

Cover Page

Order ID : Q3213

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q3213-01
Q3213-02
Q3213-03
Q3213-04
Q3213-05
Q3213-06
Q3213-07
Q3213-08
Q3213-09
Q3213-10

Client Sample Number

BP-VPB-184-TB-20250923
VPB184-HYD-20250924
BP-VPB-184-GW-340-342
BP-VPB-184-GW-360-362
BP-VPB-184-GW-380-382
BP-VPB-184-DUP-20250923
BP-VPB-184-GW-400-402
BP-VPB-184-GW-420-422
BP-VPB-184-GW-440-442
BP-VPB-184-EB-20250923

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: 10/8/2025

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 # Q3213

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 09/25/2025.

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 except for, VPB184-HYD-20250924 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 15%], failed due to matrix interference, as seen in the chromatogram. There was no additional volume of this water sample available for re-extraction and as re-analysis, , Therefor no further corrective action was taken.

BP-VPB-184-GW-380-382 [Terphenyl-d14 - 142%],

BP-VPB-184-GW-420-422 [Terphenyl-d14 - 151%] and

BP-VPB-184-EB-20250923 [Terphenyl-d14 - 147%]. Failed surrogate is not associated with DOD, Therefor no further corrective action was taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate 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.



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E. Additional Comments:

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

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

The not QT review data is reported in the Miscellaneous.

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: Q3213

MATRIX: Water

METHOD: 8270-Modified/3510

	NA	NO	YES
1. Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2. GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3. GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4. GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5. GC/MS Calibration Requirements.			✓
The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			
6. Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7. Surrogate Recoveries Meet Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
The Surrogate recoveries were met for all analysis except for, VPB184-HYD-20250924 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 15%], failed due to matrix interference, as seen in the chromatogram. There was no additional volume of this water sample available for re-extraction and as re-analysis, , Therefor no further corrective action was taken. BP-VPB-184-GW-380-382 [Terphenyl-d14 - 142%], BP-VPB-184-GW-420-422 [Terphenyl-d14 - 151%] and BP-VPB-184-EB-20250923 [Terphenyl-d14 - 147%]. Failed surrogate is not associated with DOD, Therefor no further corrective action was taken.			

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

(CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all compounds.			
	The Blank Spike Duplicate met requirements for all compounds.			
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.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3213

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: 10/08/2025

LAB CHRONICLE

OrderID:	Q3213	OrderDate:	9/25/2025 2:33:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	A12,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3213-02	VPB184-HYD-20250924	Water			09/24/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-03	BP-VPB-184-GW-340-342	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-05	BP-VPB-184-GW-380-382	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-06	BP-VPB-184-DUP-20250923	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-08	BP-VPB-184-GW-420-422	Water			09/24/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	
Q3213-10	BP-VPB-184-EB-20250923	Water			09/23/25			09/25/25
			SVOC-SIMGroup1	8270-Modified		09/26/25	10/07/25	

Hit Summary Sheet SW-846

SDG No.: Q3213

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-184-GW-340-342								
Q3213-03	BP-VPB-184-GW-340-34 WATER	1,4-Dioxane	0.270		0.07	0.21	0.21	ug/L
		Total Svoc :			0.27			
		Total Concentration:			0.27			
Client ID : BP-VPB-184-GW-380-382								
Q3213-05	BP-VPB-184-GW-380-38 WATER	1,4-Dioxane	0.420		0.11	0.34	0.34	ug/L
		Total Svoc :			0.42			
		Total Concentration:			0.42			
Client ID : BP-VPB-184-DUP-20250923								
Q3213-06	BP-VPB-184-DUP-202509 WATER	1,4-Dioxane	0.470		0.13	0.39	0.39	ug/L
		Total Svoc :			0.47			
		Total Concentration:			0.47			
Client ID : BP-VPB-184-GW-420-422								
Q3213-08	BP-VPB-184-GW-420-42 WATER	1,4-Dioxane	0.330		0.07	0.21	0.21	ug/L
		Total Svoc :			0.33			
		Total Concentration:			0.33			
Client ID : BP-VPB-184-EB-20250923								
Q3213-10	BP-VPB-184-EB-202509 WATER	1,4-Dioxane	0.300		0.09	0.27	0.27	ug/L
		Total Svoc :			0.30			
		Total Concentration:			0.30			



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3213

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169904BL	PB169904BL	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.28	70		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.38	94		53	106
		Terphenyl-d14	0.4	0.42	104		58	132
PB169904BS	PB169904BS	2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.28	69		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
PB169904BSD	PB169904BSD	2-Methylnaphthalene-d10	0.4	0.32	80		30	150
		Fluoranthene-d10	0.4	0.28	71		30	150
		Nitrobenzene-d5	0.4	0.40	100		55	111
		2-Fluorobiphenyl	0.4	0.37	91		53	106
		Terphenyl-d14	0.4	0.51	128		58	132
Q3213-02	VPB184-HYD-20250924	2-Methylnaphthalene-d10	0.4	0.014	4	*	30	150
		Fluoranthene-d10	0.4	0.061	15	*	30	150
		Nitrobenzene-d5	0.4	0.36	89		55	111
		2-Fluorobiphenyl	0.4	0.37	93		53	106
		Terphenyl-d14	0.4	0.52	129		58	132
Q3213-03	BP-VPB-184-GW-340-342	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q3213-05	BP-VPB-184-GW-380-382	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
Q3213-06	BP-VPB-184-DUP-20250923	2-Methylnaphthalene-d10	0.4	0.29	73		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.35	88		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.51	127		58	132
Q3213-08	BP-VPB-184-GW-420-422	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.36	90		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.61	151	*	58	132
Q3213-10	BP-VPB-184-EB-20250923	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.33	82		55	111
		2-Fluorobiphenyl	0.4	0.34	85		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3213

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038037.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB169904BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3213

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN038038.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB169904BSD	1,4-Dioxane	0.4	0.32	ug/L	80	0			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169904BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3213

Lab File ID: BN038023.D

Lab Sample ID: PB169904BL

Instrument ID: BNA_N

Date Extracted: 09/26/2025

Matrix: (soil/water) Water

Date Analyzed: 10/07/2025

Level: (low/med) LOW

Time Analyzed: 00:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169904BS	PB169904BS	BN038037.D	10/07/2025
VPB184-HYD-20250924	Q3213-02	BN038028.D	10/07/2025
BP-VPB-184-GW-340-342	Q3213-03	BN038029.D	10/07/2025
BP-VPB-184-GW-380-382	Q3213-05	BN038030.D	10/07/2025
PB169904BSD	PB169904BSD	BN038038.D	10/07/2025
BP-VPB-184-DUP-20250923	Q3213-06	BN038031.D	10/07/2025
BP-VPB-184-GW-420-422	Q3213-08	BN038032.D	10/07/2025
BP-VPB-184-EB-20250923	Q3213-10	BN038033.D	10/07/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037860.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3213
DFTPP Injection Date: 09/23/2025
DFTPP Injection Time: 11:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
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	6.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	72.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.7 (20.8) 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	BN037861.D	09/23/2025	12:13
SSTDICC0.2	SSTDICC0.2	BN037862.D	09/23/2025	12:49
SSTDICCC0.4	SSTDICCC0.4	BN037863.D	09/23/2025	13:25
SSTDICC0.8	SSTDICC0.8	BN037864.D	09/23/2025	14:02
SSTDICC1.6	SSTDICC1.6	BN037865.D	09/23/2025	14:38
SSTDICC3.2	SSTDICC3.2	BN037866.D	09/23/2025	15:15
SSTDICC5.0	SSTDICC5.0	BN037867.D	09/23/2025	15:51



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038021.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q3213
DFTPP Injection Date: 10/06/2025
DFTPP Injection Time: 22:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	81.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.7 (21.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038022.D	10/06/2025	23:32
PB169904BL	PB169904BL	BN038023.D	10/07/2025	00:08
VPB184-HYD-20250924	Q3213-02	BN038028.D	10/07/2025	03:09
BP-VPB-184-GW-340-342	Q3213-03	BN038029.D	10/07/2025	03:46
BP-VPB-184-GW-380-382	Q3213-05	BN038030.D	10/07/2025	04:22
BP-VPB-184-DUP-20250923	Q3213-06	BN038031.D	10/07/2025	04:58
BP-VPB-184-GW-420-422	Q3213-08	BN038032.D	10/07/2025	05:34
BP-VPB-184-EB-20250923	Q3213-10	BN038033.D	10/07/2025	06:10
PB169904BS	PB169904BS	BN038037.D	10/07/2025	08:35
PB169904BSD	PB169904BSD	BN038038.D	10/07/2025	09:11
SSTDCCC0.4EC	SSTDCCC0.4	BN038039.D	10/07/2025	09:47

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3213

Client ID : SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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	8262	7.804	22968	10.61	12134	14.46
UPPER LIMIT	16524	8.304	45936	11.105	24268	14.962
LOWER LIMIT	4131	7.304	11484	10.105	6067	13.962
EPA SAMPLE NO.						
01 PB169904BS	9121	7.80	24908	10.61	11773	14.45
02 PB169904BSD	9176	7.80	24837	10.61	12022	14.45
03 VPB184-HYD-20250924	9188	7.80	24871	10.61	11299	14.46
04 BP-VPB-184-GW-340-342	8590	7.80	24886	10.61	12953	14.45
05 BP-VPB-184-GW-380-382	8865	7.80	26053	10.61	14244	14.46
06 BP-VPB-184-DUP-20250923	10013	7.80	28507	10.61	13798	14.45
07 BP-VPB-184-GW-420-422	9243	7.80	27657	10.61	15535	14.45
08 BP-VPB-184-EB-20250923	9567	7.80	28389	10.61	15544	14.46
09 PB169904BL	7850	7.80	20745	10.61	9107	14.46

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.: Q3213

Client ID: SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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	22733	17.21	13562	21.384	10530	23.703
UPPER LIMIT	45466	17.71	27124	21.884	21060	24.203
LOWER LIMIT	11366.5	16.71	6781	20.884	5265	23.203
EPA SAMPLE NO.						
01 PB169904BS	20442	17.21	10195	21.39	9225	23.71
02 PB169904BSD	21952	17.21	11724	21.39	9473	23.71
03 VPB184-HYD-20250924	19333	17.21	14413	21.39	10609	23.71
04 BP-VPB-184-GW-340-342	23191	17.21	14461	21.39	12966	23.71
05 BP-VPB-184-GW-380-382	27982	17.21	20322	21.38	15136	23.71
06 BP-VPB-184-DUP-20250923	22690	17.21	16816	21.39	17577	23.71
07 BP-VPB-184-GW-420-422	29744	17.20	17950	21.38	14042	23.70
08 BP-VPB-184-EB-20250923	28505	17.21	16926	21.39	14124	23.71
09 PB169904BL	15264	17.21	8024	21.38	7902	23.71

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

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/24/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	VPB184-HYD-20250924	SDG No.:	Q3213
Lab Sample ID:	Q3213-02	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
BN038028.D	1	09/26/25 13:15	10/07/25 03:09	PB169904

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	0.014	*	30 - 150		4%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.061	*	30 - 150		15%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		58 - 132		129%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9190	7.804				
1146-65-2	Naphthalene-d8	24900	10.605				
15067-26-2	Acenaphthene-d10	11300	14.462				
1517-22-2	Phenanthrene-d10	19300	17.211				
1719-03-5	Chrysene-d12	14400	21.393				
1520-96-3	Perylene-d12	10600	23.709				

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\BN100625\
 Data File : BN038028.D
 Acq On : 07 Oct 2025 03:09
 Operator : RC/JU
 Sample : Q3213-02
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 VPB184-HYD-20250924

Quant Time: Oct 07 04:17:12 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

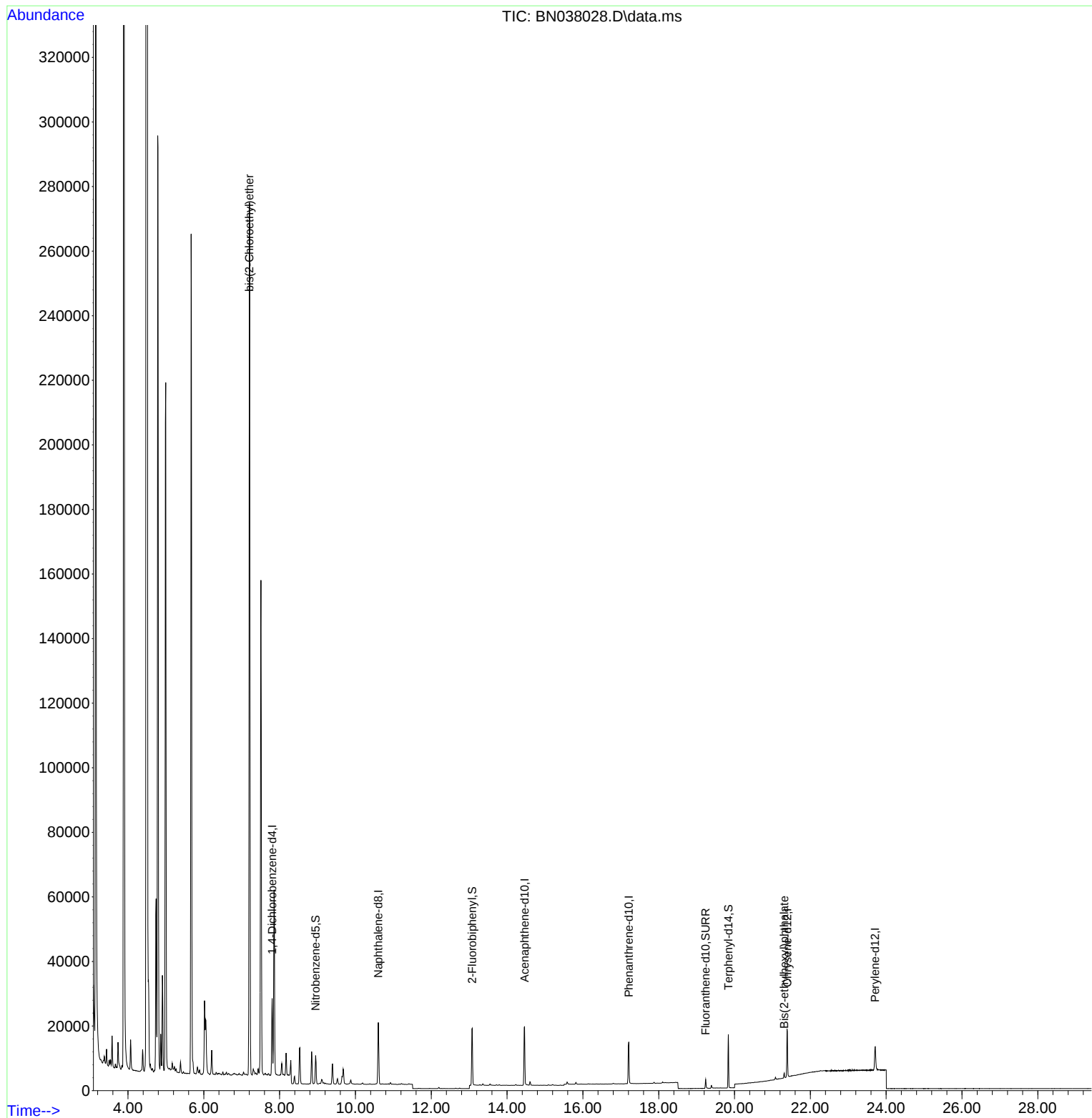
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	9188	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	24871	0.400	ng	-0.02
13) Acenaphthene-d10	14.462	164	11299	0.400	ng	-0.01
19) Phenanthrene-d10	17.211	188	19333	0.400	ng	-0.01
29) Chrysene-d12	21.393	240	14413	0.400	ng	0.00
35) Perylene-d12	23.709	264	10609	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	40	0.002	ng	0.00
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.950	82	6770	0.357	ng	-0.02
11) 2-Methylnaphthalene-d10	12.202	152	492	0.014	ng	-0.02
14) 2,4,6-Tribromophenol	15.944	330	41	0.010	ng	-0.02
15) 2-Fluorobiphenyl	13.083	172	17146	0.371	ng	-0.01
27) Fluoranthene-d10	19.239	212	2954	0.061	ng	-0.01
31) Terphenyl-d14	19.838	244	14779	0.515	ng	-0.01
Target Compounds						
6) bis(2-Chloroethyl)ether	7.204	93	174897	6.839	ng	# 44
34) Bis(2-ethylhexyl)phtha...	21.313	149	1712	0.086	ng	93

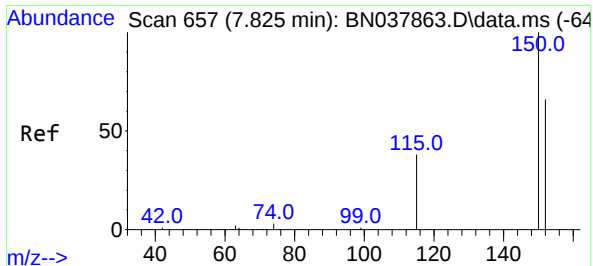
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038028.D
Acq On : 07 Oct 2025 03:09
Operator : RC/JU
Sample : Q3213-02
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250924

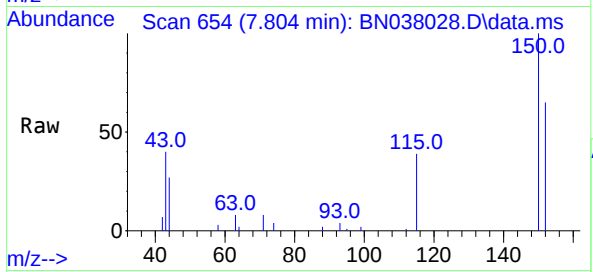
Quant Time: Oct 07 04:17:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



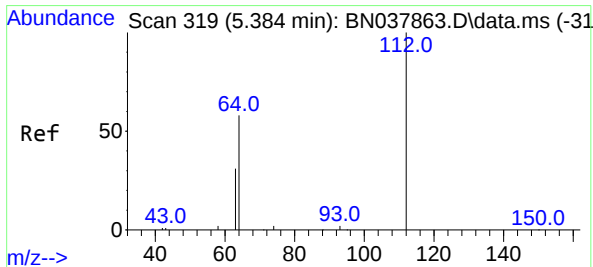
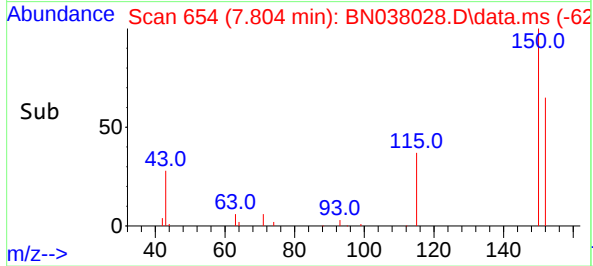
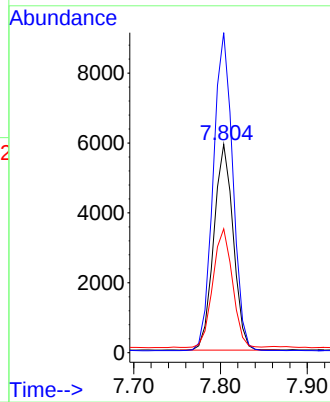


