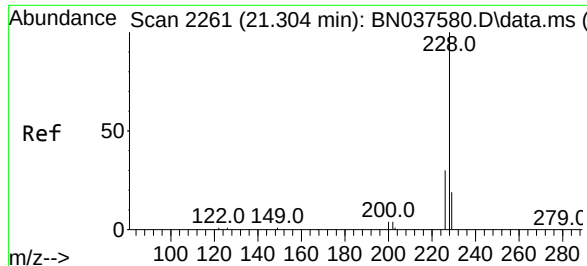
Tgt Ion:244 Resp: 1609
Ion Ratio Lower Upper
244 100
212 12.4 8.2 12.2#
122 19.1 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.191 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

Tgt Ion:228 Resp: 2563
Ion Ratio Lower Upper
228 100
226 28.8 21.5 32.3
229 22.0 16.5 24.7





#33

Chrysene

Concen: 0.204 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

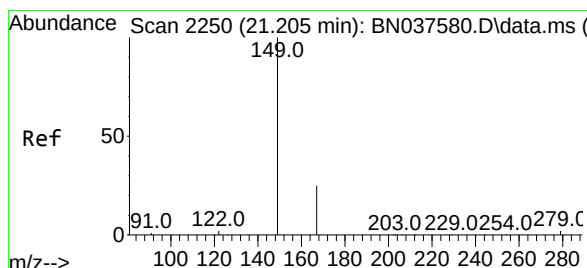
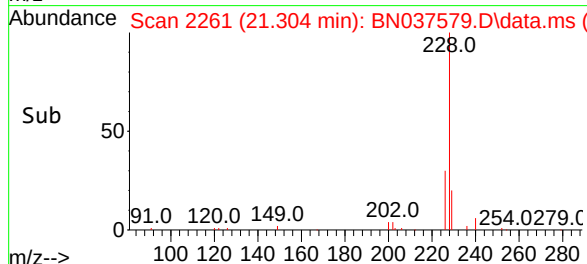
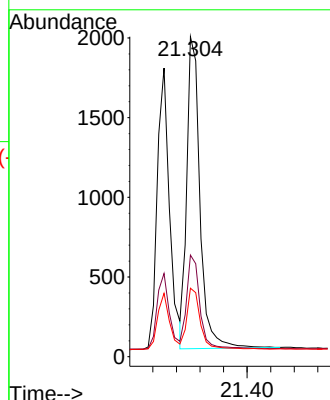
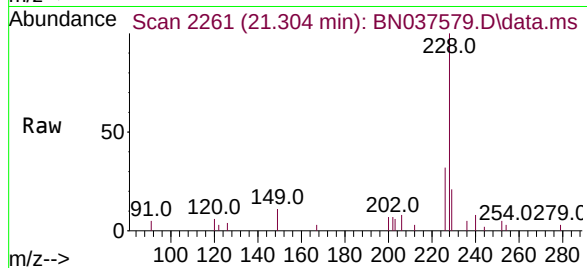
Tgt Ion:228 Resp: 3045

Ion Ratio Lower Upper

228 100

226 31.8 24.9 37.3

229 21.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.188 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

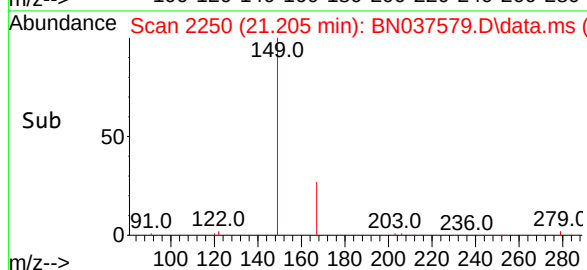
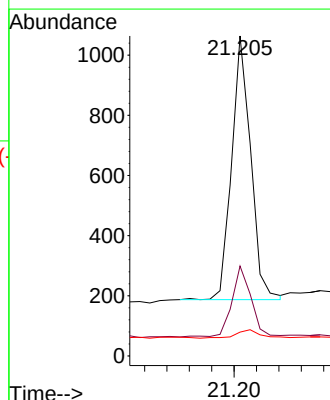
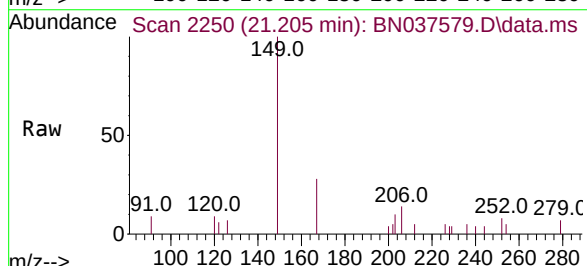
Tgt Ion:149 Resp: 1040

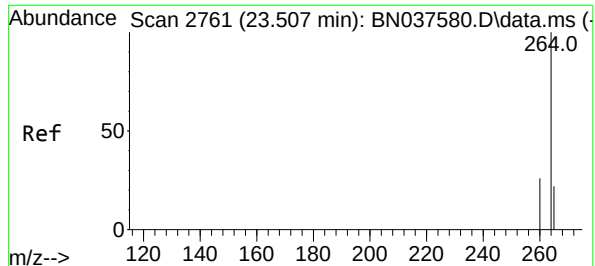
Ion Ratio Lower Upper

149 100

167 27.2 20.5 30.7

279 4.0 2.6 4.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

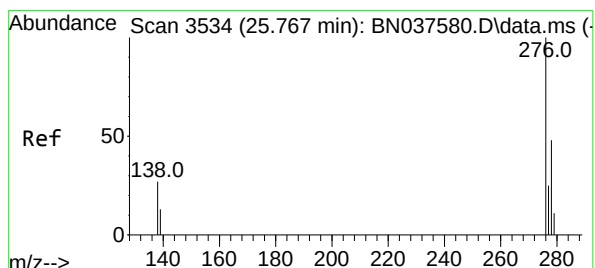
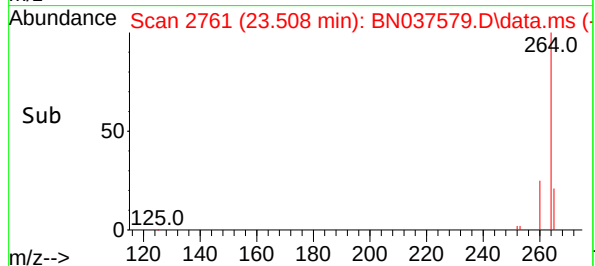
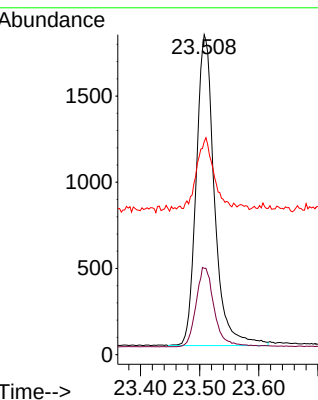
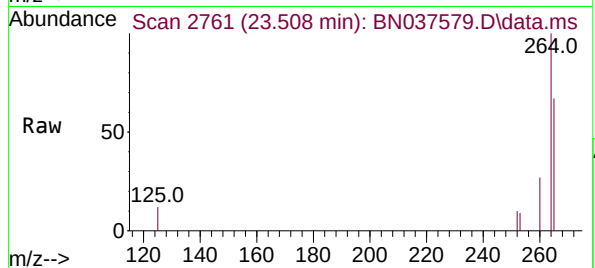
Tgt Ion:264 Resp: 3859

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 66.5 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.173 ng

RT: 25.771 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

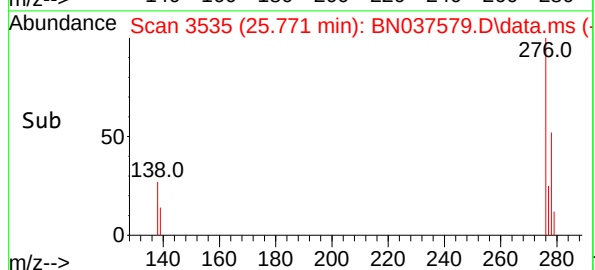
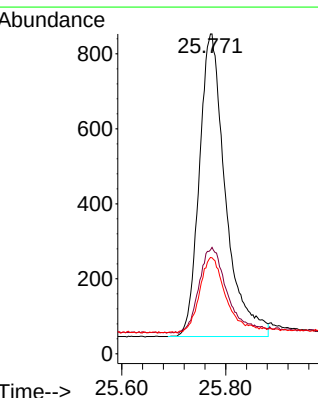
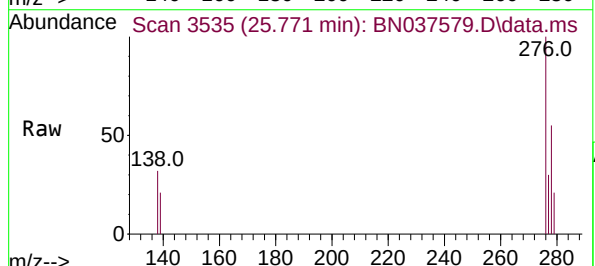
Tgt Ion:276 Resp: 2821

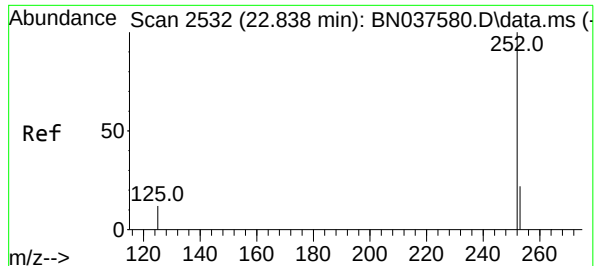
Ion Ratio Lower Upper

276 100

138 30.8 23.3 34.9

277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

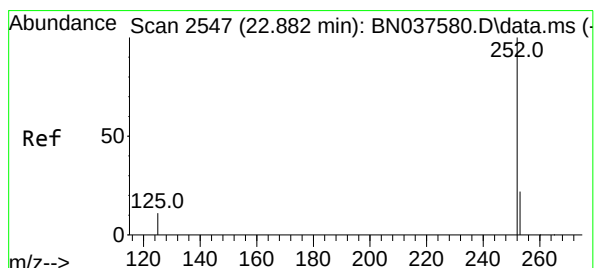
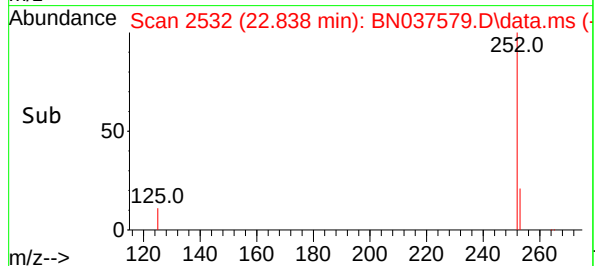
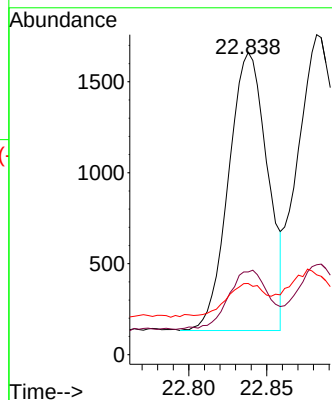
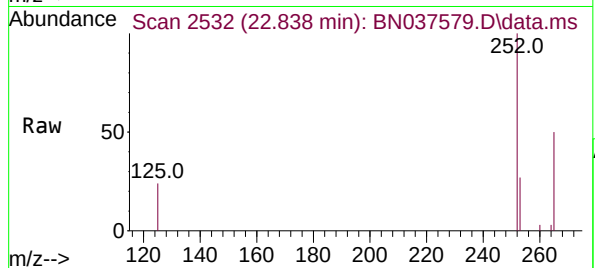
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 27.4 20.0 30.0

125 23.5 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 0.185 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

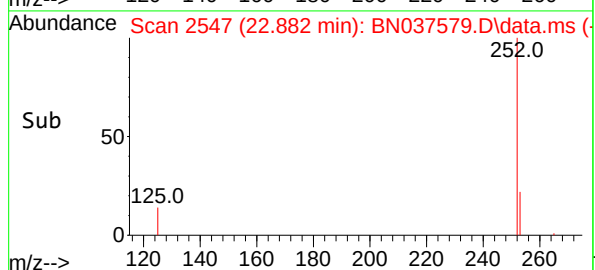
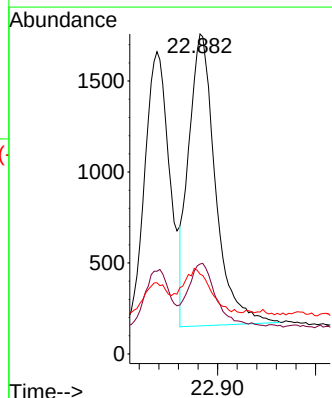
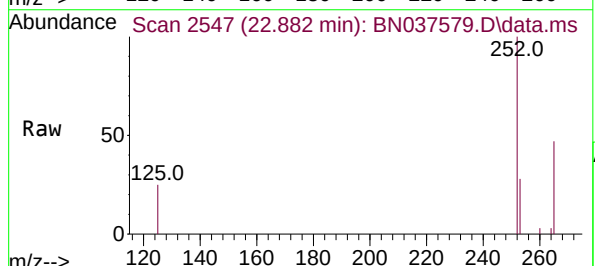
Tgt Ion:252 Resp: 3049

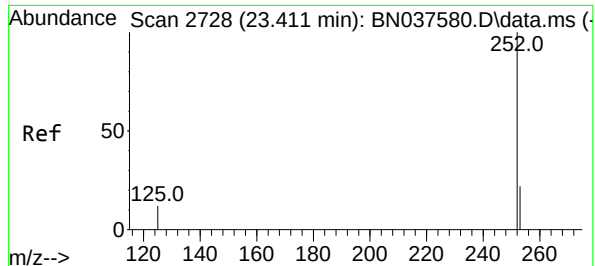
Ion Ratio Lower Upper

252 100

253 28.1 19.9 29.9

125 25.0 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.181 ng

RT: 23.414 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

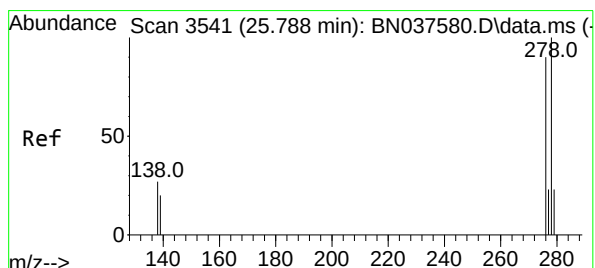
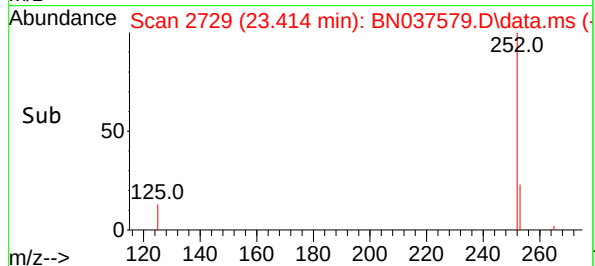
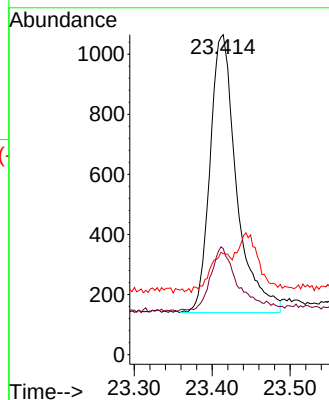
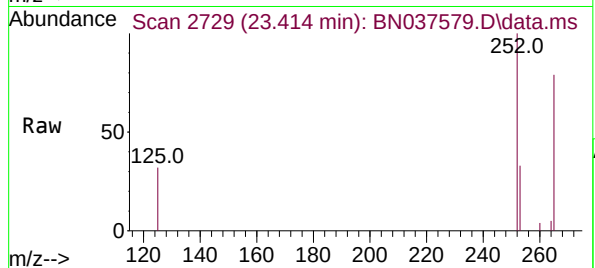
Tgt Ion:252 Resp: 2191

Ion Ratio Lower Upper

252 100

253 33.1 21.6 32.4#

125 31.5 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.171 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

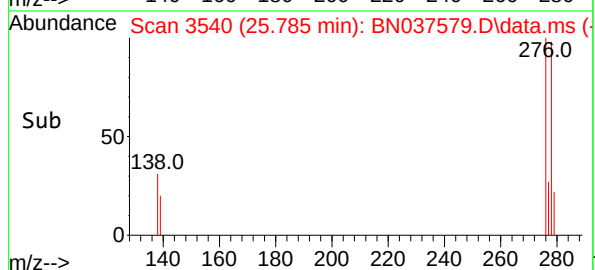
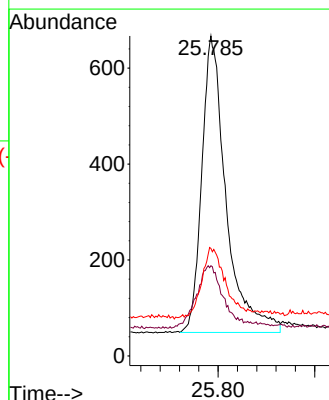
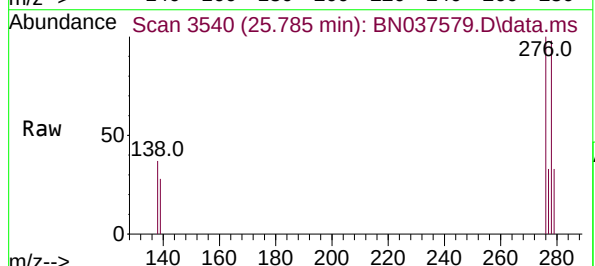
Tgt Ion:278 Resp: 2157

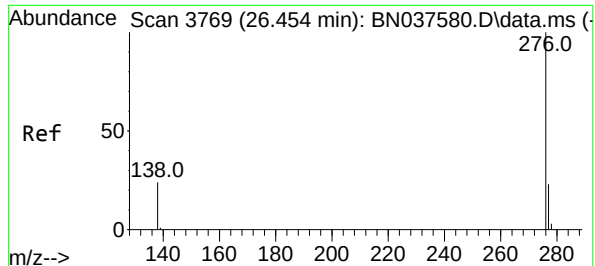
Ion Ratio Lower Upper

278 100

139 28.2 18.3 27.5#

279 33.6 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.185 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037579.D

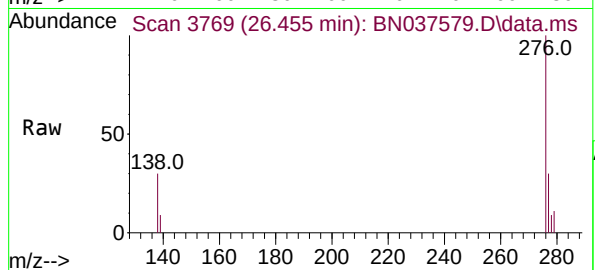
Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



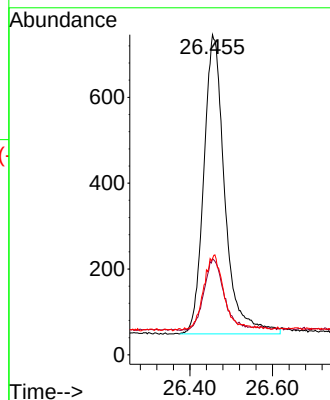
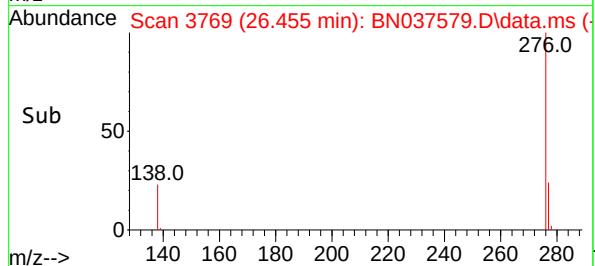
Tgt Ion:276 Resp: 2459

Ion Ratio Lower Upper

276 100

277 30.0 21.0 31.4

138 30.0 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037580.D
 Acq On : 12 Aug 2025 17:39
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Aug 13 04:48:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

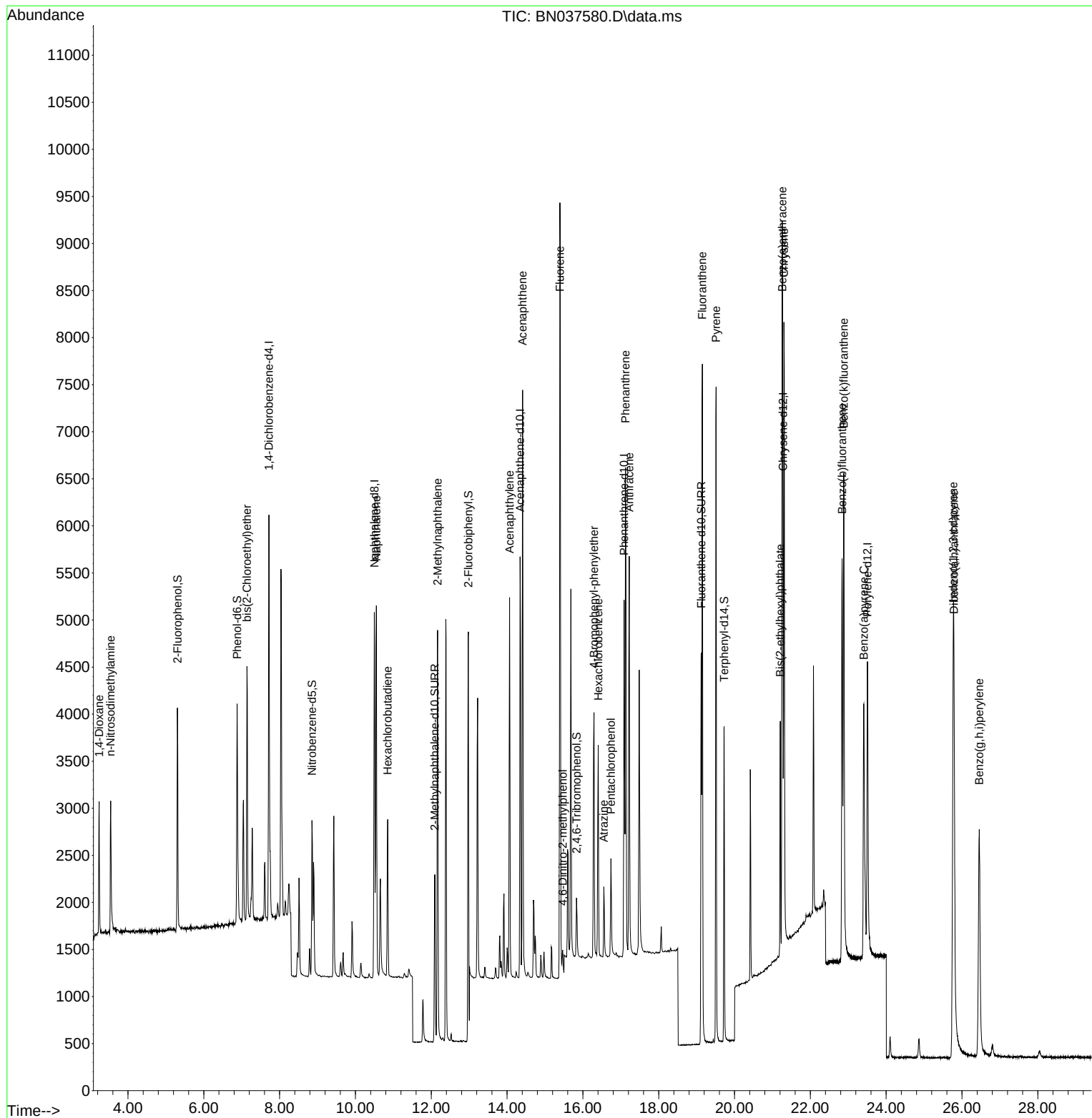
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2104	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5140	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2534	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5032	0.400	ng	0.00
29) Chrysene-d12	21.277	240	4317	0.400	ng	0.00
35) Perylene-d12	23.507	264	4188	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1869	0.392	ng	0.00
5) Phenol-d6	6.879	99	2197	0.383	ng	0.00
8) Nitrobenzene-d5	8.854	82	1348	0.372	ng	0.00
11) 2-Methylnaphthalene-d10	12.090	152	2609	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	396	0.357	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	5829	0.398	ng	0.00
27) Fluoranthene-d10	19.122	212	4801	0.363	ng	0.00
31) Terphenyl-d14	19.726	244	3436	0.387	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	832	0.413	ng	99
3) n-Nitrosodimethylamine	3.543	42	1027	0.399	ng	100
6) bis(2-Chloroethyl)ether	7.139	93	2053	0.397	ng	100
9) Naphthalene	10.551	128	5329	0.389	ng	100
10) Hexachlorobutadiene	10.850	225	1347	0.403	ng	# 100
12) 2-Methylnaphthalene	12.166	142	3264	0.380	ng	100
16) Acenaphthylene	14.067	152	4334	0.382	ng	100
17) Acenaphthene	14.409	154	2969	0.384	ng	100
18) Fluorene	15.392	166	3861	0.382	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	231	0.433	ng	100
21) 4-Bromophenyl-phenylether	16.292	248	1177	0.372	ng	100
22) Hexachlorobenzene	16.404	284	1790	0.399	ng	100
23) Atrazine	16.553	200	654	0.366	ng	100
24) Pentachlorophenol	16.739	266	571	0.363	ng	100
25) Phenanthrene	17.124	178	5887	0.385	ng	100
26) Anthracene	17.223	178	5009	0.370	ng	100
28) Fluoranthene	19.150	202	6535	0.372	ng	100
30) Pyrene	19.512	202	6320	0.392	ng	100
32) Benzo(a)anthracene	21.259	228	5452	0.378	ng	100
33) Chrysene	21.304	228	6185	0.385	ng	100
34) Bis(2-ethylhexyl)phtha...	21.205	149	2252	0.378	ng	100
36) Indeno(1,2,3-cd)pyrene	25.767	276	6753	0.383	ng	100
37) Benzo(b)fluoranthene	22.838	252	5604	0.353	ng	100
38) Benzo(k)fluoranthene	22.882	252	6915	0.386	ng	100
39) Benzo(a)pyrene	23.411	252	4812	0.366	ng	100
40) Dibenzo(a,h)anthracene	25.788	278	5118	0.374	ng	100
41) Benzo(g,h,i)perylene	26.454	276	5284	0.366	ng	100

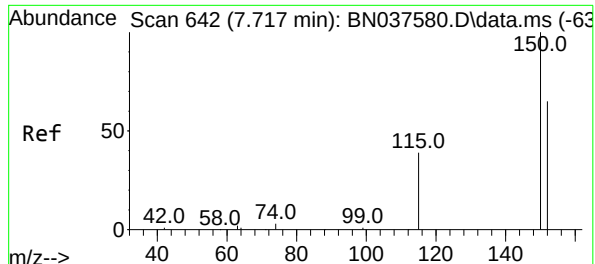
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037580.D
Acq On : 12 Aug 2025 17:39
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Aug 13 04:48:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

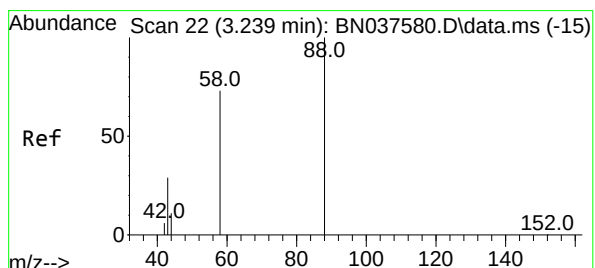
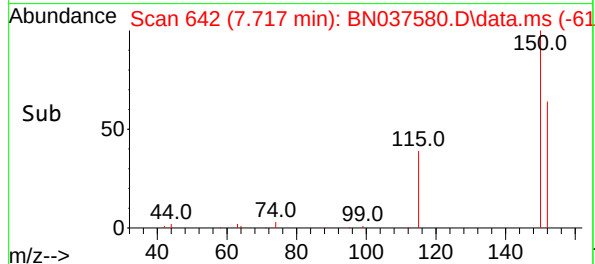
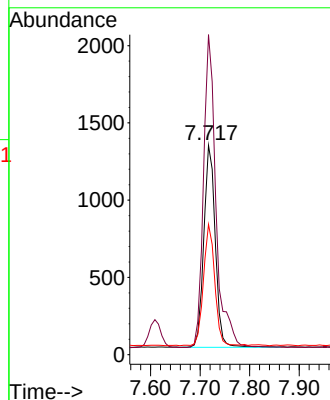
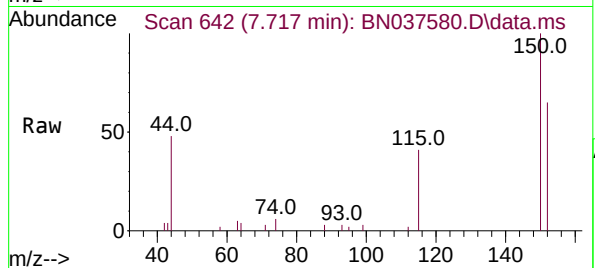




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

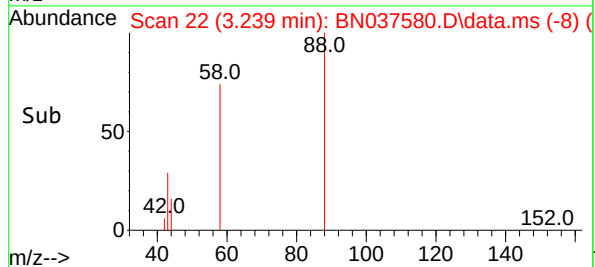
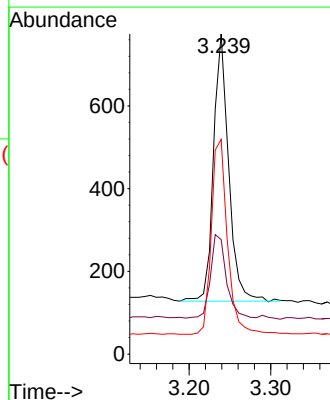
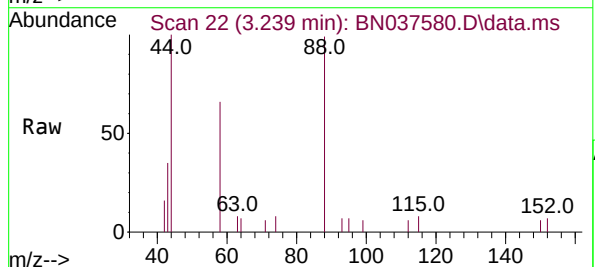
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

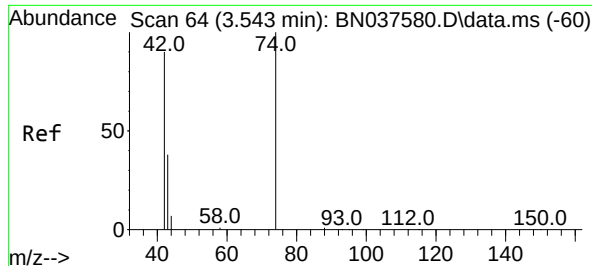
Tgt Ion:152 Resp: 2104
Ion Ratio Lower Upper
152 100
150 152.8 122.2 183.4
115 62.2 49.8 74.6



#2
1,4-Dioxane
Concen: 0.413 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion: 88 Resp: 832
Ion Ratio Lower Upper
88 100
43 33.2 25.8 38.6
58 77.6 61.2 91.8

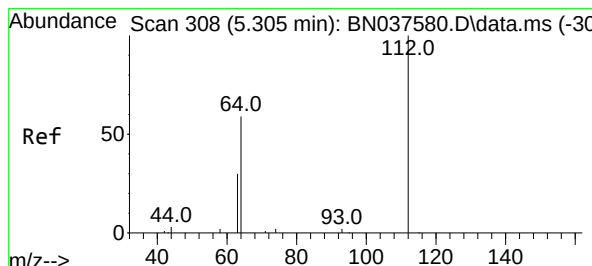
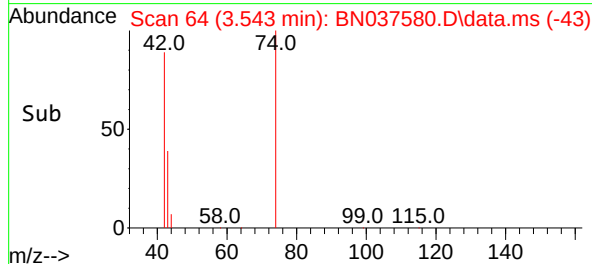
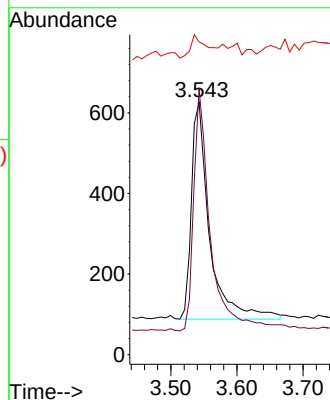
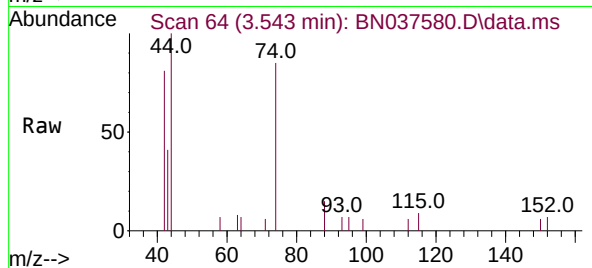




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

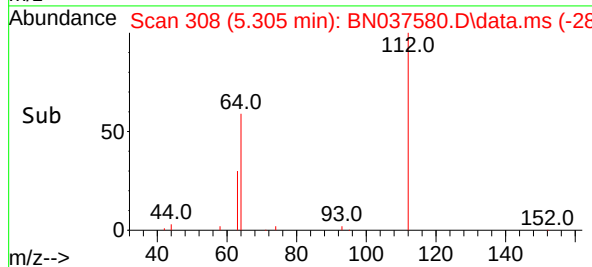
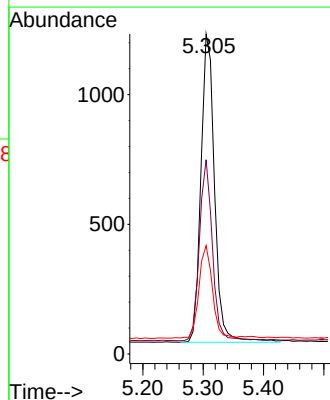
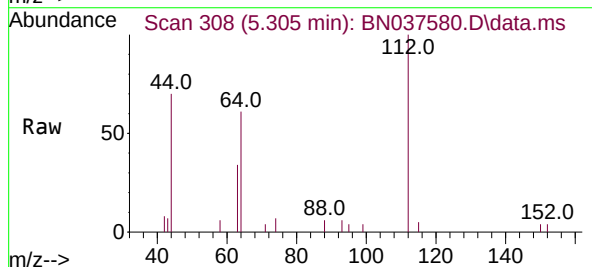
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

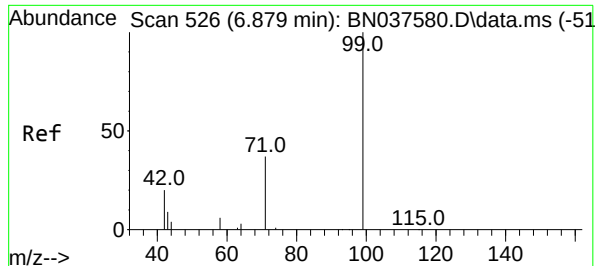
Tgt Ion: 42 Resp: 1027
Ion Ratio Lower Upper
42 100
74 102.7 82.0 123.0
44 9.8 7.9 11.9



#4
2-Fluorophenol
Concen: 0.392 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion: 112 Resp: 1869
Ion Ratio Lower Upper
112 100
64 56.1 44.9 67.3
63 29.3 23.4 35.2





#5

Phenol-d6

Concen: 0.383 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

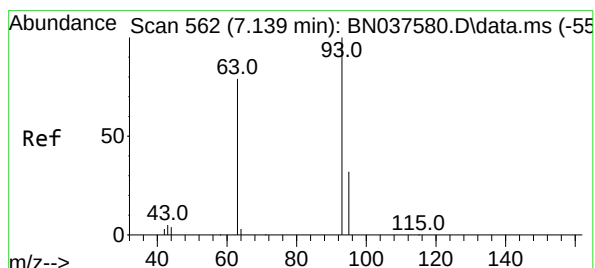
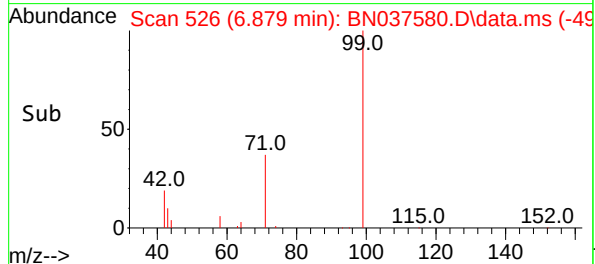
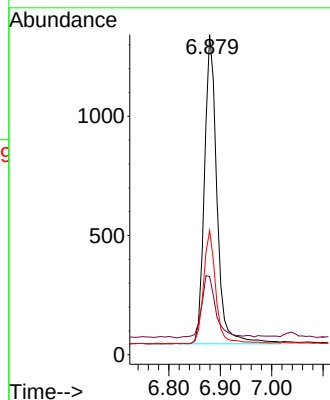
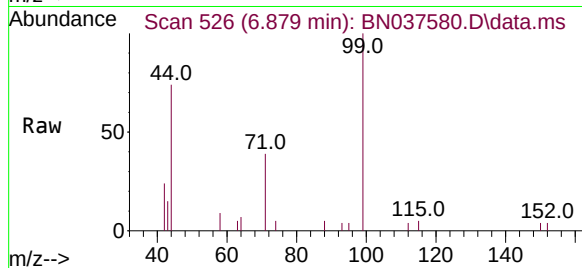
Tgt Ion: 99 Resp: 2197

Ion Ratio Lower Upper

99 100

42 23.1 18.5 27.7

71 35.7 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.397 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

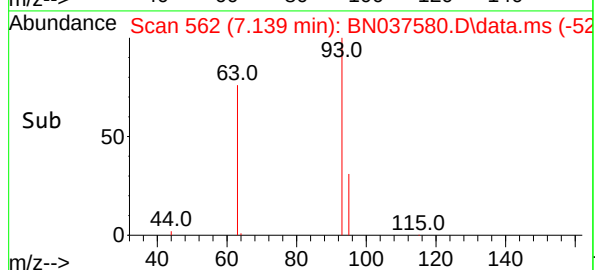
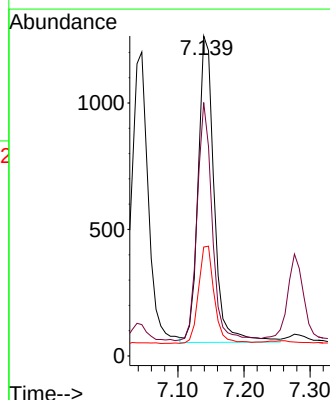
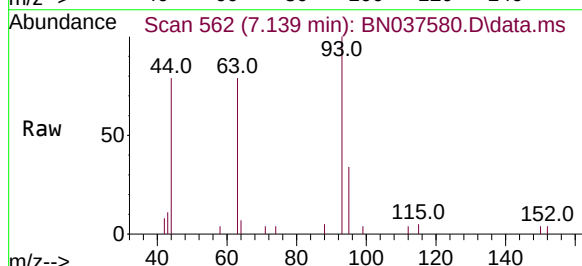
Tgt Ion: 93 Resp: 2053

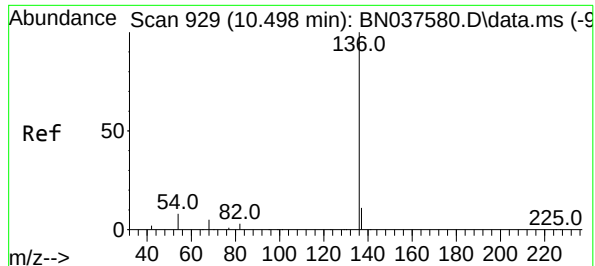
Ion Ratio Lower Upper

93 100

63 72.5 58.0 87.0

95 31.1 24.9 37.3

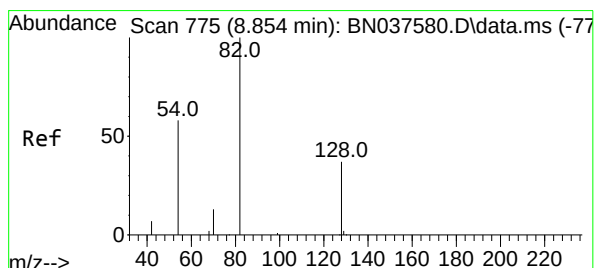
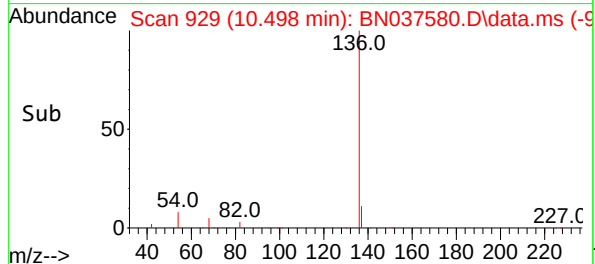
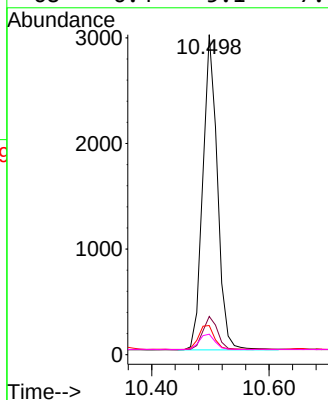
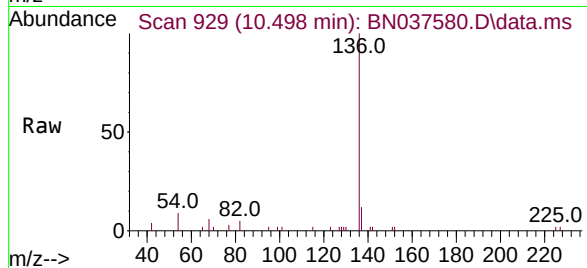




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

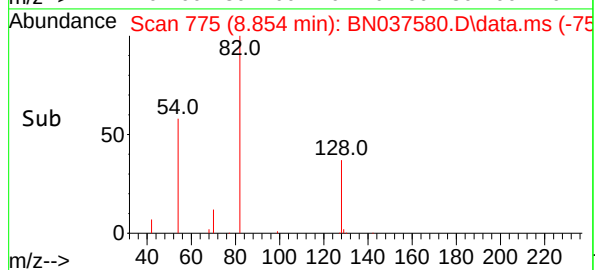
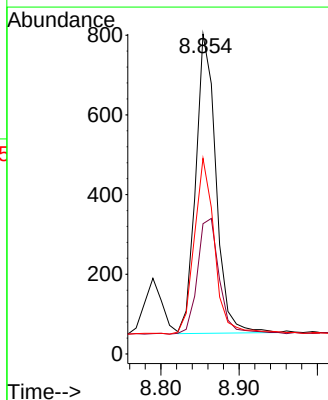
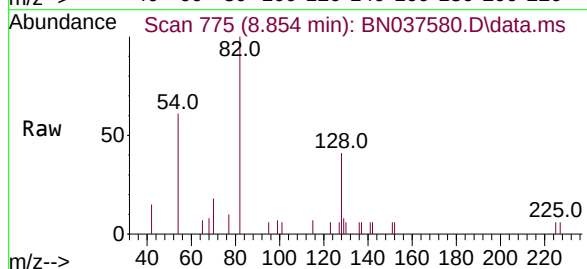
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

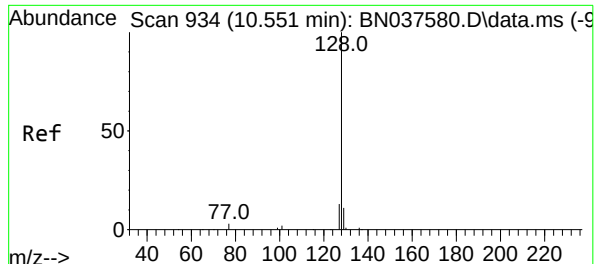
Tgt Ion:	136	Resp:	5140
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.5	14.3
54	9.1	7.3	10.9
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.372 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:	82	Resp:	1348
Ion	Ratio	Lower	Upper
82	100		
128	40.7	32.6	48.8
54	61.1	48.9	73.3

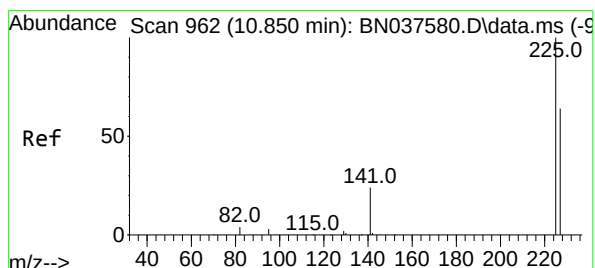
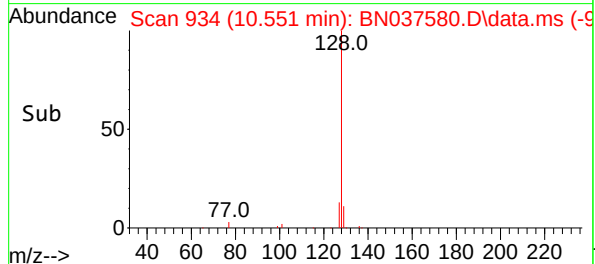
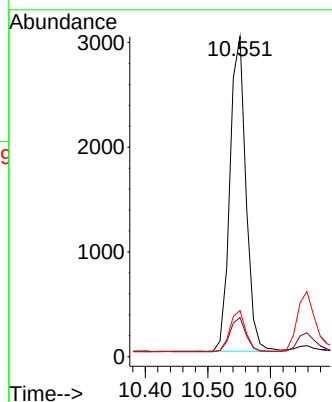
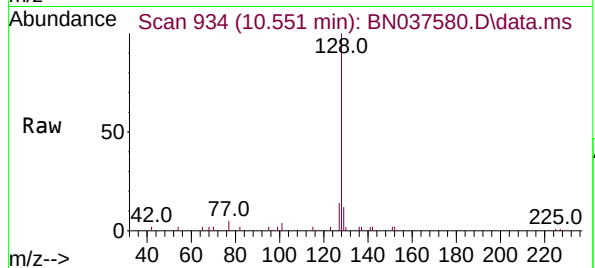




#9
Naphthalene
Concen: 0.389 ng
RT: 10.551 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

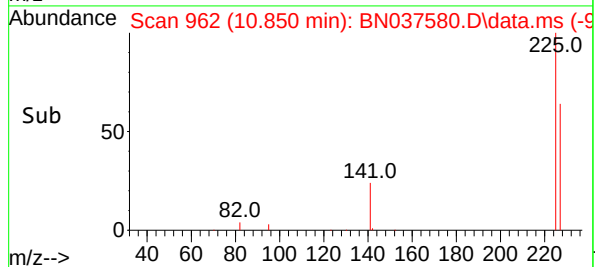
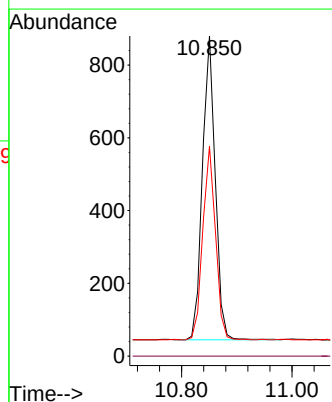
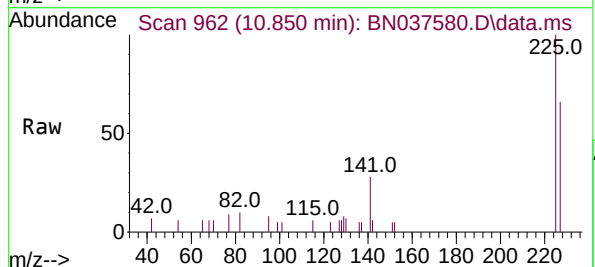
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

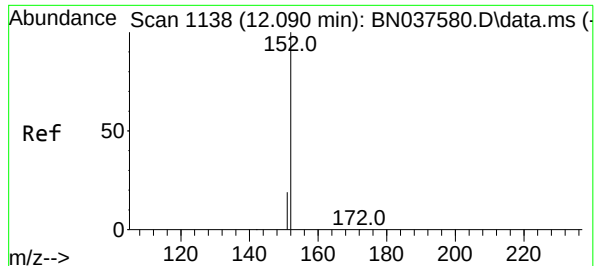
Tgt Ion:128 Resp: 5329
Ion Ratio Lower Upper
128 100
129 12.2 9.8 14.6
127 14.4 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.403 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:225 Resp: 1347
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.8 76.2

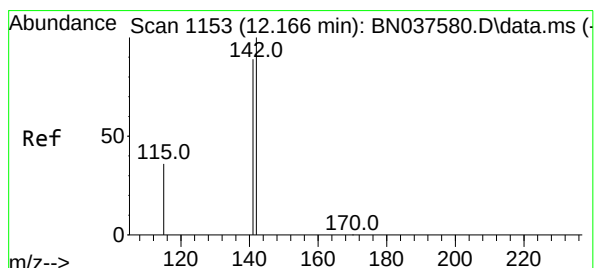
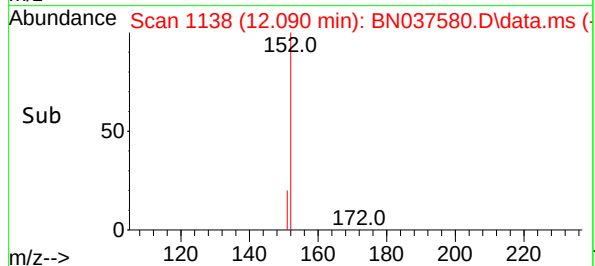
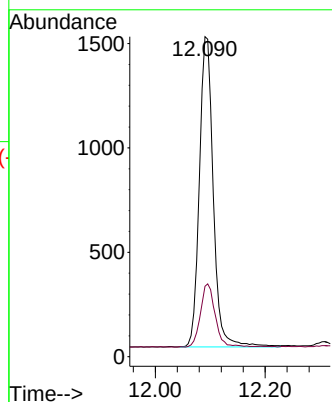
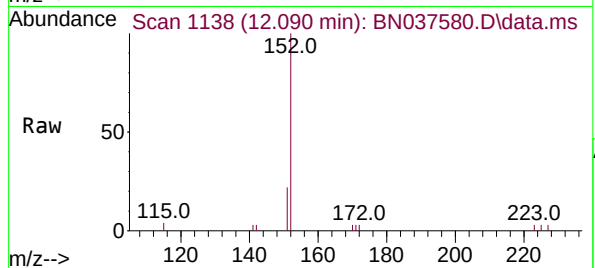




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.090 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

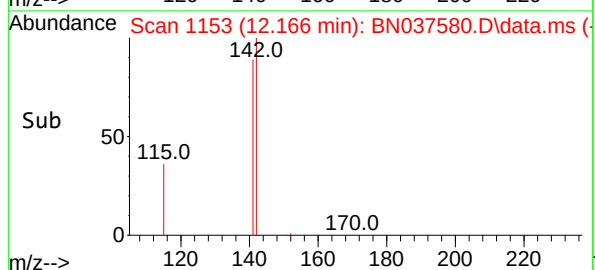
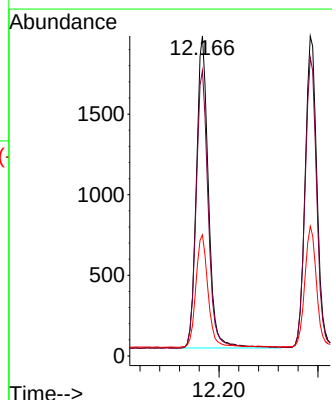
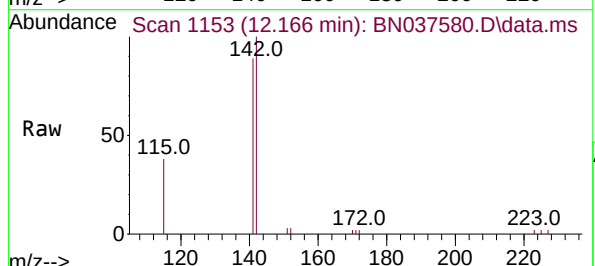
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

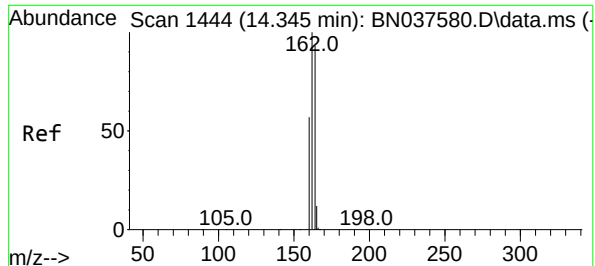
Tgt Ion:152 Resp: 2609
Ion Ratio Lower Upper
152 100
151 21.6 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 12.166 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:142 Resp: 3264
Ion Ratio Lower Upper
142 100
141 89.2 71.4 107.0
115 37.8 30.2 45.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 1444

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

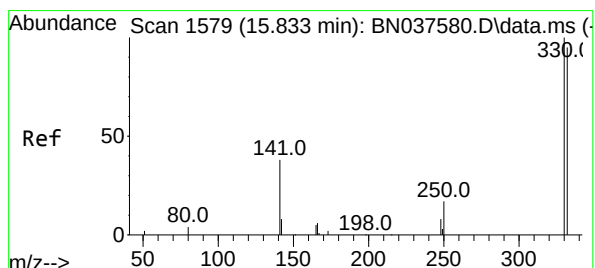
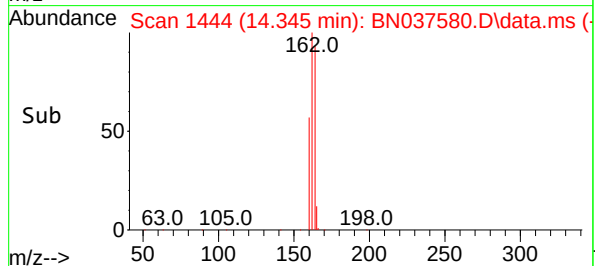
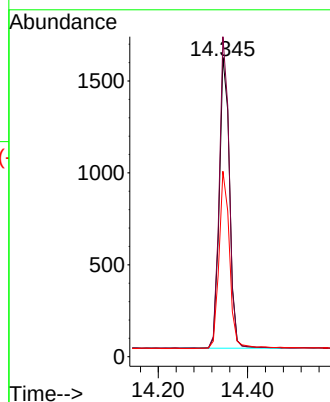
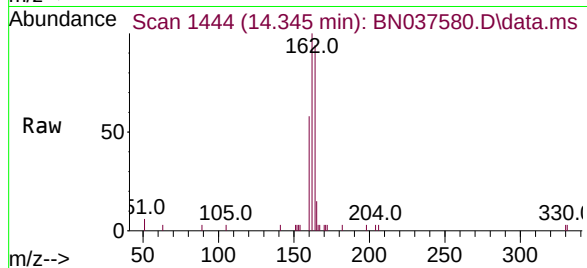
Tgt Ion:164 Resp: 2534

Ion Ratio Lower Upper

164 100

162 106.9 85.5 128.3

160 61.9 49.5 74.3



#14

2,4,6-Tribromophenol

Concen: 0.357 ng

RT: 15.833 min Scan# 1579

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

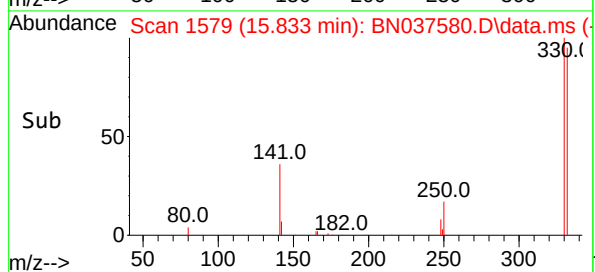
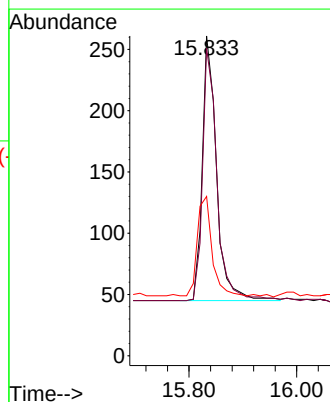
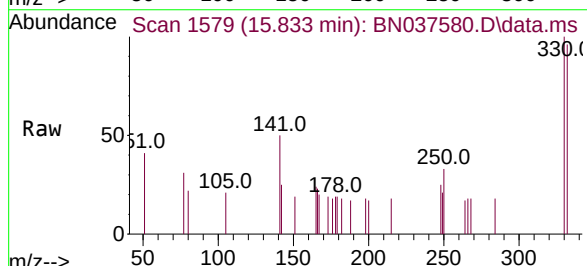
Tgt Ion:330 Resp: 396

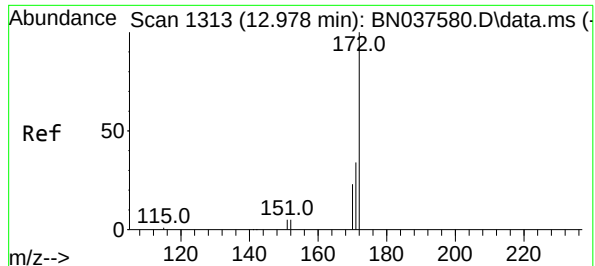
Ion Ratio Lower Upper

330 100

332 96.7 77.4 116.0

141 38.6 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 0.398 ng

RT: 12.978 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

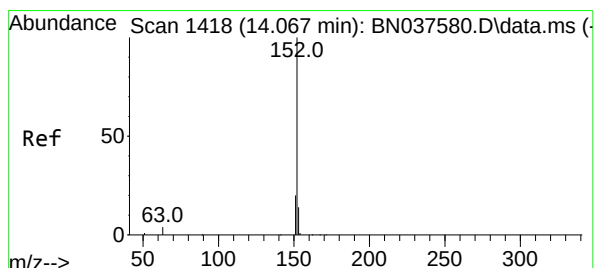
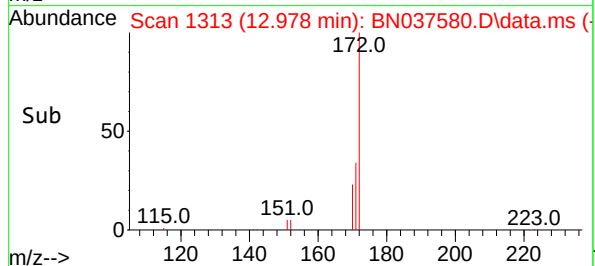
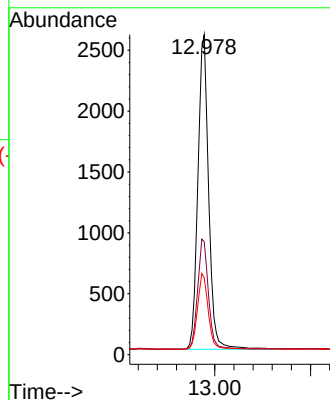
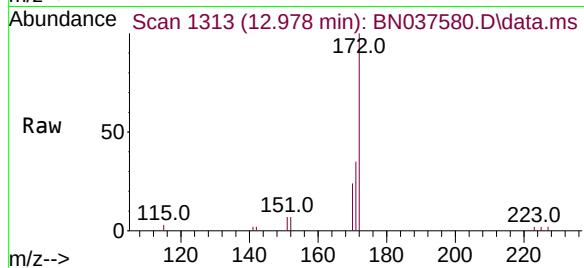
Tgt Ion:172 Resp: 5829

Ion Ratio Lower Upper

172 100

171 35.3 28.2 42.4

170 24.0 19.2 28.8



#16

Acenaphthylene

Concen: 0.382 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

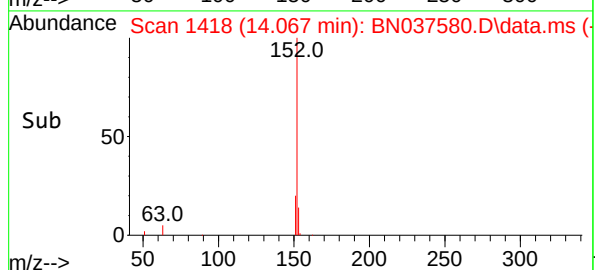
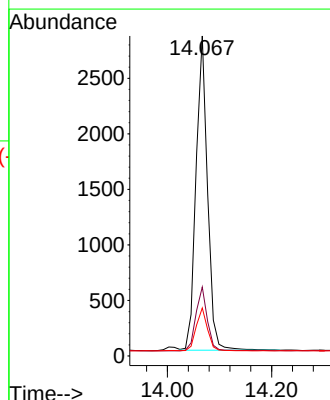
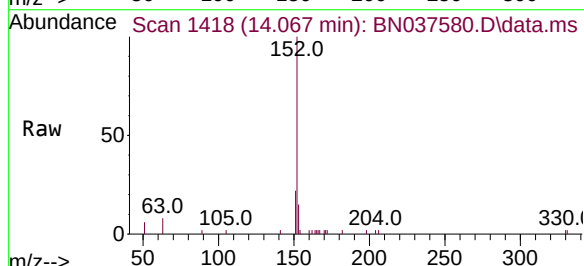
Tgt Ion:152 Resp: 4334

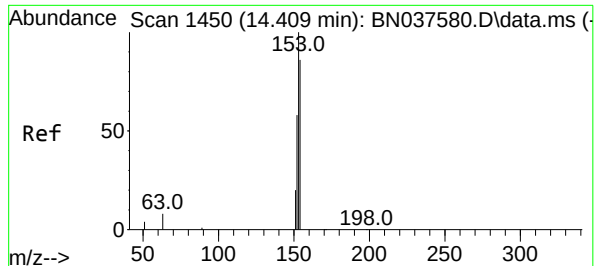
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 13.4 10.7 16.1





#17

Acenaphthene

Concen: 0.384 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

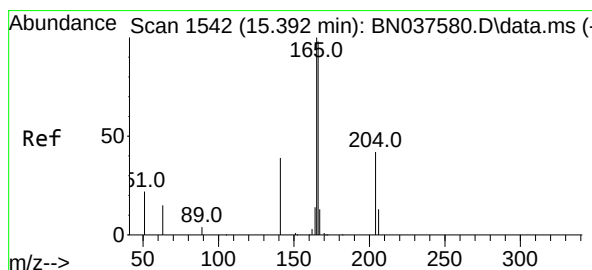
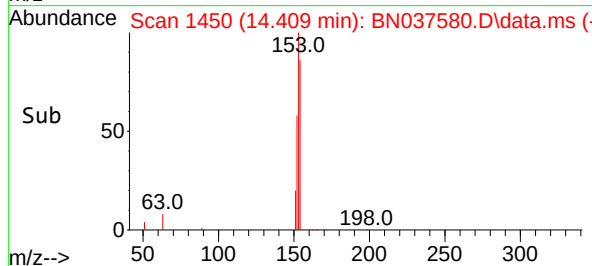
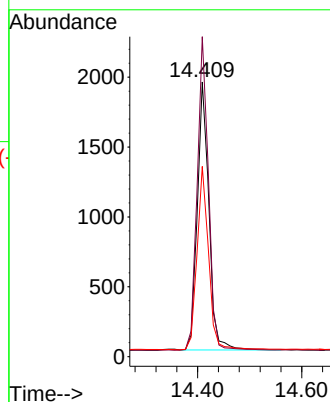
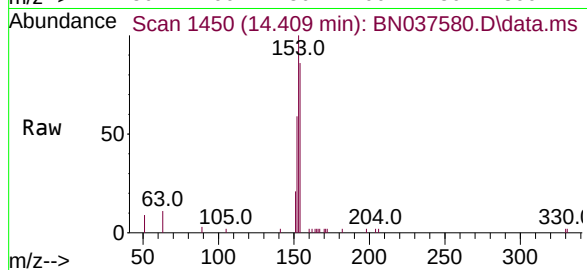
Tgt Ion:154 Resp: 2969

Ion Ratio Lower Upper

154 100

153 113.2 90.6 135.8

152 68.6 54.9 82.3



#18

Fluorene

Concen: 0.382 ng

RT: 15.392 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

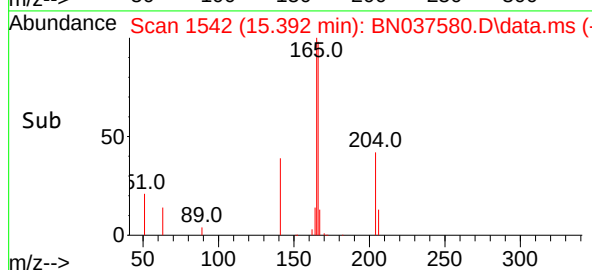
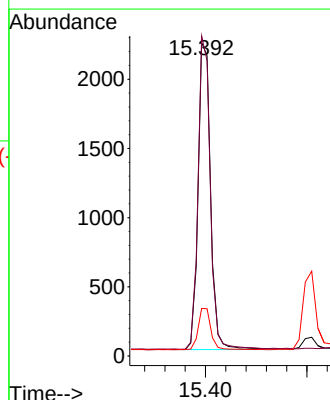
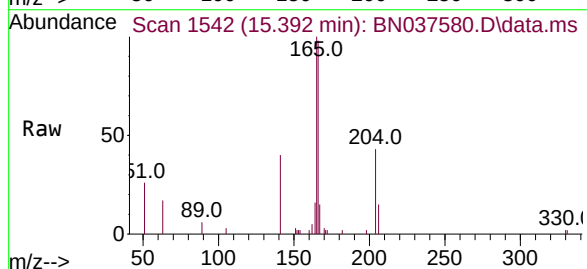
Tgt Ion:166 Resp: 3861

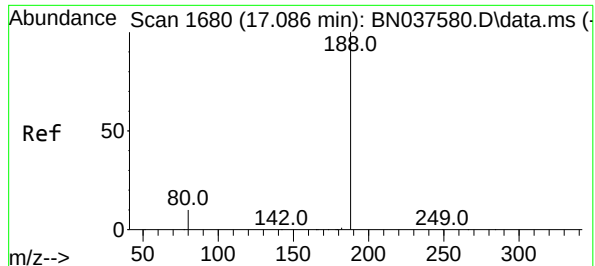
Ion Ratio Lower Upper

166 100

165 98.6 78.9 118.3

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

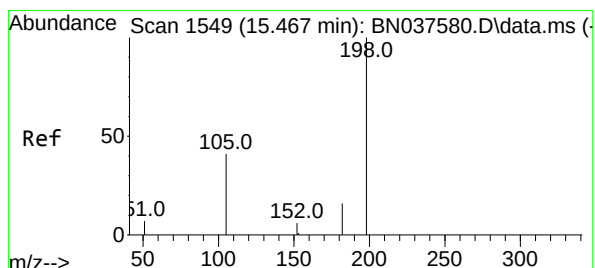
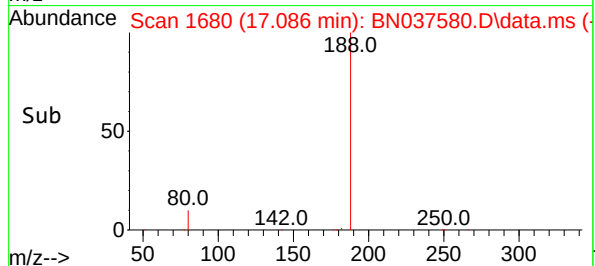
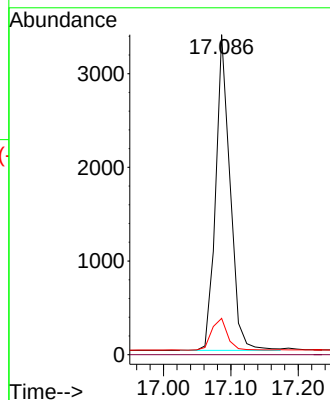
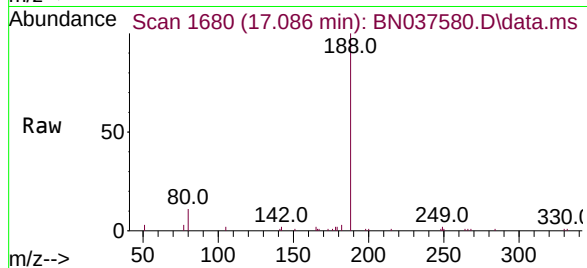
Tgt Ion:188 Resp: 5032

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

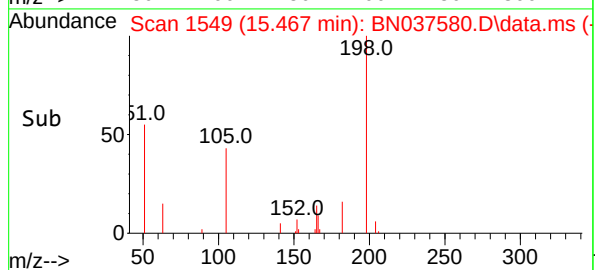
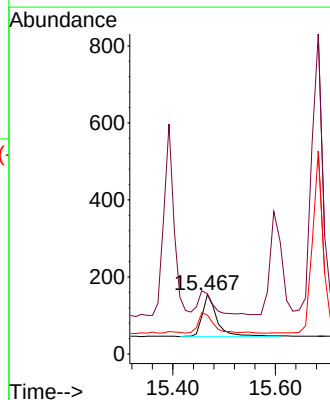
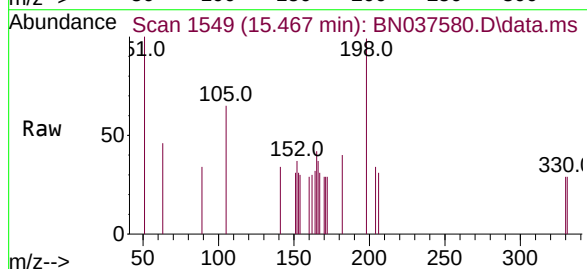
Tgt Ion:198 Resp: 231

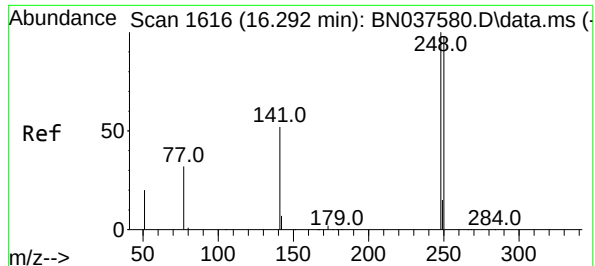
Ion Ratio Lower Upper

198 100

51 101.3 81.0 121.6

105 65.6 52.5 78.7

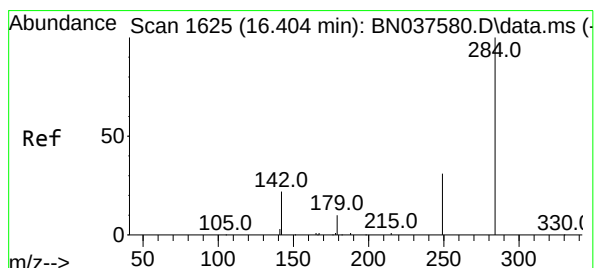
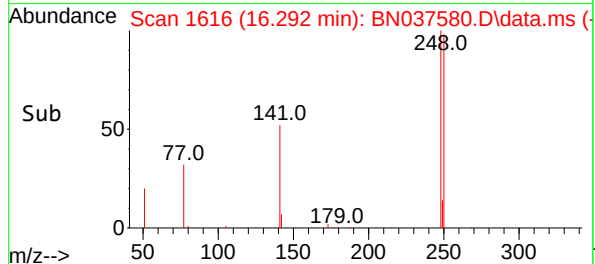
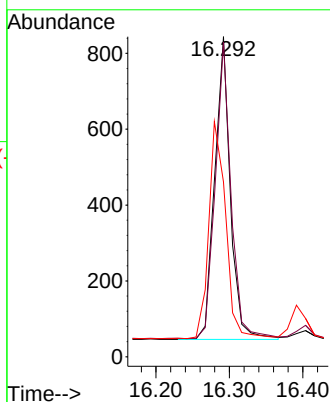
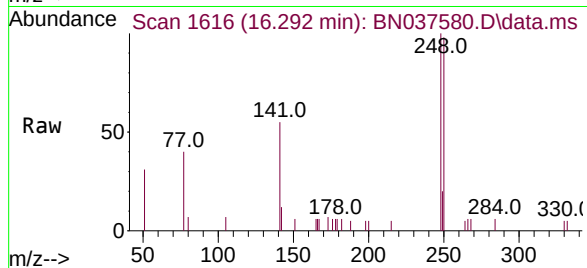




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

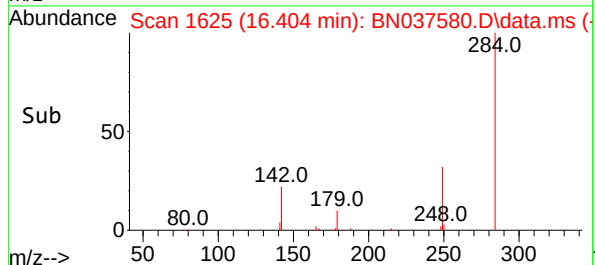
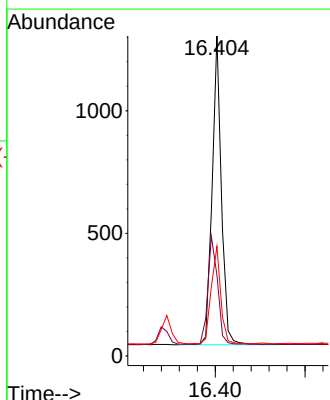
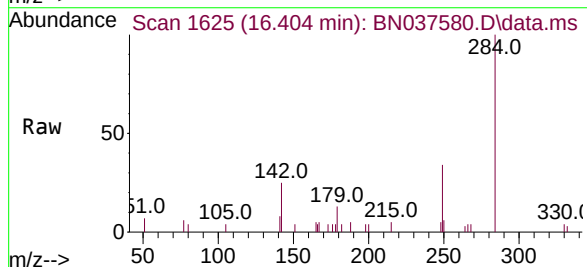
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

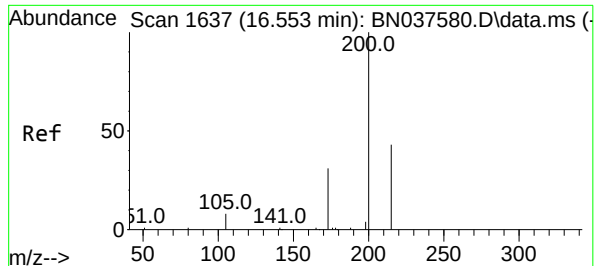
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.6	118.0
141	54.6	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.399 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.9	29.8	44.6
249	32.5	26.0	39.0

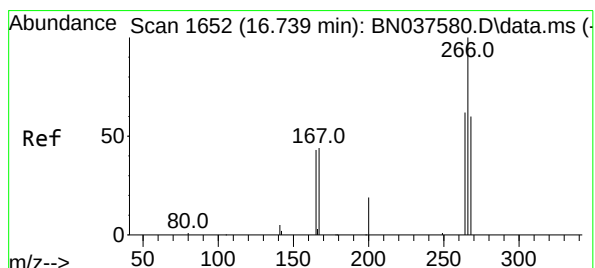
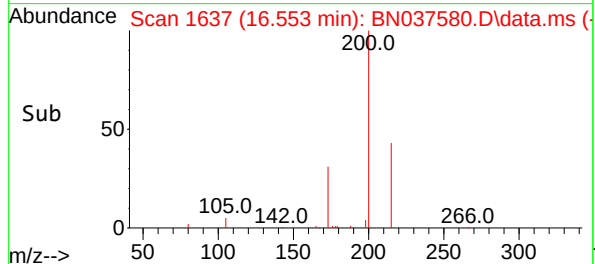
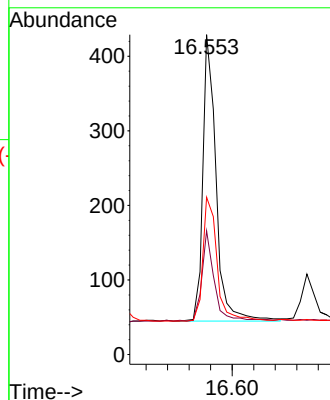
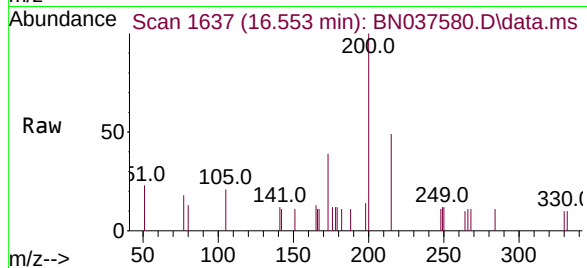




#23
Atrazine
Concen: 0.366 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

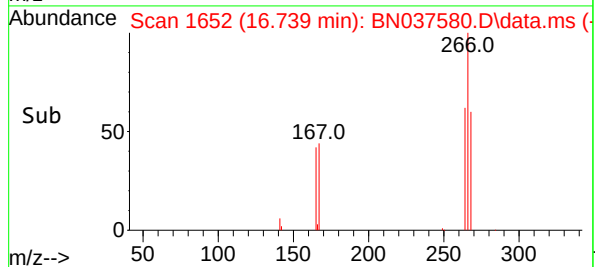
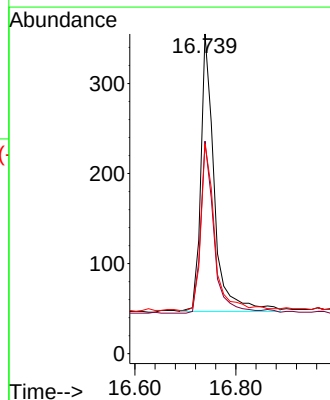
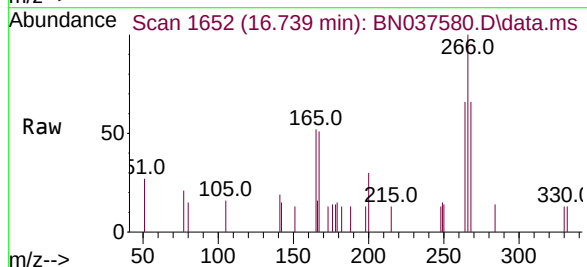
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

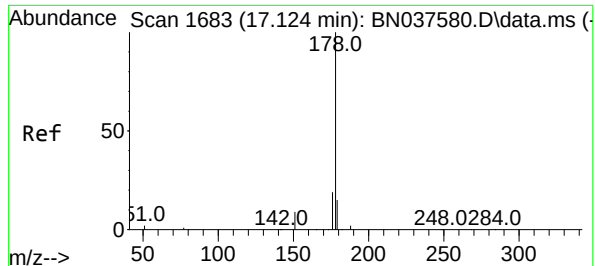
Tgt Ion	Ratio	Lower	Upper
200	100		
173	38.7	31.0	46.4
215	49.2	39.4	59.0



#24
Pentachlorophenol
Concen: 0.363 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.6	74.4
268	61.5	49.2	73.8





#25

Phenanthrene

Concen: 0.385 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

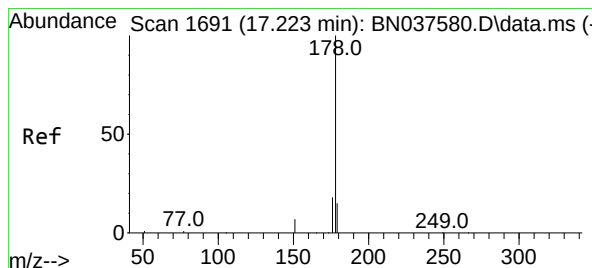
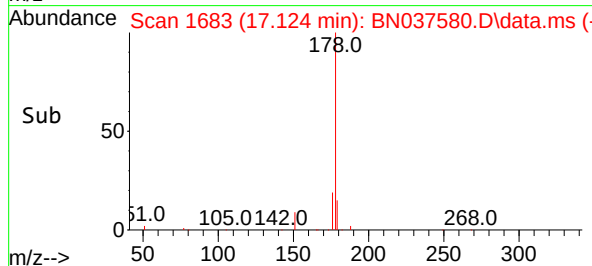
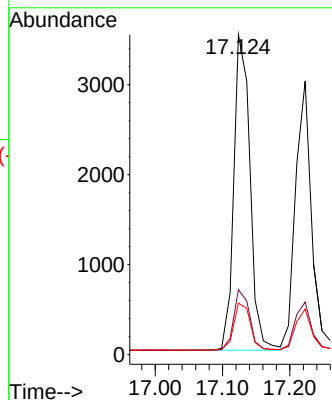
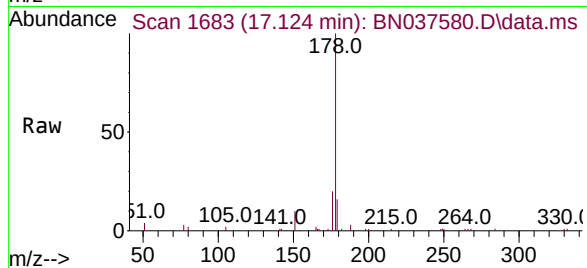
Tgt Ion:178 Resp: 5887

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.370 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

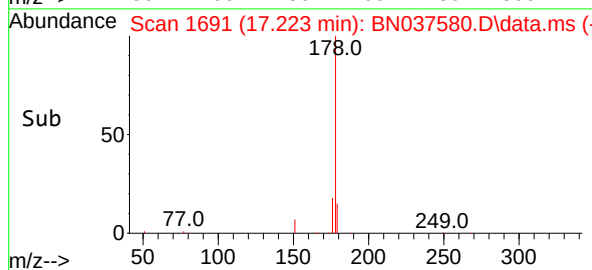
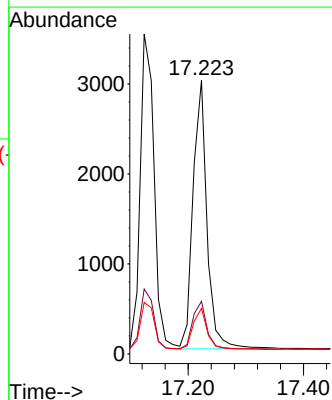
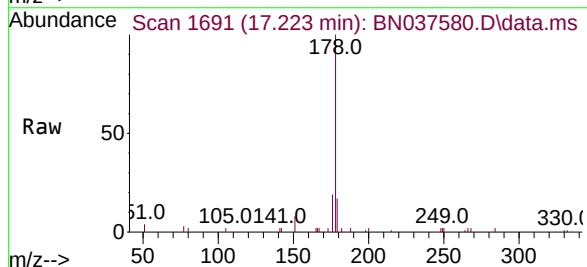
Tgt Ion:178 Resp: 5009

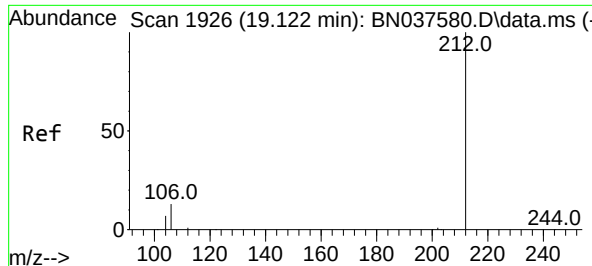
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.122 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

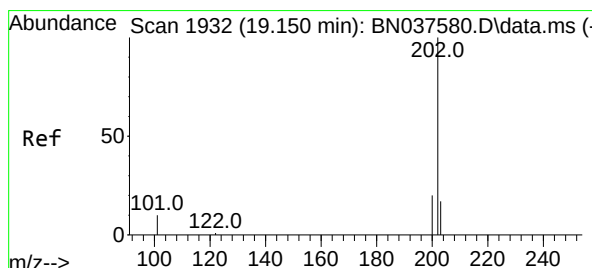
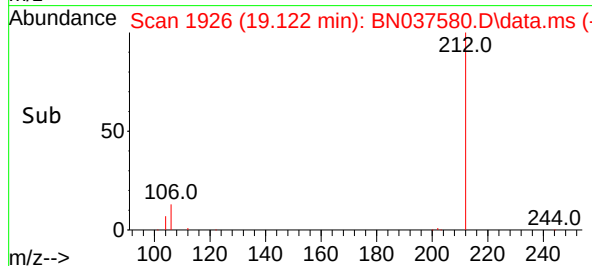
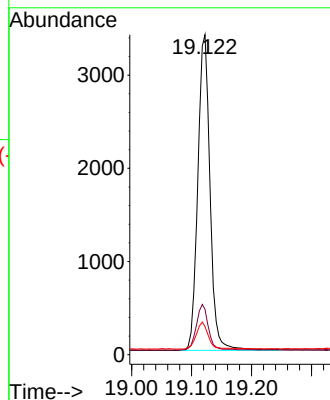
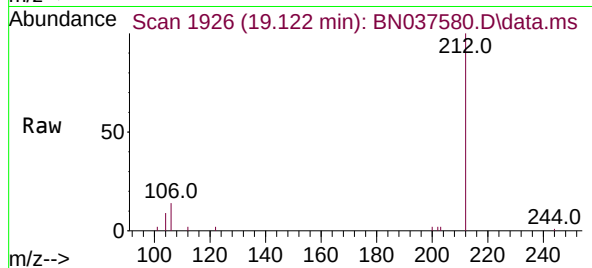
Tgt Ion:212 Resp: 4801

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

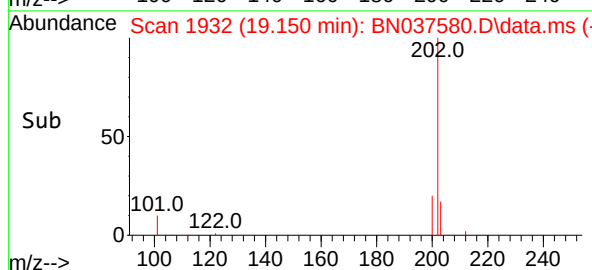
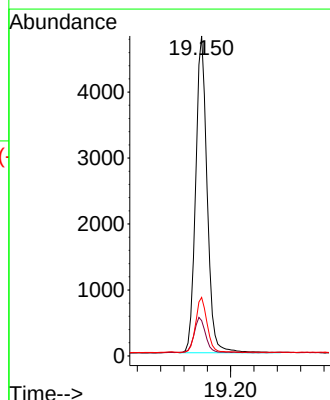
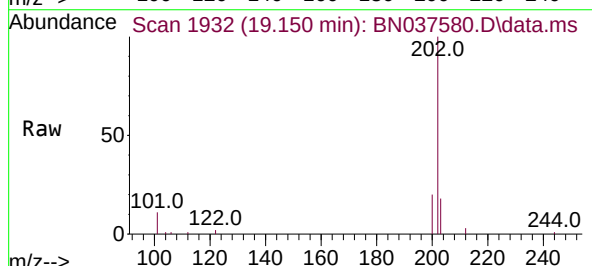
Tgt Ion:202 Resp: 6535

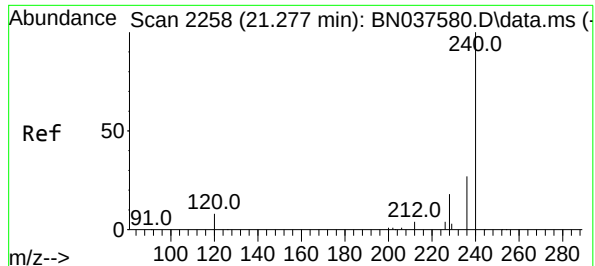
Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

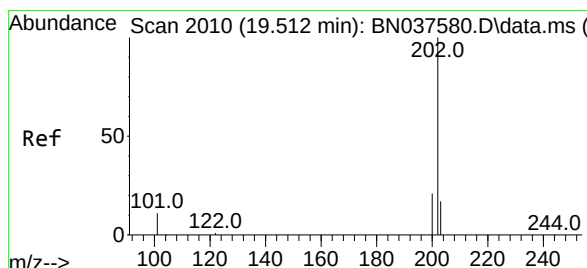
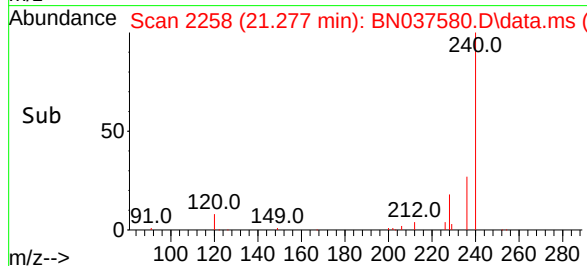
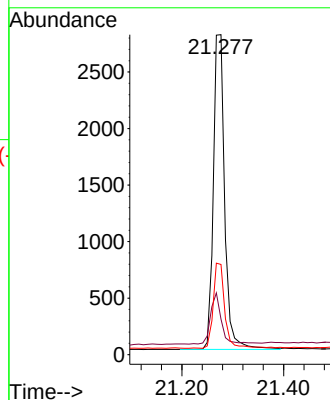
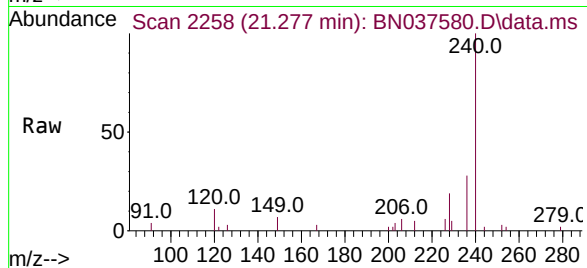
Tgt Ion:240 Resp: 4317

Ion Ratio Lower Upper

240 100

120 11.1 8.9 13.3

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.392 ng

RT: 19.512 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

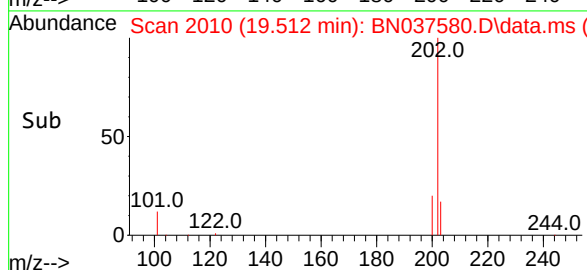
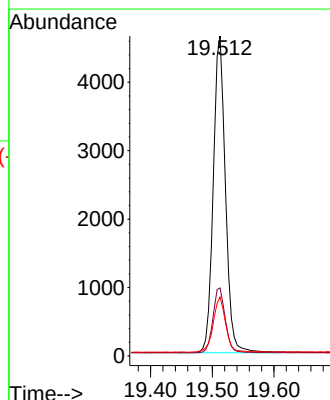
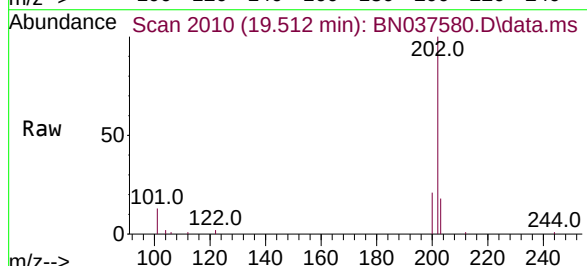
Tgt Ion:202 Resp: 6320

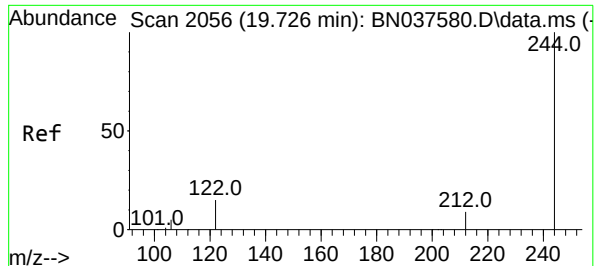
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.9 14.3 21.5

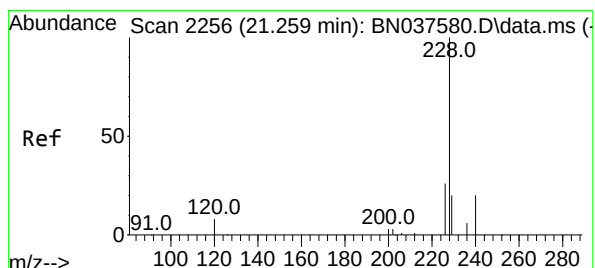
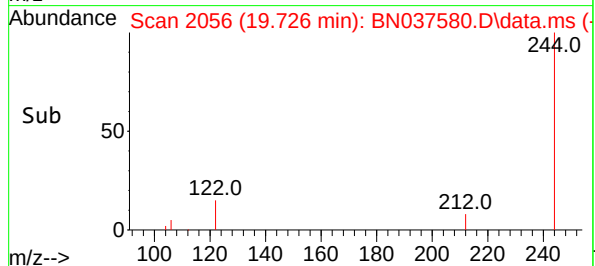
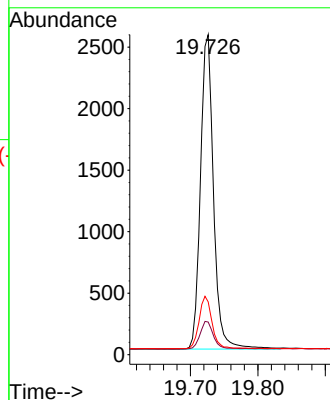
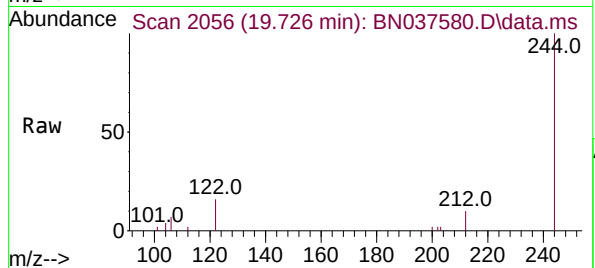




#31
Terphenyl-d14
Concen: 0.387 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

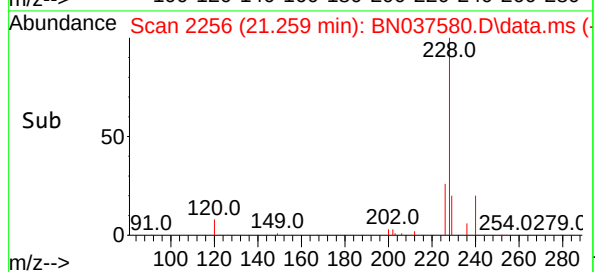
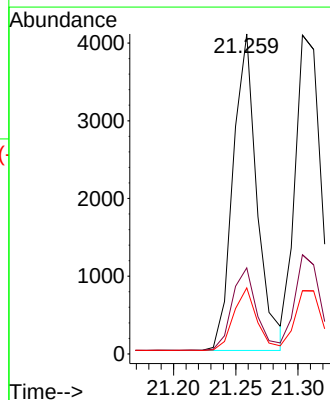
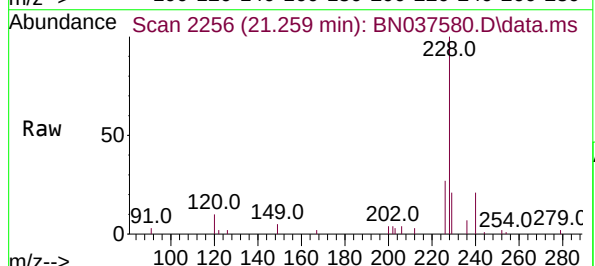
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

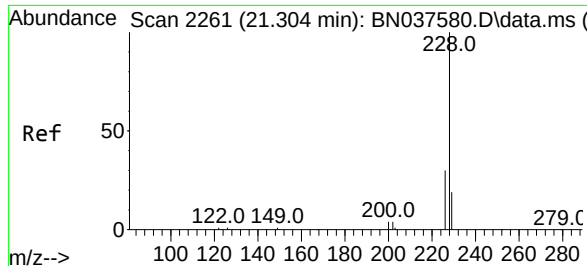
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	8.2	12.2
122	16.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.5	32.3
229	20.6	16.5	24.7





#33

Chrysene

Concen: 0.385 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

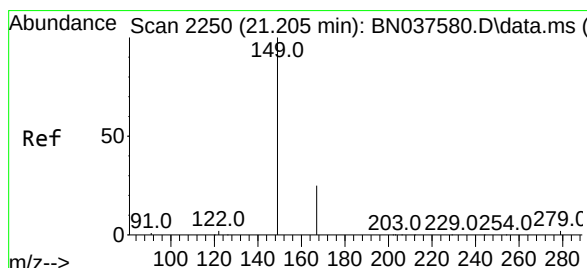
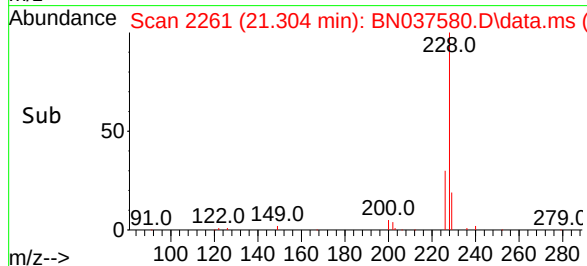
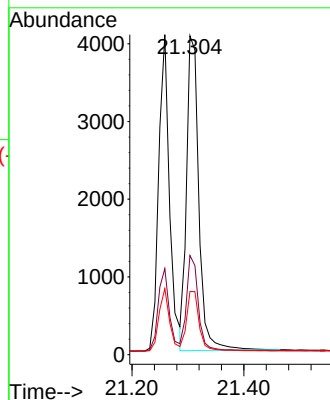
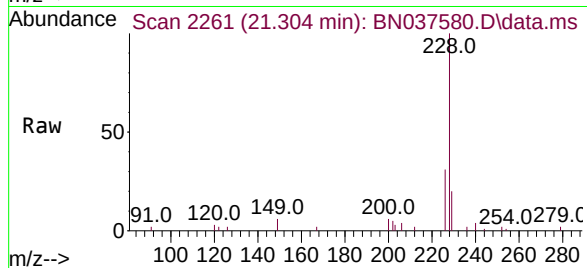
Tgt Ion:228 Resp: 6185

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.378 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

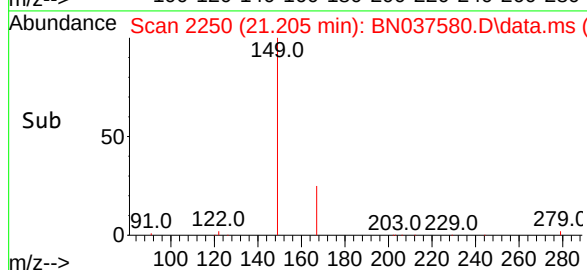
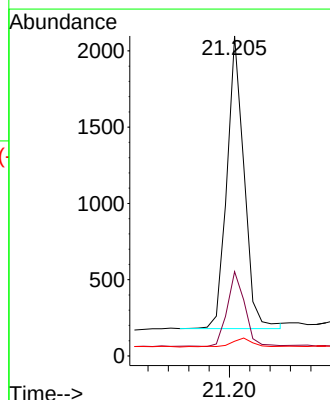
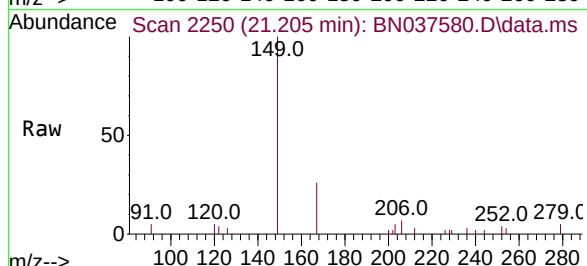
Tgt Ion:149 Resp: 2252

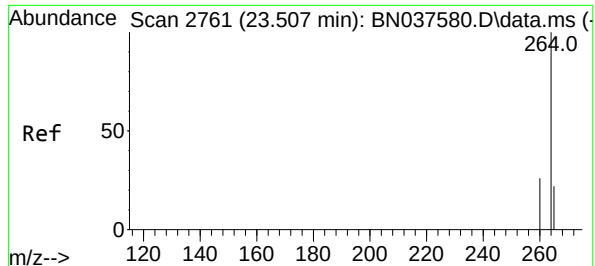
Ion Ratio Lower Upper

149 100

167 25.6 20.5 30.7

279 3.8 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.507 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

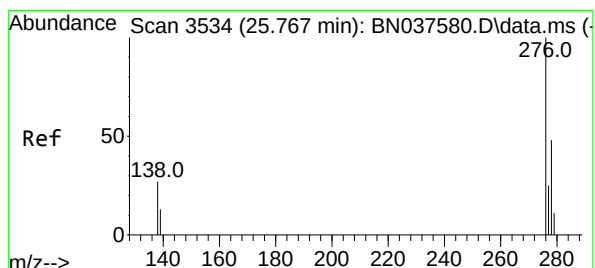
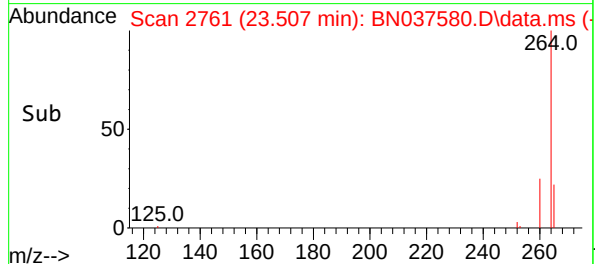
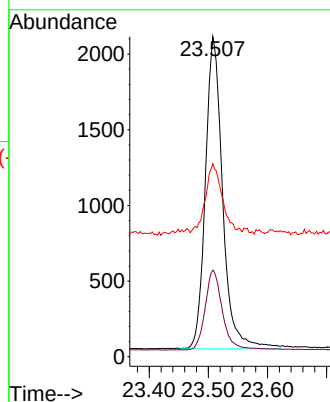
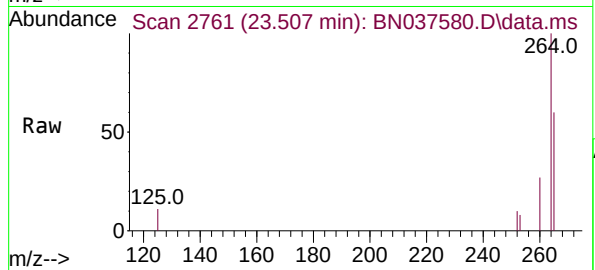
Tgt Ion:264 Resp: 4188

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 60.3 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.383 ng

RT: 25.767 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

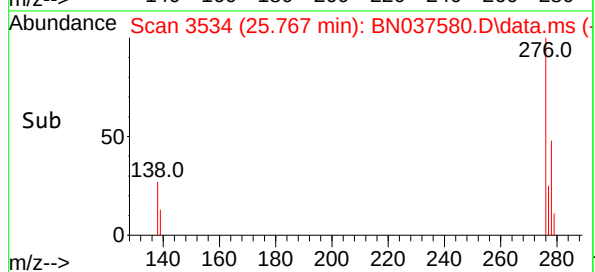
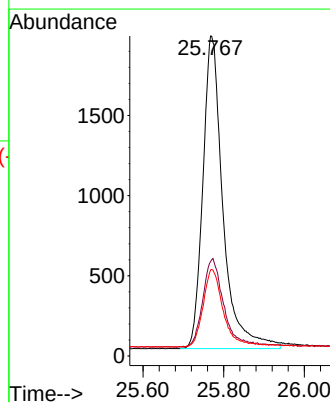
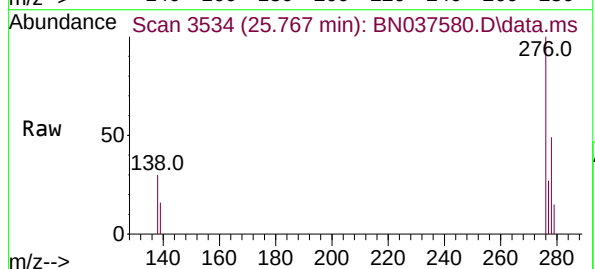
Tgt Ion:276 Resp: 6753

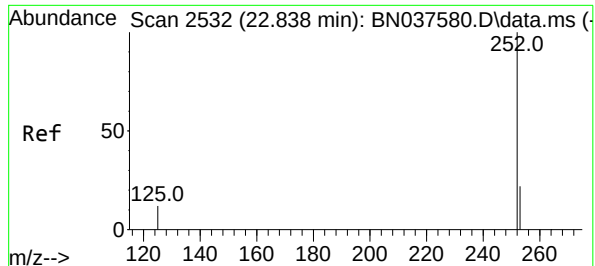
Ion Ratio Lower Upper

276 100

138 29.1 23.3 34.9

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.353 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

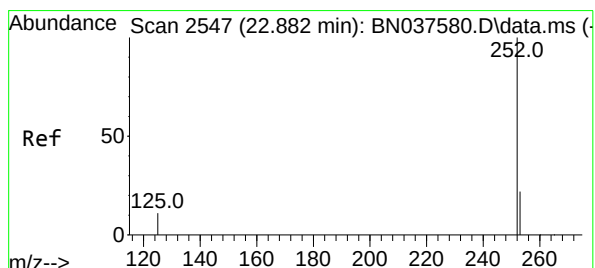
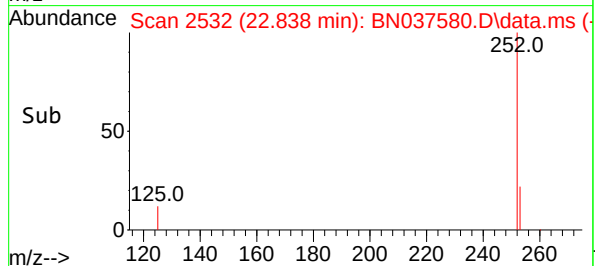
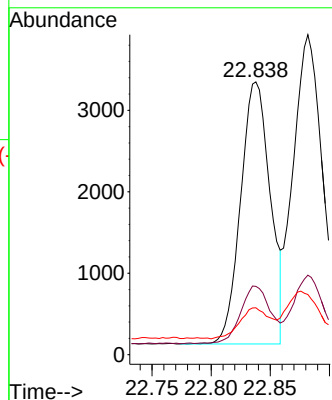
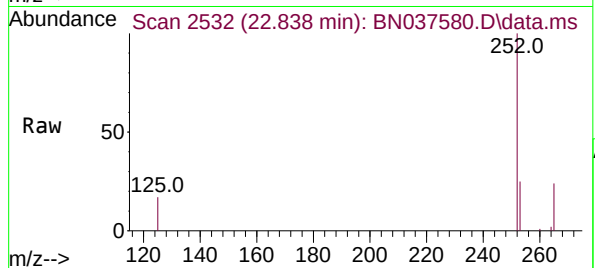
Tgt Ion:252 Resp: 5604

Ion Ratio Lower Upper

252 100

253 25.0 20.0 30.0

125 17.2 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.386 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

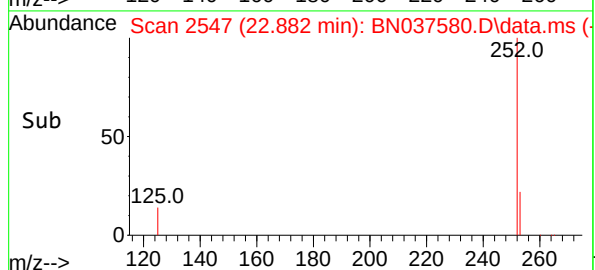
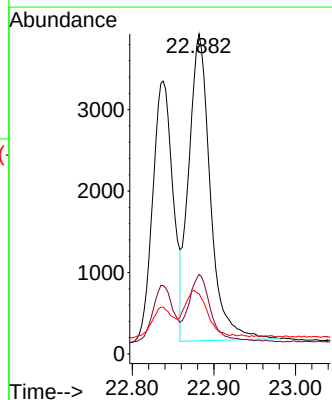
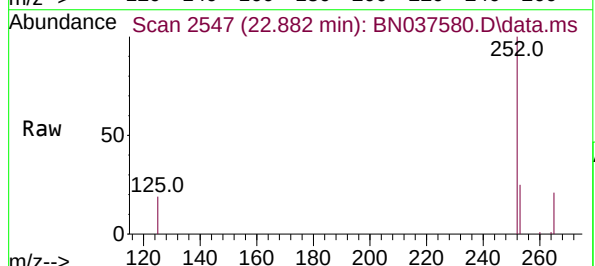
Tgt Ion:252 Resp: 6915

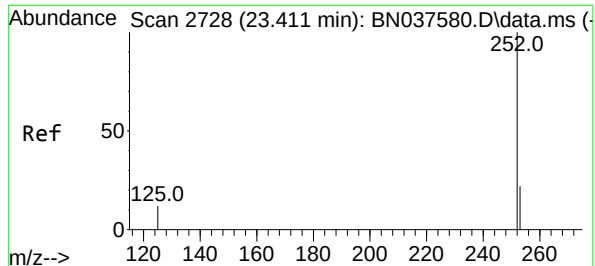
Ion Ratio Lower Upper

252 100

253 24.9 19.9 29.9

125 18.8 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

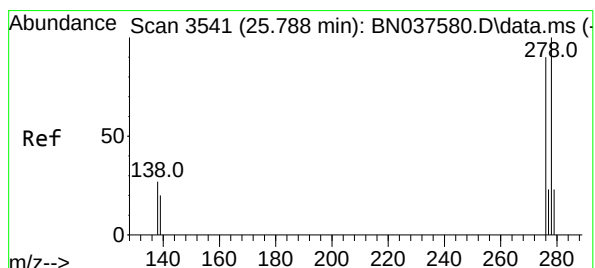
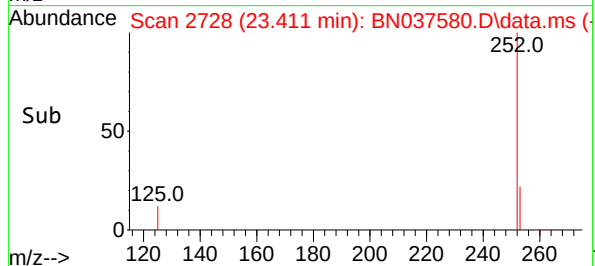
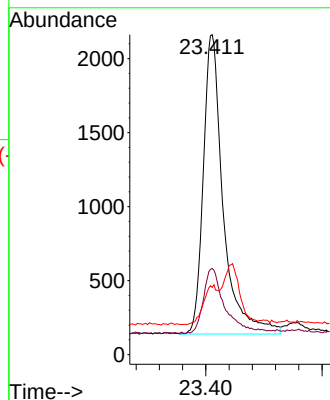
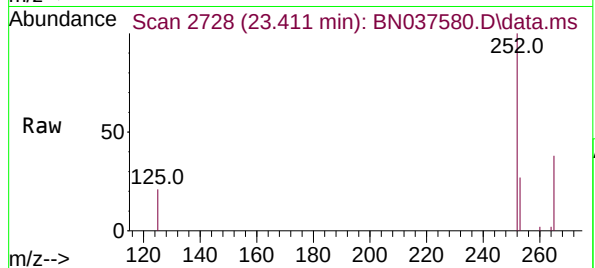
Tgt Ion:252 Resp: 4812

Ion Ratio Lower Upper

252 100

253 27.0 21.6 32.4

125 21.0 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

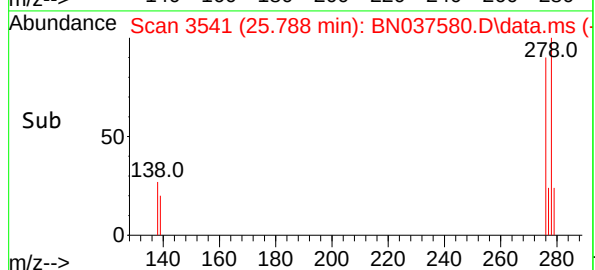
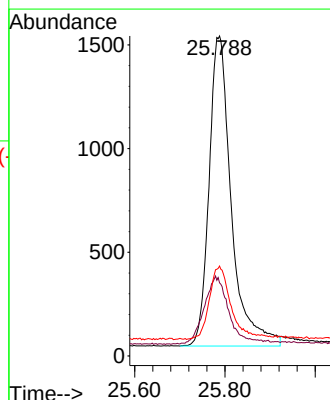
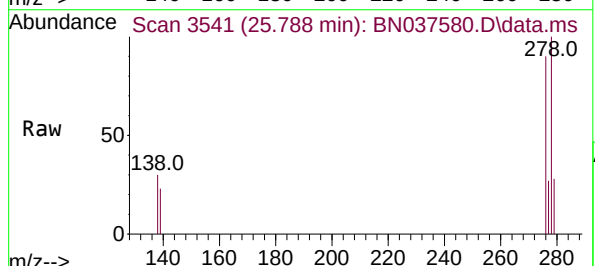
Tgt Ion:278 Resp: 5118

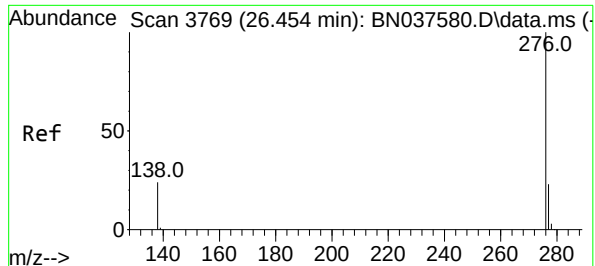
Ion Ratio Lower Upper

278 100

139 22.9 18.3 27.5

279 28.1 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037580.D

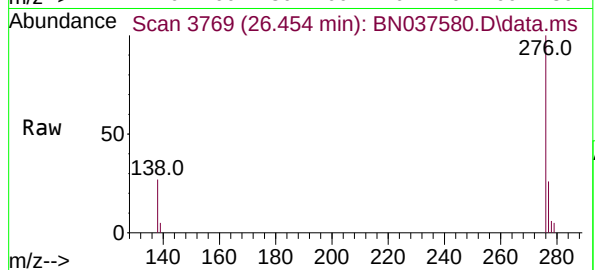
Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



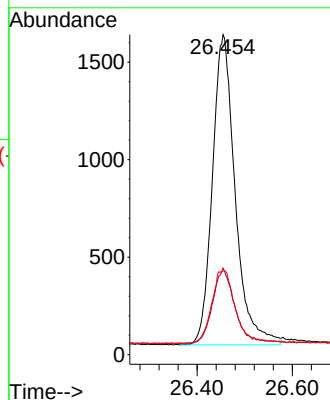
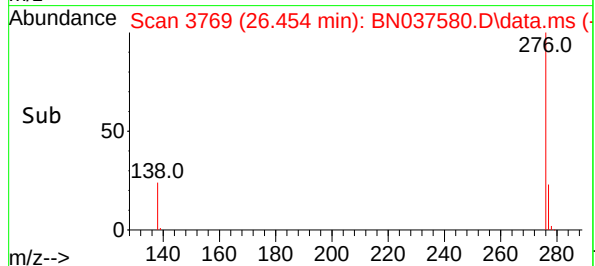
Tgt Ion:276 Resp: 5284

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

138 27.1 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037581.D
 Acq On : 12 Aug 2025 18:16
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Aug 13 04:48:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

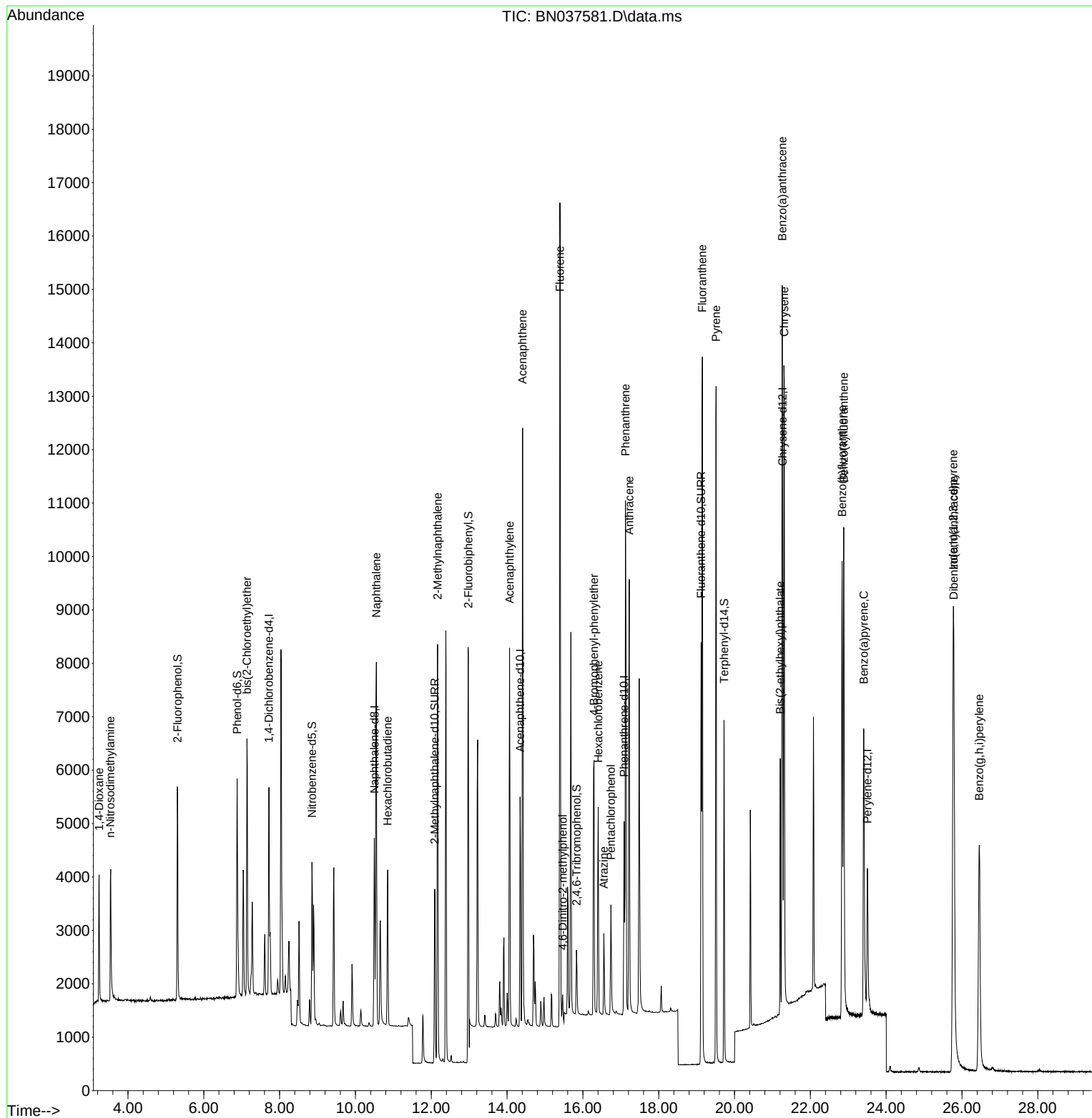
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4579	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2311	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4680	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4185	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	3775	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	3101	0.726	ng	0.00
5) Phenol-d6	6.879	99	3707	0.721	ng	0.00
8) Nitrobenzene-d5	8.854	82	2415	0.749	ng	0.00
11) 2-Methylnaphthalene-d10	12.090	152	4517	0.726	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	739	0.731	ng	0.00
15) 2-Fluorobiphenyl	12.978	172	10405	0.778	ng	0.00
27) Fluoranthene-d10	19.118	212	8750	0.711	ng	0.00
31) Terphenyl-d14	19.726	244	6383	0.741	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1386	0.769	ng	Qvalue 96
3) n-Nitrosodimethylamine	3.535	42	1777	0.771	ng	# 96
6) bis(2-Chloroethyl)ether	7.139	93	3530	0.762	ng	98
9) Naphthalene	10.551	128	9265	0.760	ng	99
10) Hexachlorobutadiene	10.850	225	2321	0.779	ng	# 99
12) 2-Methylnaphthalene	12.166	142	5758	0.753	ng	98
16) Acenaphthylene	14.067	152	7638	0.737	ng	99
17) Acenaphthene	14.409	154	5336	0.757	ng	98
18) Fluorene	15.392	166	7030	0.763	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	439	0.697	ng	# 75
21) 4-Bromophenyl-phenylether	16.292	248	2217	0.754	ng	95
22) Hexachlorobenzene	16.404	284	3105	0.745	ng	99
23) Atrazine	16.553	200	1251	0.752	ng	95
24) Pentachlorophenol	16.739	266	1061	0.725	ng	98
25) Phenanthrene	17.124	178	10654	0.749	ng	100
26) Anthracene	17.223	178	9251	0.734	ng	100
28) Fluoranthene	19.150	202	12088	0.740	ng	100
30) Pyrene	19.513	202	11747	0.751	ng	100
32) Benzo(a)anthracene	21.259	228	10489	0.750	ng	100
33) Chrysene	21.313	228	11541	0.741	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	4046	0.701	ng	100
36) Indeno(1,2,3-cd)pyrene	25.770	276	11835	0.744	ng	98
37) Benzo(b)fluoranthene	22.838	252	10811	0.756	ng	95
38) Benzo(k)fluoranthene	22.882	252	12288	0.761	ng	# 94
39) Benzo(a)pyrene	23.408	252	8737	0.736	ng	# 93
40) Dibenzo(a,h)anthracene	25.785	278	9175	0.743	ng	96
41) Benzo(g,h,i)perylene	26.454	276	9524	0.732	ng	98

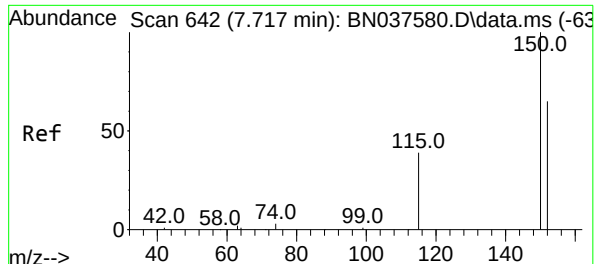
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037581.D
Acq On : 12 Aug 2025 18:16
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Aug 13 04:48:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

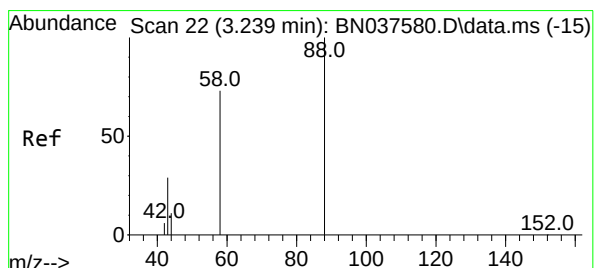
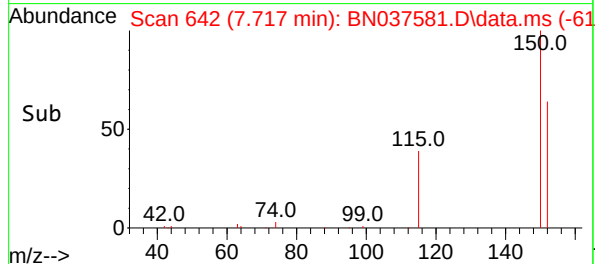
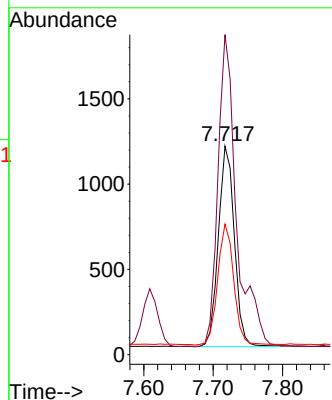
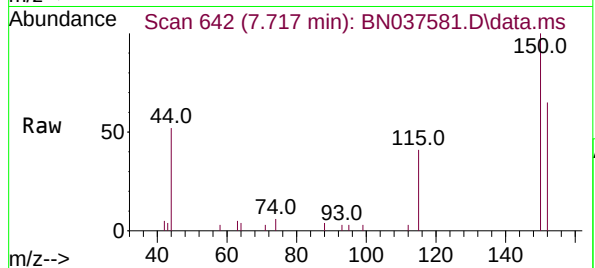




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

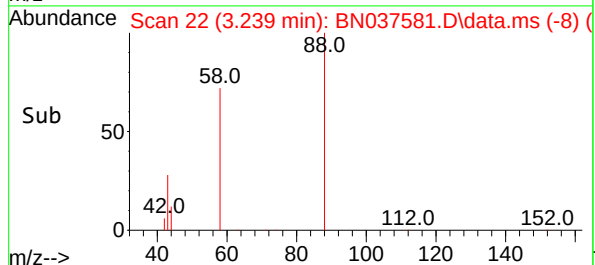
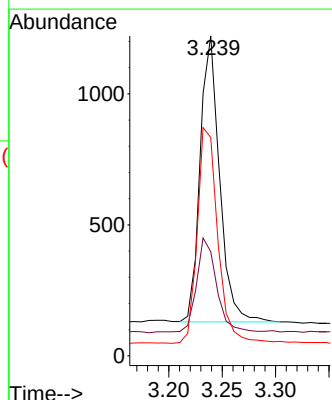
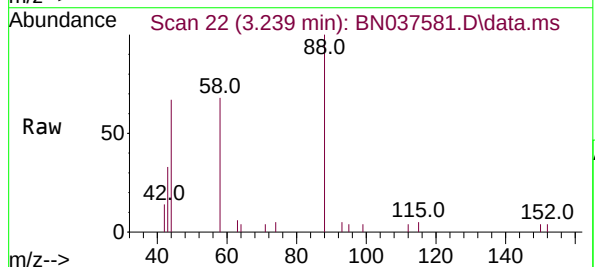
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

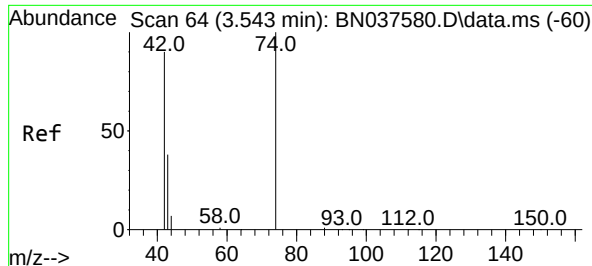
Tgt Ion:152 Resp: 1885
Ion Ratio Lower Upper
152 100
150 153.5 122.2 183.4
115 62.7 49.8 74.6



#2
1,4-Dioxane
Concen: 0.769 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion: 88 Resp: 1386
Ion Ratio Lower Upper
88 100
43 35.4 25.8 38.6
58 79.9 61.2 91.8

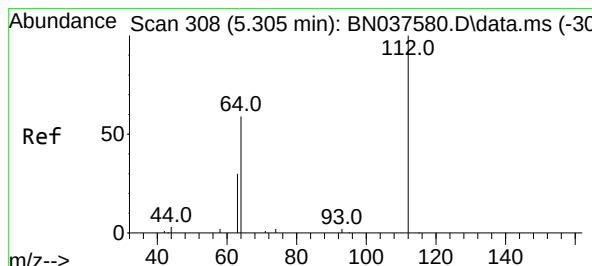
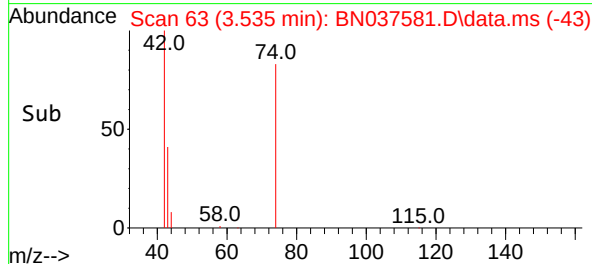
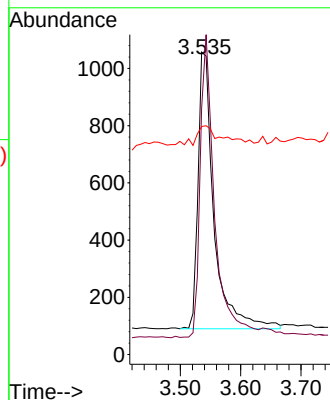
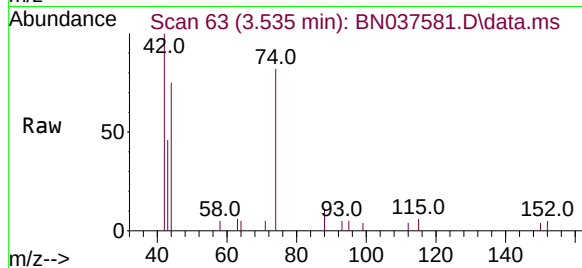




#3
n-Nitrosodimethylamine
Concen: 0.771 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

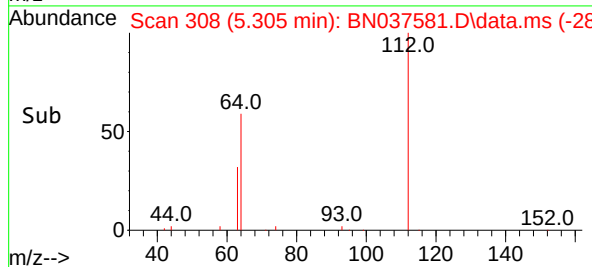
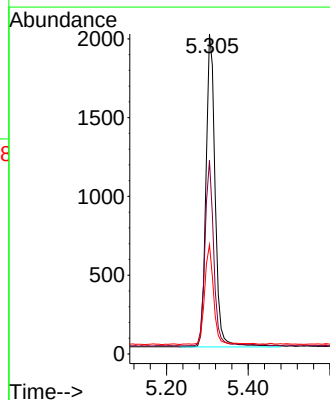
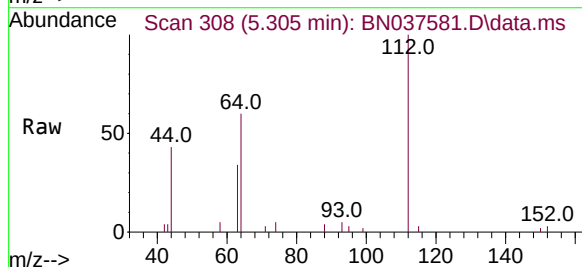
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

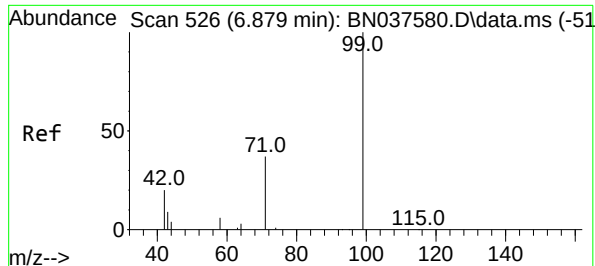
Tgt Ion: 42 Resp: 1777
Ion Ratio Lower Upper
42 100
74 98.9 82.0 123.0
44 12.9 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.726 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion: 112 Resp: 3101
Ion Ratio Lower Upper
112 100
64 56.5 44.9 67.3
63 31.0 23.4 35.2





#5

Phenol-d6

Concen: 0.721 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

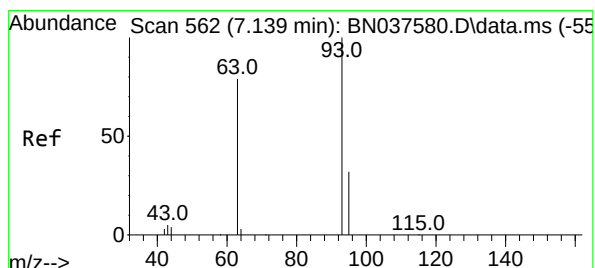
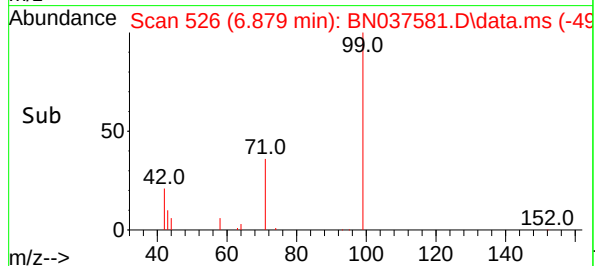
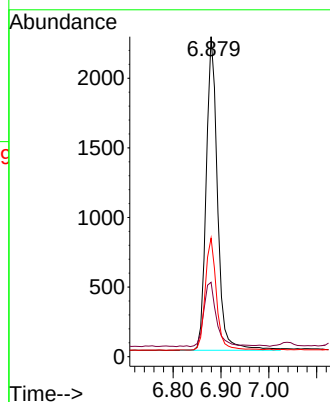
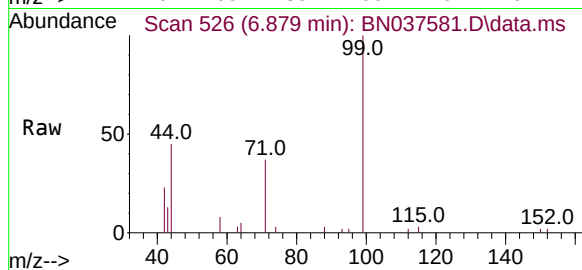
Tgt Ion: 99 Resp: 3707

Ion Ratio Lower Upper

99 100

42 22.9 18.5 27.7

71 35.5 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.762 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

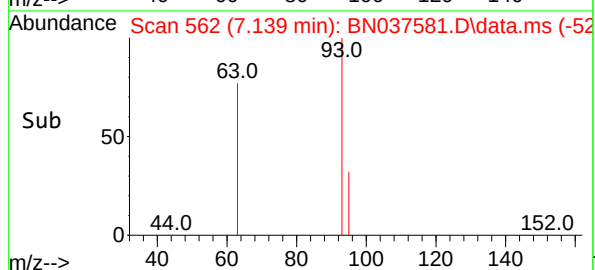
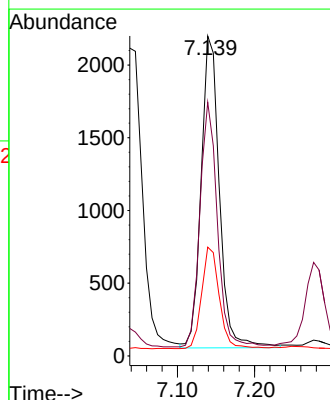
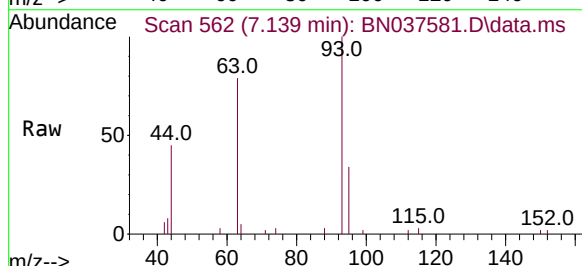
Tgt Ion: 93 Resp: 3530

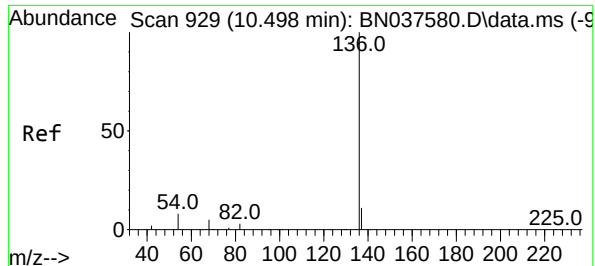
Ion Ratio Lower Upper

93 100

63 74.6 58.0 87.0

95 31.4 24.9 37.3

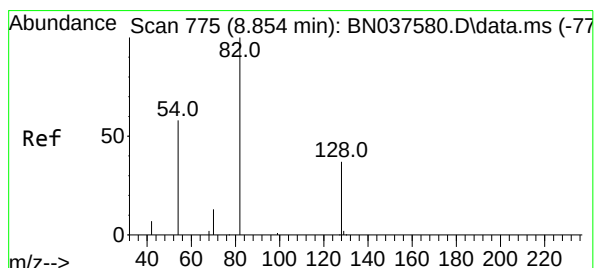
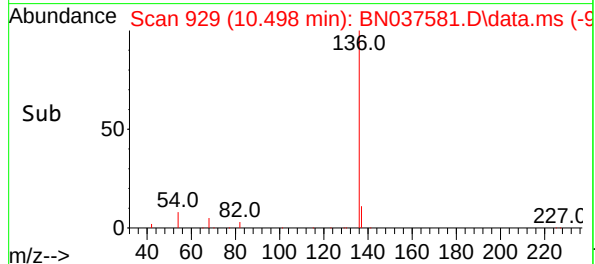
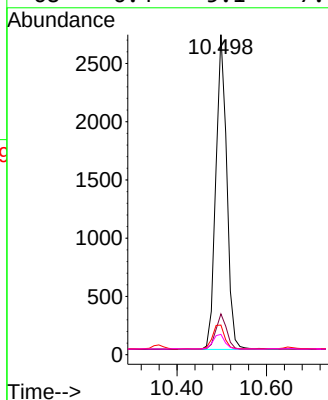
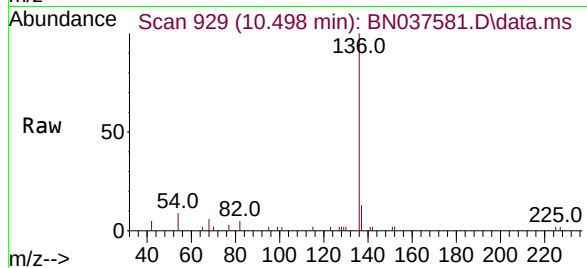




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

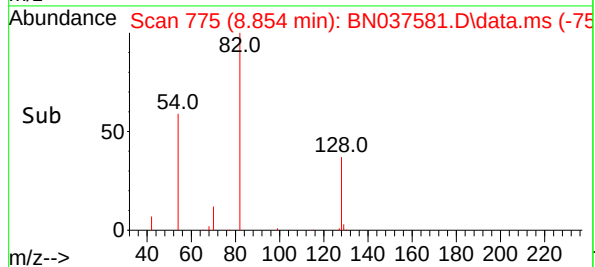
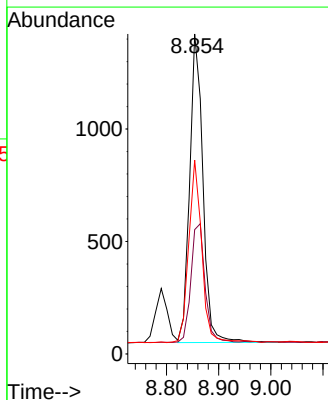
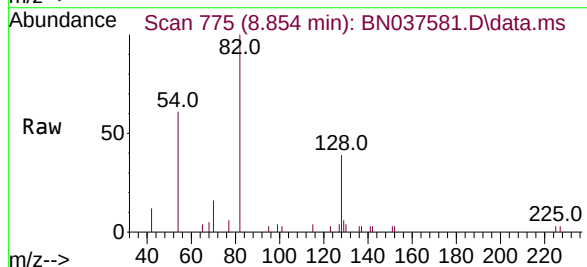
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

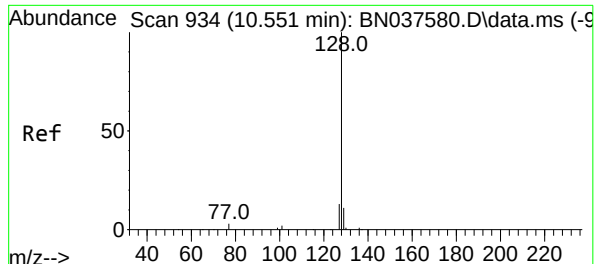
Tgt Ion:	136	Resp:	4579
Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.5	14.3
54	9.3	7.3	10.9
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.749 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:	82	Resp:	2415
Ion	Ratio	Lower	Upper
82	100		
128	38.9	32.6	48.8
54	60.6	48.9	73.3





#9
Naphthalene

Concen: 0.760 ng

RT: 10.551 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

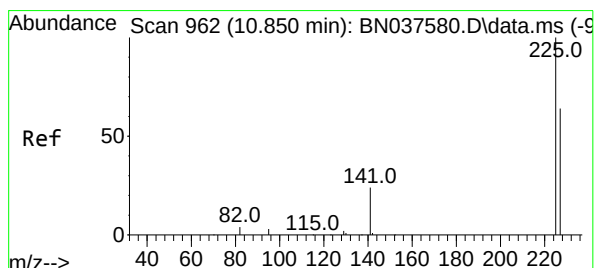
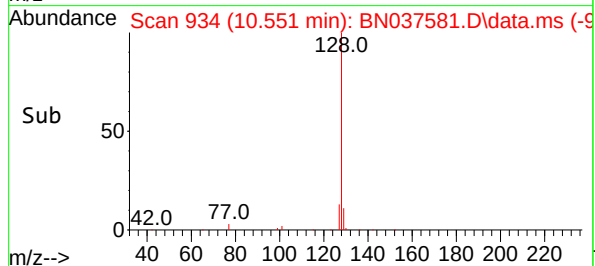
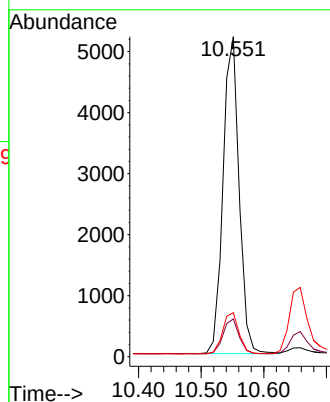
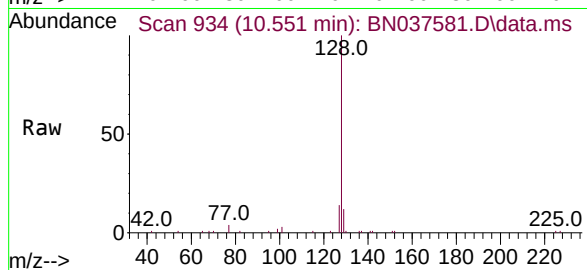
Tgt Ion:128 Resp: 9265

Ion Ratio Lower Upper

128 100

129 11.8 9.8 14.6

127 13.8 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.779 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

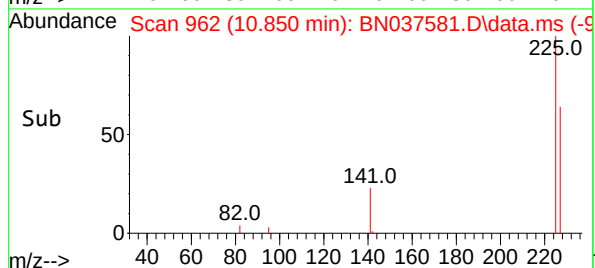
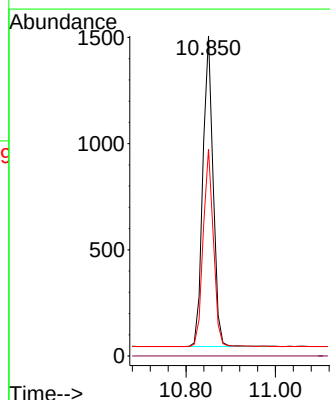
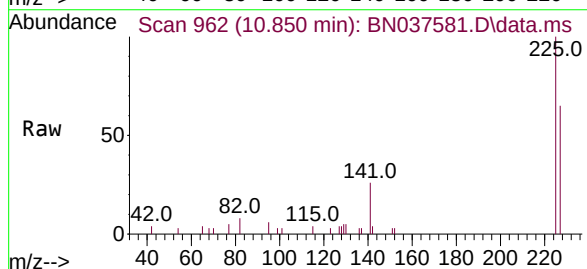
Tgt Ion:225 Resp: 2321

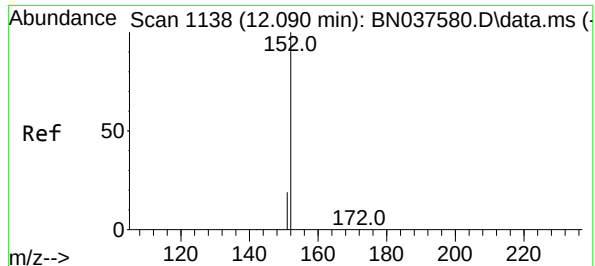
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.0 50.8 76.2

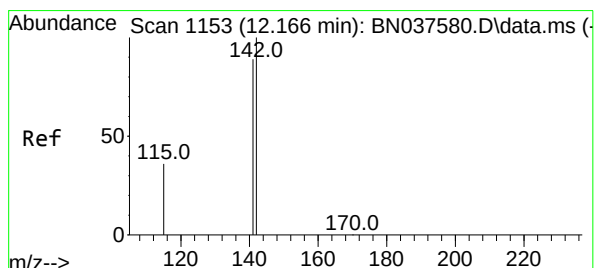
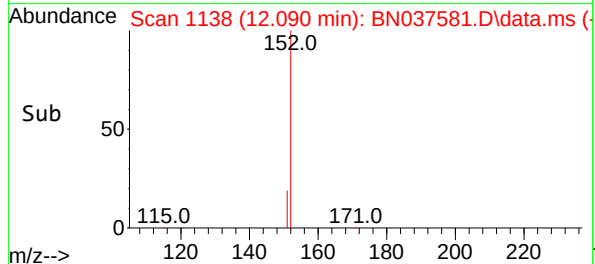
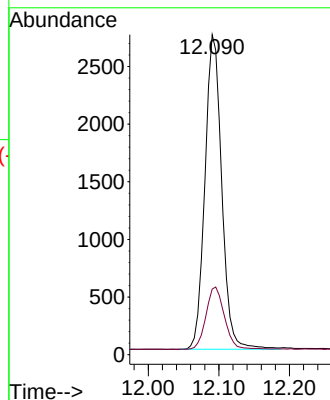
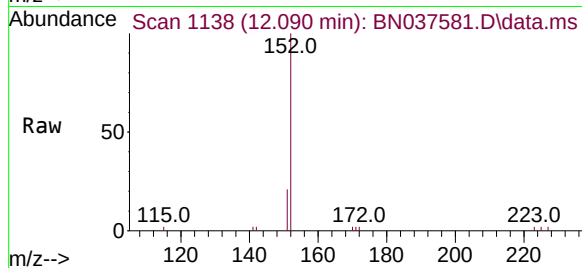




#11
2-Methylnaphthalene-d10
Concen: 0.726 ng
RT: 12.090 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

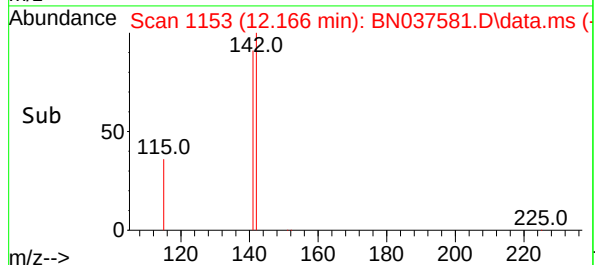
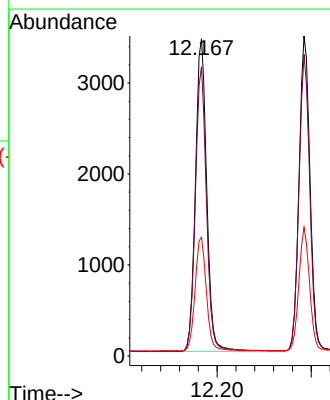
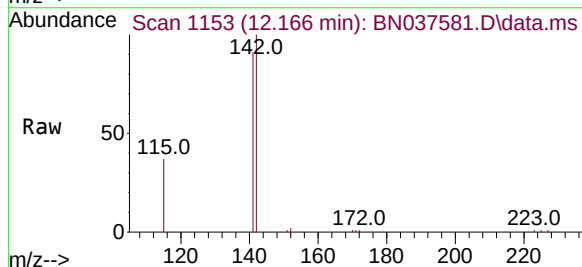
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

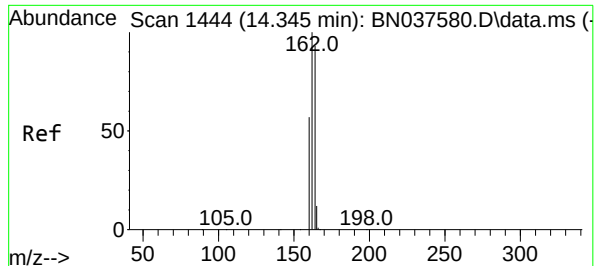
Tgt Ion:152 Resp: 4517
Ion Ratio Lower Upper
152 100
151 21.9 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.753 ng
RT: 12.166 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:142 Resp: 5758
Ion Ratio Lower Upper
142 100
141 91.2 71.4 107.0
115 37.5 30.2 45.4

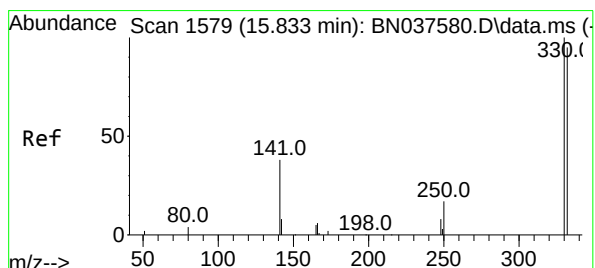
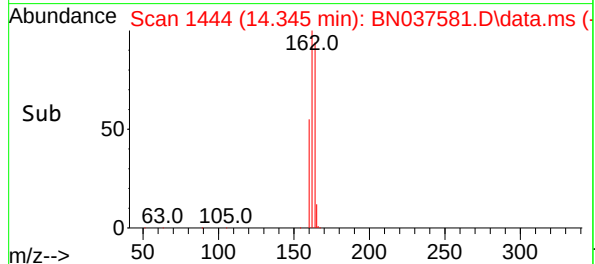
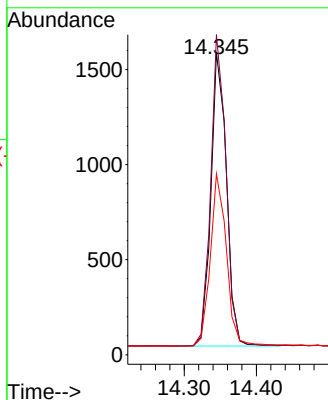
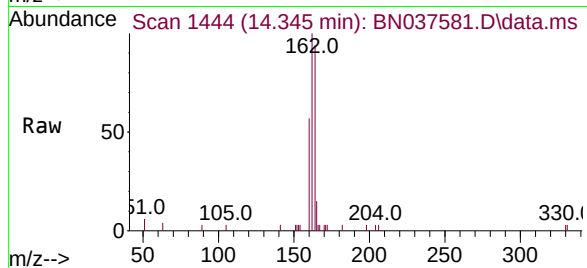




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

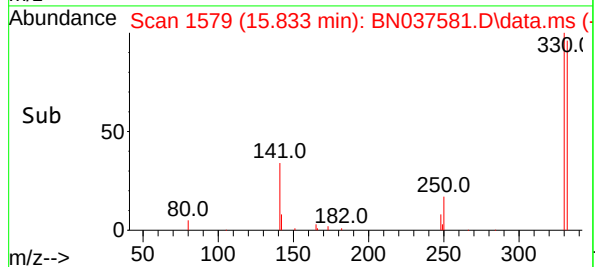
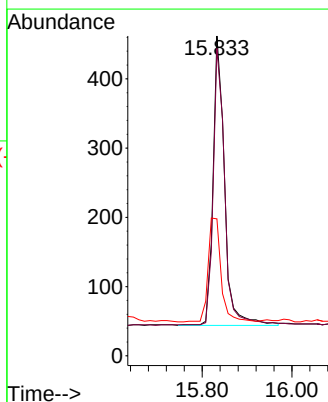
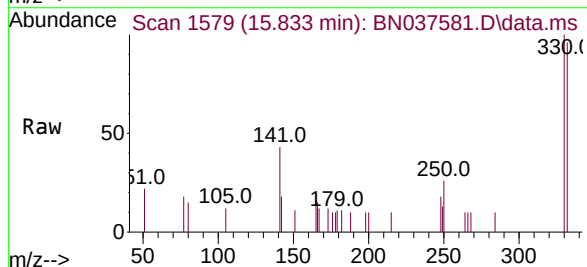
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

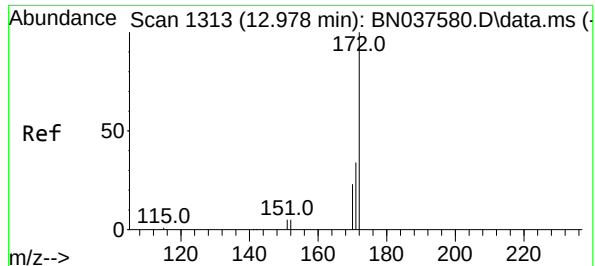
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.9	85.5	128.3
160	59.8	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.731 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.3	77.4	116.0
141	40.5	30.9	46.3





#15

2-Fluorobiphenyl

Concen: 0.778 ng

RT: 12.978 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

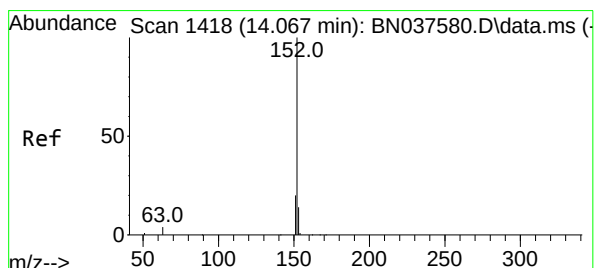
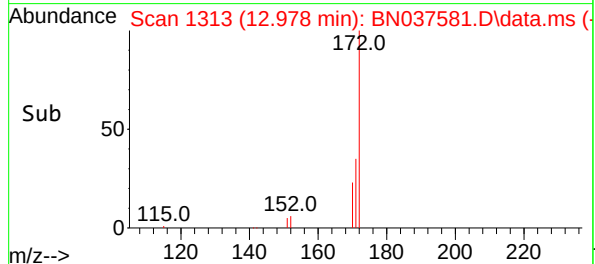
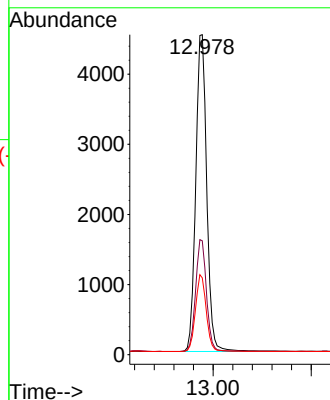
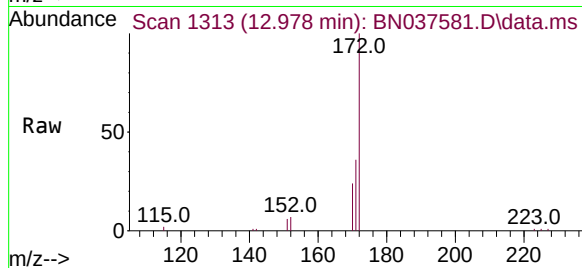
Tgt Ion:172 Resp: 10405

Ion Ratio Lower Upper

172 100

171 35.6 28.2 42.4

170 24.0 19.2 28.8



#16

Acenaphthylene

Concen: 0.737 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

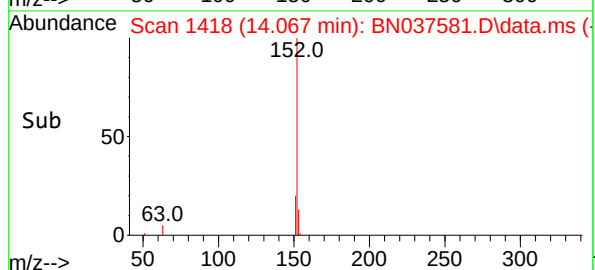
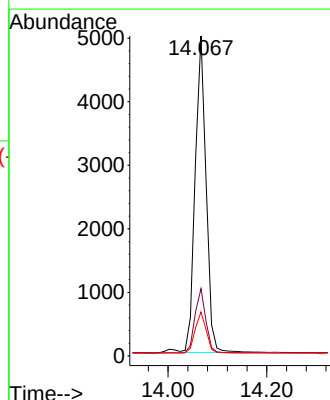
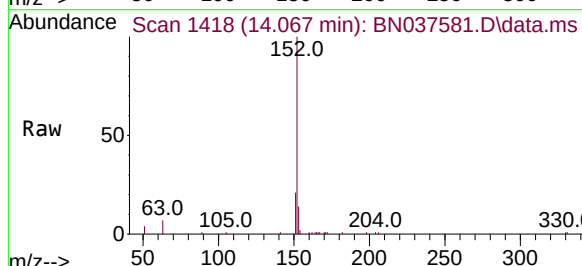
Tgt Ion:152 Resp: 7638

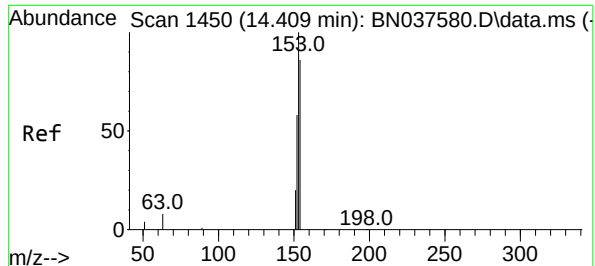
Ion Ratio Lower Upper

152 100

151 20.2 16.1 24.1

153 13.1 10.7 16.1

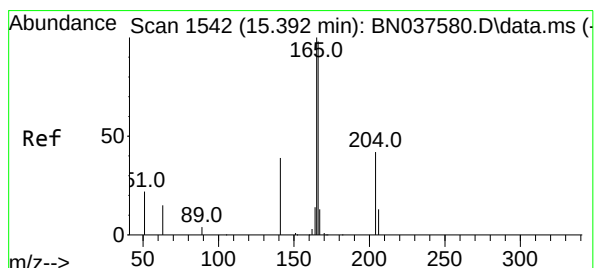
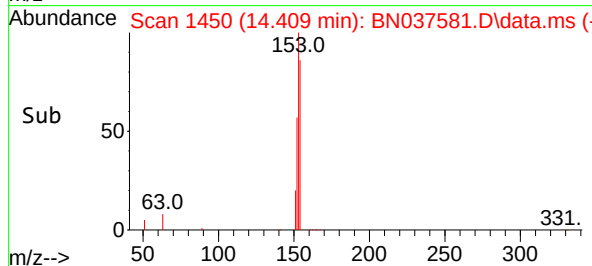
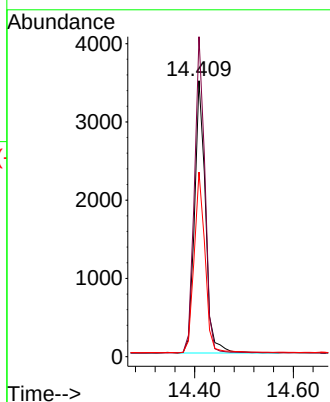
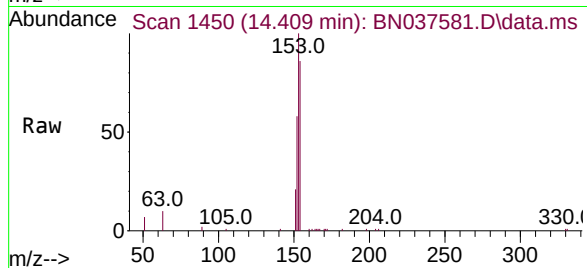




#17
Acenaphthene
Concen: 0.757 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

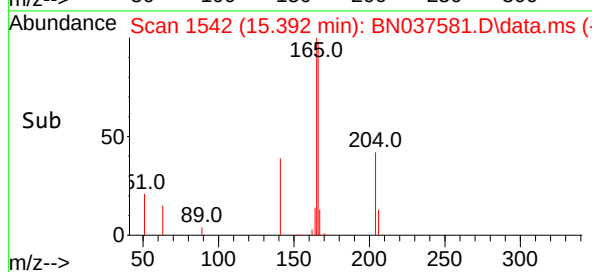
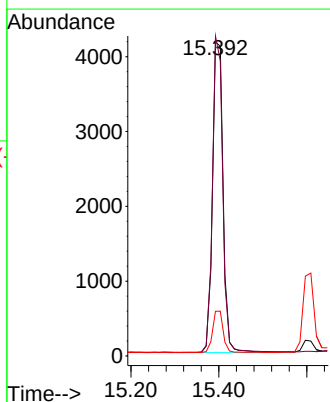
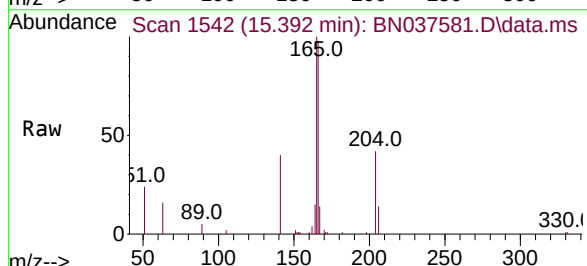
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

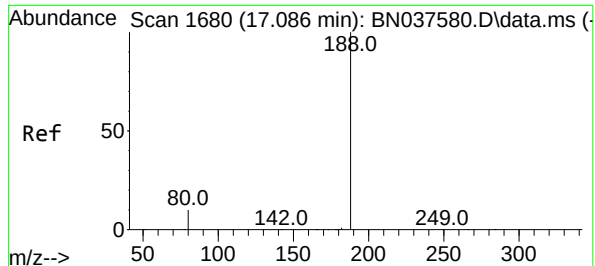
Tgt Ion:154 Resp: 5336
Ion Ratio Lower Upper
154 100
153 111.8 90.6 135.8
152 66.9 54.9 82.3



#18
Fluorene
Concen: 0.763 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:166 Resp: 7030
Ion Ratio Lower Upper
166 100
165 99.5 78.9 118.3
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

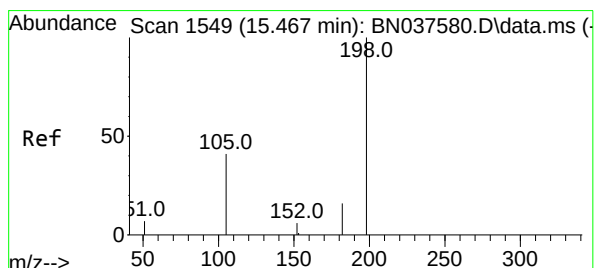
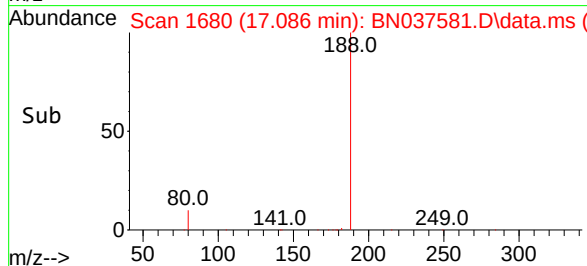
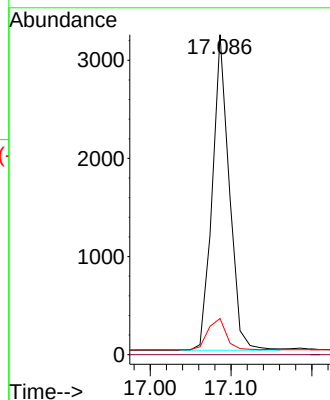
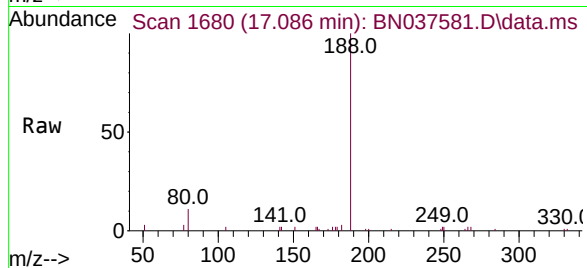
Tgt Ion:188 Resp: 4680

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.697 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

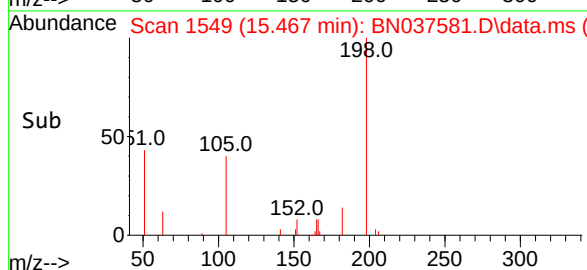
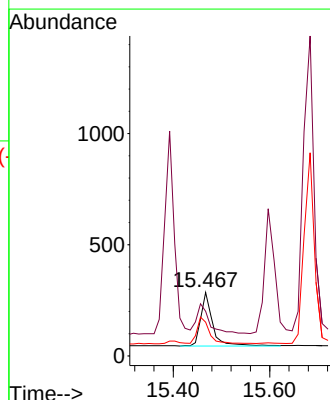
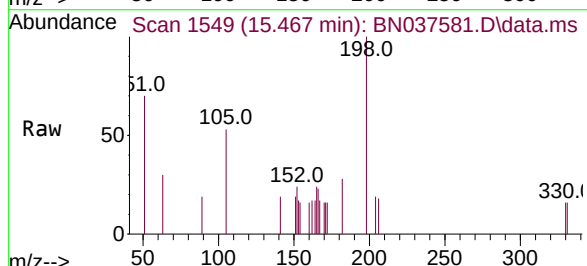
Tgt Ion:198 Resp: 439

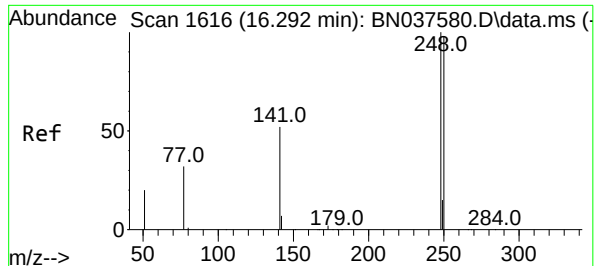
Ion Ratio Lower Upper

198 100

51 70.3 81.0 121.6#

105 53.1 52.5 78.7

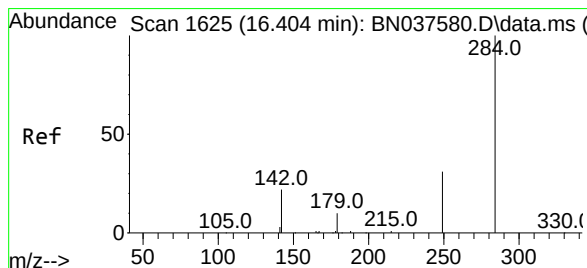
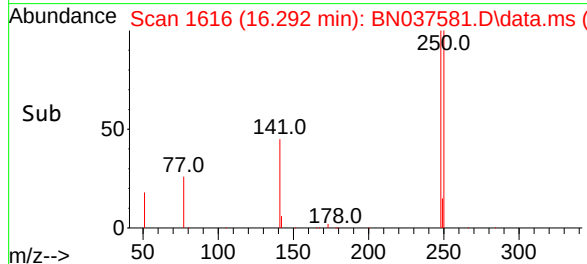
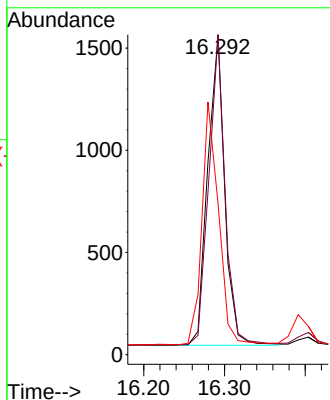
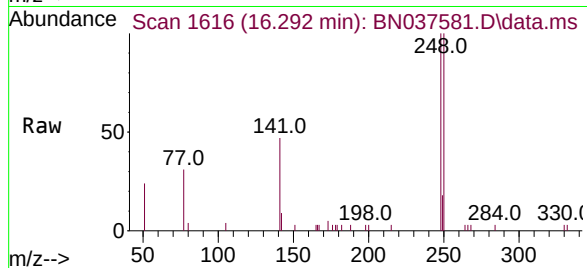




#21
4-Bromophenyl-phenylether
Concen: 0.754 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

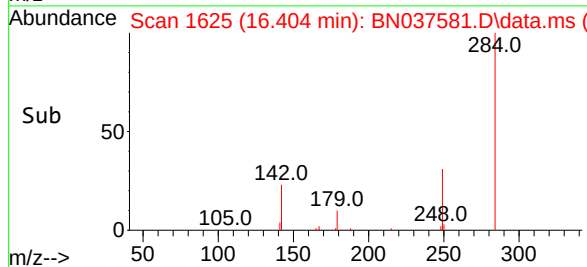
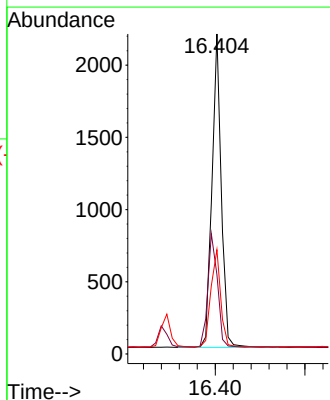
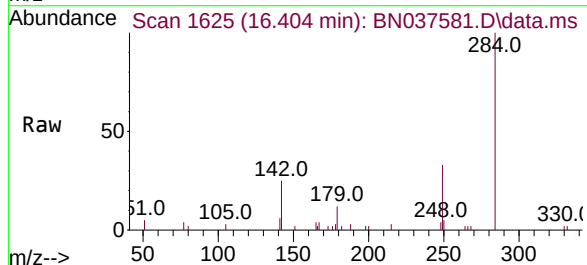
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

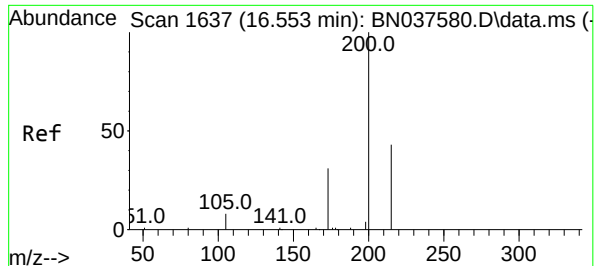
Tgt Ion:248 Resp: 2217
Ion Ratio Lower Upper
248 100
250 100.1 78.6 118.0
141 47.3 43.7 65.5



#22
Hexachlorobenzene
Concen: 0.745 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:284 Resp: 3105
Ion Ratio Lower Upper
284 100
142 37.6 29.8 44.6
249 32.9 26.0 39.0





#23

Atrazine

Concen: 0.752 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

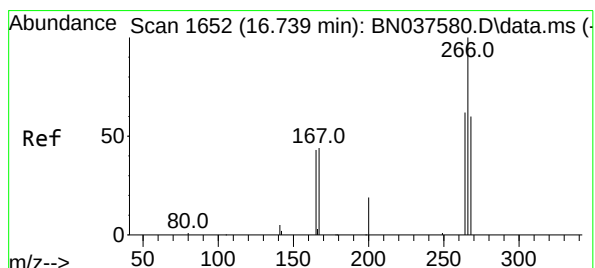
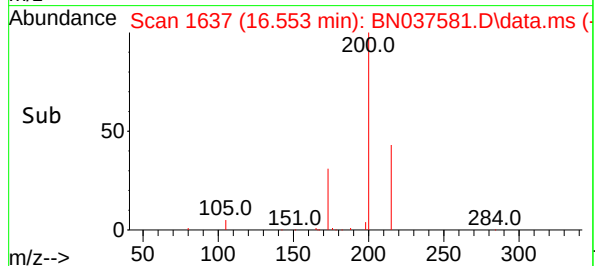
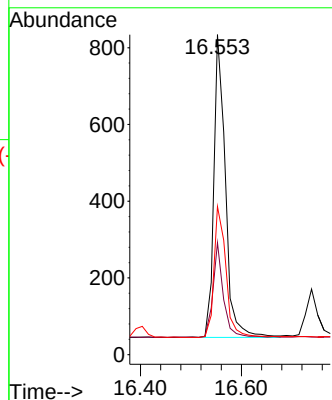
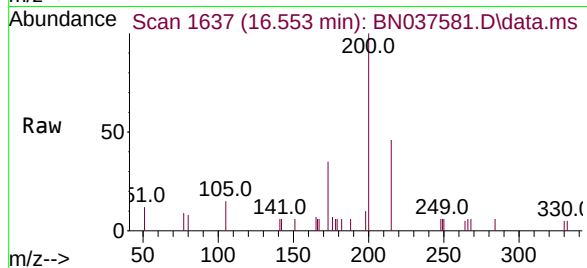
Tgt Ion:200 Resp: 1251

Ion Ratio Lower Upper

200 100

173 35.0 31.0 46.4

215 46.3 39.4 59.0



#24

Pentachlorophenol

Concen: 0.725 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

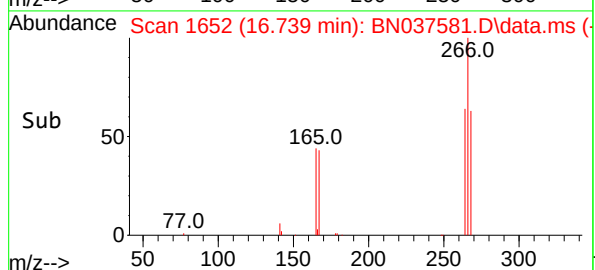
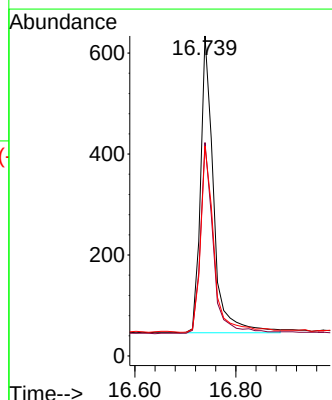
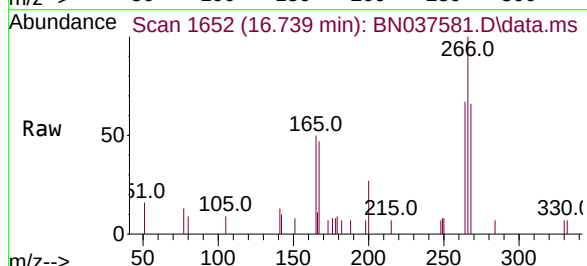
Tgt Ion:266 Resp: 1061

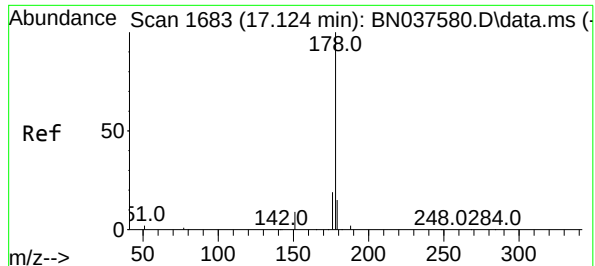
Ion Ratio Lower Upper

266 100

264 62.3 49.6 74.4

268 63.9 49.2 73.8





#25

Phenanthrene

Concen: 0.749 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

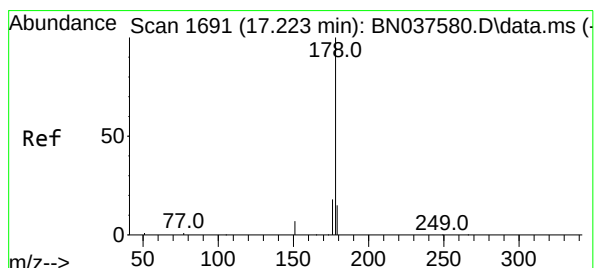
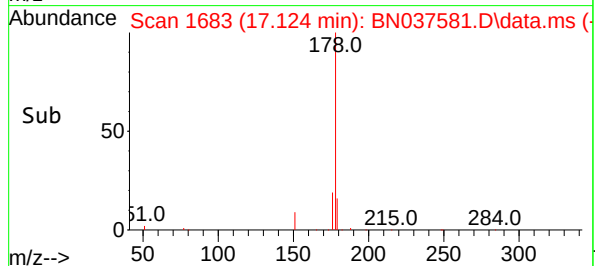
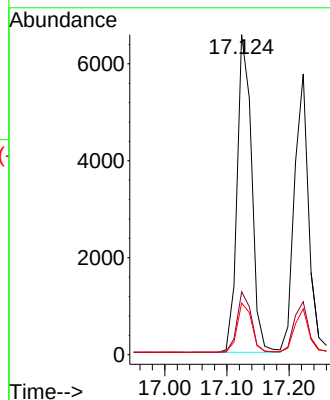
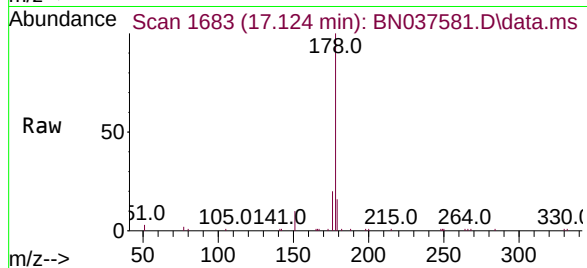
Tgt Ion:178 Resp: 10654

Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.7 12.3 18.5



#26

Anthracene

Concen: 0.734 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

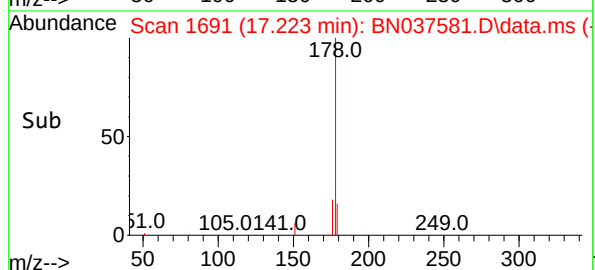
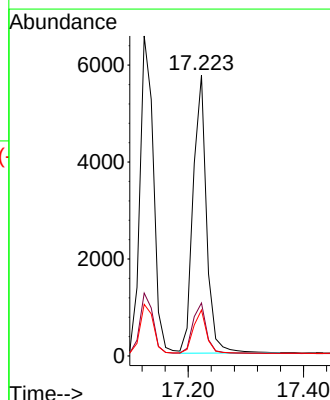
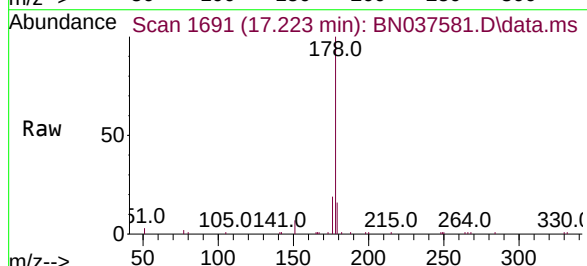
Tgt Ion:178 Resp: 9251

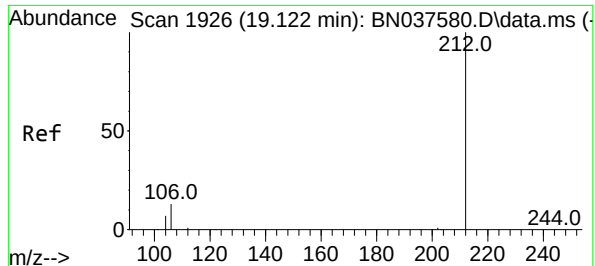
Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 15.6 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.711 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

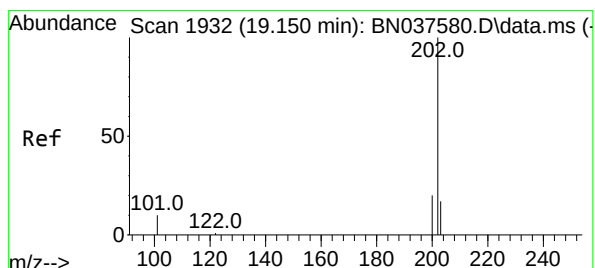
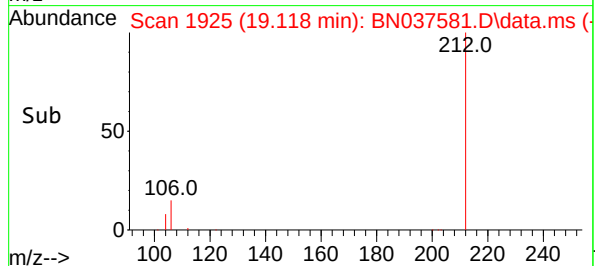
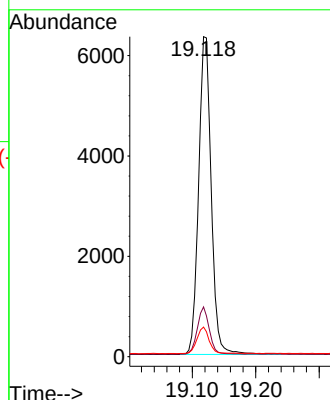
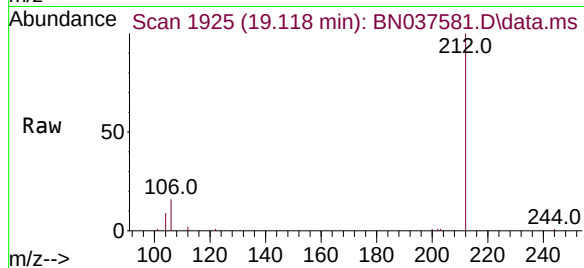
Tgt Ion:212 Resp: 8750

Ion Ratio Lower Upper

212 100

106 14.1 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.740 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

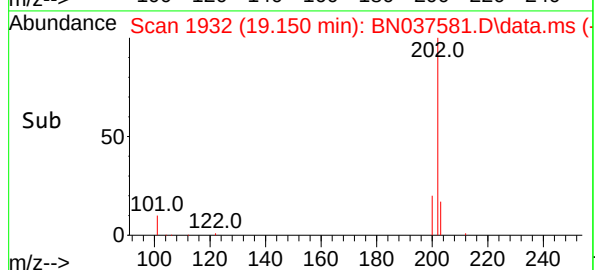
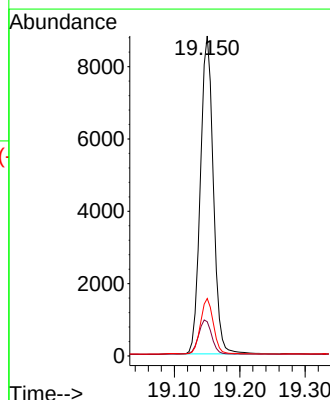
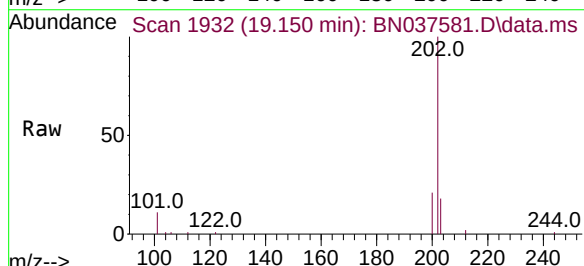
Tgt Ion:202 Resp: 12088

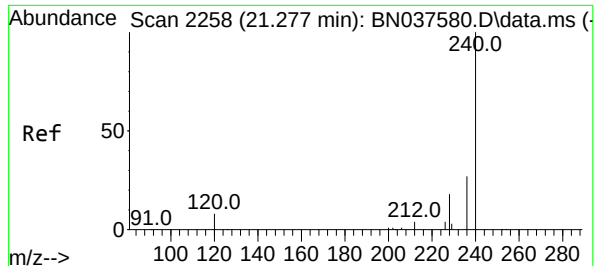
Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

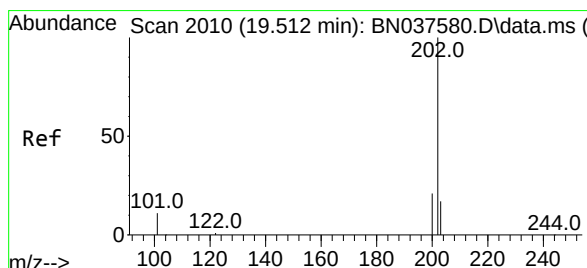
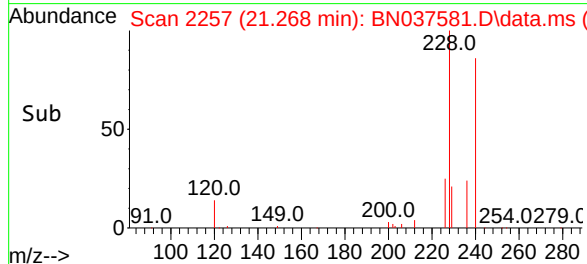
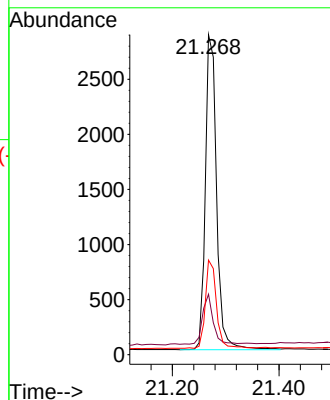
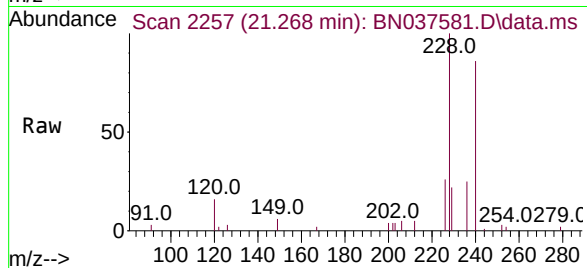
Tgt Ion:240 Resp: 4185

Ion Ratio Lower Upper

240 100

120 18.9 8.9 13.3#

236 29.5 22.6 33.8



#30

Pyrene

Concen: 0.751 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

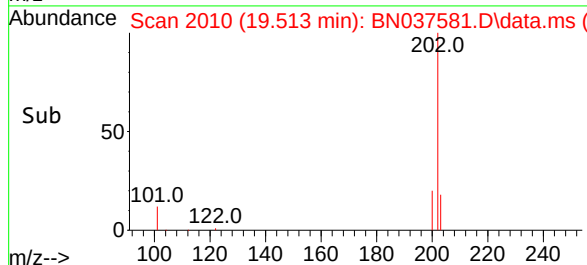
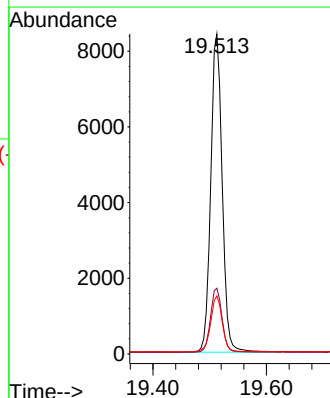
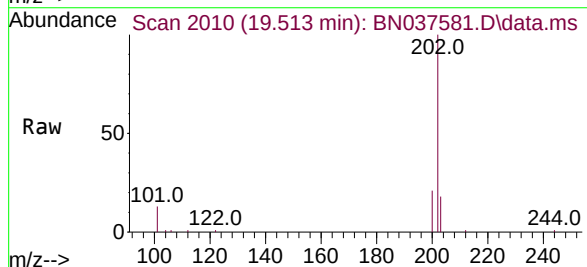
Tgt Ion:202 Resp: 11747

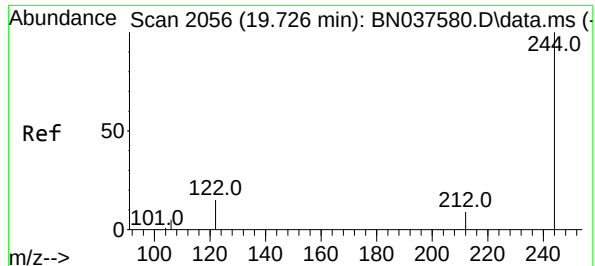
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.9 14.3 21.5

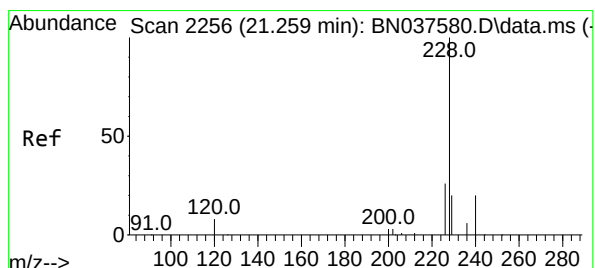
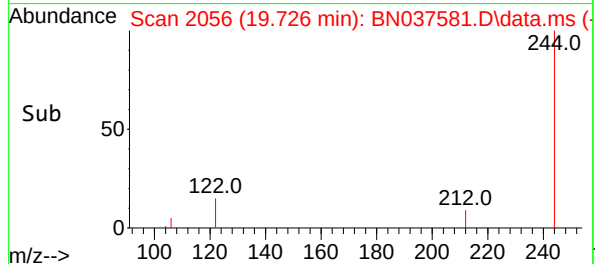
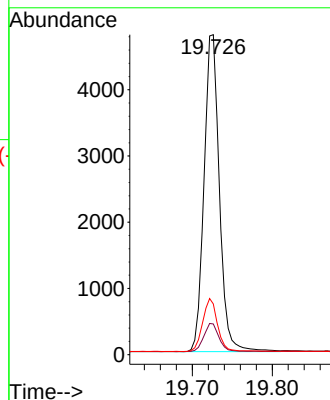
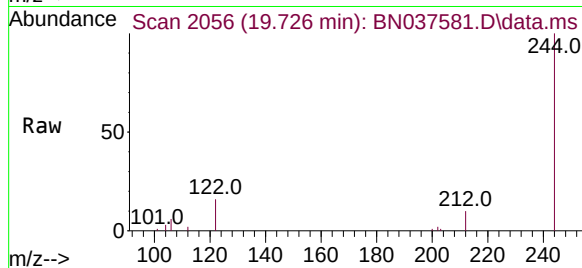




#31
Terphenyl-d14
Concen: 0.741 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

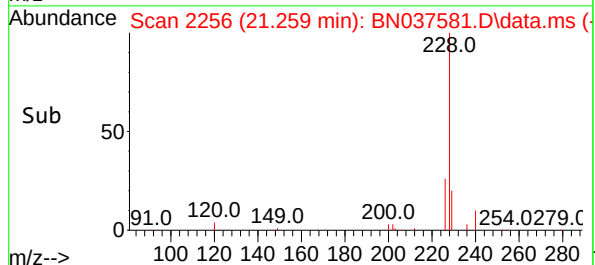
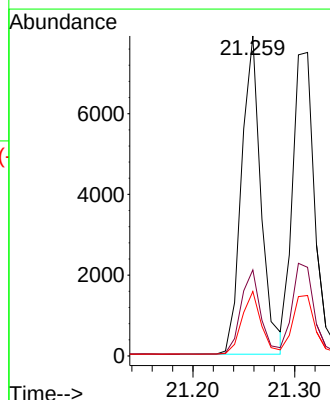
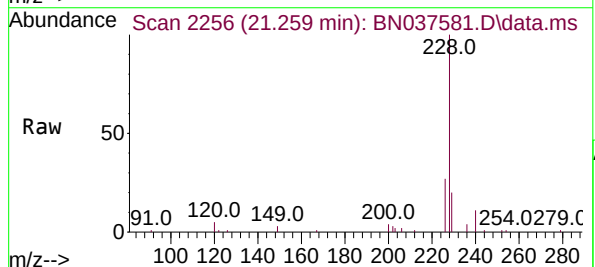
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

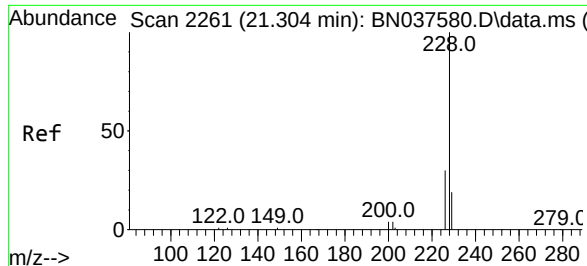
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.2	12.2
122	15.9	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.750 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.5	32.3
229	20.1	16.5	24.7





#33

Chrysene

Concen: 0.741 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

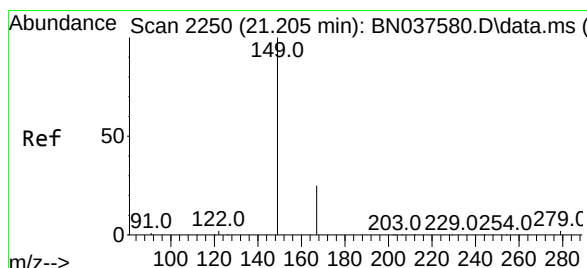
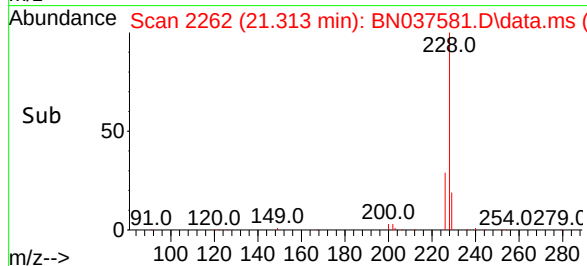
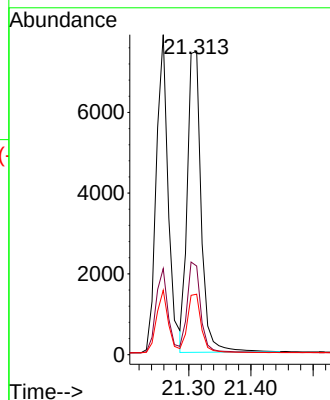
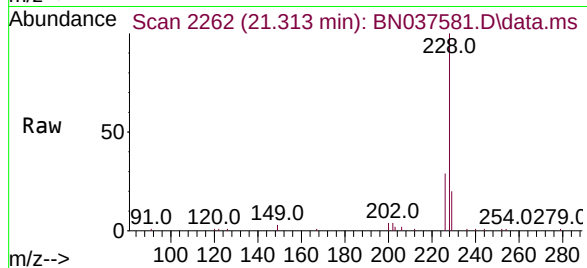
Tgt Ion:228 Resp: 11541

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

229 19.9 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.701 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

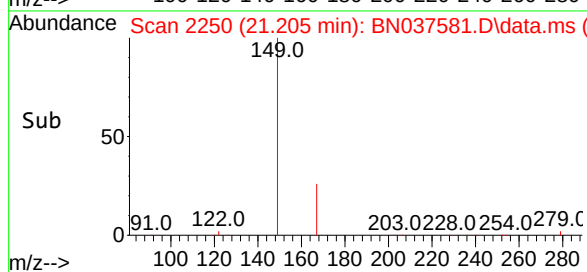
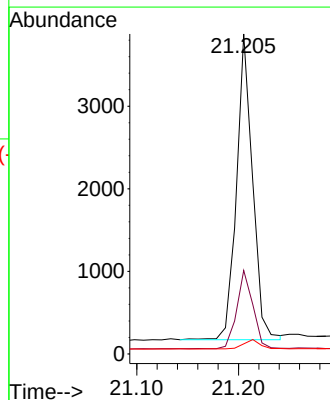
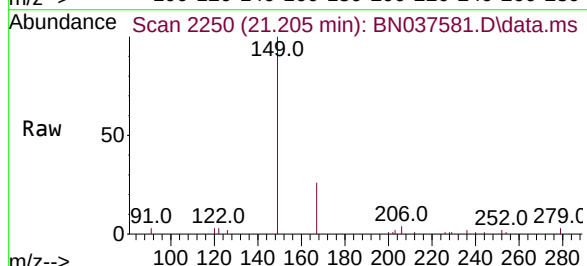
Tgt Ion:149 Resp: 4046

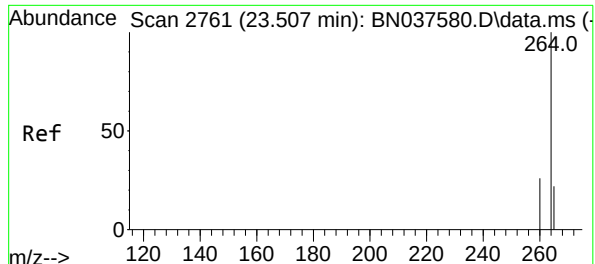
Ion Ratio Lower Upper

149 100

167 25.8 20.5 30.7

279 3.2 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

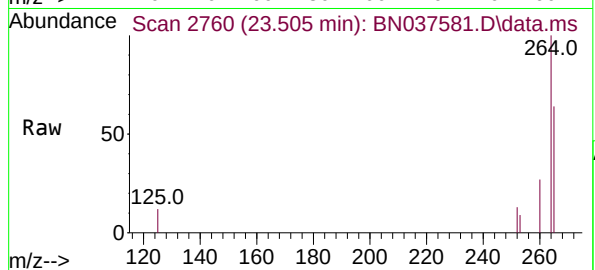
Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



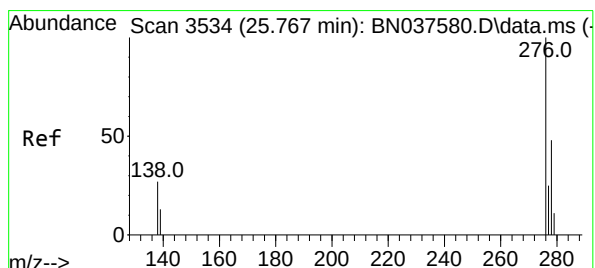
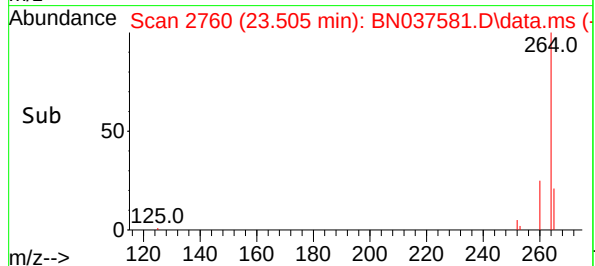
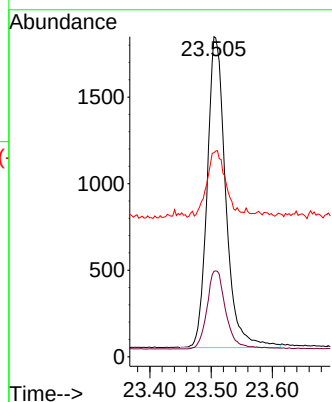
Tgt Ion:264 Resp: 3775

Ion Ratio Lower Upper

264 100

260 26.7 21.6 32.4

265 63.8 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.744 ng

RT: 25.770 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

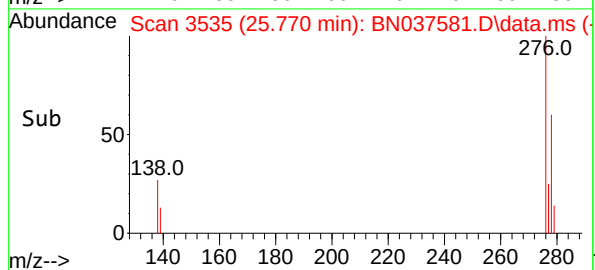
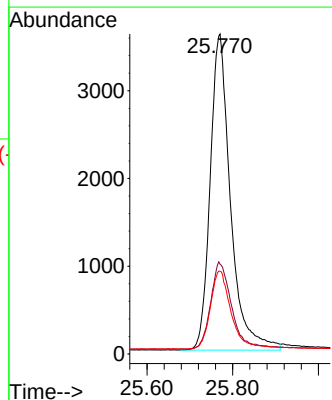
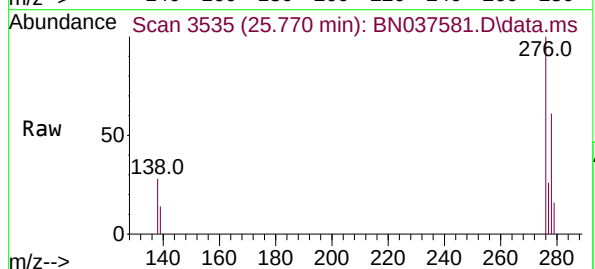
Tgt Ion:276 Resp: 11835

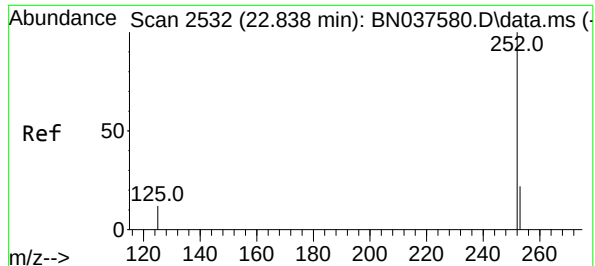
Ion Ratio Lower Upper

276 100

138 28.4 23.3 34.9

277 25.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.756 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