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.804 min Scan# 61
Delta R.T. -0.021 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250924

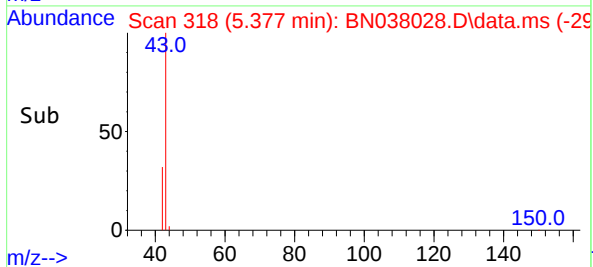
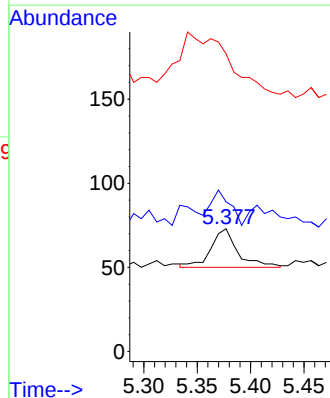
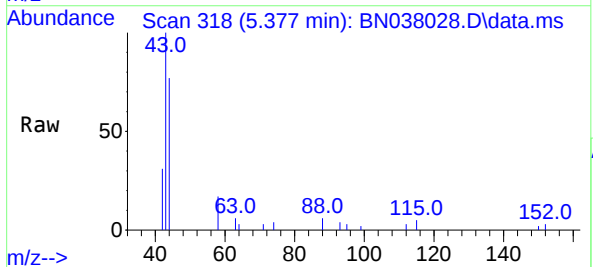


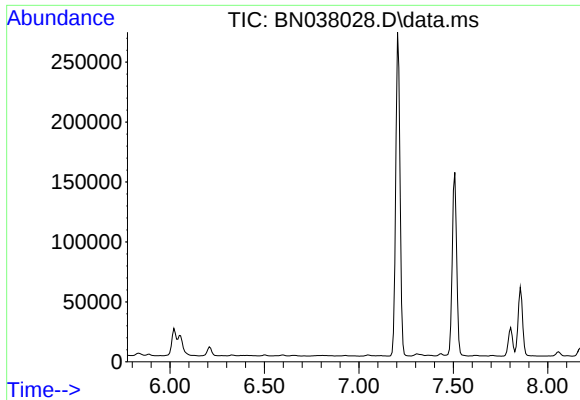
Tgt Ion:152 Resp: 9188
Ion Ratio Lower Upper
152 100
150 153.7 121.0 181.4
115 59.5 47.4 71.0



#4
2-Fluorophenol
Concen: 0.002 ng
RT: 5.377 min Scan# 318
Delta R.T. -0.007 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

Tgt Ion:112 Resp: 40
Ion Ratio Lower Upper
112 100
64 65.0 44.6 66.8
63 0.0 24.9 37.3#

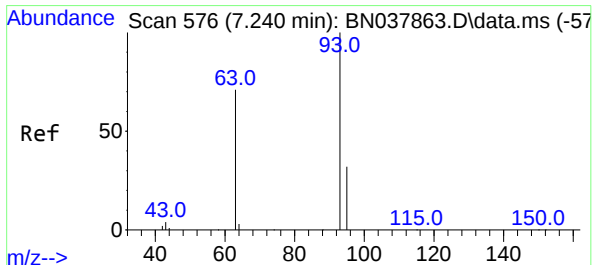
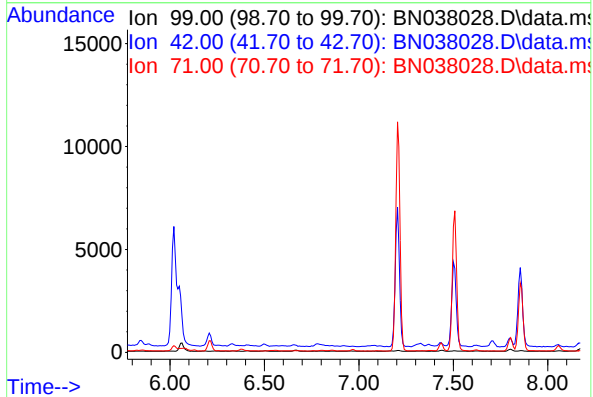




#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.97 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

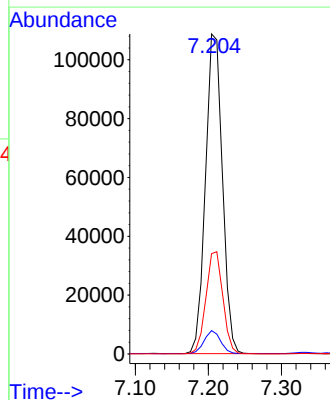
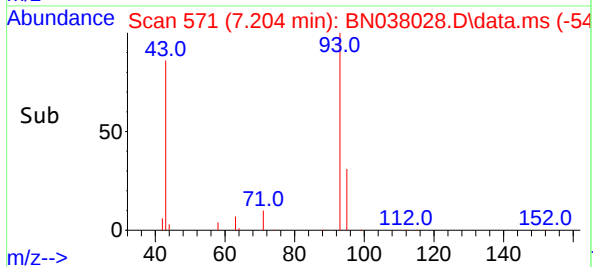
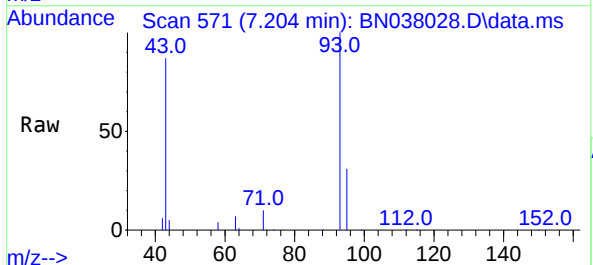
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250924

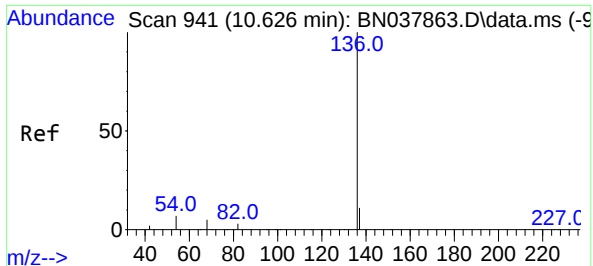
Tgt Ion: 99
Sig Exp Ratio
99 100
42 21.5
71 34.1



#6
bis(2-Chloroethyl)ether
Concen: 6.839 ng
RT: 7.204 min Scan# 571
Delta R.T. -0.036 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

Tgt Ion: 93 Resp: 174897
Ion Ratio Lower Upper
93 100
63 6.9 60.1 90.1#
95 31.9 25.4 38.2

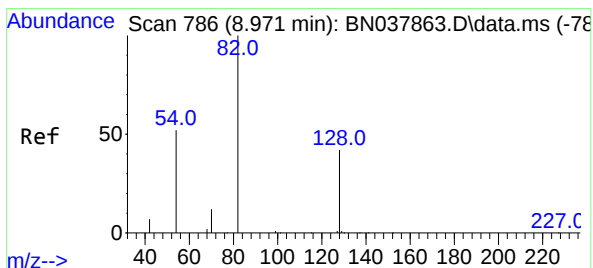
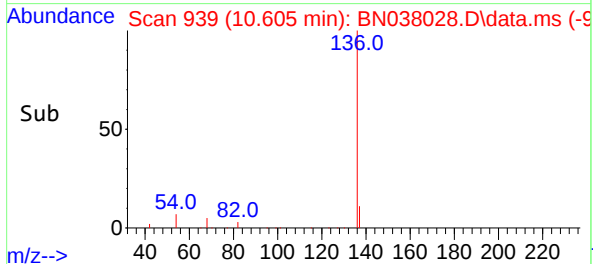
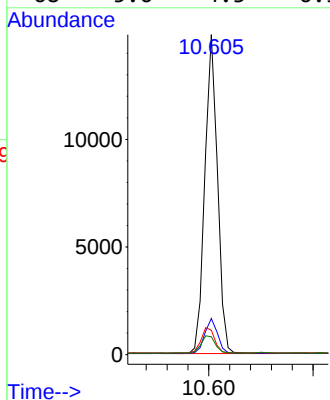
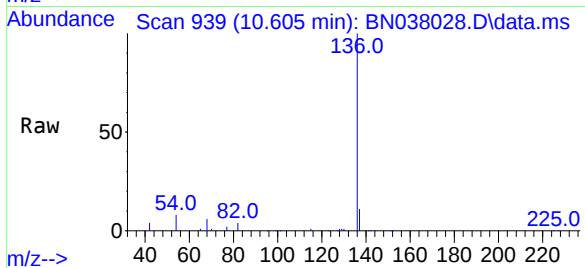




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

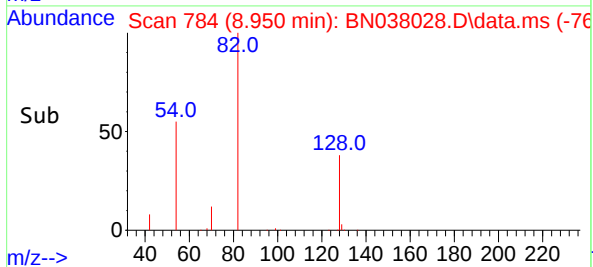
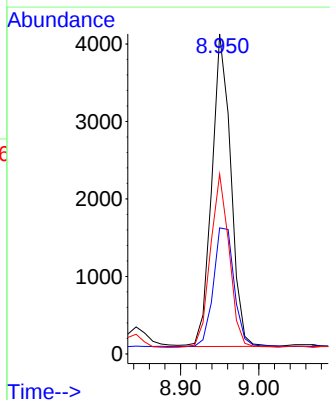
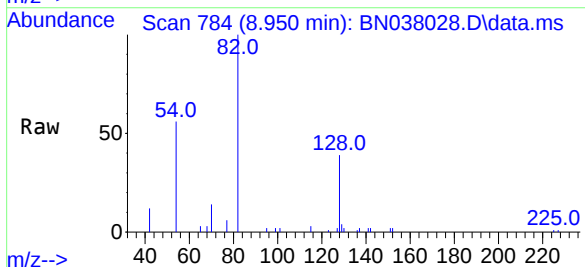
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250924

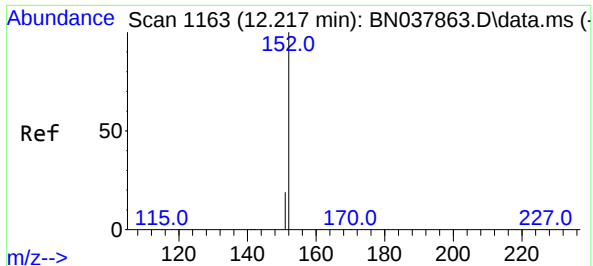
Tgt Ion:	136	Resp:	24871
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.6	5.8	8.8
68	5.6	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

Tgt Ion:	82	Resp:	6770
Ion	Ratio	Lower	Upper
82	100		
128	39.4	34.8	52.2
54	56.2	42.2	63.2

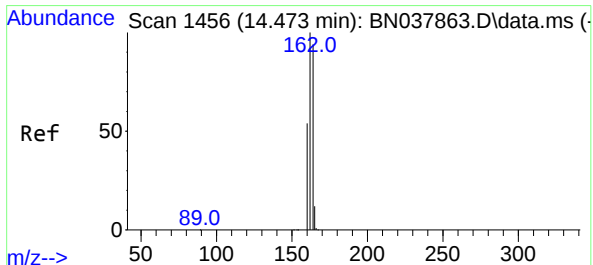
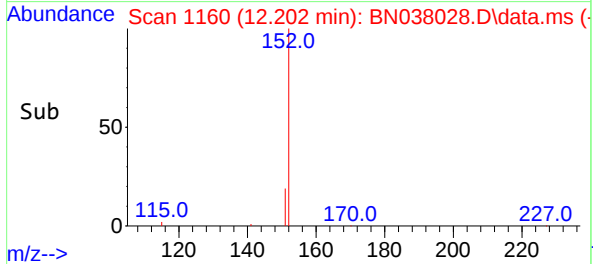
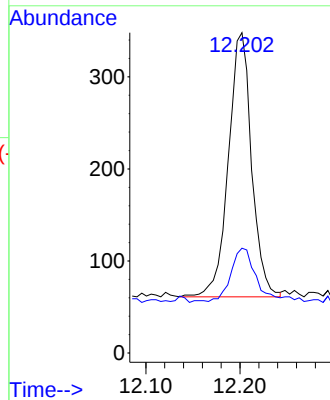
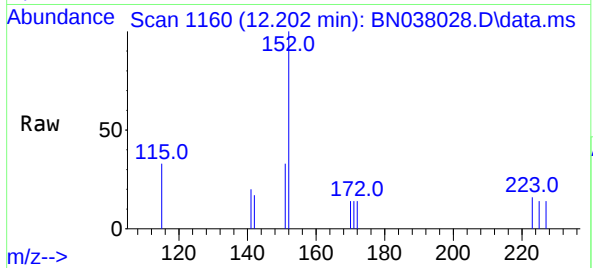




#11
2-Methylnaphthalene-d10
Concen: 0.014 ng
RT: 12.202 min Scan# 1160
Delta R.T. -0.015 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

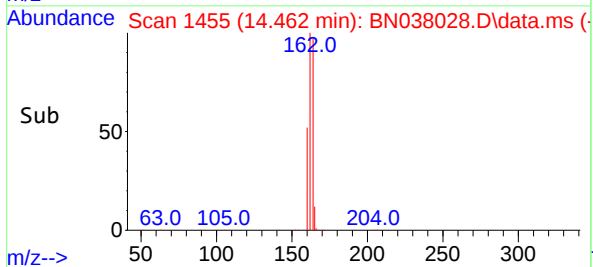
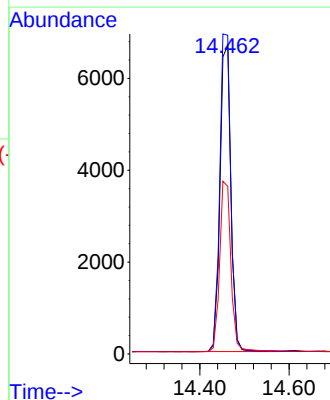
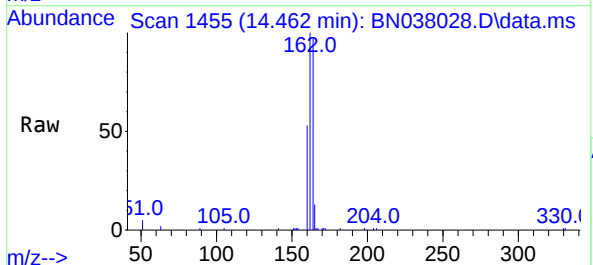
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250924

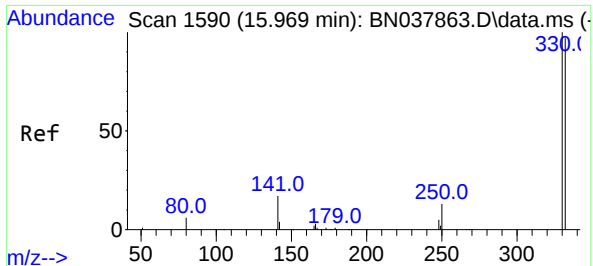
Tgt Ion:152 Resp: 492
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1455
Delta R.T. -0.011 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

Tgt Ion:164 Resp: 11299
Ion Ratio Lower Upper
164 100
162 103.3 84.8 127.2
160 54.3 46.1 69.1





#14

2,4,6-Tribromophenol

Concen: 0.010 ng

RT: 15.944 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

Instrument :

BNA_N

ClientSampleId :

VPB184-HYD-20250924

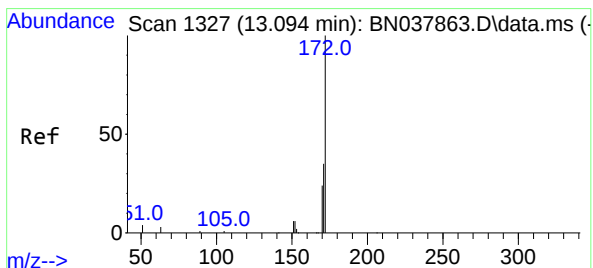
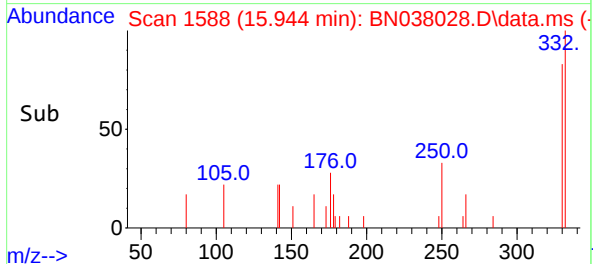
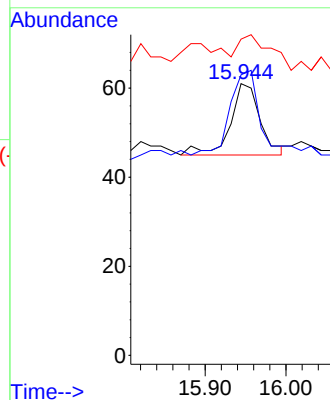
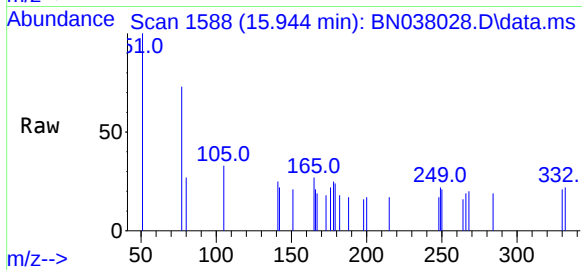
Tgt Ion:330 Resp: 41

Ion Ratio Lower Upper

330 100

332 124.4 77.2 115.8#

141 56.1 37.2 55.8#



#15

2-Fluorobiphenyl

Concen: 0.371 ng

RT: 13.083 min Scan# 1326

Delta R.T. -0.011 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

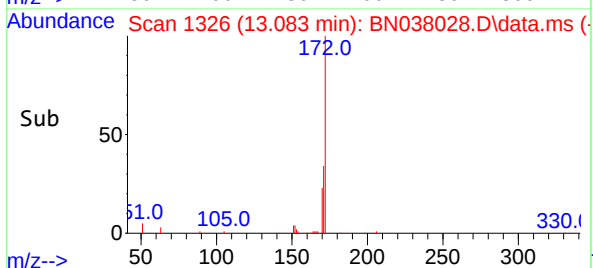
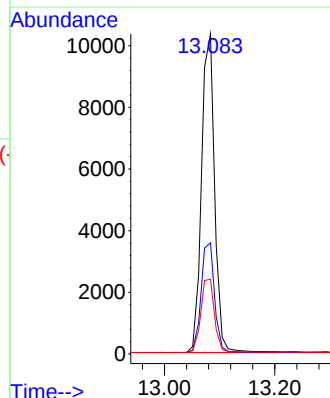
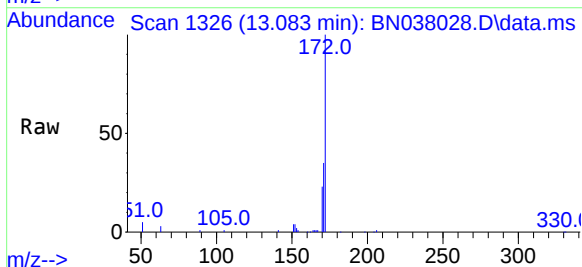
Tgt Ion:172 Resp: 17146

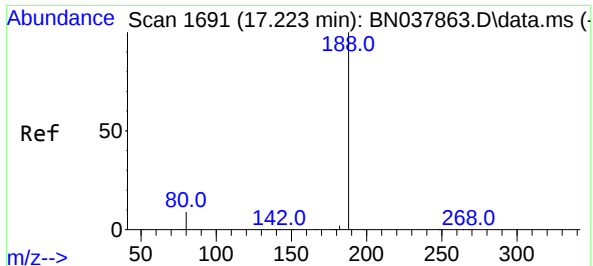
Ion Ratio Lower Upper

172 100

171 34.7 28.6 43.0

170 23.4 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

Instrument :

BNA_N

ClientSampleId :

VPB184-HYD-20250924

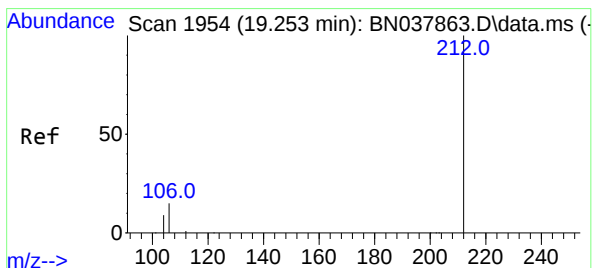
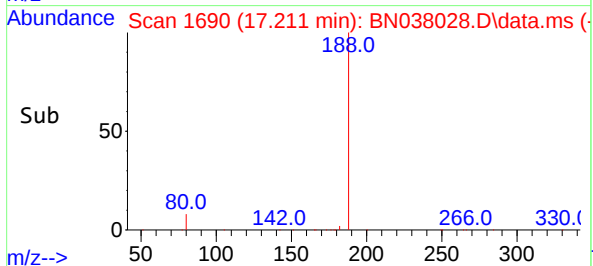
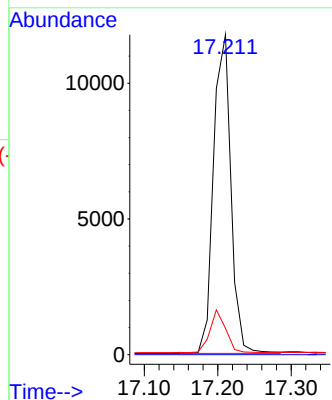
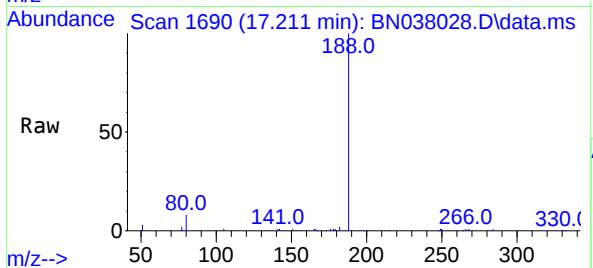
Tgt Ion:188 Resp: 19333

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 7.6 11.4



#27

Fluoranthene-d10

Concen: 0.061 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

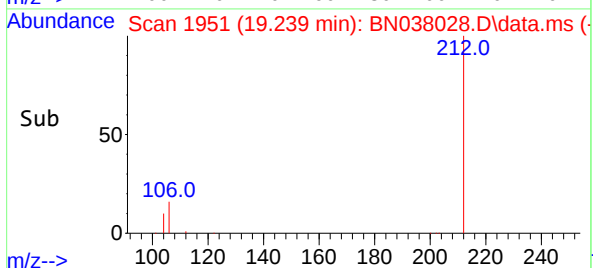
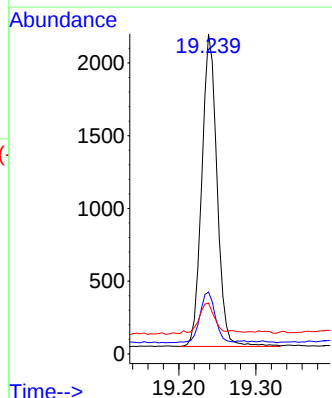
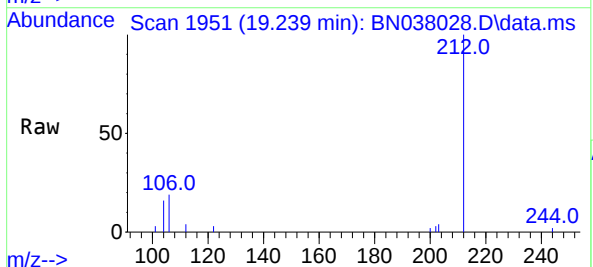
Tgt Ion:212 Resp: 2954

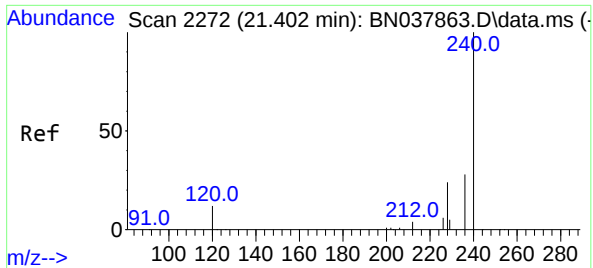
Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 10.9 7.4 11.0

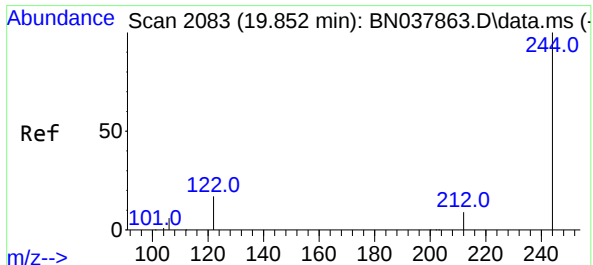
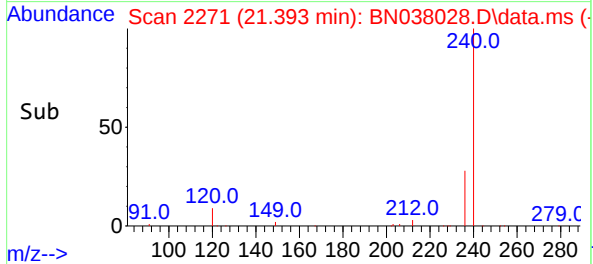
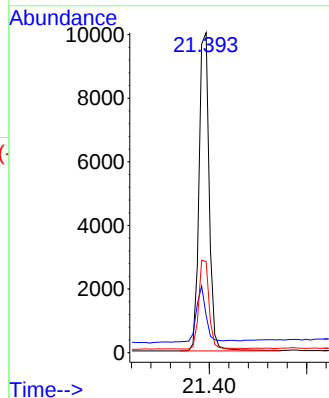
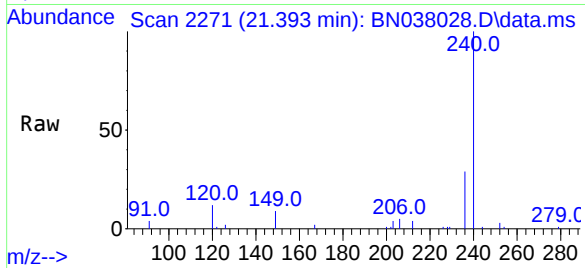




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

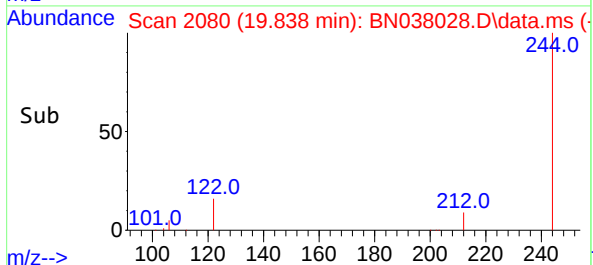
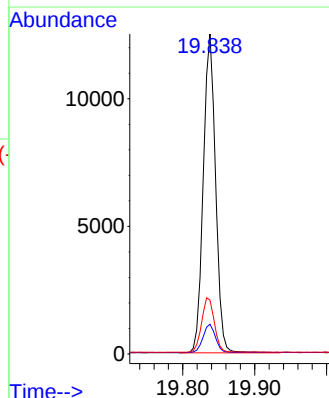
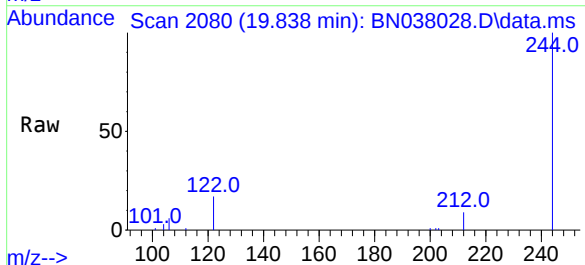
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250924

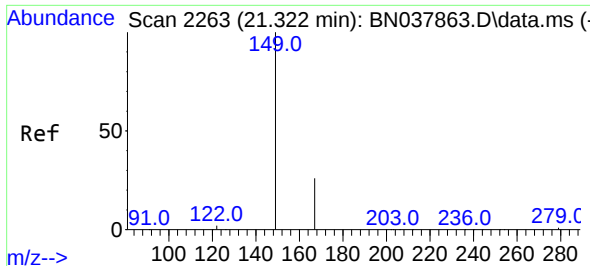
Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.6	11.4	17.2
236	28.5	23.0	34.6



#31
Terphenyl-d14
Concen: 0.515 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.6	11.4
122	16.9	13.9	20.9

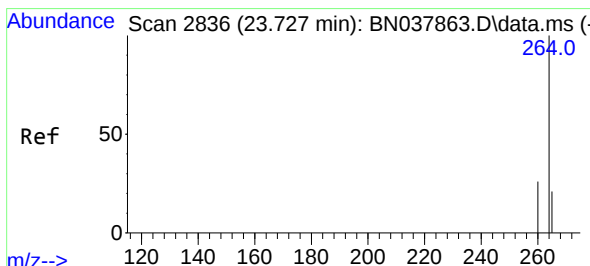
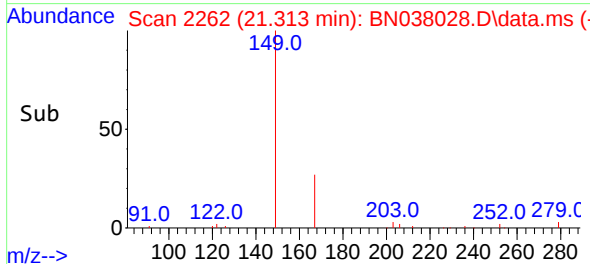
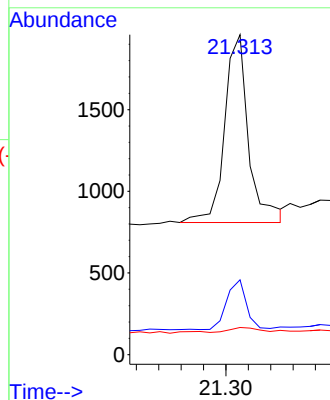
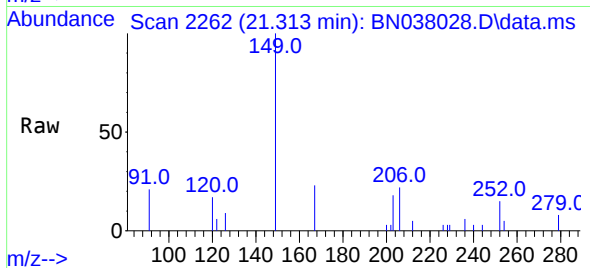




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.086 ng
RT: 21.313 min Scan# 2130
Delta R.T. -0.009 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

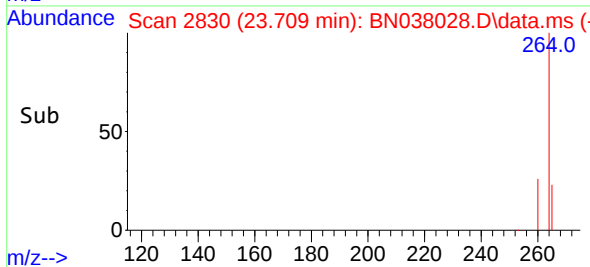
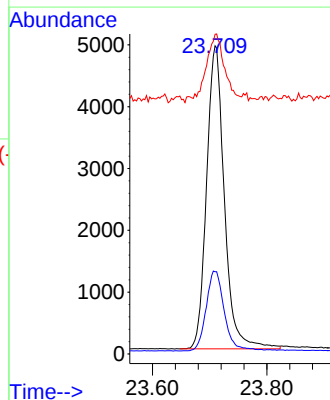
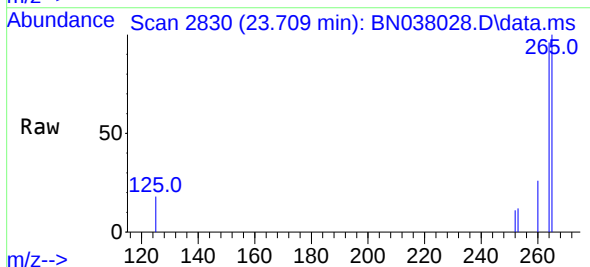
Instrument :
BNA_N
ClientSampleId :
VPB184-HYD-20250924

Tgt Ion:149 Resp: 1712
Ion Ratio Lower Upper
149 100
167 21.7 20.4 30.6
279 3.1 2.4 3.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.709 min Scan# 2830
Delta R.T. -0.018 min
Lab File: BN038028.D
Acq: 07 Oct 2025 03:09

Tgt Ion:264 Resp: 10609
Ion Ratio Lower Upper
264 100
260 26.7 21.5 32.3
265 103.7 53.8 80.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-GW-340-342	SDG No.:	Q3213
Lab Sample ID:	Q3213-03	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
BN038029.D	1	09/26/25 13:15	10/07/25 03:46	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8590	7.804				
1146-65-2	Naphthalene-d8	24900	10.605				
15067-26-2	Acenaphthene-d10	13000	14.452				
1517-22-2	Phenanthrene-d10	23200	17.211				
1719-03-5	Chrysene-d12	14500	21.393				
1520-96-3	Perylene-d12	13000	23.709				

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\BN100625\
 Data File : BN038029.D
 Acq On : 07 Oct 2025 03:46
 Operator : RC/JU
 Sample : Q3213-03
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-184-GW-340-342

Quant Time: Oct 07 04:17:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

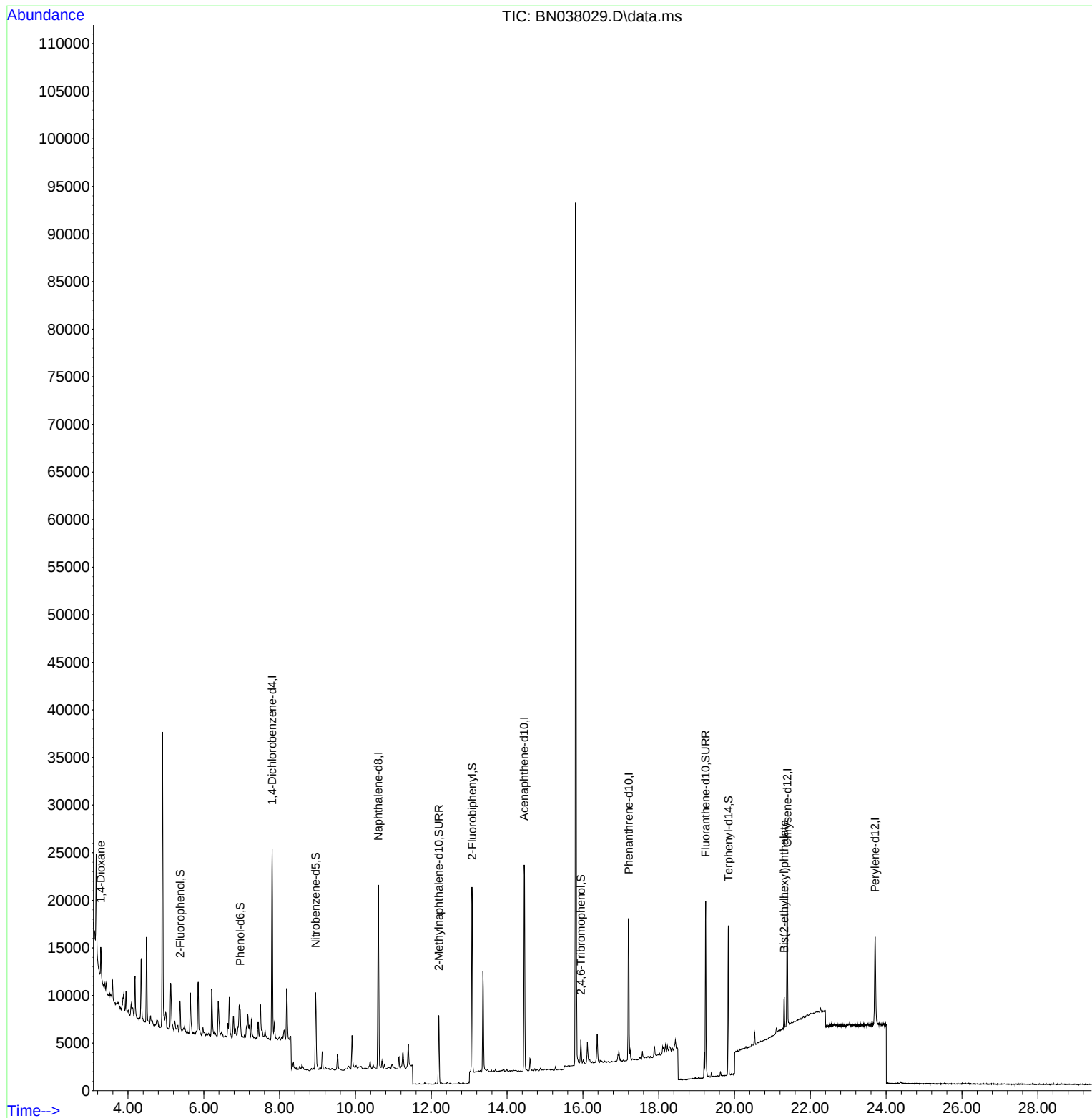
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	8590	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	24886	0.400	ng	-0.02
13) Acenaphthene-d10	14.452	164	12953	0.400	ng	-0.02
19) Phenanthrene-d10	17.211	188	23191	0.400	ng	-0.01
29) Chrysene-d12	21.393	240	14461	0.400	ng	0.00
35) Perylene-d12	23.709	264	12966	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	2447	0.125	ng	0.00
5) Phenol-d6	6.959	99	1999	0.078	ng	-0.01
8) Nitrobenzene-d5	8.950	82	6281	0.331	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	9642	0.279	ng	-0.02
14) 2,4,6-Tribromophenol	15.944	330	1361	0.277	ng	-0.02
15) 2-Fluorobiphenyl	13.083	172	17483	0.330	ng	-0.01
27) Fluoranthene-d10	19.239	212	18968	0.325	ng	-0.01
31) Terphenyl-d14	19.838	244	14430	0.501	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.283	88	2273	0.261	ng	# 79
34) Bis(2-ethylhexyl)phtha...	21.313	149	3537	0.177	ng	97