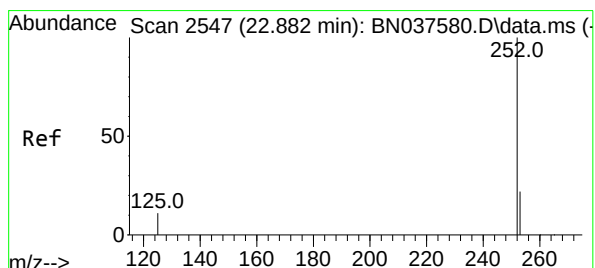
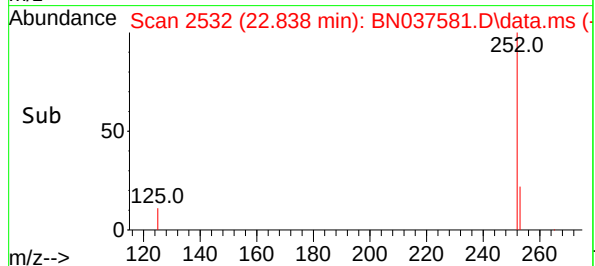
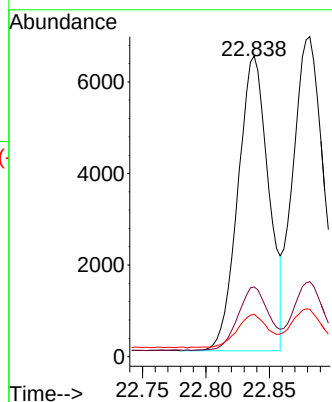
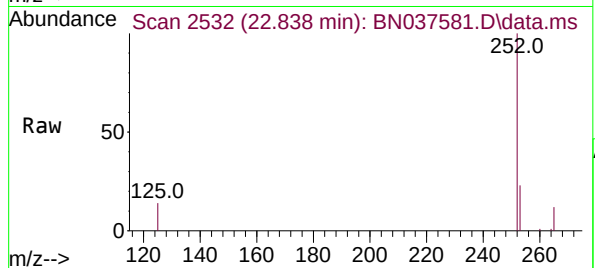
Tgt Ion:252 Resp: 10811

Ion Ratio Lower Upper

252 100

253 23.2 20.0 30.0

125 14.1 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.761 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

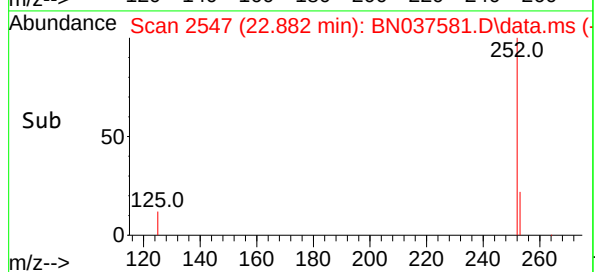
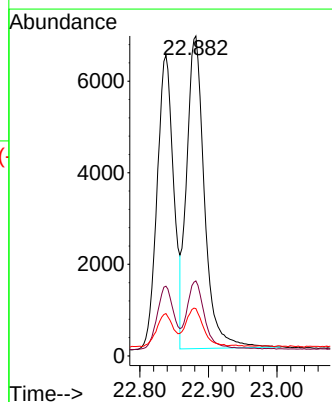
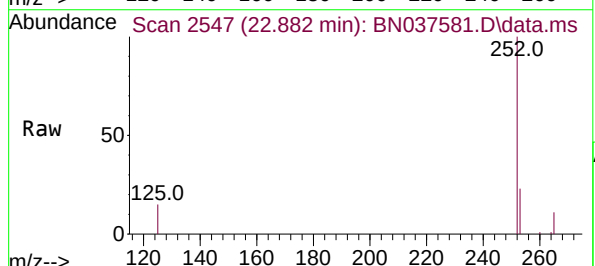
Tgt Ion:252 Resp: 12288

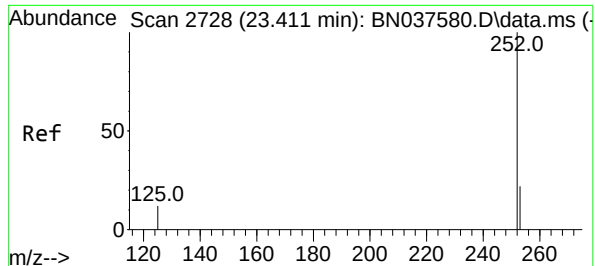
Ion Ratio Lower Upper

252 100

253 23.4 19.9 29.9

125 14.8 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.736 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

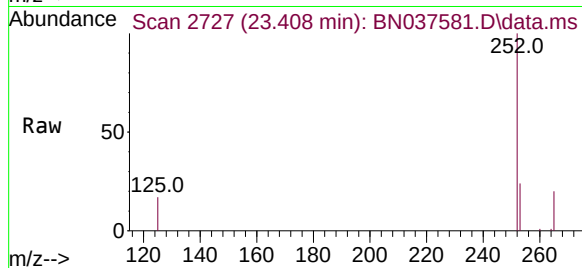
Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



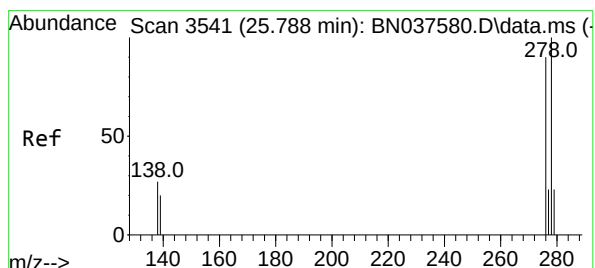
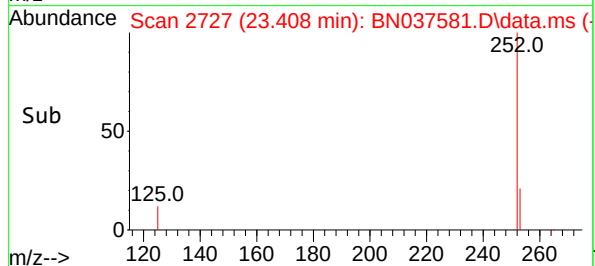
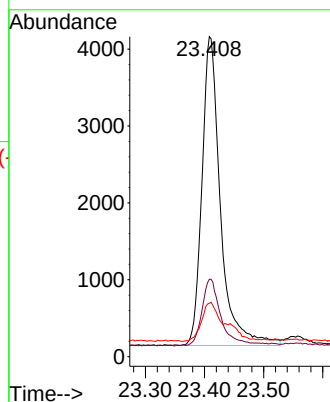
Tgt Ion:252 Resp: 8737

Ion Ratio Lower Upper

252 100

253 24.2 21.6 32.4

125 16.7 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.743 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

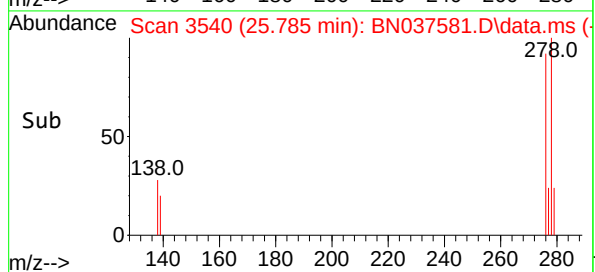
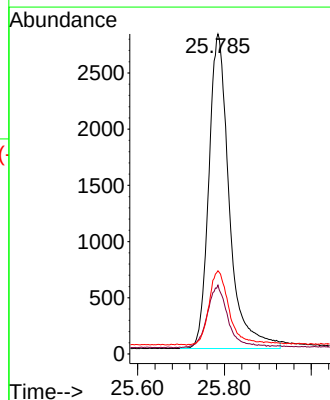
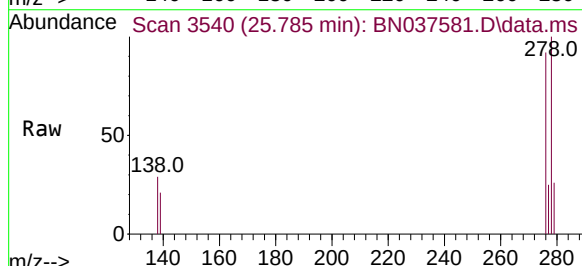
Tgt Ion:278 Resp: 9175

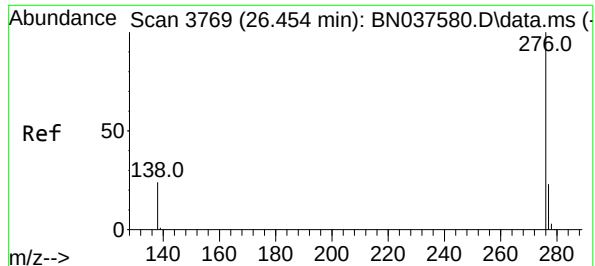
Ion Ratio Lower Upper

278 100

139 21.5 18.3 27.5

279 26.0 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.732 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037581.D

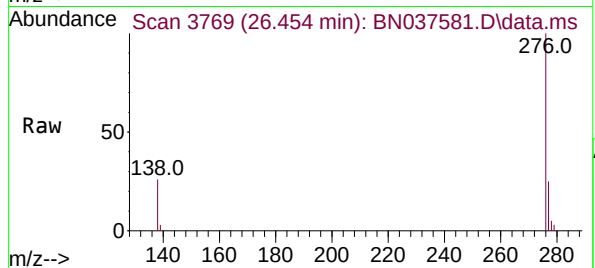
Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



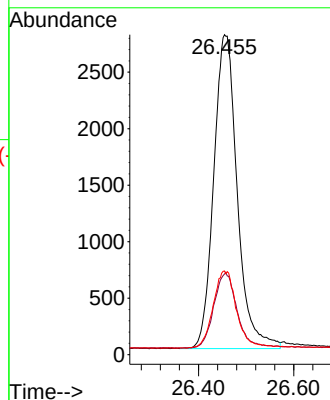
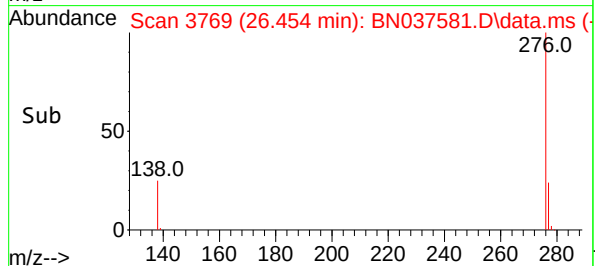
Tgt Ion:276 Resp: 9524

Ion Ratio Lower Upper

276 100

277 25.2 21.0 31.4

138 26.2 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037582.D
 Acq On : 12 Aug 2025 18:52
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Aug 13 04:49:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

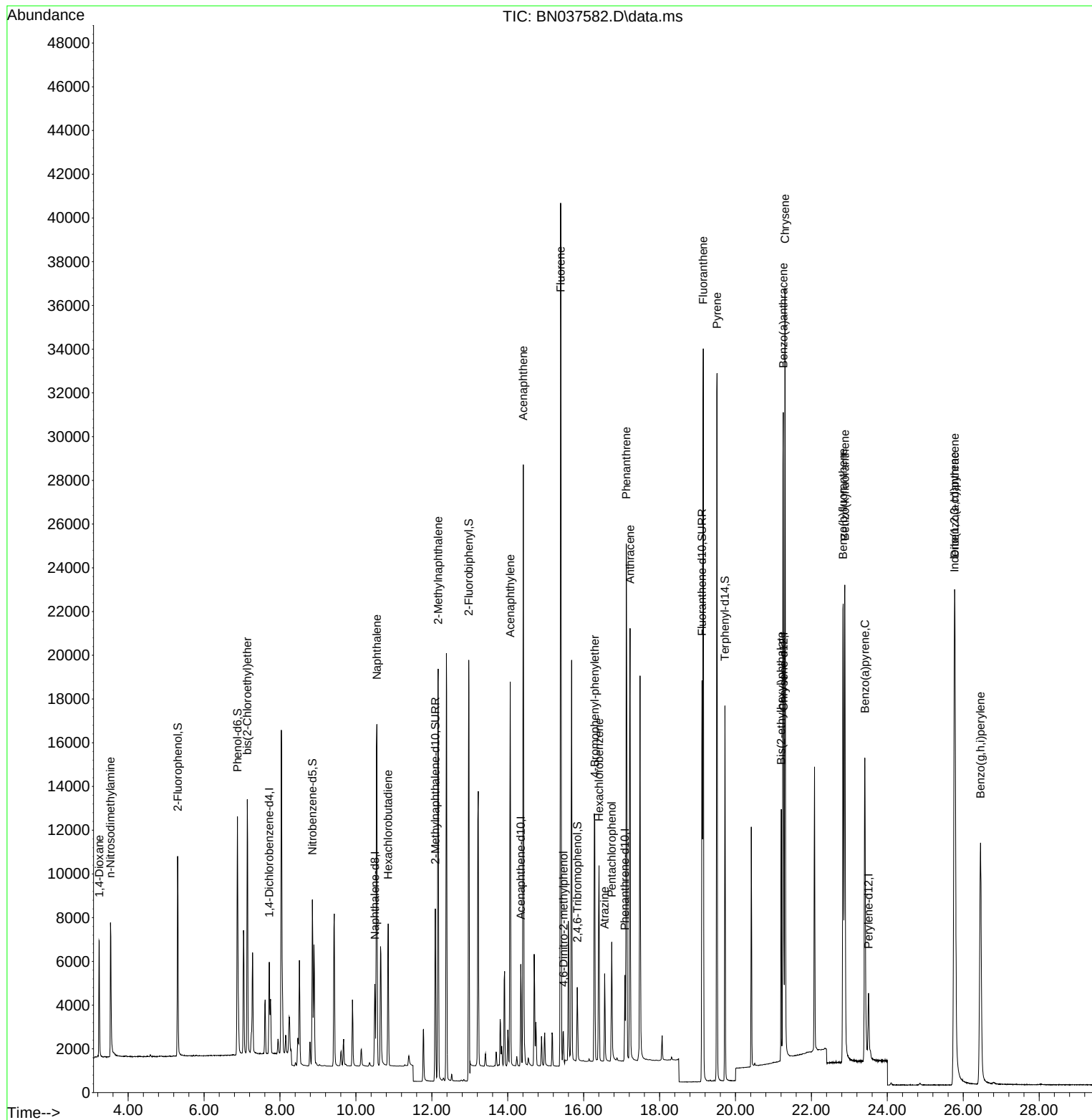
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1999	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4868	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2499	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4868	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4728	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	4054	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	7088	1.564	ng	0.00
5) Phenol-d6	6.879	99	9580	1.757	ng	0.00
8) Nitrobenzene-d5	8.854	82	5686	1.658	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	10567	1.597	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	1852	1.693	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	23403	1.619	ng	0.00
27) Fluoranthene-d10	19.118	212	20450	1.597	ng	0.00
31) Terphenyl-d14	19.722	244	15761	1.620	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.239	88	3171	1.658	ng	97
3) n-Nitrosodimethylamine	3.535	42	3942	1.613	ng	97
6) bis(2-Chloroethyl)ether	7.139	93	8159	1.660	ng	98
9) Naphthalene	10.552	128	21204	1.636	ng	98
10) Hexachlorobutadiene	10.851	225	5193	1.640	ng	# 100
12) 2-Methylnaphthalene	12.167	142	13647	1.679	ng	99
16) Acenaphthylene	14.067	152	18492	1.651	ng	100
17) Acenaphthene	14.409	154	12820	1.682	ng	96
18) Fluorene	15.393	166	16858	1.691	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	1182	1.517	ng	# 56
21) 4-Bromophenyl-phenylether	16.292	248	5158	1.686	ng	94
22) Hexachlorobenzene	16.404	284	7080	1.633	ng	100
23) Atrazine	16.553	200	3118	1.803	ng	93
24) Pentachlorophenol	16.739	266	2704	1.775	ng	99
25) Phenanthrene	17.124	178	24938	1.685	ng	100
26) Anthracene	17.223	178	22287	1.701	ng	100
28) Fluoranthene	19.150	202	29263	1.721	ng	100
30) Pyrene	19.513	202	28406	1.607	ng	99
32) Benzo(a)anthracene	21.259	228	25547	1.618	ng	99
33) Chrysene	21.304	228	28577	1.624	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	9868	1.514	ng	99
36) Indeno(1,2,3-cd)pyrene	25.768	276	29448	1.724	ng	99
37) Benzo(b)fluoranthene	22.835	252	26189	1.705	ng	# 92
38) Benzo(k)fluoranthene	22.879	252	29528	1.703	ng	# 91
39) Benzo(a)pyrene	23.408	252	21441	1.683	ng	# 89
40) Dibenzo(a,h)anthracene	25.779	278	23334	1.761	ng	93
41) Benzo(g,h,i)perylene	26.455	276	23781	1.703	ng	96

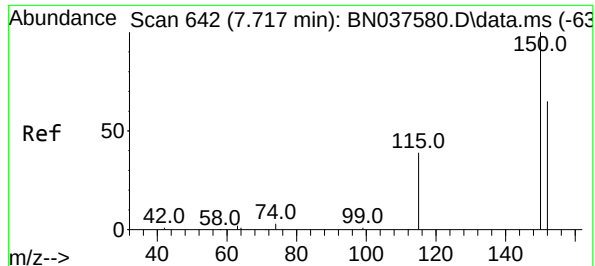
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037582.D
Acq On : 12 Aug 2025 18:52
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Aug 13 04:49:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

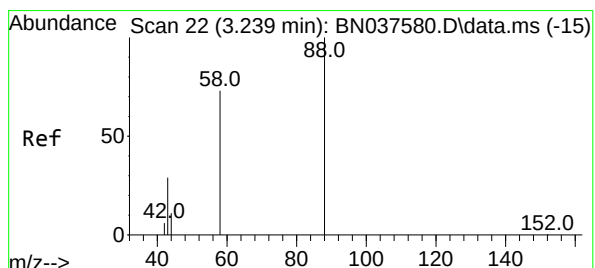
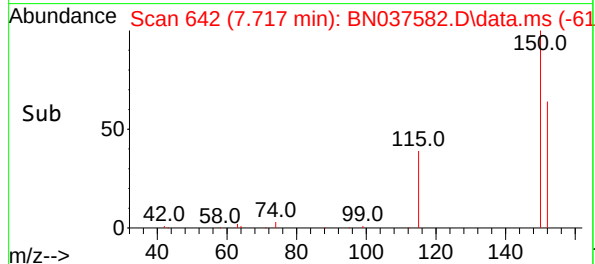
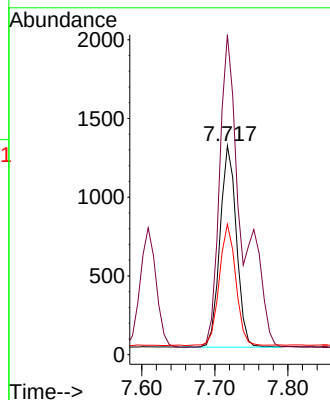
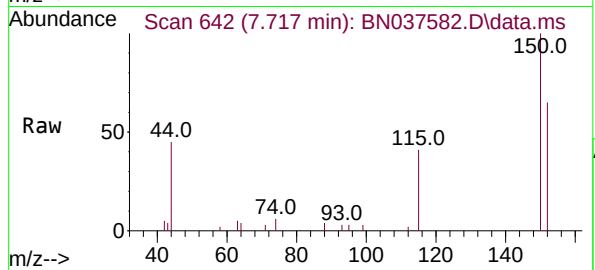




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

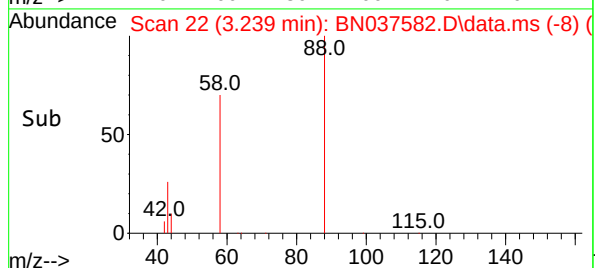
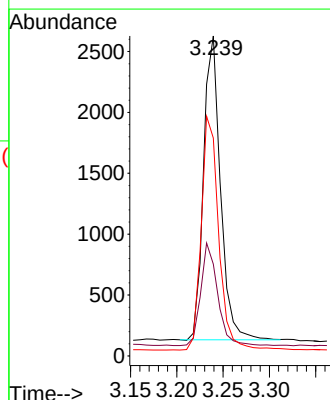
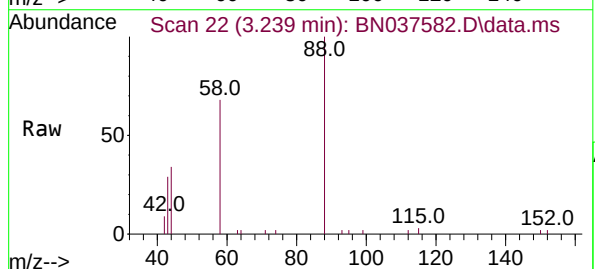
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

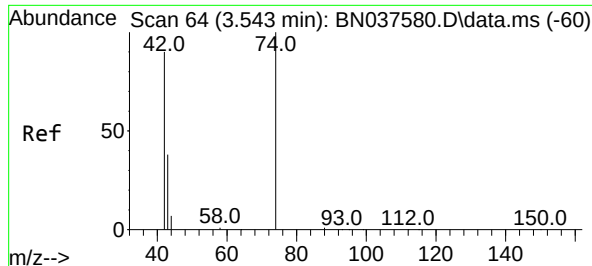
Tgt Ion:152 Resp: 1999
Ion Ratio Lower Upper
152 100
150 153.1 122.2 183.4
115 62.5 49.8 74.6



#2
1,4-Dioxane
Concen: 1.658 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 88 Resp: 3171
Ion Ratio Lower Upper
88 100
43 33.6 25.8 38.6
58 79.6 61.2 91.8

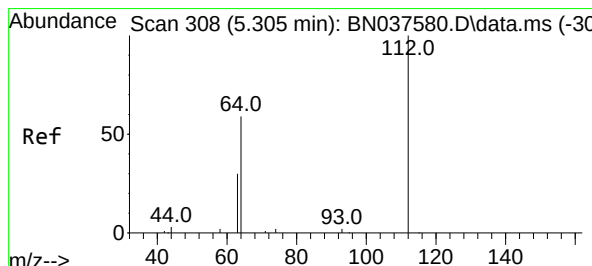
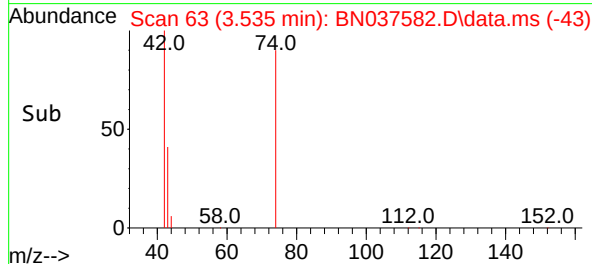
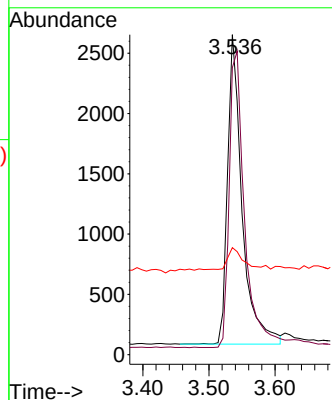
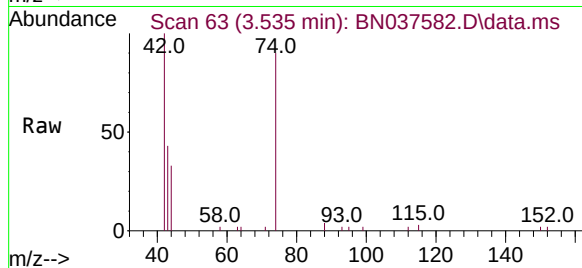




#3
n-Nitrosodimethylamine
Concen: 1.613 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

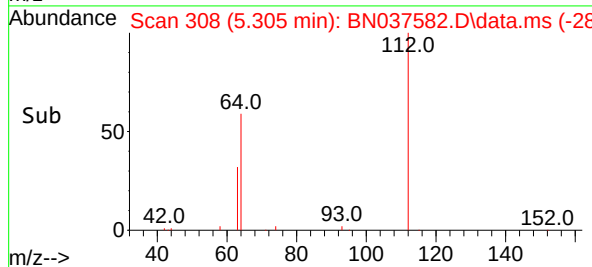
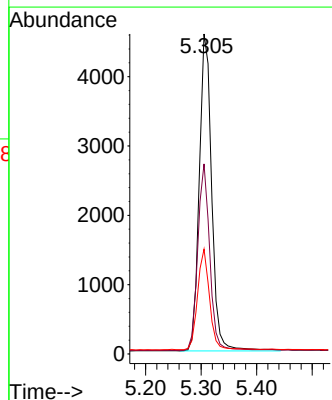
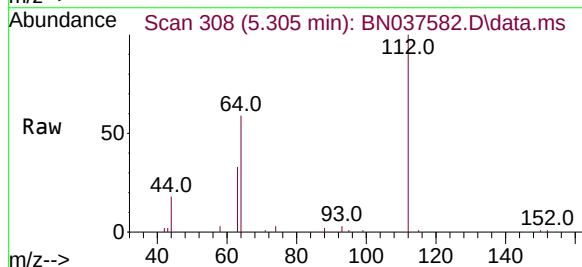
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

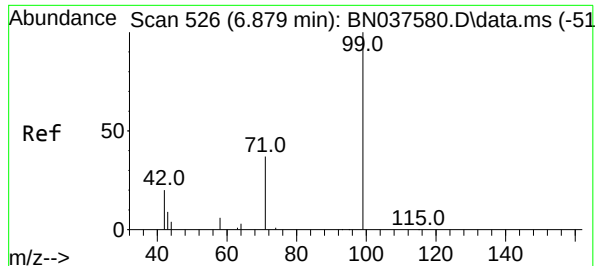
Tgt Ion: 42 Resp: 3942
Ion Ratio Lower Upper
42 100
74 105.0 82.0 123.0
44 8.0 7.9 11.9



#4
2-Fluorophenol
Concen: 1.564 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 112 Resp: 7088
Ion Ratio Lower Upper
112 100
64 56.7 44.9 67.3
63 30.5 23.4 35.2

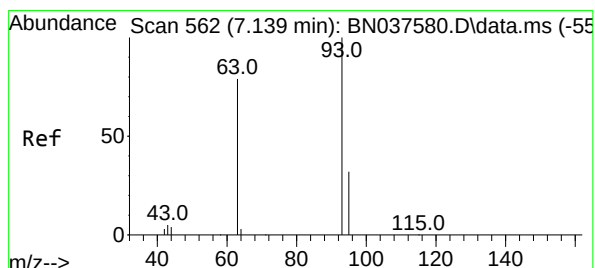
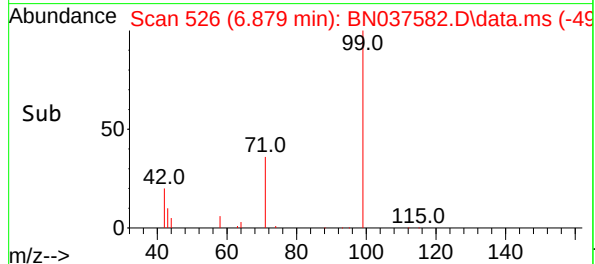
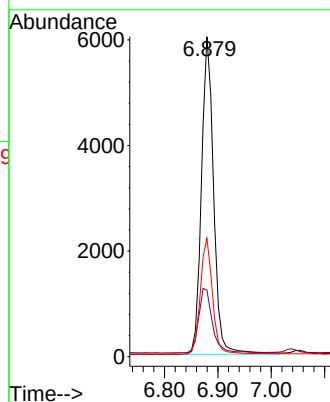
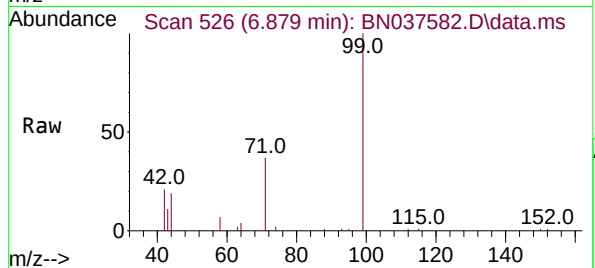




#5
Phenol-d6
Concen: 1.757 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

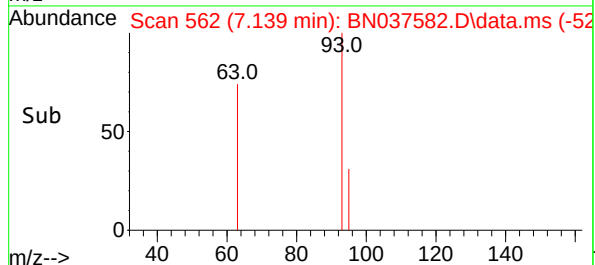
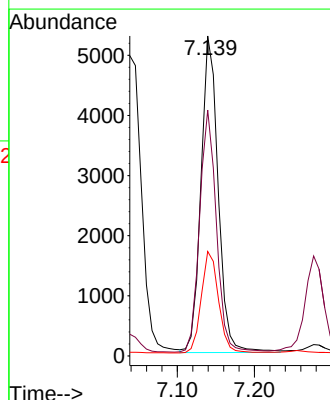
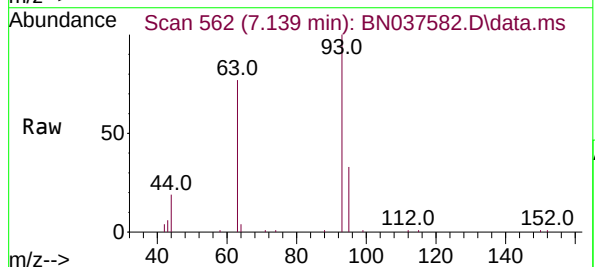
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

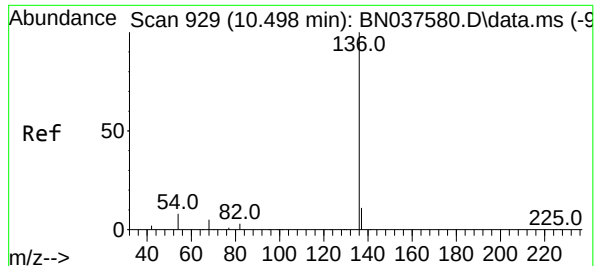
Tgt Ion: 99 Resp: 9580
Ion Ratio Lower Upper
99 100
42 22.9 18.5 27.7
71 36.8 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 1.660 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion: 93 Resp: 8159
Ion Ratio Lower Upper
93 100
63 74.6 58.0 87.0
95 32.2 24.9 37.3

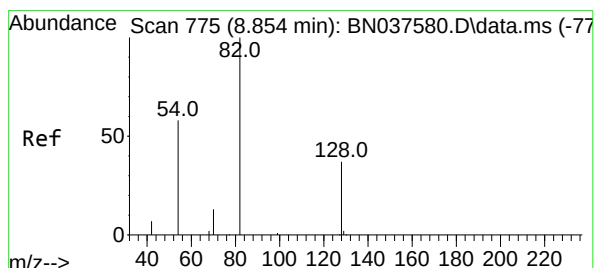
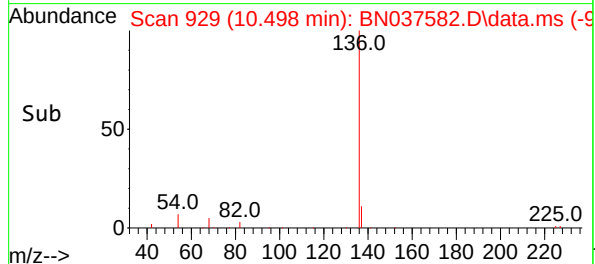
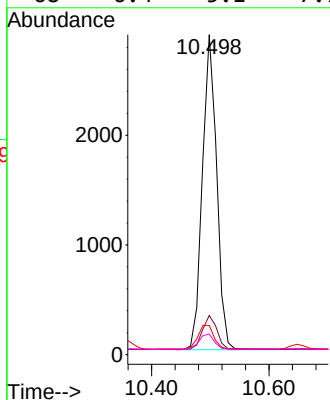
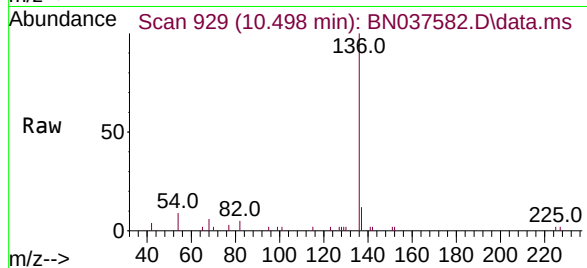




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

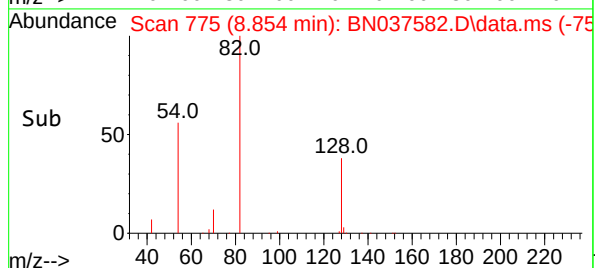
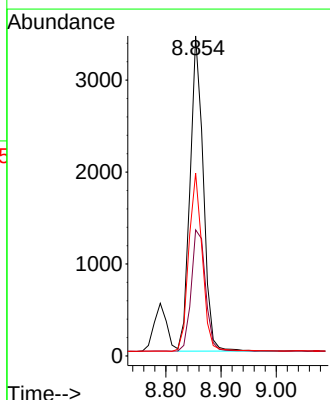
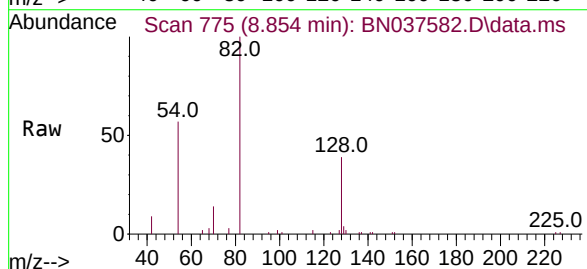
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

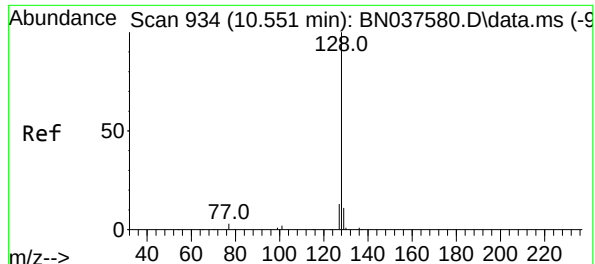
Tgt Ion:	136	Resp:	4868
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	9.1	7.3	10.9
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 1.658 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:	82	Resp:	5686
Ion	Ratio	Lower	Upper
82	100		
128	39.4	32.6	48.8
54	57.2	48.9	73.3





#9

Naphthalene

Concen: 1.636 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

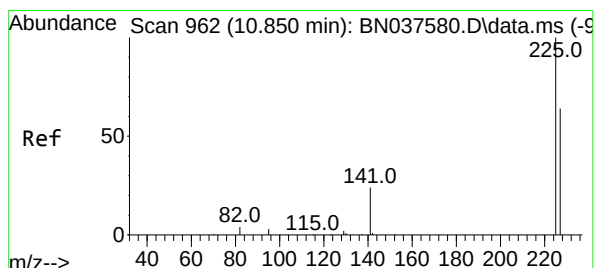
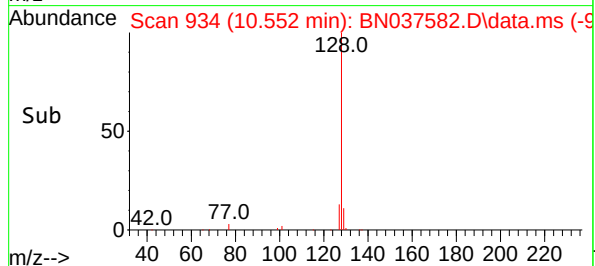
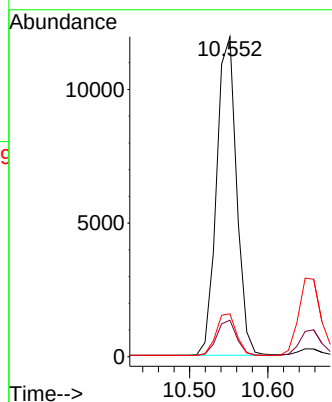
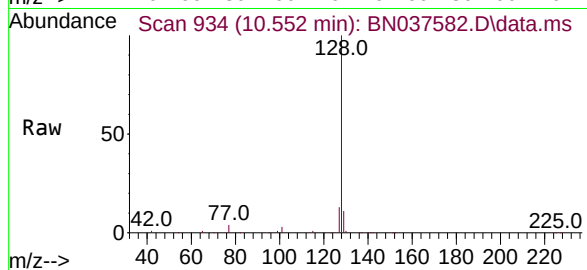
Tgt Ion:128 Resp: 21204

Ion Ratio Lower Upper

128 100

129 11.4 9.8 14.6

127 13.4 11.5 17.3



#10

Hexachlorobutadiene

Concen: 1.640 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

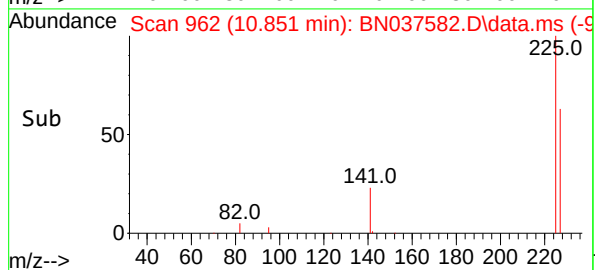
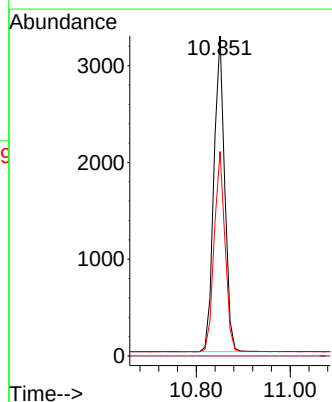
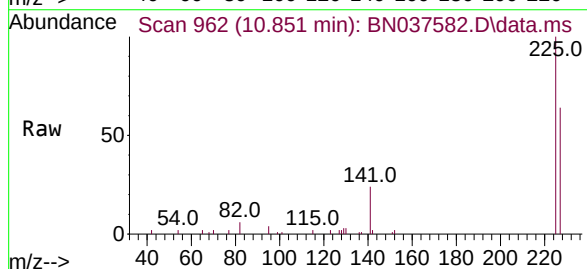
Tgt Ion:225 Resp: 5193

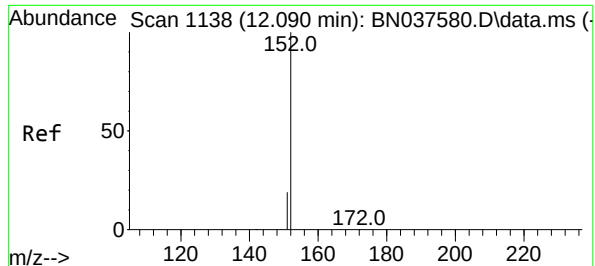
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 50.8 76.2

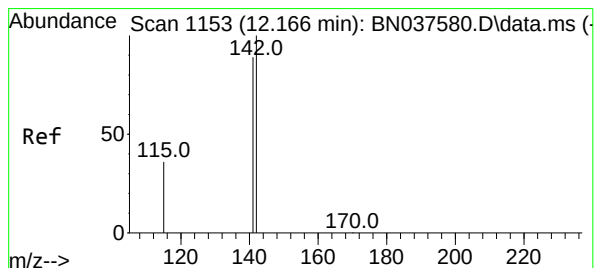
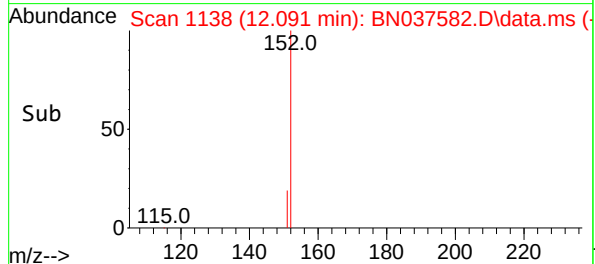
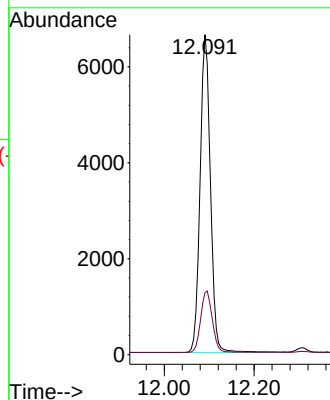
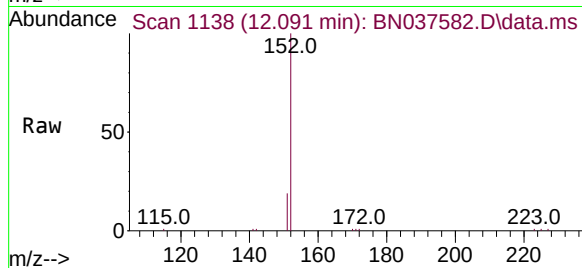




#11
2-Methylnaphthalene-d10
Concen: 1.597 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

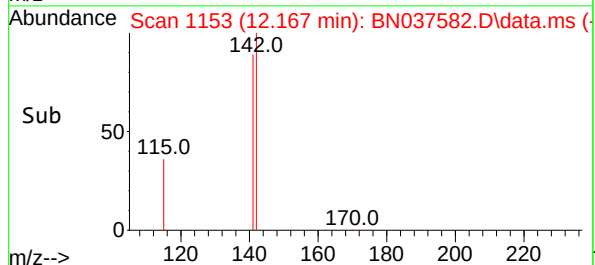
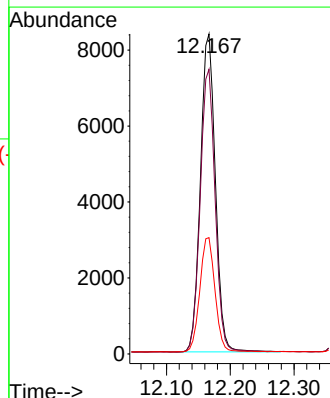
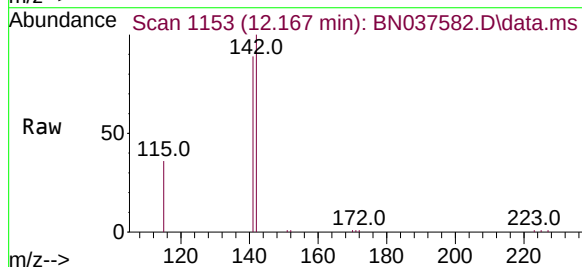
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

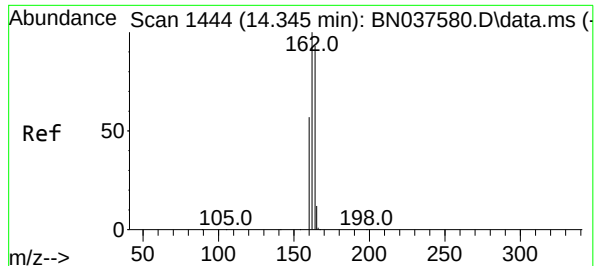
Tgt Ion:152 Resp: 10567
Ion Ratio Lower Upper
152 100
151 21.8 17.3 25.9



#12
2-Methylnaphthalene
Concen: 1.679 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:142 Resp: 13647
Ion Ratio Lower Upper
142 100
141 88.9 71.4 107.0
115 36.4 30.2 45.4

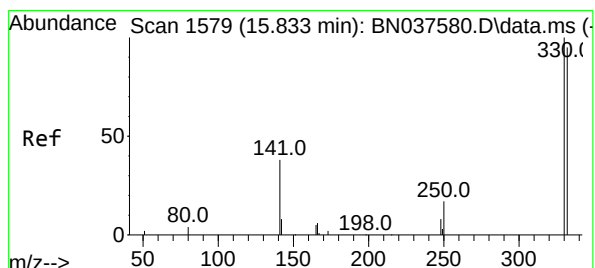
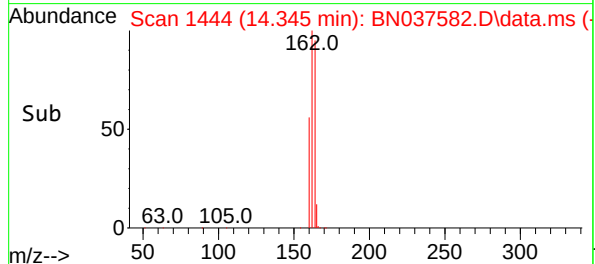
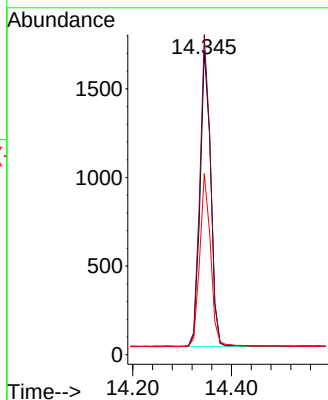
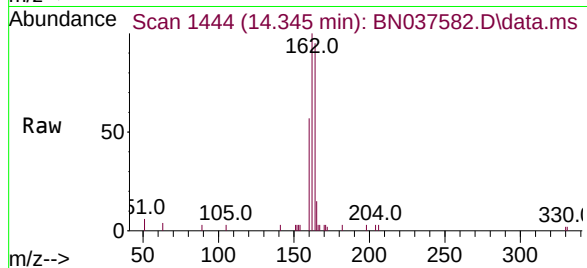




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

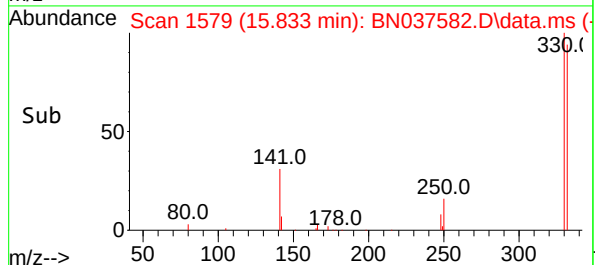
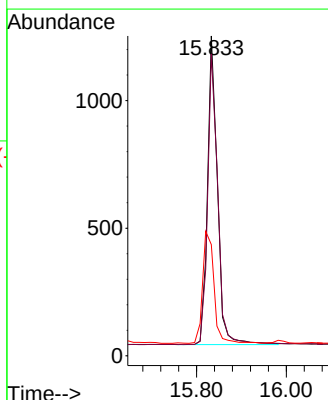
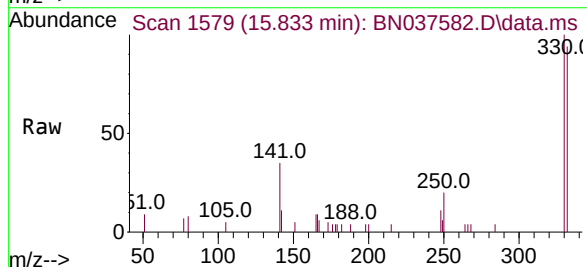
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

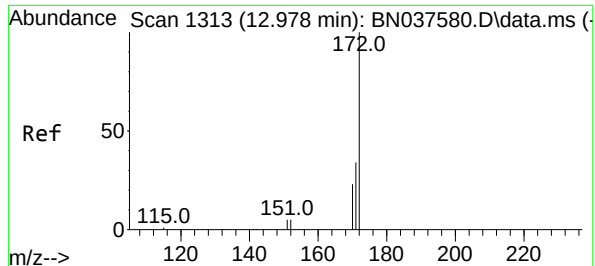
Tgt Ion:164 Resp: 2499
Ion Ratio Lower Upper
164 100
162 105.2 85.5 128.3
160 59.6 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 1.693 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:330 Resp: 1852
Ion Ratio Lower Upper
330 100
332 96.2 77.4 116.0
141 41.4 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 1.619 ng

RT: 12.973 min Scan# 1312

Delta R.T. -0.005 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

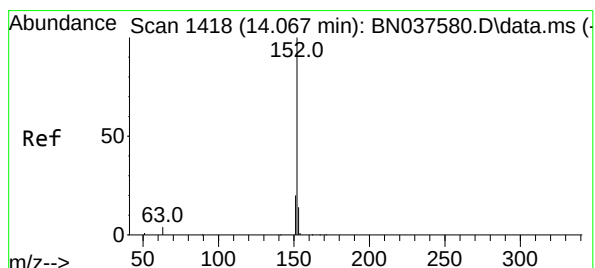
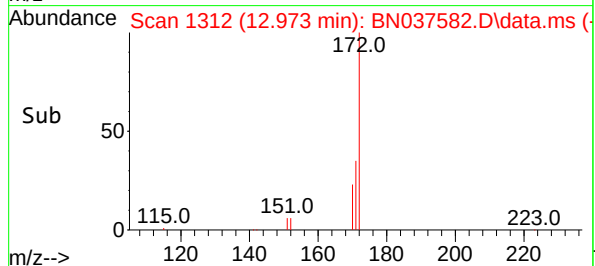
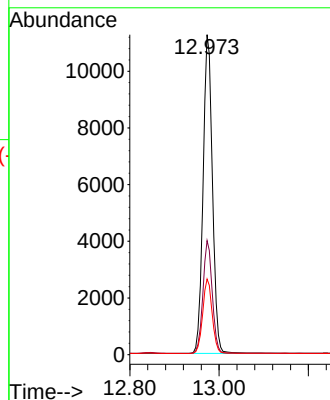
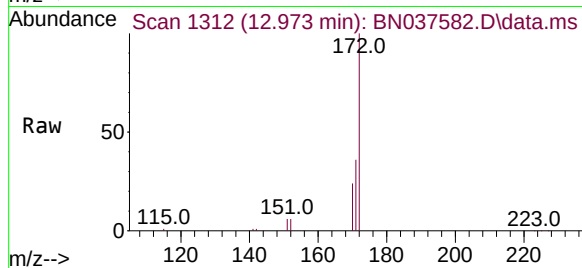
Tgt Ion:172 Resp: 23403

Ion Ratio Lower Upper

172 100

171 35.7 28.2 42.4

170 23.7 19.2 28.8



#16

Acenaphthylene

Concen: 1.651 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

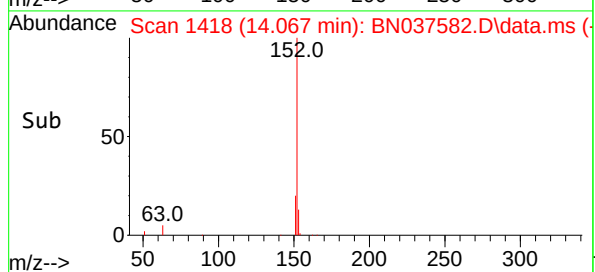
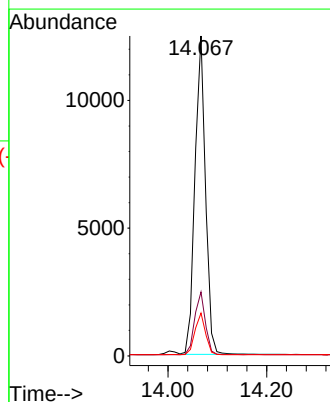
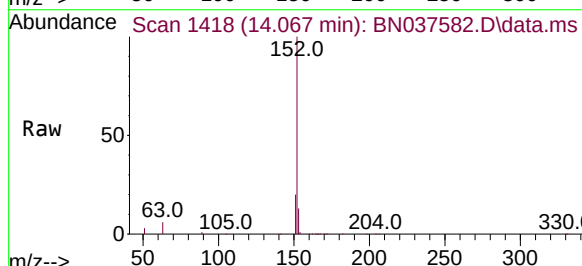
Tgt Ion:152 Resp: 18492

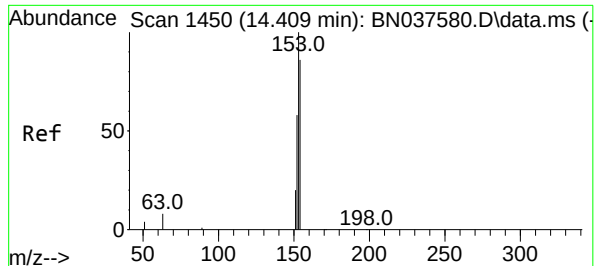
Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

153 13.0 10.7 16.1

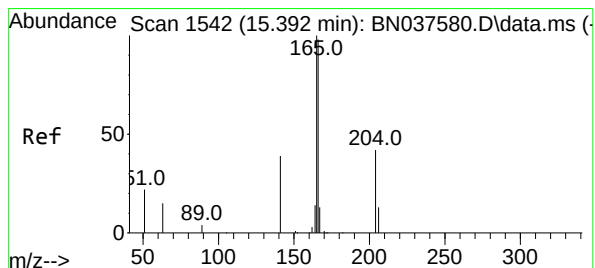
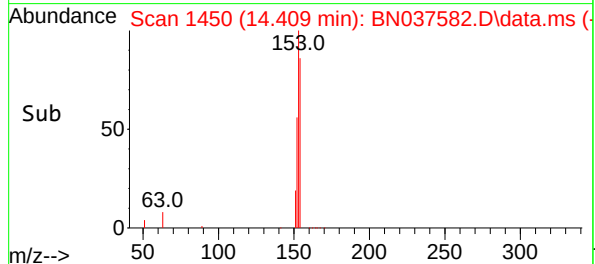
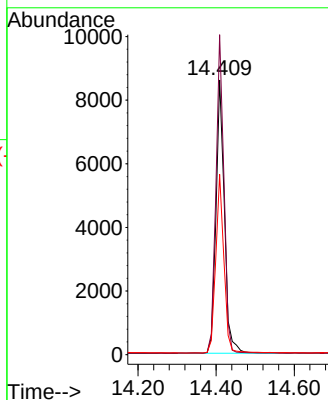
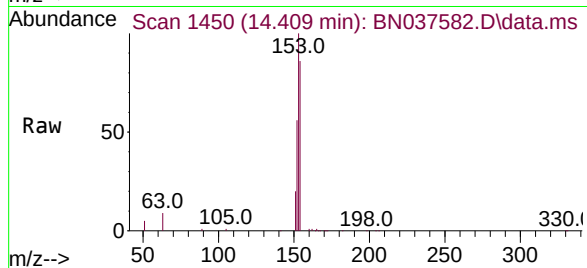




#17
Acenaphthene
Concen: 1.682 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

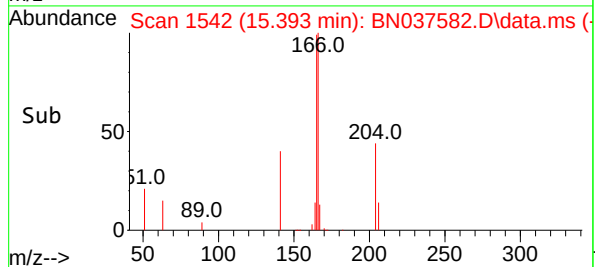
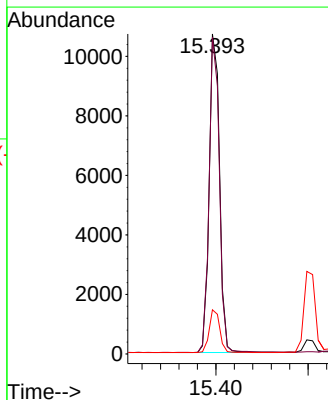
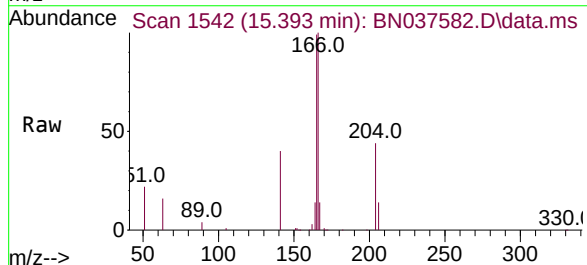
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

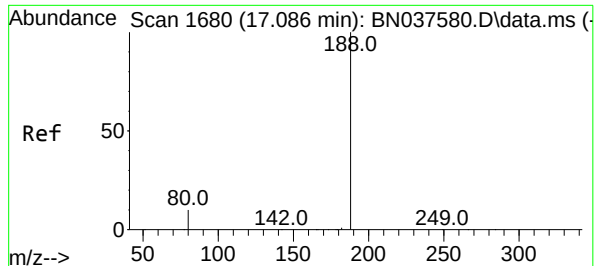
Tgt Ion:154 Resp: 12820
Ion Ratio Lower Upper
154 100
153 110.6 90.6 135.8
152 63.8 54.9 82.3



#18
Fluorene
Concen: 1.691 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:166 Resp: 16858
Ion Ratio Lower Upper
166 100
165 99.0 78.9 118.3
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

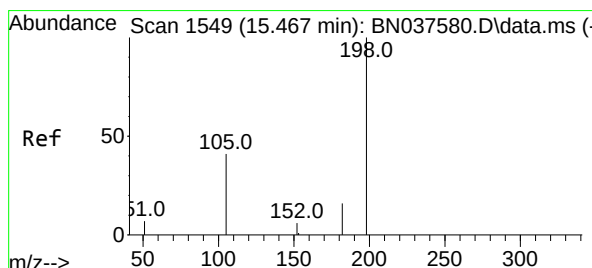
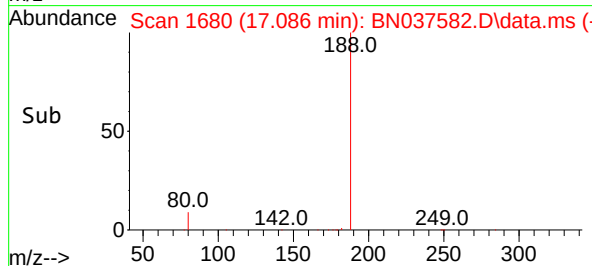
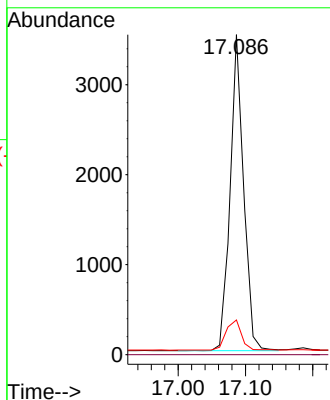
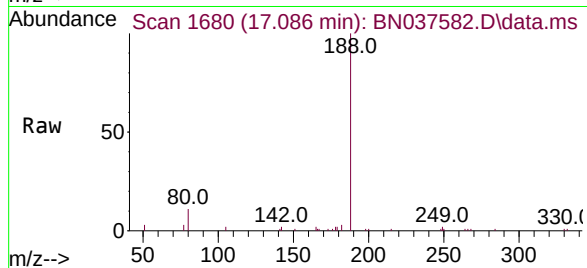
Tgt Ion:188 Resp: 4868

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 1.517 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

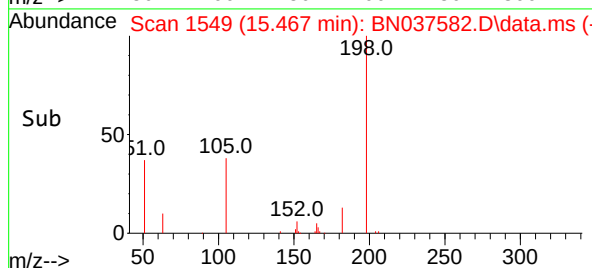
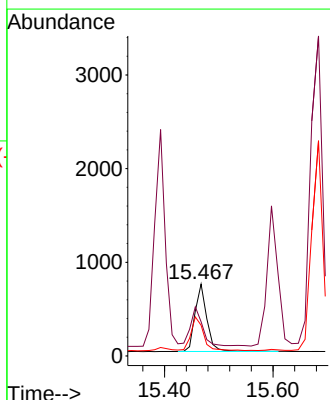
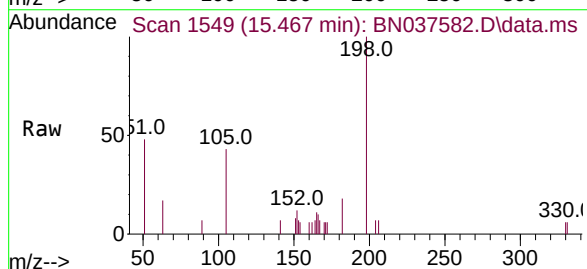
Tgt Ion:198 Resp: 1182

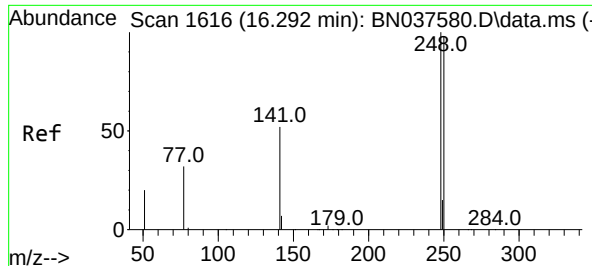
Ion Ratio Lower Upper

198 100

51 47.6 81.0 121.6#

105 42.8 52.5 78.7#

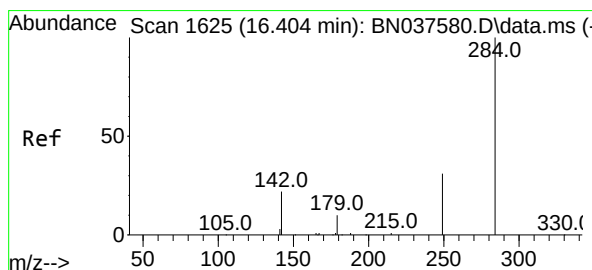
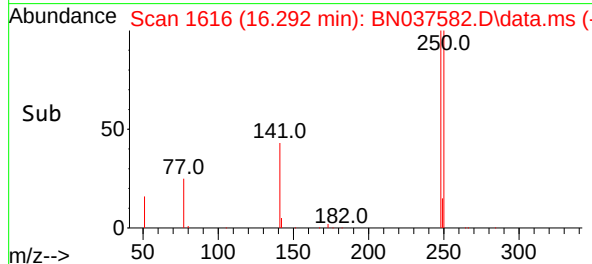
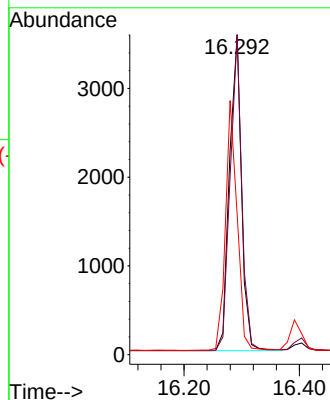
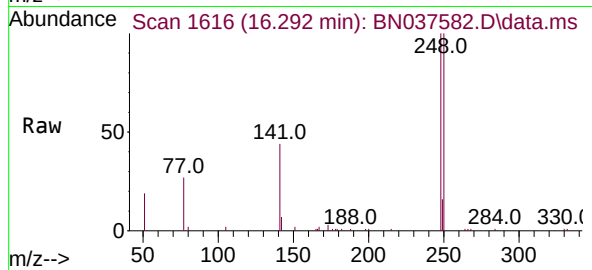




#21
4-Bromophenyl-phenylether
Concen: 1.686 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

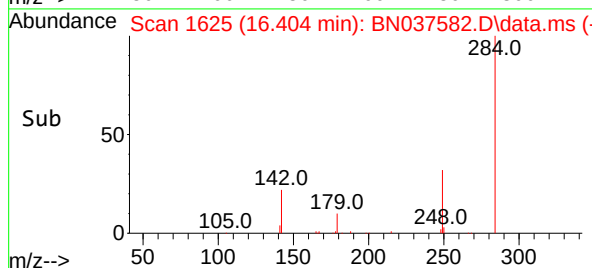
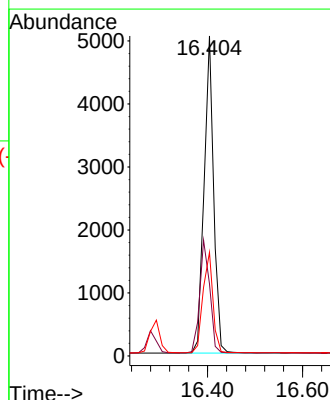
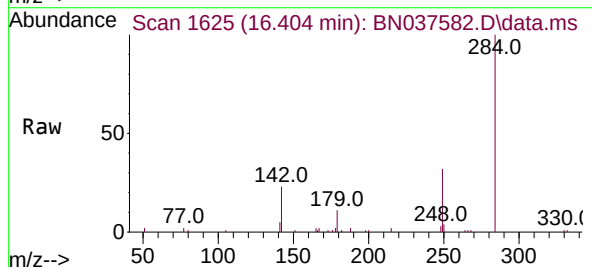
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

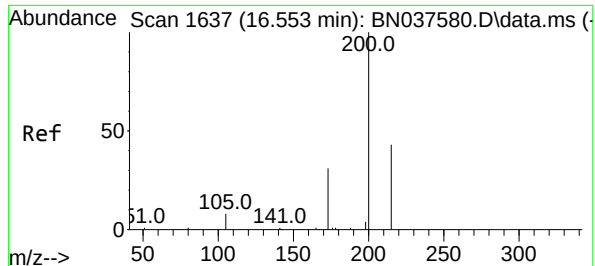
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.1	78.6	118.0
141	43.9	43.7	65.5



#22
Hexachlorobenzene
Concen: 1.633 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	29.8	44.6
249	33.1	26.0	39.0





#23

Atrazine

Concen: 1.803 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

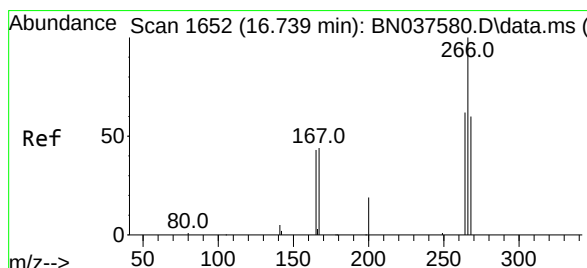
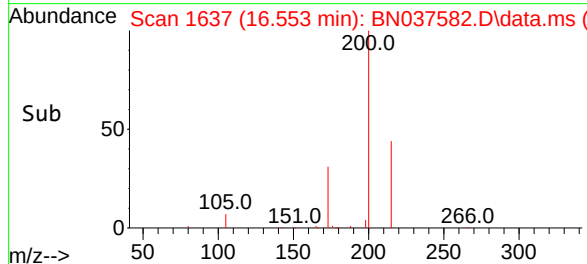
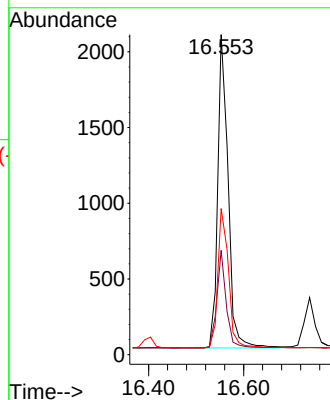
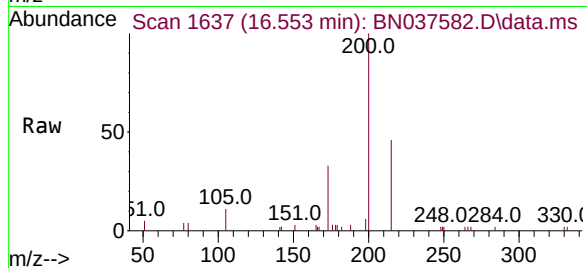
Tgt Ion:200 Resp: 3118

Ion Ratio Lower Upper

200 100

173 32.6 31.0 46.4

215 45.7 39.4 59.0



#24

Pentachlorophenol

Concen: 1.775 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

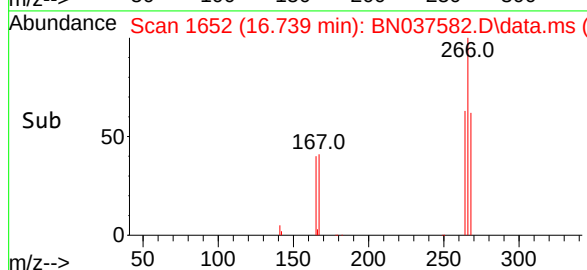
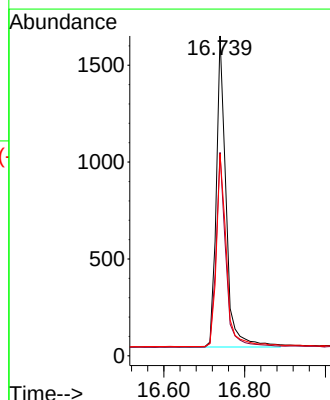
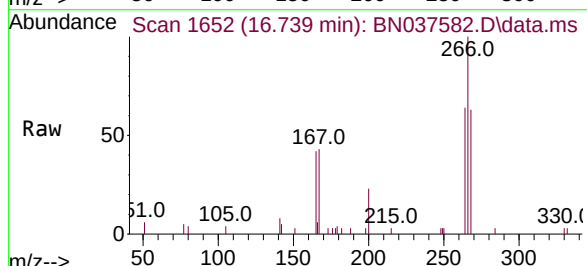
Tgt Ion:266 Resp: 2704

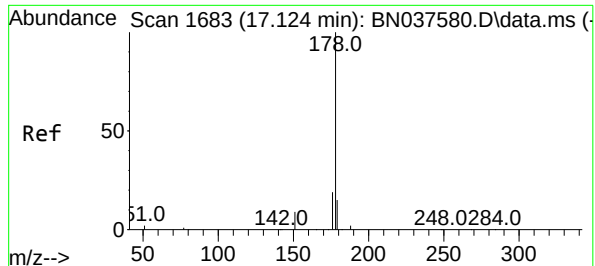
Ion Ratio Lower Upper

266 100

264 62.2 49.6 74.4

268 63.5 49.2 73.8

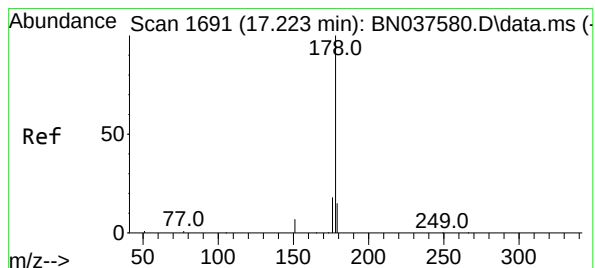
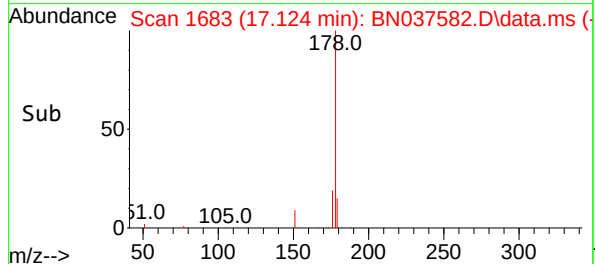
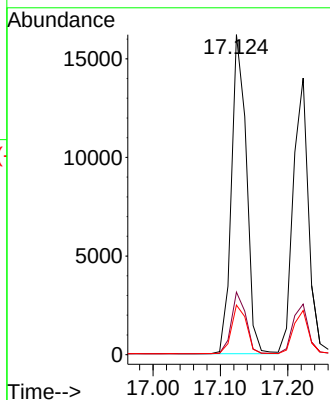
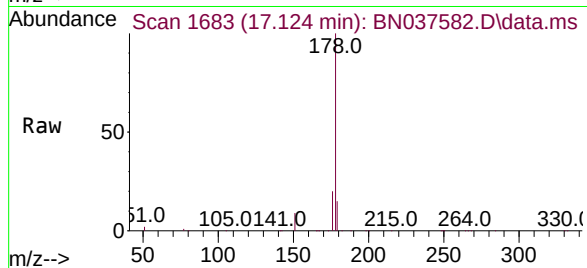




#25
Phenanthrene
Concen: 1.685 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

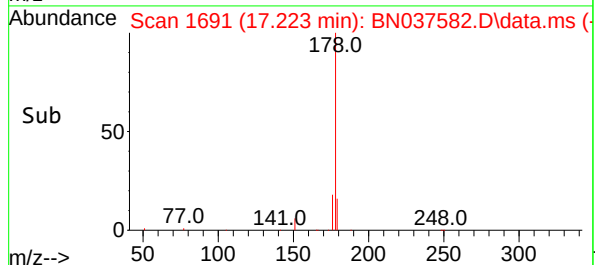
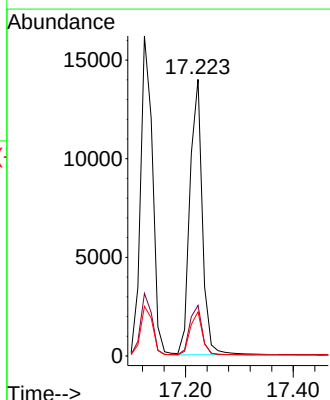
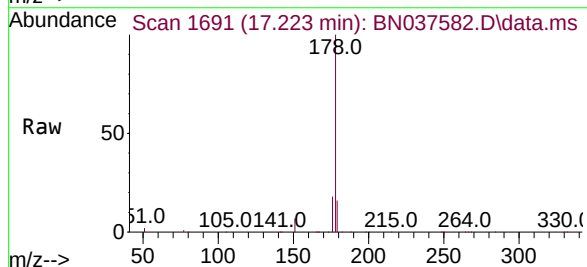
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

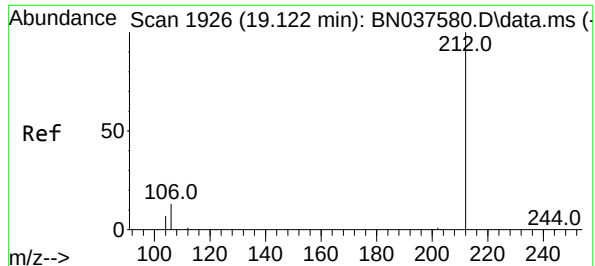
Tgt Ion:178 Resp: 24938
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5



#26
Anthracene
Concen: 1.701 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:178 Resp: 22287
Ion Ratio Lower Upper
178 100
176 18.3 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

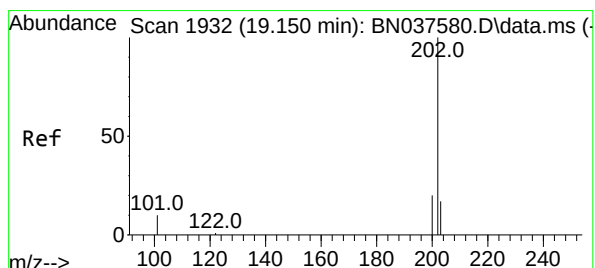
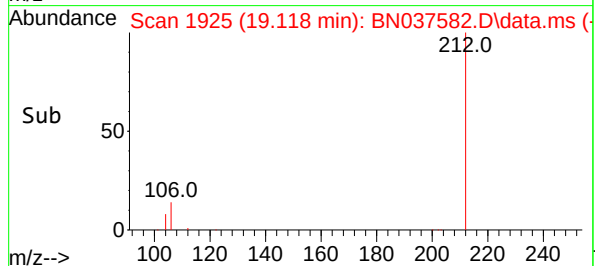
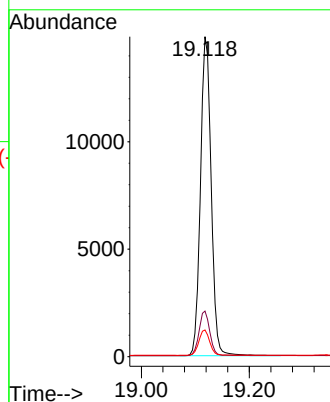
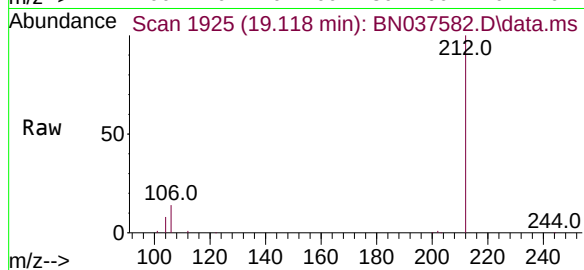
Tgt Ion:212 Resp: 20450

Ion Ratio Lower Upper

212 100

106 14.0 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 1.721 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

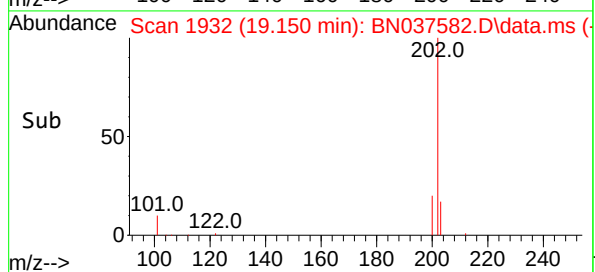
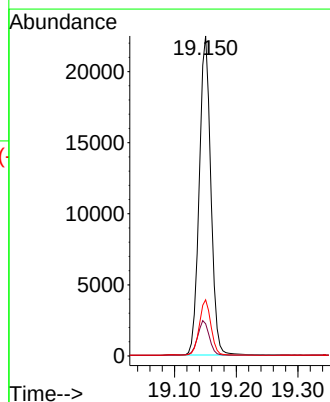
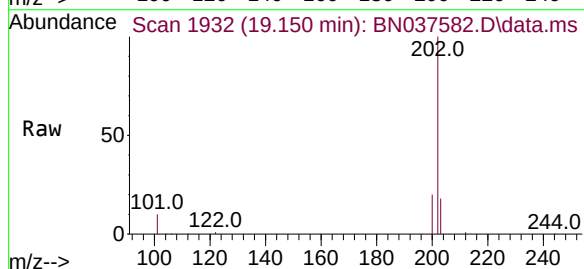
Tgt Ion:202 Resp: 29263

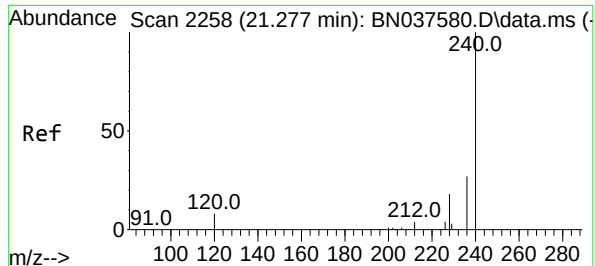
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

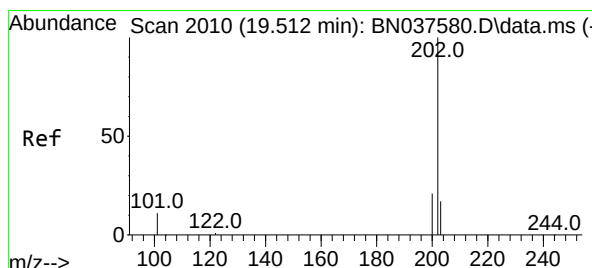
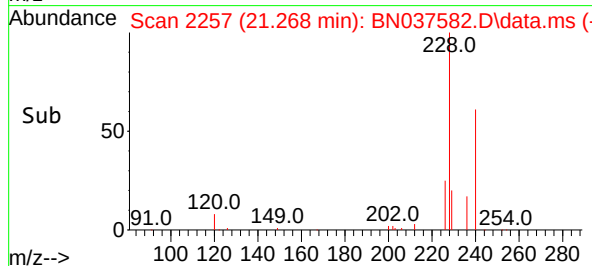
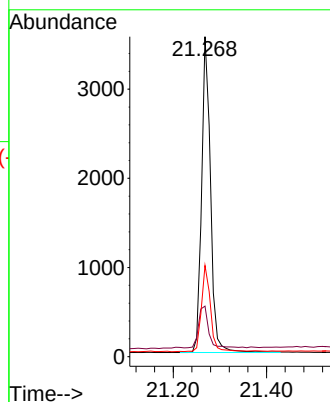
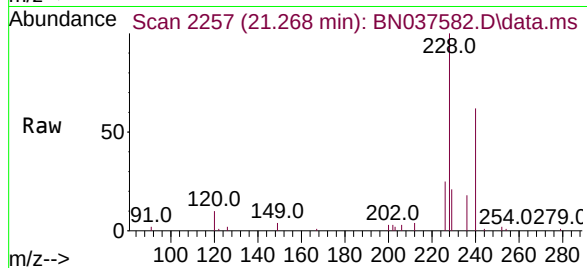
Tgt Ion:240 Resp: 4728

Ion Ratio Lower Upper

240 100

120 15.8 8.9 13.3#

236 28.5 22.6 33.8



#30

Pyrene

Concen: 1.607 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

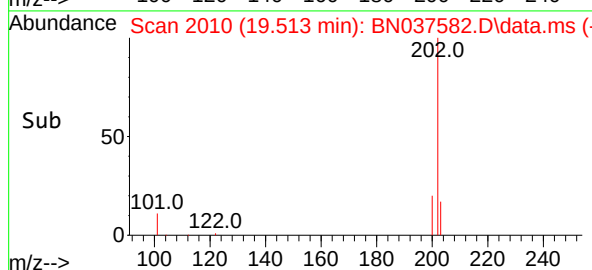
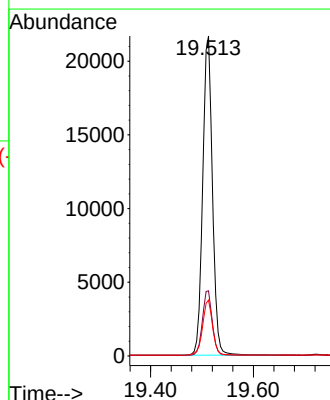
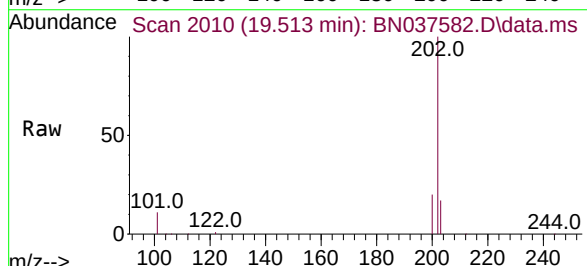
Tgt Ion:202 Resp: 28406

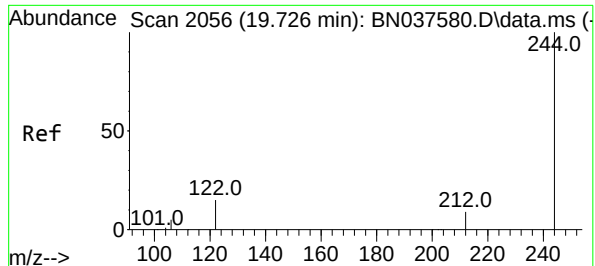
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.6 14.3 21.5

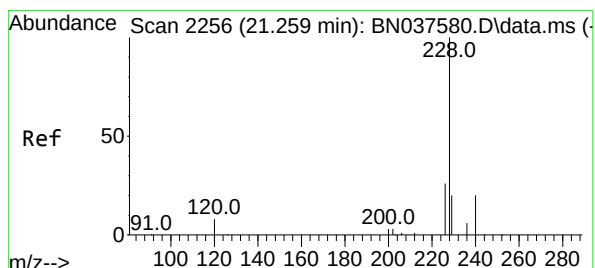
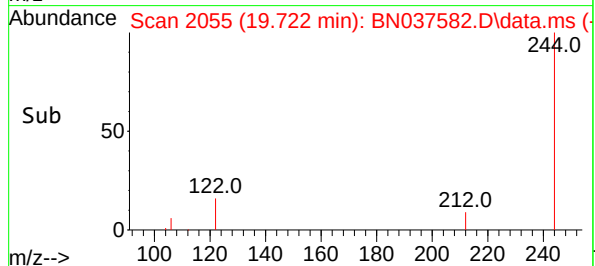
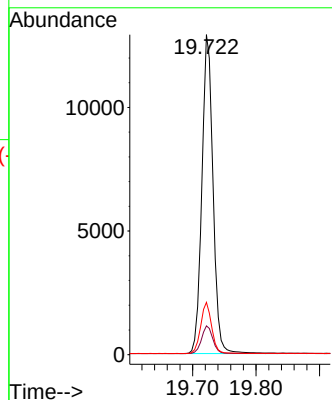
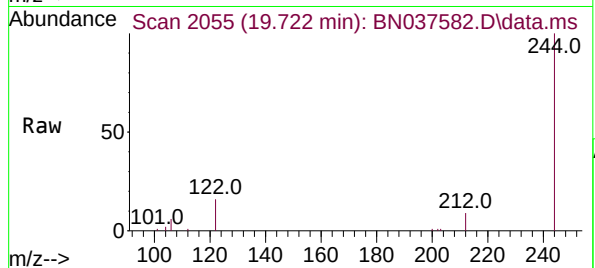




#31
Terphenyl-d14
Concen: 1.620 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

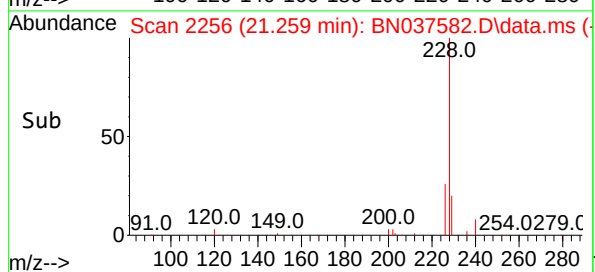
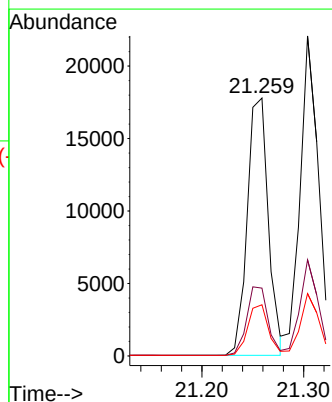
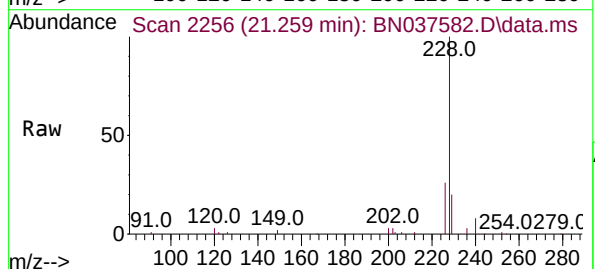
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

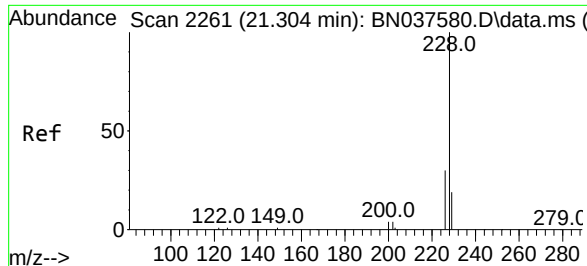
Tgt Ion:244 Resp: 15761
Ion Ratio Lower Upper
244 100
212 9.0 8.2 12.2
122 16.3 13.2 19.8



#32
Benzo(a)anthracene
Concen: 1.618 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion:228 Resp: 25547
Ion Ratio Lower Upper
228 100
226 26.3 21.5 32.3
229 19.9 16.5 24.7





#33

Chrysene

Concen: 1.624 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

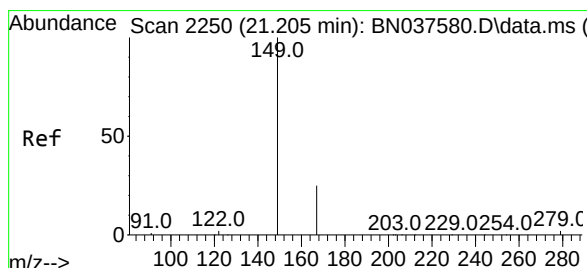
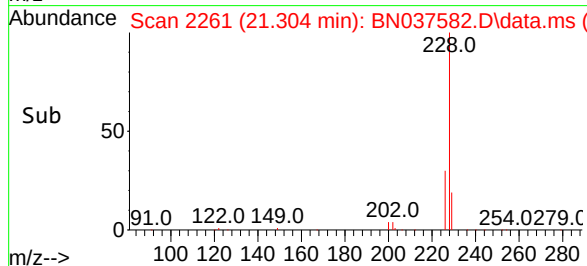
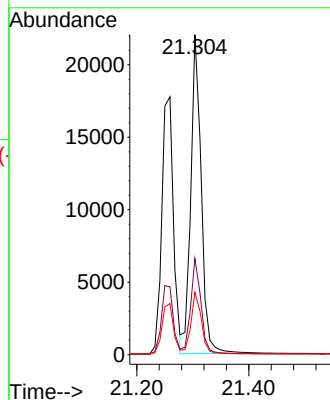
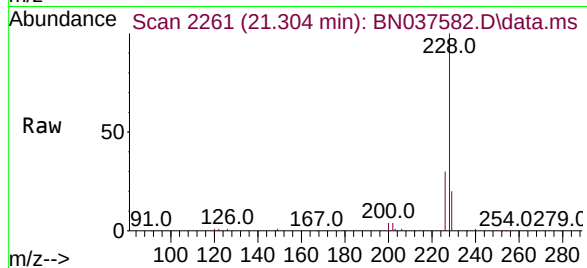
Tgt Ion:228 Resp: 28577

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

229 19.5 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.514 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

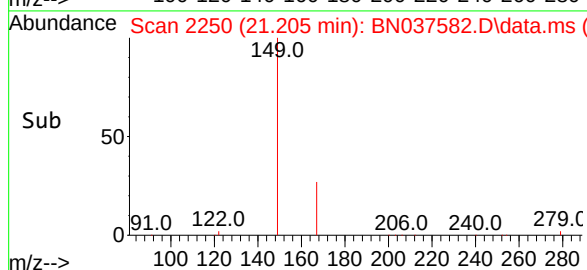
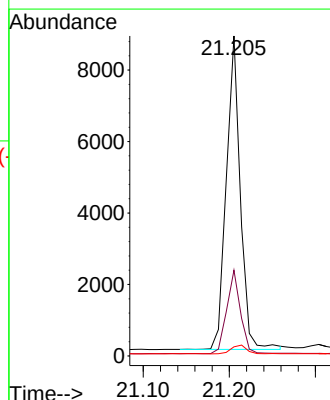
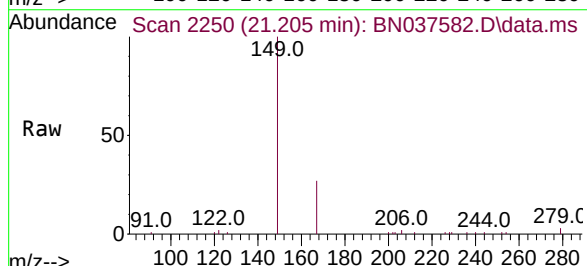
Tgt Ion:149 Resp: 9868

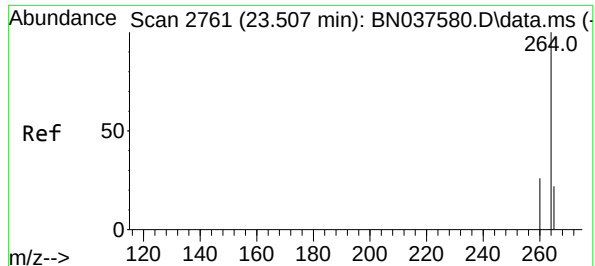
Ion Ratio Lower Upper

149 100

167 26.1 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

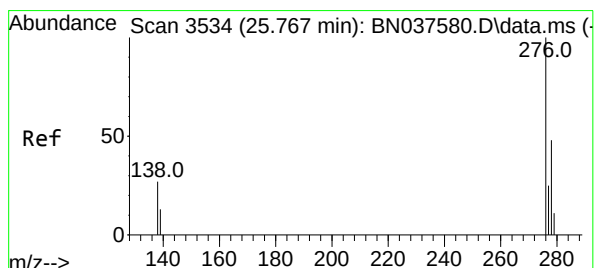
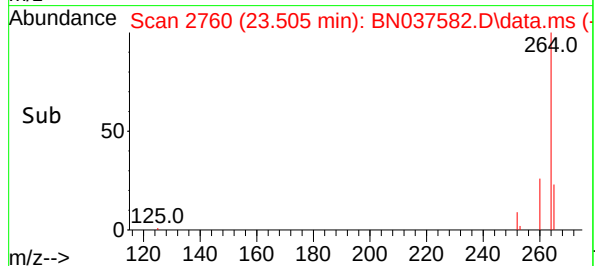
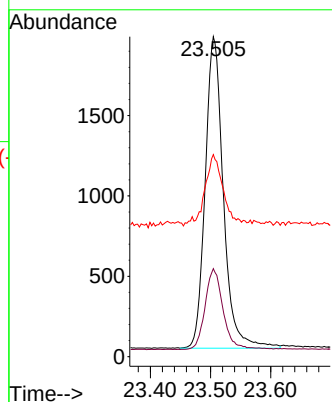
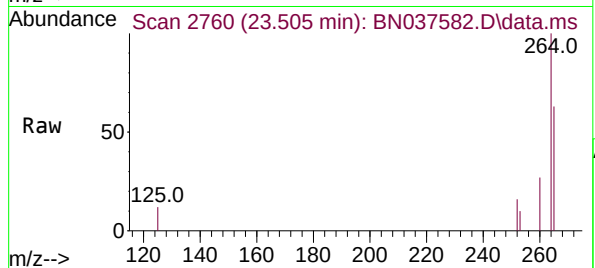
Tgt Ion:264 Resp: 4054

Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

265 63.1 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.724 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

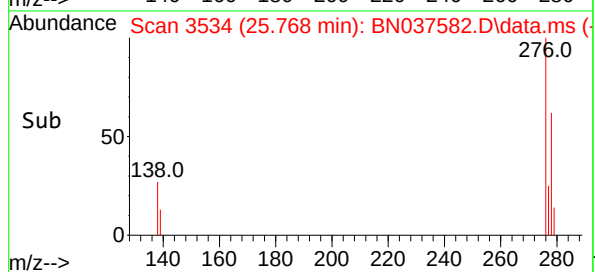
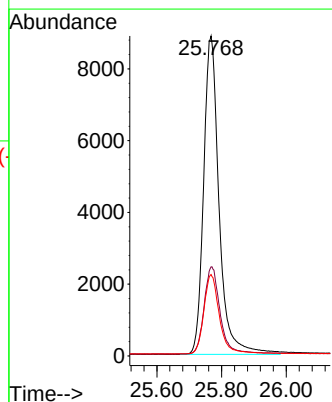
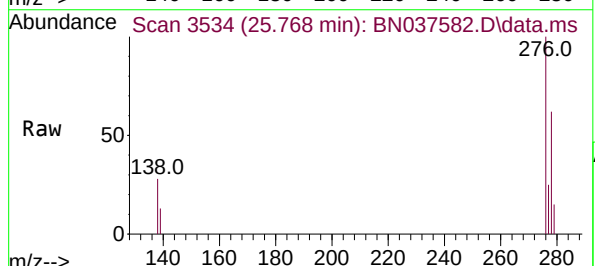
Tgt Ion:276 Resp: 29448

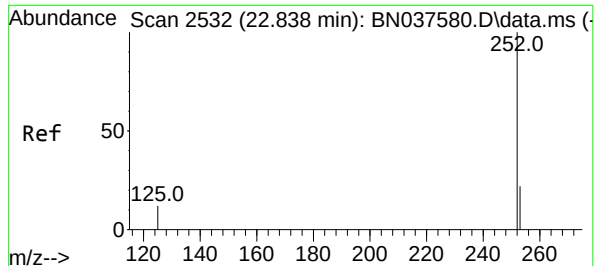
Ion Ratio Lower Upper

276 100

138 28.3 23.3 34.9

277 25.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.705 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

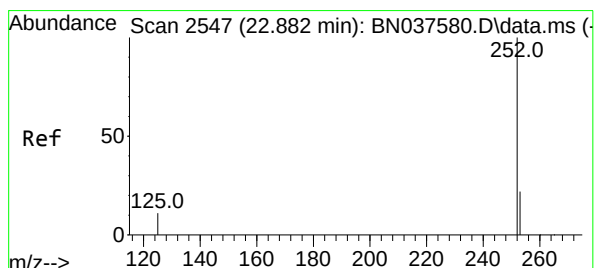
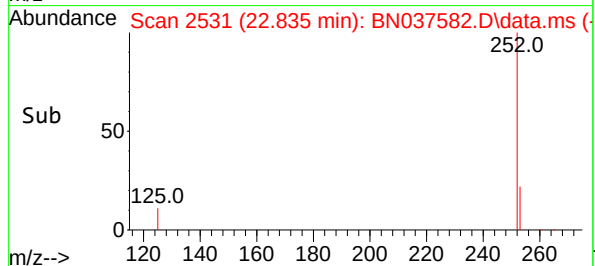
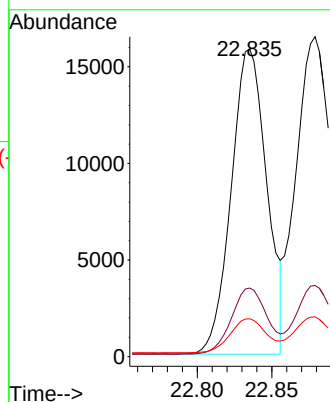
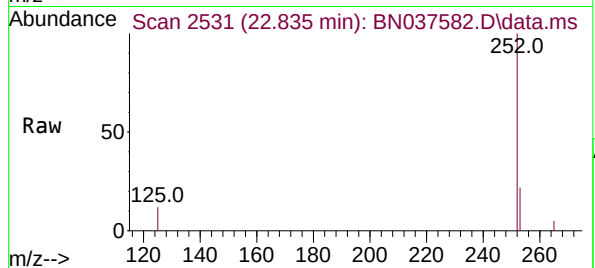
Tgt Ion:252 Resp: 26189

Ion Ratio Lower Upper

252 100

253 22.3 20.0 30.0

125 12.3 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 1.703 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

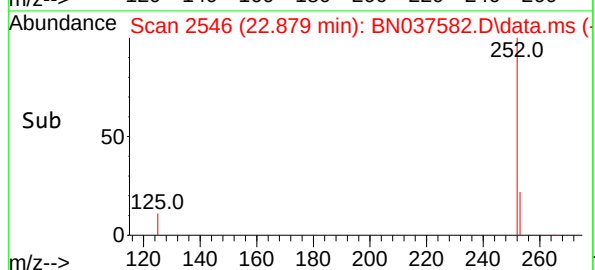
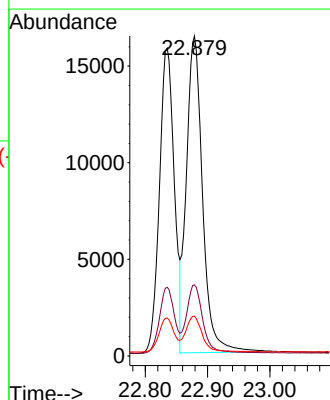
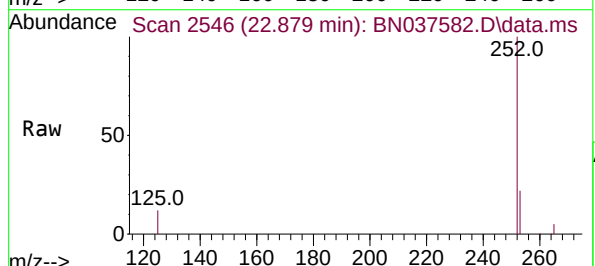
Tgt Ion:252 Resp: 29528

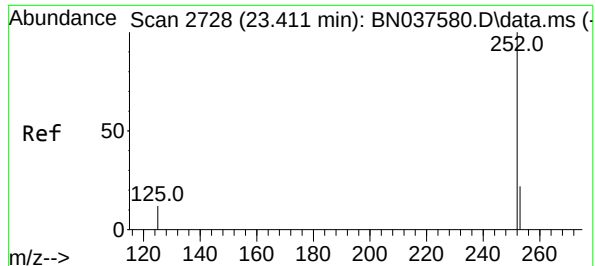
Ion Ratio Lower Upper

252 100

253 22.2 19.9 29.9

125 12.5 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 1.683 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

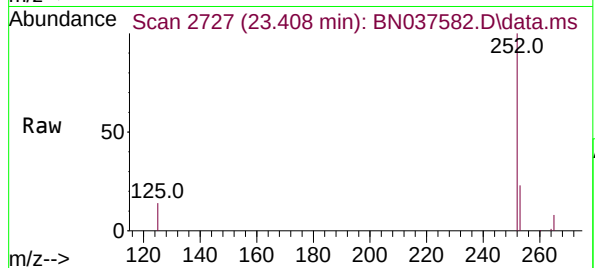
Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



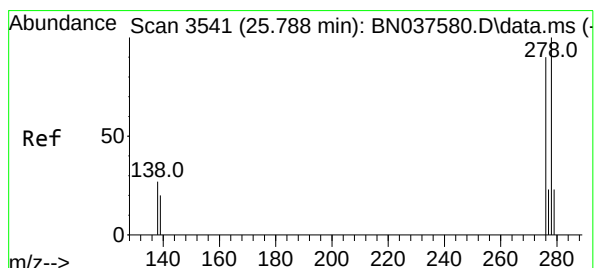
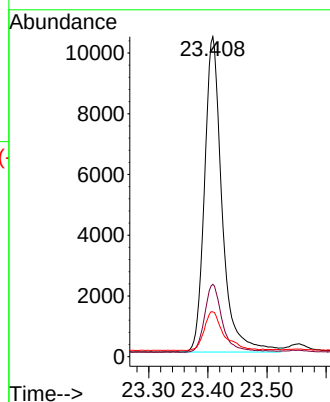
Tgt Ion:252 Resp: 21441

Ion Ratio Lower Upper

252 100

253 22.6 21.6 32.4

125 14.0 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.761 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

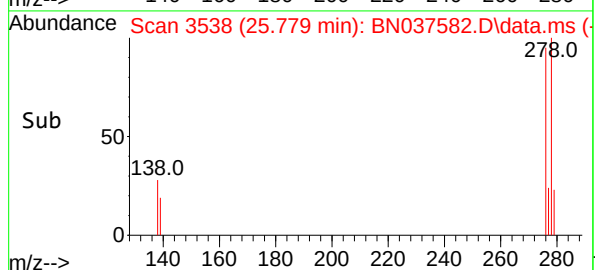
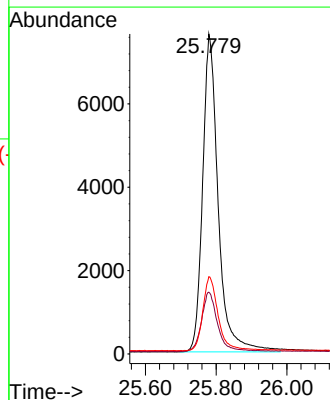
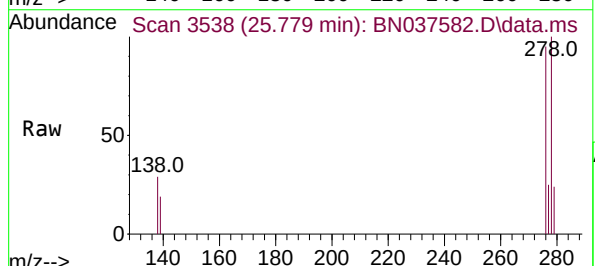
Tgt Ion:278 Resp: 23334

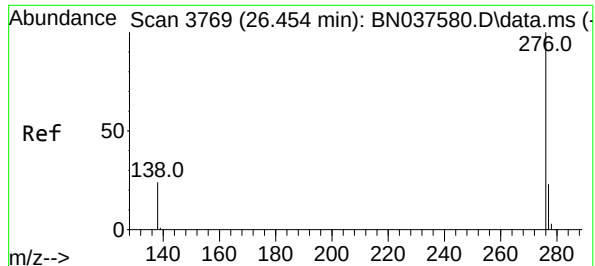
Ion Ratio Lower Upper

278 100

139 19.3 18.3 27.5

279 24.2 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 1.703 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037582.D

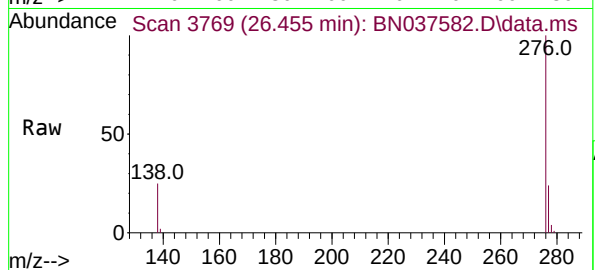
Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



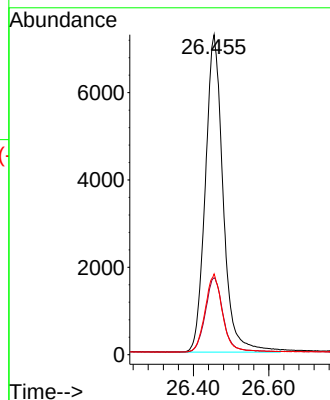
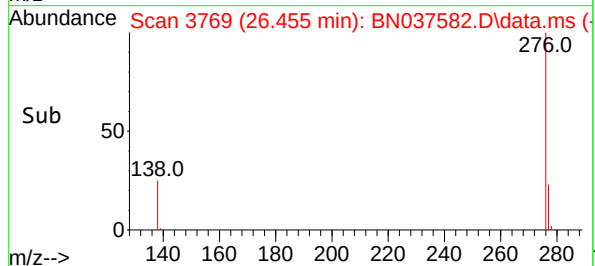
Tgt Ion:276 Resp: 23781

Ion Ratio Lower Upper

276 100

277 24.1 21.0 31.4

138 25.2 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037583.D
 Acq On : 12 Aug 2025 19:29
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Aug 13 04:49:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

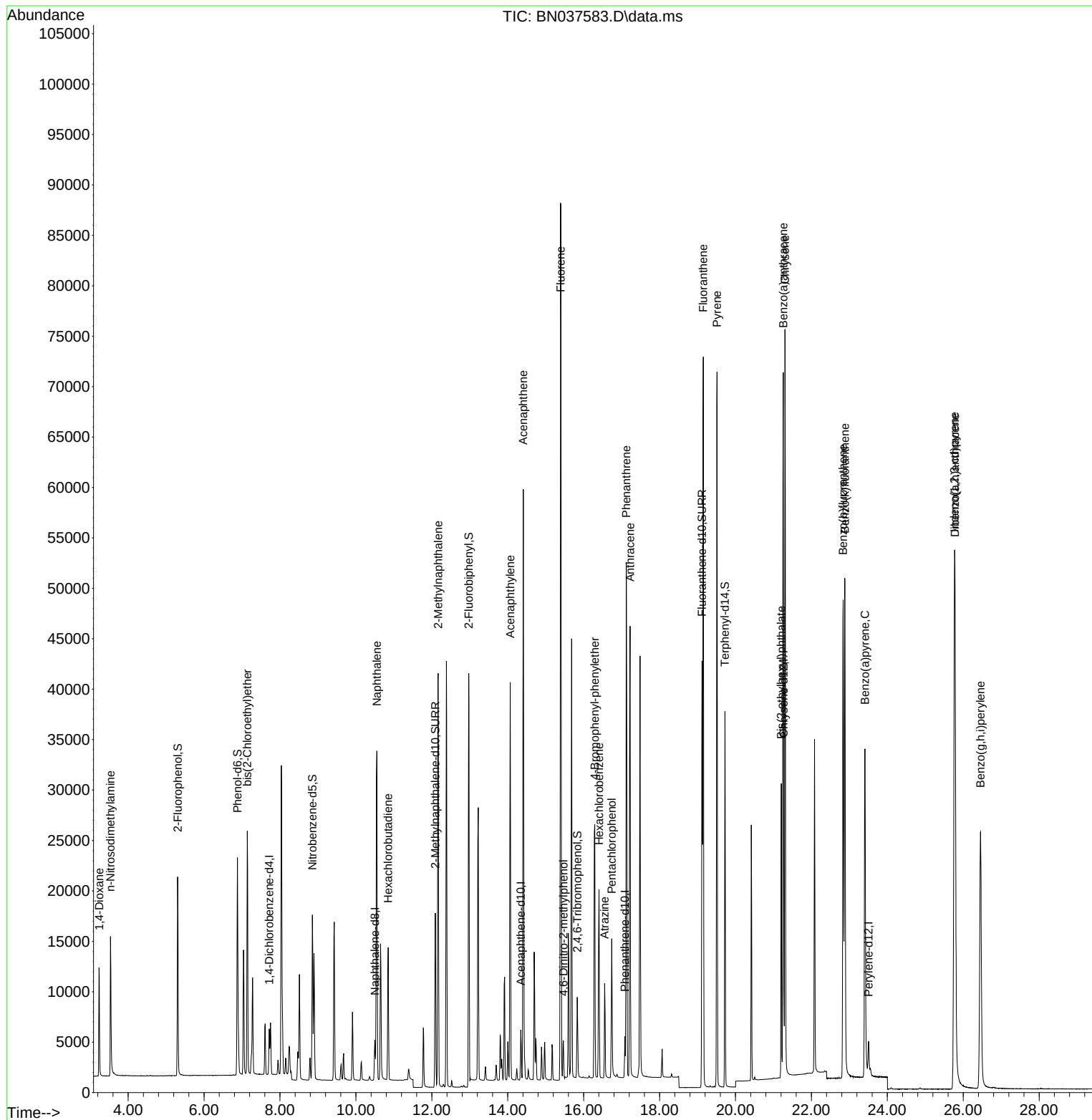
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2075	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5019	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2699	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5200	0.400	ng	0.00
29) Chrysene-d12	21.268	240	5116	0.400	ng	# 0.00
35) Perylene-d12	23.508	264	4411	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	15044	3.198	ng	0.00
5) Phenol-d6	6.879	99	18546	3.276	ng	0.00
8) Nitrobenzene-d5	8.854	82	12097	3.422	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	23211	3.402	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	4382	3.710	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	51634	3.308	ng	0.00
27) Fluoranthene-d10	19.118	212	46178	3.376	ng	0.00
31) Terphenyl-d14	19.722	244	34892	3.315	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	6233	3.140	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.536	42	8352	3.292	ng	97
6) bis(2-Chloroethyl)ether	7.139	93	16734	3.280	ng	98
9) Naphthalene	10.552	128	43991	3.292	ng	97
10) Hexachlorobutadiene	10.851	225	10602	3.248	ng	# 99
12) 2-Methylnaphthalene	12.167	142	29337	3.501	ng	98
16) Acenaphthylene	14.067	152	40122	3.316	ng	99
17) Acenaphthene	14.409	154	27774	3.375	ng	94
18) Fluorene	15.393	166	36565	3.396	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	2906	3.257	ng	# 49
21) 4-Bromophenyl-phenylether	16.292	248	11254	3.444	ng	# 92
22) Hexachlorobenzene	16.404	284	14747	3.183	ng	100
23) Atrazine	16.553	200	7330	3.967	ng	94
24) Pentachlorophenol	16.739	266	6325	3.887	ng	97
25) Phenanthrene	17.124	178	52784	3.339	ng	100
26) Anthracene	17.223	178	49333	3.525	ng	100
28) Fluoranthene	19.150	202	63765	3.511	ng	100
30) Pyrene	19.513	202	62227	3.254	ng	100
32) Benzo(a)anthracene	21.259	228	59663	3.491	ng	98
33) Chrysene	21.304	228	60925	3.199	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	24265	3.440	ng	99
36) Indeno(1,2,3-cd)pyrene	25.768	276	66459	3.576	ng	99
37) Benzo(b)fluoranthene	22.835	252	59086	3.535	ng	# 92
38) Benzo(k)fluoranthene	22.879	252	63422	3.363	ng	# 90
39) Benzo(a)pyrene	23.411	252	48767	3.518	ng	# 87
40) Dibenzo(a,h)anthracene	25.782	278	53486	3.709	ng	92
41) Benzo(g,h,i)perylene	26.455	276	54068	3.558	ng	95

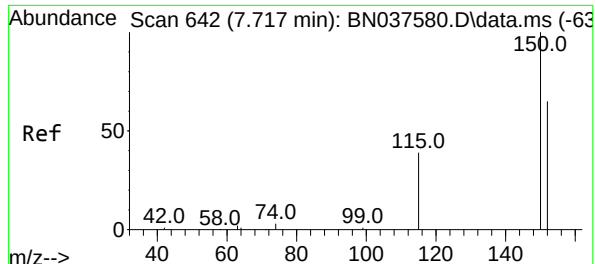
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037583.D
Acq On : 12 Aug 2025 19:29
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Aug 13 04:49:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

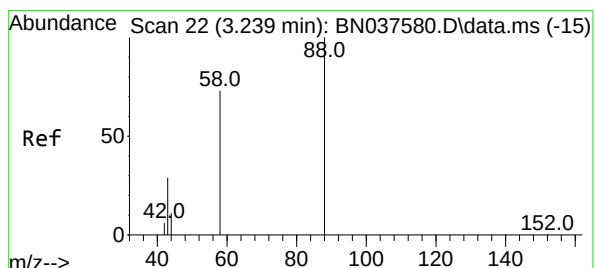
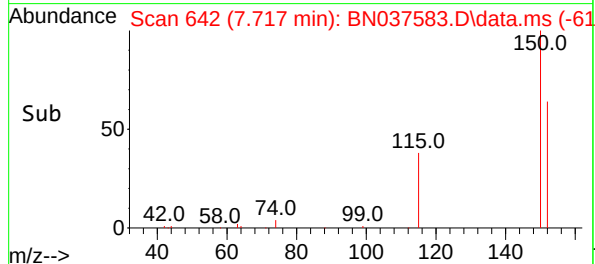
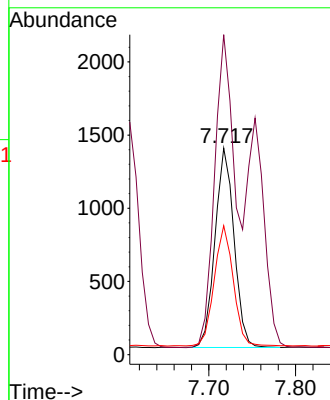
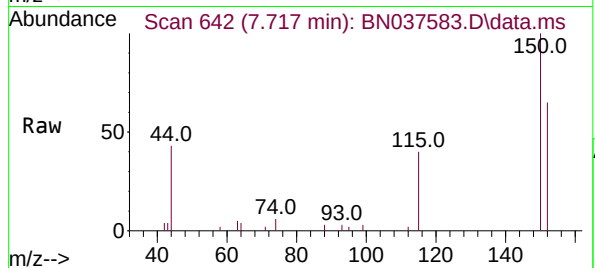




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

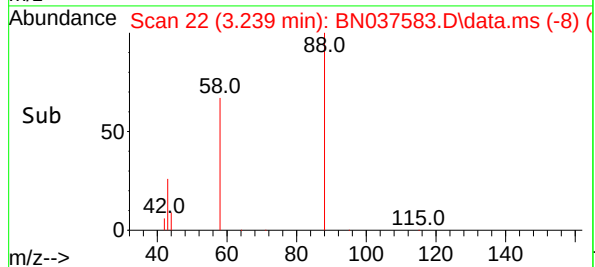
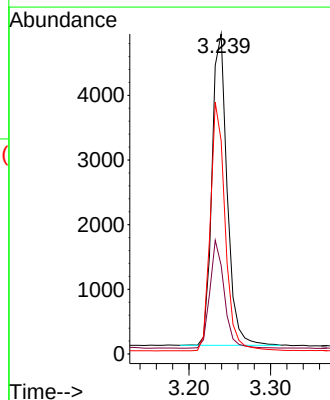
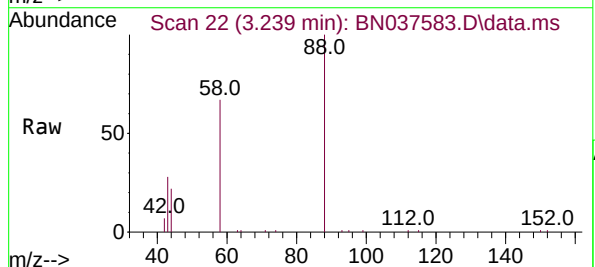
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

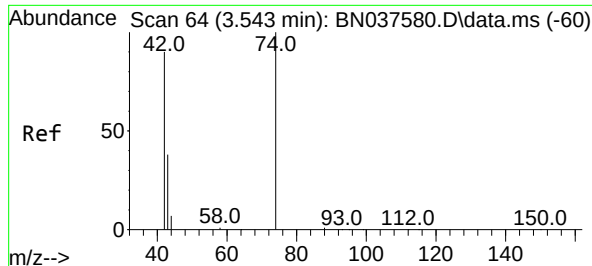
Tgt Ion:152 Resp: 2075
Ion Ratio Lower Upper
152 100
150 154.9 122.2 183.4
115 62.4 49.8 74.6



#2
1,4-Dioxane
Concen: 3.140 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion: 88 Resp: 6233
Ion Ratio Lower Upper
88 100
43 32.9 25.8 38.6
58 78.1 61.2 91.8

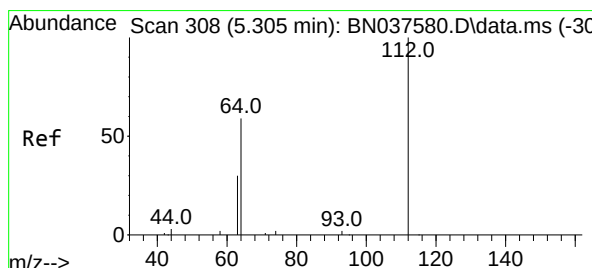
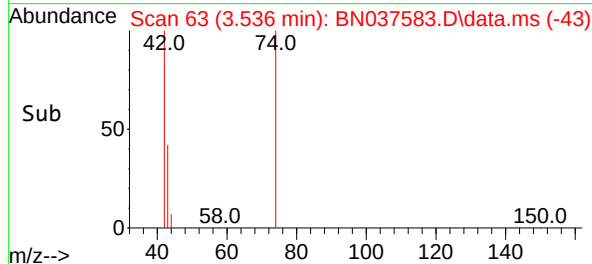
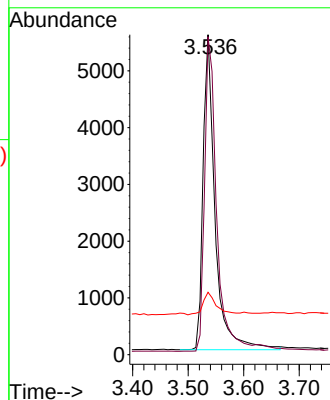
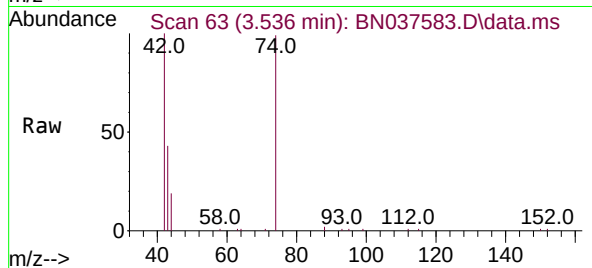




#3
n-Nitrosodimethylamine
Concen: 3.292 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

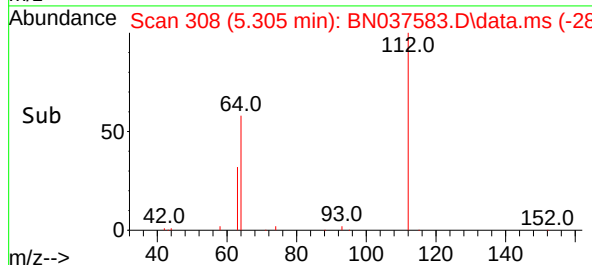
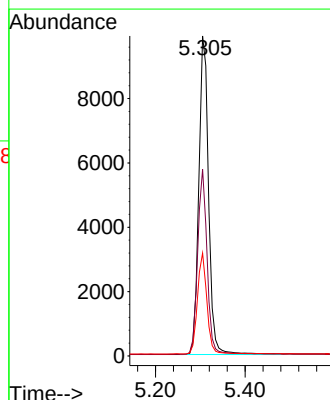
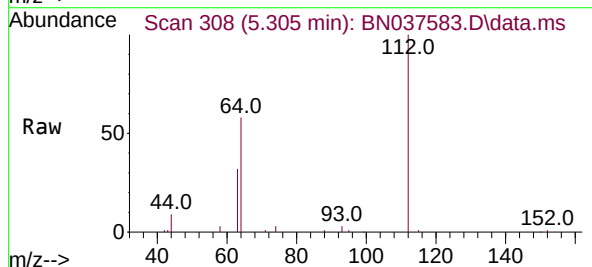
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

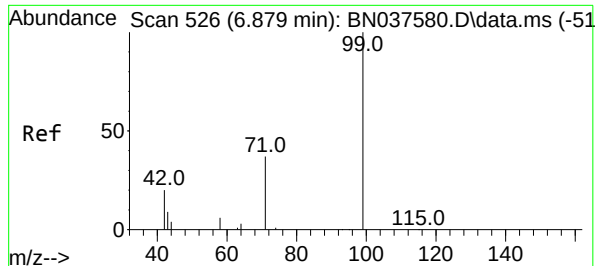
Tgt Ion: 42 Resp: 8352
Ion Ratio Lower Upper
42 100
74 99.7 82.0 123.0
44 8.0 7.9 11.9



#4
2-Fluorophenol
Concen: 3.198 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion: 112 Resp: 15044
Ion Ratio Lower Upper
112 100
64 56.5 44.9 67.3
63 30.7 23.4 35.2

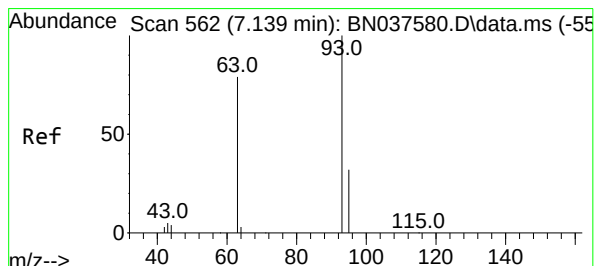
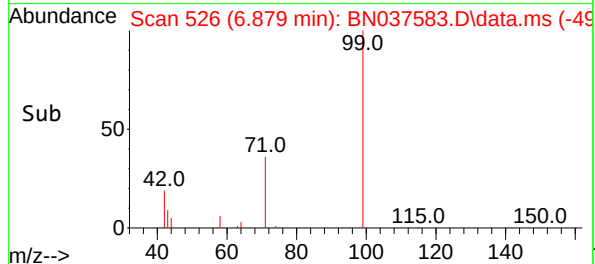
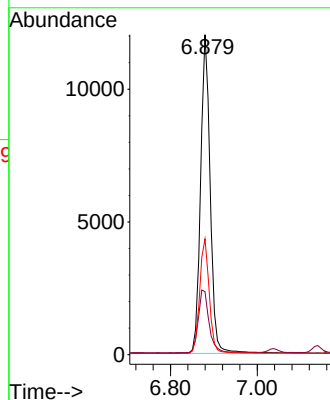
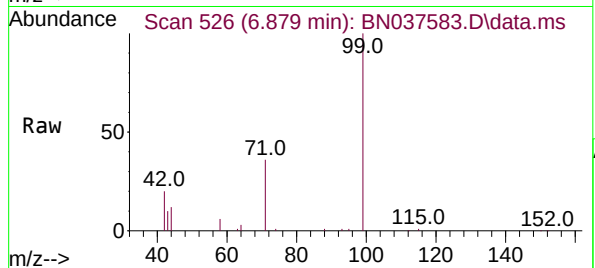




#5
Phenol-d6
Concen: 3.276 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

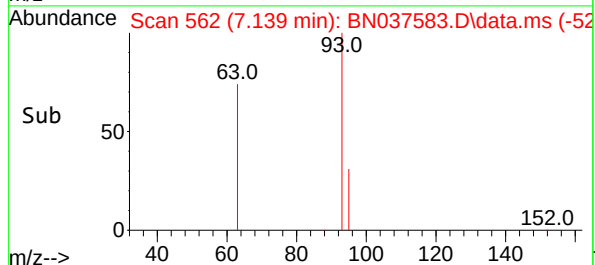
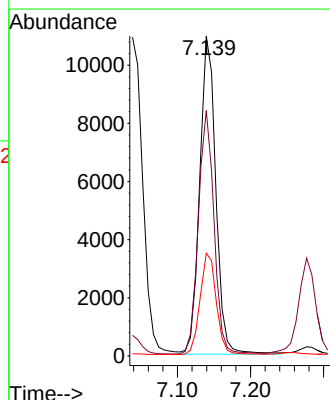
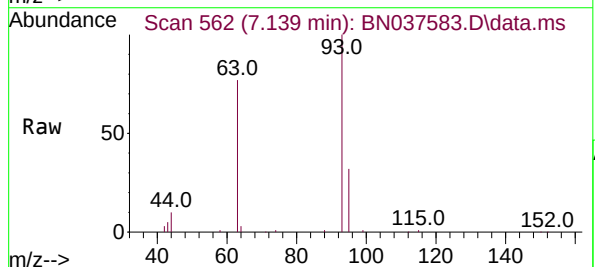
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BNA_N
ClientSampleId :
SSTDICC3.2

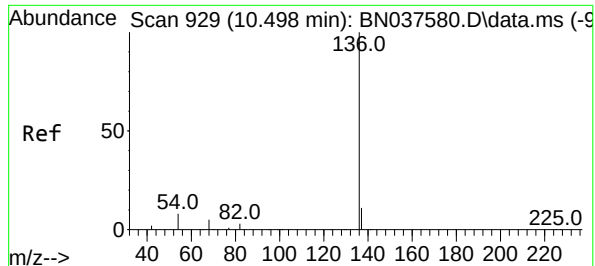
Tgt Ion: 99 Resp: 18546
Ion Ratio Lower Upper
99 100
42 22.2 18.5 27.7
71 36.1 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 3.280 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion: 93 Resp: 16734
Ion Ratio Lower Upper
93 100
63 74.4 58.0 87.0
95 32.0 24.9 37.3

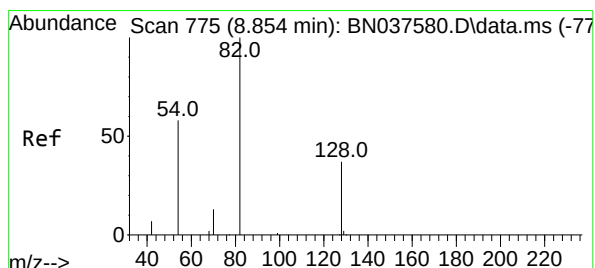
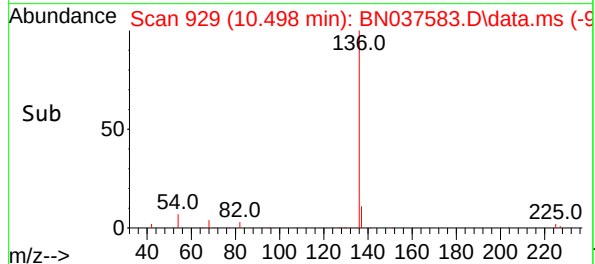
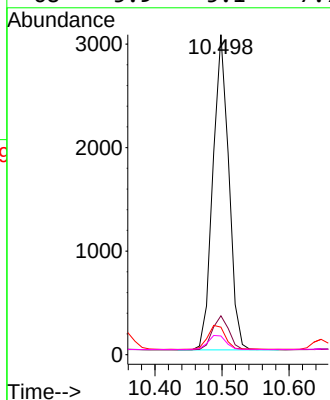
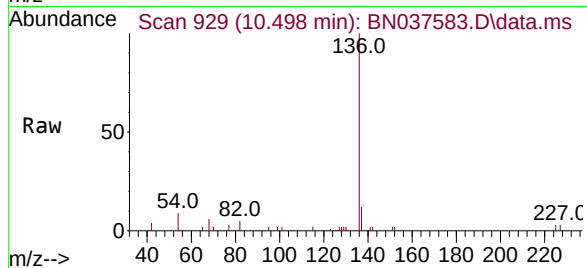




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

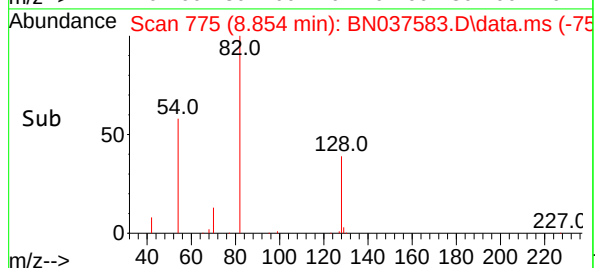
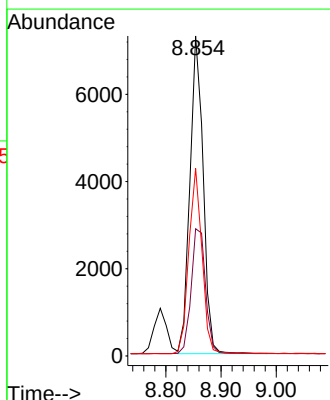
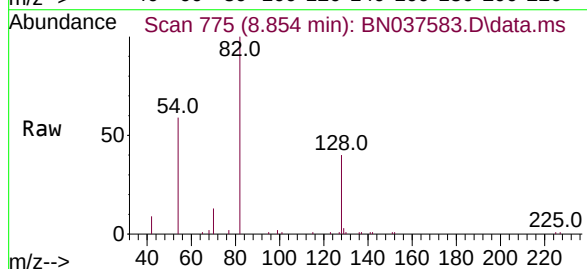
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

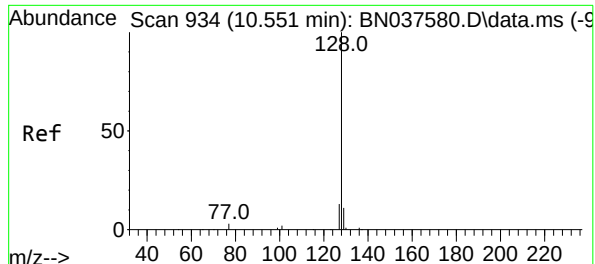
Tgt Ion:	136	Resp:	5019
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.5	14.3
54	8.6	7.3	10.9
68	5.9	5.1	7.7



#8
Nitrobenzene-d5
Concen: 3.422 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:	82	Resp:	12097
Ion	Ratio	Lower	Upper
82	100		
128	39.7	32.6	48.8
54	58.6	48.9	73.3

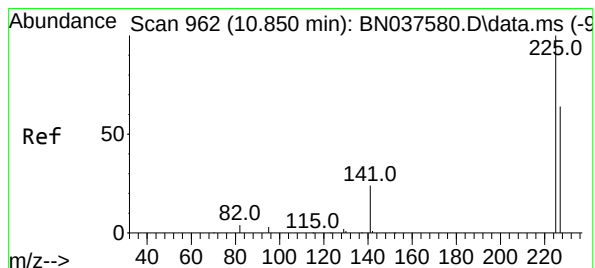
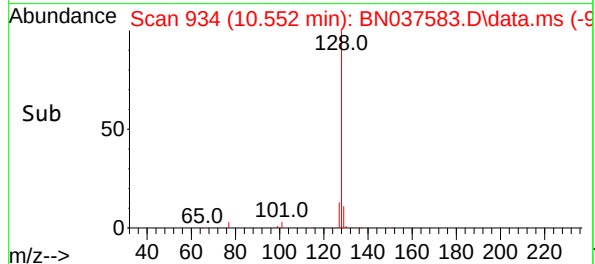
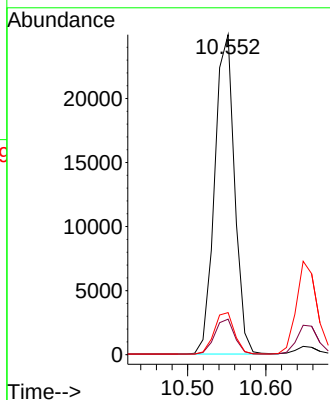
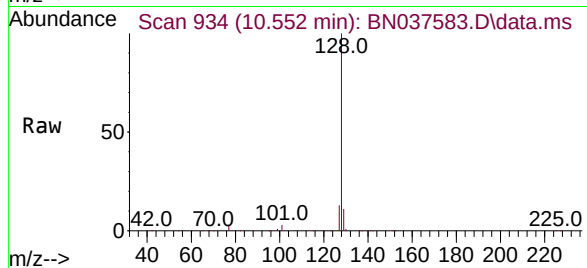




#9
Naphthalene
Concen: 3.292 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

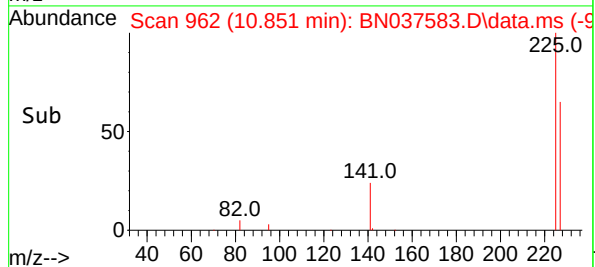
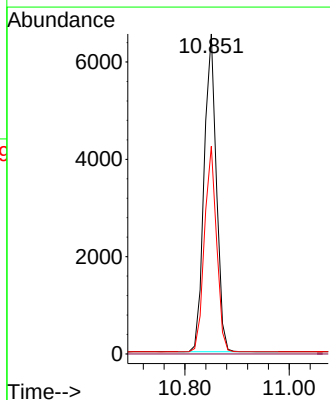
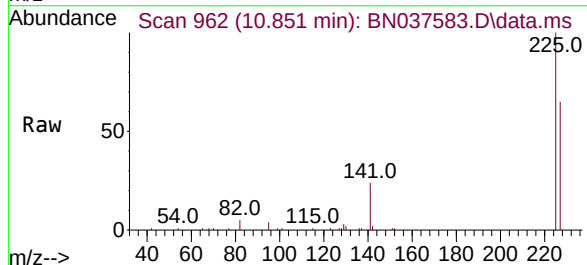
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

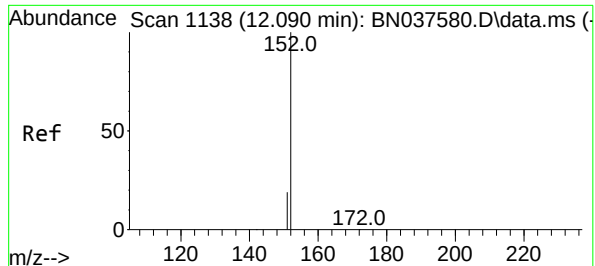
Tgt Ion	128	129	127
Resp:	43991		
Ion Ratio	100	11.1	13.2
Lower		9.8	11.5
Upper		14.6	17.3



#10
Hexachlorobutadiene
Concen: 3.248 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion	225	223	227
Resp:	10602		
Ion Ratio	100	0.0	64.0
Lower		0.0	50.8
Upper		0.0	76.2

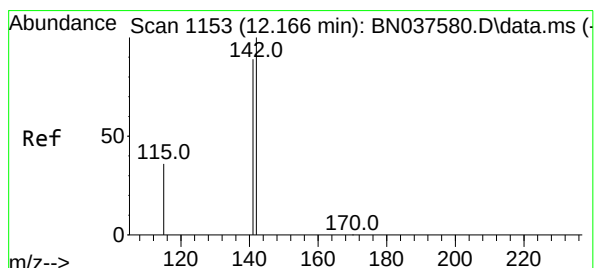
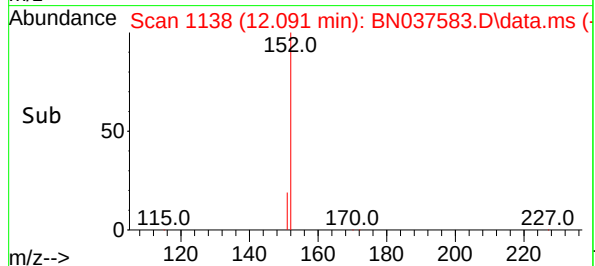
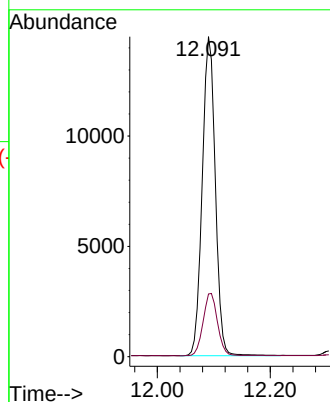
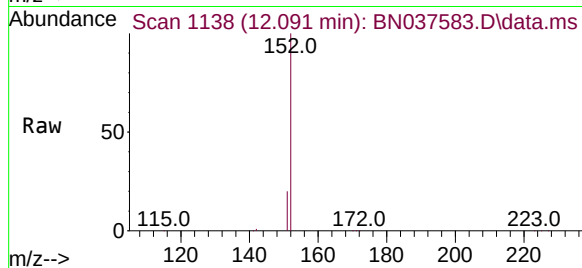




#11
2-Methylnaphthalene-d10
Concen: 3.402 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

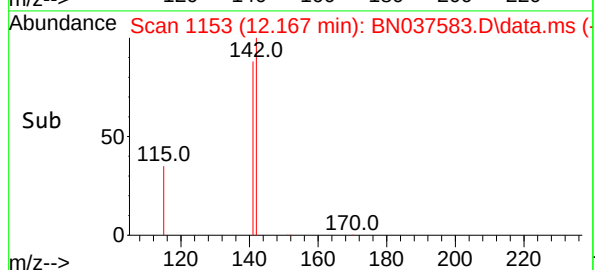
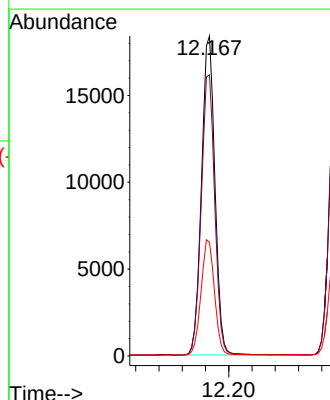
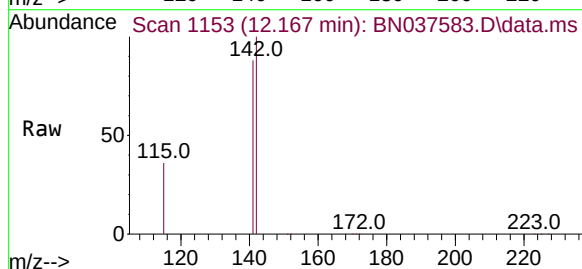
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

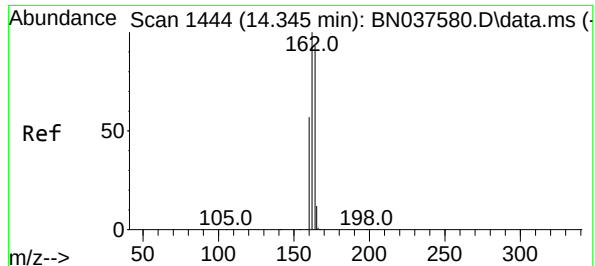
Tgt Ion:152 Resp: 23211
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



#12
2-Methylnaphthalene
Concen: 3.501 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:142 Resp: 29337
Ion Ratio Lower Upper
142 100
141 87.9 71.4 107.0
115 35.5 30.2 45.4

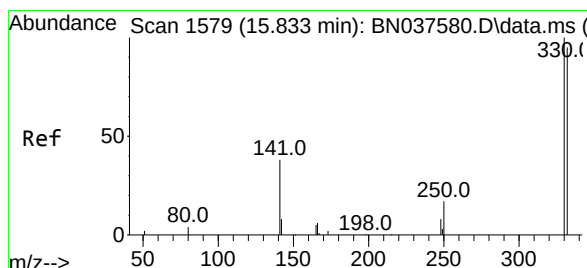
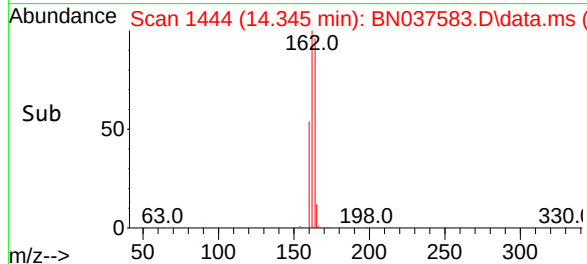
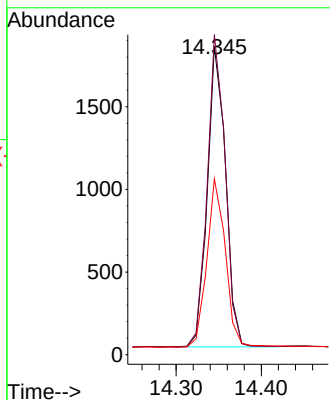
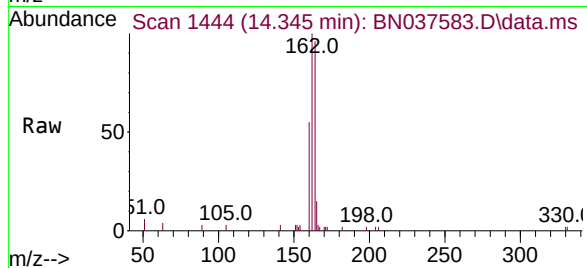




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

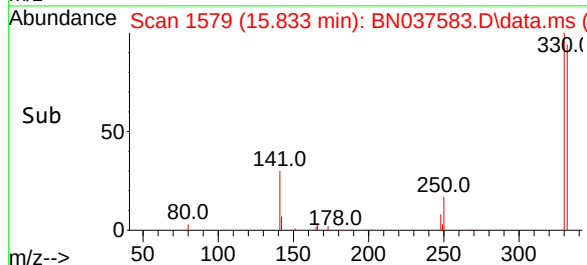
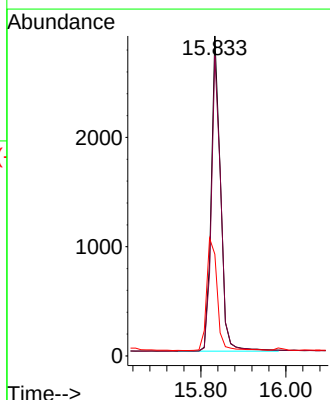
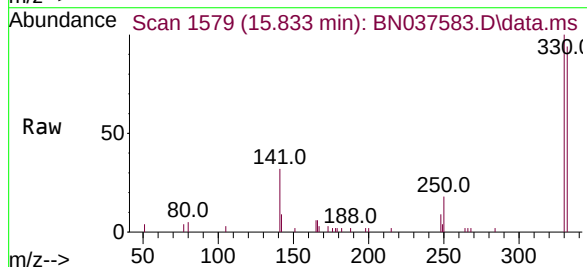
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

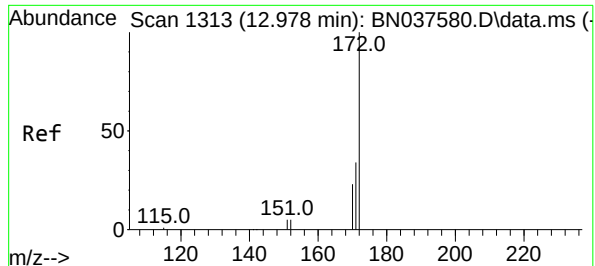
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.8	85.5	128.3
160	57.0	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 3.710 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.4	116.0
141	40.3	30.9	46.3





#15

2-Fluorobiphenyl

Concen: 3.308 ng

RT: 12.973 min Scan# 1313

Delta R.T. -0.005 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

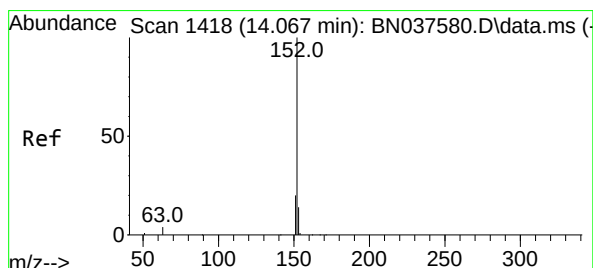
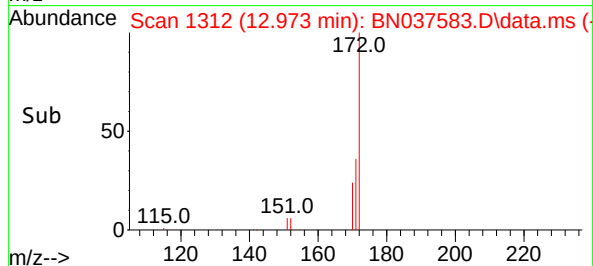
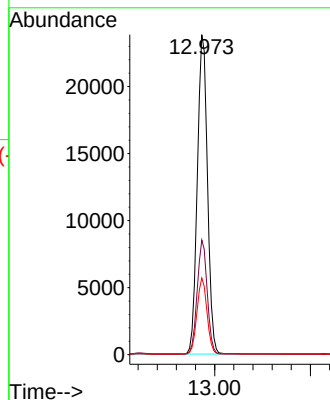
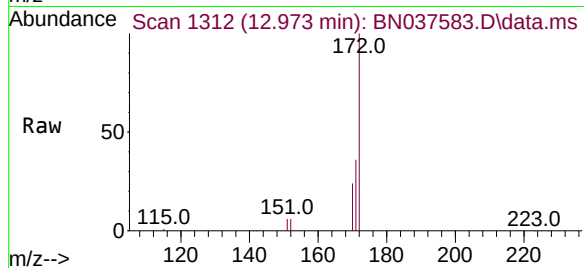
Tgt Ion:172 Resp: 51634

Ion Ratio Lower Upper

172 100

171 35.9 28.2 42.4

170 24.0 19.2 28.8



#16

Acenaphthylene

Concen: 3.316 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

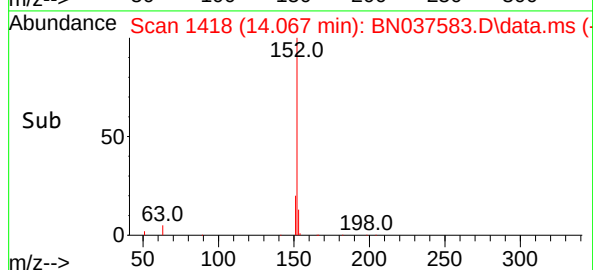
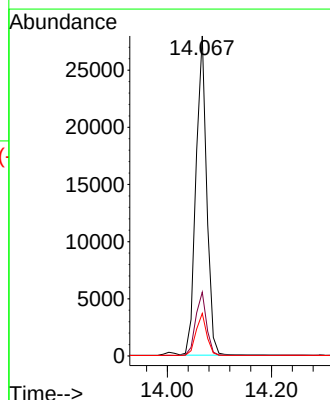
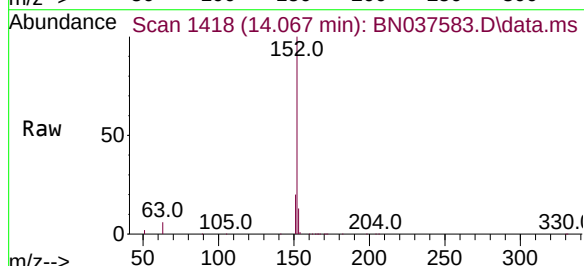
Tgt Ion:152 Resp: 40122

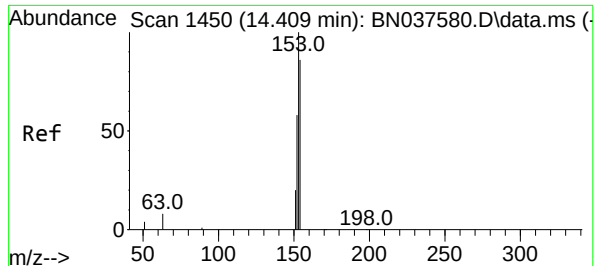
Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

153 13.0 10.7 16.1

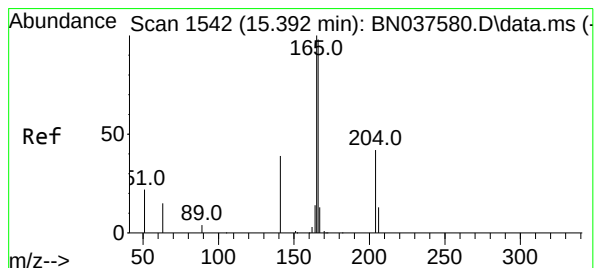
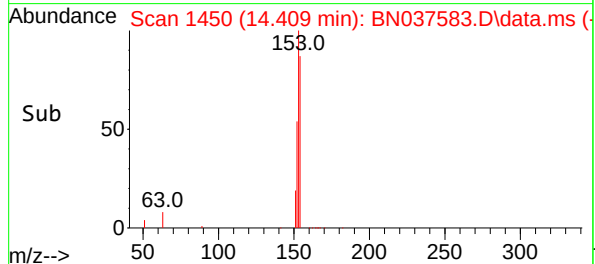
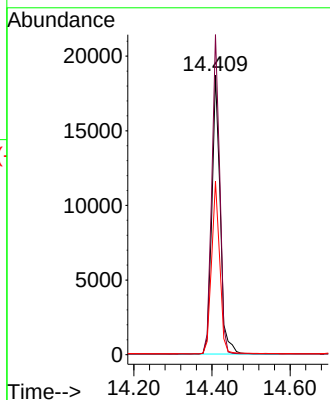
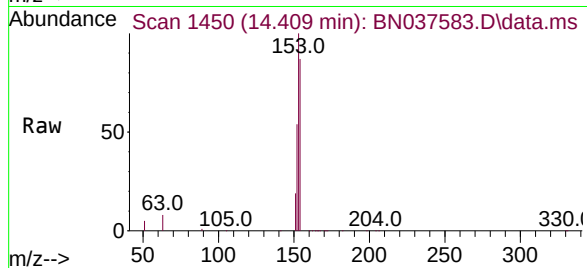




#17
Acenaphthene
Concen: 3.375 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

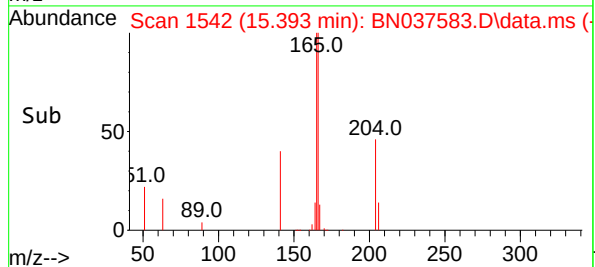
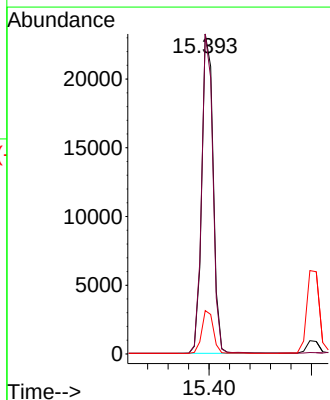
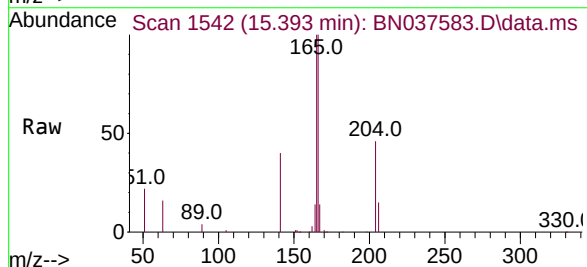
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

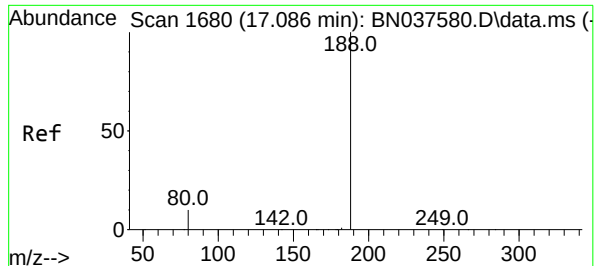
Tgt Ion	154	Resp:	27774
Ion	Ratio	Lower	Upper
154	100		
153	109.4	90.6	135.8
152	60.7	54.9	82.3



#18
Fluorene
Concen: 3.396 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion	166	Resp:	36565
Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.9	118.3
167	13.4	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

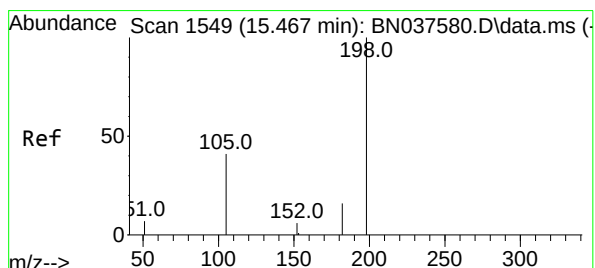
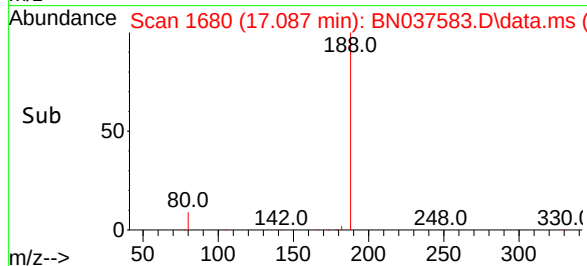
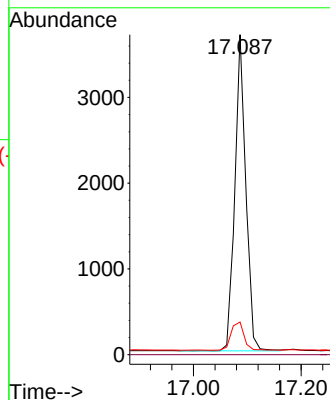
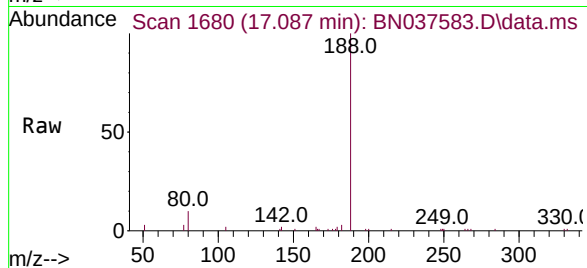
Tgt Ion:188 Resp: 5200

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 3.257 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

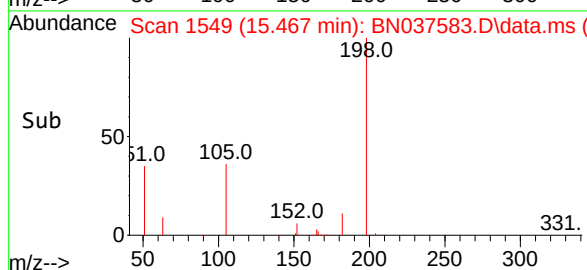
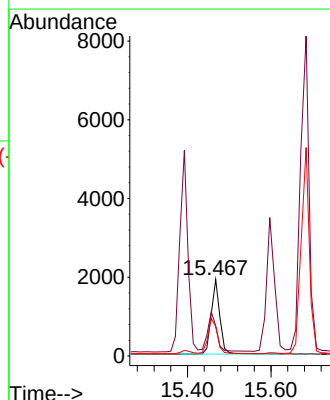
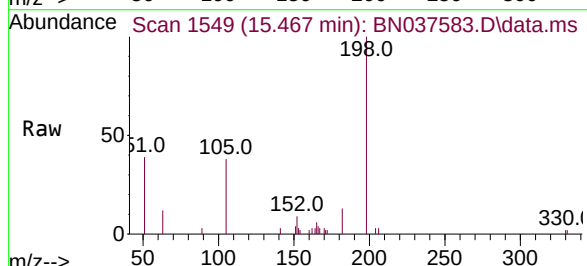
Tgt Ion:198 Resp: 2906

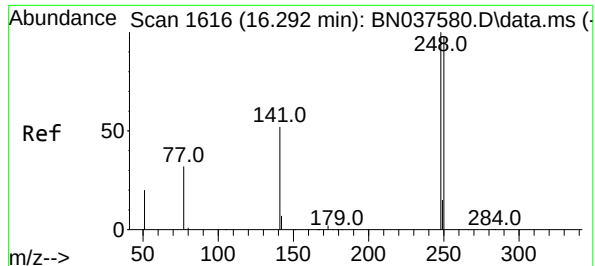
Ion Ratio Lower Upper

198 100

51 39.4 81.0 121.6#

105 38.3 52.5 78.7#





#21

4-Bromophenyl-phenylether

Concen: 3.444 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

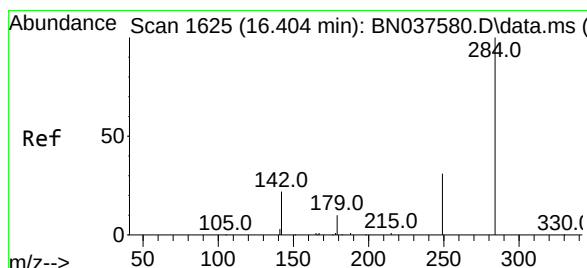
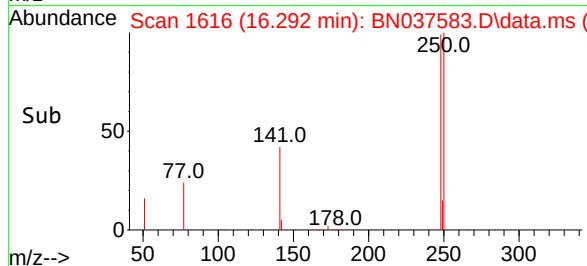
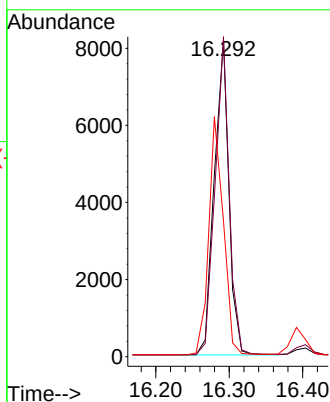
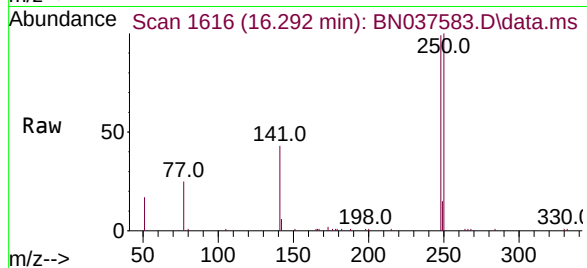
Tgt Ion:248 Resp: 11254

Ion Ratio Lower Upper

248 100

250 101.0 78.6 118.0

141 42.9 43.7 65.5#



#22

Hexachlorobenzene

Concen: 3.183 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

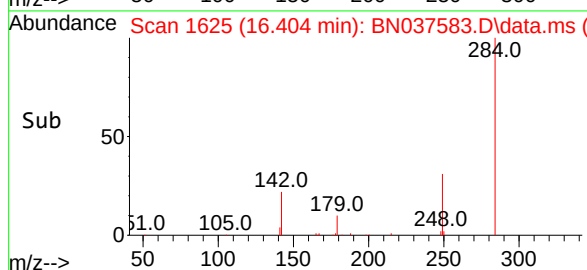
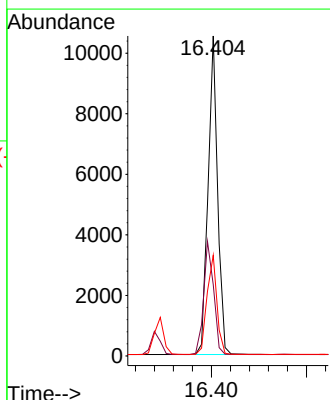
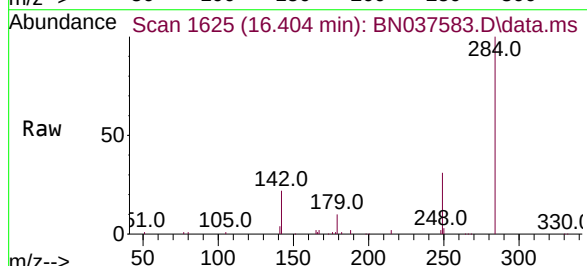
Tgt Ion:284 Resp: 14747

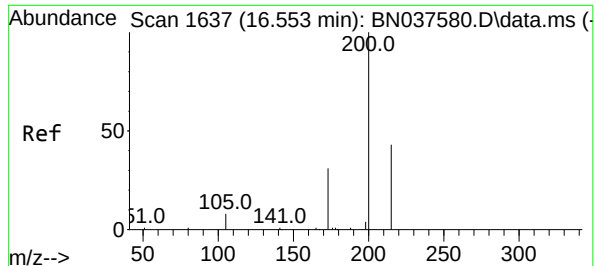
Ion Ratio Lower Upper

284 100

142 37.0 29.8 44.6

249 32.6 26.0 39.0





#23

Atrazine

Concen: 3.967 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

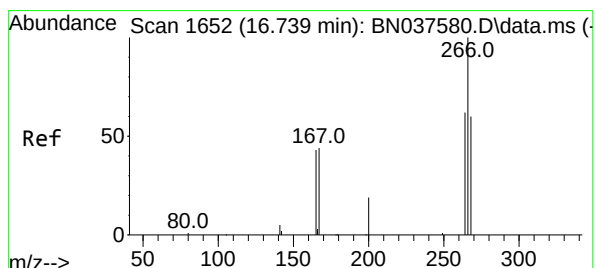
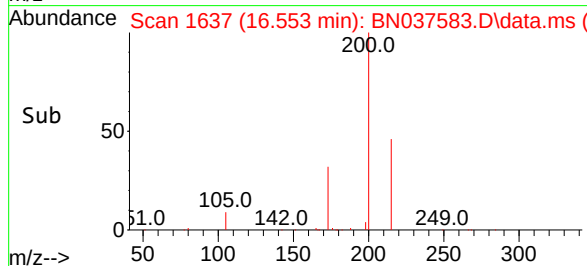
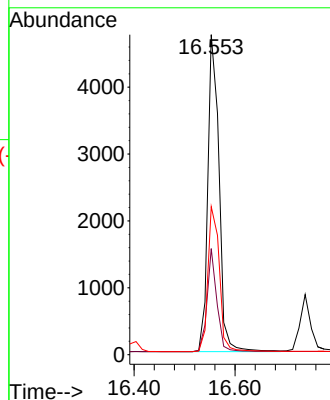
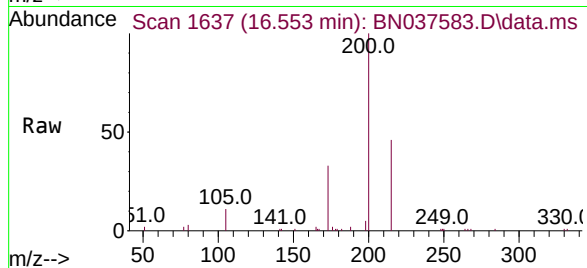
Tgt Ion:200 Resp: 7330

Ion Ratio Lower Upper

200 100

173 33.1 31.0 46.4

215 46.2 39.4 59.0



#24

Pentachlorophenol

Concen: 3.887 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

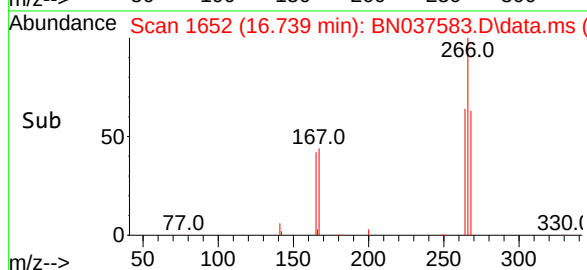
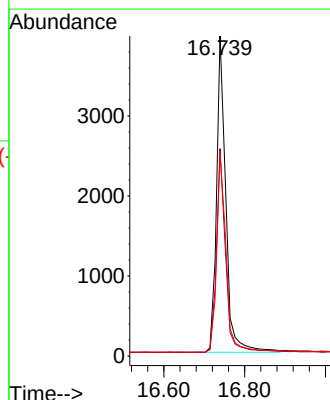
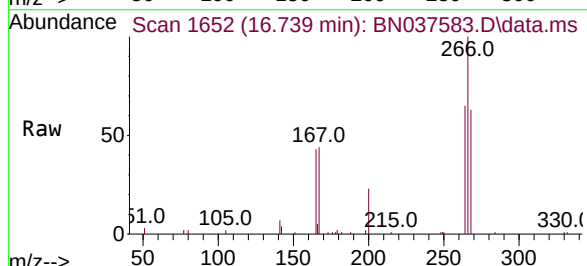
Tgt Ion:266 Resp: 6325

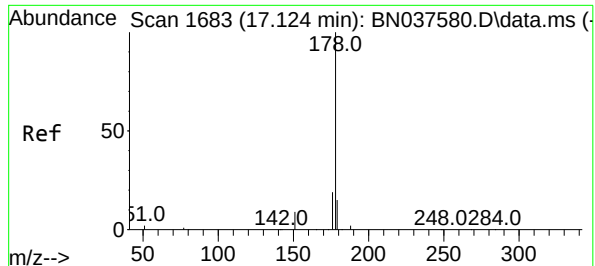
Ion Ratio Lower Upper

266 100

264 63.4 49.6 74.4

268 64.3 49.2 73.8

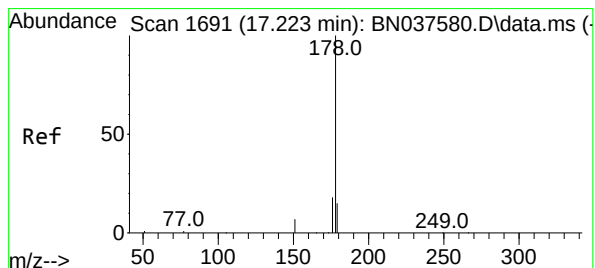
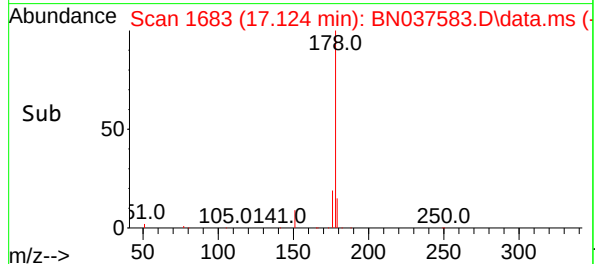
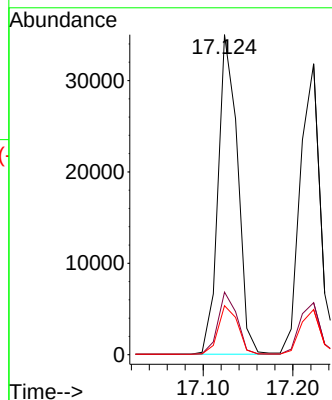
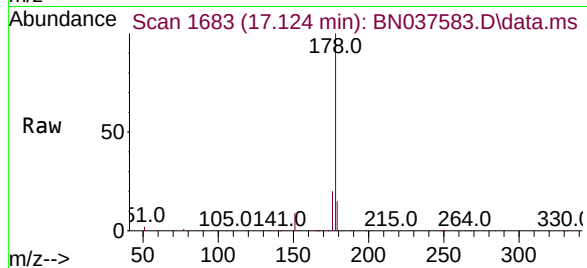




#25
Phenanthrene
Concen: 3.339 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

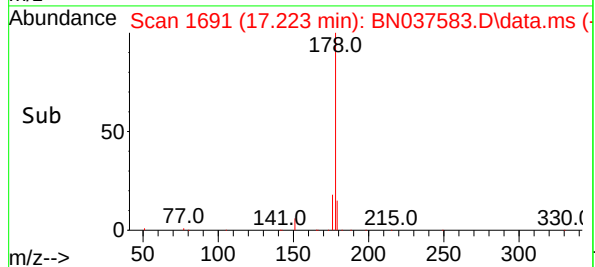
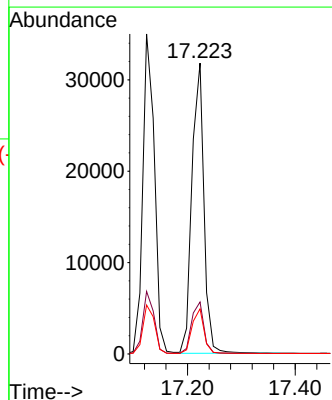
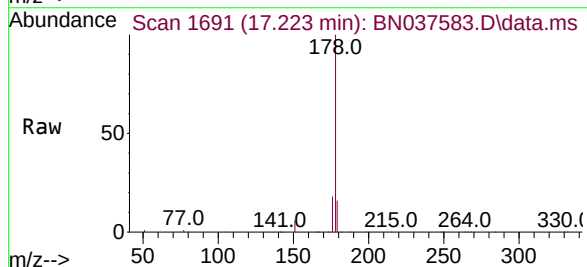
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

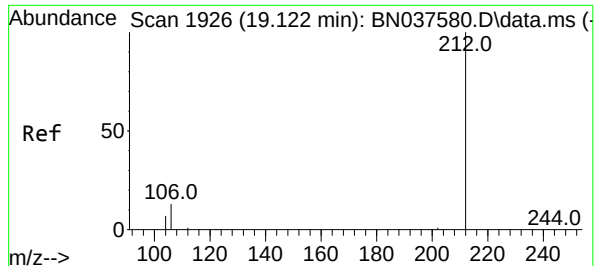
Tgt Ion:178 Resp: 52784
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.3 12.3 18.5



#26
Anthracene
Concen: 3.525 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:178 Resp: 49333
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.376 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

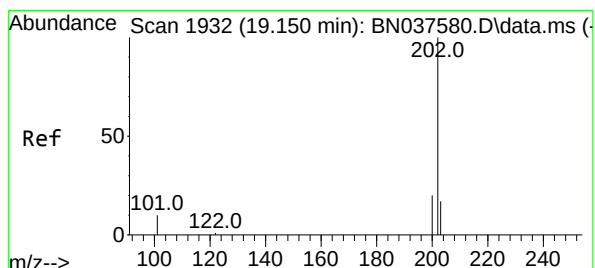
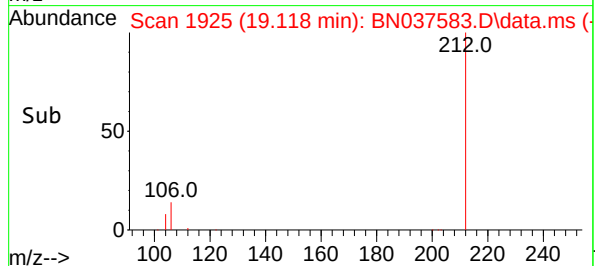
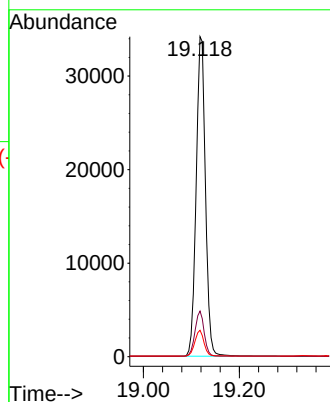
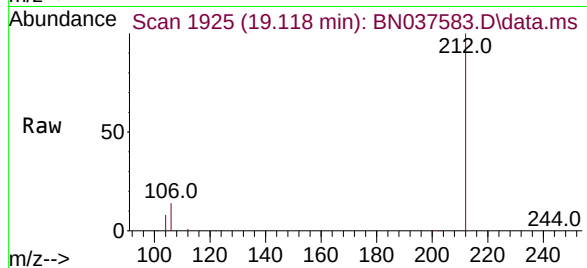
Tgt Ion:212 Resp: 46178

Ion Ratio Lower Upper

212 100

106 13.9 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 3.511 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

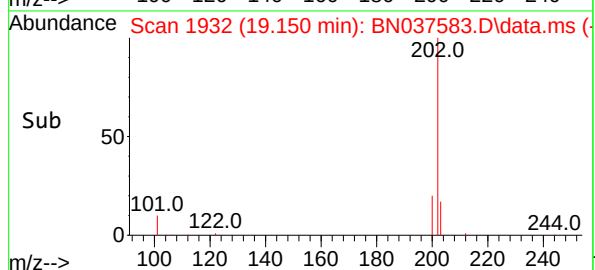
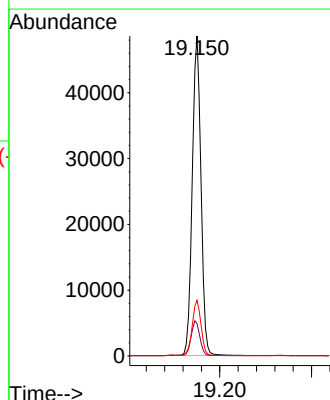
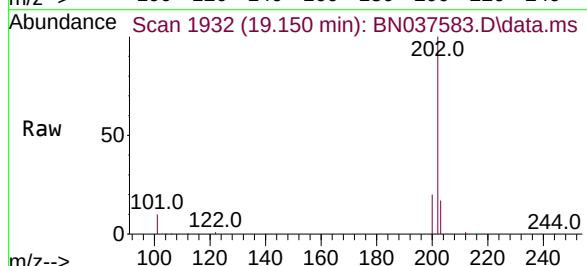
Tgt Ion:202 Resp: 63765

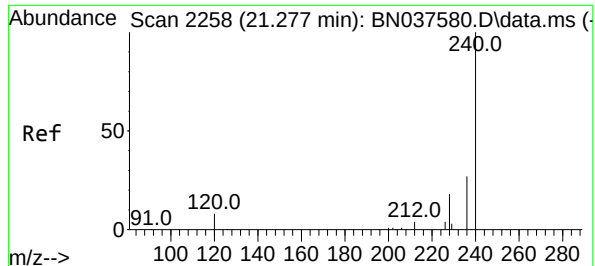
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

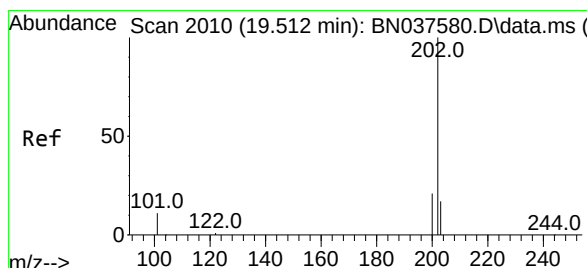
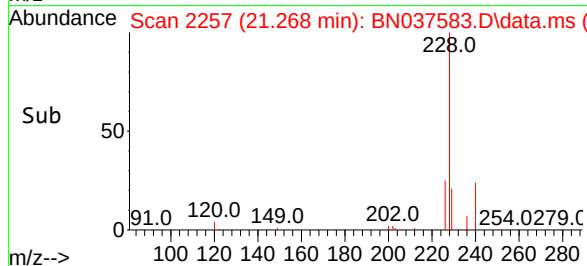
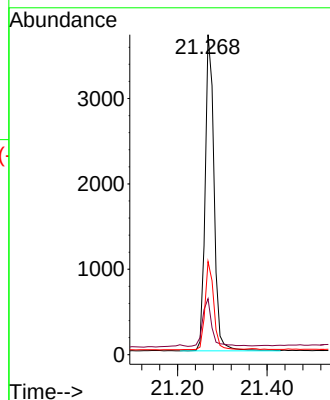
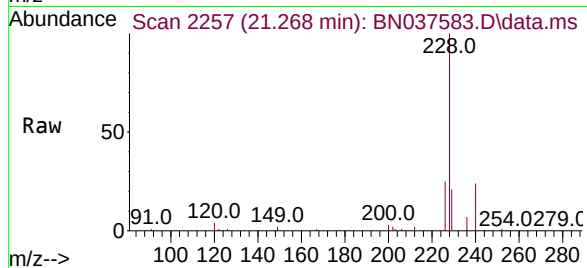
Tgt Ion:240 Resp: 5116

Ion Ratio Lower Upper

240 100

120 17.5 8.9 13.3#

236 29.1 22.6 33.8



#30

Pyrene

Concen: 3.254 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

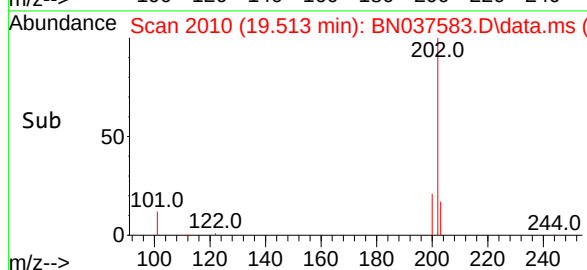
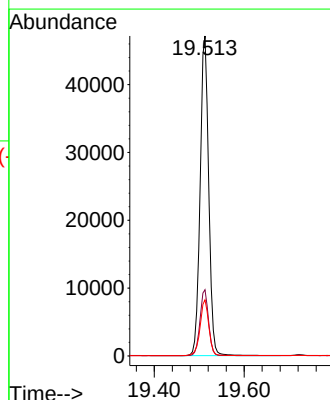
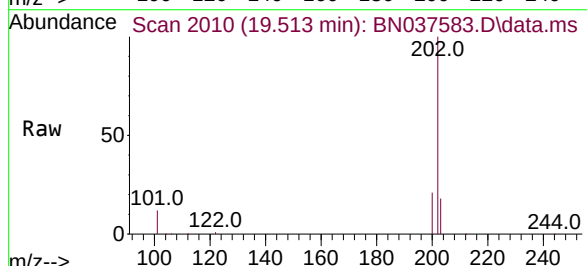
Tgt Ion:202 Resp: 62227

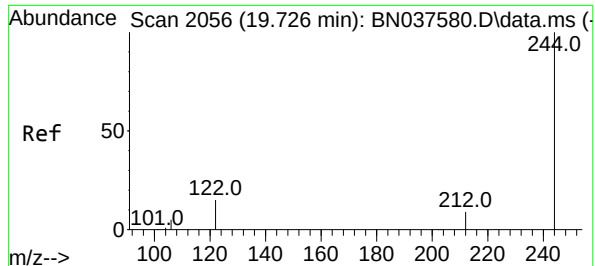
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.8 14.3 21.5

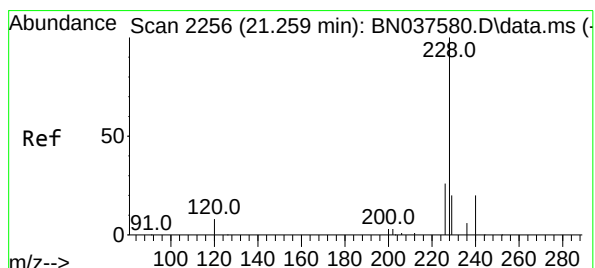
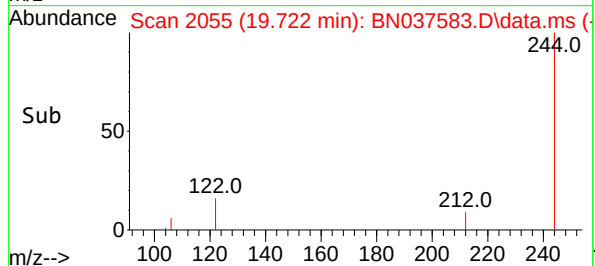
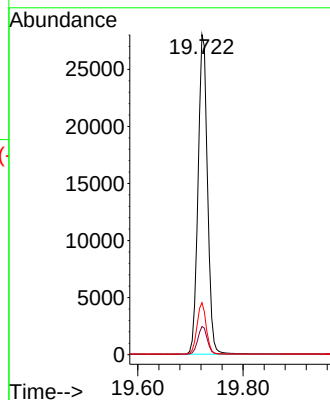
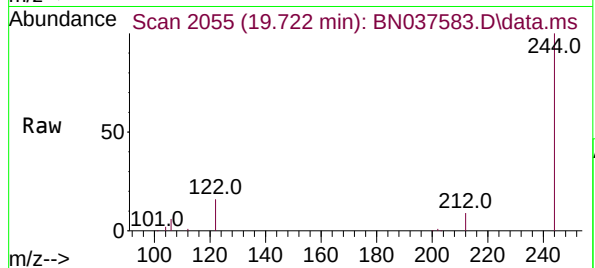




#31
Terphenyl-d14
Concen: 3.315 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

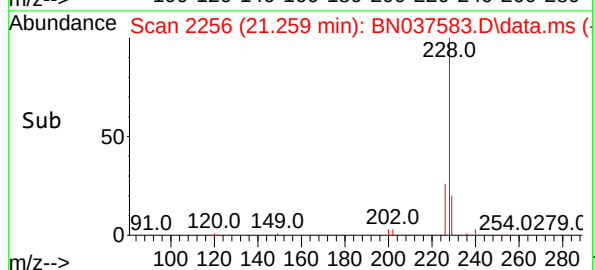
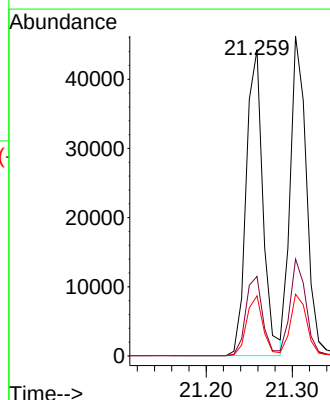
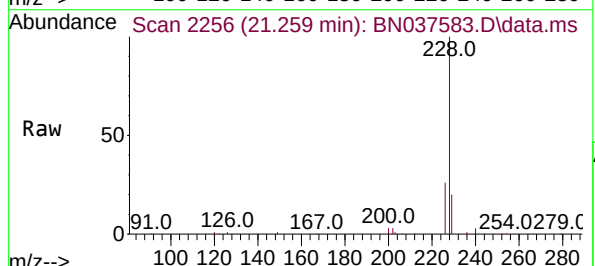
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

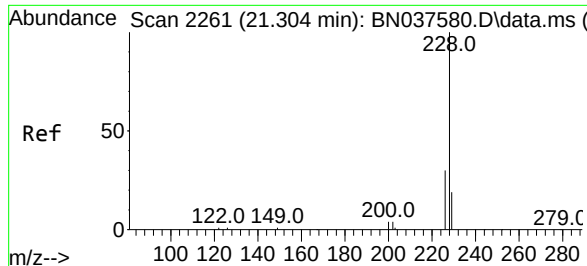
Tgt Ion:244 Resp: 34892
Ion Ratio Lower Upper
244 100
212 8.8 8.2 12.2
122 16.2 13.2 19.8



#32
Benzo(a)anthracene
Concen: 3.491 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

Tgt Ion:228 Resp: 59663
Ion Ratio Lower Upper
228 100
226 26.0 21.5 32.3
229 19.6 16.5 24.7





#33

Chrysene

Concen: 3.199 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

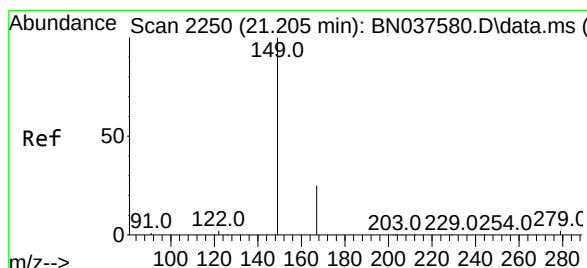
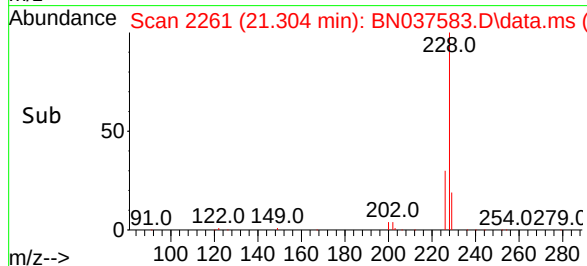
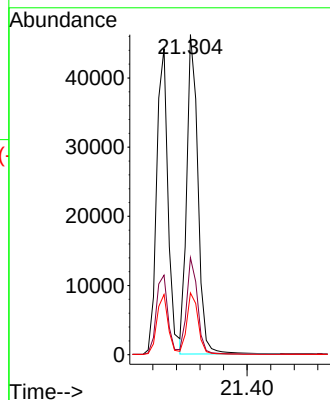
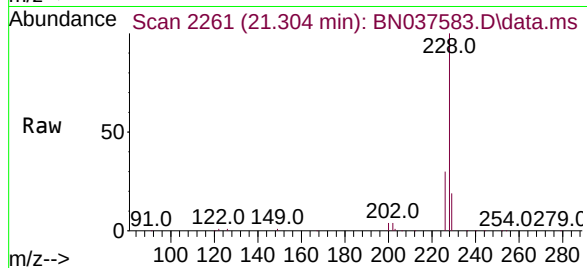
Tgt Ion:228 Resp: 60925

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.440 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

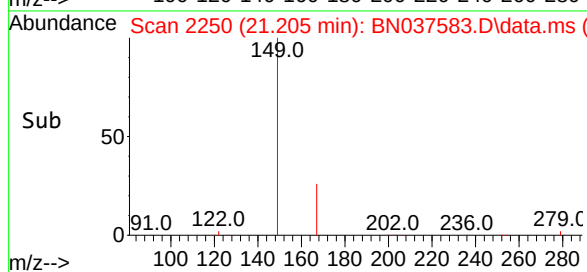
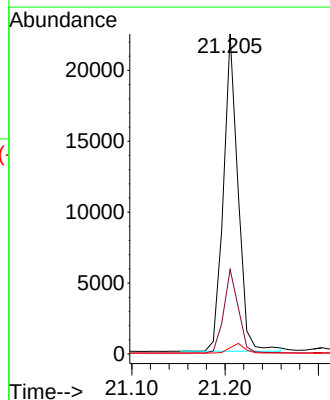
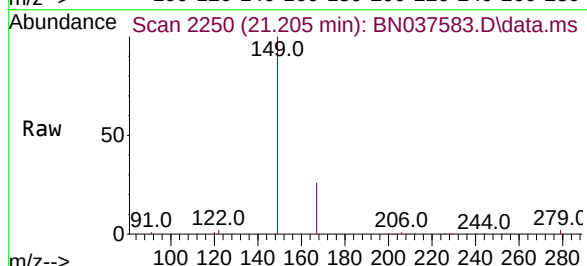
Tgt Ion:149 Resp: 24265

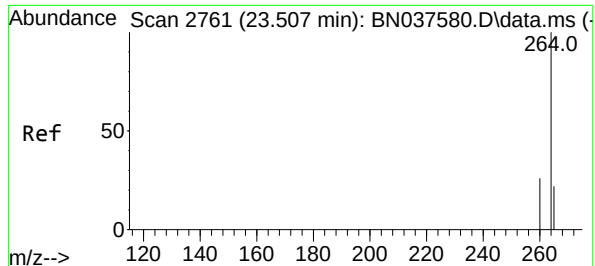
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

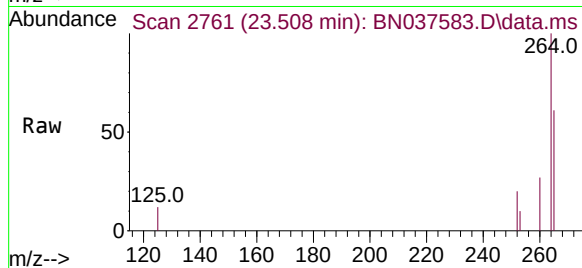
Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



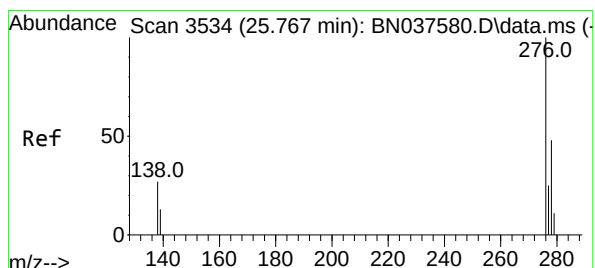
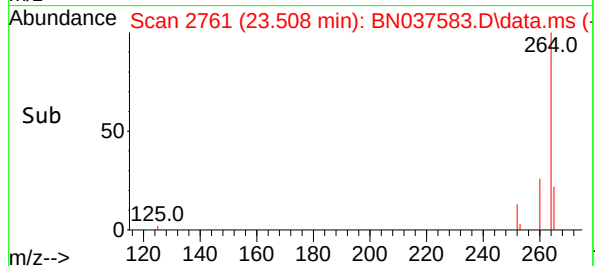
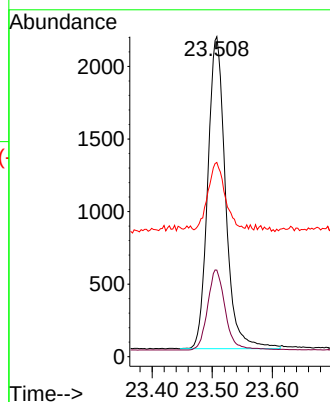
Tgt Ion:264 Resp: 4411

Ion Ratio Lower Upper

264 100

260 27.1 21.6 32.4

265 60.7 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.576 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

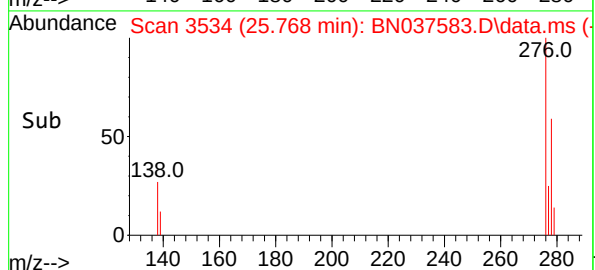
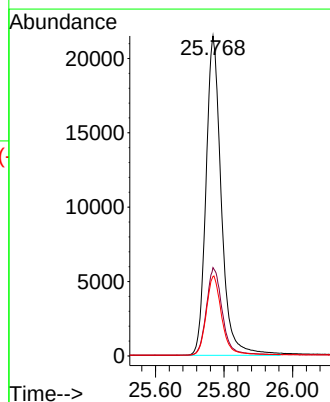
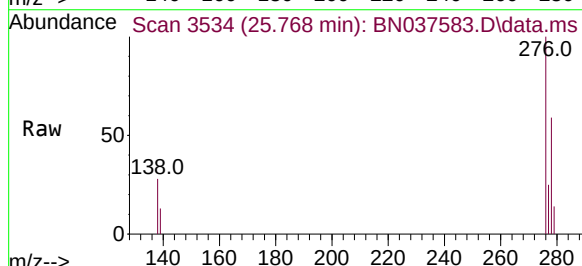
Tgt Ion:276 Resp: 66459

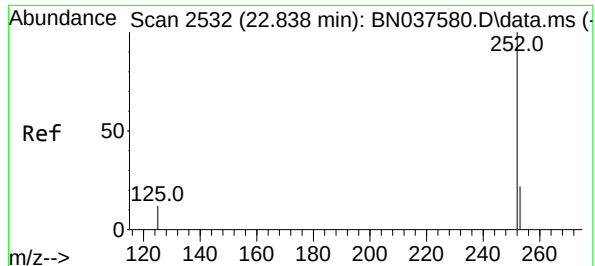
Ion Ratio Lower Upper

276 100

138 28.5 23.3 34.9

277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.535 ng

RT: 22.835 min Scan# 2532

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

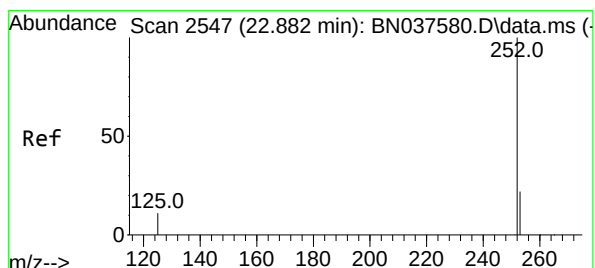
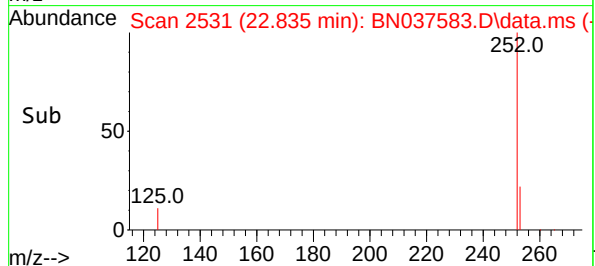
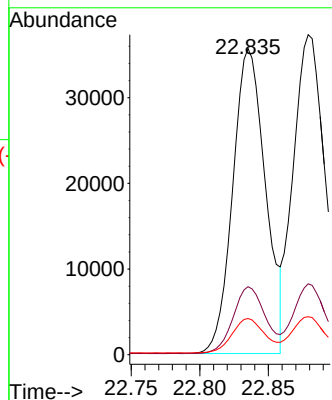
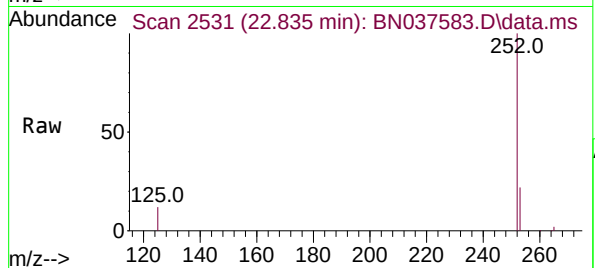
Tgt Ion:252 Resp: 59086

Ion Ratio Lower Upper

252 100

253 22.2 20.0 30.0

125 11.8 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 3.363 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

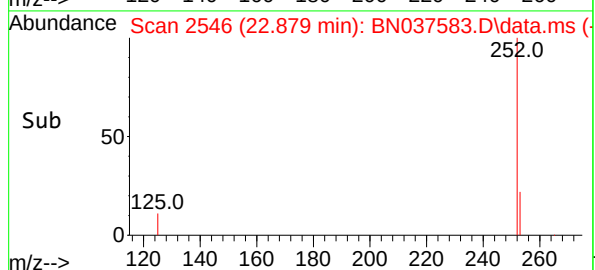
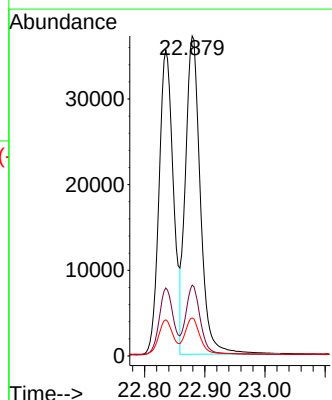
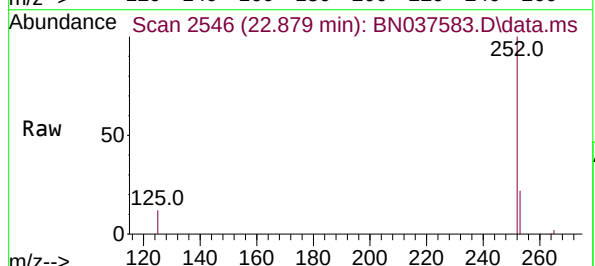
Tgt Ion:252 Resp: 63422

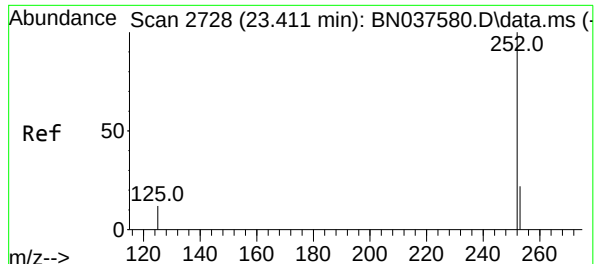
Ion Ratio Lower Upper

252 100

253 22.2 19.9 29.9

125 11.8 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 3.518 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

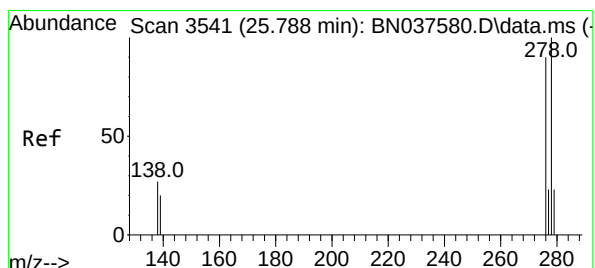
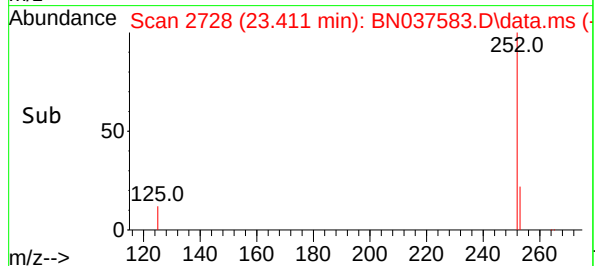
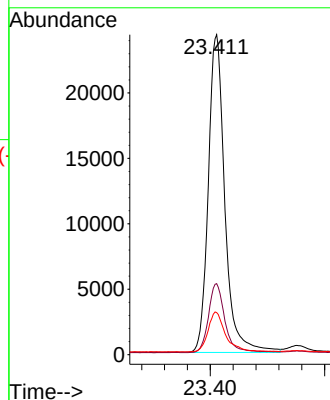
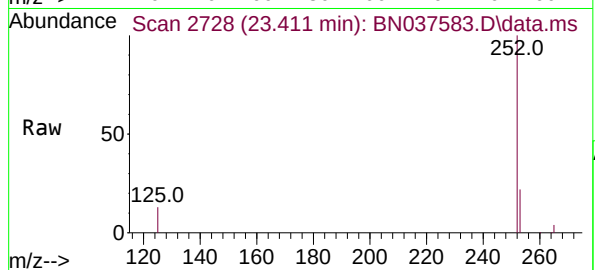
Tgt Ion:252 Resp: 48767

Ion Ratio Lower Upper

252 100

253 22.2 21.6 32.4

125 13.1 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.709 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.006 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

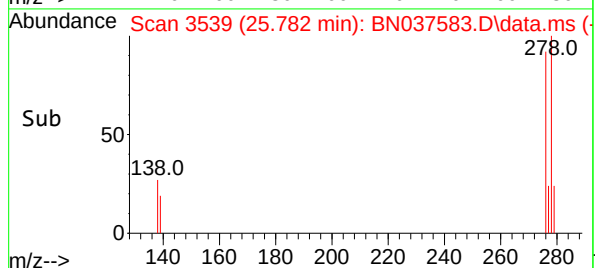
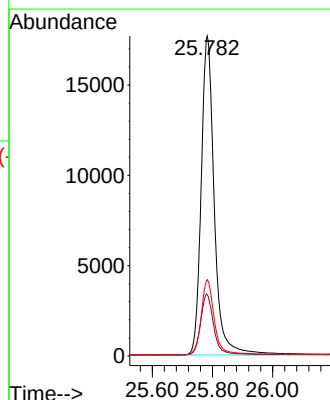
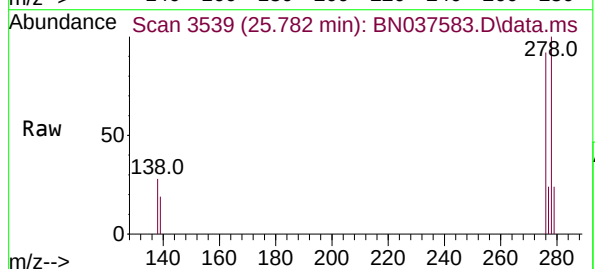
Tgt Ion:278 Resp: 53486

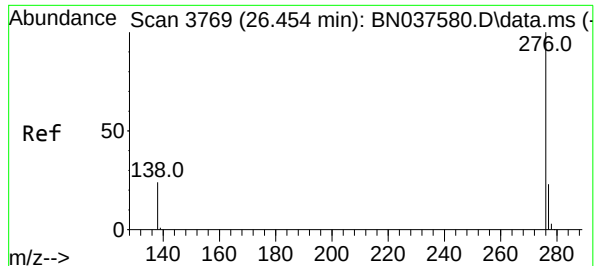
Ion Ratio Lower Upper

278 100

139 19.0 18.3 27.5

279 23.9 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 3.558 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037583.D

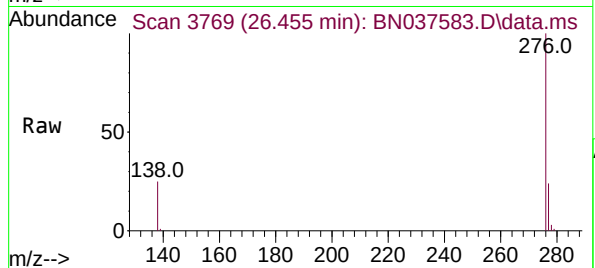
Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