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

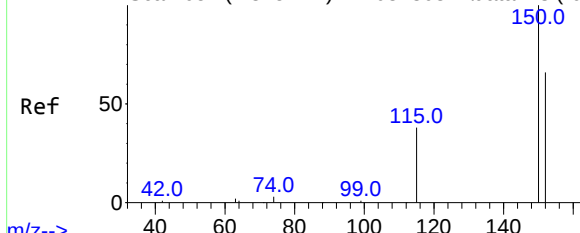
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038029.D
Acq On : 07 Oct 2025 03:46
Operator : RC/JU
Sample : Q3213-03
Misc :
ALS Vial : 29 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-340-342

Quant Time: Oct 07 04:17:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Instrument :

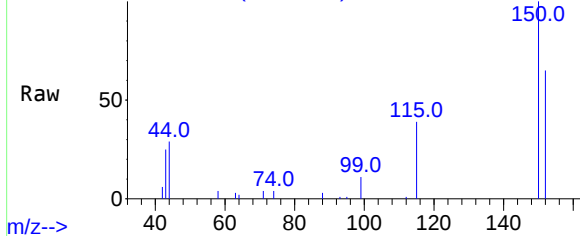
BNA_N

ClientSampleId :

BP-VPB-184-GW-340-342

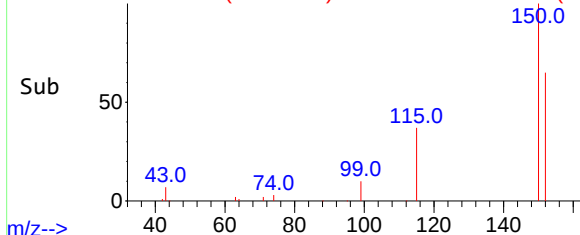
m/z-->

Abundance Scan 654 (7.804 min): BN038029.D\data.ms



m/z-->

Abundance Scan 654 (7.804 min): BN038029.D\data.ms (-62



m/z-->

Tgt Ion:152 Resp: 8590

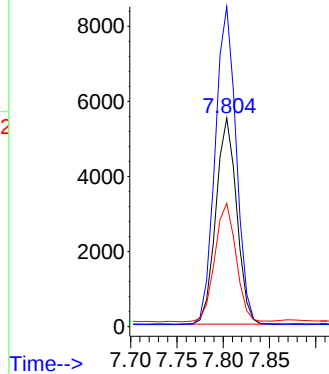
Ion Ratio Lower Upper

152 100

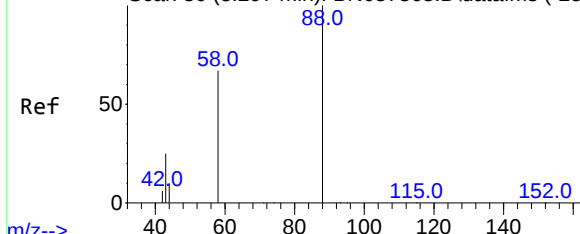
150 153.4 121.0 181.4

115 59.1 47.4 71.0

Abundance

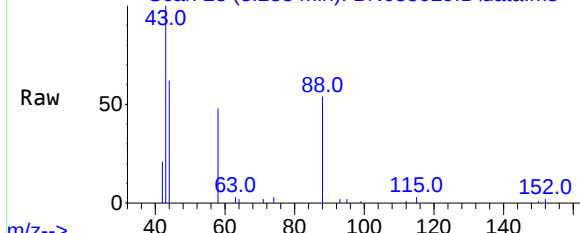


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



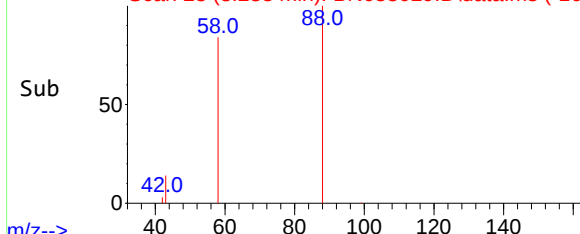
m/z-->

Abundance Scan 28 (3.283 min): BN038029.D\data.ms



m/z-->

Abundance Scan 28 (3.283 min): BN038029.D\data.ms (-16)



m/z-->

#2

1,4-Dioxane

Concen: 0.261 ng

RT: 3.283 min Scan# 28

Delta R.T. -0.015 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Tgt Ion: 88 Resp: 2273

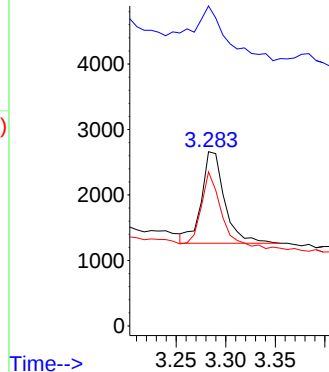
Ion Ratio Lower Upper

88 100

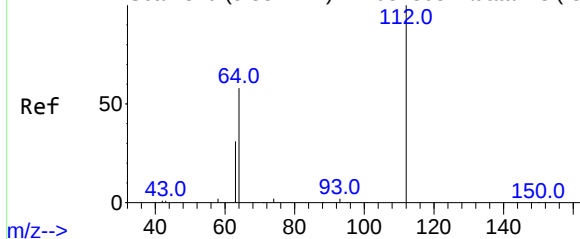
43 60.6 26.6 39.8

58 80.5 58.9 88.3

Abundance



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.125 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.007 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-340-342

Tgt Ion:112 Resp: 2447

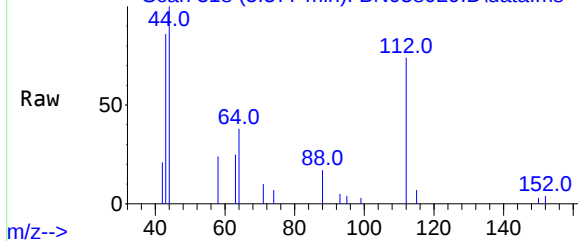
Ion Ratio Lower Upper

112 100

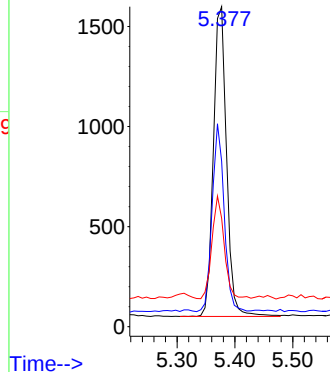
64 55.6 44.6 66.8

63 30.7 24.9 37.3

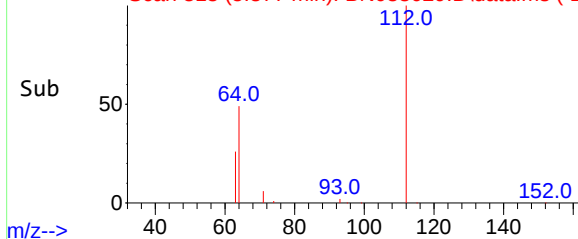
Abundance Scan 318 (5.377 min): BN038029.D\data.ms



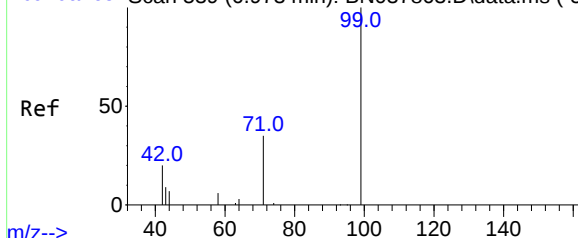
Abundance



Abundance Scan 318 (5.377 min): BN038029.D\data.ms (-29



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



#5

Phenol-d6

Concen: 0.078 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.015 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Tgt Ion: 99 Resp: 1999

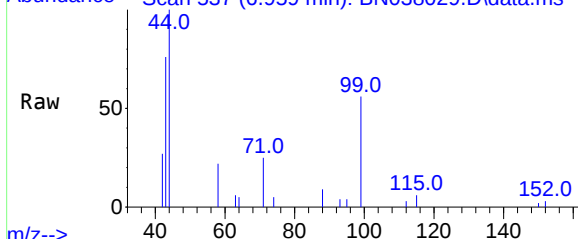
Ion Ratio Lower Upper

99 100

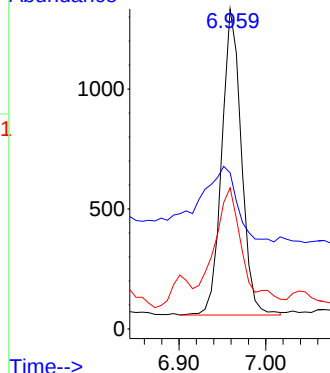
42 49.9 17.2 25.8#

71 55.4 27.3 40.9#

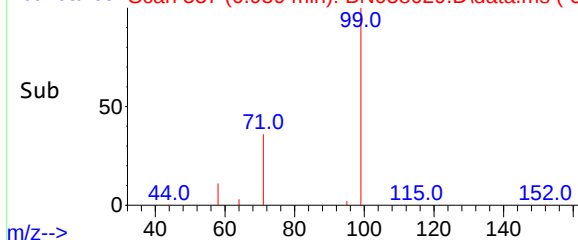
Abundance Scan 537 (6.959 min): BN038029.D\data.ms

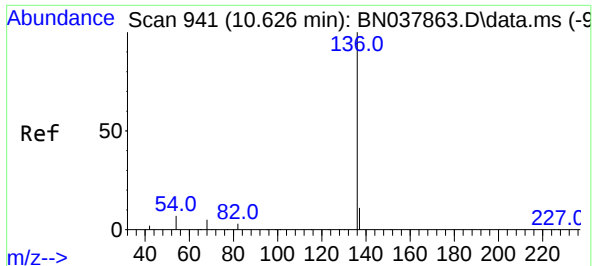


Abundance



Abundance Scan 537 (6.959 min): BN038029.D\data.ms (-51

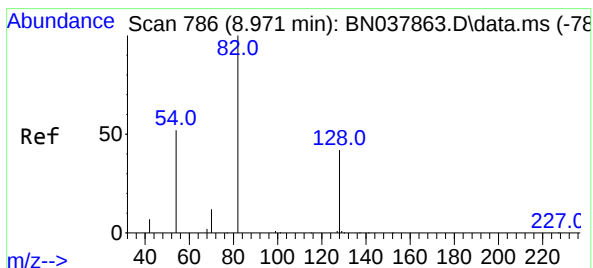
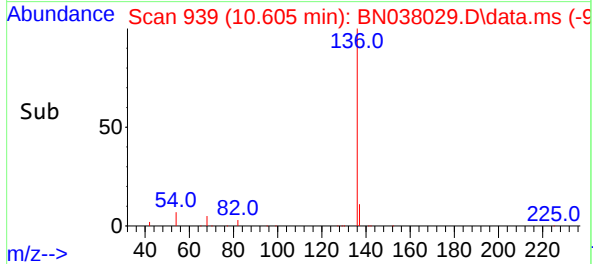
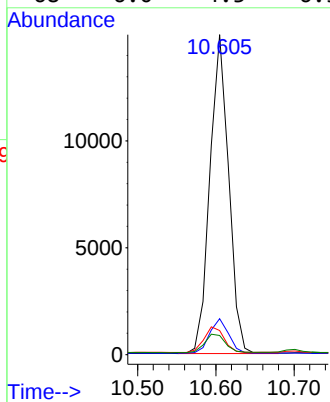
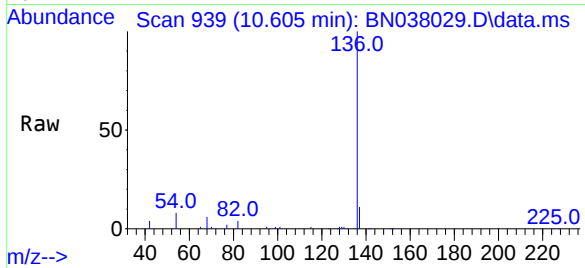




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

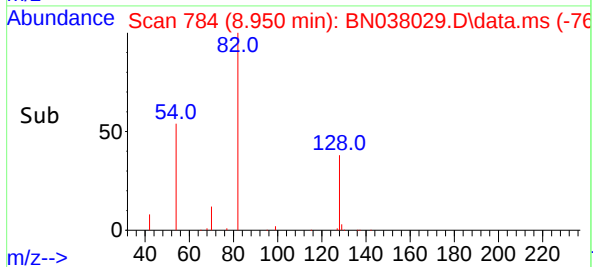
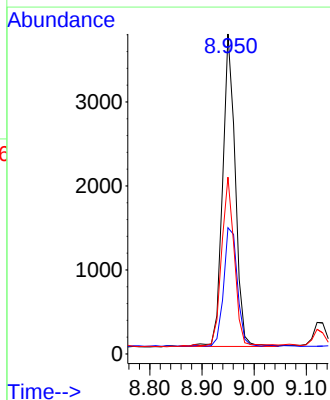
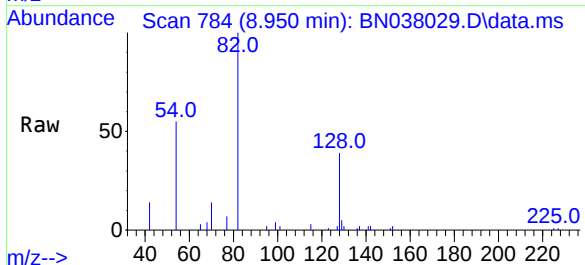
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-340-342

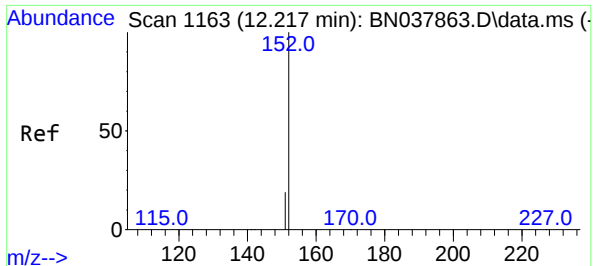
Tgt Ion:	136	Resp:	24886
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.6	5.8	8.8
68	6.0	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

Tgt Ion:	82	Resp:	6281
Ion	Ratio	Lower	Upper
82	100		
128	39.5	34.8	52.2
54	55.3	42.2	63.2

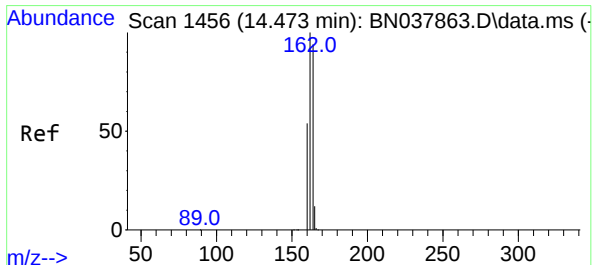
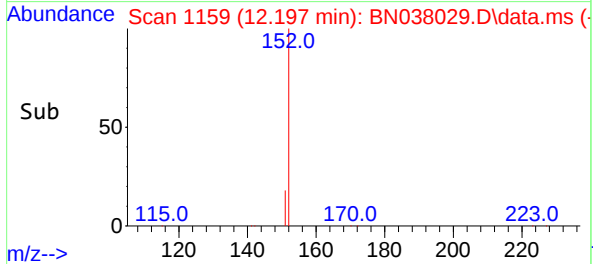
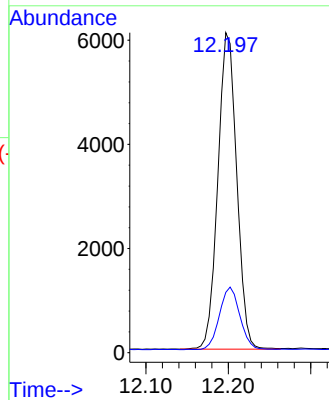
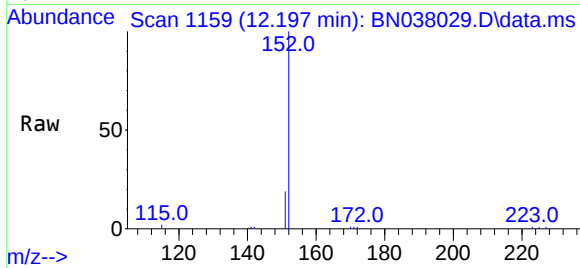




#11
2-Methylnaphthalene-d10
Concen: 0.279 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.020 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

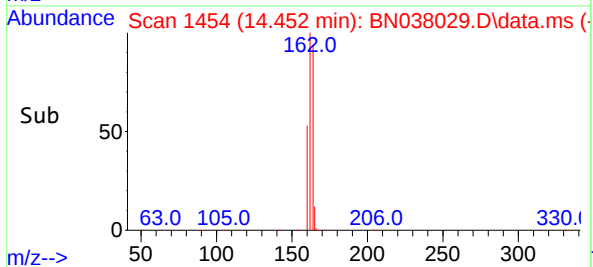
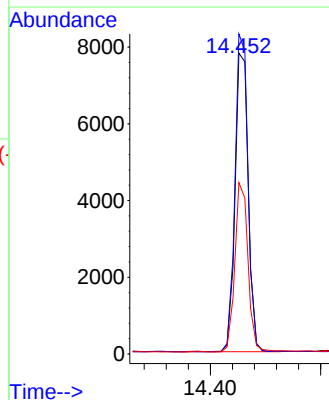
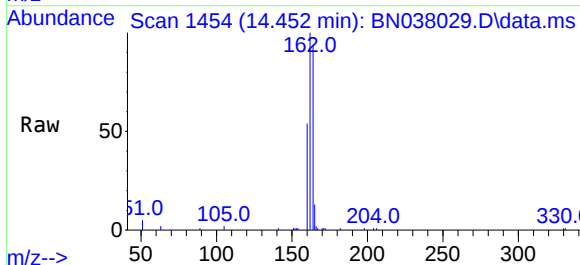
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-340-342

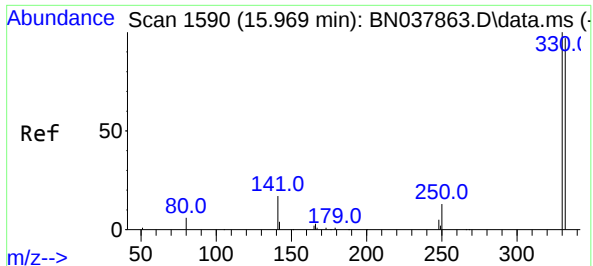
Tgt Ion:152 Resp: 9642
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.021 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

Tgt Ion:164 Resp: 12953
Ion Ratio Lower Upper
164 100
162 106.4 84.8 127.2
160 56.9 46.1 69.1