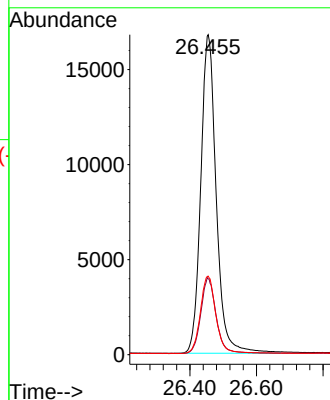
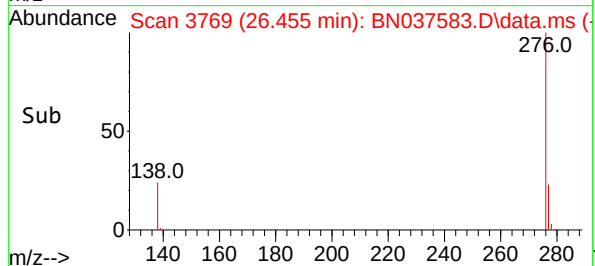
Tgt Ion:276 Resp: 54068

Ion Ratio Lower Upper

276 100

277 23.7 21.0 31.4

138 24.6 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037584.D
 Acq On : 12 Aug 2025 20:05
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Aug 13 04:50:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 04:46:02 2025
 Response via : Initial Calibration

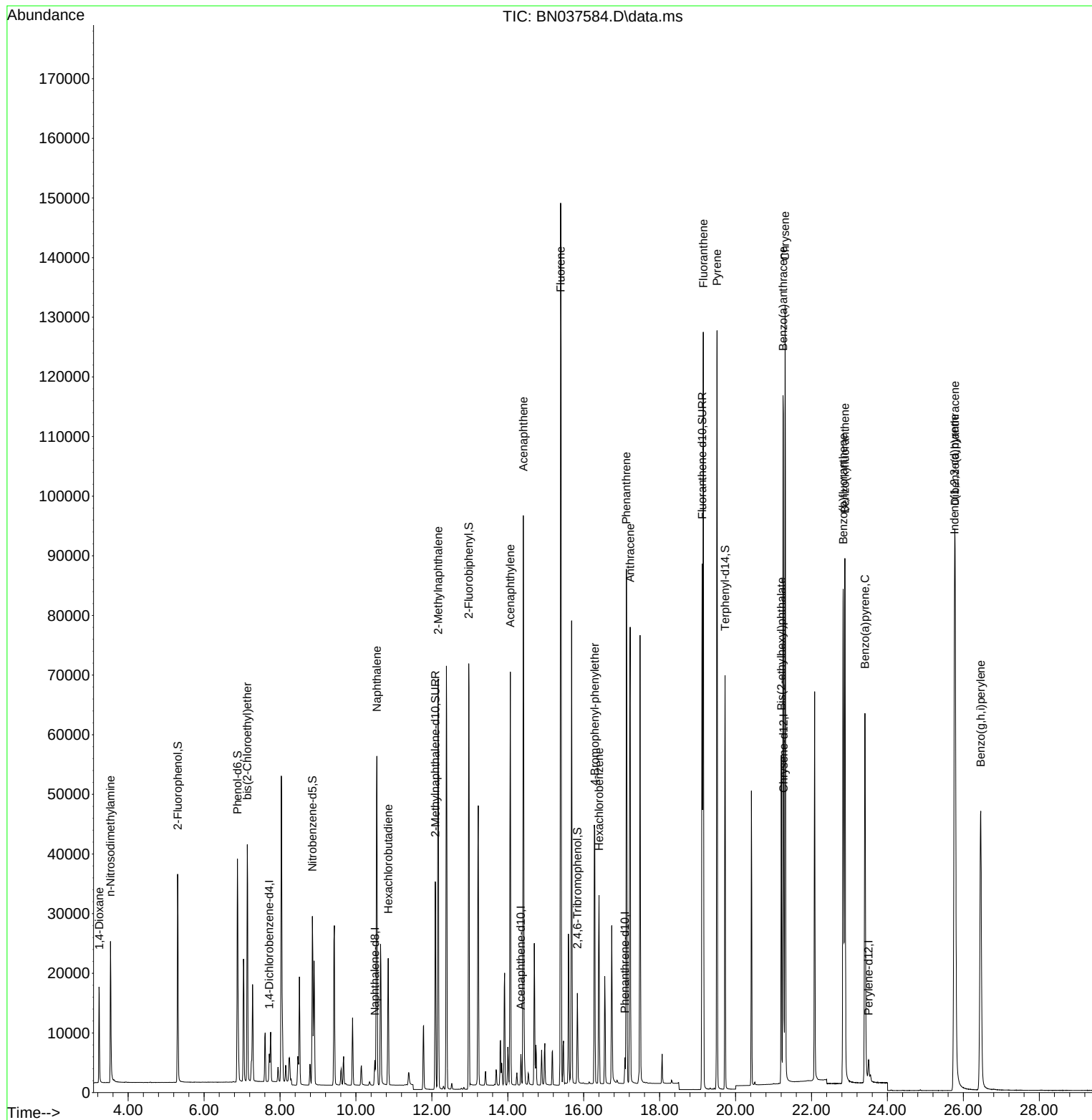
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2149	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5152	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2803	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5318	0.400	ng	0.00
29) Chrysene-d12	21.268	240	5600	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	4653	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	26238	5.386	ng	0.00
5) Phenol-d6	6.879	99	32269	5.504	ng	0.00
8) Nitrobenzene-d5	8.854	82	20990	5.784	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	45385	6.480	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	8185	6.672	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	85489	5.273	ng	0.00
27) Fluoranthene-d10	19.118	212	94332	6.743	ng	0.00
31) Terphenyl-d14	19.722	244	63100	5.477	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	9359	4.552	ng	Qvalue 99
3) n-Nitrosodimethylamine	3.535	42	13640	5.192	ng	# 99
6) bis(2-Chloroethyl)ether	7.139	93	27456	5.197	ng	98
9) Naphthalene	10.551	128	72603	5.293	ng	97
10) Hexachlorobutadiene	10.850	225	17071	5.094	ng	# 100
12) 2-Methylnaphthalene	12.167	142	48917	5.686	ng	98
16) Acenaphthylene	14.067	152	69369	5.521	ng	99
17) Acenaphthene	14.409	154	47237	5.527	ng	92
18) Fluorene	15.392	166	62012	5.546	ng	99
21) 4-Bromophenyl-phenylether	16.292	248	19417	5.809	ng	# 91
22) Hexachlorobenzene	16.404	284	24588	5.190	ng	100
25) Phenanthrene	17.124	178	89516	5.537	ng	100
26) Anthracene	17.223	178	85474	5.972	ng	100
28) Fluoranthene	19.150	202	109583	5.900	ng	100
30) Pyrene	19.513	202	108658	5.190	ng	100
32) Benzo(a)anthracene	21.250	228	104084	5.564	ng	98
33) Chrysene	21.304	228	108554	5.207	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	46994	6.087	ng	98
36) Indeno(1,2,3-cd)pyrene	25.768	276	116962	5.965	ng	99
37) Benzo(b)fluoranthene	22.835	252	106138	6.019	ng	# 91
38) Benzo(k)fluoranthene	22.879	252	110373	5.548	ng	# 90
39) Benzo(a)pyrene	23.408	252	87699	5.997	ng	# 87
40) Dibenzo(a,h)anthracene	25.782	278	94267	6.197	ng	92
41) Benzo(g,h,i)perylene	26.458	276	95537	5.960	ng	95

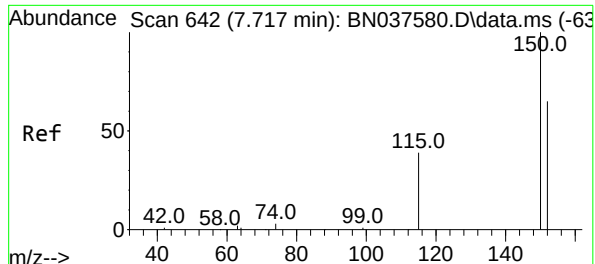
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037584.D
Acq On : 12 Aug 2025 20:05
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Aug 13 04:50:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 04:46:02 2025
Response via : Initial Calibration

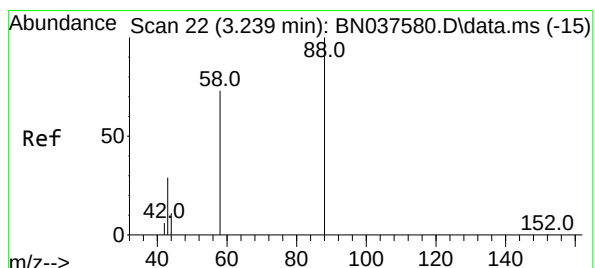
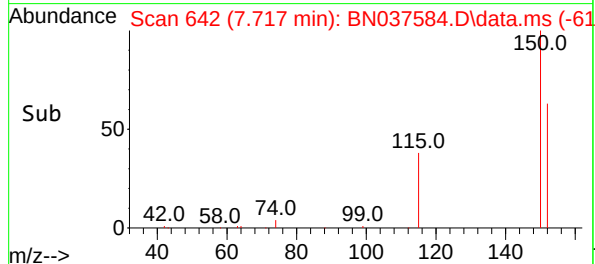
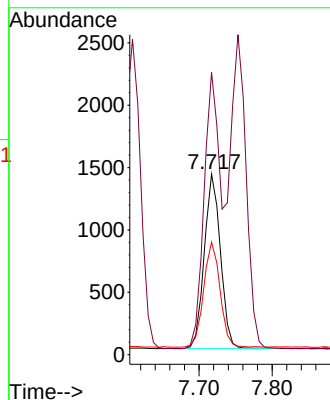
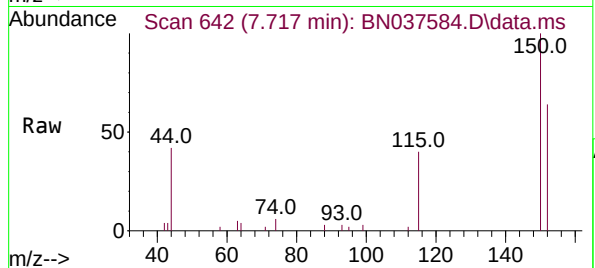




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

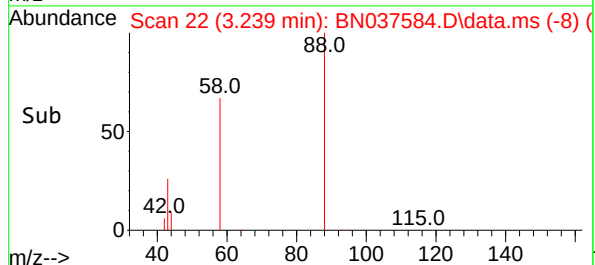
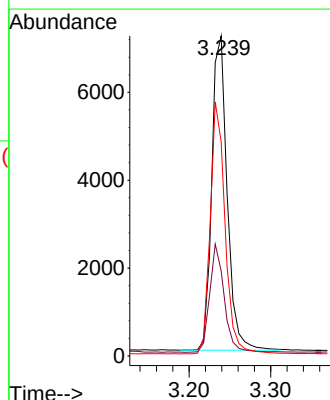
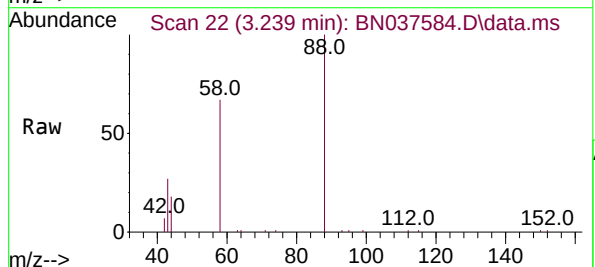
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

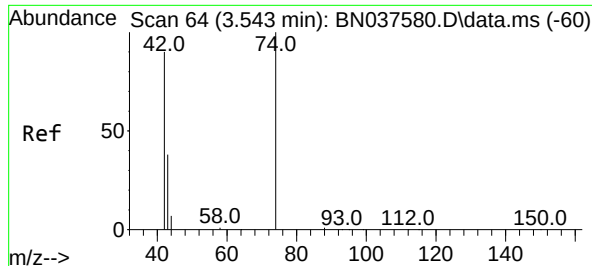
Tgt Ion:152 Resp: 2149
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.4
115 62.4 49.8 74.6



#2
1,4-Dioxane
Concen: 4.552 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion: 88 Resp: 9359
Ion Ratio Lower Upper
88 100
43 32.5 25.8 38.6
58 77.5 61.2 91.8

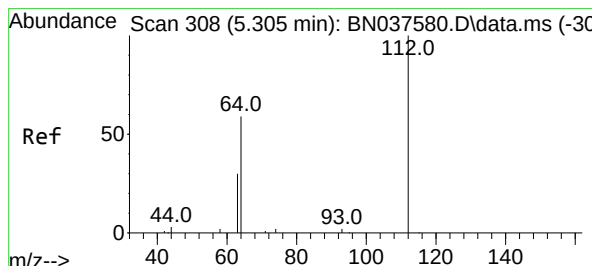
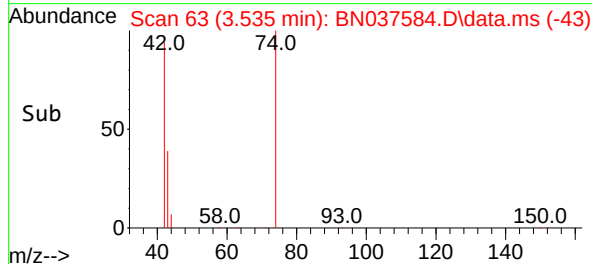
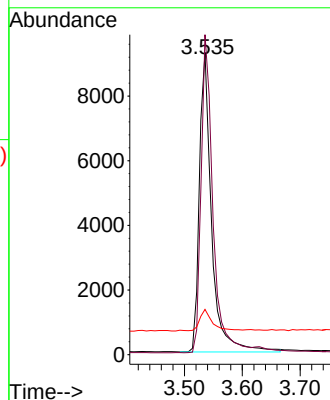
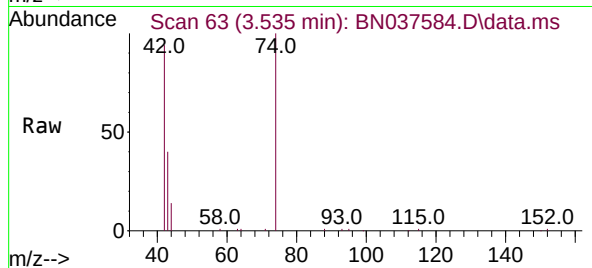




#3
n-Nitrosodimethylamine
Concen: 5.192 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

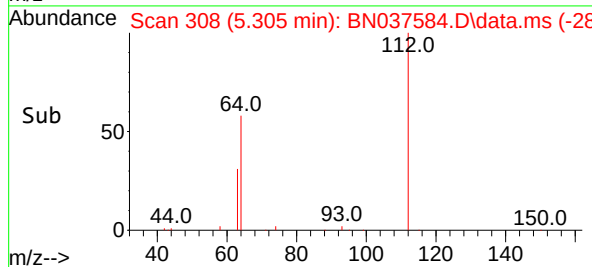
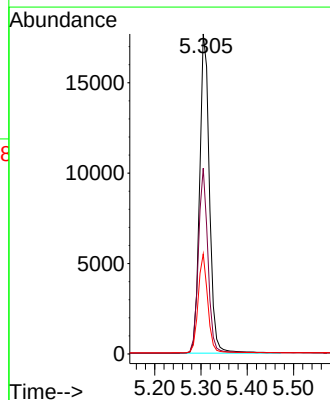
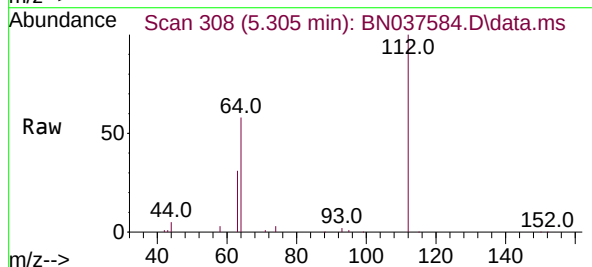
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

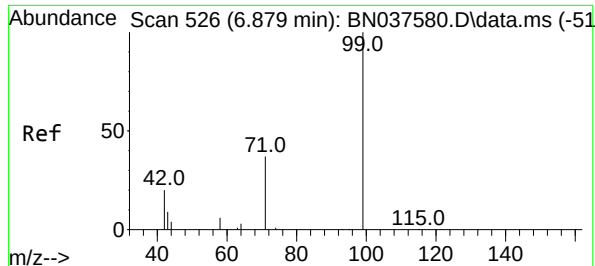
Tgt Ion: 42 Resp: 13640
Ion Ratio Lower Upper
42 100
74 102.7 82.0 123.0
44 7.6 7.9 11.9#



#4
2-Fluorophenol
Concen: 5.386 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion: 112 Resp: 26238
Ion Ratio Lower Upper
112 100
64 56.5 44.9 67.3
63 30.1 23.4 35.2

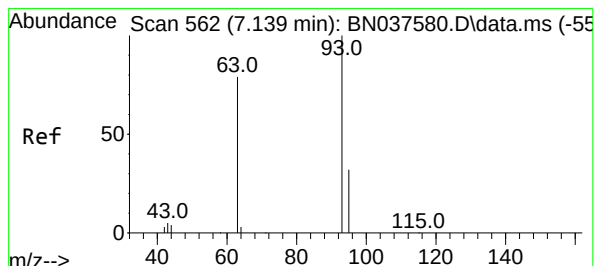
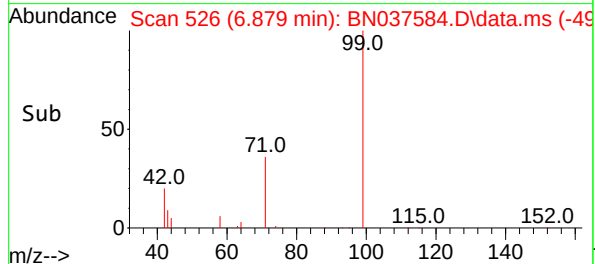
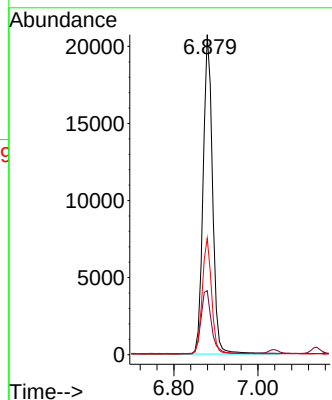
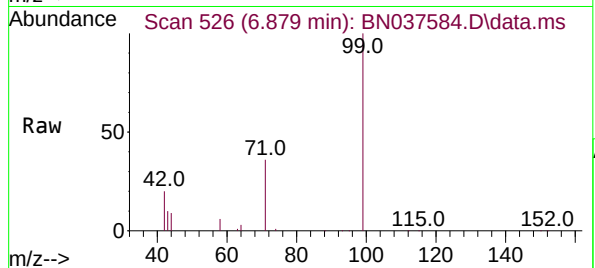




#5
Phenol-d6
Concen: 5.504 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

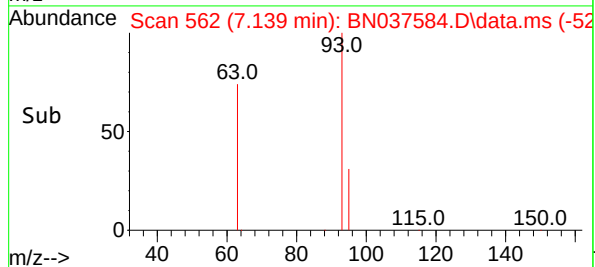
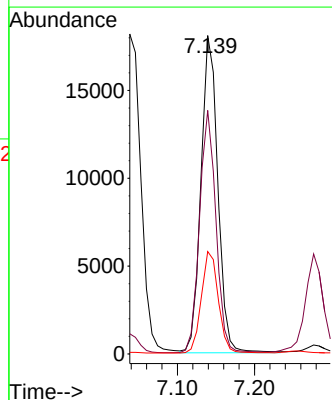
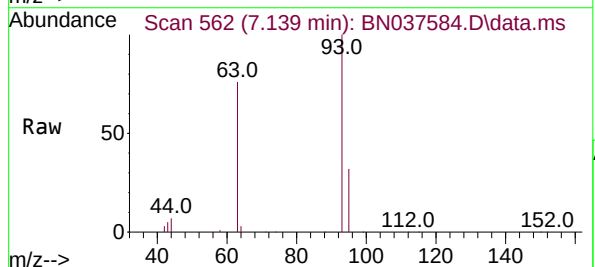
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

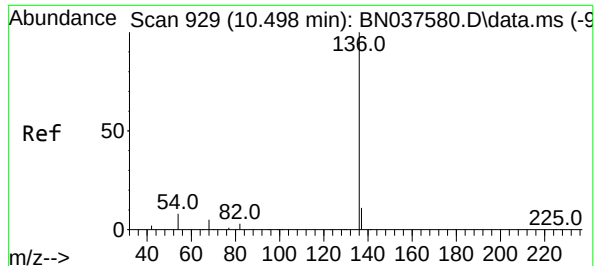
Tgt Ion: 99 Resp: 32269
Ion Ratio Lower Upper
99 100
42 21.8 18.5 27.7
71 35.9 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 5.197 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion: 93 Resp: 27456
Ion Ratio Lower Upper
93 100
63 74.3 58.0 87.0
95 32.1 24.9 37.3

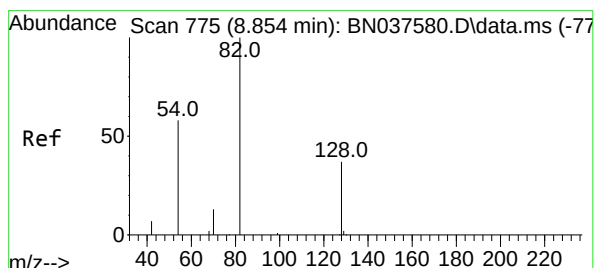
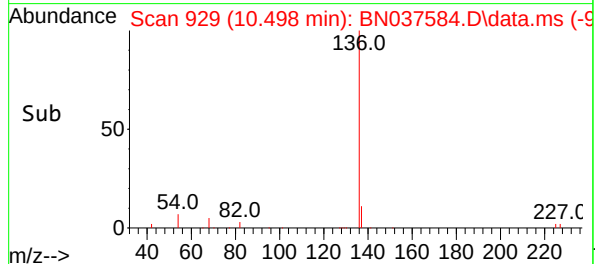
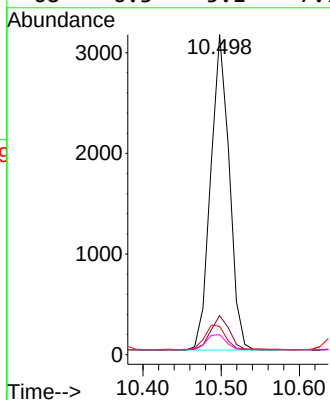
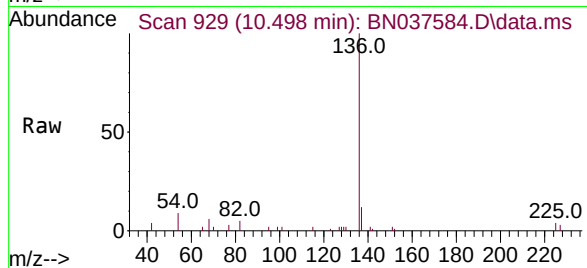




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

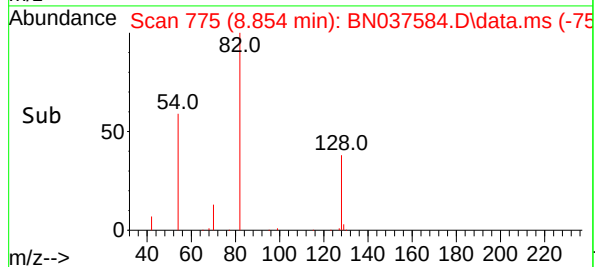
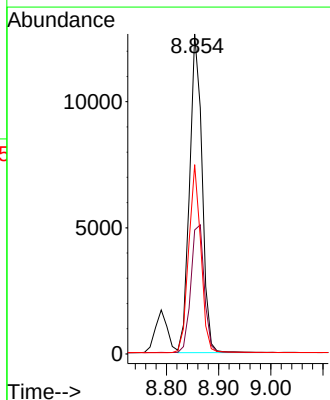
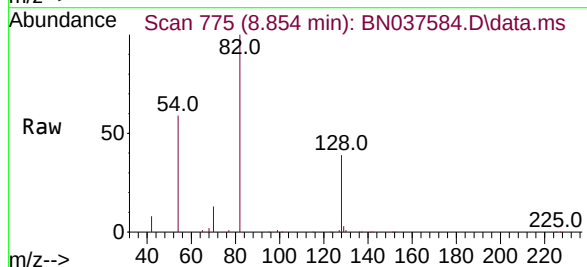
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

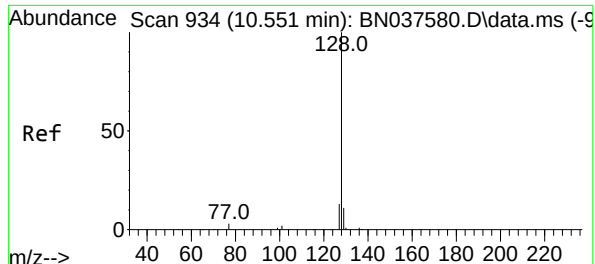
Tgt Ion:	136	Resp:	5152
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	8.9	7.3	10.9
68	6.3	5.1	7.7



#8
Nitrobenzene-d5
Concen: 5.784 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:	82	Resp:	20990
Ion	Ratio	Lower	Upper
82	100		
128	38.7	32.6	48.8
54	59.1	48.9	73.3

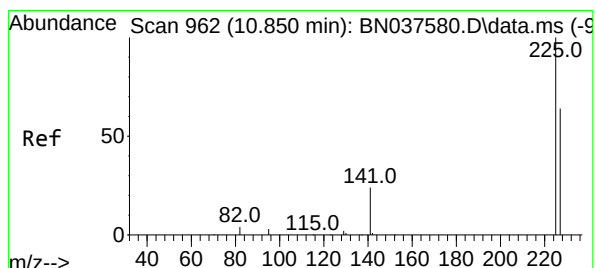
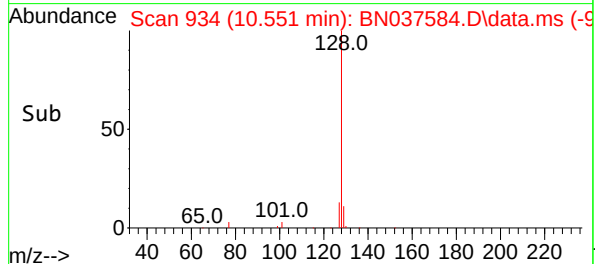
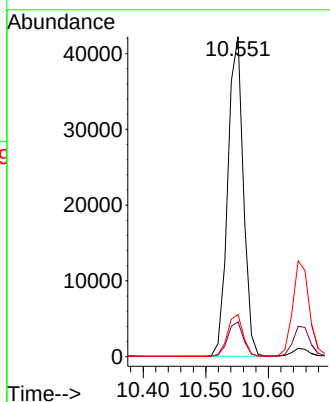
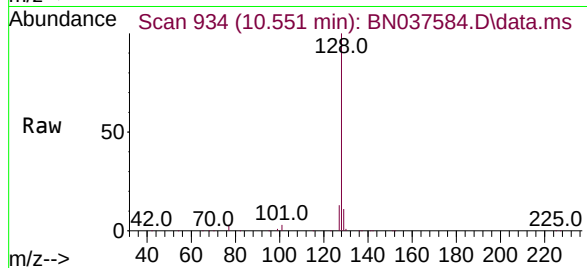




#9
Naphthalene
Concen: 5.293 ng
RT: 10.551 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

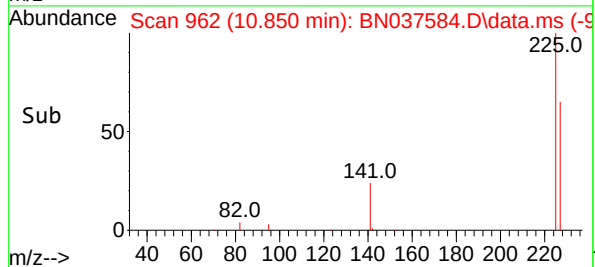
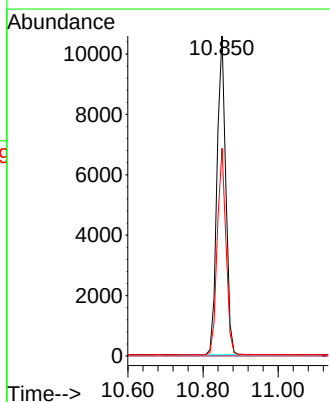
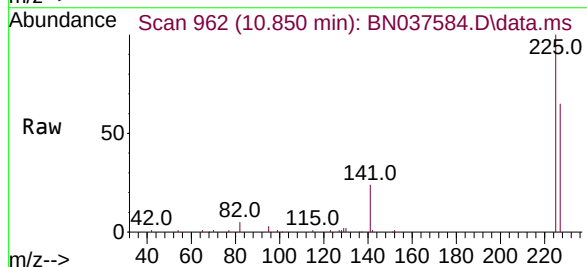
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

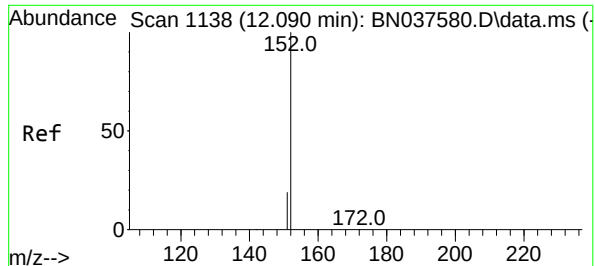
Tgt Ion:128 Resp: 72603
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.1 11.5 17.3



#10
Hexachlorobutadiene
Concen: 5.094 ng
RT: 10.850 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:225 Resp: 17071
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.8 76.2

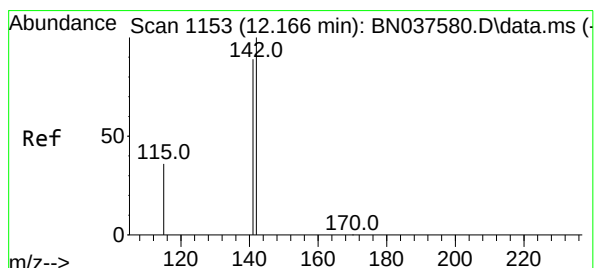
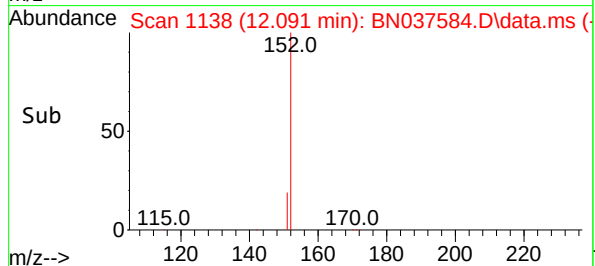
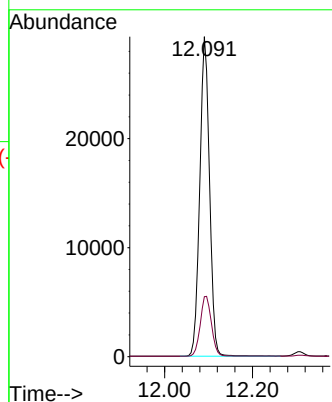
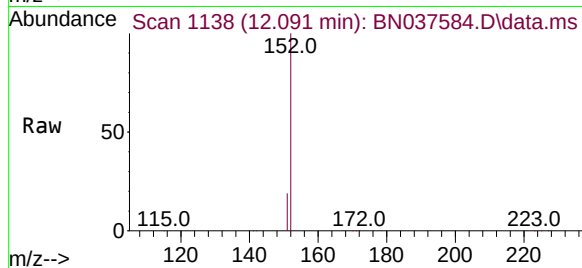




#11
2-Methylnaphthalene-d10
Concen: 6.480 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

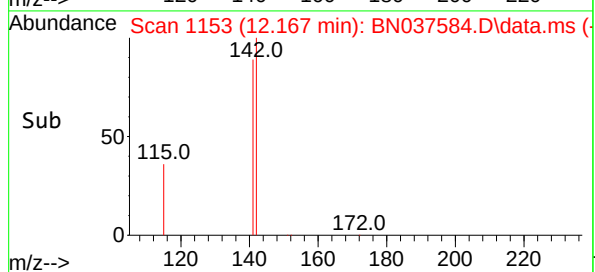
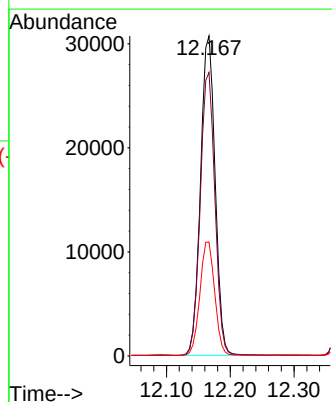
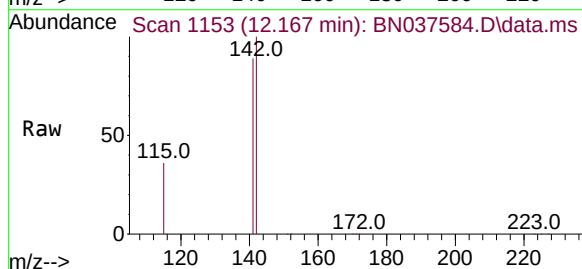
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

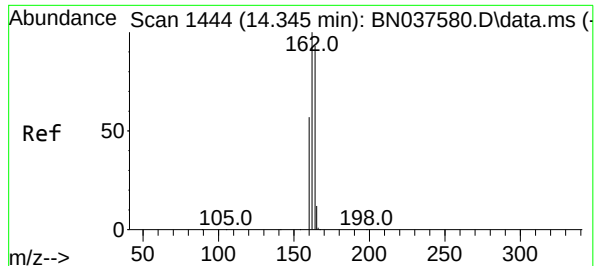
Tgt Ion:152 Resp: 45385
Ion Ratio Lower Upper
152 100
151 21.4 17.3 25.9



#12
2-Methylnaphthalene
Concen: 5.686 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:142 Resp: 48917
Ion Ratio Lower Upper
142 100
141 88.6 71.4 107.0
115 35.6 30.2 45.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 1444

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

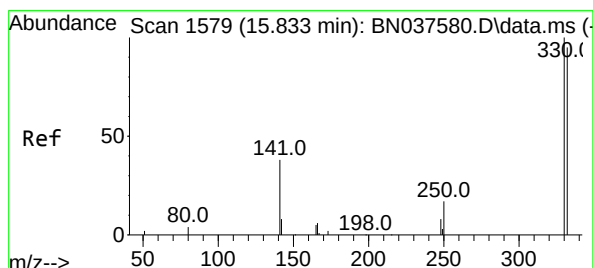
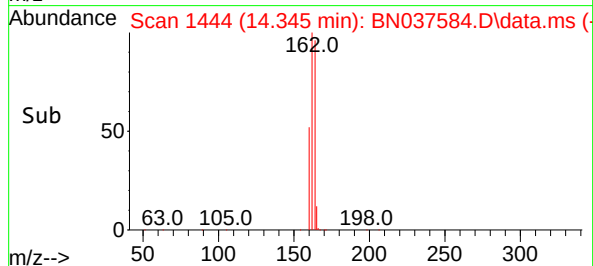
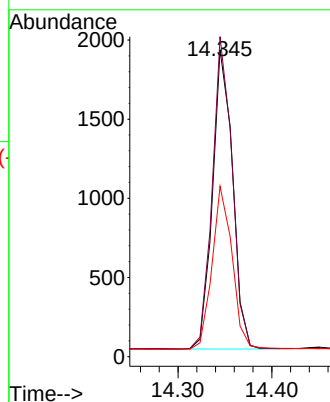
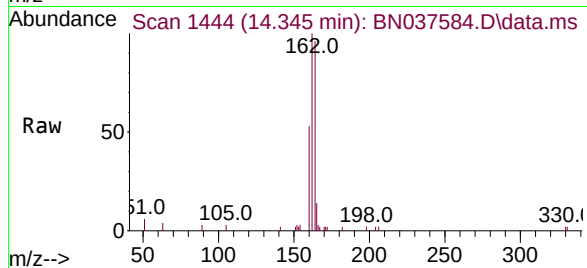
Tgt Ion:164 Resp: 2803

Ion Ratio Lower Upper

164 100

162 104.2 85.5 128.3

160 55.5 49.5 74.3



#14

2,4,6-Tribromophenol

Concen: 6.672 ng

RT: 15.833 min Scan# 1579

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

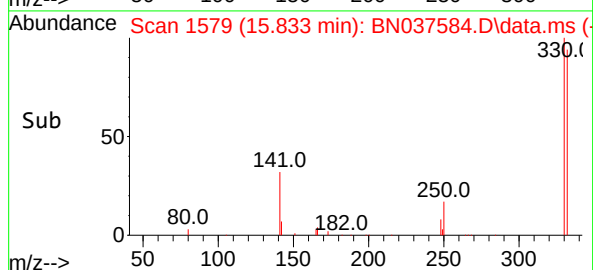
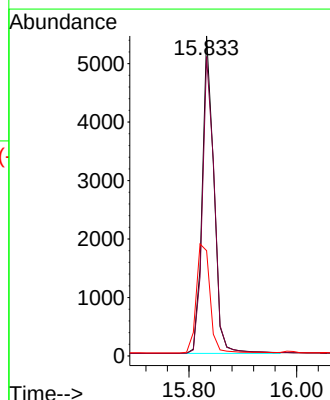
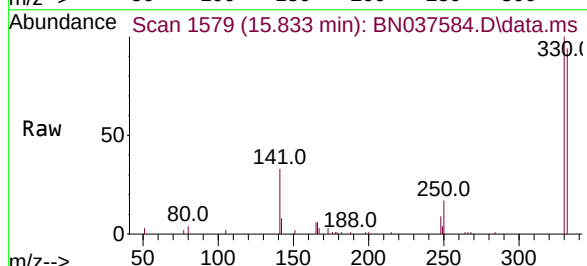
Tgt Ion:330 Resp: 8185

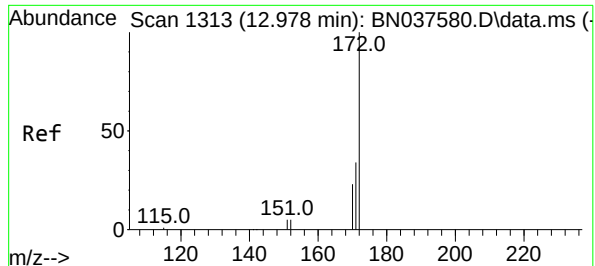
Ion Ratio Lower Upper

330 100

332 96.2 77.4 116.0

141 40.7 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 5.273 ng

RT: 12.973 min Scan# 1312

Delta R.T. -0.005 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

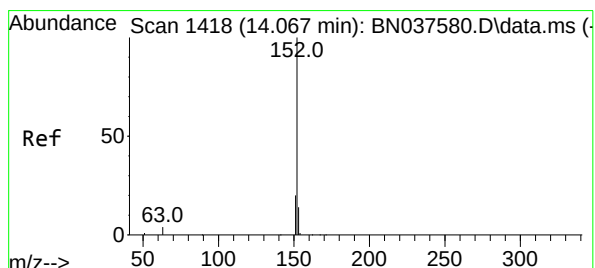
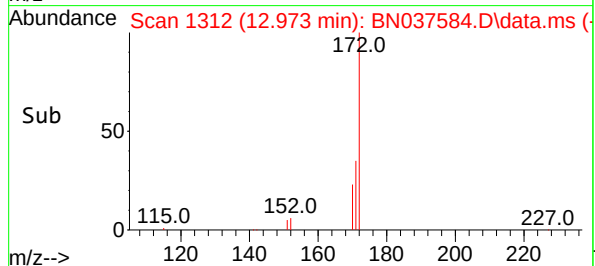
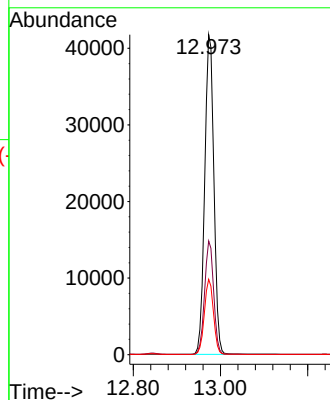
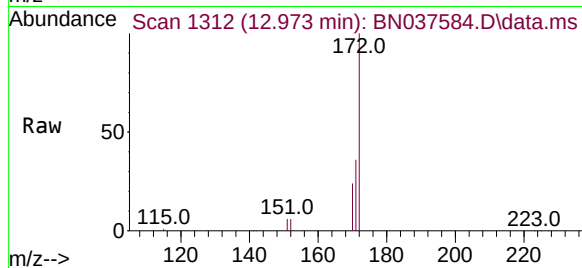
Tgt Ion:172 Resp: 85489

Ion Ratio Lower Upper

172 100

171 35.6 28.2 42.4

170 23.6 19.2 28.8



#16

Acenaphthylene

Concen: 5.521 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

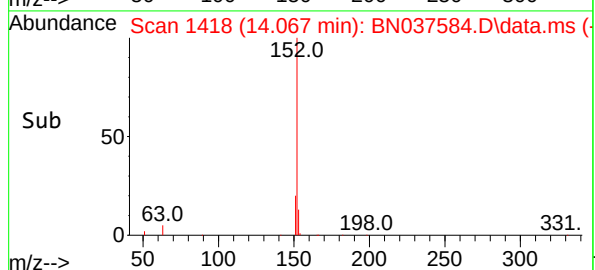
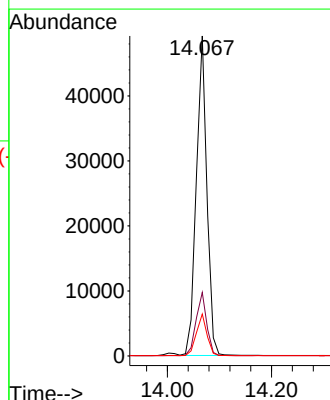
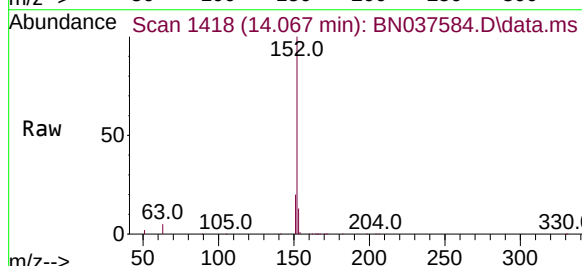
Tgt Ion:152 Resp: 69369

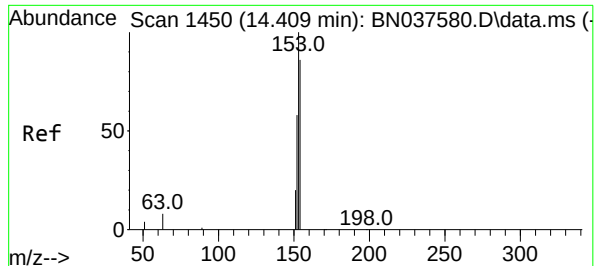
Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

153 12.9 10.7 16.1

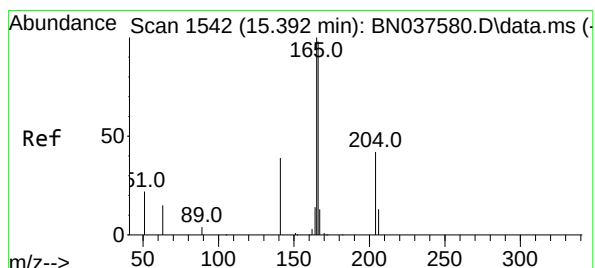
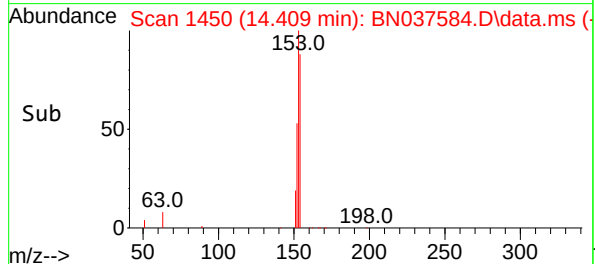
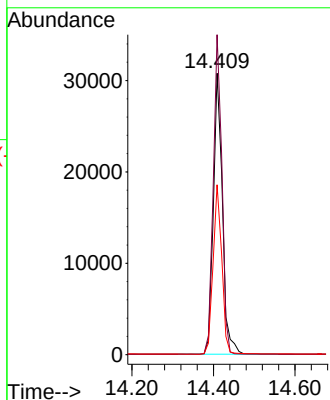
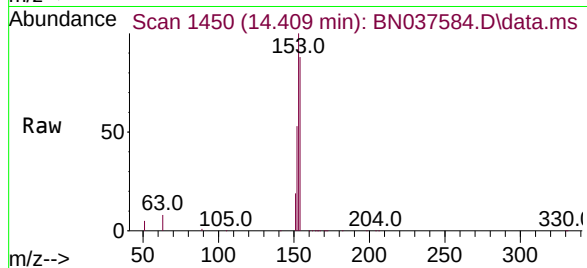




#17
Acenaphthene
Concen: 5.527 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

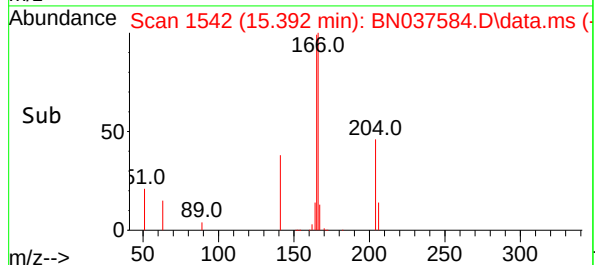
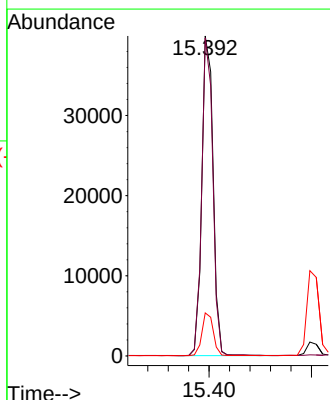
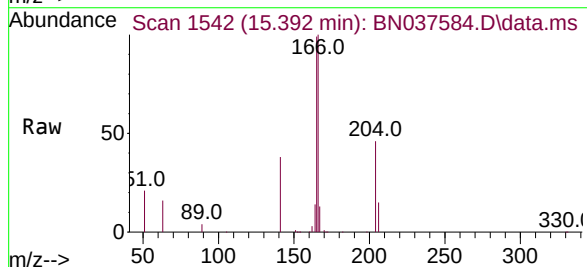
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

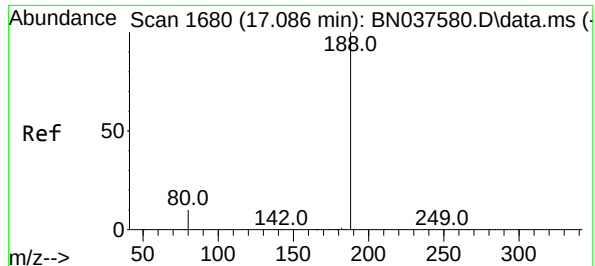
Tgt Ion:154 Resp: 47237
Ion Ratio Lower Upper
154 100
153 108.5 90.6 135.8
152 58.2 54.9 82.3



#18
Fluorene
Concen: 5.546 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:166 Resp: 62012
Ion Ratio Lower Upper
166 100
165 97.8 78.9 118.3
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

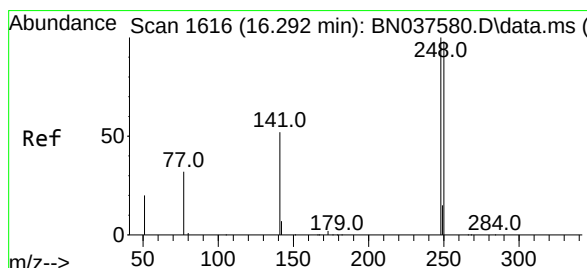
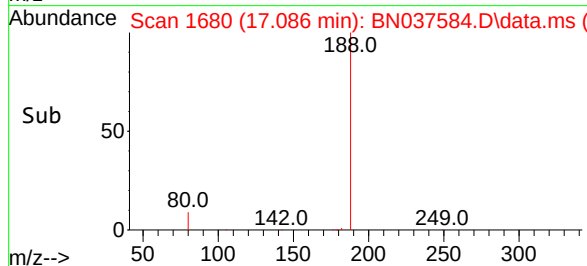
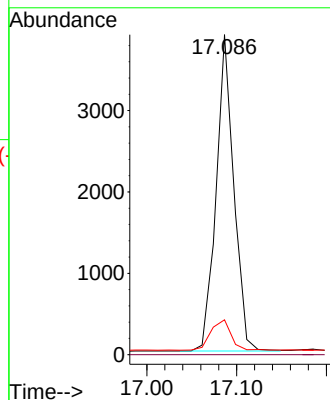
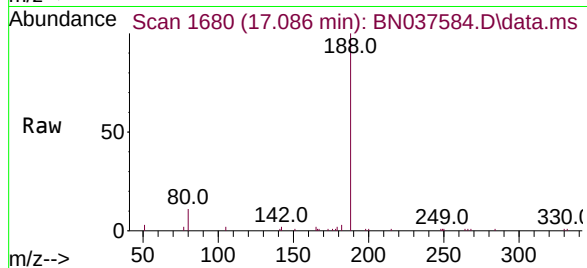
Tgt Ion:188 Resp: 5318

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 5.809 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

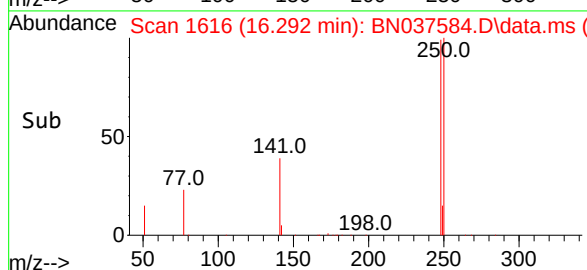
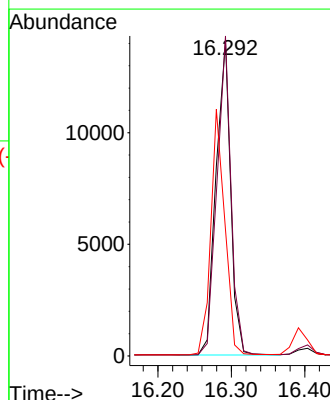
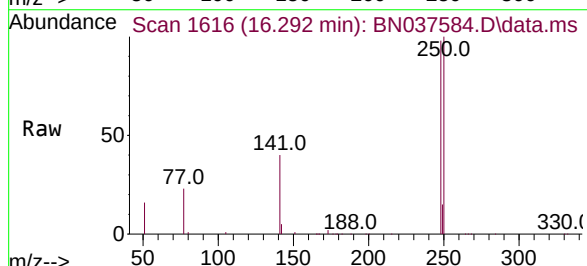
Tgt Ion:248 Resp: 19417

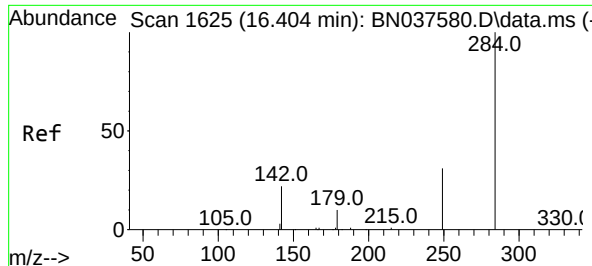
Ion Ratio Lower Upper

248 100

250 101.5 78.6 118.0

141 40.1 43.7 65.5#

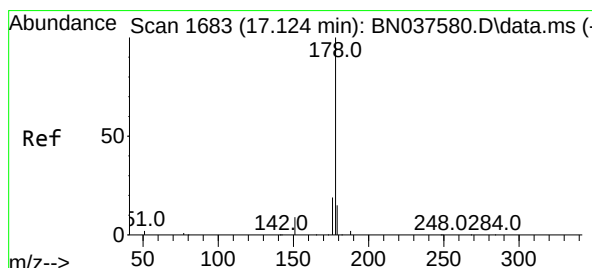
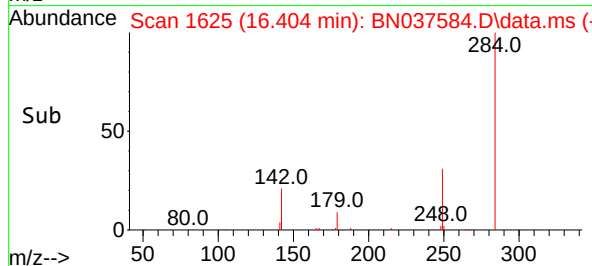
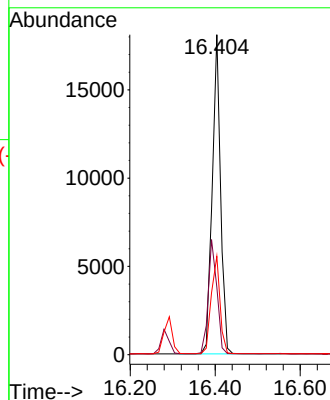
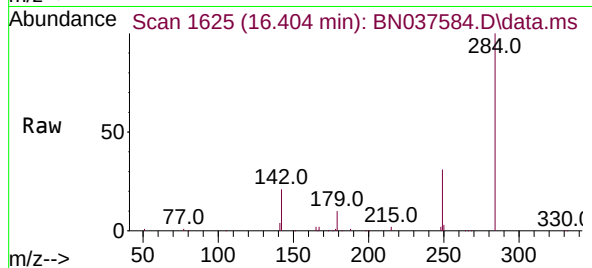




#22
Hexachlorobenzene
Concen: 5.190 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

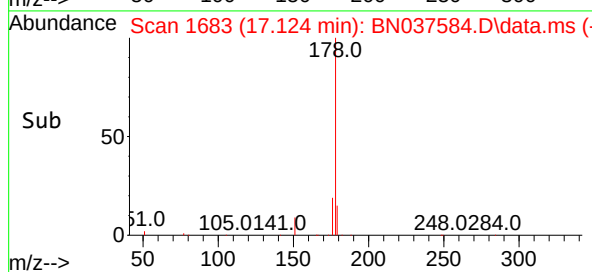
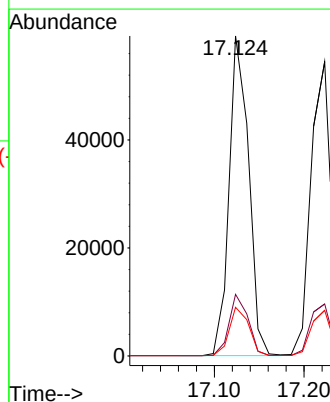
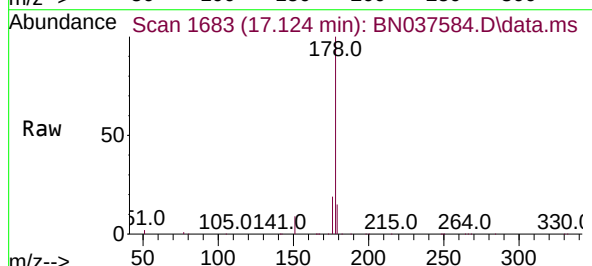
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

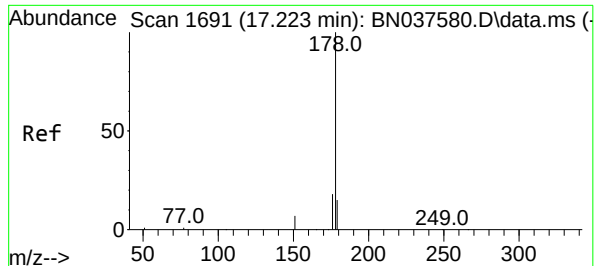
Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	29.8	44.6
249	32.3	26.0	39.0



#25
Phenanthrene
Concen: 5.537 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.3	12.3	18.5

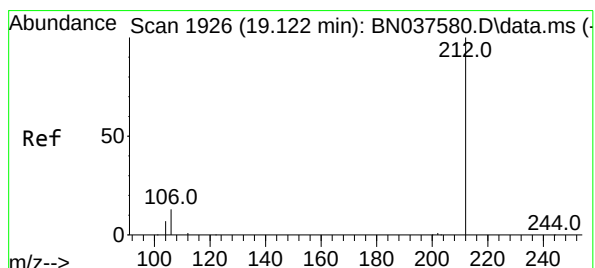
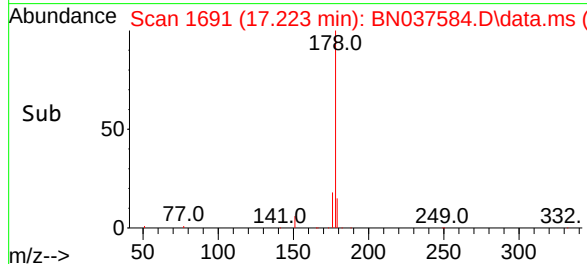
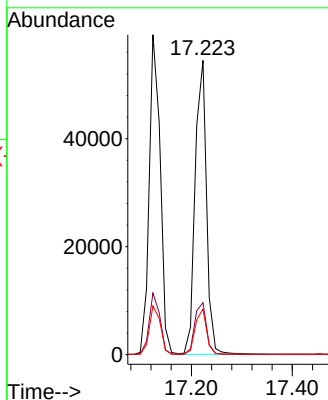
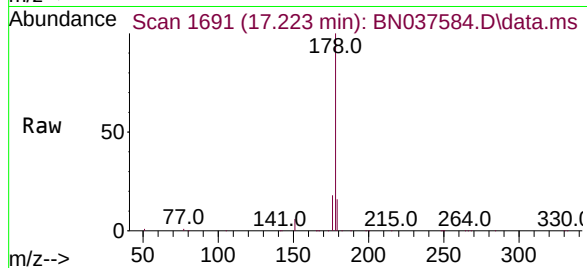




#26
Anthracene
Concen: 5.972 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

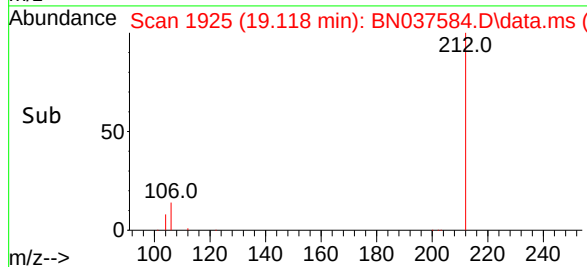
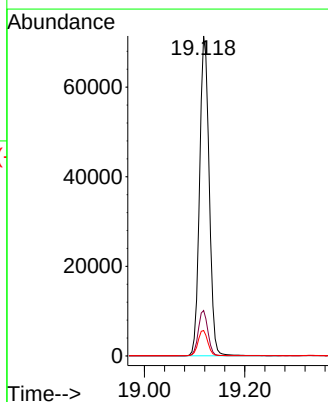
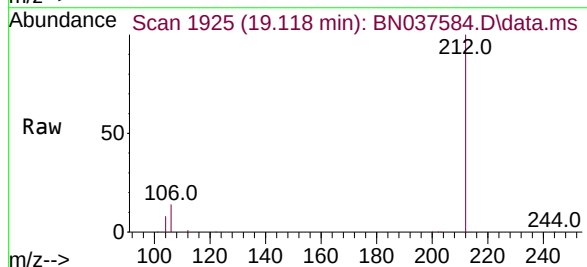
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

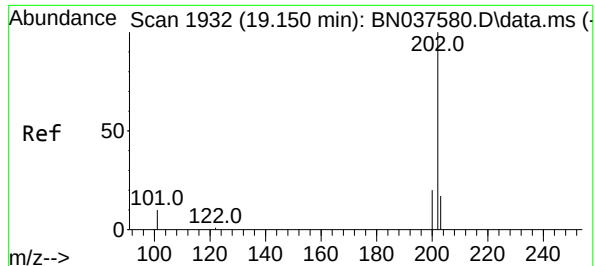
Tgt Ion:178 Resp: 85474
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.4 12.3 18.5



#27
Fluoranthene-d10
Concen: 6.743 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.005 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:212 Resp: 94332
Ion Ratio Lower Upper
212 100
106 14.2 11.5 17.3
104 8.0 6.6 9.8





#28

Fluoranthene

Concen: 5.900 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

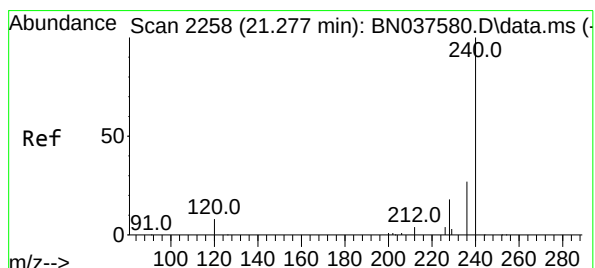
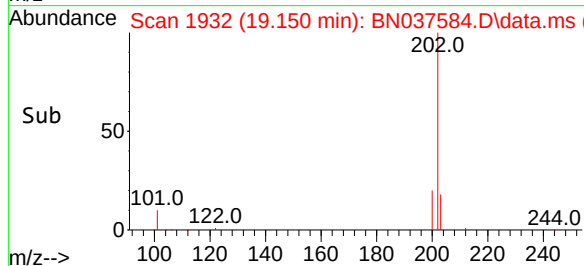
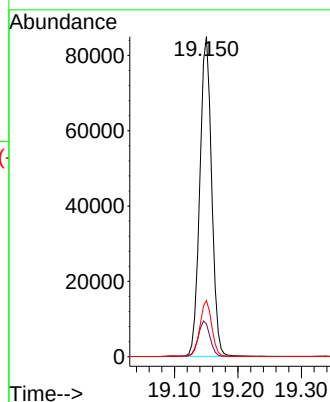
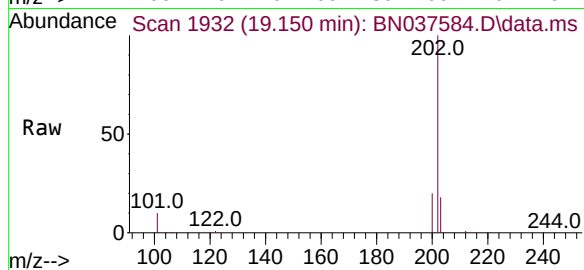
Tgt Ion:202 Resp: 109583

Ion Ratio Lower Upper

202 100

101 11.4 9.0 13.6

203 17.4 13.8 20.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 2257

Delta R.T. -0.009 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

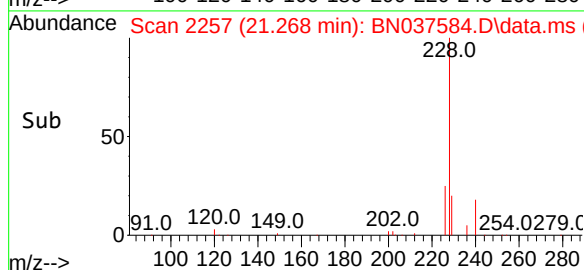
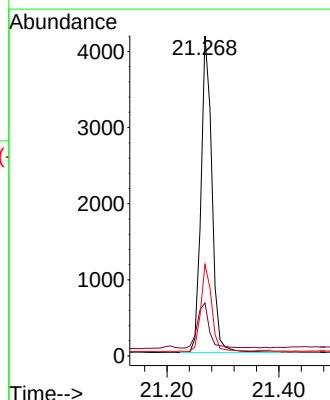
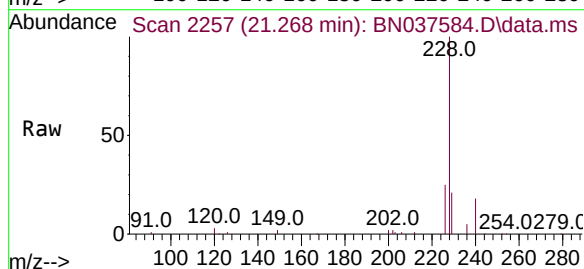
Tgt Ion:240 Resp: 5600

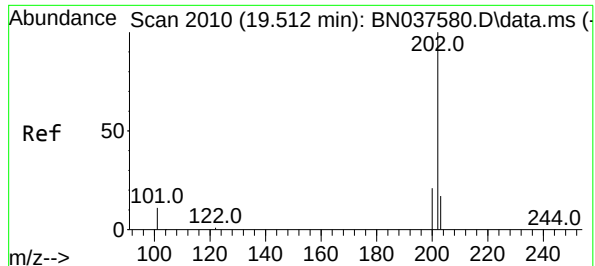
Ion Ratio Lower Upper

240 100

120 16.6 8.9 13.3#

236 28.6 22.6 33.8

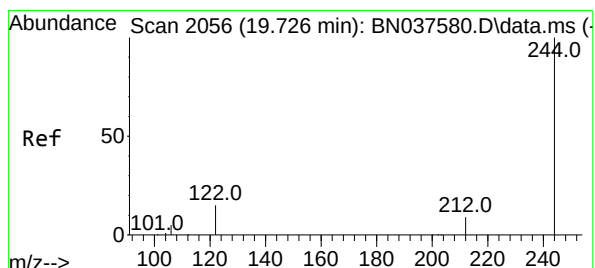
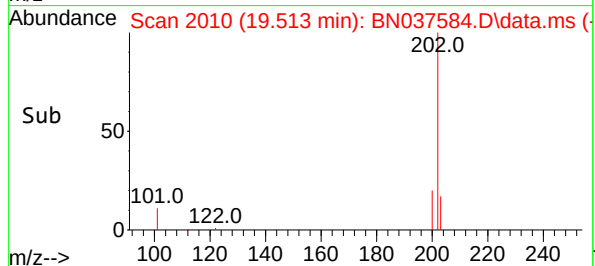
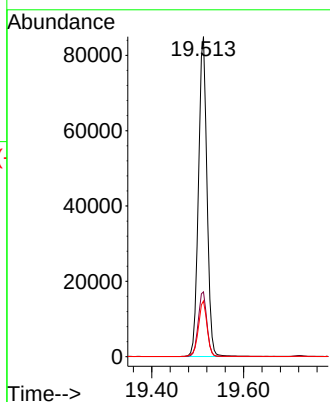
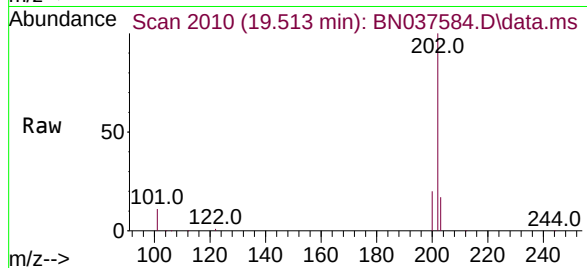




#30
Pyrene
Concen: 5.190 ng
RT: 19.513 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

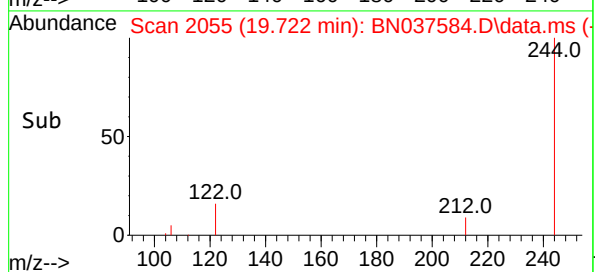
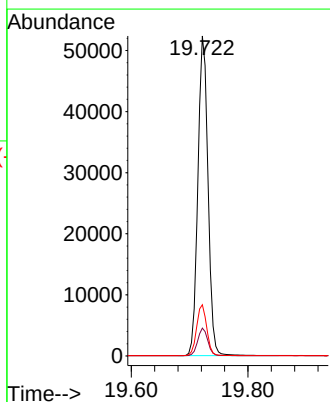
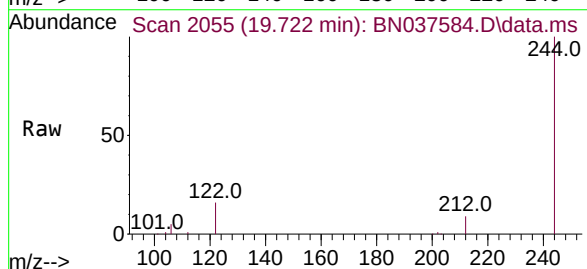
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

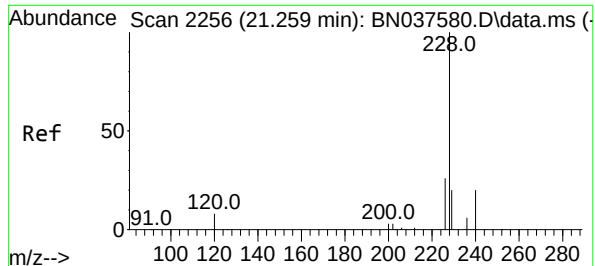
Tgt Ion:202 Resp: 108658
Ion Ratio Lower Upper
202 100
200 20.6 16.6 25.0
203 17.8 14.3 21.5



#31
Terphenyl-d14
Concen: 5.477 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.005 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:244 Resp: 63100
Ion Ratio Lower Upper
244 100
212 8.7 8.2 12.2
122 16.0 13.2 19.8





#32

Benzo(a)anthracene

Concen: 5.564 ng

RT: 21.250 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

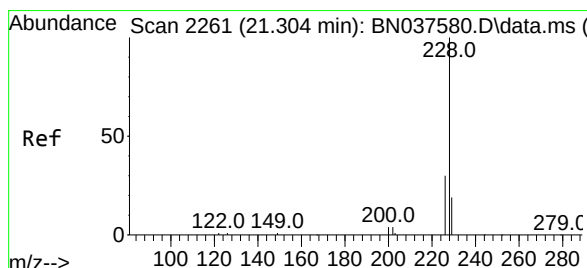
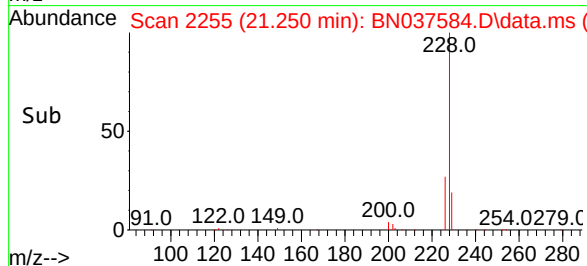
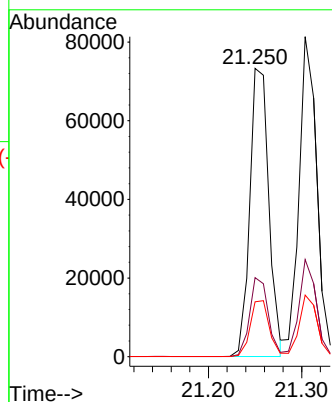
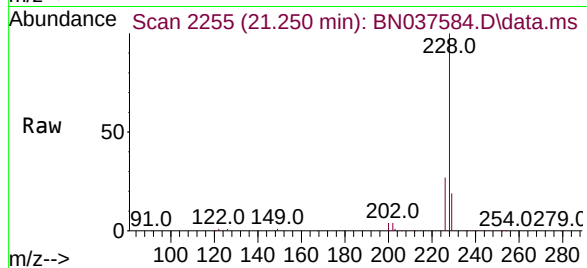
Tgt Ion:228 Resp: 104084

Ion Ratio Lower Upper

228 100

226 27.4 21.5 32.3

229 19.0 16.5 24.7



#33

Chrysene

Concen: 5.207 ng

RT: 21.304 min Scan# 2261

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

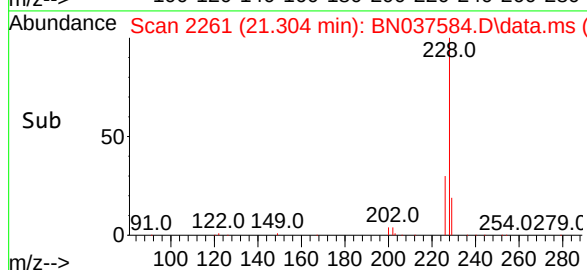
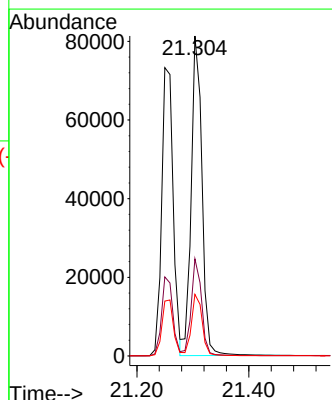
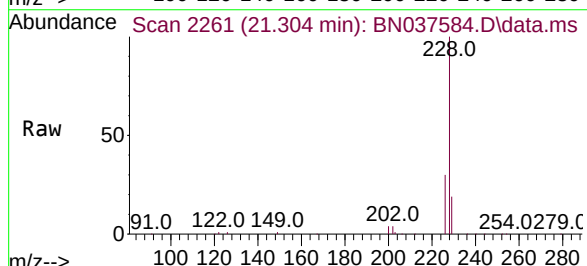
Tgt Ion:228 Resp: 108554

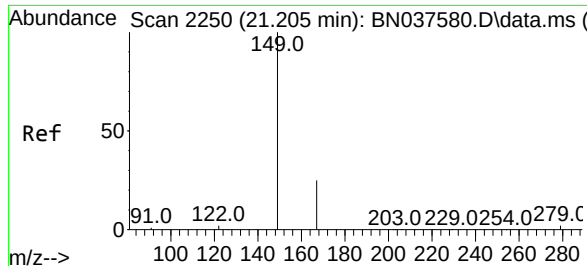
Ion Ratio Lower Upper

228 100

226 30.4 24.9 37.3

229 19.2 15.8 23.8

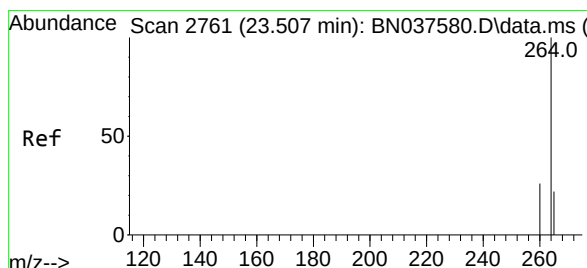
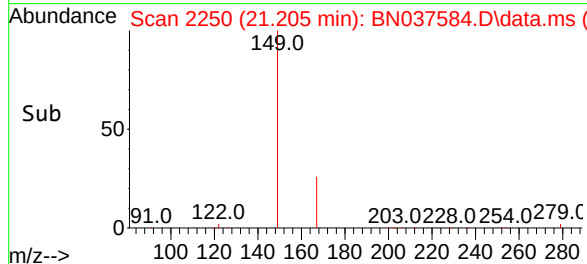
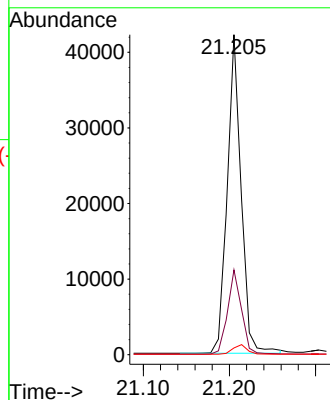
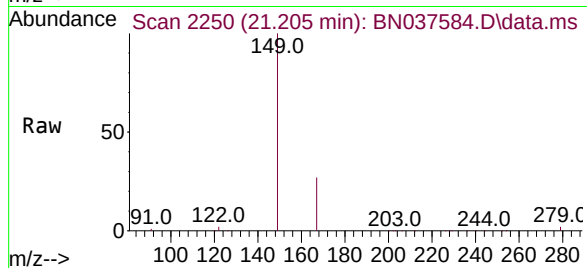




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.087 ng
RT: 21.205 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

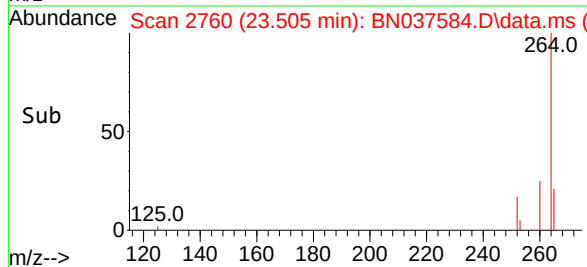
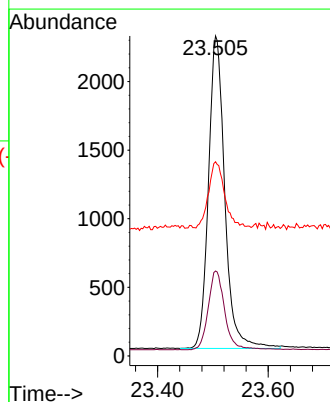
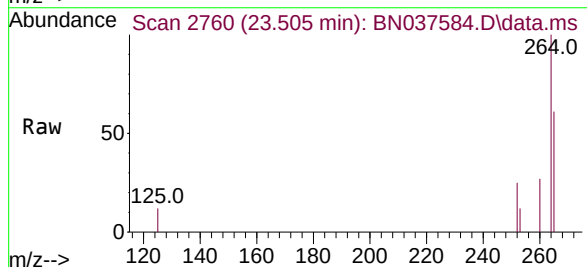
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

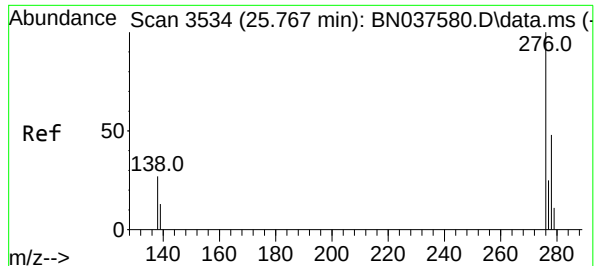
Tgt Ion:149 Resp: 46994
Ion Ratio Lower Upper
149 100
167 26.4 20.5 30.7
279 3.1 2.6 4.0



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.505 min Scan# 2760
Delta R.T. -0.003 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:264 Resp: 4653
Ion Ratio Lower Upper
264 100
260 26.5 21.6 32.4
265 60.7 48.2 72.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.965 ng

RT: 25.768 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

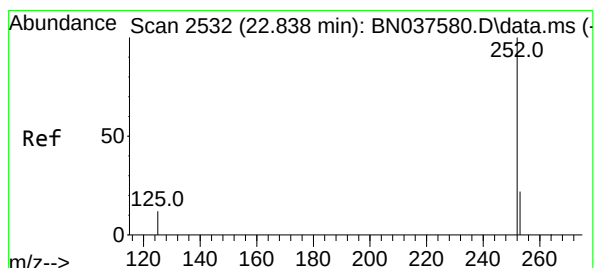
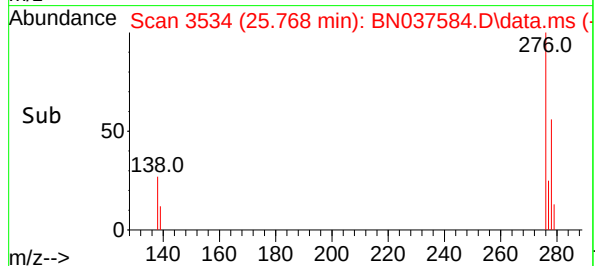
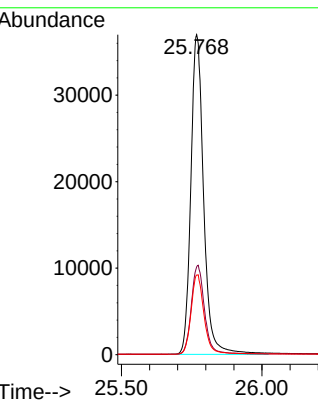
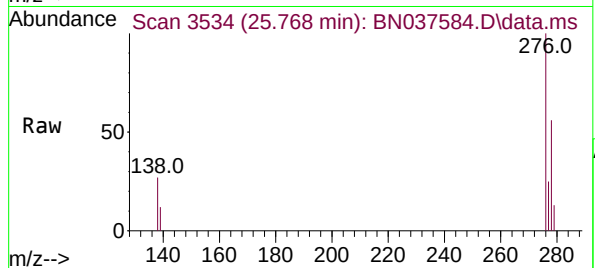
Tgt Ion:276 Resp: 116962

Ion Ratio Lower Upper

276 100

138 28.5 23.3 34.9

277 25.2 19.5 29.3



#37

Benzo(b)fluoranthene

Concen: 6.019 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

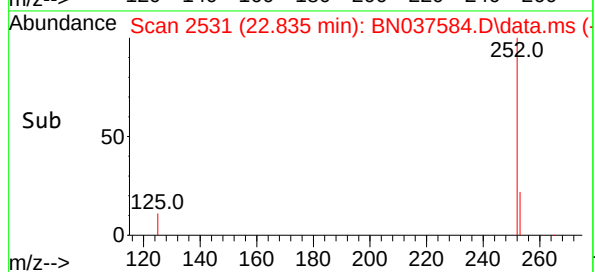
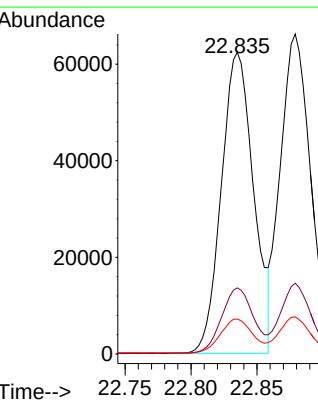
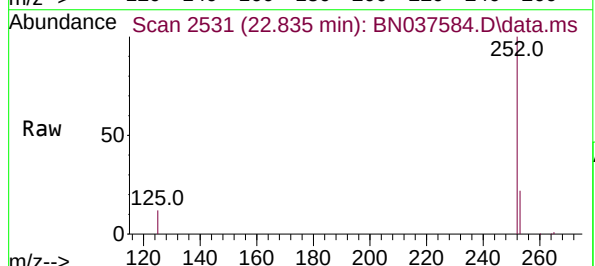
Tgt Ion:252 Resp: 106138

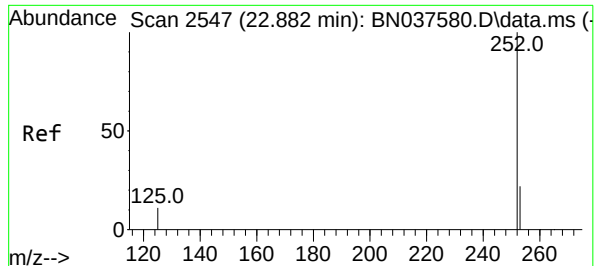
Ion Ratio Lower Upper

252 100

253 21.9 20.0 30.0

125 11.6 13.8 20.6#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 22.879 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

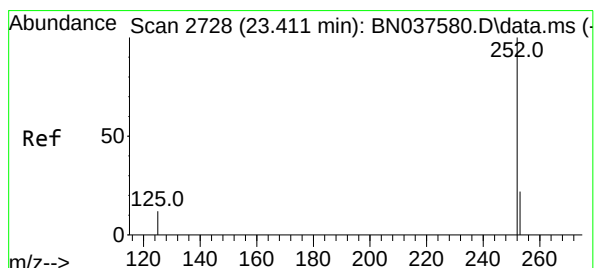
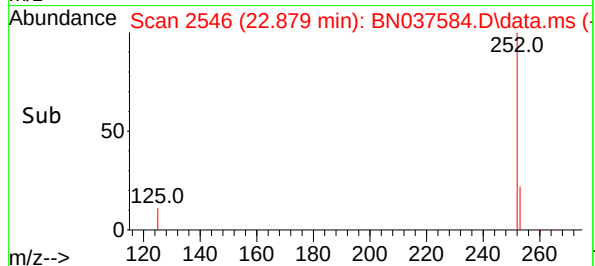
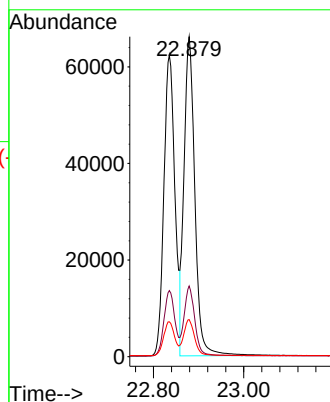
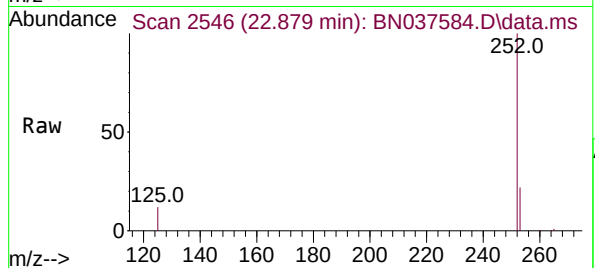
Tgt Ion:252 Resp: 110373

Ion Ratio Lower Upper

252 100

253 22.1 19.9 29.9

125 11.6 15.0 22.6#



#39

Benzo(a)pyrene

Concen: 5.997 ng

RT: 23.408 min Scan# 2727

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

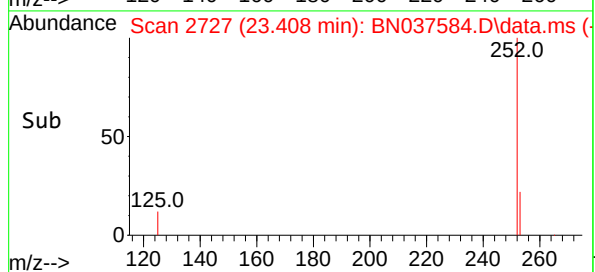
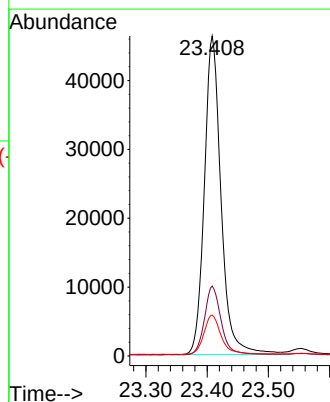
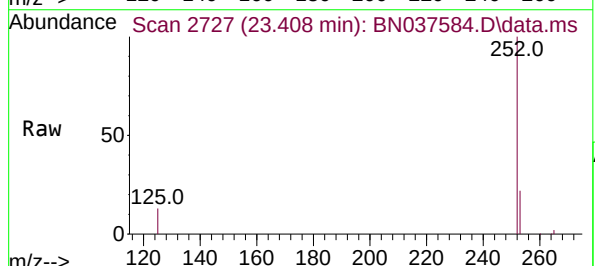
Tgt Ion:252 Resp: 87699

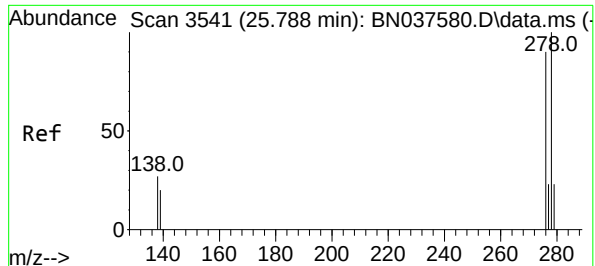
Ion Ratio Lower Upper

252 100

253 21.8 21.6 32.4

125 12.8 16.8 25.2#





#40

Dibenzo(a,h)anthracene

Concen: 6.197 ng

RT: 25.782 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

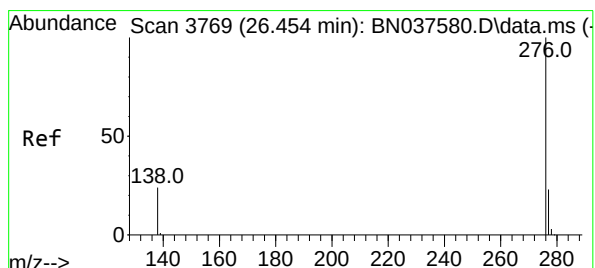
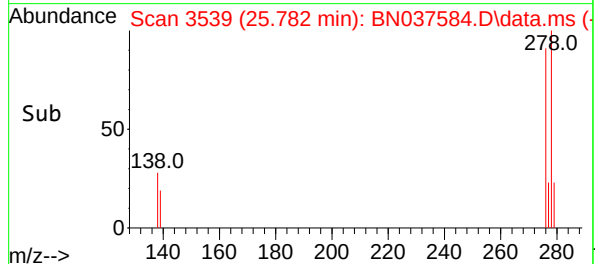
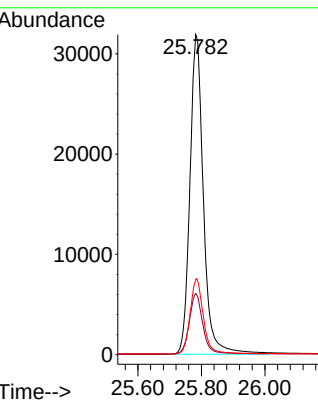
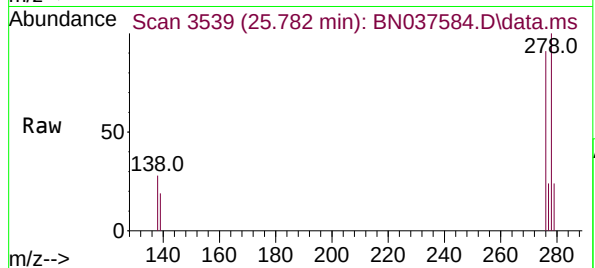
Tgt Ion:278 Resp: 94267

Ion Ratio Lower Upper

278 100

139 19.1 18.3 27.5

279 23.6 22.5 33.7



#41

Benzo(g,h,i)perylene

Concen: 5.960 ng

RT: 26.458 min Scan# 3770

Delta R.T. 0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

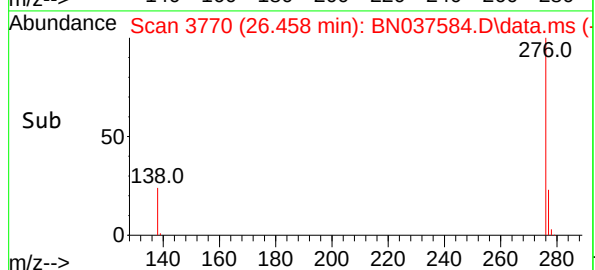
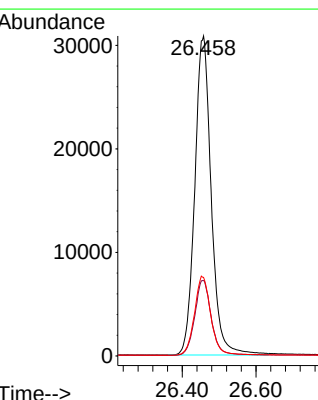
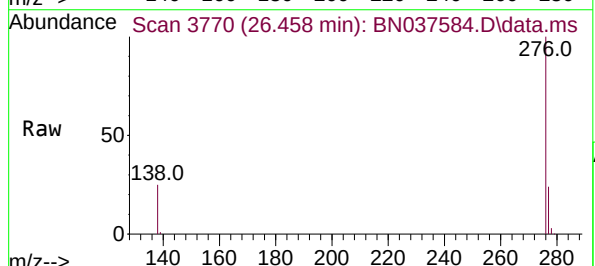
Tgt Ion:276 Resp: 95537

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.4

138 24.5 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037585.D
 Acq On : 12 Aug 2025 20:42
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081225

Quant Time: Aug 13 05:03:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

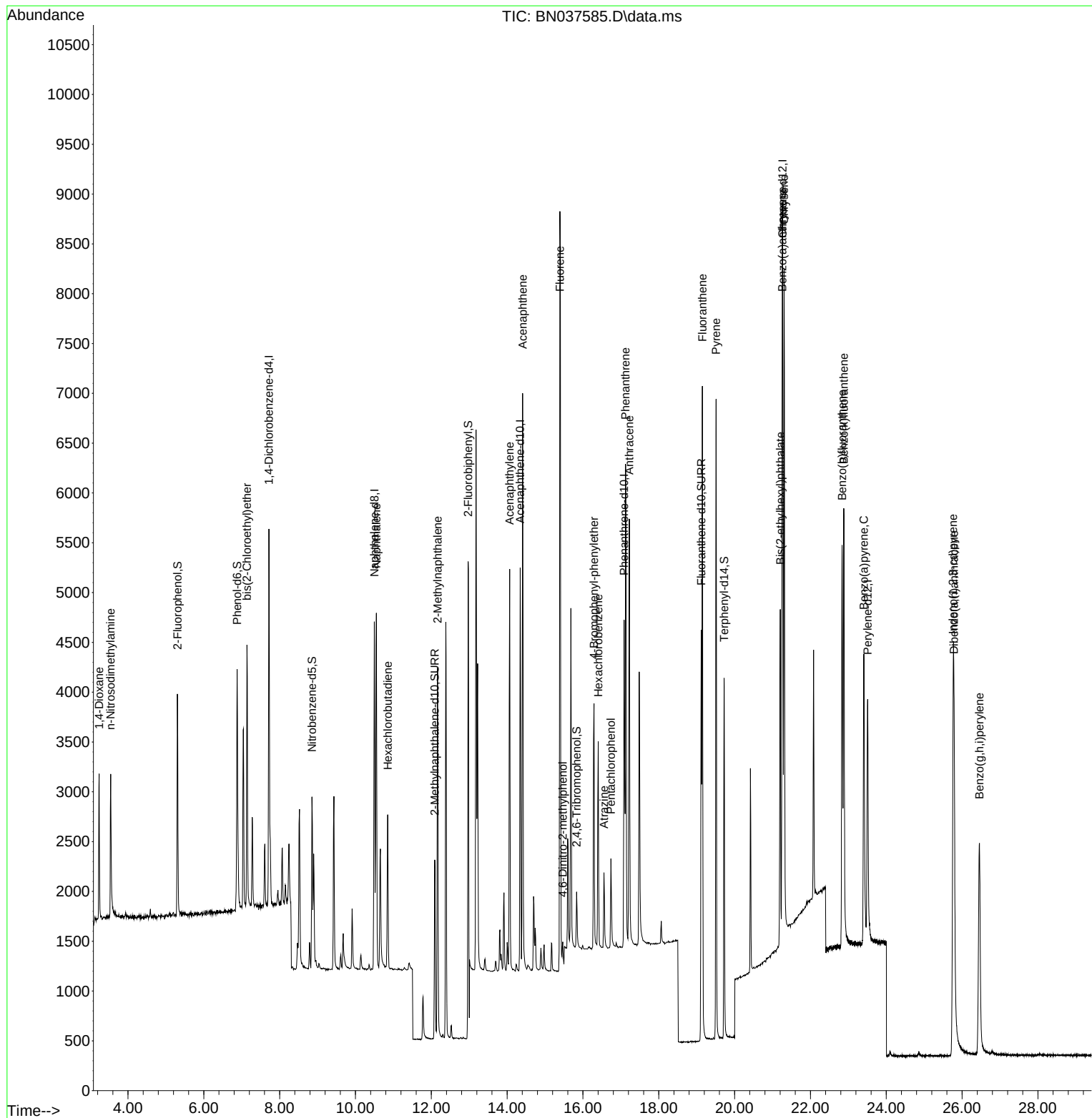
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1850	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4517	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2241	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4564	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4001	0.400	ng	# 0.00
35) Perylene-d12	23.511	264	3490	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1785	0.426	ng	0.00
5) Phenol-d6	6.880	99	2272	0.450	ng	0.00
8) Nitrobenzene-d5	8.854	82	1408	0.443	ng	0.00
11) 2-Methylnaphthalene-d10	12.091	152	2611	0.425	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	358	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	5746	0.443	ng	0.00
27) Fluoranthene-d10	19.118	212	4866	0.405	ng	0.00
31) Terphenyl-d14	19.727	244	3884	0.472	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.240	88	889	0.502	ng	99
3) n-Nitrosodimethylamine	3.543	42	1054	0.466	ng	98
6) bis(2-Chloroethyl)ether	7.140	93	1993	0.438	ng	99
9) Naphthalene	10.552	128	4985	0.415	ng	100
10) Hexachlorobutadiene	10.851	225	1259	0.429	ng	# 100
12) 2-Methylnaphthalene	12.167	142	2809	0.372	ng	98
16) Acenaphthylene	14.067	152	4504	0.448	ng	99
17) Acenaphthene	14.409	154	2768	0.405	ng	99
18) Fluorene	15.393	166	3592	0.402	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	209	0.433	ng	97
21) 4-Bromophenyl-phenylether	16.292	248	1147	0.400	ng	98
22) Hexachlorobenzene	16.404	284	1702	0.419	ng	99
23) Atrazine	16.553	200	681	0.420	ng	98
24) Pentachlorophenol	16.739	266	484	0.339	ng	96
25) Phenanthrene	17.124	178	5612	0.404	ng	100
26) Anthracene	17.223	178	4939	0.402	ng	99
28) Fluoranthene	19.150	202	6097	0.382	ng	100
30) Pyrene	19.513	202	5925	0.396	ng	100
32) Benzo(a)anthracene	21.259	228	5497	0.411	ng	100
33) Chrysene	21.304	228	6035	0.405	ng	98
34) Bis(2-ethylhexyl)phtha...	21.205	149	2306	0.418	ng	99
36) Indeno(1,2,3-cd)pyrene	25.765	276	6028	0.410	ng	99
37) Benzo(b)fluoranthene	22.835	252	5410	0.409	ng	99
38) Benzo(k)fluoranthene	22.879	252	6026	0.404	ng	99
39) Benzo(a)pyrene	23.408	252	4761	0.434	ng	99
40) Dibenzo(a,h)anthracene	25.788	278	4571	0.401	ng	100
41) Benzo(g,h,i)perylene	26.458	276	4888	0.407	ng	99

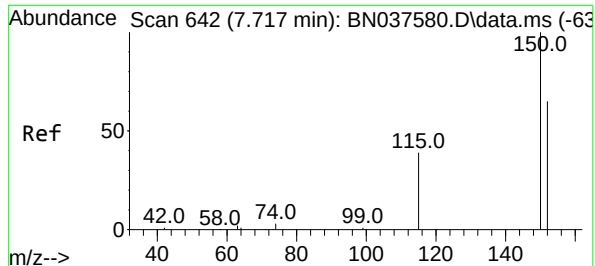
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037585.D
Acq On : 12 Aug 2025 20:42
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

Quant Time: Aug 13 05:03:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

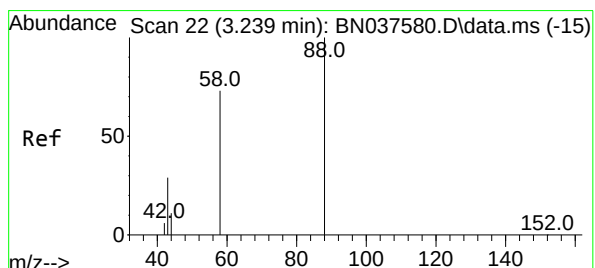
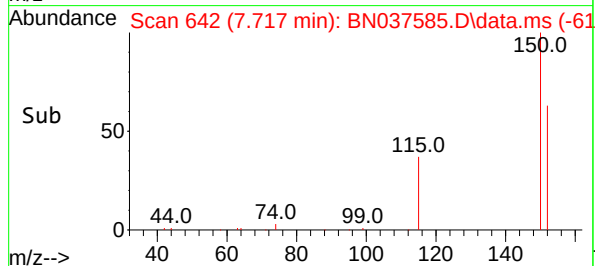
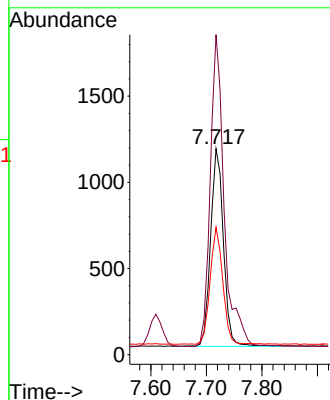
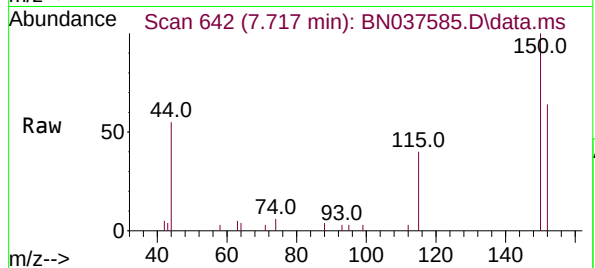




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

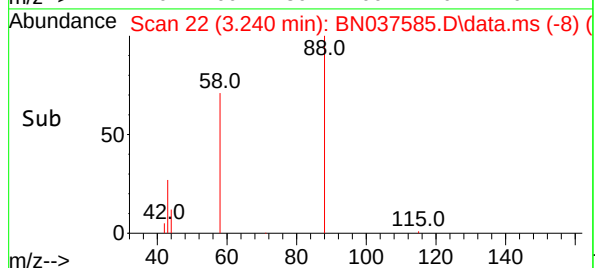
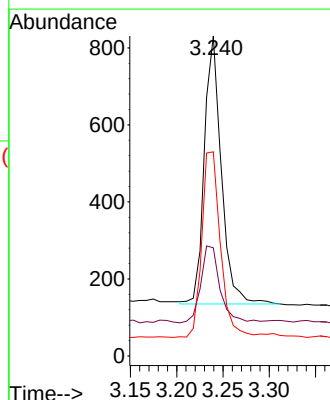
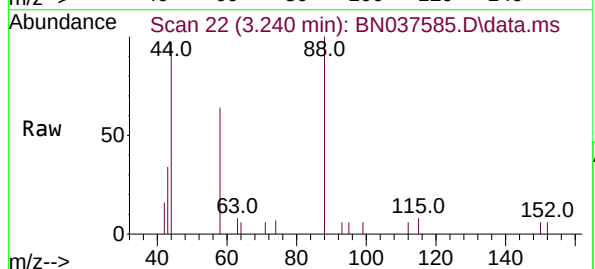
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

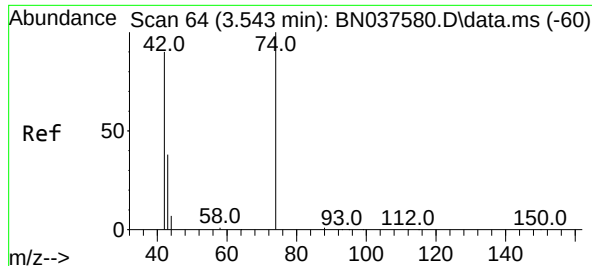
Tgt Ion:152 Resp: 1850
Ion Ratio Lower Upper
152 100
150 155.4 122.2 183.4
115 61.8 49.8 74.6



#2
1,4-Dioxane
Concen: 0.502 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion: 88 Resp: 889
Ion Ratio Lower Upper
88 100
43 32.6 25.8 38.6
58 76.0 61.2 91.8

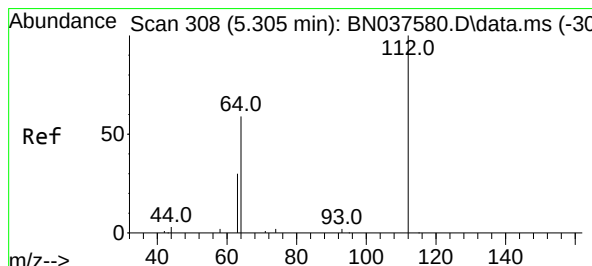
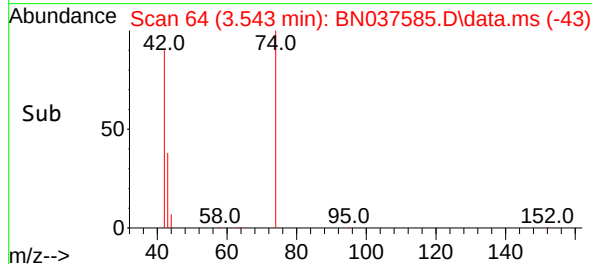
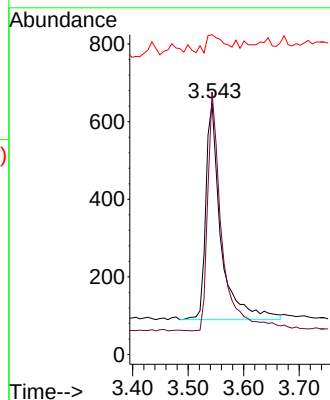
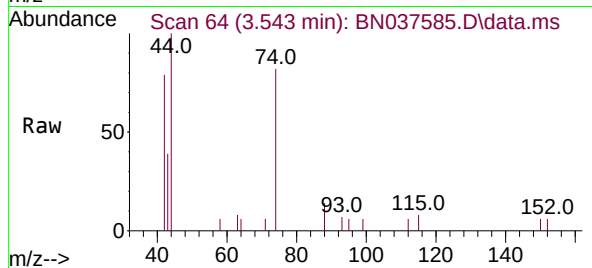




#3
n-Nitrosodimethylamine
Concen: 0.466 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

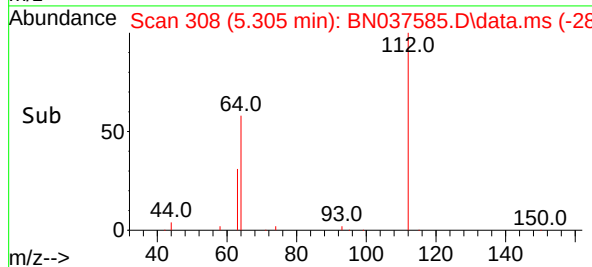
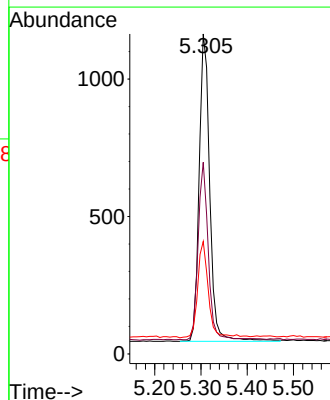
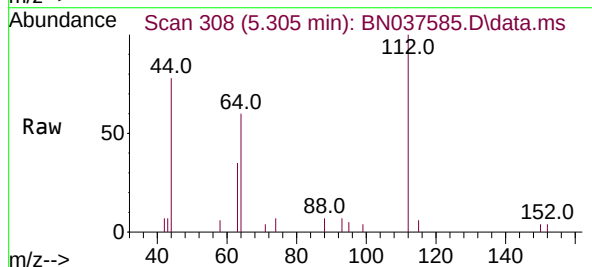
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

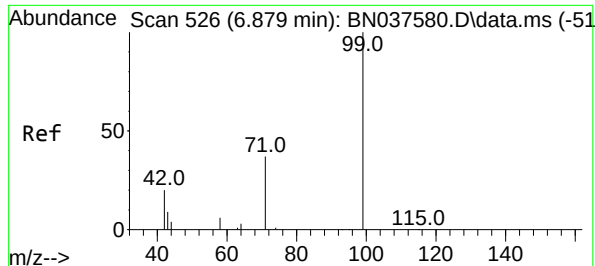
Tgt Ion: 42 Resp: 1054
Ion Ratio Lower Upper
42 100
74 104.6 82.0 123.0
44 9.7 7.9 11.9



#4
2-Fluorophenol
Concen: 0.426 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion: 112 Resp: 1785
Ion Ratio Lower Upper
112 100
64 55.4 44.9 67.3
63 31.3 23.4 35.2





#5

Phenol-d6

Concen: 0.450 ng

RT: 6.880 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

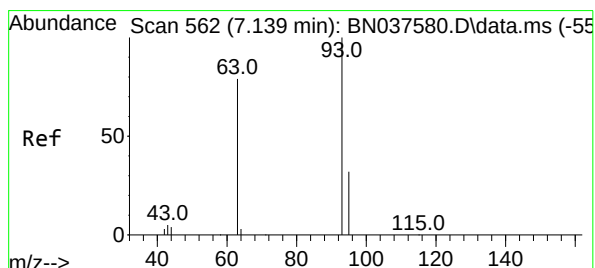
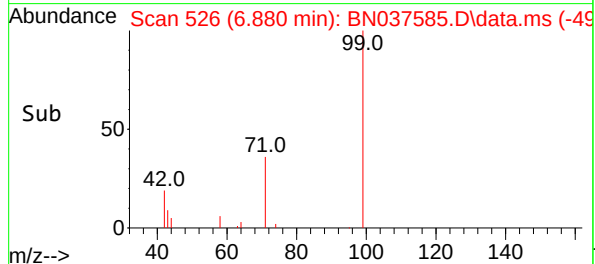
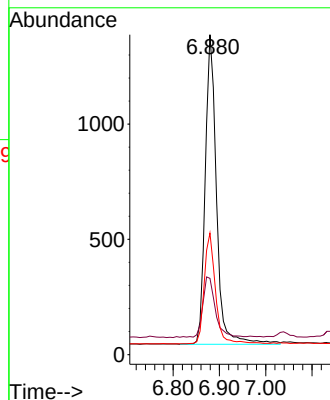
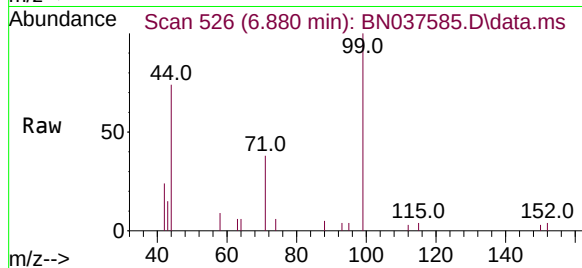
Tgt Ion: 99 Resp: 2272

Ion Ratio Lower Upper

99 100

42 21.9 18.5 27.7

71 35.6 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.438 ng

RT: 7.140 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

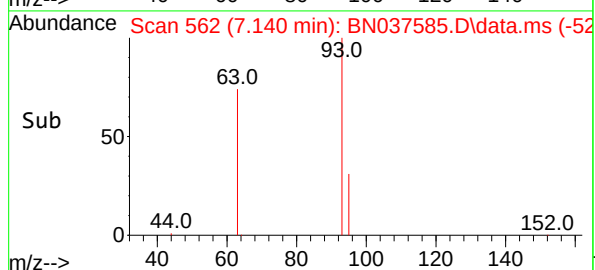
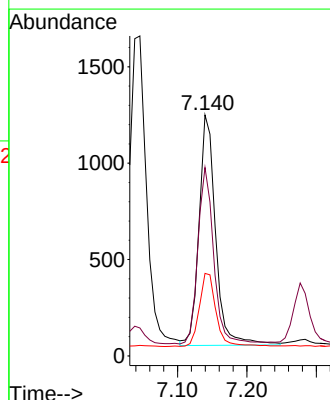
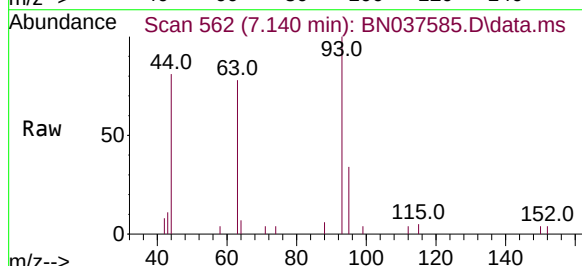
Tgt Ion: 93 Resp: 1993

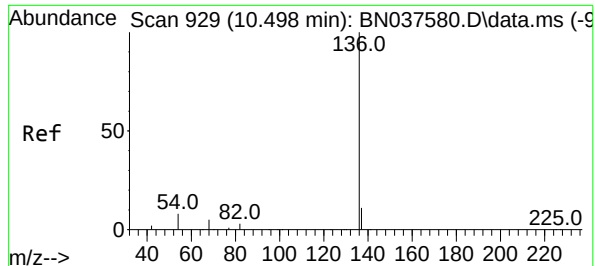
Ion Ratio Lower Upper

93 100

63 72.5 58.0 87.0

95 32.1 24.9 37.3

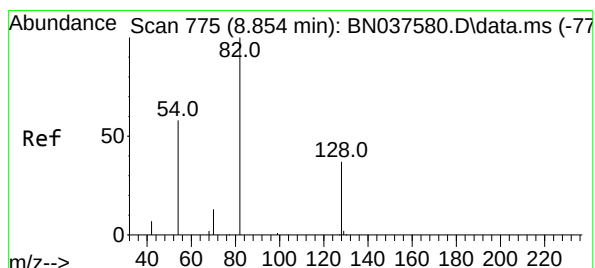
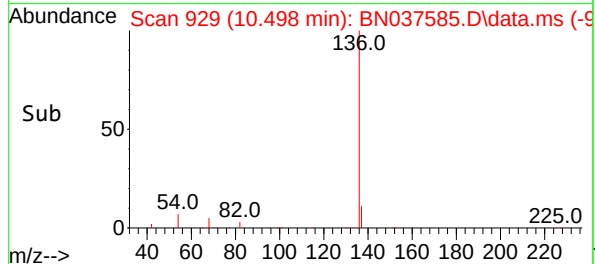
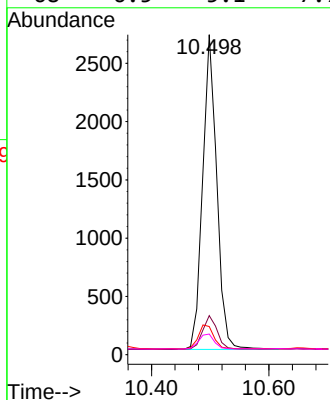
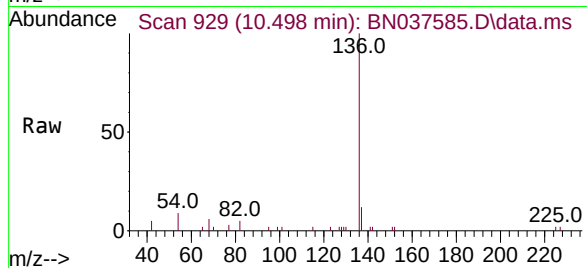




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

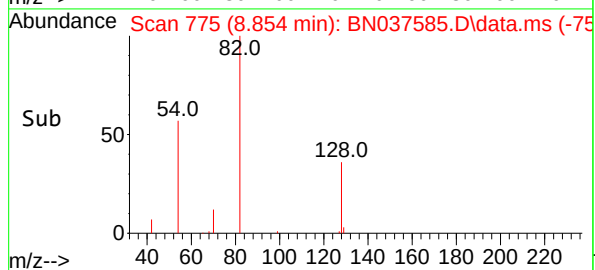
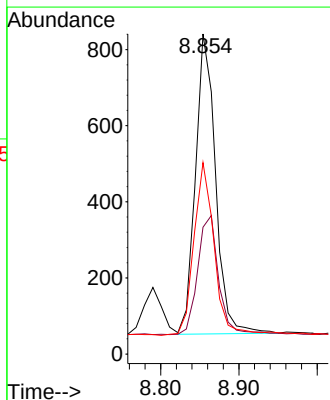
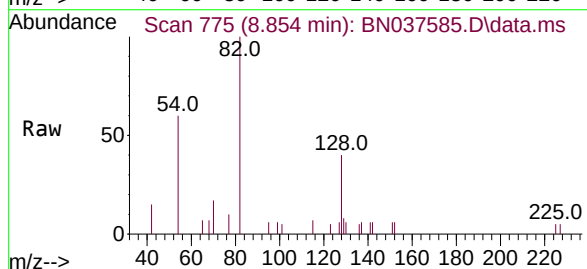
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

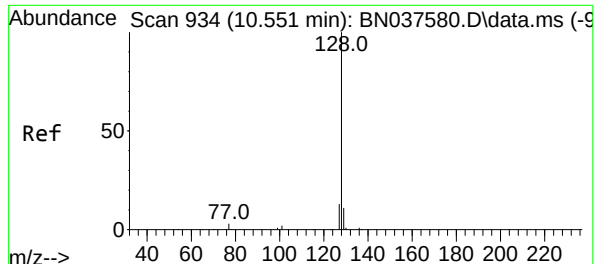
Tgt Ion:	136	Resp:	4517
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	8.8	7.3	10.9
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.443 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:	82	Resp:	1408
Ion	Ratio	Lower	Upper
82	100		
128	39.6	32.6	48.8
54	59.8	48.9	73.3





#9

Naphthalene

Concen: 0.415 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

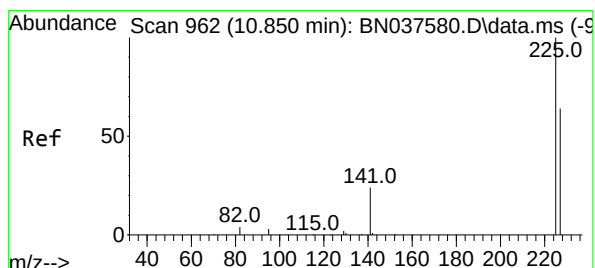
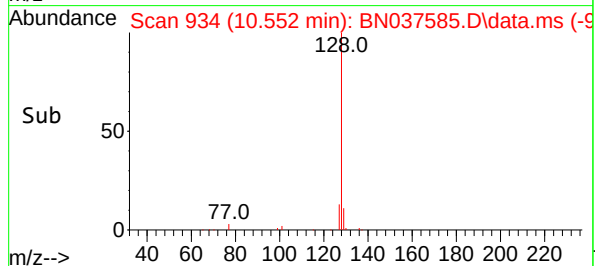
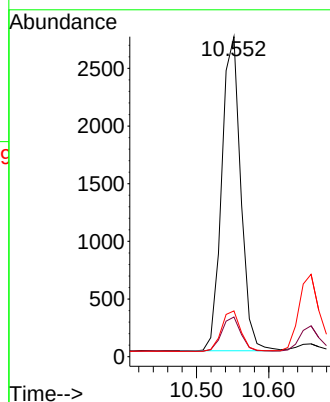
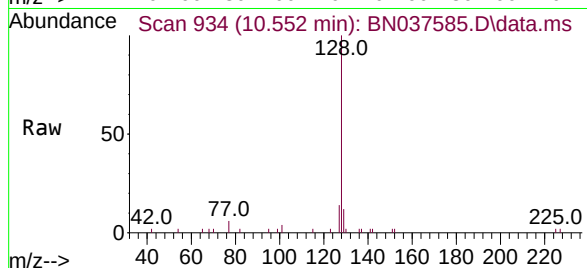
Tgt Ion:128 Resp: 4985

Ion Ratio Lower Upper

128 100

129 12.4 9.8 14.6

127 14.3 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.429 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

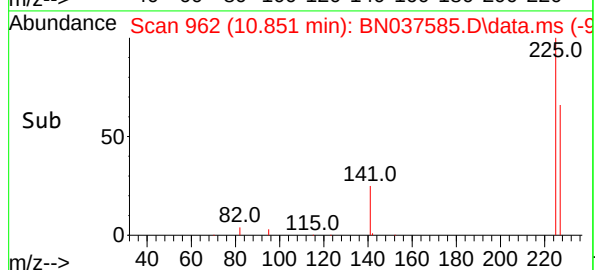
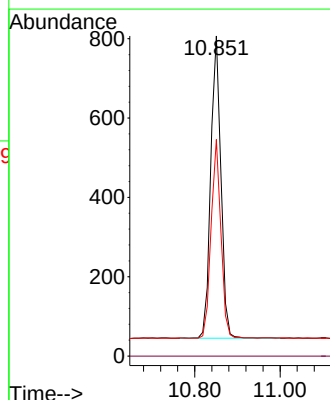
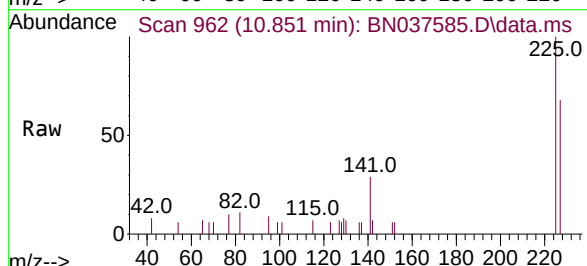
Tgt Ion:225 Resp: 1259

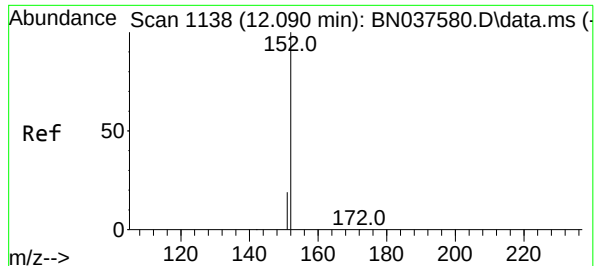
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 50.8 76.2

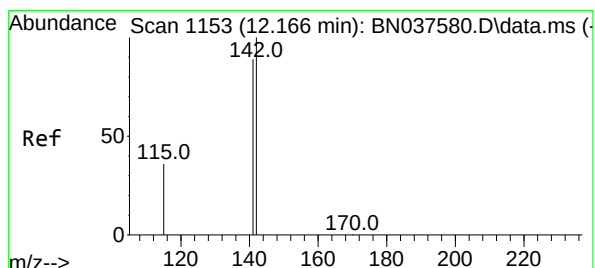
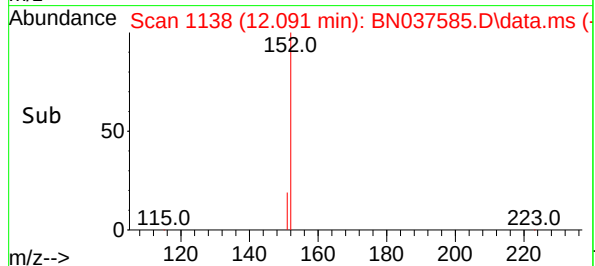
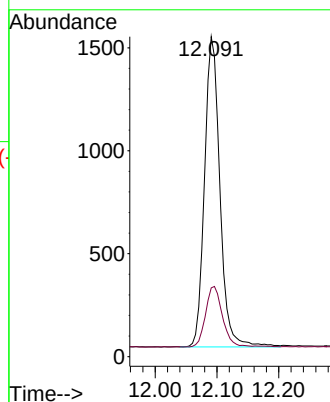
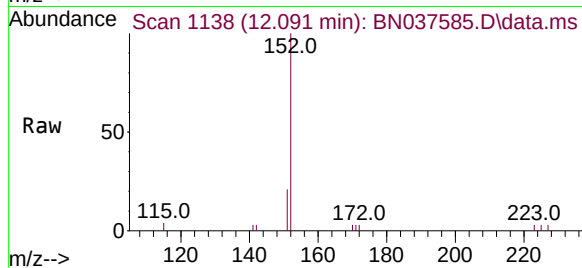




#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

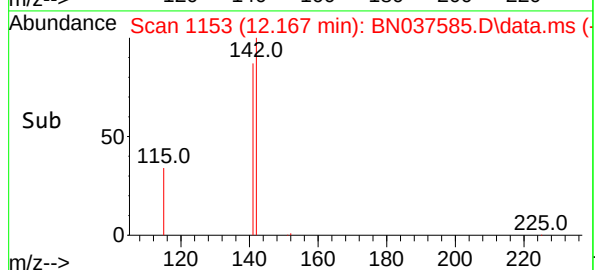
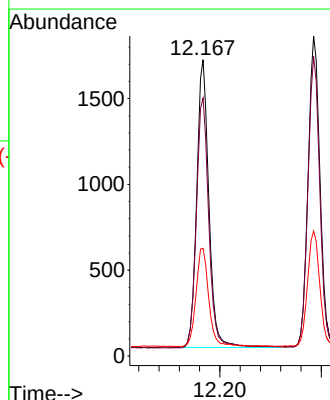
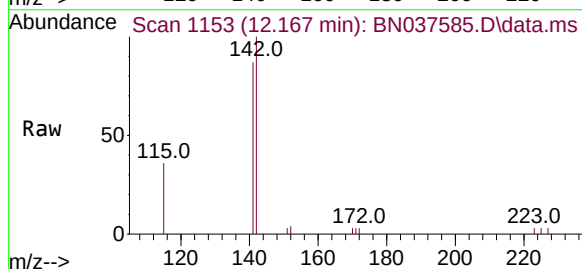
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

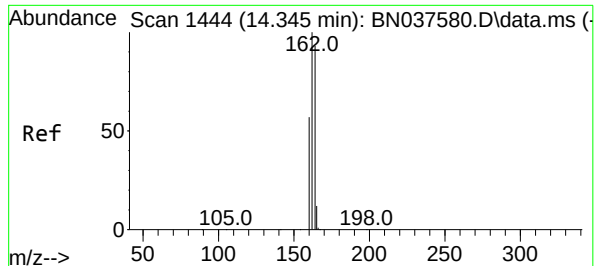
Tgt Ion:152 Resp: 2611
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.372 ng
RT: 12.167 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:142 Resp: 2809
Ion Ratio Lower Upper
142 100
141 87.0 71.4 107.0
115 36.4 30.2 45.4

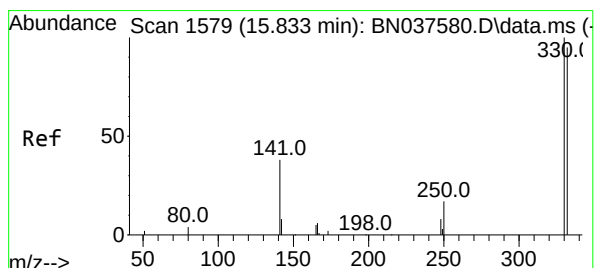
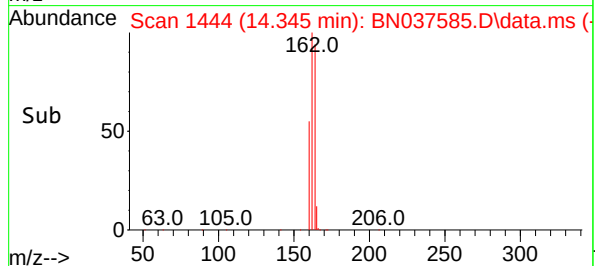
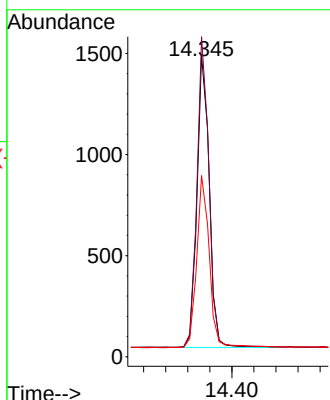
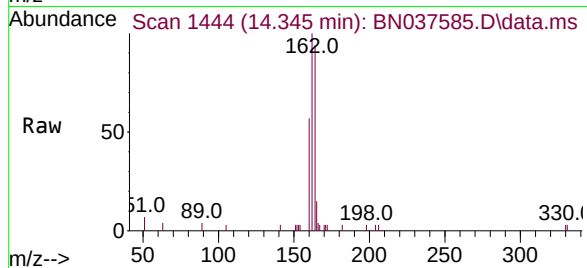




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

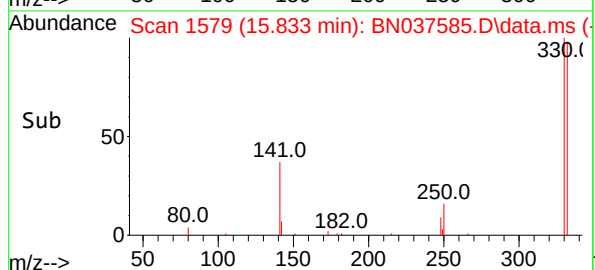
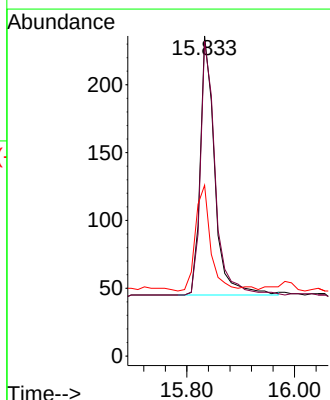
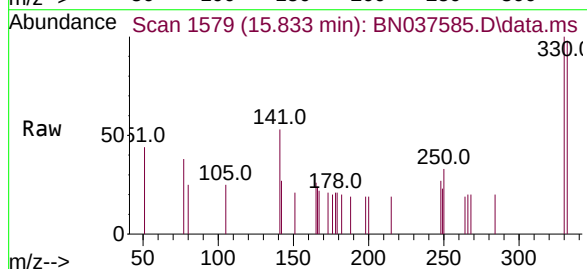
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

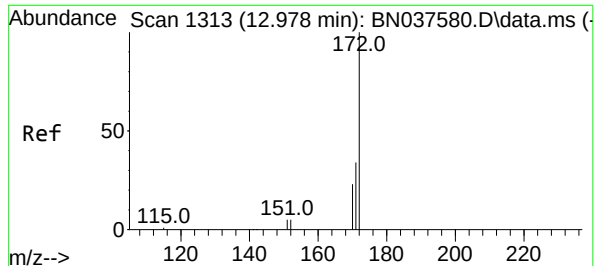
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.2	85.5	128.3
160	60.1	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.7	77.4	116.0
141	42.7	30.9	46.3

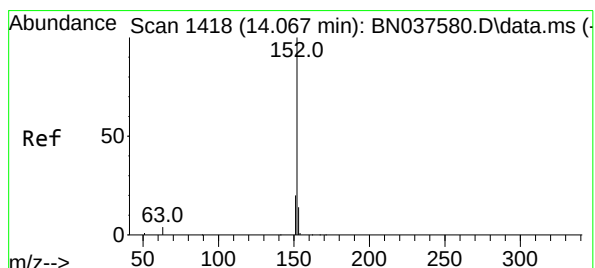
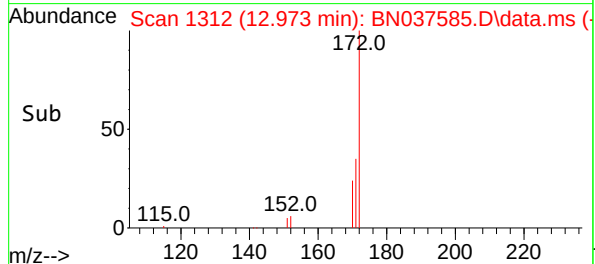
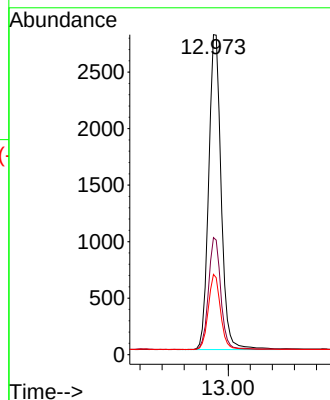
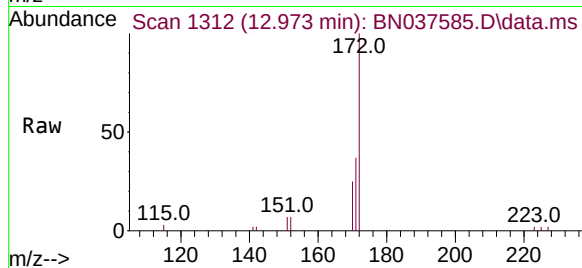




#15
2-Fluorobiphenyl
Concen: 0.443 ng
RT: 12.973 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

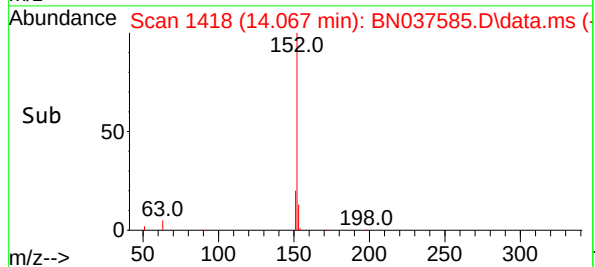
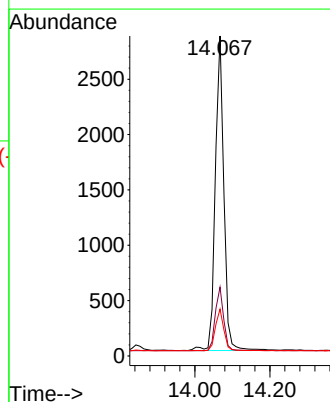
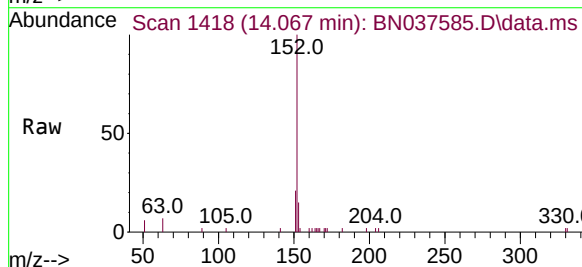
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

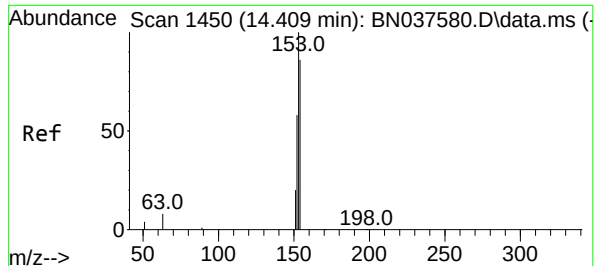
Tgt Ion:	172	Resp:	5746
Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.2	42.4
170	25.1	19.2	28.8



#16
Acenaphthylene
Concen: 0.448 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:	152	Resp:	4504
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	13.1	10.7	16.1

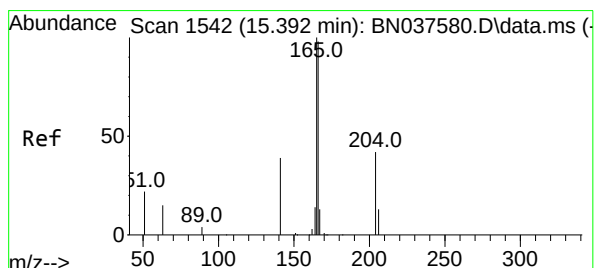
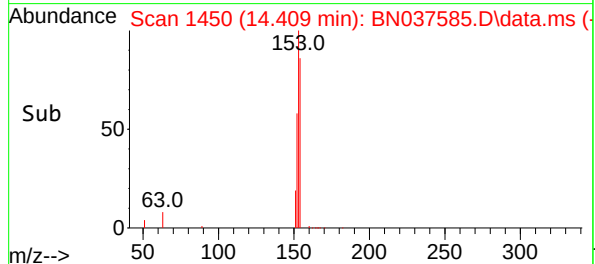
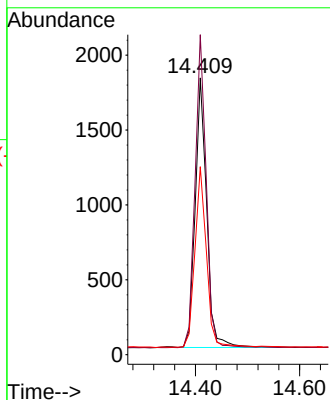
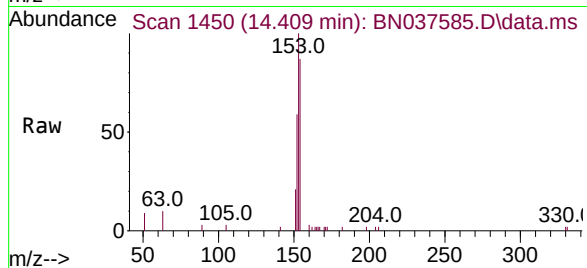




#17
Acenaphthene
Concen: 0.405 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

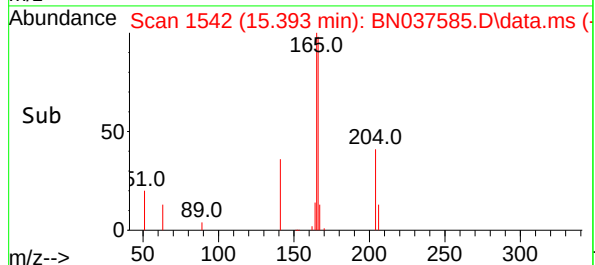
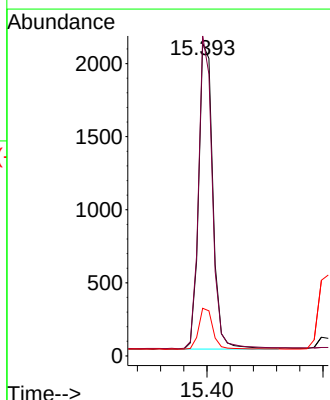
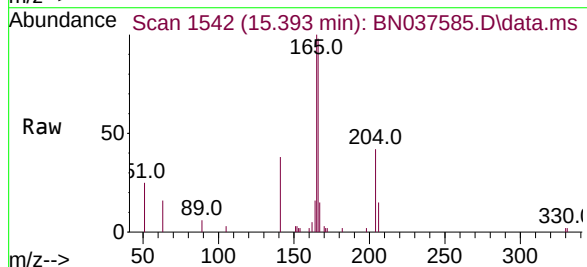
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

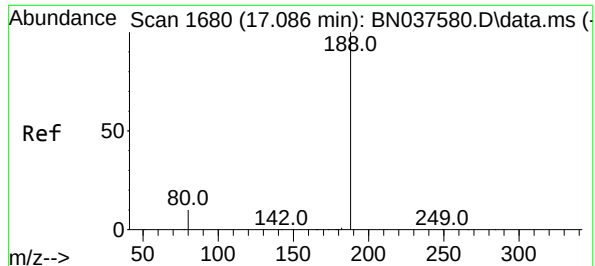
Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.4	90.6	135.8
152	67.8	54.9	82.3



#18
Fluorene
Concen: 0.402 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.0	78.9	118.3
167	14.0	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

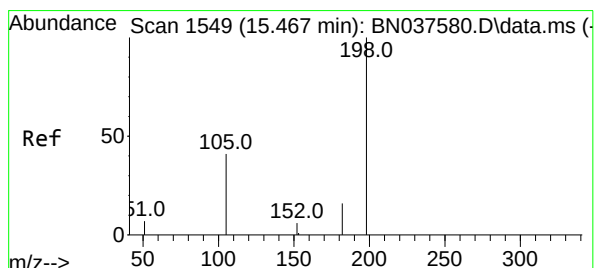
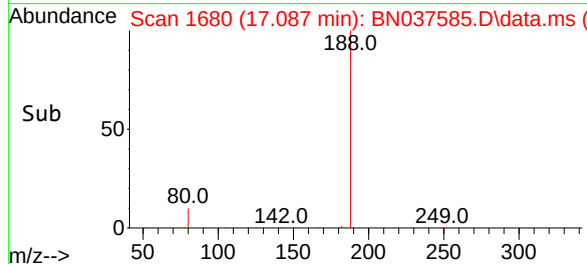
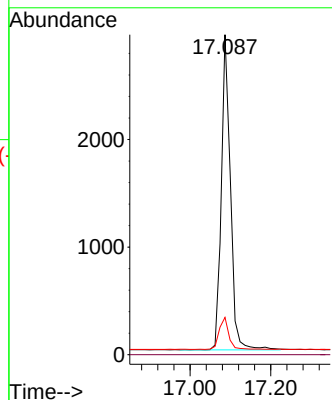
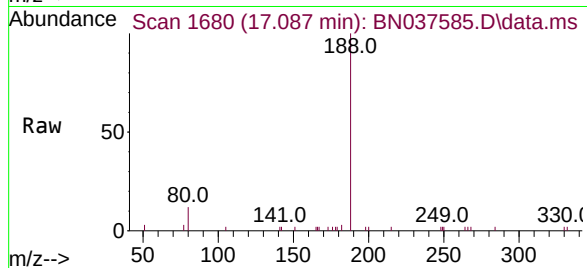
Tgt Ion:188 Resp: 4564

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.6 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

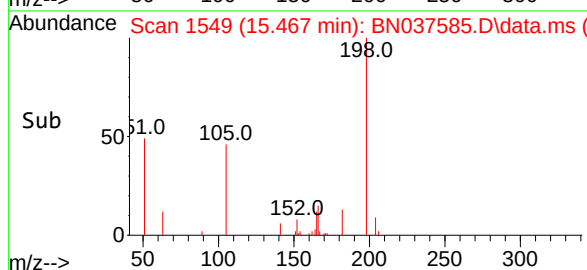
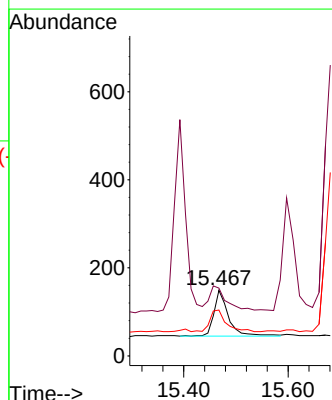
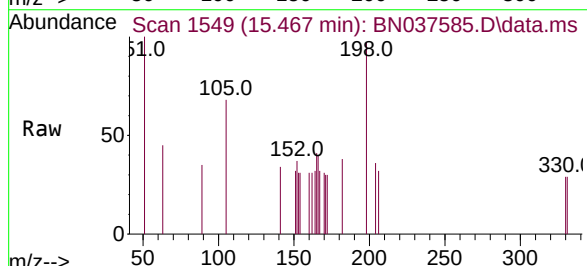
Tgt Ion:198 Resp: 209

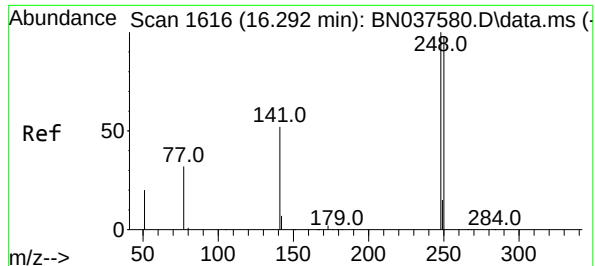
Ion Ratio Lower Upper

198 100

51 103.4 81.0 121.6

105 69.8 52.5 78.7

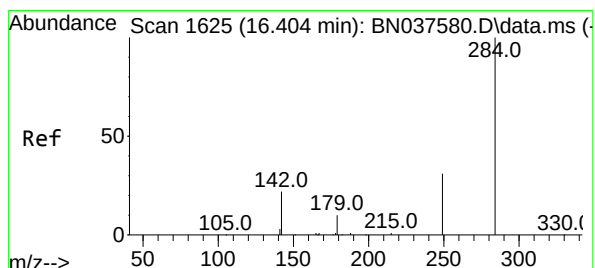
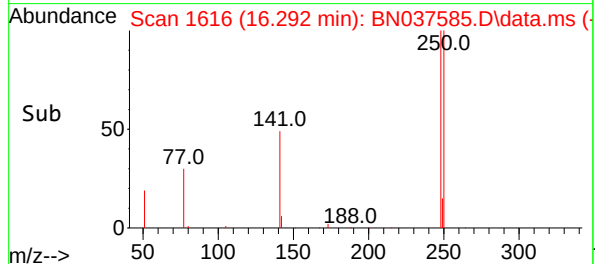
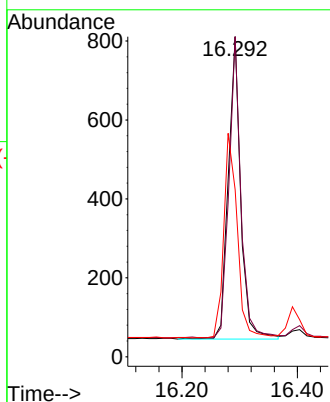
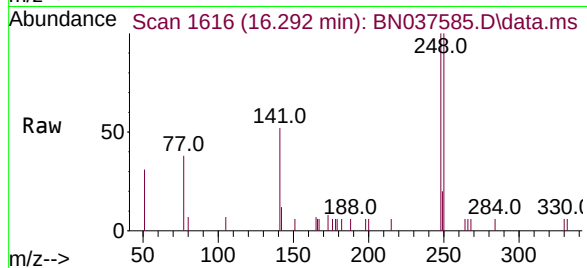




#21
4-Bromophenyl-phenylether
Concen: 0.400 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

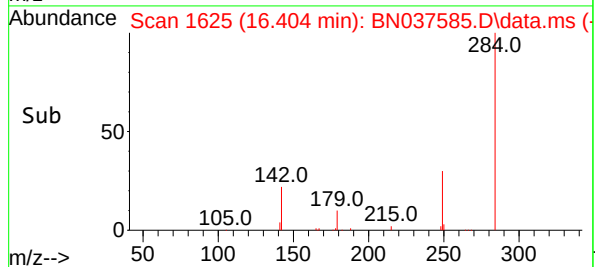
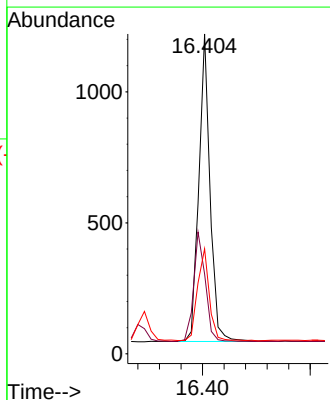
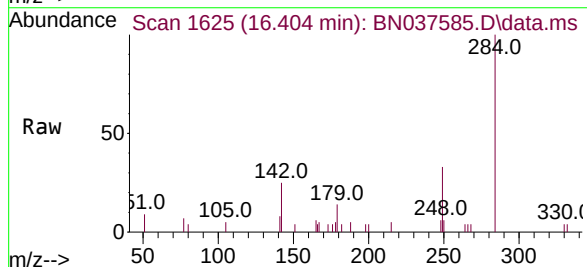
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

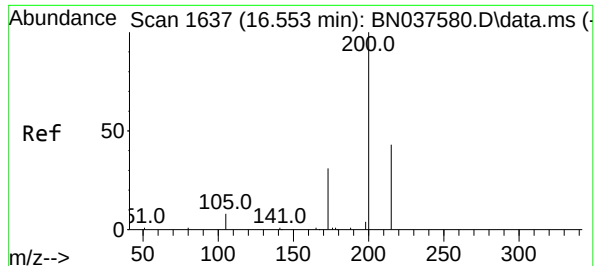
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.0	78.6	118.0
141	52.2	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.1	29.8	44.6
249	31.6	26.0	39.0





#23

Atrazine

Concen: 0.420 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

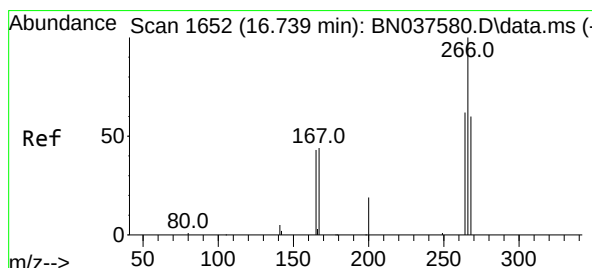
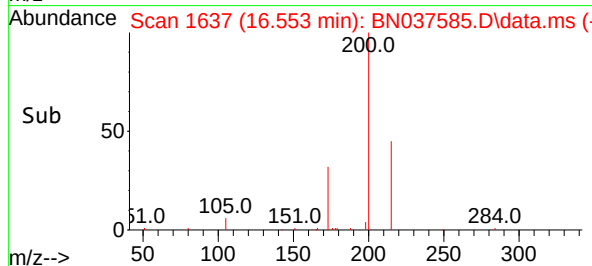
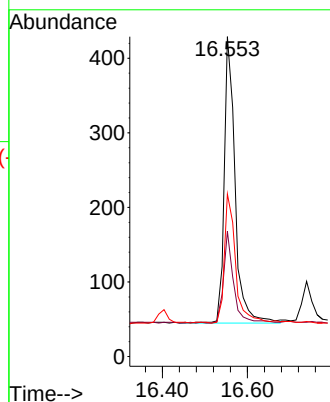
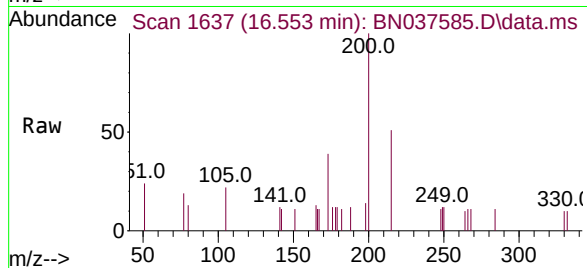
Tgt Ion:200 Resp: 681

Ion Ratio Lower Upper

200 100

173 39.2 31.0 46.4

215 50.8 39.4 59.0



#24

Pentachlorophenol

Concen: 0.339 ng

RT: 16.739 min Scan# 1652

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

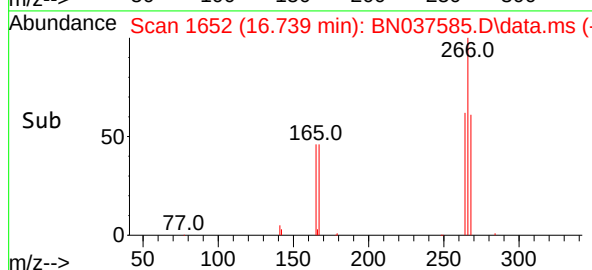
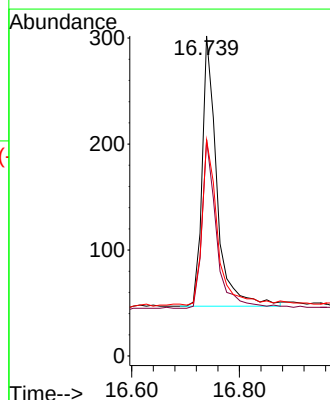
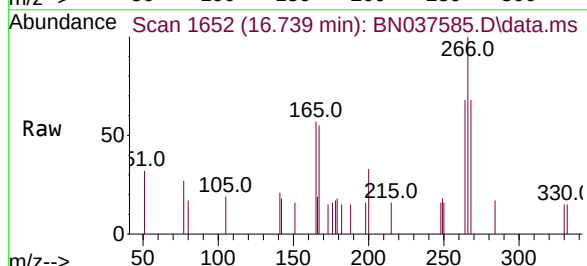
Tgt Ion:266 Resp: 484

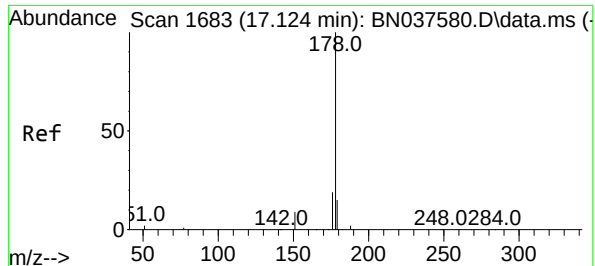
Ion Ratio Lower Upper

266 100

264 61.8 49.6 74.4

268 67.4 49.2 73.8

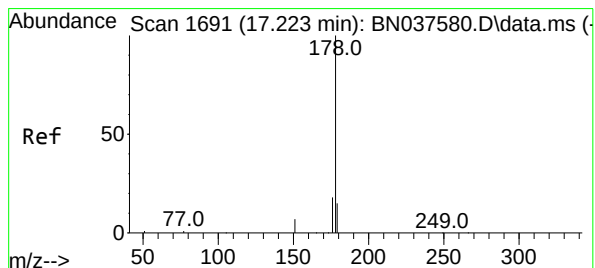
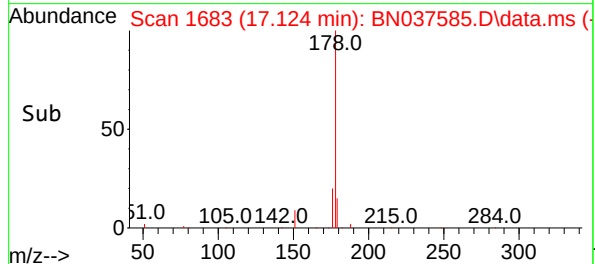
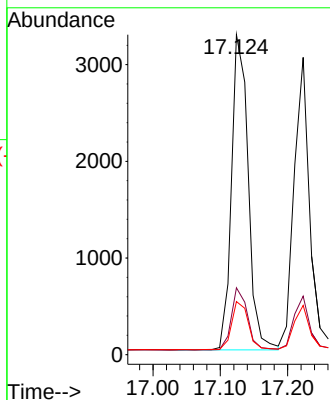
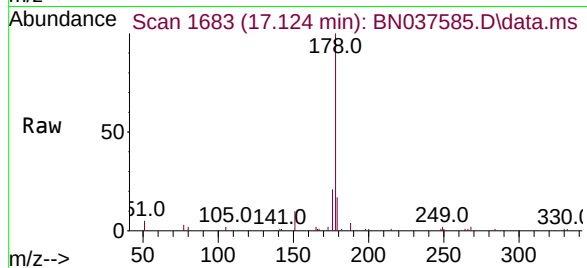




#25
Phenanthrene
Concen: 0.404 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

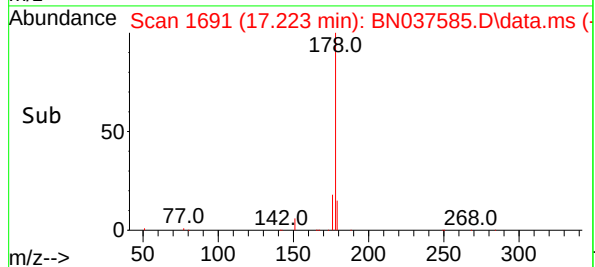
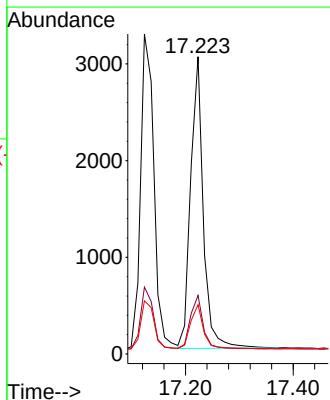
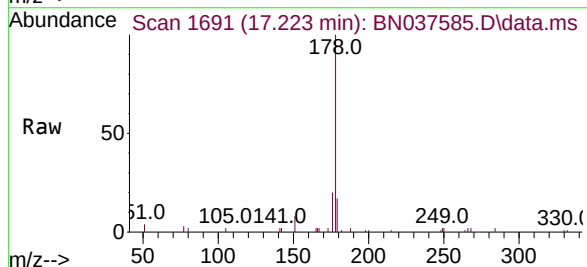
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

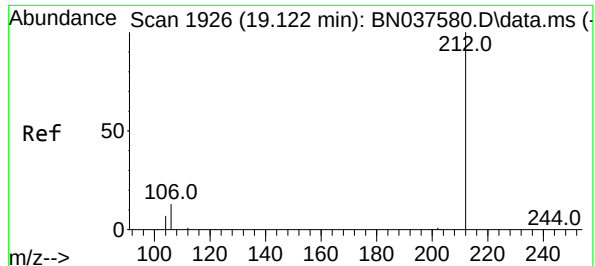
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.3	12.3	18.5



#26
Anthracene
Concen: 0.402 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	15.5	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.405 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

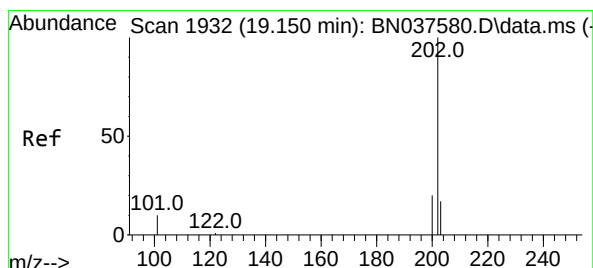
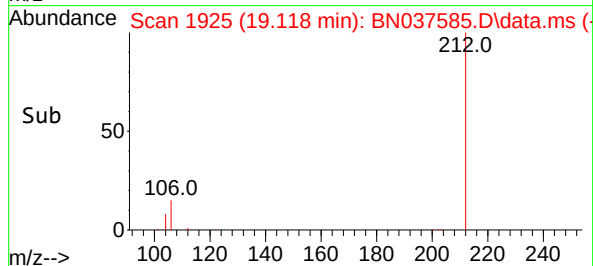
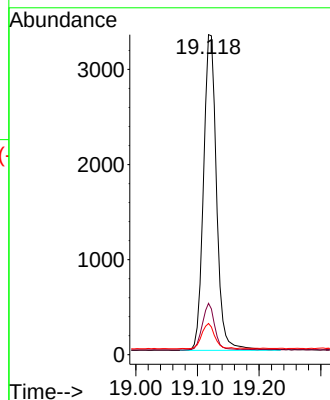
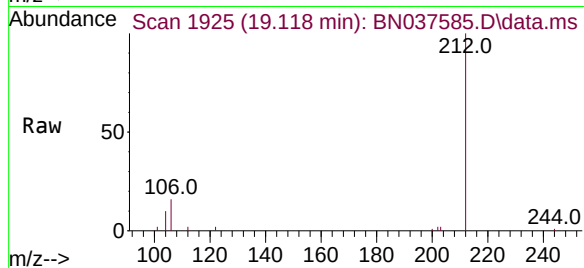
Tgt Ion:212 Resp: 4866

Ion Ratio Lower Upper

212 100

106 14.3 11.5 17.3

104 7.7 6.6 9.8



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

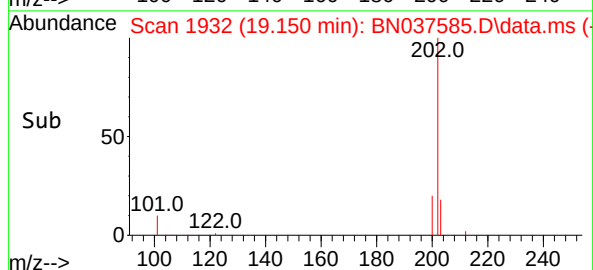
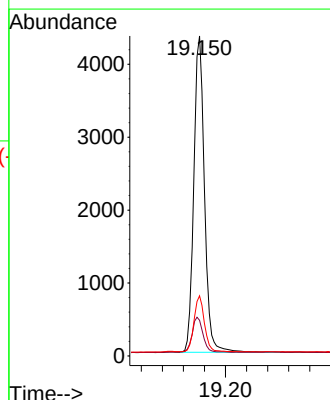
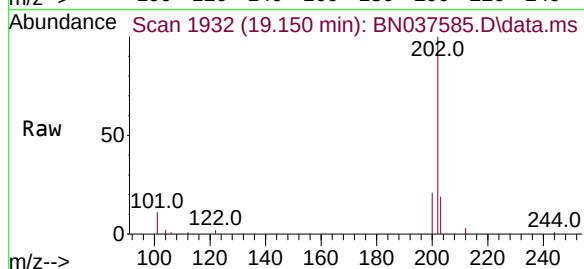
Tgt Ion:202 Resp: 6097

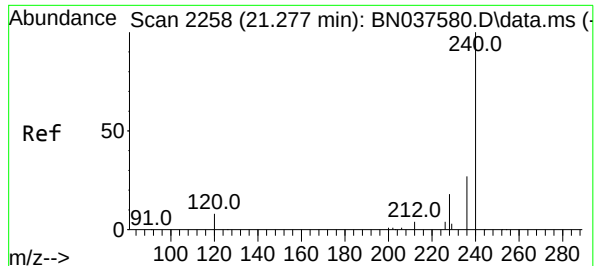
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

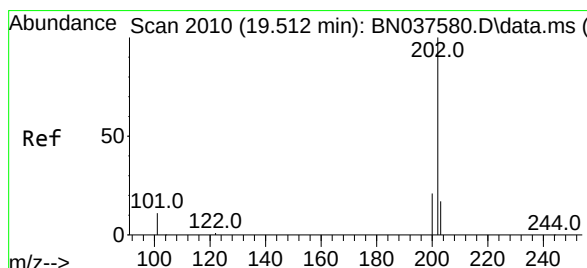
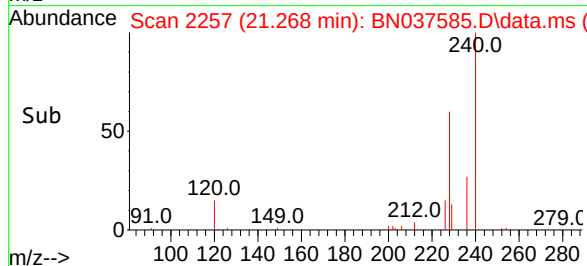
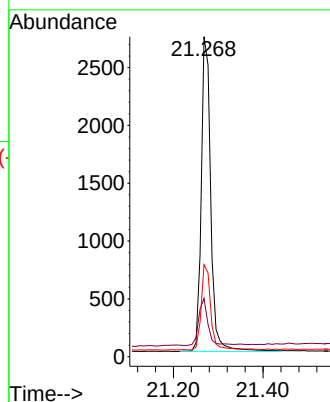
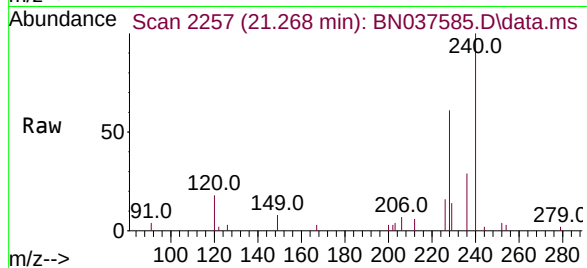
Tgt Ion:240 Resp: 4001

Ion Ratio Lower Upper

240 100

120 18.2 8.9 13.3#

236 28.8 22.6 33.8



#30

Pyrene

Concen: 0.396 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

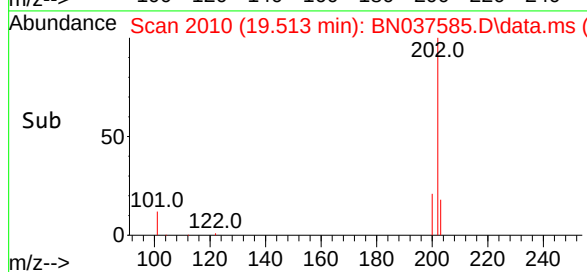
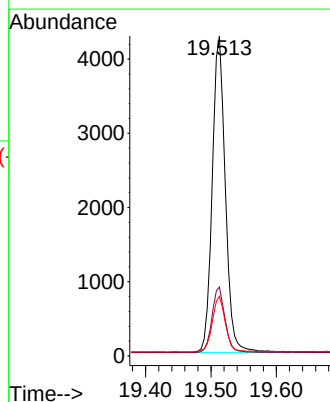
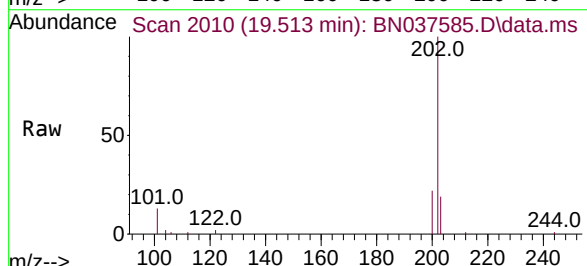
Tgt Ion:202 Resp: 5925

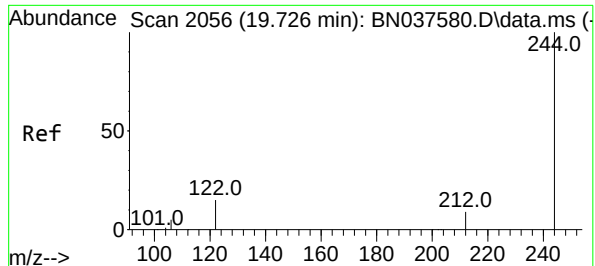
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

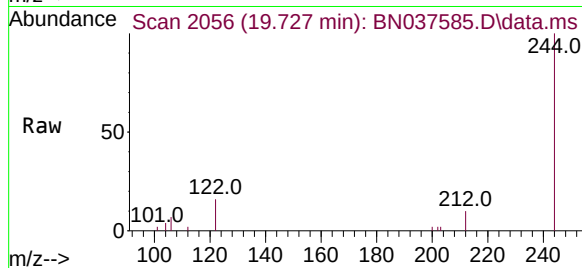
203 17.7 14.3 21.5



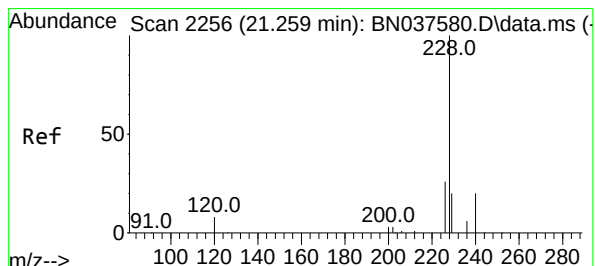
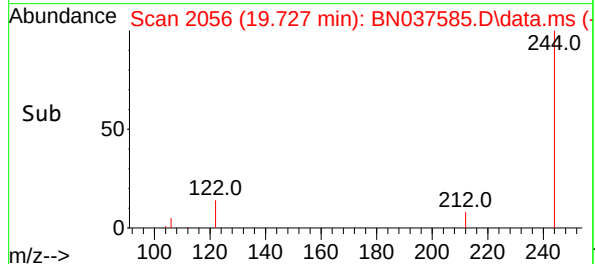
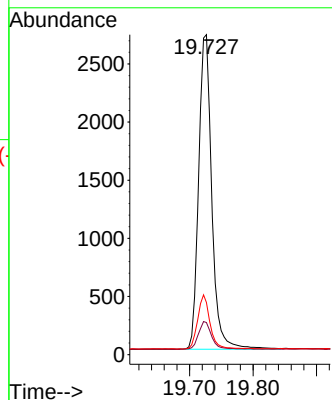


#31
Terphenyl-d14
Concen: 0.472 ng
RT: 19.727 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

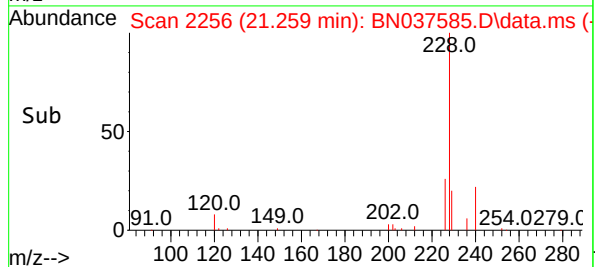
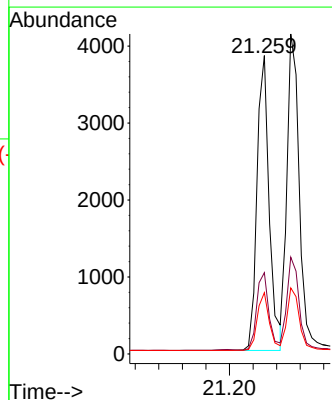
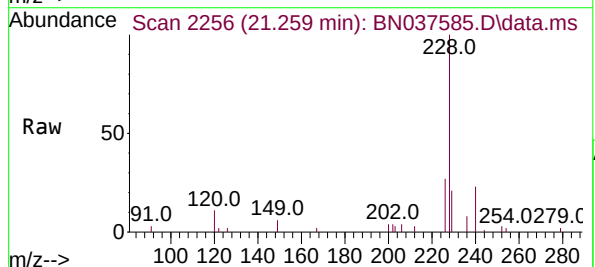


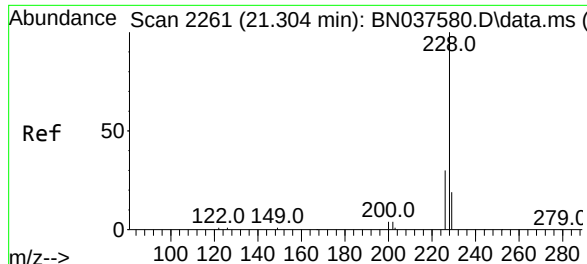
Tgt Ion:244 Resp: 3884
Ion Ratio Lower Upper
244 100
212 10.0 8.2 12.2
122 16.3 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

Tgt Ion:228 Resp: 5497
Ion Ratio Lower Upper
228 100
226 27.2 21.5 32.3
229 20.5 16.5 24.7





#33

Chrysene

Concen: 0.405 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

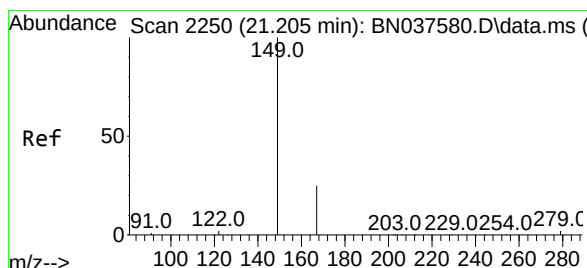
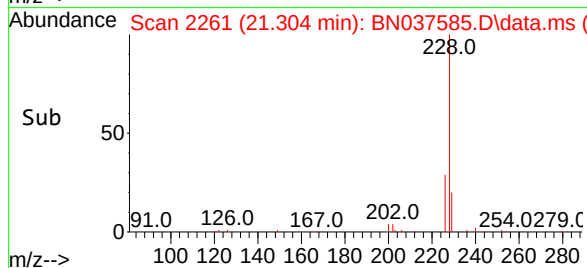
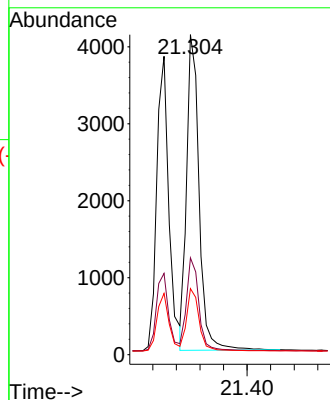
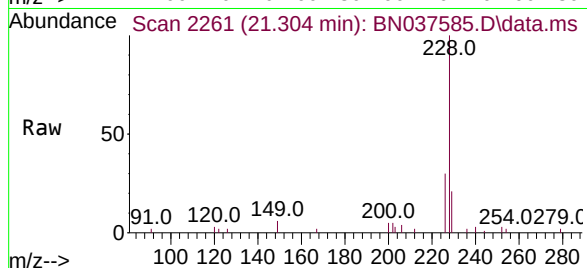
Tgt Ion:228 Resp: 6035

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 20.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.418 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

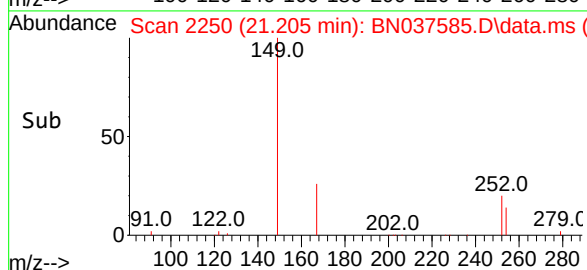
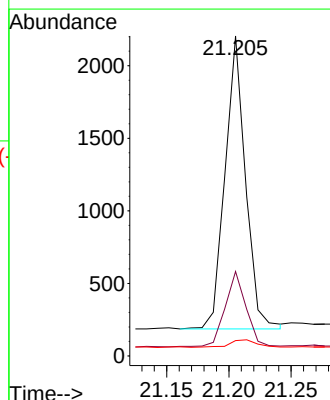
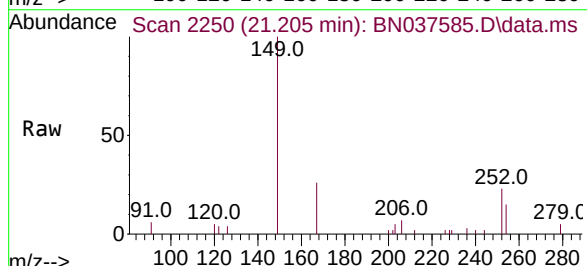
Tgt Ion:149 Resp: 2306

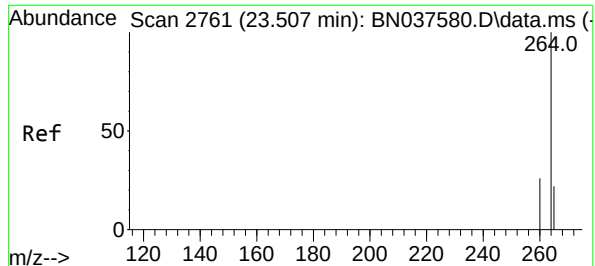
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.3 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.511 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

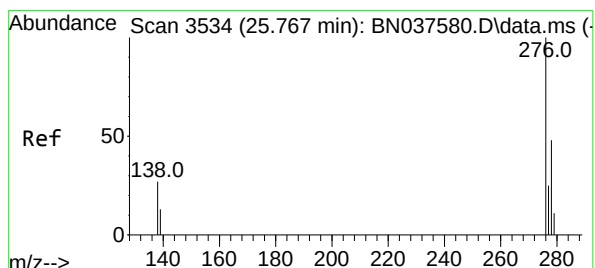
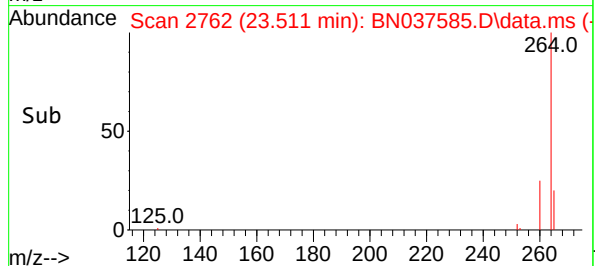
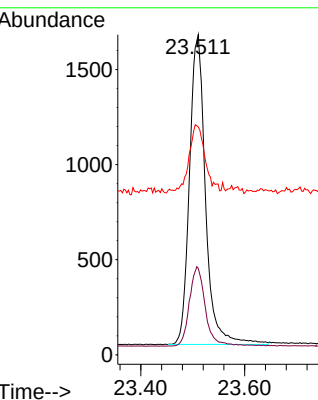
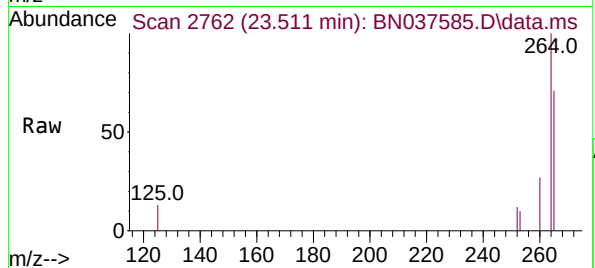
Tgt Ion:264 Resp: 3490

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 71.2 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.410 ng

RT: 25.765 min Scan# 3533

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

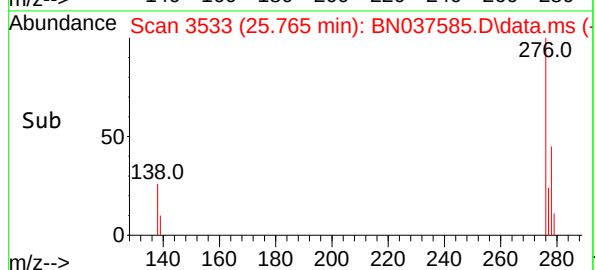
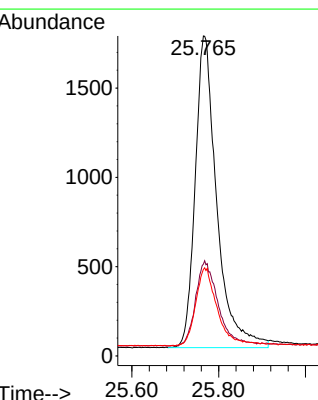
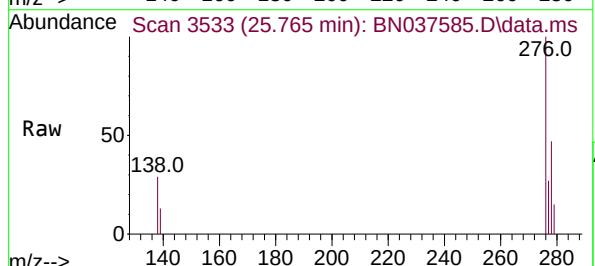
Tgt Ion:276 Resp: 6028

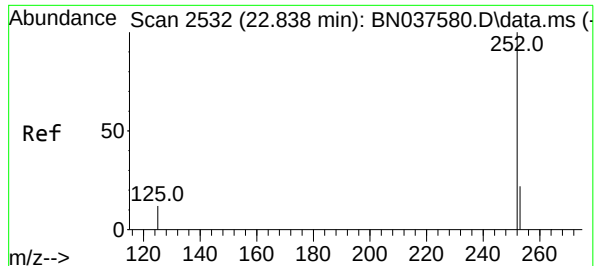
Ion Ratio Lower Upper

276 100

138 28.3 23.3 34.9

277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.409 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

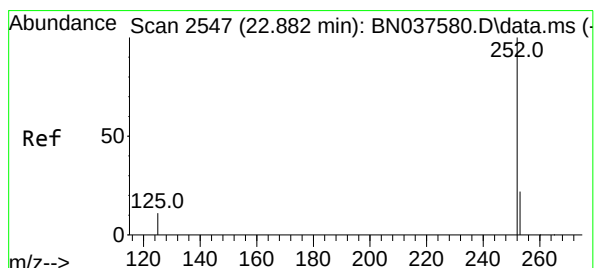
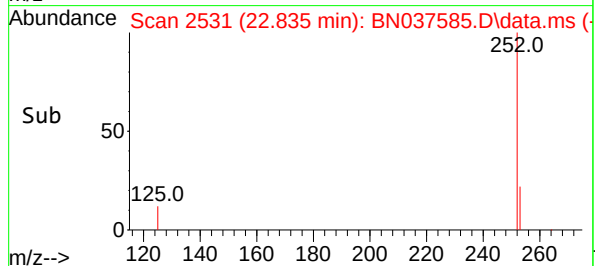
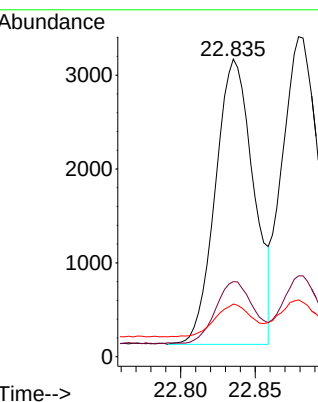
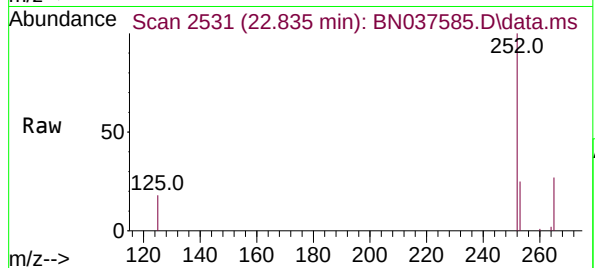
Tgt Ion:252 Resp: 5410

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

125 17.7 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

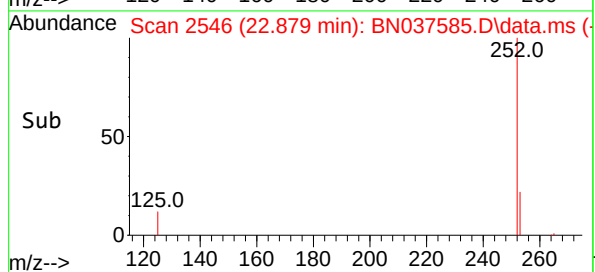
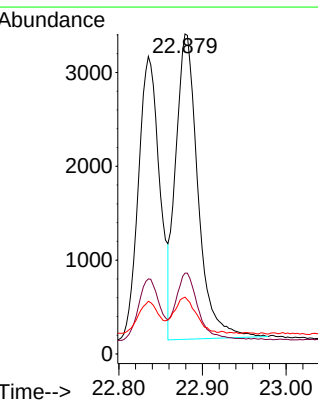
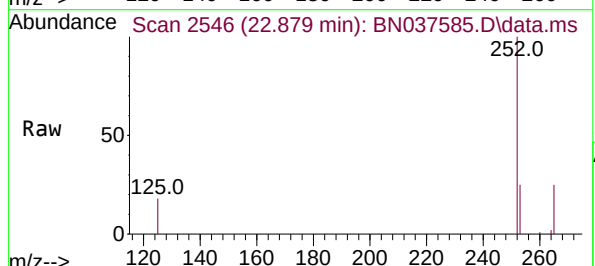
Tgt Ion:252 Resp: 6026

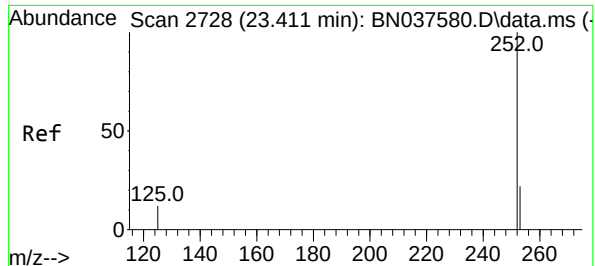
Ion Ratio Lower Upper

252 100

253 25.2 19.9 29.9

125 17.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037585.D

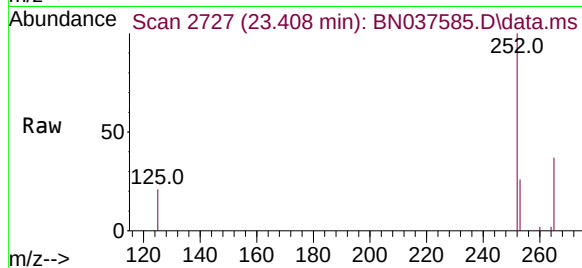
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



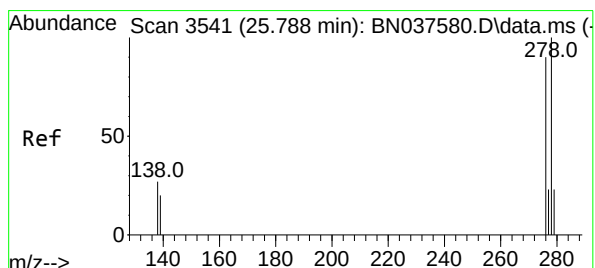
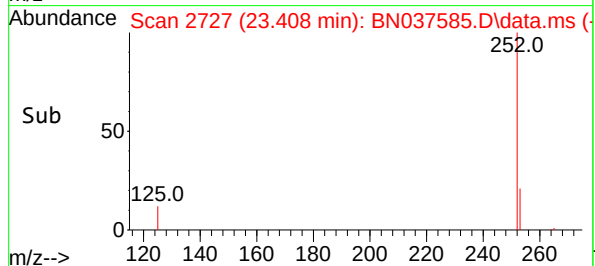
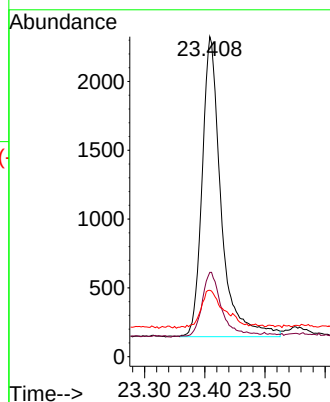
Tgt Ion:252 Resp: 4761

Ion Ratio Lower Upper

252 100

253 26.4 21.6 32.4

125 20.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.401 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

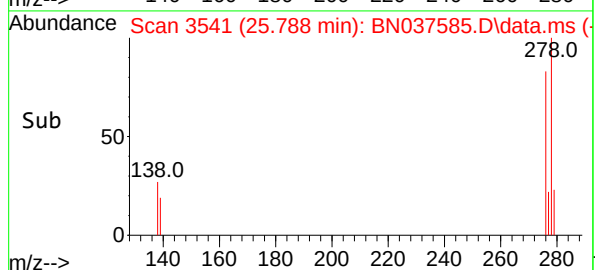
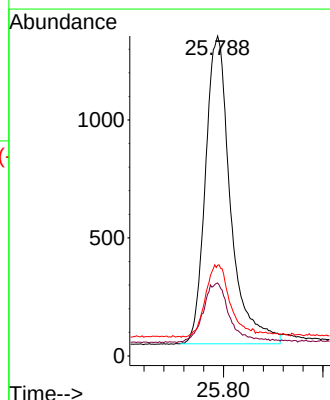
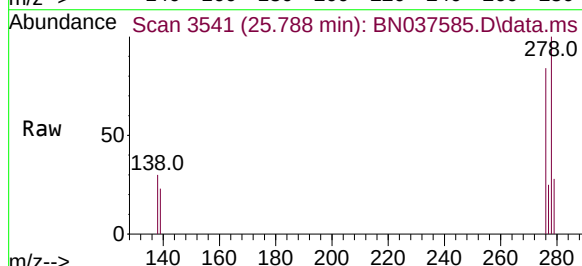
Tgt Ion:278 Resp: 4571

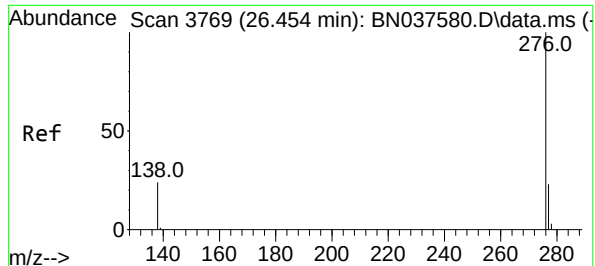
Ion Ratio Lower Upper

278 100

139 22.8 18.3 27.5

279 28.3 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.407 ng

RT: 26.458 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037585.D

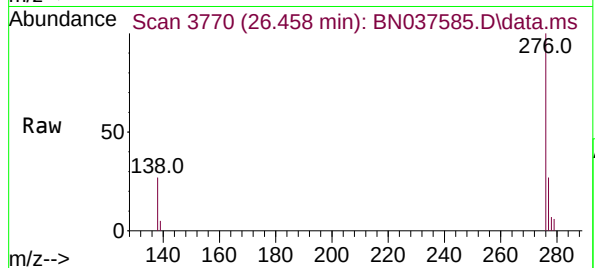
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



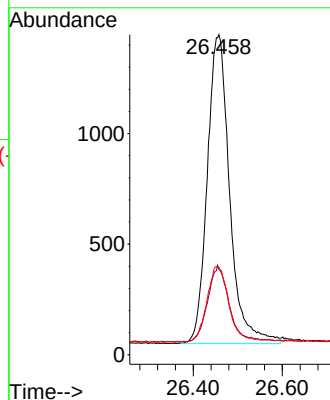
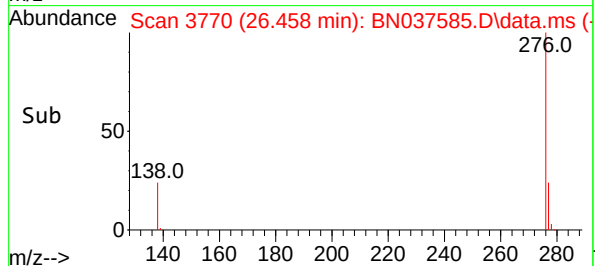
Tgt Ion:276 Resp: 4888

Ion Ratio Lower Upper

276 100

277 26.7 21.0 31.4

138 27.3 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
 Data File : BN037585.D
 Acq On : 12 Aug 2025 20:42
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081225

Quant Time: Aug 13 05:03:37 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2	1,4-Dioxane	0.383	0.481	-25.6#	107	0.00
3	n-Nitrosodimethylamine	0.489	0.570	-16.6	103	0.00
4 S	2-Fluorophenol	0.907	0.965	-6.4	96	0.00
5 S	Phenol-d6	1.091	1.228	-12.6	103	0.00
6	bis(2-Chloroethyl)ether	0.983	1.077	-9.6	97	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	88	0.00
8 S	Nitrobenzene-d5	0.282	0.312	-10.6	104	0.00
9	Naphthalene	1.065	1.104	-3.7	94	0.00
10	Hexachlorobutadiene	0.260	0.279	-7.3	93	0.00
11 SURR	2-Methylnaphthalene-d10	0.544	0.578	-6.2	100	0.00
12	2-Methylnaphthalene	0.668	0.622	6.9	86	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.175	0.160	8.6	90	0.00
15 S	2-Fluorobiphenyl	2.313	2.564	-10.9	99	0.00
16	Acenaphthylene	1.793	2.010	-12.1	104	0.00
17	Acenaphthene	1.220	1.235	-1.2	93	0.00
18	Fluorene	1.596	1.603	-0.4	93	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.046	13.2	90	0.00
21	4-Bromophenyl-phenylether	0.251	0.251	0.0	97	0.00
22	Hexachlorobenzene	0.356	0.373	-4.8	95	0.00
23	Atrazine	0.142	0.149	-4.9	104	0.00
24	Pentachlorophenol	0.125	0.106	15.2	85	0.00
25	Phenanthrene	1.216	1.230	-1.2	95	0.00
26	Anthracene	1.077	1.082	-0.5	99	0.00
27 SURR	Fluoranthene-d10	1.052	1.066	-1.3	101	0.00
28	Fluoranthene	1.397	1.336	4.4	93	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.495	1.481	0.9	94	0.00
31 S	Terphenyl-d14	0.823	0.971	-18.0	113	0.00
32	Benzo(a)anthracene	1.336	1.374	-2.8	101	0.00
33	Chrysene	1.489	1.508	-1.3	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.576	-4.5	102	0.00
35 I	Perylene-d12	1.000	1.000	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.727	-2.4	89	0.00
37	Benzo(b)fluoranthene	1.516	1.550	-2.2	97	0.00
38	Benzo(k)fluoranthene	1.710	1.727	-1.0	87	0.00
39 C	Benzo(a)pyrene	1.257	1.364	-8.5	99	0.00
40	Dibenzo(a,h)anthracene	1.308	1.310	-0.2	89	0.00
41	Benzo(g,h,i)perylene	1.378	1.401	-1.7	93	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037585.D
Acq On : 12 Aug 2025 20:42
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

Quant Time: Aug 13 05:03:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	88	0.00
2	1,4-Dioxane	0.400	0.502	-25.5#	107	0.00
3	n-Nitrosodimethylamine	0.400	0.466	-16.5	103	0.00
4 S	2-Fluorophenol	0.400	0.426	-6.5	96	0.00
5 S	Phenol-d6	0.400	0.450	-12.5	103	0.00
6	bis(2-Chloroethyl)ether	0.400	0.438	-9.5	97	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	88	0.00
8 S	Nitrobenzene-d5	0.400	0.443	-10.7	104	0.00
9	Naphthalene	0.400	0.415	-3.7	94	0.00
10	Hexachlorobutadiene	0.400	0.429	-7.2	93	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.425	-6.2	100	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	86	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.443	-10.7	99	0.00
16	Acenaphthylene	0.400	0.448	-12.0	104	0.00
17	Acenaphthene	0.400	0.405	-1.3	93	0.00
18	Fluorene	0.400	0.402	-0.5	93	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	91	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.433	-8.2	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.400	0.0	97	0.00
22	Hexachlorobenzene	0.400	0.419	-4.7	95	0.00
23	Atrazine	0.400	0.420	-5.0	104	0.00
24	Pentachlorophenol	0.400	0.339	15.3	85	0.00
25	Phenanthrene	0.400	0.404	-1.0	95	0.00
26	Anthracene	0.400	0.402	-0.5	99	0.00
27 SURR	Fluoranthene-d10	0.400	0.405	-1.3	101	0.00
28	Fluoranthene	0.400	0.382	4.5	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.396	1.0	94	0.00
31 S	Terphenyl-d14	0.400	0.472	-18.0	113	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	101	0.00
33	Chrysene	0.400	0.405	-1.3	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.418	-4.5	102	0.00
35 I	Perylene-d12	0.400	0.400	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.410	-2.5	89	0.00
37	Benzo(b)fluoranthene	0.400	0.409	-2.2	97	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	87	0.00
39 C	Benzo(a)pyrene	0.400	0.434	-8.5	99	0.00
40	Dibenzo(a,h)anthracene	0.400	0.401	-0.3	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.407	-1.7	93	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: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2881
 Instrument ID: BNA_N Calibration Date/Time: 08/19/2025 10:39
 Lab File ID: BN037600.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.498		-8.5	20.0
Fluoranthene-d10	1.052	0.957		-9.0	20.0
2-Fluorophenol	0.907	0.907		0.0	20.0
Phenol-d6	1.091	1.078		-1.2	20.0
Nitrobenzene-d5	0.282	0.275		-2.5	20.0
2-Fluorobiphenyl	2.313	2.186		-5.5	20.0
2,4,6-Tribromophenol	0.175	0.169		-3.4	20.0
Terphenyl-d14	0.823	0.796		-3.3	20.0
1,4-Dioxane	0.383	0.406		6.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037600.D
 Acq On : 19 Aug 2025 10:39
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Aug 20 01:24:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

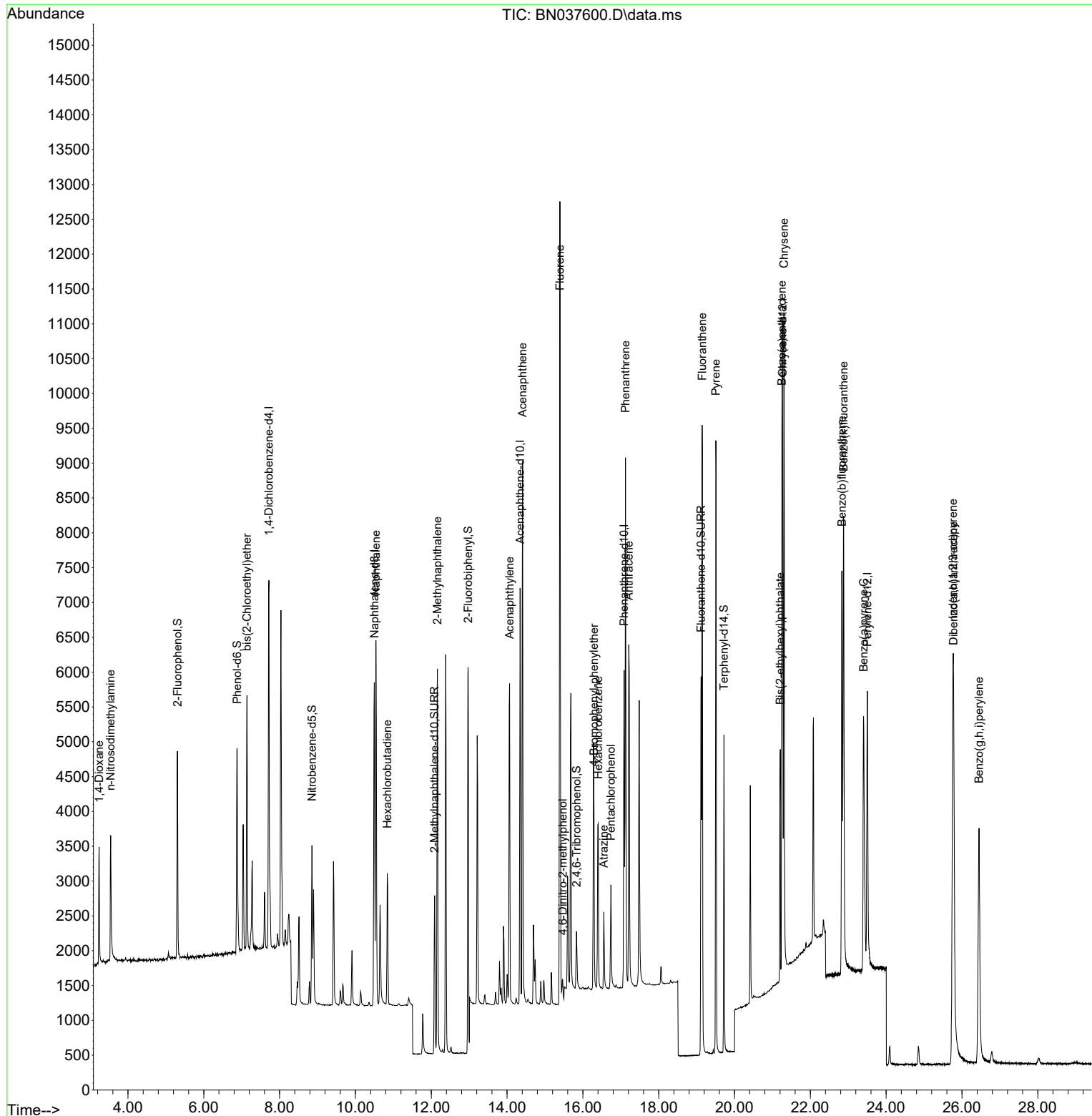
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2628	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6457	0.400	ng	# 0.00
13) Acenaphthene-d10	14.344	164	3216	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	6293	0.400	ng	0.00
29) Chrysene-d12	21.267	240	5356	0.400	ng	# 0.00
35) Perylene-d12	23.504	264	5379	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.304	112	2384	0.400	ng	0.00
5) Phenol-d6	6.879	99	2834	0.395	ng	0.00
8) Nitrobenzene-d5	8.853	82	1778	0.391	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	3215	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.832	330	542	0.385	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	7030	0.378	ng	0.00
27) Fluoranthene-d10	19.117	212	6023	0.364	ng	0.00
31) Terphenyl-d14	19.721	244	4265	0.387	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1066	0.424	ng	98
3) n-Nitrosodimethylamine	3.542	42	1257	0.391	ng	# 93
6) bis(2-Chloroethyl)ether	7.139	93	2636	0.408	ng	98
9) Naphthalene	10.540	128	6800	0.396	ng	99
10) Hexachlorobutadiene	10.839	225	1625	0.387	ng	# 100
12) 2-Methylnaphthalene	12.161	142	4129	0.383	ng	98
16) Acenaphthylene	14.066	152	5461	0.379	ng	100
17) Acenaphthene	14.408	154	3757	0.383	ng	99
18) Fluorene	15.392	166	4853	0.378	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	277	0.423	ng	97
21) 4-Bromophenyl-phenylether	16.292	248	1480	0.374	ng	# 92
22) Hexachlorobenzene	16.403	284	2223	0.397	ng	99
23) Atrazine	16.552	200	882	0.394	ng	95
24) Pentachlorophenol	16.738	266	775	0.394	ng	97
25) Phenanthrene	17.123	178	7452	0.390	ng	100
26) Anthracene	17.210	178	6342	0.374	ng	99
28) Fluoranthene	19.145	202	8237	0.375	ng	99
30) Pyrene	19.508	202	8114	0.405	ng	100
32) Benzo(a)anthracene	21.250	228	6833	0.382	ng	98
33) Chrysene	21.303	228	8075	0.405	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	2987	0.405	ng	99
36) Indeno(1,2,3-cd)pyrene	25.761	276	8634	0.381	ng	98
37) Benzo(b)fluoranthene	22.832	252	7289	0.358	ng	99
38) Benzo(k)fluoranthene	22.876	252	8761	0.381	ng	99
39) Benzo(a)pyrene	23.405	252	6262	0.370	ng	99
40) Dibenzo(a,h)anthracene	25.779	278	6490	0.369	ng	99
41) Benzo(g,h,i)perylene	26.448	276	7193	0.388	ng	99

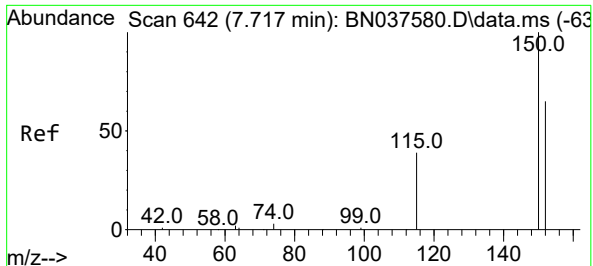
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037600.D
Acq On : 19 Aug 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

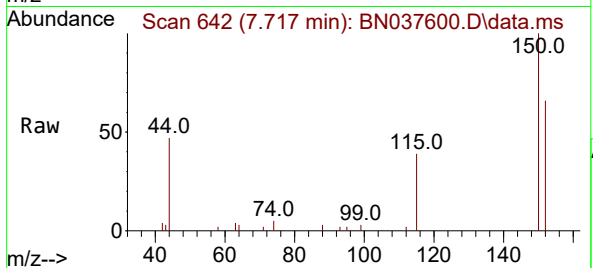
Quant Time: Aug 20 01:24:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



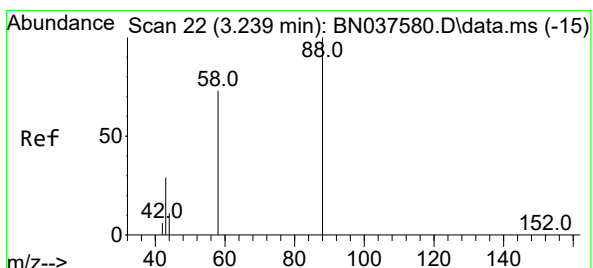
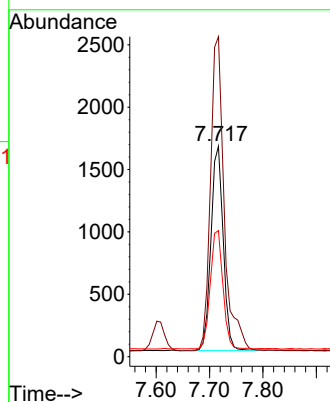
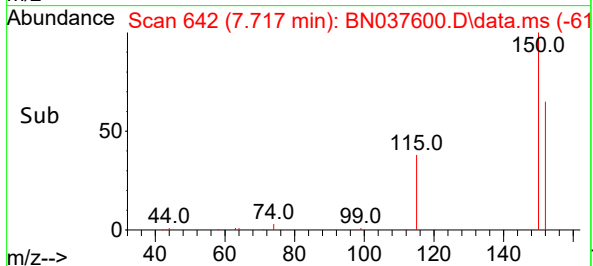


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

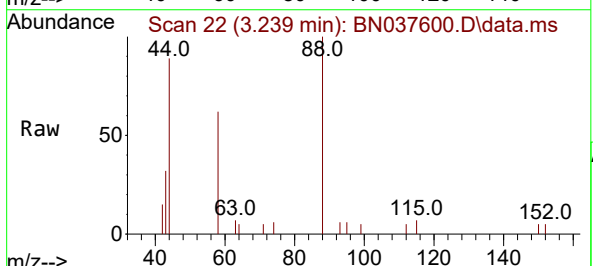
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



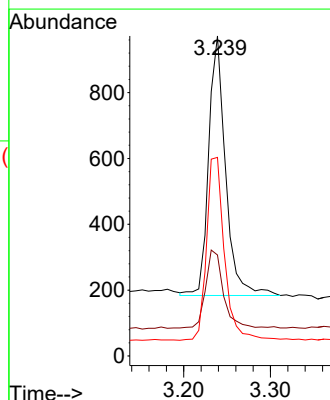
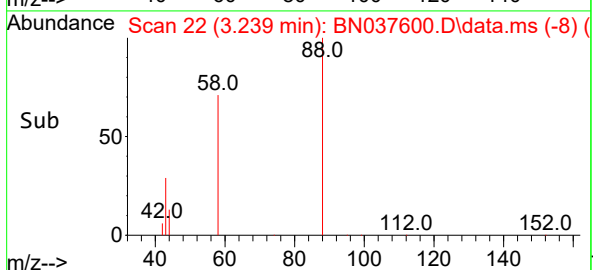
Tgt Ion: 152 Resp: 2628
Ion Ratio Lower Upper
152 100
150 152.1 122.2 183.4
115 59.9 49.8 74.6

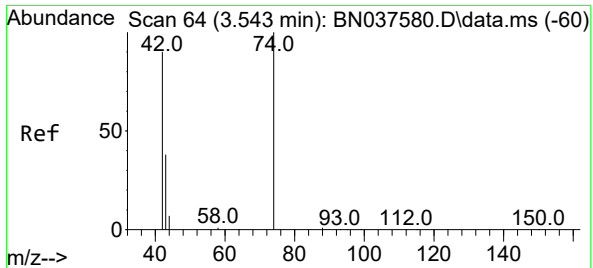


#2
1,4-Dioxane
Concen: 0.424 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39



Tgt Ion: 88 Resp: 1066
Ion Ratio Lower Upper
88 100
43 31.4 25.8 38.6
58 74.8 61.2 91.8

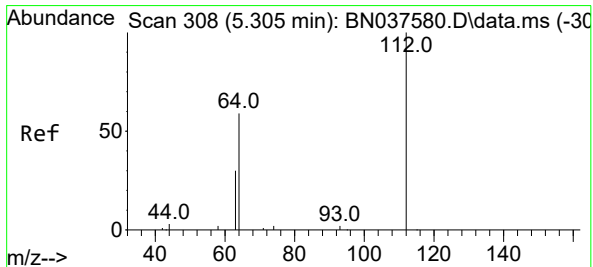
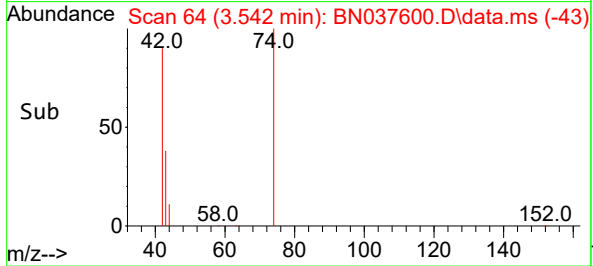
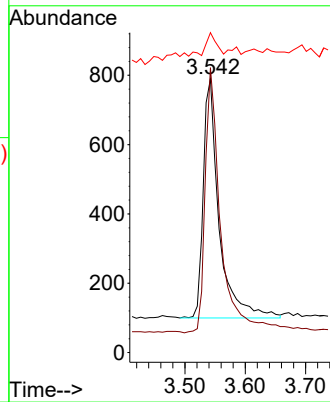
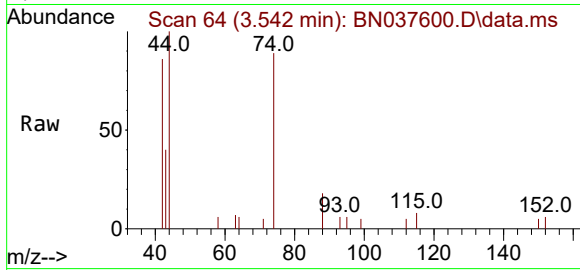




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.542 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

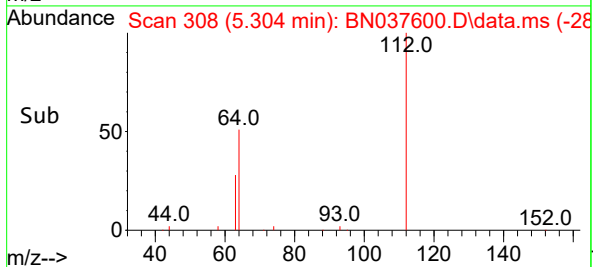
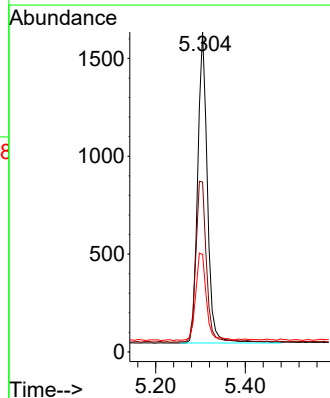
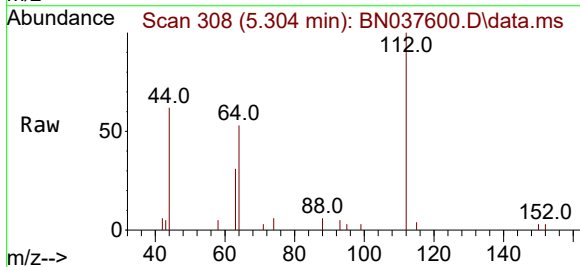
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

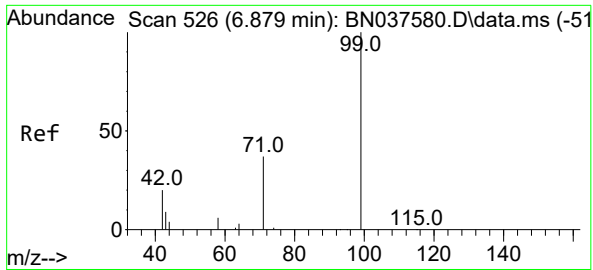
Tgt Ion: 42 Resp: 1257
Ion Ratio Lower Upper
42 100
74 109.4 82.0 123.0
44 6.0 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.400 ng
RT: 5.304 min Scan# 308
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion: 112 Resp: 2384
Ion Ratio Lower Upper
112 100
64 55.9 44.9 67.3
63 31.0 23.4 35.2

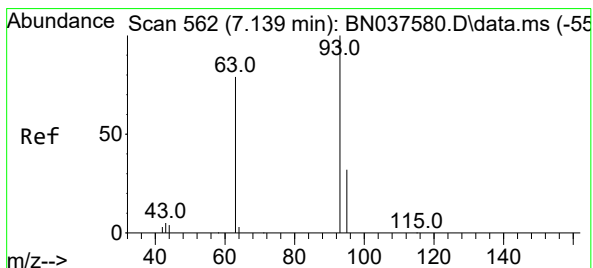
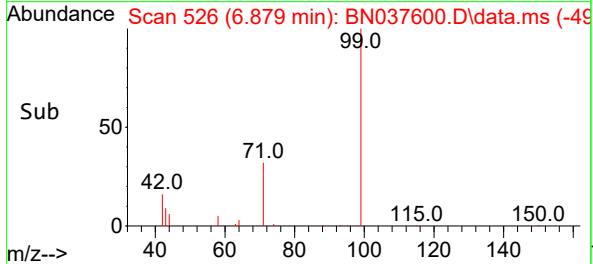
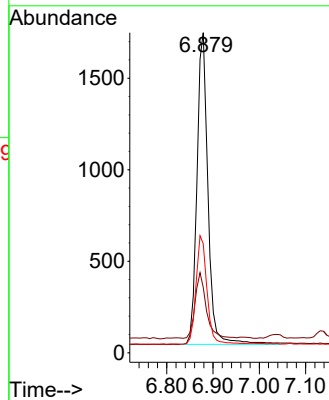
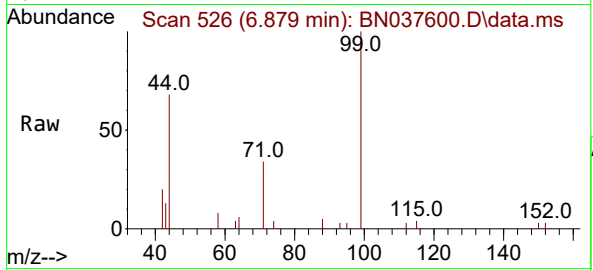




#5
Phenol-d6
Concen: 0.395 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

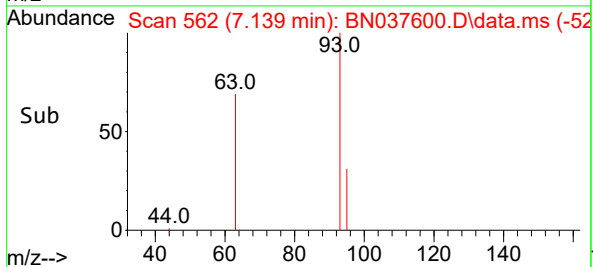
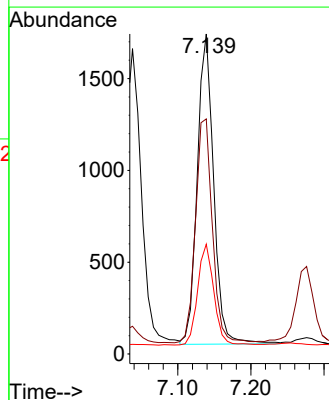
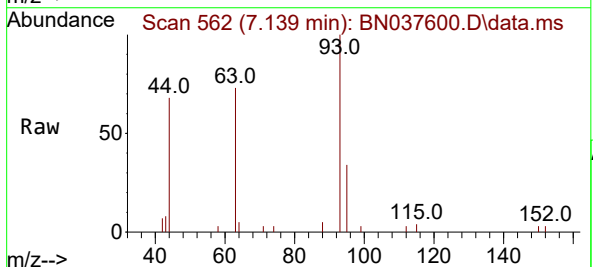
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

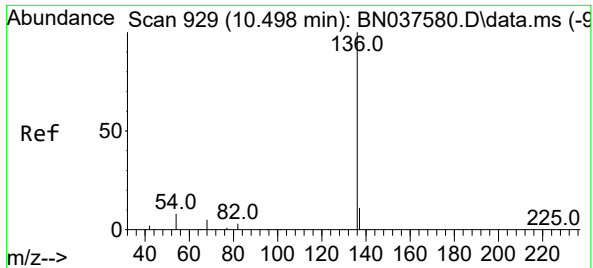
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.3	18.5	27.7
71	34.5	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion	Ratio	Lower	Upper
93	100		
63	73.9	58.0	87.0
95	32.0	24.9	37.3

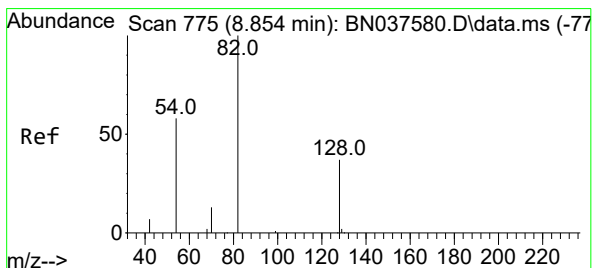
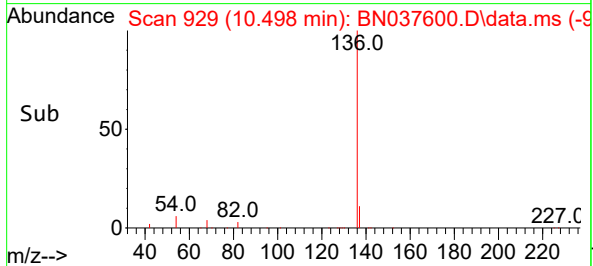
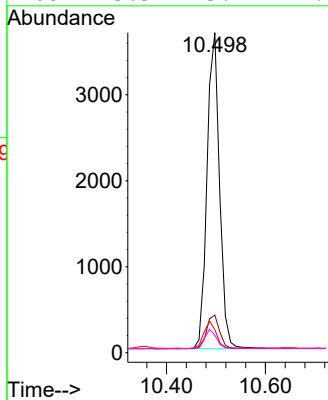
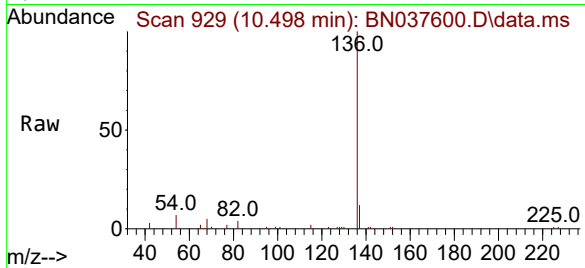




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

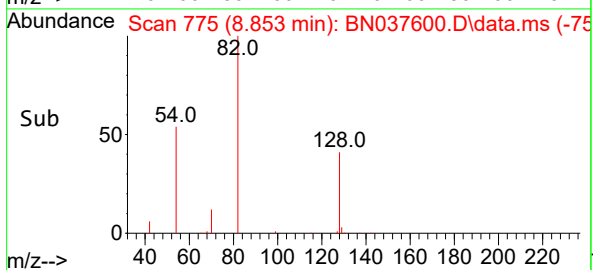
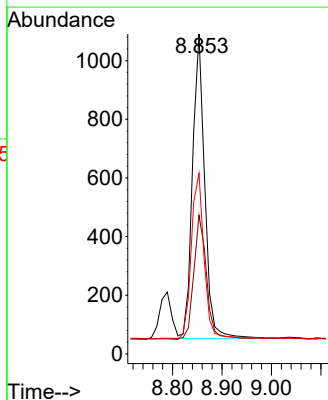
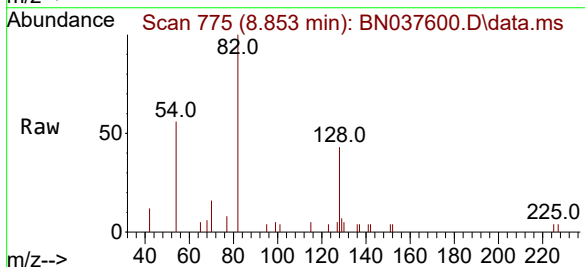
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

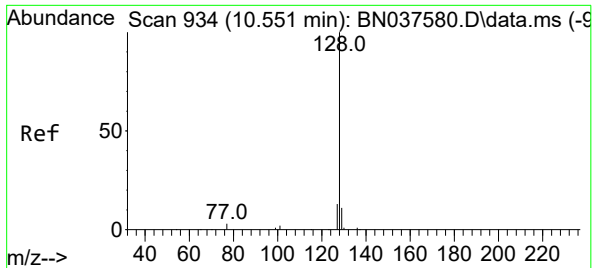
Tgt Ion:	136	Resp:	6457
Ion	Ratio	Lower	Upper
136	100		
137	11.7	9.5	14.3
54	7.2	7.3	10.9#
68	5.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.853 min Scan# 775
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion:	82	Resp:	1778
Ion	Ratio	Lower	Upper
82	100		
128	43.4	32.6	48.8
54	56.5	48.9	73.3

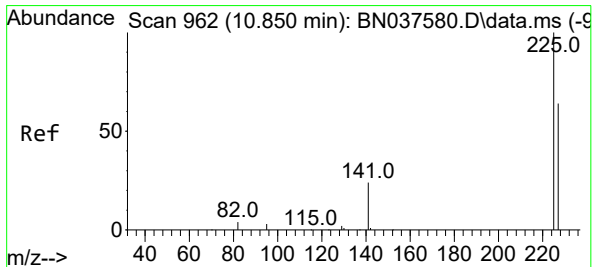
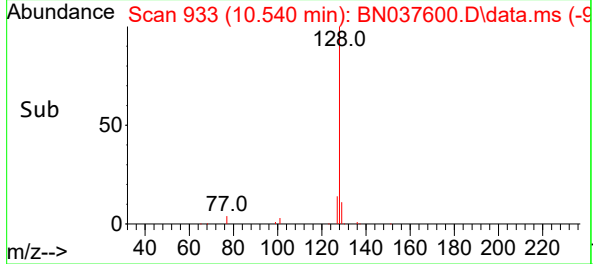
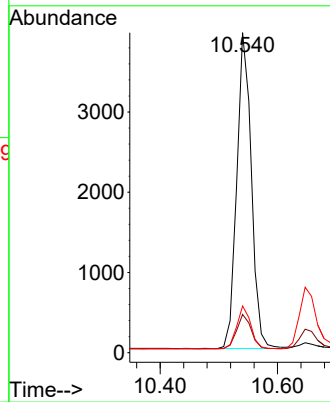
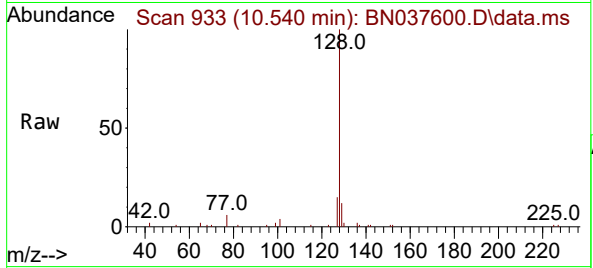




#9
Naphthalene
Concen: 0.396 ng
RT: 10.540 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

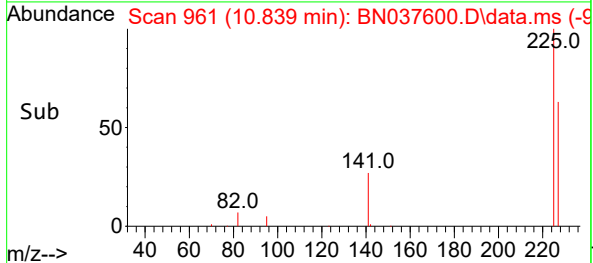
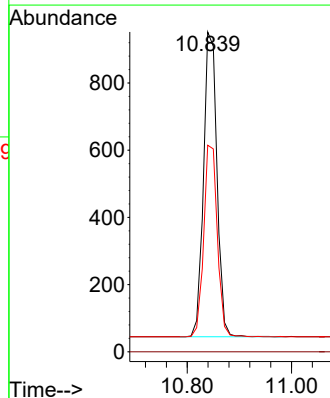
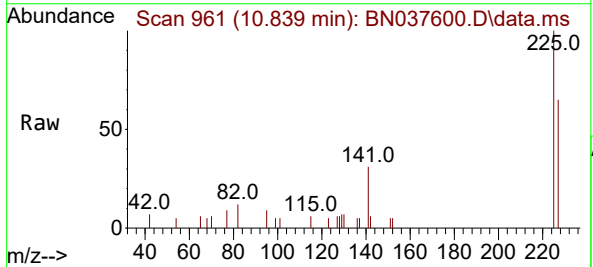
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

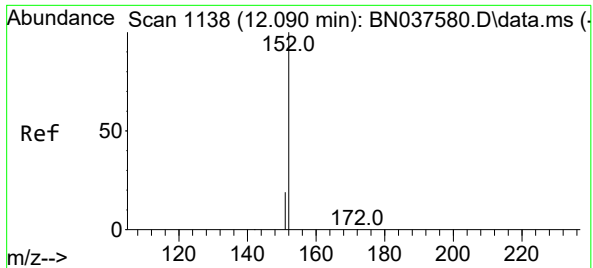
Tgt Ion:128 Resp: 6800
Ion Ratio Lower Upper
128 100
129 11.9 9.8 14.6
127 14.6 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.839 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion:225 Resp: 1625
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 50.8 76.2

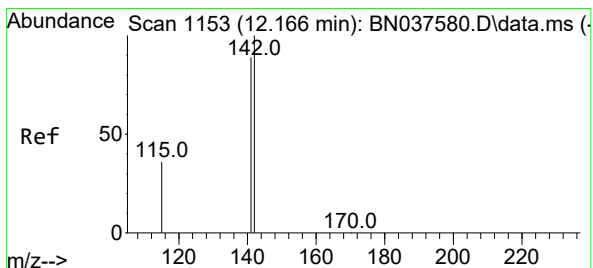
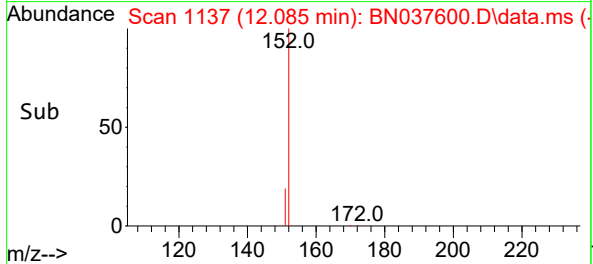
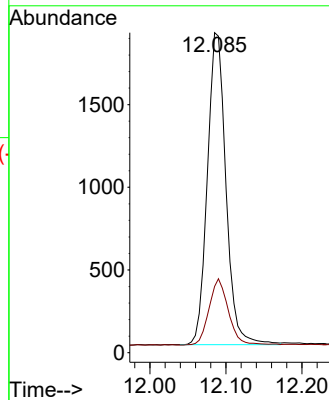
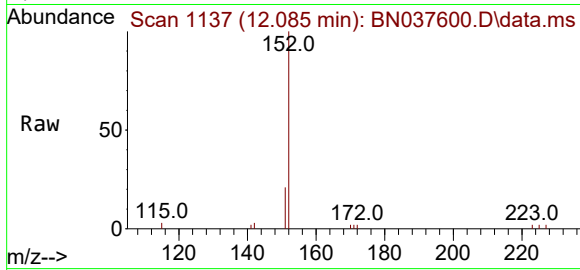




#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

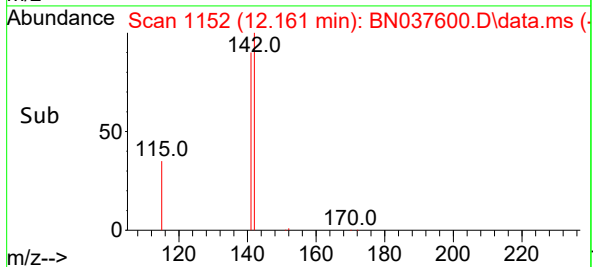
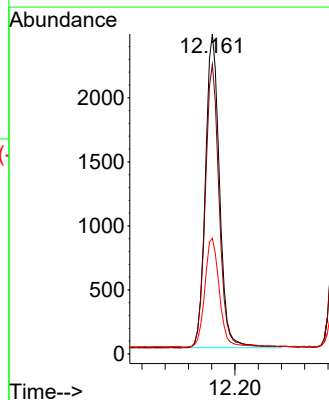
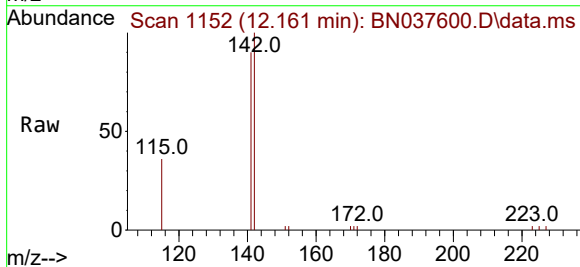
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

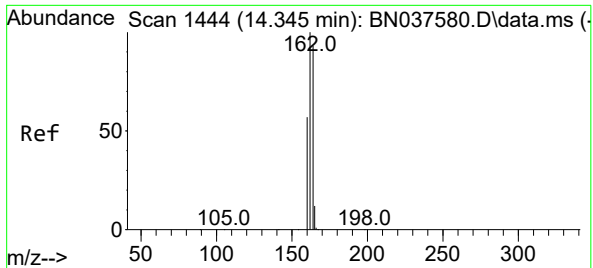
Tgt Ion:152 Resp: 3215
Ion Ratio Lower Upper
152 100
151 22.1 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.383 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion:142 Resp: 4129
Ion Ratio Lower Upper
142 100
141 90.4 71.4 107.0
115 36.2 30.2 45.4

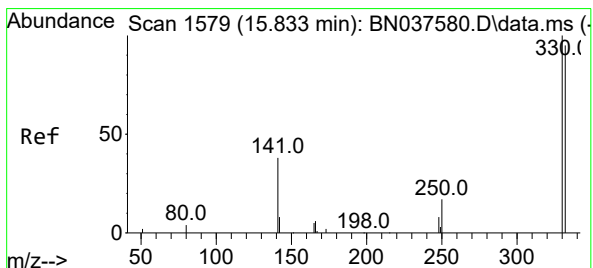
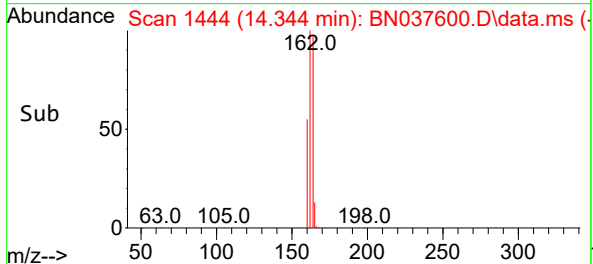
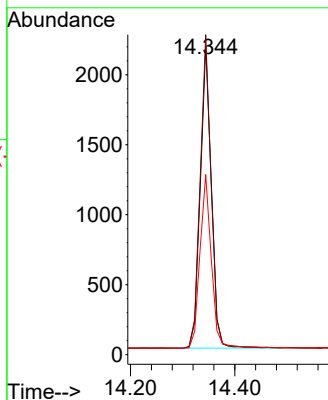
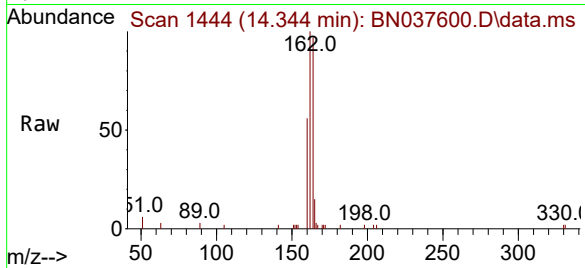




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.344 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

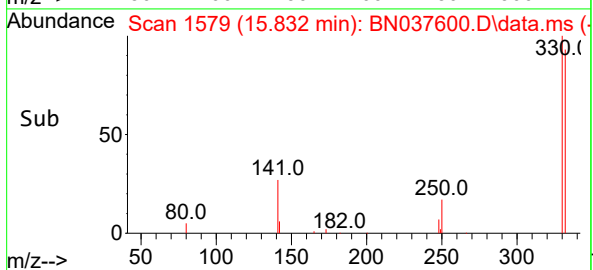
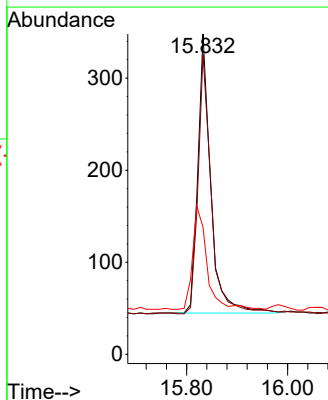
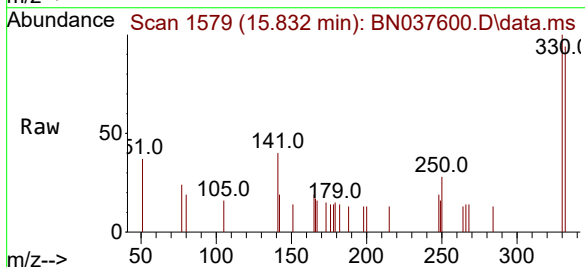
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

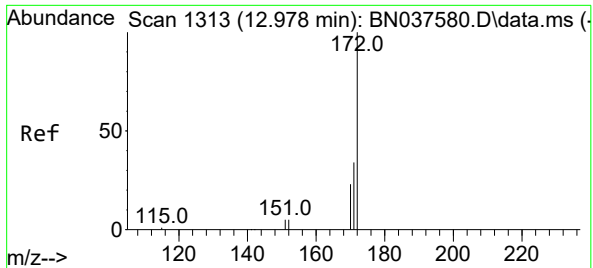
Tgt Ion:164 Resp: 3216
Ion Ratio Lower Upper
164 100
162 103.5 85.5 128.3
160 58.2 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.385 ng
RT: 15.832 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion:330 Resp: 542
Ion Ratio Lower Upper
330 100
332 95.6 77.4 116.0
141 40.6 30.9 46.3

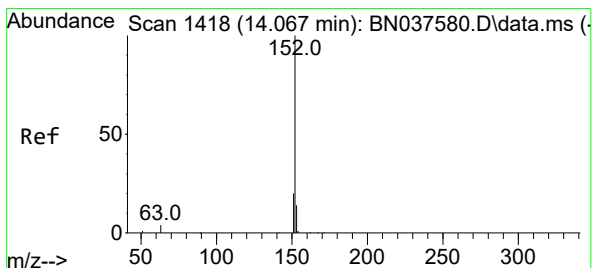
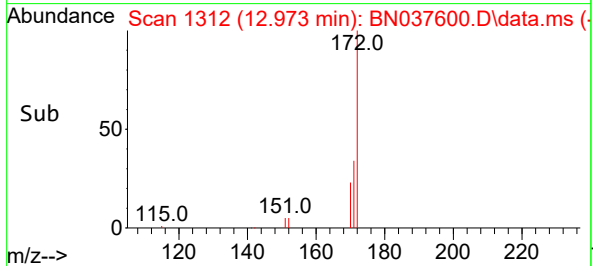
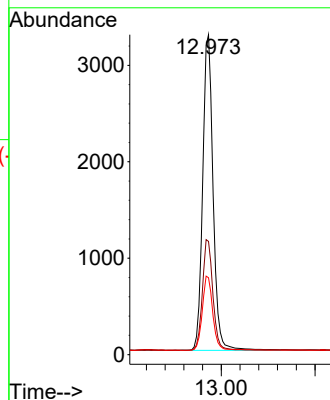
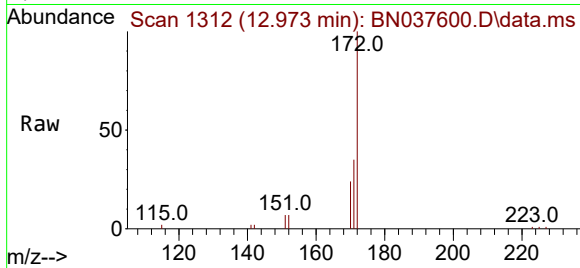




#15
2-Fluorobiphenyl
Concen: 0.378 ng
RT: 12.973 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

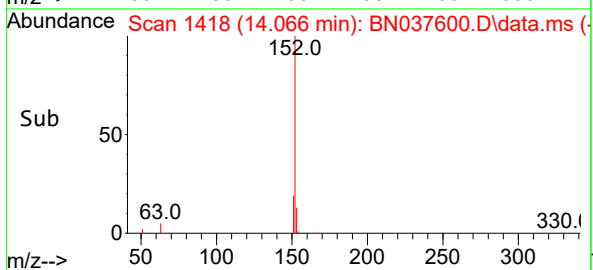
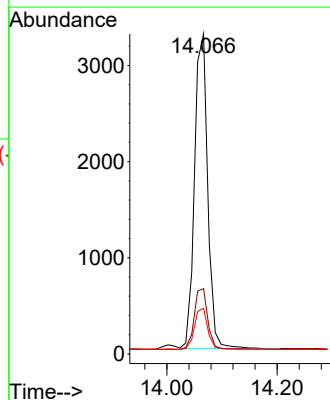
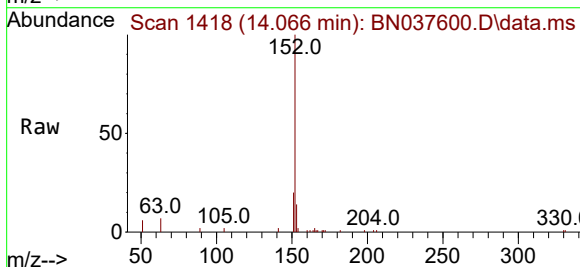
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

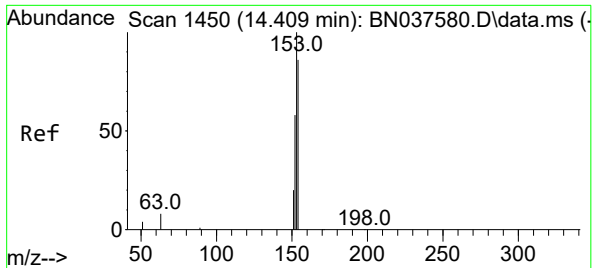
Tgt Ion:	172	Resp:	7030
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.2	42.4
170	24.1	19.2	28.8



#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.066 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion:	152	Resp:	5461
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.3	10.7	16.1

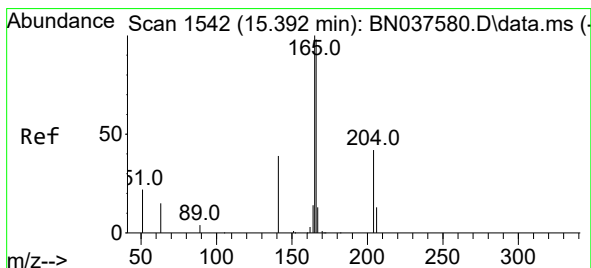
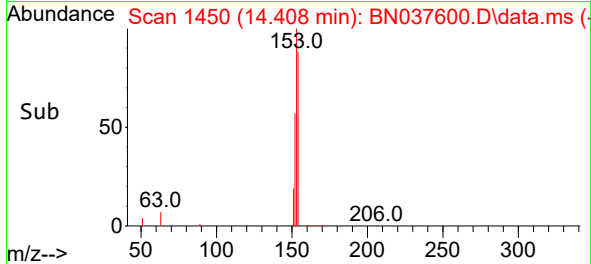
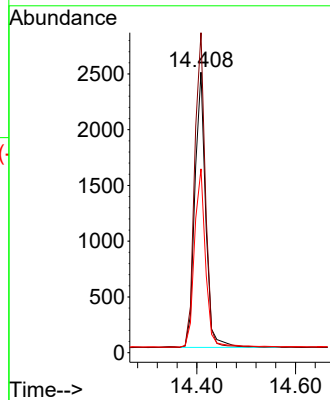
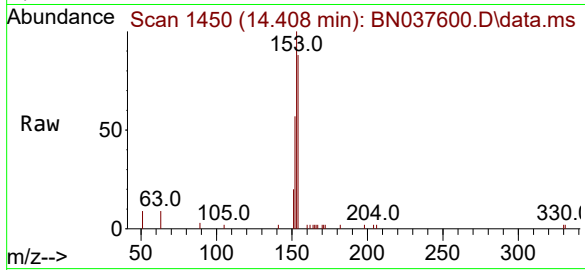




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.408 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

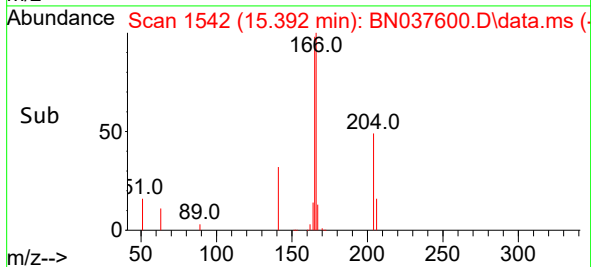
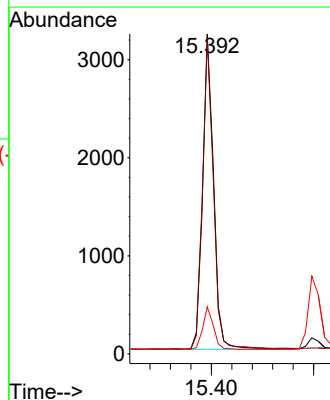
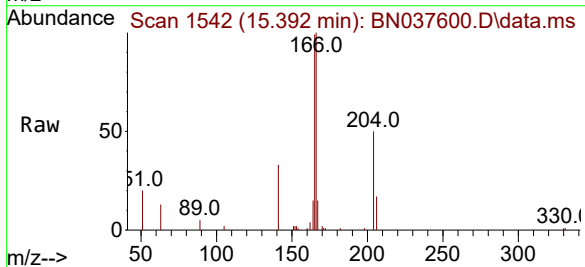
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

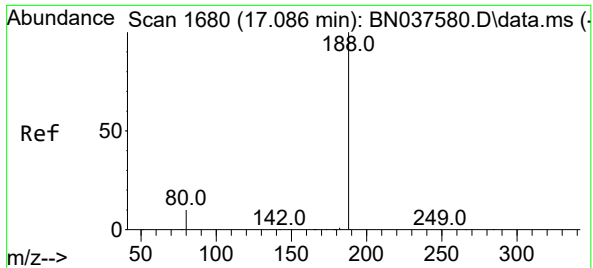
Tgt Ion:154 Resp: 3757
Ion Ratio Lower Upper
154 100
153 113.2 90.6 135.8
152 66.7 54.9 82.3



#18
Fluorene
Concen: 0.378 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion:166 Resp: 4853
Ion Ratio Lower Upper
166 100
165 97.2 78.9 118.3
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

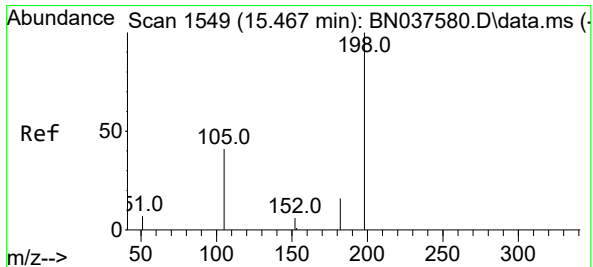
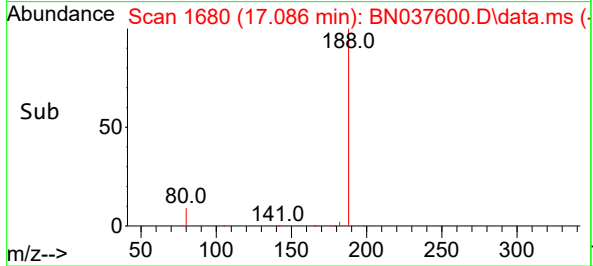
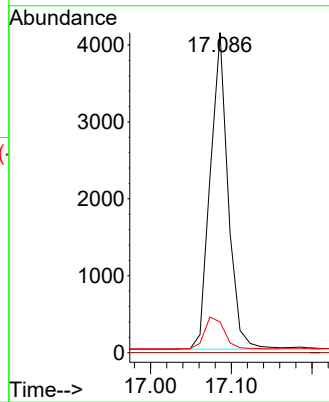
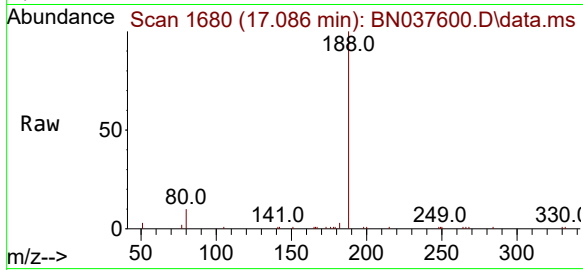
Tgt Ion:188 Resp: 6293

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.423 ng

RT: 15.467 min Scan# 1549

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

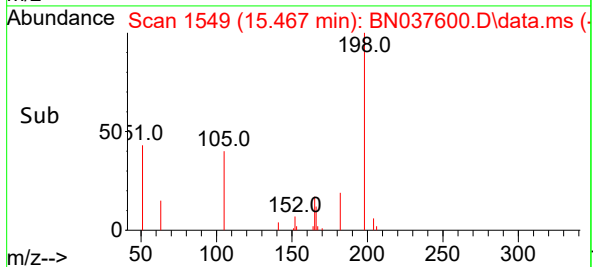
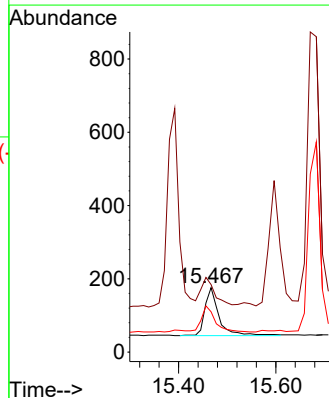
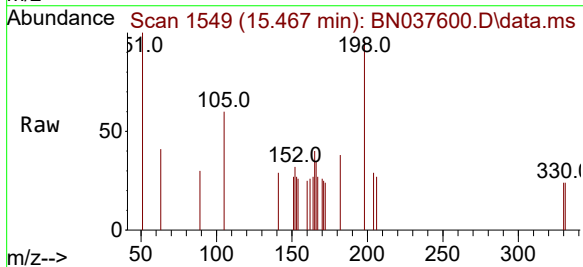
Tgt Ion:198 Resp: 277

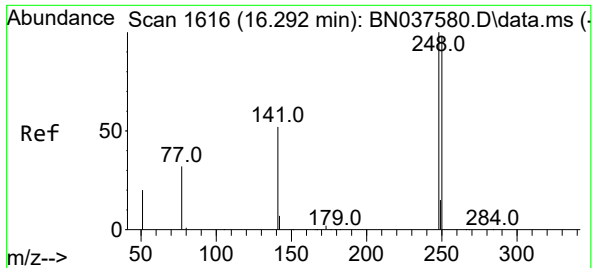
Ion Ratio Lower Upper

198 100

51 104.5 81.0 121.6

105 62.5 52.5 78.7

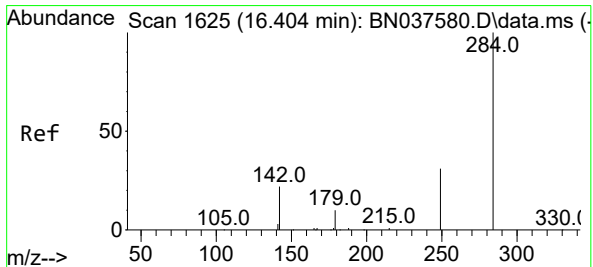
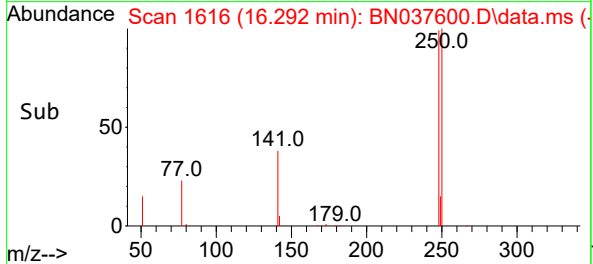
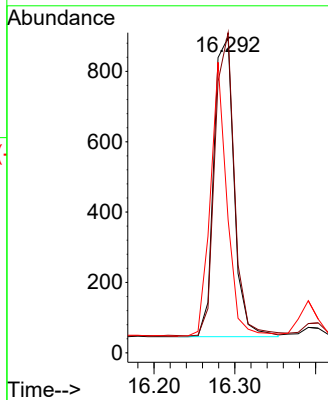
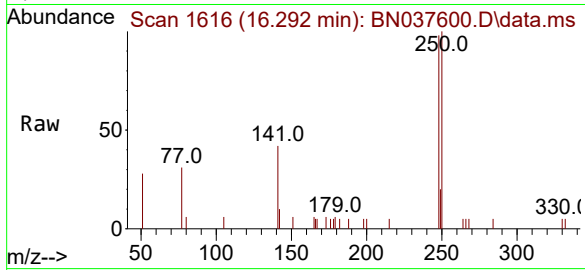




#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

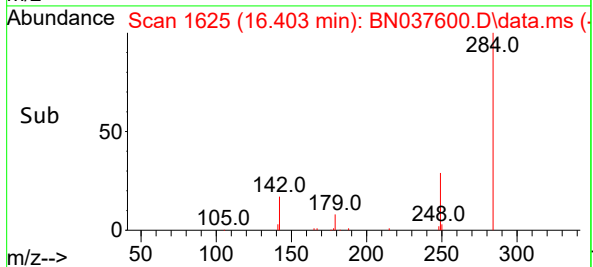
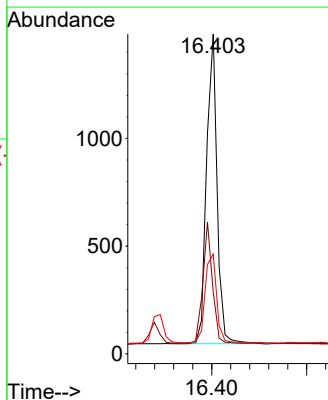
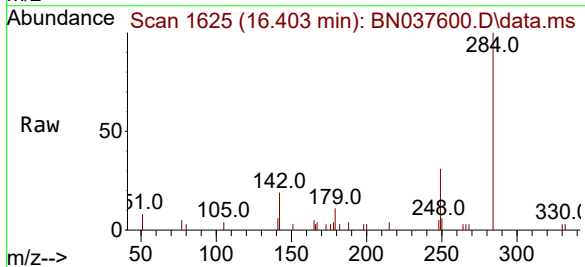
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

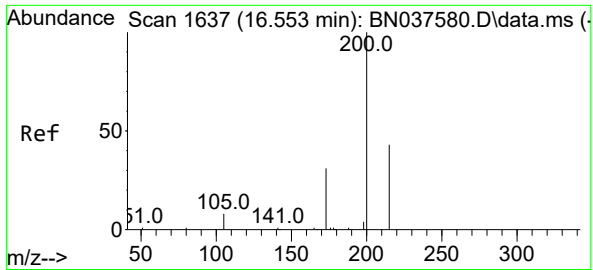
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	78.6	118.0
141	42.2	43.7	65.5#



#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.403 min Scan# 1625
Delta R.T. -0.001 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.6	29.8	44.6
249	32.0	26.0	39.0





#23

Atrazine

Concen: 0.394 ng

RT: 16.552 min Scan# 1637

Delta R.T. -0.001 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

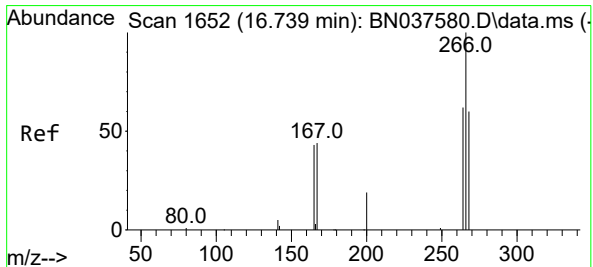
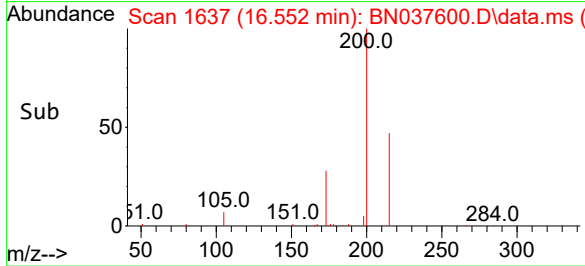
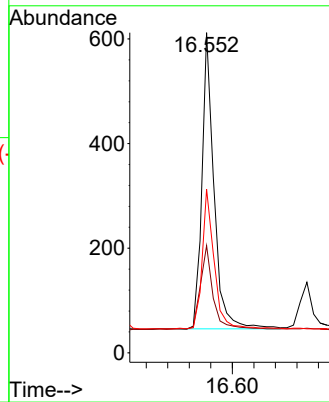
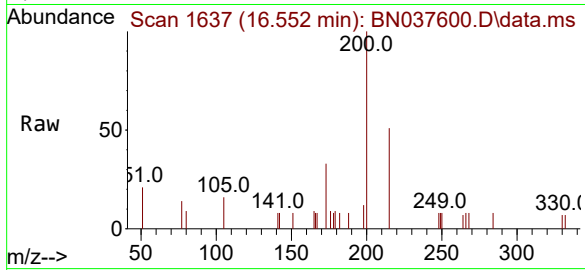
Tgt Ion:200 Resp: 882

Ion Ratio Lower Upper

200 100

173 33.5 31.0 46.4

215 51.1 39.4 59.0



#24

Pentachlorophenol

Concen: 0.394 ng

RT: 16.738 min Scan# 1652

Delta R.T. -0.001 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

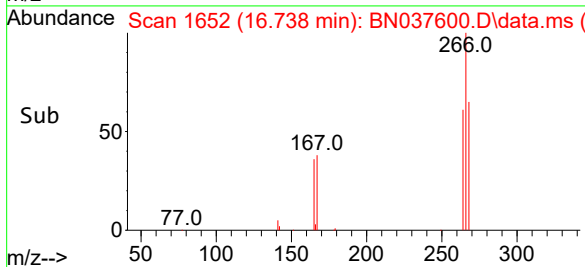
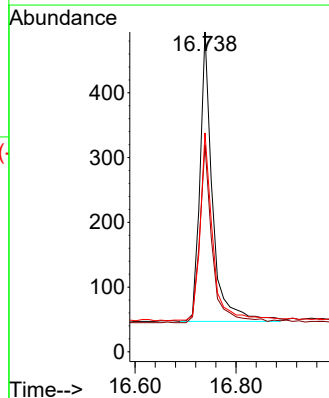
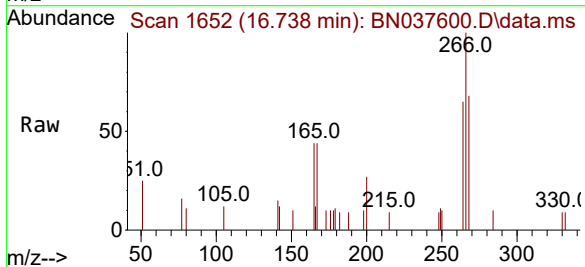
Tgt Ion:266 Resp: 775

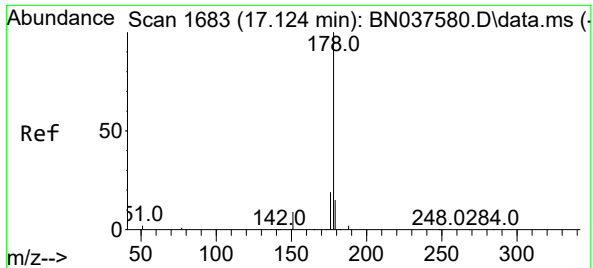
Ion Ratio Lower Upper

266 100

264 61.9 49.6 74.4

268 65.7 49.2 73.8

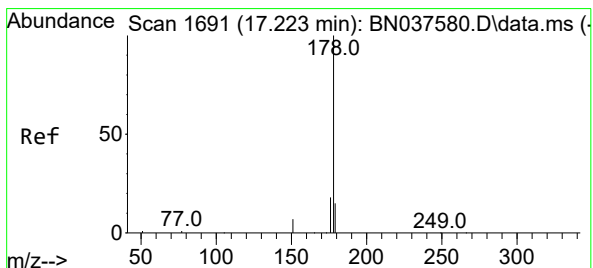
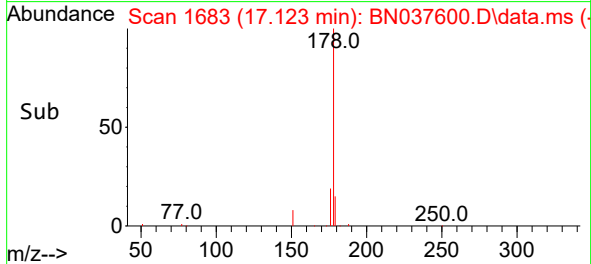
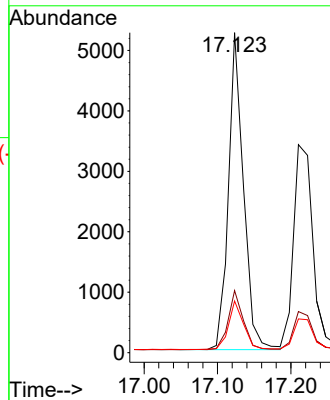
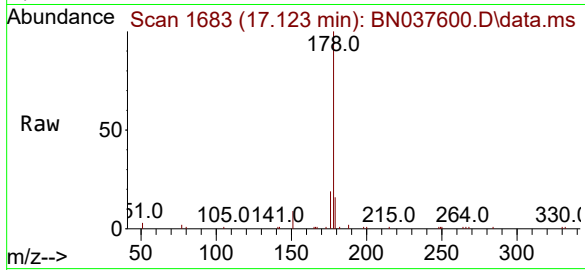




#25
Phenanthrene
Concen: 0.390 ng
RT: 17.123 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

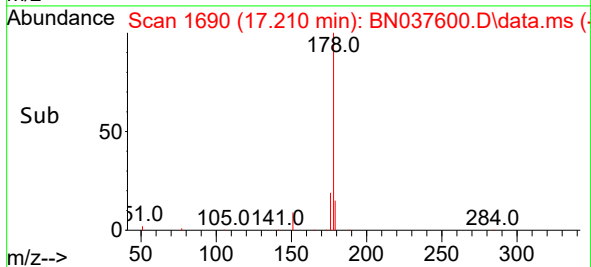
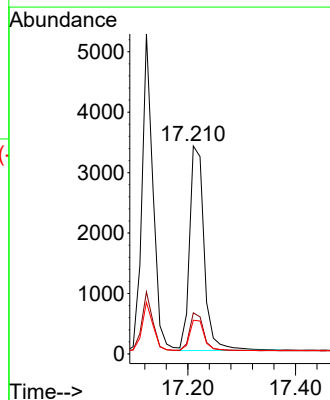
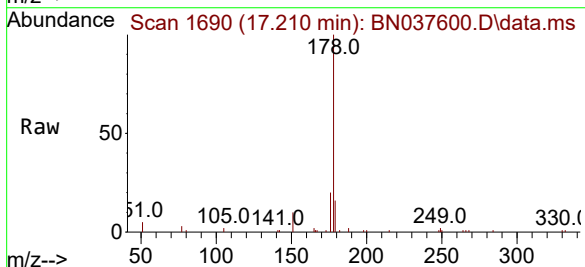
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

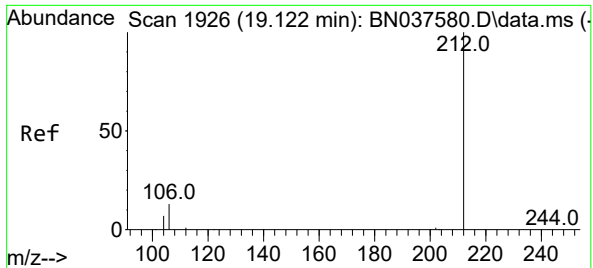
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.3	12.3	18.5



#26
Anthracene
Concen: 0.374 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.013 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.7	22.1
179	14.9	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.364 ng

RT: 19.117 min Scan# 1925

Delta R.T. -0.005 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

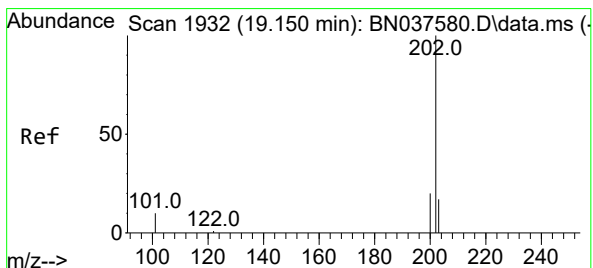
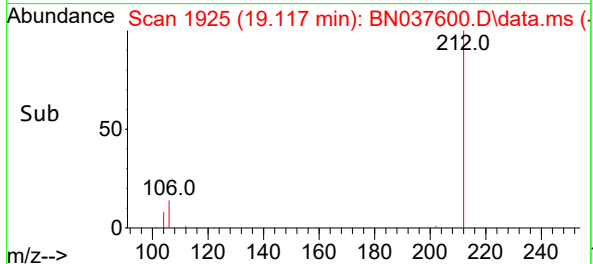
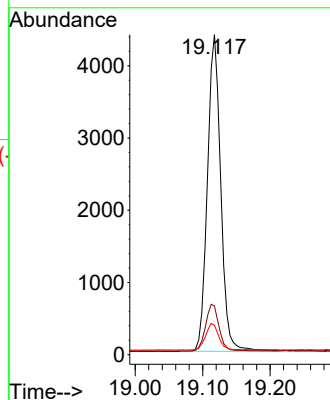
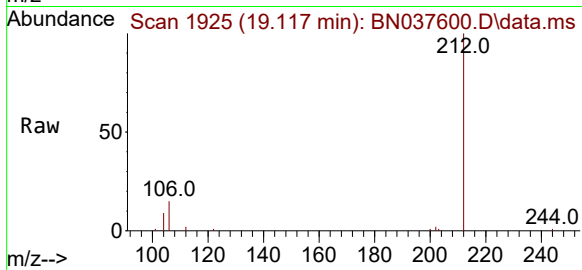
Tgt Ion:212 Resp: 6023

Ion Ratio Lower Upper

212 100

106 15.0 11.5 17.3

104 8.1 6.6 9.8



#28

Fluoranthene

Concen: 0.375 ng

RT: 19.145 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

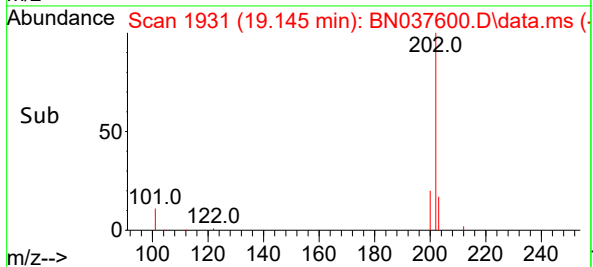
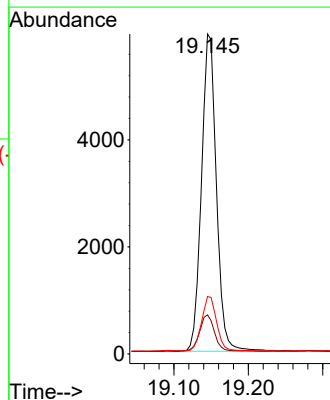
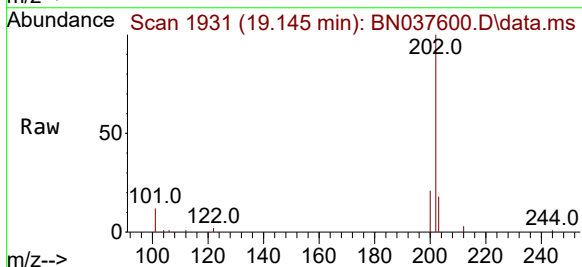
Tgt Ion:202 Resp: 8237

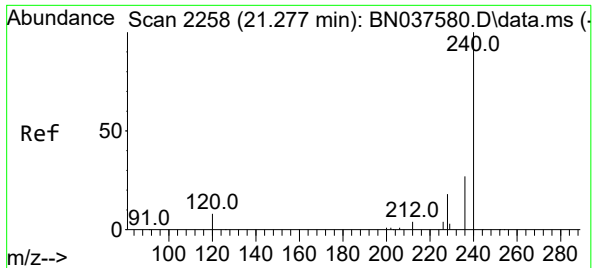
Ion Ratio Lower Upper

202 100

101 11.7 9.0 13.6

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.267 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

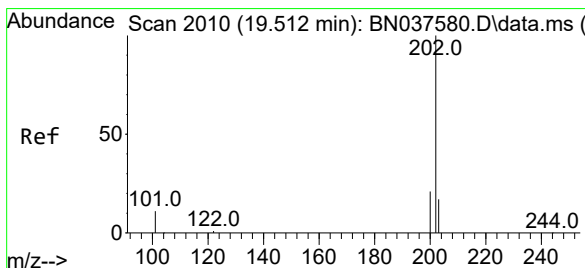
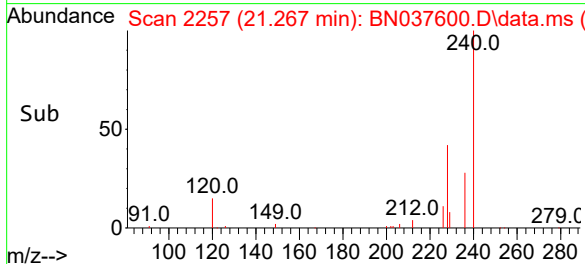
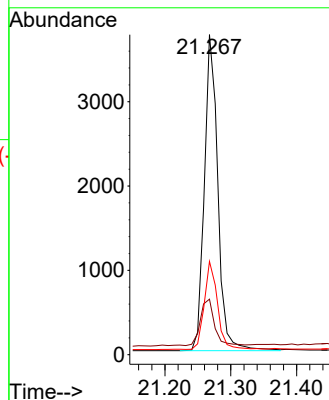
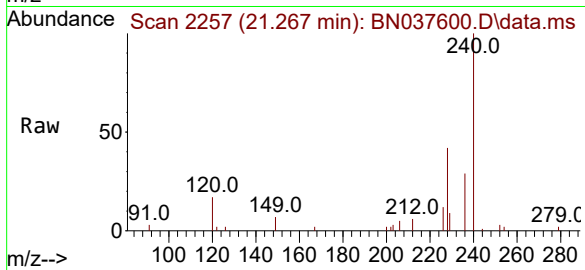
Tgt Ion:240 Resp: 5356

Ion Ratio Lower Upper

240 100

120 17.3 8.9 13.3#

236 29.1 22.6 33.8



#30

Pyrene

Concen: 0.405 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

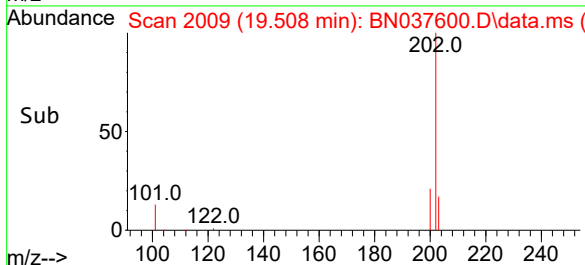
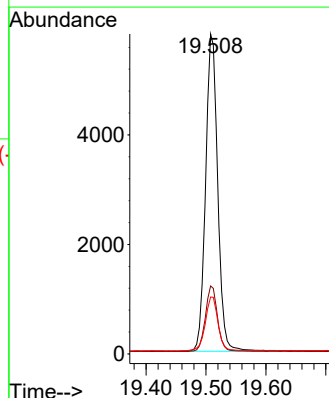
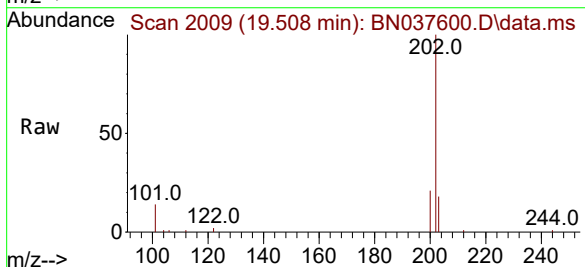
Tgt Ion:202 Resp: 8114

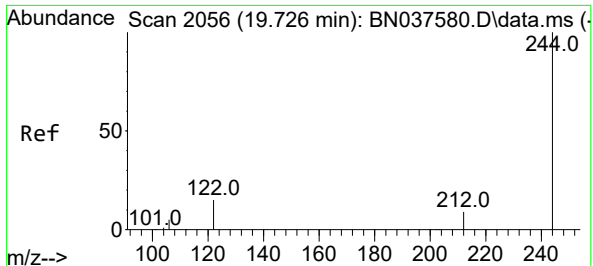
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.9 14.3 21.5

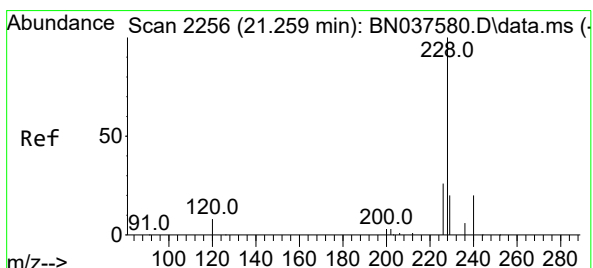
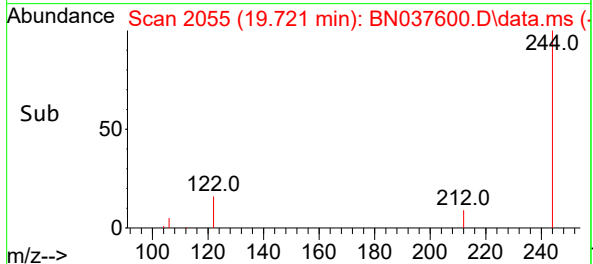
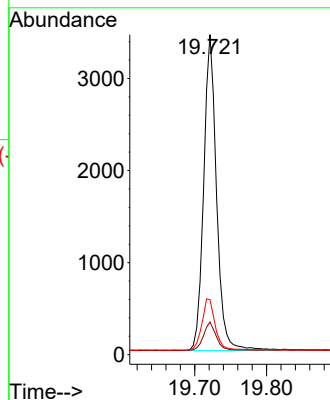
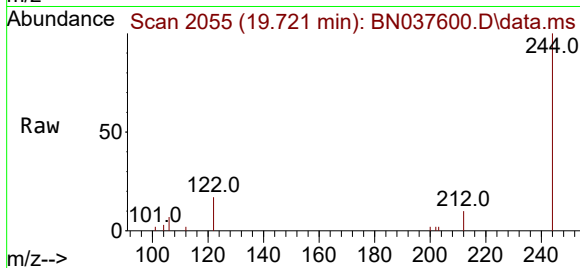




#31
 Terphenyl-d14
 Concen: 0.387 ng
 RT: 19.721 min Scan# 2055
 Delta R.T. -0.005 min
 Lab File: BN037600.D
 Acq: 19 Aug 2025 10:39

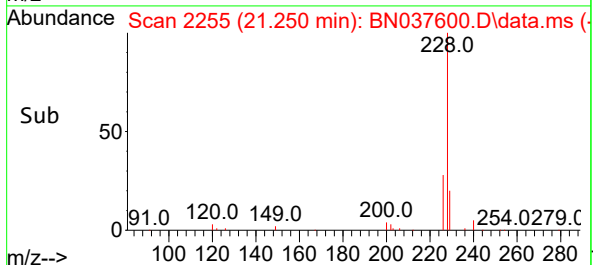
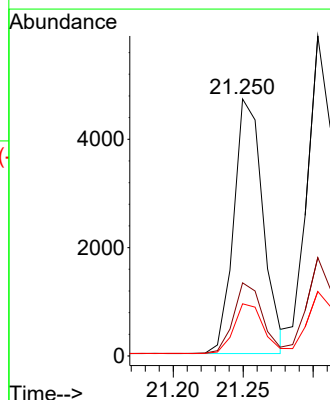
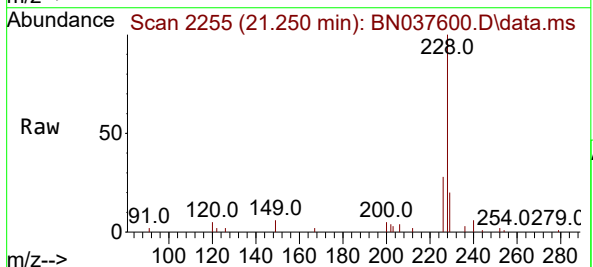
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

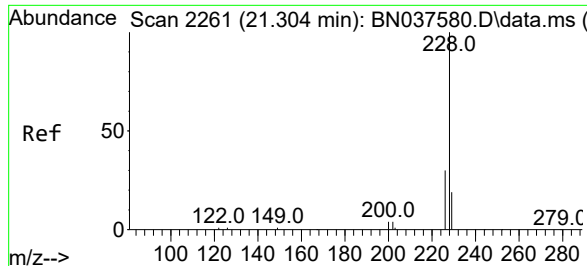
Tgt Ion:244 Resp: 4265
 Ion Ratio Lower Upper
 244 100
 212 10.2 8.2 12.2
 122 17.2 13.2 19.8



#32
 Benzo(a)anthracene
 Concen: 0.382 ng
 RT: 21.250 min Scan# 2255
 Delta R.T. -0.009 min
 Lab File: BN037600.D
 Acq: 19 Aug 2025 10:39

Tgt Ion:228 Resp: 6833
 Ion Ratio Lower Upper
 228 100
 226 28.5 21.5 32.3
 229 20.3 16.5 24.7





#33

Chrysene

Concen: 0.405 ng

RT: 21.303 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

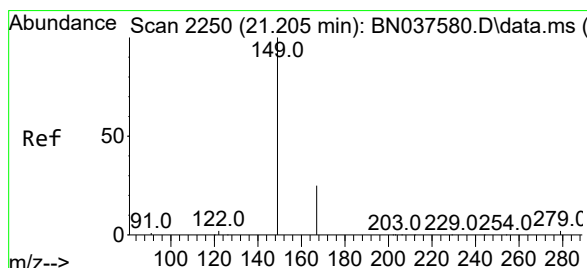
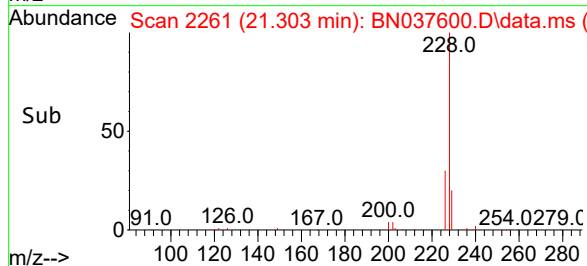
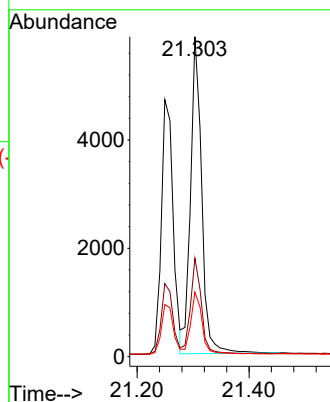
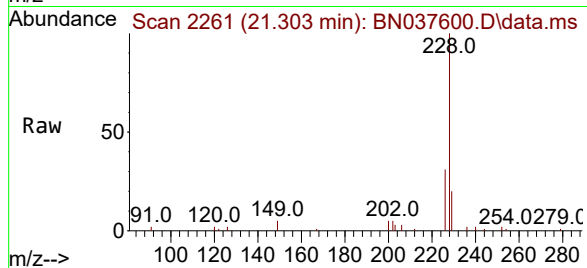
Tgt Ion:228 Resp: 8075

Ion Ratio Lower Upper

228 100

226 30.8 24.9 37.3

229 20.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.405 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

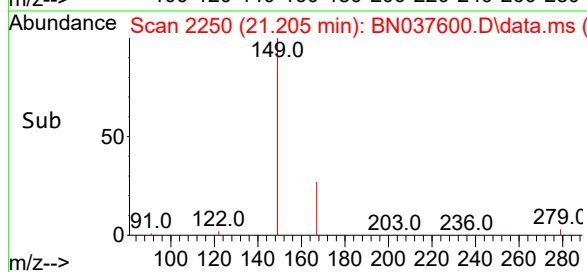
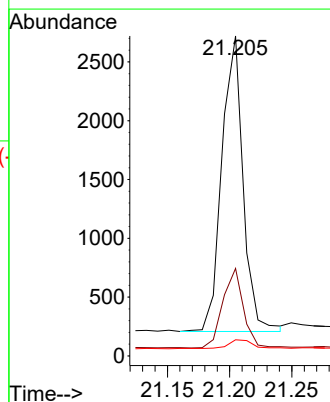
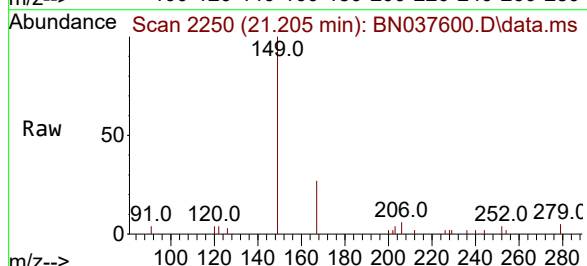
Tgt Ion:149 Resp: 2987

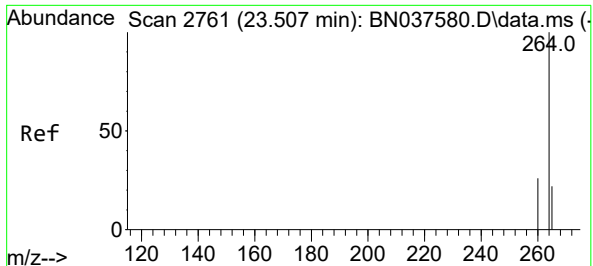
Ion Ratio Lower Upper

149 100

167 26.2 20.5 30.7

279 3.7 2.6 4.0

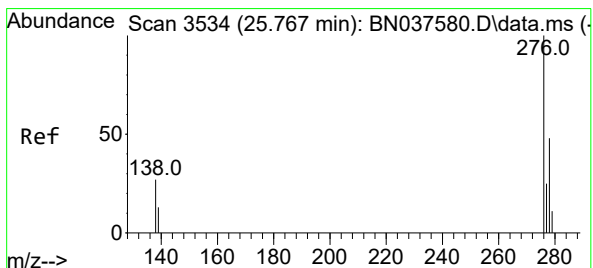
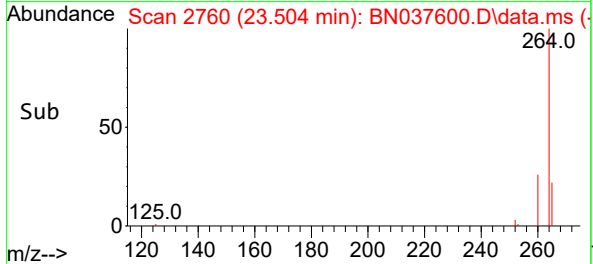
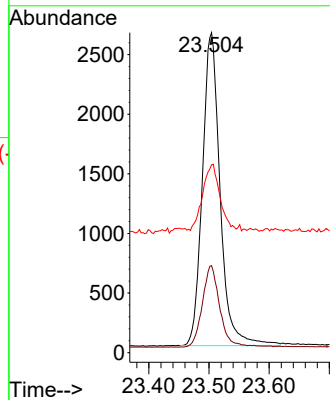
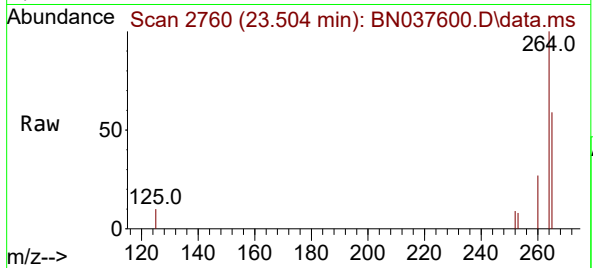




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.504 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

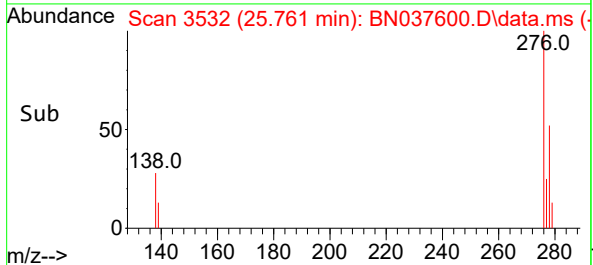
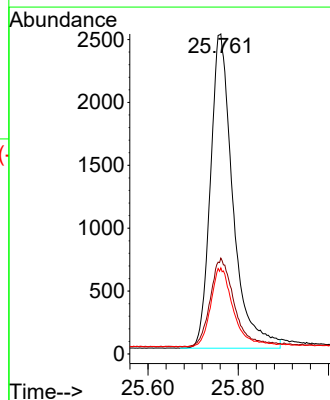
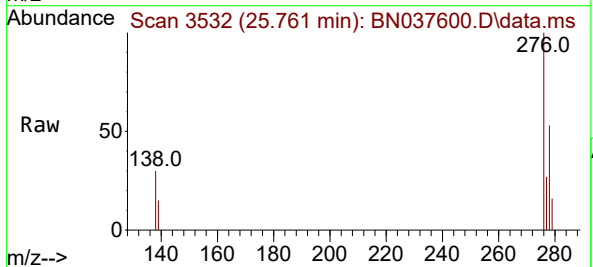
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

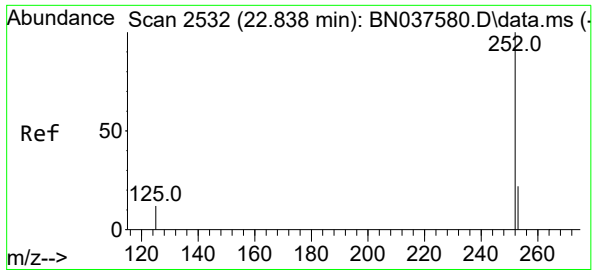
Tgt Ion:264 Resp: 5379
Ion Ratio Lower Upper
264 100
260 27.2 21.6 32.4
265 58.7 48.2 72.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.761 min Scan# 3532
Delta R.T. -0.006 min
Lab File: BN037600.D
Acq: 19 Aug 2025 10:39

Tgt Ion:276 Resp: 8634
Ion Ratio Lower Upper
276 100
138 30.5 23.3 34.9
277 25.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.358 ng

RT: 22.832 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

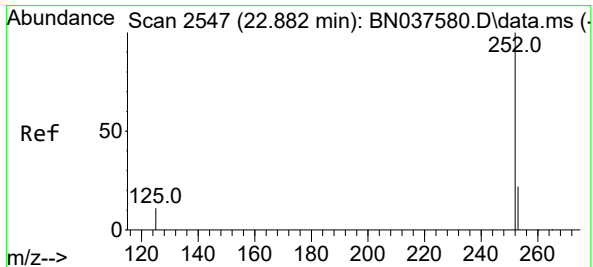
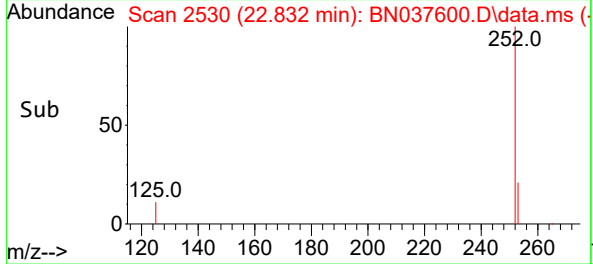
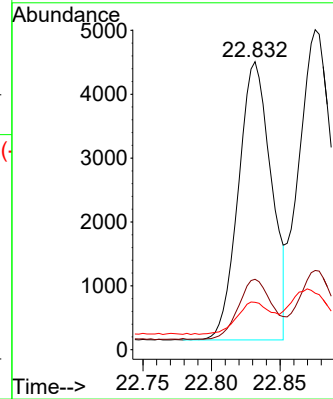
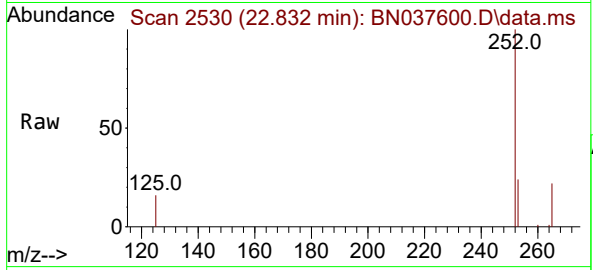
Tgt Ion:252 Resp: 7289

Ion Ratio Lower Upper

252 100

253 24.5 20.0 30.0

125 16.5 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.381 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

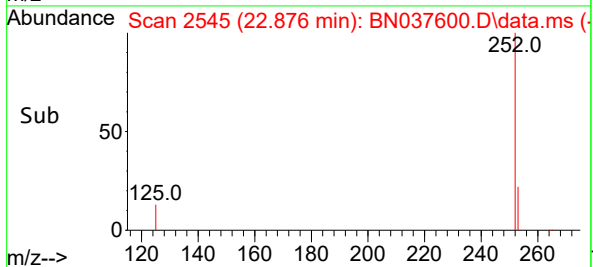
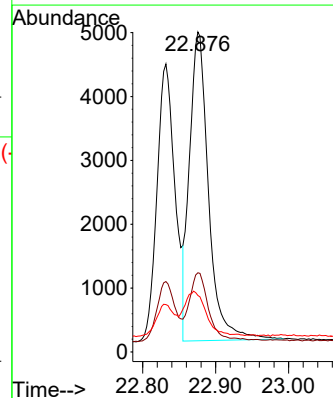
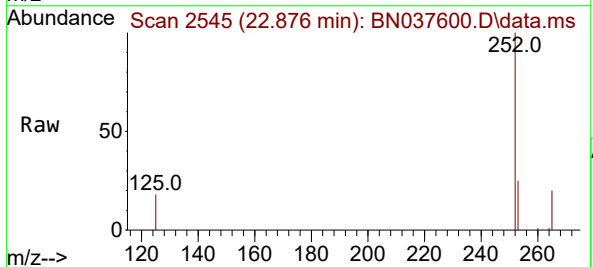
Tgt Ion:252 Resp: 8761

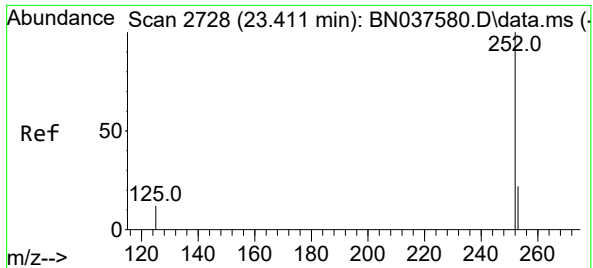
Ion Ratio Lower Upper

252 100

253 24.7 19.9 29.9

125 17.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.370 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

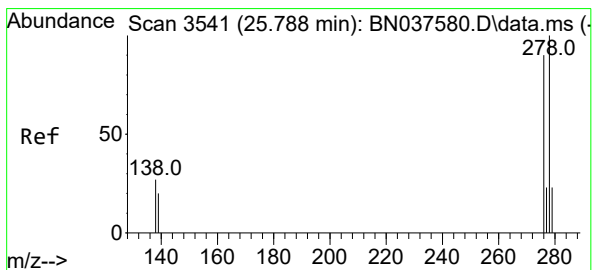
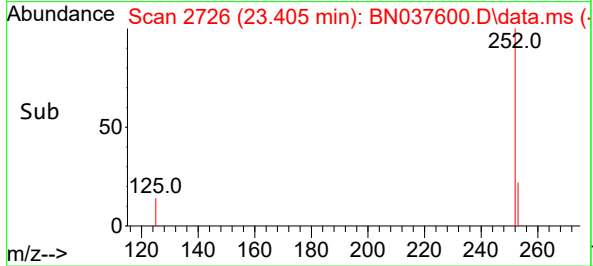
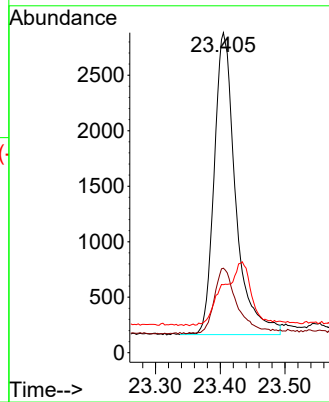
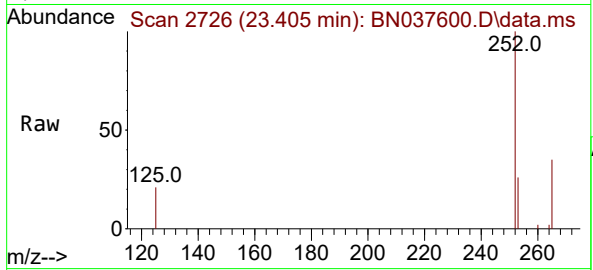
Tgt Ion:252 Resp: 6262

Ion Ratio Lower Upper

252 100

253 26.4 21.6 32.4

125 21.3 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.369 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.009 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

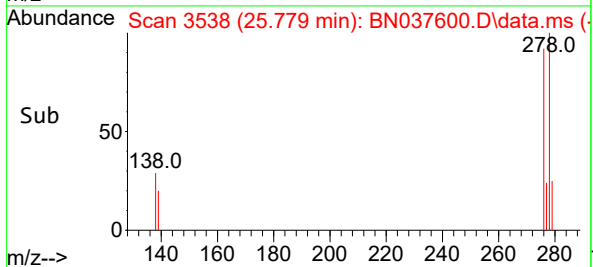
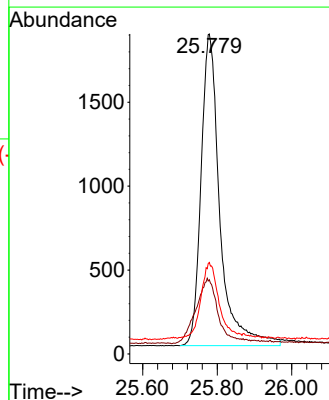
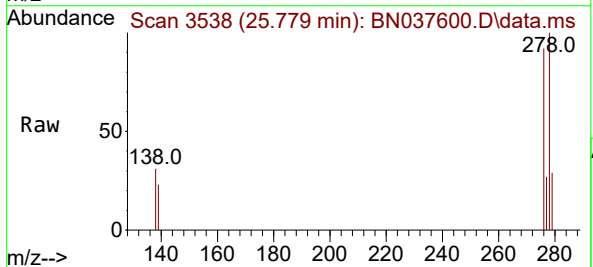
Tgt Ion:278 Resp: 6490

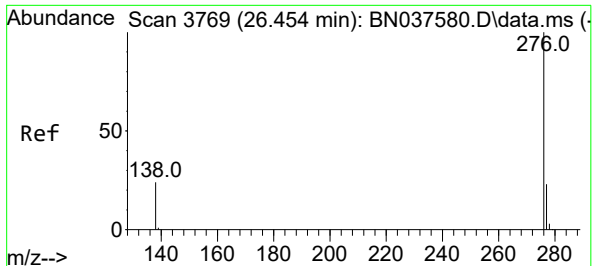
Ion Ratio Lower Upper

278 100

139 23.2 18.3 27.5

279 28.6 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.388 ng

RT: 26.448 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037600.D

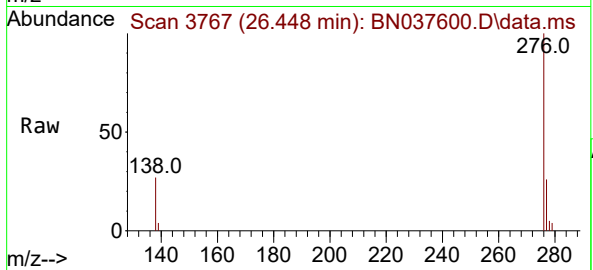
Acq: 19 Aug 2025 10:39

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



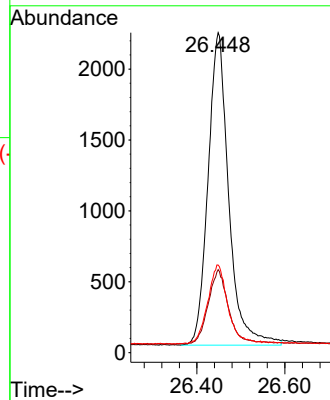
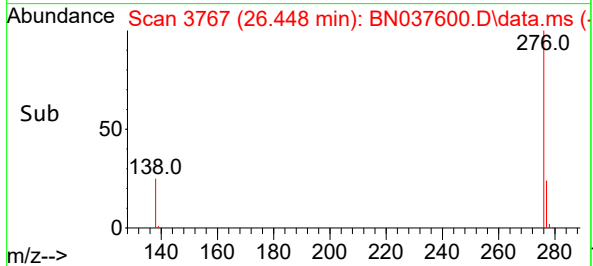
Tgt Ion:276 Resp: 7193

Ion Ratio Lower Upper

276 100

277 25.9 21.0 31.4

138 27.4 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037600.D
Acq On : 19 Aug 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 01:24:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	125	0.00
2	1,4-Dioxane	0.383	0.406	-6.0	128	0.00
3	n-Nitrosodimethylamine	0.489	0.478	2.2	122	0.00
4 S	2-Fluorophenol	0.907	0.907	0.0	128	0.00
5 S	Phenol-d6	1.091	1.078	1.2	129	0.00
6	bis(2-Chloroethyl)ether	0.983	1.003	-2.0	128	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	126	0.00
8 S	Nitrobenzene-d5	0.282	0.275	2.5	132	0.00
9	Naphthalene	1.065	1.053	1.1	128	-0.01
10	Hexachlorobutadiene	0.260	0.252	3.1	121	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.498	8.5	123	0.00
12	2-Methylnaphthalene	0.668	0.639	4.3	127	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	127	0.00
14 S	2,4,6-Tribromophenol	0.175	0.169	3.4	137	0.00
15 S	2-Fluorobiphenyl	2.313	2.186	5.5	121	0.00
16	Acenaphthylene	1.793	1.698	5.3	126	0.00
17	Acenaphthene	1.220	1.168	4.3	127	0.00
18	Fluorene	1.596	1.509	5.5	126	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.044	17.0	120	0.00
21	4-Bromophenyl-phenylether	0.251	0.235	6.4	126	0.00
22	Hexachlorobenzene	0.356	0.353	0.8	124	0.00
23	Atrazine	0.142	0.140	1.4	135	0.00
24	Pentachlorophenol	0.125	0.123	1.6	136	0.00
25	Phenanthrene	1.216	1.184	2.6	127	0.00
26	Anthracene	1.077	1.008	6.4	127	-0.01
27 SURR	Fluoranthene-d10	1.052	0.957	9.0	125	0.00
28	Fluoranthene	1.397	1.309	6.3	126	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	124	0.00
30	Pyrene	1.495	1.515	-1.3	128	0.00
31 S	Terphenyl-d14	0.823	0.796	3.3	124	0.00
32	Benzo(a)anthracene	1.336	1.276	4.5	125	0.00
33	Chrysene	1.489	1.508	-1.3	131	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.558	-1.3	133	0.00
35 I	Perylene-d12	1.000	1.000	0.0	128	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.605	4.8	128	0.00
37	Benzo(b)fluoranthene	1.516	1.355	10.6	130	0.00
38	Benzo(k)fluoranthene	1.710	1.629	4.7	127	0.00
39 C	Benzo(a)pyrene	1.257	1.164	7.4	130	0.00
40	Dibenzo(a,h)anthracene	1.308	1.207	7.7	127	0.00
41	Benzo(g,h,i)perylene	1.378	1.337	3.0	136	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037600.D
Acq On : 19 Aug 2025 10:39
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 01:24:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	125	0.00
2	1,4-Dioxane	0.400	0.424	-6.0	128	0.00
3	n-Nitrosodimethylamine	0.400	0.391	2.3	122	0.00
4 S	2-Fluorophenol	0.400	0.400	0.0	128	0.00
5 S	Phenol-d6	0.400	0.395	1.3	129	0.00
6	bis(2-Chloroethyl)ether	0.400	0.408	-2.0	128	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	126	0.00
8 S	Nitrobenzene-d5	0.400	0.391	2.3	132	0.00
9	Naphthalene	0.400	0.396	1.0	128	-0.01
10	Hexachlorobutadiene	0.400	0.387	3.3	121	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.366	8.5	123	0.00
12	2-Methylnaphthalene	0.400	0.383	4.3	127	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	127	0.00
14 S	2,4,6-Tribromophenol	0.400	0.385	3.8	137	0.00
15 S	2-Fluorobiphenyl	0.400	0.378	5.5	121	0.00
16	Acenaphthylene	0.400	0.379	5.3	126	0.00
17	Acenaphthene	0.400	0.383	4.3	127	0.00
18	Fluorene	0.400	0.378	5.5	126	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.423	-5.7	120	0.00
21	4-Bromophenyl-phenylether	0.400	0.374	6.5	126	0.00
22	Hexachlorobenzene	0.400	0.397	0.8	124	0.00
23	Atrazine	0.400	0.394	1.5	135	0.00
24	Pentachlorophenol	0.400	0.394	1.5	136	0.00
25	Phenanthrene	0.400	0.390	2.5	127	0.00
26	Anthracene	0.400	0.374	6.5	127	-0.01
27 SURR	Fluoranthene-d10	0.400	0.364	9.0	125	0.00
28	Fluoranthene	0.400	0.375	6.3	126	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	124	0.00
30	Pyrene	0.400	0.405	-1.3	128	0.00
31 S	Terphenyl-d14	0.400	0.387	3.3	124	0.00
32	Benzo(a)anthracene	0.400	0.382	4.5	125	0.00
33	Chrysene	0.400	0.405	-1.3	131	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.405	-1.3	133	0.00
35 I	Perylene-d12	0.400	0.400	0.0	128	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.381	4.8	128	0.00
37	Benzo(b)fluoranthene	0.400	0.358	10.5	130	0.00
38	Benzo(k)fluoranthene	0.400	0.381	4.8	127	0.00
39 C	Benzo(a)pyrene	0.400	0.370	7.5	130	0.00
40	Dibenzo(a,h)anthracene	0.400	0.369	7.8	127	0.00
41	Benzo(g,h,i)perylene	0.400	0.388	3.0	136	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: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2881
 Instrument ID: BNA_N Calibration Date/Time: 08/19/2025 20:19
 Lab File ID: BN037616.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.508		-6.6	50.0
Fluoranthene-d10	1.052	0.969		-7.9	50.0
2-Fluorophenol	0.907	0.927		2.2	50.0
Phenol-d6	1.091	1.101		0.9	50.0
Nitrobenzene-d5	0.282	0.270		-4.3	50.0
2-Fluorobiphenyl	2.313	2.275		-1.6	50.0
2,4,6-Tribromophenol	0.175	0.174		-0.6	50.0
Terphenyl-d14	0.823	0.818		-0.6	50.0
1,4-Dioxane	0.383	0.398		3.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037616.D
 Acq On : 19 Aug 2025 20:19
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Aug 20 01:30:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

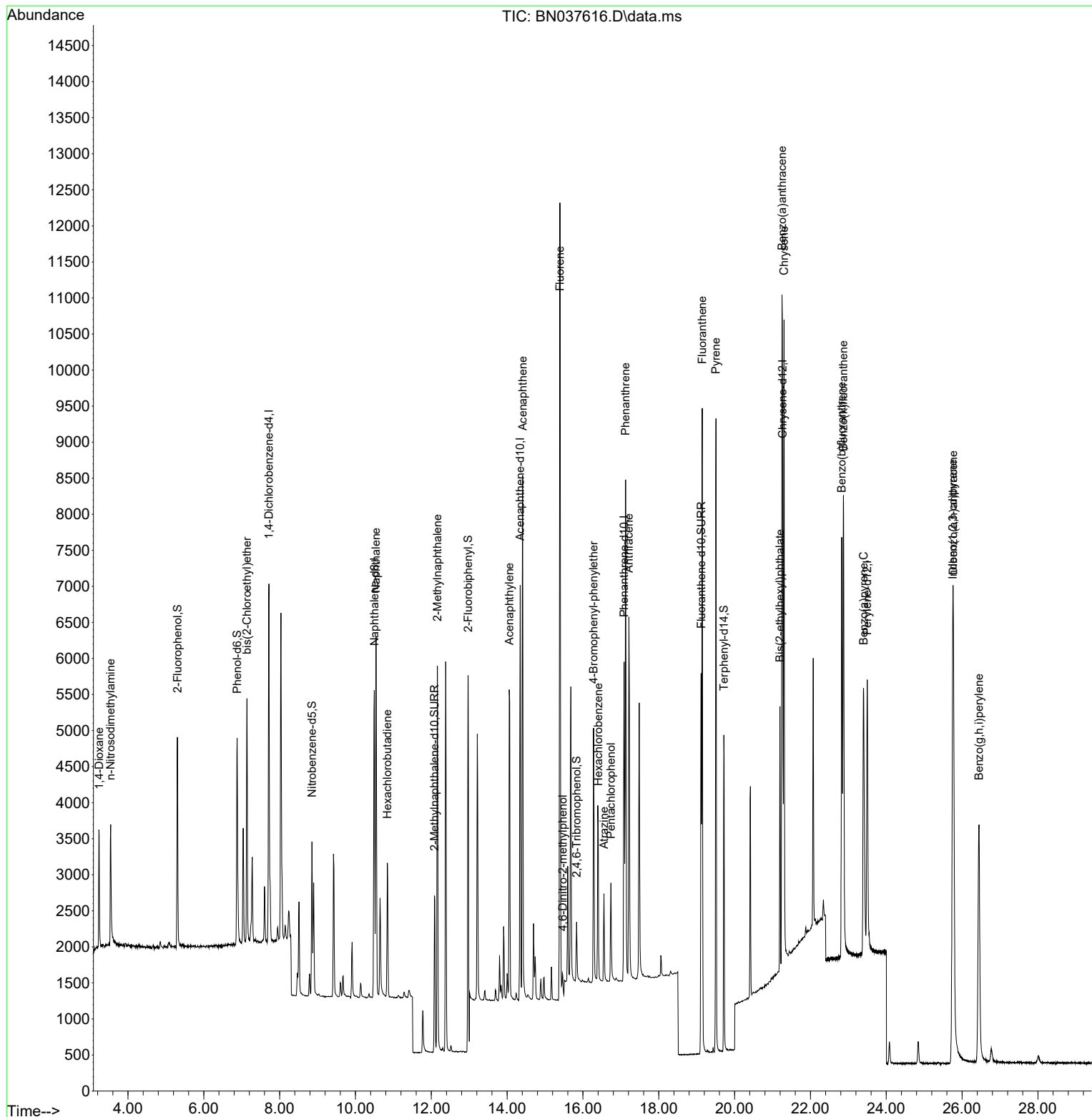
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2488	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6091	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	3098	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	6111	0.400	ng	0.00
29) Chrysene-d12	21.268	240	5296	0.400	ng	0.00
35) Perylene-d12	23.499	264	5283	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2306	0.409	ng	0.00
5) Phenol-d6	6.879	99	2740	0.404	ng	0.00
8) Nitrobenzene-d5	8.854	82	1643	0.383	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	3093	0.374	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	538	0.397	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	7049	0.393	ng	0.00
27) Fluoranthene-d10	19.118	212	5919	0.368	ng	0.00
31) Terphenyl-d14	19.717	244	4334	0.398	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	991	0.416	ng	97
3) n-Nitrosodimethylamine	3.543	42	1194	0.393	ng	90
6) bis(2-Chloroethyl)ether	7.139	93	2498	0.408	ng	98
9) Naphthalene	10.541	128	6407	0.395	ng	100
10) Hexachlorobutadiene	10.840	225	1566	0.395	ng	# 100
12) 2-Methylnaphthalene	12.162	142	3974	0.391	ng	100
16) Acenaphthylene	14.056	152	5383	0.388	ng	99
17) Acenaphthene	14.409	154	3619	0.383	ng	98
18) Fluorene	15.393	166	4725	0.382	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	272	0.426	ng	94
21) 4-Bromophenyl-phenylether	16.280	248	1506	0.392	ng	# 79
22) Hexachlorobenzene	16.404	284	2181	0.401	ng	98
23) Atrazine	16.553	200	958	0.441	ng	# 94
24) Pentachlorophenol	16.739	266	720	0.377	ng	96
25) Phenanthrene	17.124	178	7150	0.385	ng	99
26) Anthracene	17.211	178	6057	0.368	ng	99
28) Fluoranthene	19.146	202	8042	0.377	ng	100
30) Pyrene	19.508	202	7960	0.402	ng	100
32) Benzo(a)anthracene	21.250	228	6816	0.385	ng	99
33) Chrysene	21.304	228	7727	0.392	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	3103	0.425	ng	99
36) Indeno(1,2,3-cd)pyrene	25.753	276	9072	0.408	ng	98
37) Benzo(b)fluoranthene	22.826	252	7547	0.377	ng	99
38) Benzo(k)fluoranthene	22.870	252	8546	0.378	ng	99
39) Benzo(a)pyrene	23.399	252	6313	0.380	ng	98
40) Dibenzo(a,h)anthracene	25.771	278	6890	0.399	ng	99
41) Benzo(g,h,i)perylene	26.446	276	7193	0.395	ng	99

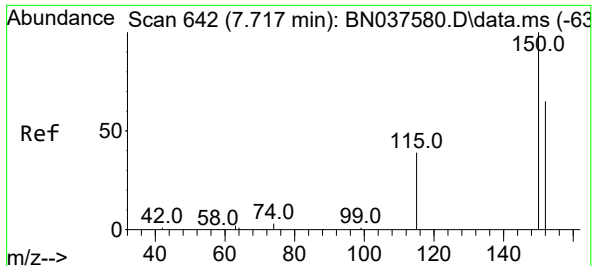
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037616.D
Acq On : 19 Aug 2025 20:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

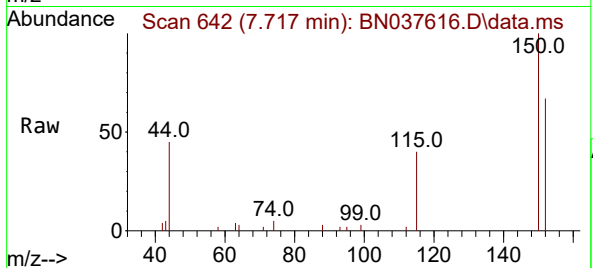
Quant Time: Aug 20 01:30:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



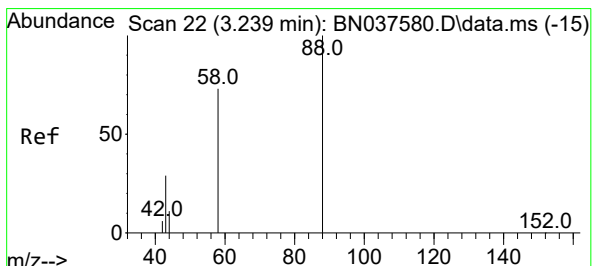
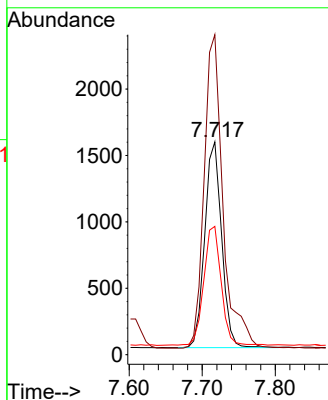
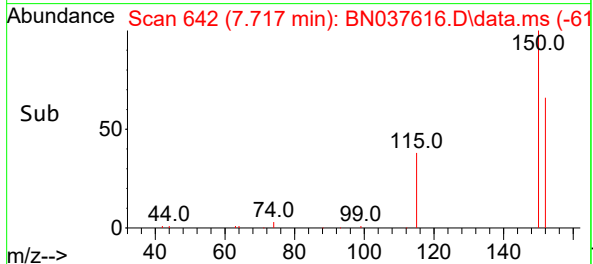


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

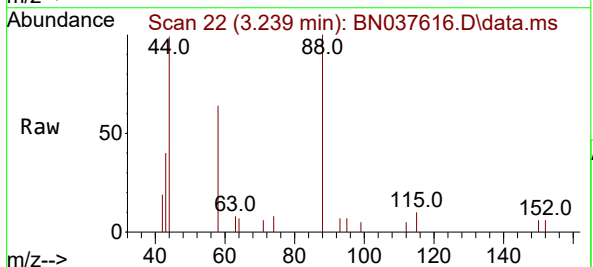
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



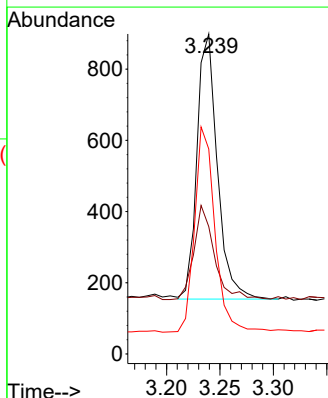
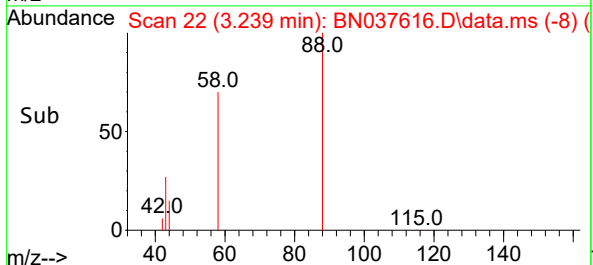
Tgt Ion:152 Resp: 2488
Ion Ratio Lower Upper
152 100
150 150.3 122.2 183.4
115 60.3 49.8 74.6

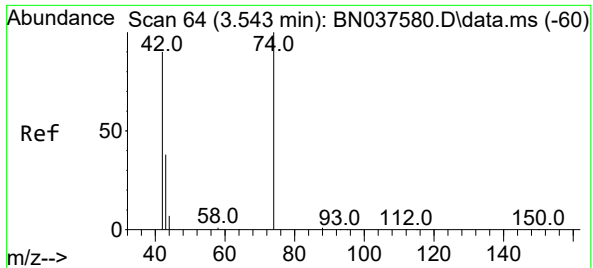


#2
1,4-Dioxane
Concen: 0.416 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19



Tgt Ion: 88 Resp: 991
Ion Ratio Lower Upper
88 100
43 35.6 25.8 38.6
58 78.0 61.2 91.8

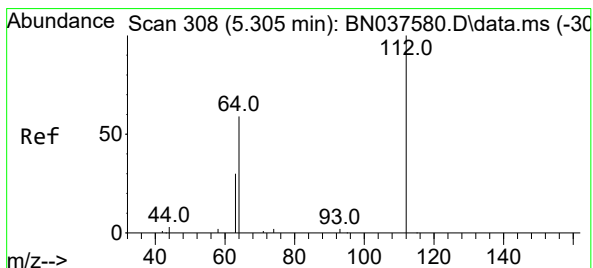
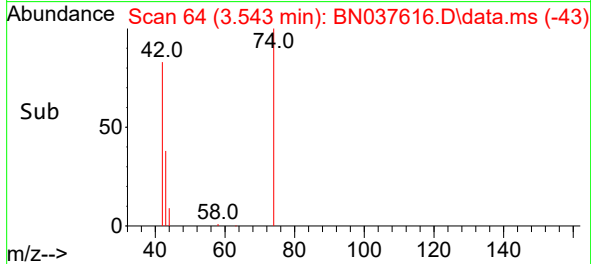
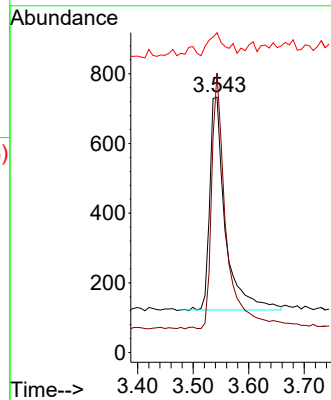
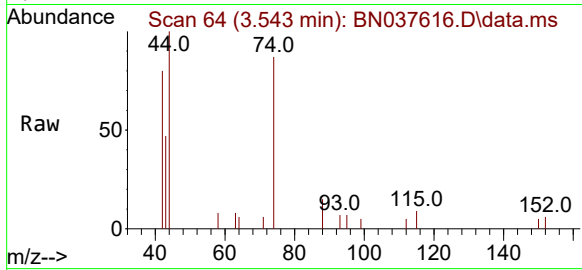




#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

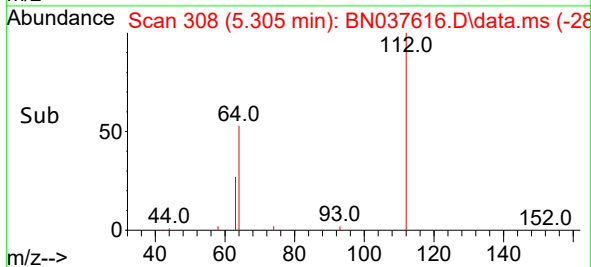
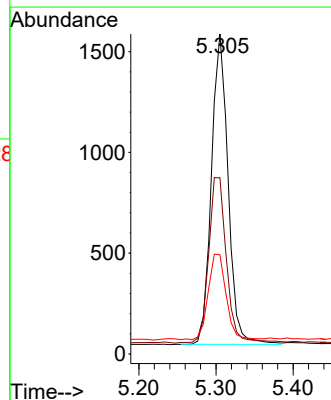
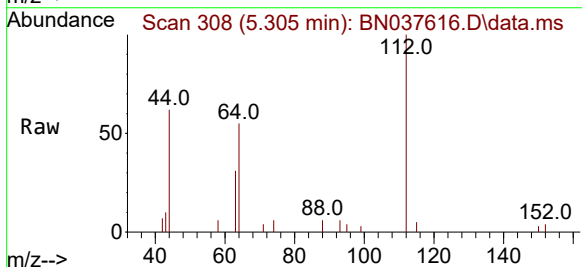
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

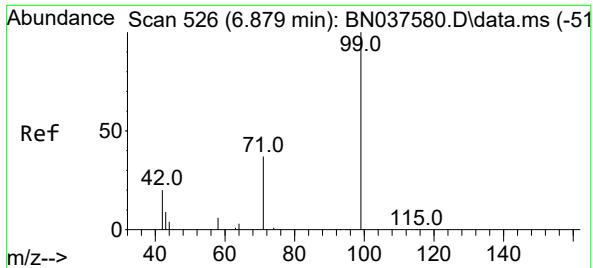
Tgt Ion: 42 Resp: 1194
Ion Ratio Lower Upper
42 100
74 112.8 82.0 123.0
44 11.5 7.9 11.9



#4
2-Fluorophenol
Concen: 0.409 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion: 112 Resp: 2306
Ion Ratio Lower Upper
112 100
64 57.3 44.9 67.3
63 29.4 23.4 35.2

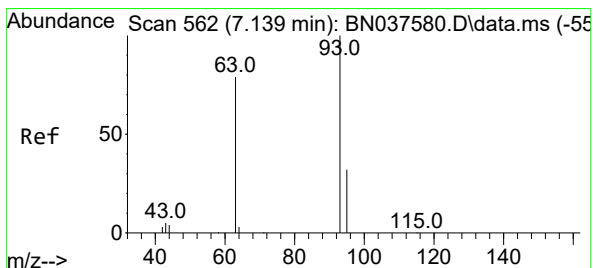
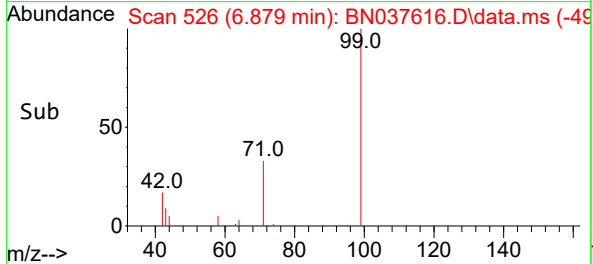
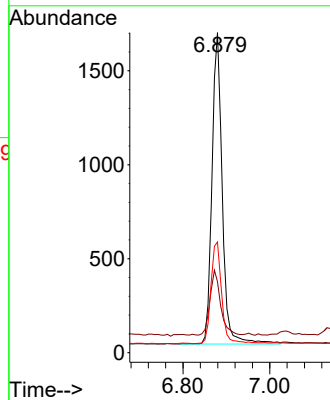
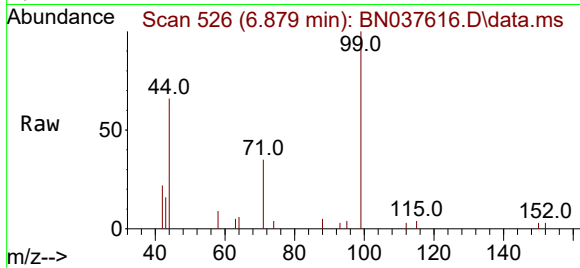




#5
Phenol-d6
Concen: 0.404 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

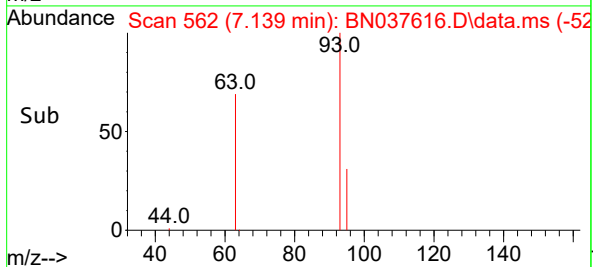
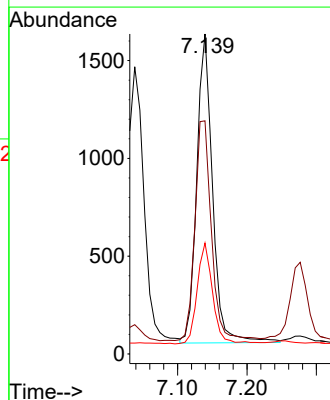
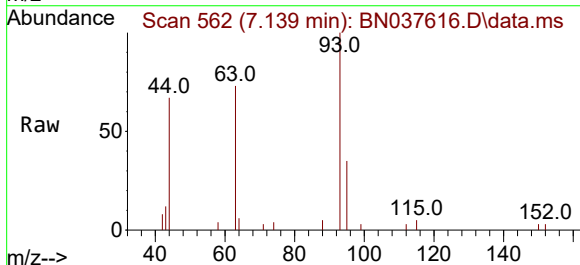
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

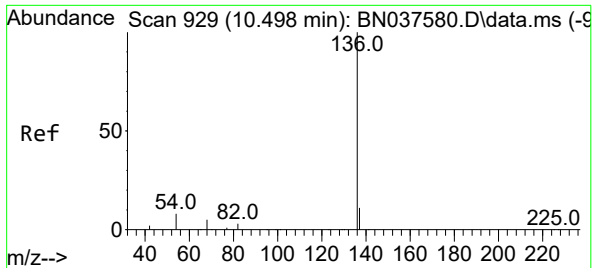
Tgt Ion:	99	Resp:	2740
Ion	Ratio	Lower	Upper
99	100		
42	21.5	18.5	27.7
71	34.3	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.408 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:	93	Resp:	2498
Ion	Ratio	Lower	Upper
93	100		
63	73.8	58.0	87.0
95	31.9	24.9	37.3

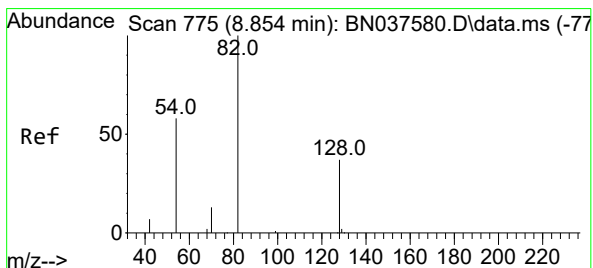
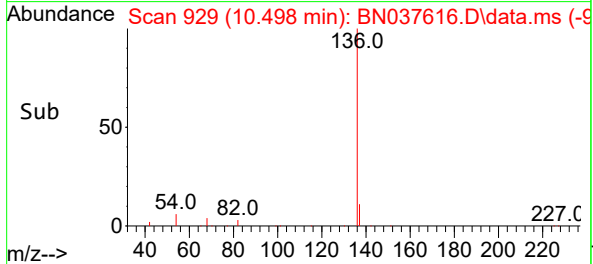
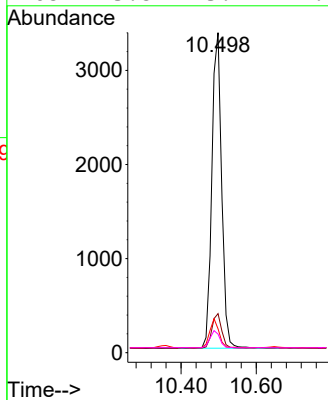
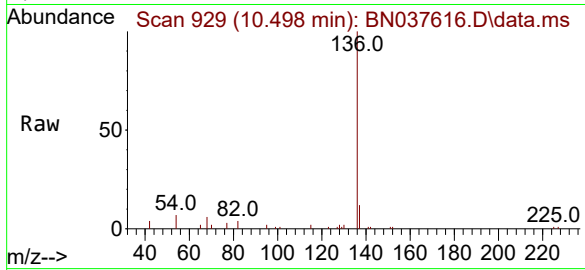




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

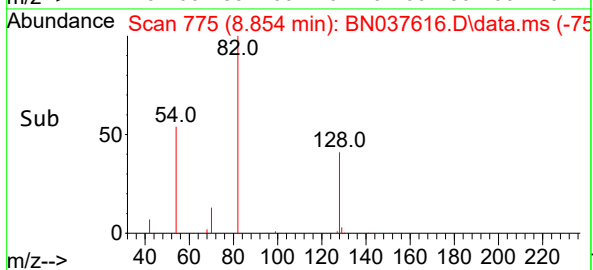
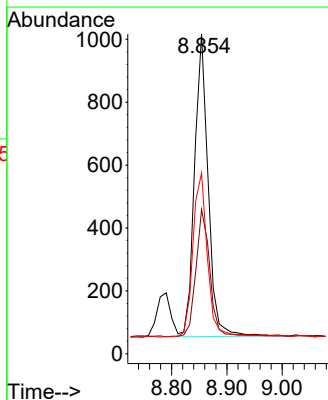
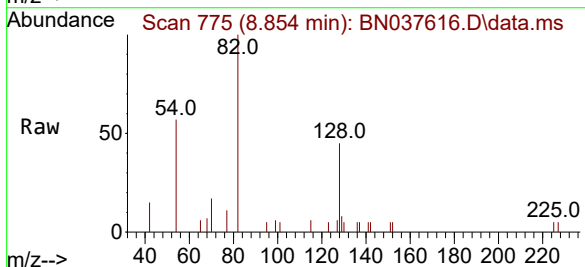
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

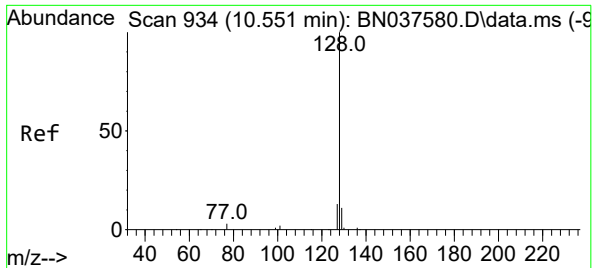
Tgt Ion:	136	Resp:	6091
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	7.5	7.3	10.9
68	5.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.383 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:	82	Resp:	1643
Ion	Ratio	Lower	Upper
82	100		
128	45.1	32.6	48.8
54	56.5	48.9	73.3

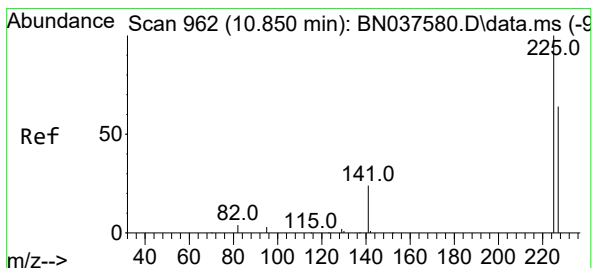
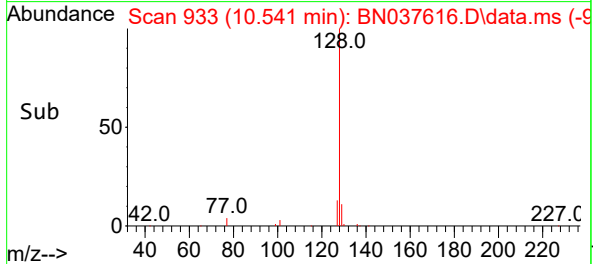
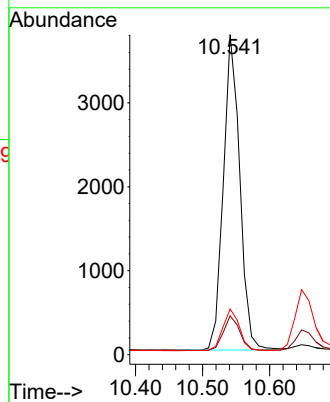
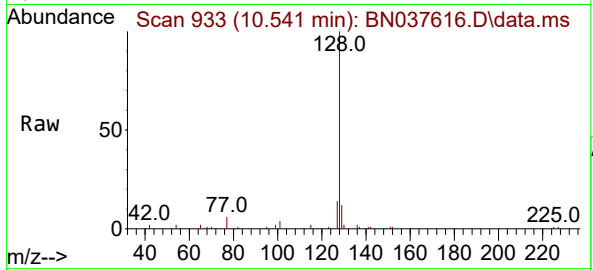




#9
Naphthalene
Concen: 0.395 ng
RT: 10.541 min Scan# 911
Delta R.T. -0.010 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

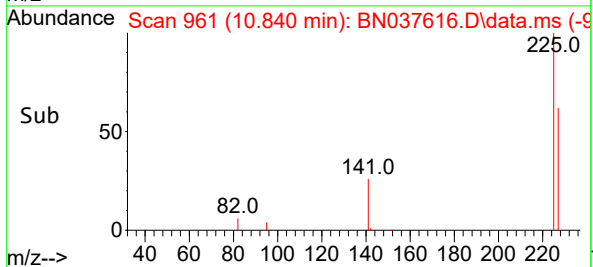
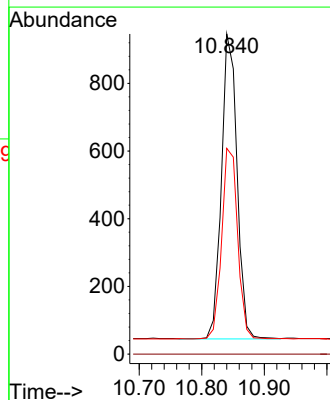
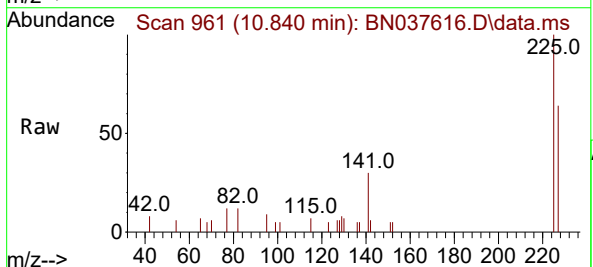
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

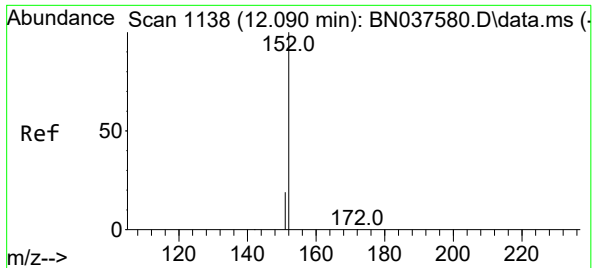
Tgt Ion:128 Resp: 6407
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.3 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.395 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:225 Resp: 1566
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.8 76.2

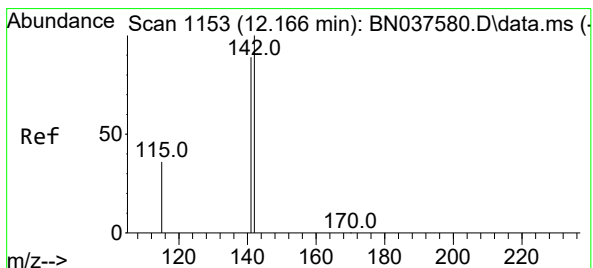
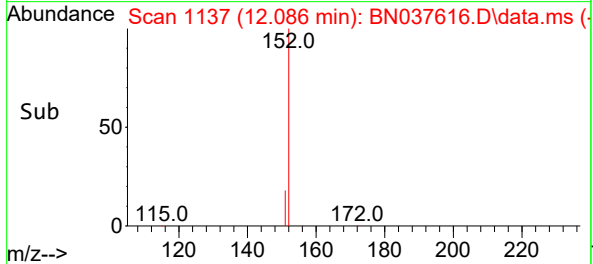
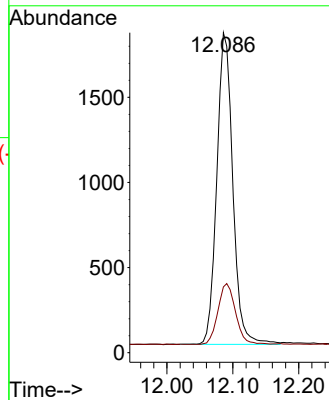
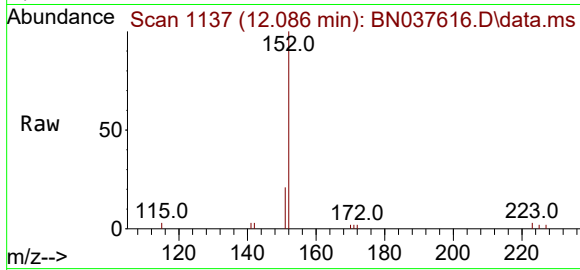




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

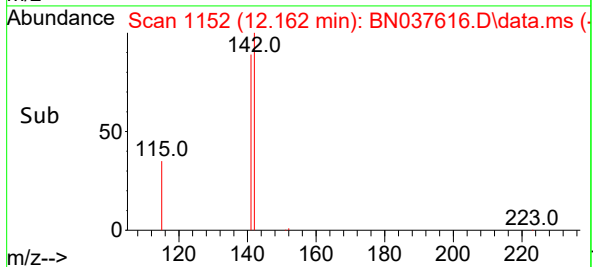
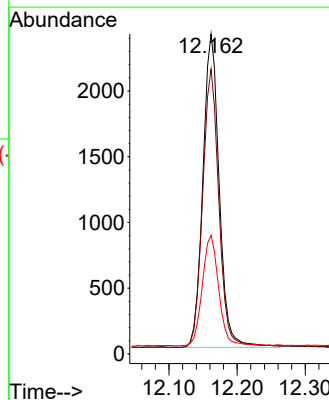
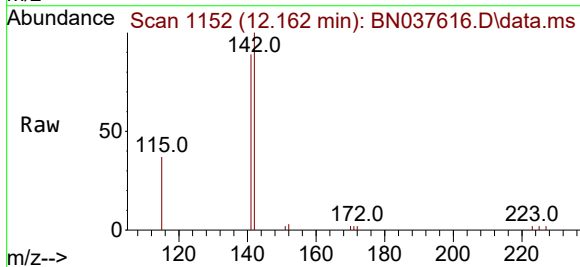
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

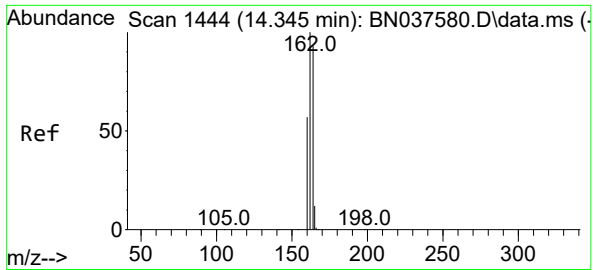
Tgt Ion:152 Resp: 3093
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.391 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:142 Resp: 3974
Ion Ratio Lower Upper
142 100
141 89.0 71.4 107.0
115 37.1 30.2 45.4

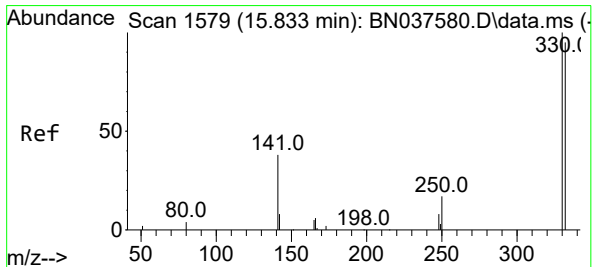
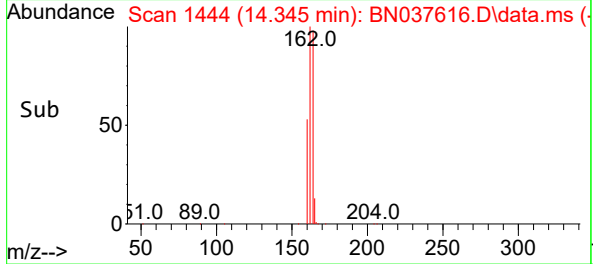
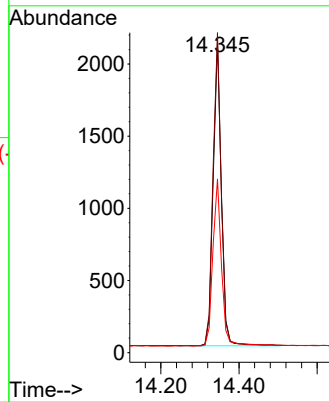
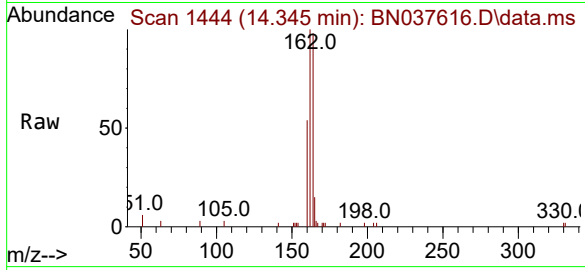




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

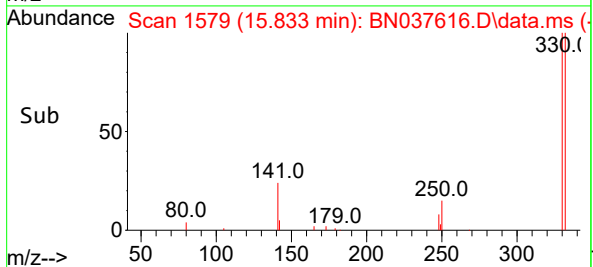
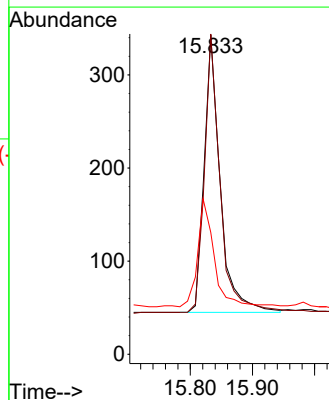
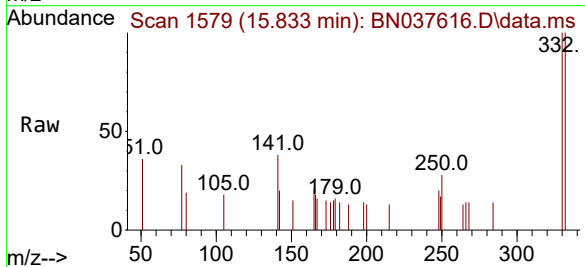
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

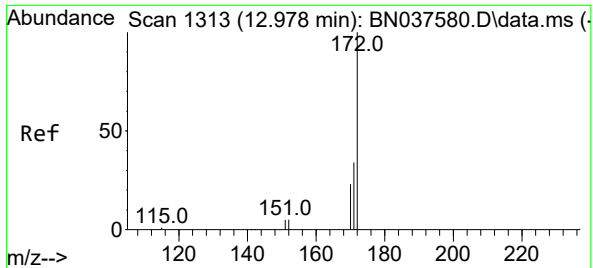
Tgt Ion:	164	Resp:	3098
Ion	Ratio	Lower	Upper
164	100		
162	102.5	85.5	128.3
160	55.7	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.397 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:	330	Resp:	538
Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.4	116.0
141	40.3	30.9	46.3

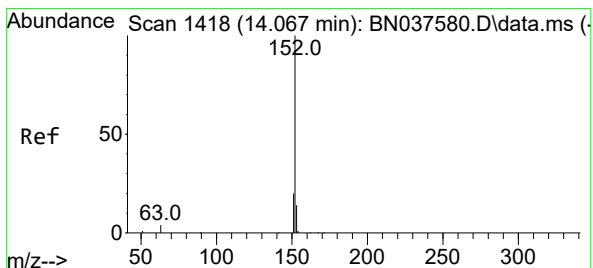
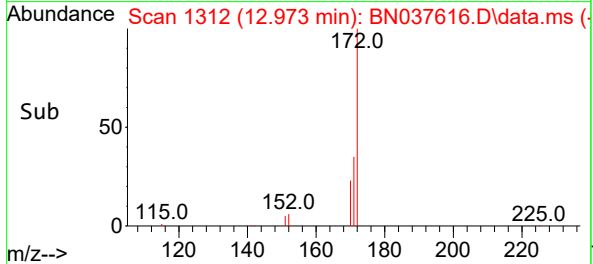
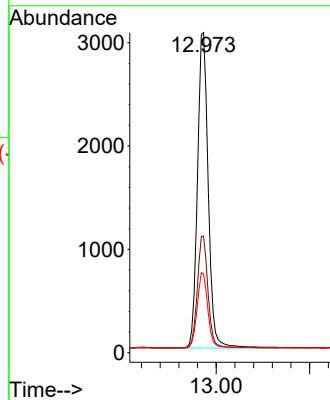
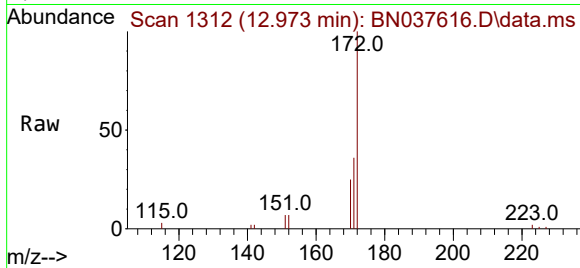




#15
2-Fluorobiphenyl
Concen: 0.393 ng
RT: 12.973 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

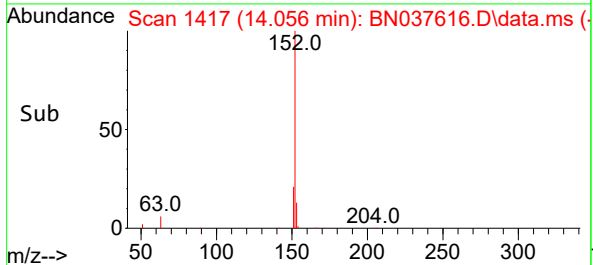
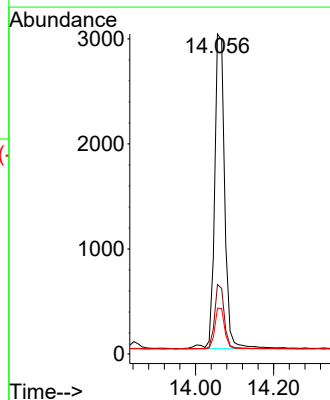
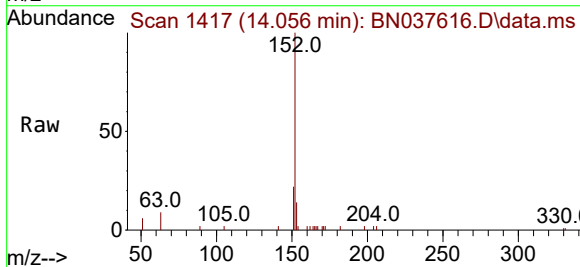
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

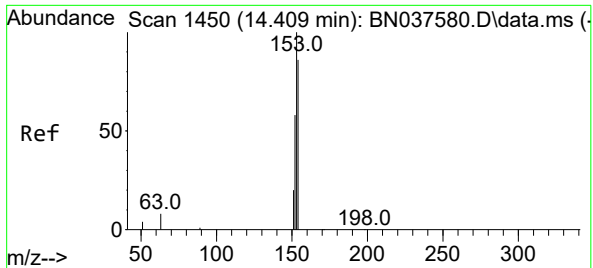
Tgt Ion:	172	Resp:	7049
Ion Ratio	Lower	Upper	
172	100		
171	36.5	28.2	42.4
170	24.6	19.2	28.8



#16
Acenaphthylene
Concen: 0.388 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.010 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:	152	Resp:	5383
Ion Ratio	Lower	Upper	
152	100		
151	19.6	16.1	24.1
153	13.0	10.7	16.1

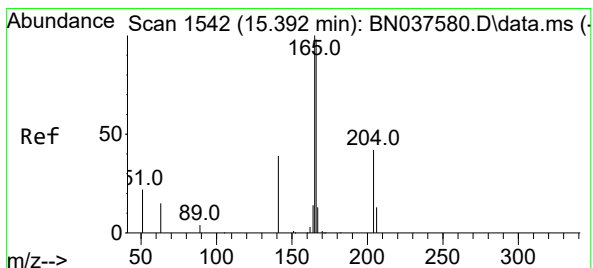
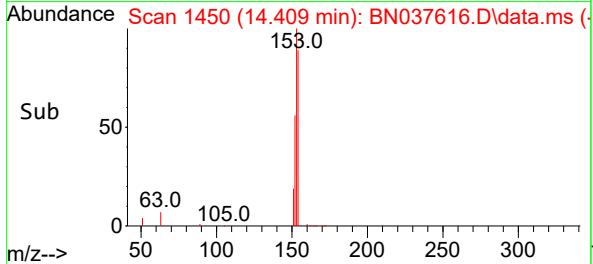
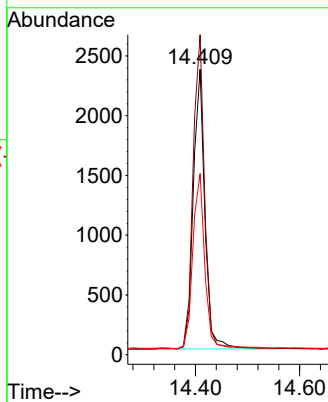
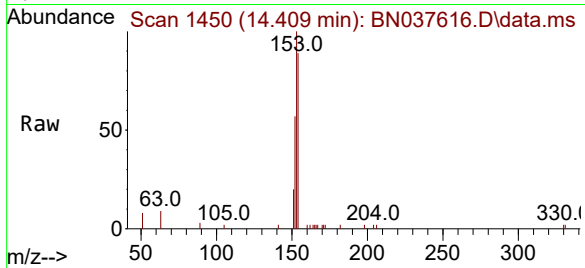




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

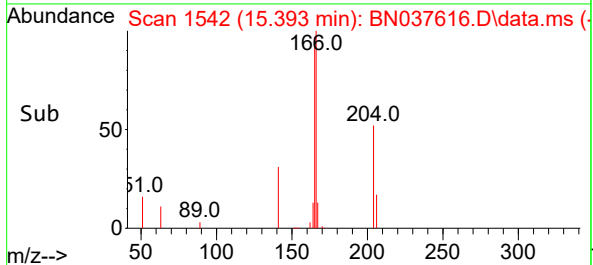
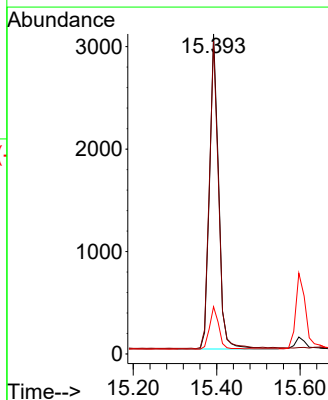
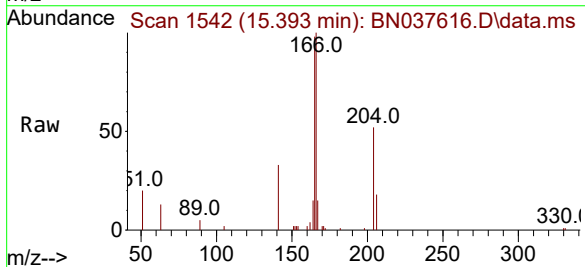
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

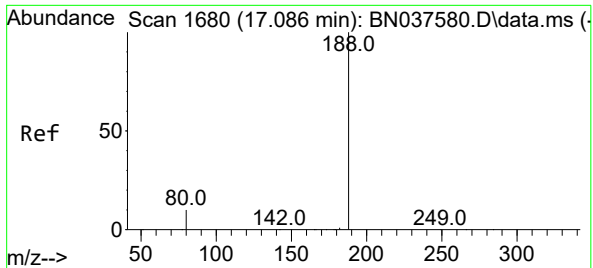
Tgt Ion:154 Resp: 3619
Ion Ratio Lower Upper
154 100
153 112.3 90.6 135.8
152 64.7 54.9 82.3



#18
Fluorene
Concen: 0.382 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:166 Resp: 4725
Ion Ratio Lower Upper
166 100
165 96.0 78.9 118.3
167 13.7 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

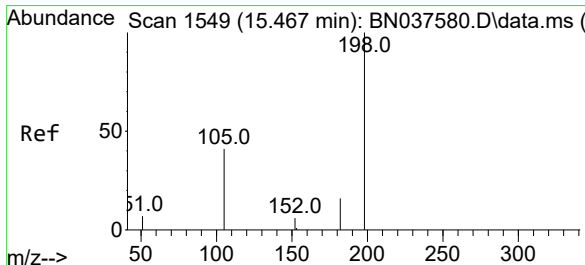
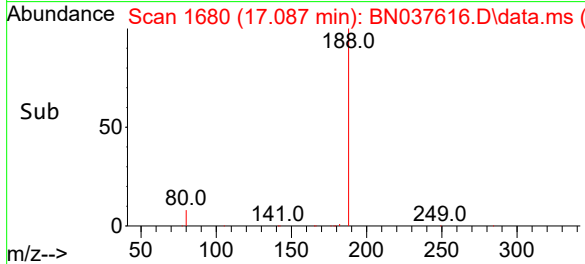
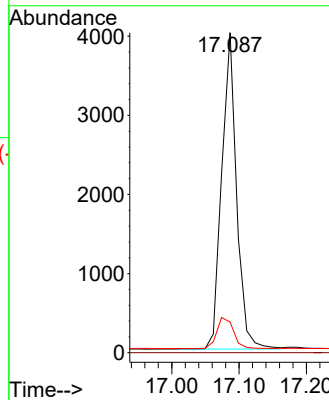
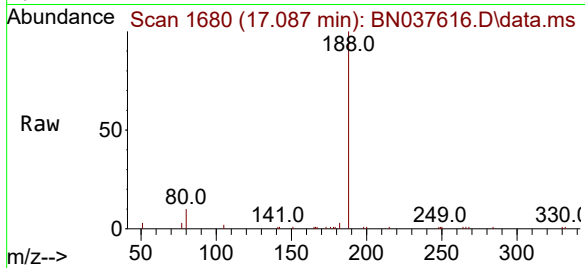
Tgt Ion:188 Resp: 6111

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.426 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

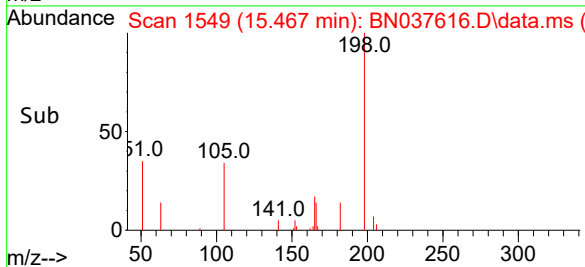
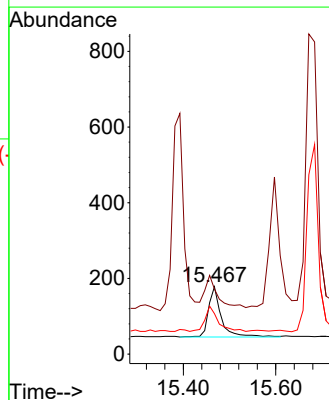
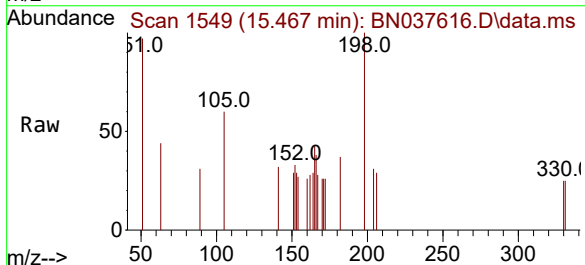
Tgt Ion:198 Resp: 272

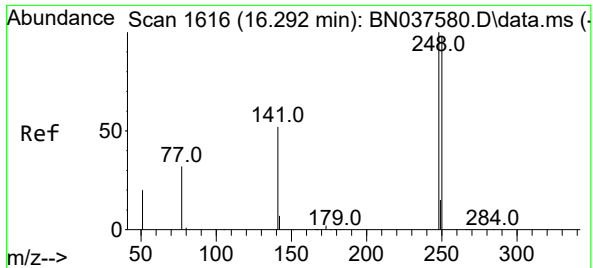
Ion Ratio Lower Upper

198 100

51 96.6 81.0 121.6

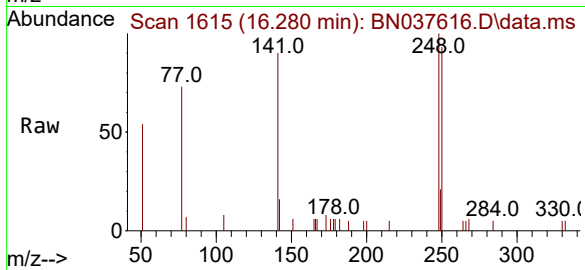
105 60.1 52.5 78.7



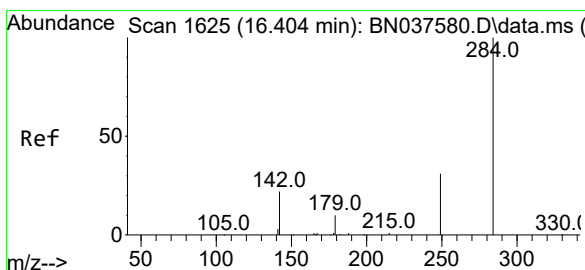
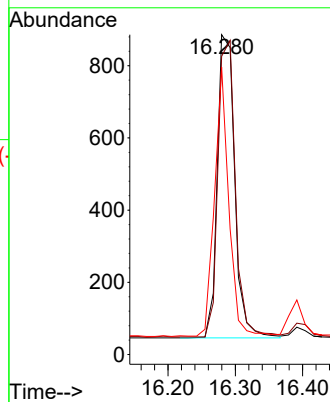
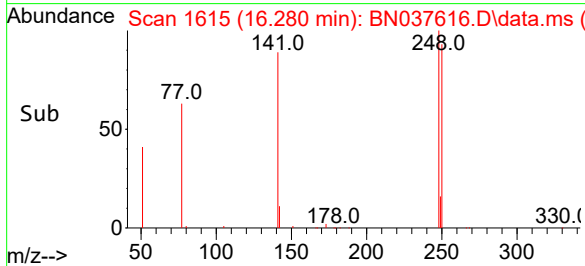


#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

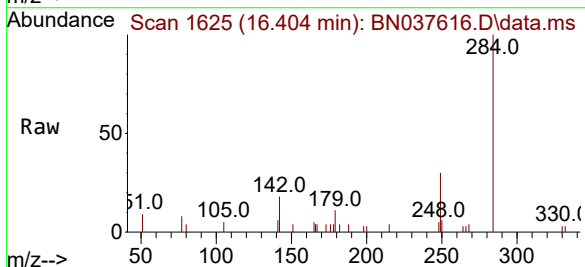
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



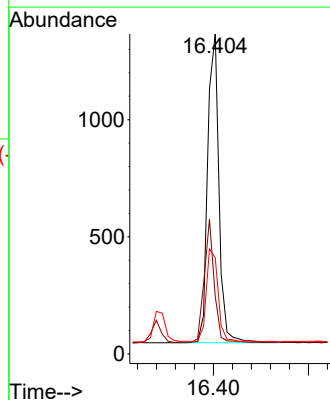
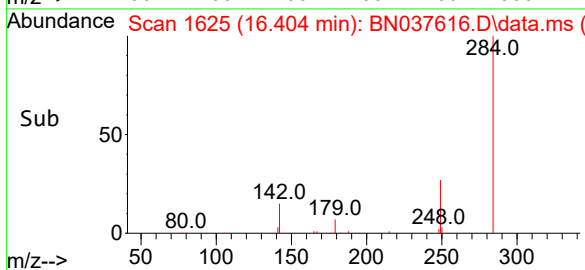
Tgt Ion:248 Resp: 1506
Ion Ratio Lower Upper
248 100
250 93.2 78.6 118.0
141 89.8 43.7 65.5#

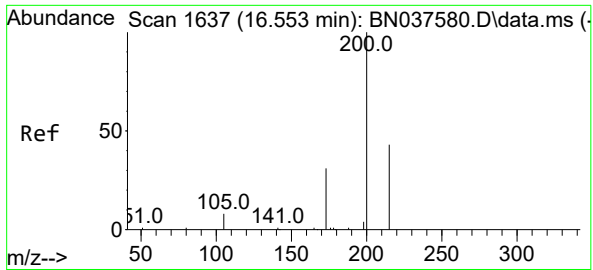


#22
Hexachlorobenzene
Concen: 0.401 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19



Tgt Ion:284 Resp: 2181
Ion Ratio Lower Upper
284 100
142 35.4 29.8 44.6
249 32.0 26.0 39.0

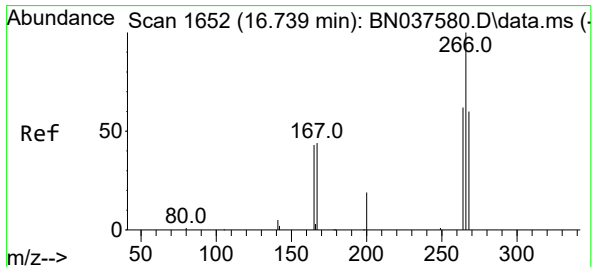
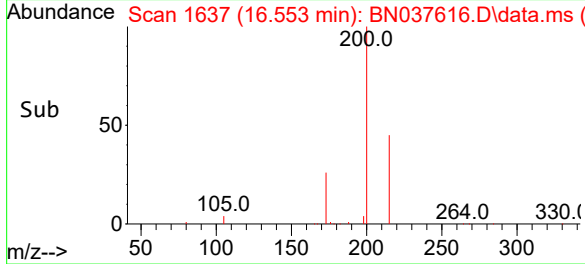
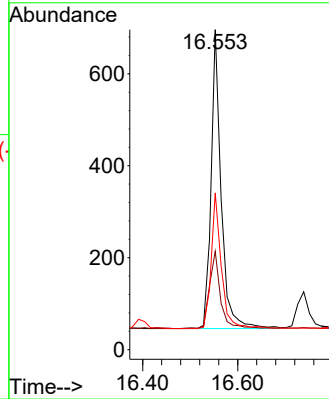
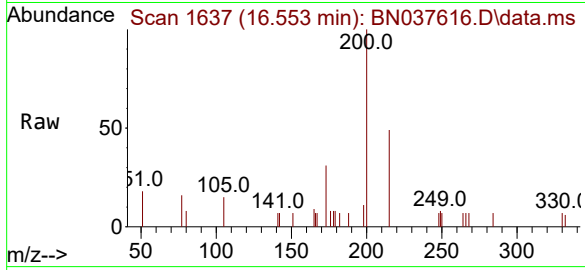




#23
Atrazine
Concen: 0.441 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

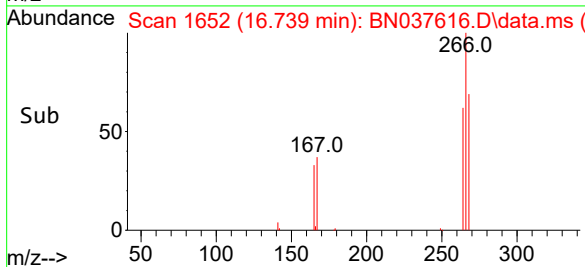
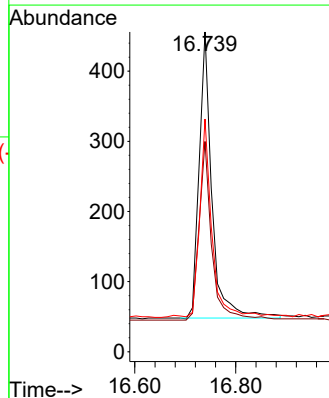
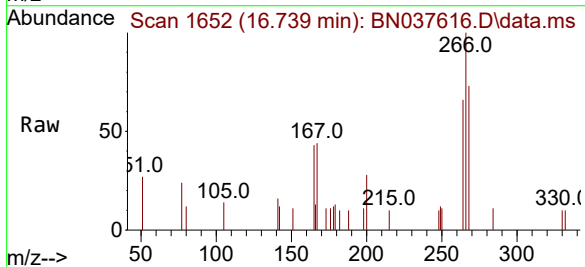
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

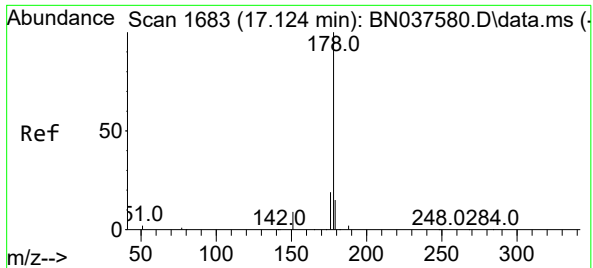
Tgt Ion:200 Resp: 958
Ion Ratio Lower Upper
200 100
173 30.7 31.0 46.4#
215 49.0 39.4 59.0



#24
Pentachlorophenol
Concen: 0.377 ng
RT: 16.739 min Scan# 1652
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:266 Resp: 720
Ion Ratio Lower Upper
266 100
264 62.1 49.6 74.4
268 67.1 49.2 73.8

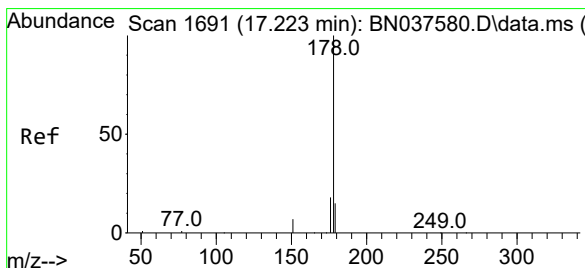
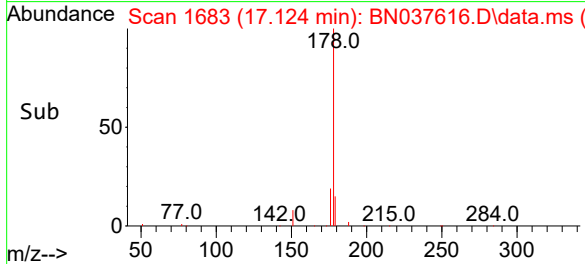
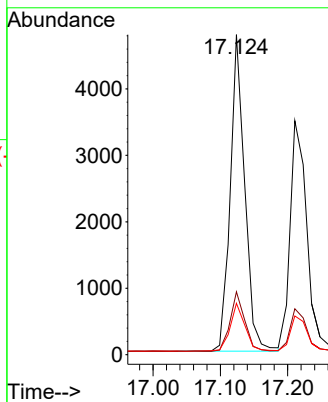
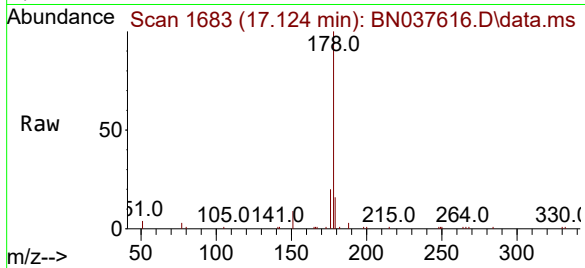




#25
Phenanthrene
Concen: 0.385 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

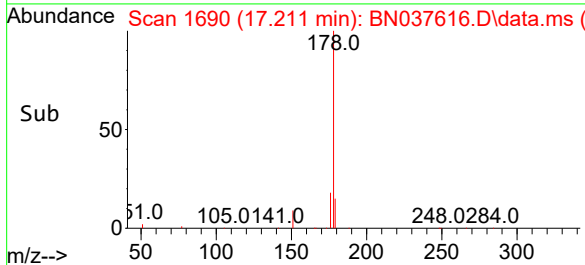
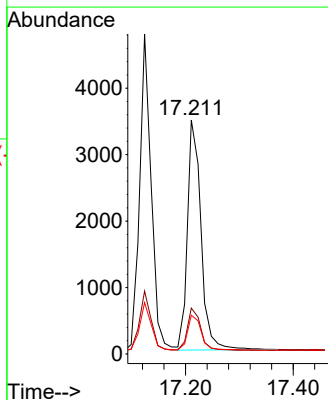
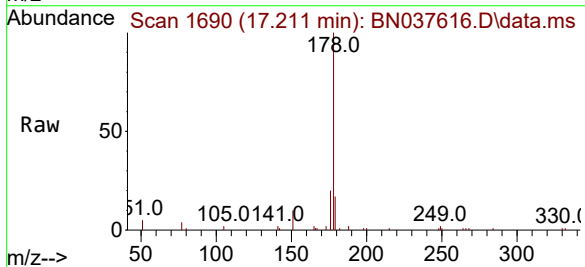
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

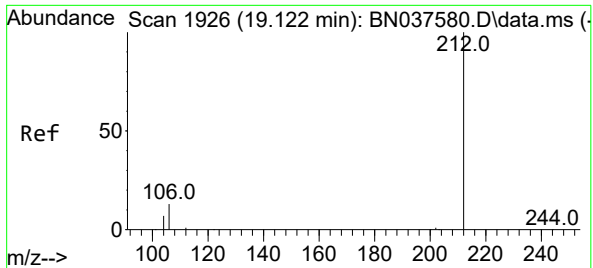
Tgt Ion:178 Resp: 7150
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.368 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:178 Resp: 6057
Ion Ratio Lower Upper
178 100
176 18.0 14.7 22.1
179 15.5 12.3 18.5

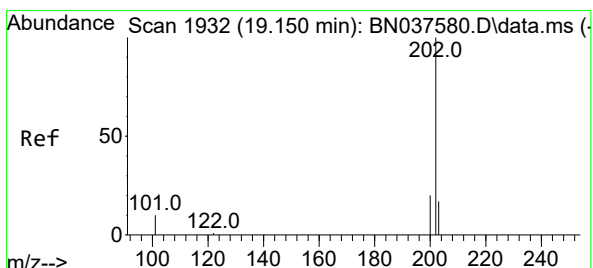
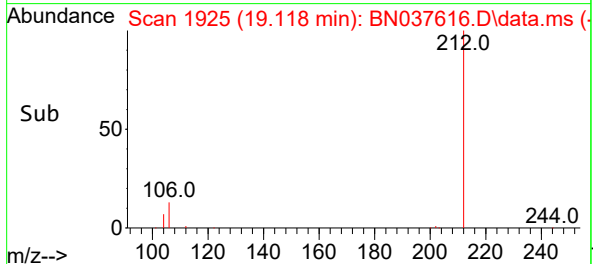
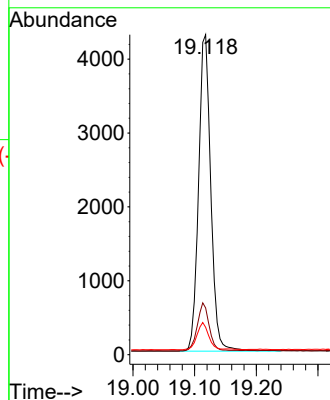
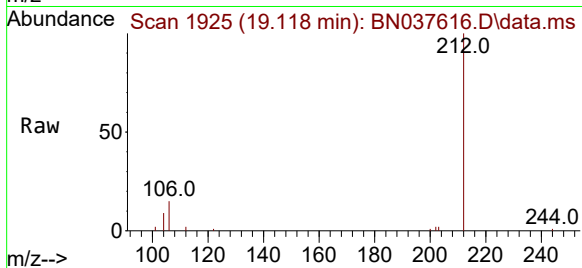




#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.004 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

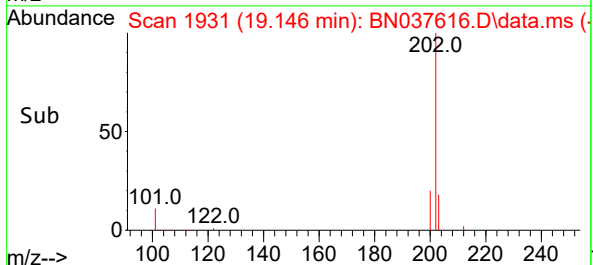
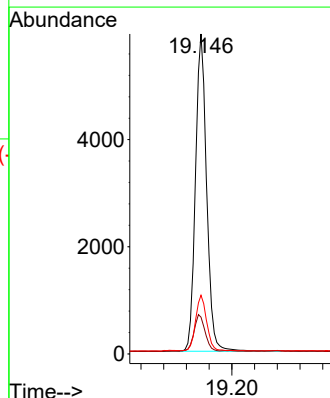
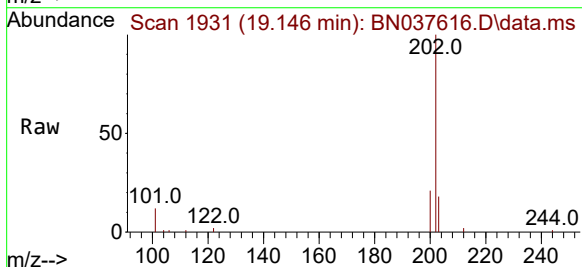
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

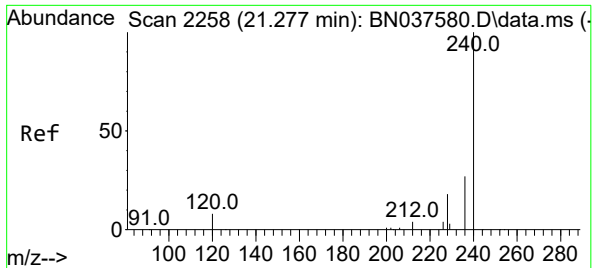
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.5	17.3
104	8.1	6.6	9.8



#28
Fluoranthene
Concen: 0.377 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	9.0	13.6
203	17.5	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

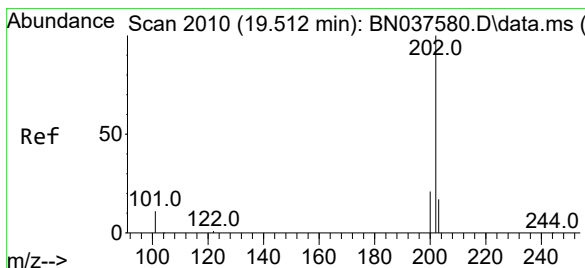
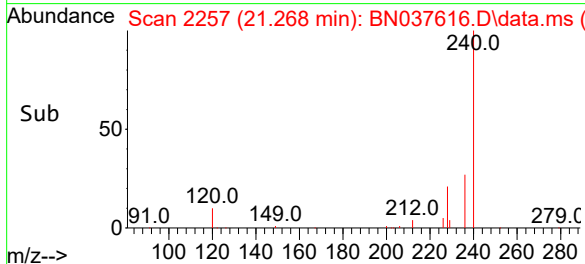
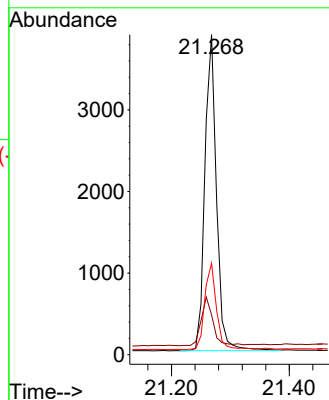
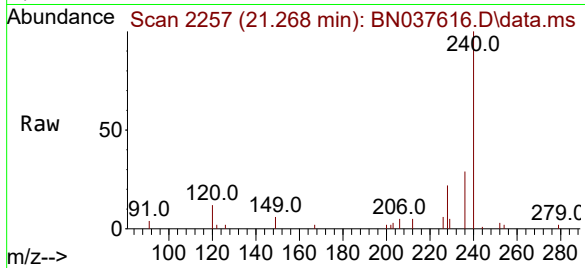
Tgt Ion:240 Resp: 5296

Ion Ratio Lower Upper

240 100

120 12.4 8.9 13.3

236 28.6 22.6 33.8



#30

Pyrene

Concen: 0.402 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.004 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

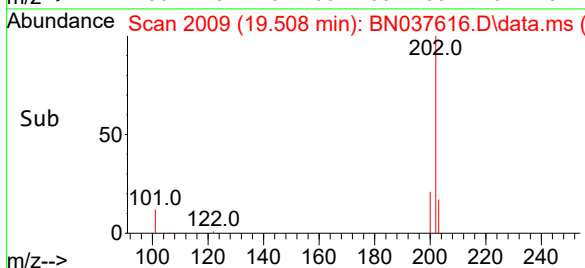
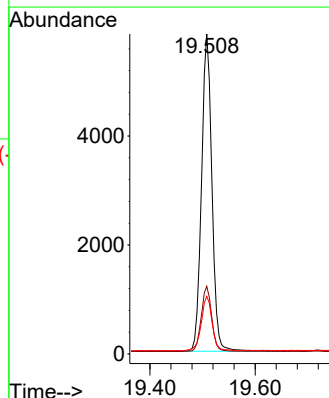
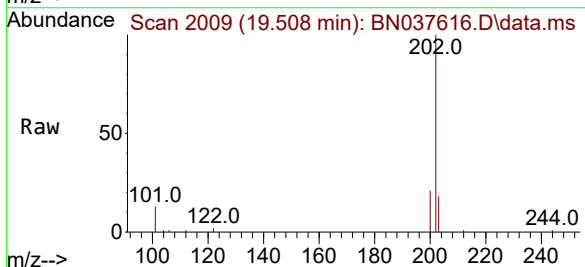
Tgt Ion:202 Resp: 7960

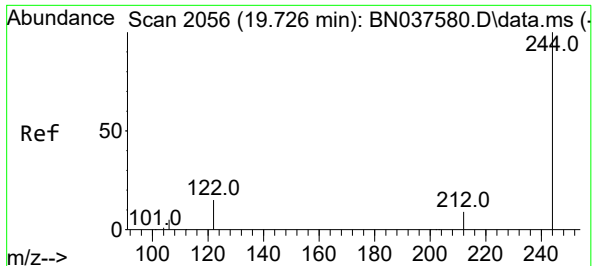
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.8 14.3 21.5

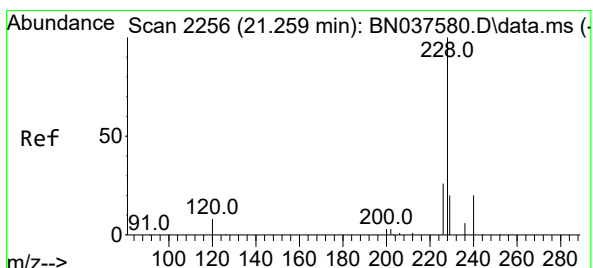
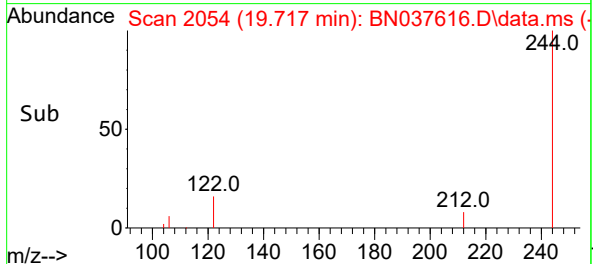
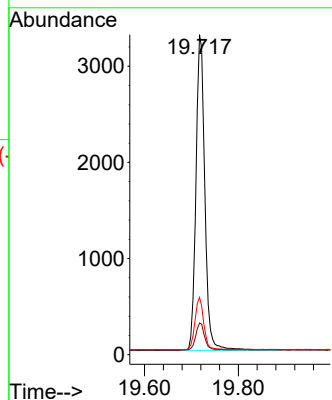
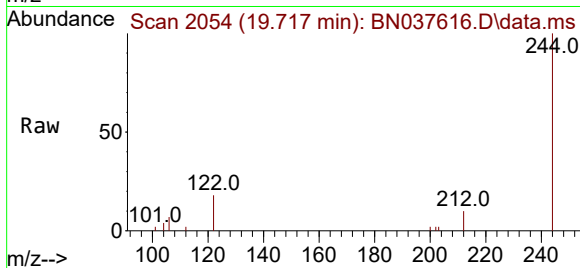




#31
Terphenyl-d14
Concen: 0.398 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

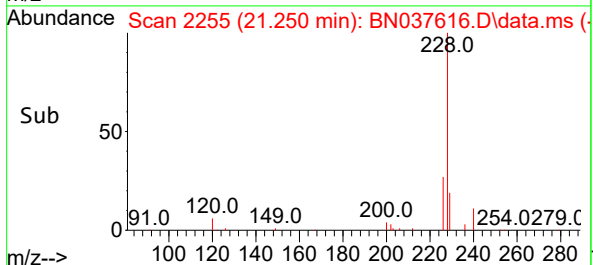
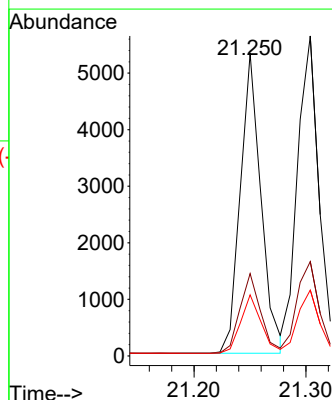
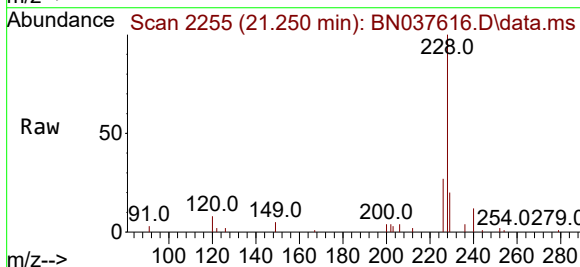
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

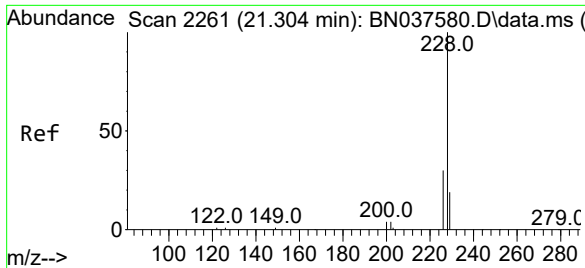
Tgt Ion:244 Resp: 4334
Ion Ratio Lower Upper
244 100
212 9.9 8.2 12.2
122 17.9 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:228 Resp: 6816
Ion Ratio Lower Upper
228 100
226 27.2 21.5 32.3
229 20.2 16.5 24.7





#33

Chrysene

Concen: 0.392 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

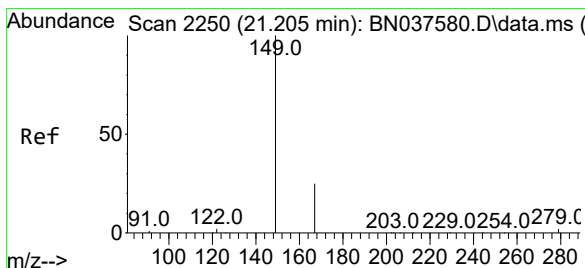
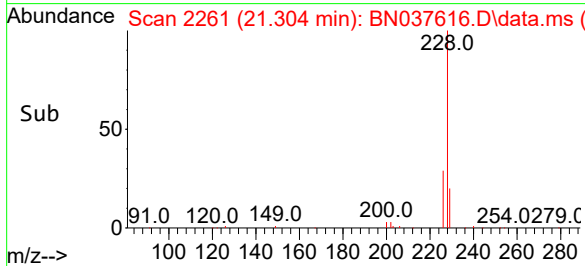
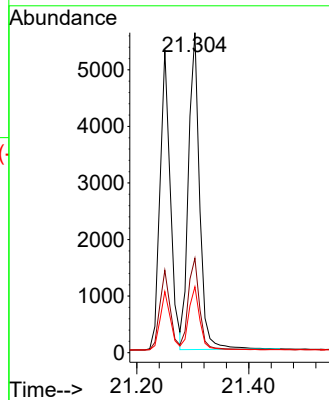
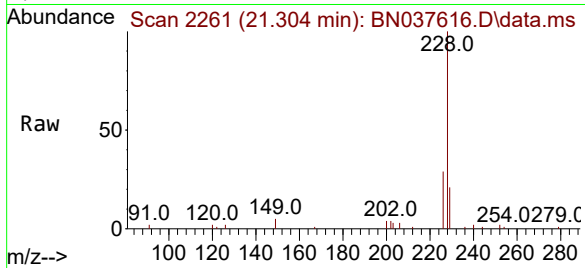
Tgt Ion:228 Resp: 7727

Ion Ratio Lower Upper

228 100

226 29.5 24.9 37.3

229 20.6 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.425 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

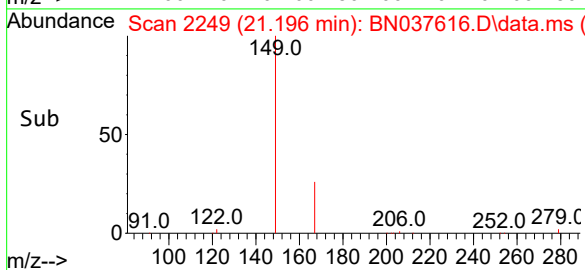
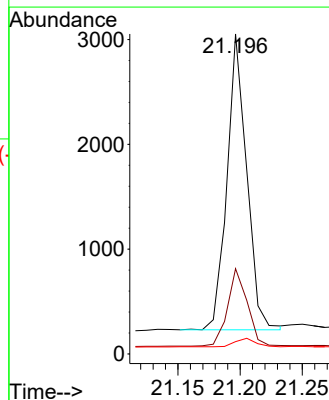
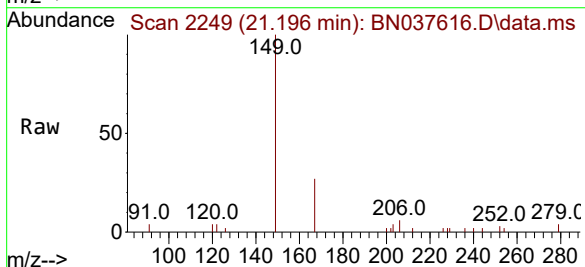
Tgt Ion:149 Resp: 3103

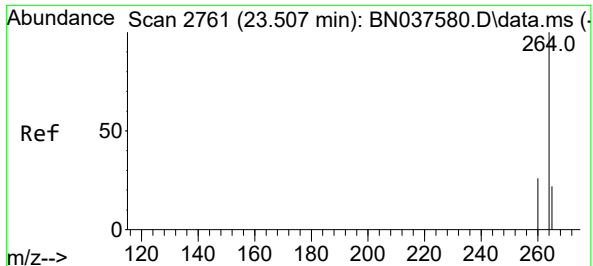
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

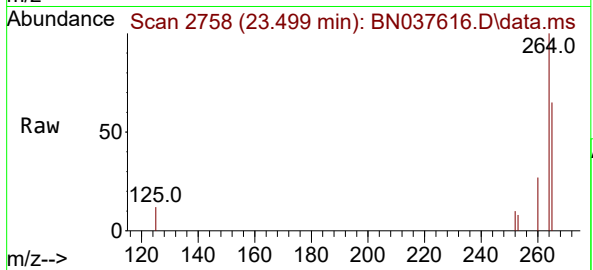
279 3.2 2.6 4.0



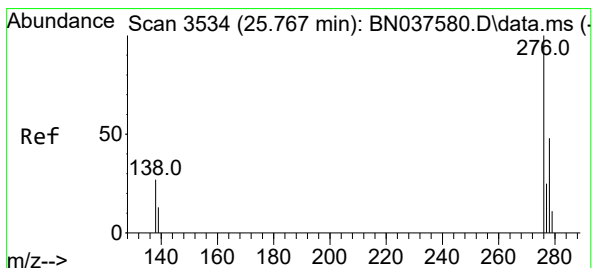
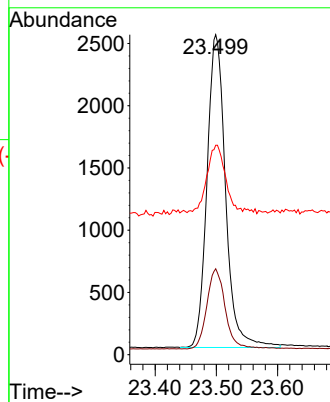
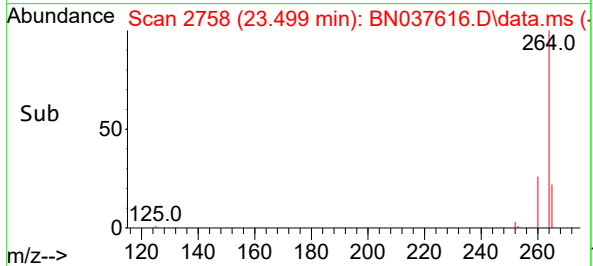


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

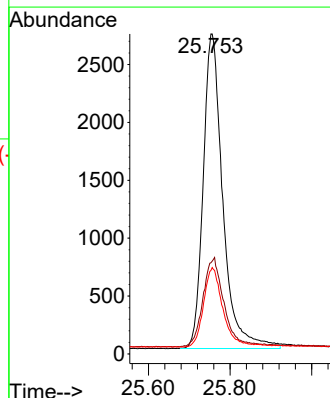
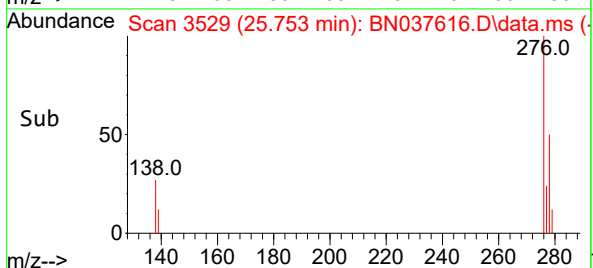
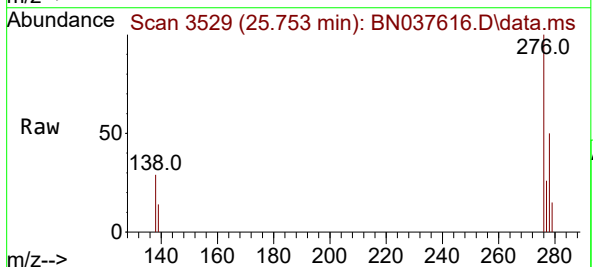


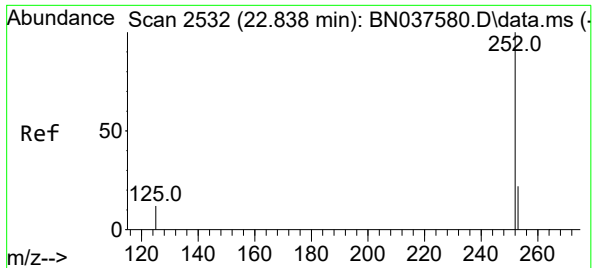
Tgt Ion:264 Resp: 5283
Ion Ratio Lower Upper
264 100
260 26.9 21.6 32.4
265 65.5 48.2 72.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.408 ng
RT: 25.753 min Scan# 3529
Delta R.T. -0.014 min
Lab File: BN037616.D
Acq: 19 Aug 2025 20:19

Tgt Ion:276 Resp: 9072
Ion Ratio Lower Upper
276 100
138 30.3 23.3 34.9
277 24.7 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.826 min Scan# 2528

Delta R.T. -0.011 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

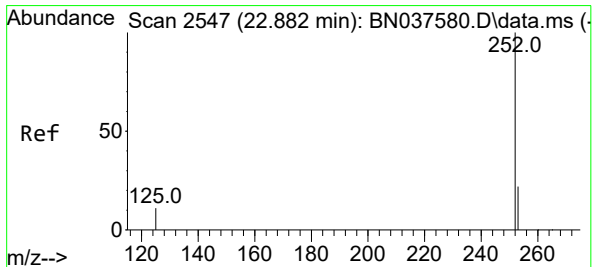
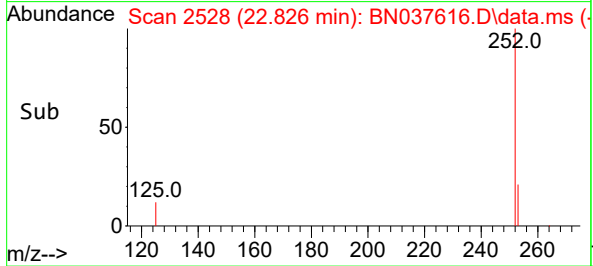
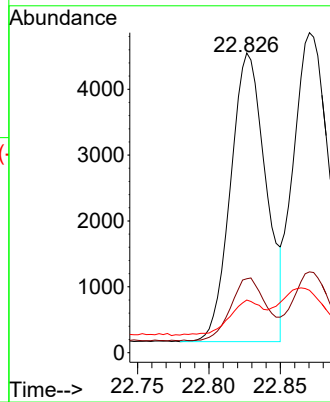
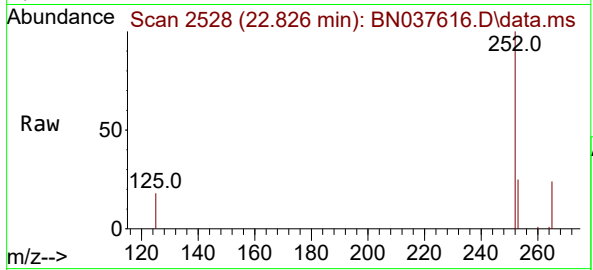
Tgt Ion:252 Resp: 7547

Ion Ratio Lower Upper

252 100

253 24.7 20.0 30.0

125 17.6 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.378 ng

RT: 22.870 min Scan# 2543

Delta R.T. -0.011 min

Lab File: BN037616.D

Acq: 19 Aug 2025 20:19

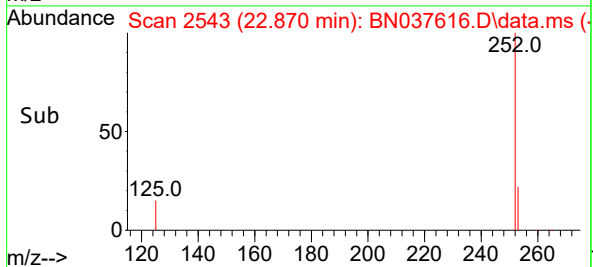
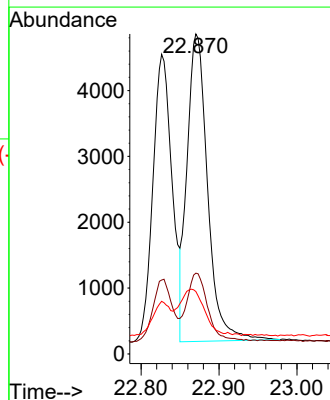
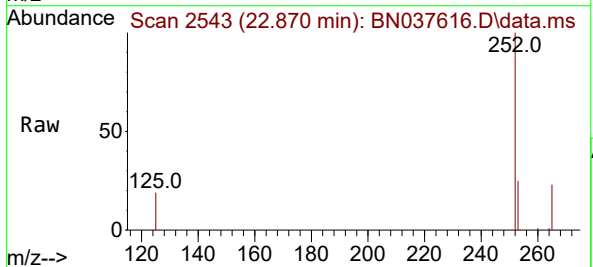
Tgt Ion:252 Resp: 8546

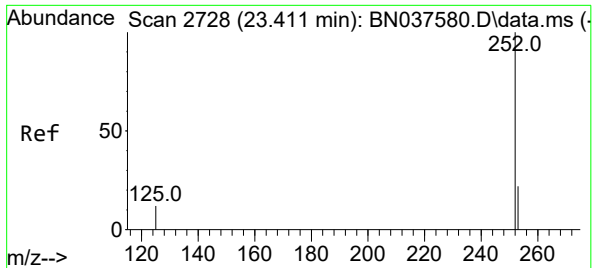
Ion Ratio Lower Upper

252 100

253 25.3 19.9 29.9

125 19.5 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.399 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN037616.D

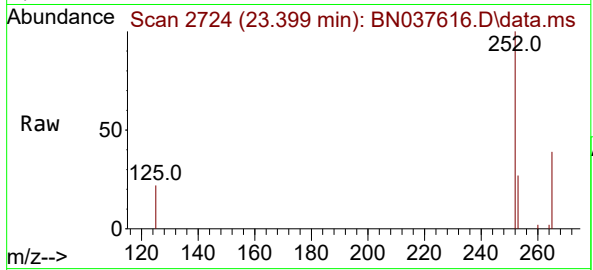
Acq: 19 Aug 2025 20:19

Instrument :

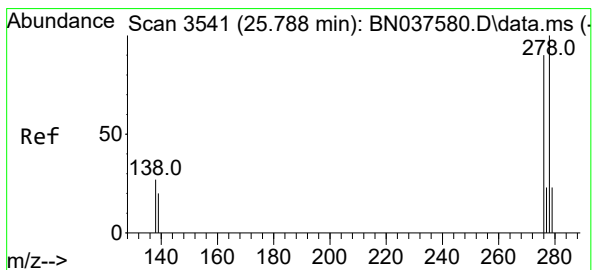
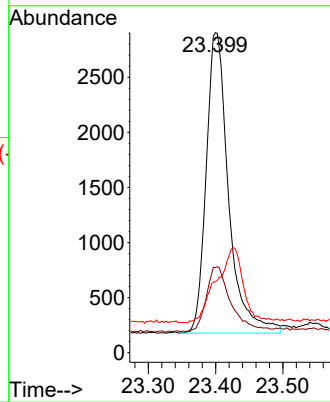
BNA_N

ClientSampleId :

SSTDCCC0.4EC



Tgt Ion:	252	Resp:	6313
Ion Ratio	Lower	Upper	
252	100		
253	26.6	21.6	32.4
125	22.2	16.8	25.2



#40

Dibenzo(a,h)anthracene

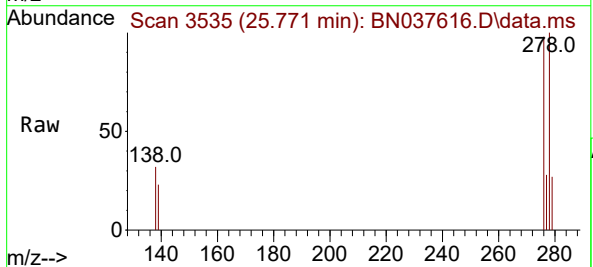
Concen: 0.399 ng

RT: 25.771 min Scan# 3535

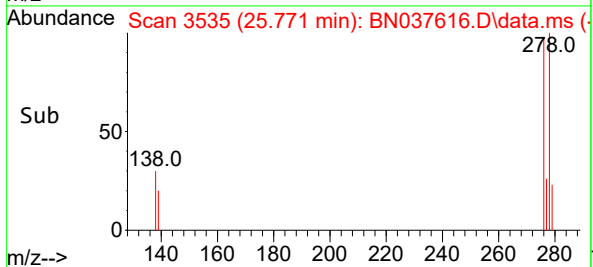
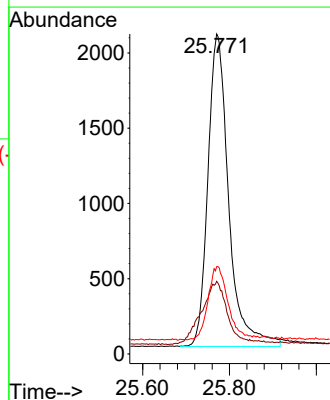
Delta R.T. -0.017 min

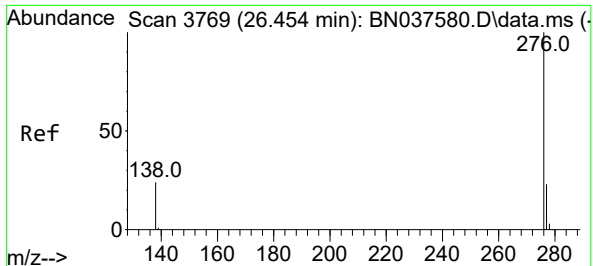
Lab File: BN037616.D

Acq: 19 Aug 2025 20:19



Tgt Ion:	278	Resp:	6890
Ion Ratio	Lower	Upper	
278	100		
139	22.7	18.3	27.5
279	27.3	22.5	33.7





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.446 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037616.D

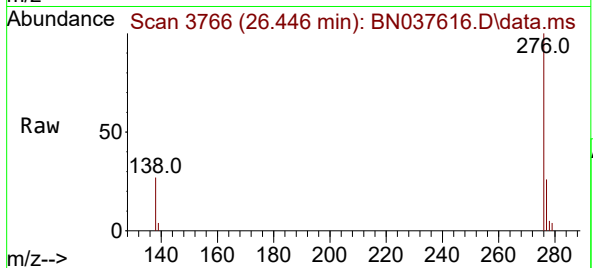
Acq: 19 Aug 2025 20:19

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



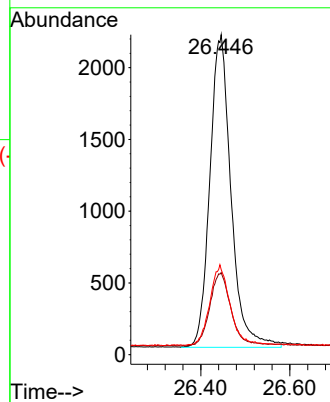
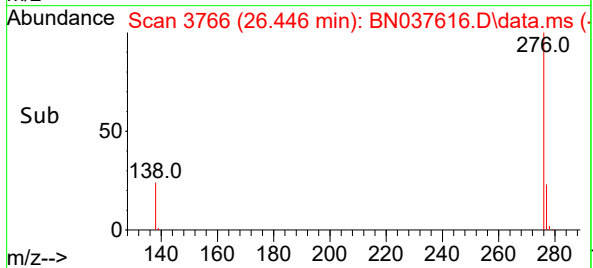
Tgt Ion:276 Resp: 7193

Ion Ratio Lower Upper

276 100

277 25.7 21.0 31.4

138 26.6 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037616.D
Acq On : 19 Aug 2025 20:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 01:30:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 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	118	0.00
2	1,4-Dioxane	0.383	0.398	-3.9	119	0.00
3	n-Nitrosodimethylamine	0.489	0.480	1.8	116	0.00
4 S	2-Fluorophenol	0.907	0.927	-2.2	123	0.00
5 S	Phenol-d6	1.091	1.101	-0.9	125	0.00
6	bis(2-Chloroethyl)ether	0.983	1.004	-2.1	122	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	119	0.00
8 S	Nitrobenzene-d5	0.282	0.270	4.3	122	0.00
9	Naphthalene	1.065	1.052	1.2	120	-0.01
10	Hexachlorobutadiene	0.260	0.257	1.2	116	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.508	6.6	119	0.00
12	2-Methylnaphthalene	0.668	0.652	2.4	122	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00
14 S	2,4,6-Tribromophenol	0.175	0.174	0.6	136	0.00
15 S	2-Fluorobiphenyl	2.313	2.275	1.6	121	0.00
16	Acenaphthylene	1.793	1.738	3.1	124	-0.01
17	Acenaphthene	1.220	1.168	4.3	122	0.00
18	Fluorene	1.596	1.525	4.4	122	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.045	15.1	118	0.00
21	4-Bromophenyl-phenylether	0.251	0.246	2.0	128	-0.01
22	Hexachlorobenzene	0.356	0.357	-0.3	122	0.00
23	Atrazine	0.142	0.157	-10.6	146	0.00
24	Pentachlorophenol	0.125	0.118	5.6	126	0.00
25	Phenanthrene	1.216	1.170	3.8	121	0.00
26	Anthracene	1.077	0.991	8.0	121	-0.01
27 SURR	Fluoranthene-d10	1.052	0.969	7.9	123	0.00
28	Fluoranthene	1.397	1.316	5.8	123	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	123	0.00
30	Pyrene	1.495	1.503	-0.5	126	0.00
31 S	Terphenyl-d14	0.823	0.818	0.6	126	0.00
32	Benzo(a)anthracene	1.336	1.287	3.7	125	0.00
33	Chrysene	1.489	1.459	2.0	125	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.586	-6.4	138	0.00
35 I	Perylene-d12	1.000	1.000	0.0	126	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.717	-1.8	134	-0.01
37	Benzo(b)fluoranthene	1.516	1.429	5.7	135	-0.01
38	Benzo(k)fluoranthene	1.710	1.618	5.4	124	-0.01
39 C	Benzo(a)pyrene	1.257	1.195	4.9	131	-0.01
40	Dibenzo(a,h)anthracene	1.308	1.304	0.3	135	-0.02
41	Benzo(g,h,i)perylene	1.378	1.362	1.2	136	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037616.D
Acq On : 19 Aug 2025 20:19
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 01:30:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 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	118	0.00
2	1,4-Dioxane	0.400	0.416	-4.0	119	0.00
3	n-Nitrosodimethylamine	0.400	0.393	1.8	116	0.00
4 S	2-Fluorophenol	0.400	0.409	-2.2	123	0.00
5 S	Phenol-d6	0.400	0.404	-1.0	125	0.00
6	bis(2-Chloroethyl)ether	0.400	0.408	-2.0	122	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	119	0.00
8 S	Nitrobenzene-d5	0.400	0.383	4.3	122	0.00
9	Naphthalene	0.400	0.395	1.3	120	-0.01
10	Hexachlorobutadiene	0.400	0.395	1.3	116	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.374	6.5	119	0.00
12	2-Methylnaphthalene	0.400	0.391	2.3	122	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	122	0.00
14 S	2,4,6-Tribromophenol	0.400	0.397	0.8	136	0.00
15 S	2-Fluorobiphenyl	0.400	0.393	1.8	121	0.00
16	Acenaphthylene	0.400	0.388	3.0	124	-0.01
17	Acenaphthene	0.400	0.383	4.3	122	0.00
18	Fluorene	0.400	0.382	4.5	122	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	121	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.426	-6.5	118	0.00
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	128	-0.01
22	Hexachlorobenzene	0.400	0.401	-0.3	122	0.00
23	Atrazine	0.400	0.441	-10.2	146	0.00
24	Pentachlorophenol	0.400	0.377	5.8	126	0.00
25	Phenanthrene	0.400	0.385	3.8	121	0.00
26	Anthracene	0.400	0.368	8.0	121	-0.01
27 SURR	Fluoranthene-d10	0.400	0.368	8.0	123	0.00
28	Fluoranthene	0.400	0.377	5.8	123	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	123	0.00
30	Pyrene	0.400	0.402	-0.5	126	0.00
31 S	Terphenyl-d14	0.400	0.398	0.5	126	0.00
32	Benzo(a)anthracene	0.400	0.385	3.8	125	0.00
33	Chrysene	0.400	0.392	2.0	125	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.425	-6.2	138	0.00
35 I	Perylene-d12	0.400	0.400	0.0	126	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.408	-2.0	134	-0.01
37	Benzo(b)fluoranthene	0.400	0.377	5.8	135	-0.01
38	Benzo(k)fluoranthene	0.400	0.378	5.5	124	-0.01
39 C	Benzo(a)pyrene	0.400	0.380	5.0	131	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.399	0.3	135	-0.02
41	Benzo(g,h,i)perylene	0.400	0.395	1.3	136	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: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2881
 Instrument ID: BNA_N Calibration Date/Time: 08/20/2025 04:14
 Lab File ID: BN037618.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.498		-8.5	20.0
Fluoranthene-d10	1.052	0.951		-9.6	20.0
2-Fluorophenol	0.907	0.875		-3.5	20.0
Phenol-d6	1.091	1.045		-4.2	20.0
Nitrobenzene-d5	0.282	0.281		-0.4	20.0
2-Fluorobiphenyl	2.313	2.246		-2.9	20.0
2,4,6-Tribromophenol	0.175	0.175		0.0	20.0
Terphenyl-d14	0.823	0.793		-3.6	20.0
1,4-Dioxane	0.383	0.380		-0.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037618.D
 Acq On : 20 Aug 2025 04:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Aug 20 06:13:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

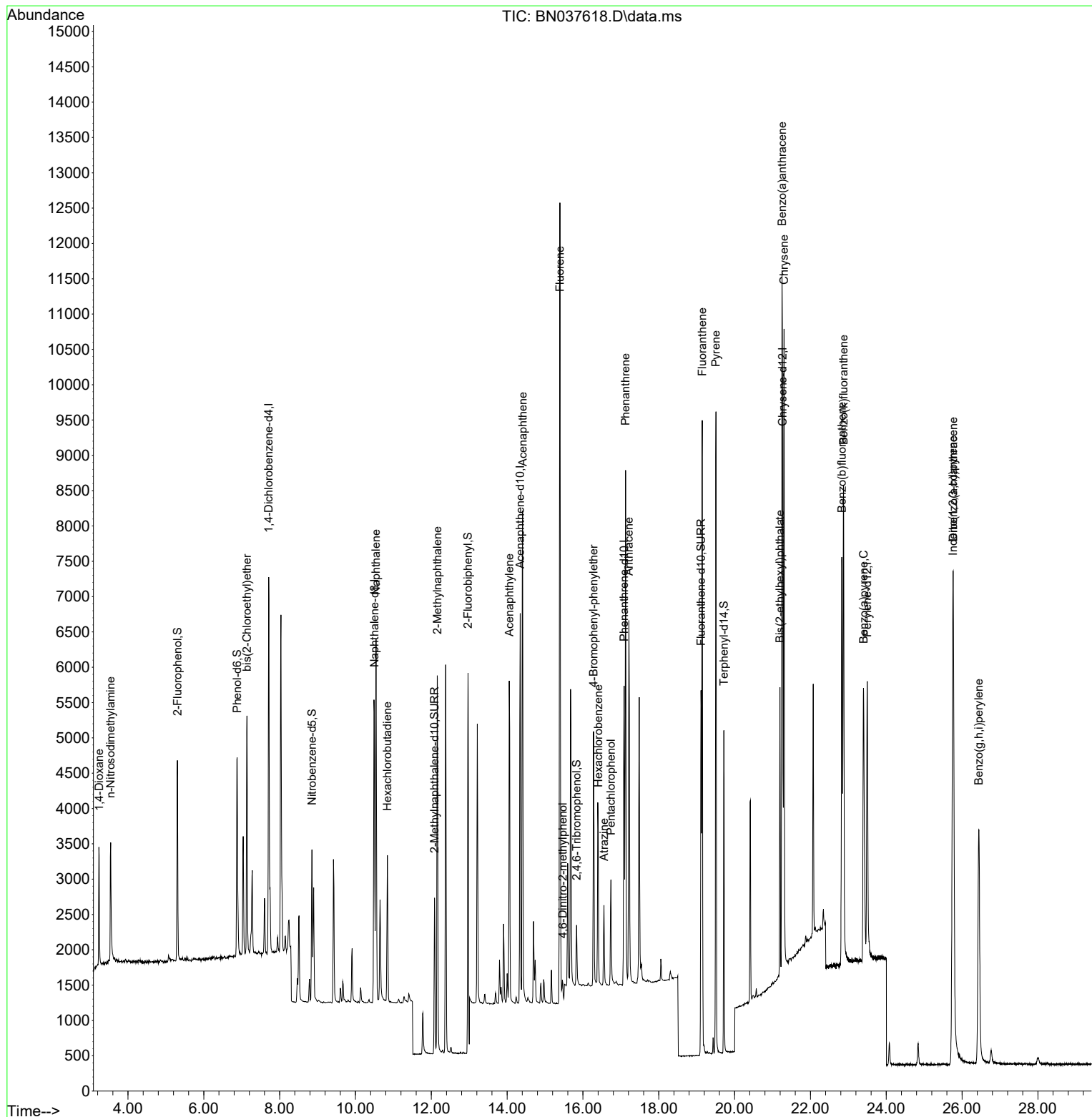
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2622	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	6166	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	3094	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	6113	0.400	ng	# 0.00
29) Chrysene-d12	21.268	240	5494	0.400	ng	0.00
35) Perylene-d12	23.499	264	5322	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2293	0.386	ng	0.00
5) Phenol-d6	6.879	99	2739	0.383	ng	0.00
8) Nitrobenzene-d5	8.854	82	1733	0.399	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	3068	0.366	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	541	0.400	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	6948	0.388	ng	0.00
27) Fluoranthene-d10	19.113	212	5813	0.361	ng	0.00
31) Terphenyl-d14	19.717	244	4354	0.385	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	996	0.397	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.543	42	1251	0.390	ng	98
6) bis(2-Chloroethyl)ether	7.139	93	2522	0.391	ng	97
9) Naphthalene	10.541	128	6581	0.401	ng	100
10) Hexachlorobutadiene	10.840	225	1692	0.422	ng	# 100
12) 2-Methylnaphthalene	12.162	142	3979	0.386	ng	99
16) Acenaphthylene	14.056	152	5458	0.394	ng	99
17) Acenaphthene	14.409	154	3630	0.385	ng	99
18) Fluorene	15.392	166	4767	0.386	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	208	0.368	ng	95
21) 4-Bromophenyl-phenylether	16.280	248	1521	0.396	ng	# 82
22) Hexachlorobenzene	16.404	284	2290	0.420	ng	98
23) Atrazine	16.553	200	941	0.433	ng	# 92
24) Pentachlorophenol	16.739	266	807	0.422	ng	95
25) Phenanthrene	17.124	178	7226	0.389	ng	100
26) Anthracene	17.211	178	6209	0.377	ng	100
28) Fluoranthene	19.146	202	8030	0.376	ng	99
30) Pyrene	19.508	202	8292	0.404	ng	100
32) Benzo(a)anthracene	21.250	228	7217	0.393	ng	99
33) Chrysene	21.304	228	7950	0.389	ng	97
34) Bis(2-ethylhexyl)phtha...	21.196	149	3567	0.471	ng	99
36) Indeno(1,2,3-cd)pyrene	25.756	276	9347	0.417	ng	98
37) Benzo(b)fluoranthene	22.829	252	7542	0.374	ng	100
38) Benzo(k)fluoranthene	22.873	252	8901	0.391	ng	98
39) Benzo(a)pyrene	23.399	252	6340	0.379	ng	98
40) Dibenzo(a,h)anthracene	25.768	278	7121	0.409	ng	99
41) Benzo(g,h,i)perylene	26.440	276	7272	0.397	ng	99