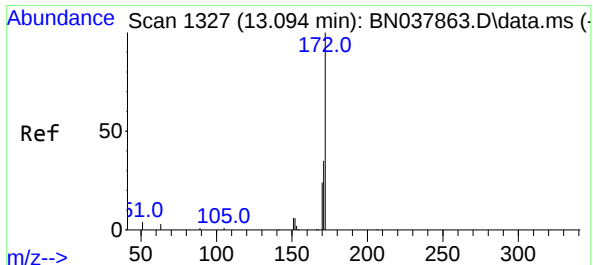
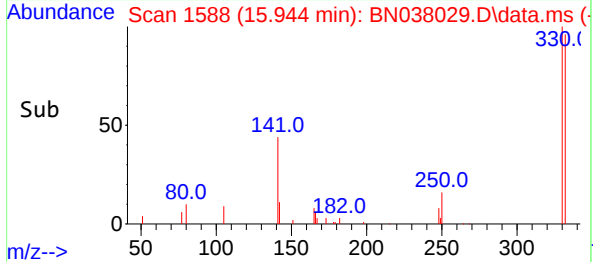
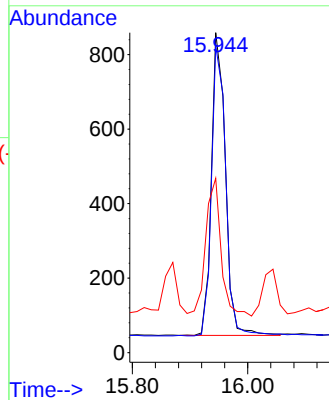
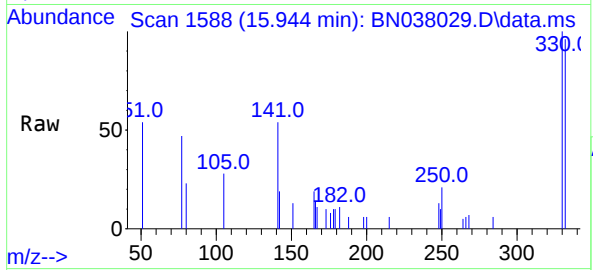




#14
2,4,6-Tribromophenol
Concen: 0.277 ng
RT: 15.944 min Scan# 1588
Delta R.T. -0.025 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

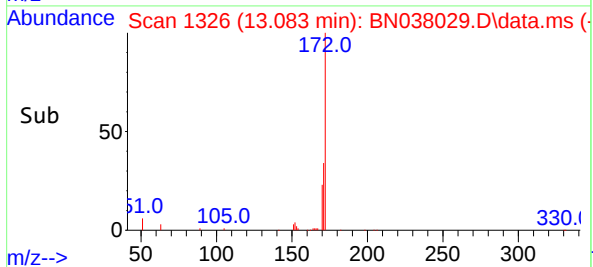
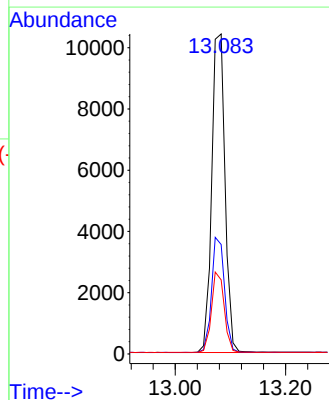
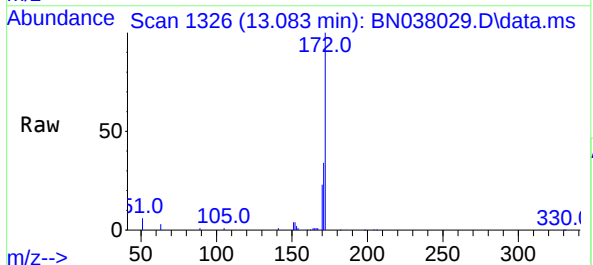
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-340-342

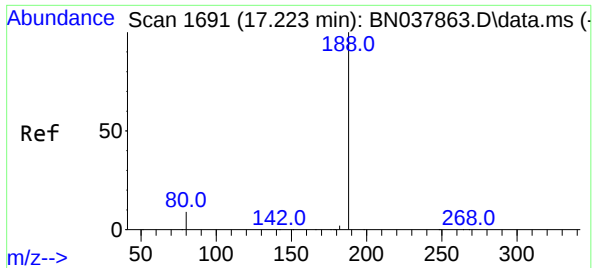
Tgt Ion:330 Resp: 1361
Ion Ratio Lower Upper
330 100
332 98.7 77.2 115.8
141 49.9 37.2 55.8



#15
2-Fluorobiphenyl
Concen: 0.330 ng
RT: 13.083 min Scan# 1326
Delta R.T. -0.011 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

Tgt Ion:172 Resp: 17483
Ion Ratio Lower Upper
172 100
171 34.2 28.6 43.0
170 23.2 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-340-342

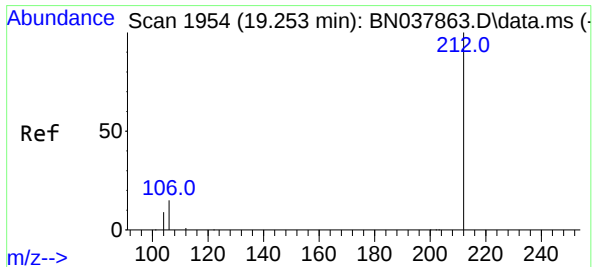
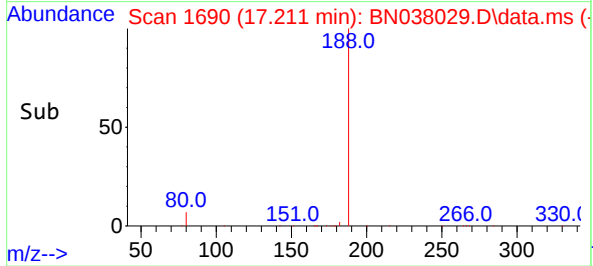
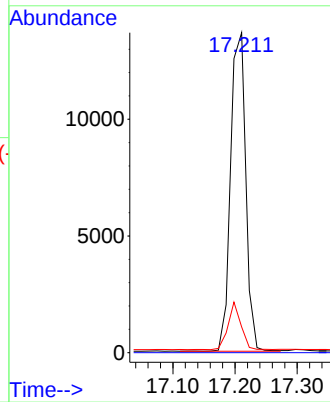
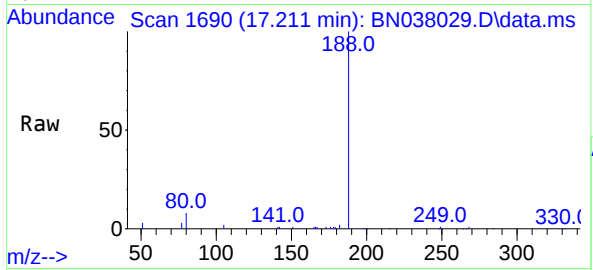
Tgt Ion:188 Resp: 23191

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 7.6 11.4



#27

Fluoranthene-d10

Concen: 0.325 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

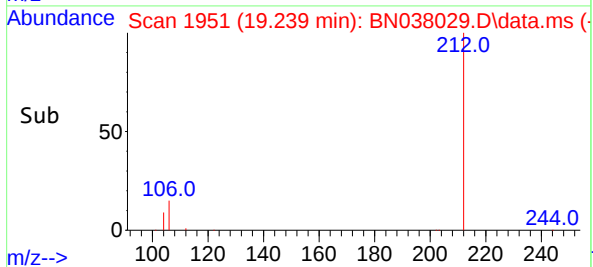
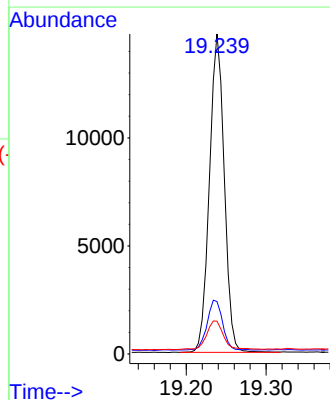
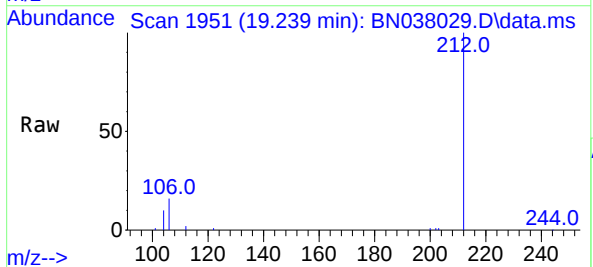
Tgt Ion:212 Resp: 18968

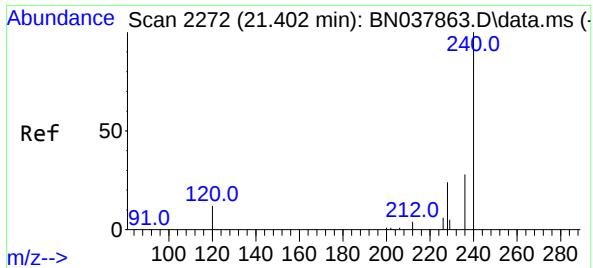
Ion Ratio Lower Upper

212 100

106 16.2 12.6 19.0

104 10.2 7.4 11.0

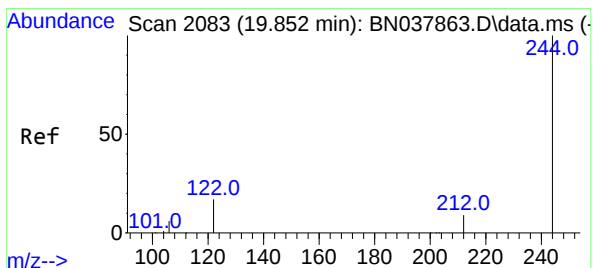
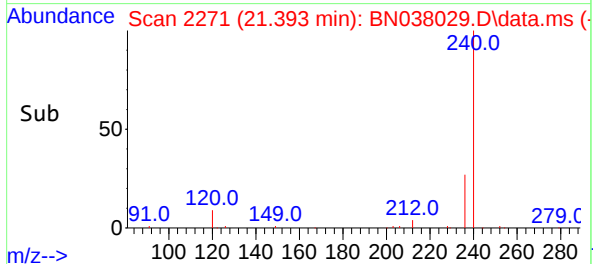
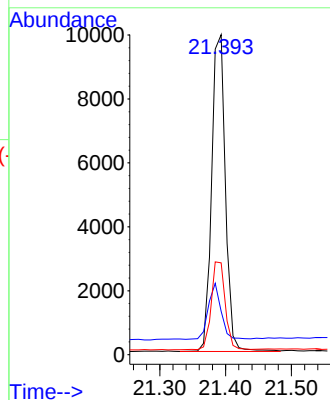
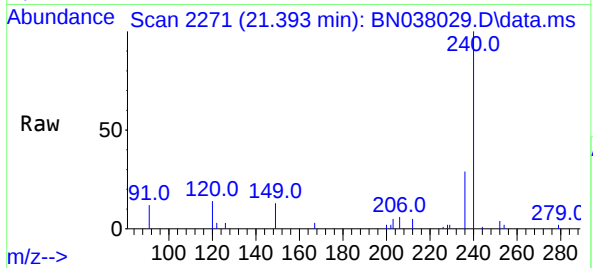




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

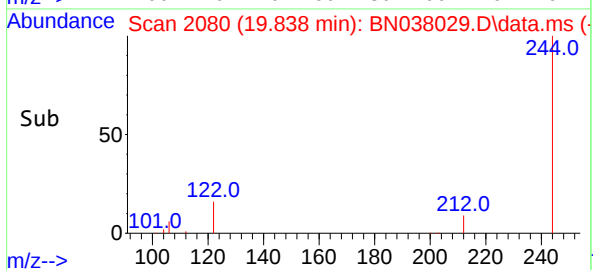
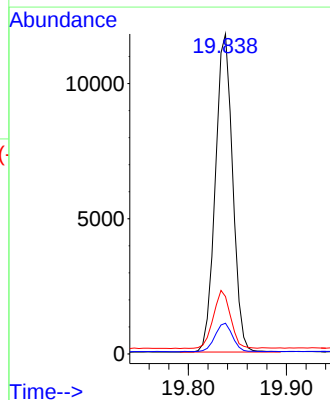
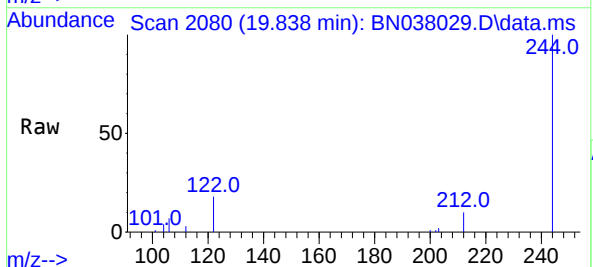
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-340-342

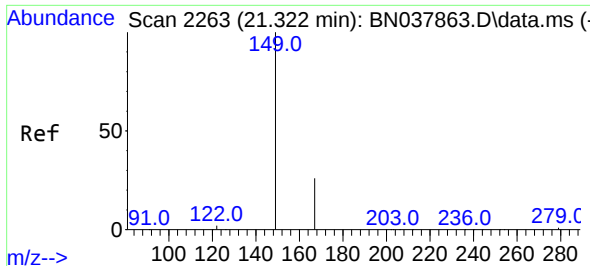
Tgt Ion:240 Resp: 14461
Ion Ratio Lower Upper
240 100
120 13.6 11.4 17.2
236 28.7 23.0 34.6



#31
Terphenyl-d14
Concen: 0.501 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

Tgt Ion:244 Resp: 14430
Ion Ratio Lower Upper
244 100
212 9.6 7.6 11.4
122 17.9 13.9 20.9

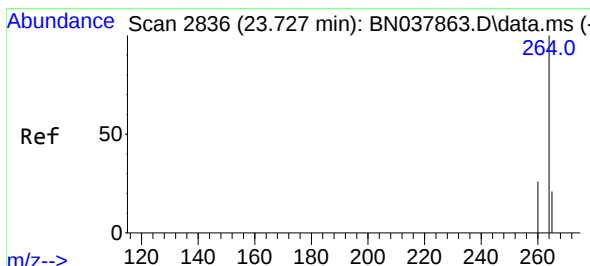
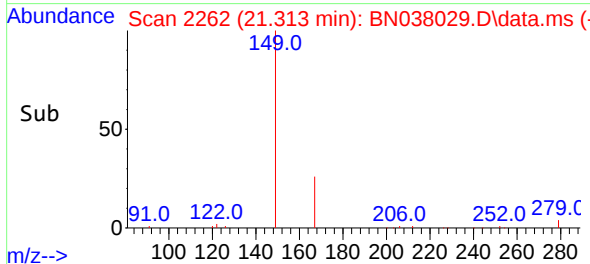
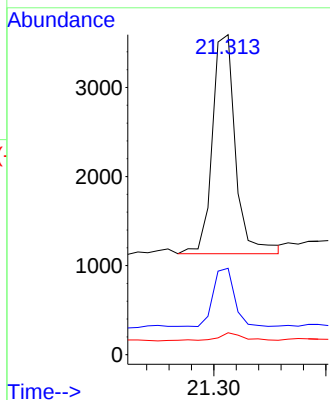
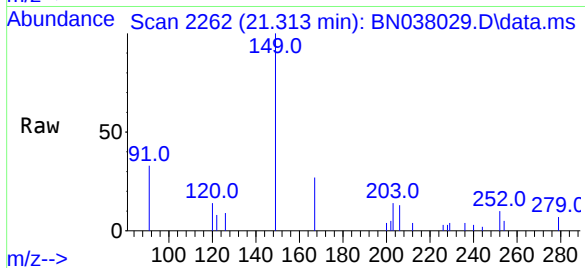




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.177 ng
RT: 21.313 min Scan# 2130
Delta R.T. -0.009 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

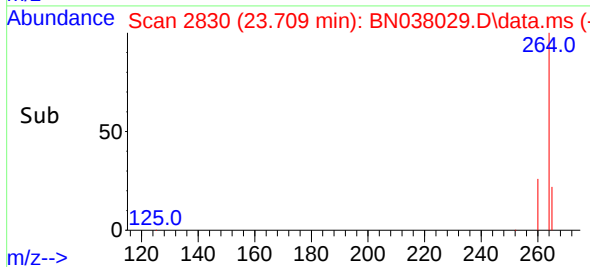
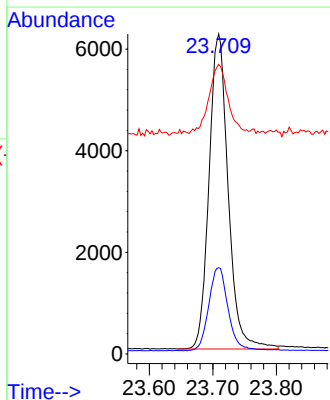
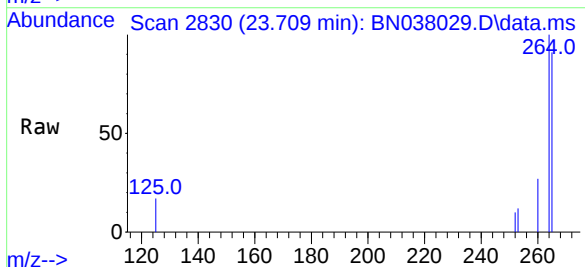
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-340-342

Tgt Ion:149 Resp: 3537
Ion Ratio Lower Upper
149 100
167 24.1 20.4 30.6
279 3.5 2.4 3.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.709 min Scan# 2830
Delta R.T. -0.018 min
Lab File: BN038029.D
Acq: 07 Oct 2025 03:46

Tgt Ion:264 Resp: 12966
Ion Ratio Lower Upper
264 100
260 27.0 21.5 32.3
265 90.5 53.8 80.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-GW-380-382	SDG No.:	Q3213
Lab Sample ID:	Q3213-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	590 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
BN038030.D	1	09/26/25 13:15	10/07/25 04:22	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.42		0.11	0.34	0.34	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	8870		7.804			
1146-65-2	Naphthalene-d8	26100		10.605			
15067-26-2	Acenaphthene-d10	14200		14.462			
1517-22-2	Phenanthrene-d10	28000		17.21			
1719-03-5	Chrysene-d12	20300		21.384			
1520-96-3	Perylene-d12	15100		23.709			

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\BN100625\
 Data File : BN038030.D
 Acq On : 07 Oct 2025 04:22
 Operator : RC/JU
 Sample : Q3213-05
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-184-GW-380-382