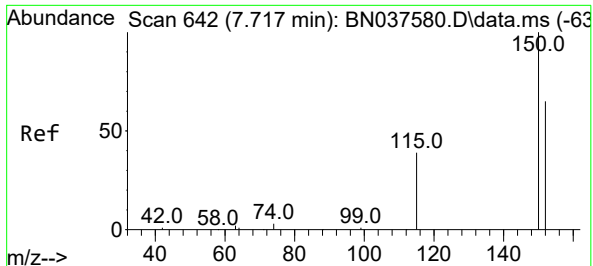
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037618.D
Acq On : 20 Aug 2025 04:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 20 06:13:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

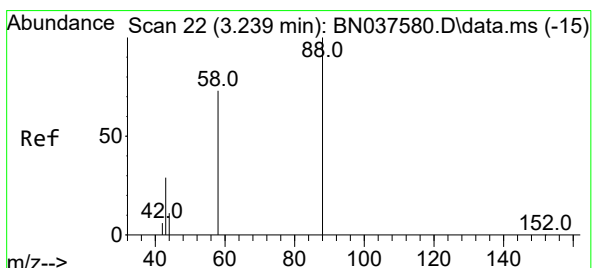
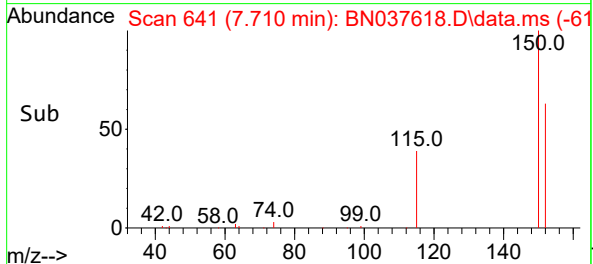
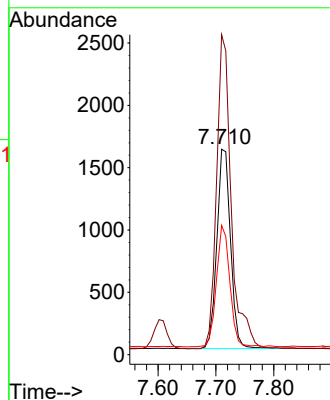
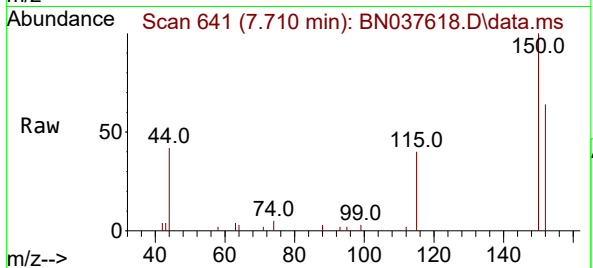




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

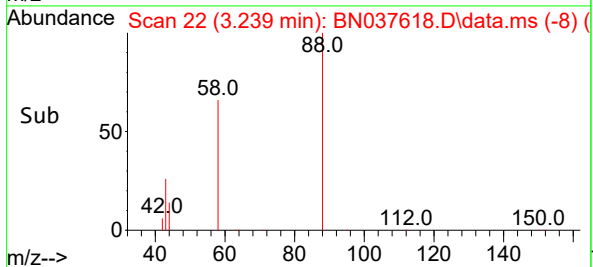
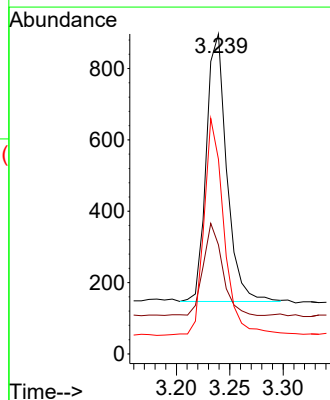
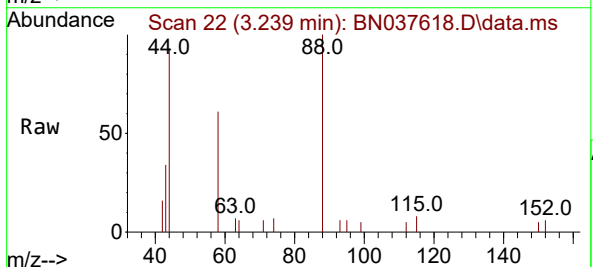
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

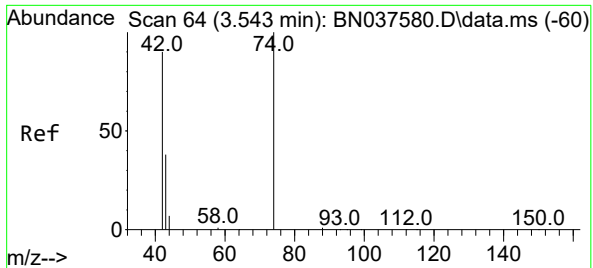
Tgt Ion:152 Resp: 2622
Ion Ratio Lower Upper
152 100
150 155.8 122.2 183.4
115 62.9 49.8 74.6



#2
1,4-Dioxane
Concen: 0.397 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion: 88 Resp: 996
Ion Ratio Lower Upper
88 100
43 32.3 25.8 38.6
58 80.3 61.2 91.8

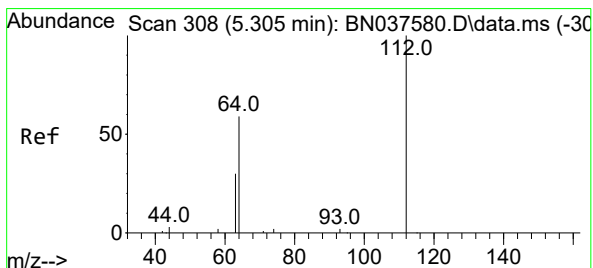
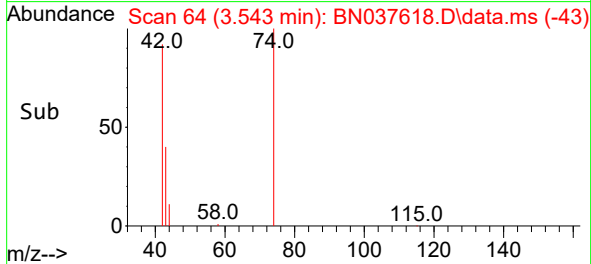
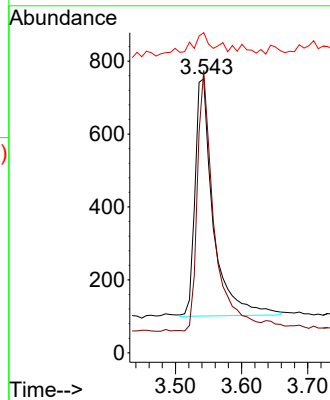
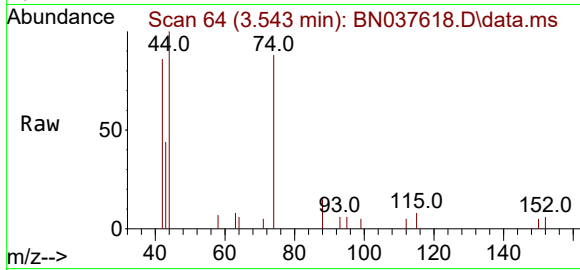




#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

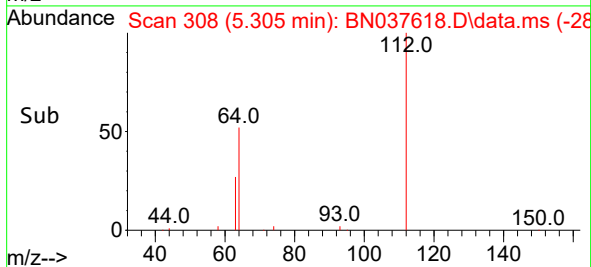
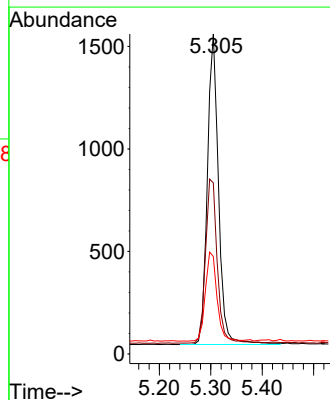
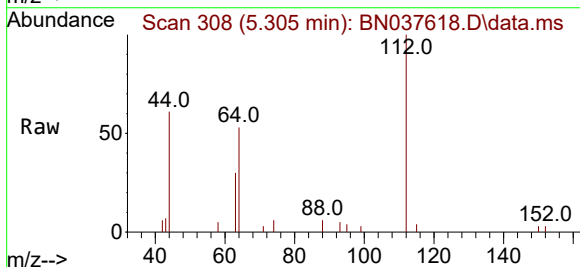
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

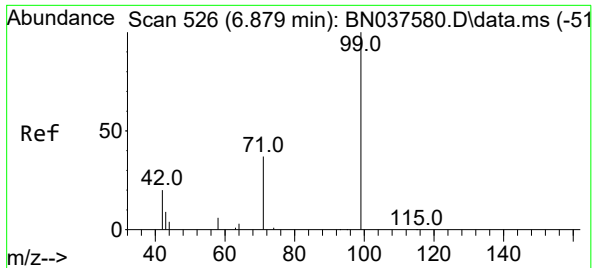
Tgt Ion: 42 Resp: 1251
Ion Ratio Lower Upper
42 100
74 100.6 82.0 123.0
44 10.8 7.9 11.9



#4
2-Fluorophenol
Concen: 0.386 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion: 112 Resp: 2293
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 29.9 23.4 35.2

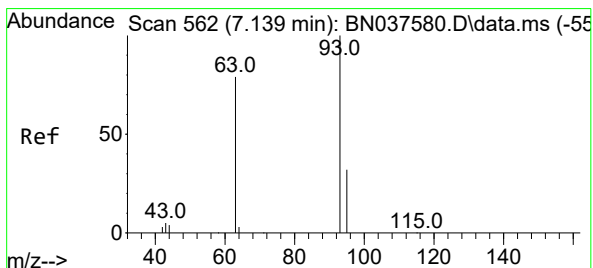
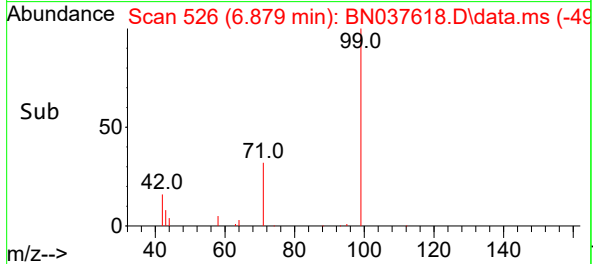
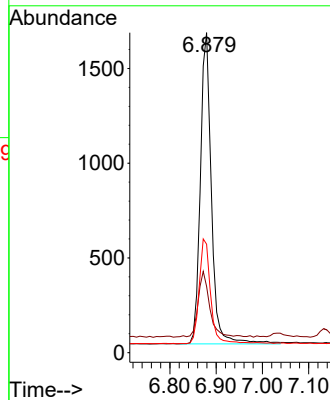
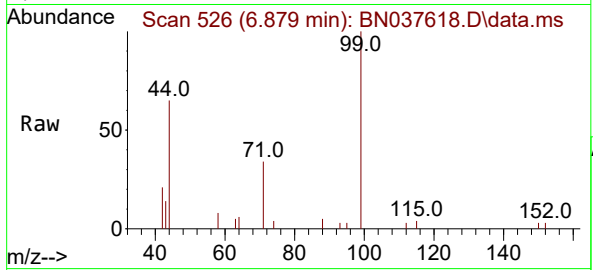




#5
Phenol-d6
Concen: 0.383 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

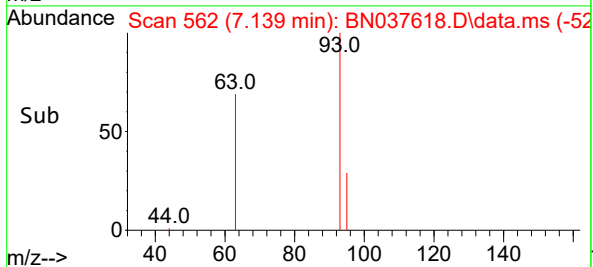
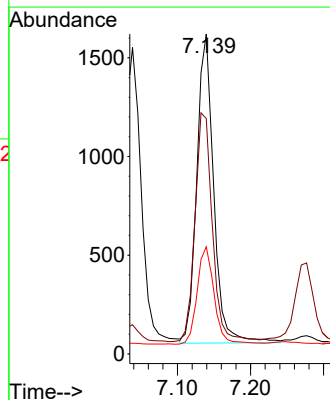
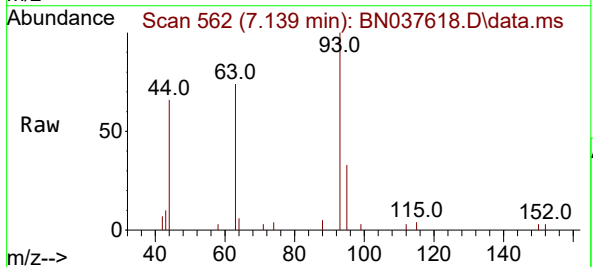
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

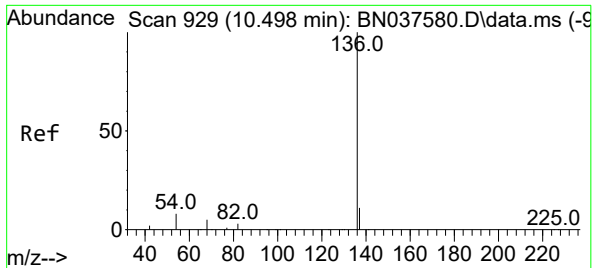
Tgt Ion: 99 Resp: 2739
Ion Ratio Lower Upper
99 100
42 21.9 18.5 27.7
71 34.3 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.391 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion: 93 Resp: 2522
Ion Ratio Lower Upper
93 100
63 76.0 58.0 87.0
95 31.7 24.9 37.3

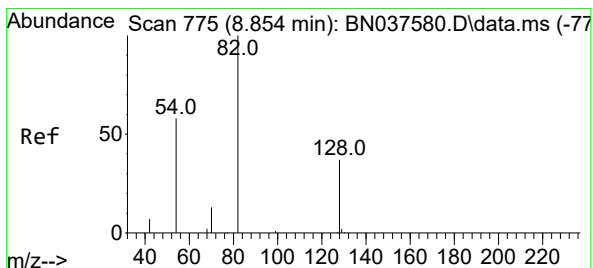
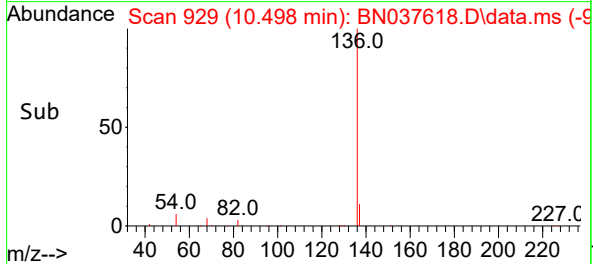
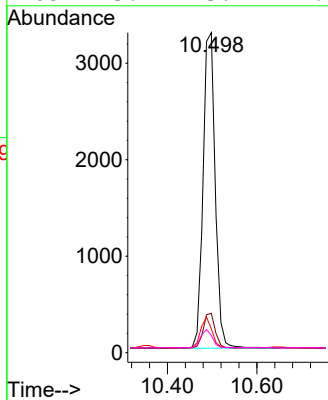
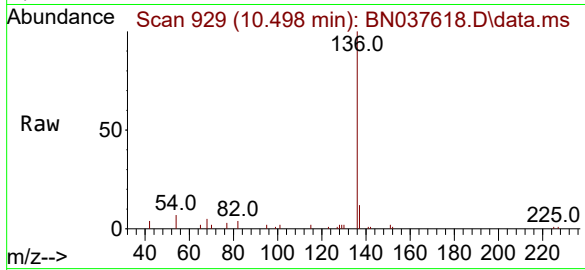




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

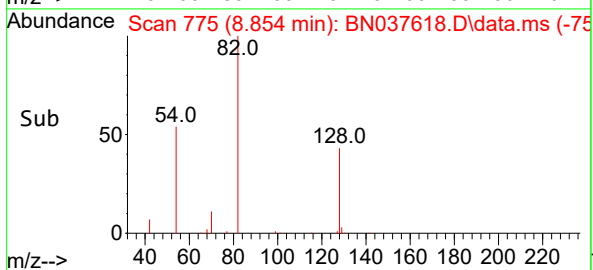
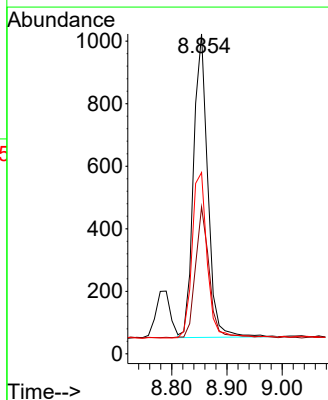
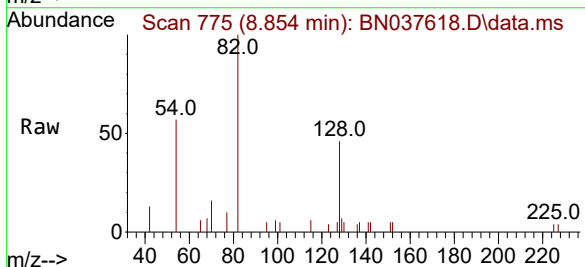
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

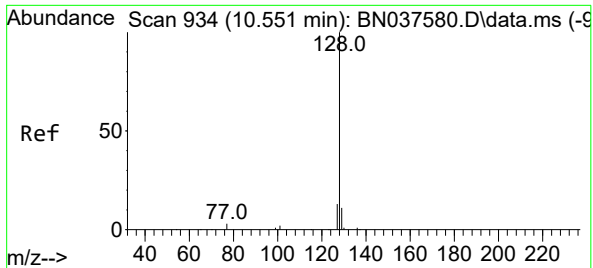
Tgt Ion:	136	Resp:	6166
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.5	14.3
54	7.4	7.3	10.9
68	5.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:	82	Resp:	1733
Ion	Ratio	Lower	Upper
82	100		
128	45.9	32.6	48.8
54	56.7	48.9	73.3



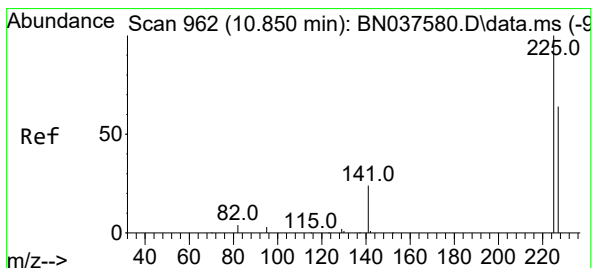
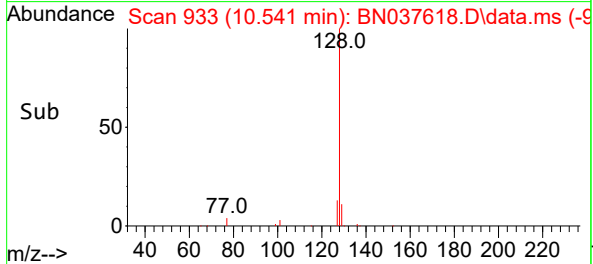
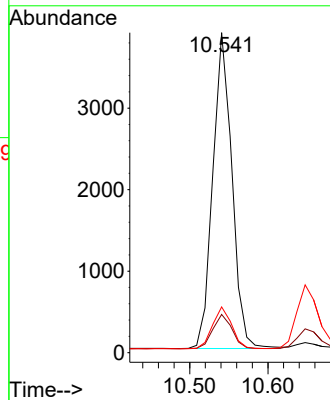
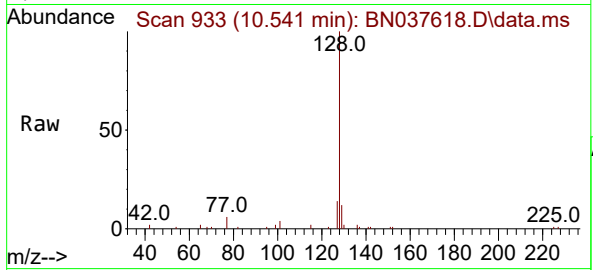


#9
Naphthalene
Concen: 0.401 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 6581

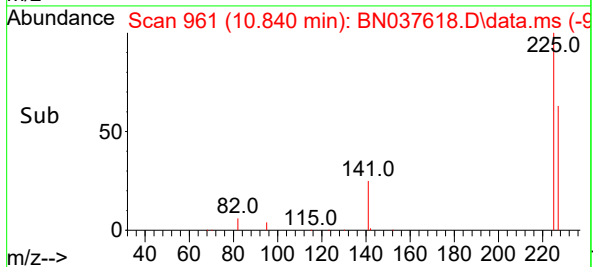
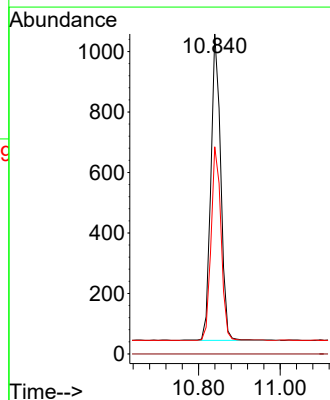
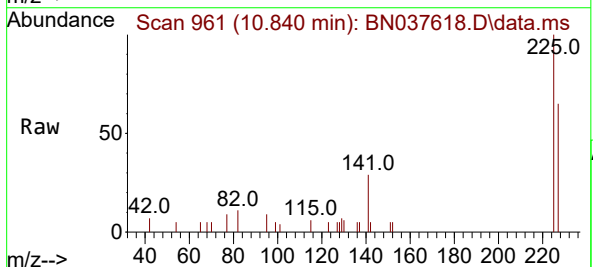
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.3	11.5	17.3

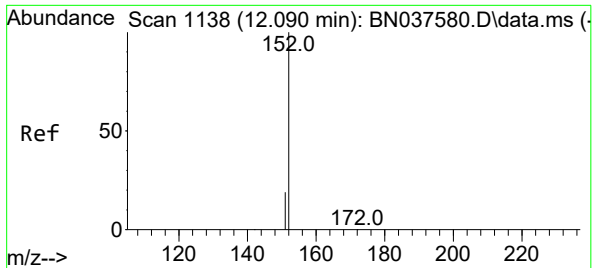


#10
Hexachlorobutadiene
Concen: 0.422 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:225 Resp: 1692

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.8	76.2

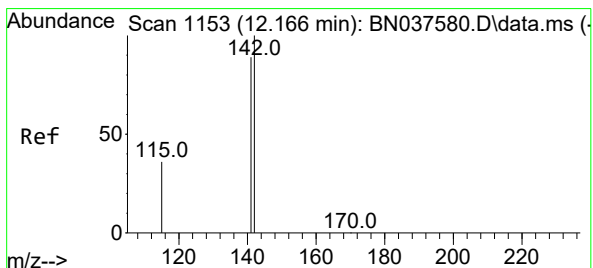
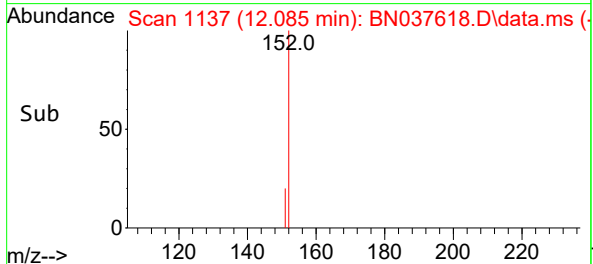
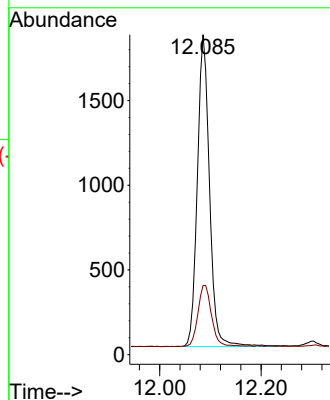
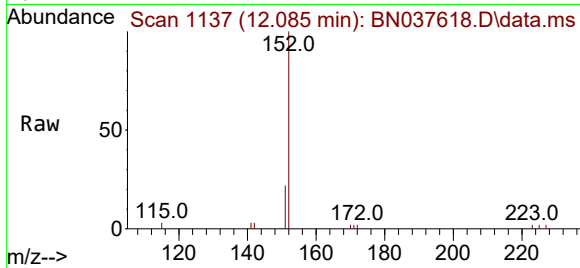




#11
2-Methylnaphthalene-d10
Concen: 0.366 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

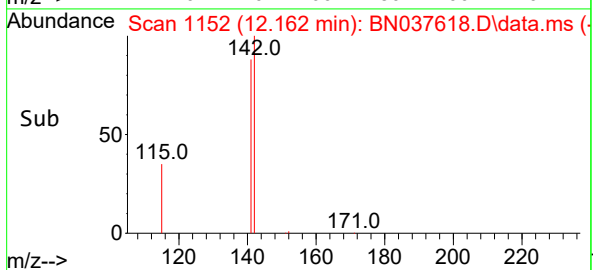
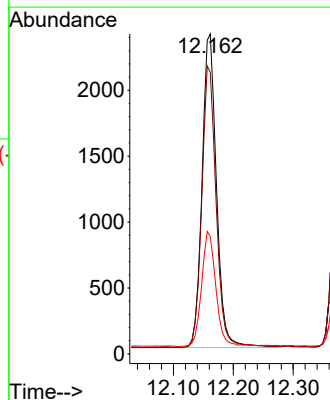
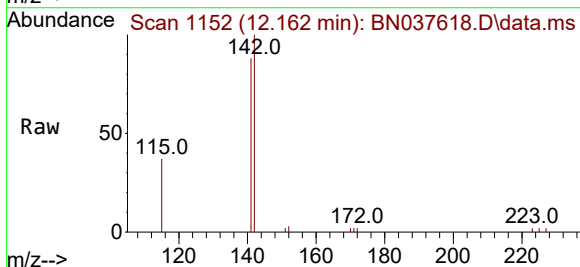
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

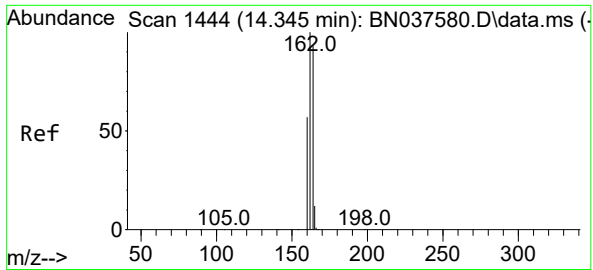
Tgt Ion:152 Resp: 3068
Ion Ratio Lower Upper
152 100
151 22.2 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:142 Resp: 3979
Ion Ratio Lower Upper
142 100
141 88.0 71.4 107.0
115 36.7 30.2 45.4

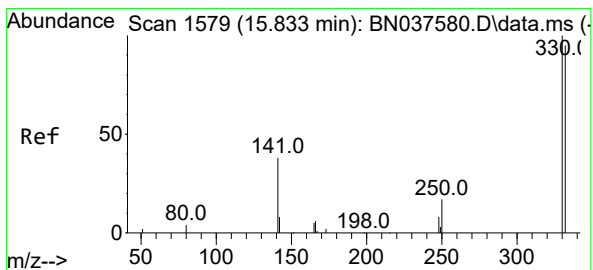
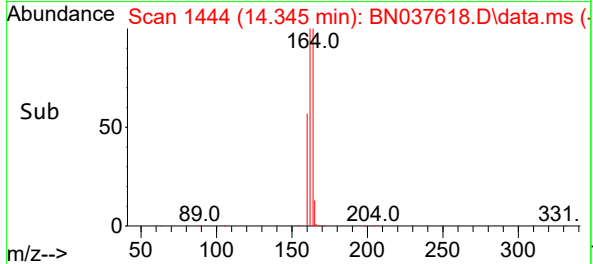
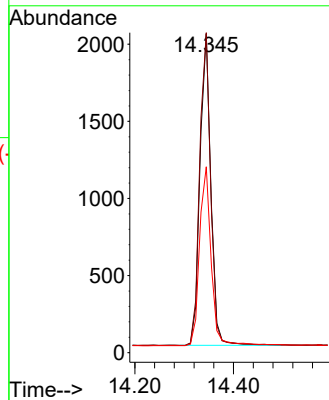
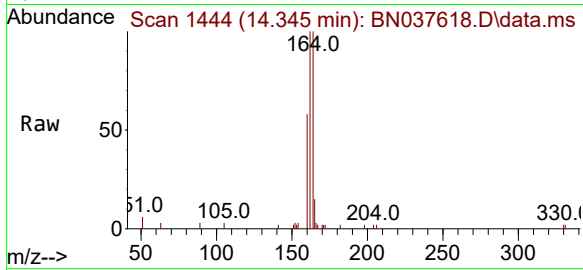




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

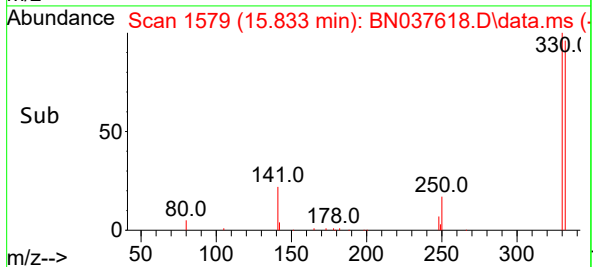
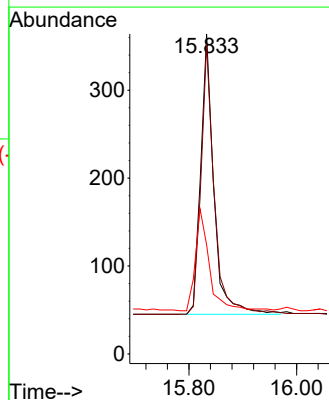
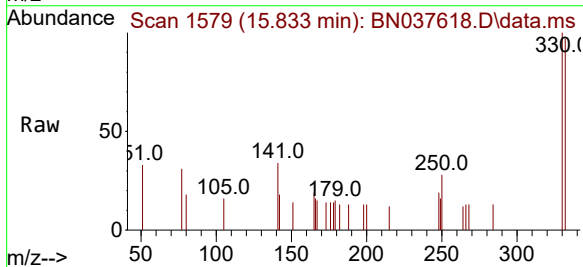
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

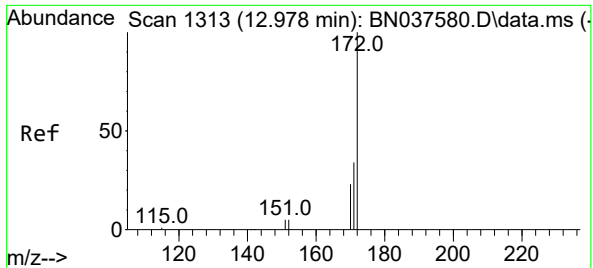
Tgt Ion:164 Resp: 3094
Ion Ratio Lower Upper
164 100
162 100.3 85.5 128.3
160 58.3 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.400 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:330 Resp: 541
Ion Ratio Lower Upper
330 100
332 97.6 77.4 116.0
141 39.0 30.9 46.3

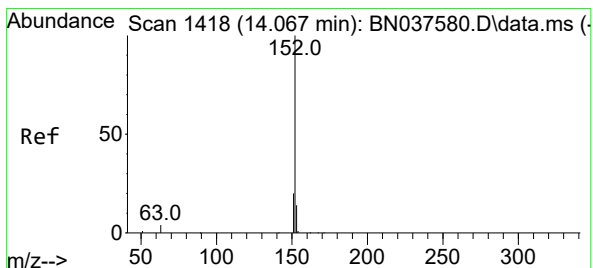
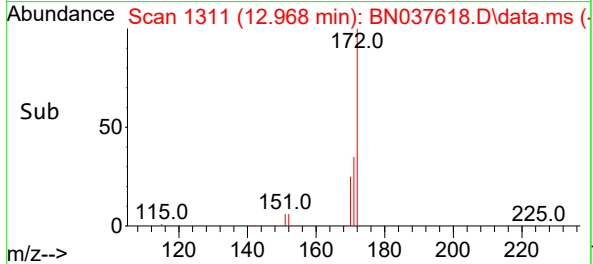
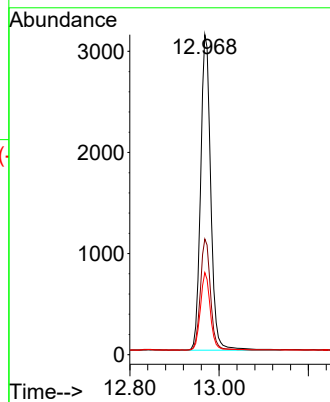
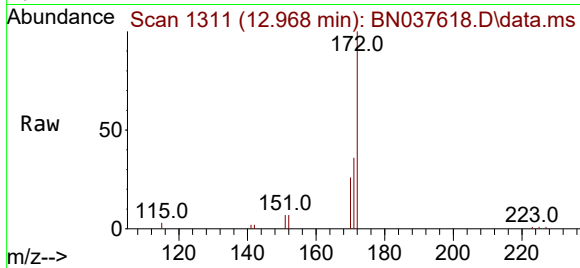




#15
2-Fluorobiphenyl
Concen: 0.388 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

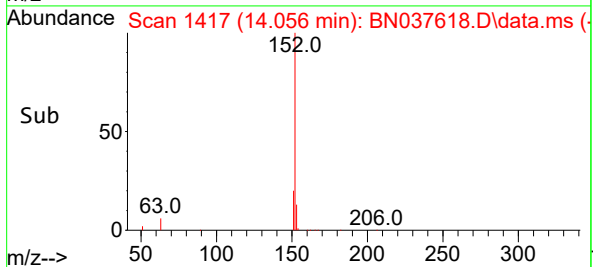
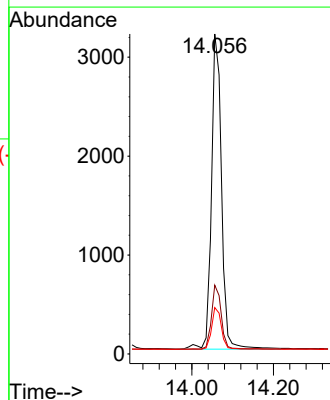
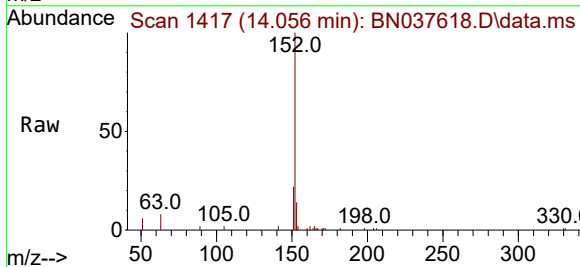
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

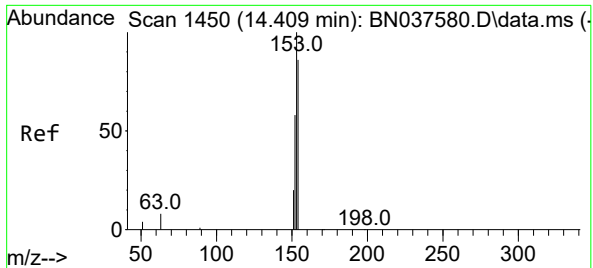
Tgt Ion:	172	Resp:	6948
Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.2	42.4
170	25.7	19.2	28.8



#16
Acenaphthylene
Concen: 0.394 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:	152	Resp:	5458
Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.1	24.1
153	13.1	10.7	16.1

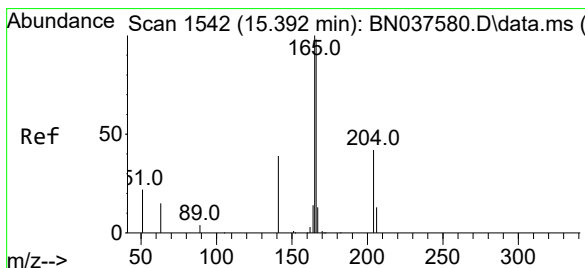
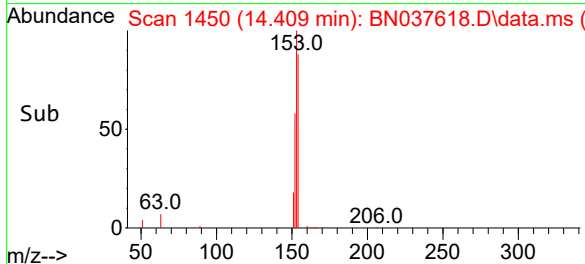
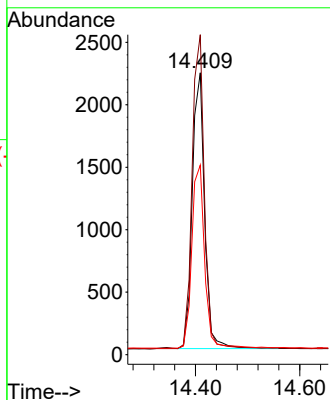
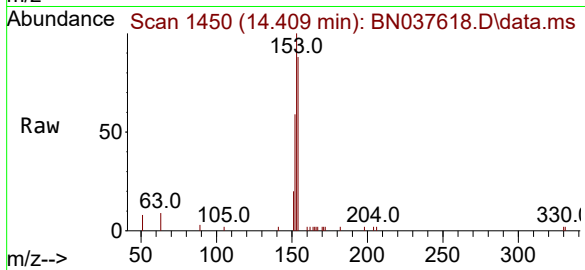




#17
Acenaphthene
Concen: 0.385 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

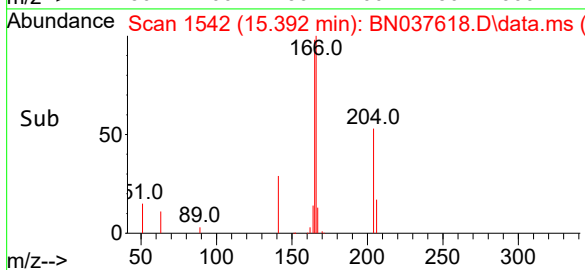
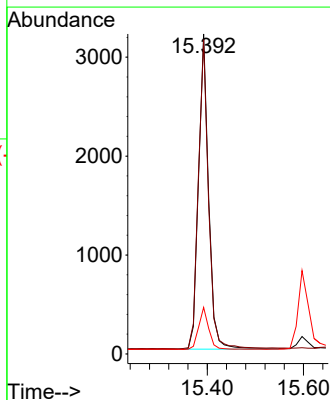
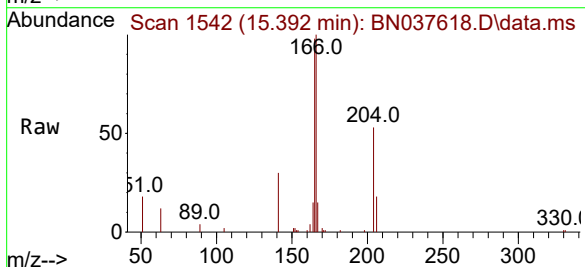
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

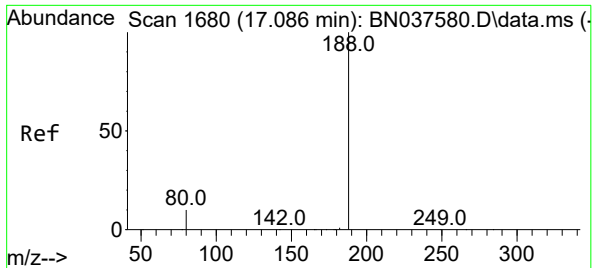
Tgt Ion:154 Resp: 3630
Ion Ratio Lower Upper
154 100
153 113.3 90.6 135.8
152 69.6 54.9 82.3



#18
Fluorene
Concen: 0.386 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:166 Resp: 4767
Ion Ratio Lower Upper
166 100
165 99.3 78.9 118.3
167 13.3 10.7 16.1

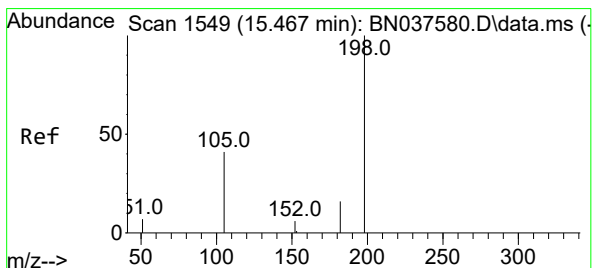
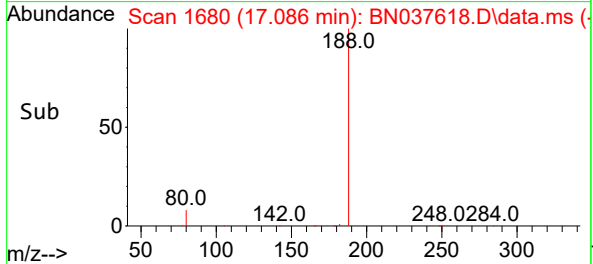
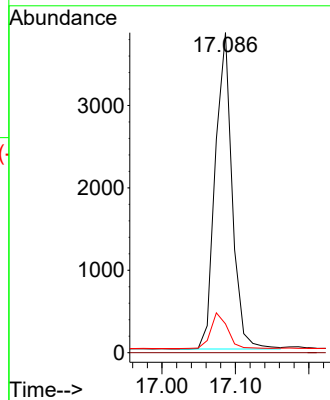
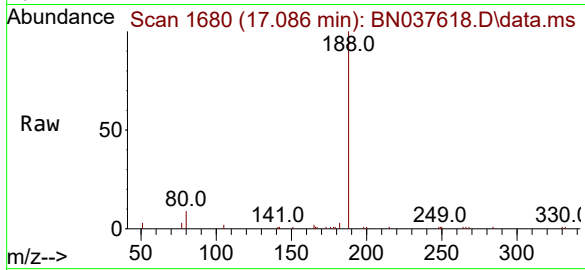




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

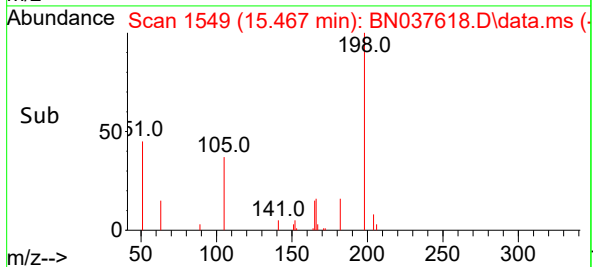
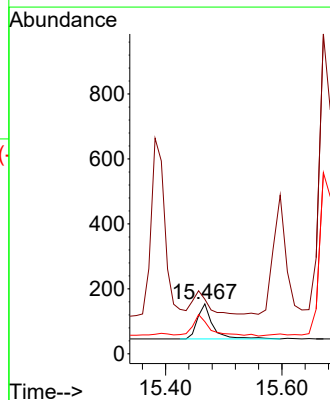
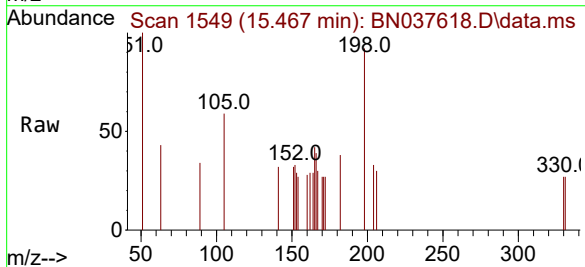
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

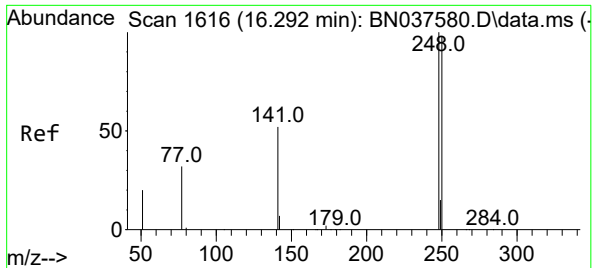
Tgt Ion:188 Resp: 6113
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.0 9.1 13.7#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.368 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:198 Resp: 208
Ion Ratio Lower Upper
198 100
51 109.1 81.0 121.6
105 64.3 52.5 78.7

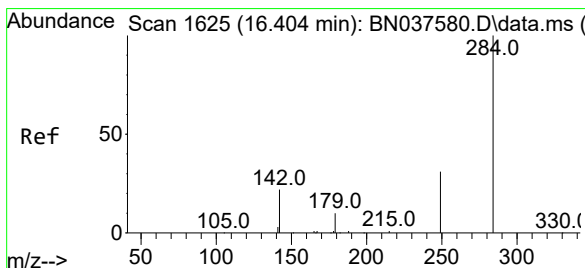
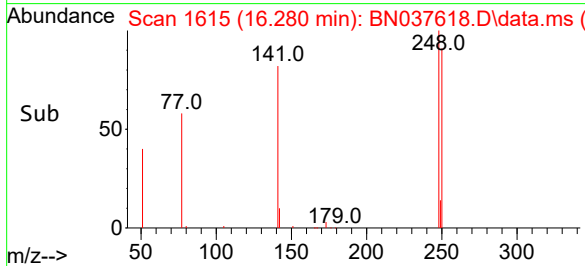
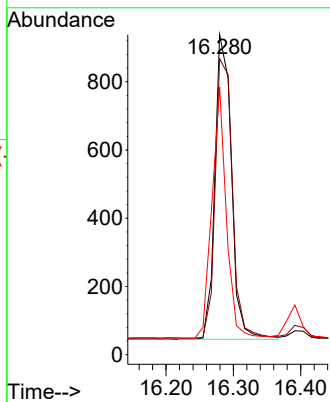
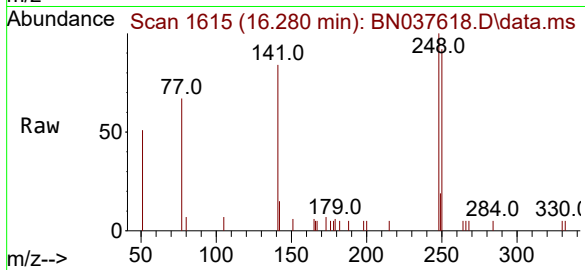




#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

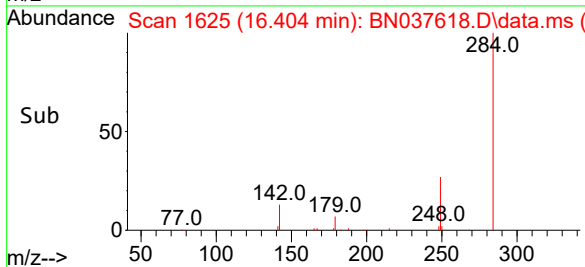
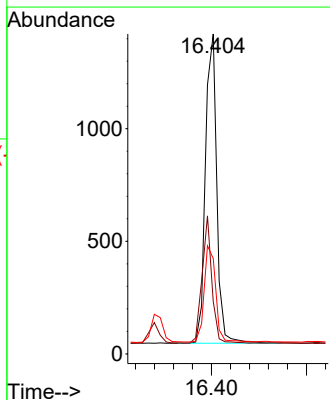
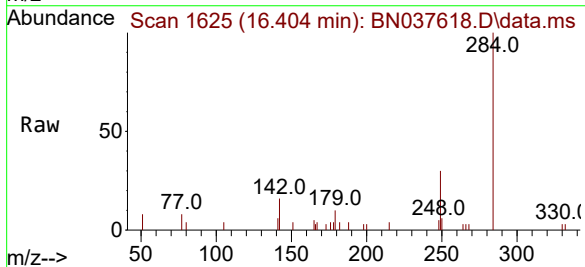
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

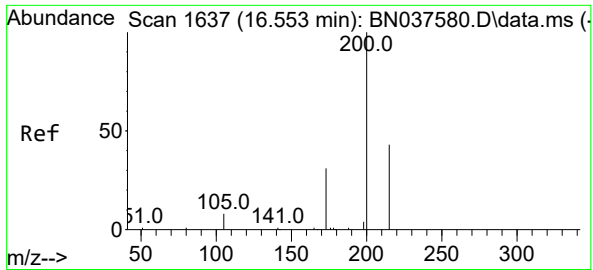
Tgt Ion:248 Resp: 1521
Ion Ratio Lower Upper
248 100
250 92.4 78.6 118.0
141 83.6 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.420 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:284 Resp: 2290
Ion Ratio Lower Upper
284 100
142 35.7 29.8 44.6
249 31.4 26.0 39.0

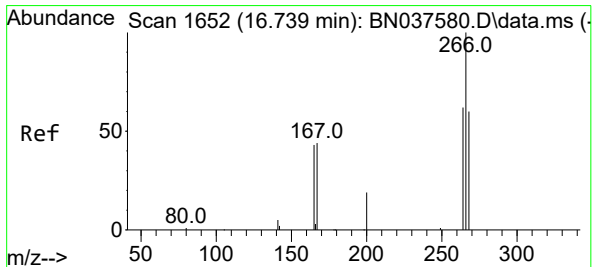
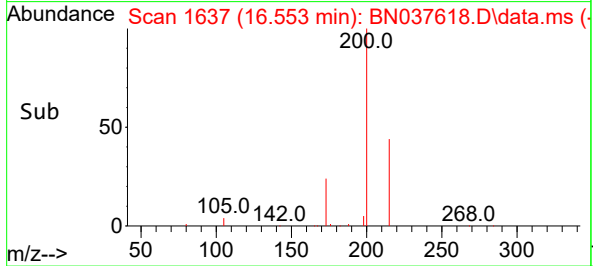
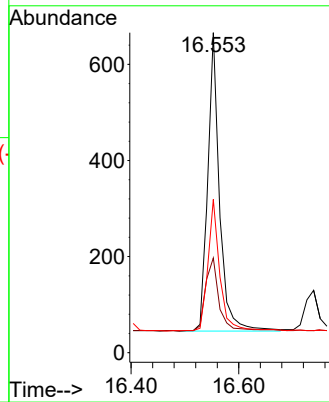
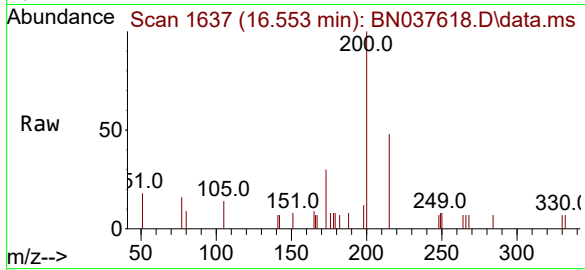




#23
Atrazine
Concen: 0.433 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

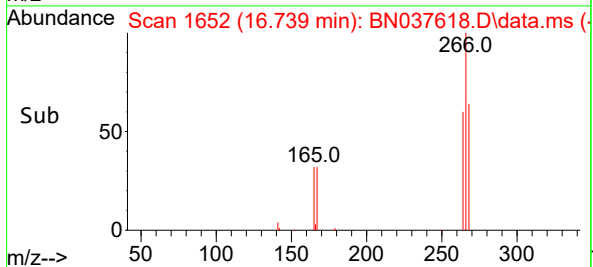
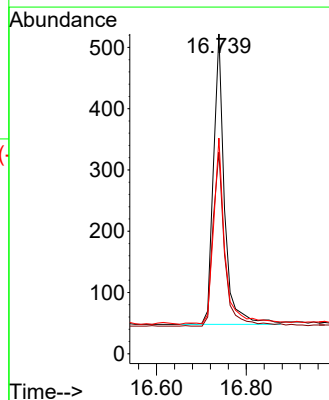
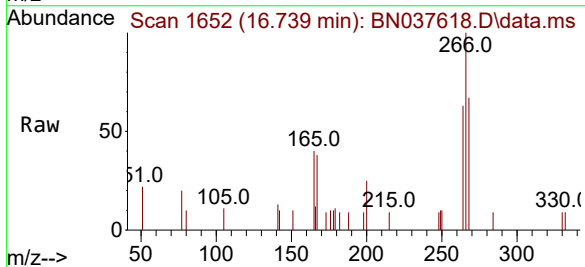
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

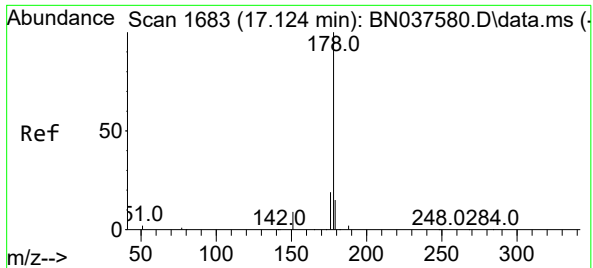
Tgt Ion:200 Resp: 941
Ion Ratio Lower Upper
200 100
173 29.6 31.0 46.4#
215 47.9 39.4 59.0



#24
Pentachlorophenol
Concen: 0.422 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:266 Resp: 807
Ion Ratio Lower Upper
266 100
264 63.8 49.6 74.4
268 67.0 49.2 73.8

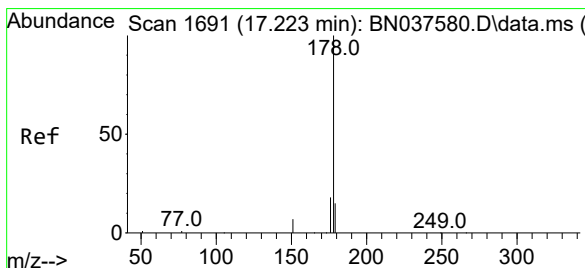
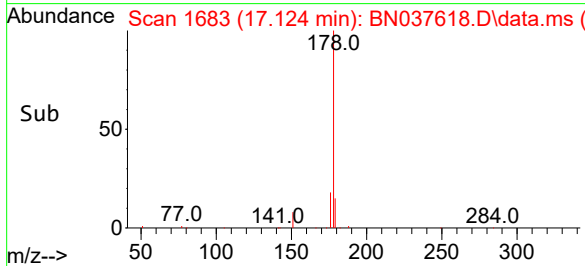
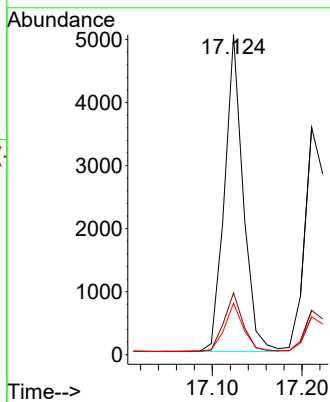
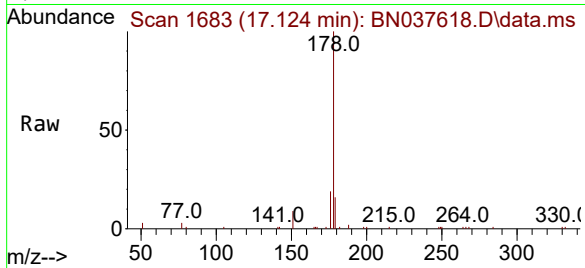




#25
Phenanthrene
Concen: 0.389 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

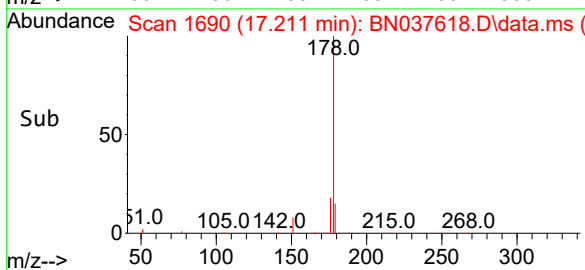
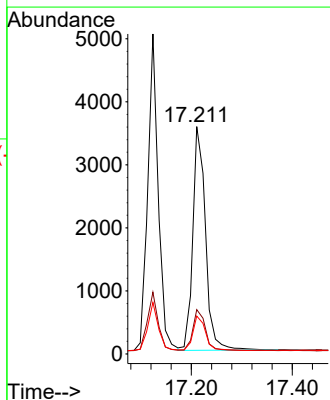
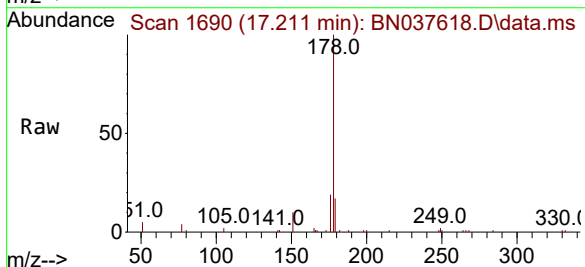
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

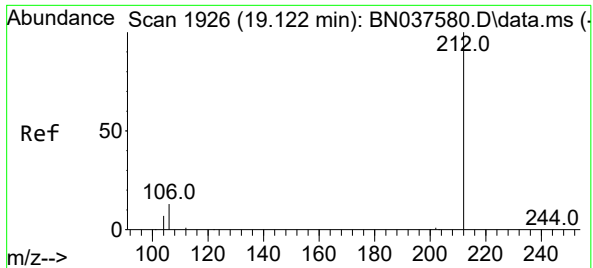
Tgt Ion:178 Resp: 7226
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.377 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:178 Resp: 6209
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.2 12.3 18.5

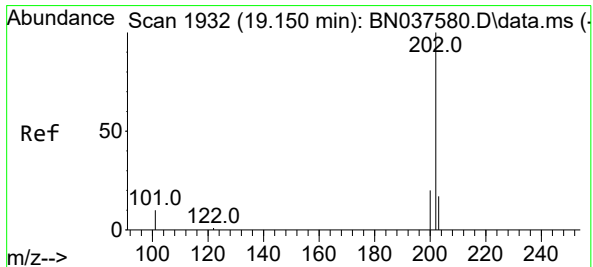
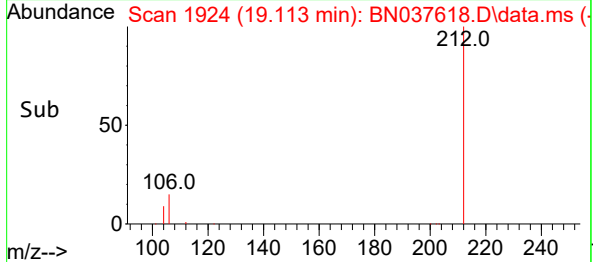
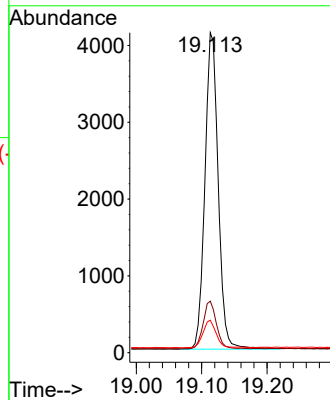
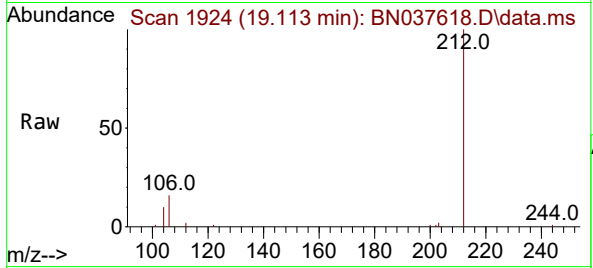




#27
Fluoranthene-d10
Concen: 0.361 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.009 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

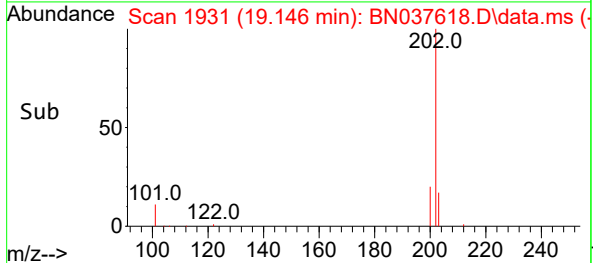
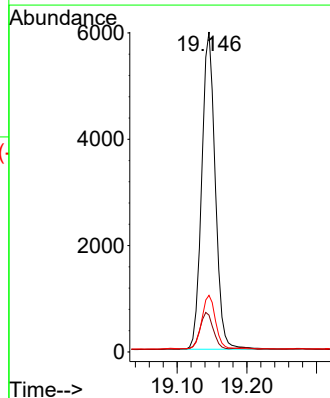
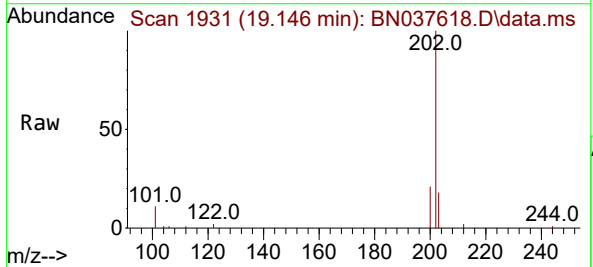
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

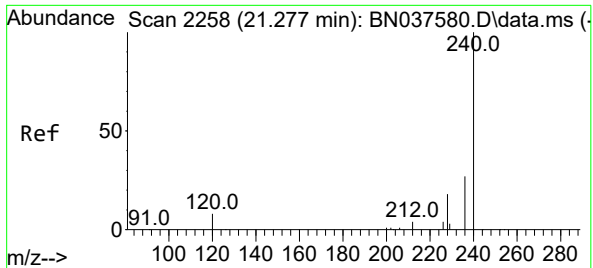
Tgt Ion:212 Resp: 5813
Ion Ratio Lower Upper
212 100
106 15.1 11.5 17.3
104 8.5 6.6 9.8



#28
Fluoranthene
Concen: 0.376 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion:202 Resp: 8030
Ion Ratio Lower Upper
202 100
101 11.5 9.0 13.6
203 17.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

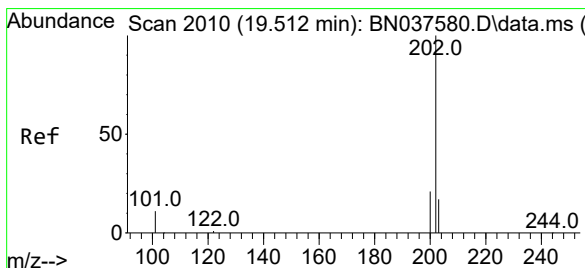
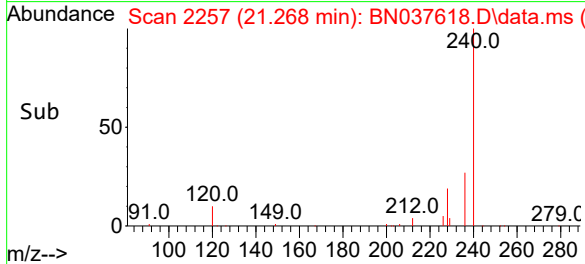
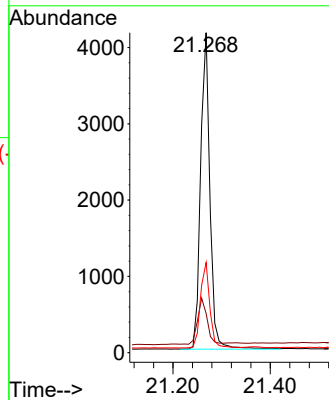
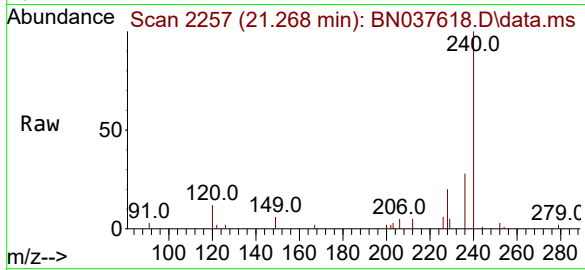
Tgt Ion:240 Resp: 5494

Ion Ratio Lower Upper

240 100

120 12.2 8.9 13.3

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.404 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.004 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

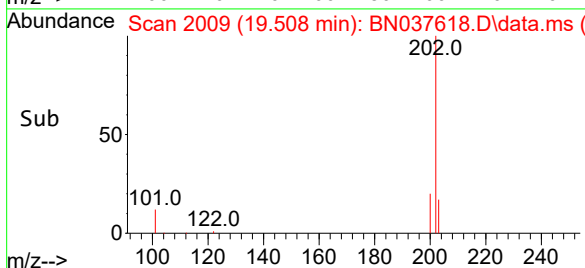
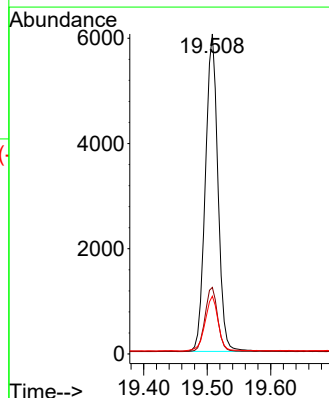
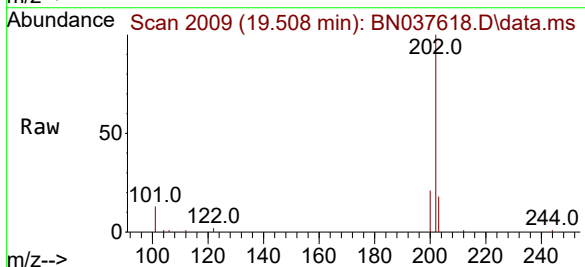
Tgt Ion:202 Resp: 8292

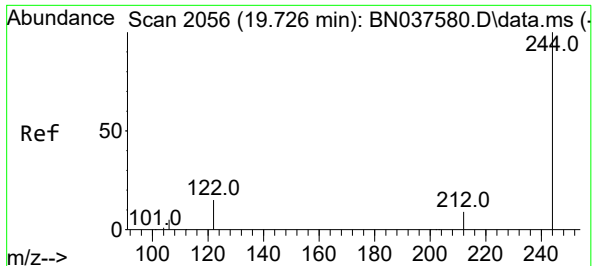
Ion Ratio Lower Upper

202 100

200 20.4 16.6 25.0

203 17.9 14.3 21.5

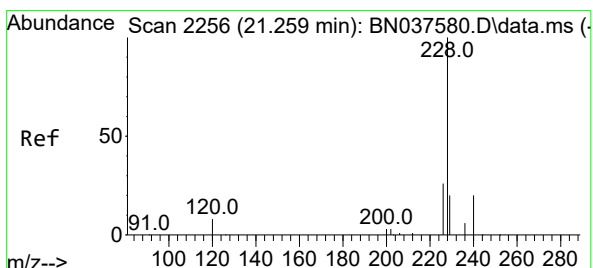
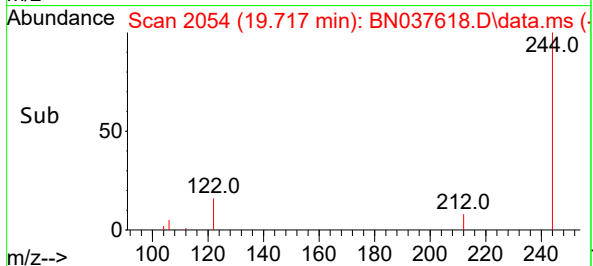
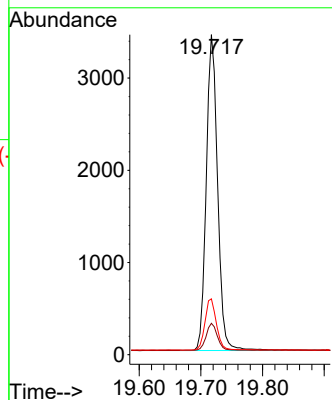
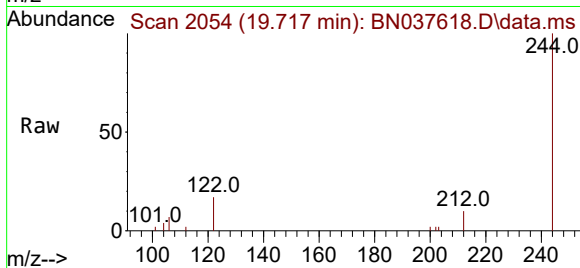




#31
Terphenyl-d14
Concen: 0.385 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

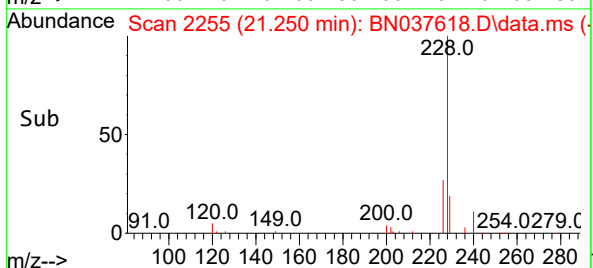
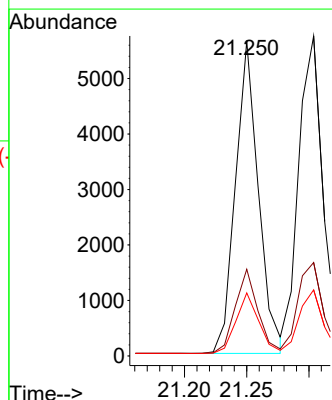
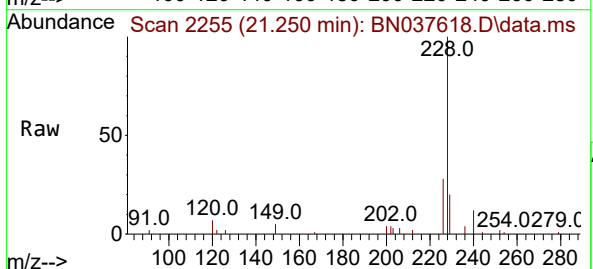
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

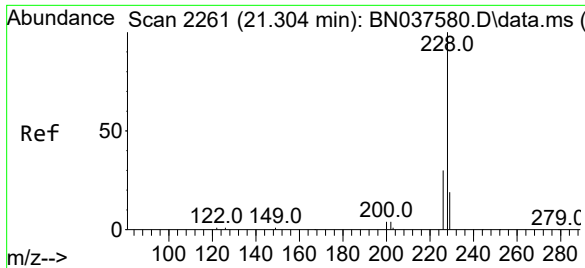
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.2	12.2
122	17.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.5	32.3
229	20.0	16.5	24.7





#33

Chrysene

Concen: 0.389 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

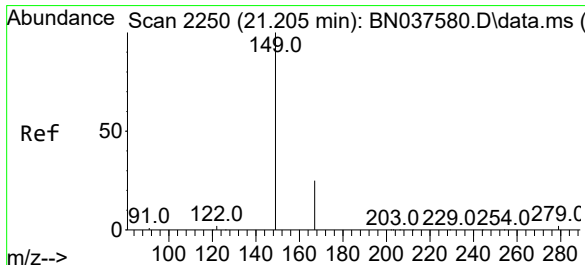
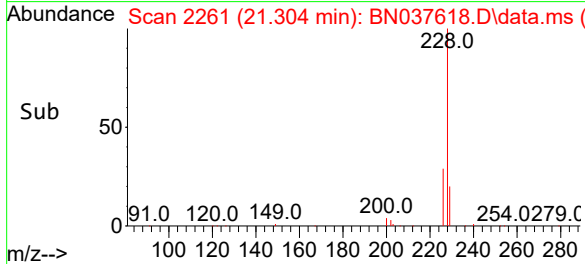
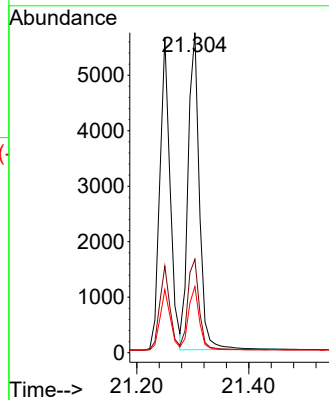
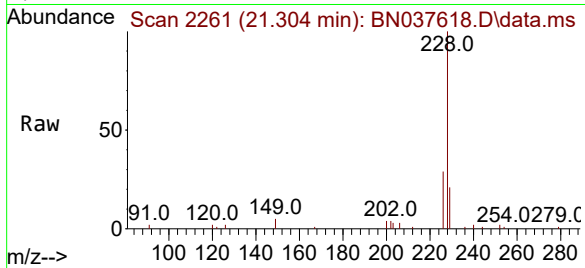
Tgt Ion:228 Resp: 7950

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

229 20.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.471 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

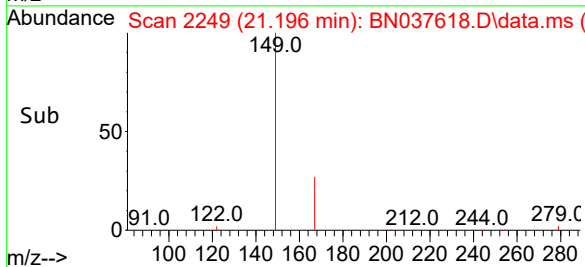
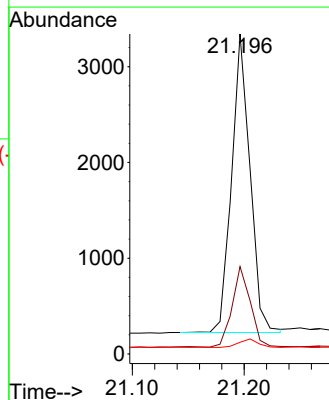
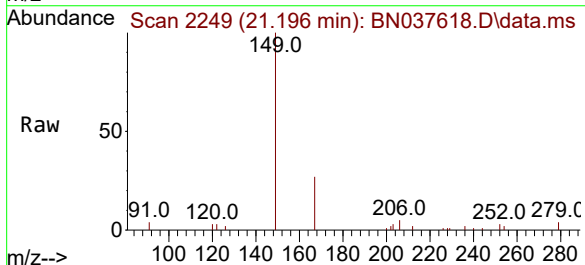
Tgt Ion:149 Resp: 3567

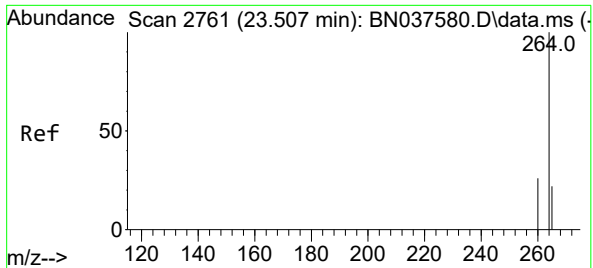
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

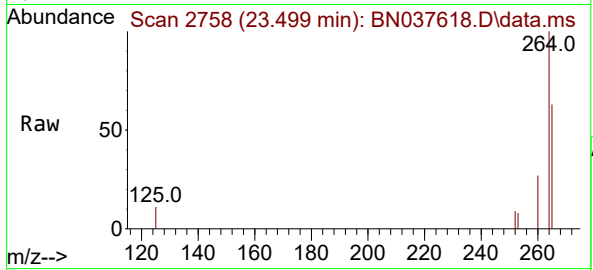
279 3.0 2.6 4.0



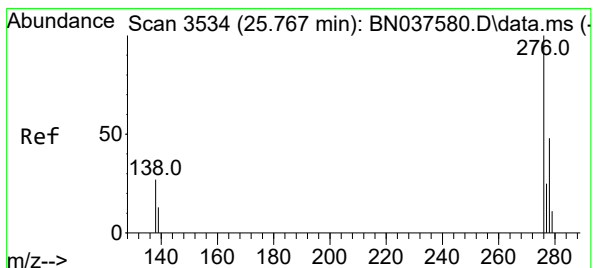
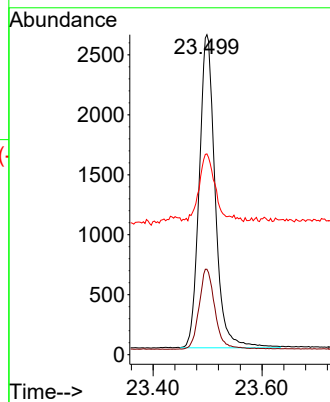
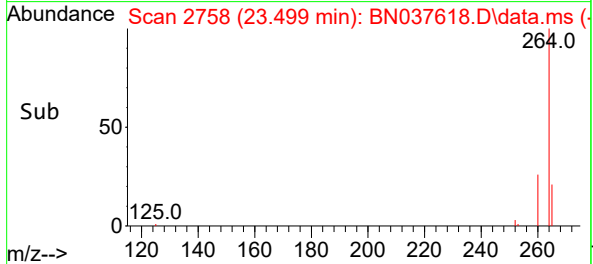


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14

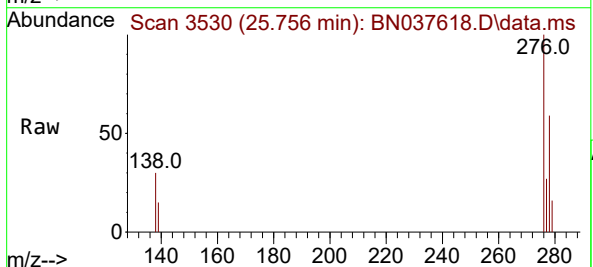
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



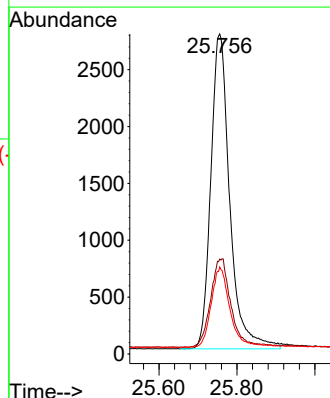
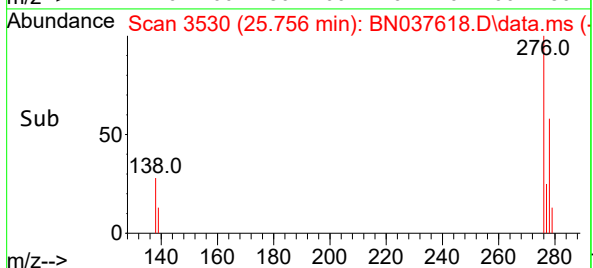
Tgt Ion:264 Resp: 5322
Ion Ratio Lower Upper
264 100
260 26.7 21.6 32.4
265 62.7 48.2 72.4

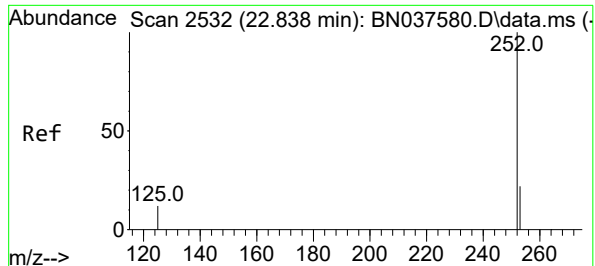


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.417 ng
RT: 25.756 min Scan# 3530
Delta R.T. -0.012 min
Lab File: BN037618.D
Acq: 20 Aug 2025 04:14



Tgt Ion:276 Resp: 9347
Ion Ratio Lower Upper
276 100
138 30.1 23.3 34.9
277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 22.829 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

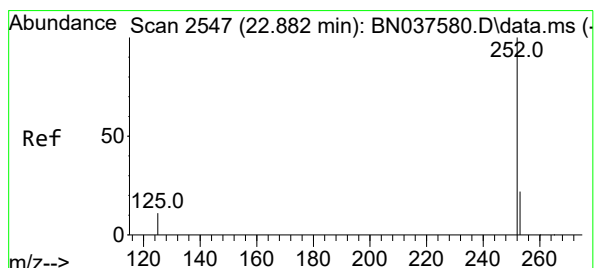
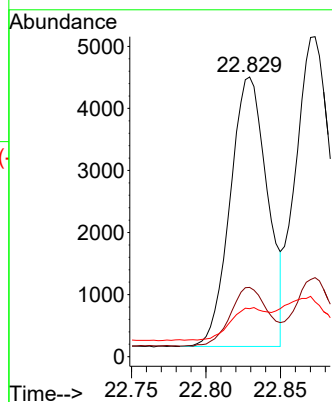
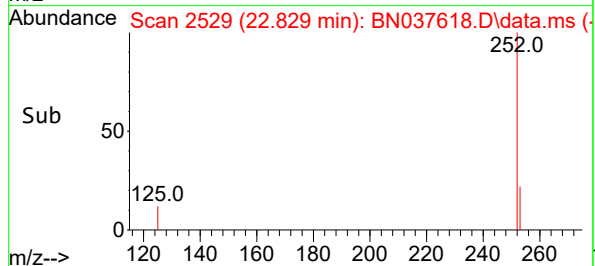
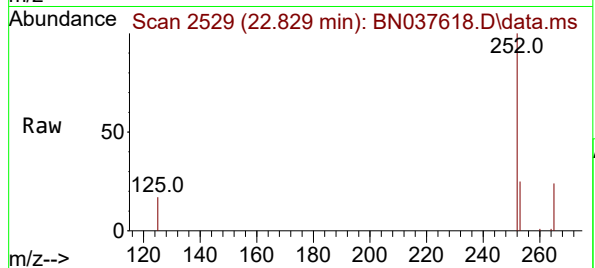
Tgt Ion:252 Resp: 7542

Ion Ratio Lower Upper

252 100

253 24.7 20.0 30.0

125 17.1 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.391 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.009 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

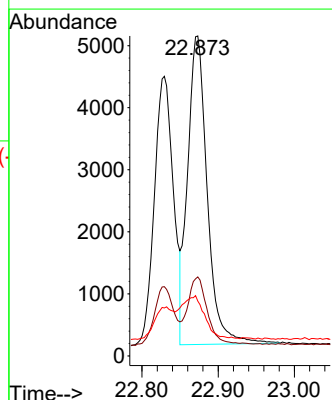
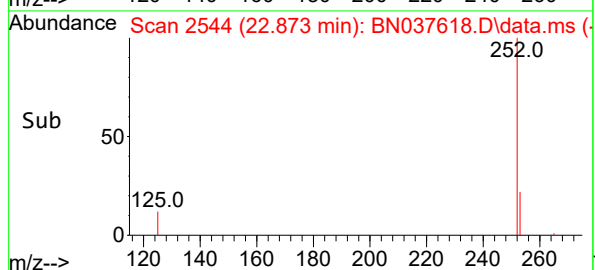
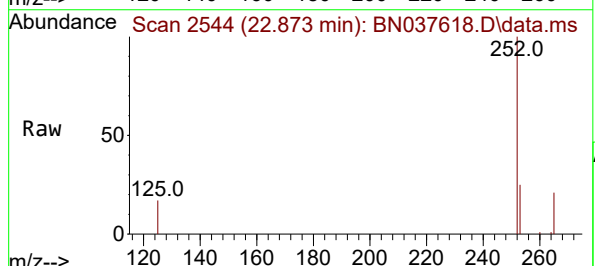
Tgt Ion:252 Resp: 8901

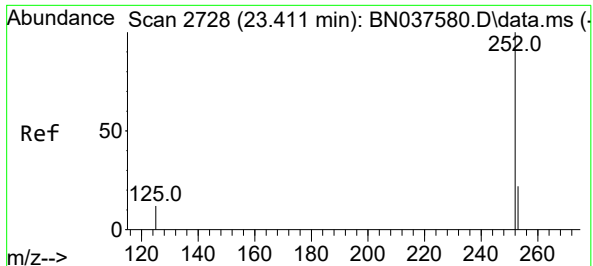
Ion Ratio Lower Upper

252 100

253 24.7 19.9 29.9

125 17.1 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.399 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

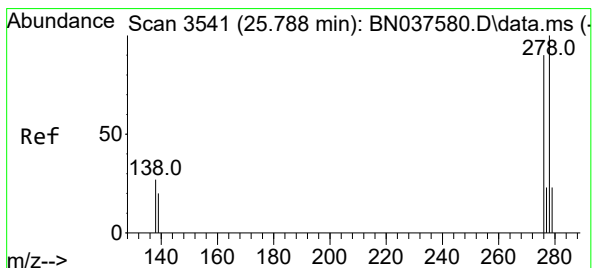
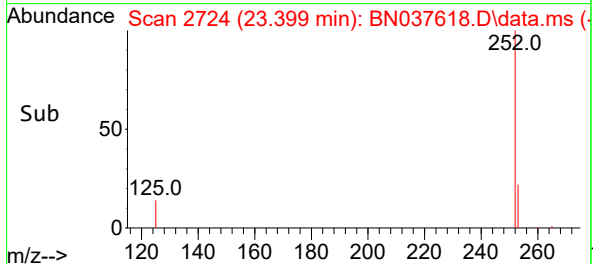
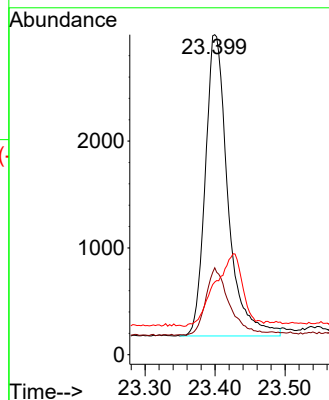
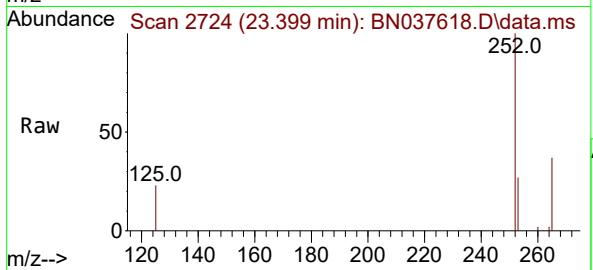
Tgt Ion:252 Resp: 6340

Ion Ratio Lower Upper

252 100

253 27.2 21.6 32.4

125 22.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

RT: 25.768 min Scan# 3534

Delta R.T. -0.020 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

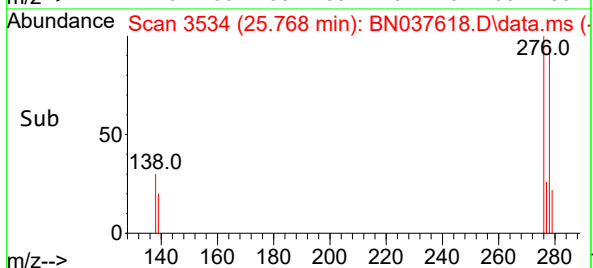
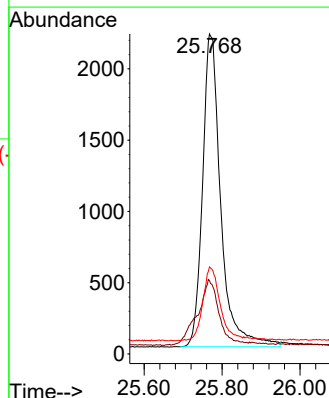
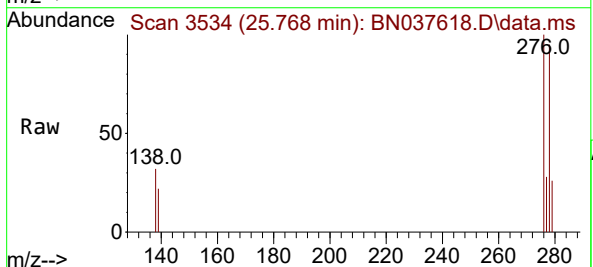
Tgt Ion:278 Resp: 7121

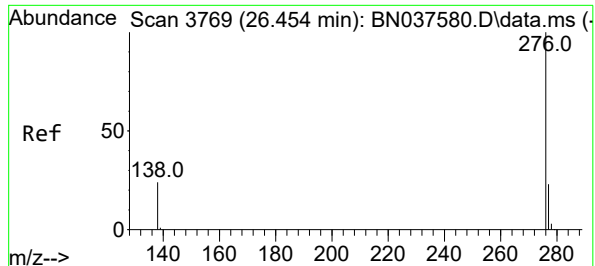
Ion Ratio Lower Upper

278 100

139 22.9 18.3 27.5

279 27.2 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.397 ng

RT: 26.440 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN037618.D

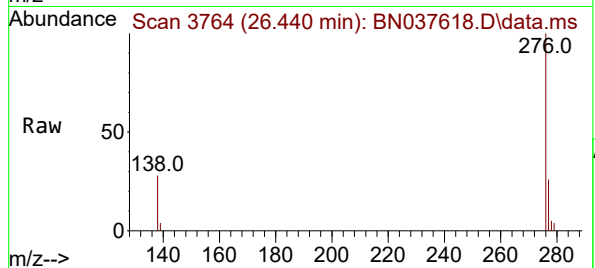
Acq: 20 Aug 2025 04:14

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



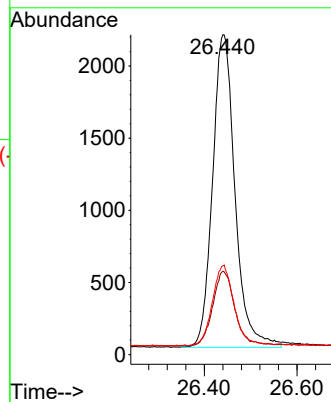
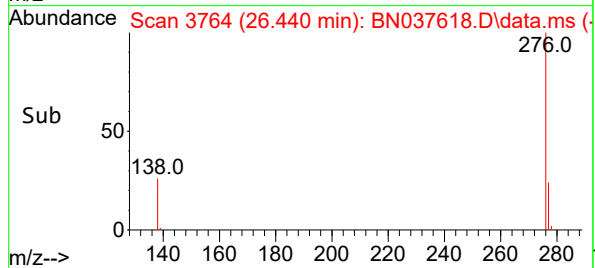
Tgt Ion:276 Resp: 7272

Ion Ratio Lower Upper

276 100

277 26.1 21.0 31.4

138 27.7 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037618.D
 Acq On : 20 Aug 2025 04:14
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 20 06:13:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	125	0.00
2	1,4-Dioxane	0.383	0.380	0.8	120	0.00
3	n-Nitrosodimethylamine	0.489	0.477	2.5	122	0.00
4 S	2-Fluorophenol	0.907	0.875	3.5	123	0.00
5 S	Phenol-d6	1.091	1.045	4.2	125	0.00
6	bis(2-Chloroethyl)ether	0.983	0.962	2.1	123	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	120	0.00
8 S	Nitrobenzene-d5	0.282	0.281	0.4	129	0.00
9	Naphthalene	1.065	1.067	-0.2	123	-0.01
10	Hexachlorobutadiene	0.260	0.274	-5.4	126	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.498	8.5	118	0.00
12	2-Methylnaphthalene	0.668	0.645	3.4	122	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00
14 S	2,4,6-Tribromophenol	0.175	0.175	0.0	137	0.00
15 S	2-Fluorobiphenyl	2.313	2.246	2.9	119	0.00
16	Acenaphthylene	1.793	1.764	1.6	126	-0.01
17	Acenaphthene	1.220	1.173	3.9	122	0.00
18	Fluorene	1.596	1.541	3.4	123	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	121	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.034	35.8#	90	0.00
21	4-Bromophenyl-phenylether	0.251	0.249	0.8	129	-0.01
22	Hexachlorobenzene	0.356	0.375	-5.3	128	0.00
23	Atrazine	0.142	0.154	-8.5	144	0.00
24	Pentachlorophenol	0.125	0.132	-5.6	141	0.00
25	Phenanthrene	1.216	1.182	2.8	123	0.00
26	Anthracene	1.077	1.016	5.7	124	-0.01
27 SURR	Fluoranthene-d10	1.052	0.951	9.6	121	0.00
28	Fluoranthene	1.397	1.314	5.9	123	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	127	0.00
30	Pyrene	1.495	1.509	-0.9	131	0.00
31 S	Terphenyl-d14	0.823	0.793	3.6	127	0.00
32	Benzo(a)anthracene	1.336	1.314	1.6	132	0.00
33	Chrysene	1.489	1.447	2.8	129	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.649	-17.8	158#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	127	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.756	-4.2	138	-0.01
37	Benzo(b)fluoranthene	1.516	1.417	6.5	135	0.00
38	Benzo(k)fluoranthene	1.710	1.672	2.2	129	0.00
39 C	Benzo(a)pyrene	1.257	1.191	5.3	132	-0.01
40	Dibenzo(a,h)anthracene	1.308	1.338	-2.3	139	-0.02
41	Benzo(g,h,i)perylene	1.378	1.366	0.9	138	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037618.D
Acq On : 20 Aug 2025 04:14
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 20 06:13:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	125	0.00
2	1,4-Dioxane	0.400	0.397	0.8	120	0.00
3	n-Nitrosodimethylamine	0.400	0.390	2.5	122	0.00
4 S	2-Fluorophenol	0.400	0.386	3.5	123	0.00
5 S	Phenol-d6	0.400	0.383	4.3	125	0.00
6	bis(2-Chloroethyl)ether	0.400	0.391	2.3	123	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	120	0.00
8 S	Nitrobenzene-d5	0.400	0.399	0.3	129	0.00
9	Naphthalene	0.400	0.401	-0.3	123	-0.01
10	Hexachlorobutadiene	0.400	0.422	-5.5	126	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.366	8.5	118	0.00
12	2-Methylnaphthalene	0.400	0.386	3.5	122	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	122	0.00
14 S	2,4,6-Tribromophenol	0.400	0.400	0.0	137	0.00
15 S	2-Fluorobiphenyl	0.400	0.388	3.0	119	0.00
16	Acenaphthylene	0.400	0.394	1.5	126	-0.01
17	Acenaphthene	0.400	0.385	3.8	122	0.00
18	Fluorene	0.400	0.386	3.5	123	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	121	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.368	8.0	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.396	1.0	129	-0.01
22	Hexachlorobenzene	0.400	0.420	-5.0	128	0.00
23	Atrazine	0.400	0.433	-8.2	144	0.00
24	Pentachlorophenol	0.400	0.422	-5.5	141	0.00
25	Phenanthrene	0.400	0.389	2.8	123	0.00
26	Anthracene	0.400	0.377	5.8	124	-0.01
27 SURR	Fluoranthene-d10	0.400	0.361	9.8	121	0.00
28	Fluoranthene	0.400	0.376	6.0	123	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	127	0.00
30	Pyrene	0.400	0.404	-1.0	131	0.00
31 S	Terphenyl-d14	0.400	0.385	3.8	127	0.00
32	Benzo(a)anthracene	0.400	0.393	1.8	132	0.00
33	Chrysene	0.400	0.389	2.8	129	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.471	-17.7	158	0.00
35 I	Perylene-d12	0.400	0.400	0.0	127	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.417	-4.2	138	-0.01
37	Benzo(b)fluoranthene	0.400	0.374	6.5	135	0.00
38	Benzo(k)fluoranthene	0.400	0.391	2.3	129	0.00
39 C	Benzo(a)pyrene	0.400	0.379	5.3	132	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.409	-2.2	139	-0.02
41	Benzo(g,h,i)perylene	0.400	0.397	0.8	138	-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: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2881
 Instrument ID: BNA_N Calibration Date/Time: 08/20/2025 14:56
 Lab File ID: BN037631.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.491		-9.7	50.0
Fluoranthene-d10	1.052	0.944		-10.3	50.0
2-Fluorophenol	0.907	0.853		-6.0	50.0
Phenol-d6	1.091	0.982		-10.0	50.0
Nitrobenzene-d5	0.282	0.275		-2.5	50.0
2-Fluorobiphenyl	2.313	2.157		-6.7	50.0
2,4,6-Tribromophenol	0.175	0.172		-1.7	50.0
Terphenyl-d14	0.823	0.717		-12.9	50.0
1,4-Dioxane	0.383	0.377		-1.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037631.D
 Acq On : 20 Aug 2025 14:56
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

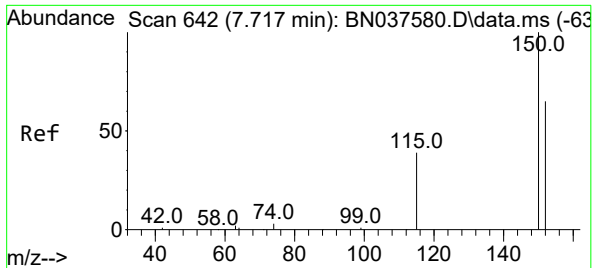
Quant Time: Aug 21 04:14:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2456	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	5823	0.400	ng	-0.01
13) Acenaphthene-d10	14.334	164	2830	0.400	ng	-0.01
19) Phenanthrene-d10	17.086	188	5994	0.400	ng	# 0.00
29) Chrysene-d12	21.268	240	5773	0.400	ng	0.00
35) Perylene-d12	23.496	264	4873	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.298	112	2094	0.376	ng	0.00
5) Phenol-d6	6.872	99	2413	0.360	ng	0.00
8) Nitrobenzene-d5	8.843	82	1602	0.391	ng	-0.01
11) 2-Methylnaphthalene-d10	12.080	152	2860	0.361	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	488	0.394	ng	0.00
15) 2-Fluorobiphenyl	12.963	172	6104	0.373	ng	-0.02
27) Fluoranthene-d10	19.113	212	5661	0.359	ng	0.00
31) Terphenyl-d14	19.717	244	4138	0.348	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	925	0.394	ng	Qvalue 97
3) n-Nitrosodimethylamine	3.535	42	1141	0.380	ng	100
6) bis(2-Chloroethyl)ether	7.132	93	2272	0.376	ng	94
9) Naphthalene	10.541	128	6112	0.394	ng	99
10) Hexachlorobutadiene	10.840	225	1557	0.411	ng	# 100
12) 2-Methylnaphthalene	12.156	142	3683	0.379	ng	99
16) Acenaphthylene	14.056	152	5018	0.396	ng	100
17) Acenaphthene	14.398	154	3301	0.383	ng	98
18) Fluorene	15.392	166	4411	0.391	ng	100
20) 4,6-Dinitro-2-methylph...	15.467	198	209	0.373	ng	# 86
21) 4-Bromophenyl-phenylether	16.280	248	1393	0.370	ng	# 92
22) Hexachlorobenzene	16.391	284	2180	0.408	ng	98
23) Atrazine	16.553	200	1127	0.529	ng	# 92
24) Pentachlorophenol	16.739	266	668	0.356	ng	97
25) Phenanthrene	17.124	178	6964	0.382	ng	100
26) Anthracene	17.211	178	5907	0.366	ng	100
28) Fluoranthene	19.146	202	7700	0.368	ng	100
30) Pyrene	19.503	202	7633	0.354	ng	100
32) Benzo(a)anthracene	21.250	228	6860	0.356	ng	99
33) Chrysene	21.304	228	9019	0.420	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	2807	0.353	ng	98
36) Indeno(1,2,3-cd)pyrene	25.756	276	9057	0.441	ng	98
37) Benzo(b)fluoranthene	22.826	252	8313	0.450	ng	99
38) Benzo(k)fluoranthene	22.870	252	8183	0.393	ng	98
39) Benzo(a)pyrene	23.399	252	6077	0.397	ng	99
40) Dibenzo(a,h)anthracene	25.773	278	6925	0.435	ng	99
41) Benzo(g,h,i)perylene	26.443	276	7413	0.442	ng	99

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

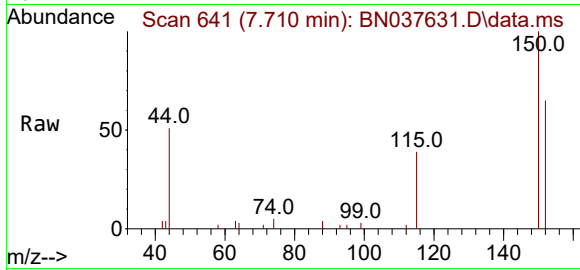
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

- 1
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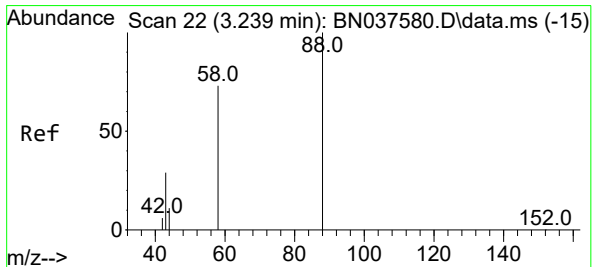
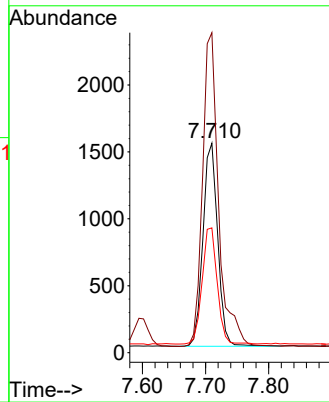
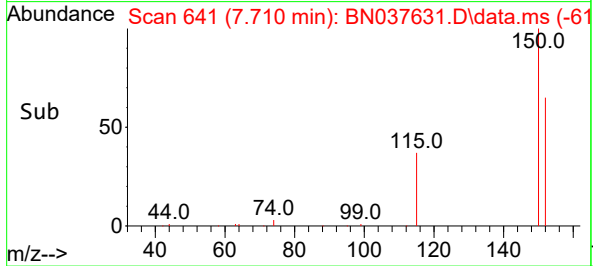


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

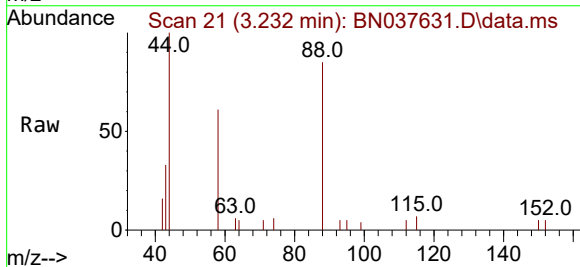
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC



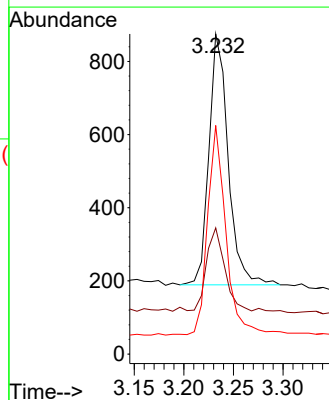
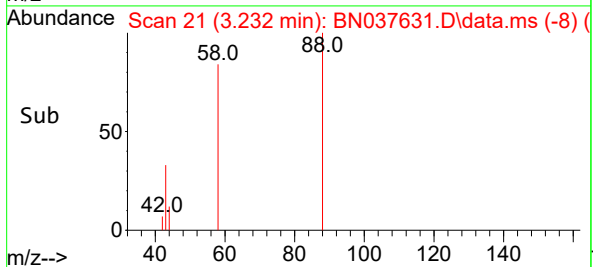
Tgt Ion:152 Resp: 2456
Ion Ratio Lower Upper
152 100
150 152.8 122.2 183.4
115 59.6 49.8 74.6

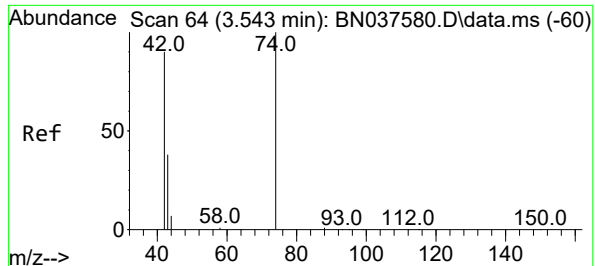


#2
1,4-Dioxane
Concen: 0.394 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56



Tgt Ion: 88 Resp: 925
Ion Ratio Lower Upper
88 100
43 34.8 25.8 38.6
58 78.7 61.2 91.8

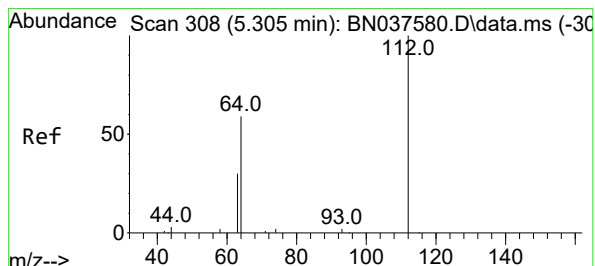
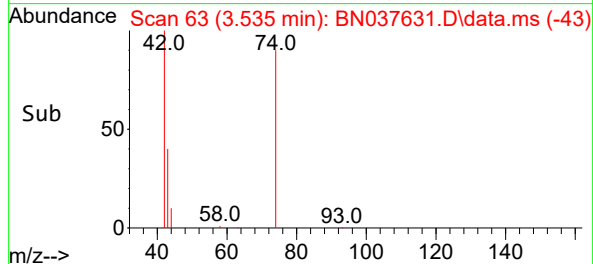
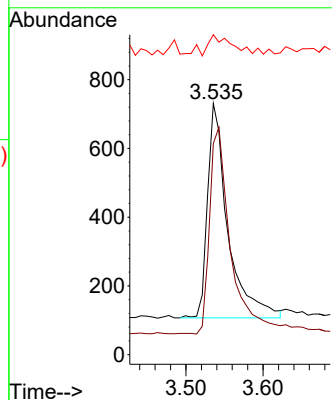
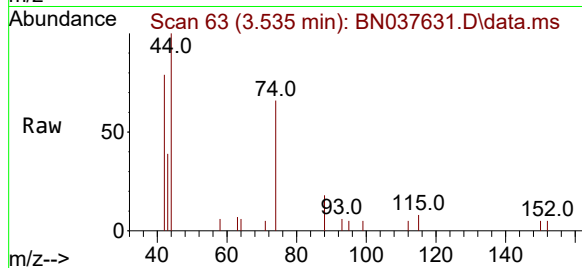




#3
n-Nitrosodimethylamine
Concen: 0.380 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

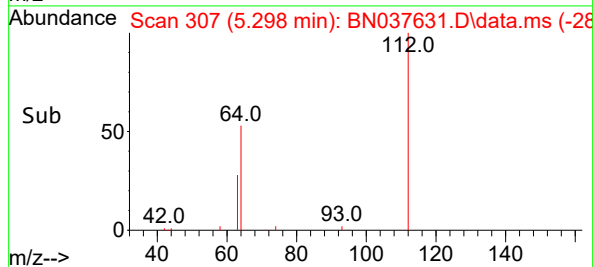
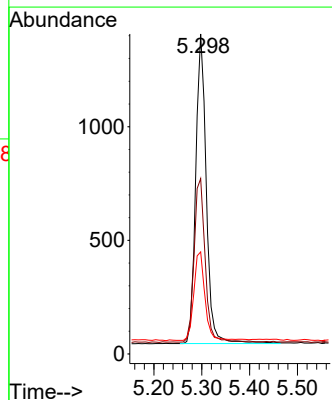
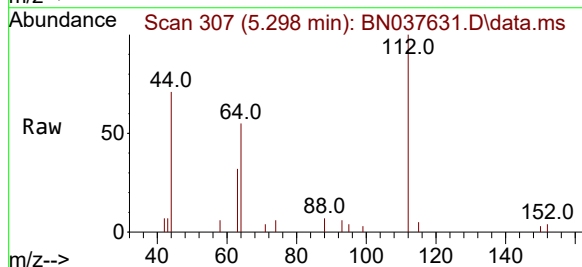
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

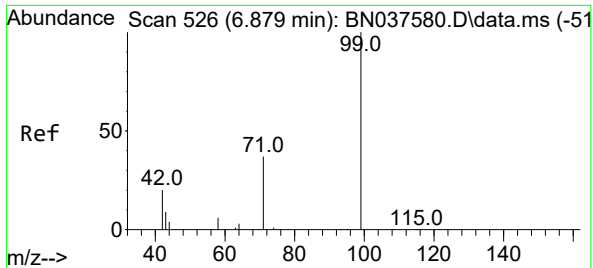
Tgt Ion: 42 Resp: 1141
Ion Ratio Lower Upper
42 100
74 102.4 82.0 123.0
44 9.7 7.9 11.9



#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.298 min Scan# 307
Delta R.T. -0.007 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion: 112 Resp: 2094
Ion Ratio Lower Upper
112 100
64 55.3 44.9 67.3
63 29.8 23.4 35.2

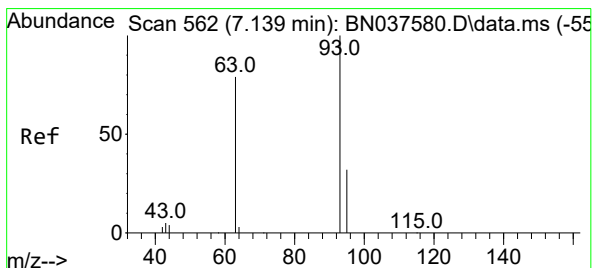
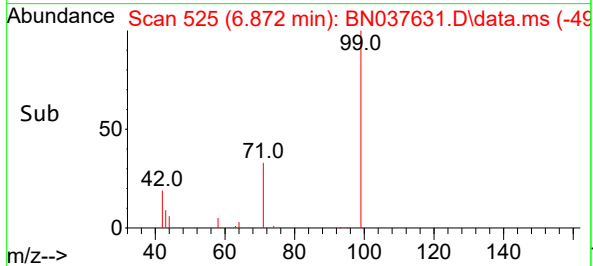
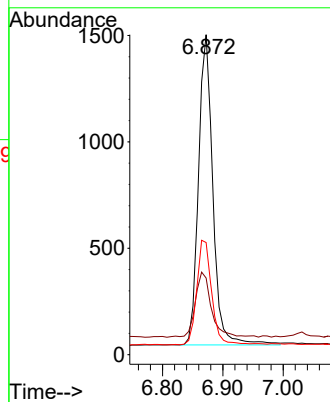
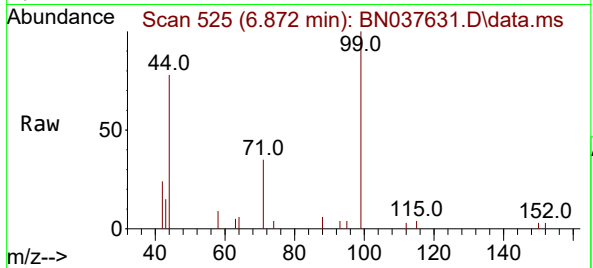




#5
Phenol-d6
Concen: 0.360 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

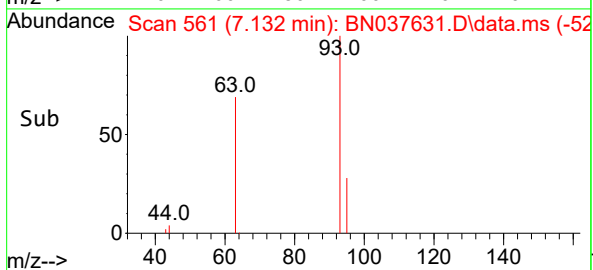
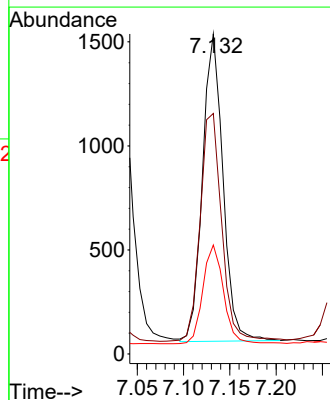
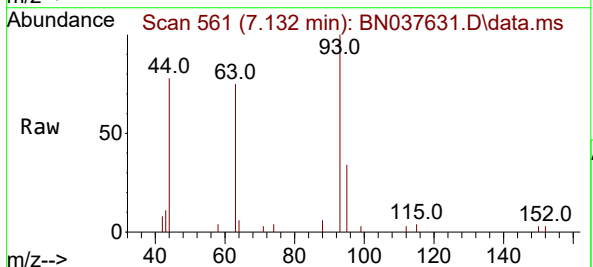
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

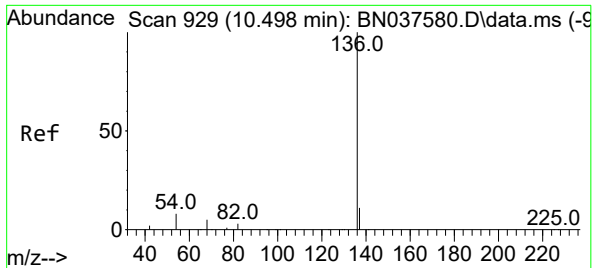
Tgt Ion:	99	Resp:	2413
Ion	Ratio	Lower	Upper
99	100		
42	23.5	18.5	27.7
71	34.9	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.376 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:	93	Resp:	2272
Ion	Ratio	Lower	Upper
93	100		
63	78.4	58.0	87.0
95	32.6	24.9	37.3

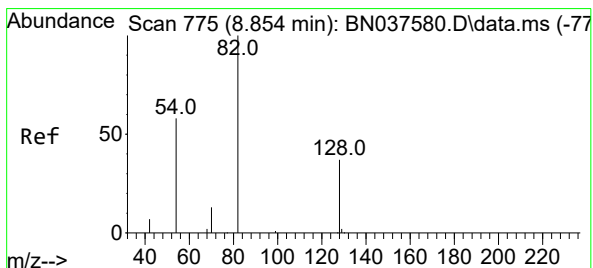
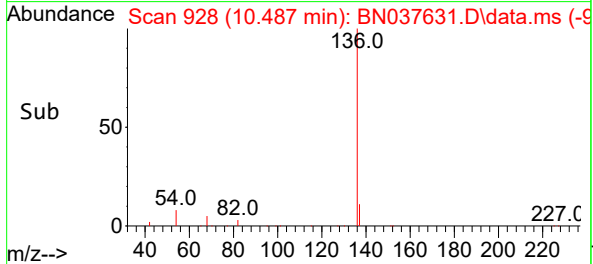
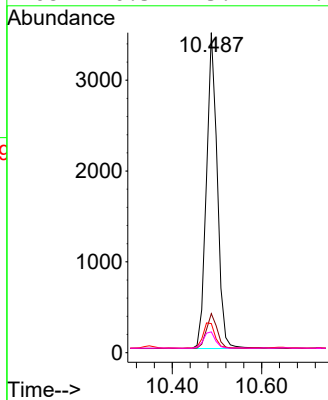
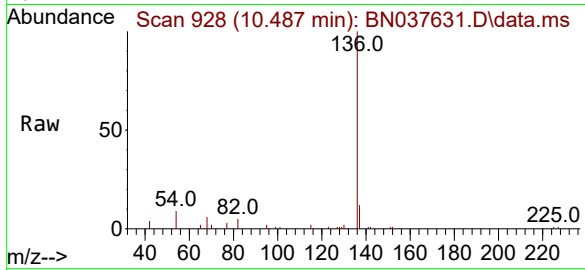




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

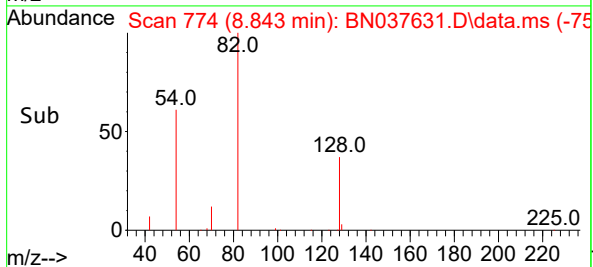
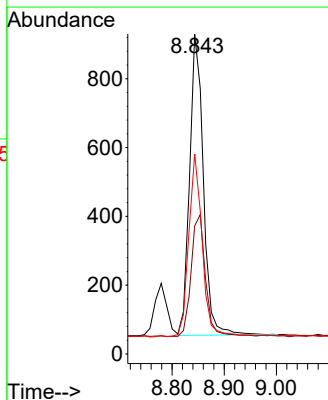
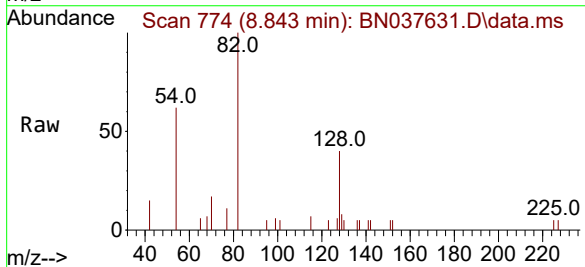
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

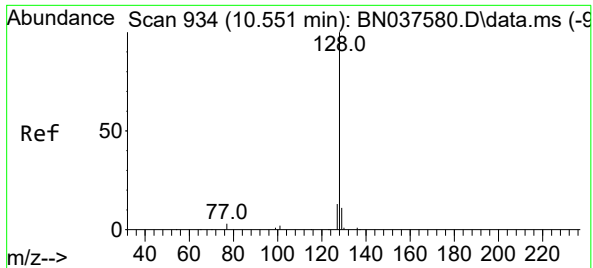
Tgt Ion:	136	Resp:	5823
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	9.1	7.3	10.9
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.391 ng
RT: 8.843 min Scan# 774
Delta R.T. -0.011 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:	82	Resp:	1602
Ion	Ratio	Lower	Upper
82	100		
128	40.0	32.6	48.8
54	62.5	48.9	73.3

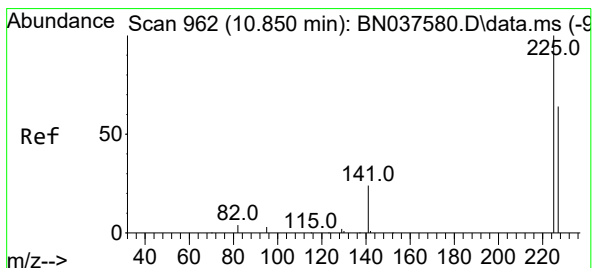
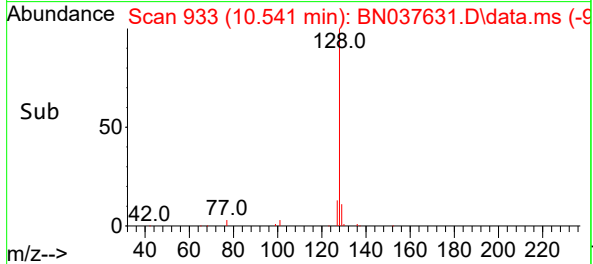
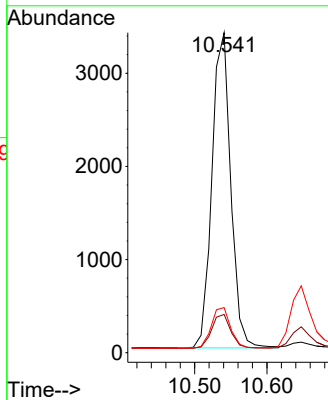
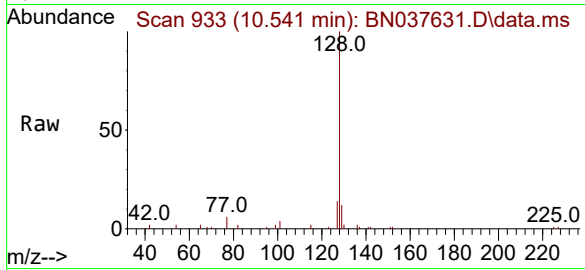




#9
Naphthalene
Concen: 0.394 ng
RT: 10.541 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

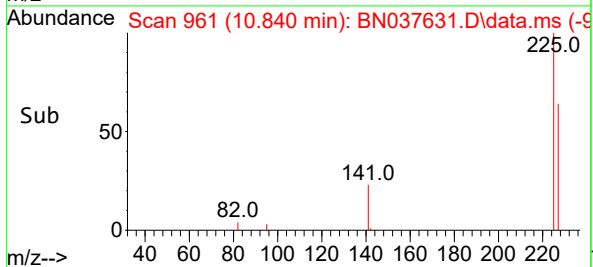
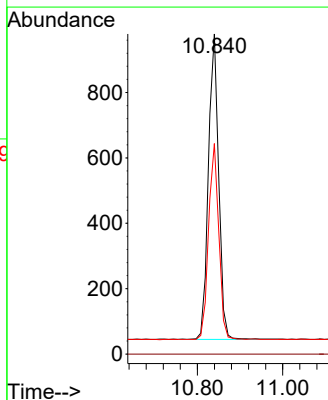
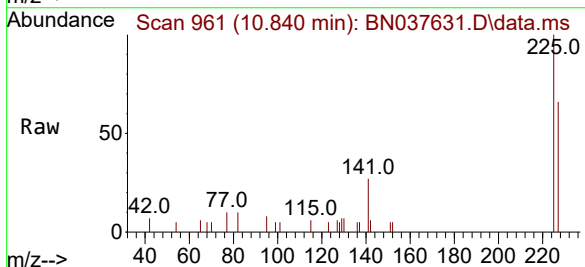
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

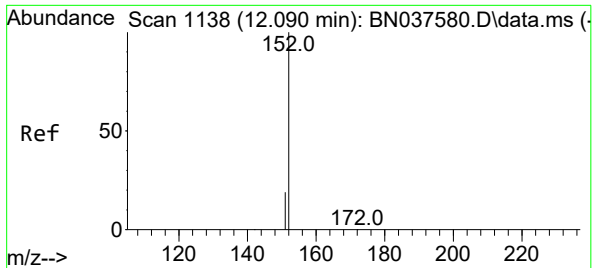
Tgt Ion:	128	Resp:	6112
Ion	Ratio	Lower	Upper
128	100		
129	11.9	9.8	14.6
127	14.1	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:	225	Resp:	1557
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.5	50.8	76.2

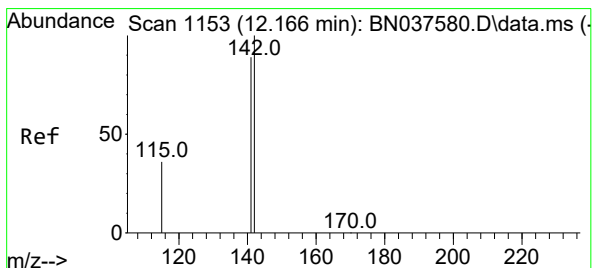
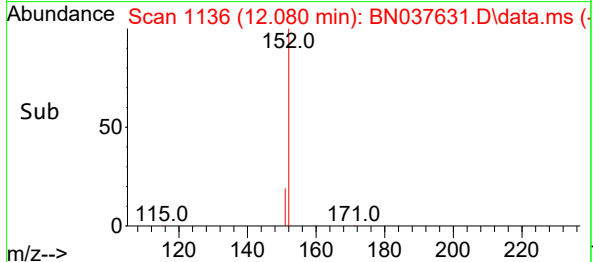
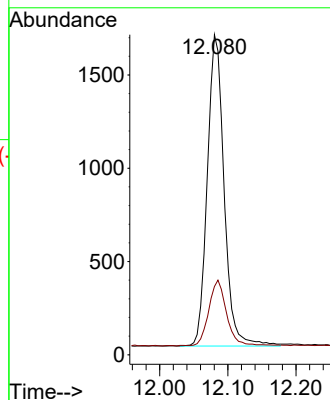
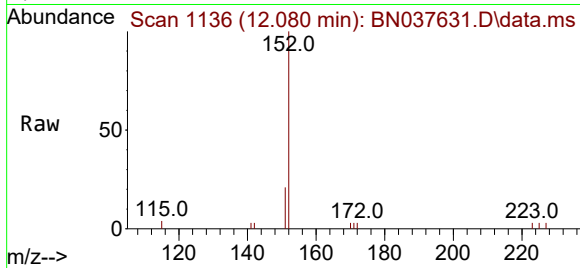




#11
2-Methylnaphthalene-d10
Concen: 0.361 ng
RT: 12.080 min Scan# 1138
Delta R.T. -0.010 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

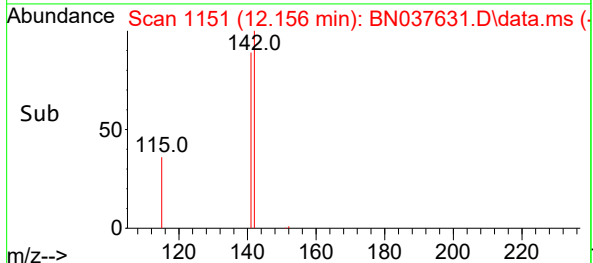
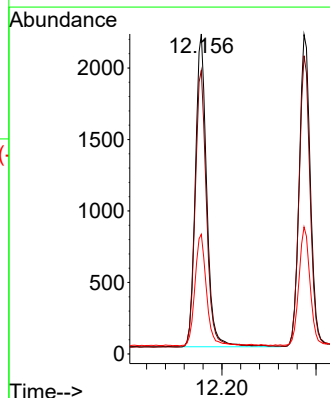
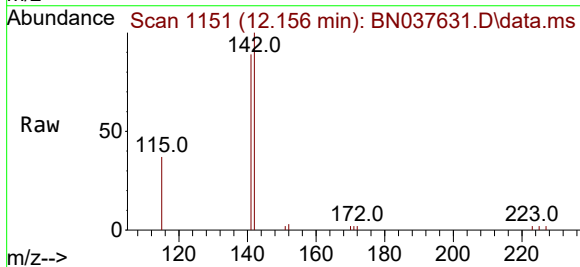
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

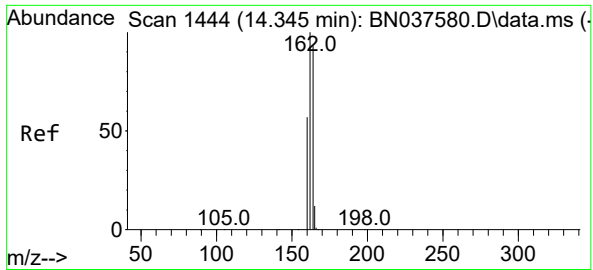
Tgt Ion:152 Resp: 2860
Ion Ratio Lower Upper
152 100
151 22.2 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.379 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:142 Resp: 3683
Ion Ratio Lower Upper
142 100
141 88.6 71.4 107.0
115 37.4 30.2 45.4

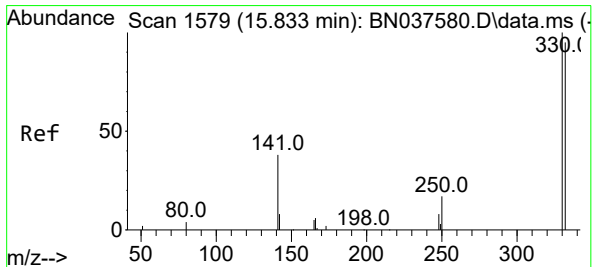
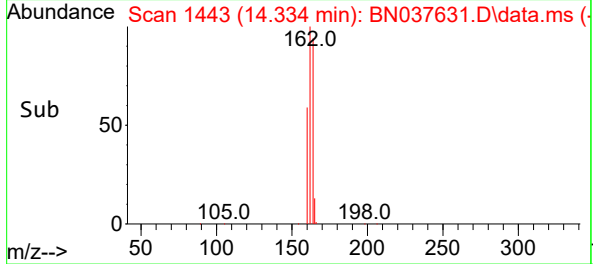
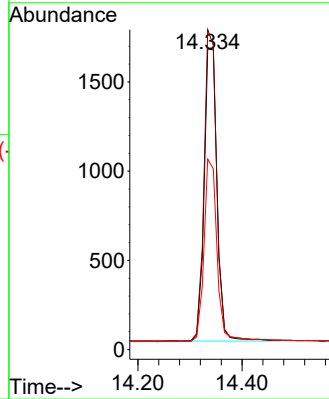
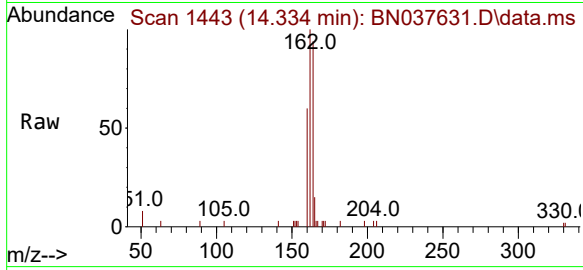




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.334 min Scan# 1443
Delta R.T. -0.011 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

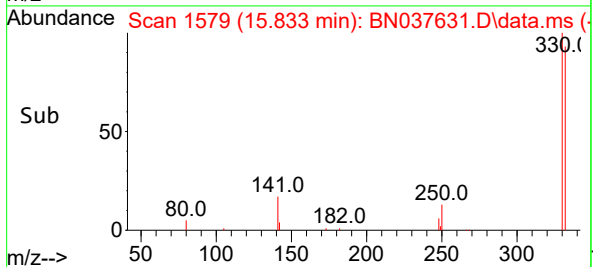
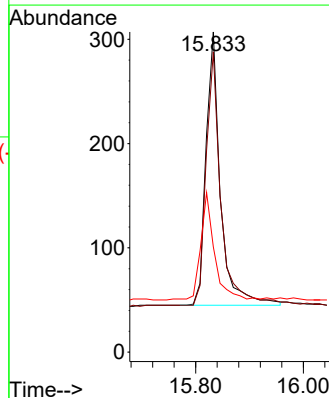
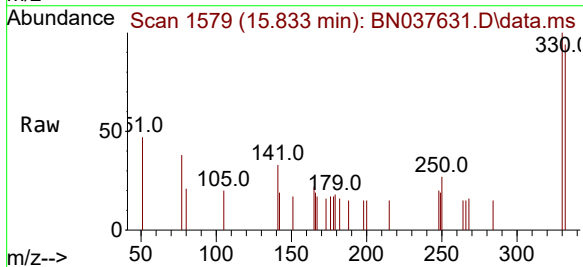
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

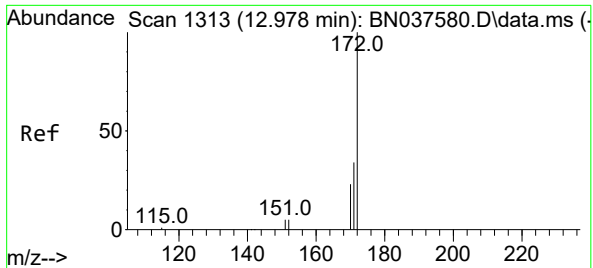
Tgt Ion:164 Resp: 2830
Ion Ratio Lower Upper
164 100
162 106.4 85.5 128.3
160 63.4 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.394 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:330 Resp: 488
Ion Ratio Lower Upper
330 100
332 94.9 77.4 116.0
141 37.9 30.9 46.3

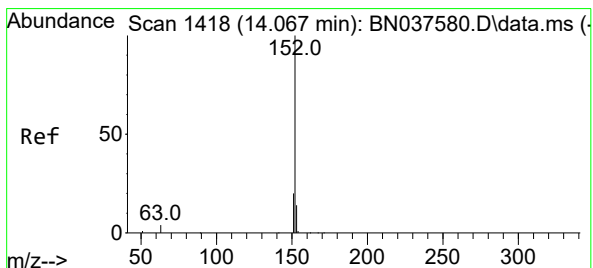
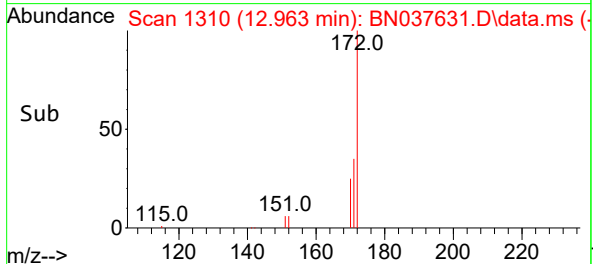
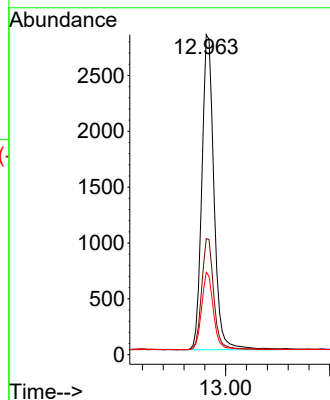
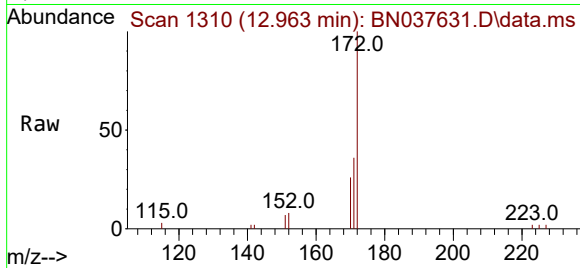




#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 12.963 min Scan# 11
Delta R.T. -0.015 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

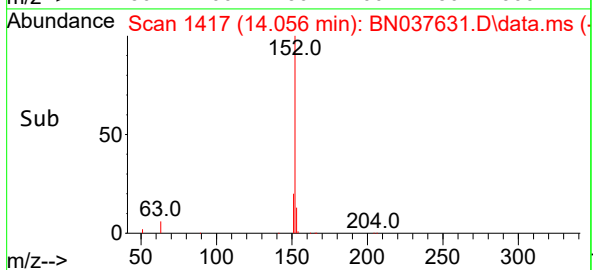
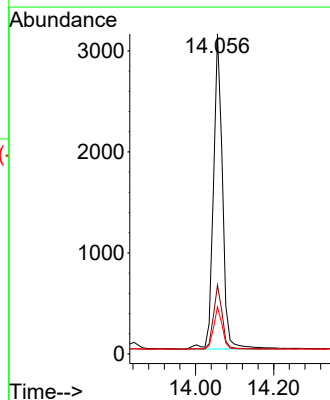
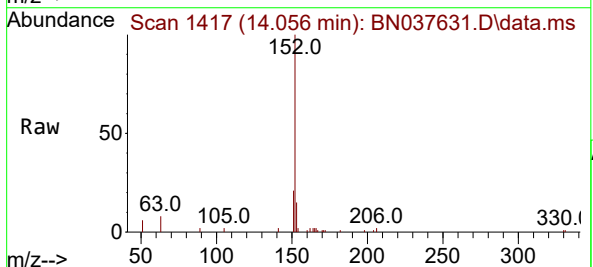
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

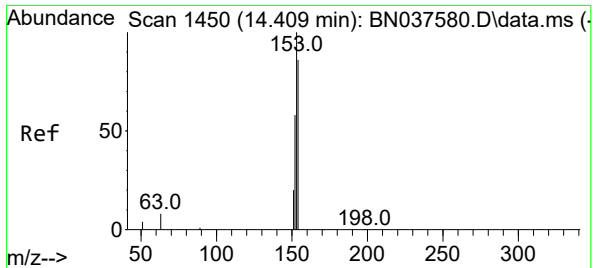
Tgt Ion:	172	Resp:	6104
Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.2	42.4
170	25.8	19.2	28.8



#16
Acenaphthylene
Concen: 0.396 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:	152	Resp:	5018
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	13.2	10.7	16.1

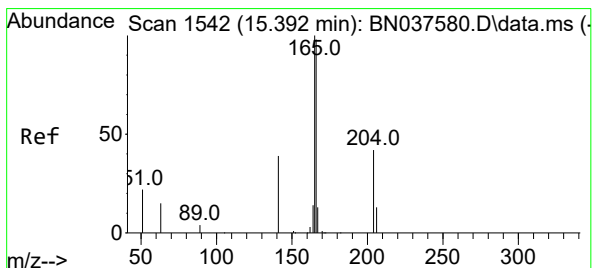
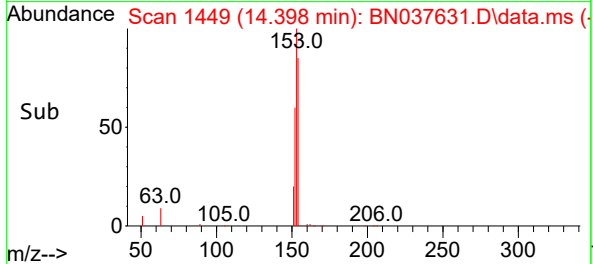
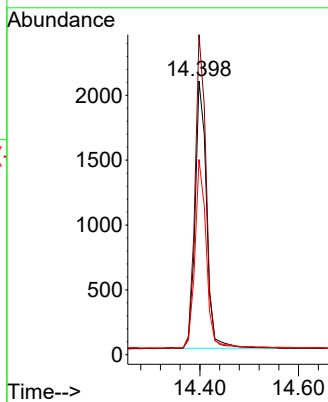
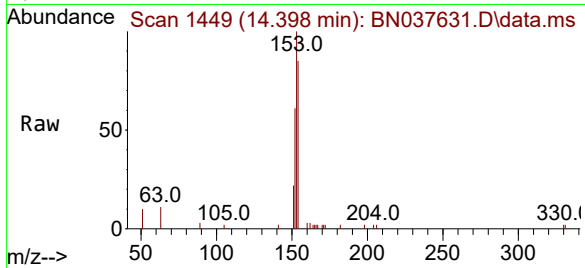




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

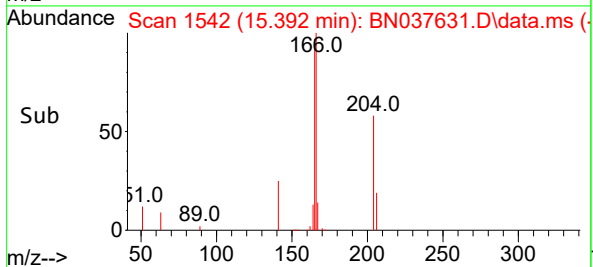
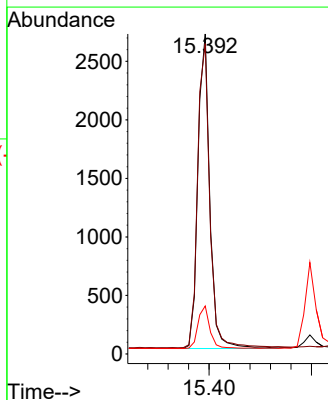
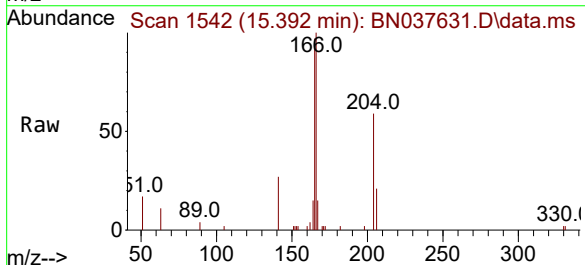
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

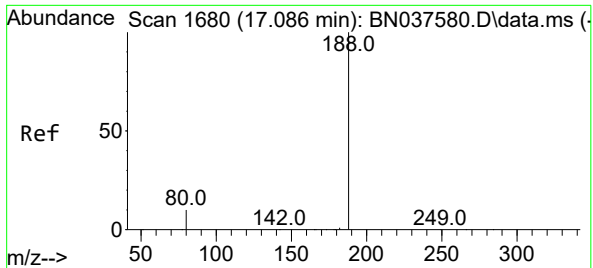
Tgt Ion:154 Resp: 3301
Ion Ratio Lower Upper
154 100
153 115.4 90.6 135.8
152 70.5 54.9 82.3



#18
Fluorene
Concen: 0.391 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:166 Resp: 4411
Ion Ratio Lower Upper
166 100
165 98.5 78.9 118.3
167 13.5 10.7 16.1

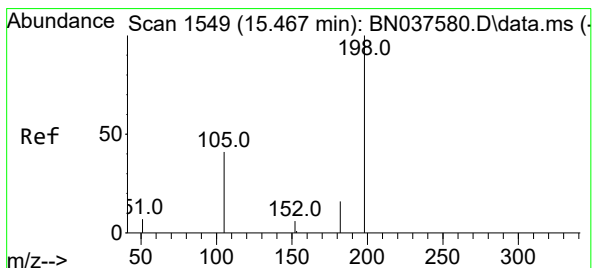
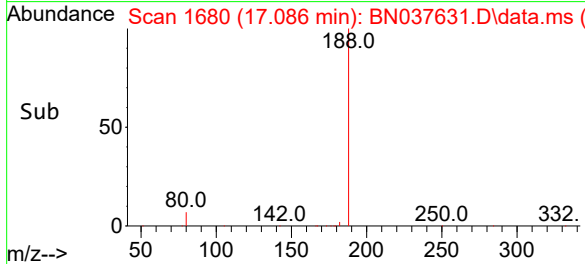
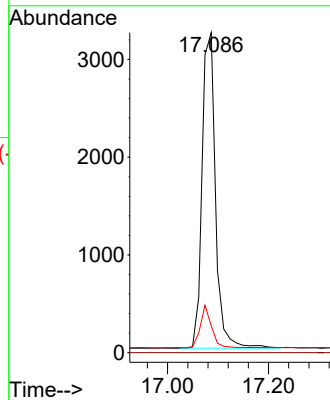
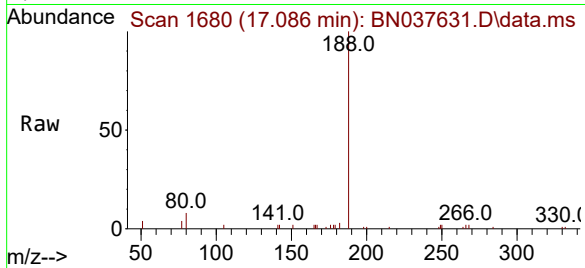




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

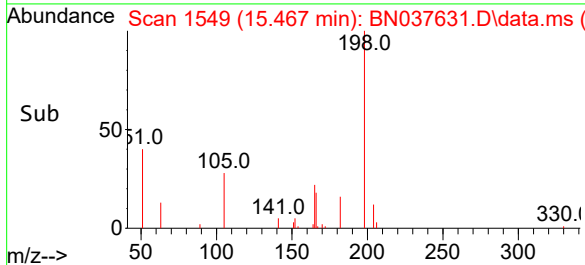
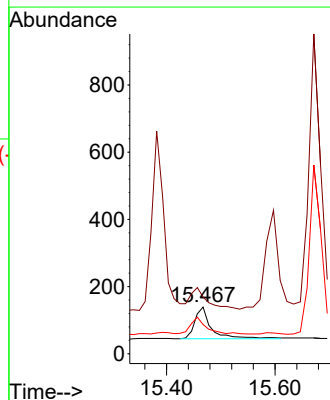
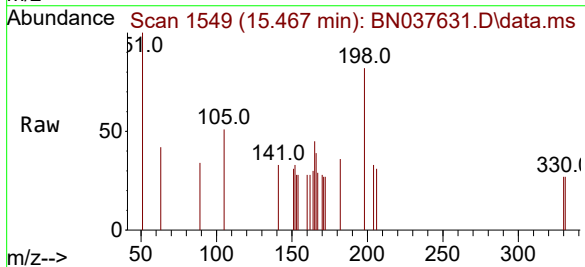
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

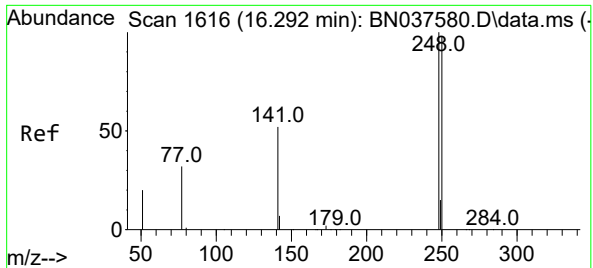
Tgt Ion:188 Resp: 5994
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.4 9.1 13.7#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.373 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:198 Resp: 209
Ion Ratio Lower Upper
198 100
51 121.6 81.0 121.6#
105 62.6 52.5 78.7

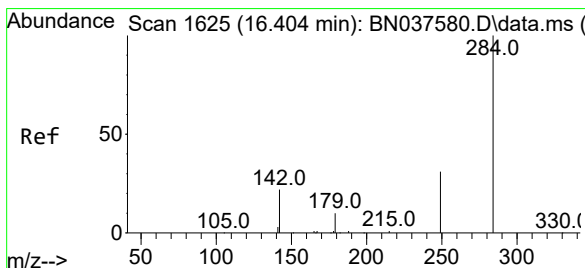
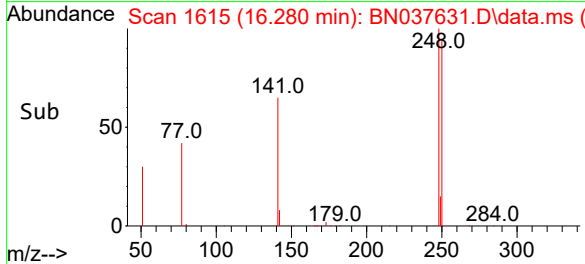
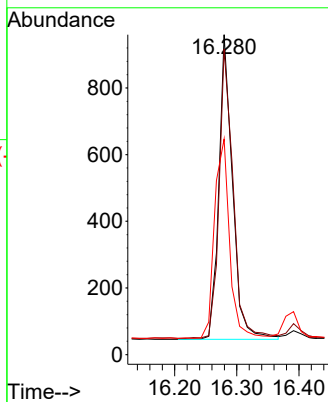
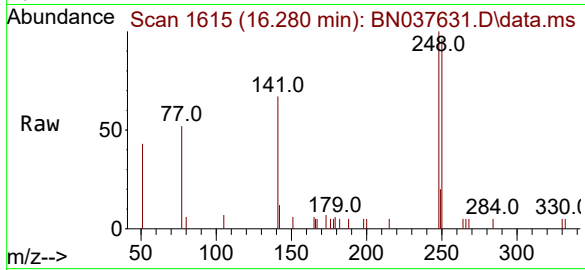




#21
4-Bromophenyl-phenylether
Concen: 0.370 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

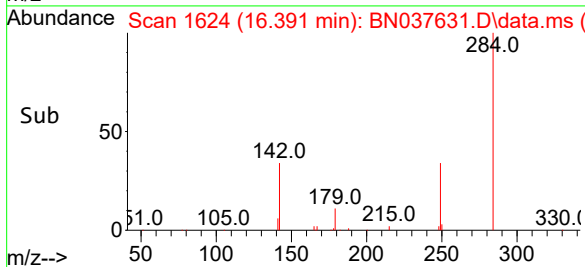
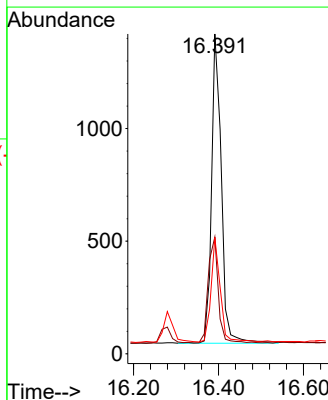
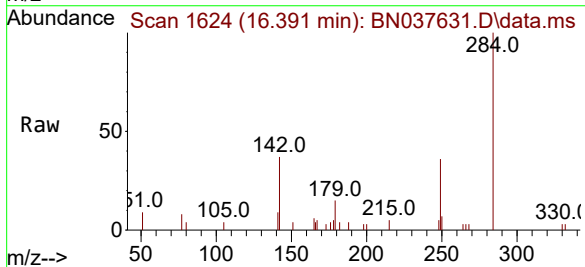
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

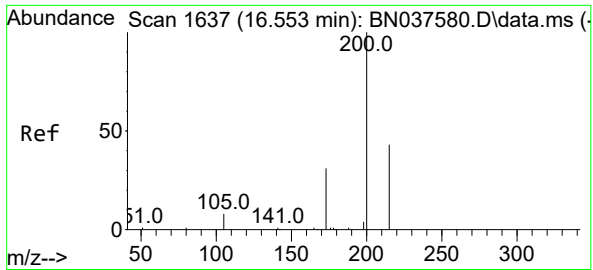
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.5	78.6	118.0
141	67.4	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.6	29.8	44.6
249	31.9	26.0	39.0

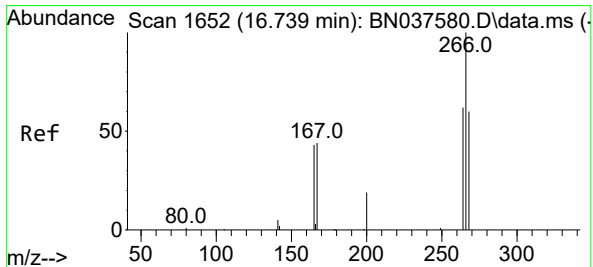
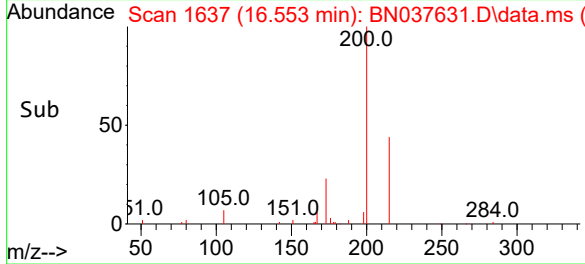
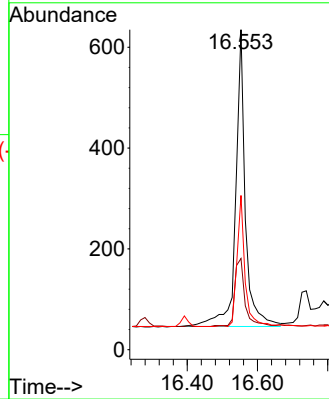
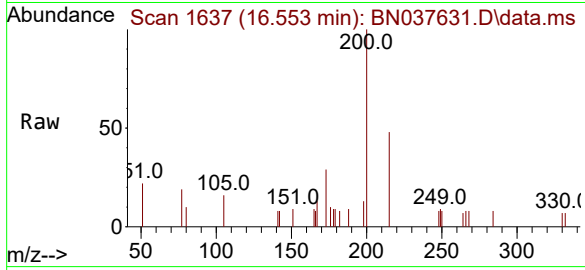




#23
Atrazine
Concen: 0.529 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

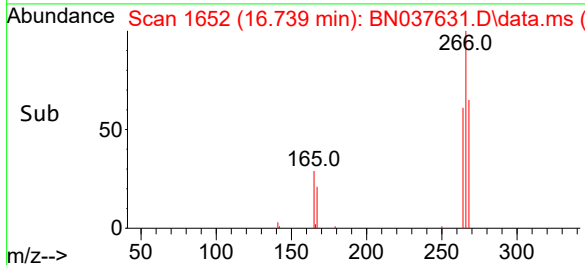
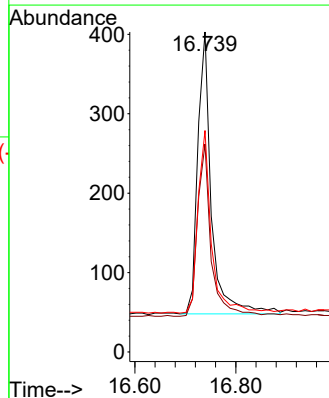
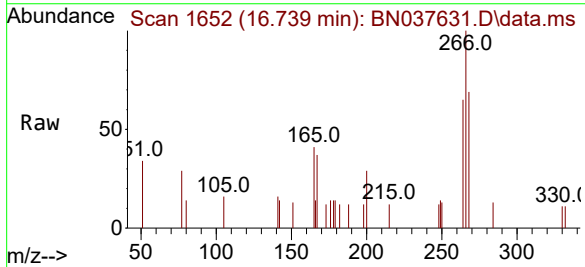
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

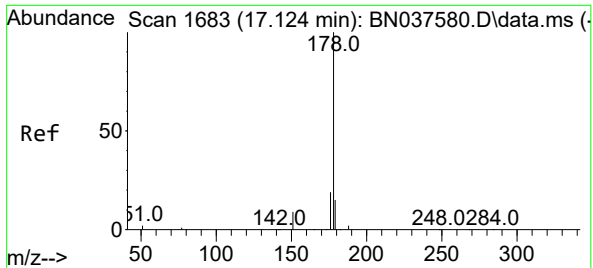
Tgt Ion:200 Resp: 1127
Ion Ratio Lower Upper
200 100
173 28.5 31.0 46.4#
215 48.2 39.4 59.0



#24
Pentachlorophenol
Concen: 0.356 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:266 Resp: 668
Ion Ratio Lower Upper
266 100
264 60.5 49.6 74.4
268 64.8 49.2 73.8

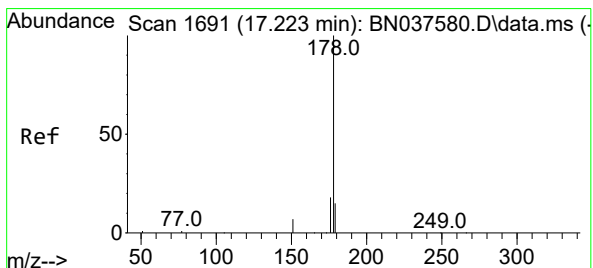
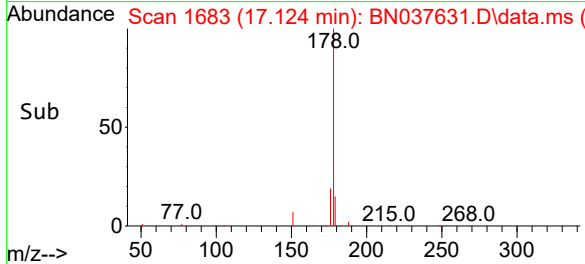
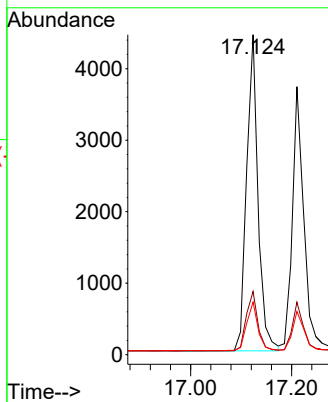
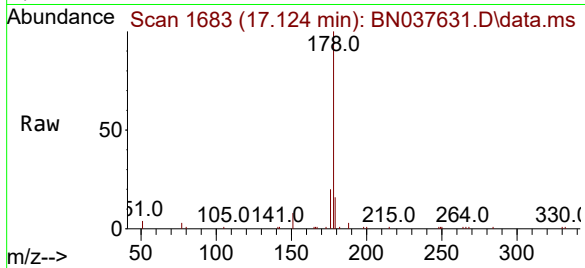




#25
Phenanthrene
Concen: 0.382 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

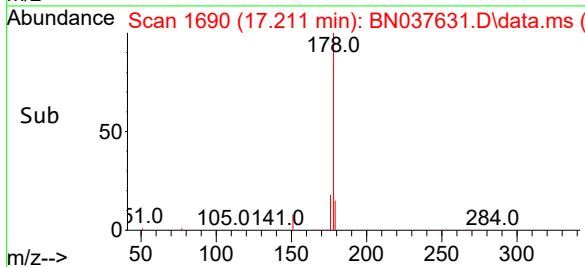
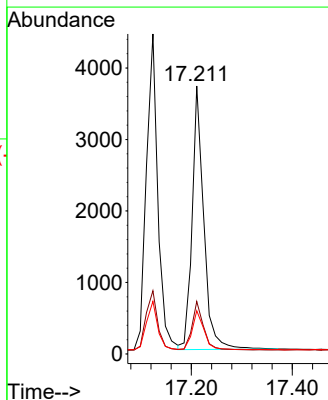
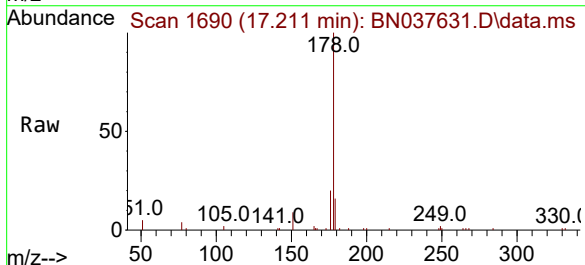
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

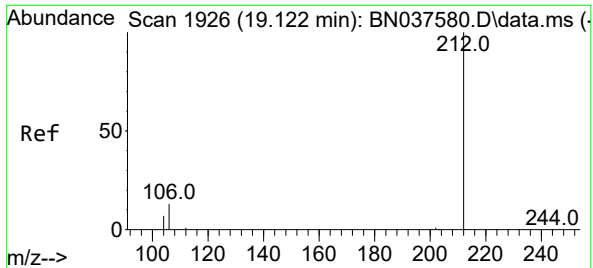
Tgt Ion:178 Resp: 6964
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.366 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:178 Resp: 5907
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.359 ng

RT: 19.113 min Scan# 1924

Delta R.T. -0.009 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

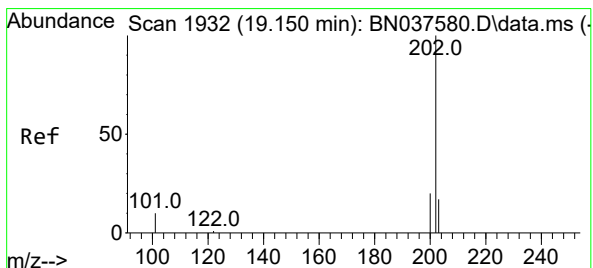
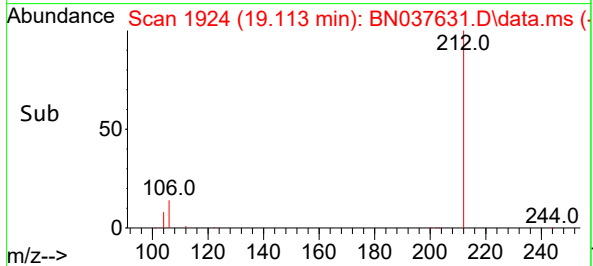
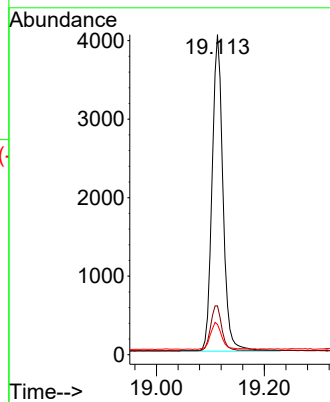
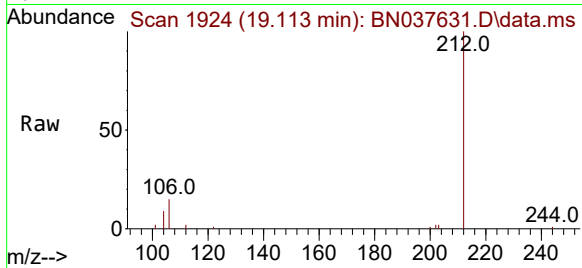
Tgt Ion:212 Resp: 5661

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.9 6.6 9.8



#28

Fluoranthene

Concen: 0.368 ng

RT: 19.146 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

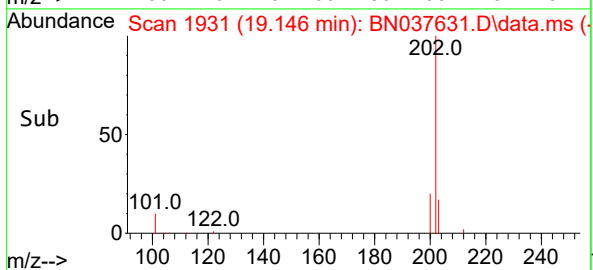
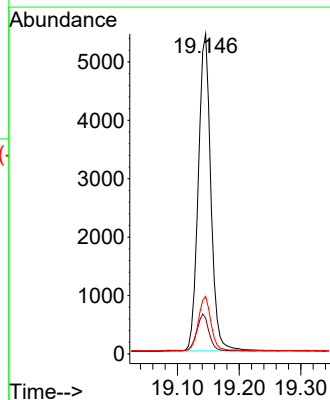
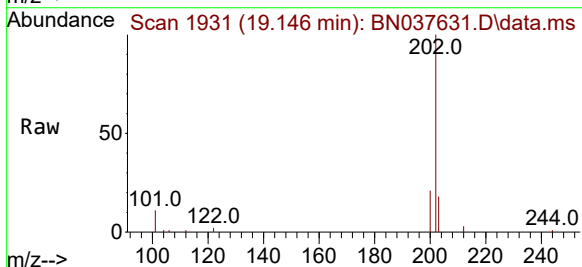
Tgt Ion:202 Resp: 7700

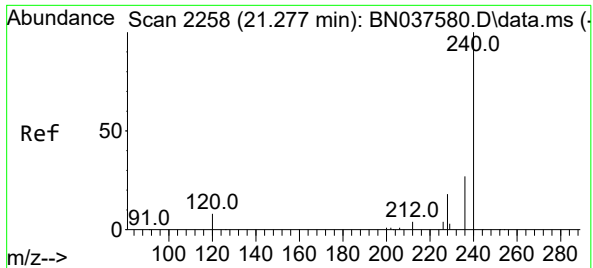
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

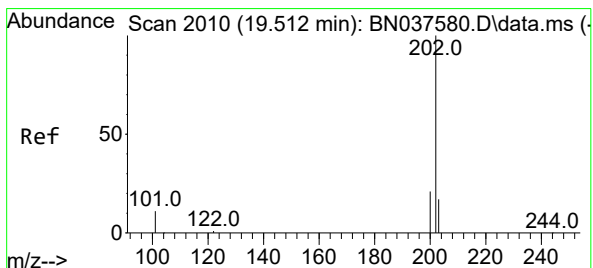
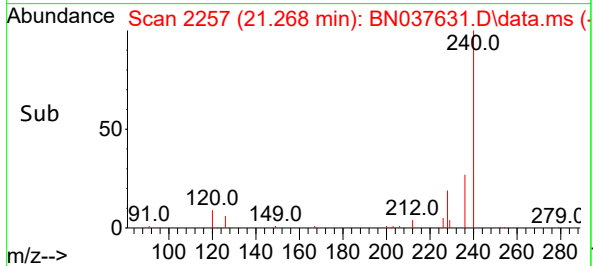
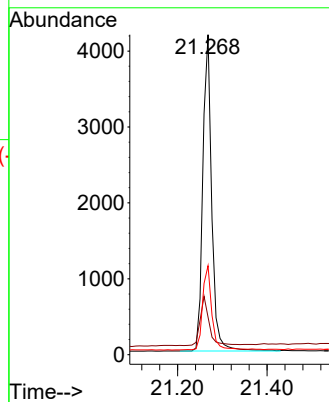
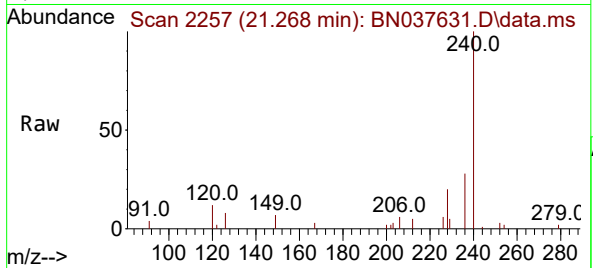
Tgt Ion:240 Resp: 5773

Ion Ratio Lower Upper

240 100

120 11.8 8.9 13.3

236 27.8 22.6 33.8



#30

Pyrene

Concen: 0.354 ng

RT: 19.503 min Scan# 2008

Delta R.T. -0.009 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

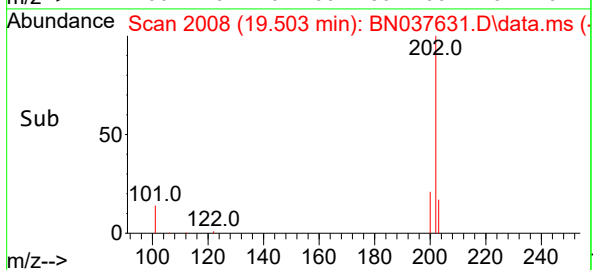
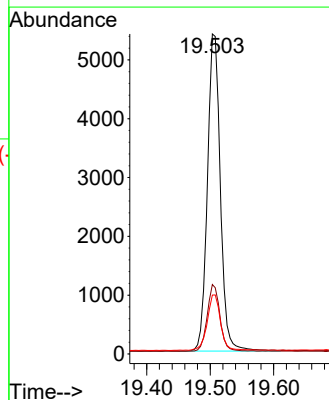
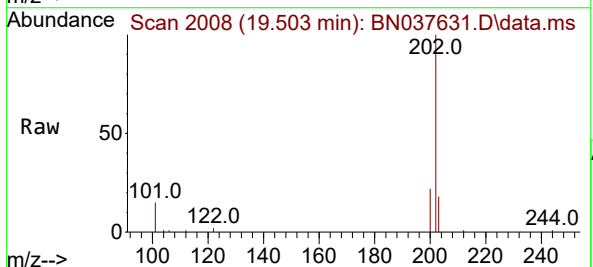
Tgt Ion:202 Resp: 7633

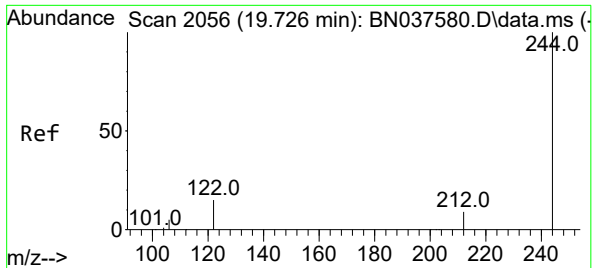
Ion Ratio Lower Upper

202 100

200 20.7 16.6 25.0

203 18.2 14.3 21.5

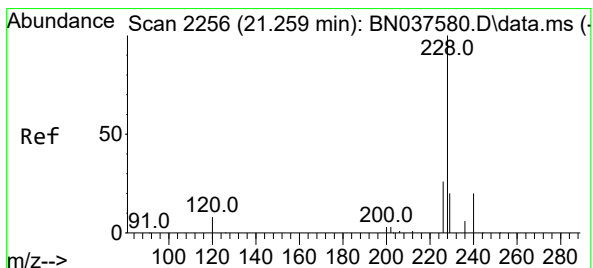
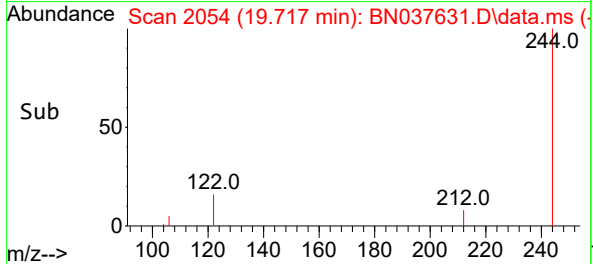
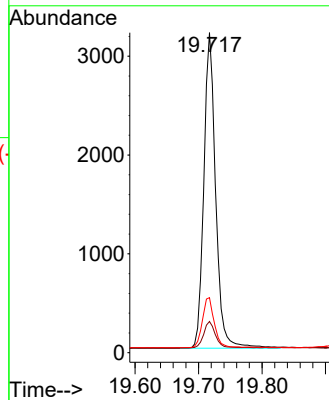
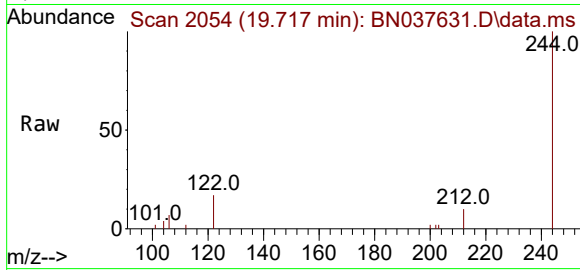




#31
Terphenyl-d14
Concen: 0.348 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

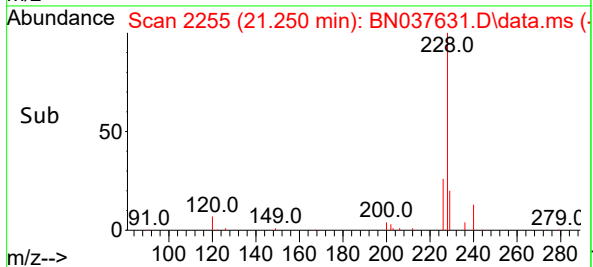
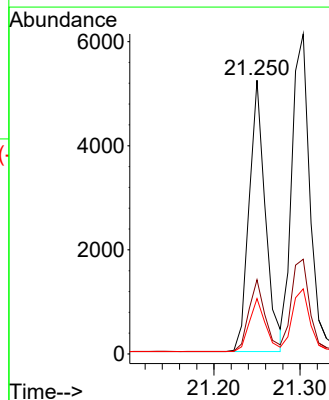
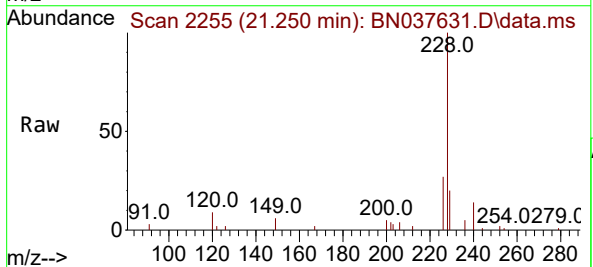
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

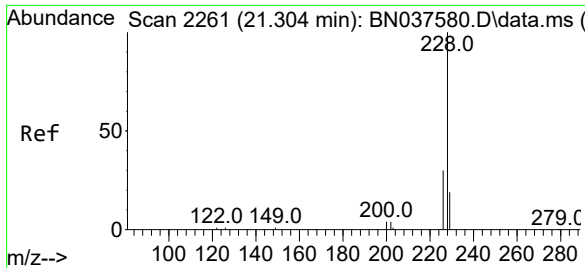
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.2	12.2
122	17.2	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.356 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.5	32.3
229	20.2	16.5	24.7

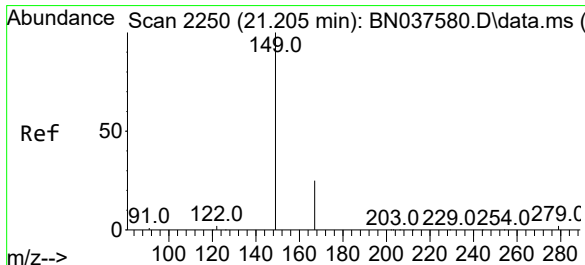
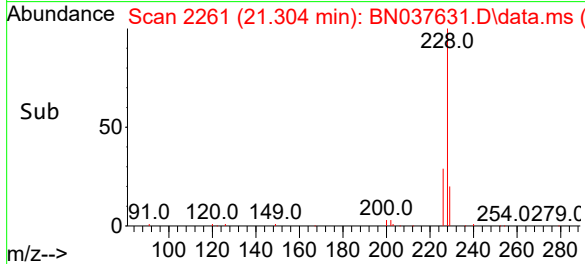
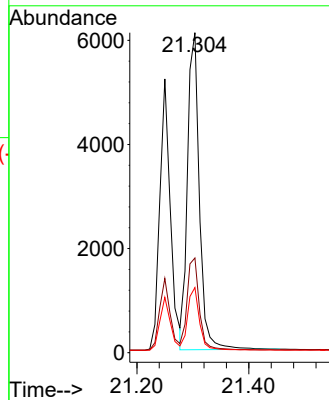
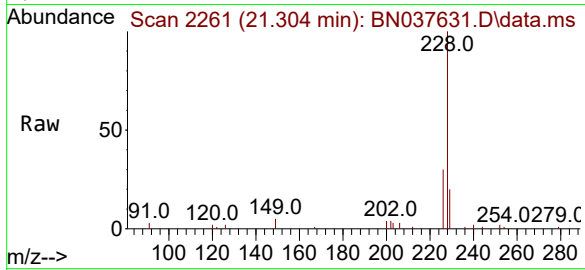




#33
Chrysene
Concen: 0.420 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

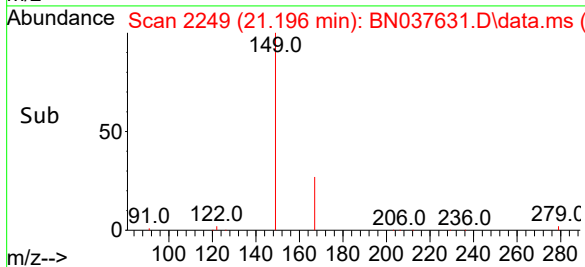
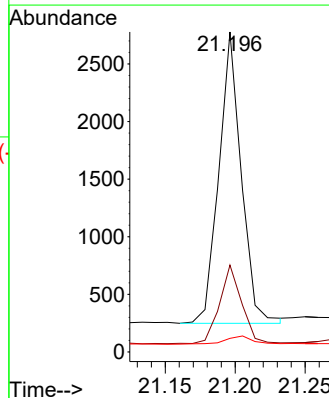
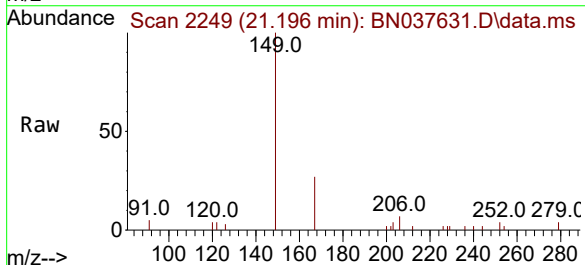
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

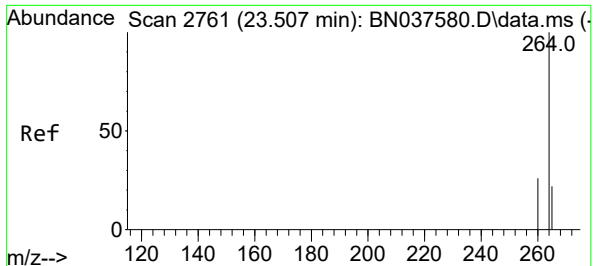
Tgt Ion:	228	Resp:	9019
Ion Ratio	Lower	Upper	
228	100		
226	29.6	24.9	37.3
229	20.3	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.353 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.009 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:	149	Resp:	2807
Ion Ratio	Lower	Upper	
149	100		
167	26.6	20.5	30.7
279	4.0	2.6	4.0

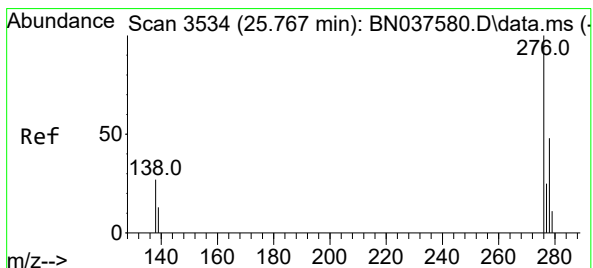
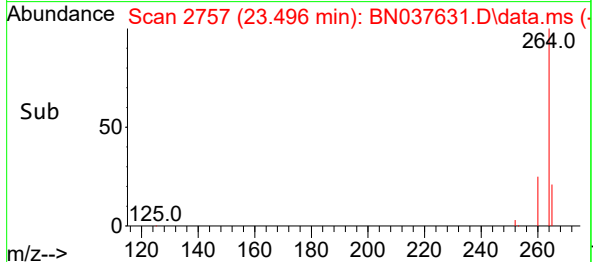
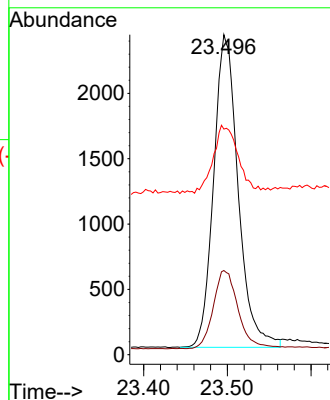
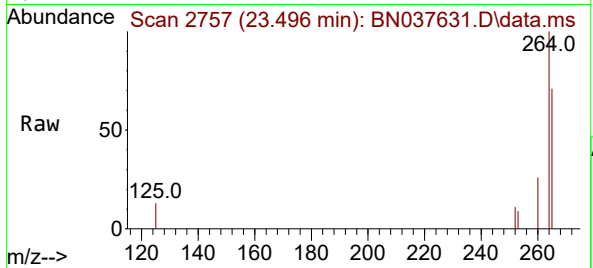




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.496 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

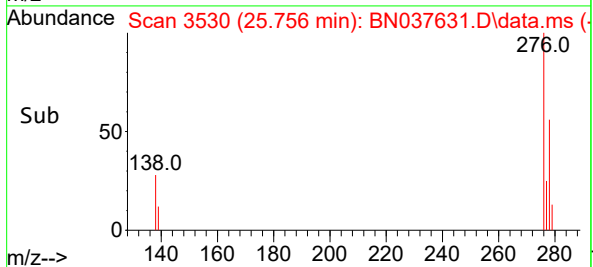
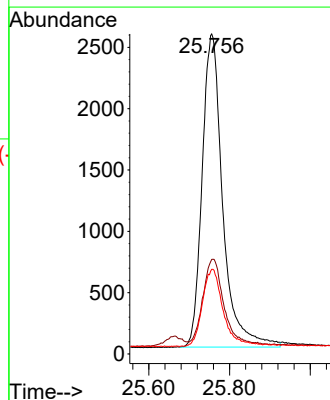
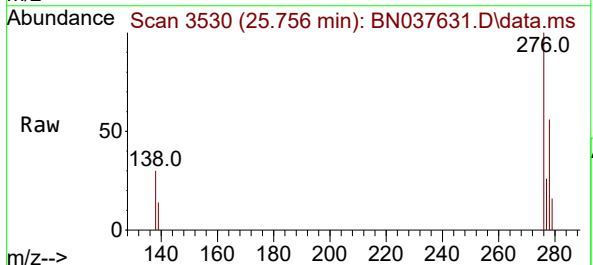
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

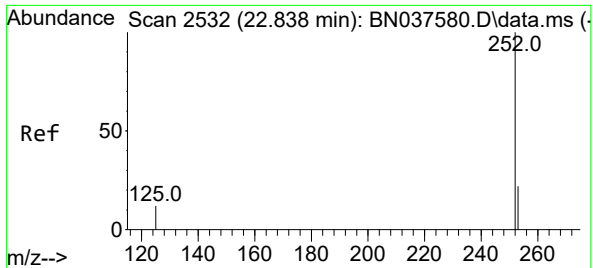
Tgt Ion:264 Resp: 4873
Ion Ratio Lower Upper
264 100
260 26.3 21.6 32.4
265 70.5 48.2 72.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.441 ng
RT: 25.756 min Scan# 3530
Delta R.T. -0.012 min
Lab File: BN037631.D
Acq: 20 Aug 2025 14:56

Tgt Ion:276 Resp: 9057
Ion Ratio Lower Upper
276 100
138 27.4 23.3 34.9
277 24.8 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.450 ng

RT: 22.826 min Scan# 2528

Delta R.T. -0.012 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

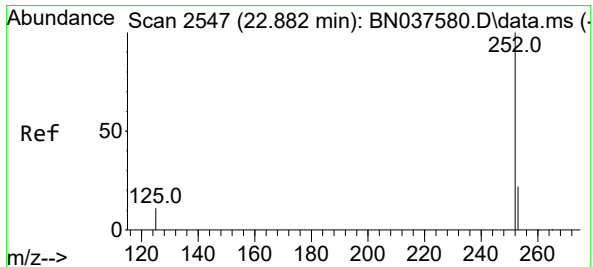
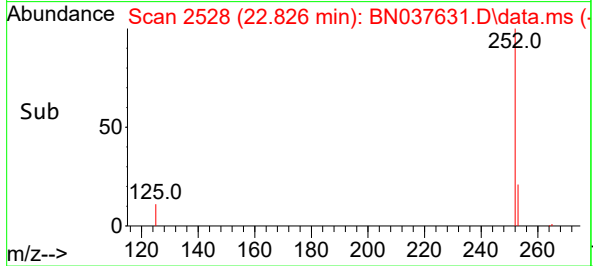
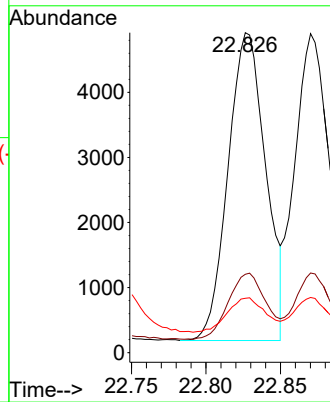
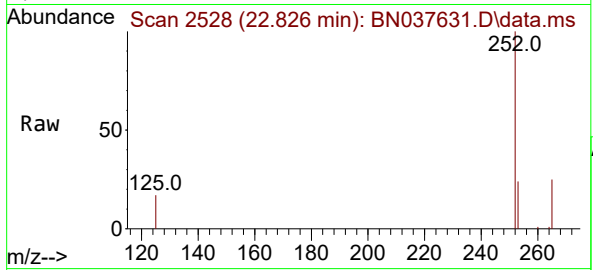
Tgt Ion:252 Resp: 8313

Ion Ratio Lower Upper

252 100

253 24.5 20.0 30.0

125 17.0 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.393 ng

RT: 22.870 min Scan# 2543

Delta R.T. -0.012 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

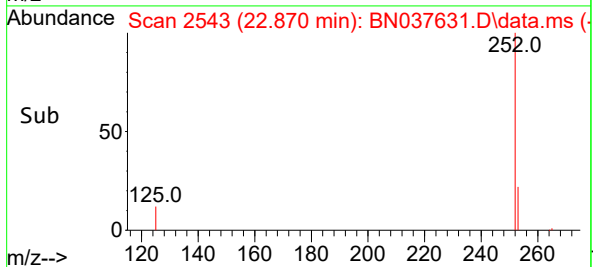
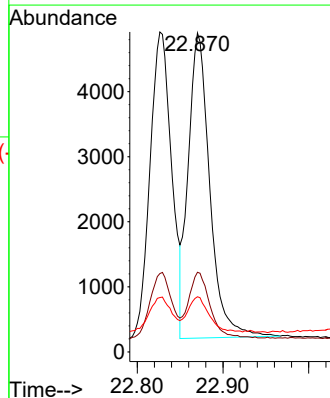
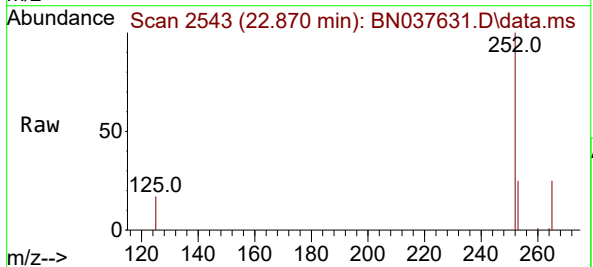
Tgt Ion:252 Resp: 8183

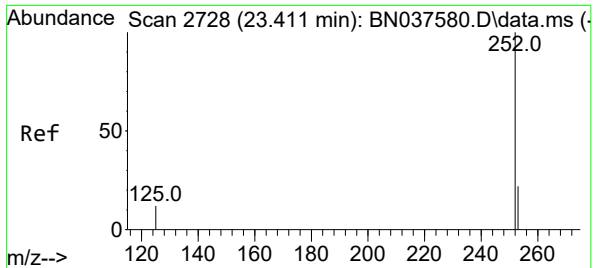
Ion Ratio Lower Upper

252 100

253 25.0 19.9 29.9

125 17.3 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.397 ng

RT: 23.399 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

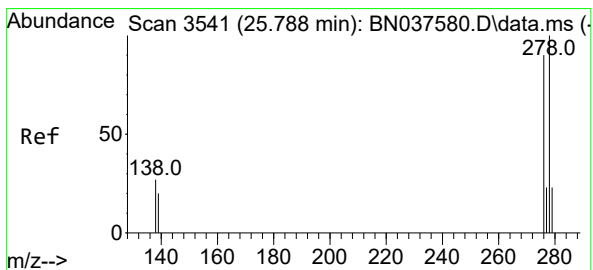
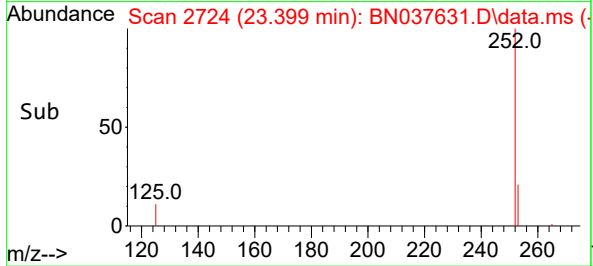
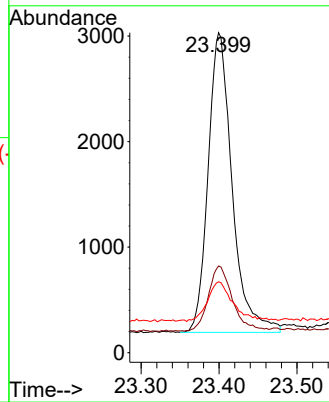
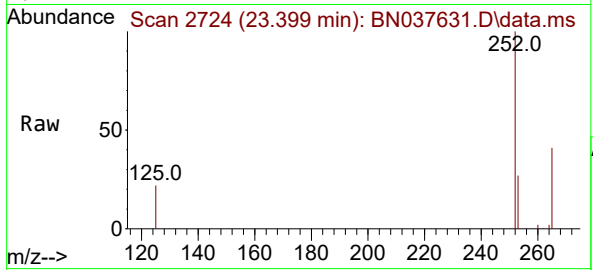
Tgt Ion:252 Resp: 6077

Ion Ratio Lower Upper

252 100

253 27.1 21.6 32.4

125 22.1 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.435 ng

RT: 25.773 min Scan# 3536

Delta R.T. -0.014 min

Lab File: BN037631.D

Acq: 20 Aug 2025 14:56

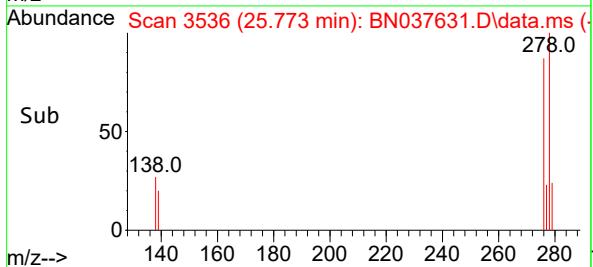
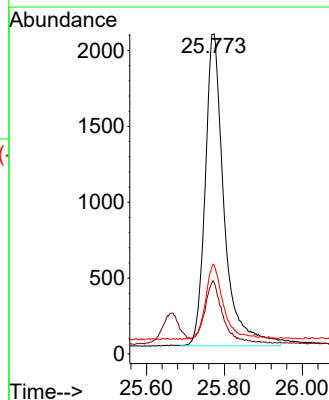
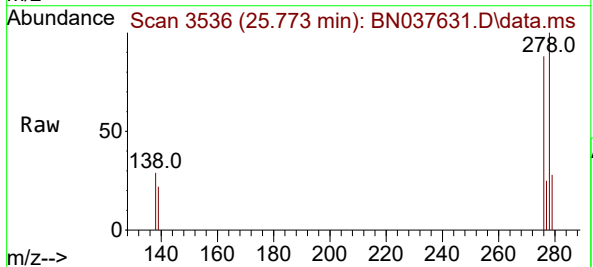
Tgt Ion:278 Resp: 6925

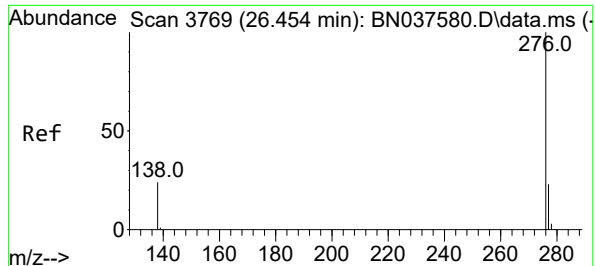
Ion Ratio Lower Upper

278 100

139 22.4 18.3 27.5

279 27.8 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.442 ng

RT: 26.443 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037631.D

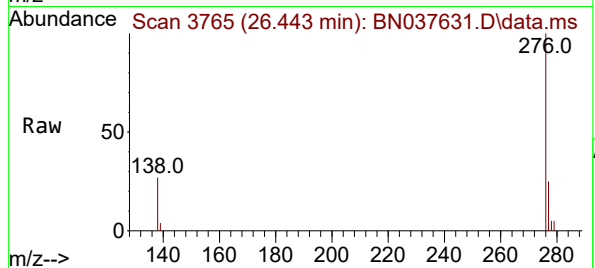
Acq: 20 Aug 2025 14:56

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



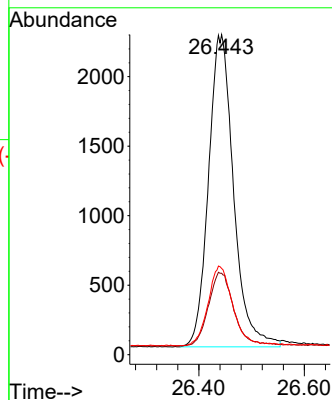
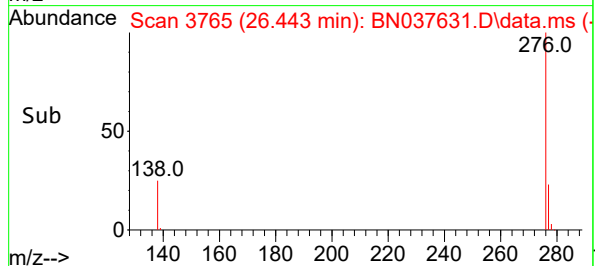
Tgt Ion:276 Resp: 7413

Ion Ratio Lower Upper

276 100

277 25.5 21.0 31.4

138 26.9 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037631.D
 Acq On : 20 Aug 2025 14:56
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 21 04:14:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 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	117	0.00
2	1,4-Dioxane	0.383	0.377	1.6	111	0.00
3	n-Nitrosodimethylamine	0.489	0.465	4.9	111	0.00
4 S	2-Fluorophenol	0.907	0.853	6.0	112	0.00
5 S	Phenol-d6	1.091	0.982	10.0	110	0.00
6	bis(2-Chloroethyl)ether	0.983	0.925	5.9	111	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	113	-0.01
8 S	Nitrobenzene-d5	0.282	0.275	2.5	119	-0.01
9	Naphthalene	1.065	1.050	1.4	115	-0.01
10	Hexachlorobutadiene	0.260	0.267	-2.7	116	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.491	9.7	110	0.00
12	2-Methylnaphthalene	0.668	0.632	5.4	113	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	112	-0.01
14 S	2,4,6-Tribromophenol	0.175	0.172	1.7	123	0.00
15 S	2-Fluorobiphenyl	2.313	2.157	6.7	105	-0.02
16	Acenaphthylene	1.793	1.773	1.1	116	-0.01
17	Acenaphthene	1.220	1.166	4.4	111	-0.01
18	Fluorene	1.596	1.559	2.3	114	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	119	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.035	34.0#	90	0.00
21	4-Bromophenyl-phenylether	0.251	0.232	7.6	118	-0.01
22	Hexachlorobenzene	0.356	0.364	-2.2	122	-0.01
23	Atrazine	0.142	0.188	-32.4#	172#	0.00
24	Pentachlorophenol	0.125	0.111	11.2	117	0.00
25	Phenanthrene	1.216	1.162	4.4	118	0.00
26	Anthracene	1.077	0.985	8.5	118	-0.01
27 SURR	Fluoranthene-d10	1.052	0.944	10.3	118	0.00
28	Fluoranthene	1.397	1.285	8.0	118	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	134	0.00
30	Pyrene	1.495	1.322	11.6	121	0.00
31 S	Terphenyl-d14	0.823	0.717	12.9	120	0.00
32	Benzo(a)anthracene	1.336	1.188	11.1	126	0.00
33	Chrysene	1.489	1.562	-4.9	146	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.486	11.8	125	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	-0.01
36	Indeno(1,2,3-cd)pyrene	1.686	1.859	-10.3	134	-0.01
37	Benzo(b)fluoranthene	1.516	1.706	-12.5	148	-0.01
38	Benzo(k)fluoranthene	1.710	1.679	1.8	118	-0.01
39 C	Benzo(a)pyrene	1.257	1.247	0.8	126	-0.01
40	Dibenzo(a,h)anthracene	1.308	1.421	-8.6	135	-0.01
41	Benzo(g,h,i)perylene	1.378	1.521	-10.4	140	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037631.D
Acq On : 20 Aug 2025 14:56
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 21 04:14:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 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	117	0.00
2	1,4-Dioxane	0.400	0.394	1.5	111	0.00
3	n-Nitrosodimethylamine	0.400	0.380	5.0	111	0.00
4 S	2-Fluorophenol	0.400	0.376	6.0	112	0.00
5 S	Phenol-d6	0.400	0.360	10.0	110	0.00
6	bis(2-Chloroethyl)ether	0.400	0.376	6.0	111	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	113	-0.01
8 S	Nitrobenzene-d5	0.400	0.391	2.3	119	-0.01
9	Naphthalene	0.400	0.394	1.5	115	-0.01
10	Hexachlorobutadiene	0.400	0.411	-2.7	116	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.361	9.8	110	0.00
12	2-Methylnaphthalene	0.400	0.379	5.3	113	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	112	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.394	1.5	123	0.00
15 S	2-Fluorobiphenyl	0.400	0.373	6.8	105	-0.02
16	Acenaphthylene	0.400	0.396	1.0	116	-0.01
17	Acenaphthene	0.400	0.383	4.3	111	-0.01
18	Fluorene	0.400	0.391	2.3	114	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	119	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.373	6.8	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.370	7.5	118	-0.01
22	Hexachlorobenzene	0.400	0.408	-2.0	122	-0.01
23	Atrazine	0.400	0.529	-32.3#	172	0.00
24	Pentachlorophenol	0.400	0.356	11.0	117	0.00
25	Phenanthrene	0.400	0.382	4.5	118	0.00
26	Anthracene	0.400	0.366	8.5	118	-0.01
27 SURR	Fluoranthene-d10	0.400	0.359	10.3	118	0.00
28	Fluoranthene	0.400	0.368	8.0	118	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	134	0.00
30	Pyrene	0.400	0.354	11.5	121	0.00
31 S	Terphenyl-d14	0.400	0.348	13.0	120	0.00
32	Benzo(a)anthracene	0.400	0.356	11.0	126	0.00
33	Chrysene	0.400	0.420	-5.0	146	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.353	11.8	125	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	-0.01
36	Indeno(1,2,3-cd)pyrene	0.400	0.441	-10.2	134	-0.01
37	Benzo(b)fluoranthene	0.400	0.450	-12.5	148	-0.01
38	Benzo(k)fluoranthene	0.400	0.393	1.8	118	-0.01
39 C	Benzo(a)pyrene	0.400	0.397	0.8	126	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.435	-8.7	135	-0.01
41	Benzo(g,h,i)perylene	0.400	0.442	-10.5	140	-0.01

(#) = Out of Range

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



QC SAMPLE DATA

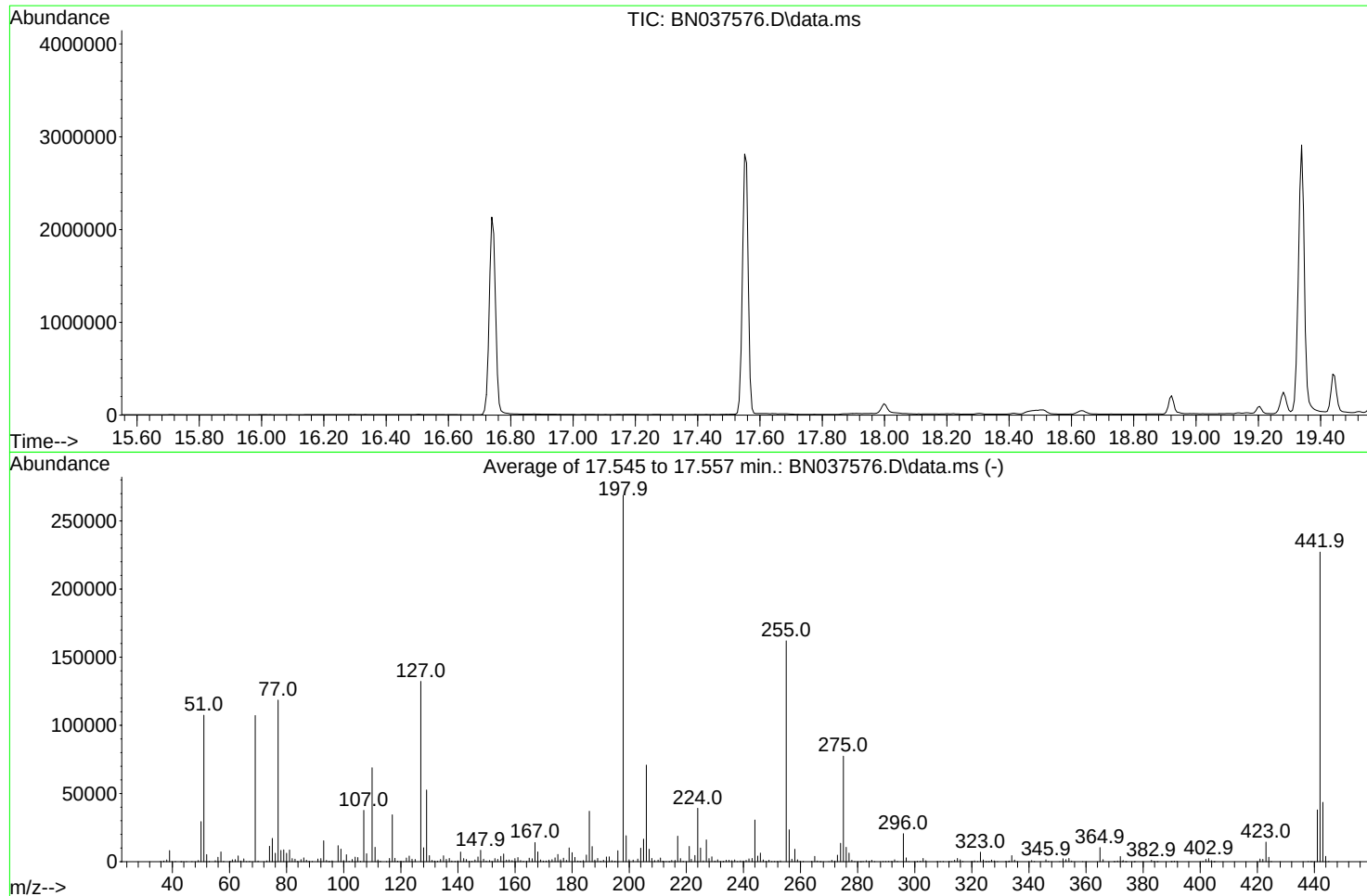
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
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-BN081225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 13 05:00:58 2025



AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	107227	PASS
70	69	0.00	2	0.6	598	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	268651	PASS
199	198	5	9	7.1	19058	PASS
365	198	1	100	3.9	10363	PASS
441	443	0.01	150	87.2	38019	PASS
442	442	100	100	100.0	227139	PASS
443	442	15	24	19.2	43589	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

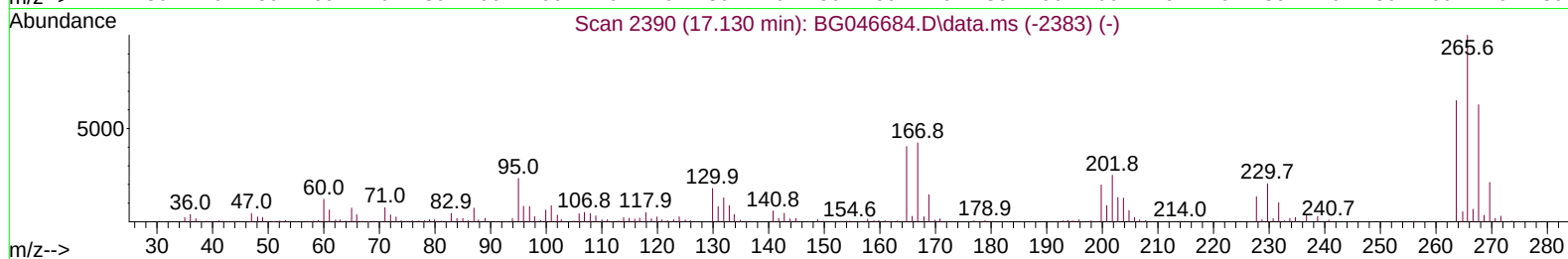
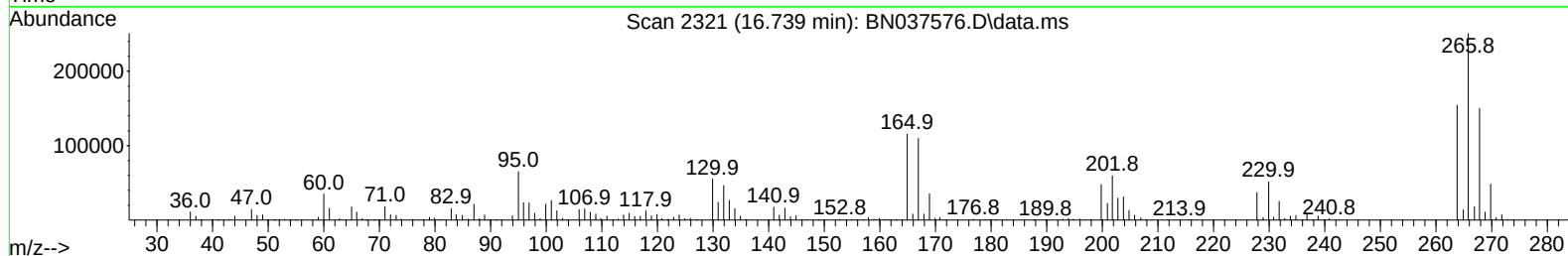
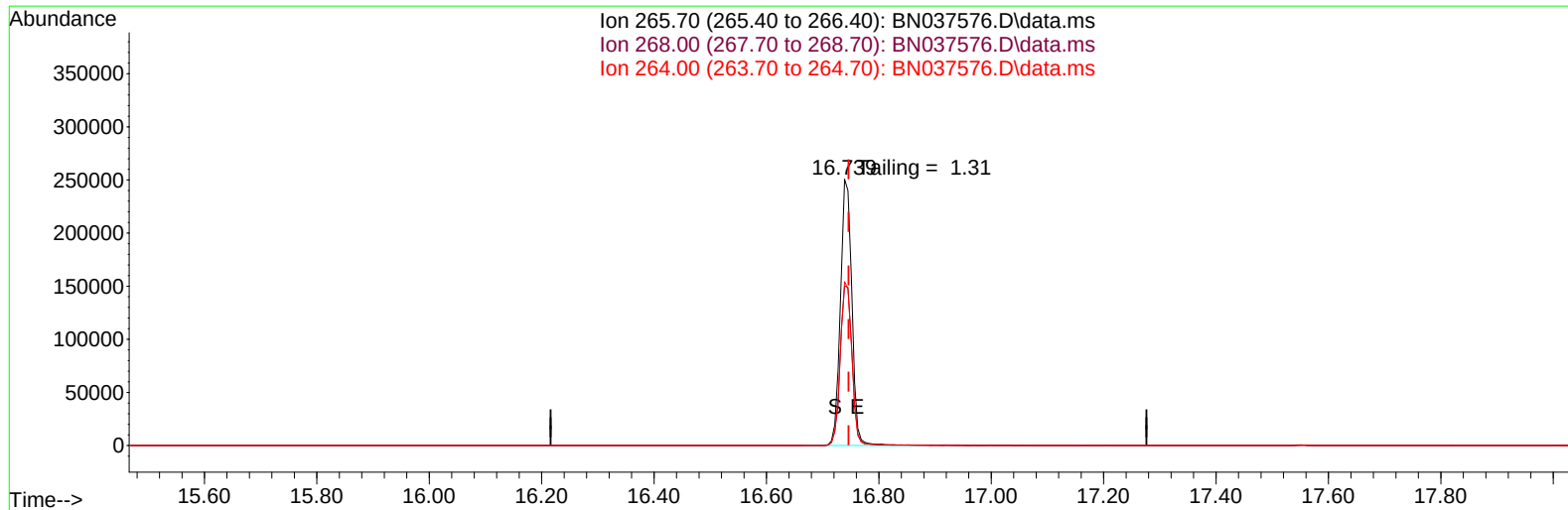
DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/12/2025	BNA_N	<u>BN037576.D</u>
Compound Name	Response	Retention Time
DDT	903527	20.586
DDD	9291	20.192
DDE	170	19.633
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
9461	912988	1.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 13 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037576.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.007) 29662.60 ng

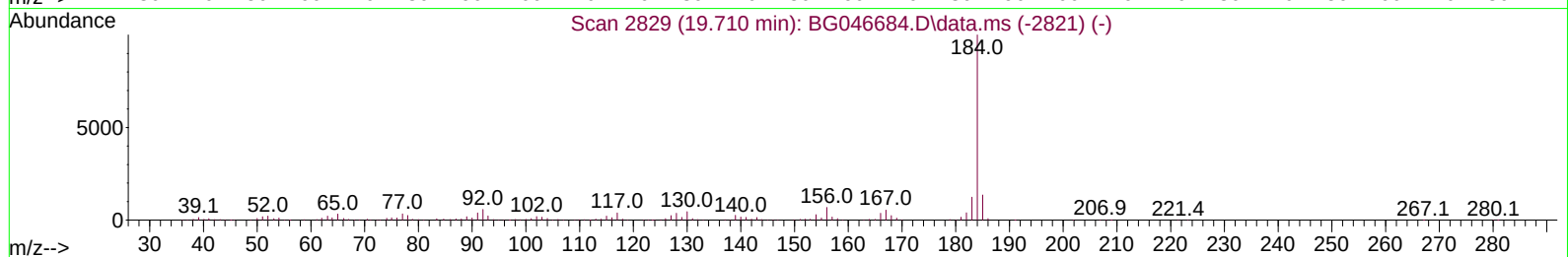
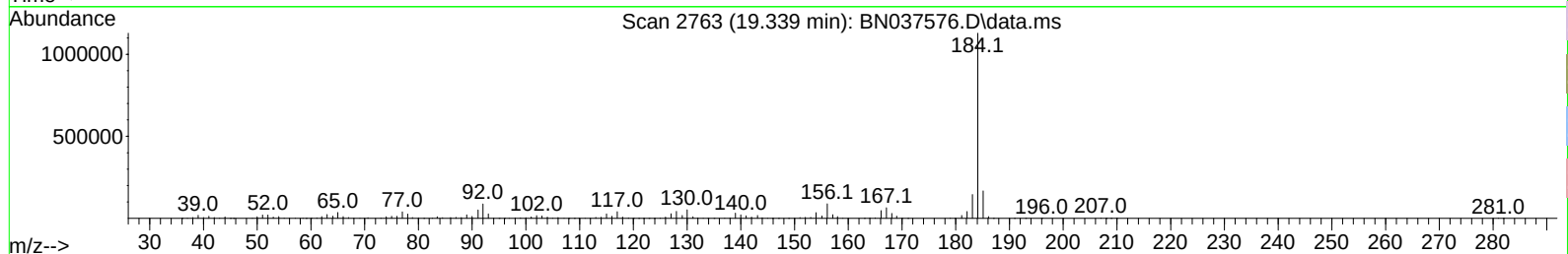
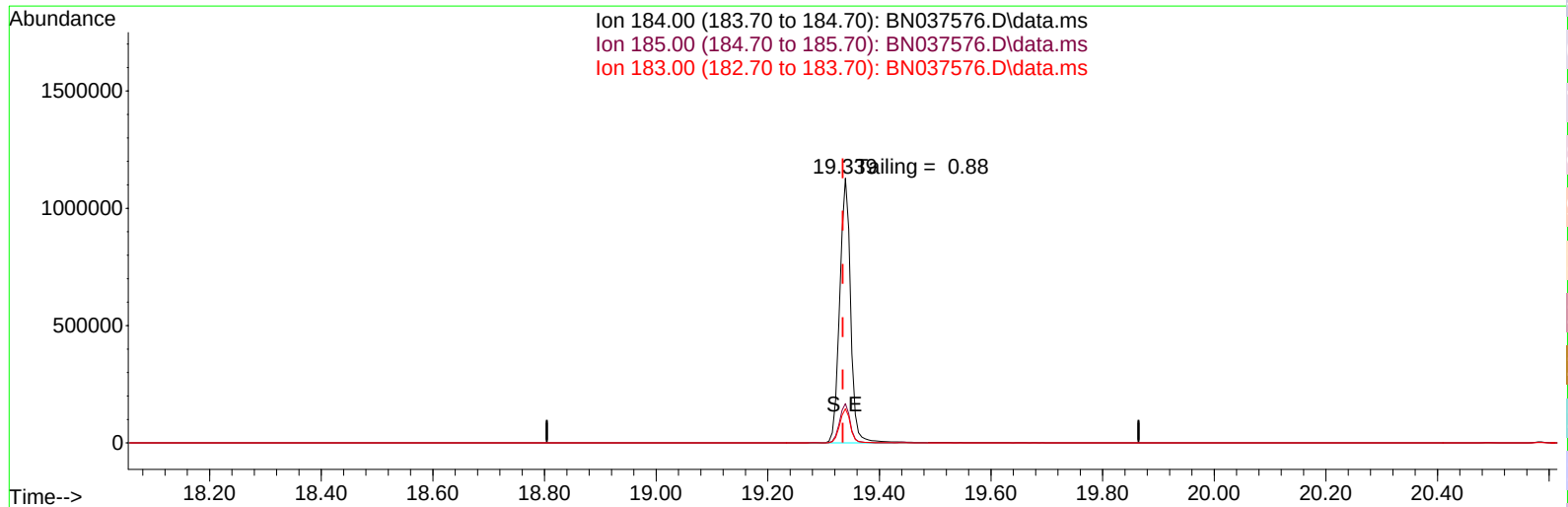
response 357790

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.87
264.00	61.60	61.53
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 13 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037576.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 1542567

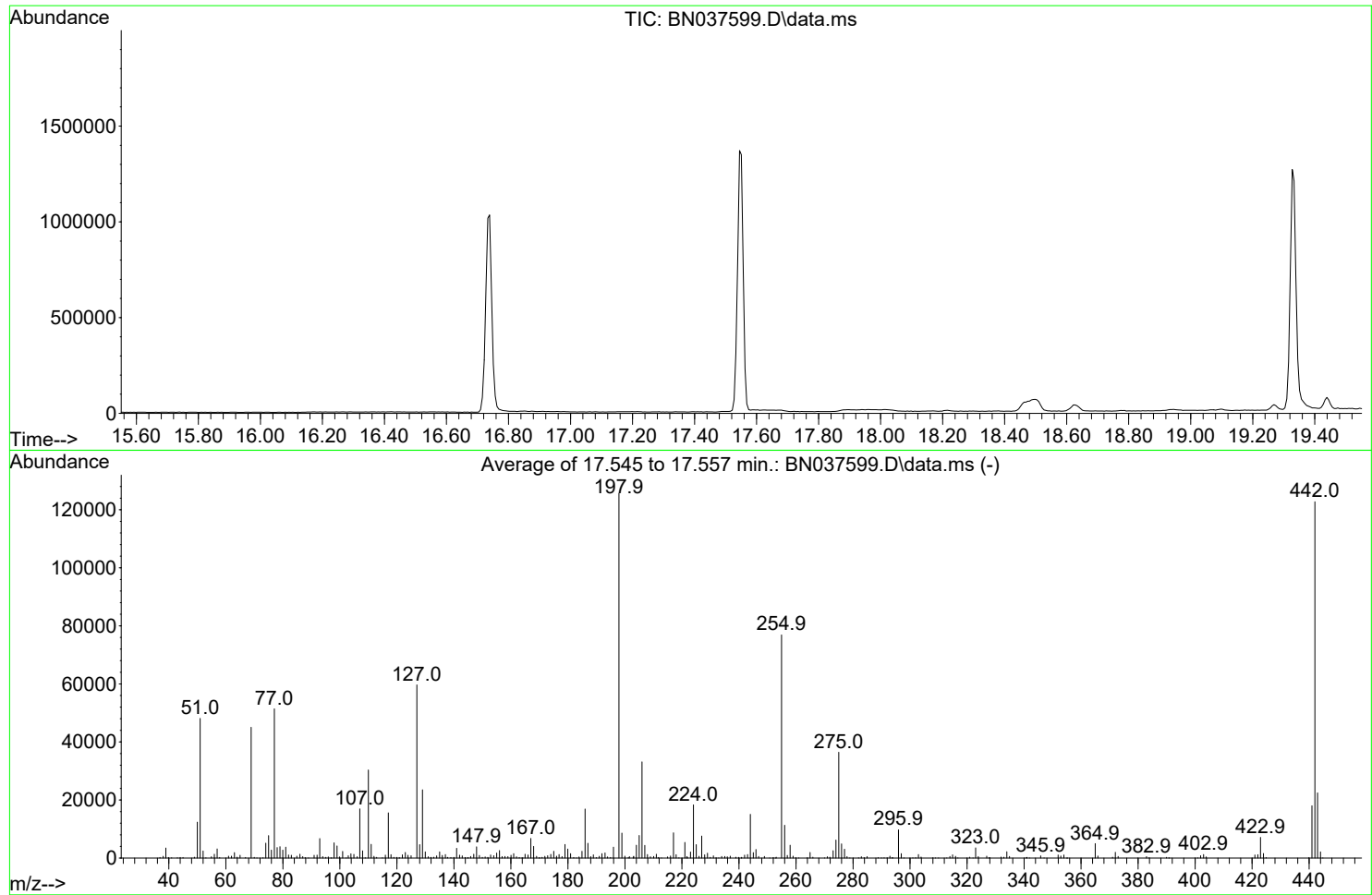
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.86
183.00	13.20	12.90
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037599.D
Acq On : 19 Aug 2025 10:00
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-BN081225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 13 05:00:58 2025



AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	45078	PASS
70	69	0.00	2	0.5	240	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	125645	PASS
199	198	5	9	6.9	8618	PASS
365	198	1	100	4.0	4986	PASS
441	443	0.01	150	80.4	18037	PASS
442	442	100	100	100.0	122741	PASS
443	442	15	24	18.3	22437	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

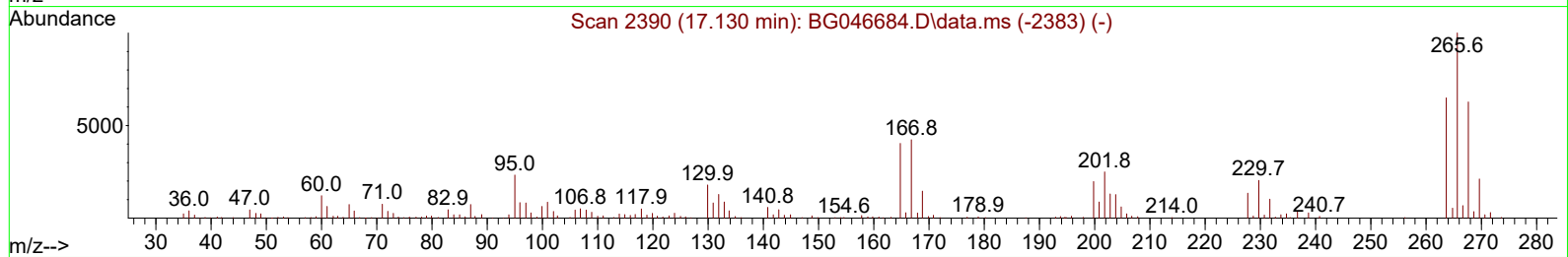
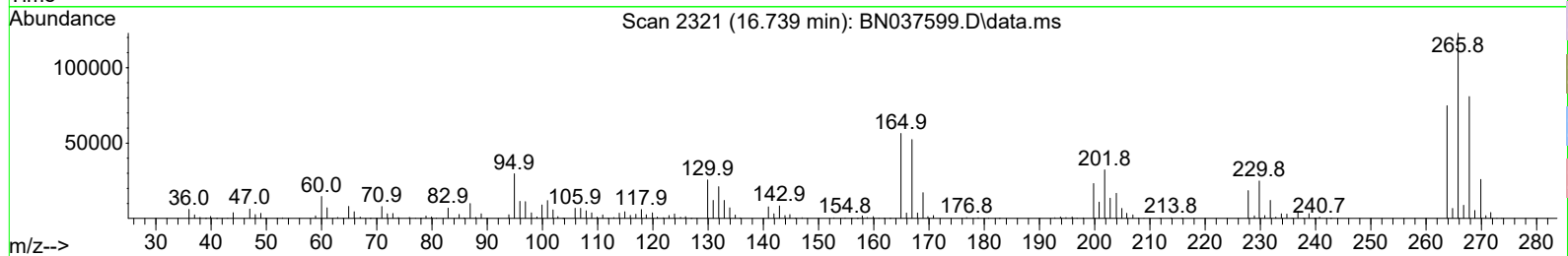
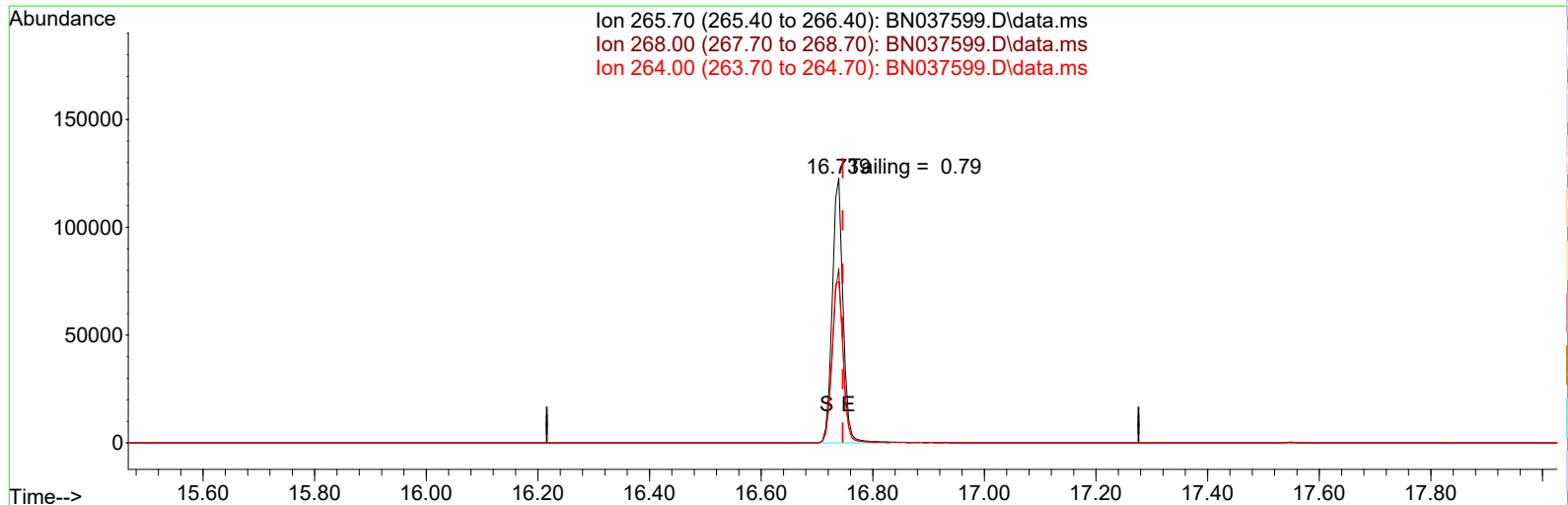
DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/19/2025	BNA_N	<u>BN037599.D</u>
Compound Name	Response	Retention Time
DDT	413417	20.574
DDD	3425	20.133
DDE	498	19.627
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
3923	417340	0.94

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037599.D
Acq On : 19 Aug 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 06:58:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037599.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.007) 26205.47 ng

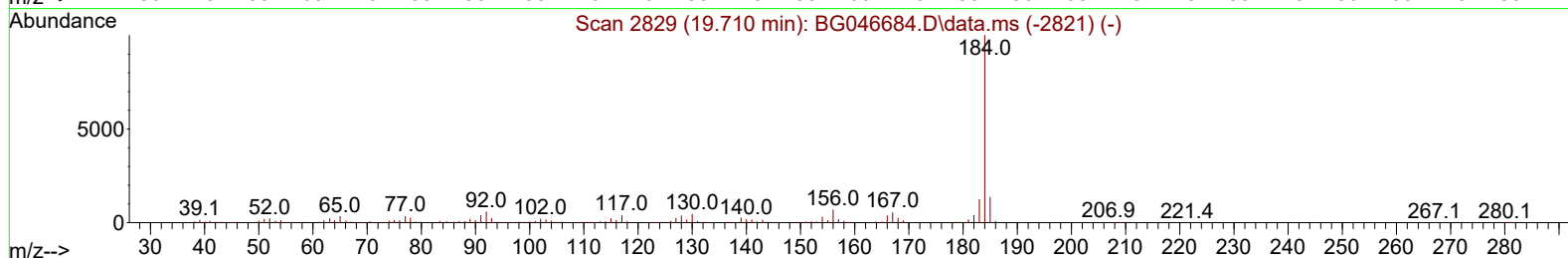
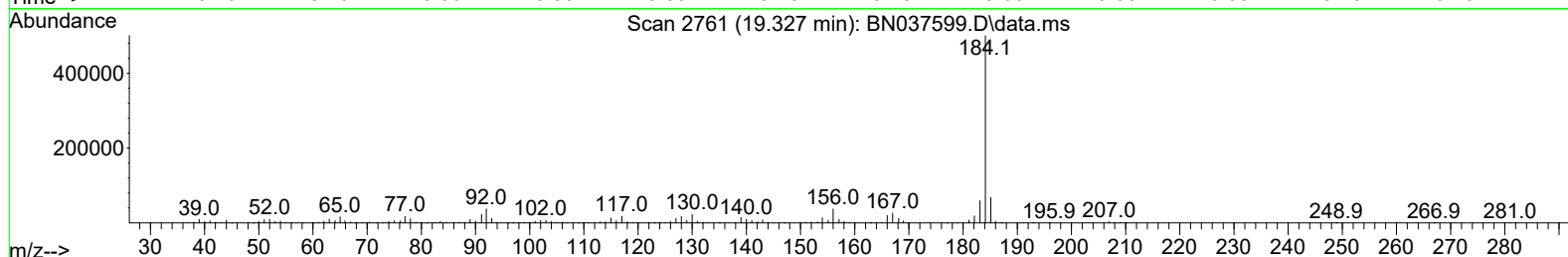
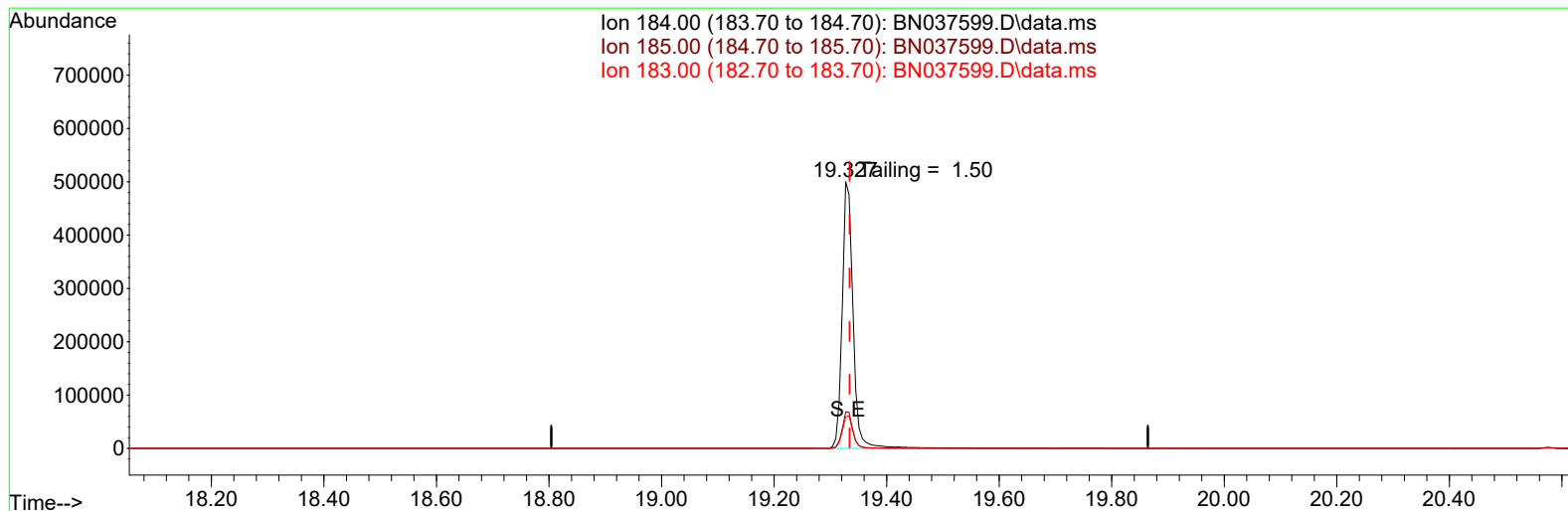
response 166374

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	65.84
264.00	61.60	60.88
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037599.D
Acq On : 19 Aug 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 06:58:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037599.D\data.ms

(77) Benzidine

19.327min (-0.007) 0.00 ng

response 670806

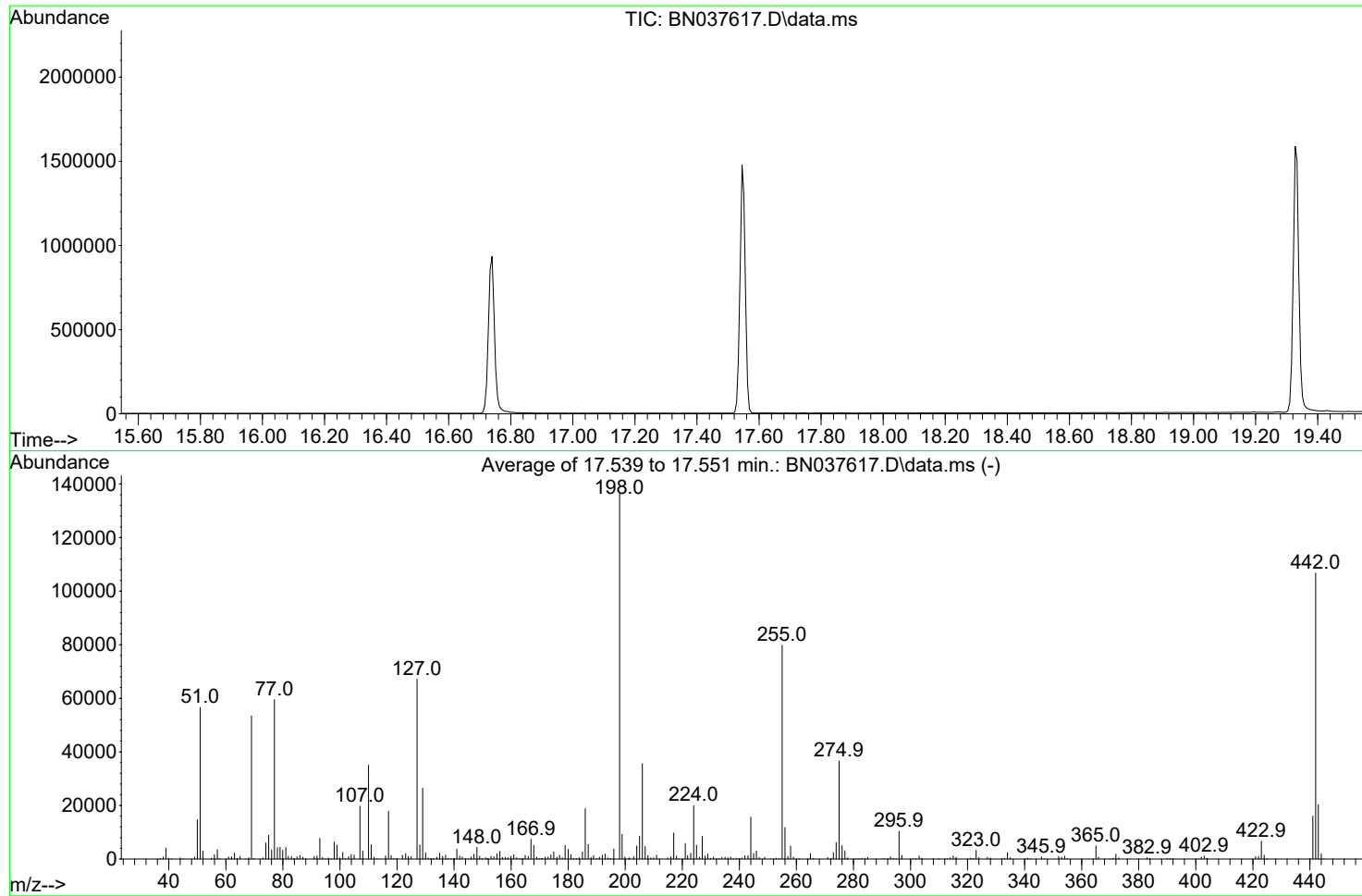
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.65
183.00	13.20	11.83
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037617.D
Acq On : 20 Aug 2025 03:35
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-BN081225.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 13 05:00:58 2025



AutoFind: Scans 2457, 2458, 2459; Background Corrected with Scan 2451

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.9	485	PASS
69	69	100	100	100.0	53448	PASS
70	69	0.00	2	0.6	308	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	136293	PASS
199	198	5	9	6.8	9235	PASS
365	198	1	100	3.6	4939	PASS
441	443	0.01	150	79.0	16038	PASS
442	442	100	100	100.0	106744	PASS
443	442	15	24	19.0	20305	PASS

Instrument :
BNA_N
ClientSampleId :
DFTPP

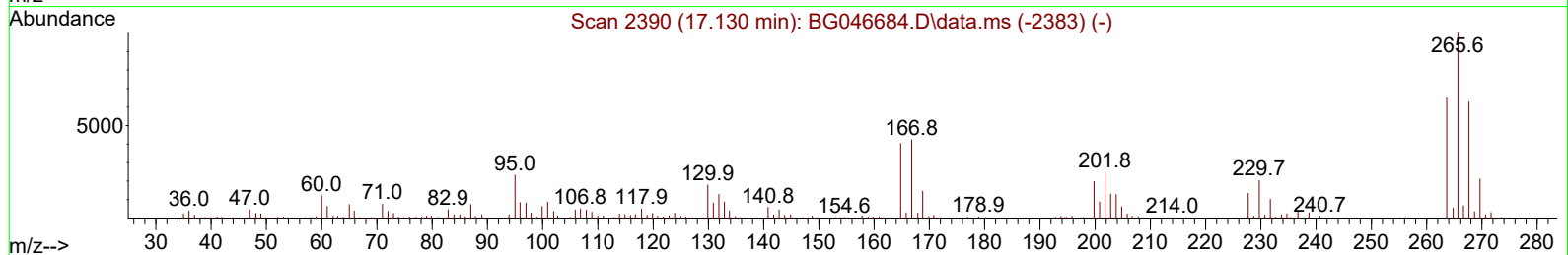
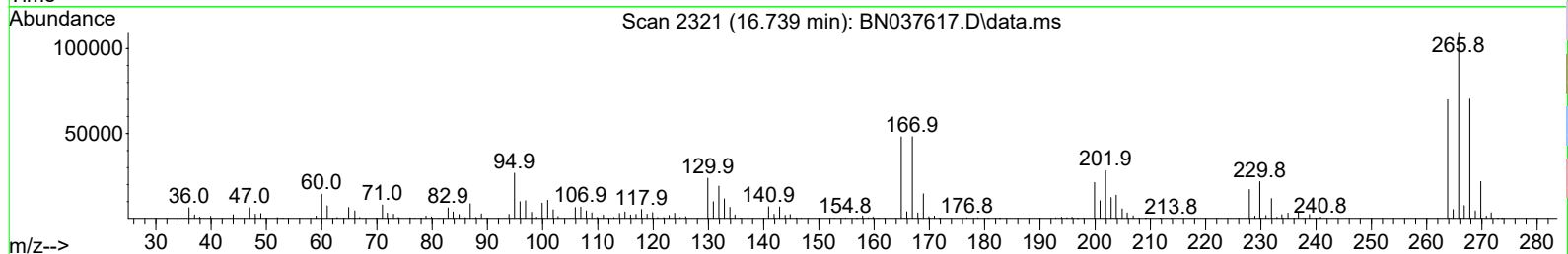
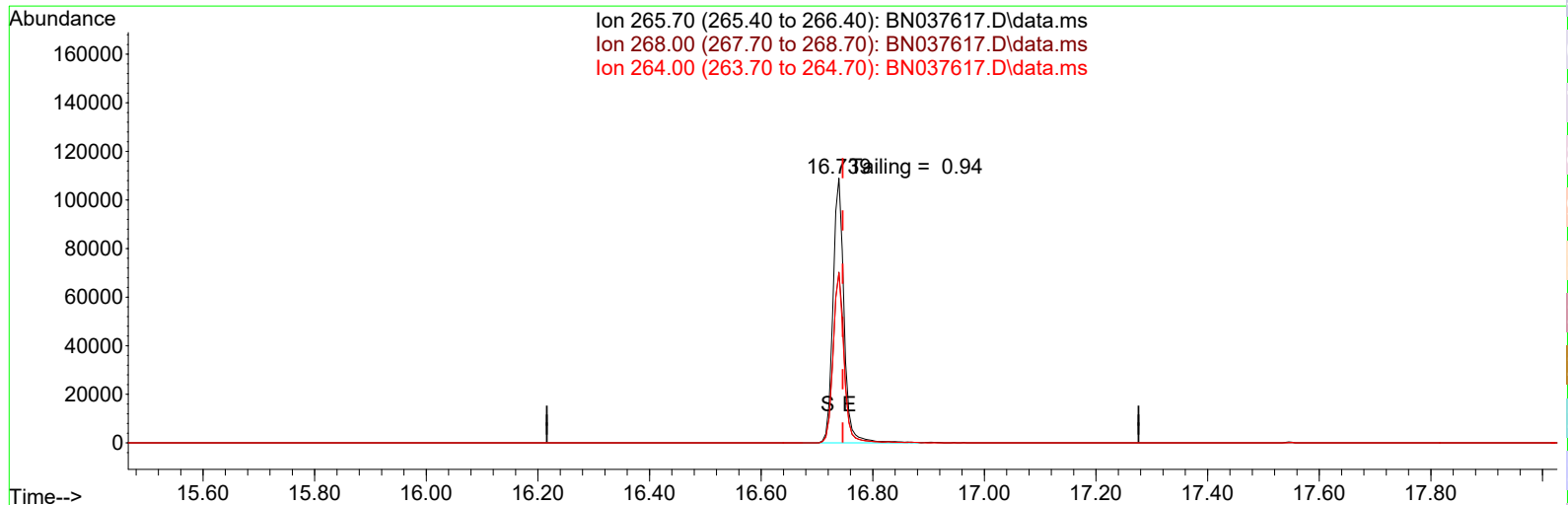
DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/19/2025	BNA_N	<u>BN037617.D</u>
Compound Name	Response	Retention Time
DDT	466043	20.575
DDD	8008	20.133
DDE	521	19.628
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8529	474572	1.80

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037617.D
Acq On : 20 Aug 2025 03:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 07:01:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037617.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.006) 24577.65 ng

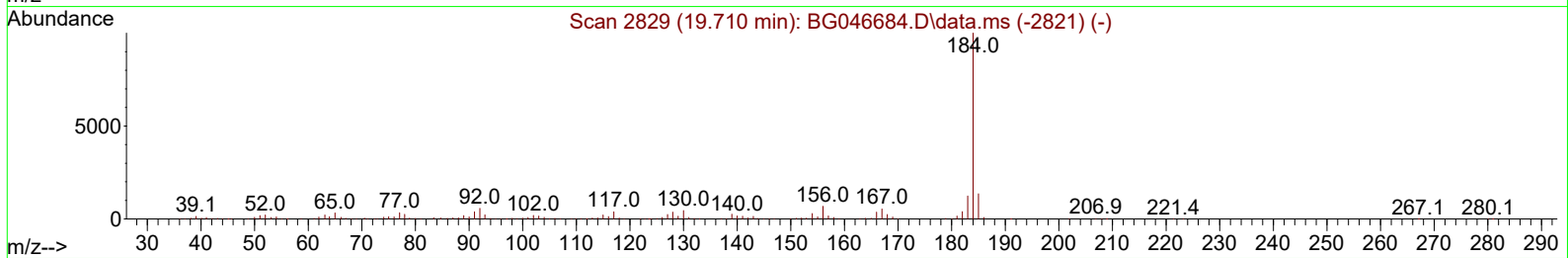
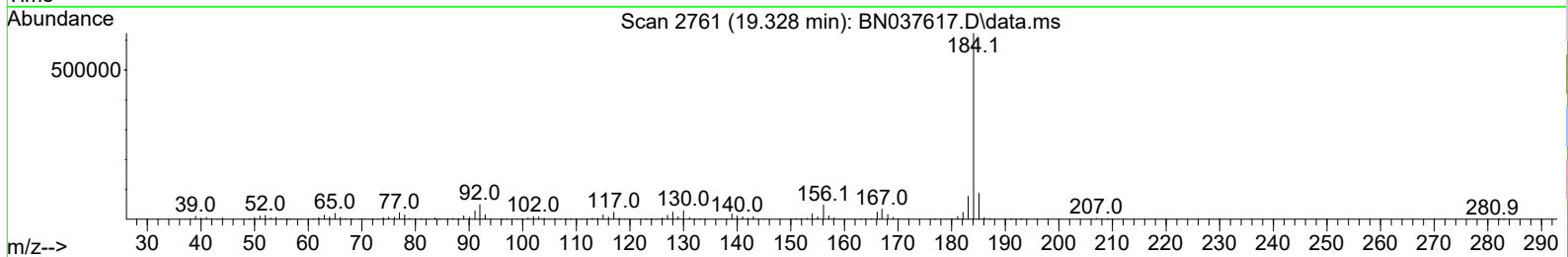
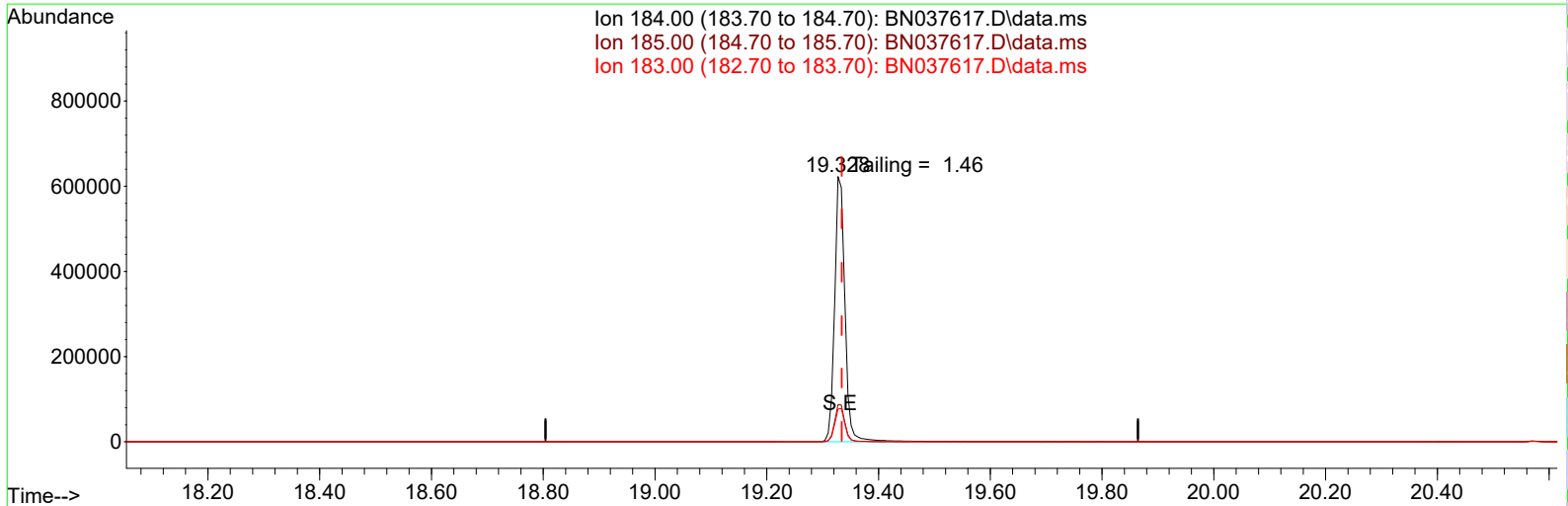
response 150060

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.52
264.00	61.60	64.16
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037617.D
Acq On : 20 Aug 2025 03:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 20 07:01:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037617.D\data.ms

(77) Benzidine

19.328min (-0.006) 0.00 ng

response 801660

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.02
183.00	13.20	12.34
0.00	0.00	0.00

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB169286BL		SDG No.:	Q2881
Lab Sample ID:	PB169286BL		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
BN037619.D	1	08/18/25 08:41	08/20/25 04:50	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2320	7.71				
1146-65-2	Naphthalene-d8	5230	10.498				
15067-26-2	Acenaphthene-d10	2340	14.345				
1517-22-2	Phenanthrene-d10	4470	17.087				
1719-03-5	Chrysene-d12	3730	21.268				
1520-96-3	Perylene-d12	3550	23.499				

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\BN081925\
Data File : BN037619.D
Acq On : 20 Aug 2025 04:50
Operator : RC/JU
Sample : PB169286BL
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169286BL

Quant Time: Aug 20 06:13:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2323	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5229	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2344	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4466	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3733	0.400	ng	# 0.00
35) Perylene-d12	23.499	264	3552	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1799	0.342	ng	0.00
5) Phenol-d6	6.880	99	1860	0.293	ng	0.00
8) Nitrobenzene-d5	8.854	82	1323	0.359	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	2298	0.323	ng	0.00
14) 2,4,6-Tribromophenol	15.845	330	240	0.234	ng	0.01
15) 2-Fluorobiphenyl	12.968	172	4692	0.346	ng	0.00
27) Fluoranthene-d10	19.118	212	3886	0.331	ng	0.00
31) Terphenyl-d14	19.717	244	2840	0.370	ng	0.00

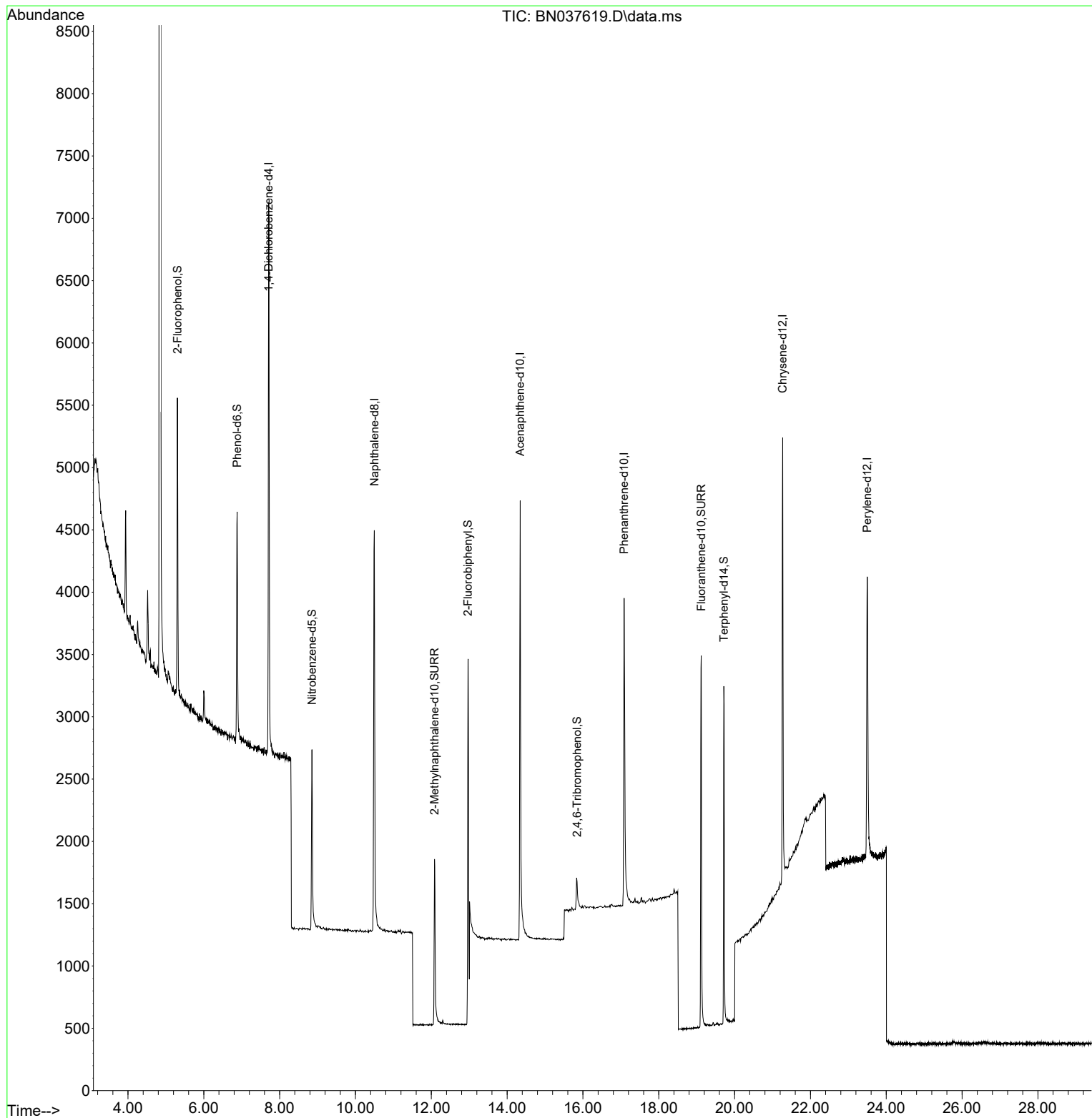
Target Compounds	Qvalue

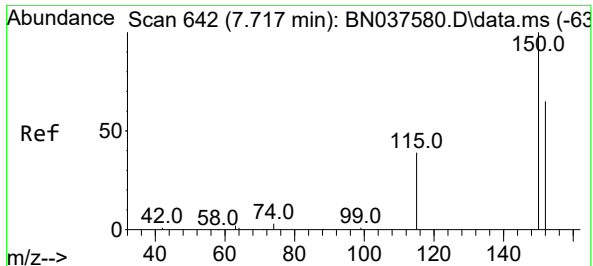
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037619.D
Acq On : 20 Aug 2025 04:50
Operator : RC/JU
Sample : PB169286BL
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169286BL

Quant Time: Aug 20 06:13:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

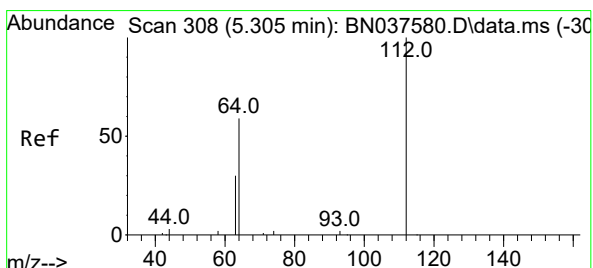
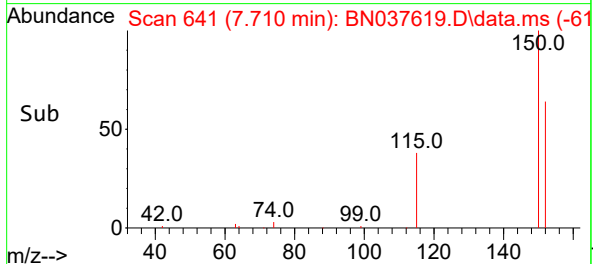
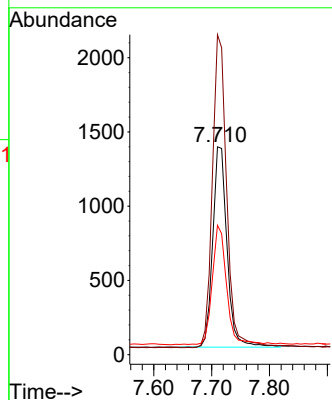
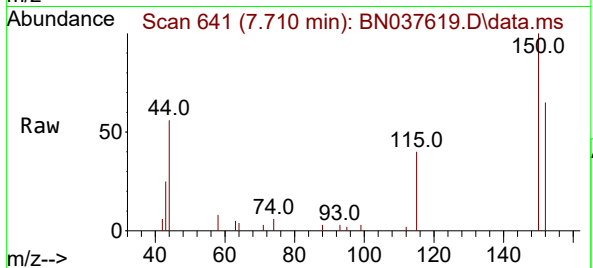




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 642
Delta R.T. -0.007 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

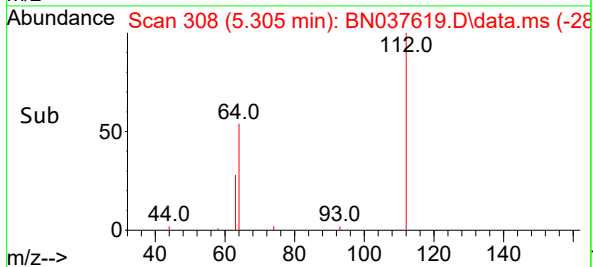
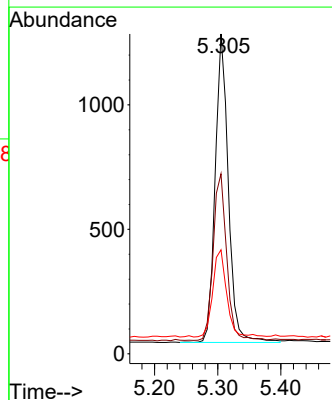
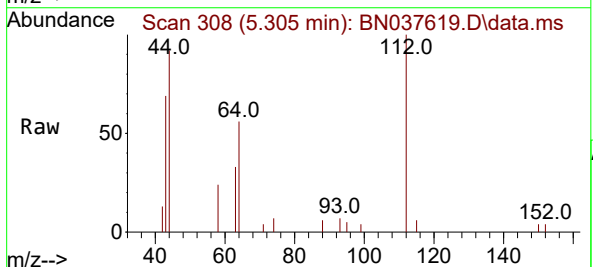
Instrument :
BNA_N
ClientSampleId :
PB169286BL

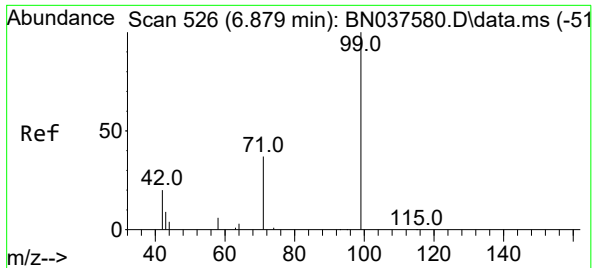
Tgt Ion:152 Resp: 2323
Ion Ratio Lower Upper
152 100
150 153.9 122.2 183.4
115 62.3 49.8 74.6



#4
2-Fluorophenol
Concen: 0.342 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

Tgt Ion:112 Resp: 1799
Ion Ratio Lower Upper
112 100
64 55.3 44.9 67.3
63 30.0 23.4 35.2

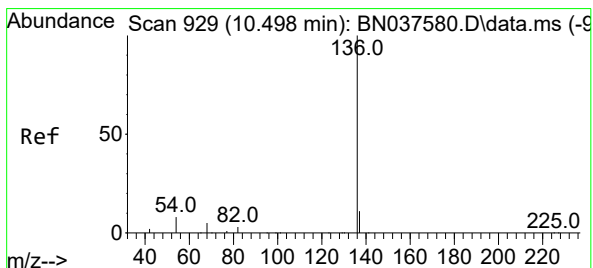
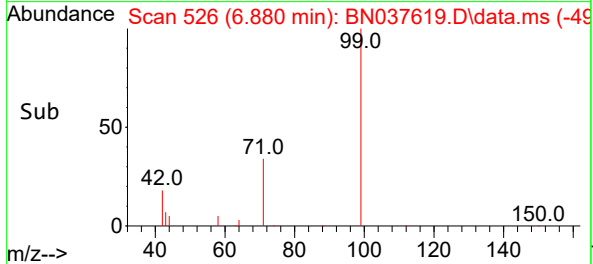
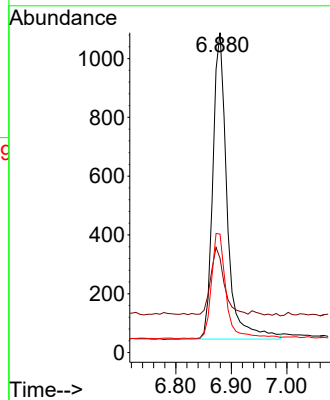
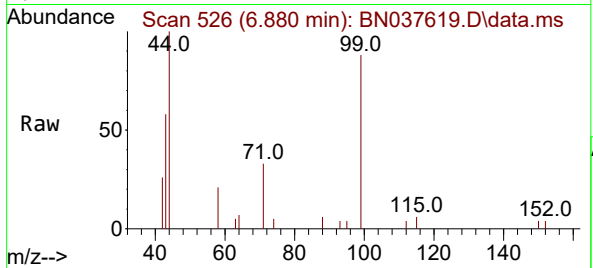




#5
Phenol-d6
Concen: 0.293 ng
RT: 6.880 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

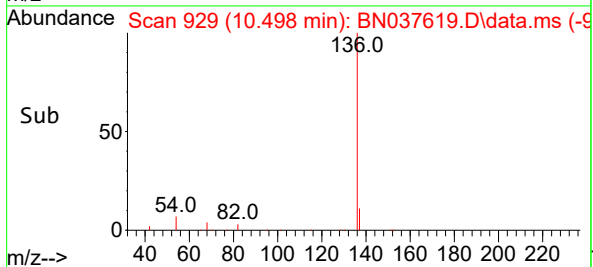
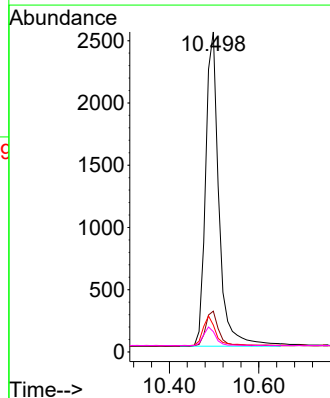
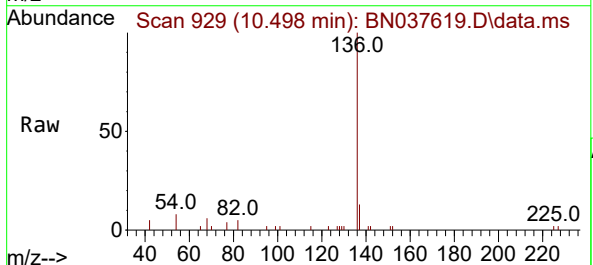
Instrument :
BNA_N
ClientSampleId :
PB169286BL

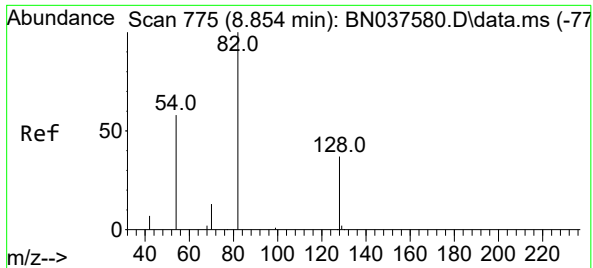
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.8	18.5	27.7
71	35.5	28.6	42.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. 0.000 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.5	14.3
54	8.4	7.3	10.9
68	6.3	5.1	7.7

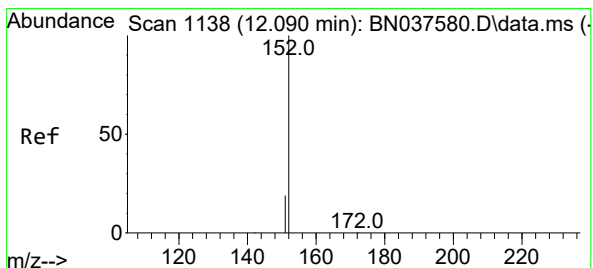
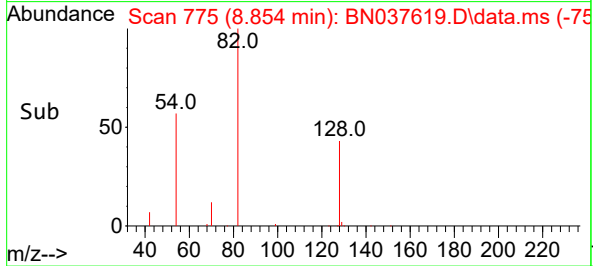
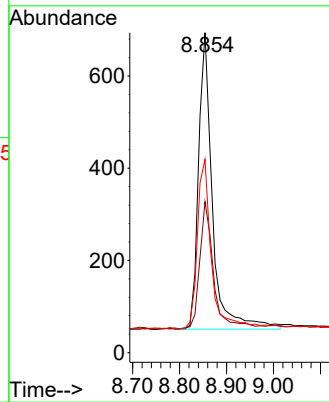
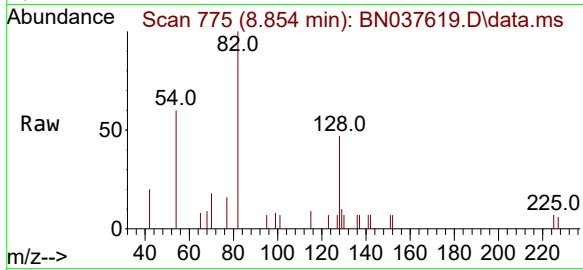




#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.854 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

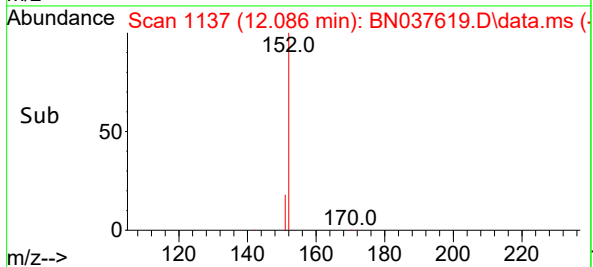
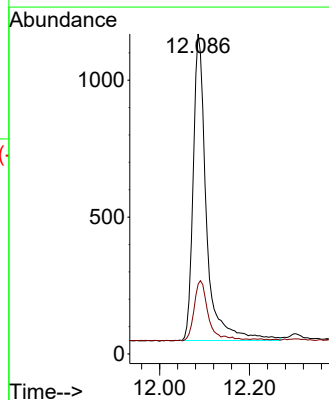
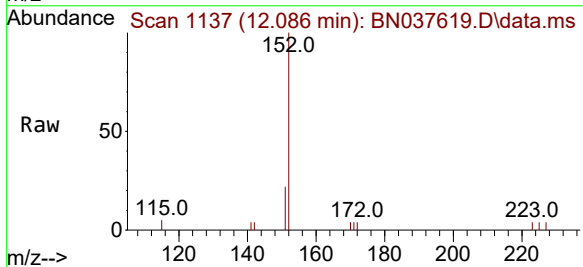
Instrument :
BNA_N
ClientSampleId :
PB169286BL

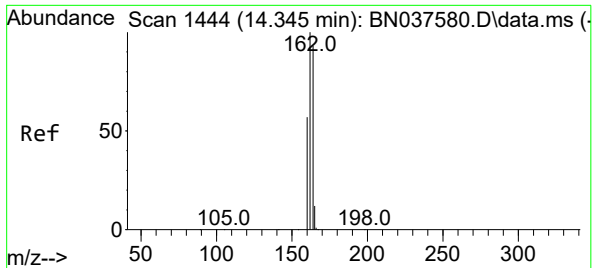
Tgt Ion:	82	Resp:	1323
Ion	Ratio	Lower	Upper
82	100		
128	47.1	32.6	48.8
54	60.4	48.9	73.3



#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

Tgt Ion:	152	Resp:	2298
Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.3	25.9

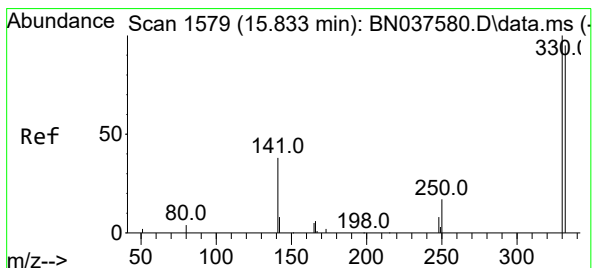
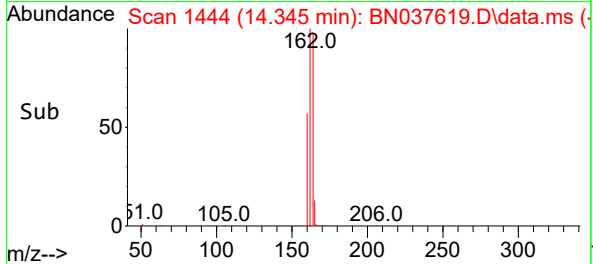
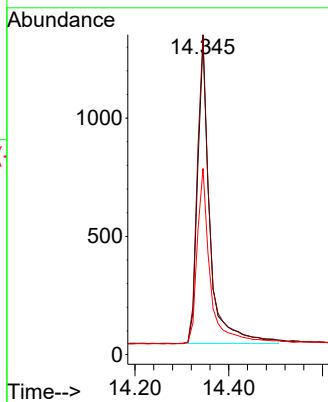
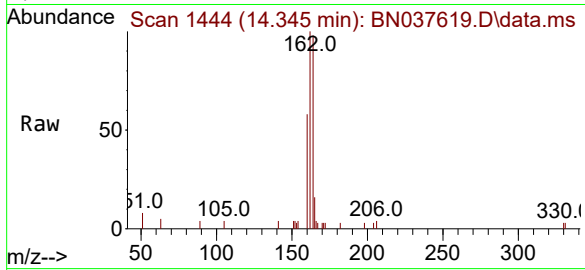




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

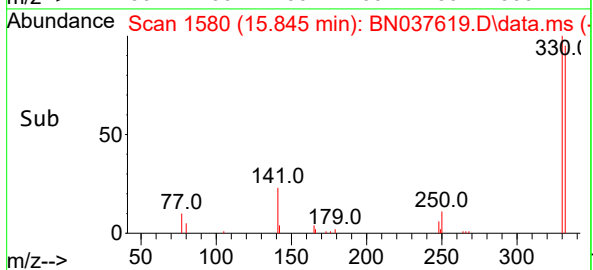
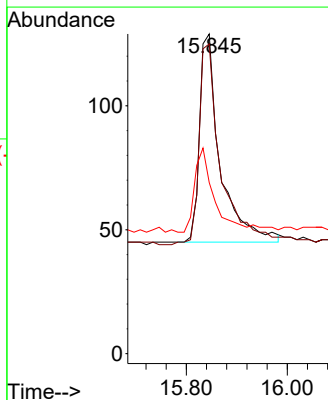
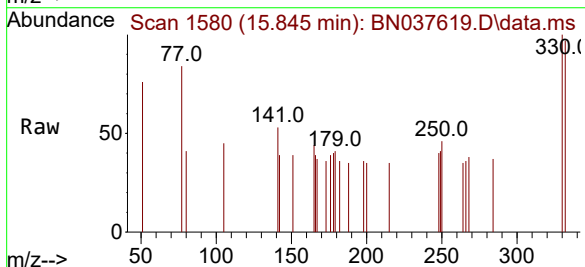
Instrument :
BNA_N
ClientSampleId :
PB169286BL

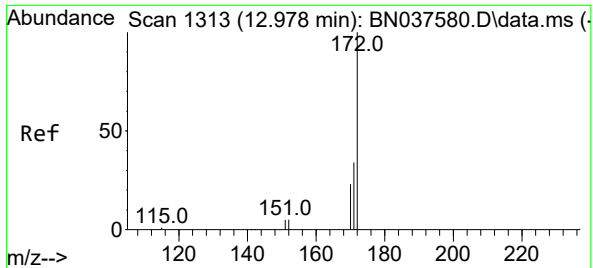
Tgt Ion:164 Resp: 2344
Ion Ratio Lower Upper
164 100
162 102.2 85.5 128.3
160 59.4 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.234 ng
RT: 15.845 min Scan# 1580
Delta R.T. 0.013 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

Tgt Ion:330 Resp: 240
Ion Ratio Lower Upper
330 100
332 101.3 77.4 116.0
141 40.0 30.9 46.3

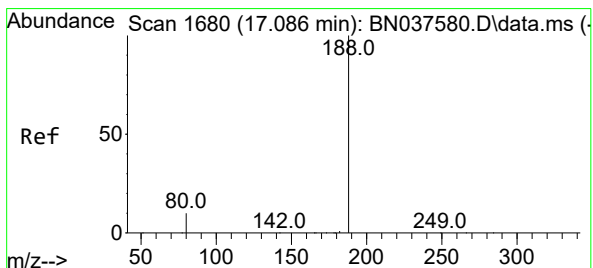
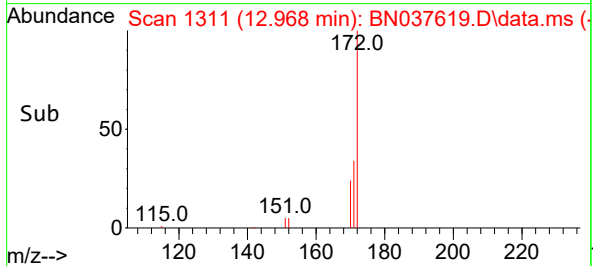
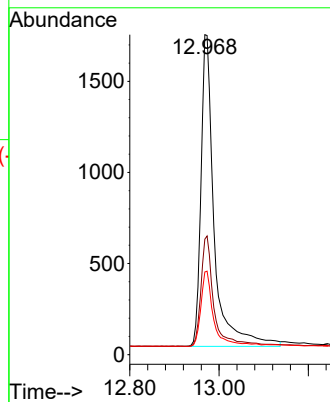
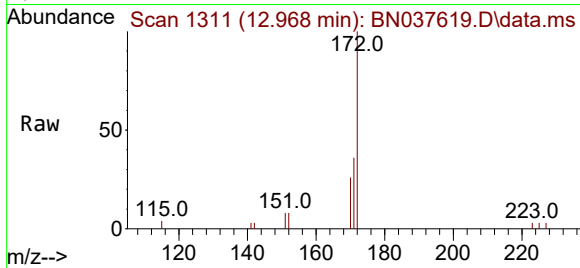




#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

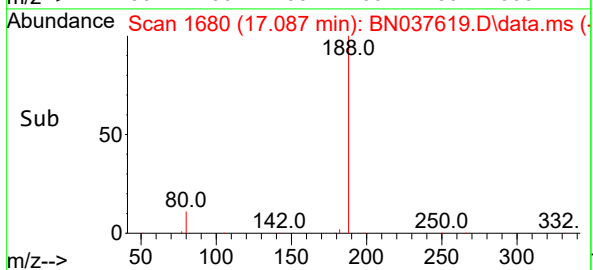
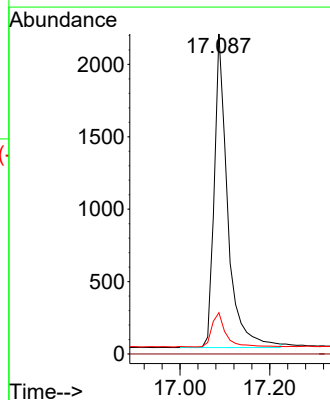
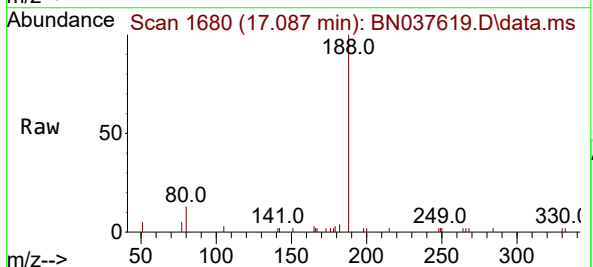
Instrument :
BNA_N
ClientSampleId :
PB169286BL

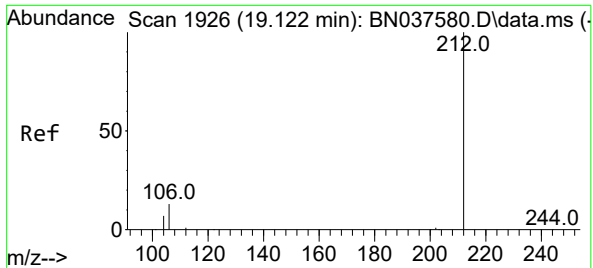
Tgt Ion:	172	Resp:	4692
Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.2	42.4
170	25.9	19.2	28.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

Tgt Ion:	188	Resp:	4466
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.9	9.1	13.7





#27

Fluoranthene-d10

Concen: 0.331 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.004 min

Lab File: BN037619.D

Acq: 20 Aug 2025 04:50

Instrument :

BNA_N

ClientSampleId :

PB169286BL

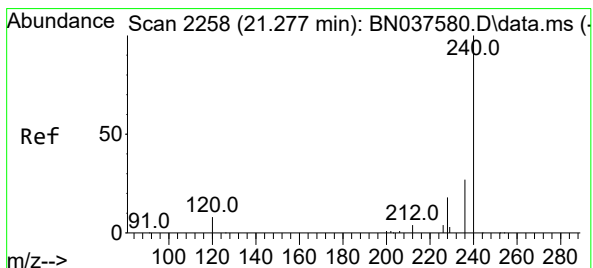
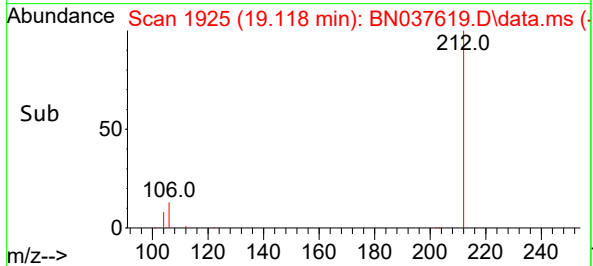
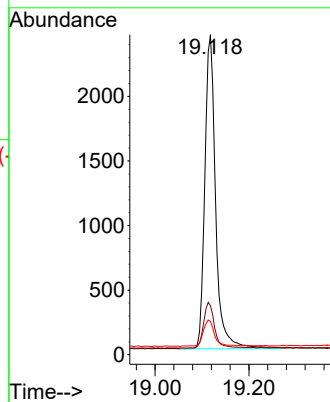
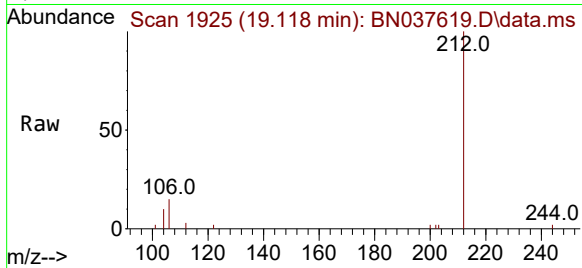
Tgt Ion:212 Resp: 3886

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 9.3 6.6 9.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 2257

Delta R.T. -0.009 min

Lab File: BN037619.D

Acq: 20 Aug 2025 04:50

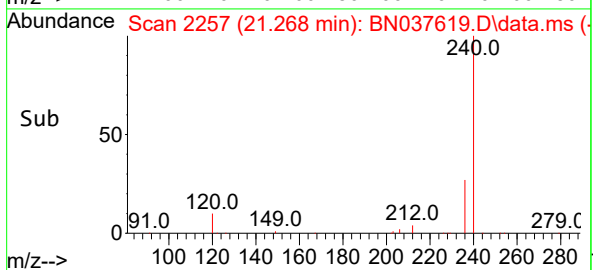
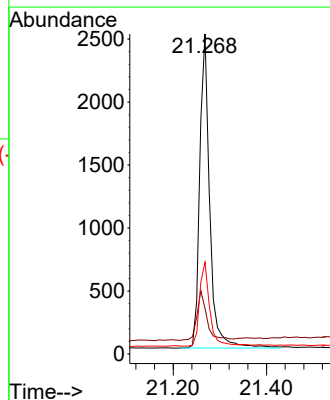
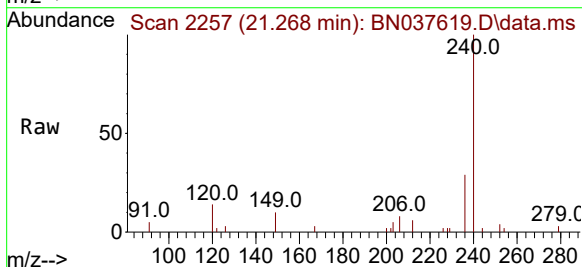
Tgt Ion:240 Resp: 3733

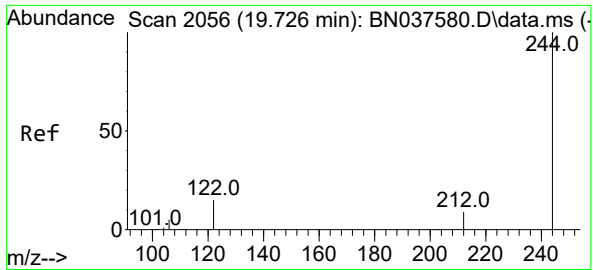
Ion Ratio Lower Upper

240 100

120 14.2 8.9 13.3#

236 28.7 22.6 33.8

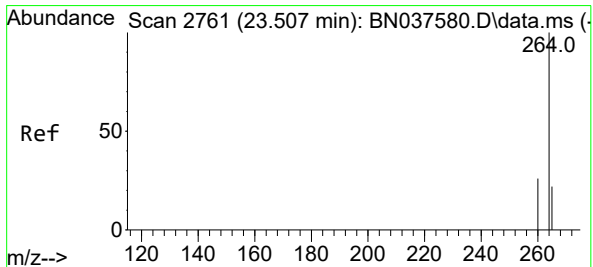
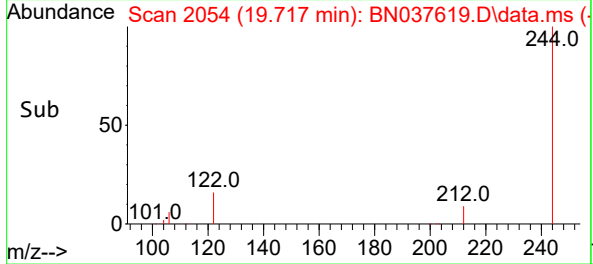
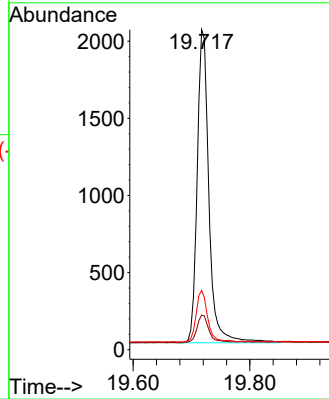
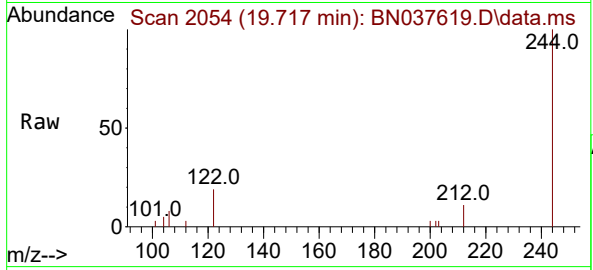




#31
Terphenyl-d14
Concen: 0.370 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

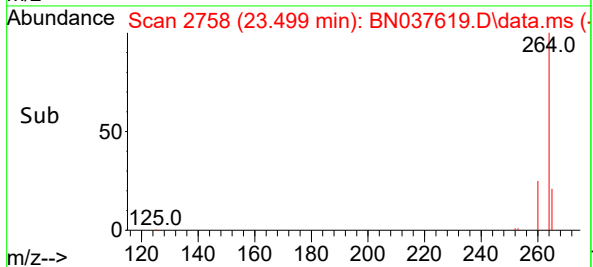
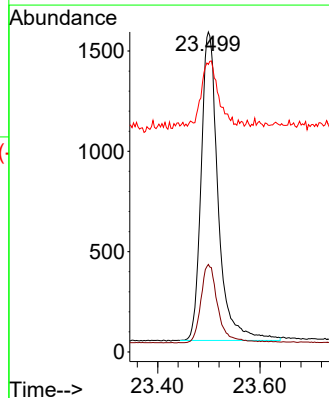
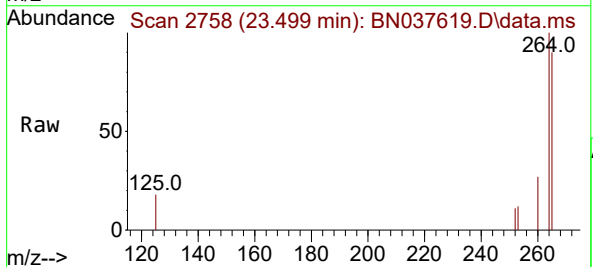
Instrument :
BNA_N
ClientSampleId :
PB169286BL

Tgt Ion:244 Resp: 2840
Ion Ratio Lower Upper
244 100
212 10.8 8.2 12.2
122 18.5 13.2 19.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 2758
Delta R.T. -0.008 min
Lab File: BN037619.D
Acq: 20 Aug 2025 04:50

Tgt Ion:264 Resp: 3552
Ion Ratio Lower Upper
264 100
260 27.3 21.6 32.4
265 89.8 48.2 72.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169286BS	SDG No.:	Q2881
Lab Sample ID:	PB169286BS	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
BN037630.D	1	08/18/25 08:41	08/20/25 11:25	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		30 - 150		76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.35		58 - 132		88%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2390	7.71				
1146-65-2	Naphthalene-d8	5620	10.487				
15067-26-2	Acenaphthene-d10	2630	14.345				
1517-22-2	Phenanthrene-d10	5040	17.086				
1719-03-5	Chrysene-d12	4180	21.268				
1520-96-3	Perylene-d12	3780	23.502				

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\BN081925\
 Data File : BN037630.D
 Acq On : 20 Aug 2025 11:25
 Operator : RC/JU
 Sample : PB169286BS
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169286BS

Quant Time: Aug 21 04:13:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

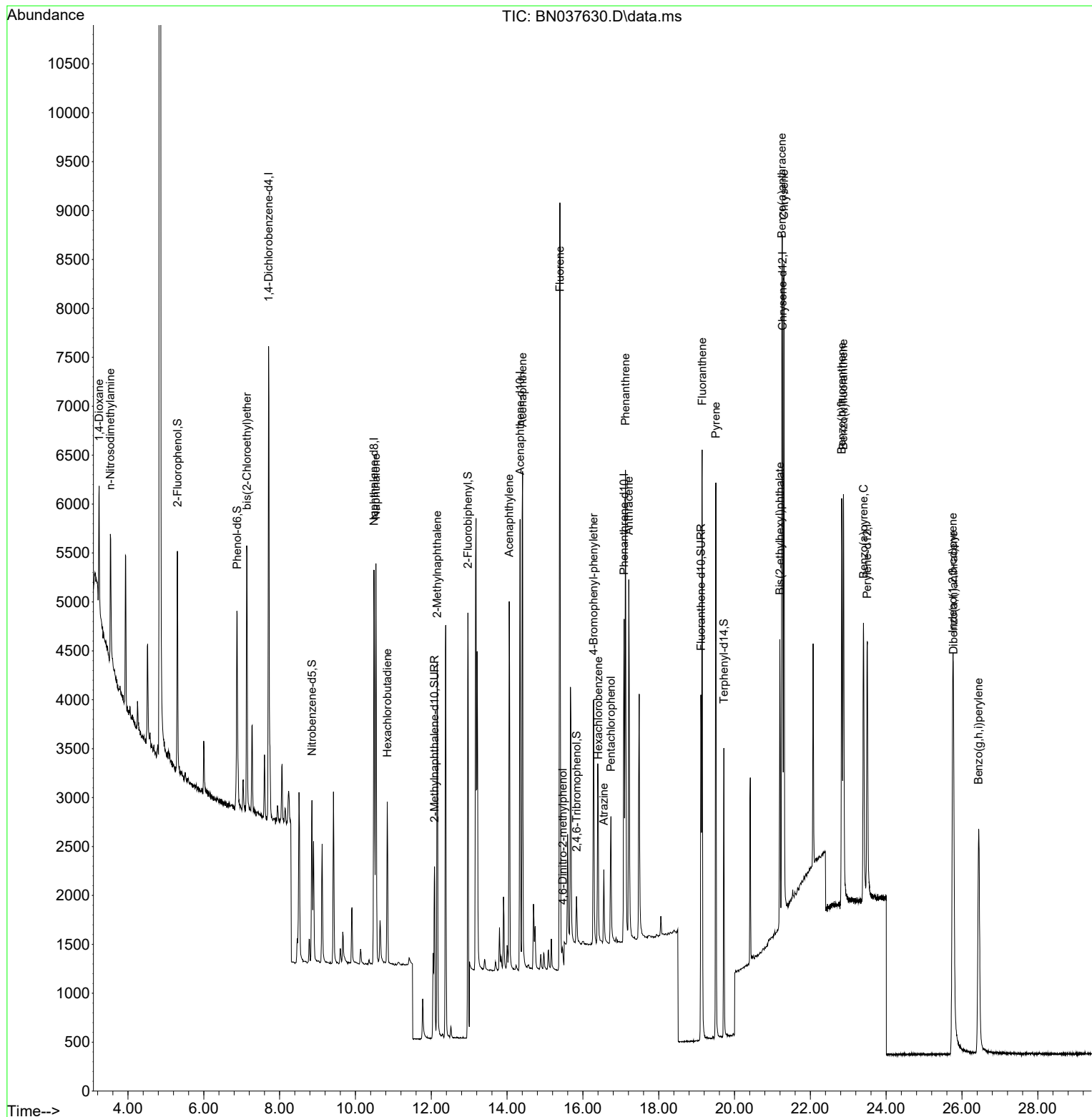
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2389	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	5616	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2629	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5040	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4175	0.400	ng	# 0.00
35) Perylene-d12	23.502	264	3780	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1761	0.325	ng	0.00
5) Phenol-d6	6.879	99	1961	0.301	ng	0.00
8) Nitrobenzene-d5	8.854	82	1380	0.349	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	2508	0.329	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	342	0.297	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	5503	0.362	ng	-0.01
27) Fluoranthene-d10	19.113	212	4038	0.305	ng	0.00
31) Terphenyl-d14	19.717	244	3008	0.350	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	677	0.296	ng	# 78
3) n-Nitrosodimethylamine	3.535	42	966	0.331	ng	95
6) bis(2-Chloroethyl)ether	7.139	93	2041	0.347	ng	96
9) Naphthalene	10.541	128	5264	0.352	ng	99
10) Hexachlorobutadiene	10.840	225	1357	0.371	ng	# 99
12) 2-Methylnaphthalene	12.156	142	2891	0.308	ng	100
16) Acenaphthylene	14.056	152	4394	0.373	ng	100
17) Acenaphthene	14.409	154	2664	0.332	ng	99
18) Fluorene	15.392	166	3473	0.331	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	153	0.348	ng	# 79
21) 4-Bromophenyl-phenylether	16.280	248	1063	0.336	ng	# 82
22) Hexachlorobenzene	16.404	284	1644	0.366	ng	98
23) Atrazine	16.553	200	688	0.384	ng	95
24) Pentachlorophenol	16.739	266	719	0.456	ng	96
25) Phenanthrene	17.124	178	5179	0.338	ng	99
26) Anthracene	17.210	178	4635	0.342	ng	100
28) Fluoranthene	19.146	202	5464	0.310	ng	100
30) Pyrene	19.508	202	5332	0.342	ng	100
32) Benzo(a)anthracene	21.250	228	4944	0.355	ng	98
33) Chrysene	21.304	228	5598	0.360	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	1867	0.324	ng	100
36) Indeno(1,2,3-cd)pyrene	25.756	276	5812	0.365	ng	99
37) Benzo(b)fluoranthene	22.829	252	5325	0.372	ng	97
38) Benzo(k)fluoranthene	22.873	252	5420	0.335	ng	97
39) Benzo(a)pyrene	23.402	252	4490	0.378	ng	95
40) Dibenzo(a,h)anthracene	25.776	278	4445	0.360	ng	100
41) Benzo(g,h,i)perylene	26.440	276	5149	0.395	ng	98

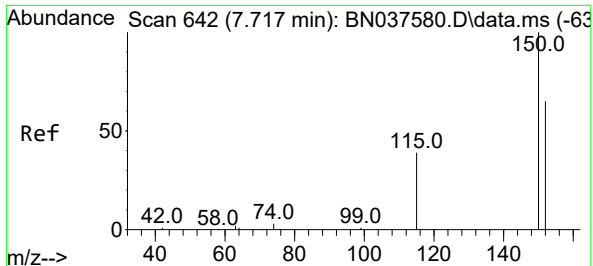
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037630.D
Acq On : 20 Aug 2025 11:25
Operator : RC/JU
Sample : PB169286BS
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169286BS

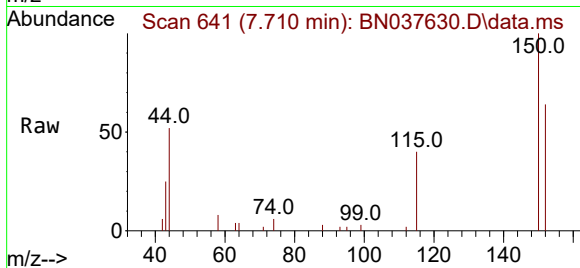
Quant Time: Aug 21 04:13:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



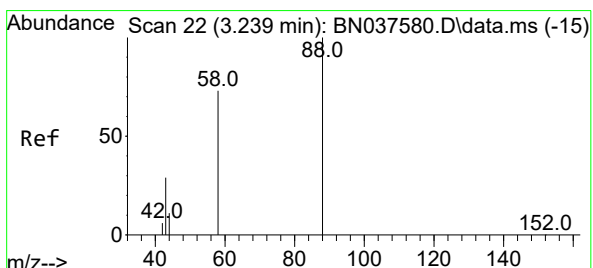
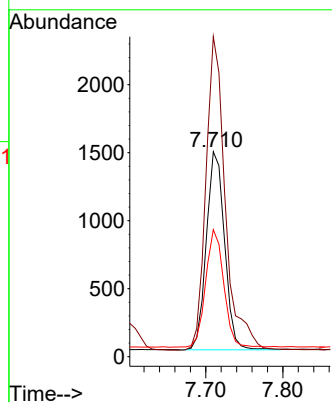
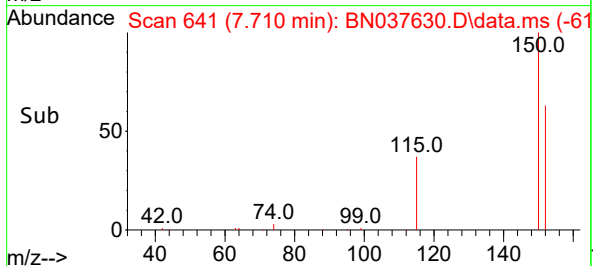


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

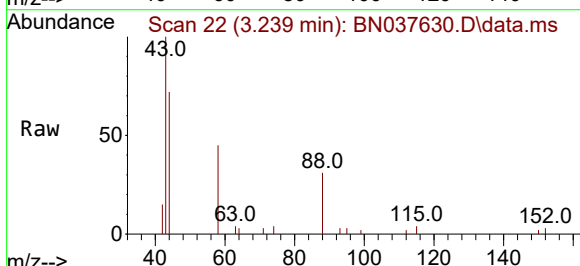
Instrument :
BNA_N
ClientSampleId :
PB169286BS



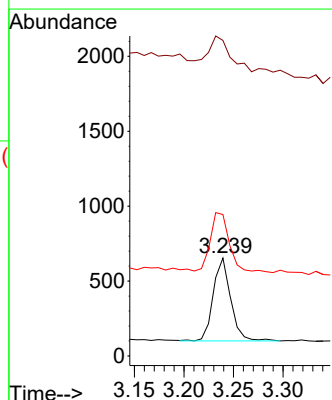
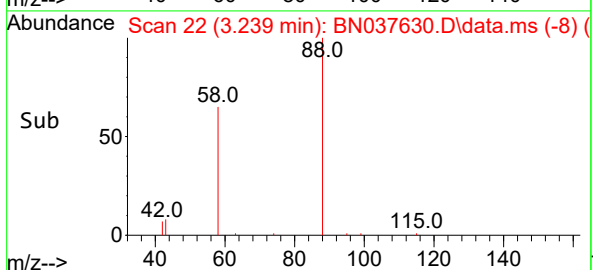
Tgt Ion:152 Resp: 2389
Ion Ratio Lower Upper
152 100
150 156.1 122.2 183.4
115 62.0 49.8 74.6

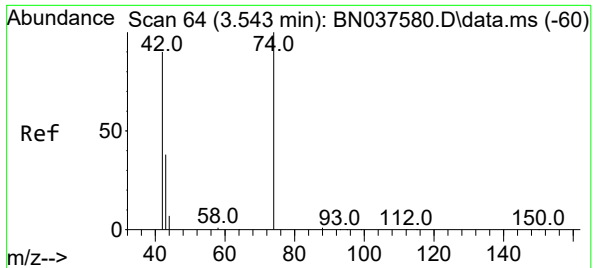


#2
1,4-Dioxane
Concen: 0.296 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25



Tgt Ion: 88 Resp: 677
Ion Ratio Lower Upper
88 100
43 67.7 25.8 38.6#
58 80.4 61.2 91.8

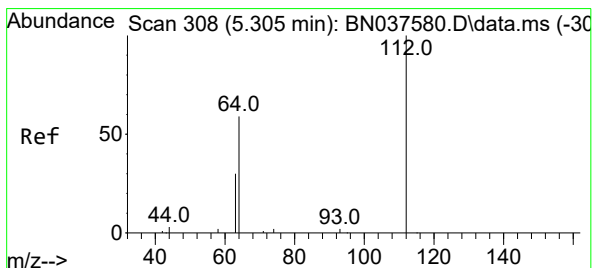
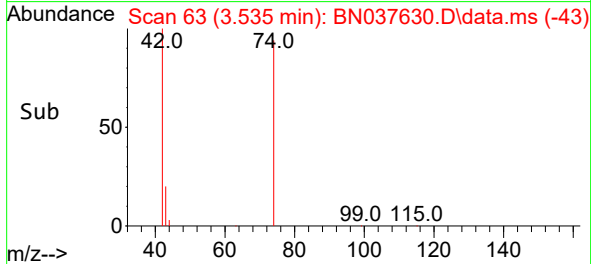
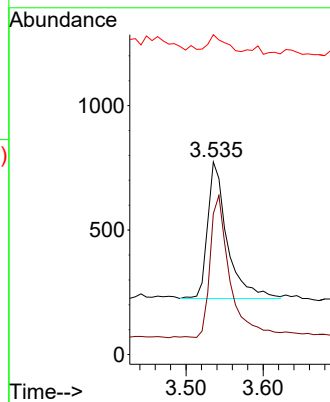
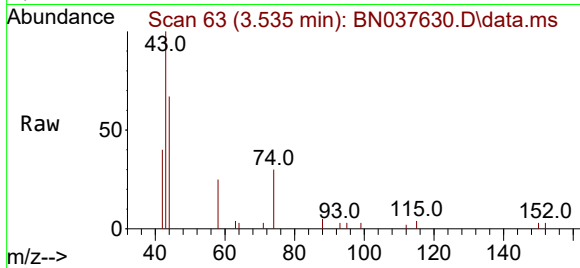




#3
n-Nitrosodimethylamine
Concen: 0.331 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

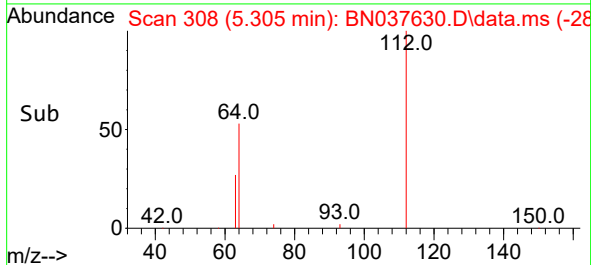
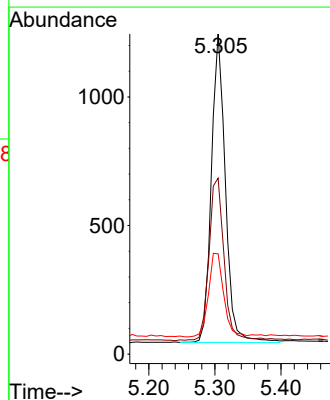
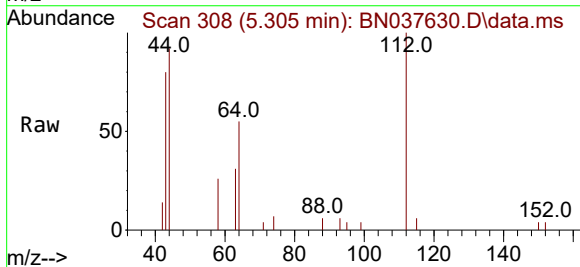
Instrument :
BNA_N
ClientSampleId :
PB169286BS

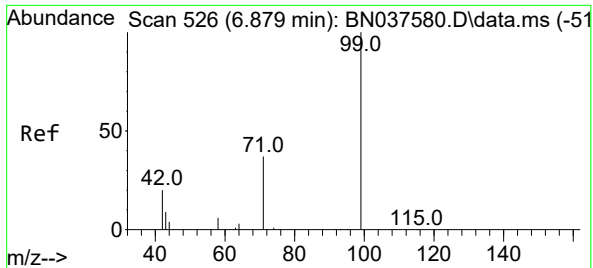
Tgt Ion: 42 Resp: 966
Ion Ratio Lower Upper
42 100
74 107.3 82.0 123.0
44 10.8 7.9 11.9



#4
2-Fluorophenol
Concen: 0.325 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 112 Resp: 1761
Ion Ratio Lower Upper
112 100
64 57.8 44.9 67.3
63 29.2 23.4 35.2

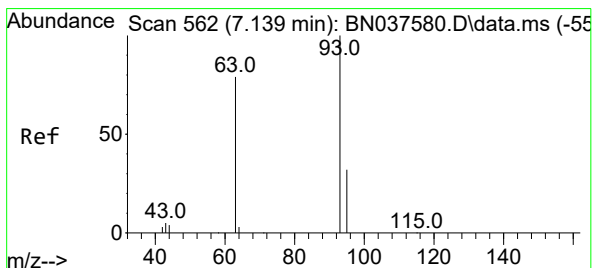
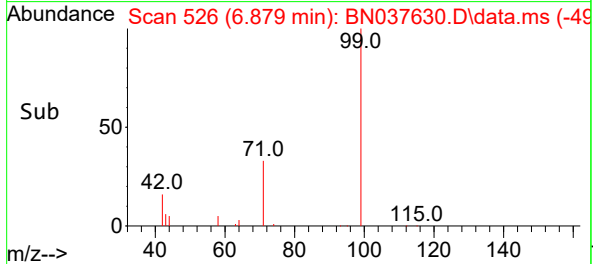
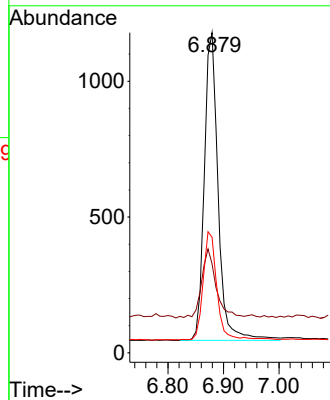
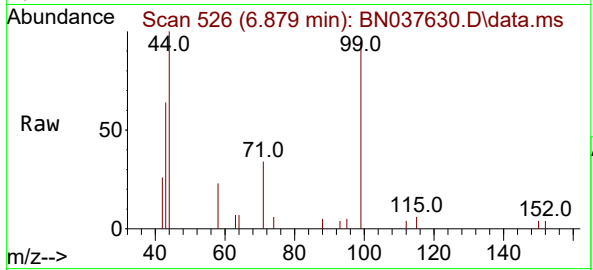




#5
Phenol-d6
Concen: 0.301 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

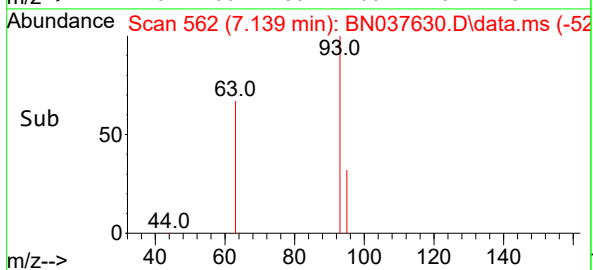
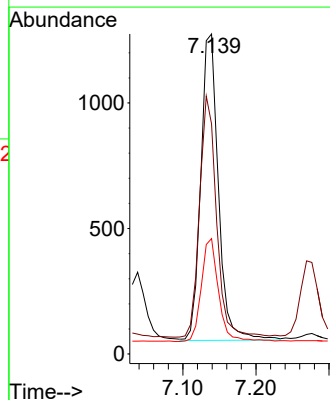
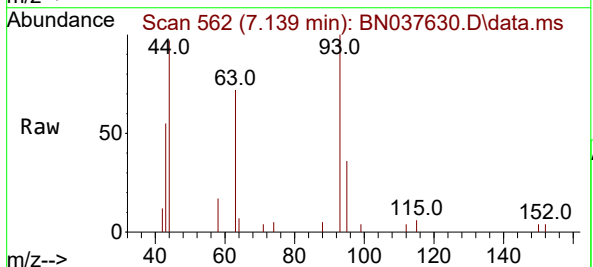
Instrument :
BNA_N
ClientSampleId :
PB169286BS

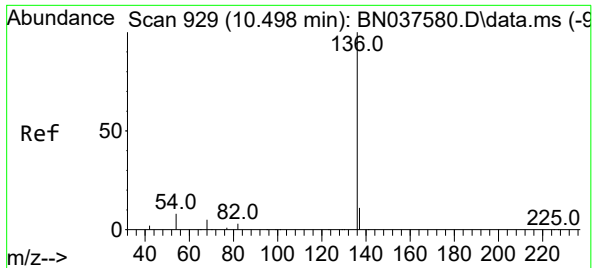
Tgt Ion: 99 Resp: 1961
Ion Ratio Lower Upper
99 100
42 23.7 18.5 27.7
71 34.9 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.347 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion: 93 Resp: 2041
Ion Ratio Lower Upper
93 100
63 75.7 58.0 87.0
95 32.9 24.9 37.3

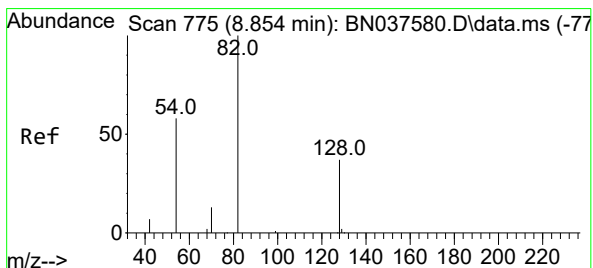
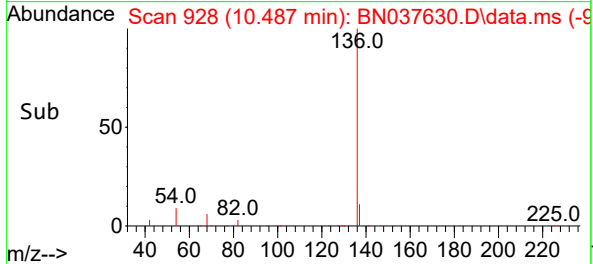
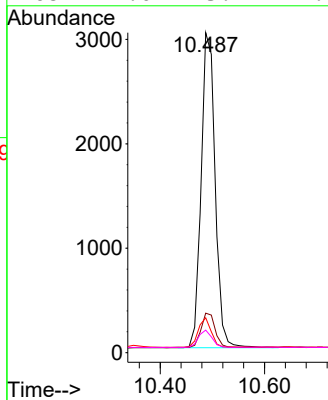
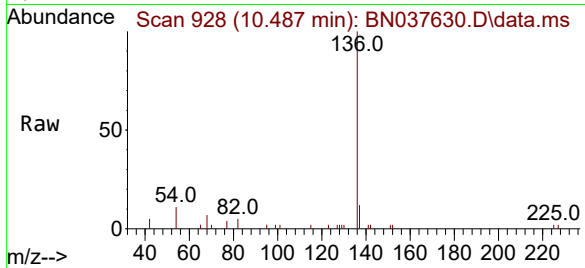




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

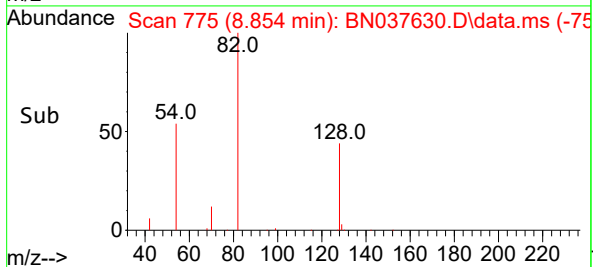
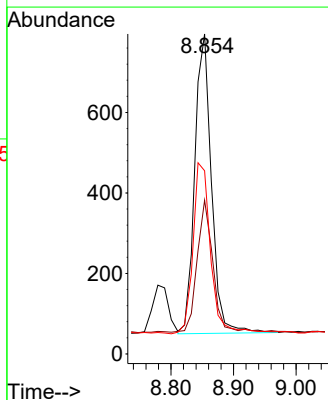
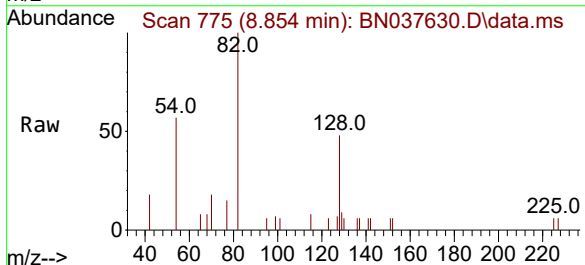
Instrument :
BNA_N
ClientSampleId :
PB169286BS

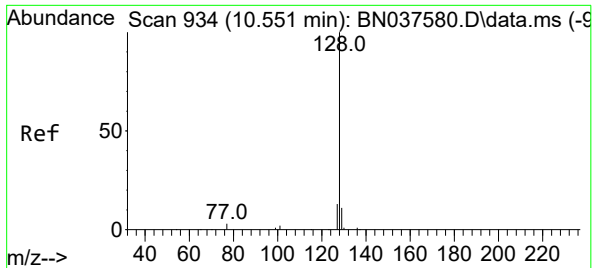
Tgt Ion:	136	Resp:	5616
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.5	14.3
54	10.9	7.3	10.9
68	7.0	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.349 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion:	82	Resp:	1380
Ion	Ratio	Lower	Upper
82	100		
128	48.1	32.6	48.8
54	57.2	48.9	73.3

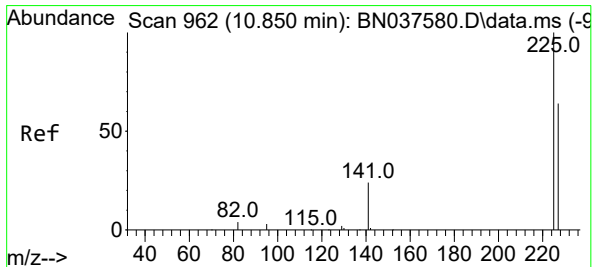
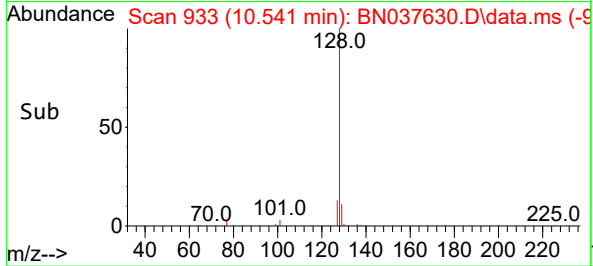
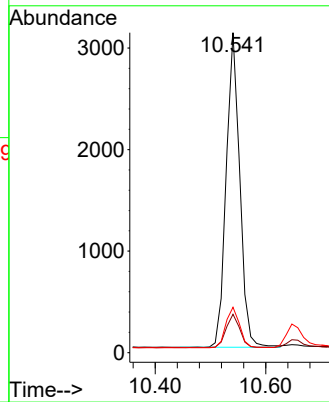
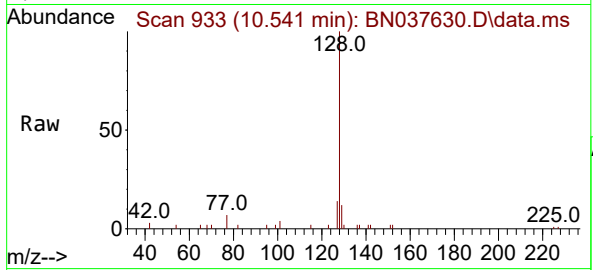




#9
Naphthalene
Concen: 0.352 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

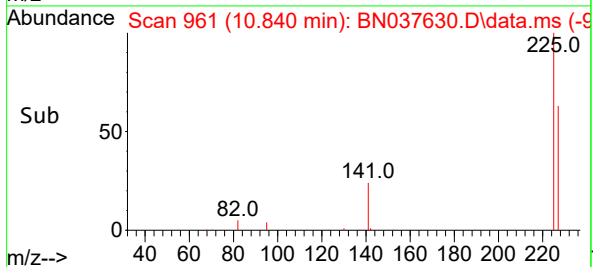
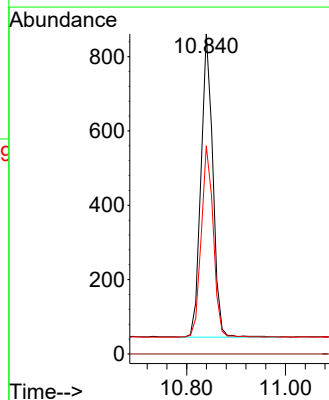
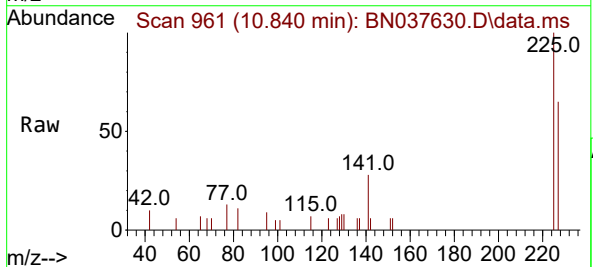
Instrument :
BNA_N
ClientSampleId :
PB169286BS

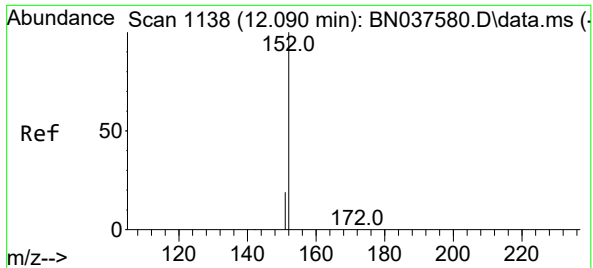
Tgt Ion:	128	Resp:	5264
Ion	Ratio	Lower	Upper
128	100		
129	12.0	9.8	14.6
127	14.2	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.371 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion:	225	Resp:	1357
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.8	76.2

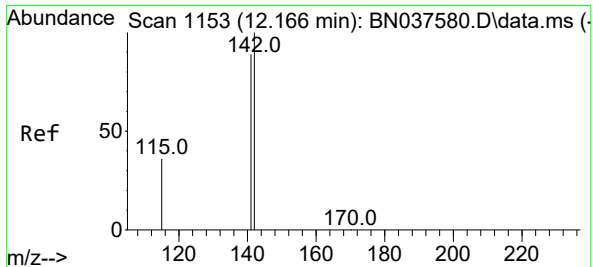
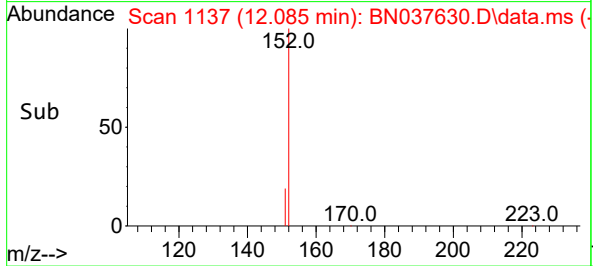
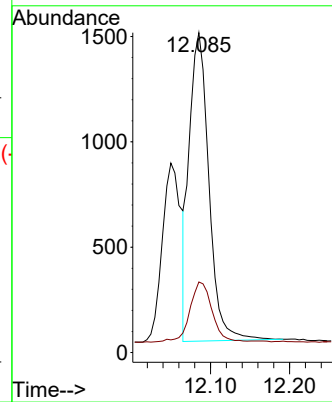
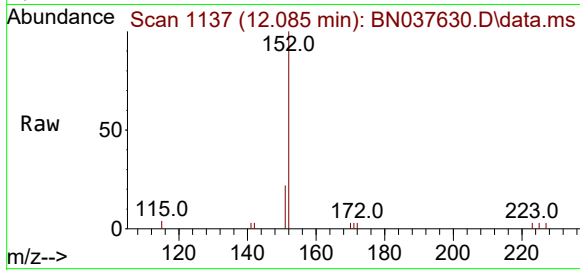




#11
2-Methylnaphthalene-d10
Concen: 0.329 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

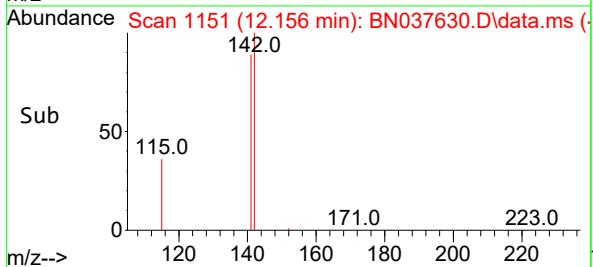
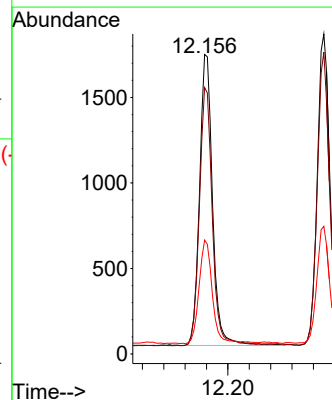
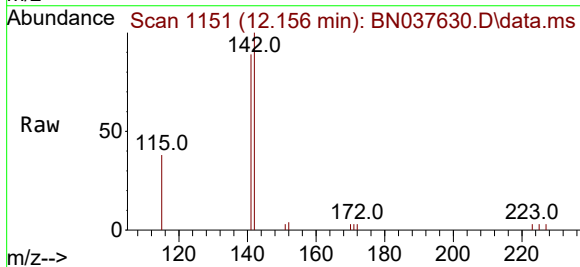
Instrument :
BNA_N
ClientSampleId :
PB169286BS

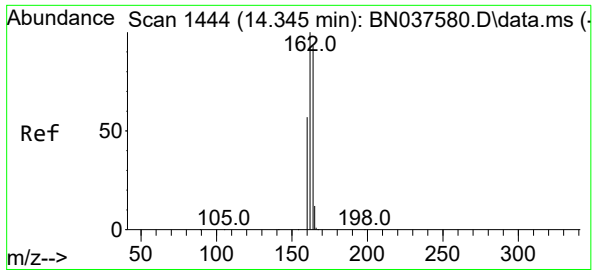
Tgt Ion:152 Resp: 2508
Ion Ratio Lower Upper
152 100
151 22.4 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.308 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion:142 Resp: 2891
Ion Ratio Lower Upper
142 100
141 89.0 71.4 107.0
115 38.0 30.2 45.4

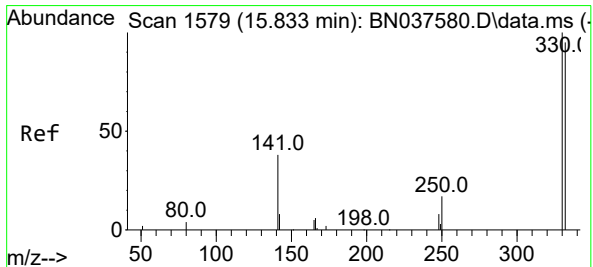
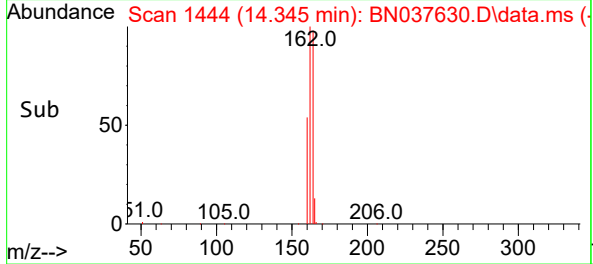
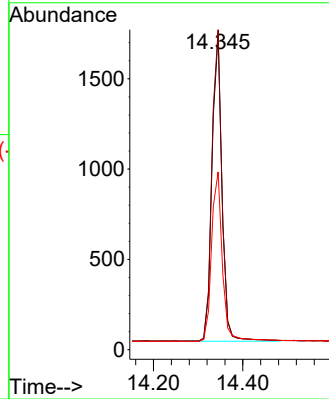
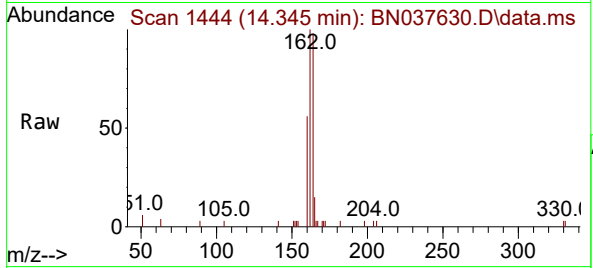




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

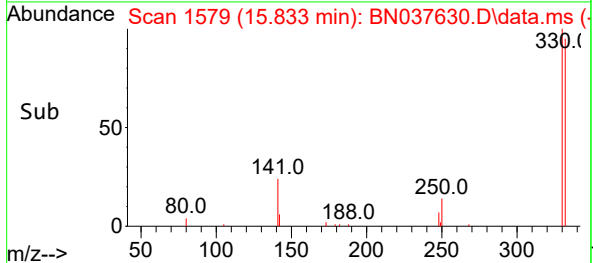
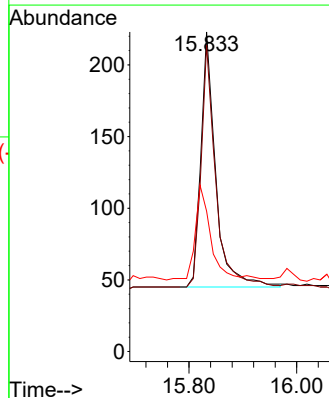
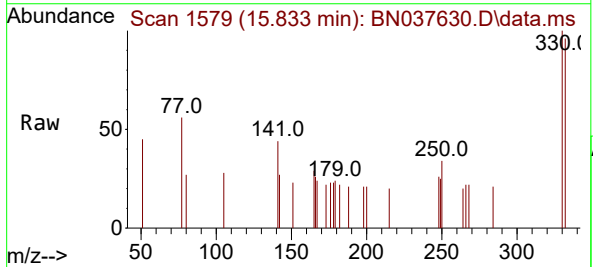
Instrument :
BNA_N
ClientSampleId :
PB169286BS

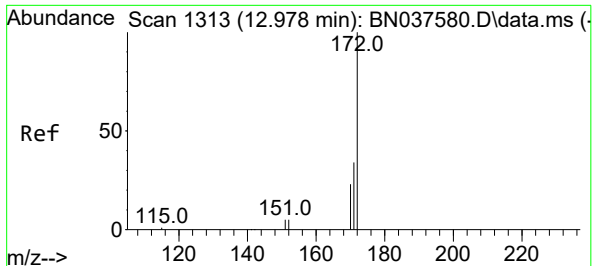
Tgt Ion:164 Resp: 2629
Ion Ratio Lower Upper
164 100
162 101.7 85.5 128.3
160 56.5 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.297 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion:330 Resp: 342
Ion Ratio Lower Upper
330 100
332 93.3 77.4 116.0
141 39.5 30.9 46.3

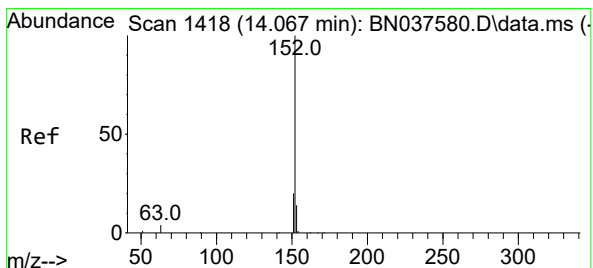
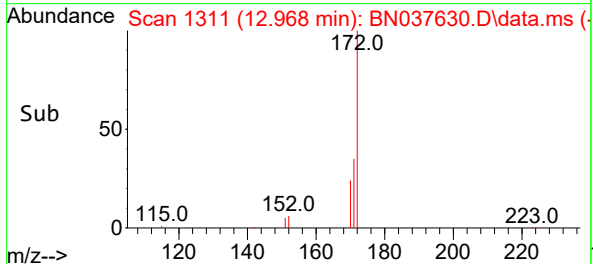
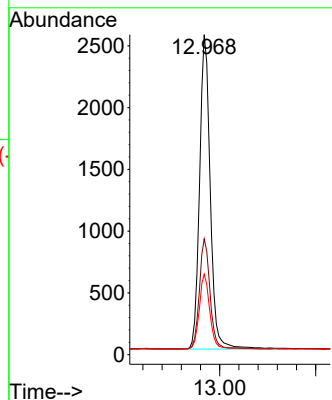
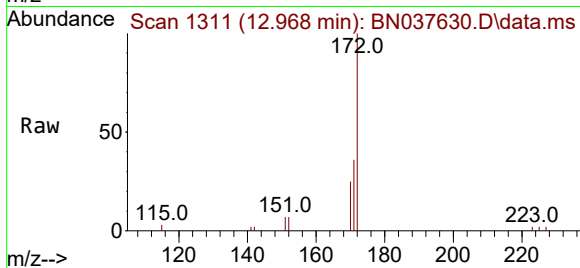




#15
2-Fluorobiphenyl
Concen: 0.362 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

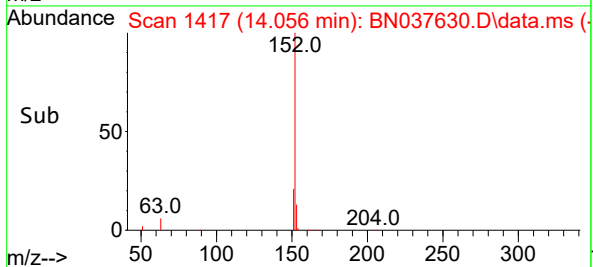
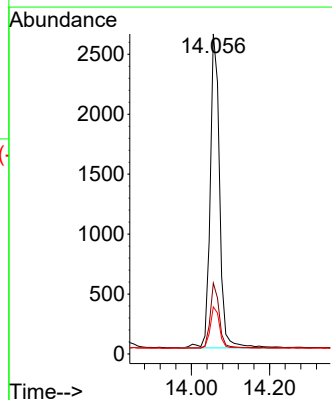
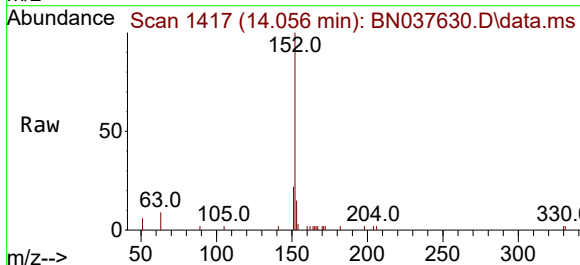
Instrument :
BNA_N
ClientSampleId :
PB169286BS

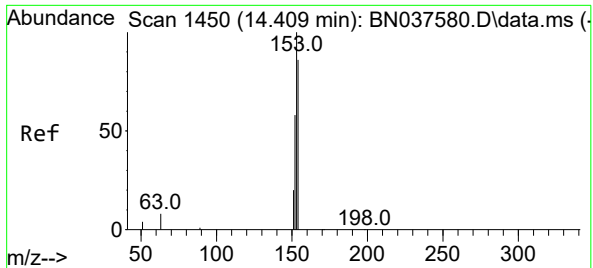
Tgt Ion:	172	Resp:	5503
Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.2	42.4
170	25.1	19.2	28.8



#16
Acenaphthylene
Concen: 0.373 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion:	152	Resp:	4394
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	13.3	10.7	16.1

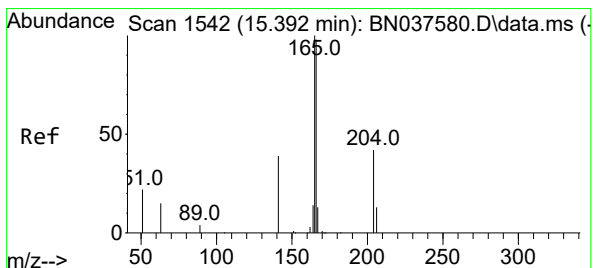
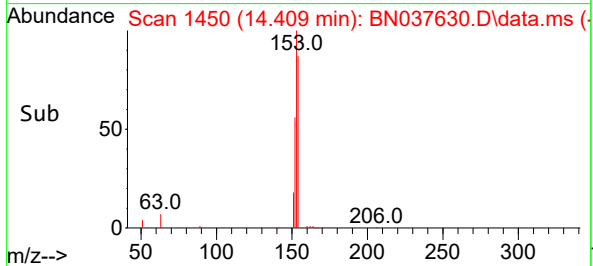
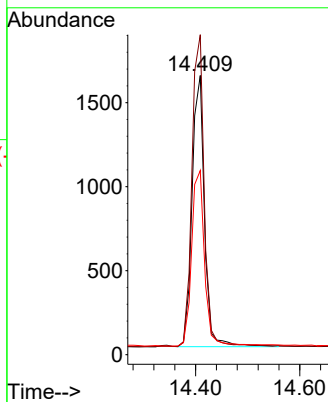
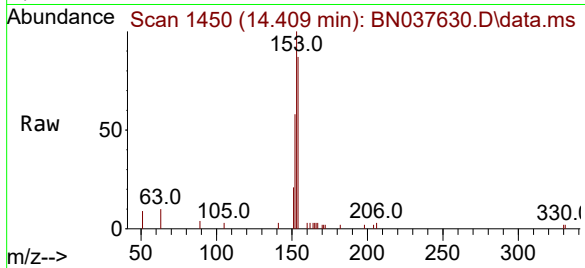




#17
Acenaphthene
Concen: 0.332 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

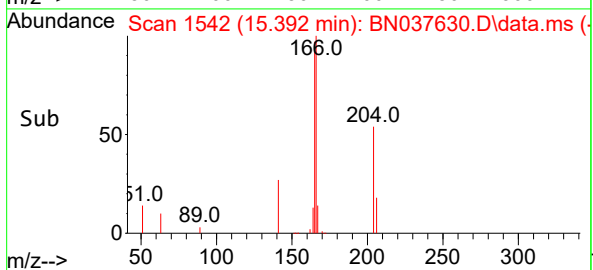
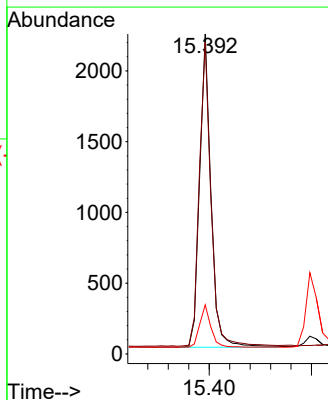
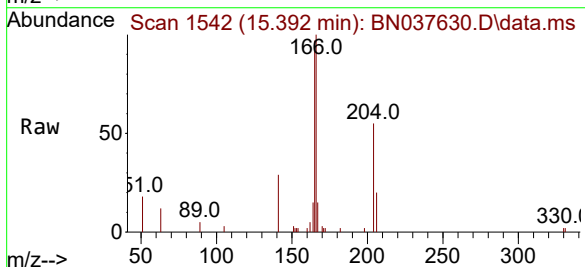
Instrument :
BNA_N
ClientSampleId :
PB169286BS

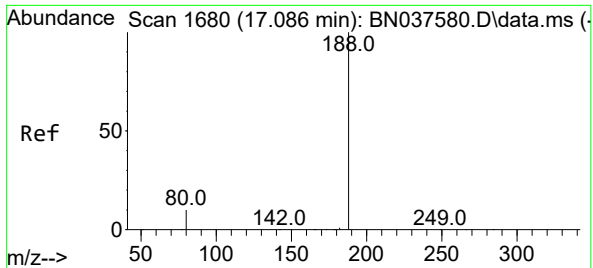
Tgt Ion	154	Resp:	2664
Ion Ratio	Lower	Upper	
154	100		
153	114.4	90.6	135.8
152	68.6	54.9	82.3



#18
Fluorene
Concen: 0.331 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion	166	Resp:	3473
Ion Ratio	Lower	Upper	
166	100		
165	99.2	78.9	118.3
167	13.1	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB169286BS

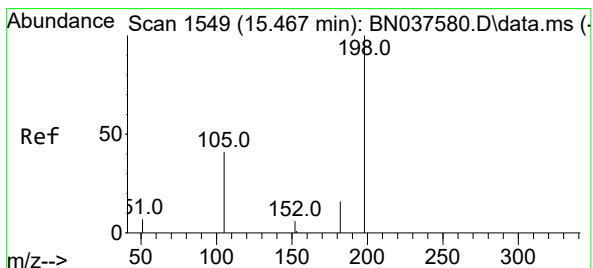
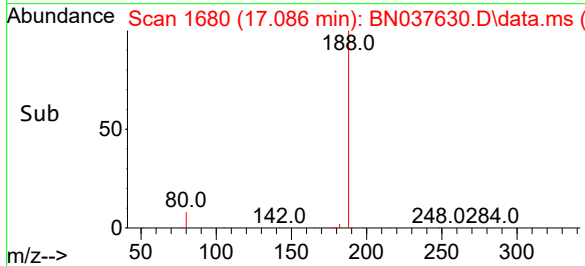
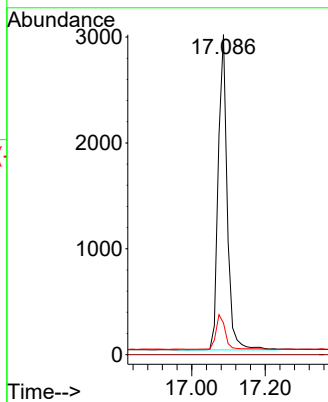
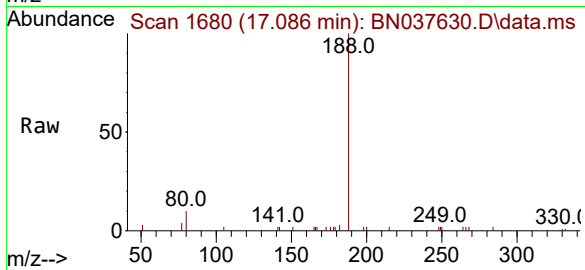
Tgt Ion:188 Resp: 5040

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.9 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.348 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

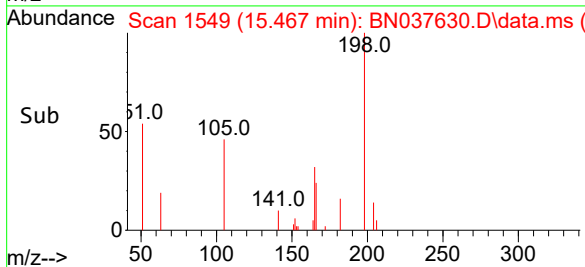
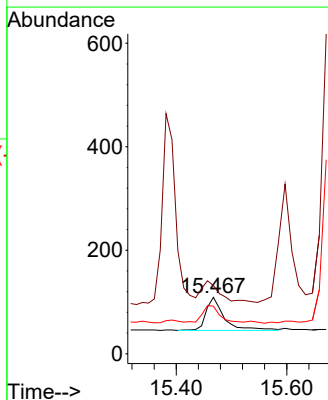
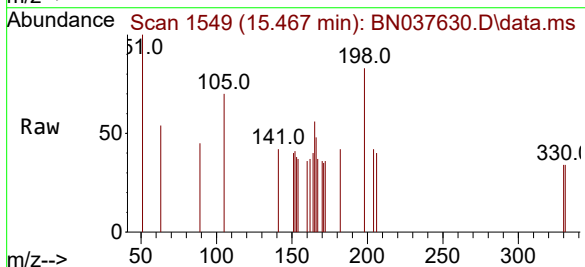
Tgt Ion:198 Resp: 153

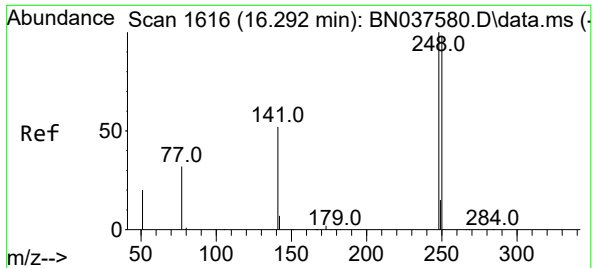
Ion Ratio Lower Upper

198 100

51 121.1 81.0 121.6

105 84.4 52.5 78.7#

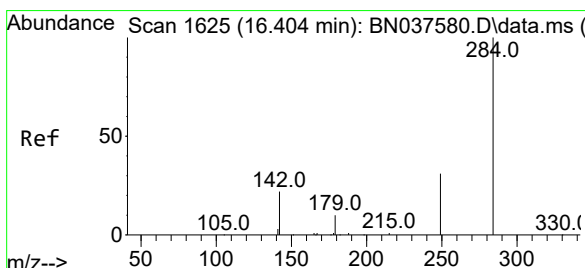
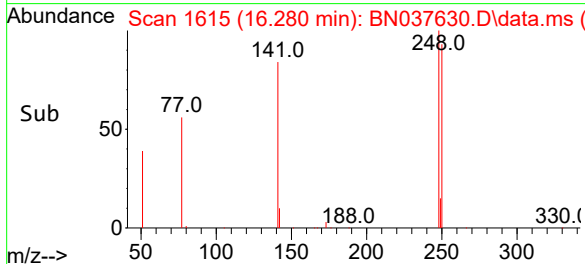
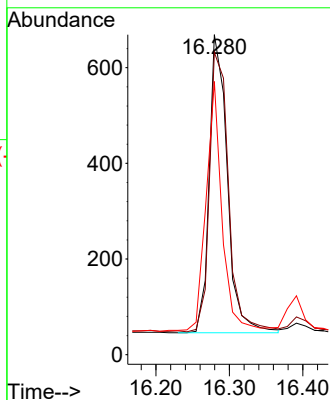
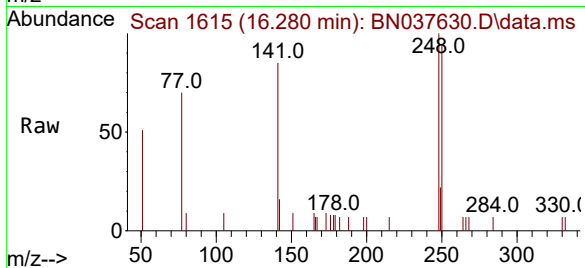




#21
4-Bromophenyl-phenylether
Concen: 0.336 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

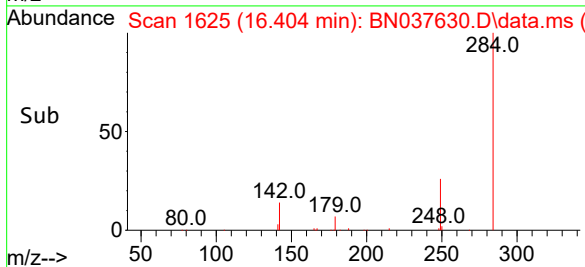
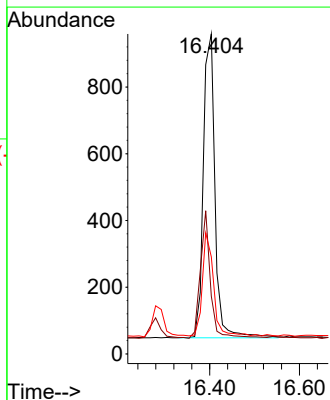
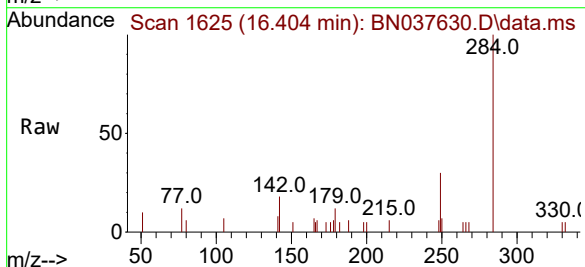
Instrument :
BNA_N
ClientSampleId :
PB169286BS

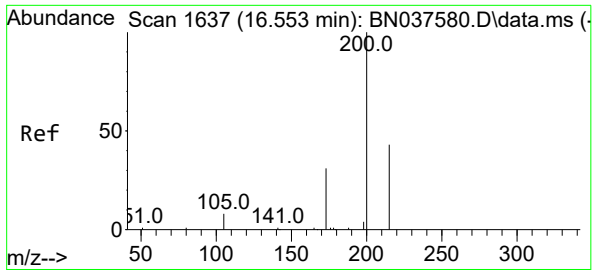
Tgt Ion:248 Resp: 1063
Ion Ratio Lower Upper
248 100
250 94.5 78.6 118.0
141 85.4 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.366 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion:284 Resp: 1644
Ion Ratio Lower Upper
284 100
142 35.3 29.8 44.6
249 32.5 26.0 39.0





#23

Atrazine

Concen: 0.384 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB169286BS

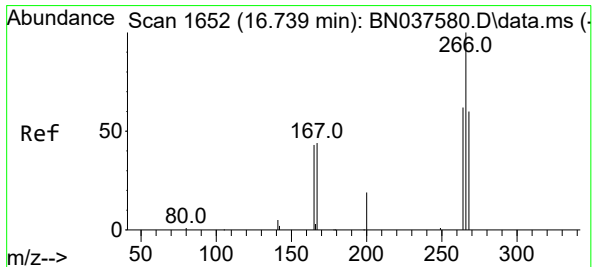
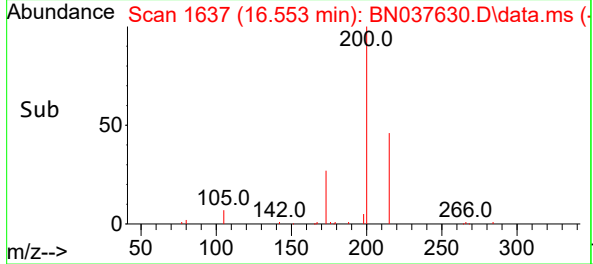
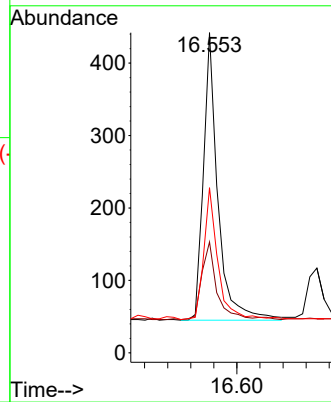
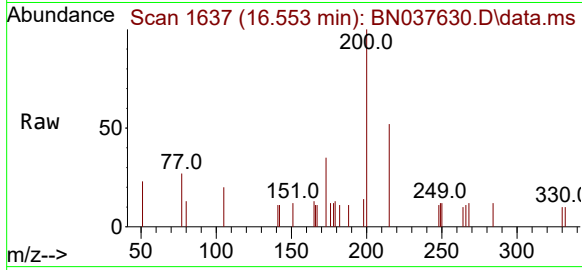
Tgt Ion:200 Resp: 688

Ion Ratio Lower Upper

200 100

173 34.6 31.0 46.4

215 51.6 39.4 59.0



#24

Pentachlorophenol

Concen: 0.456 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

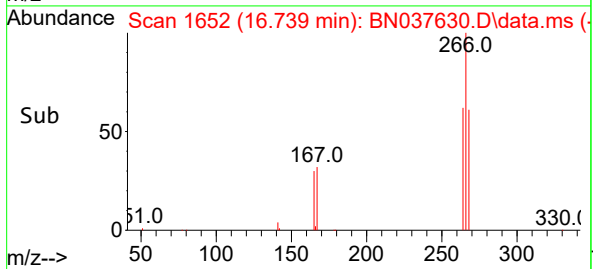
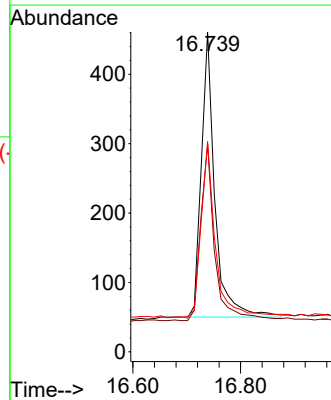
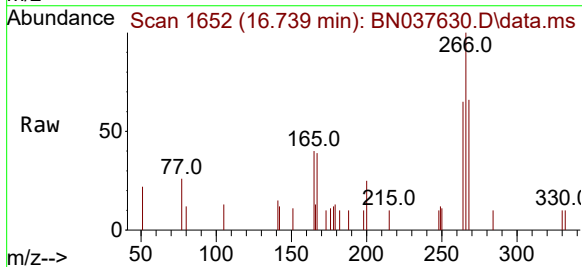
Tgt Ion:266 Resp: 719

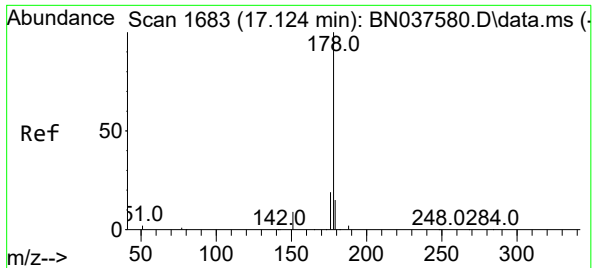
Ion Ratio Lower Upper

266 100

264 64.5 49.6 74.4

268 65.0 49.2 73.8

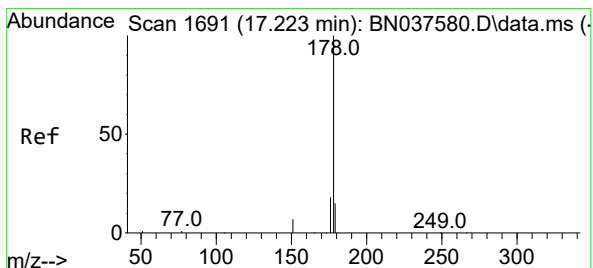
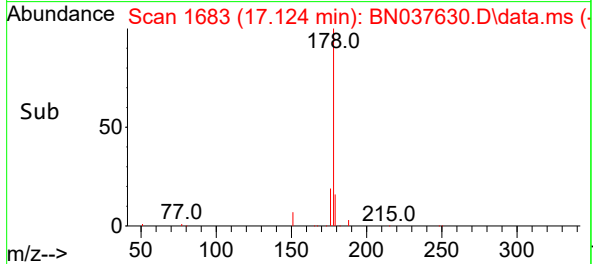
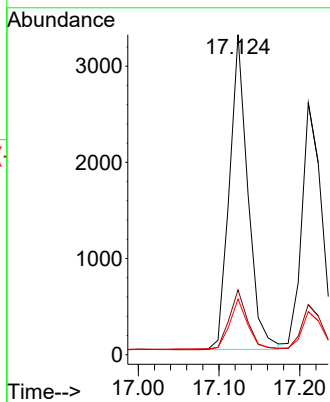
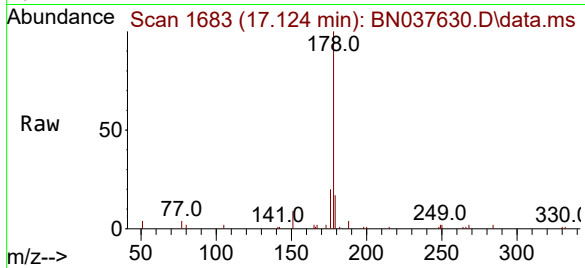




#25
Phenanthrene
Concen: 0.338 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

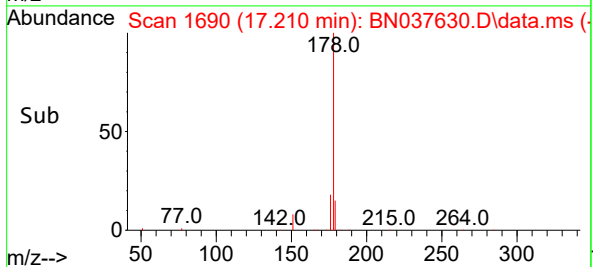
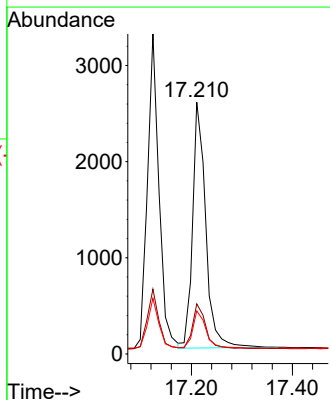
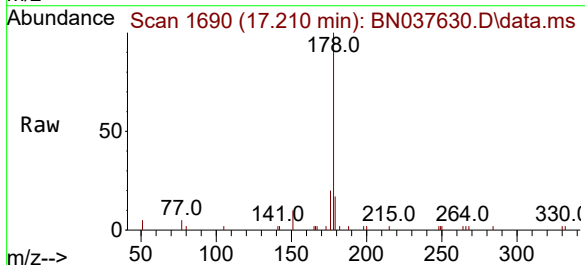
Instrument :
BNA_N
ClientSampleId :
PB169286BS

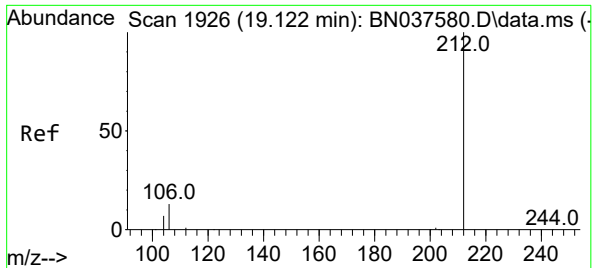
Tgt Ion:178 Resp: 5179
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.9 12.3 18.5



#26
Anthracene
Concen: 0.342 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion:178 Resp: 4635
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.305 ng

RT: 19.113 min Scan# 1924

Delta R.T. -0.009 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB169286BS

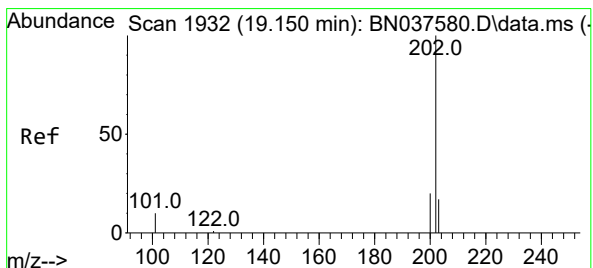
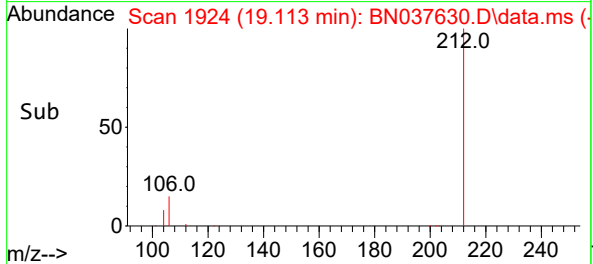
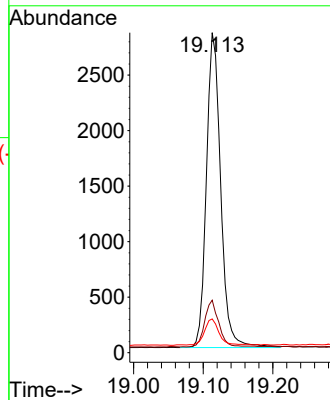
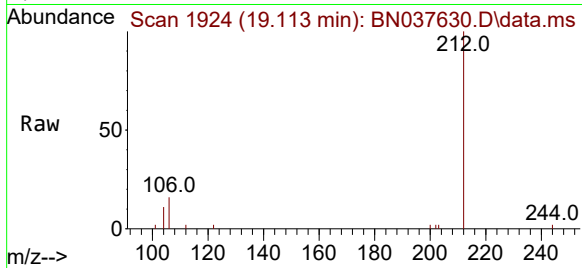
Tgt Ion:212 Resp: 4038

Ion Ratio Lower Upper

212 100

106 14.6 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.310 ng

RT: 19.146 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

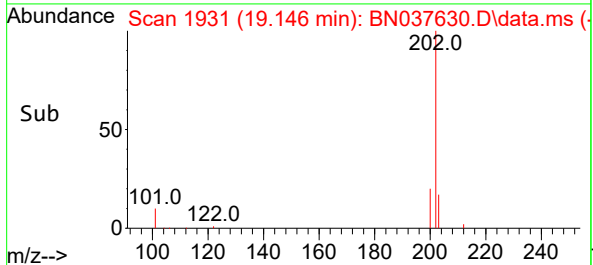
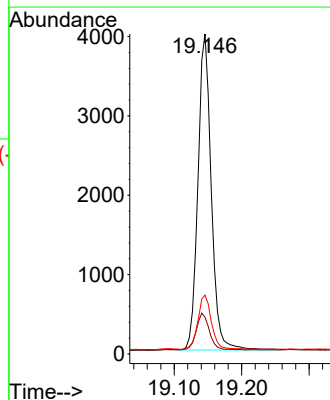
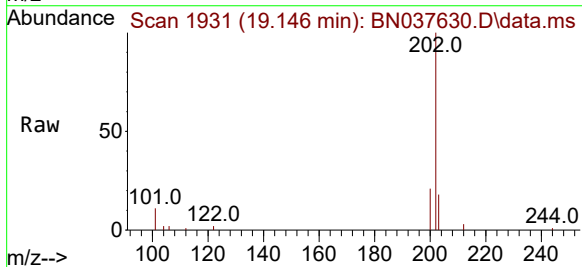
Tgt Ion:202 Resp: 5464

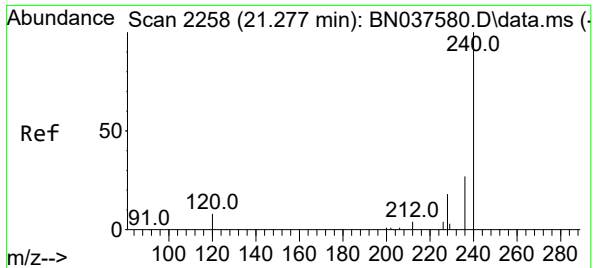
Ion Ratio Lower Upper

202 100

101 11.4 9.0 13.6

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB169286BS

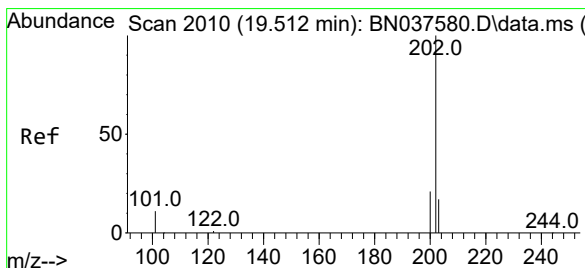
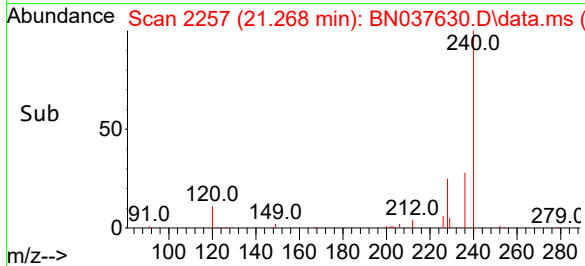
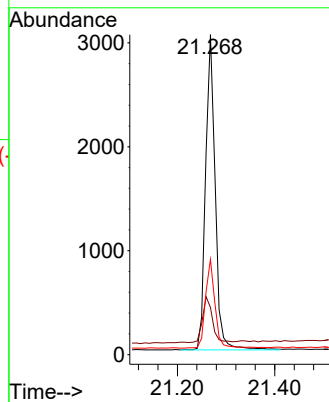
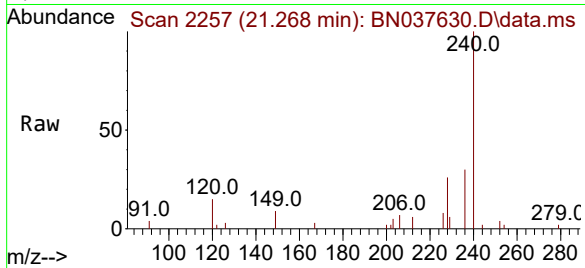
Tgt Ion:240 Resp: 4175

Ion Ratio Lower Upper

240 100

120 14.7 8.9 13.3#

236 29.8 22.6 33.8



#30

Pyrene

Concen: 0.342 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

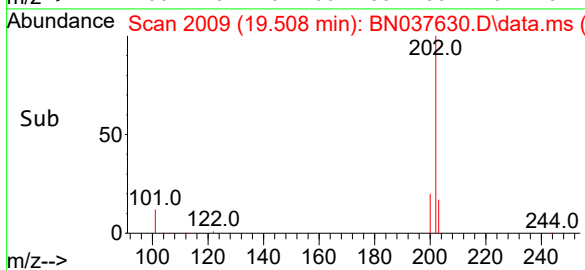
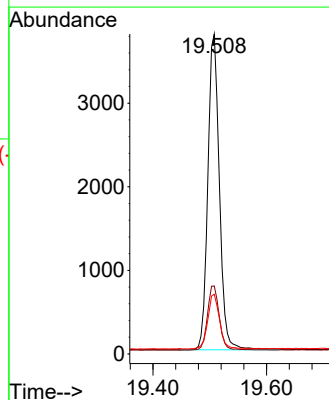
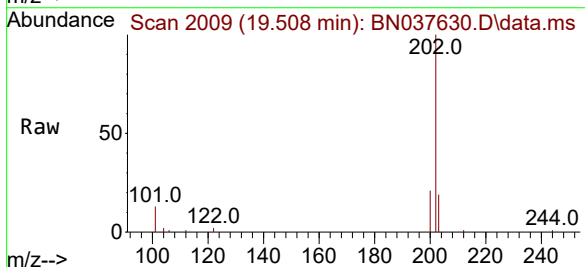
Tgt Ion:202 Resp: 5332

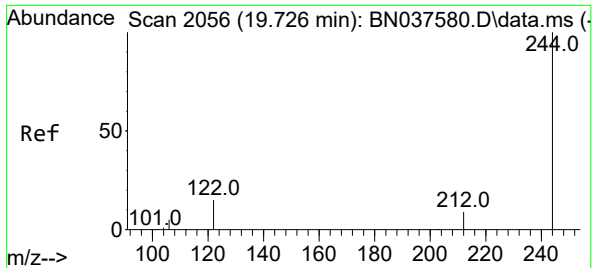
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 17.9 14.3 21.5

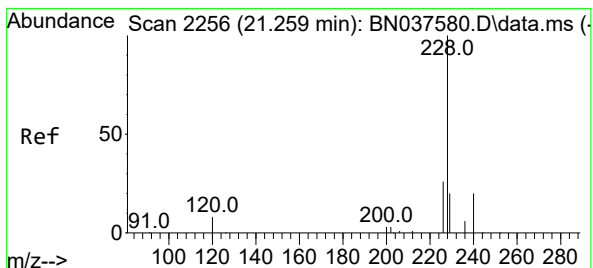
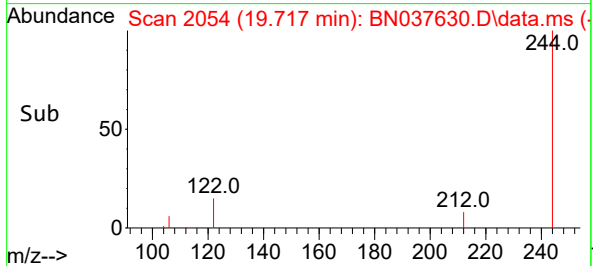
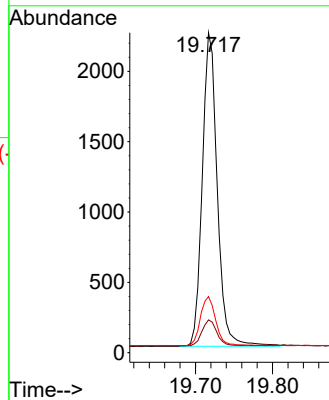
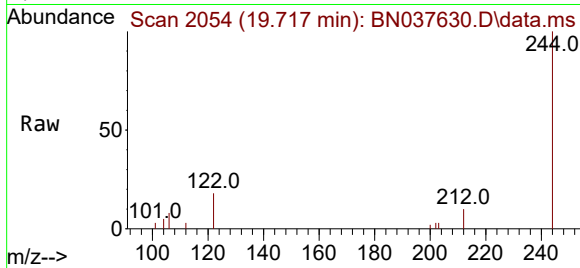




#31
Terphenyl-d14
Concen: 0.350 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

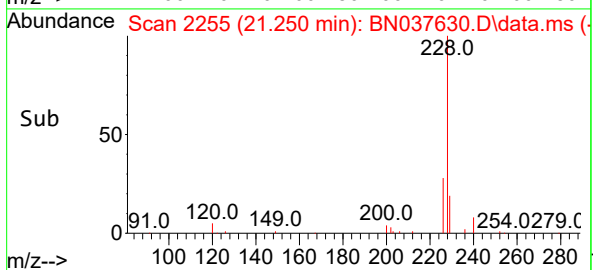
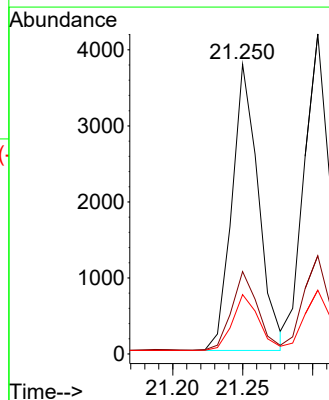
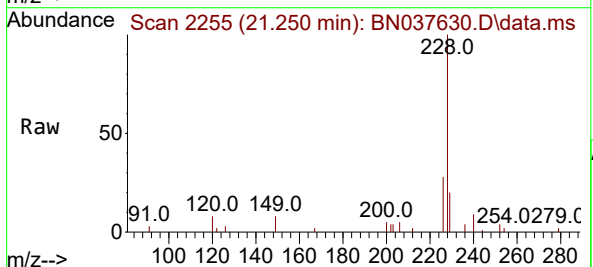
Instrument :
BNA_N
ClientSampleId :
PB169286BS

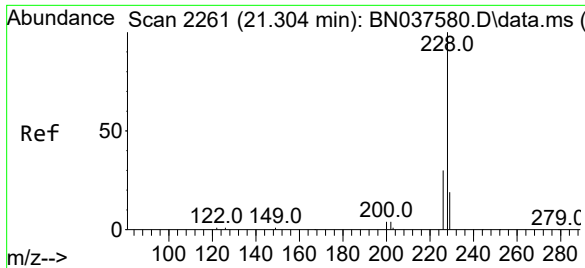
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.3	8.2	12.2
122	17.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.355 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.5	21.5	32.3
229	20.5	16.5	24.7





#33

Chrysene

Concen: 0.360 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB169286BS

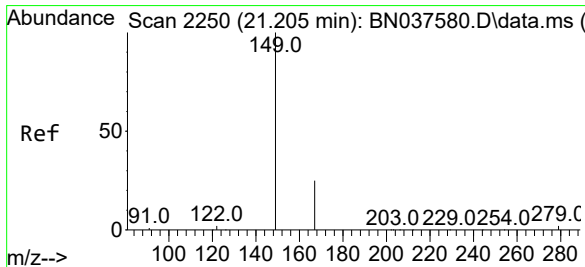
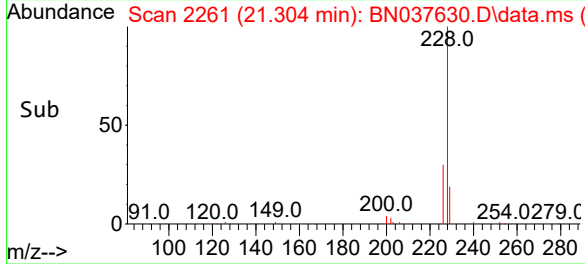
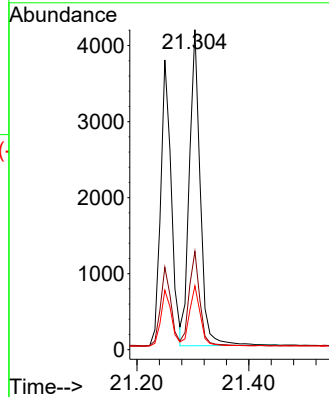
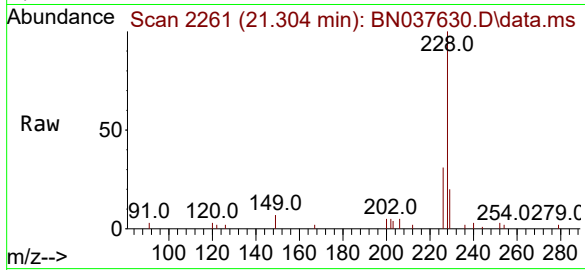
Tgt Ion:228 Resp: 5598

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

229 20.0 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.324 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

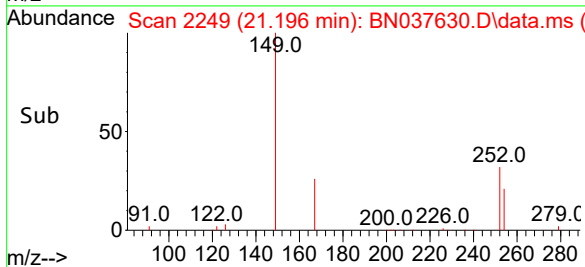
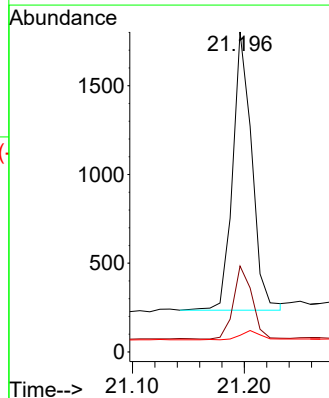
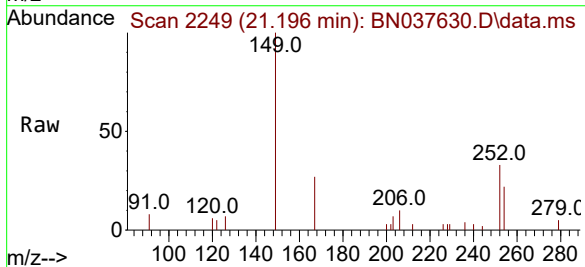
Tgt Ion:149 Resp: 1867

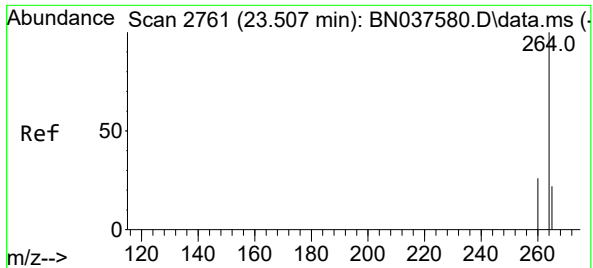
Ion Ratio Lower Upper

149 100

167 25.7 20.5 30.7

279 3.6 2.6 4.0

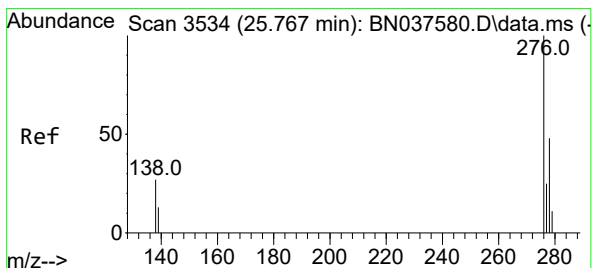
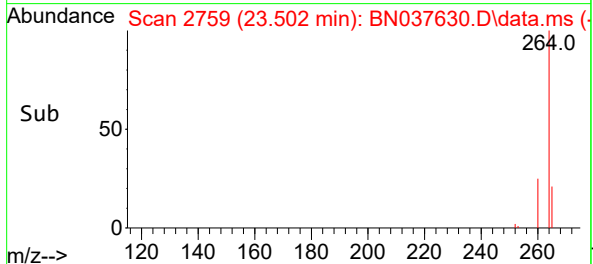
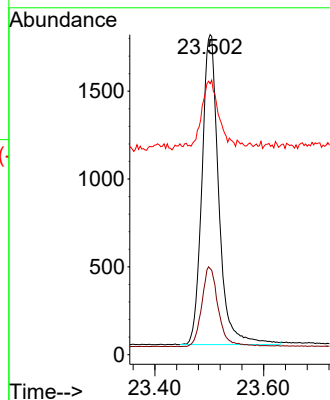
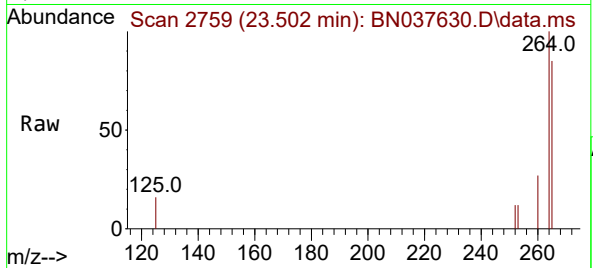




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.502 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

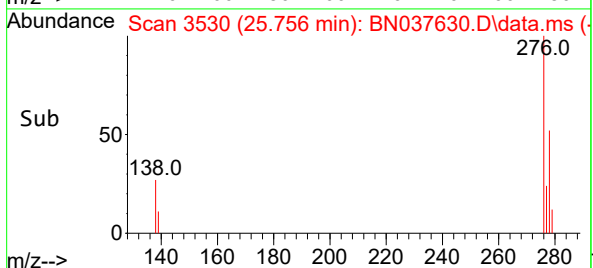
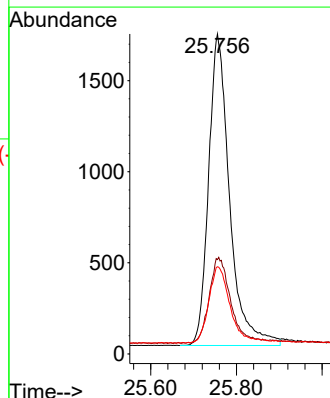
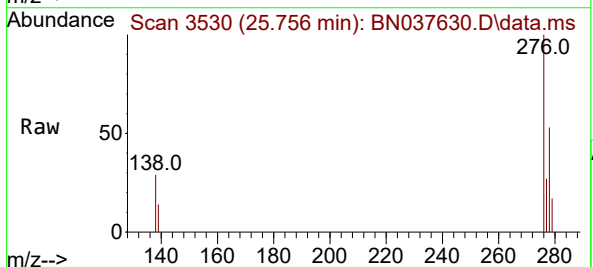
Instrument :
BNA_N
ClientSampleId :
PB169286BS

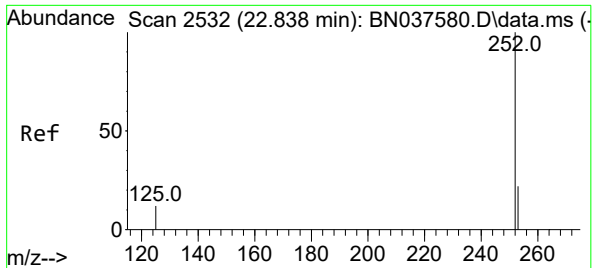
Tgt Ion:264 Resp: 3780
Ion Ratio Lower Upper
264 100
260 26.9 21.6 32.4
265 84.7 48.2 72.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.365 ng
RT: 25.756 min Scan# 3530
Delta R.T. -0.012 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

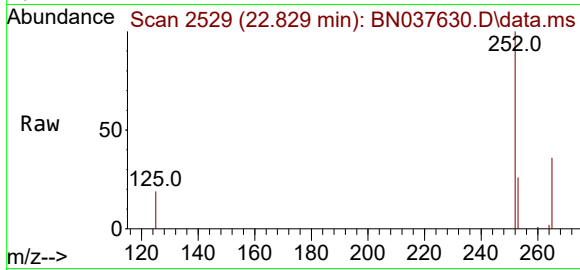
Tgt Ion:276 Resp: 5812
Ion Ratio Lower Upper
276 100
138 27.9 23.3 34.9
277 24.4 19.5 29.3



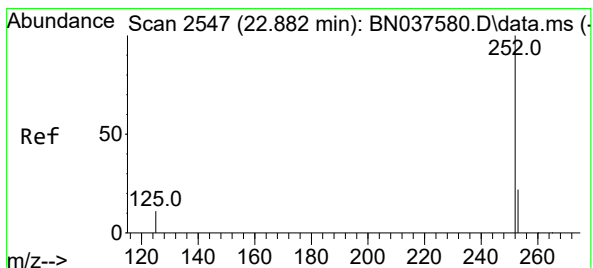
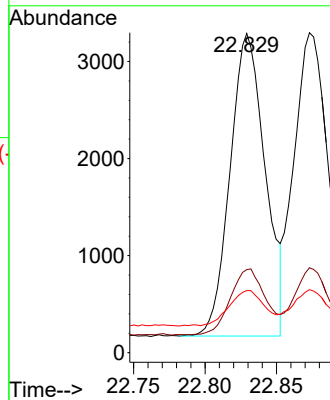
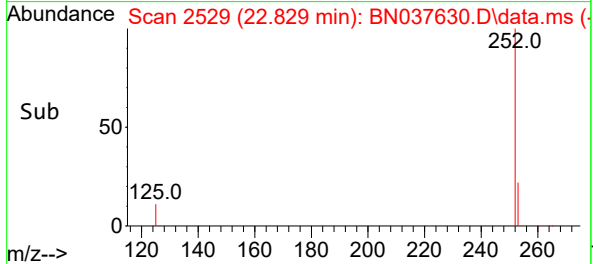


#37
Benzo(b)fluoranthene
Concen: 0.372 ng
RT: 22.829 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25

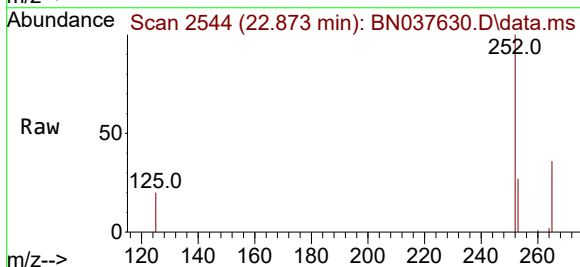
Instrument :
BNA_N
ClientSampleId :
PB169286BS



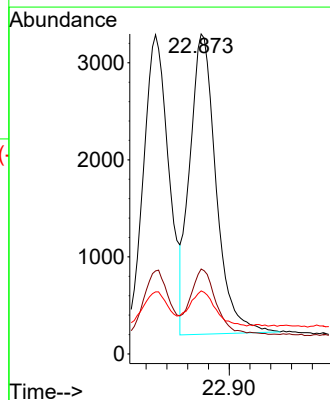
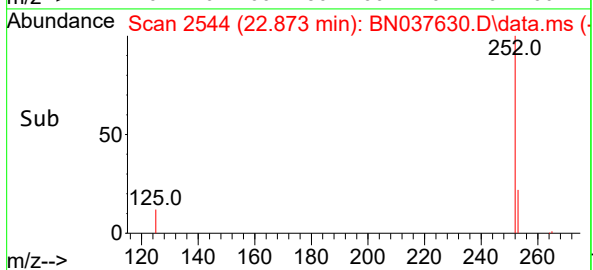
Tgt Ion:252 Resp: 5325
Ion Ratio Lower Upper
252 100
253 26.0 20.0 30.0
125 19.4 13.8 20.6

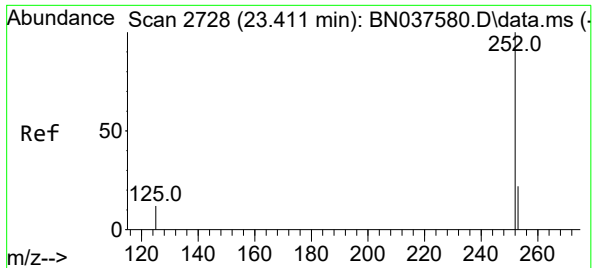


#38
Benzo(k)fluoranthene
Concen: 0.335 ng
RT: 22.873 min Scan# 2544
Delta R.T. -0.009 min
Lab File: BN037630.D
Acq: 20 Aug 2025 11:25



Tgt Ion:252 Resp: 5420
Ion Ratio Lower Upper
252 100
253 26.5 19.9 29.9
125 19.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB169286BS

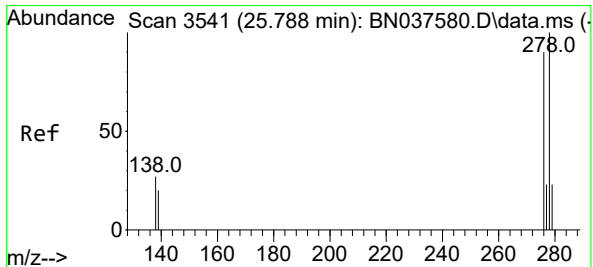
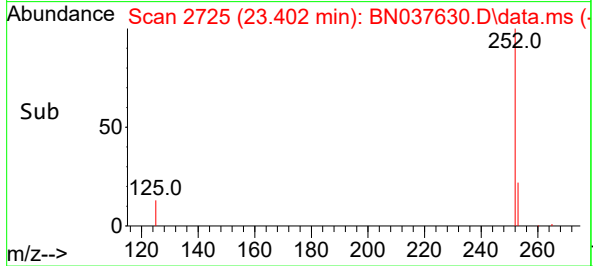
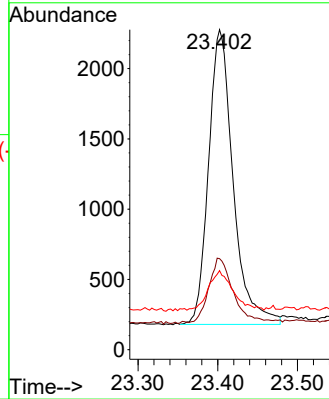
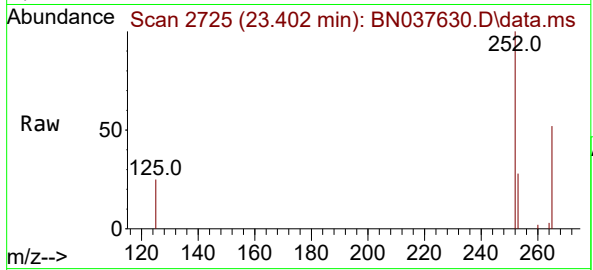
Tgt Ion:252 Resp: 4490

Ion Ratio Lower Upper

252 100

253 28.5 21.6 32.4

125 24.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.360 ng

RT: 25.776 min Scan# 3537

Delta R.T. -0.012 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

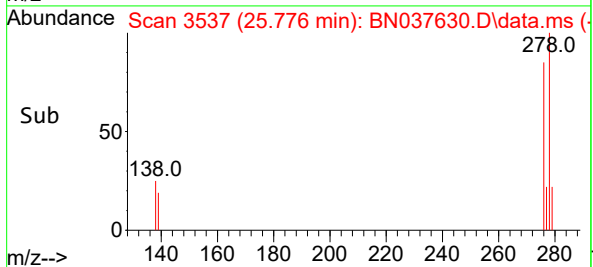
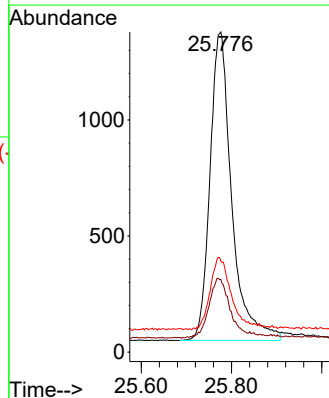
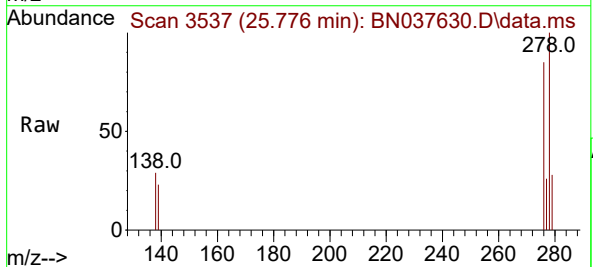
Tgt Ion:278 Resp: 4445

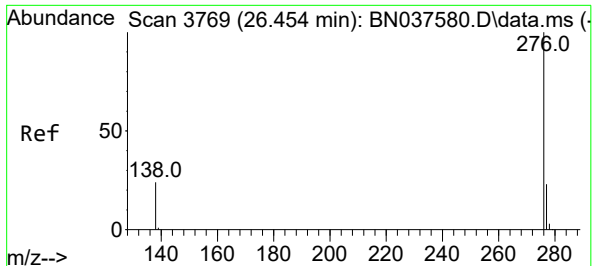
Ion Ratio Lower Upper

278 100

139 22.7 18.3 27.5

279 28.4 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.440 min Scan# 31

Delta R.T. -0.015 min

Lab File: BN037630.D

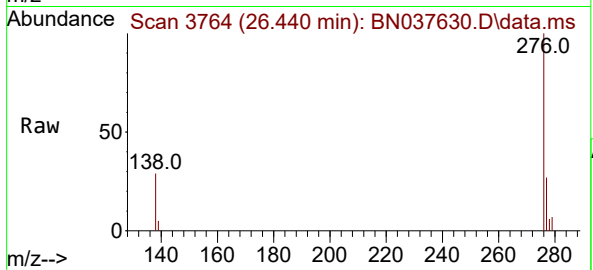
Acq: 20 Aug 2025 11:25

Instrument :

BNA_N

ClientSampleId :

PB169286BS



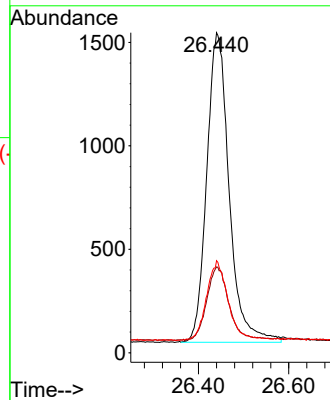
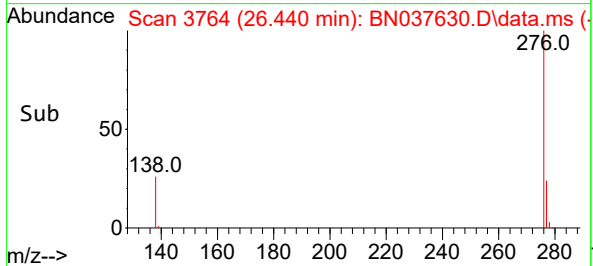
Tgt Ion:276 Resp: 5149

Ion Ratio Lower Upper

276 100

277 26.8 21.0 31.4

138 28.8 21.7 32.5



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/12/25
Client Sample ID:	MW-17B-55.5-08122025MS	SDG No.:	Q2881
Lab Sample ID:	Q2842-04MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	940 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
BN037605.D	1	08/18/25 08:41	08/19/25 13:40	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.00		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2020	7.717				
1146-65-2	Naphthalene-d8	4770	10.498				
15067-26-2	Acenaphthene-d10	2380	14.345				
1517-22-2	Phenanthrene-d10	4920	17.087				
1719-03-5	Chrysene-d12	4510	21.268				
1520-96-3	Perylene-d12	3910	23.505				

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\BN081925\
 Data File : BN037605.D
 Acq On : 19 Aug 2025 13:40
 Operator : RC/JU
 Sample : Q2842-04MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/20/2025
 Supervised By :Jagrut Upadhyay 08/20/2025

Quant Time: Aug 20 01:25:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2023	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4765	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2380	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4922	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4507	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	3909	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	698	0.152	ng	0.00
5) Phenol-d6	6.879	99	508	0.092	ng	0.00
8) Nitrobenzene-d5	8.854	82	1111	0.331	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	2001m	0.309	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	392	0.376	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	4453	0.324	ng	0.00
27) Fluoranthene-d10	19.118	212	4870	0.376	ng	0.00
31) Terphenyl-d14	19.722	244	4344	0.468	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	5476	2.829	ng	# 90
3) n-Nitrosodimethylamine	3.536	42	418	0.169	ng	# 90
6) bis(2-Chloroethyl)ether	7.139	93	1634	0.329	ng	98
9) Naphthalene	10.541	128	4254	0.335	ng	98
10) Hexachlorobutadiene	10.840	225	924	0.298	ng	# 99
12) 2-Methylnaphthalene	12.162	142	2421	0.304	ng	99
16) Acenaphthylene	14.067	152	3870	0.363	ng	100
17) Acenaphthene	14.409	154	2473	0.341	ng	96
18) Fluorene	15.393	166	3340	0.352	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	226	0.434	ng	88
21) 4-Bromophenyl-phenylether	16.280	248	1089	0.352	ng	# 75
22) Hexachlorobenzene	16.404	284	1490	0.340	ng	99
23) Atrazine	16.553	200	797	0.456	ng	95
24) Pentachlorophenol	16.739	266	1320	0.857	ng	99
25) Phenanthrene	17.124	178	6725	0.449	ng	100
26) Anthracene	17.211	178	5205	0.393	ng	100
28) Fluoranthene	19.146	202	7212	0.420	ng	100
30) Pyrene	19.508	202	6994	0.415	ng	100
32) Benzo(a)anthracene	21.259	228	6028	0.400	ng	99
33) Chrysene	21.304	228	6700	0.399	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3417	0.550	ng	99
36) Indeno(1,2,3-cd)pyrene	25.759	276	6122	0.372	ng	99
37) Benzo(b)fluoranthene	22.832	252	6094	0.411	ng	99
38) Benzo(k)fluoranthene	22.876	252	6247	0.374	ng	98
39) Benzo(a)pyrene	23.405	252	5054	0.411	ng	99
40) Dibenzo(a,h)anthracene	25.779	278	4709	0.368	ng	99
41) Benzo(g,h,i)perylene	26.449	276	5269	0.391	ng	100

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

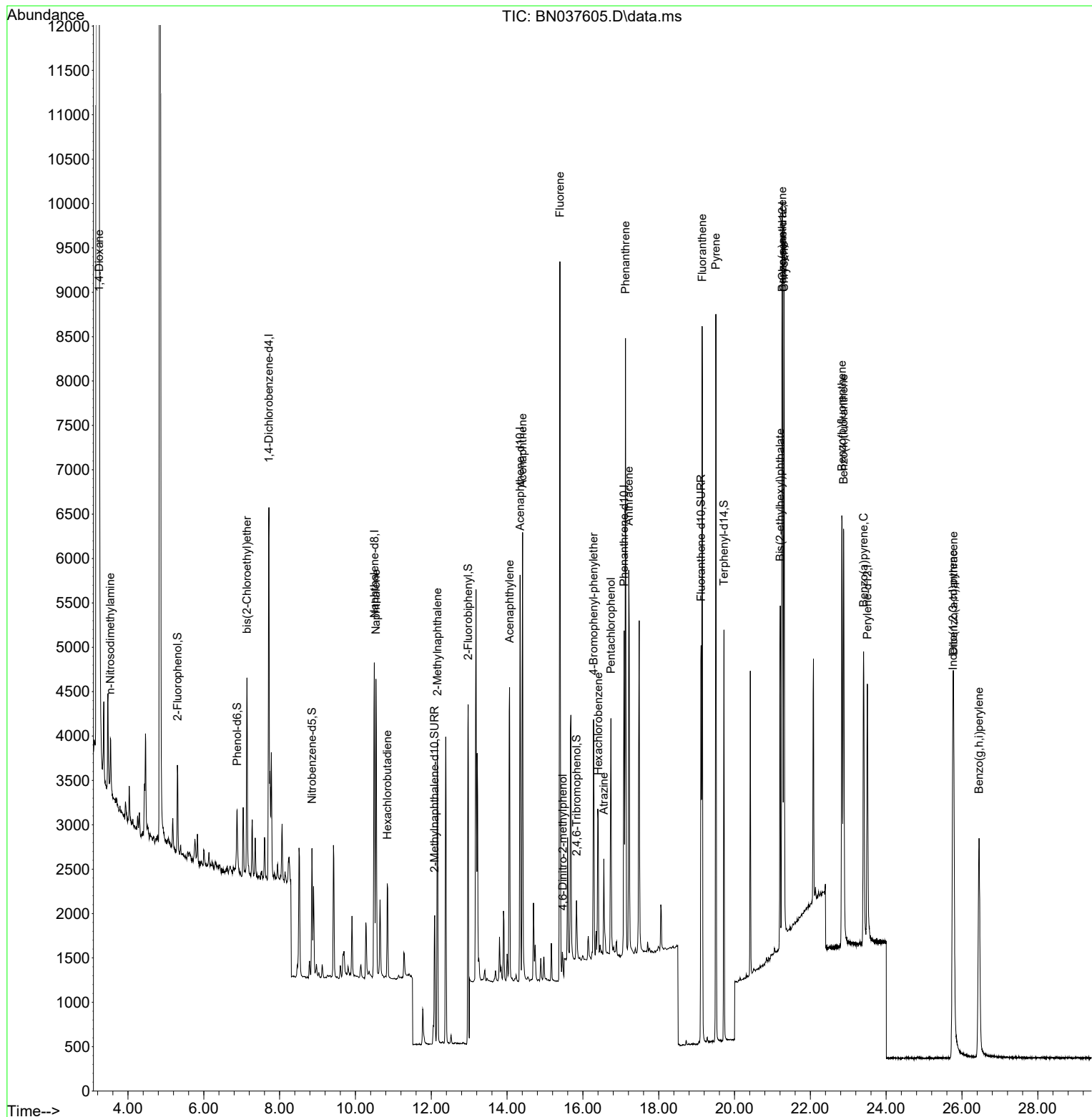
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037605.D
Acq On : 19 Aug 2025 13:40
Operator : RC/JU
Sample : Q2842-04MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

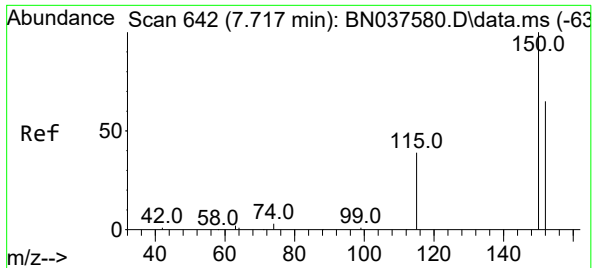
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

Quant Time: Aug 20 01:25:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

Manual Integrations
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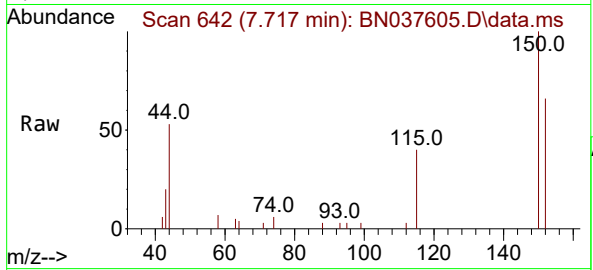
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

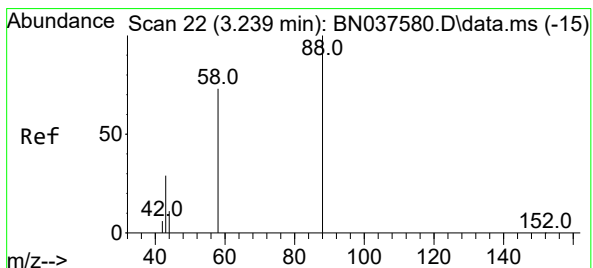
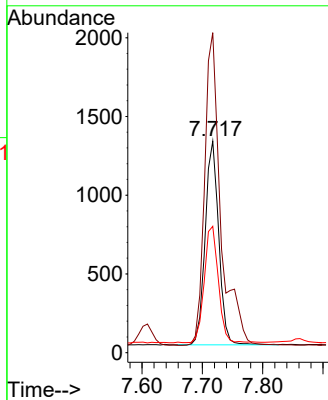
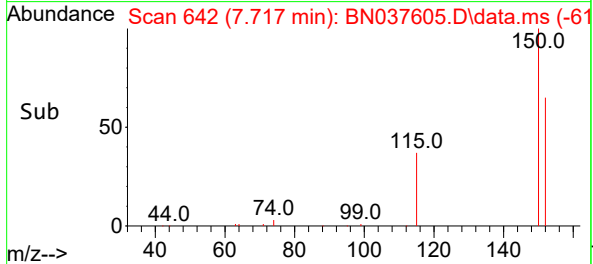
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion: 152 Resp: 202
Ion Ratio Lower Upper
152 100
150 151.3 122.2 183.4
115 59.8 49.8 74.6

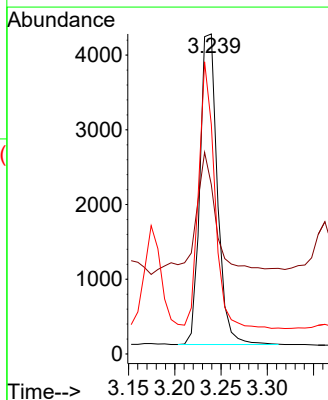
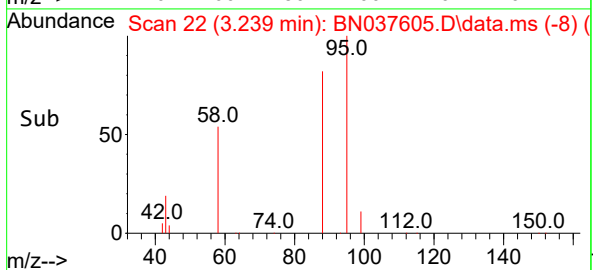
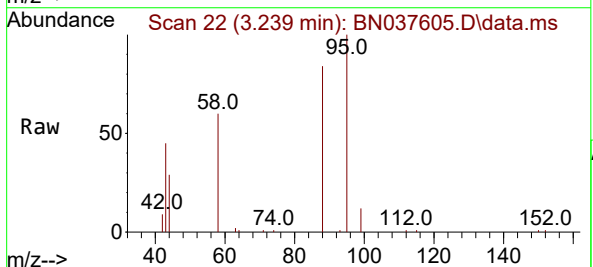
Manual Integrations
APPROVED

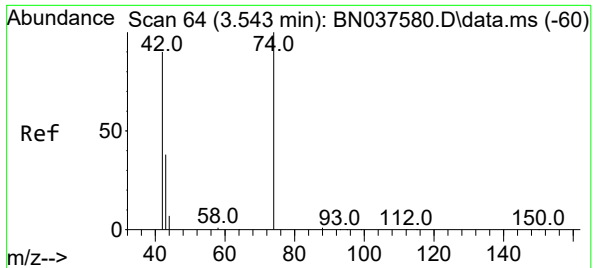
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#2
1,4-Dioxane
Concen: 2.829 ng
RT: 3.239 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

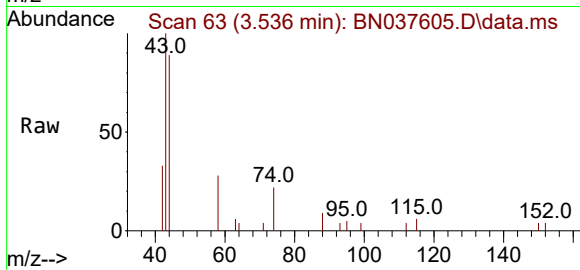
Tgt Ion: 88 Resp: 5476
Ion Ratio Lower Upper
88 100
43 48.7 25.8 38.6#
58 78.4 61.2 91.8





#3
n-Nitrosodimethylamine
Concen: 0.169 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

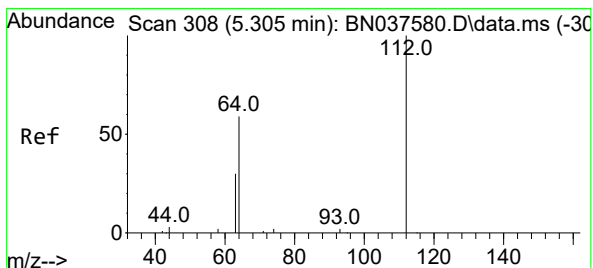
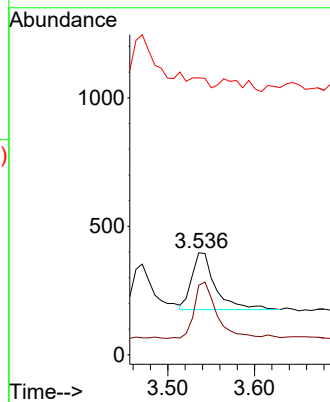
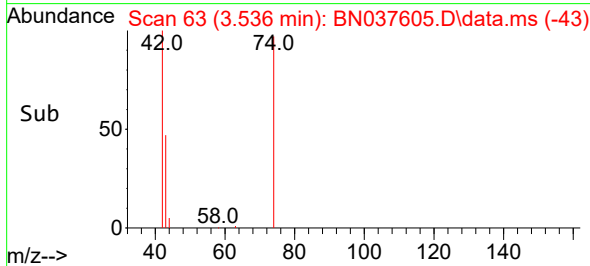
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion: 42 Resp: 418
Ion Ratio Lower Upper
42 100
74 94.0 82.0 123.0
44 0.0 7.9 11.9

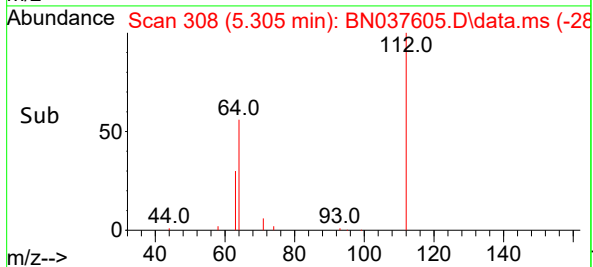
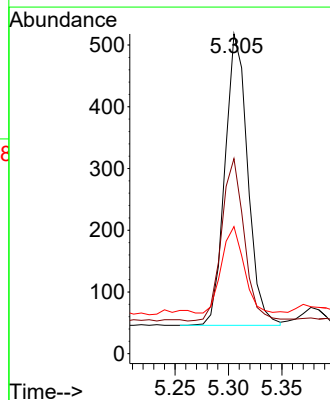
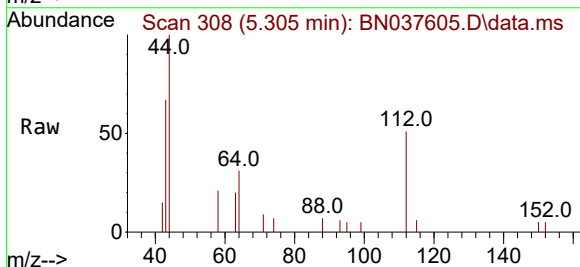
Manual Integrations
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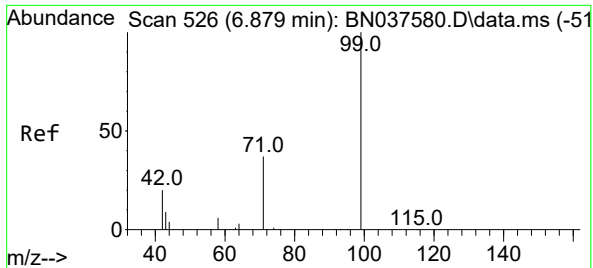
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#4
2-Fluorophenol
Concen: 0.152 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:112 Resp: 698
Ion Ratio Lower Upper
112 100
64 55.6 44.9 67.3
63 29.5 23.4 35.2





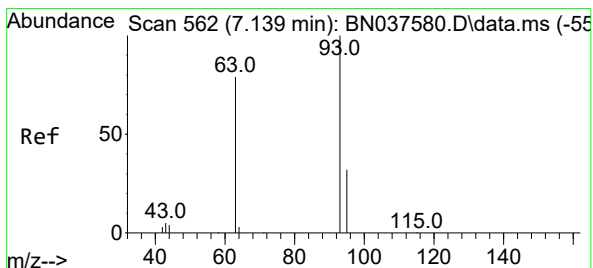
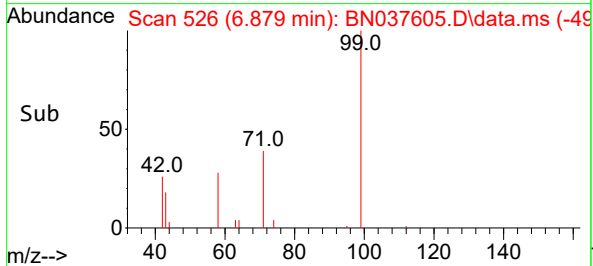
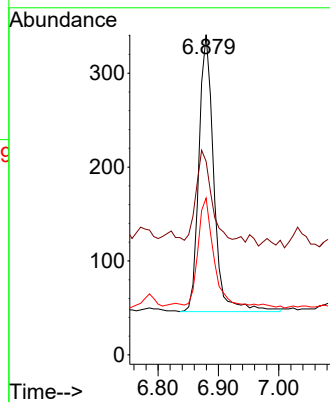
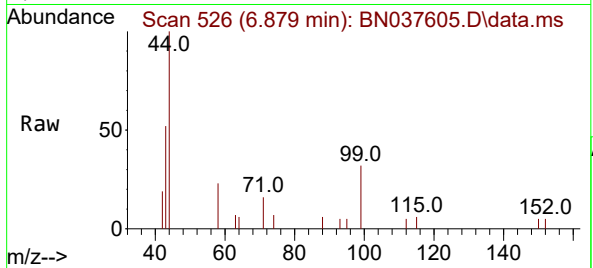
#5
Phenol-d6
Concen: 0.092 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

Tgt Ion: 99 Resp: 508
Ion Ratio Lower Upper
99 100
42 32.3 18.5 27.7
71 39.4 28.6 42.8

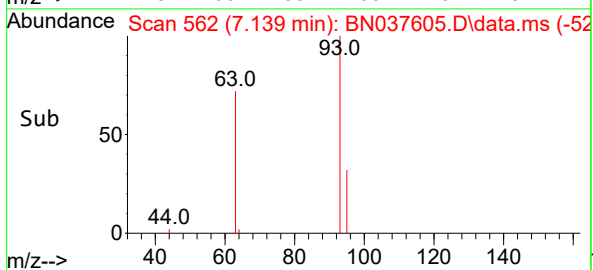
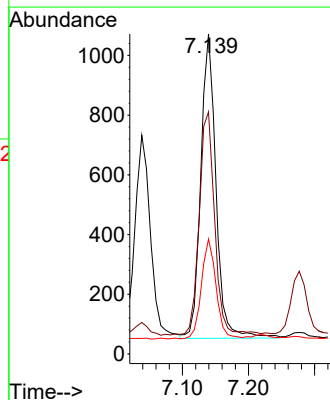
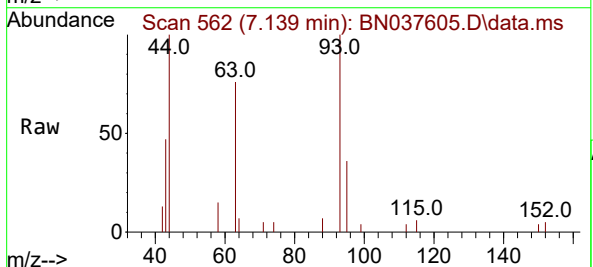
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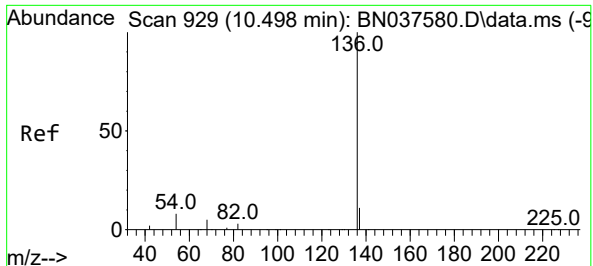
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.329 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

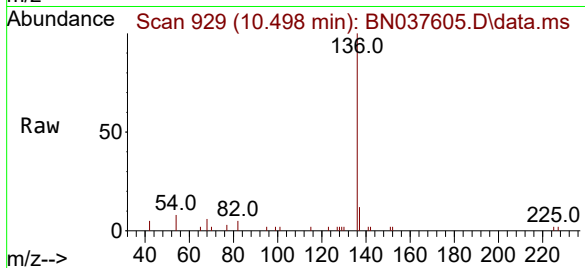
Tgt Ion: 93 Resp: 1634
Ion Ratio Lower Upper
93 100
63 74.9 58.0 87.0
95 31.4 24.9 37.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

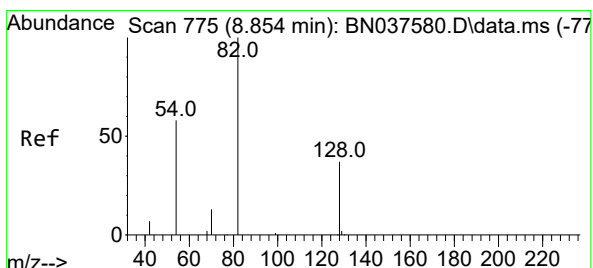
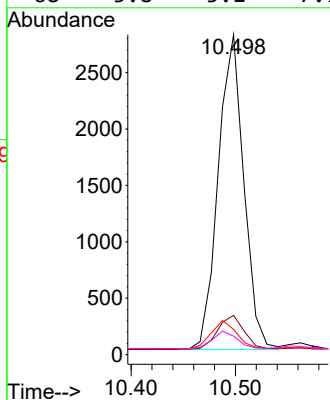
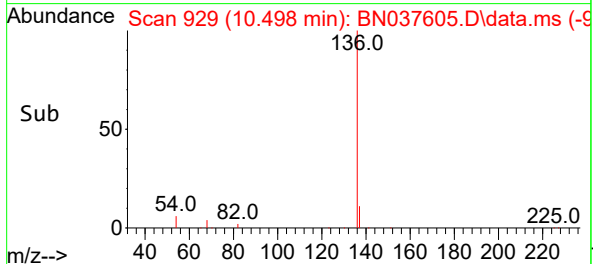
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion: 136 Resp: 476
Ion Ratio Lower Upper
136 100
137 12.3 9.5 14.3
54 7.9 7.3 10.9
68 5.8 5.1 7.7