Quant Time: Oct 07 05:59:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

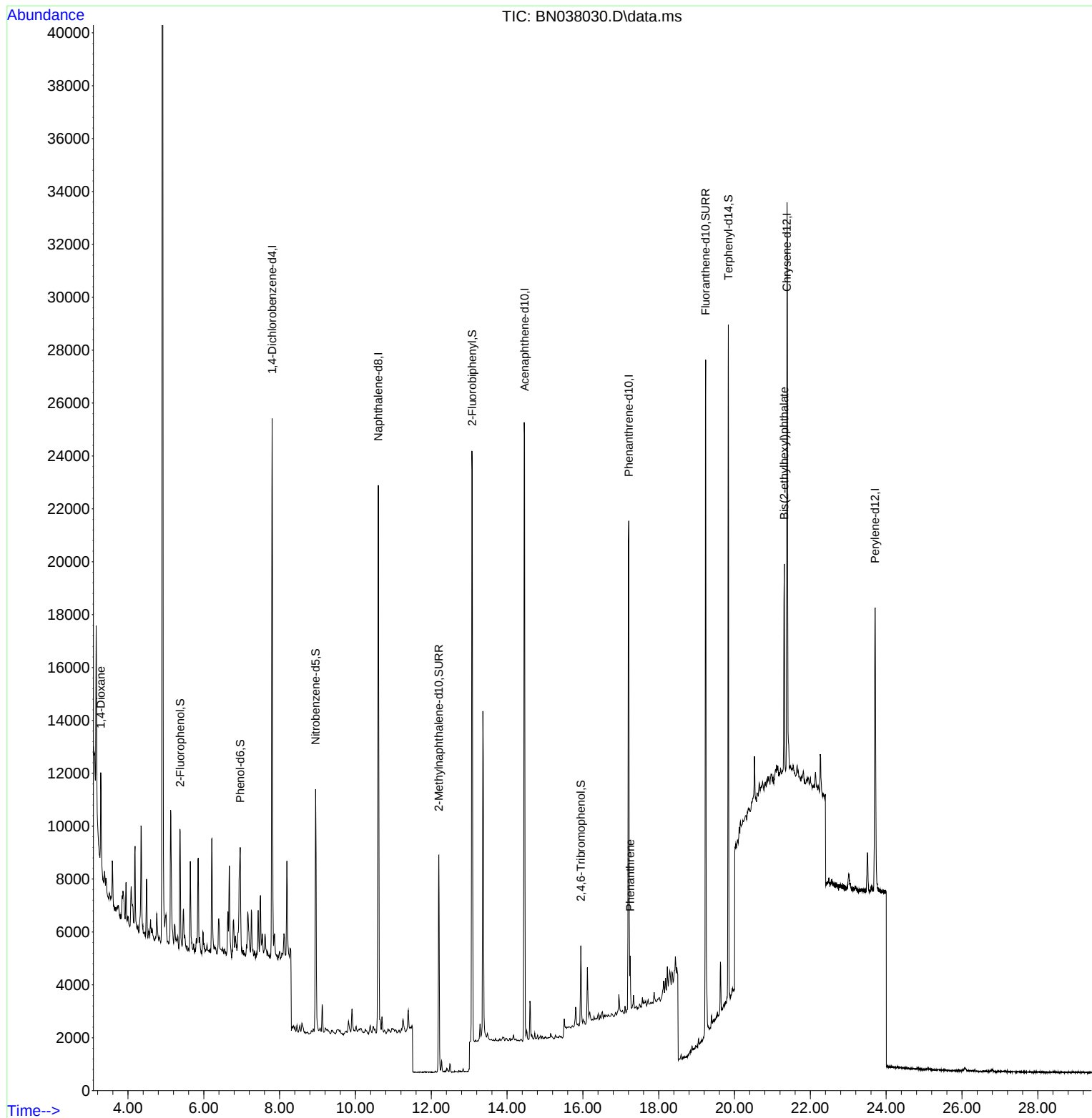
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	8865	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	26053	0.400	ng	-0.02
13) Acenaphthene-d10	14.462	164	14244	0.400	ng	-0.01
19) Phenanthrene-d10	17.210	188	27982	0.400	ng	#-0.01
29) Chrysene-d12	21.384	240	20322	0.400	ng	#-0.02
35) Perylene-d12	23.709	264	15136	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	3497	0.173	ng	0.00
5) Phenol-d6	6.959	99	3022	0.114	ng	-0.01
8) Nitrobenzene-d5	8.950	82	7146	0.360	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	11299	0.312	ng	-0.02
14) 2,4,6-Tribromophenol	15.944	330	1691	0.313	ng	-0.02
15) 2-Fluorobiphenyl	13.083	172	21093	0.362	ng	-0.01
27) Fluoranthene-d10	19.238	212	27297	0.388	ng	-0.01
31) Terphenyl-d14	19.838	244	23007	0.568	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.283	88	2236	0.248	ng	# 76
25) Phenanthrene	17.248	178	2186	0.024	ng	97
34) Bis(2-ethylhexyl)phtha...	21.313	149	7508	0.267	ng	96

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

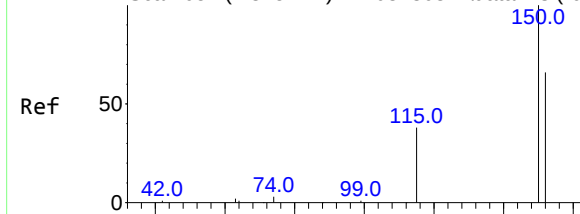
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038030.D
Acq On : 07 Oct 2025 04:22
Operator : RC/JU
Sample : Q3213-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-380-382

Quant Time: Oct 07 05:59:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64)



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

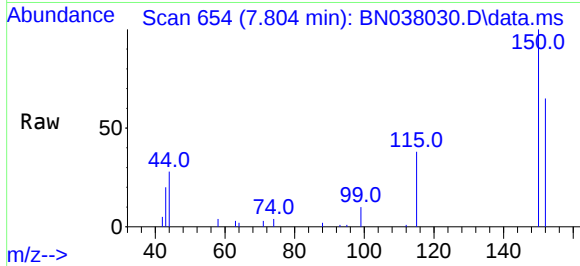
Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-380-382

Abundance Scan 654 (7.804 min): BN038030.D\data.ms



Tgt Ion:152 Resp: 8865

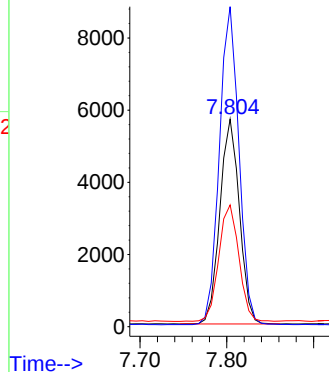
Ion Ratio Lower Upper

152 100

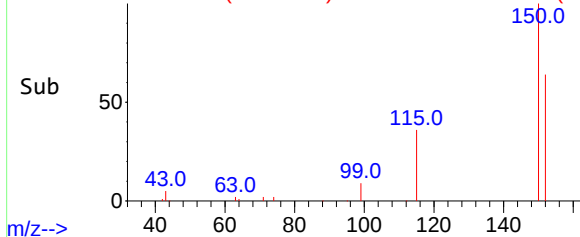
150 154.2 121.0 181.4

115 58.6 47.4 71.0

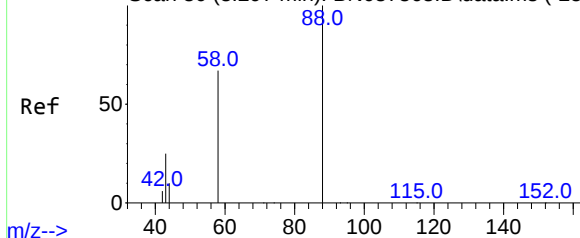
Abundance



Abundance Scan 654 (7.804 min): BN038030.D\data.ms (-62)



Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



#2

1,4-Dioxane

Concen: 0.248 ng

RT: 3.283 min Scan# 28

Delta R.T. -0.015 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Tgt Ion: 88 Resp: 2236

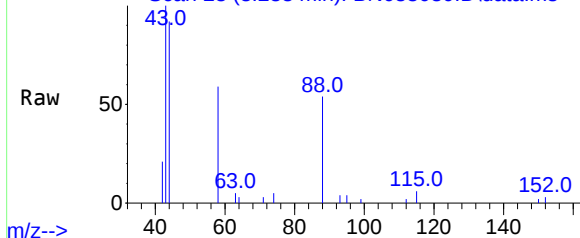
Ion Ratio Lower Upper

88 100

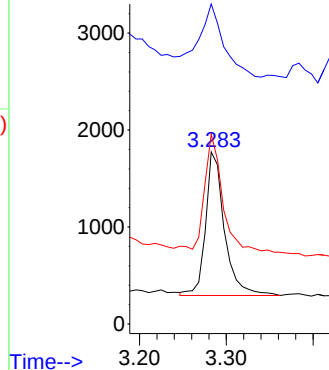
43 69.5 26.6 39.8#

58 78.1 58.9 88.3

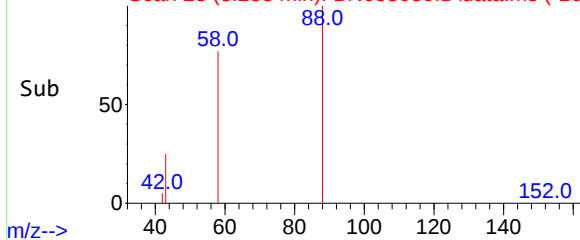
Abundance Scan 28 (3.283 min): BN038030.D\data.ms



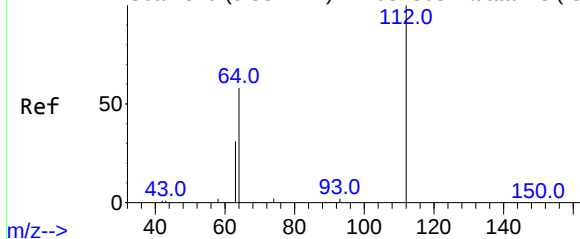
Abundance



Abundance Scan 28 (3.283 min): BN038030.D\data.ms (-16)

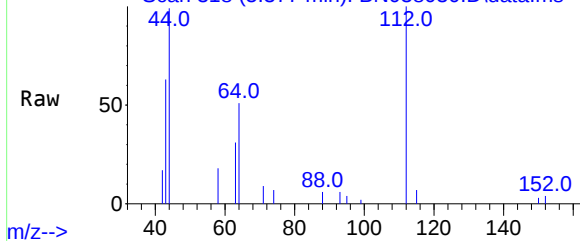


Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



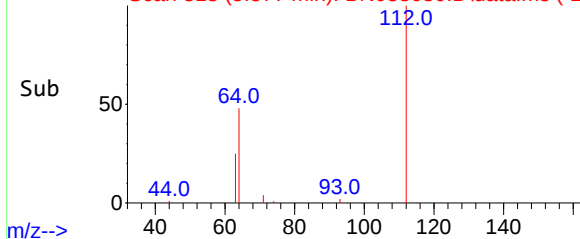
m/z-->

Abundance Scan 318 (5.377 min): BN038030.D\data.ms



m/z-->

Abundance Scan 318 (5.377 min): BN038030.D\data.ms (-29



m/z-->

#4

2-Fluorophenol

Concen: 0.173 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.007 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-380-382

Tgt Ion:112 Resp: 3497

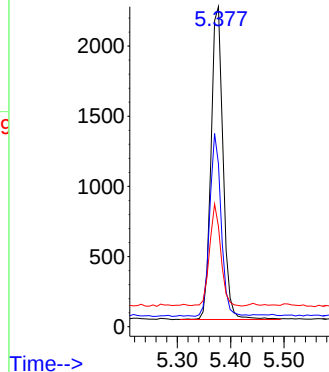
Ion Ratio Lower Upper

112 100

64 55.2 44.6 66.8

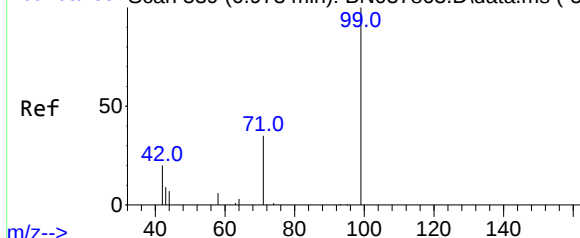
63 30.2 24.9 37.3

Abundance



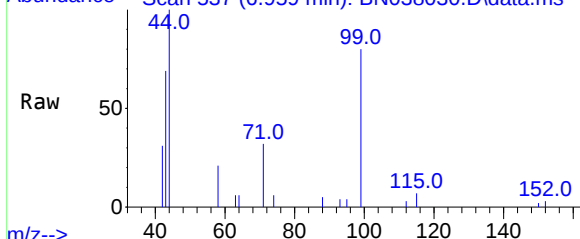
Time-->

Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



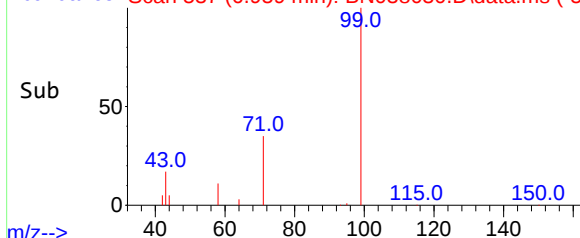
m/z-->

Abundance Scan 537 (6.959 min): BN038030.D\data.ms



m/z-->

Abundance Scan 537 (6.959 min): BN038030.D\data.ms (-51



m/z-->

#5

Phenol-d6

Concen: 0.114 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.015 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Tgt Ion: 99 Resp: 3022

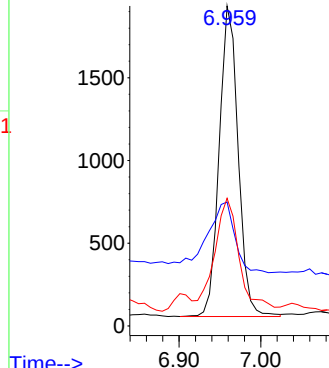
Ion Ratio Lower Upper

99 100

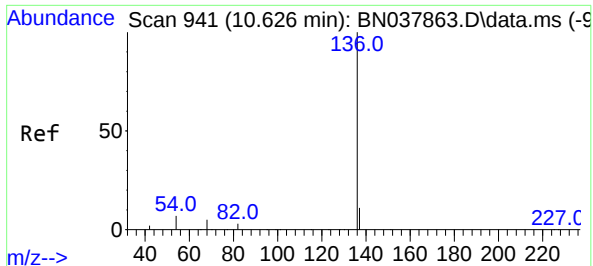
42 33.2 17.2 25.8#

71 46.1 27.3 40.9#

Abundance



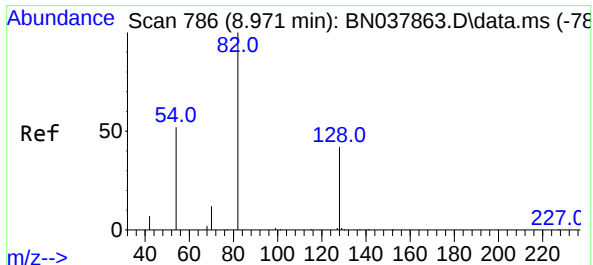
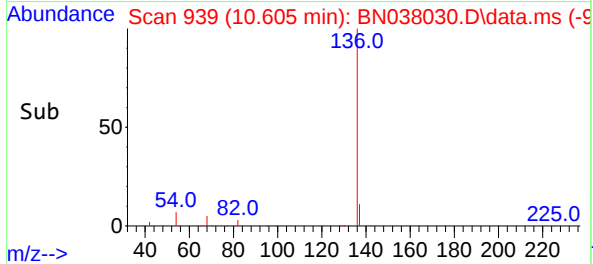
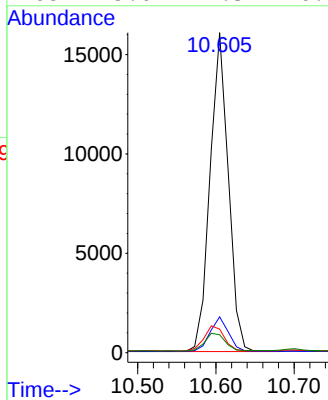
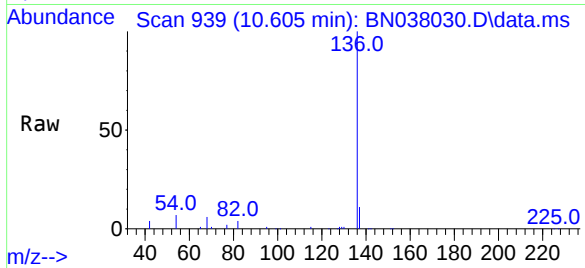
Time-->



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038030.D
Acq: 07 Oct 2025 04:22

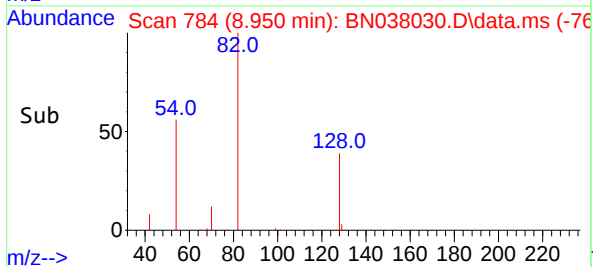
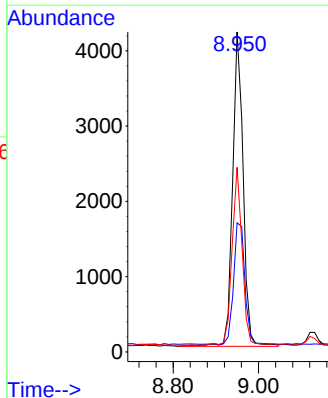
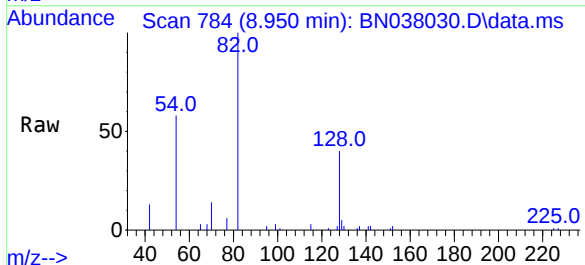
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-380-382

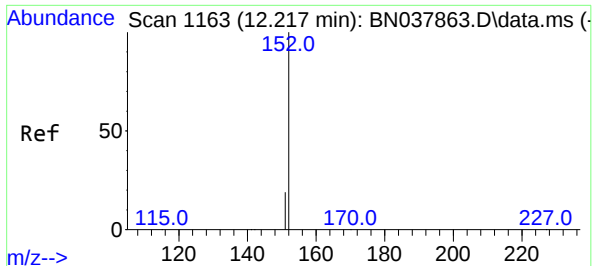
Tgt Ion:	136	Resp:	26053
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.3	5.8	8.8
68	5.6	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038030.D
Acq: 07 Oct 2025 04:22

Tgt Ion:	82	Resp:	7146
Ion	Ratio	Lower	Upper
82	100		
128	40.4	34.8	52.2
54	57.7	42.2	63.2