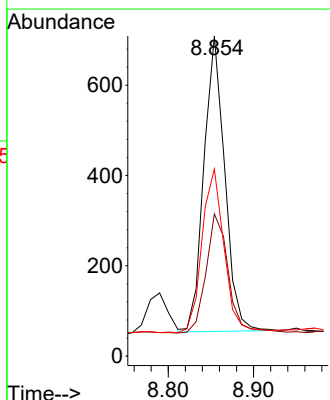
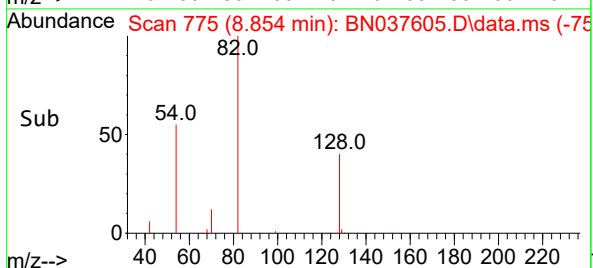
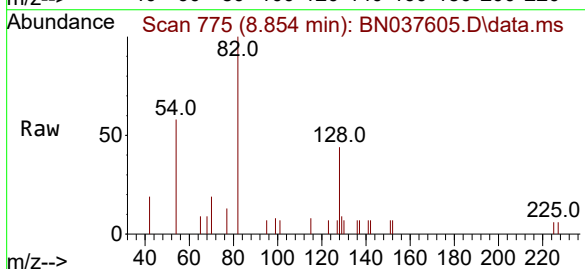
Manual Integrations
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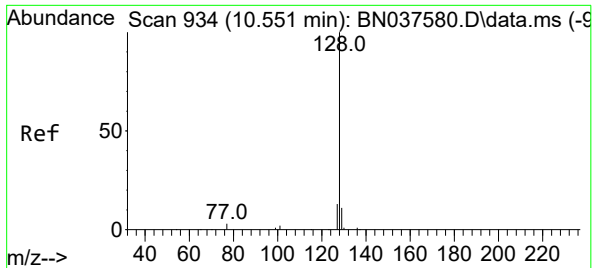
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

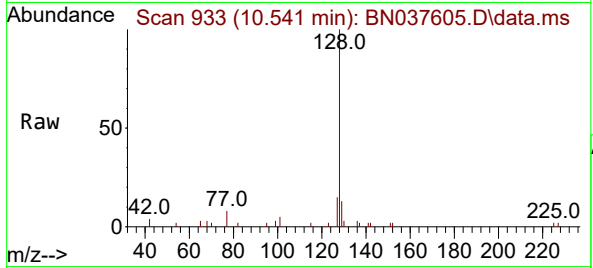
Tgt Ion: 82 Resp: 1111
Ion Ratio Lower Upper
82 100
128 44.4 32.6 48.8
54 58.4 48.9 73.3





#9
Naphthalene
Concen: 0.335 ng
RT: 10.541 min Scan# 910
Delta R.T. -0.010 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

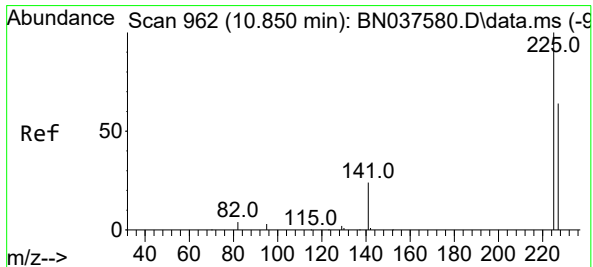
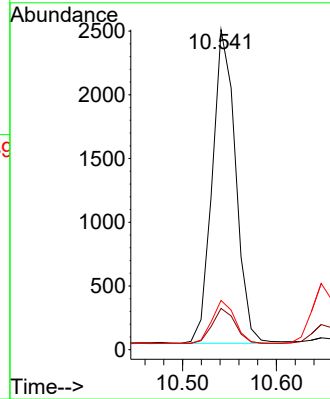
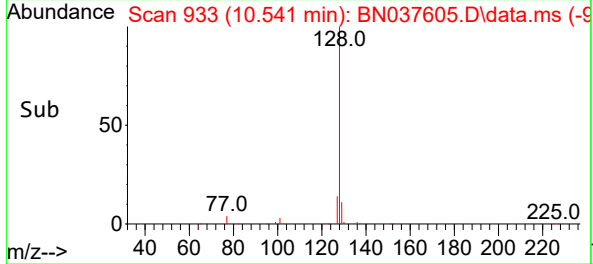
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion:128 Resp: 4254
Ion Ratio Lower Upper
128 100
129 12.9 9.8 14.6
127 15.4 11.5 17.3

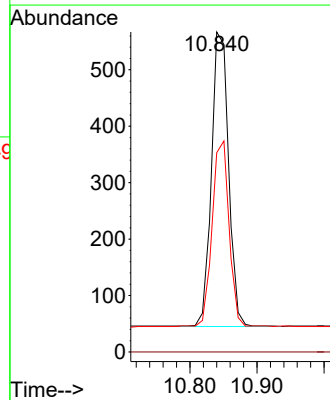
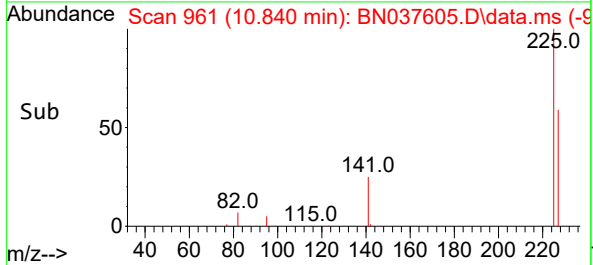
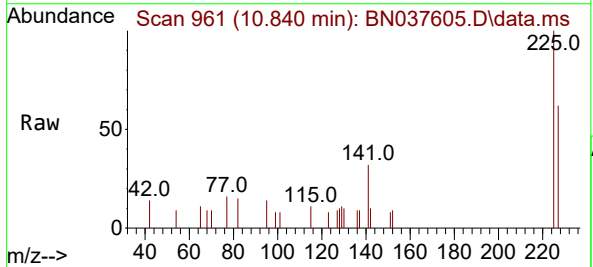
Manual Integrations
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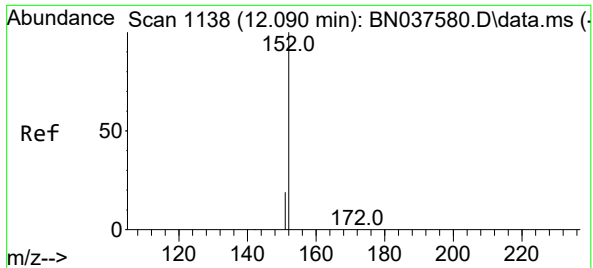
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#10
Hexachlorobutadiene
Concen: 0.298 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

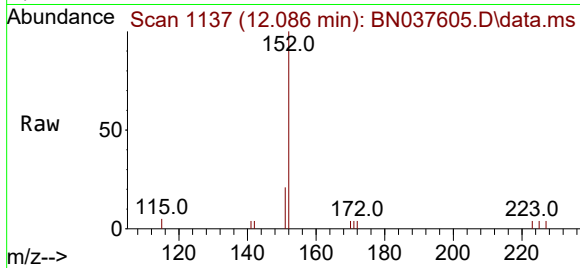
Tgt Ion:225 Resp: 924
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.3 50.8 76.2





#11
2-Methylnaphthalene-d10
Concen: 0.309 ng m
RT: 12.086 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

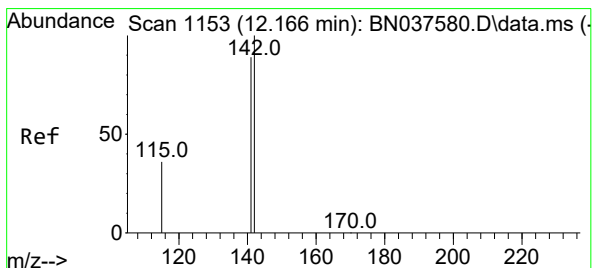
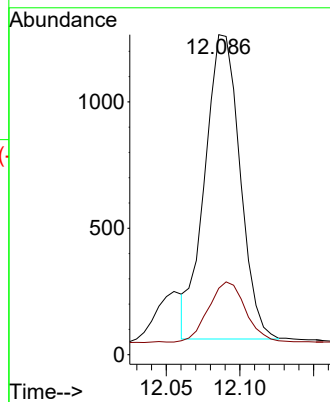
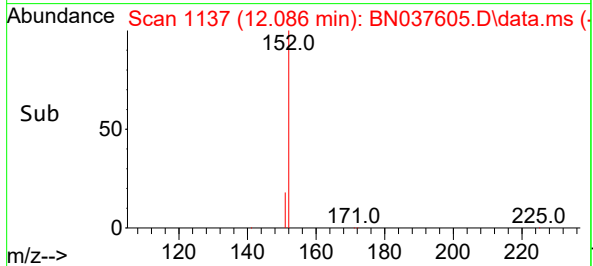
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion:152 Resp: 200
Ion Ratio Lower Upper
152 100
151 22.1 17.3 25.9

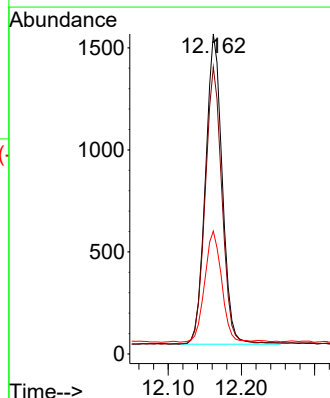
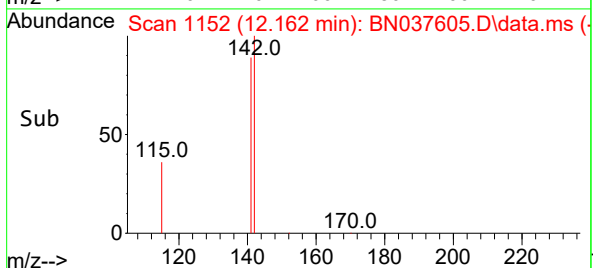
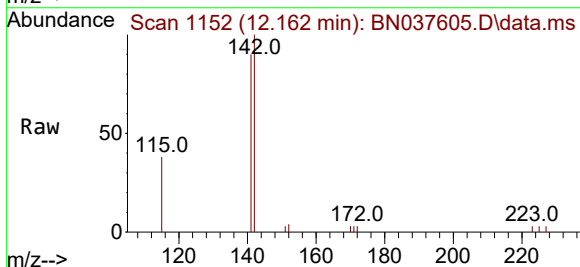
Manual Integrations
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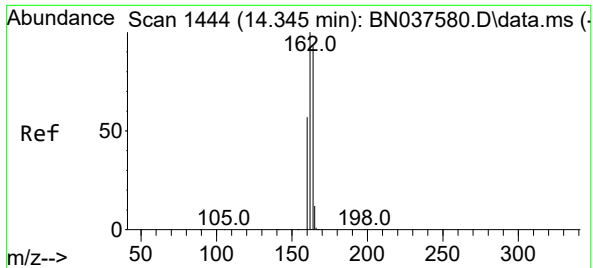
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#12
2-Methylnaphthalene
Concen: 0.304 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

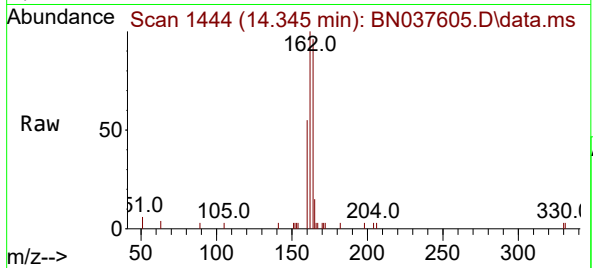
Tgt Ion:142 Resp: 2421
Ion Ratio Lower Upper
142 100
141 89.7 71.4 107.0
115 38.4 30.2 45.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

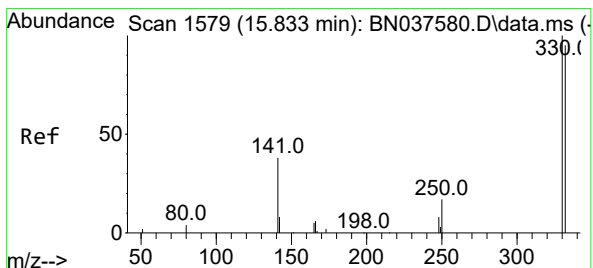
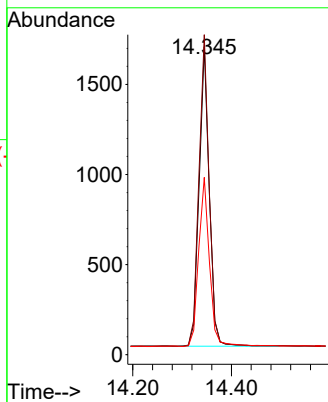
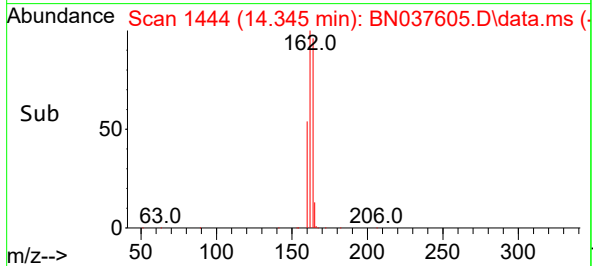
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



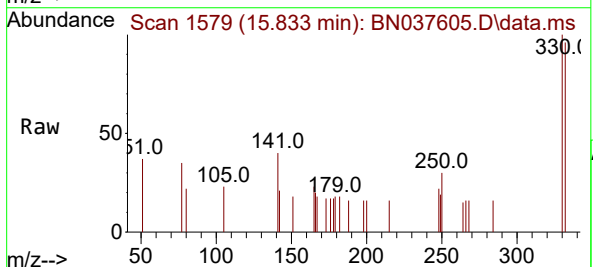
Tgt Ion:164 Resp: 2380
Ion Ratio Lower Upper
164 100
162 103.9 85.5 128.3
160 57.6 49.5 74.3

Manual Integrations
APPROVED

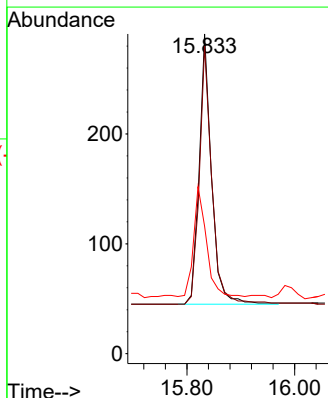
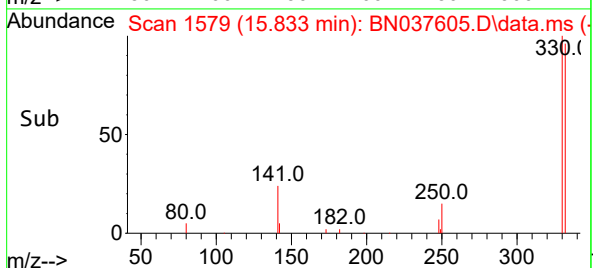
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

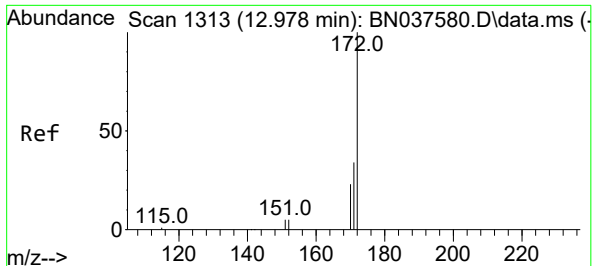


#14
2,4,6-Tribromophenol
Concen: 0.376 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40



Tgt Ion:330 Resp: 392
Ion Ratio Lower Upper
330 100
332 96.9 77.4 116.0
141 43.4 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 0.324 ng

RT: 12.973 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

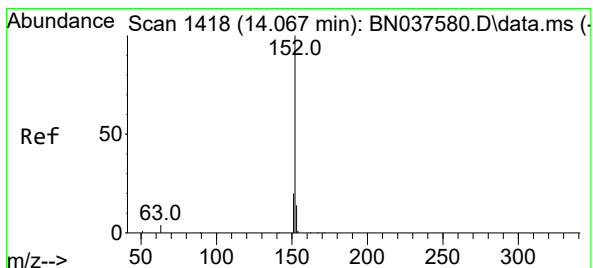
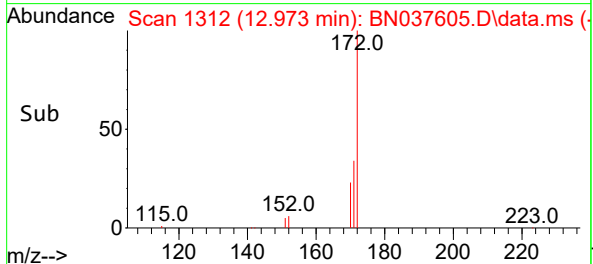
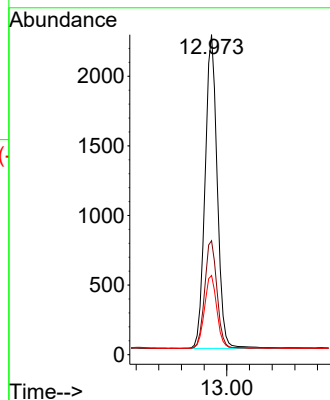
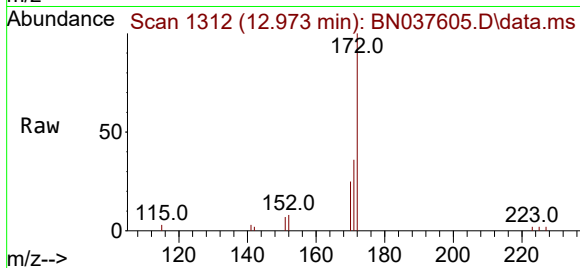
MW-17B-55.5-081225MS

Tgt Ion:	172	Resp:	445
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.4
170	24.7	19.2	28.8

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#16

Acenaphthylene

Concen: 0.363 ng

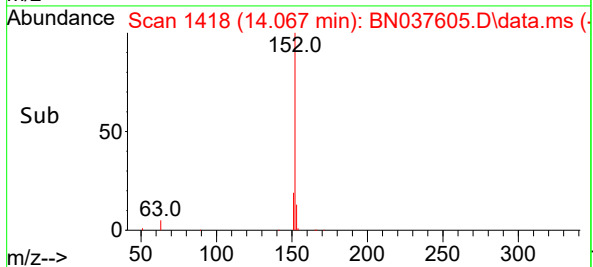
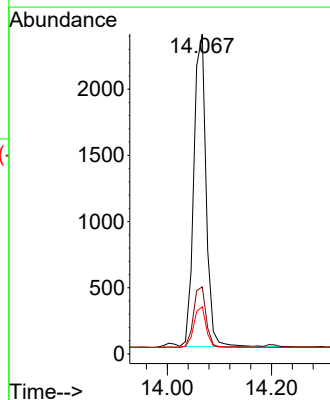
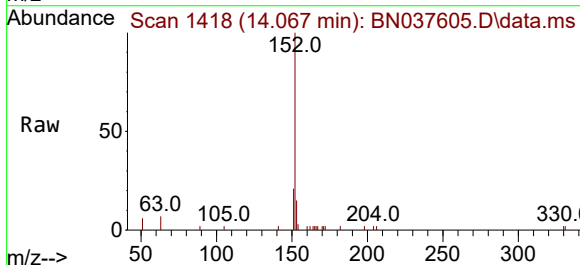
RT: 14.067 min Scan# 1418

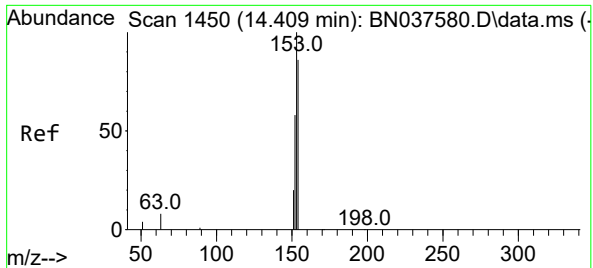
Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

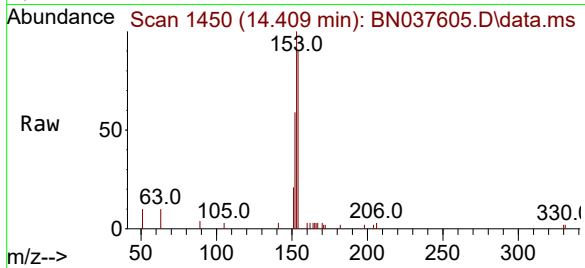
Tgt Ion:	152	Resp:	3870
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.1	24.1
153	13.5	10.7	16.1





#17
Acenaphthene
Concen: 0.341 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

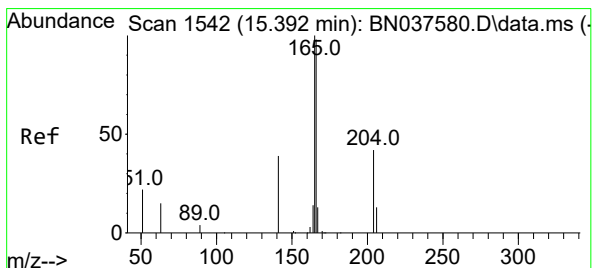
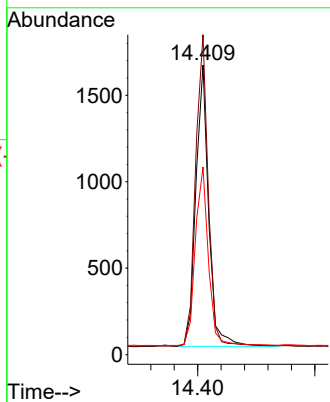
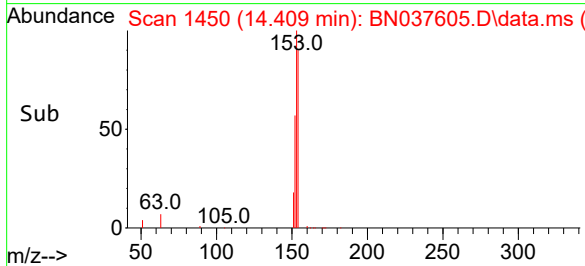
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion:154 Resp: 247
Ion Ratio Lower Upper
154 100
153 109.5 90.6 135.8
152 65.1 54.9 82.3

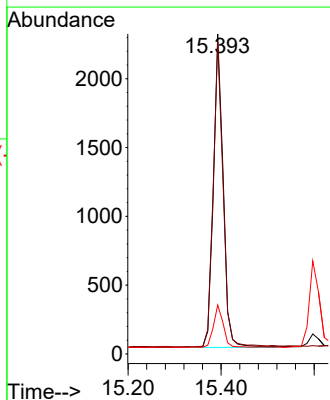
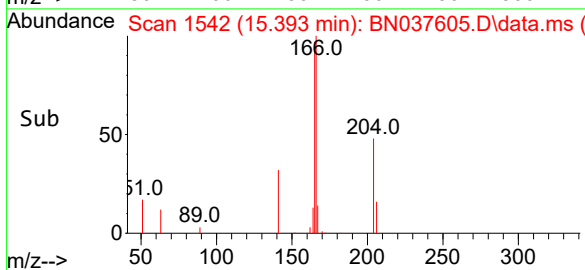
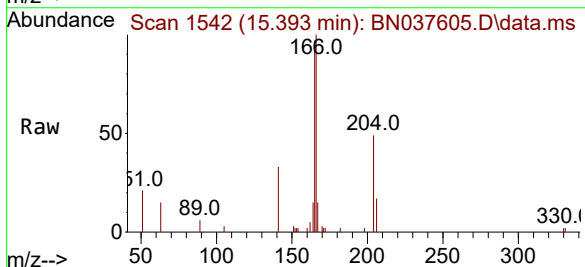
Manual Integrations
APPROVED

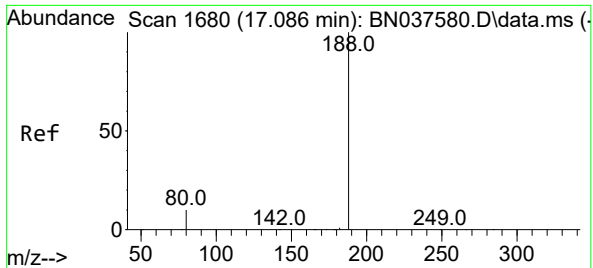
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#18
Fluorene
Concen: 0.352 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:166 Resp: 3340
Ion Ratio Lower Upper
166 100
165 97.2 78.9 118.3
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS

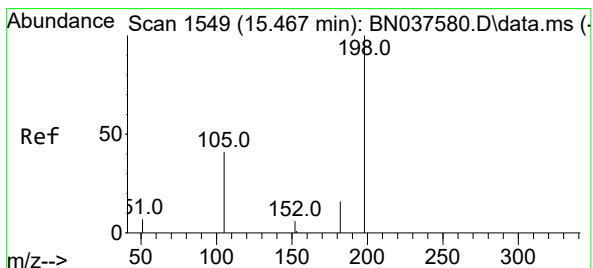
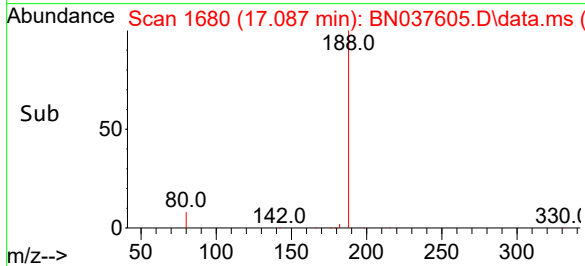
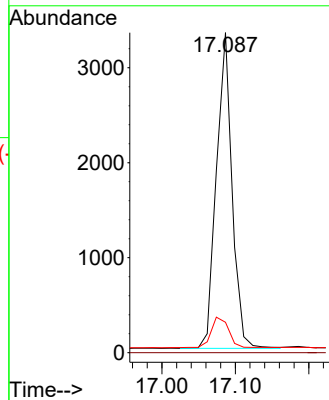
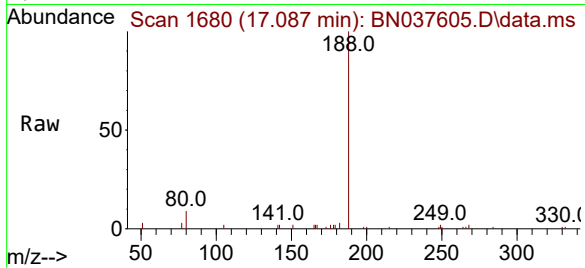
Tgt Ion:	188	Resp:	492
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.5	9.1	13.7

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.434 ng

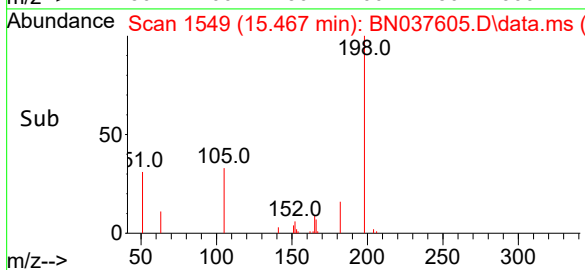
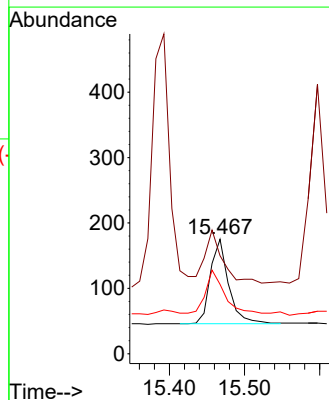
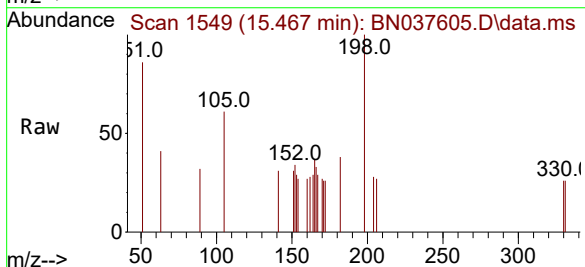
RT: 15.467 min Scan# 1549

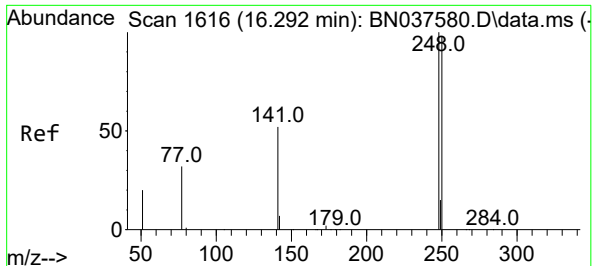
Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

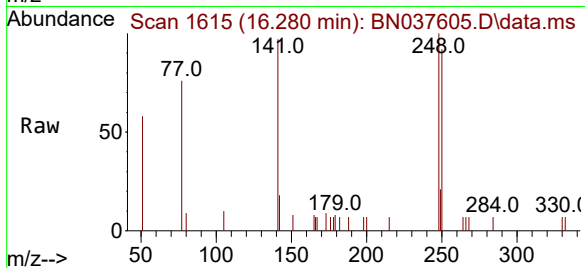
Tgt Ion:	198	Resp:	226
Ion Ratio	Lower	Upper	
198	100		
51	85.7	81.0	121.6
105	60.6	52.5	78.7





#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

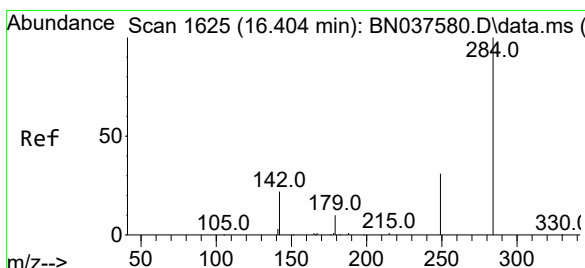
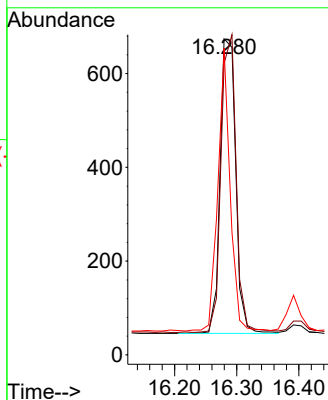
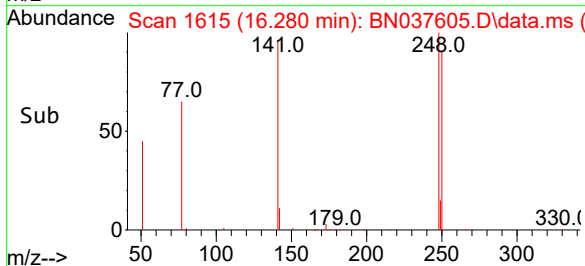
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion:248 Resp: 1089
Ion Ratio Lower Upper
248 100
250 92.3 78.6 118.0
141 97.0 43.7 65.5

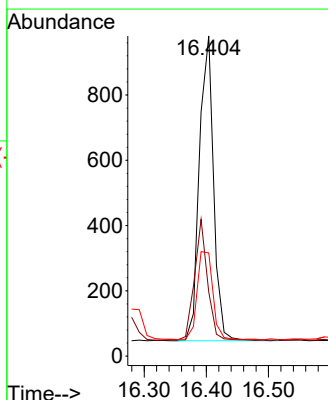
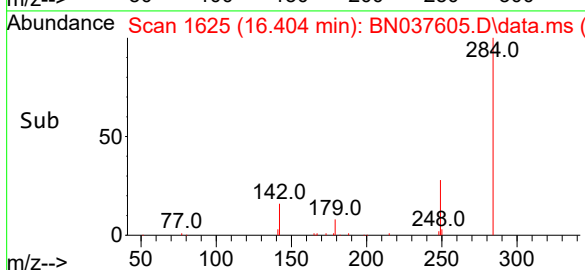
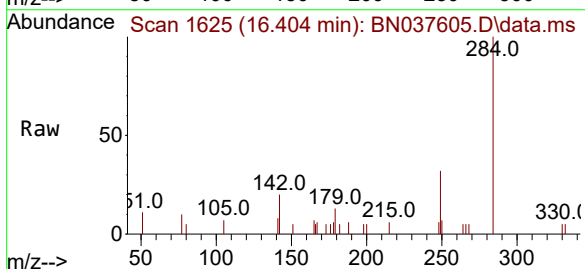
Manual Integrations
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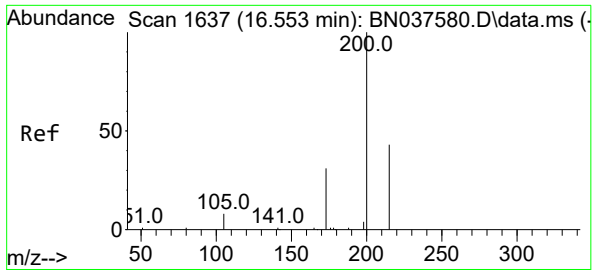
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#22
Hexachlorobenzene
Concen: 0.340 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

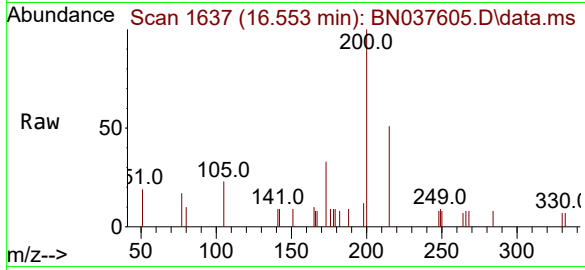
Tgt Ion:284 Resp: 1490
Ion Ratio Lower Upper
284 100
142 37.3 29.8 44.6
249 32.0 26.0 39.0





#23
Atrazine
Concen: 0.456 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

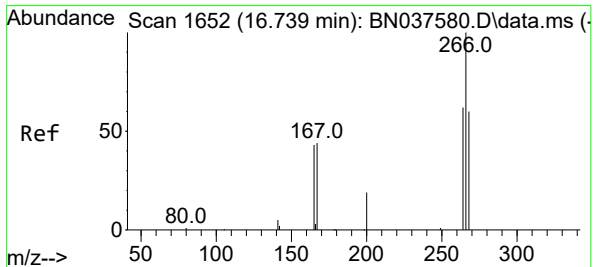
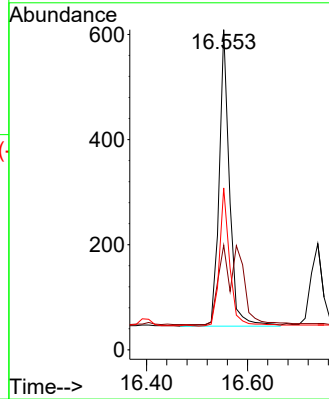
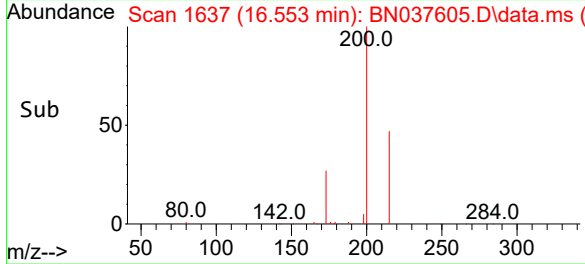
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion:200 Resp: 79
Ion Ratio Lower Upper
200 100
173 32.7 31.0 46.4
215 50.6 39.4 59.0

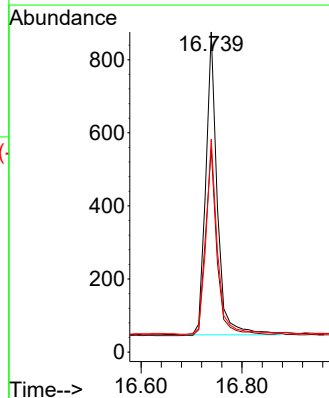
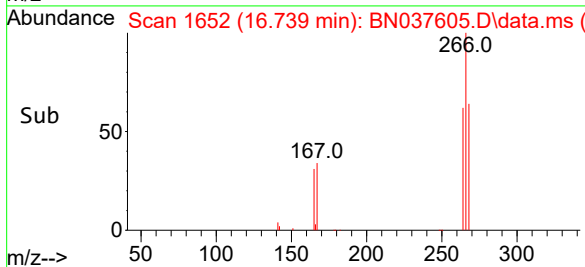
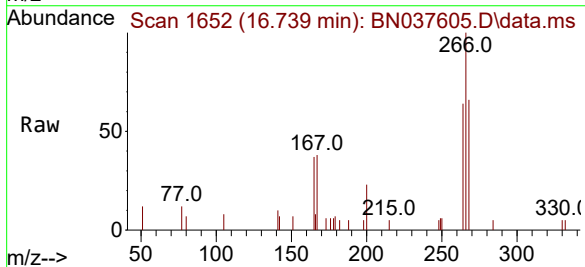
Manual Integrations
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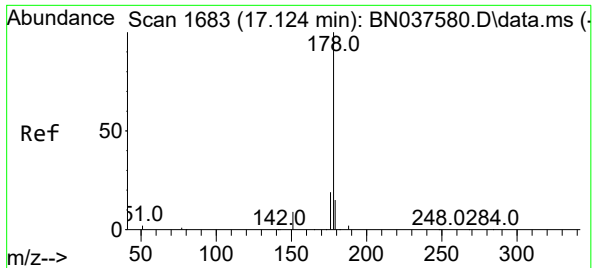
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#24
Pentachlorophenol
Concen: 0.857 ng
RT: 16.739 min Scan# 1652
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:266 Resp: 1320
Ion Ratio Lower Upper
266 100
264 62.0 49.6 74.4
268 63.6 49.2 73.8





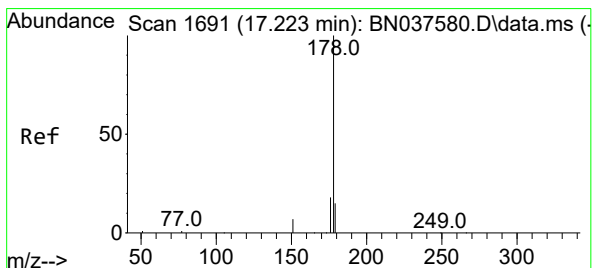
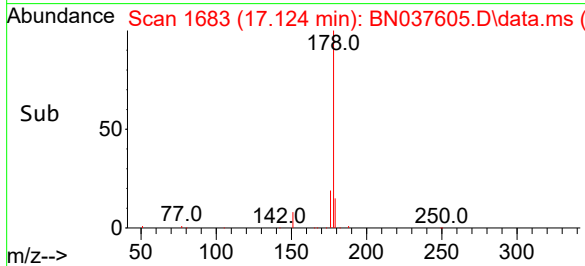
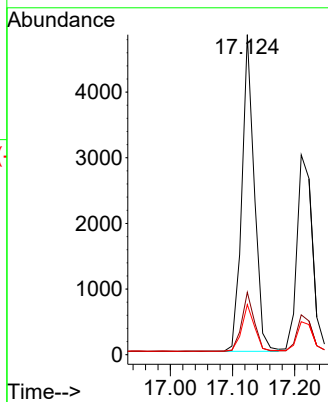
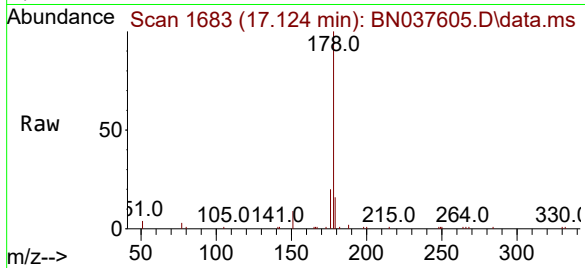
#25
Phenanthrene
Concen: 0.449 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

Tgt Ion:178 Resp: 6725
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.1 12.3 18.5

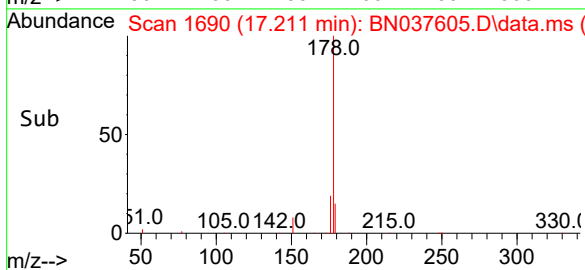
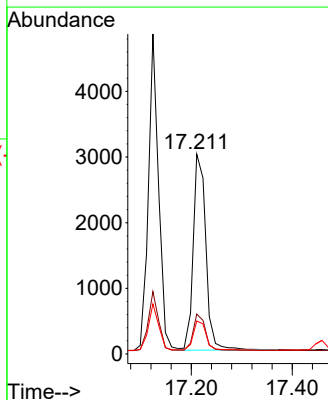
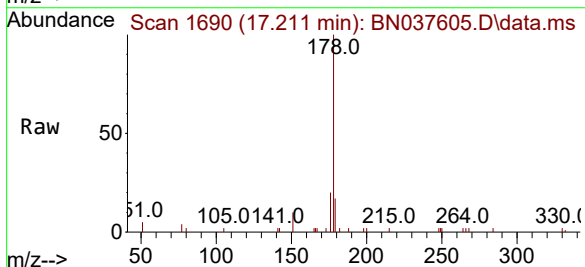
Manual Integrations
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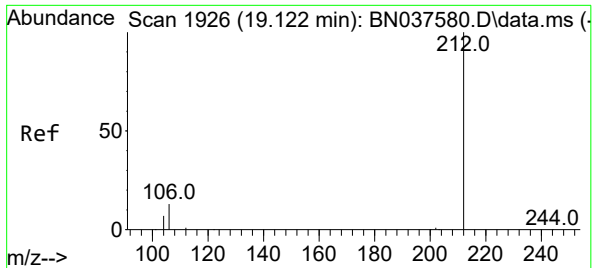
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#26
Anthracene
Concen: 0.393 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

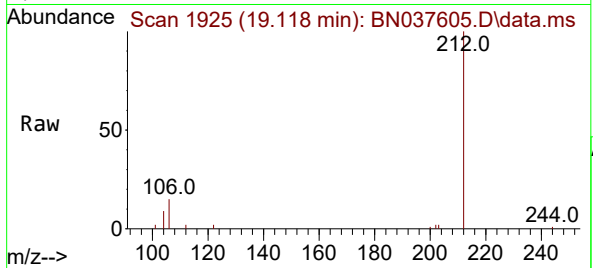
Tgt Ion:178 Resp: 5205
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.5 12.3 18.5





#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.118 min Scan# 1925
Delta R.T. -0.004 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

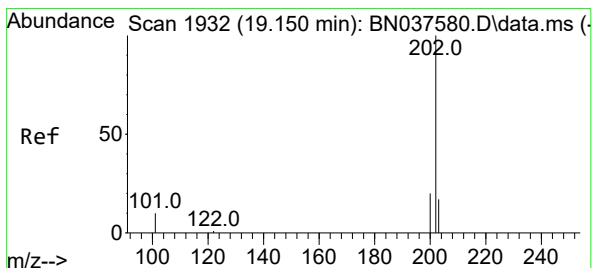
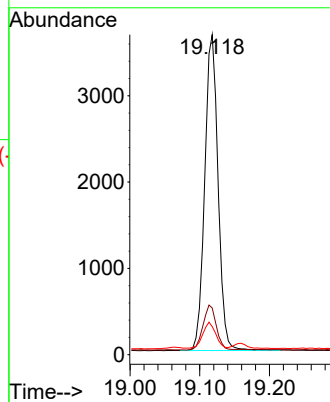
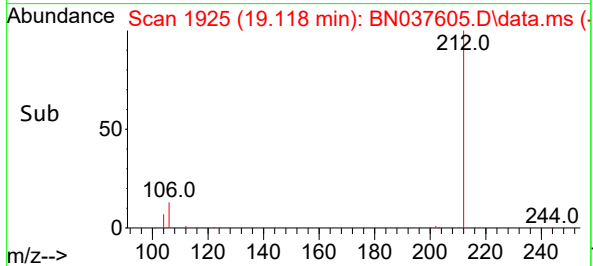
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



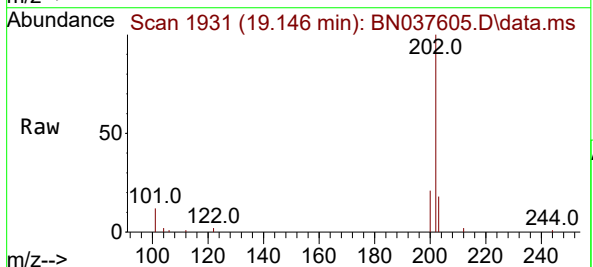
Tgt Ion: 212 Resp: 4870
Ion Ratio Lower Upper
212 100
106 14.4 11.5 17.3
104 8.1 6.6 9.8

Manual Integrations
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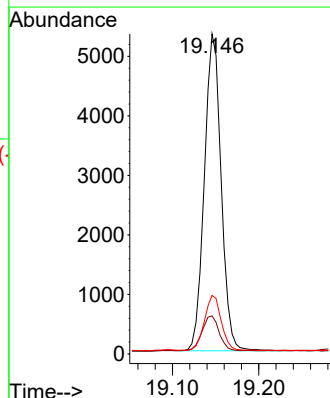
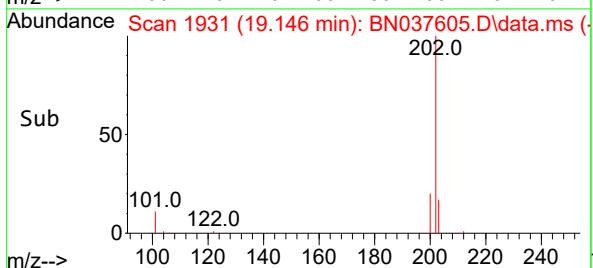
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

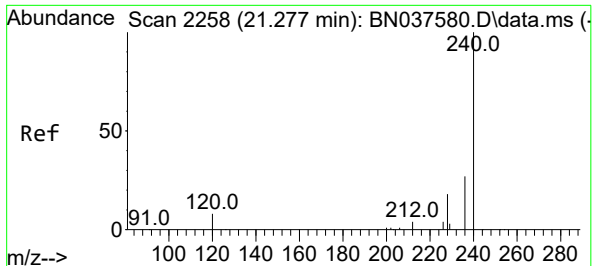


#28
Fluoranthene
Concen: 0.420 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40



Tgt Ion: 202 Resp: 7212
Ion Ratio Lower Upper
202 100
101 11.4 9.0 13.6
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

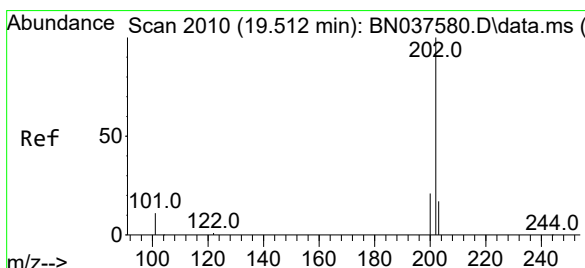
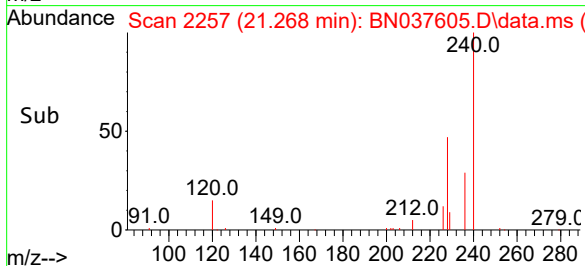
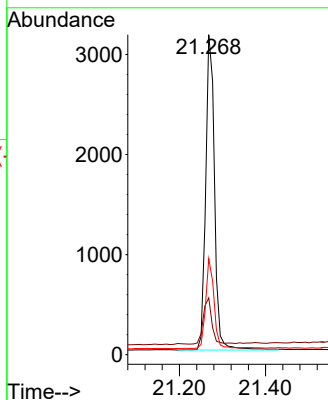
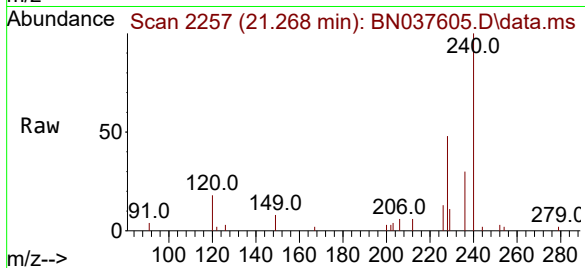
MW-17B-55.5-081225MS

Tgt Ion:	240	Resp:	450
Ion Ratio	Lower	Upper	
240	100		
120	17.8	8.9	13.3
236	30.0	22.6	33.8

Manual Integrations
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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#30

Pyrene

Concen: 0.415 ng

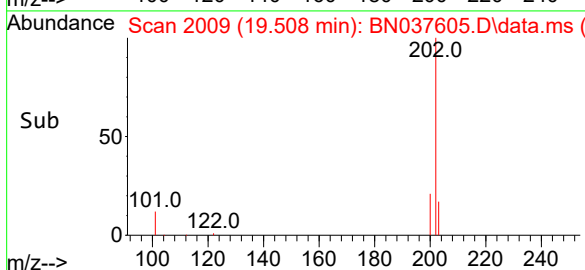
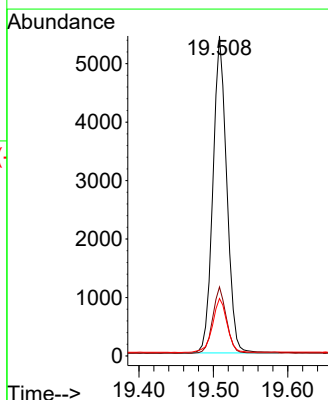
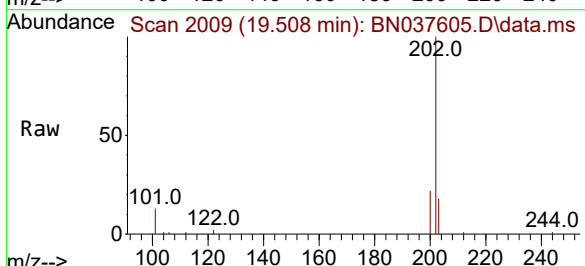
RT: 19.508 min Scan# 2009

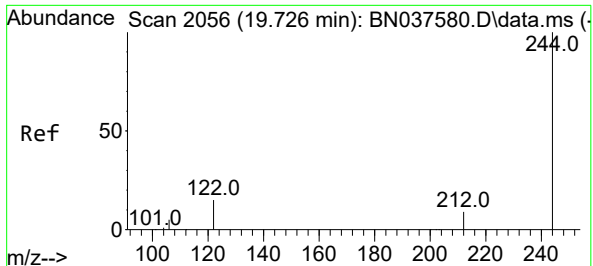
Delta R.T. -0.004 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

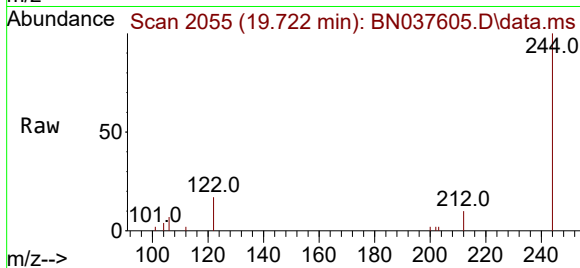
Tgt Ion:	202	Resp:	6994
Ion Ratio	Lower	Upper	
202	100		
200	20.6	16.6	25.0
203	17.9	14.3	21.5





#31
Terphenyl-d14
Concen: 0.468 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

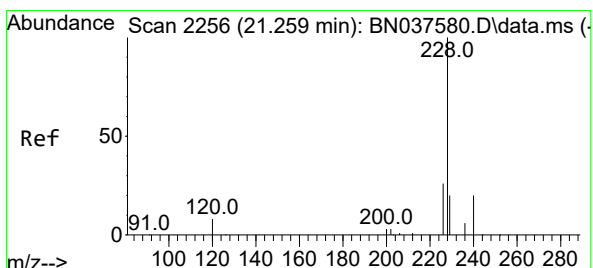
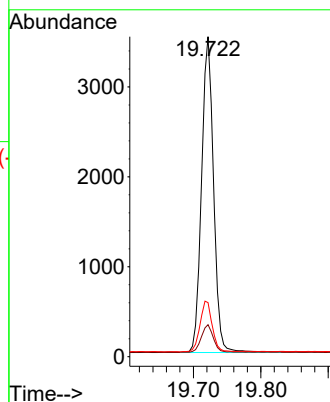
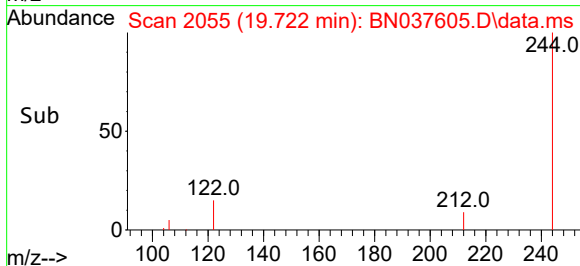
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS



Tgt Ion:244 Resp: 4344
Ion Ratio Lower Upper
244 100
212 10.0 8.2 12.2
122 16.9 13.2 19.8

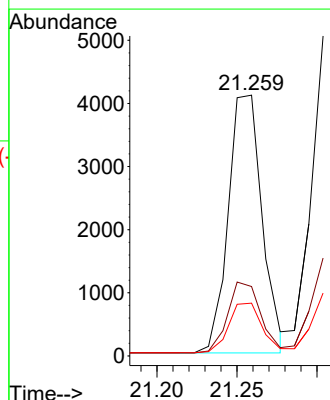
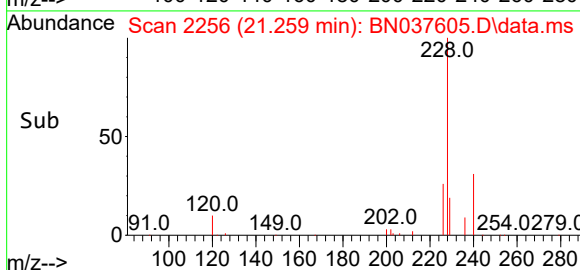
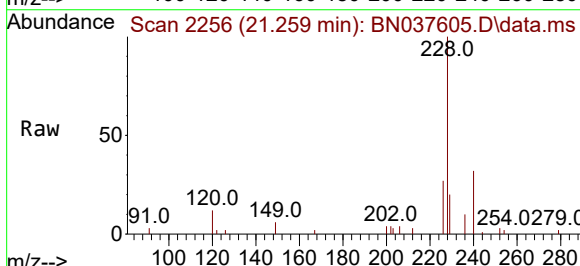
Manual Integrations
APPROVED

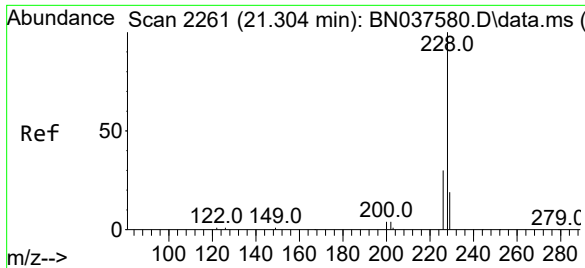
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#32
Benzo(a)anthracene
Concen: 0.400 ng
RT: 21.259 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:228 Resp: 6028
Ion Ratio Lower Upper
228 100
226 26.6 21.5 32.3
229 20.2 16.5 24.7





#33

Chrysene

Concen: 0.399 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037605.D

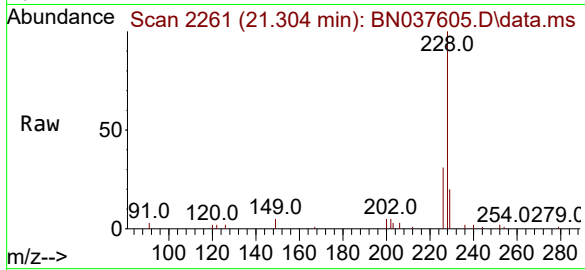
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion:228 Resp: 6700

Ion Ratio Lower Upper

228 100

226 30.6 24.9 37.3

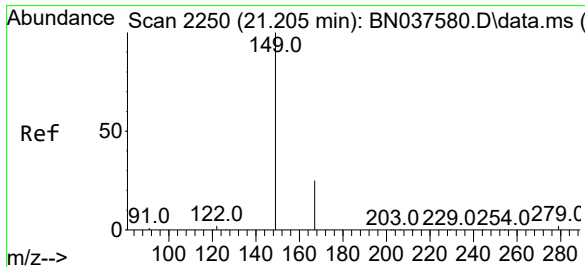
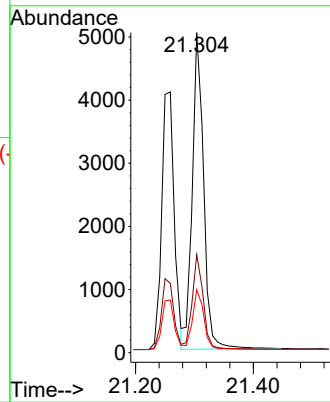
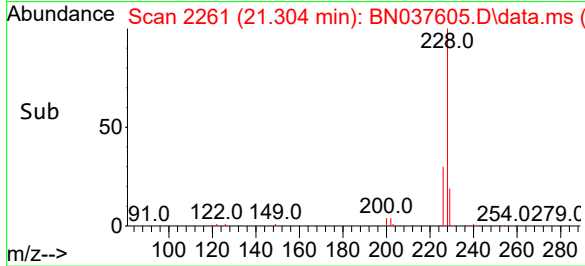
229 19.7 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.550 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

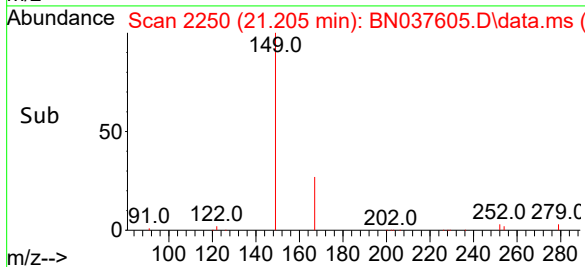
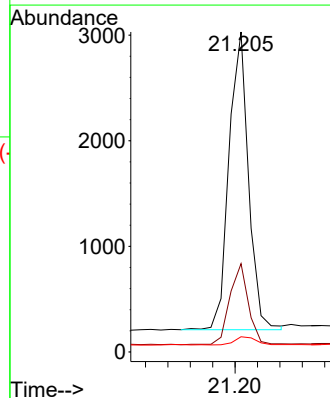
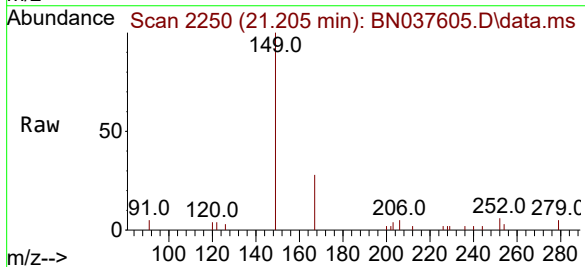
Tgt Ion:149 Resp: 3417

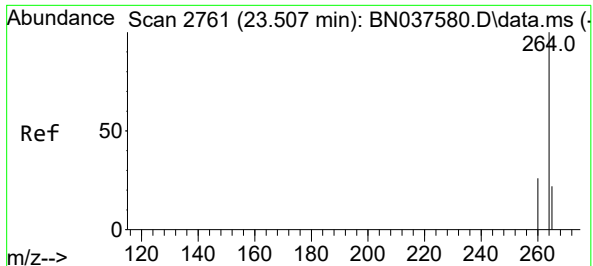
Ion Ratio Lower Upper

149 100

167 26.4 20.5 30.7

279 3.0 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037605.D

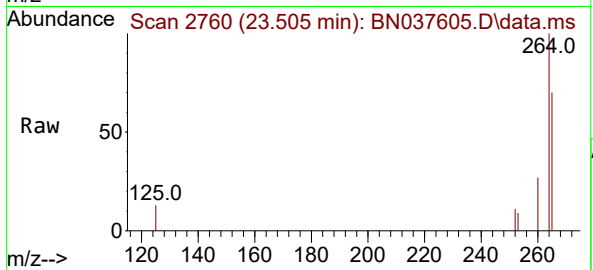
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion:264 Resp: 3909

Ion Ratio Lower Upper

264 100

260 26.9 21.6 32.4

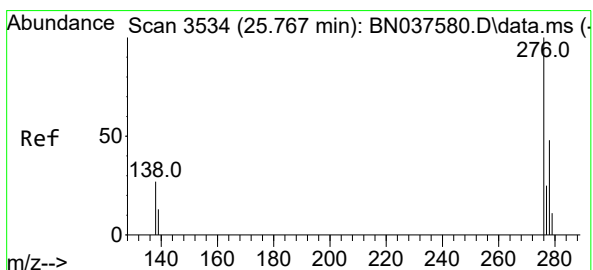
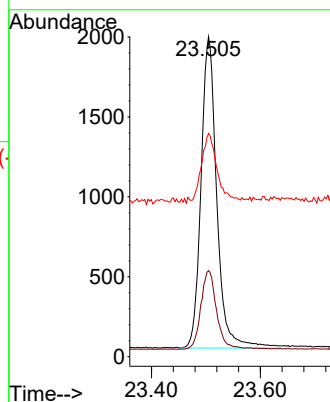
265 69.7 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.372 ng

RT: 25.759 min Scan# 3531

Delta R.T. -0.008 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

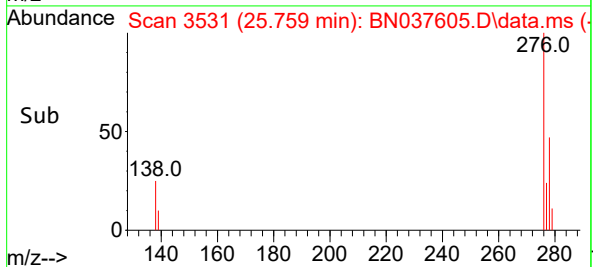
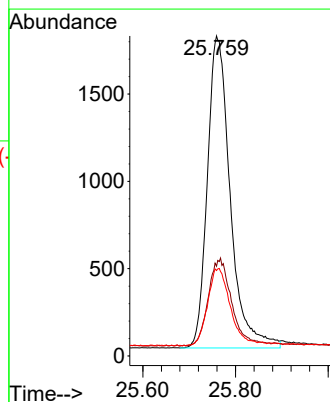
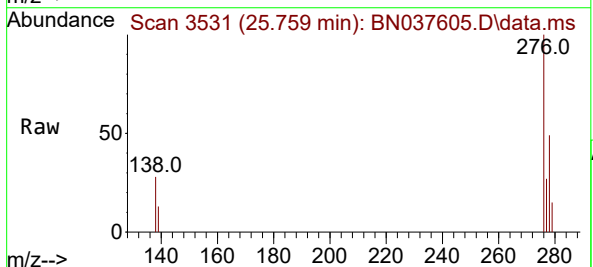
Tgt Ion:276 Resp: 6122

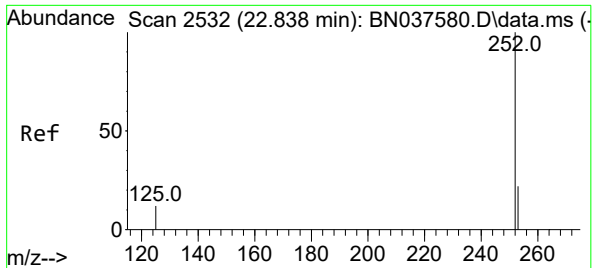
Ion Ratio Lower Upper

276 100

138 28.7 23.3 34.9

277 24.6 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.411 ng

RT: 22.832 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037605.D

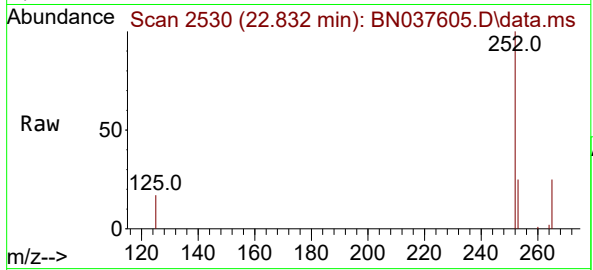
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion:252 Resp: 6094

Ion Ratio Lower Upper

252 100

253 24.8 20.0 30.0

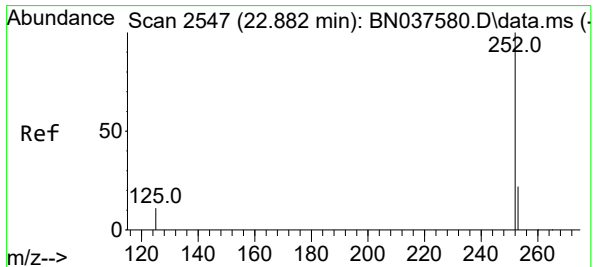
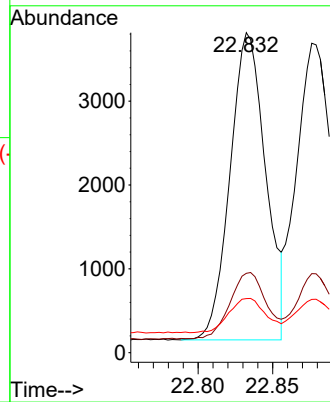
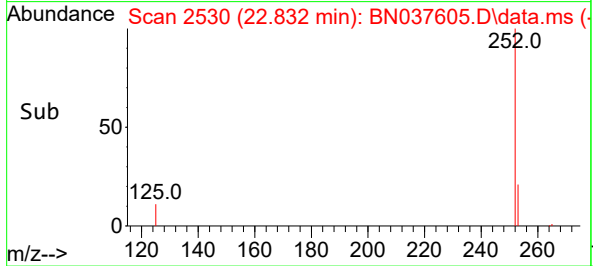
125 16.9 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#38

Benzo(k)fluoranthene

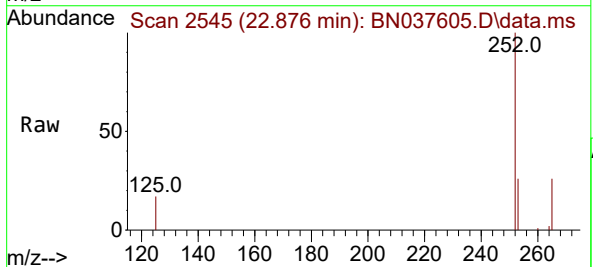
Concen: 0.374 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40



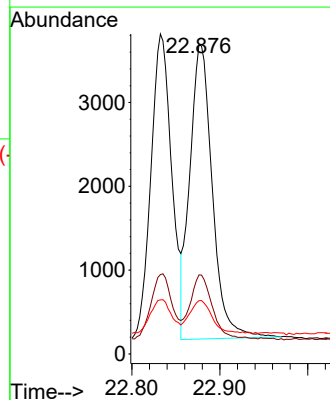
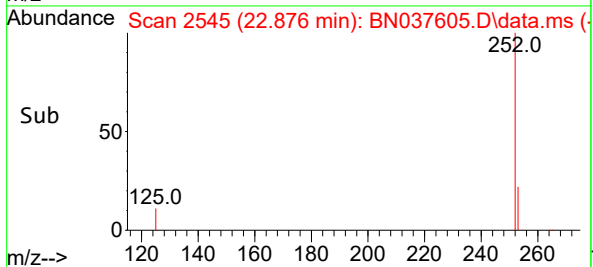
Tgt Ion:252 Resp: 6247

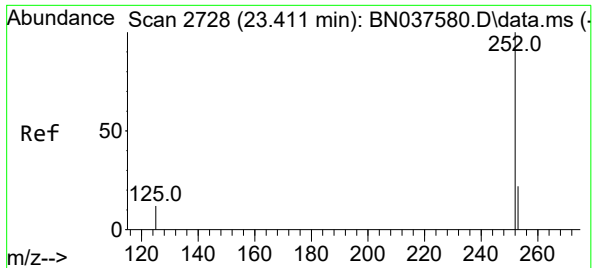
Ion Ratio Lower Upper

252 100

253 25.5 19.9 29.9

125 17.2 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.411 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS

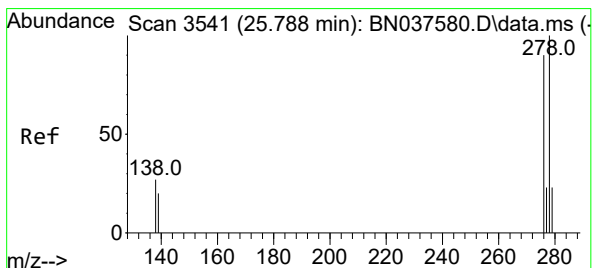
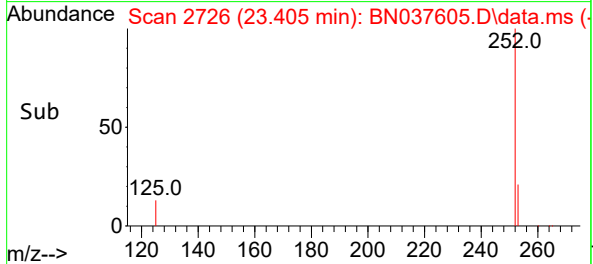
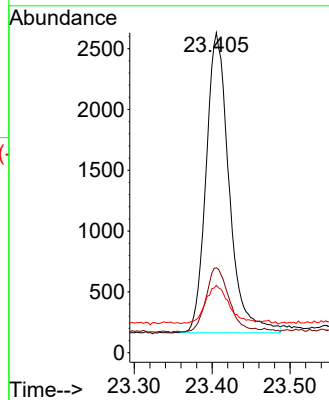
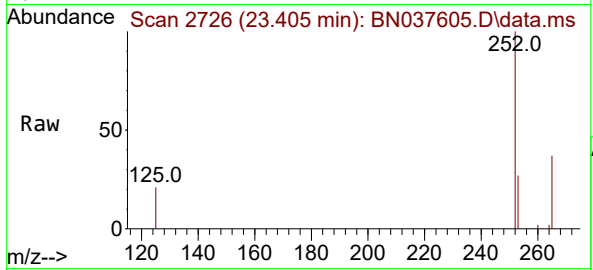
Tgt Ion:	252	Resp:	5054
Ion Ratio	Lower	Upper	
252	100		
253	26.5	21.6	32.4
125	21.0	16.8	25.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.368 ng

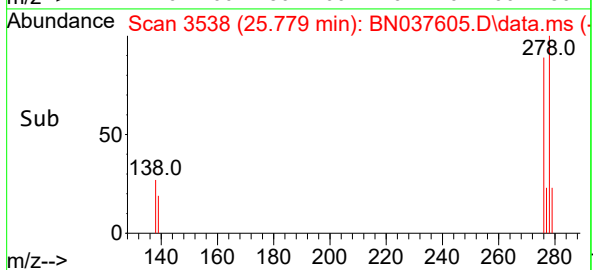
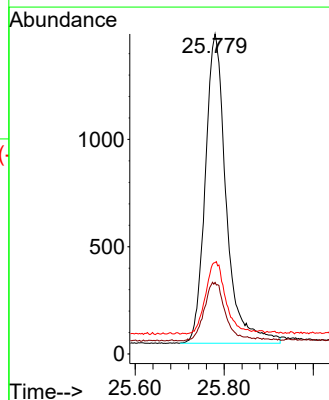
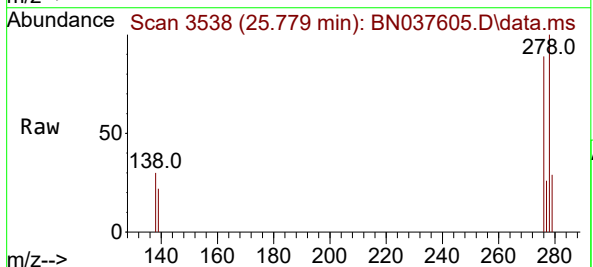
RT: 25.779 min Scan# 3538

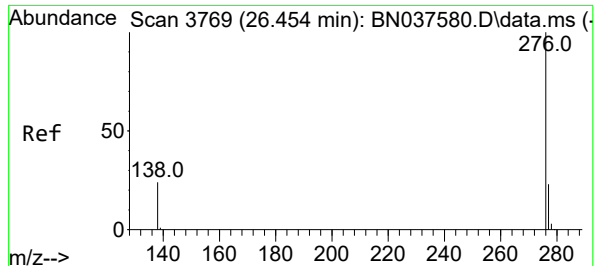
Delta R.T. -0.009 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Tgt Ion:	278	Resp:	4709
Ion Ratio	Lower	Upper	
278	100		
139	22.3	18.3	27.5
279	28.6	22.5	33.7





#41

Benzo(g,h,i)perylene

Concen: 0.391 ng

RT: 26.449 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037605.D

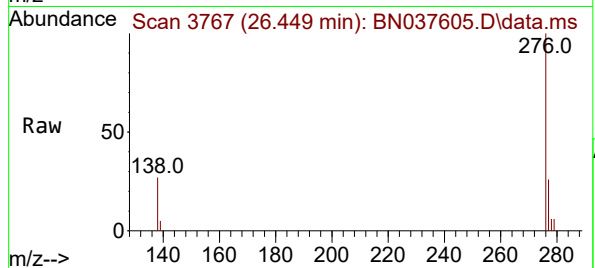
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion: 276 Resp: 5269

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

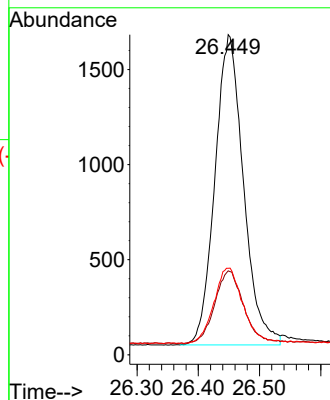
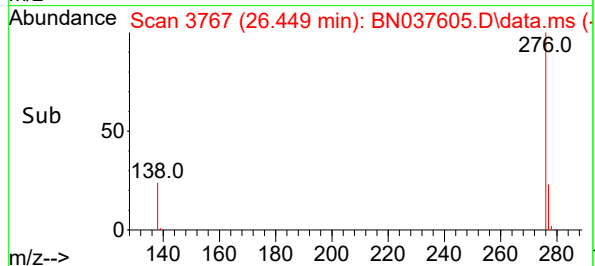
138 27.0 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/12/25
Client Sample ID:	MW-17B-55.5-08122025MSD	SDG No.:	Q2881
Lab Sample ID:	Q2842-05MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 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
BN037606.D	1	08/18/25 08:41	08/19/25 14:17	PB169286

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	3.00		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2020	7.717				
1146-65-2	Naphthalene-d8	4840	10.498				
15067-26-2	Acenaphthene-d10	2410	14.344				
1517-22-2	Phenanthrene-d10	5010	17.086				
1719-03-5	Chrysene-d12	4560	21.267				
1520-96-3	Perylene-d12	3940	23.504				

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\BN081925\
 Data File : BN037606.D
 Acq On : 19 Aug 2025 14:17
 Operator : RC/JU
 Sample : Q2842-05MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/20/2025
 Supervised By :Jagrut Upadhyay 08/20/2025

Quant Time: Aug 20 01:26:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2022	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4839	0.400	ng	0.00
13) Acenaphthene-d10	14.344	164	2406	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5009	0.400	ng	0.00
29) Chrysene-d12	21.267	240	4561	0.400	ng	# 0.00
35) Perylene-d12	23.504	264	3935	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.304	112	713	0.156	ng	0.00
5) Phenol-d6	6.879	99	499	0.090	ng	0.00
8) Nitrobenzene-d5	8.853	82	1080	0.317	ng	0.00
11) 2-Methylnaphthalene-d10	12.090	152	1993m	0.303	ng	0.00
14) 2,4,6-Tribromophenol	15.832	330	401	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	4509	0.324	ng	0.00
27) Fluoranthene-d10	19.117	212	4894	0.371	ng	0.00
31) Terphenyl-d14	19.721	244	4395	0.468	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	5537	2.862	ng	# 92
3) n-Nitrosodimethylamine	3.535	42	412	0.167	ng	# 94
6) bis(2-Chloroethyl)ether	7.139	93	1634	0.329	ng	97
9) Naphthalene	10.540	128	4289	0.333	ng	98
10) Hexachlorobutadiene	10.850	225	911	0.289	ng	# 99
12) 2-Methylnaphthalene	12.161	142	2410	0.298	ng	100
16) Acenaphthylene	14.066	152	3852	0.357	ng	100
17) Acenaphthene	14.408	154	2466	0.336	ng	98
18) Fluorene	15.392	166	3360	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	237	0.441	ng	90
21) 4-Bromophenyl-phenylether	16.292	248	1112	0.353	ng	# 90
22) Hexachlorobenzene	16.403	284	1477	0.331	ng	98
23) Atrazine	16.552	200	799	0.449	ng	96
24) Pentachlorophenol	16.738	266	1294	0.826	ng	97
25) Phenanthrene	17.123	178	6750	0.443	ng	100
26) Anthracene	17.210	178	5136	0.381	ng	99
28) Fluoranthene	19.145	202	7312	0.418	ng	100
30) Pyrene	19.508	202	7072	0.415	ng	99
32) Benzo(a)anthracene	21.250	228	6132	0.402	ng	98
33) Chrysene	21.303	228	6692	0.394	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3509	0.558	ng	99
36) Indeno(1,2,3-cd)pyrene	25.761	276	6228	0.376	ng	98
37) Benzo(b)fluoranthene	22.832	252	6261	0.420	ng	100
38) Benzo(k)fluoranthene	22.876	252	6279	0.373	ng	98
39) Benzo(a)pyrene	23.405	252	5127	0.415	ng	99
40) Dibenzo(a,h)anthracene	25.776	278	4745	0.369	ng	99
41) Benzo(g,h,i)perylene	26.445	276	5431	0.401	ng	99

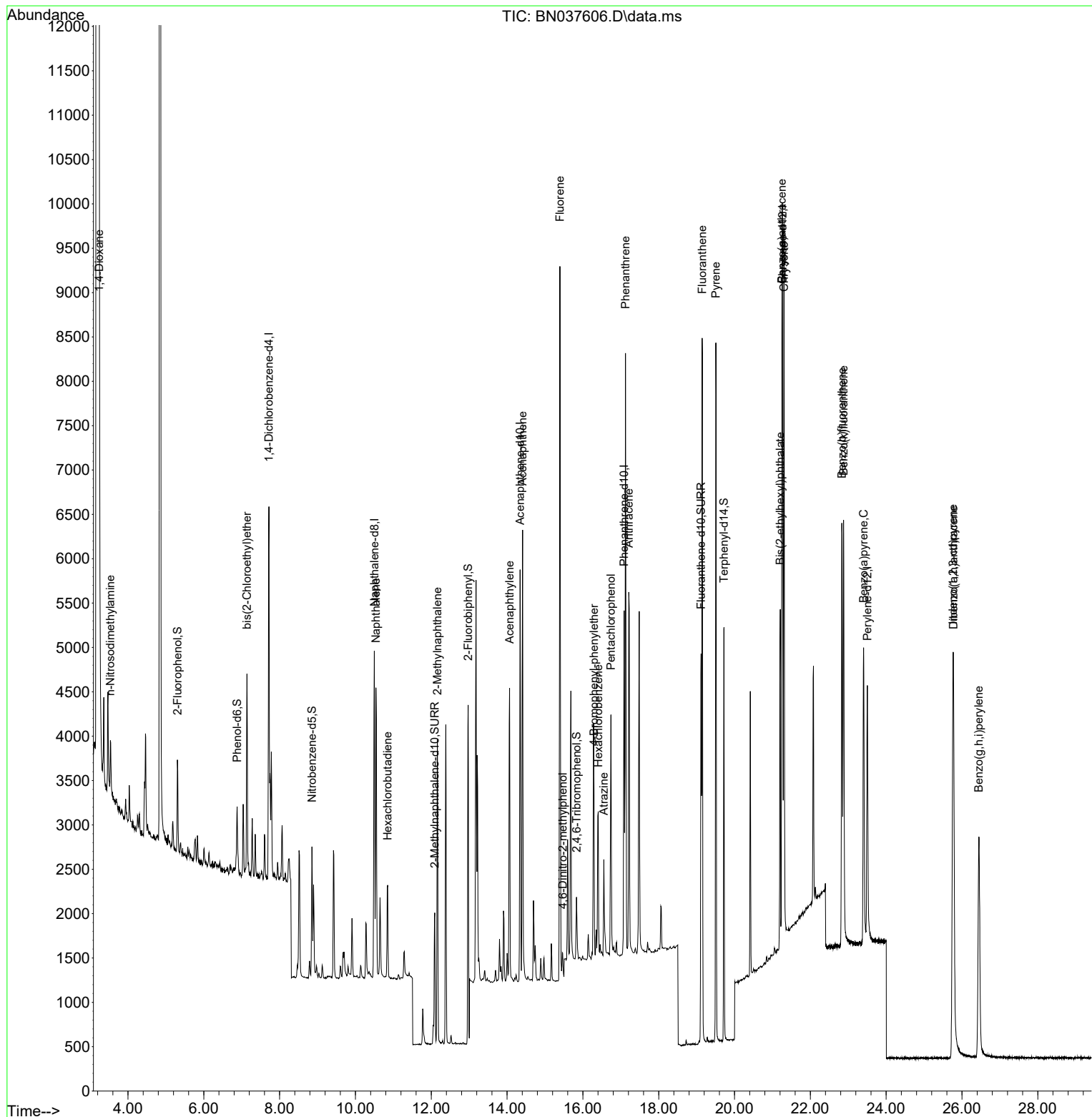
(#) = qualifier out of range (m) = manual integration (+) = signals summed

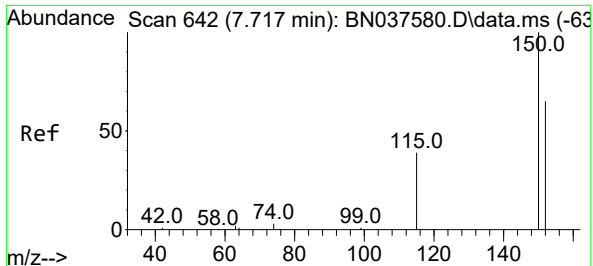
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

Quant Time: Aug 20 01:26:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

Manual Integrations

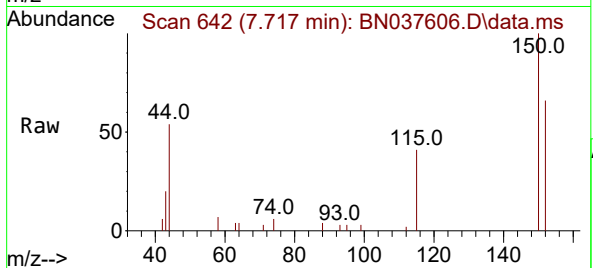
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 642
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

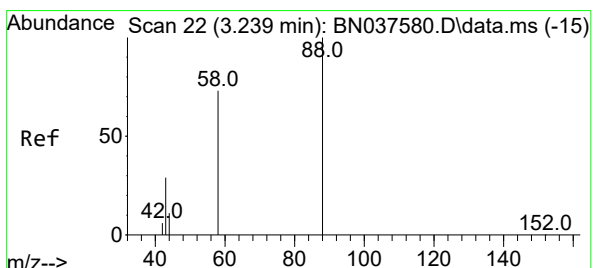
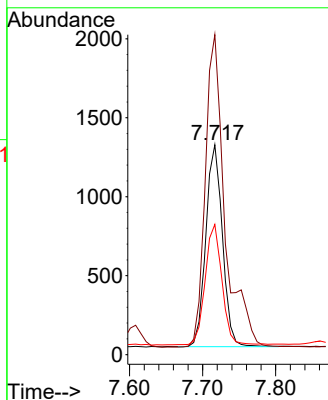
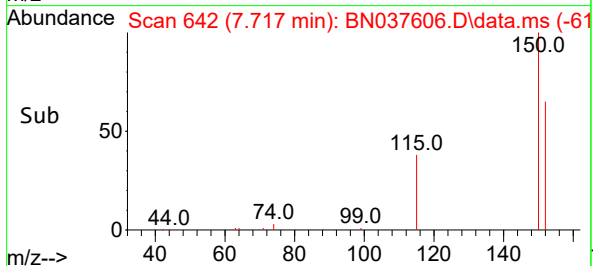
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion: 152 Resp: 2022
Ion Ratio Lower Upper
152 100
150 152.4 122.2 183.4
115 62.0 49.8 74.6

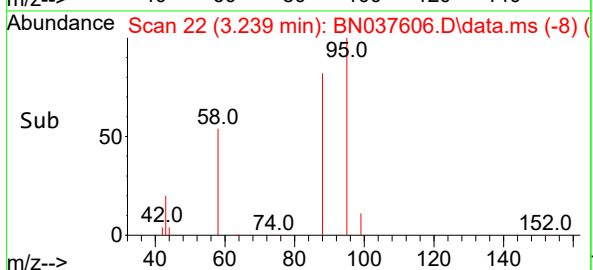
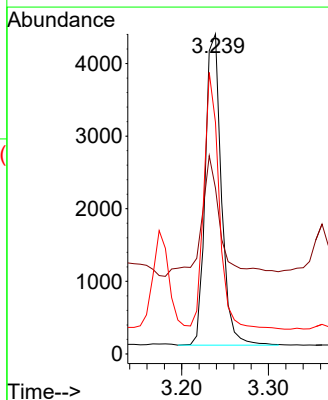
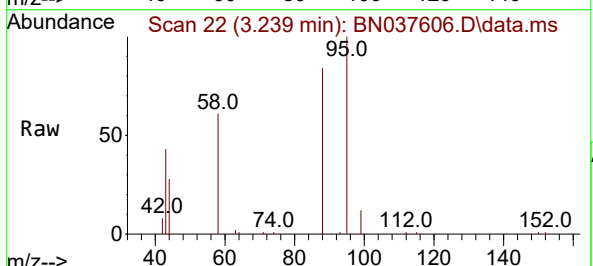
Manual Integrations
APPROVED

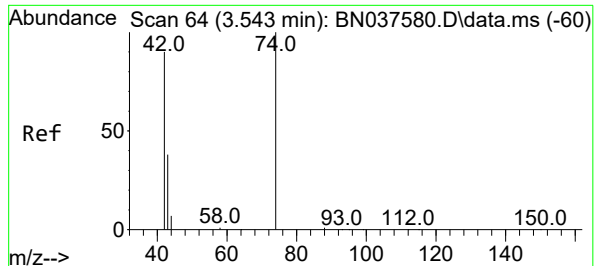
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#2
1,4-Dioxane
Concen: 2.862 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

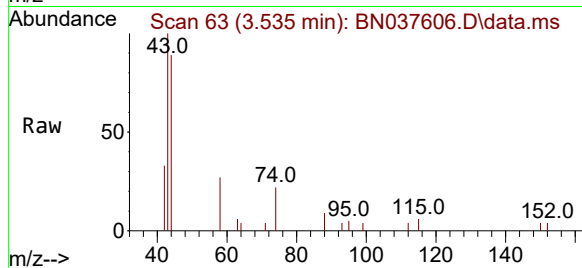
Tgt Ion: 88 Resp: 5537
Ion Ratio Lower Upper
88 100
43 47.0 25.8 38.6#
58 77.2 61.2 91.8





#3
n-Nitrosodimethylamine
Concen: 0.167 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

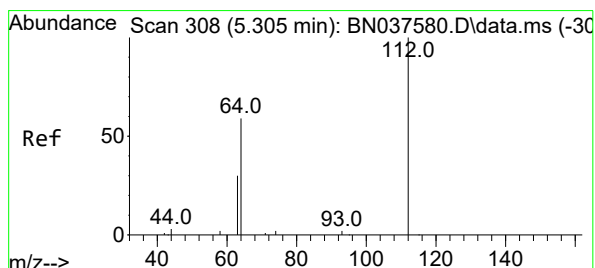
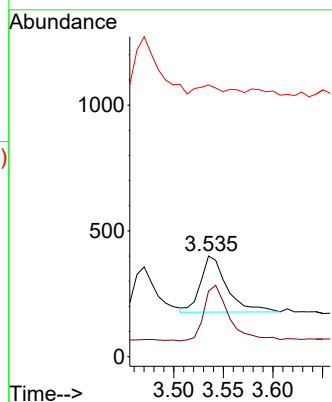
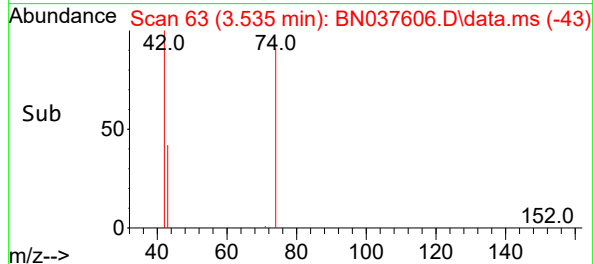
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion: 42 Resp: 412
Ion Ratio Lower Upper
42 100
74 97.1 82.0 123.0
44 16.7 7.9 11.9

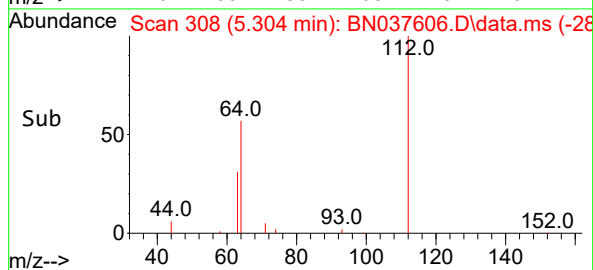
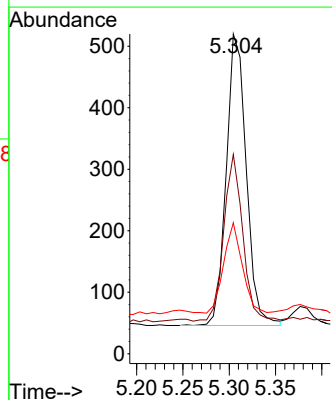
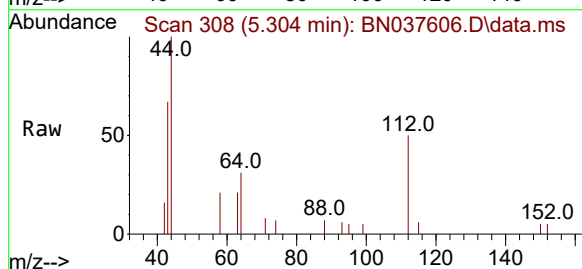
Manual Integrations
APPROVED

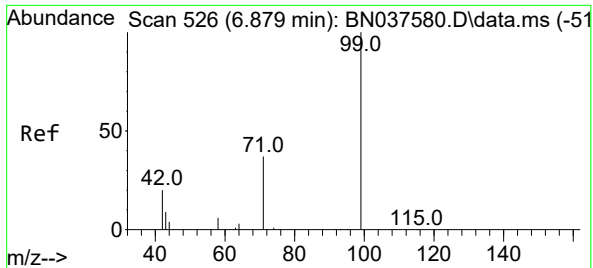
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#4
2-Fluorophenol
Concen: 0.156 ng
RT: 5.304 min Scan# 308
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

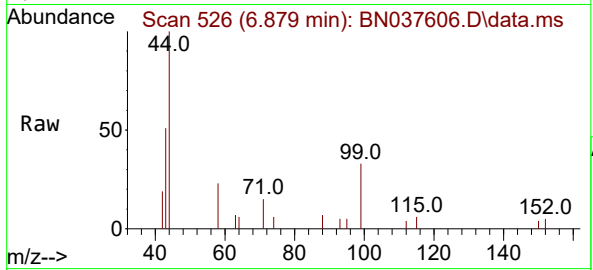
Tgt Ion:112 Resp: 713
Ion Ratio Lower Upper
112 100
64 54.3 44.9 67.3
63 29.5 23.4 35.2





#5
Phenol-d6
Concen: 0.090 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

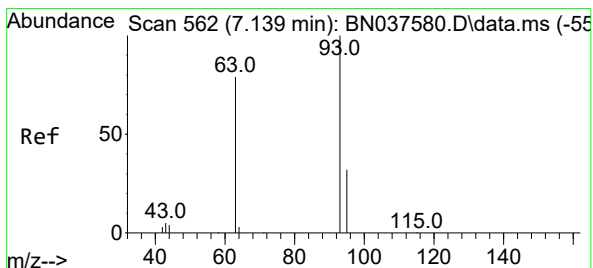
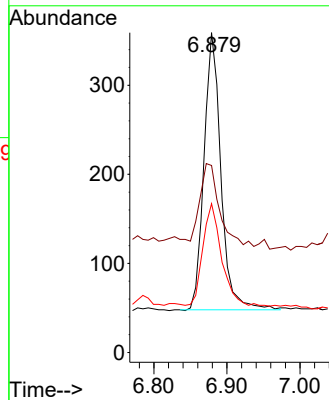
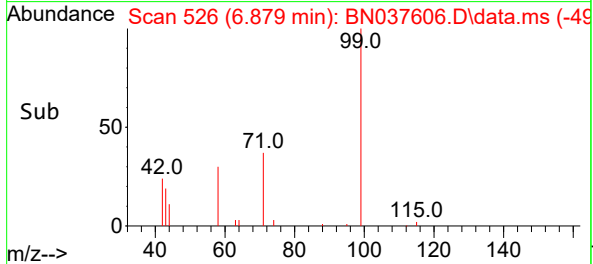
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion: 99 Resp: 499
Ion Ratio Lower Upper
99 100
42 35.1 18.5 27.7
71 41.1 28.6 42.8

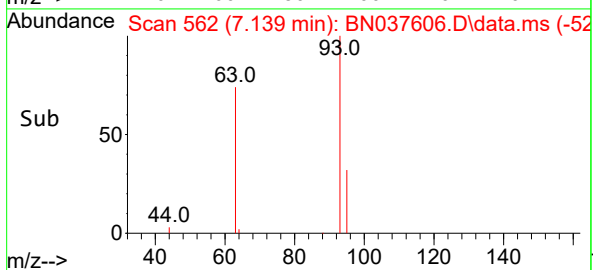
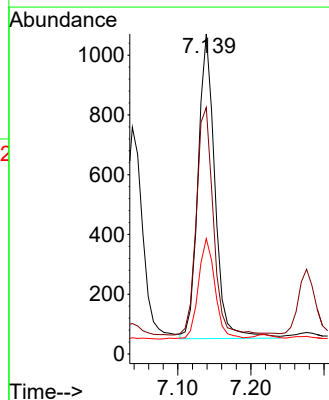
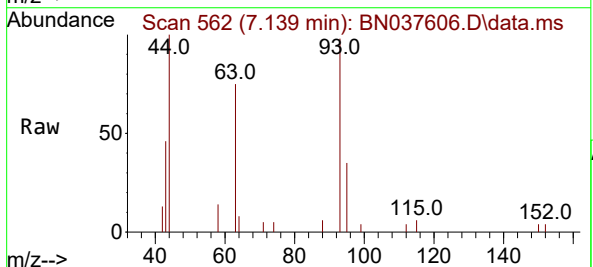
Manual Integrations
APPROVED

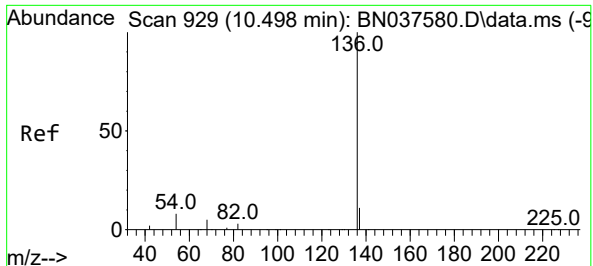
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.329 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

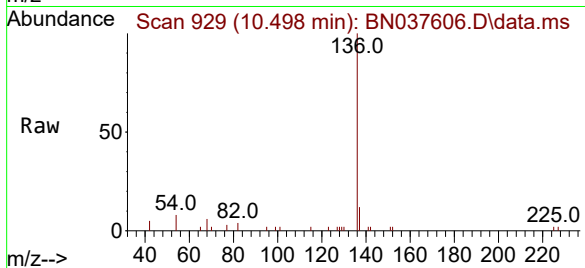
Tgt Ion: 93 Resp: 1634
Ion Ratio Lower Upper
93 100
63 75.2 58.0 87.0
95 32.4 24.9 37.3





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 929
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

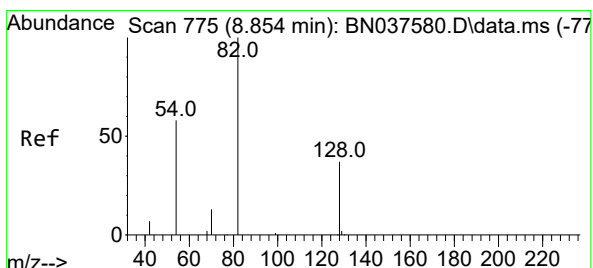
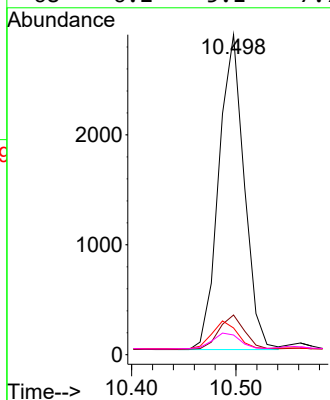
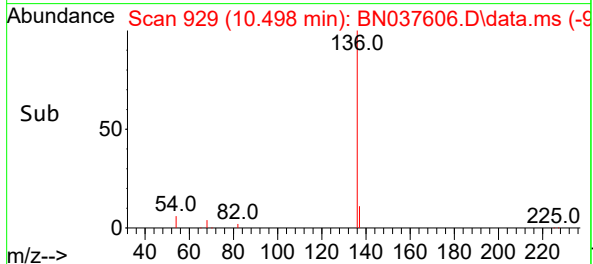
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.5	14.3
54	8.4	7.3	10.9
68	6.2	5.1	7.7

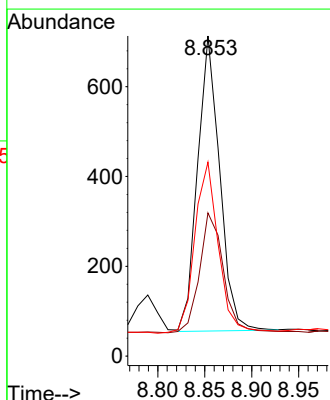
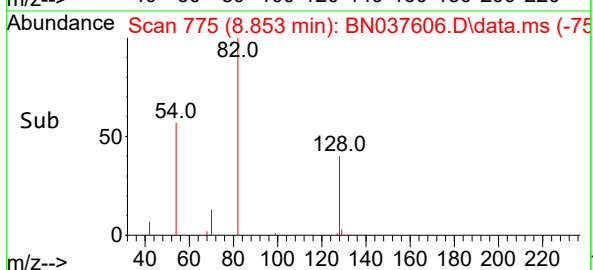
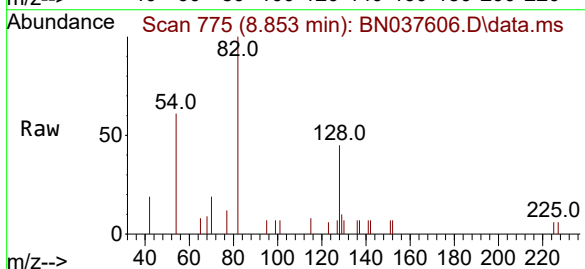
Manual Integrations
APPROVED

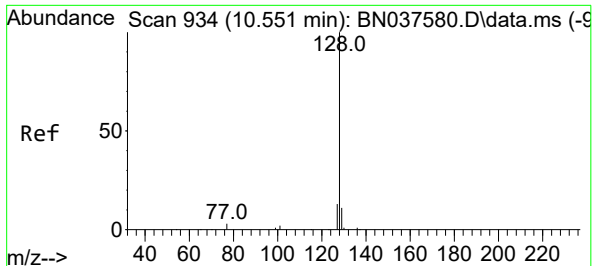
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 8.853 min Scan# 775
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.7	32.6	48.8
54	60.6	48.9	73.3





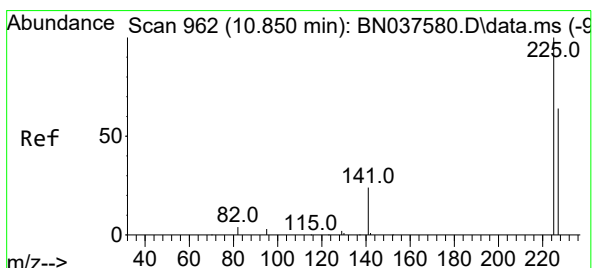
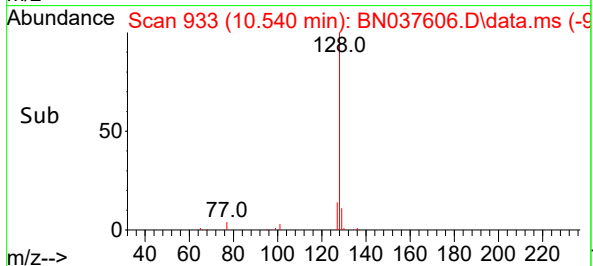
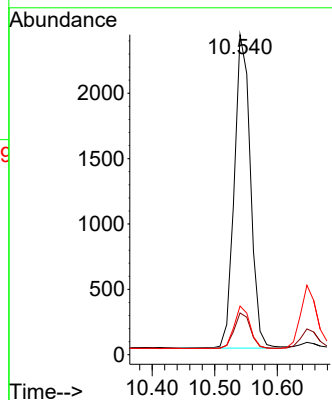
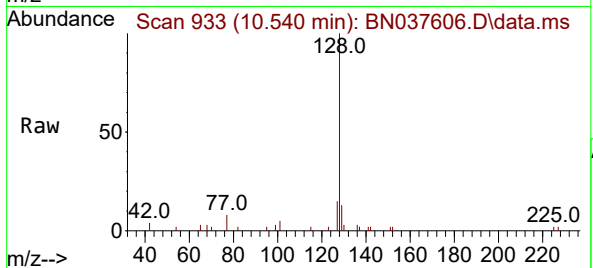
#9
Naphthalene
Concen: 0.333 ng
RT: 10.540 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

Tgt Ion:128 Resp: 4289
Ion Ratio Lower Upper
128 100
129 13.1 9.8 14.6
127 15.2 11.5 17.3

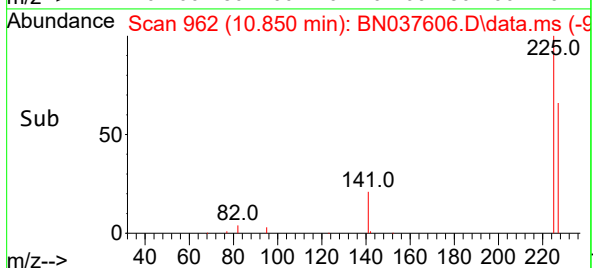
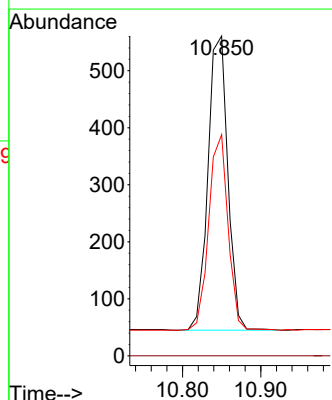
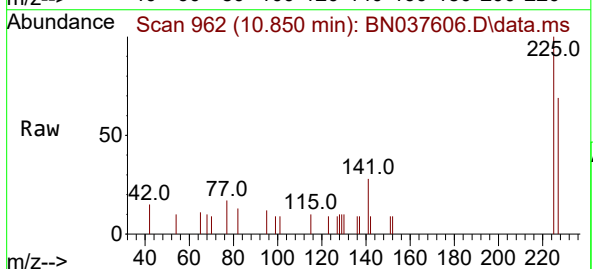
Manual Integrations
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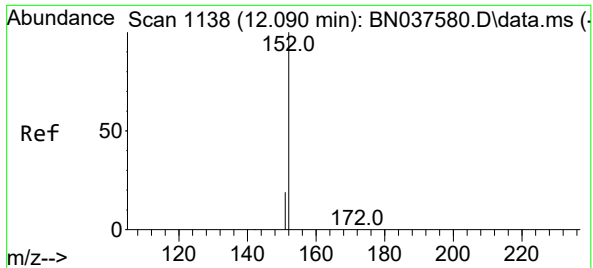
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#10
Hexachlorobutadiene
Concen: 0.289 ng
RT: 10.850 min Scan# 962
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

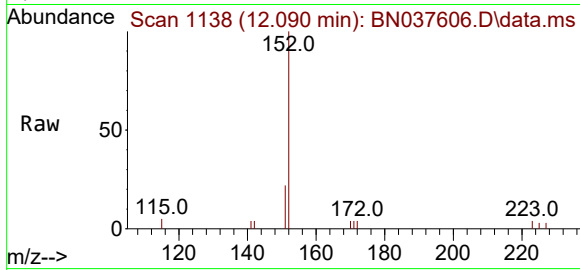
Tgt Ion:225 Resp: 911
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 50.8 76.2





#11
2-Methylnaphthalene-d10
Concen: 0.303 ng m
RT: 12.090 min Scan# 1138
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

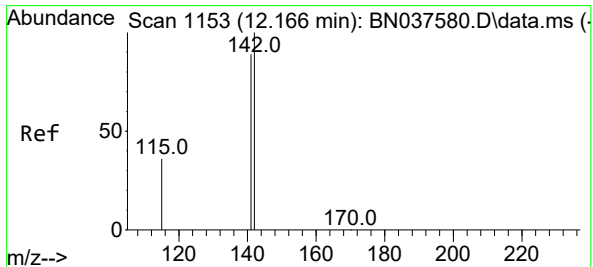
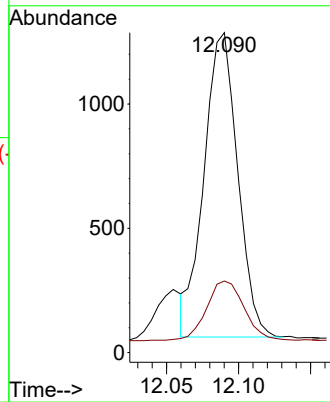
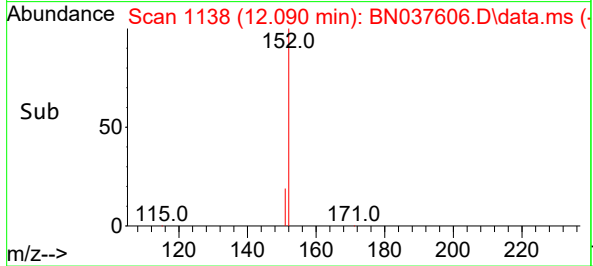
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion:152 Resp: 199
Ion Ratio Lower Upper
152 100
151 22.1 17.3 25.9

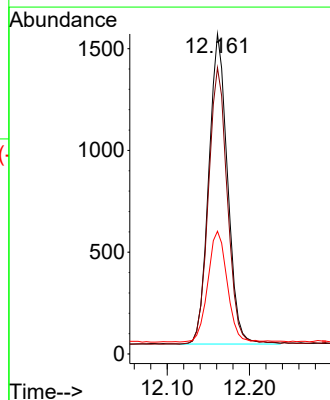
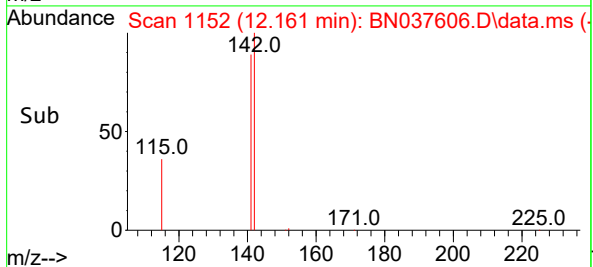
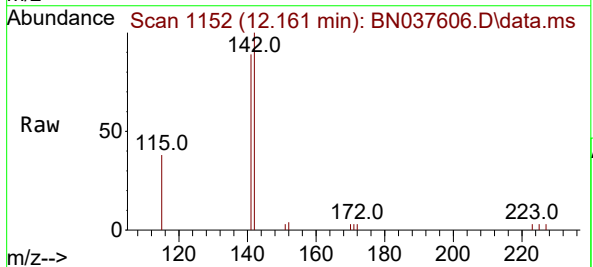
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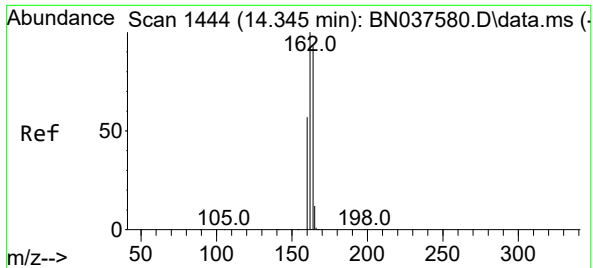
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#12
2-Methylnaphthalene
Concen: 0.298 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

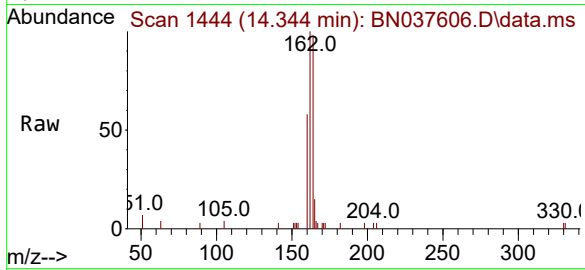
Tgt Ion:142 Resp: 2410
Ion Ratio Lower Upper
142 100
141 89.4 71.4 107.0
115 38.4 30.2 45.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.344 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

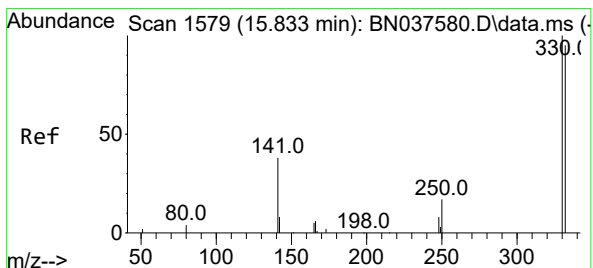
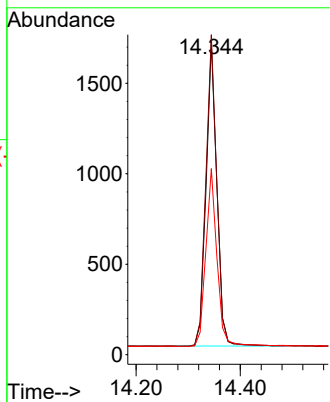
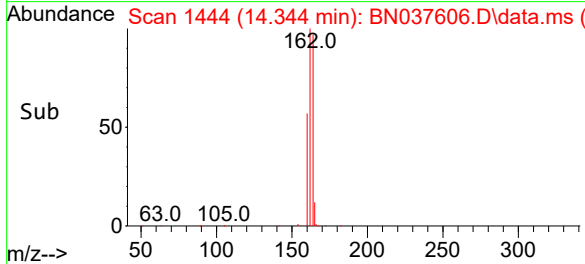
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



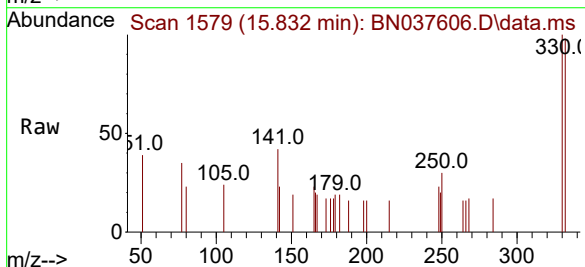
Tgt Ion:164 Resp: 2400
Ion Ratio Lower Upper
164 100
162 102.4 85.5 128.3
160 59.6 49.5 74.3

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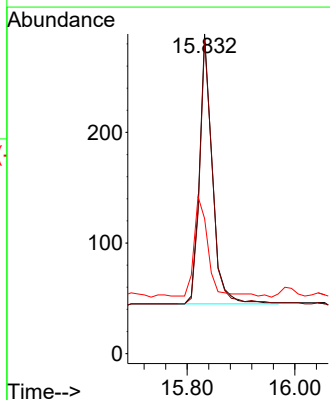
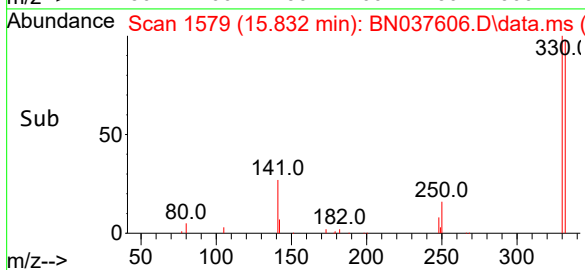
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

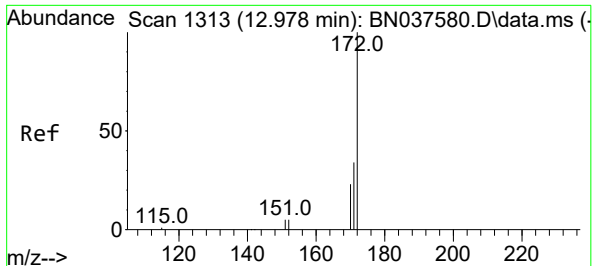


#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.832 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17



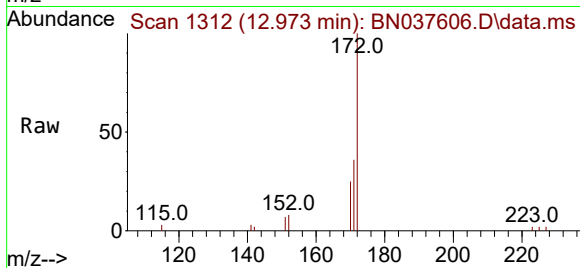
Tgt Ion:330 Resp: 401
Ion Ratio Lower Upper
330 100
332 98.3 77.4 116.0
141 42.6 30.9 46.3





#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 12.973 min Scan# 1313
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

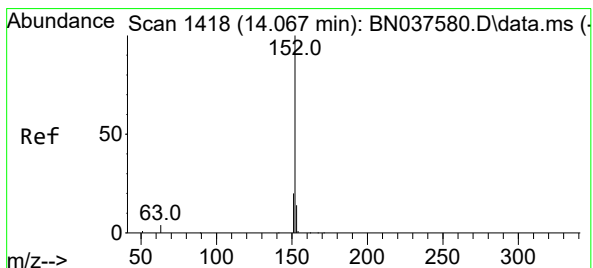
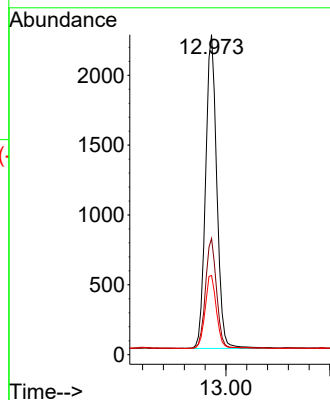
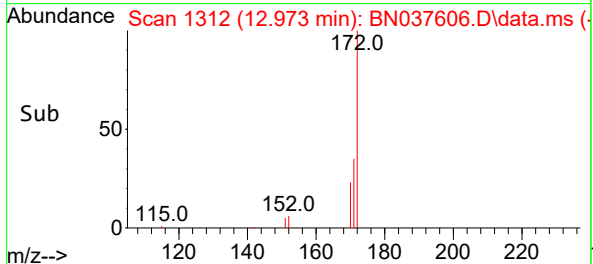
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion:172 Resp: 4509
Ion Ratio Lower Upper
172 100
171 36.3 28.2 42.4
170 24.7 19.2 28.8

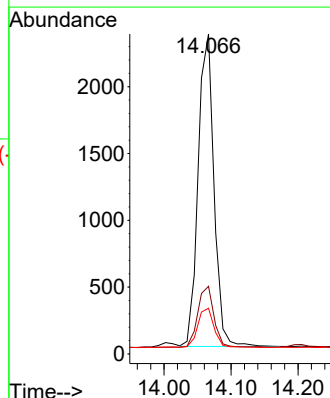
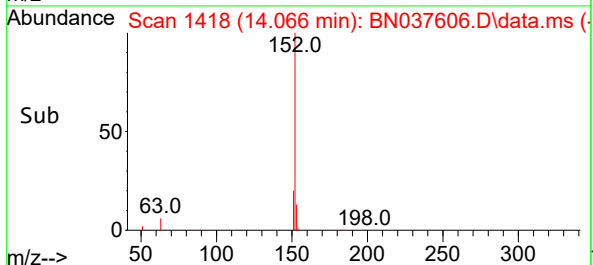
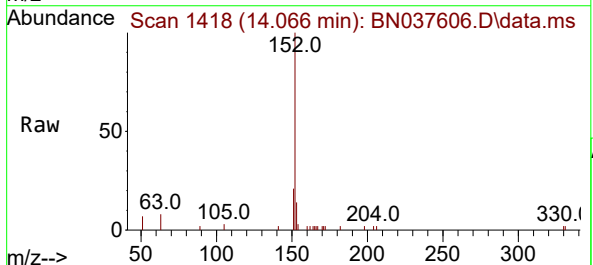
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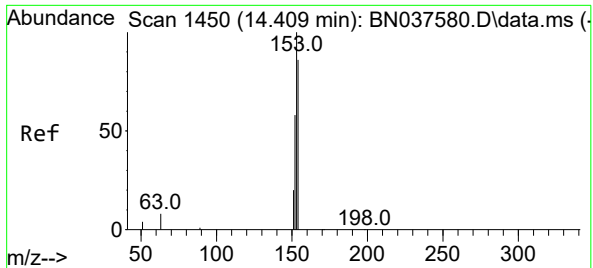
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#16
Acenaphthylene
Concen: 0.357 ng
RT: 14.066 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

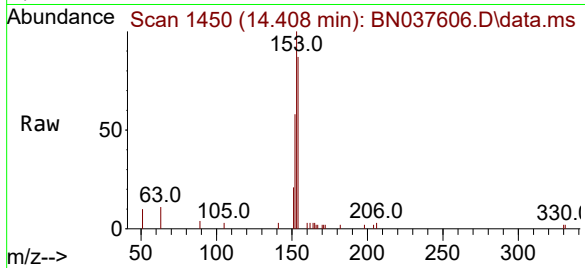
Tgt Ion:152 Resp: 3852
Ion Ratio Lower Upper
152 100
151 19.8 16.1 24.1
153 13.3 10.7 16.1





#17
Acenaphthene
Concen: 0.336 ng
RT: 14.408 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

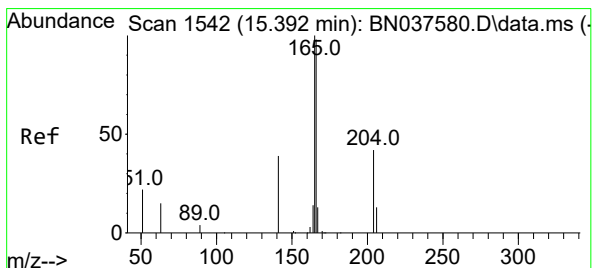
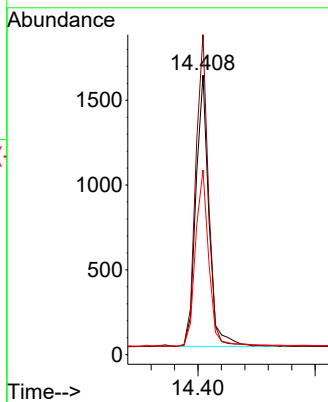
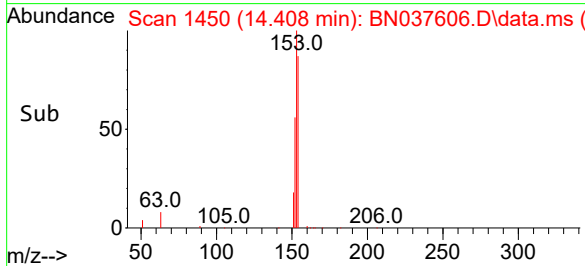
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion:154 Resp: 2460
Ion Ratio Lower Upper
154 100
153 111.9 90.6 135.8
152 66.6 54.9 82.3

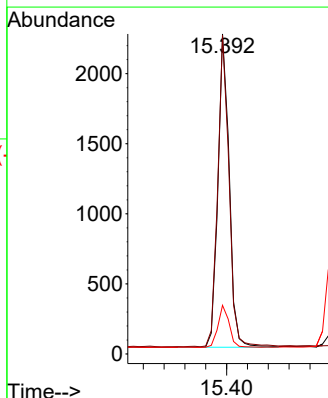
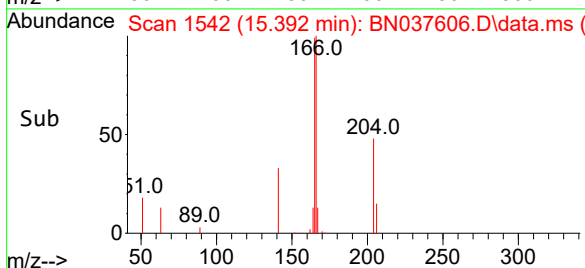
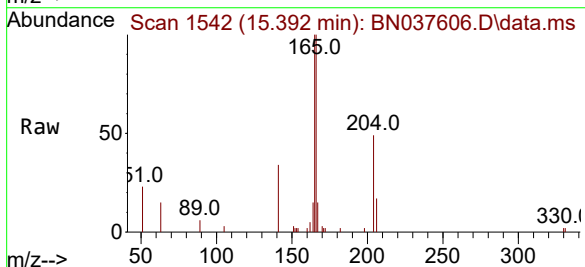
Manual Integrations
APPROVED

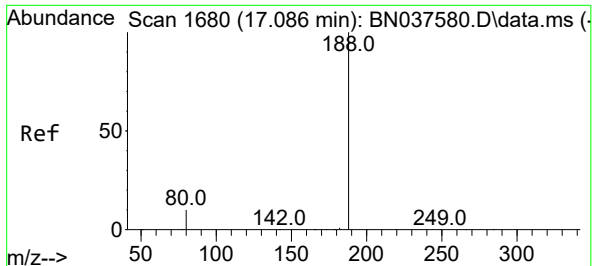
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#18
Fluorene
Concen: 0.350 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:166 Resp: 3360
Ion Ratio Lower Upper
166 100
165 99.8 78.9 118.3
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

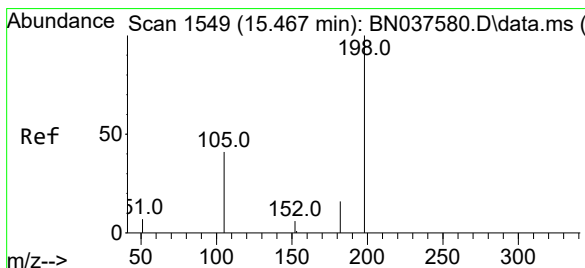
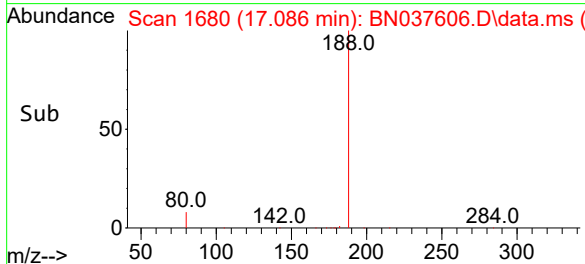
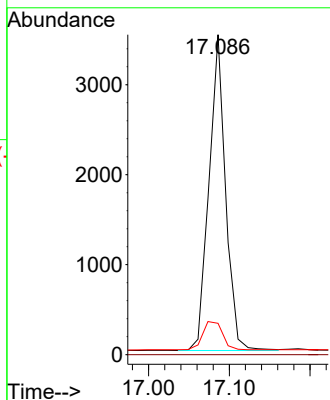
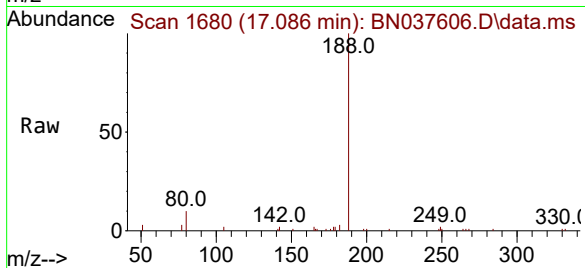
MW-17B-55.5-081225MSD

Tgt Ion:	188	Resp:	500
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.8	9.1	13.7

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.441 ng

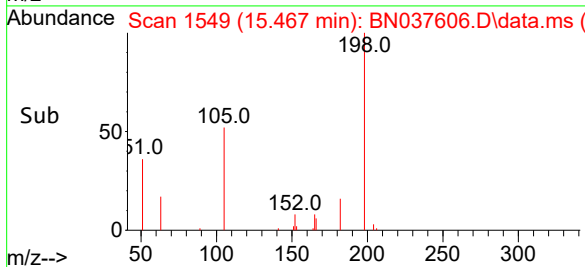
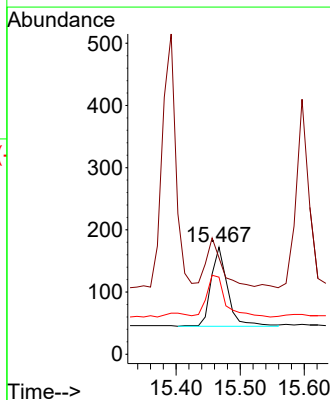
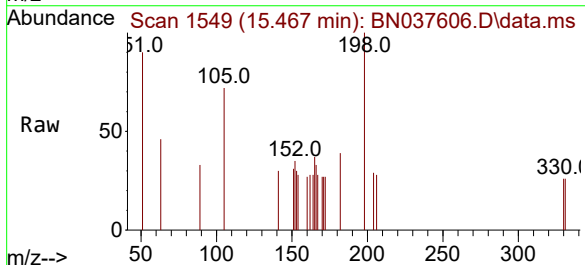
RT: 15.467 min Scan# 1549

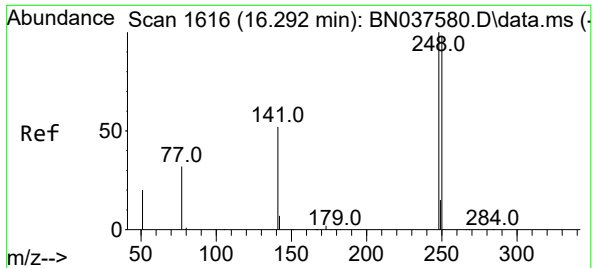
Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

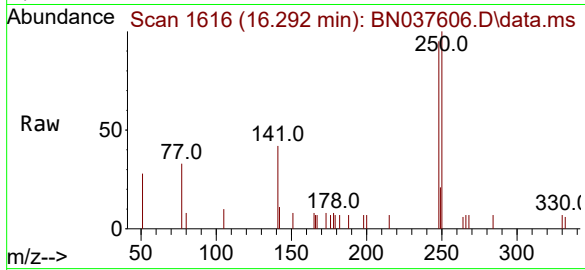
Tgt Ion:	198	Resp:	237
Ion Ratio	Lower	Upper	
198	100		
51	90.1	81.0	121.6
105	72.1	52.5	78.7





#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

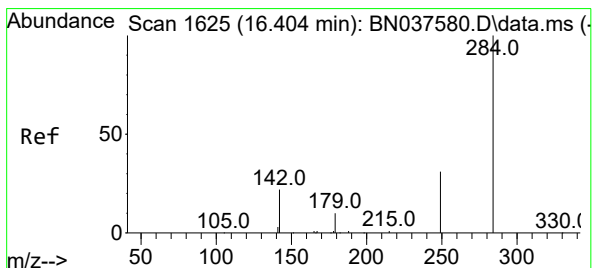
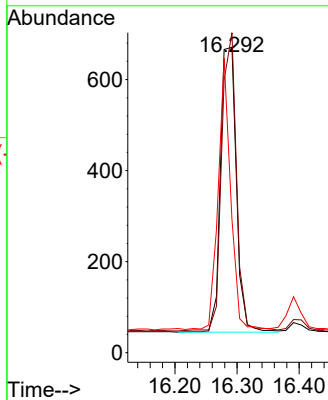
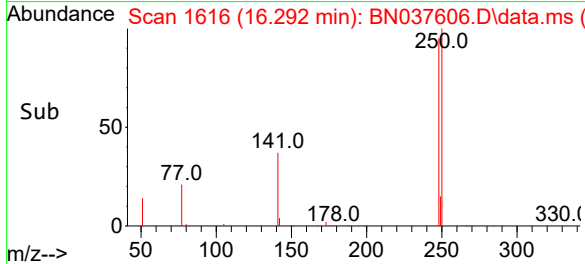
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



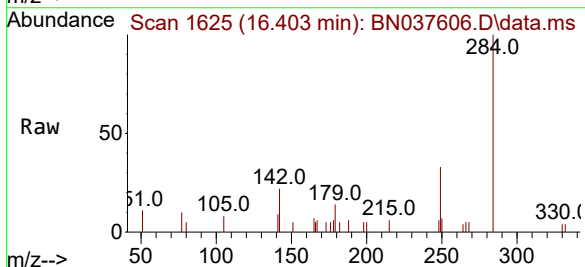
Tgt Ion:248 Resp: 111
Ion Ratio Lower Upper
248 100
250 104.8 78.6 118.0
141 43.7 43.7 65.5

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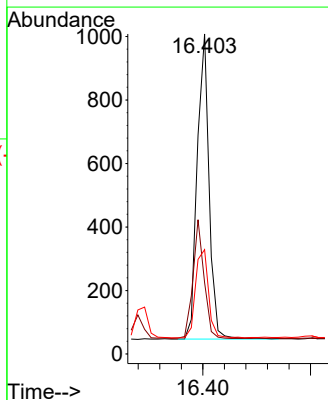
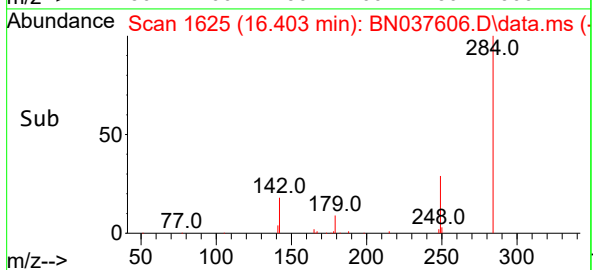
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

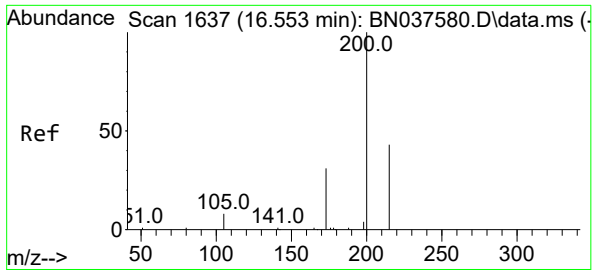


#22
Hexachlorobenzene
Concen: 0.331 ng
RT: 16.403 min Scan# 1625
Delta R.T. -0.001 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17



Tgt Ion:284 Resp: 1477
Ion Ratio Lower Upper
284 100
142 36.2 29.8 44.6
249 31.6 26.0 39.0





#23

Atrazine

Concen: 0.449 ng

RT: 16.552 min Scan# 1637

Delta R.T. -0.001 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD

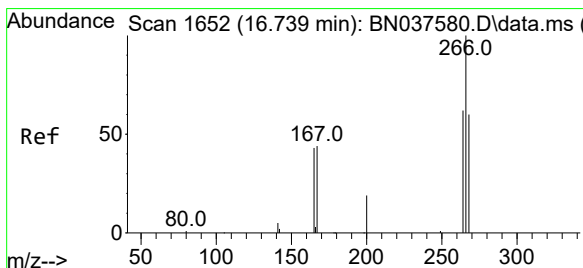
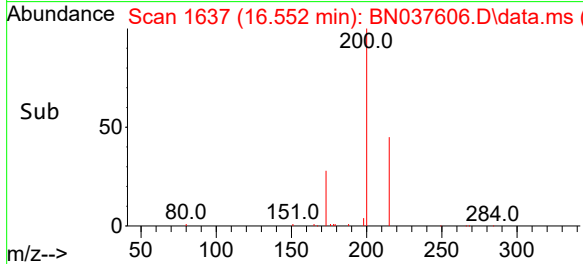
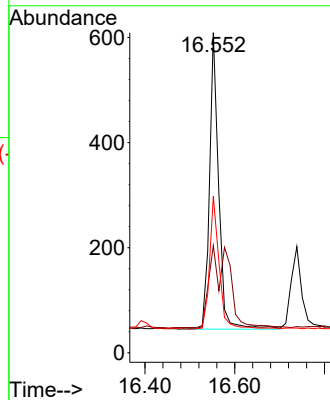
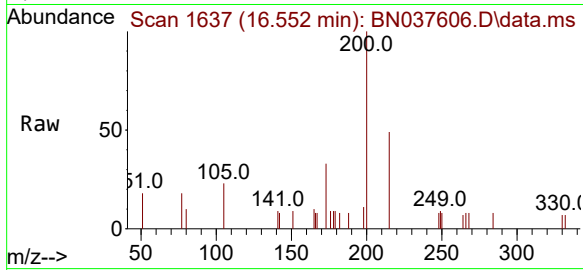
Tgt Ion:	200	Resp:	799
Ion Ratio	Lower	Upper	
200	100		
173	33.5	31.0	46.4
215	48.9	39.4	59.0

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#24

Pentachlorophenol

Concen: 0.826 ng

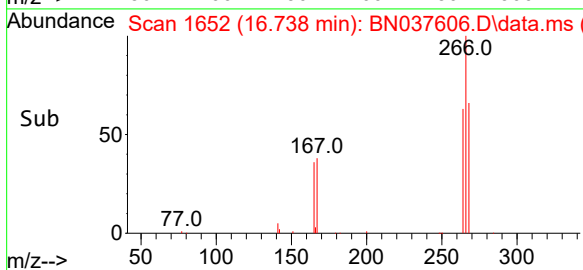
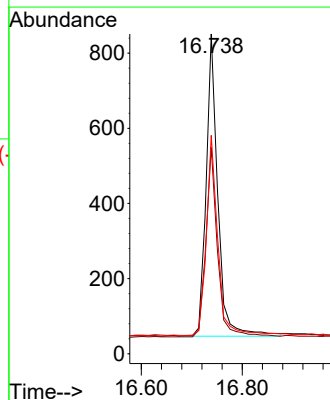
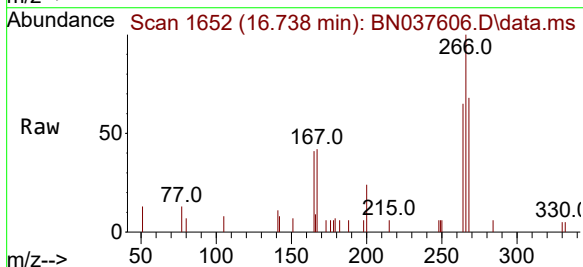
RT: 16.738 min Scan# 1652

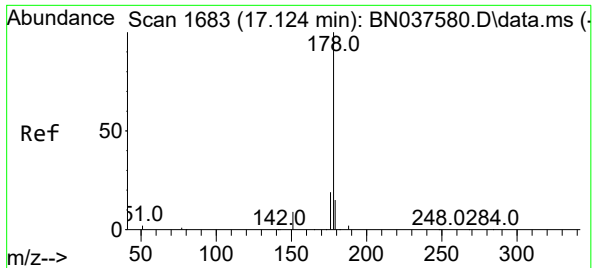
Delta R.T. -0.001 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

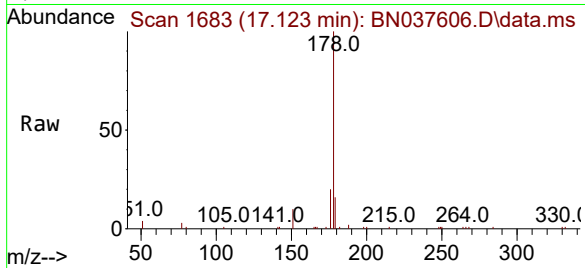
Tgt Ion:	266	Resp:	1294
Ion Ratio	Lower	Upper	
266	100		
264	62.4	49.6	74.4
268	65.3	49.2	73.8





#25
Phenanthrene
Concen: 0.443 ng
RT: 17.123 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

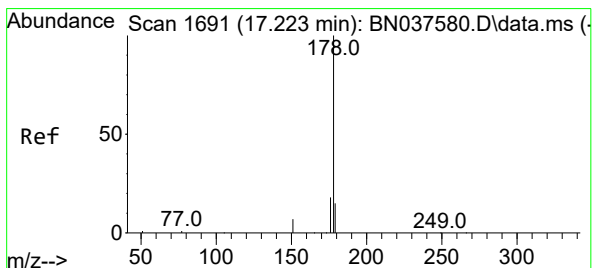
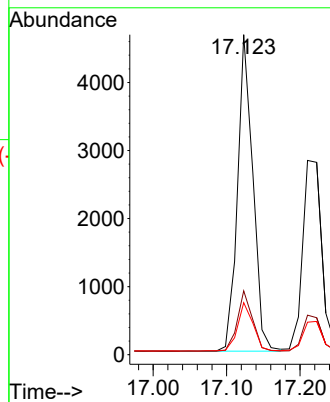
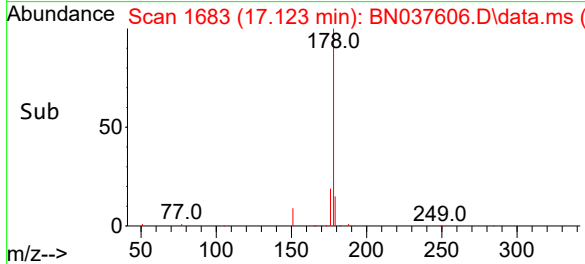
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion:178 Resp: 6750
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.6 12.3 18.5

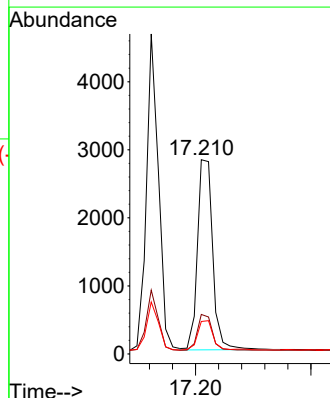
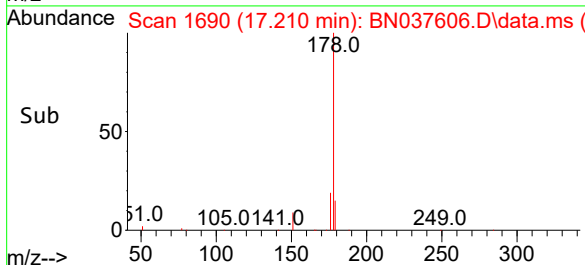
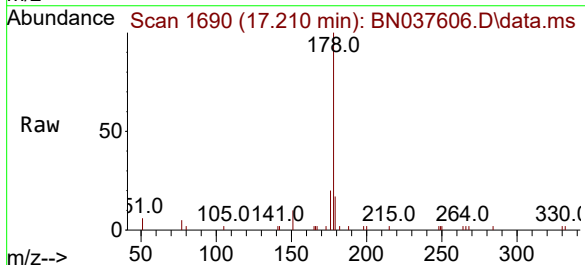
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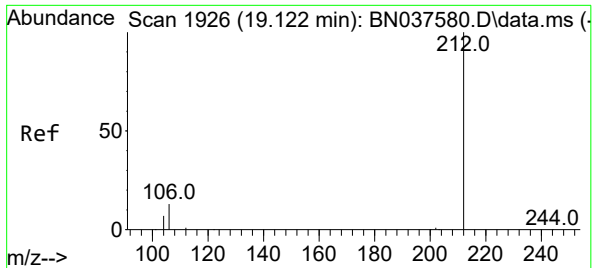
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#26
Anthracene
Concen: 0.381 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.013 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

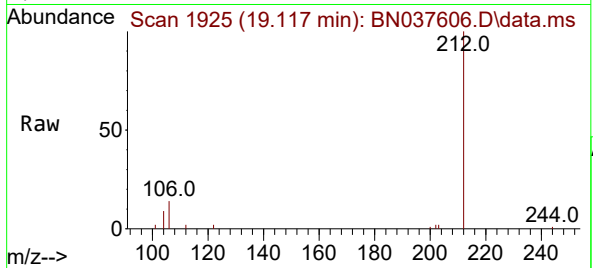
Tgt Ion:178 Resp: 5136
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.8 12.3 18.5





#27
Fluoranthene-d10
Concen: 0.371 ng
RT: 19.117 min Scan# 1925
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

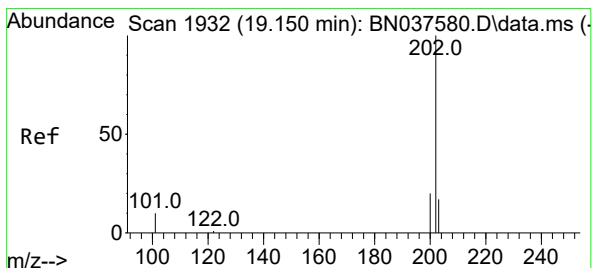
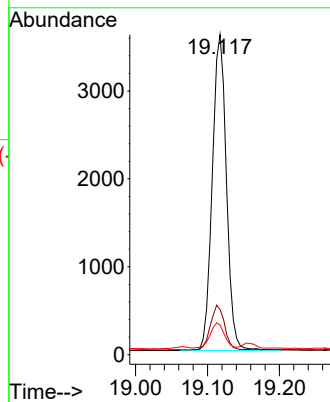
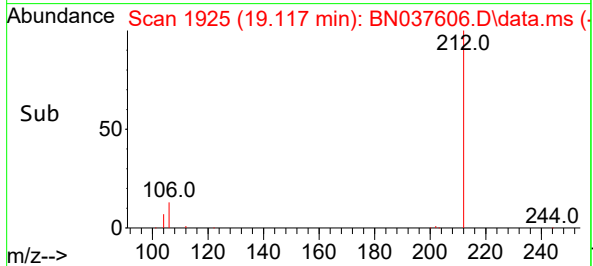
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



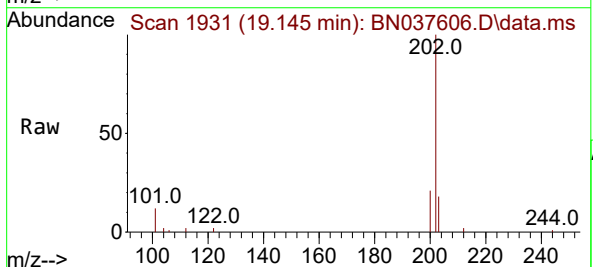
Tgt Ion:212 Resp: 4894
Ion Ratio Lower Upper
212 100
106 14.0 11.5 17.3
104 8.3 6.6 9.8

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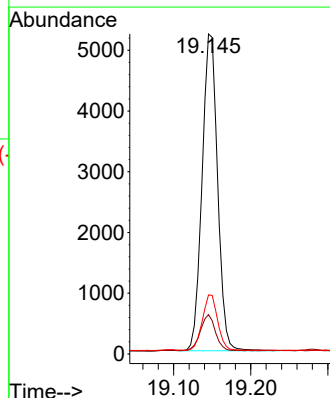
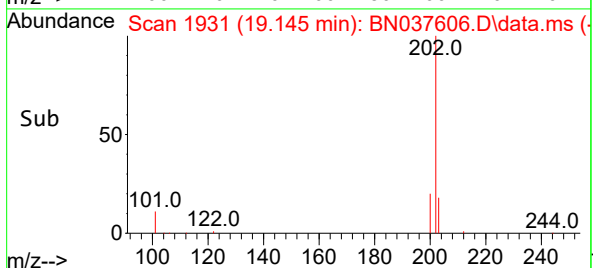
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025

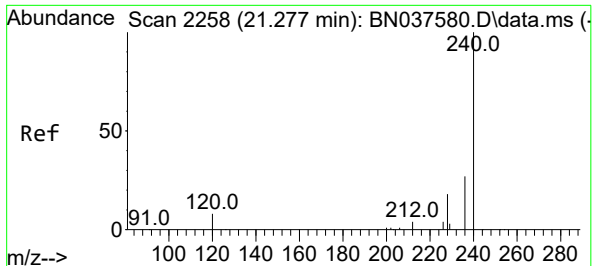


#28
Fluoranthene
Concen: 0.418 ng
RT: 19.145 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17



Tgt Ion:202 Resp: 7312
Ion Ratio Lower Upper
202 100
101 11.1 9.0 13.6
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.267 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037606.D

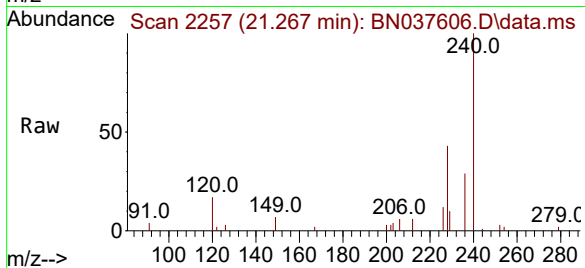
Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD

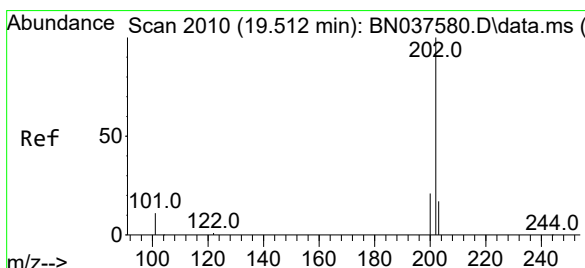
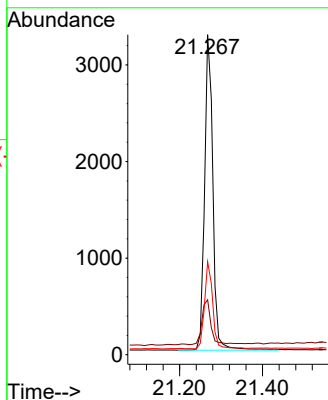
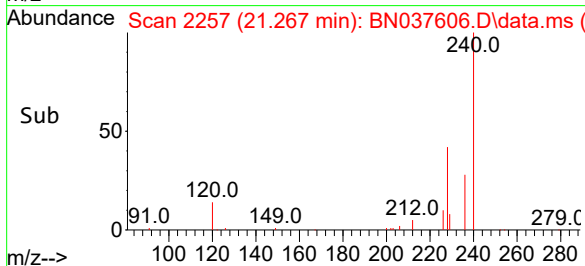


Tgt Ion:	240	Resp:	456
Ion Ratio	Lower	Upper	
240	100		
120	17.2	8.9	13.3
236	29.1	22.6	33.8

Manual Integrations
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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#30

Pyrene

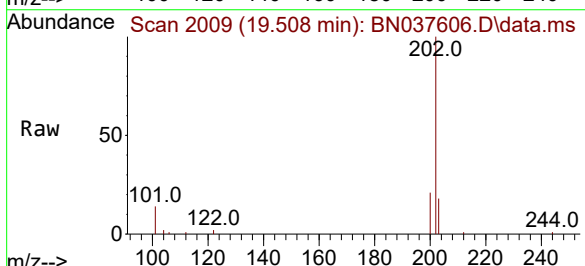
Concen: 0.415 ng

RT: 19.508 min Scan# 2009

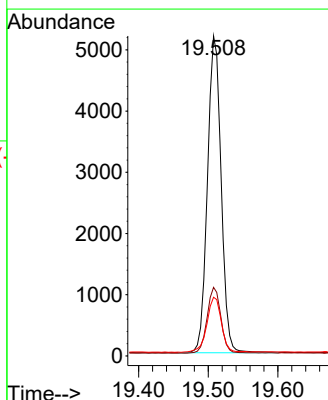
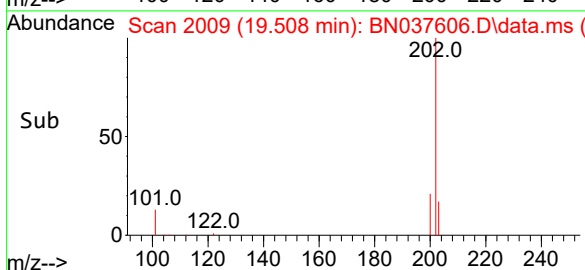
Delta R.T. -0.005 min

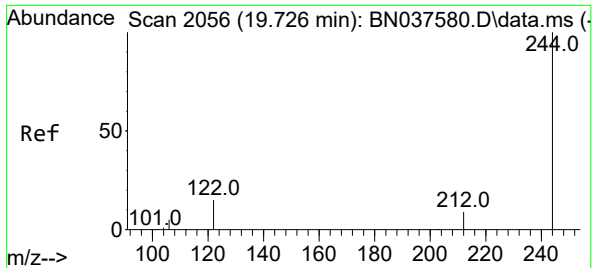
Lab File: BN037606.D

Acq: 19 Aug 2025 14:17



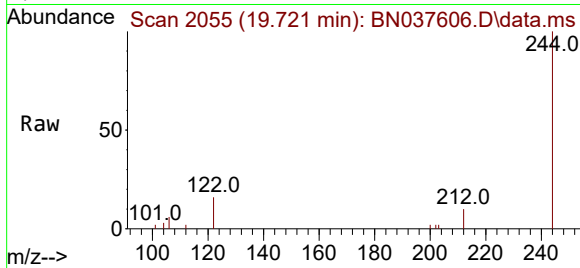
Tgt Ion:	202	Resp:	7072
Ion Ratio	Lower	Upper	
202	100		
200	20.7	16.6	25.0
203	18.3	14.3	21.5





#31
Terphenyl-d14
Concen: 0.468 ng
RT: 19.721 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

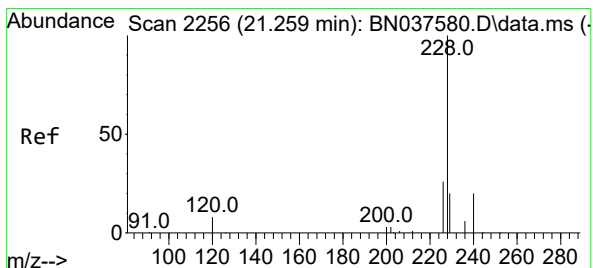
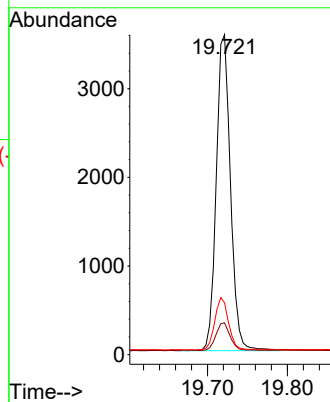
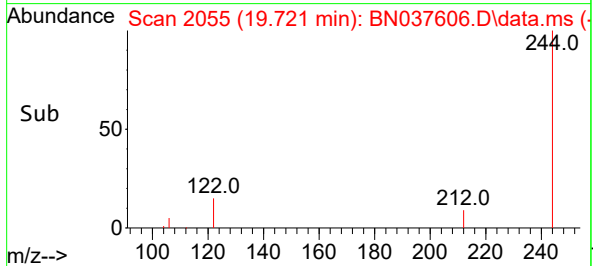
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion:244 Resp: 439
Ion Ratio Lower Upper
244 100
212 10.0 8.2 12.2
122 16.2 13.2 19.8

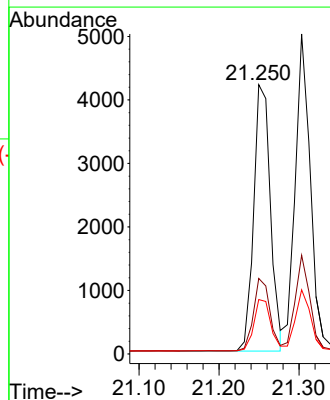
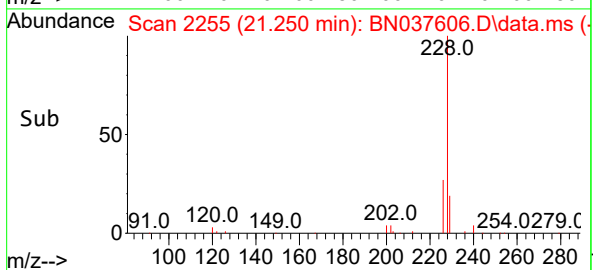
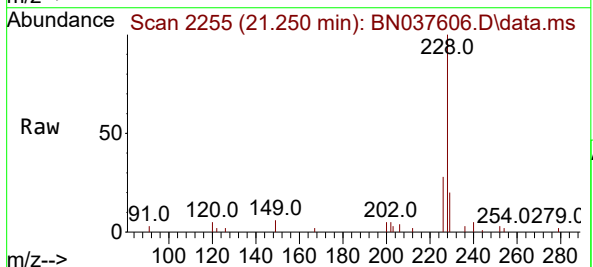
Manual Integrations
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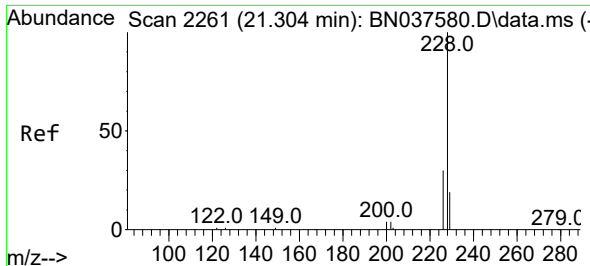
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#32
Benzo(a)anthracene
Concen: 0.402 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:228 Resp: 6132
Ion Ratio Lower Upper
228 100
226 28.0 21.5 32.3
229 20.2 16.5 24.7





#33

Chrysene

Concen: 0.394 ng

RT: 21.303 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037606.D

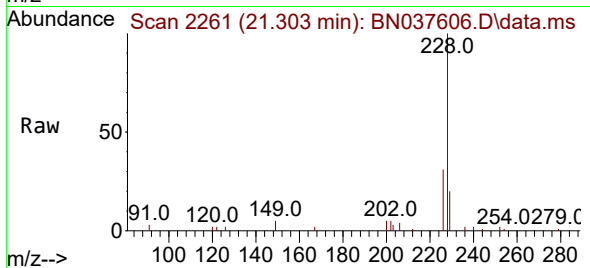
Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD



Tgt Ion:228 Resp: 6692

Ion Ratio Lower Upper

228 100

226 30.8 24.9 37.3

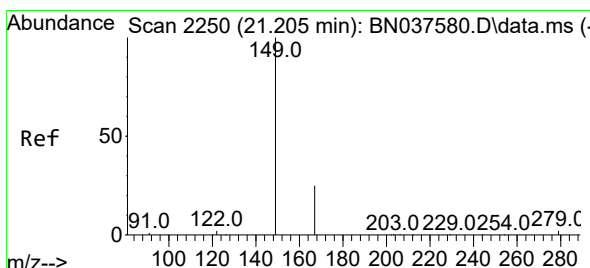
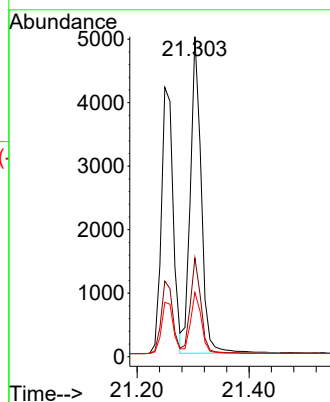
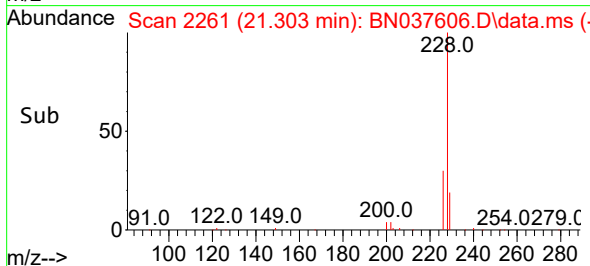
229 20.1 15.8 23.8

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.558 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

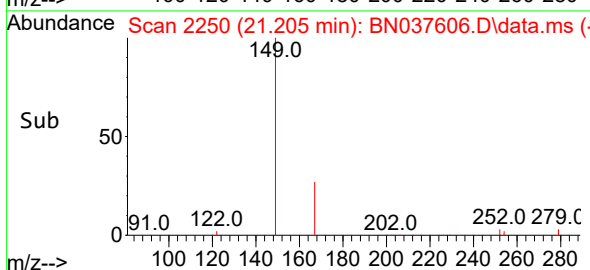
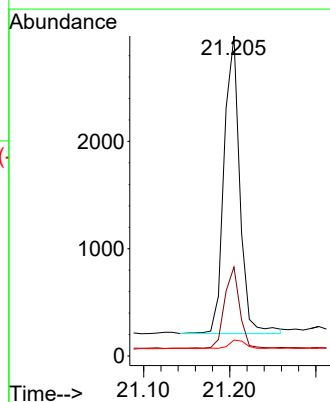
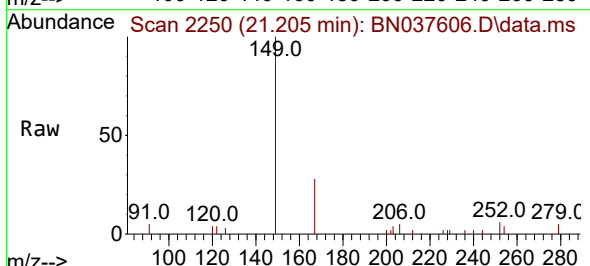
Tgt Ion:149 Resp: 3509

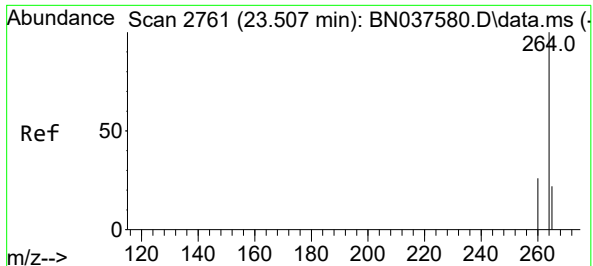
Ion Ratio Lower Upper

149 100

167 25.9 20.5 30.7

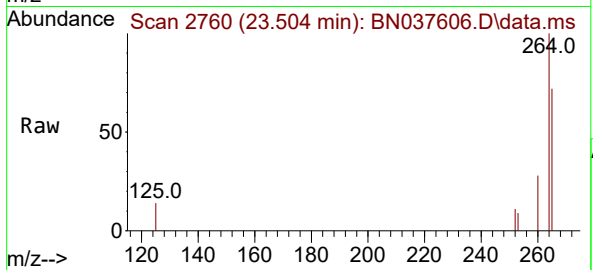
279 3.1 2.6 4.0





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.504 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

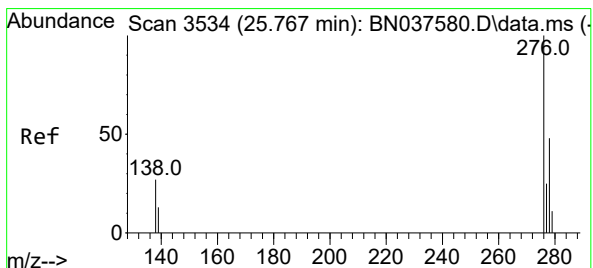
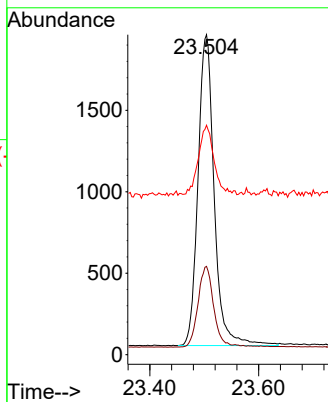
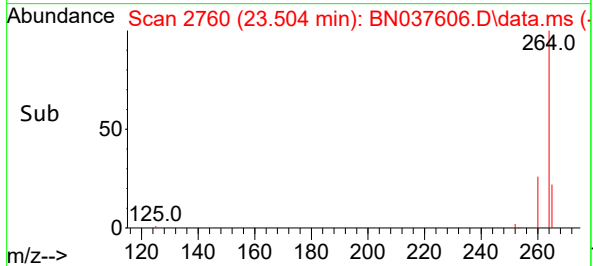
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD



Tgt Ion:264 Resp: 393
Ion Ratio Lower Upper
264 100
260 27.6 21.6 32.4
265 71.7 48.2 72.4

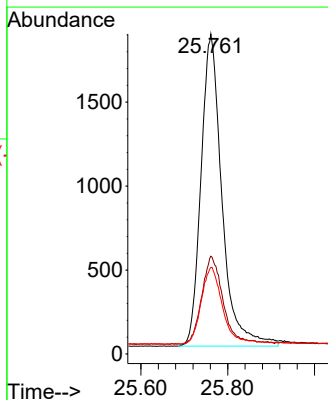
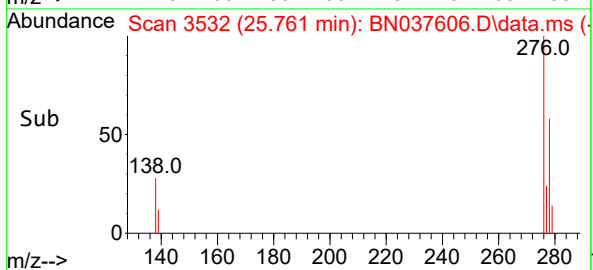
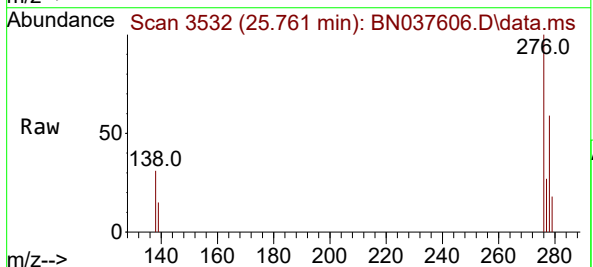
Manual Integrations
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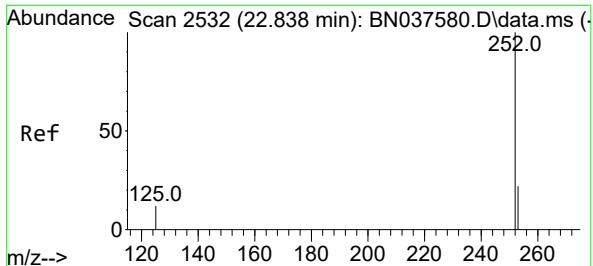
Reviewed By :Rahul Chavli 08/20/2025
Supervised By :Jagrut Upadhyay 08/20/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.376 ng
RT: 25.761 min Scan# 3532
Delta R.T. -0.006 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:276 Resp: 6228
Ion Ratio Lower Upper
276 100
138 28.3 23.3 34.9
277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.420 ng

RT: 22.832 min Scan# 2532

Delta R.T. -0.006 min

Lab File: BN037606.D

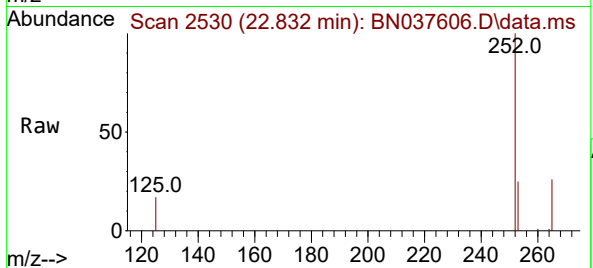
Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD



Tgt Ion:252 Resp: 626

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

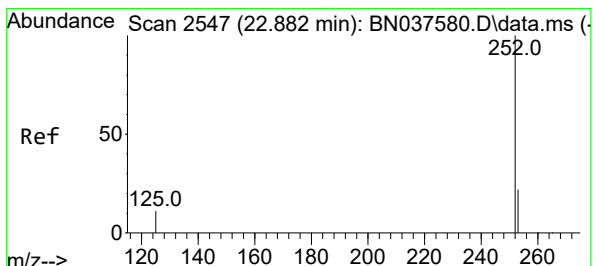
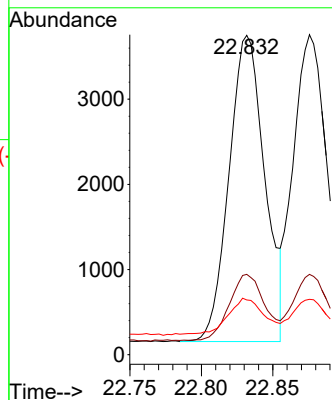
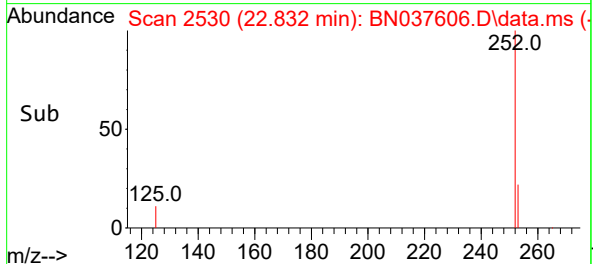
125 17.1 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#38

Benzo(k)fluoranthene

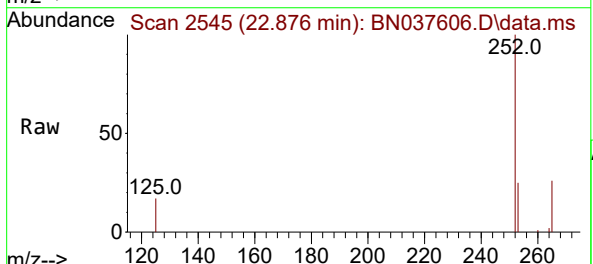
Concen: 0.373 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17



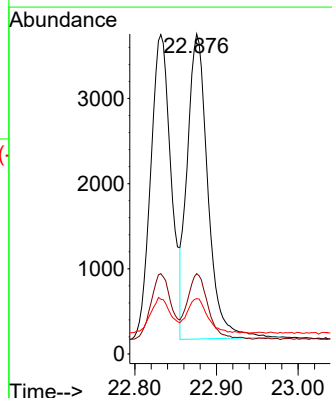
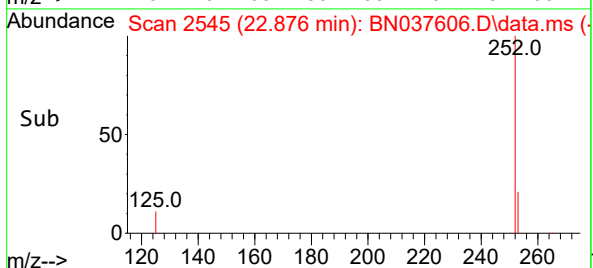
Tgt Ion:252 Resp: 6279

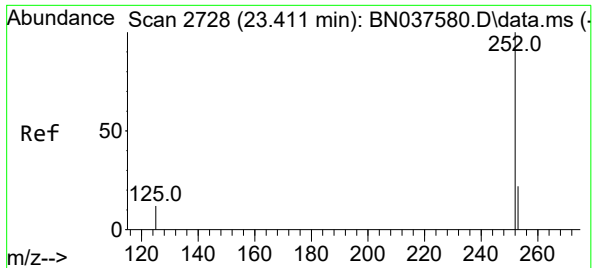
Ion Ratio Lower Upper

252 100

253 25.1 19.9 29.9

125 17.3 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.415 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037606.D

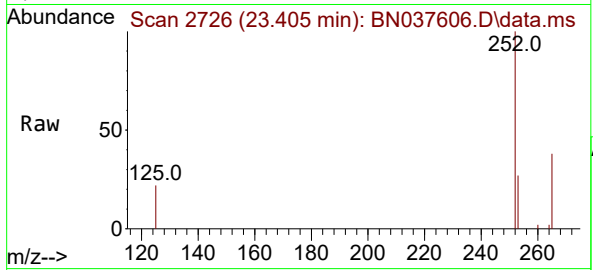
Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD

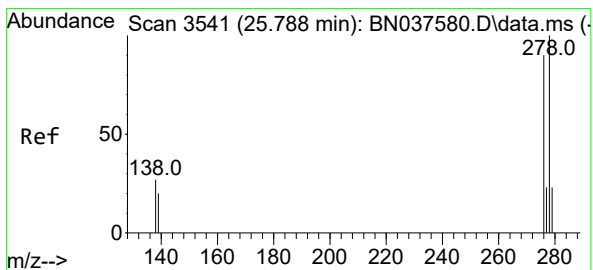
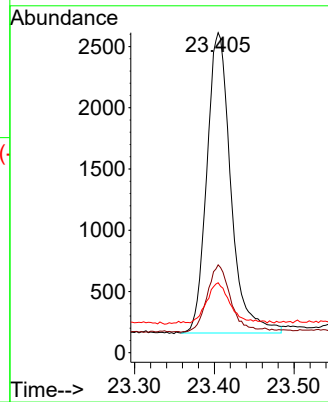
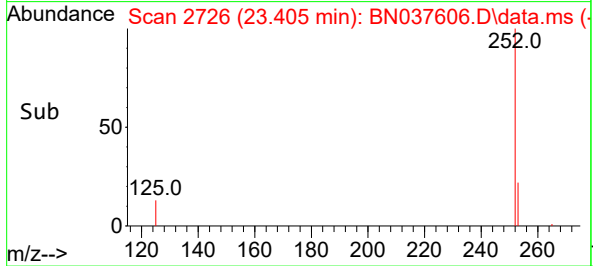


Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.4	21.6	32.4
125	21.9	16.8	25.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#40

Dibenzo(a,h)anthracene

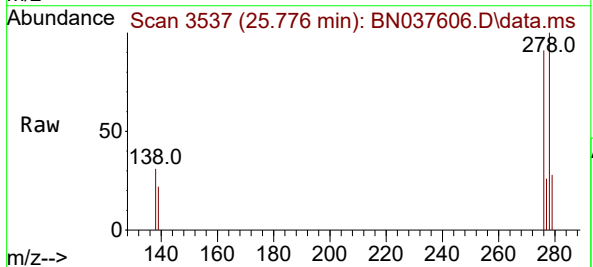
Concen: 0.369 ng

RT: 25.776 min Scan# 3537

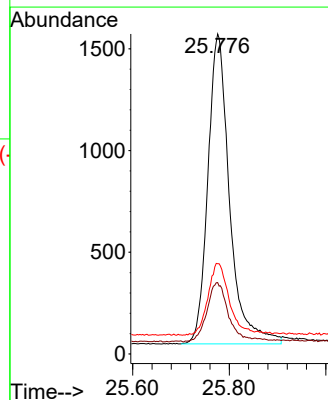
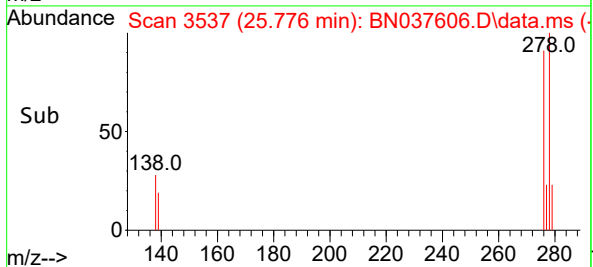
Delta R.T. -0.012 min

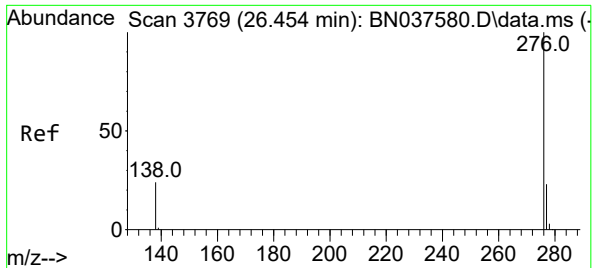
Lab File: BN037606.D

Acq: 19 Aug 2025 14:17



Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.3	18.3	27.5
279	28.2	22.5	33.7





#41

Benzo(g,h,i)perylene

Concen: 0.401 ng

RT: 26.445 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037606.D

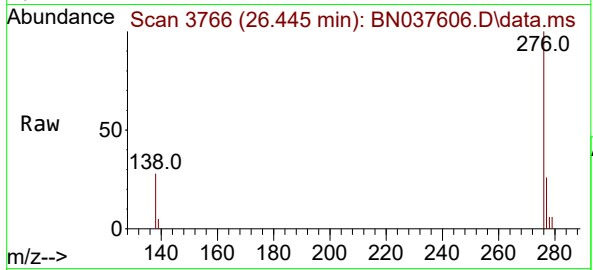
Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD



Tgt Ion:276 Resp: 543

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

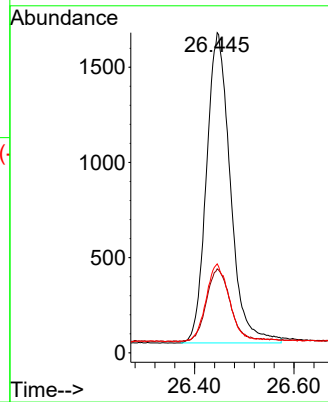
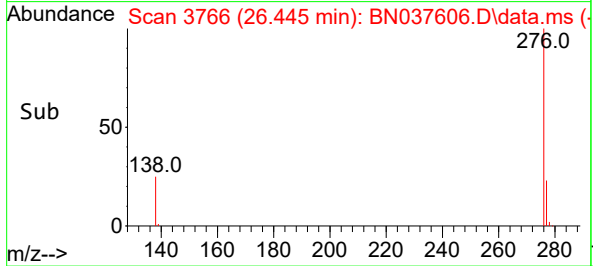
138 27.8 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025





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

Manual Integration Report

Sequence:

BN081225

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	bn081925	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2842-04MS	BN037605.D	2-Methylnaphthalene-d1 0	Rahul	8/20/2025 8:37:55 AM	Jagrut	8/20/2025 2:31:08 PM	Peak Integrated by Software
Q2842-05MSD	BN037606.D	2-Methylnaphthalene-d1 0	Rahul	8/20/2025 8:37:59 AM	Jagrut	8/20/2025 2:31:11 PM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081225

Review By	Rahul	Review On	8/13/2025 11:25:23 AM
Supervise By	Jagrut	Supervise On	8/13/2025 11:26:50 AM
SubDirectory	BN081225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037576.D	12 Aug 2025 15:05	RC/JU	Ok
2	SSTDCCC0.4	BN037577.D	12 Aug 2025 15:49	RC/JU	Not Ok
3	SSTDICC0.1	BN037578.D	12 Aug 2025 16:26	RC/JU	Ok
4	SSTDICC0.2	BN037579.D	12 Aug 2025 17:03	RC/JU	Ok
5	SSTDICCC0.4	BN037580.D	12 Aug 2025 17:39	RC/JU	Ok
6	SSTDICC0.8	BN037581.D	12 Aug 2025 18:16	RC/JU	Ok
7	SSTDICC1.6	BN037582.D	12 Aug 2025 18:52	RC/JU	Ok
8	SSTDICC3.2	BN037583.D	12 Aug 2025 19:29	RC/JU	Ok
9	SSTDICC5.0	BN037584.D	12 Aug 2025 20:05	RC/JU	Ok
10	SSTDICV0.4	BN037585.D	12 Aug 2025 20:42	RC/JU	Ok
11	PB169094BL	BN037586.D	12 Aug 2025 21:55	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081925

Review By	Rahul	Review On	8/21/2025 3:02:23 PM
Supervise By	Jagrut	Supervise On	8/21/2025 5:56:51 PM
SubDirectory	BN081925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037599.D	19 Aug 2025 10:00	RC/JU	Ok
2	SSTDCCC0.4	BN037600.D	19 Aug 2025 10:39	RC/JU	Ok
3	PB169286BL	BN037601.D	19 Aug 2025 11:16	RC/JU	Not Ok
4	Q2842-01	BN037602.D	19 Aug 2025 11:52	RC/JU	Dilution
5	Q2842-02	BN037603.D	19 Aug 2025 12:28	RC/JU	Dilution
6	Q2842-03	BN037604.D	19 Aug 2025 13:04	RC/JU	Ok
7	Q2842-04MS	BN037605.D	19 Aug 2025 13:40	RC/JU	Ok,M
8	Q2842-05MSD	BN037606.D	19 Aug 2025 14:17	RC/JU	Ok,M
9	Q2842-06	BN037607.D	19 Aug 2025 14:53	RC/JU	Ok
10	Q2869-01	BN037608.D	19 Aug 2025 15:29	RC/JU	Dilution
11	Q2869-03	BN037609.D	19 Aug 2025 16:05	RC/JU	Ok
12	Q2869-04	BN037610.D	19 Aug 2025 16:42	RC/JU	Ok
13	Q2869-05	BN037611.D	19 Aug 2025 17:18	RC/JU	Ok
14	Q2869-07	BN037612.D	19 Aug 2025 17:54	RC/JU	Ok
15	Q2869-10	BN037613.D	19 Aug 2025 18:30	RC/JU	Ok
16	Q2878-01	BN037614.D	19 Aug 2025 19:07	RC/JU	Ok
17	Q2878-05	BN037615.D	19 Aug 2025 19:43	RC/JU	Dilution
18	SSTDCCC0.4	BN037616.D	19 Aug 2025 20:19	RC/JU	Ok
19	DFTPP	BN037617.D	20 Aug 2025 03:35	RC/JU	Ok
20	SSTDCCC0.4	BN037618.D	20 Aug 2025 04:14	RC/JU	Ok
21	PB169286BL	BN037619.D	20 Aug 2025 04:50	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081925

Review By	Rahul	Review On	8/21/2025 3:02:23 PM
Supervise By	Jagrut	Supervise On	8/21/2025 5:56:51 PM
SubDirectory	BN081925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2842-01DL	BN037620.D	20 Aug 2025 05:27	RC/JU	Ok
23	Q2842-02DL	BN037621.D	20 Aug 2025 06:03	RC/JU	Ok
24	Q2869-01DL	BN037622.D	20 Aug 2025 06:38	RC/JU	Ok
25	Q2881-01	BN037623.D	20 Aug 2025 07:13	RC/JU	Ok
26	Q2881-02	BN037624.D	20 Aug 2025 07:49	RC/JU	Ok
27	Q2882-01	BN037625.D	20 Aug 2025 08:25	RC/JU	Ok
28	Q2882-02	BN037626.D	20 Aug 2025 09:00	RC/JU	Ok
29	Q2882-03	BN037627.D	20 Aug 2025 09:37	RC/JU	Ok
30	Q2882-04	BN037628.D	20 Aug 2025 10:13	RC/JU	Ok
31	Q2878-05DL	BN037629.D	20 Aug 2025 10:49	RC/JU	Ok
32	PB169286BS	BN037630.D	20 Aug 2025 11:25	RC/JU	Ok
33	SSTDCCC0.4	BN037631.D	20 Aug 2025 14:56	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081225

Review By	Rahul	Review On	8/13/2025 11:25:23 AM
Supervise By	Jagrut	Supervise On	8/13/2025 11:26:50 AM
SubDirectory	BN081225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn081225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037576.D	12 Aug 2025 15:05		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037577.D	12 Aug 2025 15:49	A Fresh Calibration is required	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037578.D	12 Aug 2025 16:26		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037579.D	12 Aug 2025 17:03		RC/JU	Ok
5	SSTDICC0.4	SSTDICC0.4	BN037580.D	12 Aug 2025 17:39	Compound #20 kept on LR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037581.D	12 Aug 2025 18:16		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037582.D	12 Aug 2025 18:52		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037583.D	12 Aug 2025 19:29		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037584.D	12 Aug 2025 20:05	Comp #20,23,24 removed from 5ppm	RC/JU	Ok
10	SSTDICV0.4	ICVBN081225	BN037585.D	12 Aug 2025 20:42		RC/JU	Ok
11	PB169094BL	PB169094BL	BN037586.D	12 Aug 2025 21:55		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081925

Review By	Rahul	Review On	8/21/2025 3:02:23 PM
Supervise By	Jagrut	Supervise On	8/21/2025 5:56:51 PM
SubDirectory	BN081925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn081225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
Internal Standard/PEM	SP6830,1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037599.D	19 Aug 2025 10:00		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037600.D	19 Aug 2025 10:39		RC/JU	Ok
3	PB169286BL	PB169286BL	BN037601.D	19 Aug 2025 11:16	Not Used	RC/JU	Not Ok
4	Q2842-01	RMW-03B-90.4-081220	BN037602.D	19 Aug 2025 11:52	Need 2X.	RC/JU	Dilution
5	Q2842-02	RMW-02B-66.3-081220	BN037603.D	19 Aug 2025 12:28	Need 10X.	RC/JU	Dilution
6	Q2842-03	MW-17B-55.5-0812202	BN037604.D	19 Aug 2025 13:04		RC/JU	Ok
7	Q2842-04MS	MW-17B-55.5-0812202	BN037605.D	19 Aug 2025 13:40	Recovery fail very high , need noncon.	RC/JU	Ok,M
8	Q2842-05MSD	MW-17B-55.5-0812202	BN037606.D	19 Aug 2025 14:17	Recovery fail very high , need noncon.	RC/JU	Ok,M
9	Q2842-06	MW-06-6.5-08122025	BN037607.D	19 Aug 2025 14:53		RC/JU	Ok
10	Q2869-01	MW-19B-71.5-081325	BN037608.D	19 Aug 2025 15:29	Need 2X.	RC/JU	Dilution
11	Q2869-03	MW-01-6.5-081325	BN037609.D	19 Aug 2025 16:05		RC/JU	Ok
12	Q2869-04	MW-11A-13.5-081325	BN037610.D	19 Aug 2025 16:42		RC/JU	Ok
13	Q2869-05	MW-19B-71.5-081325	BN037611.D	19 Aug 2025 17:18		RC/JU	Ok
14	Q2869-07	EB01-081325	BN037612.D	19 Aug 2025 17:54		RC/JU	Ok
15	Q2869-10	EB02-081325	BN037613.D	19 Aug 2025 18:30		RC/JU	Ok
16	Q2878-01	MW-18B-57.5-081325	BN037614.D	19 Aug 2025 19:07		RC/JU	Ok
17	Q2878-05	MW-11A-37.5-081425	BN037615.D	19 Aug 2025 19:43	Need 20X.	RC/JU	Dilution

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081925

Review By	Rahul	Review On	8/21/2025 3:02:23 PM
Supervise By	Jagrut	Supervise On	8/21/2025 5:56:51 PM
SubDirectory	BN081925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	SSTDCCC0.4	SSTDCCC0.4EC	BN037616.D	19 Aug 2025 20:19		RC/JU	Ok
19	DFTPP	DFTPP	BN037617.D	20 Aug 2025 03:35		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN037618.D	20 Aug 2025 04:14		RC/JU	Ok
21	PB169286BL	PB169286BL	BN037619.D	20 Aug 2025 04:50		RC/JU	Ok
22	Q2842-01DL	RMW-03B-90.4-081220	BN037620.D	20 Aug 2025 05:27		RC/JU	Ok
23	Q2842-02DL	RMW-02B-66.3-081220	BN037621.D	20 Aug 2025 06:03		RC/JU	Ok
24	Q2869-01DL	MW-19B-71.5-081325D	BN037622.D	20 Aug 2025 06:38		RC/JU	Ok
25	Q2881-01	RW8-SP100-20250814	BN037623.D	20 Aug 2025 07:13		RC/JU	Ok
26	Q2881-02	RW8-SP303-20250814	BN037624.D	20 Aug 2025 07:49		RC/JU	Ok
27	Q2882-01	RW7-SP100-20250814	BN037625.D	20 Aug 2025 08:25		RC/JU	Ok
28	Q2882-02	RW7-SP201-20250814	BN037626.D	20 Aug 2025 09:00		RC/JU	Ok
29	Q2882-03	RW7-SP302-20250814	BN037627.D	20 Aug 2025 09:37		RC/JU	Ok
30	Q2882-04	RW7-SP303-20250814	BN037628.D	20 Aug 2025 10:13		RC/JU	Ok
31	Q2878-05DL	MW-11A-37.5-081425D	BN037629.D	20 Aug 2025 10:49		RC/JU	Ok
32	PB169286BS	PB169286BS	BN037630.D	20 Aug 2025 11:25		RC/JU	Ok
33	SSTDCCC0.4	SSTDCCC0.4EC	BN037631.D	20 Aug 2025 14:56		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A **Extraction Start Date :** 08/18/2025

Matrix : Water **Extraction Start Time :** 08:41

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 08/18/2025

Balance check: N/A **Filter By:** RJ **Extraction End Time :** 13:45

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3953 **Hood ID:** 4,5,6,7 **Supervisor By :** RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
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	E3964
Baked Na2SO4	N/A	EP2632
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
8/18/25	RS (Ext Lab)	RC/svoc
13:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 08/18/2025

Sample ID	Client Sample ID	Test	g / ¹ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169286BL	SBLK286	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			SEP-1
PB169286BS	SLCS286	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			2
Q2842-01	RMW-03B-90.4-08122025	SVOC-SIMGrou p1	910	6	RUPEsh	ritesh	1	E		3
Q2842-02	RMW-02B-66.3-08122025	SVOC-SIMGrou p1	970	6	RUPEsh	ritesh	1	E		4
Q2842-03	MW-17B-55.5-08122025	SVOC-SIMGrou p1	980	6	RUPEsh	ritesh	1	H		5
Q2842-04	Q2842-03MS	SVOC-SIMGrou p1	940	6	RUPEsh	ritesh	1	H		6
Q2842-05	Q2842-03MSD	SVOC-SIMGrou p1	960	6	RUPEsh	ritesh	1	H		7
Q2842-06	MW-06-6.5-08122025	SVOC-SIMGrou p1	970	6	RUPEsh	ritesh	1	B		8
Q2869-01	MW-19B-71.5-081325	SVOC-SIMGrou p1	930	6	RUPEsh	ritesh	1	G		9
Q2869-03	MW-01-6.5-081325	SVOC-SIMGrou p1	900	6	RUPEsh	ritesh	1	C		10
Q2869-04	MW-11A-13.5-081325	SVOC-SIMGrou p1	960	6	RUPEsh	ritesh	1	C		11
Q2869-05	MW-19B-71.5-081325-FD	SVOC-SIMGrou p1	960	6	RUPEsh	ritesh	1	G		12
Q2869-07	EB01-081325	SVOC-SIMGrou p1	940	6	RUPEsh	ritesh	1	G		13
Q2869-10	EB02-081325	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	C		14
Q2878-01	MW-18B-57.5-081325	SVOC-SIMGrou p1	900	6	RUPEsh	ritesh	1	C		15
Q2878-05	MW-11A-37.5-081425	SVOC-SIMGrou p1	950	6	RUPEsh	ritesh	1	C		16
Q2881-01	RW8-SP100-2025814	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	D		SEP-1
Q2881-02	RW8-SP303-20250814	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	D		2
Q2882-01	RW7-SP100-20250814	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			3
Q2882-02	RW7-SP201-20250814	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			4
Q2882-03	RW7-SP302-20250814	SVOC-SIMGrou p1	910	6	RUPEsh	ritesh	1			5
Q2882-04	RW7-SP303-20250814	SVOC-SIMGrou p1	940	6	RUPEsh	ritesh	1			6

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2842

WorkList ID : 191325

Department : Extraction

Date : 08-18-2025 08:35:56

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2842-01	RMW-03B-90.4-081225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J32	08/12/2025	8270-Modified
Q2842-02	RMW-02B-66.3-081225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J32	08/12/2025	8270-Modified
Q2842-03	MW-17B-55.5-081225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J32	08/12/2025	8270-Modified
Q2842-04	Q2842-03MS	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J32	08/12/2025	8270-Modified
Q2842-05	Q2842-03MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J32	08/12/2025	8270-Modified
Q2842-06	MW-06-6.5-081225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J32	08/12/2025	8270-Modified
Q2869-01	MW-19B-71.5-081325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J31	08/13/2025	8270-Modified
Q2869-03	MW-01-6.5-081325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J31	08/13/2025	8270-Modified
Q2869-04	MW-11A-13.5-081325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J31	08/13/2025	8270-Modified
Q2869-05	MW-19B-71.5-081325-FD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J31	08/13/2025	8270-Modified
Q2869-07	EB01-081325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J31	08/13/2025	8270-Modified
Q2869-10	EB02-081325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	J31	08/13/2025	8270-Modified
Q2878-01	MW-18B-57.5-081325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D31	08/14/2025	8270-Modified
Q2878-05	MW-11A-37.5-081425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D31	08/14/2025	8270-Modified
Q2881-01	RW8-SP100-2025814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J32	08/14/2025	8270-Modified
Q2881-02	RW8-SP303-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J32	08/14/2025	8270-Modified
Q2882-01	RW7-SP100-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J31	08/14/2025	8270-Modified
Q2882-02	RW7-SP201-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J31	08/14/2025	8270-Modified
Q2882-03	RW7-SP302-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J31	08/14/2025	8270-Modified
Q2882-04	RW7-SP303-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J31	08/14/2025	8270-Modified

Date/Time 8/18/25 8:36

Raw Sample Received by: RS (Ext-Lab)

Raw Sample Relinquished by: JU SM

Q2881-SVOC-SIMGroup1

Date/Time 8/18/25 9:00

Raw Sample Received by: JU SM

Raw Sample Relinquished by: RS (Ext-Lab)

Prep Standard - Chemical Standard Summary

Order ID : Q2881
Test : SVOC-SIMGroup1
Prepbatch ID : PB169286,
Sequence ID/Qc Batch ID: bn081925,

Standard ID :
EP2609,EP2610,EP2632,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3964,M6157,S10105,S 11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W 3112,

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

(EX-SC-2)

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESEKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2632	08/11/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 08/11/2025

FROM 4000.00000gram of E3875 = 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>
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>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = 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>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
FROM 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

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 / RUPESH	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)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

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)	25C1262005	04/16/2026	08/14/2025 / RUPESH	03/06/2025 / RUPESH	E3964

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	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

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

CHEMICAL RECEIPT LOG BOOK

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	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

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	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

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	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

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	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

CHEMICAL RECEIPT LOG BOOK

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 #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

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	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

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	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

[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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

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	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

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)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By:

Erica Castiglione
Chemist



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

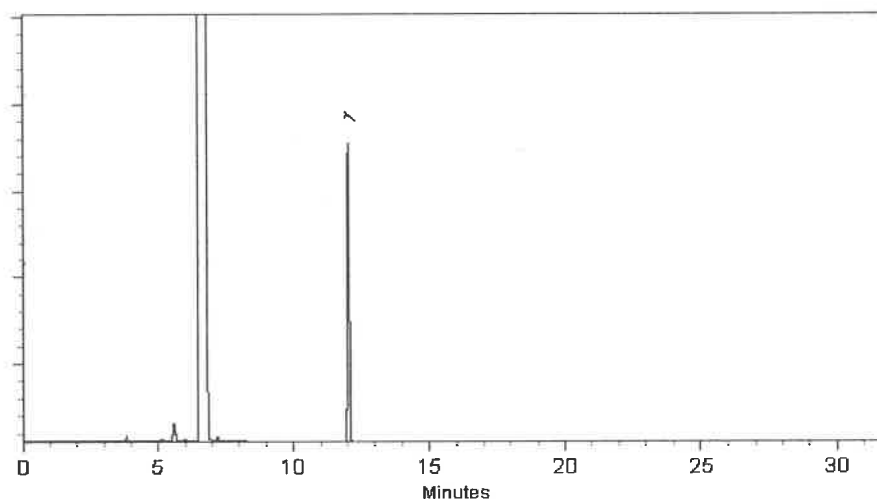
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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.

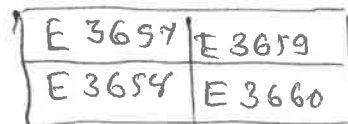
This document has been electronically produced and is valid without a signature.

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.





**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 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 %	0.2 %
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

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 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 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 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

E3942

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on .

E 3964

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

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

 **avantor**™



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

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0200655
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11795
↓
S11808 } 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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:

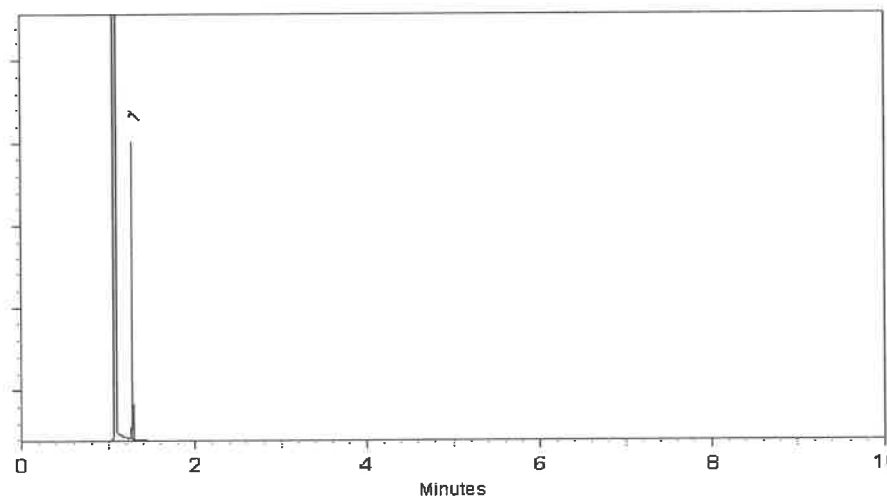
FID

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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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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:

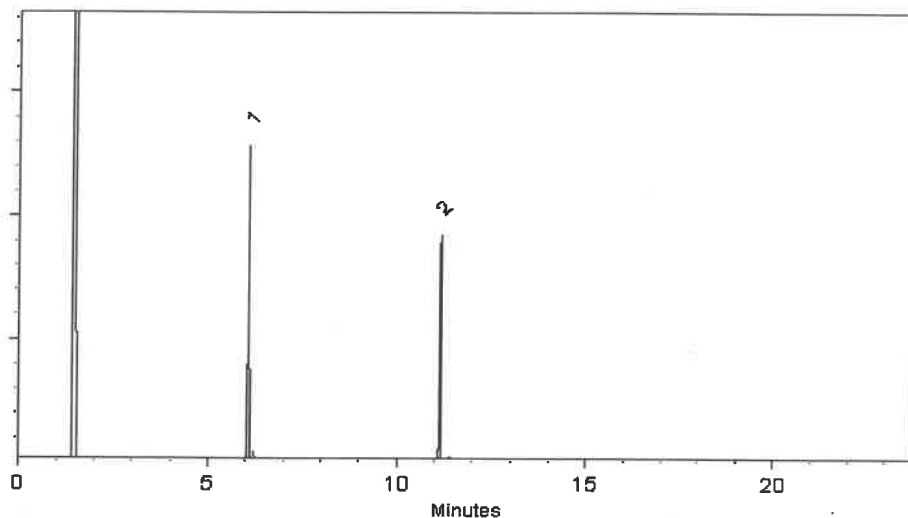
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

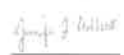


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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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:

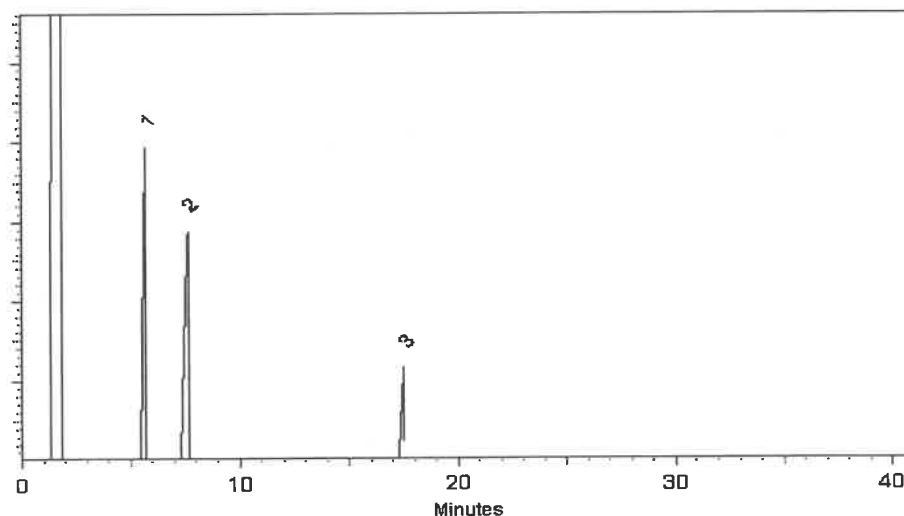
FID

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. : 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:

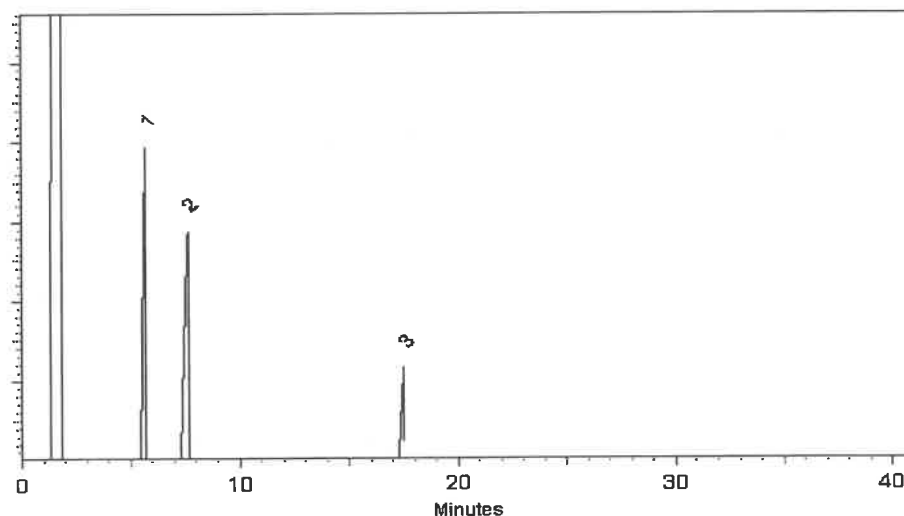
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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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:

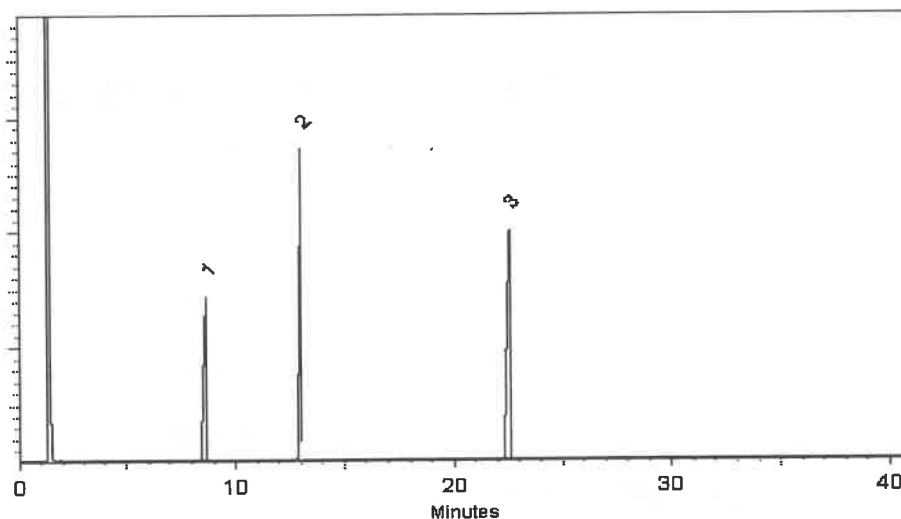
FID

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
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

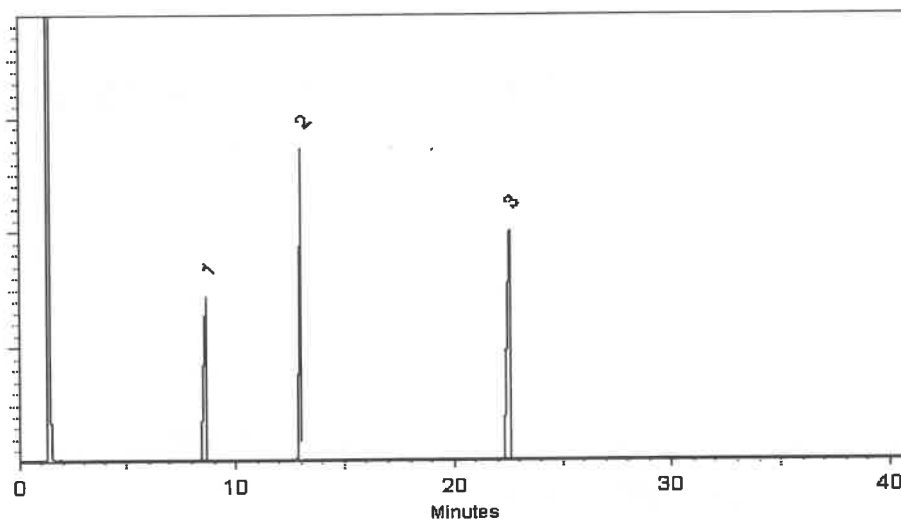
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E 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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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577
↓
S12579 } RC
8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

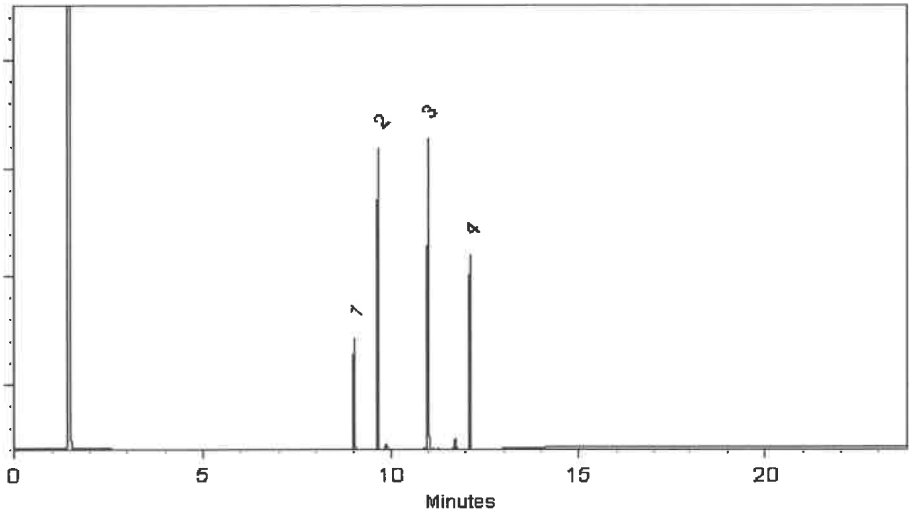
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

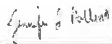
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline 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	531243	≤ -10 °C	Methylene Chloride	1/2/2030	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	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 } AC
↓
513061 } 1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Melissa Workoff

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.