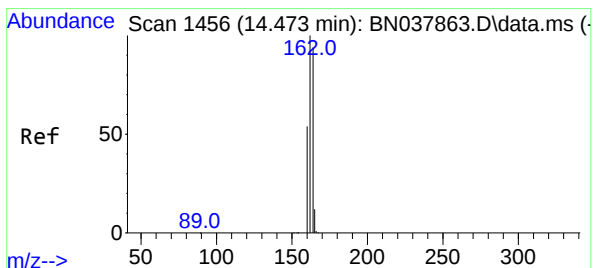
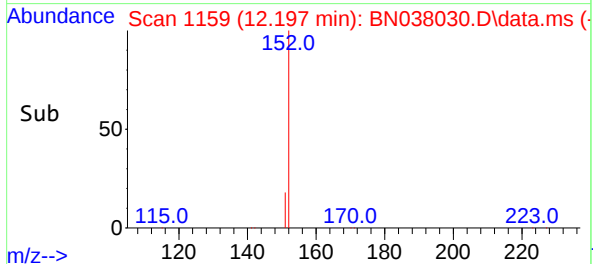
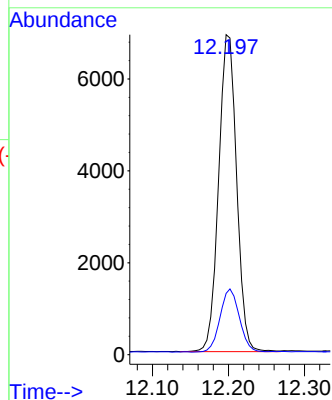
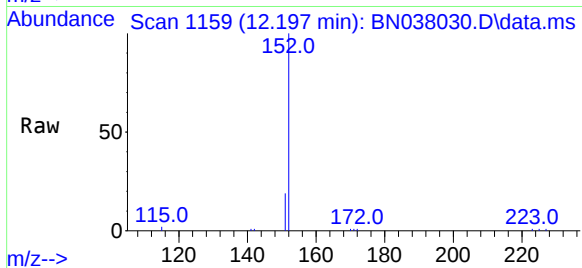




#11
2-Methylnaphthalene-d10
Concen: 0.312 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.020 min
Lab File: BN038030.D
Acq: 07 Oct 2025 04:22

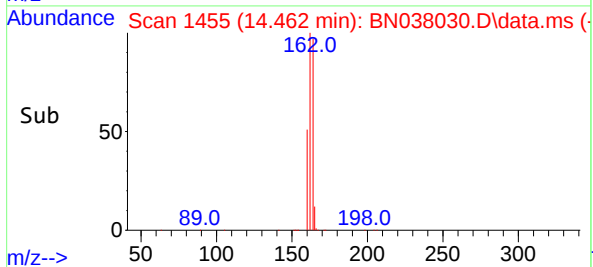
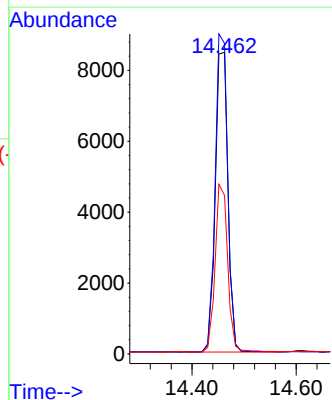
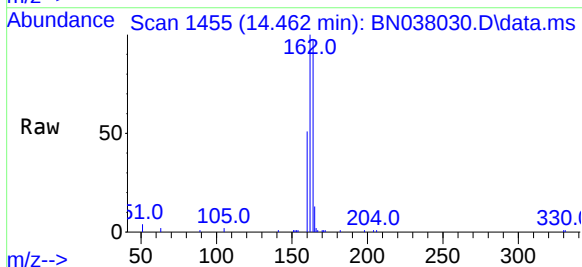
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-380-382

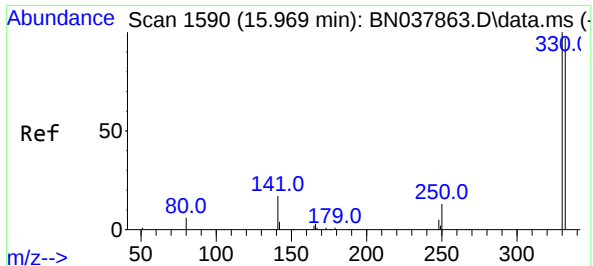
Tgt Ion:152 Resp: 11299
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1455
Delta R.T. -0.011 min
Lab File: BN038030.D
Acq: 07 Oct 2025 04:22

Tgt Ion:164 Resp: 14244
Ion Ratio Lower Upper
164 100
162 103.0 84.8 127.2
160 52.6 46.1 69.1





#14

2,4,6-Tribromophenol

Concen: 0.313 ng

RT: 15.944 min Scan# 11

Delta R.T. -0.025 min

Lab File: BN038030.D

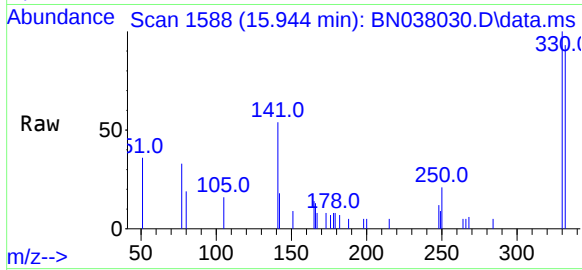
Acq: 07 Oct 2025 04:22

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-380-382



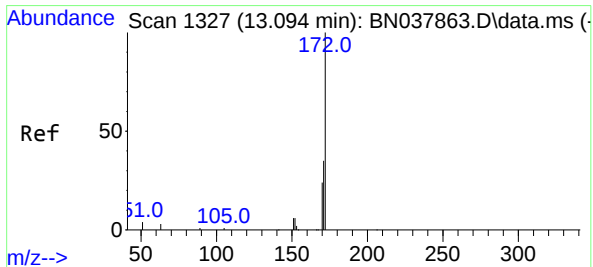
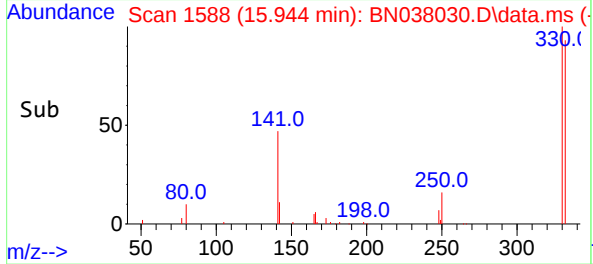
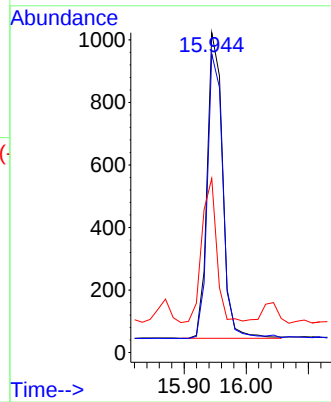
Tgt Ion:330 Resp: 1691

Ion Ratio Lower Upper

330 100

332 95.1 77.2 115.8

141 45.6 37.2 55.8



#15

2-Fluorobiphenyl

Concen: 0.362 ng

RT: 13.083 min Scan# 1326

Delta R.T. -0.011 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

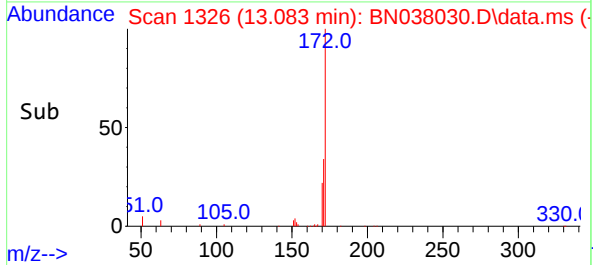
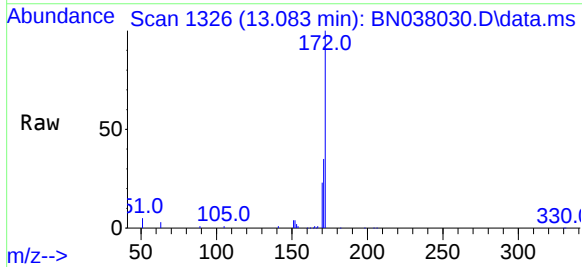
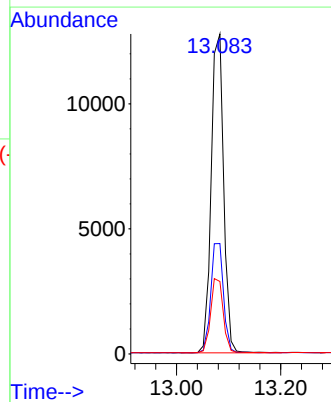
Tgt Ion:172 Resp: 21093

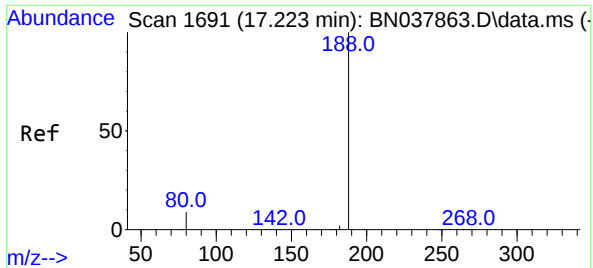
Ion Ratio Lower Upper

172 100

171 34.5 28.6 43.0

170 22.7 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1690

Delta R.T. -0.013 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-380-382

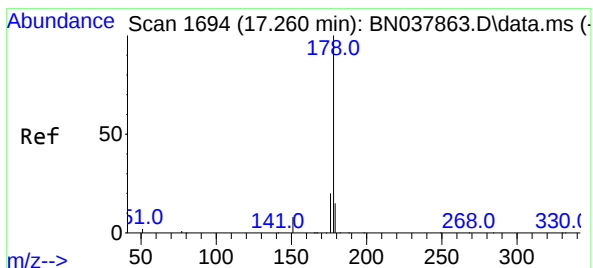
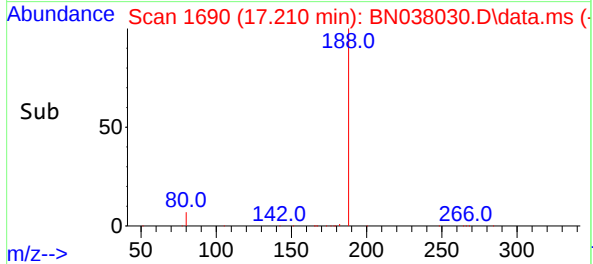
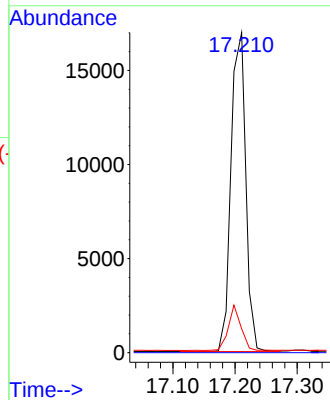
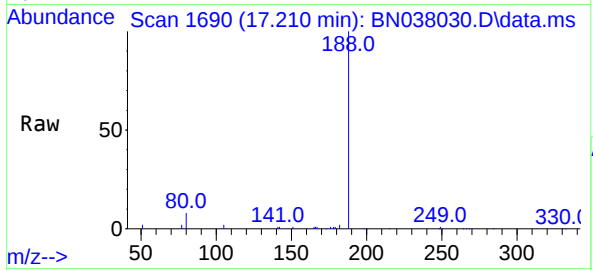
Tgt Ion:188 Resp: 27982

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 7.6 11.4#



#25

Phenanthrene

Concen: 0.024 ng

RT: 17.248 min Scan# 1693

Delta R.T. -0.013 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

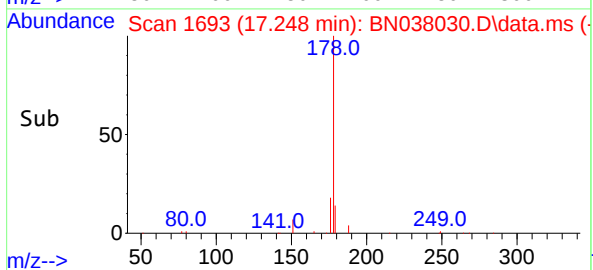
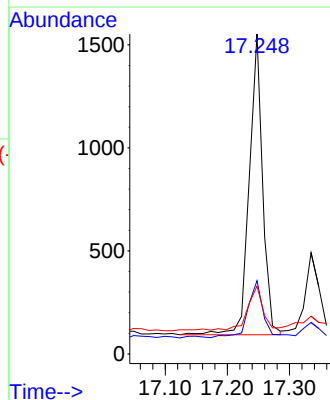
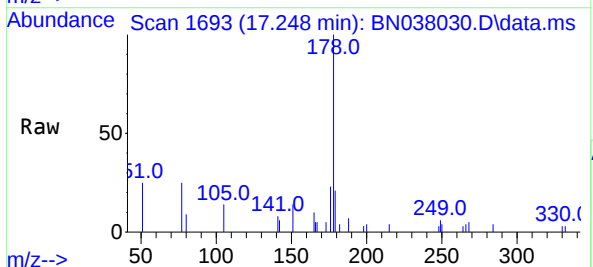
Tgt Ion:178 Resp: 2186

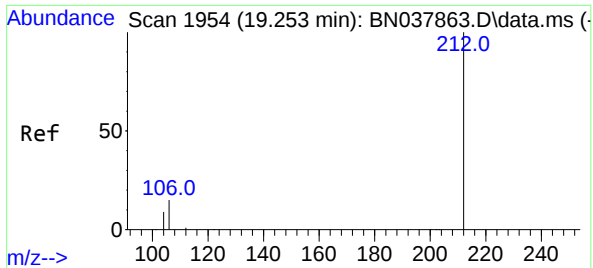
Ion Ratio Lower Upper

178 100

176 21.1 15.7 23.5

179 16.6 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.388 ng

RT: 19.238 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-380-382

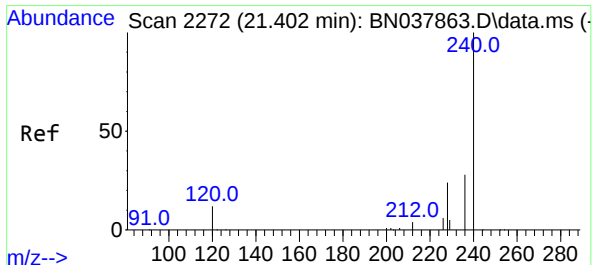
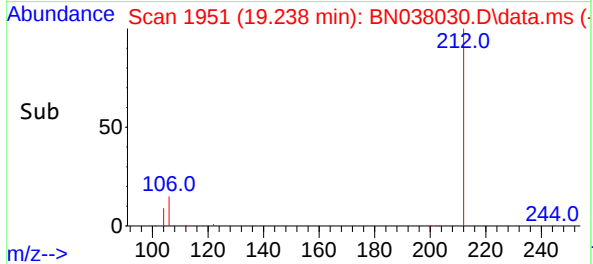
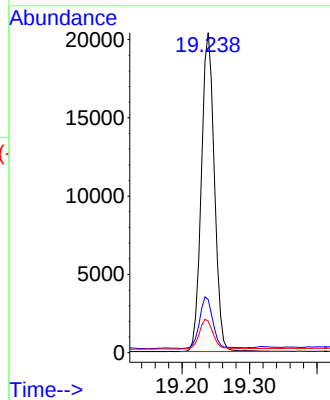
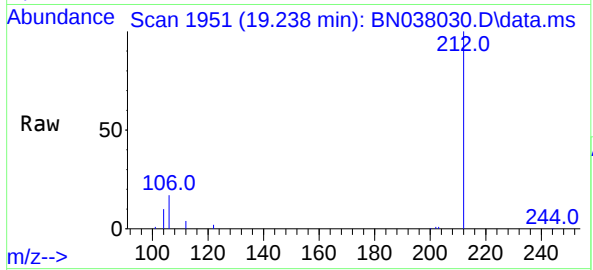
Tgt Ion:212 Resp: 27297

Ion Ratio Lower Upper

212 100

106 16.6 12.6 19.0

104 9.9 7.4 11.0



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 2270

Delta R.T. -0.018 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

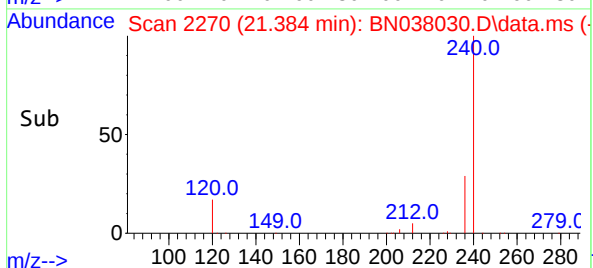
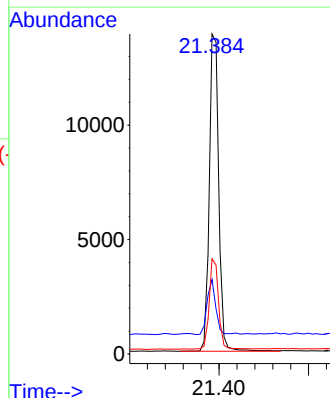
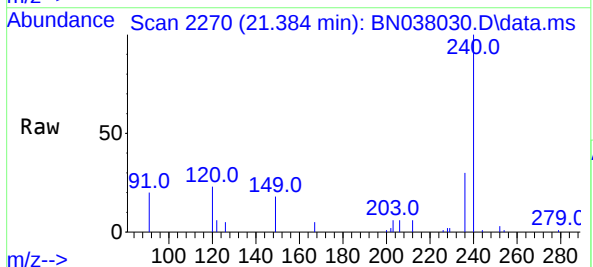
Tgt Ion:240 Resp: 20322

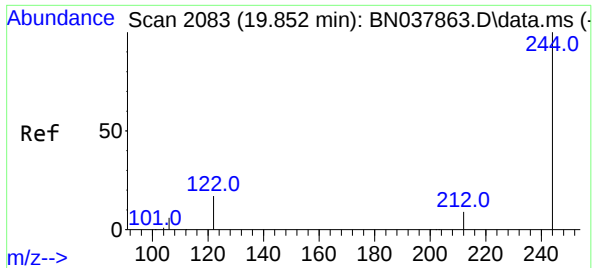
Ion Ratio Lower Upper

240 100

120 23.3 11.4 17.2

236 29.8 23.0 34.6

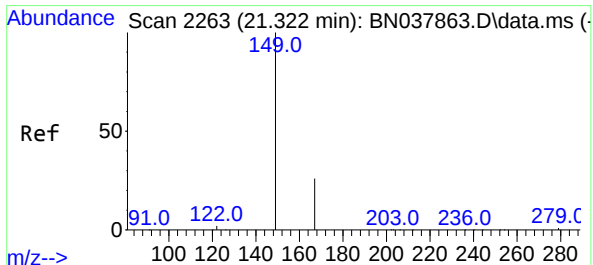
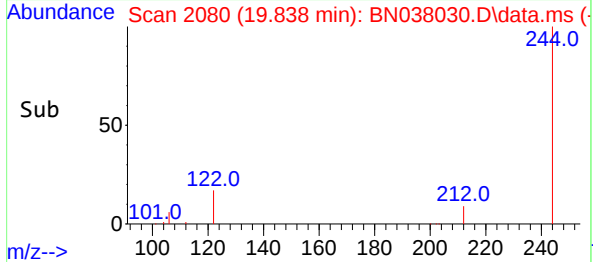
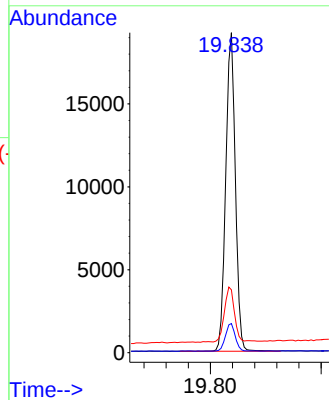
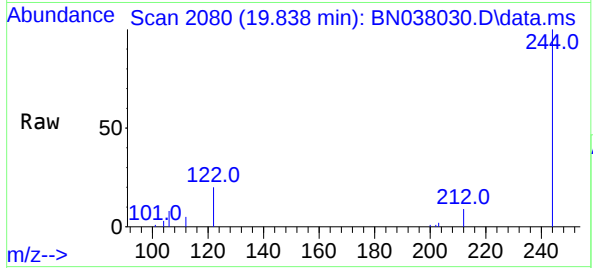