SHIPPING DOCUMENTS

- 1
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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: 22881																					
				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: RW8		ADDRESS:																					
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:																					
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetrattech.com		ATTENTION: PHONE:																					
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148																							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS																					
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">1,4-Dioxane SW846 8270</td> <td style="width: 10%;">SIM</td> <td style="width: 10%;">Iron, Total</td> <td style="width: 10%;">TSS</td> <td style="width: 10%;">TDS</td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> <td style="width: 10%;"> </td> </tr> <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> <td></td> </tr> </table>		1,4-Dioxane SW846 8270	SIM	Iron, Total	TSS	TDS						1	2	3	4	5	6	7	8	9	
1,4-Dioxane SW846 8270	SIM	Iron, Total	TSS	TDS																					
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.	RW8-SP100-20250814	GW		8/14/25 13:05	4																				
2.	RW8-SP303-20250814	GW		8/14/25 13:13	4																				
3.																									
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 _____ MeOH extraction requires an additional 4oz. Jar for percent solid Comments:
1. <i>[Signature]</i>	8/14/25 15:00	<i>[Signature]</i>	
RELINQUISHED BY	DATE/TIME	RECEIVED BY	
2.		2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

Page _____ of _____

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight
 CHEMTECH: ☐ Picked Up ☐ Overnight

Shipment Complete
☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT
 YELLOW - CHEMTECH COPY
 PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037605.D
 Acq On : 19 Aug 2025 13:40
 Operator : RC/JU
 Sample : Q2842-04MS
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MS

Quant Time: Aug 20 01:25:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

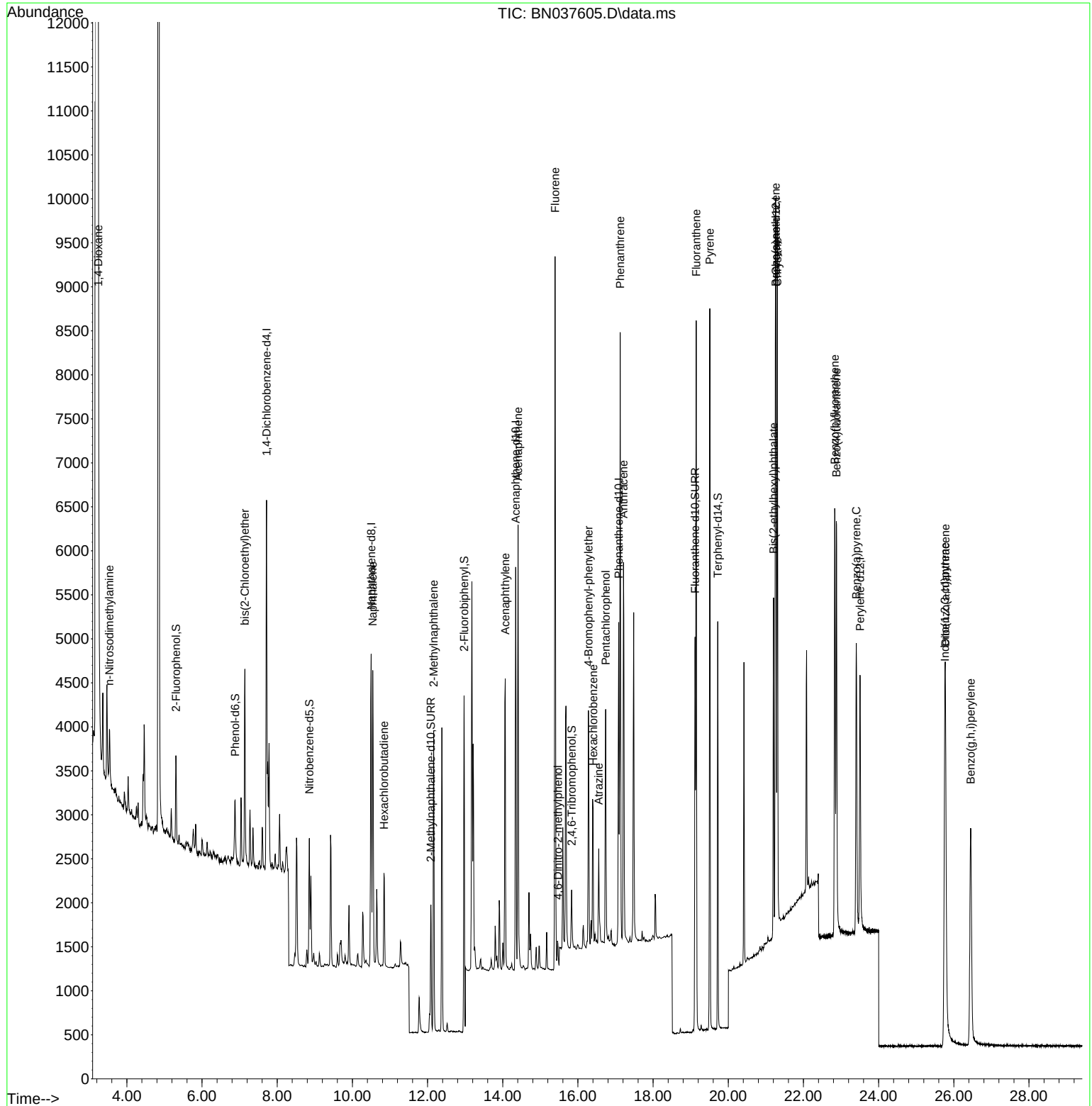
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2023	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4765	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2380	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4922	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4507	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	3909	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	698	0.152	ng	0.00
5) Phenol-d6	6.879	99	508	0.092	ng	0.00
8) Nitrobenzene-d5	8.854	82	1111	0.331	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	2352	0.363	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	392	0.376	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	4453	0.324	ng	0.00
27) Fluoranthene-d10	19.118	212	4870	0.376	ng	0.00
31) Terphenyl-d14	19.722	244	4344	0.468	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	5476	2.829	ng	# 90
3) n-Nitrosodimethylamine	3.536	42	418	0.169	ng	# 90
6) bis(2-Chloroethyl)ether	7.139	93	1634	0.329	ng	98
9) Naphthalene	10.541	128	4254	0.335	ng	98
10) Hexachlorobutadiene	10.840	225	924	0.298	ng	# 99
12) 2-Methylnaphthalene	12.162	142	2421	0.304	ng	99
16) Acenaphthylene	14.067	152	3870	0.363	ng	100
17) Acenaphthene	14.409	154	2473	0.341	ng	96
18) Fluorene	15.393	166	3340	0.352	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	226	0.434	ng	88
21) 4-Bromophenyl-phenylether	16.280	248	1089	0.352	ng	# 75
22) Hexachlorobenzene	16.404	284	1490	0.340	ng	99
23) Atrazine	16.553	200	797	0.456	ng	95
24) Pentachlorophenol	16.739	266	1320	0.857	ng	99
25) Phenanthrene	17.124	178	6725	0.449	ng	100
26) Anthracene	17.211	178	5205	0.393	ng	100
28) Fluoranthene	19.146	202	7212	0.420	ng	100
30) Pyrene	19.508	202	6994	0.415	ng	100
32) Benzo(a)anthracene	21.259	228	6028	0.400	ng	99
33) Chrysene	21.304	228	6700	0.399	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3417	0.550	ng	99
36) Indeno(1,2,3-cd)pyrene	25.759	276	6122	0.372	ng	99
37) Benzo(b)fluoranthene	22.832	252	6094	0.411	ng	99
38) Benzo(k)fluoranthene	22.876	252	6247	0.374	ng	98
39) Benzo(a)pyrene	23.405	252	5054	0.411	ng	99
40) Dibenzo(a,h)anthracene	25.779	278	4709	0.368	ng	99
41) Benzo(g,h,i)perylene	26.449	276	5269	0.391	ng	100

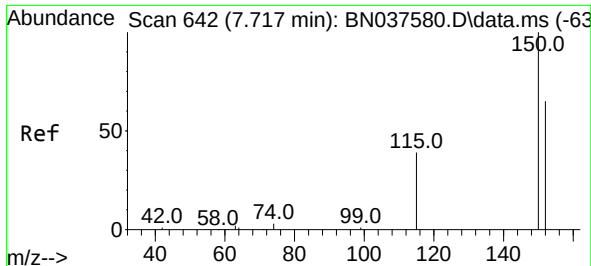
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037605.D
Acq On : 19 Aug 2025 13:40
Operator : RC/JU
Sample : Q2842-04MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

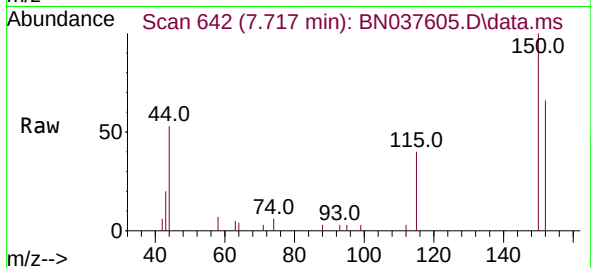
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



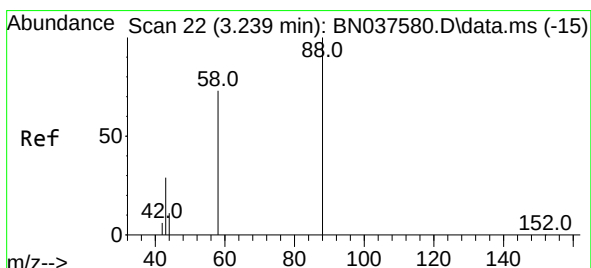
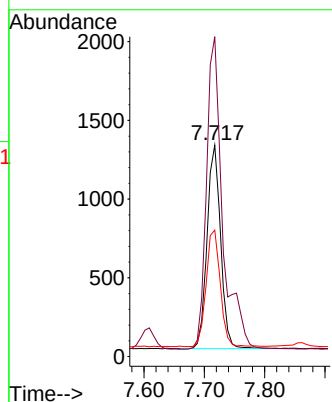
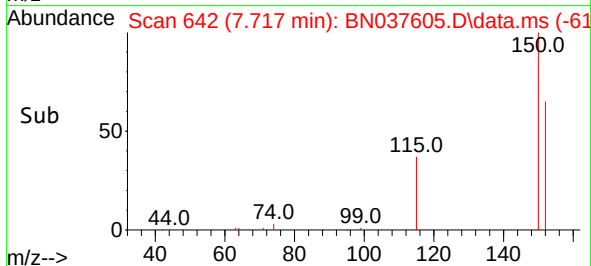


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. 0.000 min
 Lab File: BN037605.D
 Acq: 19 Aug 2025 13:40

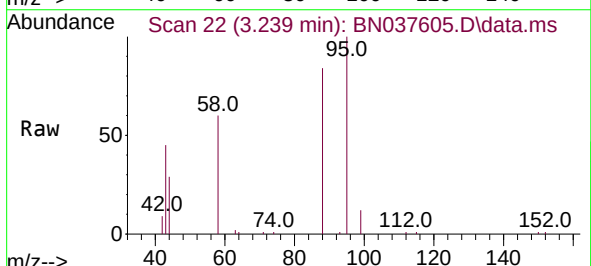
Instrument :
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 ClientSampleId :
 MW-17B-55.5-081225MS



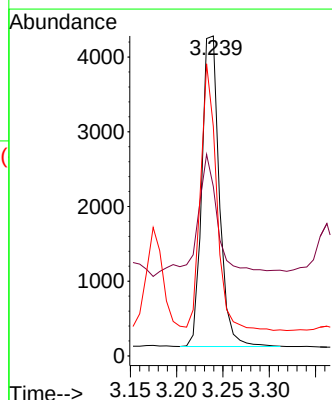
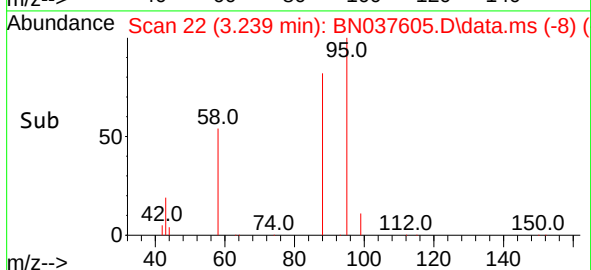
Tgt Ion: 152 Resp: 2023
 Ion Ratio Lower Upper
 152 100
 150 151.3 122.2 183.4
 115 59.8 49.8 74.6

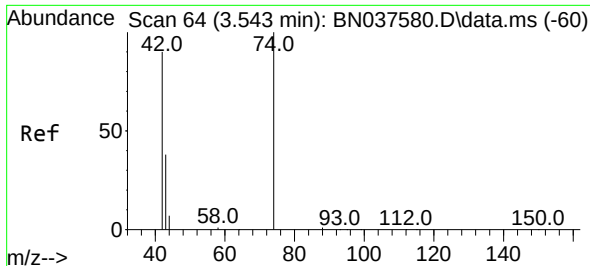


#2
 1,4-Dioxane
 Concen: 2.829 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN037605.D
 Acq: 19 Aug 2025 13:40



Tgt Ion: 88 Resp: 5476
 Ion Ratio Lower Upper
 88 100
 43 48.7 25.8 38.6#
 58 78.4 61.2 91.8

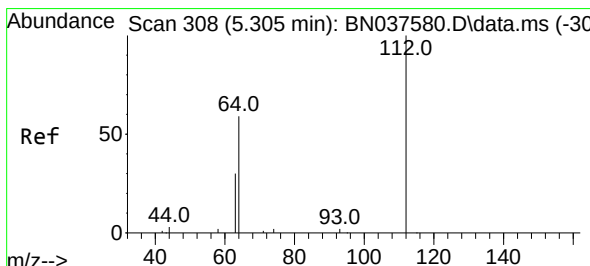
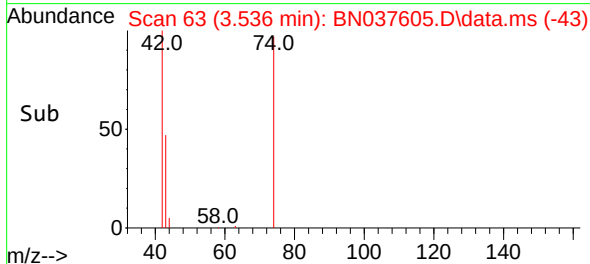
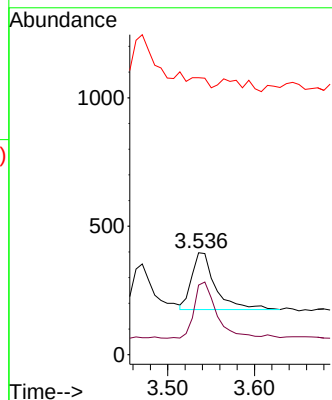
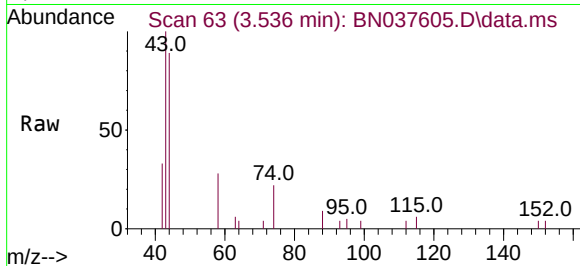




#3
 n-Nitrosodimethylamine
 Concen: 0.169 ng
 RT: 3.536 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN037605.D
 Acq: 19 Aug 2025 13:40

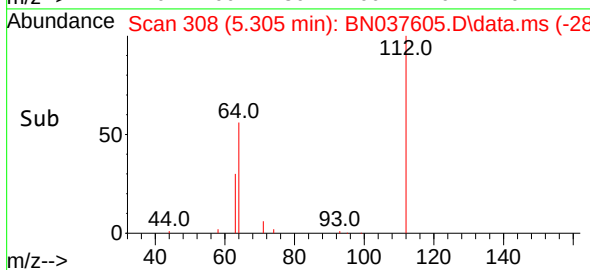
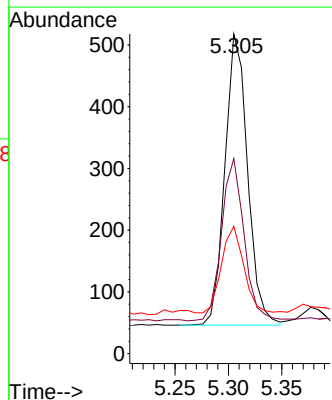
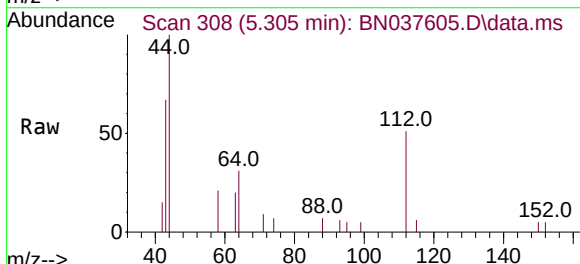
Instrument :
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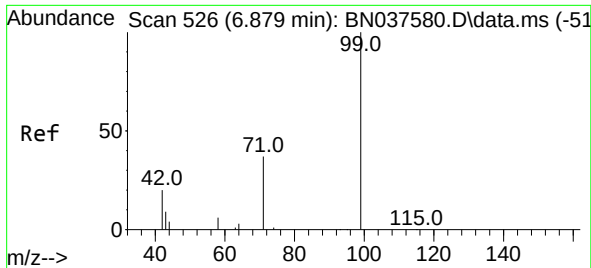
Tgt Ion: 42 Resp: 418
 Ion Ratio Lower Upper
 42 100
 74 94.0 82.0 123.0
 44 0.0 7.9 11.9#



#4
 2-Fluorophenol
 Concen: 0.152 ng
 RT: 5.305 min Scan# 308
 Delta R.T. 0.000 min
 Lab File: BN037605.D
 Acq: 19 Aug 2025 13:40

Tgt Ion: 112 Resp: 698
 Ion Ratio Lower Upper
 112 100
 64 55.6 44.9 67.3
 63 29.5 23.4 35.2

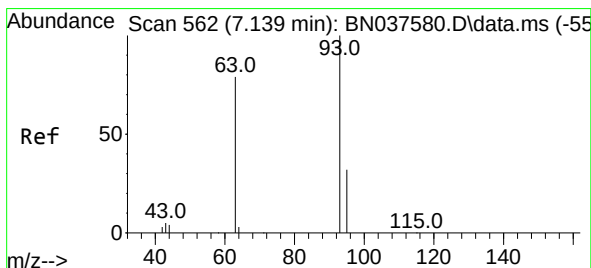
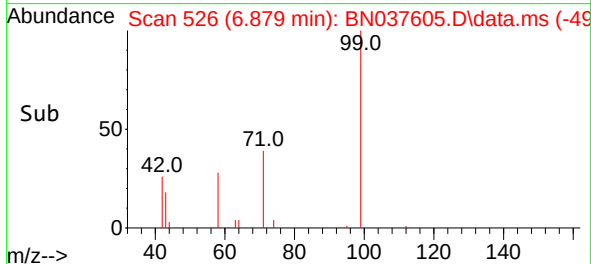
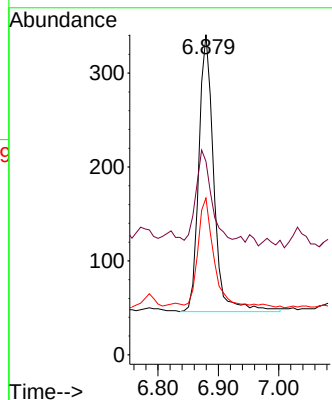
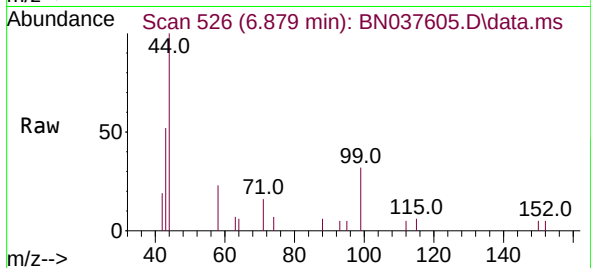




#5
Phenol-d6
Concen: 0.092 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

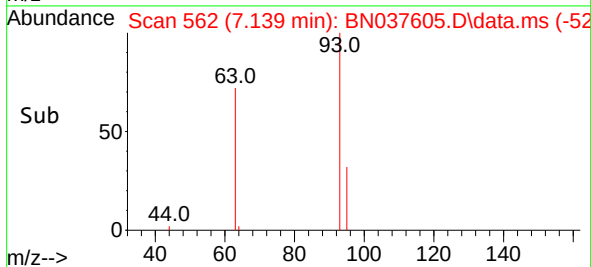
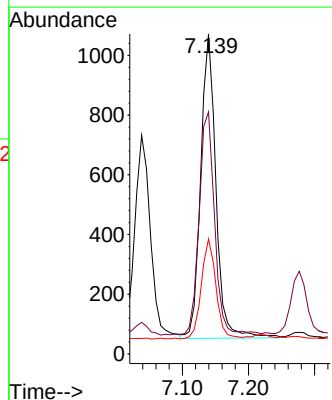
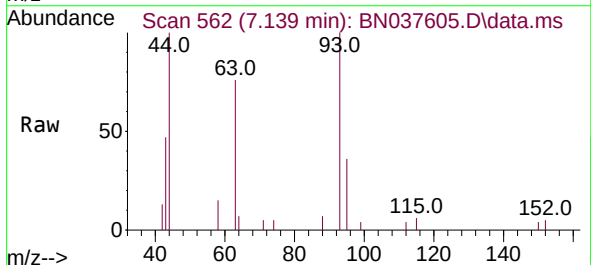
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

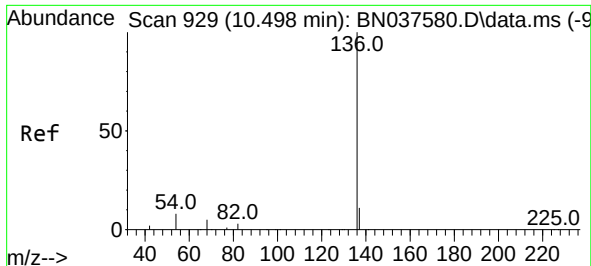
Tgt Ion: 99 Resp: 508
Ion Ratio Lower Upper
99 100
42 32.3 18.5 27.7#
71 39.4 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.329 ng
RT: 7.139 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion: 93 Resp: 1634
Ion Ratio Lower Upper
93 100
63 74.9 58.0 87.0
95 31.4 24.9 37.3

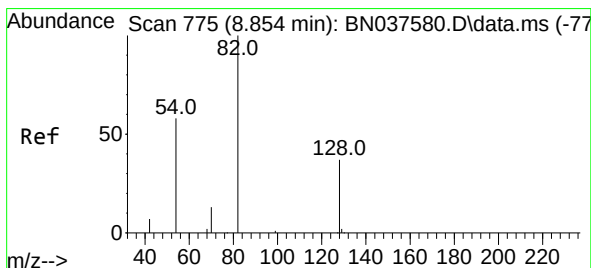
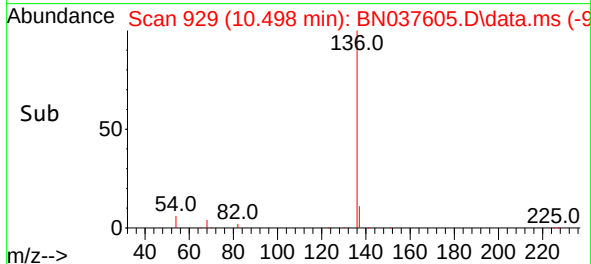
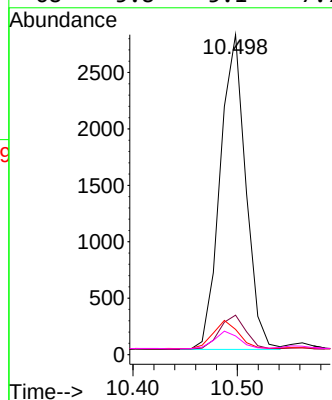
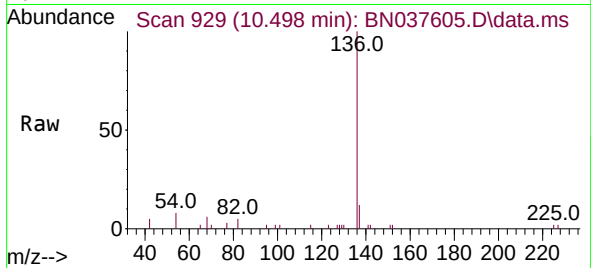




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

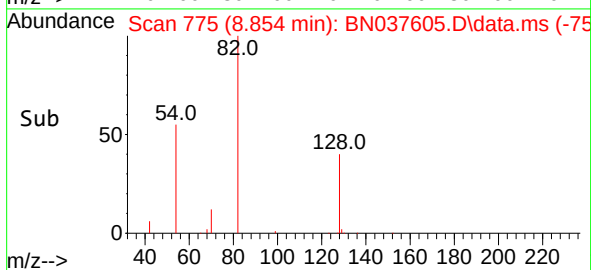
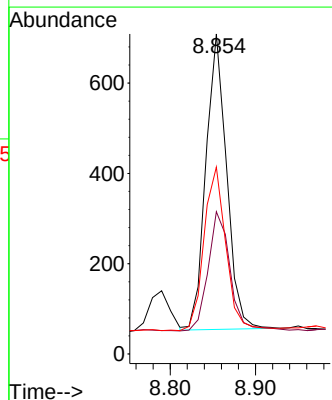
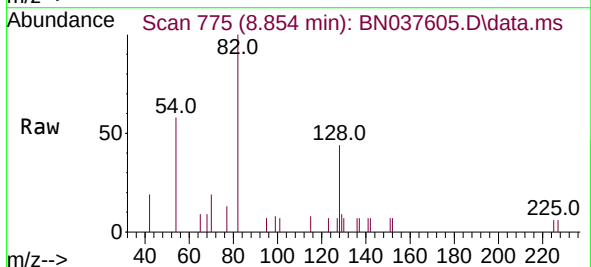
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

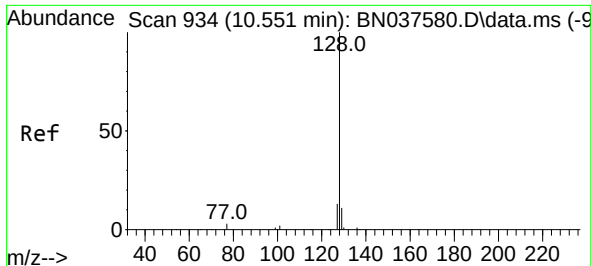
Tgt Ion:	136	Resp:	4765
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.5	14.3
54	7.9	7.3	10.9
68	5.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:	82	Resp:	1111
Ion	Ratio	Lower	Upper
82	100		
128	44.4	32.6	48.8
54	58.4	48.9	73.3

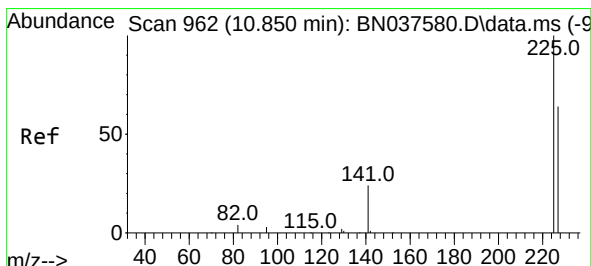
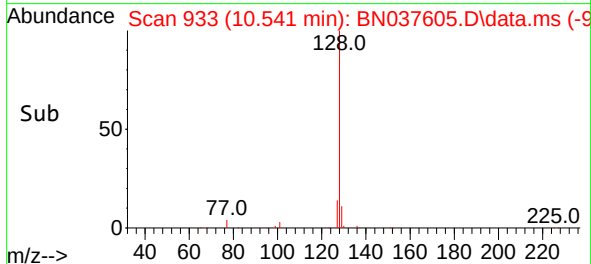
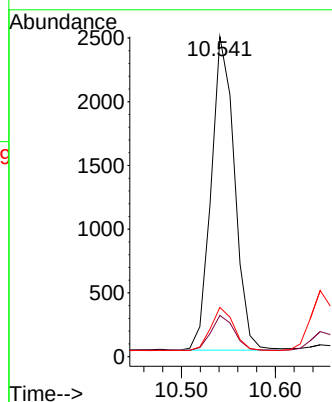
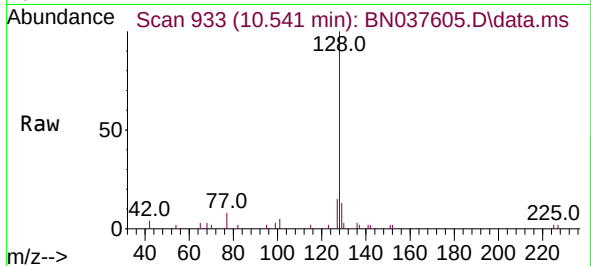




#9
Naphthalene
Concen: 0.335 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

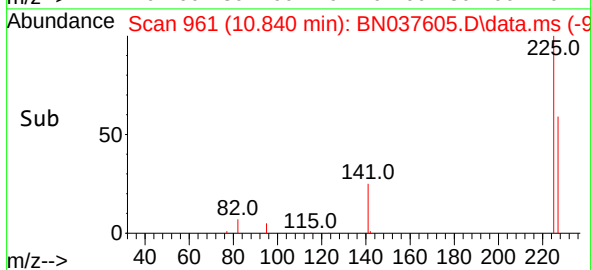
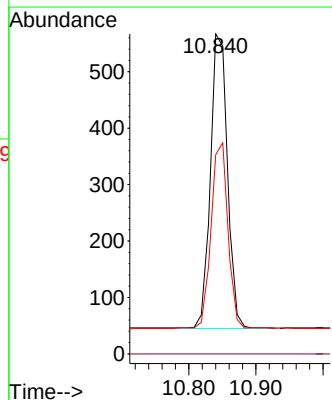
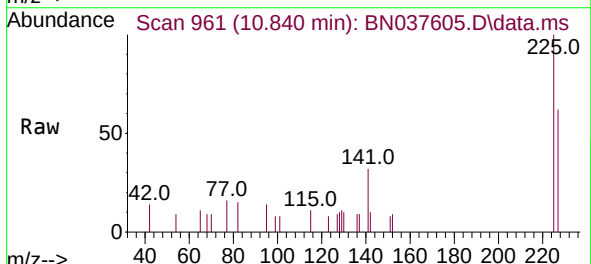
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

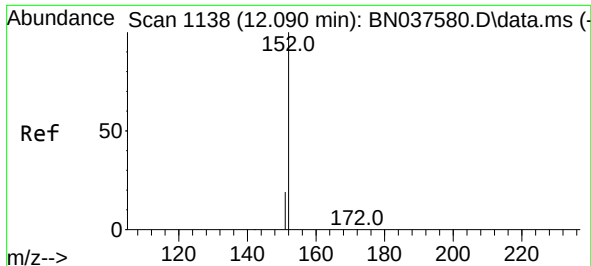
Tgt Ion:	128	Resp:	4254
Ion	Ratio	Lower	Upper
128	100		
129	12.9	9.8	14.6
127	15.4	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.298 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:	225	Resp:	924
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.3	50.8	76.2

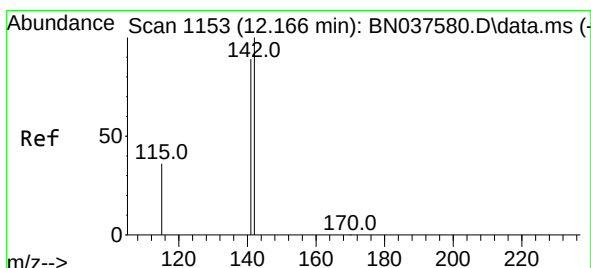
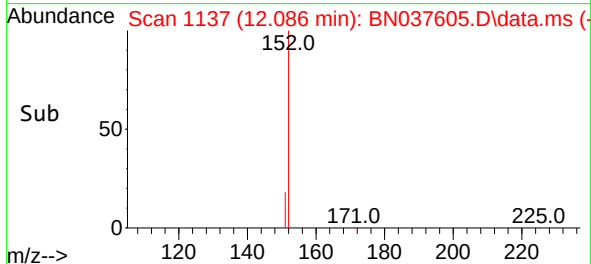
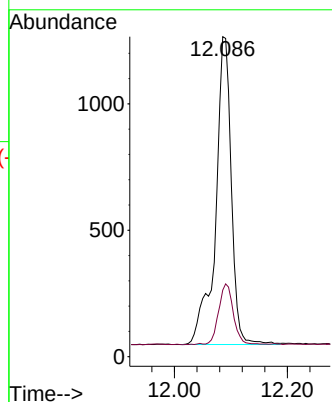
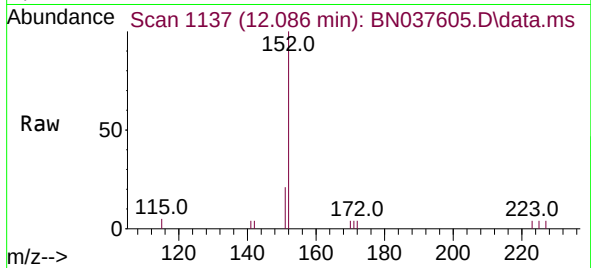




#11
2-Methylnaphthalene-d10
Concen: 0.363 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

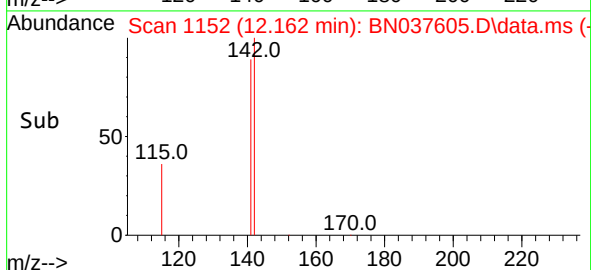
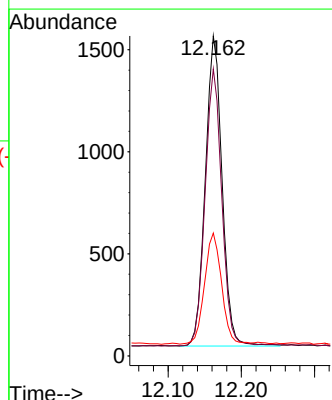
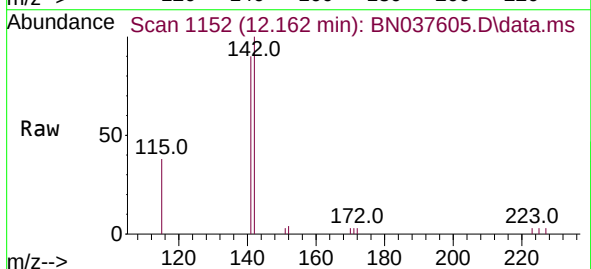
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

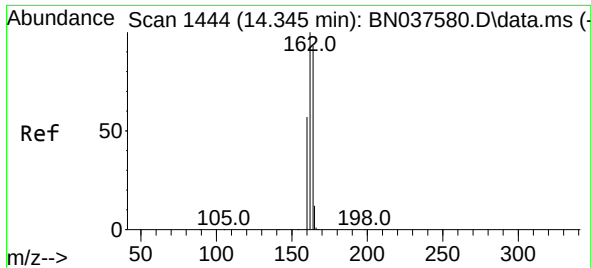
Tgt Ion:152 Resp: 2352
Ion Ratio Lower Upper
152 100
151 18.8 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.304 ng
RT: 12.162 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:142 Resp: 2421
Ion Ratio Lower Upper
142 100
141 89.7 71.4 107.0
115 38.4 30.2 45.4

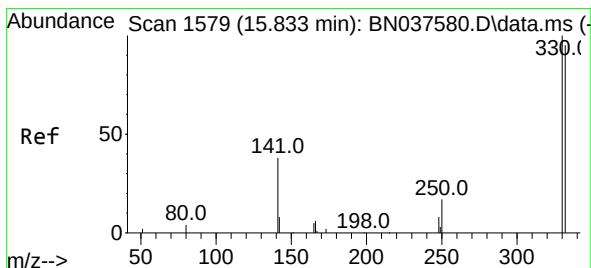
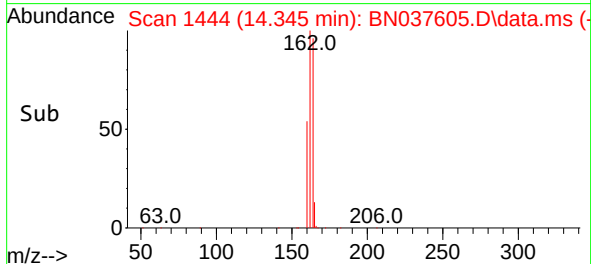
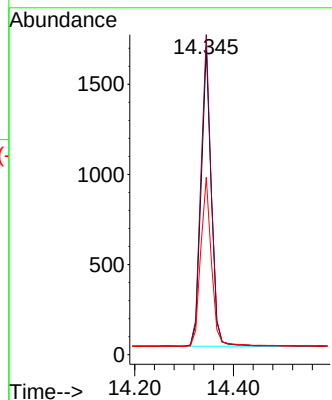
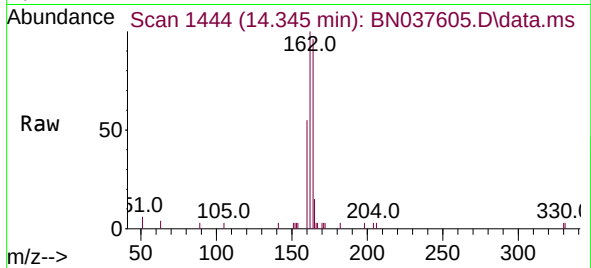




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

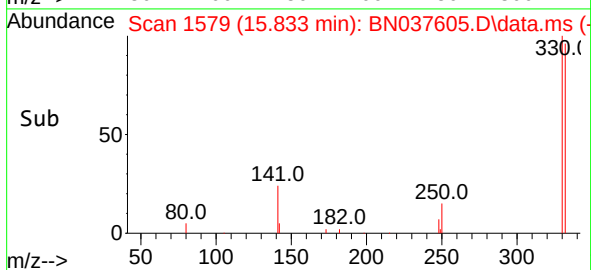
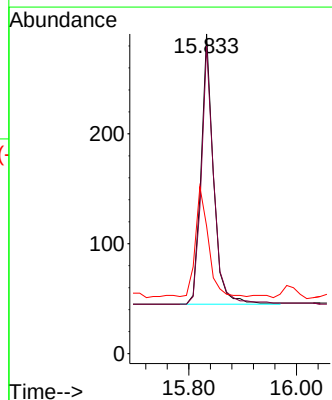
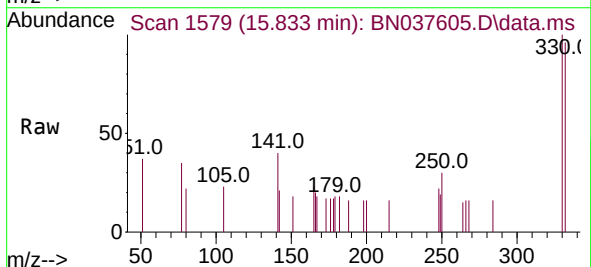
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

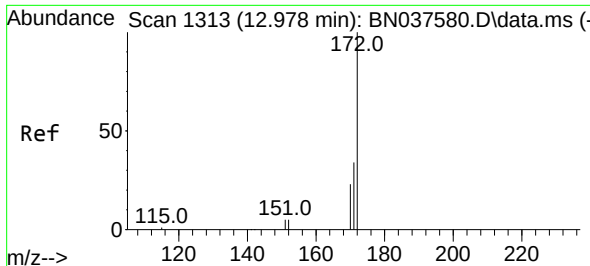
Tgt Ion:	164	Resp:	2380
Ion	Ratio	Lower	Upper
164	100		
162	103.9	85.5	128.3
160	57.6	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.376 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:	330	Resp:	392
Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.4	116.0
141	43.4	30.9	46.3

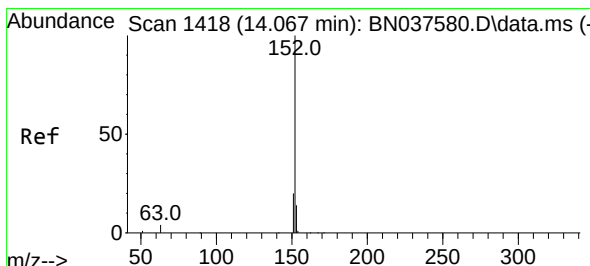
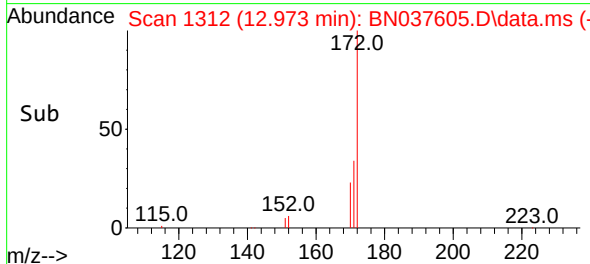
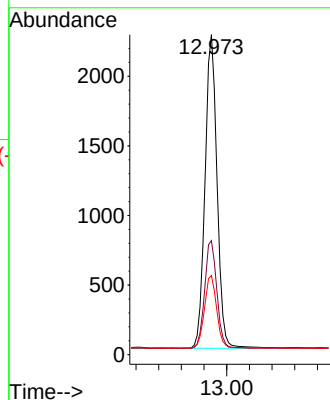
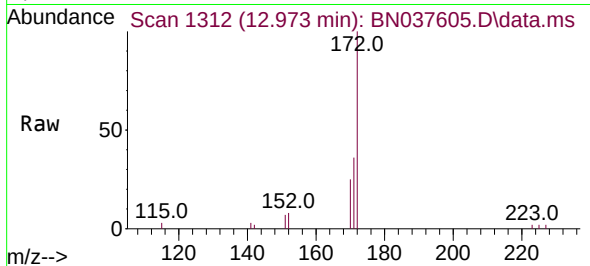




#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 12.973 min Scan# 1313
Delta R.T. -0.005 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

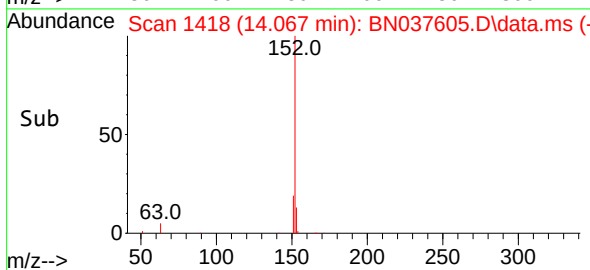
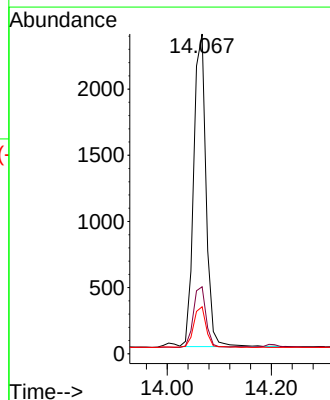
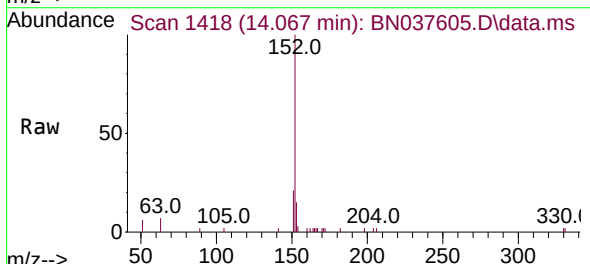
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

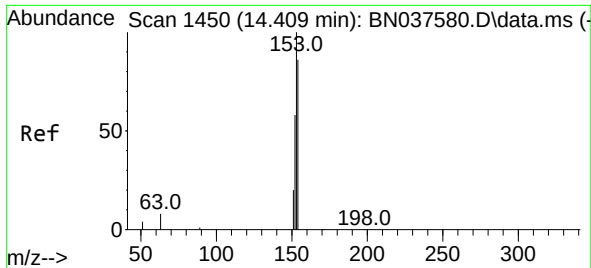
Tgt Ion:172	Resp:	4453
Ion Ratio	Lower	Upper
172	100	
171	35.6	28.2 42.4
170	24.7	19.2 28.8



#16
Acenaphthylene
Concen: 0.363 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:152	Resp:	3870
Ion Ratio	Lower	Upper
152	100	
151	20.2	16.1 24.1
153	13.5	10.7 16.1

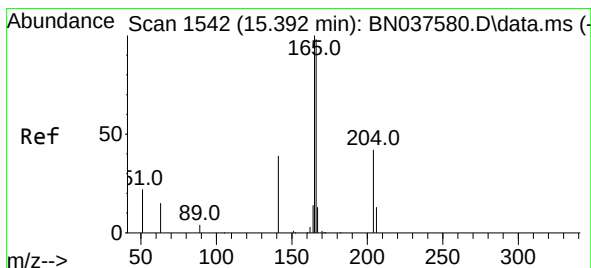
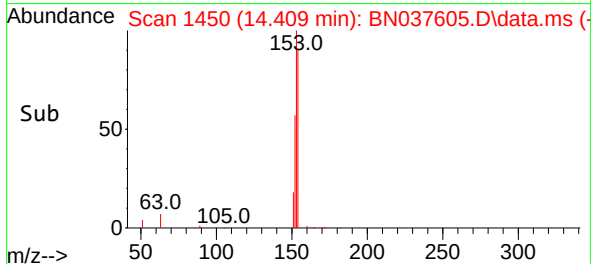
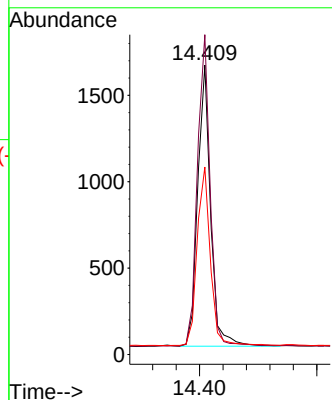
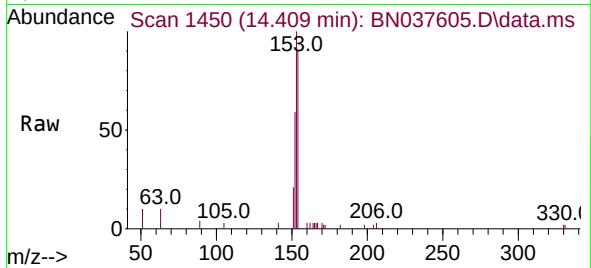




#17
Acenaphthene
Concen: 0.341 ng
RT: 14.409 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

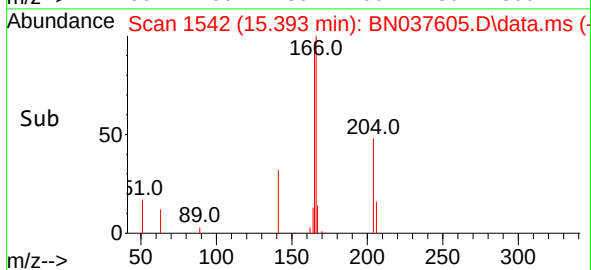
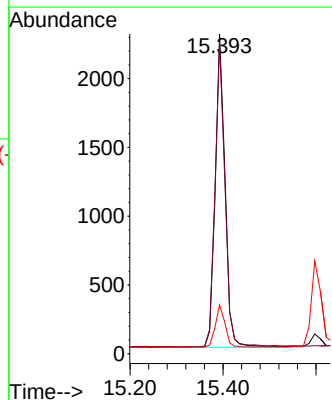
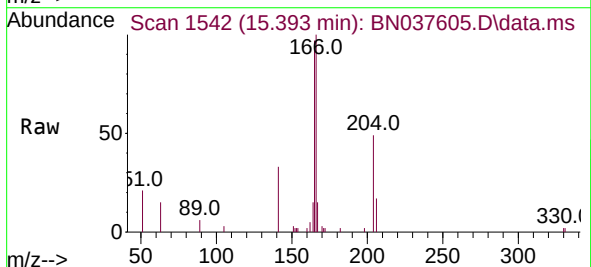
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

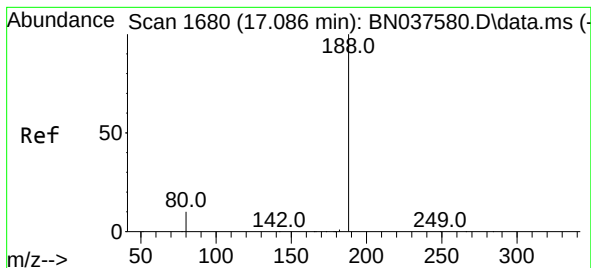
Tgt Ion:	154	Resp:	2473
Ion Ratio	Lower	Upper	
154	100		
153	109.5	90.6	135.8
152	65.1	54.9	82.3



#18
Fluorene
Concen: 0.352 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:	166	Resp:	3340
Ion Ratio	Lower	Upper	
166	100		
165	97.2	78.9	118.3
167	13.5	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS

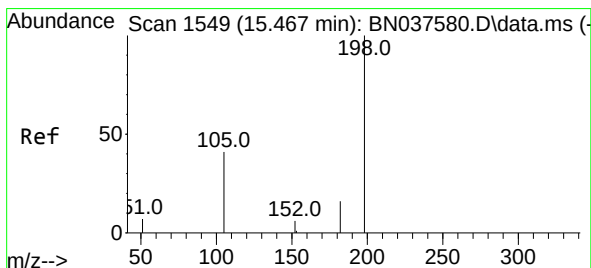
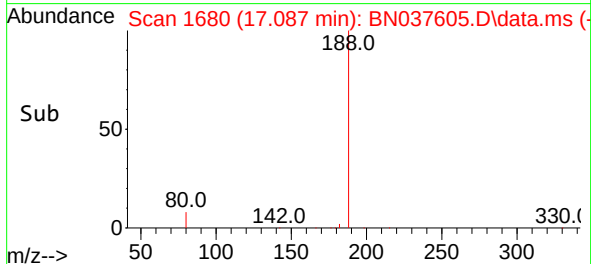
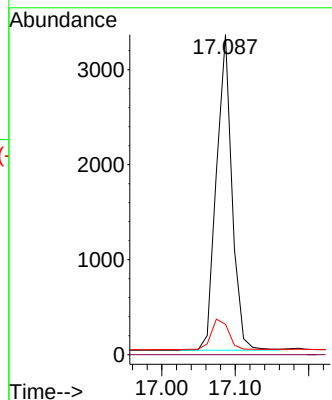
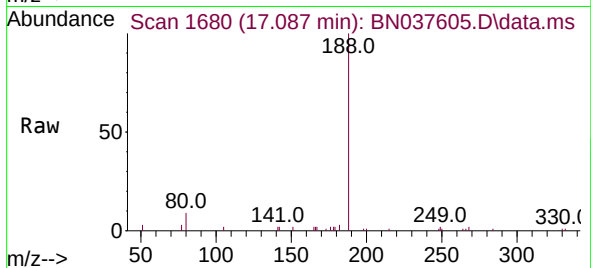
Tgt Ion:188 Resp: 4922

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.434 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

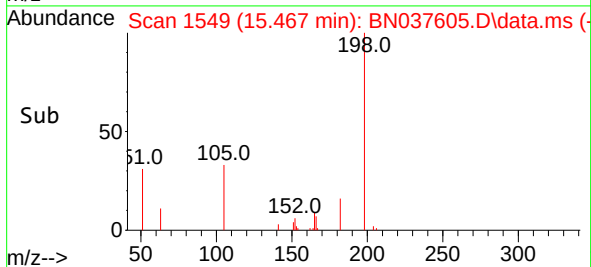
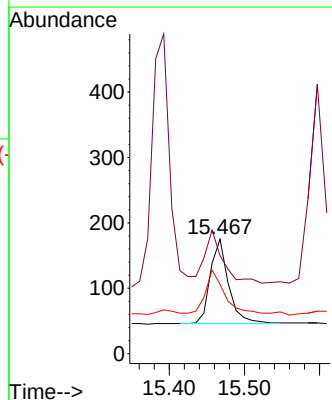
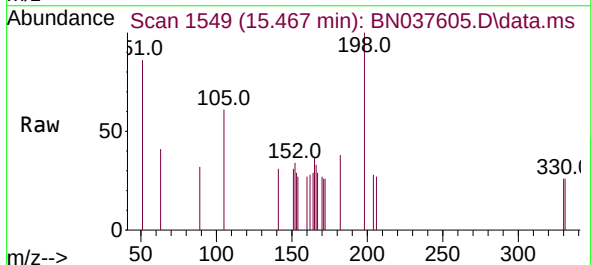
Tgt Ion:198 Resp: 226

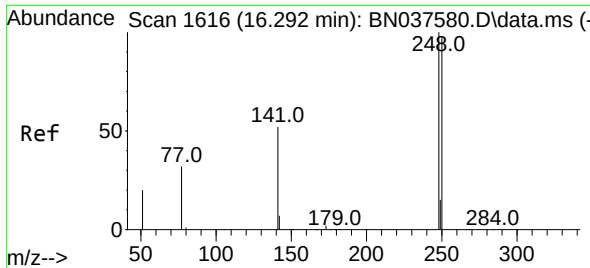
Ion Ratio Lower Upper

198 100

51 85.7 81.0 121.6

105 60.6 52.5 78.7

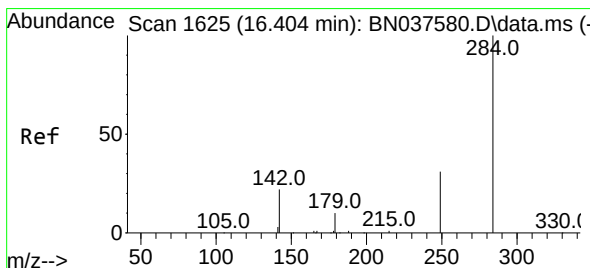
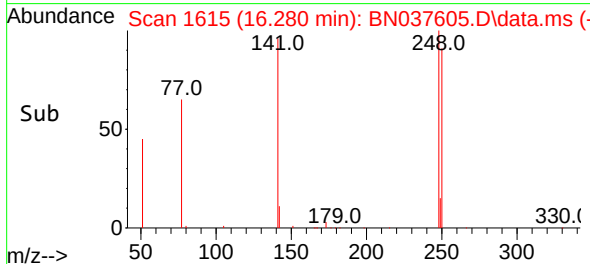
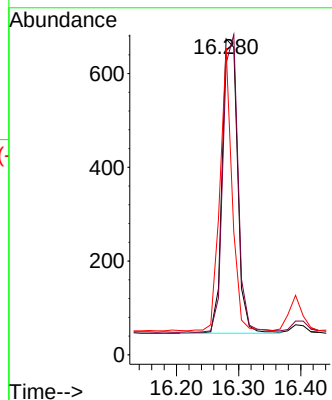
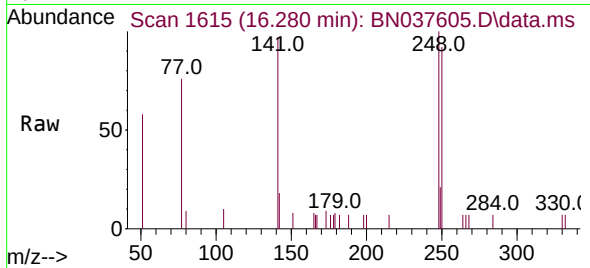




#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

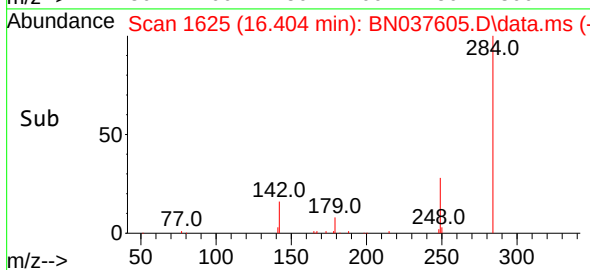
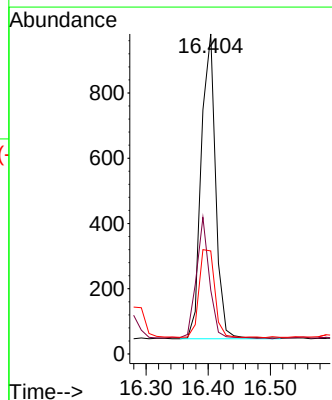
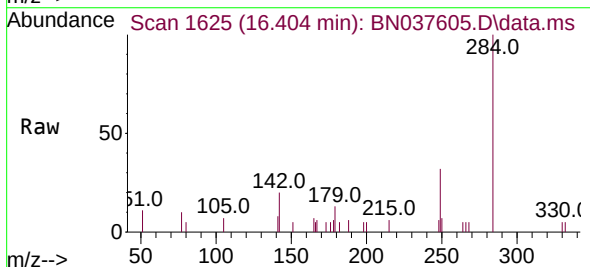
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

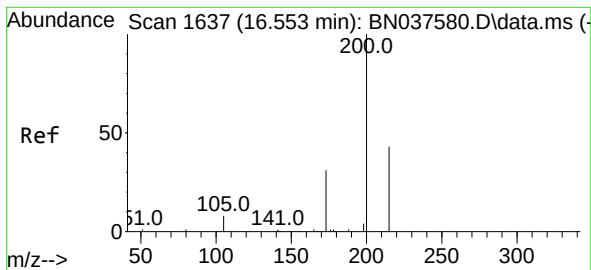
Tgt Ion:248 Resp: 1089
Ion Ratio Lower Upper
248 100
250 92.3 78.6 118.0
141 97.0 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.340 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:284 Resp: 1490
Ion Ratio Lower Upper
284 100
142 37.3 29.8 44.6
249 32.0 26.0 39.0





#23

Atrazine

Concen: 0.456 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

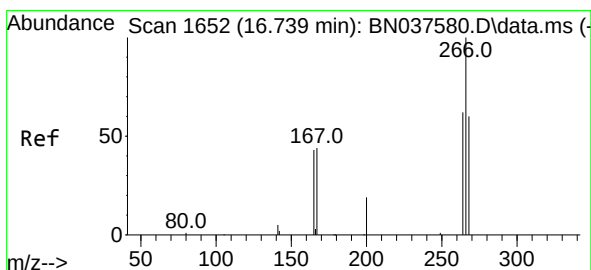
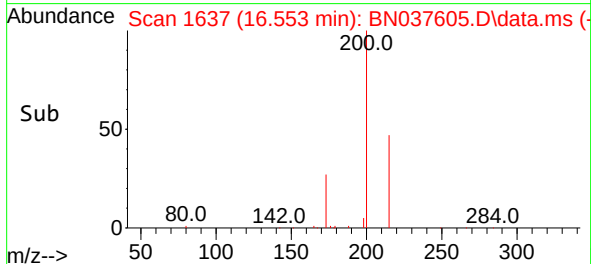
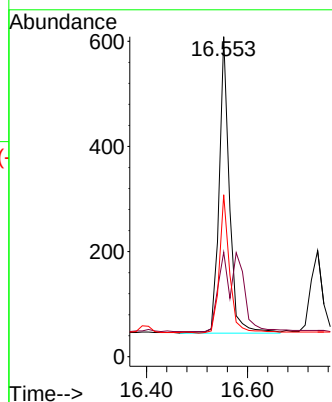
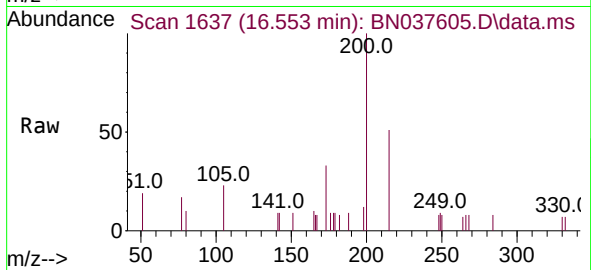
Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS

Tgt Ion:	200	Resp:	797
Ion Ratio	Lower	Upper	
200	100		
173	32.7	31.0	46.4
215	50.6	39.4	59.0



#24

Pentachlorophenol

Concen: 0.857 ng

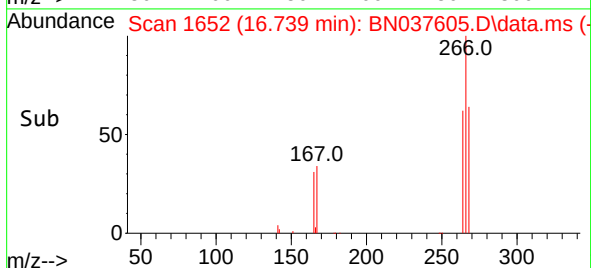
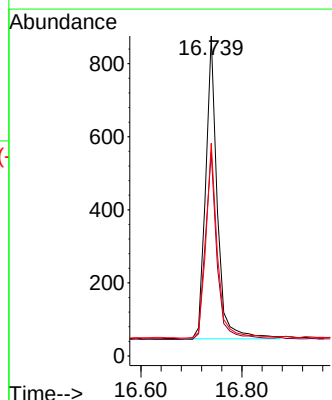
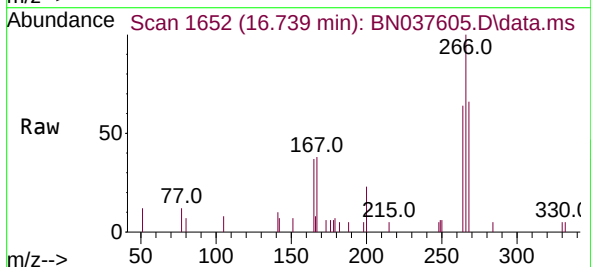
RT: 16.739 min Scan# 1652

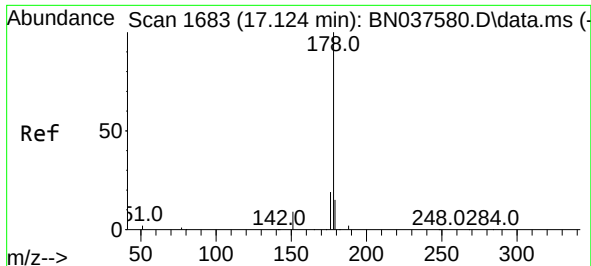
Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Tgt Ion:	266	Resp:	1320
Ion Ratio	Lower	Upper	
266	100		
264	62.0	49.6	74.4
268	63.6	49.2	73.8

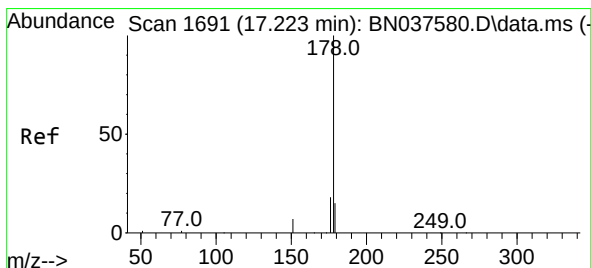
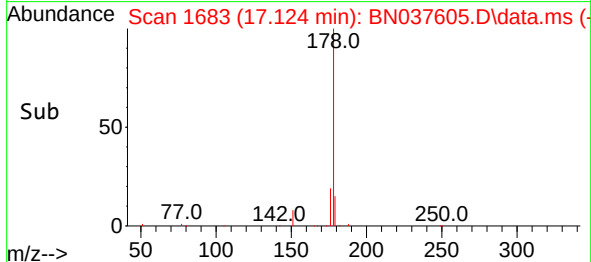
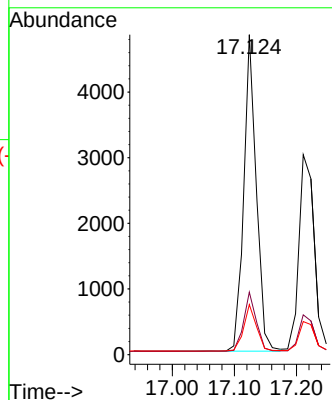
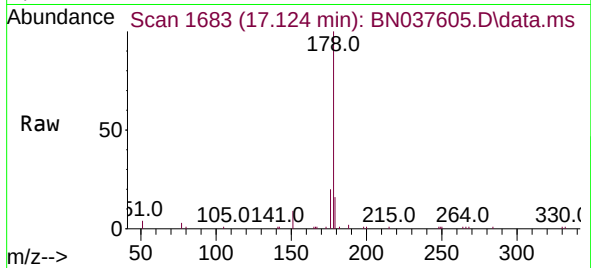




#25
Phenanthrene
Concen: 0.449 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

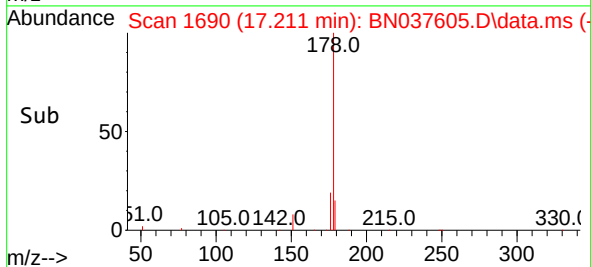
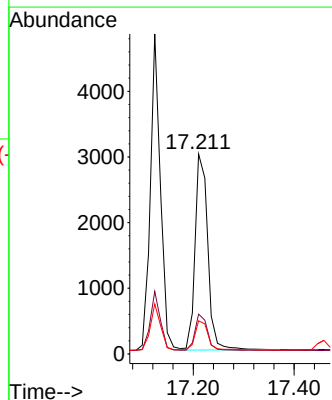
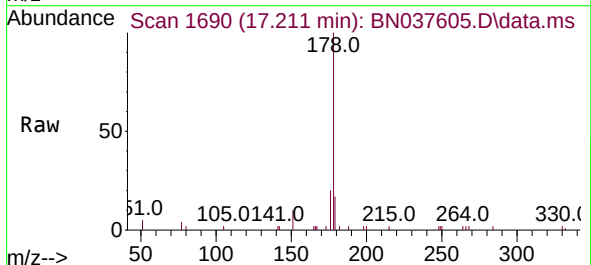
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

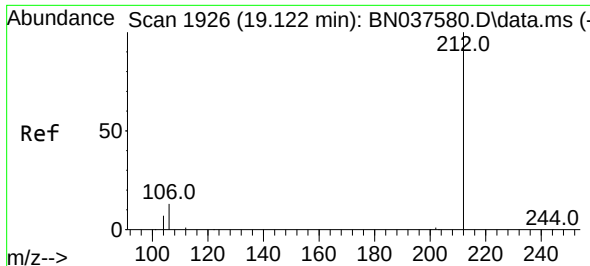
Tgt Ion:178 Resp: 6725
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.6
179 15.1 12.3 18.5



#26
Anthracene
Concen: 0.393 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:178 Resp: 5205
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.5 12.3 18.5

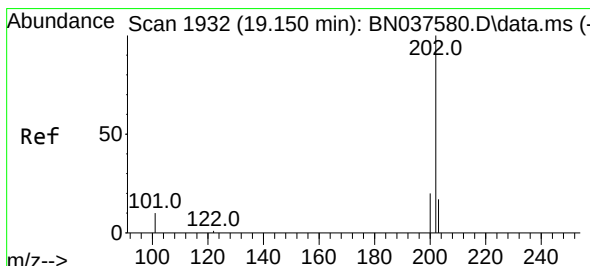
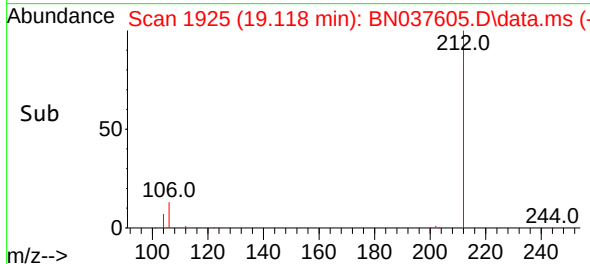
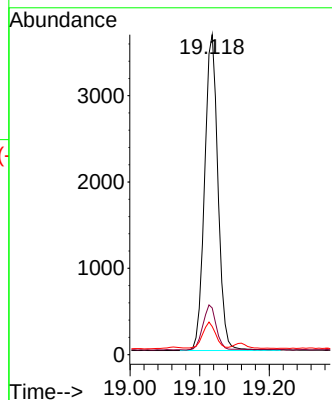
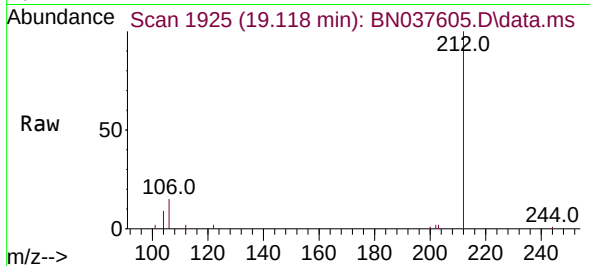




#27
Fluoranthene-d10
Concen: 0.376 ng
RT: 19.118 min Scan# 1911
Delta R.T. -0.004 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

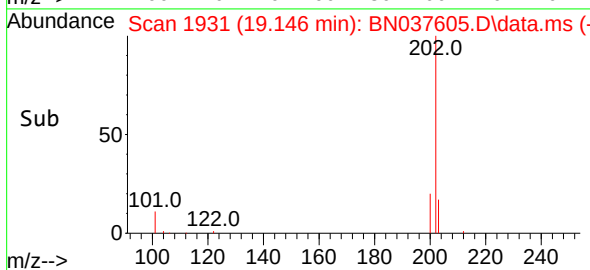
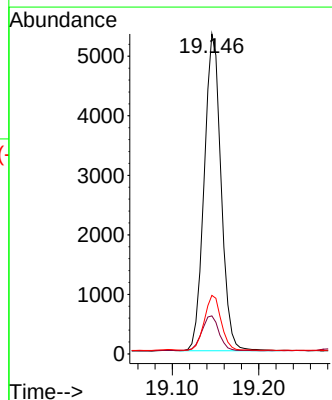
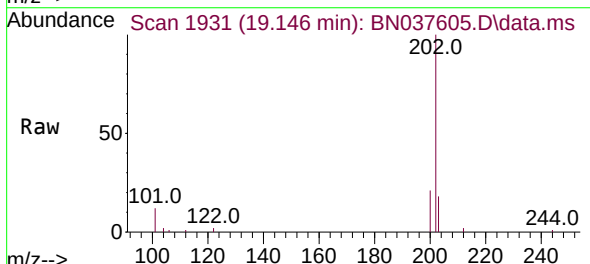
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MS

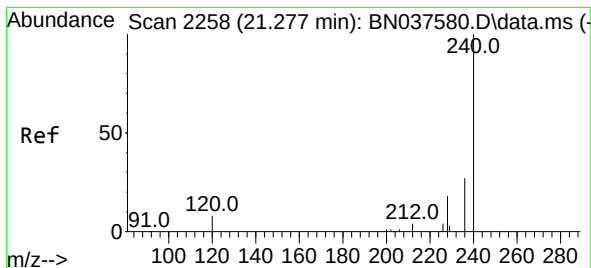
Tgt Ion:	212	Resp:	4870
Ion Ratio	Lower	Upper	
212	100		
106	14.4	11.5	17.3
104	8.1	6.6	9.8



#28
Fluoranthene
Concen: 0.420 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037605.D
Acq: 19 Aug 2025 13:40

Tgt Ion:	202	Resp:	7212
Ion Ratio	Lower	Upper	
202	100		
101	11.4	9.0	13.6
203	17.2	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037605.D

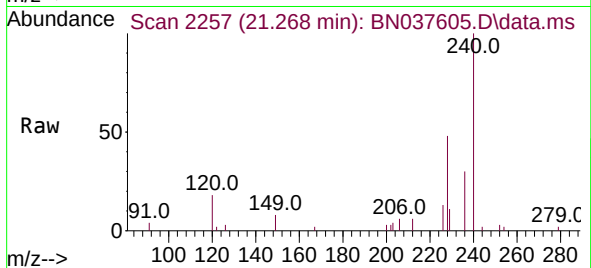
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



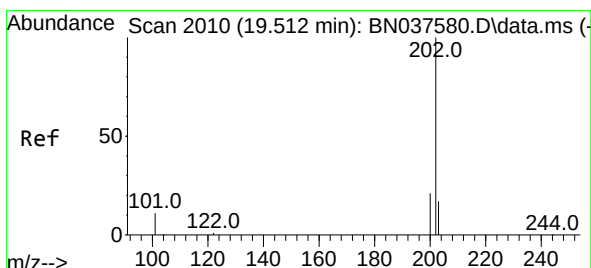
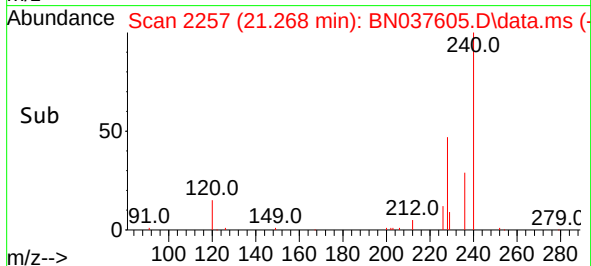
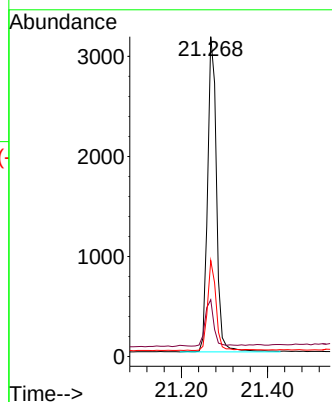
Tgt Ion:240 Resp: 4507

Ion Ratio Lower Upper

240 100

120 17.8 8.9 13.3#

236 30.0 22.6 33.8



#30

Pyrene

Concen: 0.415 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.004 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

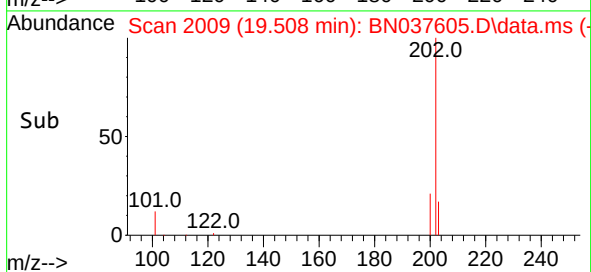
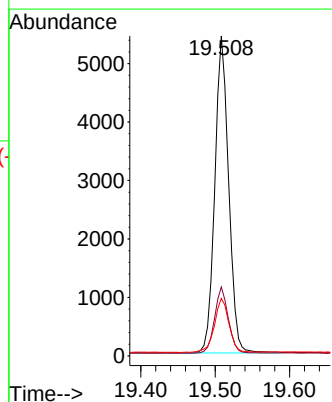
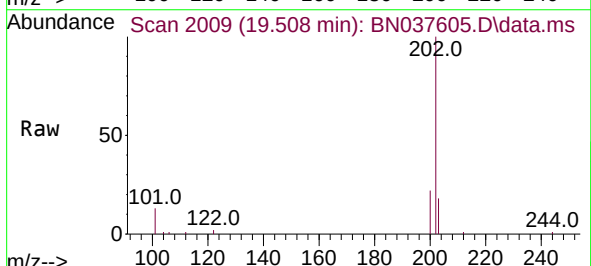
Tgt Ion:202 Resp: 6994

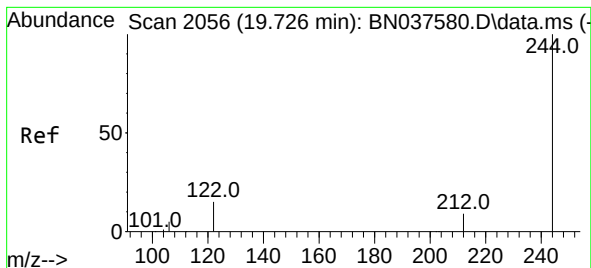
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.9 14.3 21.5





#31

Terphenyl-d14

Concen: 0.468 ng

RT: 19.722 min Scan# 2056

Delta R.T. -0.004 min

Lab File: BN037605.D

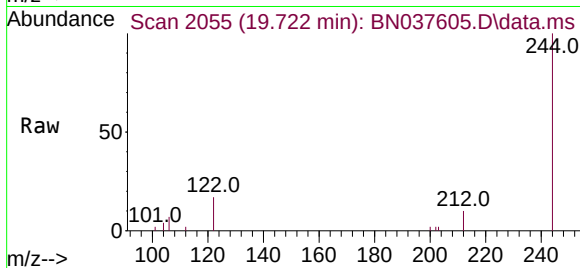
Acq: 19 Aug 2025 13:40

Instrument :

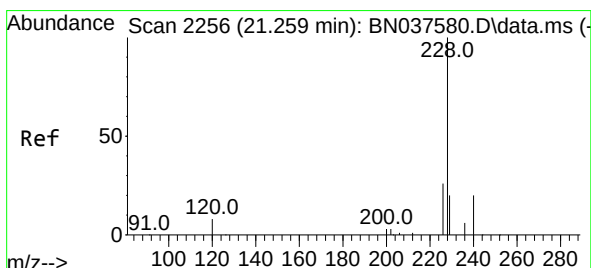
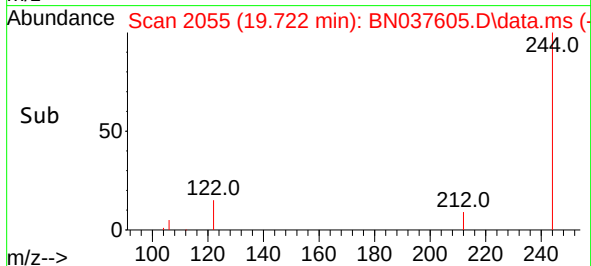
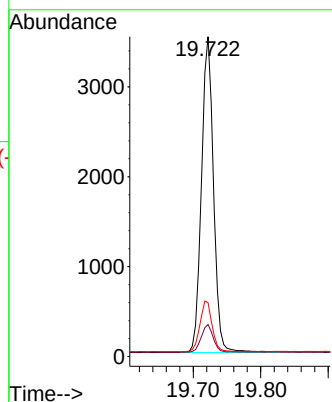
BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion:	244	Resp:	4344
Ion Ratio	Lower	Upper	
244	100		
212	10.0	8.2	12.2
122	16.9	13.2	19.8



#32

Benzo(a)anthracene

Concen: 0.400 ng

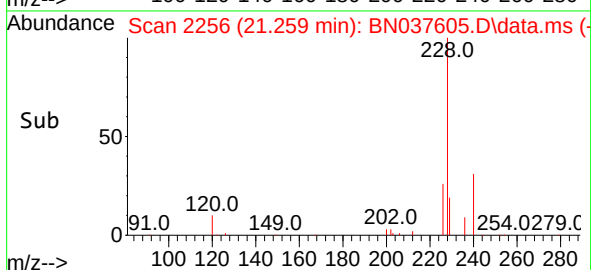
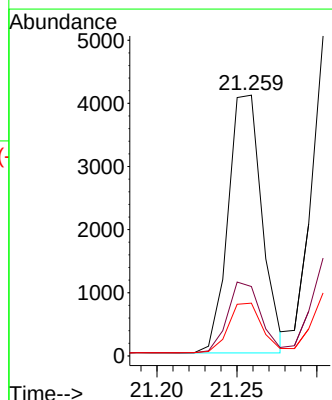
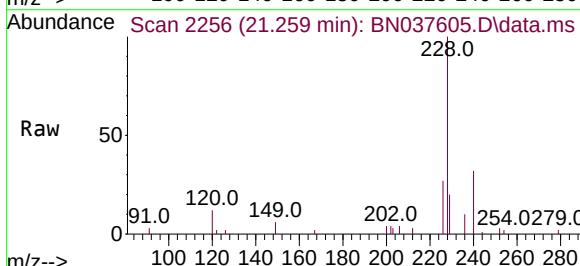
RT: 21.259 min Scan# 2256

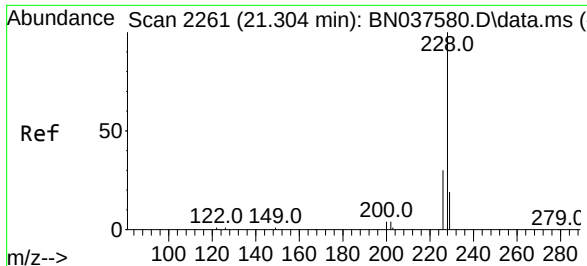
Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Tgt Ion:	228	Resp:	6028
Ion Ratio	Lower	Upper	
228	100		
226	26.6	21.5	32.3
229	20.2	16.5	24.7





#33

Chrysene

Concen: 0.399 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037605.D

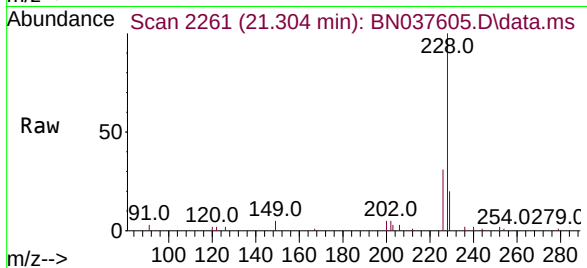
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



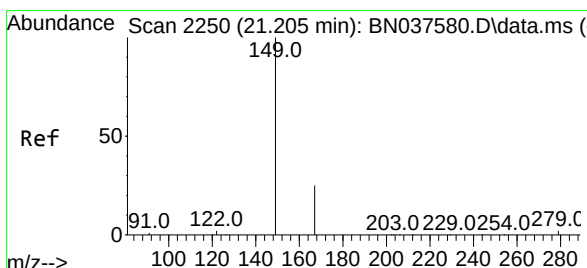
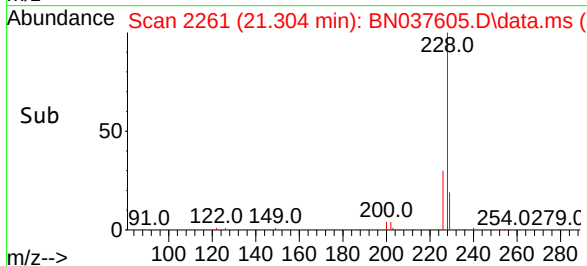
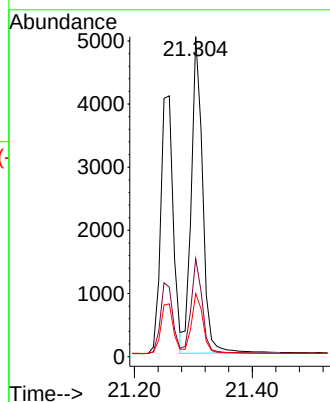
Tgt Ion:228 Resp: 6700

Ion Ratio Lower Upper

228 100

226 30.6 24.9 37.3

229 19.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.550 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

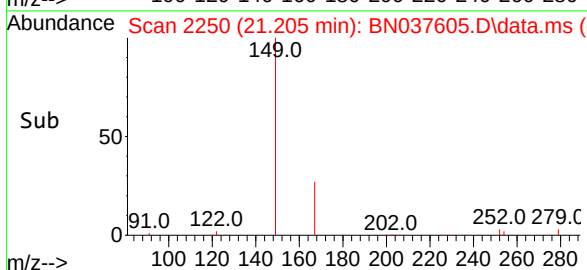
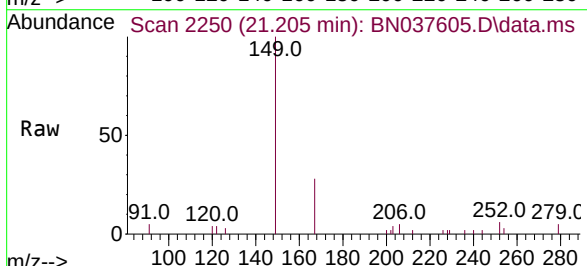
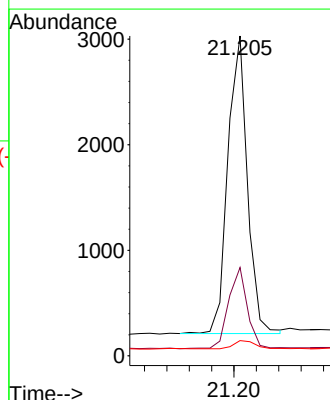
Tgt Ion:149 Resp: 3417

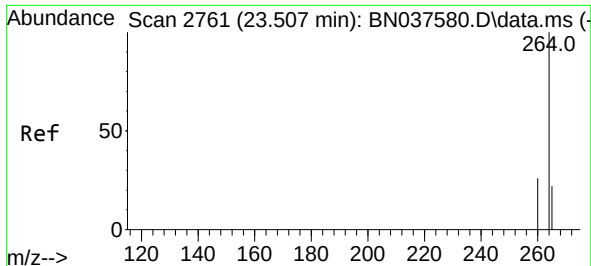
Ion Ratio Lower Upper

149 100

167 26.4 20.5 30.7

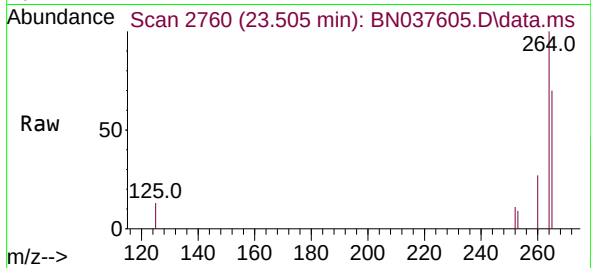
279 3.0 2.6 4.0





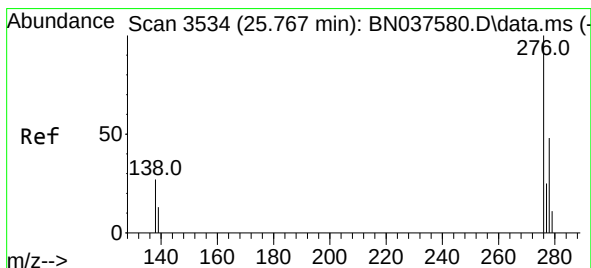
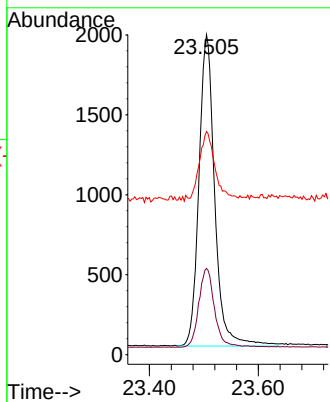
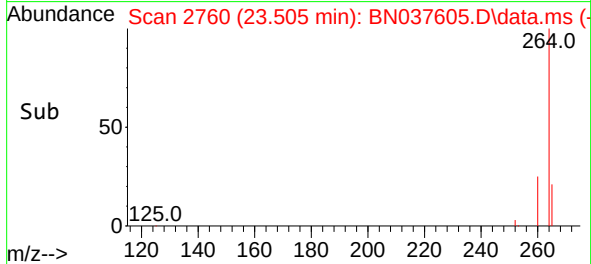
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.505 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN037605.D
 Acq: 19 Aug 2025 13:40

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MS

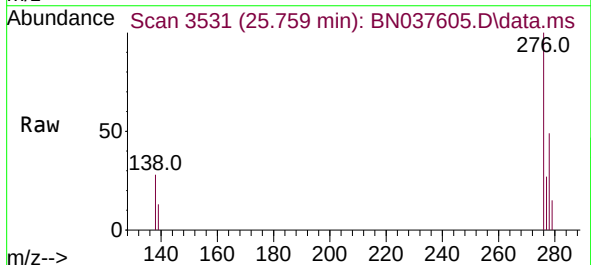


Tgt Ion: 264 Resp: 3909

Ion	Ratio	Lower	Upper
264	100		
260	26.9	21.6	32.4
265	69.7	48.2	72.4

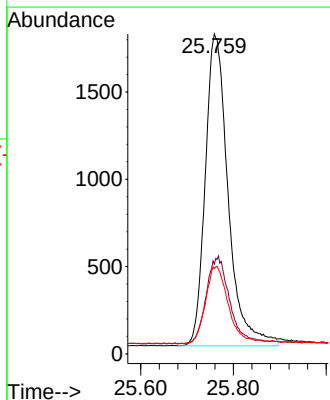
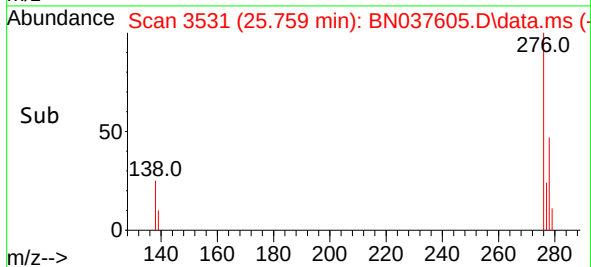


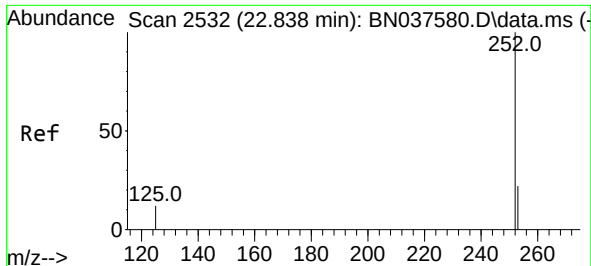
#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.372 ng
 RT: 25.759 min Scan# 3531
 Delta R.T. -0.008 min
 Lab File: BN037605.D
 Acq: 19 Aug 2025 13:40



Tgt Ion: 276 Resp: 6122

Ion	Ratio	Lower	Upper
276	100		
138	28.7	23.3	34.9
277	24.6	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 0.411 ng

RT: 22.832 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037605.D

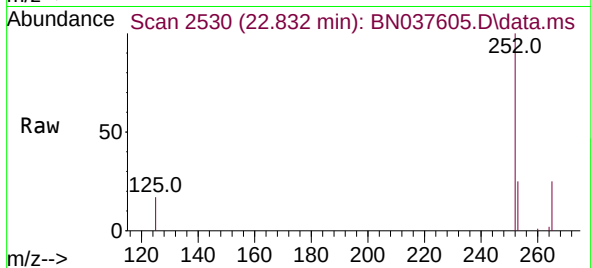
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



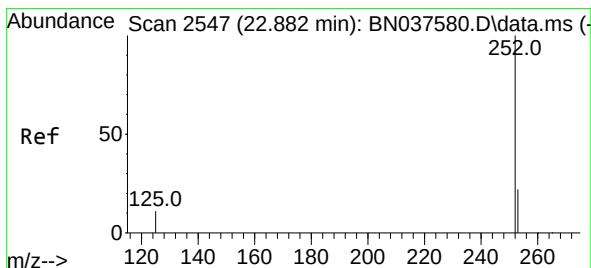
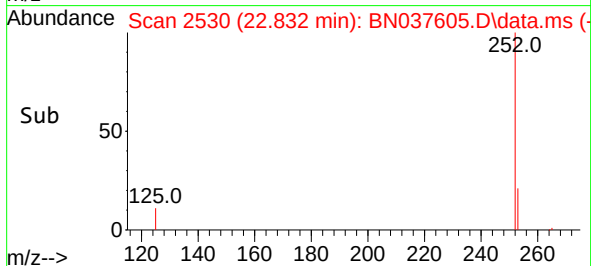
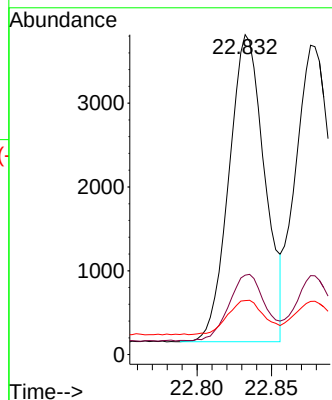
Tgt Ion:252 Resp: 6094

Ion Ratio Lower Upper

252 100

253 24.8 20.0 30.0

125 16.9 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.374 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

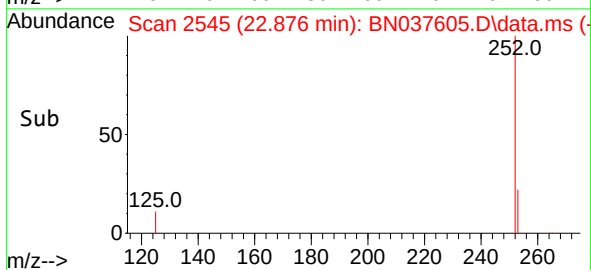
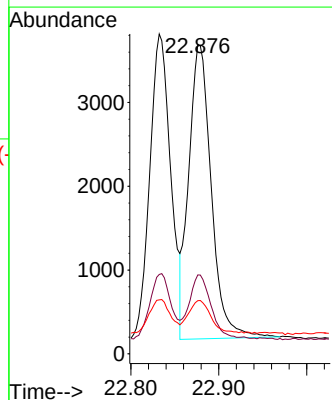
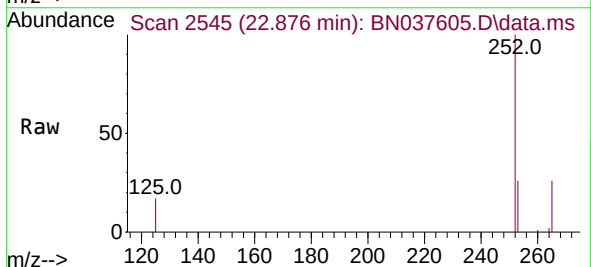
Tgt Ion:252 Resp: 6247

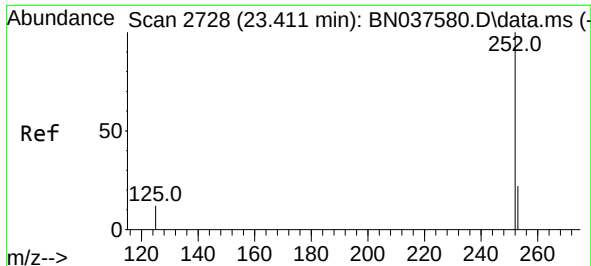
Ion Ratio Lower Upper

252 100

253 25.5 19.9 29.9

125 17.2 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.411 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037605.D

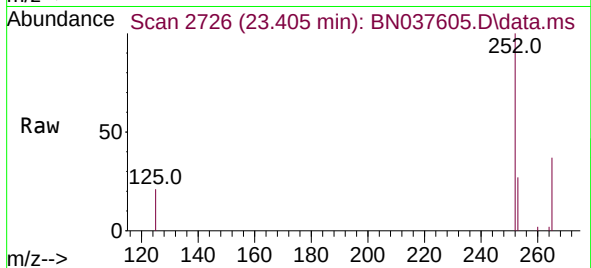
Acq: 19 Aug 2025 13:40

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MS



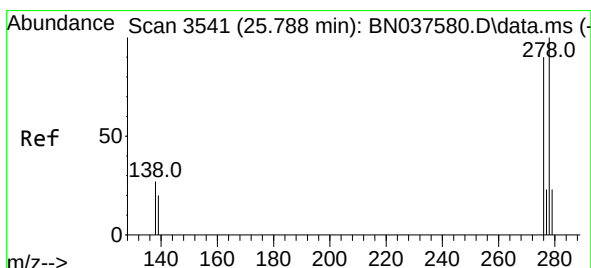
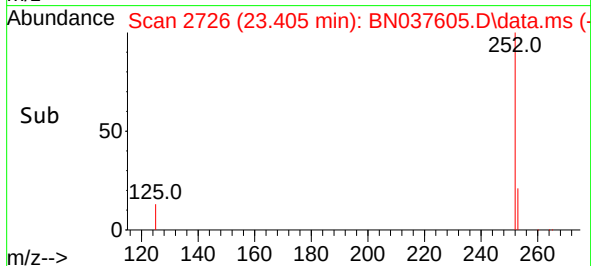
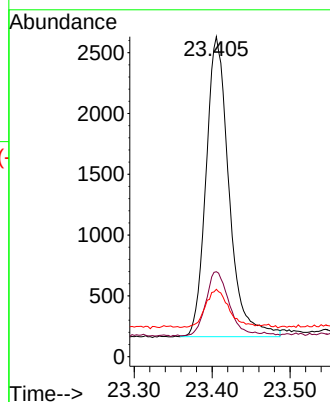
Tgt Ion:252 Resp: 5054

Ion Ratio Lower Upper

252 100

253 26.5 21.6 32.4

125 21.0 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.368 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.009 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

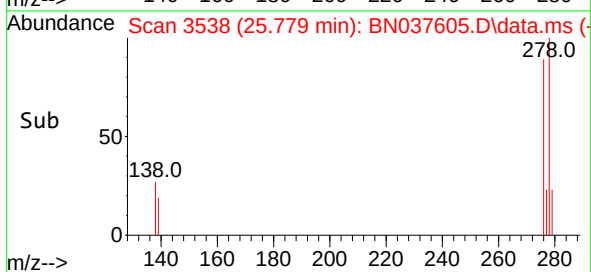
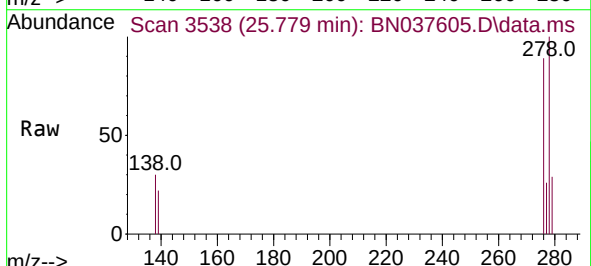
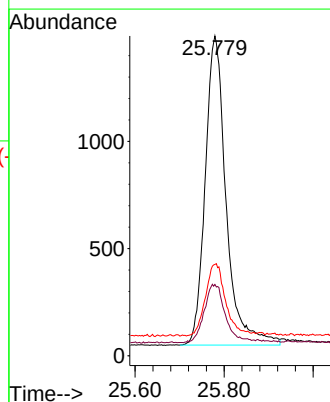
Tgt Ion:278 Resp: 4709

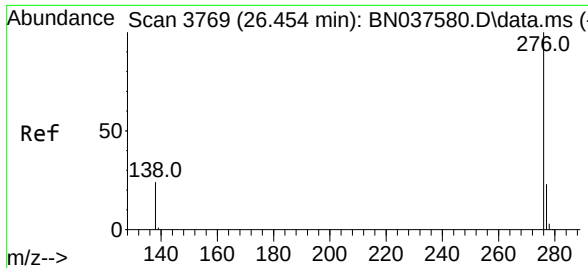
Ion Ratio Lower Upper

278 100

139 22.3 18.3 27.5

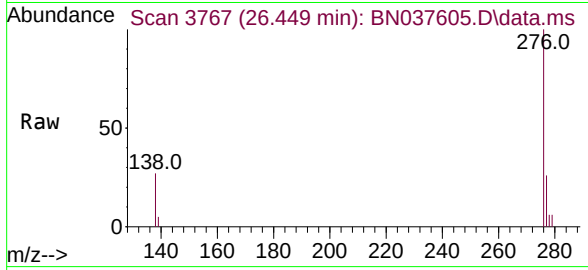
279 28.6 22.5 33.7



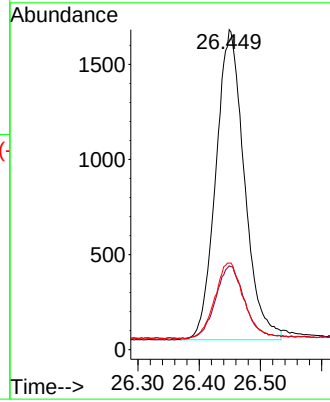
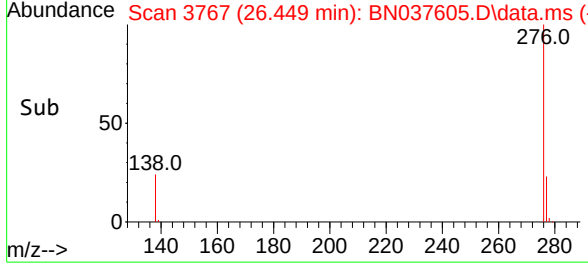


#41
 Benzo(g,h,i)perylene
 Concen: 0.391 ng
 RT: 26.449 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: BN037605.D
 Acq: 19 Aug 2025 13:40

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MS



Tgt Ion:	276	Resp:	5269
Ion	Ratio	Lower	Upper
276	100		
277	26.2	21.0	31.4
138	27.0	21.7	32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
 Data File : BN037606.D
 Acq On : 19 Aug 2025 14:17
 Operator : RC/JU
 Sample : Q2842-05MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MSD

Quant Time: Aug 20 01:26:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

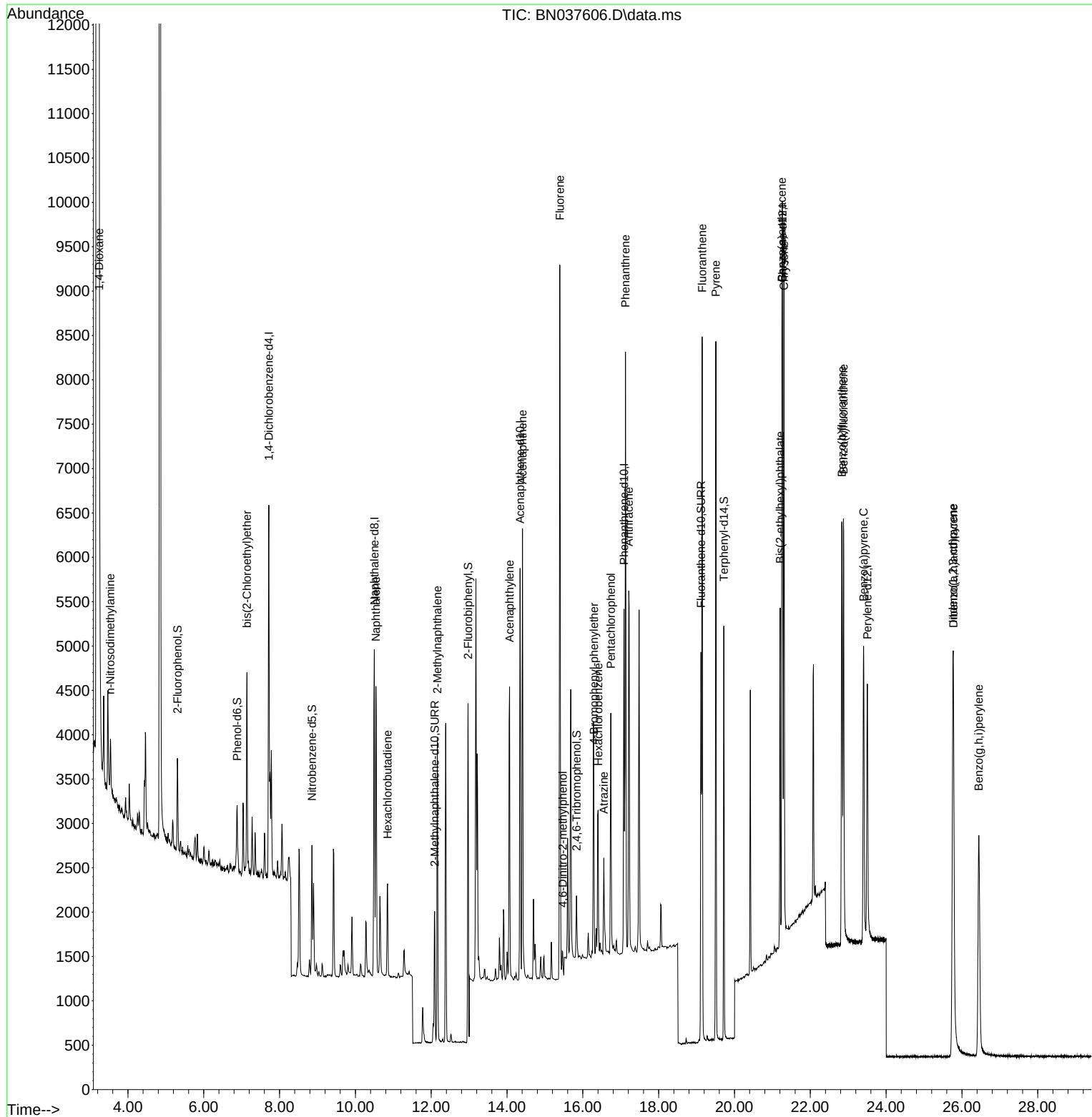
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2022	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4839	0.400	ng	0.00
13) Acenaphthene-d10	14.344	164	2406	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5009	0.400	ng	0.00
29) Chrysene-d12	21.267	240	4561	0.400	ng	# 0.00
35) Perylene-d12	23.504	264	3935	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.304	112	713	0.156	ng	0.00
5) Phenol-d6	6.879	99	499	0.090	ng	0.00
8) Nitrobenzene-d5	8.853	82	1080	0.317	ng	0.00
11) 2-Methylnaphthalene-d10	12.090	152	2348	0.357	ng	0.00
14) 2,4,6-Tribromophenol	15.832	330	401	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	4509	0.324	ng	0.00
27) Fluoranthene-d10	19.117	212	4894	0.371	ng	0.00
31) Terphenyl-d14	19.721	244	4395	0.468	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	5537	2.862	ng	# 92
3) n-Nitrosodimethylamine	3.535	42	412	0.167	ng	# 94
6) bis(2-Chloroethyl)ether	7.139	93	1634	0.329	ng	97
9) Naphthalene	10.540	128	4289	0.333	ng	98
10) Hexachlorobutadiene	10.850	225	911	0.289	ng	# 99
12) 2-Methylnaphthalene	12.161	142	2410	0.298	ng	100
16) Acenaphthylene	14.066	152	3852	0.357	ng	100
17) Acenaphthene	14.408	154	2466	0.336	ng	98
18) Fluorene	15.392	166	3360	0.350	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	237	0.441	ng	90
21) 4-Bromophenyl-phenylether	16.292	248	1112	0.353	ng	# 90
22) Hexachlorobenzene	16.403	284	1477	0.331	ng	98
23) Atrazine	16.552	200	799	0.449	ng	96
24) Pentachlorophenol	16.738	266	1294	0.826	ng	97
25) Phenanthrene	17.123	178	6750	0.443	ng	100
26) Anthracene	17.210	178	5136	0.381	ng	99
28) Fluoranthene	19.145	202	7312	0.418	ng	100
30) Pyrene	19.508	202	7072	0.415	ng	99
32) Benzo(a)anthracene	21.250	228	6132	0.402	ng	98
33) Chrysene	21.303	228	6692	0.394	ng	99
34) Bis(2-ethylhexyl)phtha...	21.205	149	3509	0.558	ng	99
36) Indeno(1,2,3-cd)pyrene	25.761	276	6228	0.376	ng	98
37) Benzo(b)fluoranthene	22.832	252	6261	0.420	ng	100
38) Benzo(k)fluoranthene	22.876	252	6279	0.373	ng	98
39) Benzo(a)pyrene	23.405	252	5127	0.415	ng	99
40) Dibenzo(a,h)anthracene	25.776	278	4745	0.369	ng	99
41) Benzo(g,h,i)perylene	26.445	276	5431	0.401	ng	99

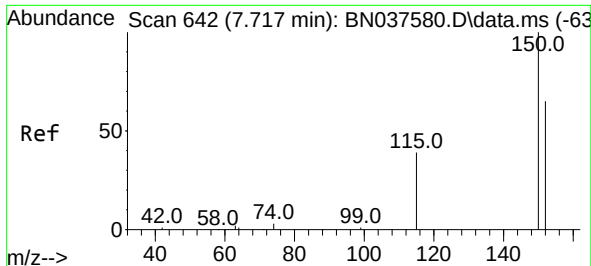
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081925\
Data File : BN037606.D
Acq On : 19 Aug 2025 14:17
Operator : RC/JU
Sample : Q2842-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

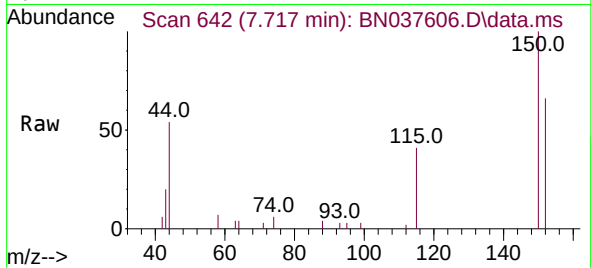
Quant Time: Aug 20 01:26:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



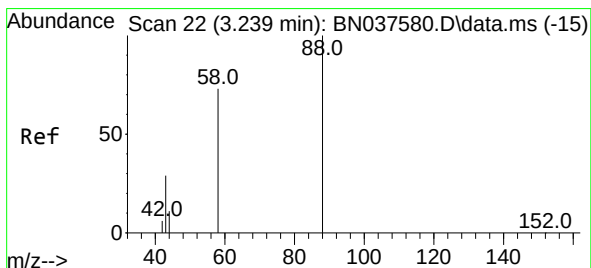
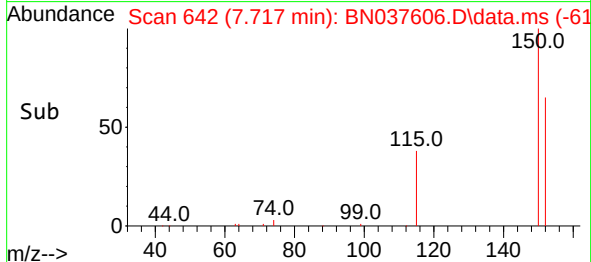
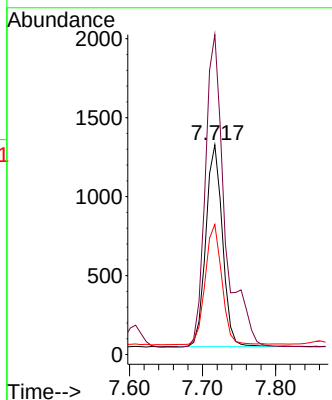


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.717 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MSD

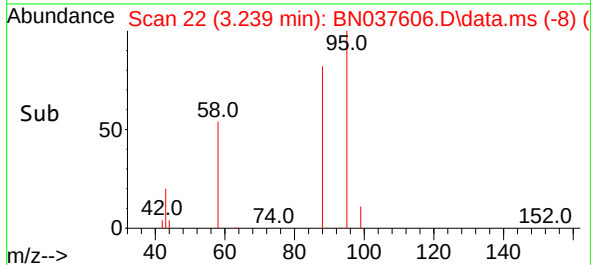
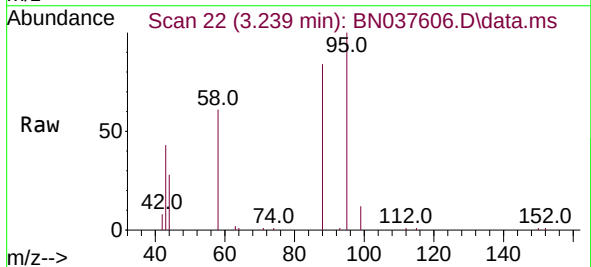
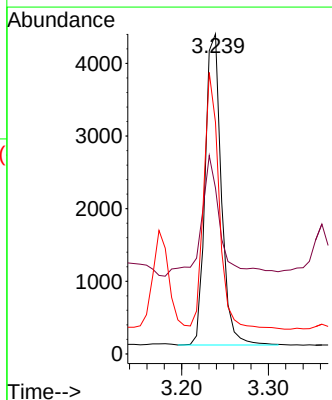


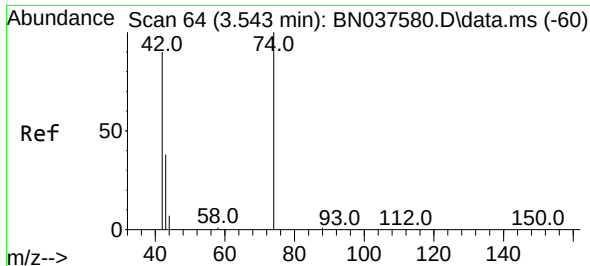
Tgt Ion:152 Resp: 2022
 Ion Ratio Lower Upper
 152 100
 150 152.4 122.2 183.4
 115 62.0 49.8 74.6



#2
 1,4-Dioxane
 Concen: 2.862 ng
 RT: 3.239 min Scan# 22
 Delta R.T. -0.000 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

Tgt Ion: 88 Resp: 5537
 Ion Ratio Lower Upper
 88 100
 43 47.0 25.8 38.6#
 58 77.2 61.2 91.8

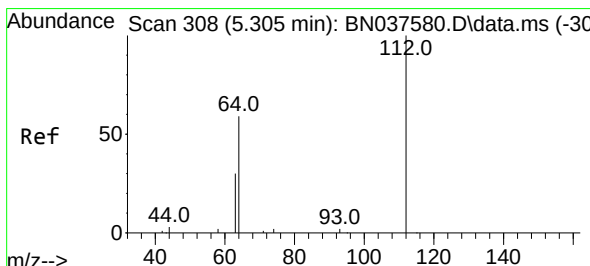
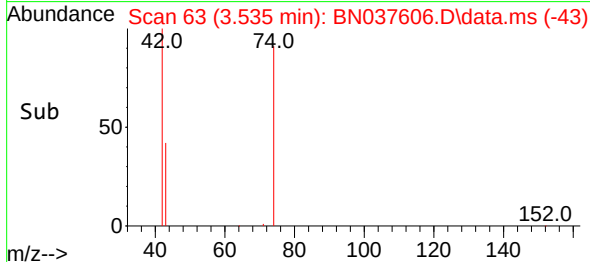
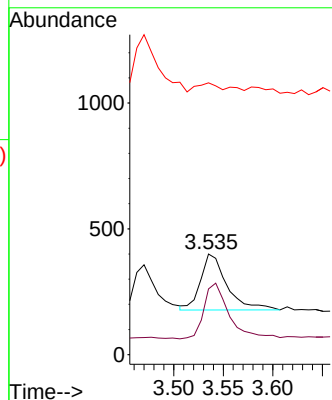
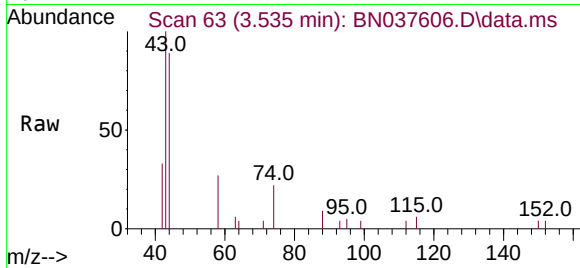




#3
 n-Nitrosodimethylamine
 Concen: 0.167 ng
 RT: 3.535 min Scan# 64
 Delta R.T. -0.008 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

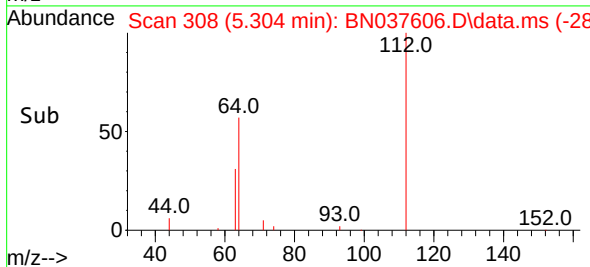
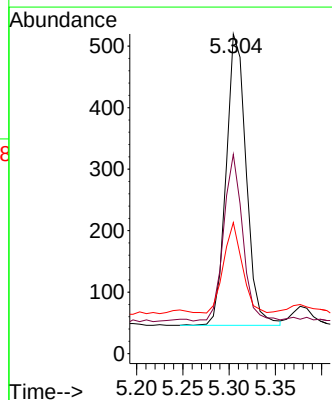
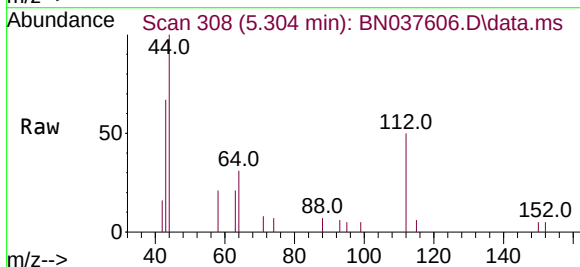
Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MSD

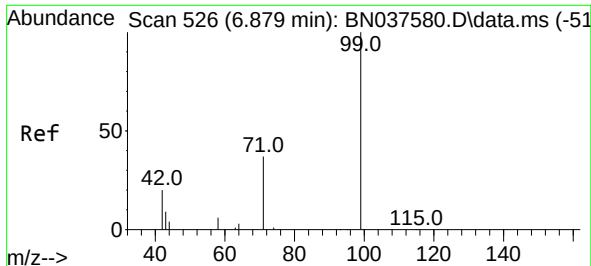
Tgt Ion: 42 Resp: 412
 Ion Ratio Lower Upper
 42 100
 74 97.1 82.0 123.0
 44 16.7 7.9 11.9#



#4
 2-Fluorophenol
 Concen: 0.156 ng
 RT: 5.304 min Scan# 308
 Delta R.T. -0.000 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

Tgt Ion: 112 Resp: 713
 Ion Ratio Lower Upper
 112 100
 64 54.3 44.9 67.3
 63 29.5 23.4 35.2

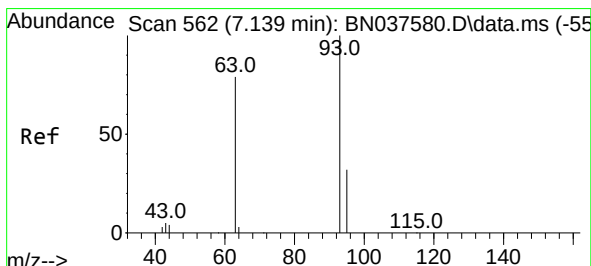
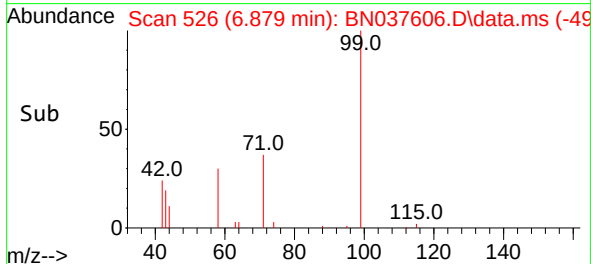
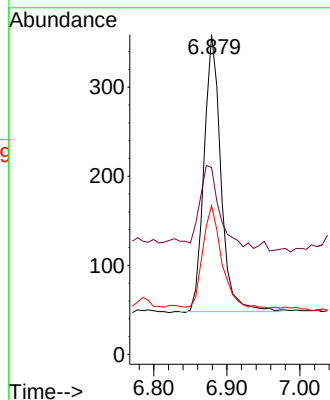
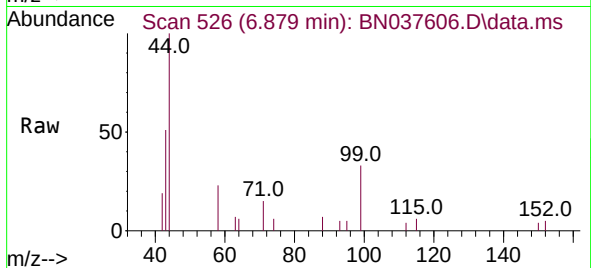




#5
Phenol-d6
Concen: 0.090 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

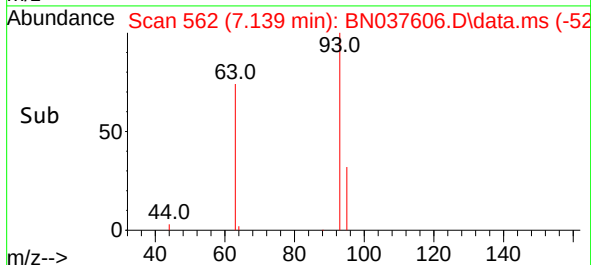
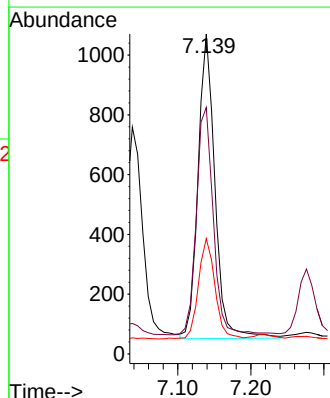
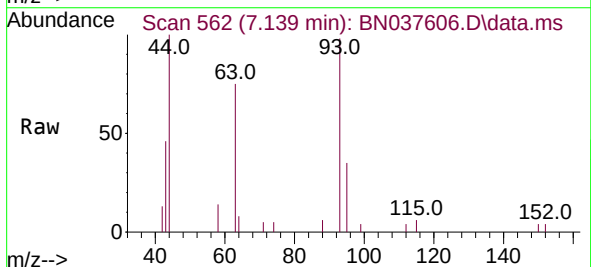
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

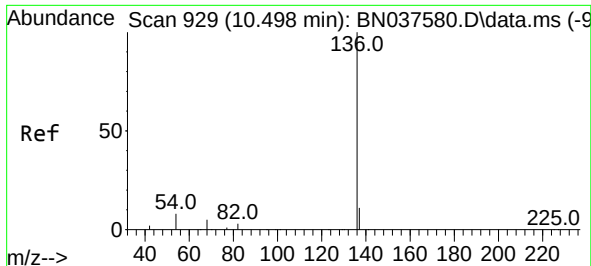
Tgt Ion: 99 Resp: 499
Ion Ratio Lower Upper
99 100
42 35.1 18.5 27.7#
71 41.1 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.329 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion: 93 Resp: 1634
Ion Ratio Lower Upper
93 100
63 75.2 58.0 87.0
95 32.4 24.9 37.3

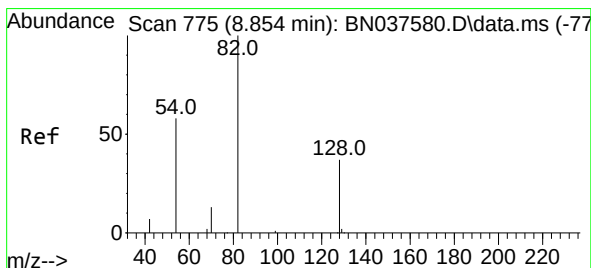
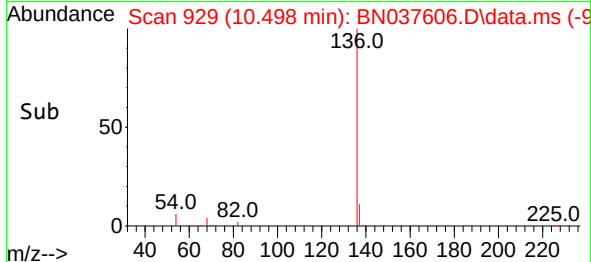
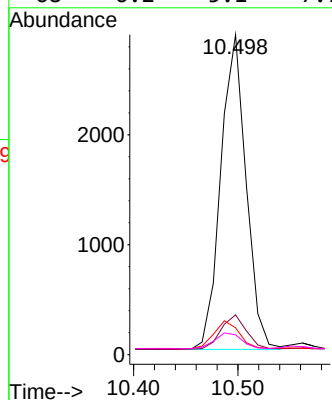
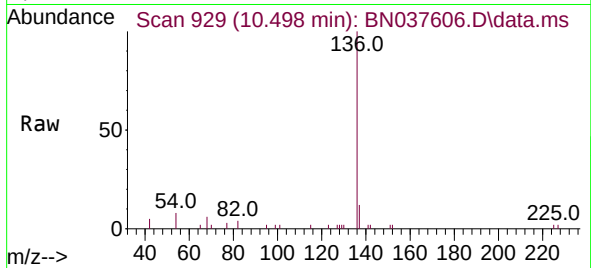




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

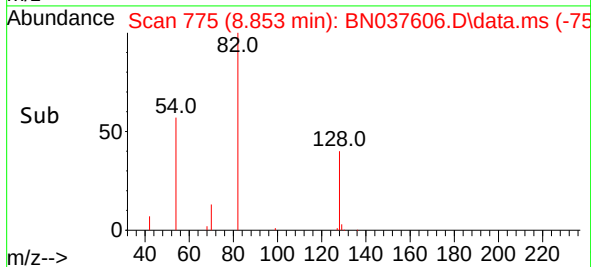
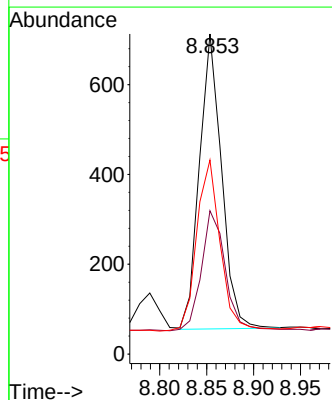
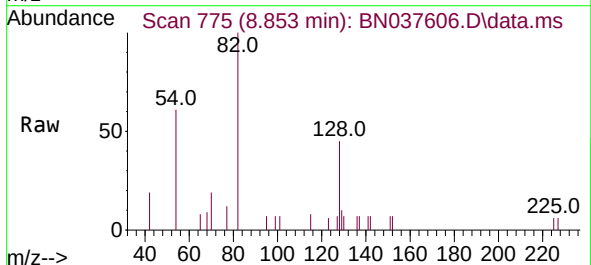
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

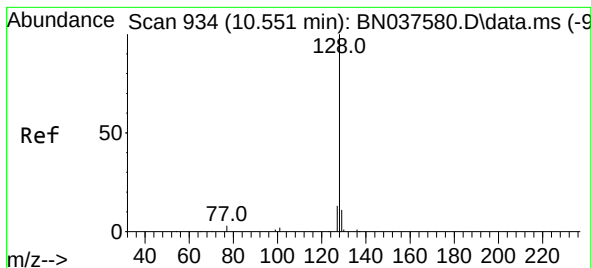
Tgt Ion:	136	Resp:	4839
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.5	14.3
54	8.4	7.3	10.9
68	6.2	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 8.853 min Scan# 775
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:	82	Resp:	1080
Ion	Ratio	Lower	Upper
82	100		
128	44.7	32.6	48.8
54	60.6	48.9	73.3





#9

Naphthalene

Concen: 0.333 ng

RT: 10.540 min Scan# 934

Delta R.T. -0.011 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

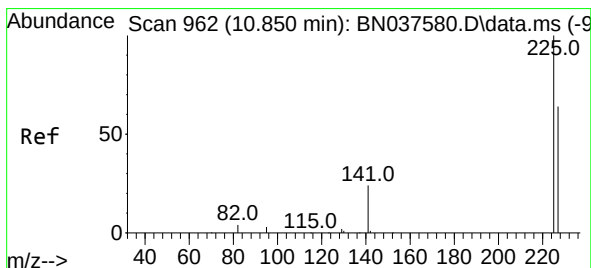
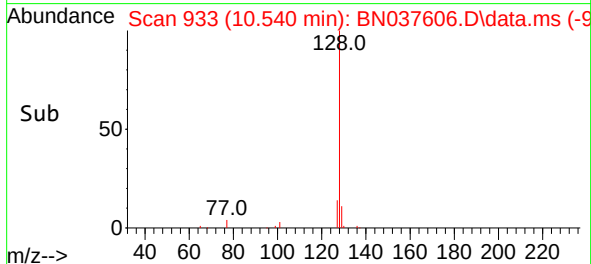
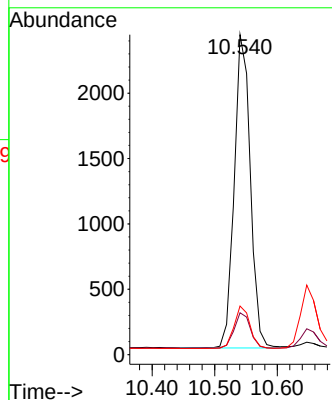
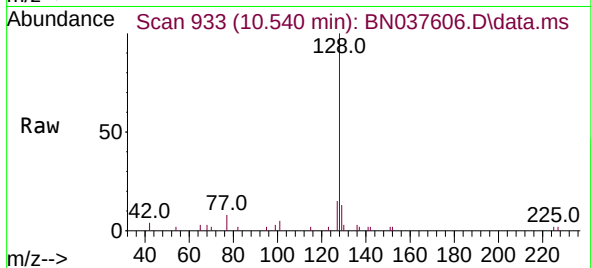
Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD

Tgt Ion:128	Resp:	4289
Ion Ratio	Lower	Upper
128	100	
129	13.1	9.8 14.6
127	15.2	11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.289 ng

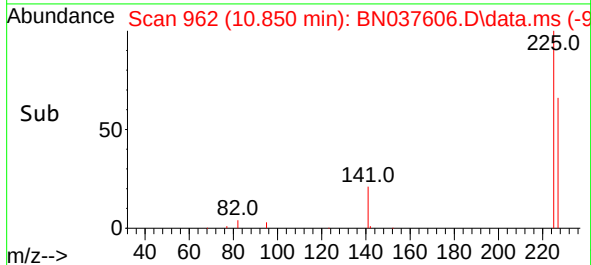
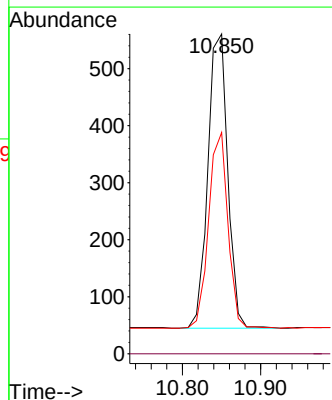
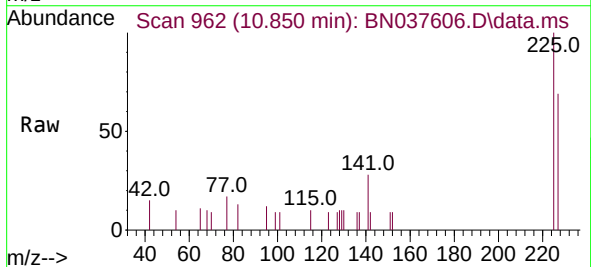
RT: 10.850 min Scan# 962

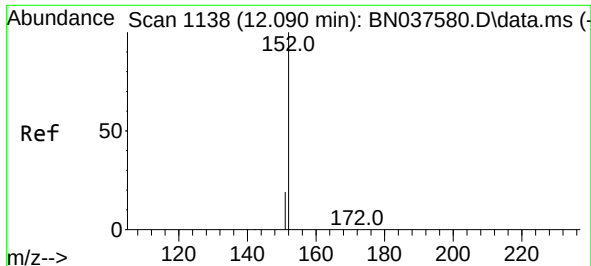
Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Tgt Ion:225	Resp:	911
Ion Ratio	Lower	Upper
225	100	
223	0.0	0.0 0.0
227	64.4	50.8 76.2

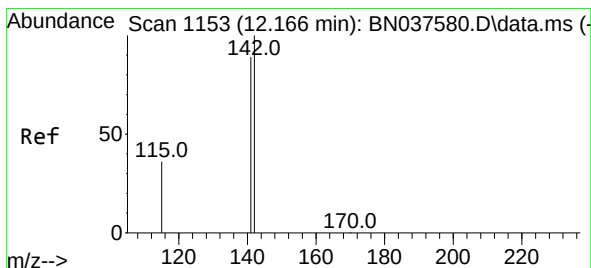
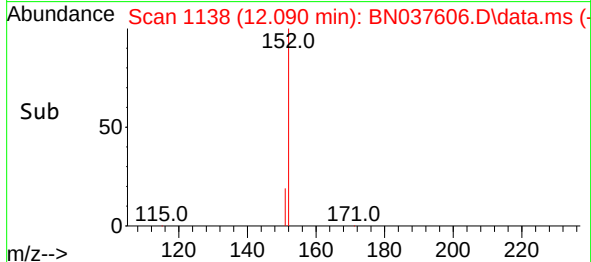
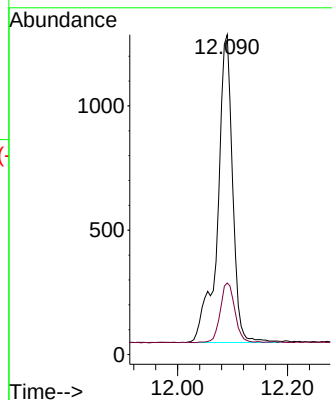
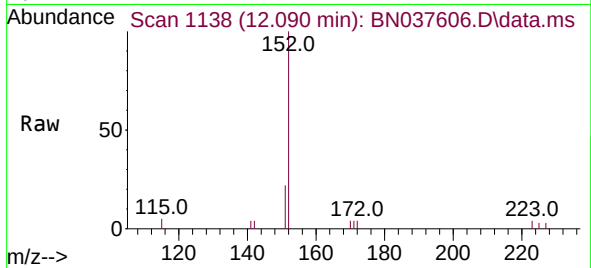




#11
2-Methylnaphthalene-d10
Concen: 0.357 ng
RT: 12.090 min Scan# 1138
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

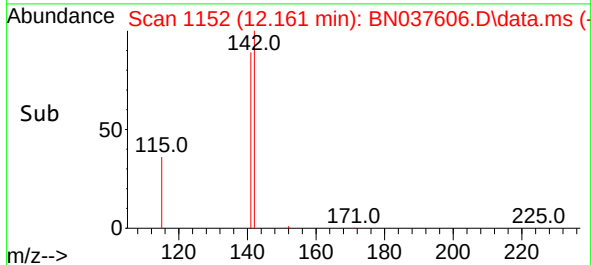
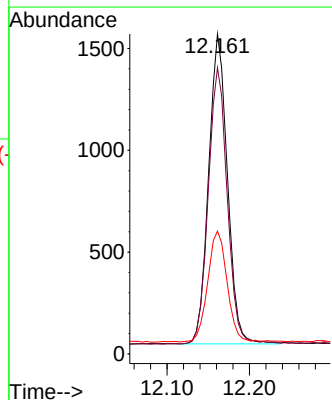
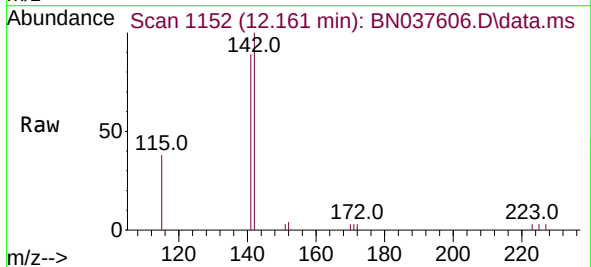
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

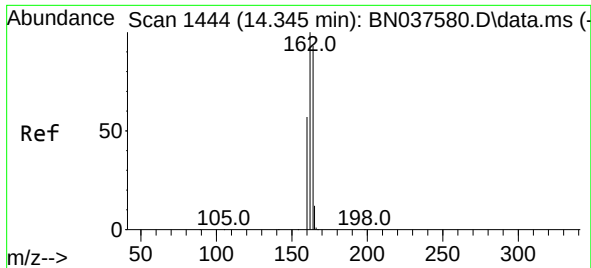
Tgt Ion:152 Resp: 2348
Ion Ratio Lower Upper
152 100
151 18.8 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.298 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:142 Resp: 2410
Ion Ratio Lower Upper
142 100
141 89.4 71.4 107.0
115 38.4 30.2 45.4

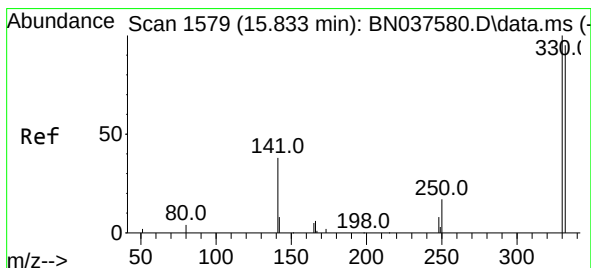
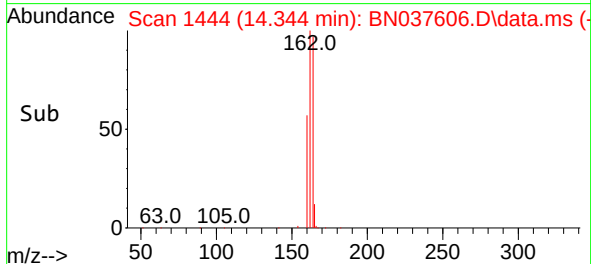
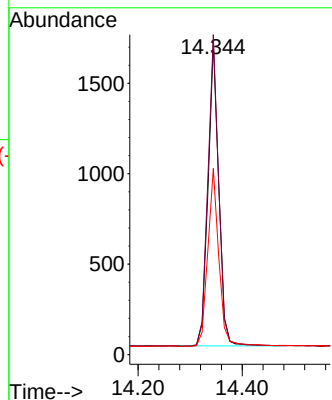
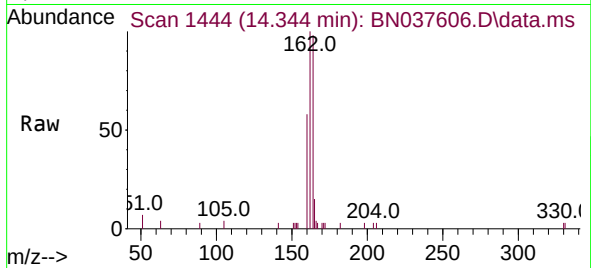




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.344 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

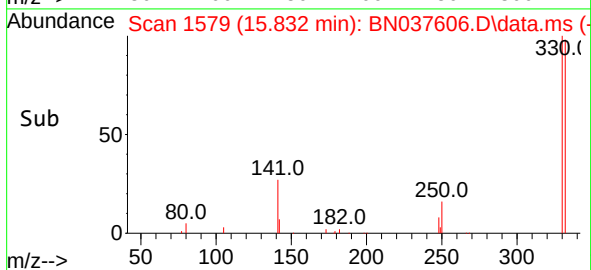
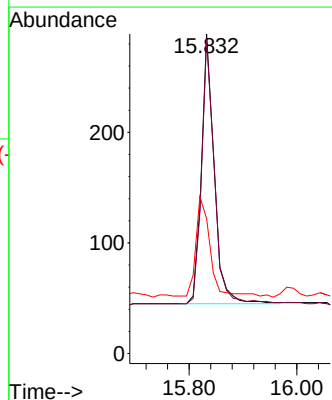
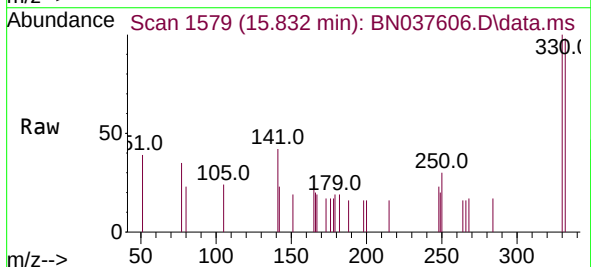
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

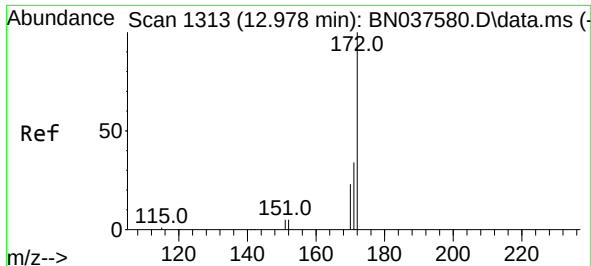
Tgt Ion:	164	Resp:	2406
Ion	Ratio	Lower	Upper
164	100		
162	102.4	85.5	128.3
160	59.6	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.832 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:	330	Resp:	401
Ion	Ratio	Lower	Upper
330	100		
332	98.3	77.4	116.0
141	42.6	30.9	46.3

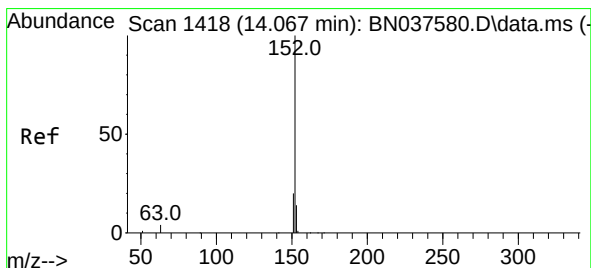
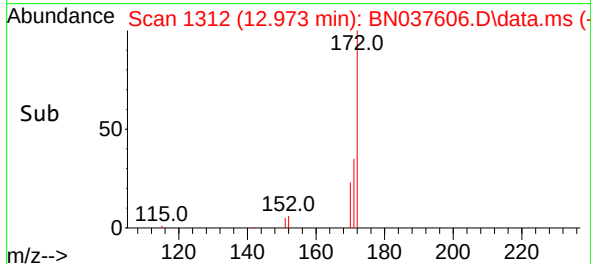
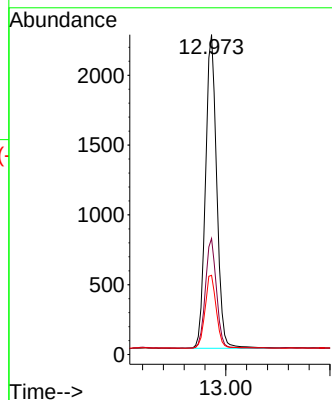
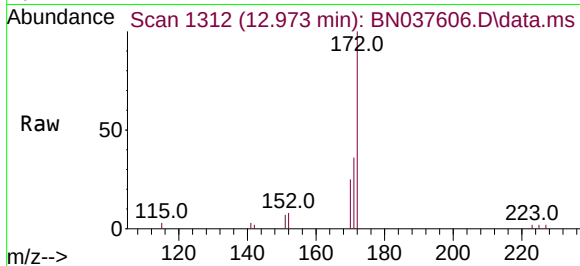




#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 12.973 min Scan# 1313
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

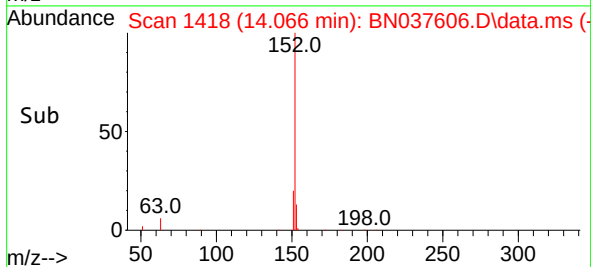
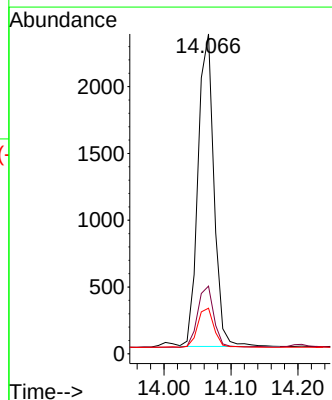
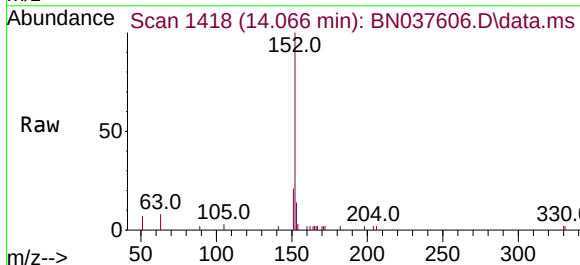
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

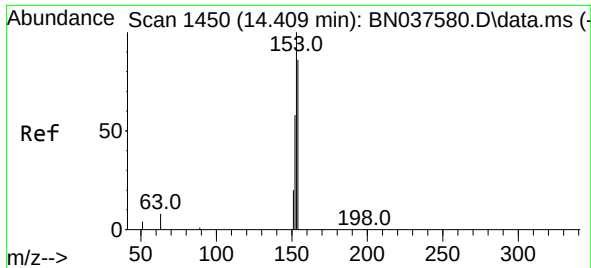
Tgt Ion:	172	Resp:	4509
Ion Ratio	Lower	Upper	
172	100		
171	36.3	28.2	42.4
170	24.7	19.2	28.8



#16
Acenaphthylene
Concen: 0.357 ng
RT: 14.066 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:	152	Resp:	3852
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.1	24.1
153	13.3	10.7	16.1

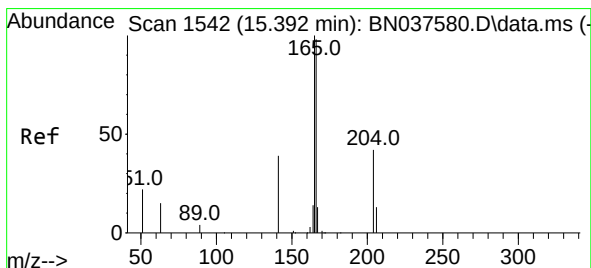
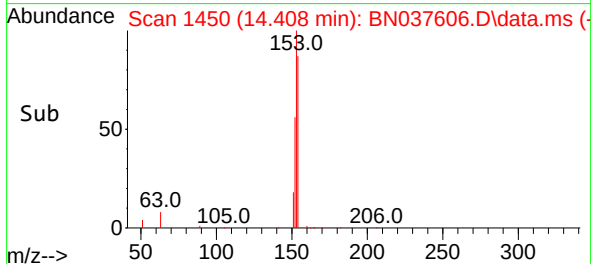
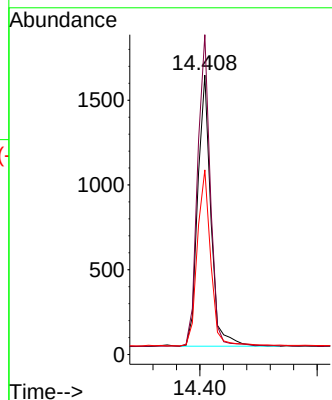
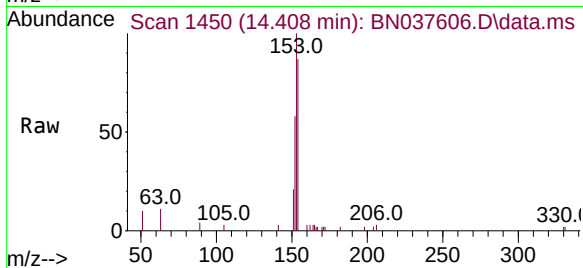




#17
Acenaphthene
Concen: 0.336 ng
RT: 14.408 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

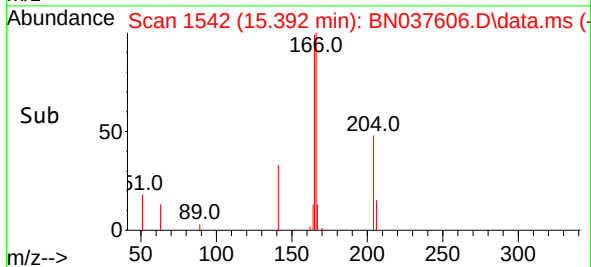
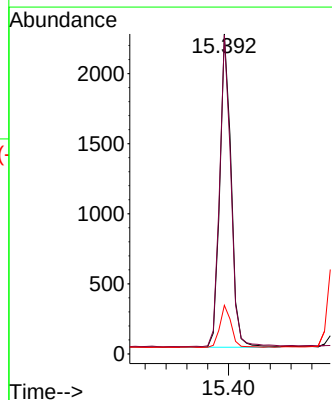
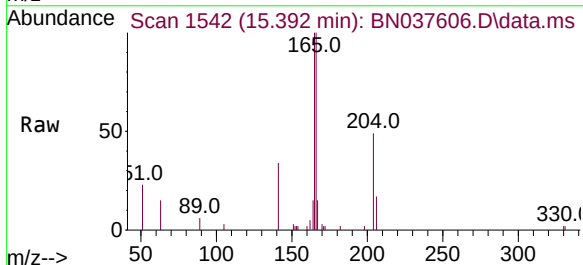
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

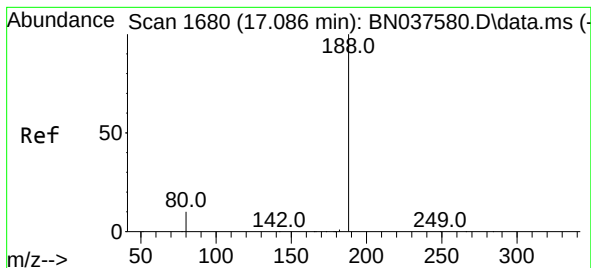
Tgt Ion:	154	Resp:	2466
Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.6	135.8
152	66.6	54.9	82.3



#18
Fluorene
Concen: 0.350 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:	166	Resp:	3360
Ion	Ratio	Lower	Upper
166	100		
165	99.8	78.9	118.3
167	13.5	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1680

Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD

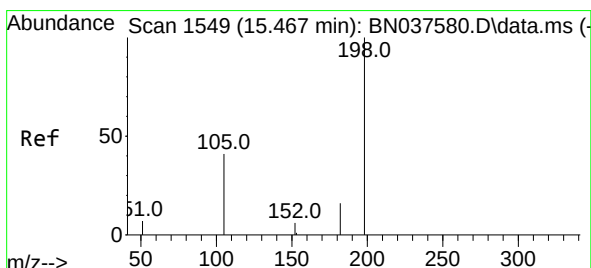
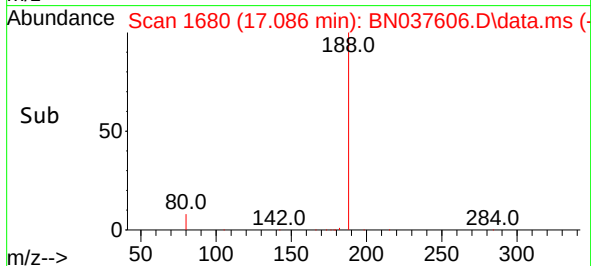
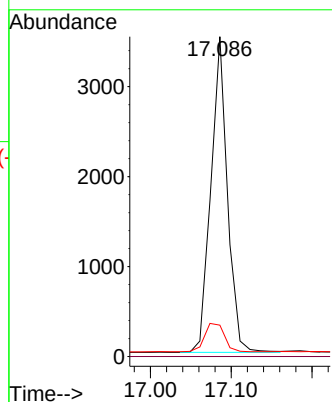
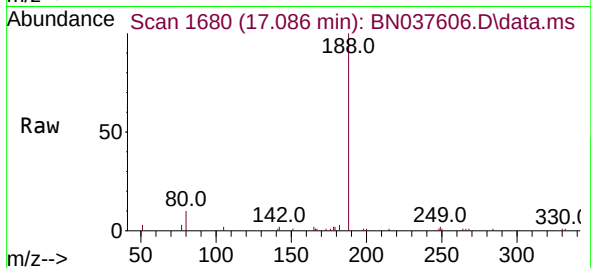
Tgt Ion:188 Resp: 5009

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.441 ng

RT: 15.467 min Scan# 1549

Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

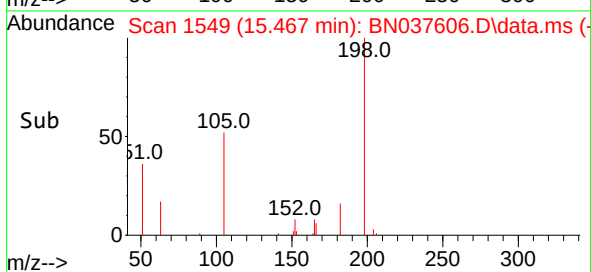
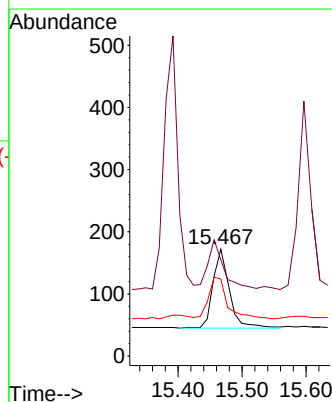
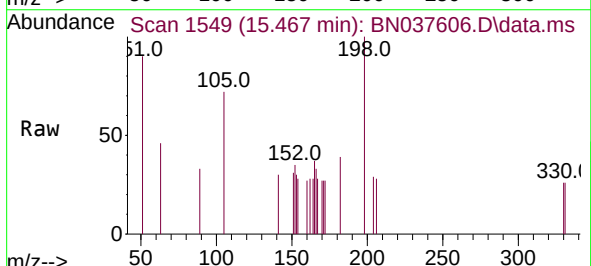
Tgt Ion:198 Resp: 237

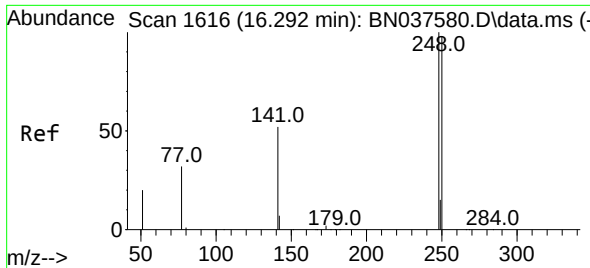
Ion Ratio Lower Upper

198 100

51 90.1 81.0 121.6

105 72.1 52.5 78.7

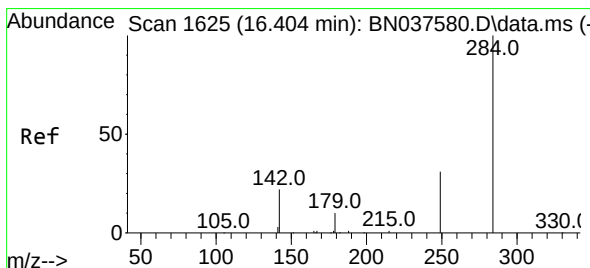
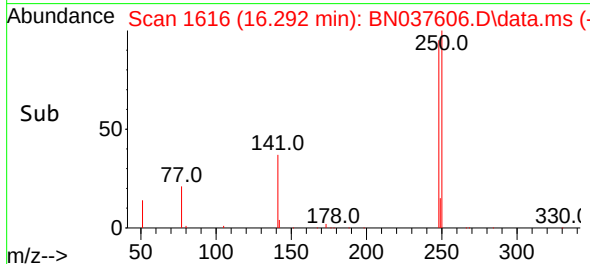
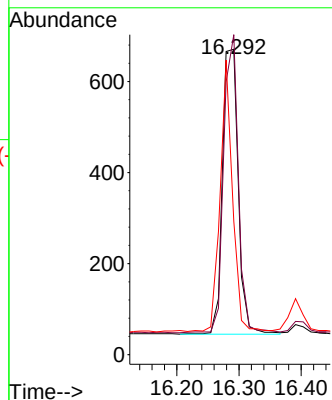
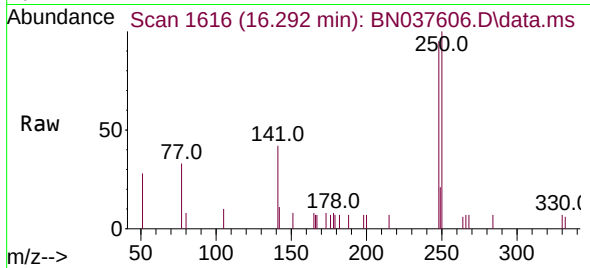




#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 16.292 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

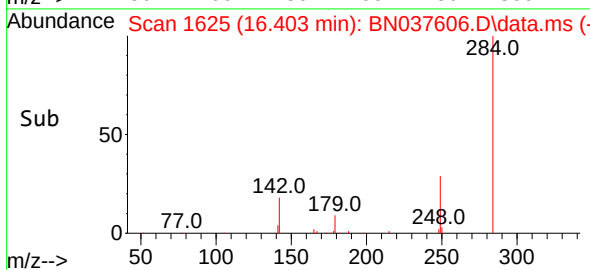
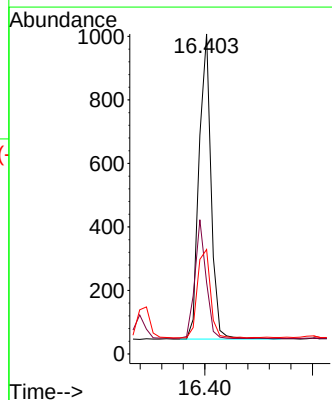
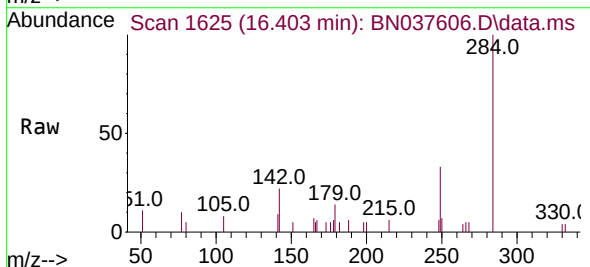
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

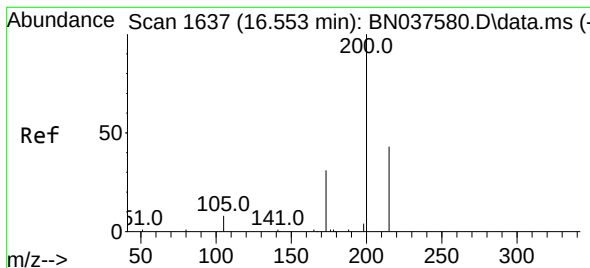
Tgt Ion:248 Resp: 1112
Ion Ratio Lower Upper
248 100
250 104.8 78.6 118.0
141 43.7 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.331 ng
RT: 16.403 min Scan# 1625
Delta R.T. -0.001 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:284 Resp: 1477
Ion Ratio Lower Upper
284 100
142 36.2 29.8 44.6
249 31.6 26.0 39.0





#23

Atrazine

Concen: 0.449 ng

RT: 16.552 min Scan# 1637

Delta R.T. -0.001 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

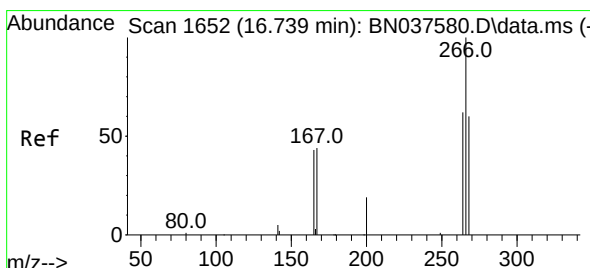
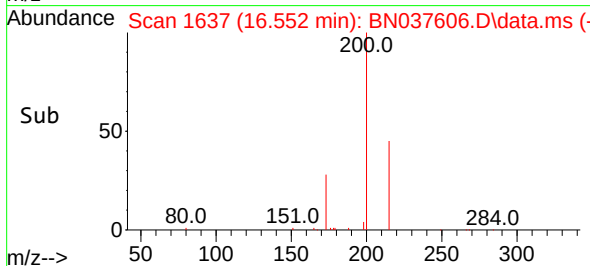
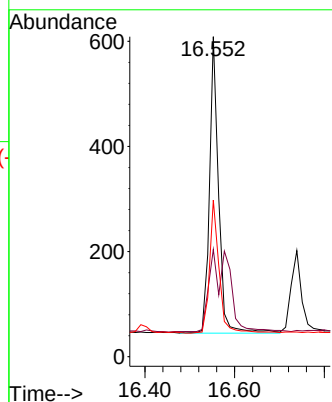
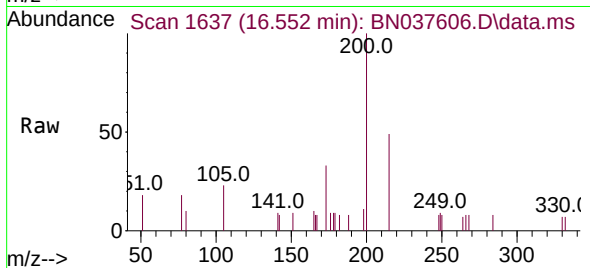
Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD

Tgt Ion:	200	Resp:	799
Ion Ratio	Lower	Upper	
200	100		
173	33.5	31.0	46.4
215	48.9	39.4	59.0



#24

Pentachlorophenol

Concen: 0.826 ng

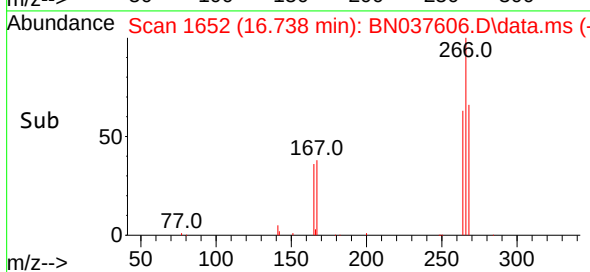
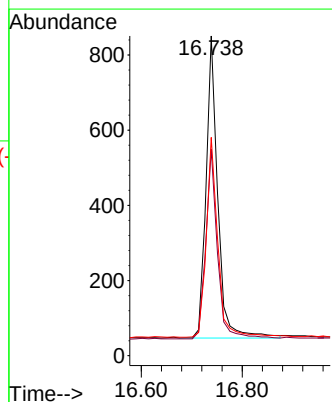
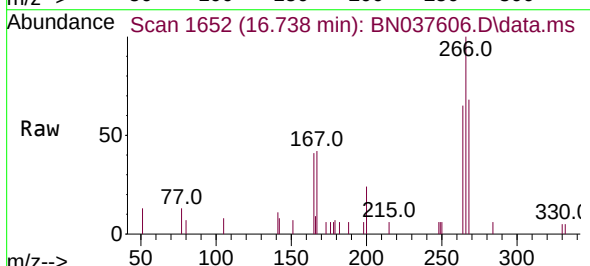
RT: 16.738 min Scan# 1652

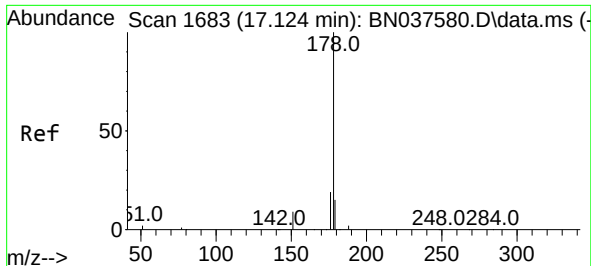
Delta R.T. -0.001 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Tgt Ion:	266	Resp:	1294
Ion Ratio	Lower	Upper	
266	100		
264	62.4	49.6	74.4
268	65.3	49.2	73.8

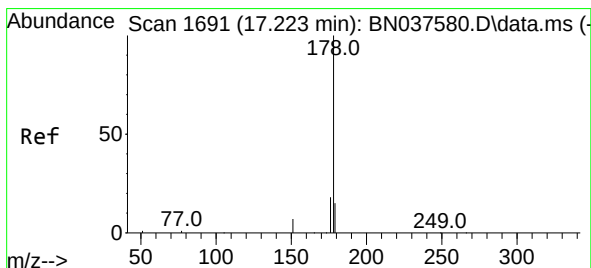
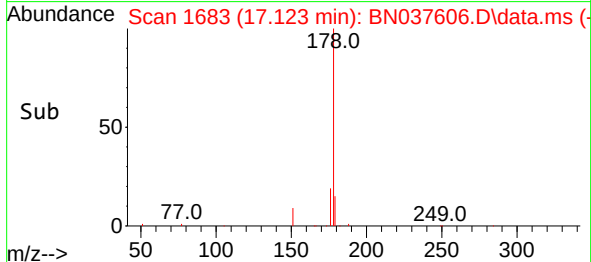
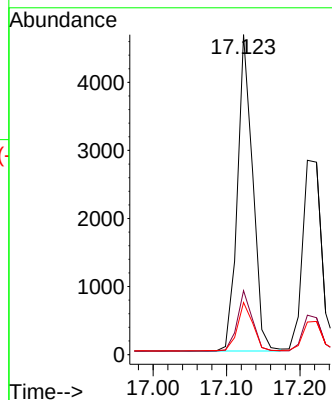
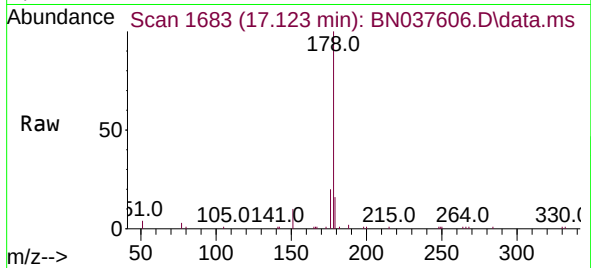




#25
Phenanthrene
Concen: 0.443 ng
RT: 17.123 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

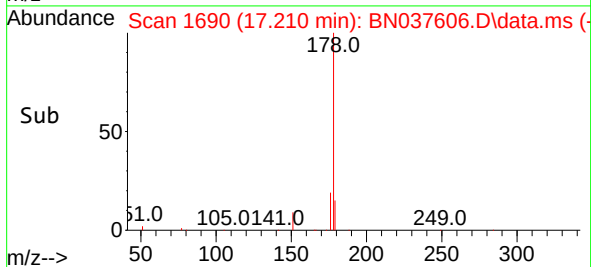
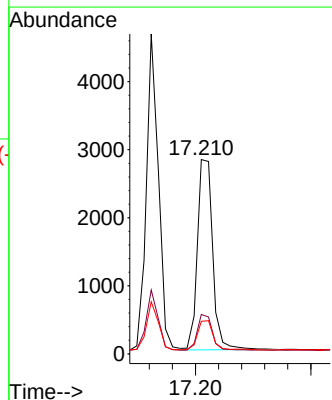
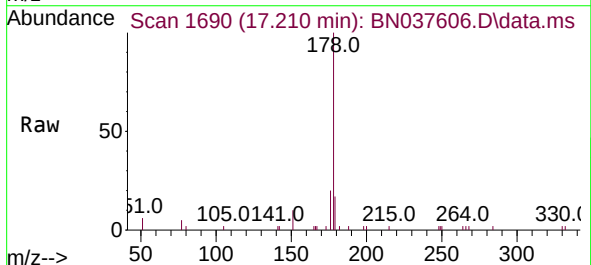
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

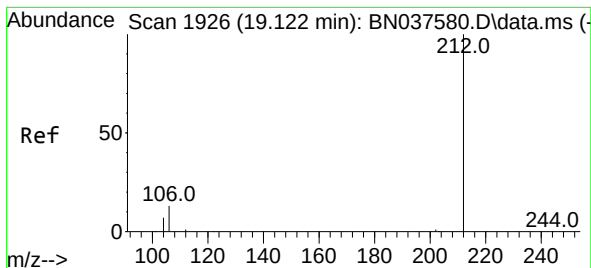
Tgt Ion:178 Resp: 6750
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.381 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.013 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:178 Resp: 5136
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.8 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.371 ng

RT: 19.117 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

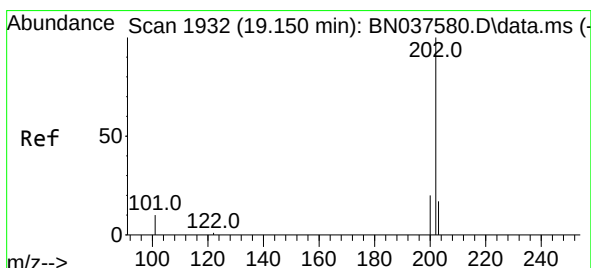
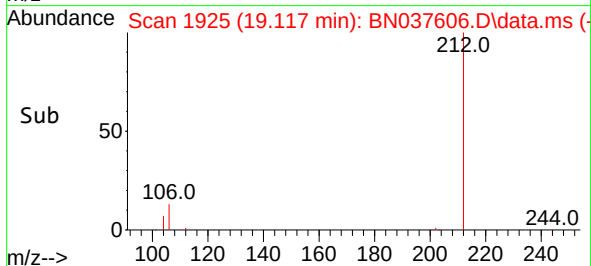
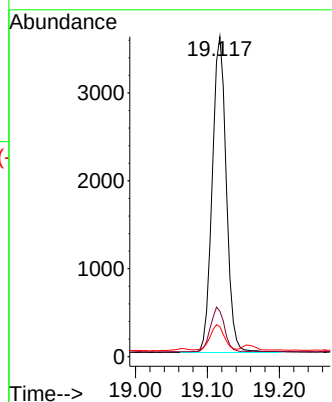
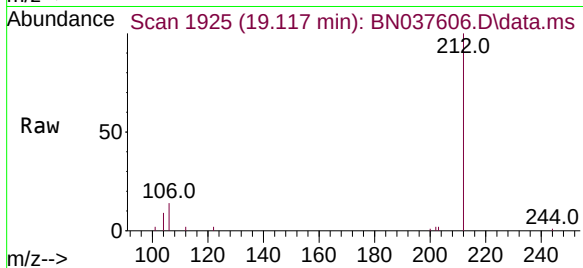
Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD

Tgt Ion:212	Resp:	4894
Ion Ratio	Lower	Upper
212	100	
106	14.0	11.5 17.3
104	8.3	6.6 9.8



#28

Fluoranthene

Concen: 0.418 ng

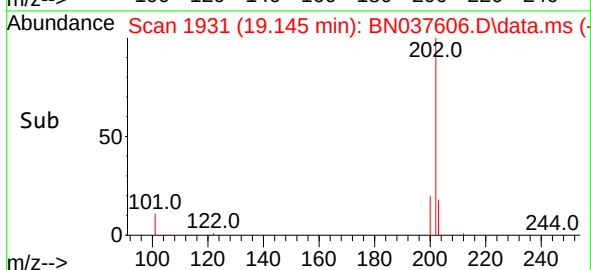
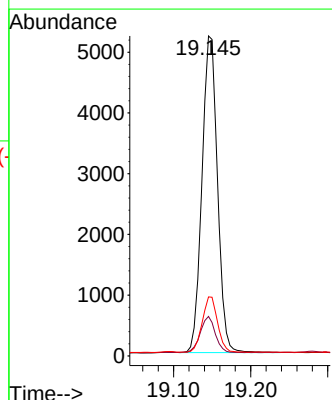
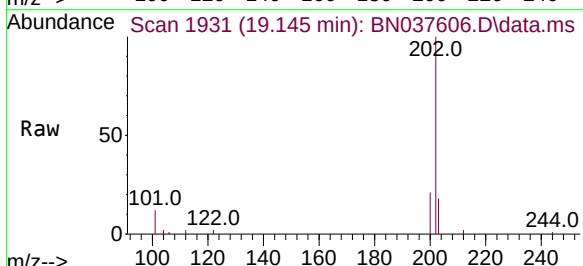
RT: 19.145 min Scan# 1931

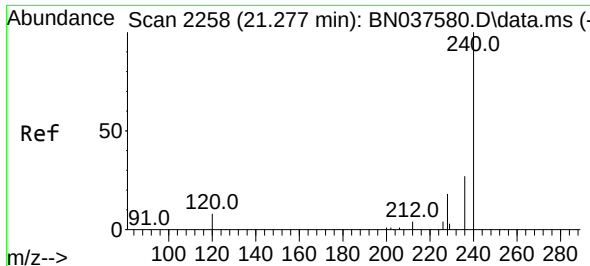
Delta R.T. -0.005 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Tgt Ion:202	Resp:	7312
Ion Ratio	Lower	Upper
202	100	
101	11.1	9.0 13.6
203	17.2	13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.267 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037606.D

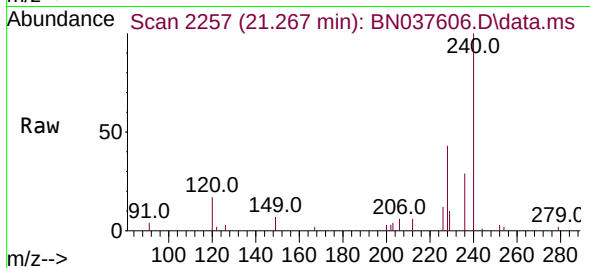
Acq: 19 Aug 2025 14:17

Instrument :

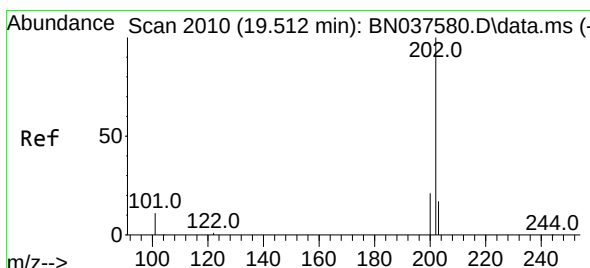
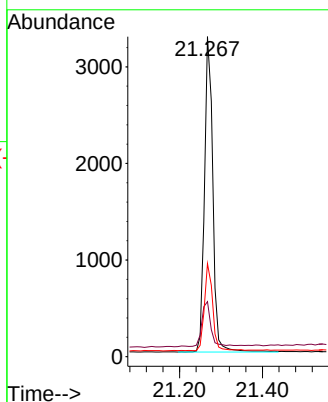
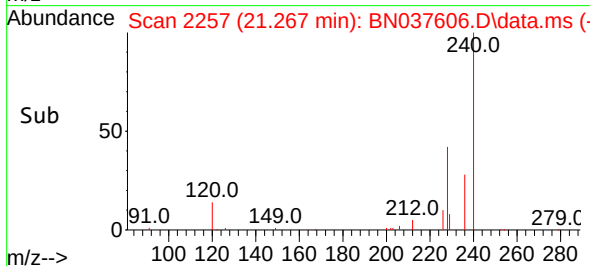
BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD



Tgt Ion:240	Resp:	4561
Ion Ratio	Lower	Upper
240	100	
120	17.2	8.9 13.3#
236	29.1	22.6 33.8



#30

Pyrene

Concen: 0.415 ng

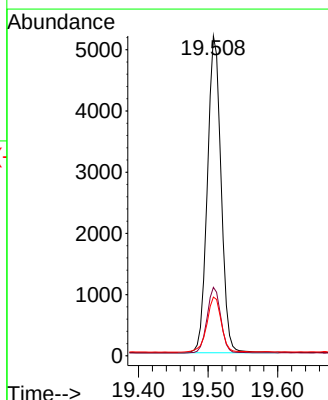
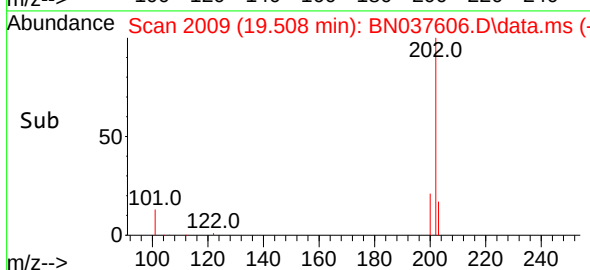
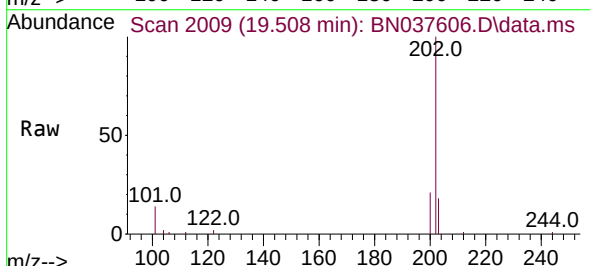
RT: 19.508 min Scan# 2009

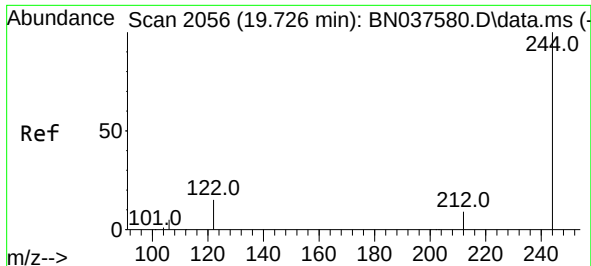
Delta R.T. -0.005 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Tgt Ion:202	Resp:	7072
Ion Ratio	Lower	Upper
202	100	
200	20.7	16.6 25.0
203	18.3	14.3 21.5

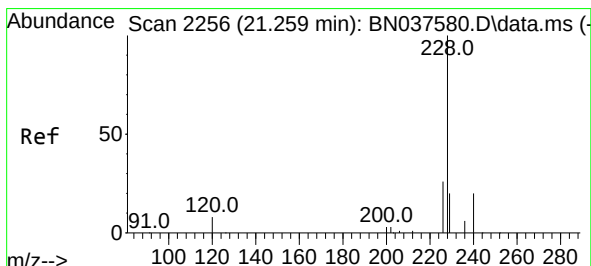
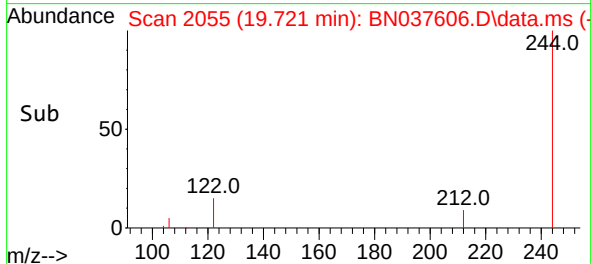
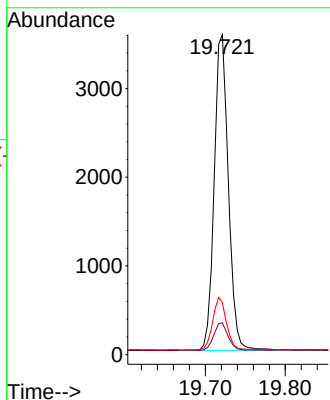
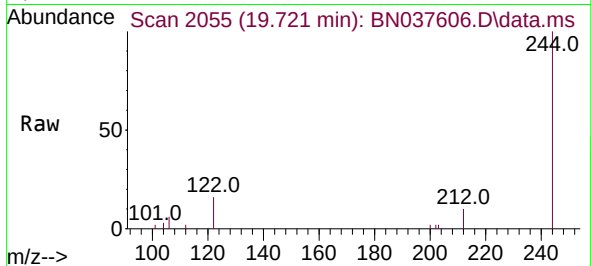




#31
Terphenyl-d14
Concen: 0.468 ng
RT: 19.721 min Scan# 2056
Delta R.T. -0.005 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

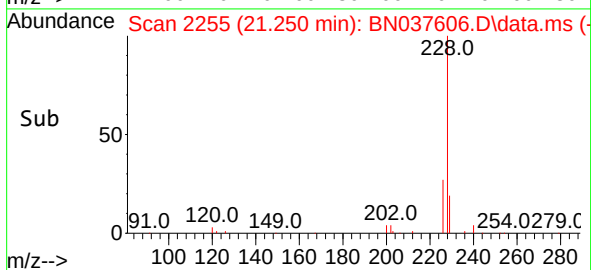
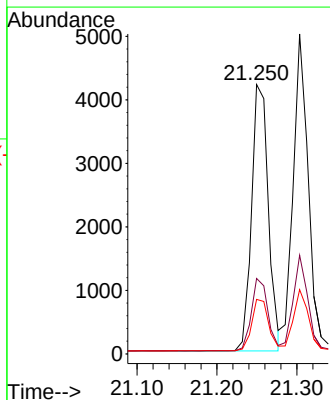
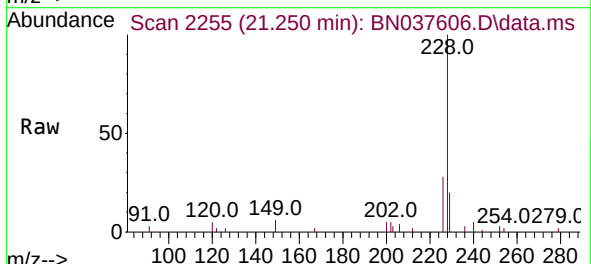
Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

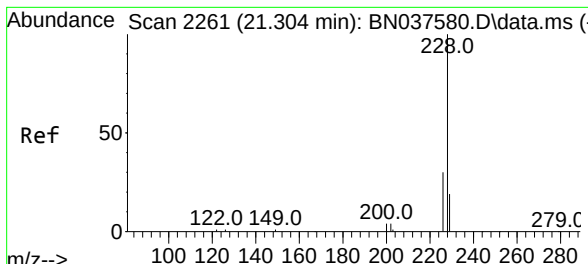
Tgt Ion:244	Resp:	4395
Ion Ratio	Lower	Upper
244	100	
212	10.0	8.2 12.2
122	16.2	13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.402 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Tgt Ion:228	Resp:	6132
Ion Ratio	Lower	Upper
228	100	
226	28.0	21.5 32.3
229	20.2	16.5 24.7

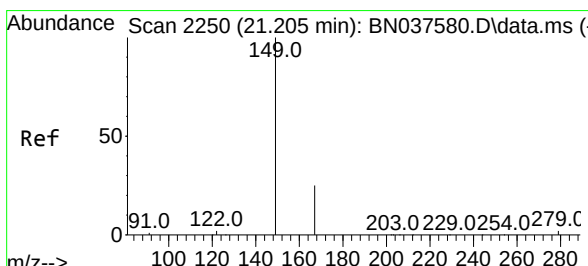
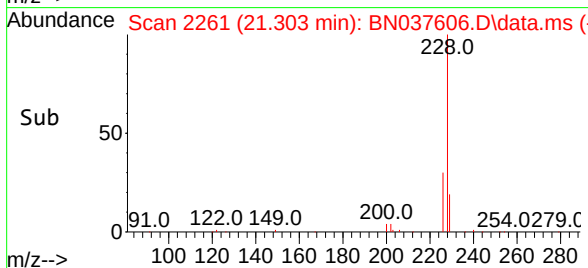
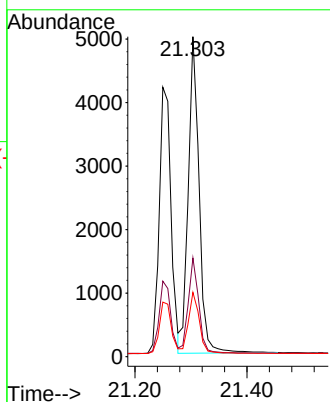
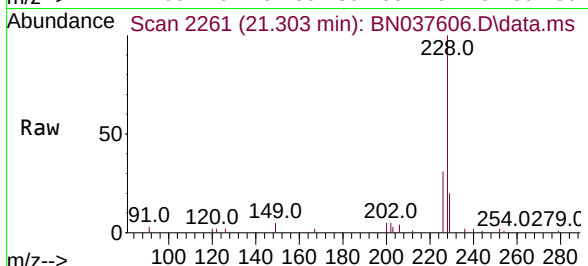




#33
 Chrysene
 Concen: 0.394 ng
 RT: 21.303 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

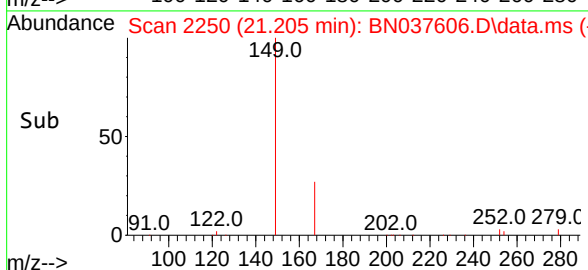
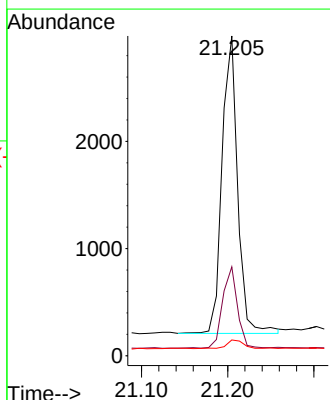
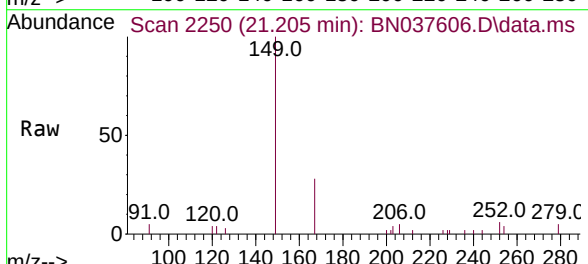
Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MSD

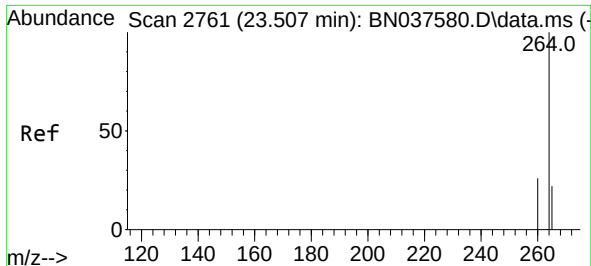
Tgt Ion:	228	Resp:	6692
Ion Ratio	Lower	Upper	
228	100		
226	30.8	24.9	37.3
229	20.1	15.8	23.8



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.558 ng
 RT: 21.205 min Scan# 2250
 Delta R.T. -0.000 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

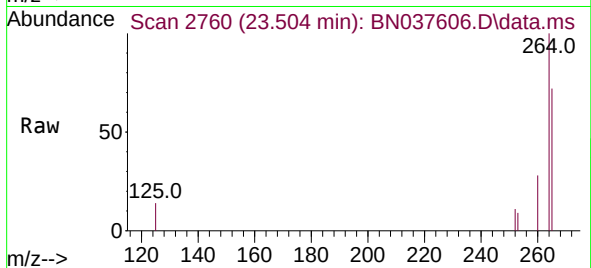
Tgt Ion:	149	Resp:	3509
Ion Ratio	Lower	Upper	
149	100		
167	25.9	20.5	30.7
279	3.1	2.6	4.0





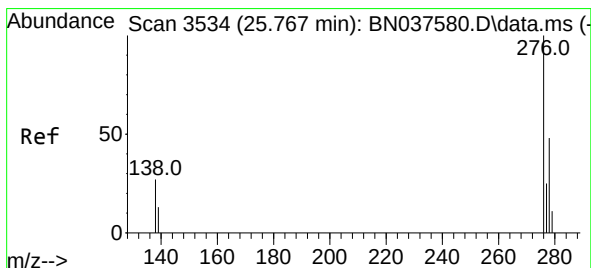
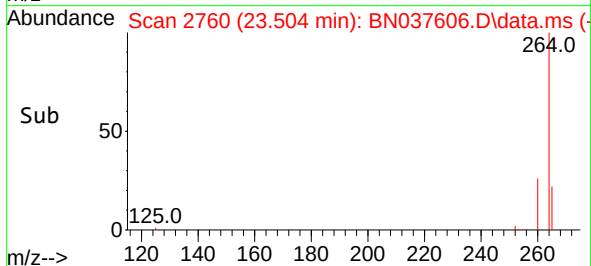
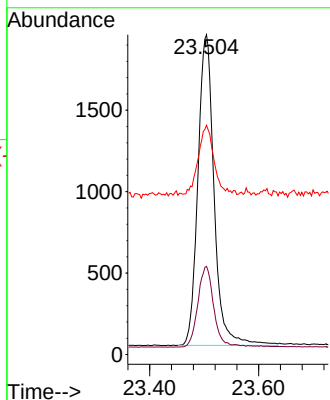
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.504 min Scan# 21
 Delta R.T. -0.003 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MSD



Tgt Ion: 264 Resp: 3935

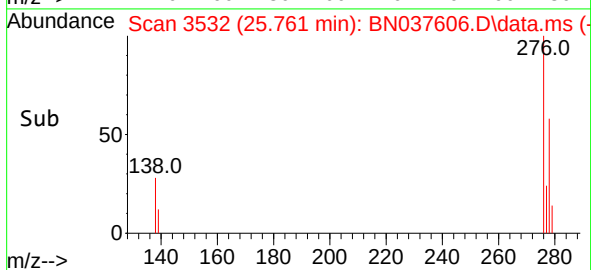
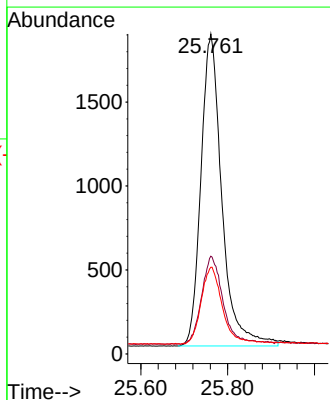
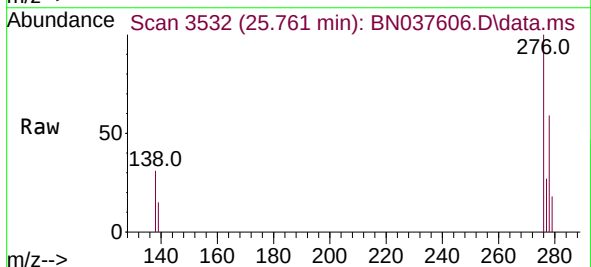
Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.6	32.4
265	71.7	48.2	72.4

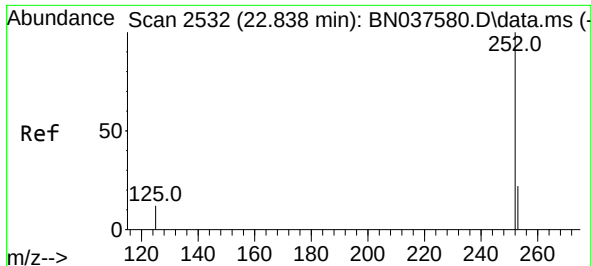


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.376 ng
 RT: 25.761 min Scan# 3532
 Delta R.T. -0.006 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

Tgt Ion: 276 Resp: 6228

Ion	Ratio	Lower	Upper
276	100		
138	28.3	23.3	34.9
277	25.2	19.5	29.3





#37

Benzo(b)fluoranthene

Concen: 0.420 ng

RT: 22.832 min Scan# 2532

Delta R.T. -0.006 min

Lab File: BN037606.D

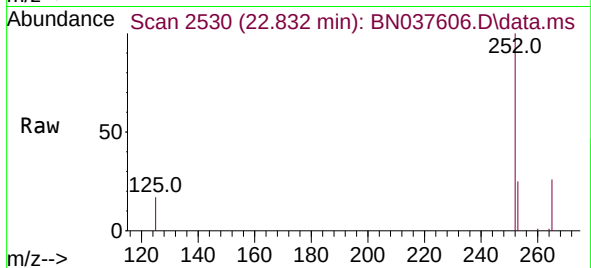
Acq: 19 Aug 2025 14:17

Instrument :

BNA_N

ClientSampleId :

MW-17B-55.5-081225MSD



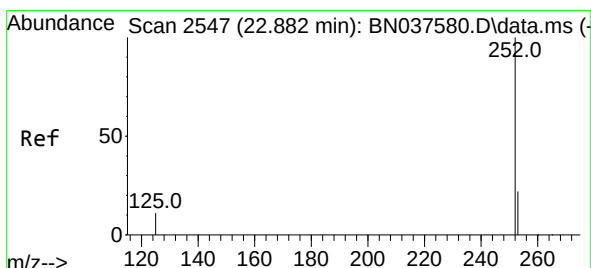
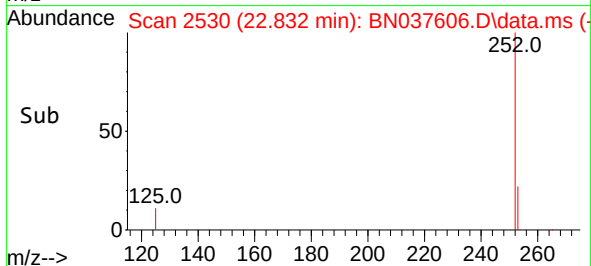
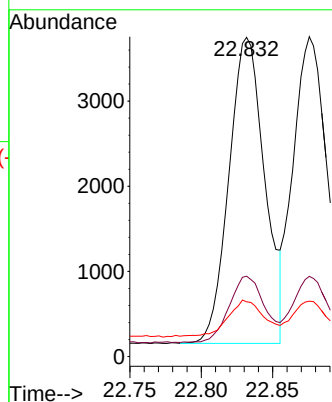
Tgt Ion:252 Resp: 6261

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

125 17.1 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.373 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

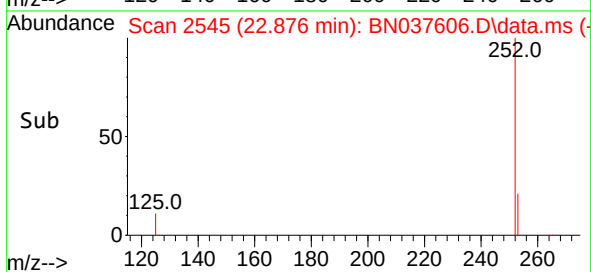
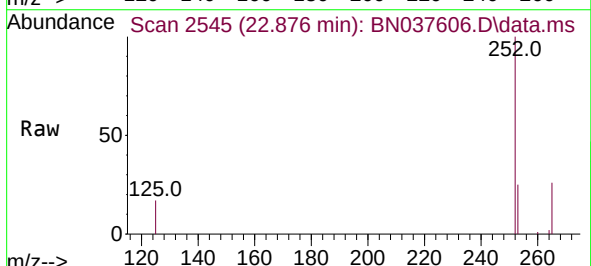
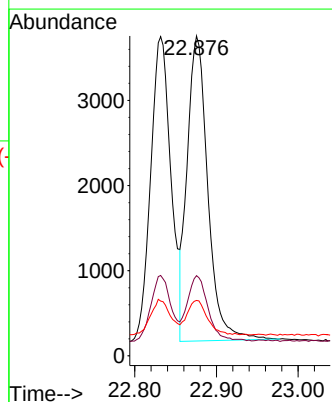
Tgt Ion:252 Resp: 6279

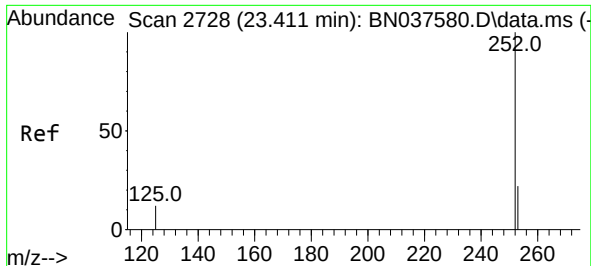
Ion Ratio Lower Upper

252 100

253 25.1 19.9 29.9

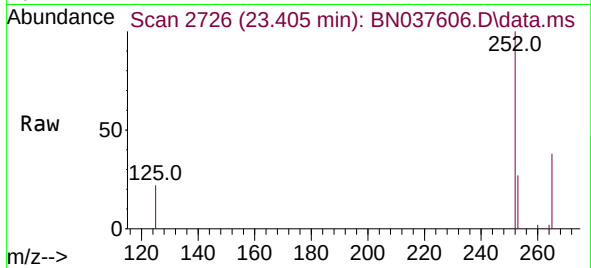
125 17.3 15.0 22.6



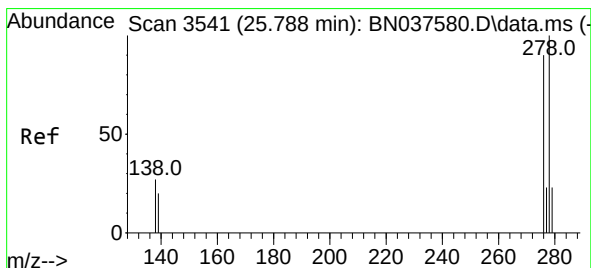
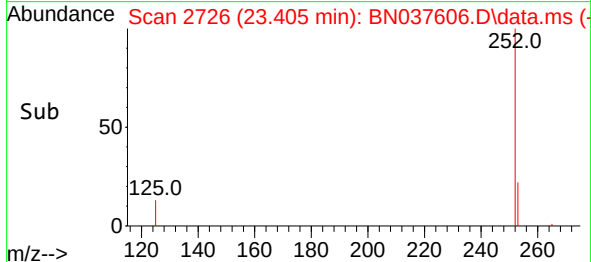
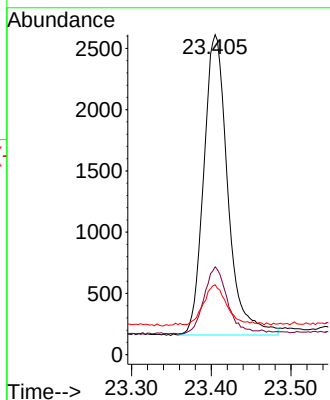


#39
Benzo(a)pyrene
Concen: 0.415 ng
RT: 23.405 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

Instrument :
BNA_N
ClientSampleId :
MW-17B-55.5-081225MSD

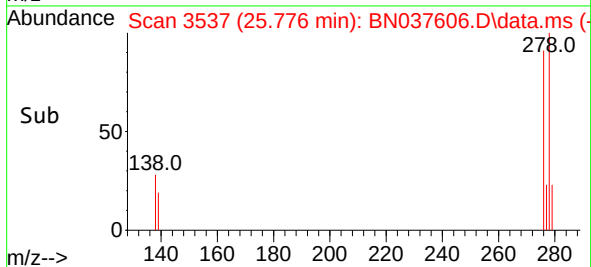
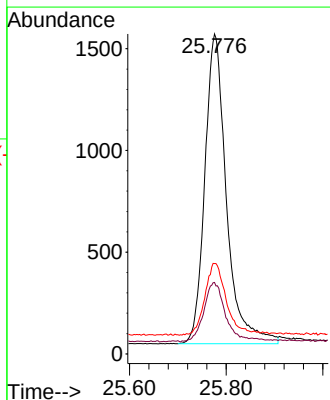
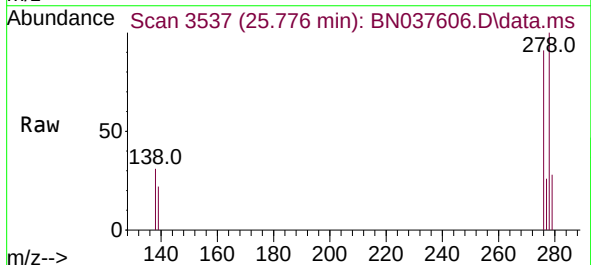


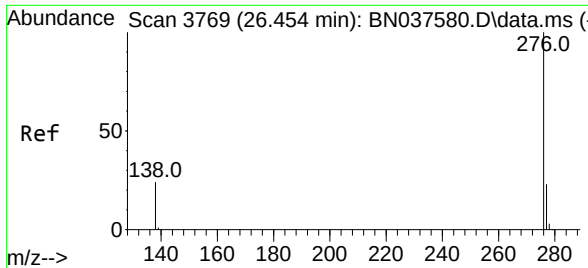
Tgt Ion:252	Resp:	5127
Ion	Ratio	Lower Upper
252	100	
253	27.4	21.6 32.4
125	21.9	16.8 25.2



#40
Dibenzo(a,h)anthracene
Concen: 0.369 ng
RT: 25.776 min Scan# 3537
Delta R.T. -0.012 min
Lab File: BN037606.D
Acq: 19 Aug 2025 14:17

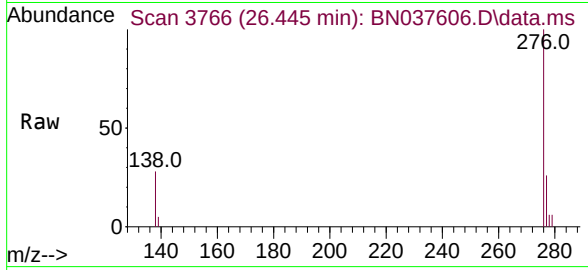
Tgt Ion:278	Resp:	4745
Ion	Ratio	Lower Upper
278	100	
139	22.3	18.3 27.5
279	28.2	22.5 33.7





#41
 Benzo(g,h,i)perylene
 Concen: 0.401 ng
 RT: 26.445 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN037606.D
 Acq: 19 Aug 2025 14:17

Instrument :
 BNA_N
 ClientSampleId :
 MW-17B-55.5-081225MSD



Tgt Ion:	276	Resp:	5431
Ion Ratio	Lower	Upper	
276	100		
277	26.2	21.0	31.4
138	27.8	21.7	32.5