#31
Terphenyl-d14
Concen: 0.568 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038030.D
Acq: 07 Oct 2025 04:22

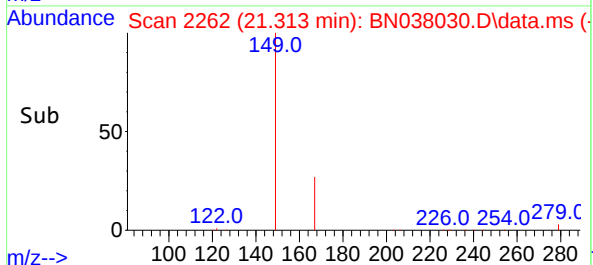
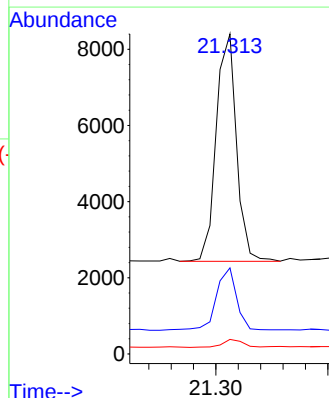
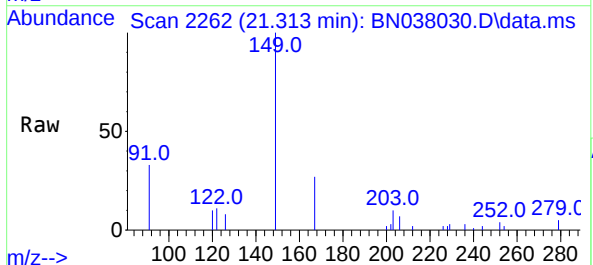
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-380-382

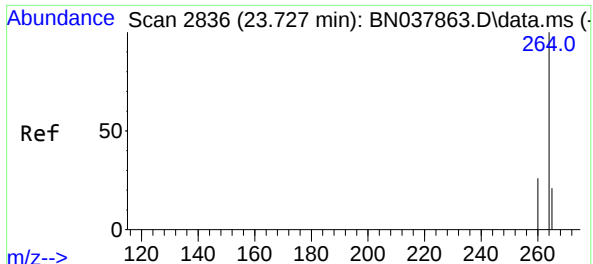
Tgt Ion:244 Resp: 23007
Ion Ratio Lower Upper
244 100
212 9.1 7.6 11.4
122 19.7 13.9 20.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.267 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.009 min
Lab File: BN038030.D
Acq: 07 Oct 2025 04:22

Tgt Ion:149 Resp: 7508
Ion Ratio Lower Upper
149 100
167 27.5 20.4 30.6
279 3.5 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.709 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038030.D

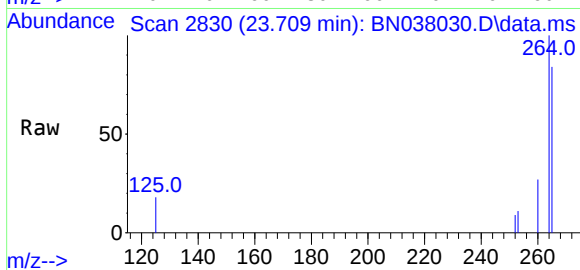
Acq: 07 Oct 2025 04:22

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-380-382



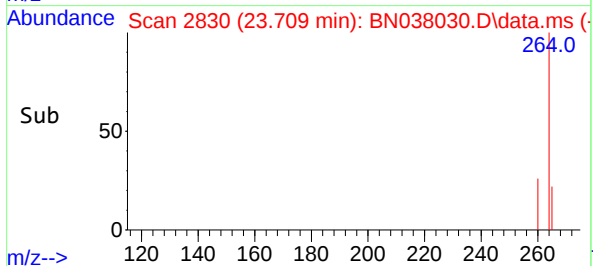
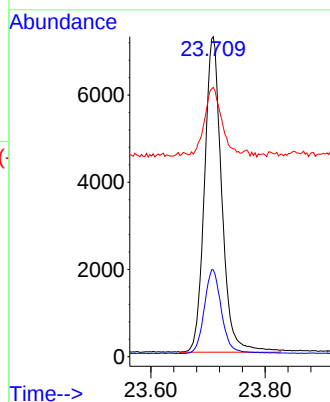
Tgt Ion:264 Resp: 15136

Ion Ratio Lower Upper

264 100

260 27.1 21.5 32.3

265 84.2 53.8 80.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-DUP-20250923	SDG No.:	Q3213
Lab Sample ID:	Q3213-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	510 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
BN038031.D	1	09/26/25 13:15	10/07/25 04:58	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.47		0.13	0.39	0.39	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		73%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		127%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	10000	7.804				
1146-65-2	Naphthalene-d8	28500	10.605				
15067-26-2	Acenaphthene-d10	13800	14.452				
1517-22-2	Phenanthrene-d10	22700	17.211				
1719-03-5	Chrysene-d12	16800	21.393				
1520-96-3	Perylene-d12	17600	23.706				

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\BN100625\
 Data File : BN038031.D
 Acq On : 07 Oct 2025 04:58
 Operator : RC/JU
 Sample : Q3213-06
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-184-DUP-20250923

Quant Time: Oct 07 05:59:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

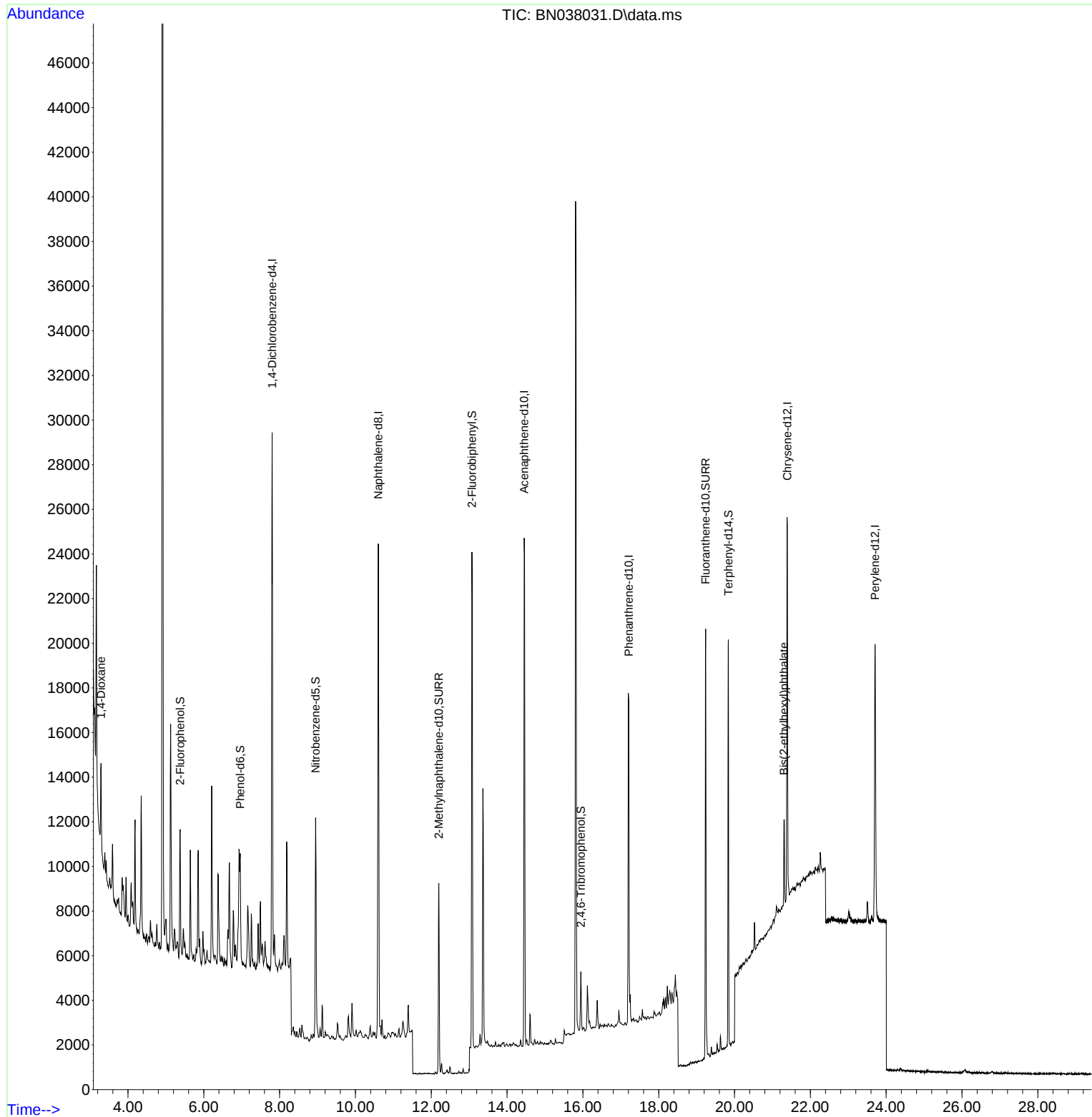
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	10013	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	28507	0.400	ng	-0.02
13) Acenaphthene-d10	14.452	164	13798	0.400	ng	-0.02
19) Phenanthrene-d10	17.211	188	22690	0.400	ng	#-0.01
29) Chrysene-d12	21.393	240	16816	0.400	ng	0.00
35) Perylene-d12	23.706	264	17577	0.400	ng	-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	4306	0.188	ng	0.00
5) Phenol-d6	6.959	99	3872	0.129	ng	-0.01
8) Nitrobenzene-d5	8.950	82	7607	0.350	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	11536	0.291	ng	-0.02
14) 2,4,6-Tribromophenol	15.945	330	1495	0.286	ng	-0.02
15) 2-Fluorobiphenyl	13.073	172	19350	0.343	ng	-0.02
27) Fluoranthene-d10	19.239	212	20428	0.358	ng	-0.01
31) Terphenyl-d14	19.838	244	16981	0.507	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.290	88	2457	0.242	ng	# 53
34) Bis(2-ethylhexyl)phtha...	21.304	149	4177	0.180	ng	# 99

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

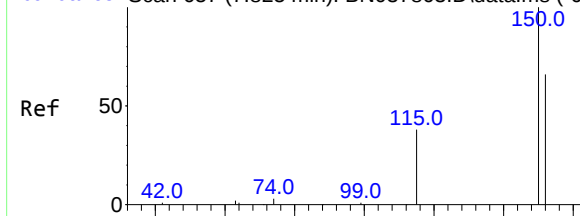
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038031.D
Acq On : 07 Oct 2025 04:58
Operator : RC/JU
Sample : Q3213-06
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-DUP-20250923

Quant Time: Oct 07 05:59:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

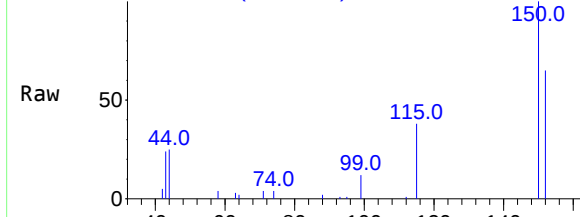


Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64)



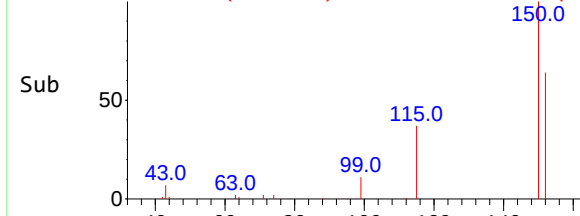
m/z-->

Abundance Scan 654 (7.804 min): BN038031.D\data.ms



m/z-->

Abundance Scan 654 (7.804 min): BN038031.D\data.ms (-62)



m/z-->

#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-DUP-20250923

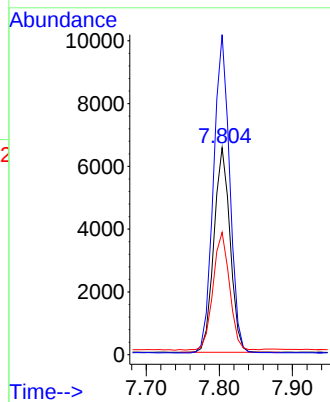
Tgt Ion:152 Resp: 10013

Ion Ratio Lower Upper

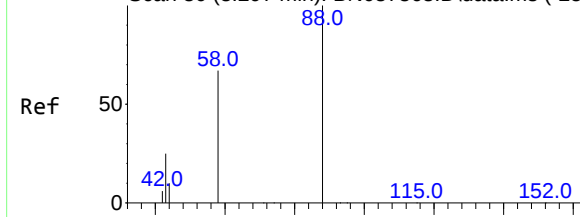
152 100

150 154.6 121.0 181.4

115 59.1 47.4 71.0

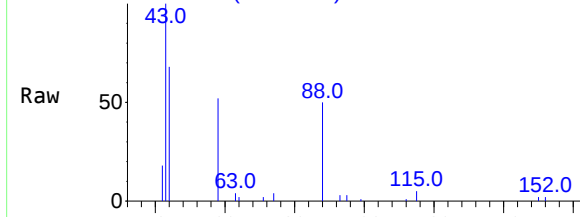


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



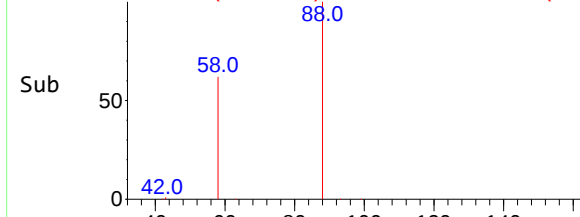
m/z-->

Abundance Scan 29 (3.290 min): BN038031.D\data.ms



m/z-->

Abundance Scan 29 (3.290 min): BN038031.D\data.ms (-16)



m/z-->

#2

1,4-Dioxane

Concen: 0.242 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

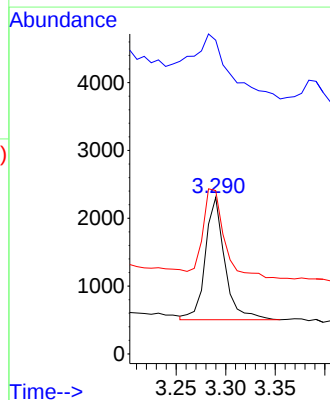
Tgt Ion: 88 Resp: 2457

Ion Ratio Lower Upper

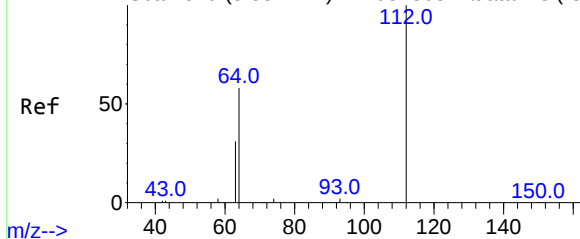
88 100

43 108.8 26.6 39.8

58 80.7 58.9 88.3



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.188 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.007 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-DUP-20250923

Tgt Ion:112 Resp: 4306

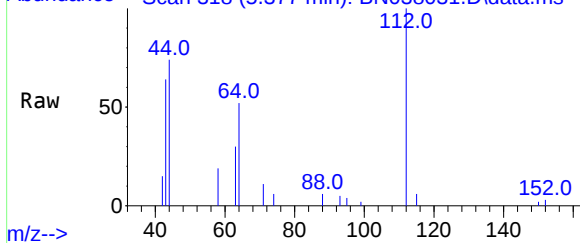
Ion Ratio Lower Upper

112 100

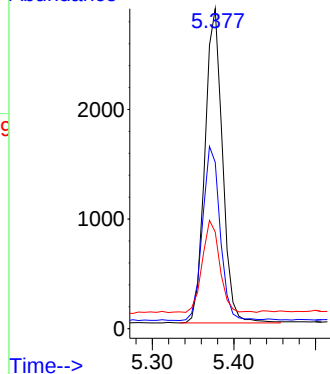
64 55.6 44.6 66.8

63 28.6 24.9 37.3

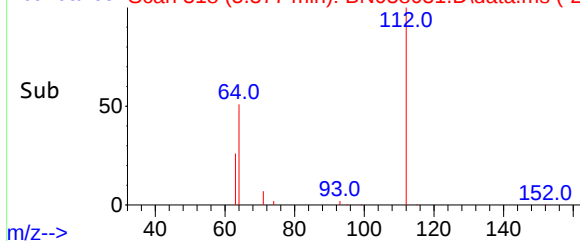
Abundance Scan 318 (5.377 min): BN038031.D\data.ms



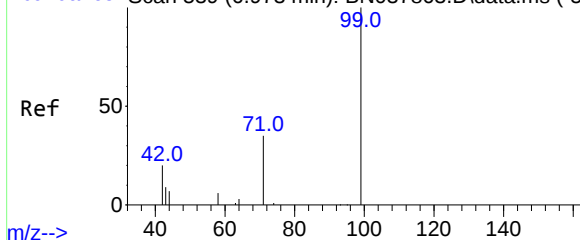
Abundance



Abundance Scan 318 (5.377 min): BN038031.D\data.ms (-29



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



#5

Phenol-d6

Concen: 0.129 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.014 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Tgt Ion: 99 Resp: 3872

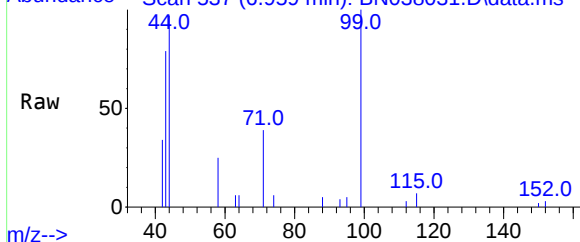
Ion Ratio Lower Upper

99 100

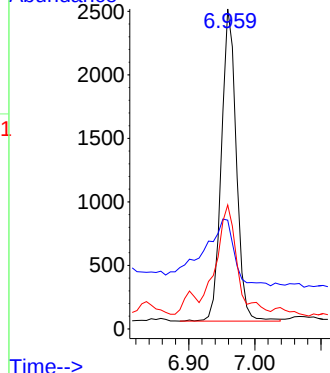
42 45.0 17.2 25.8#

71 49.6 27.3 40.9#

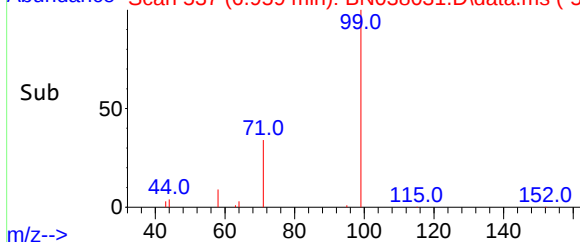
Abundance Scan 537 (6.959 min): BN038031.D\data.ms

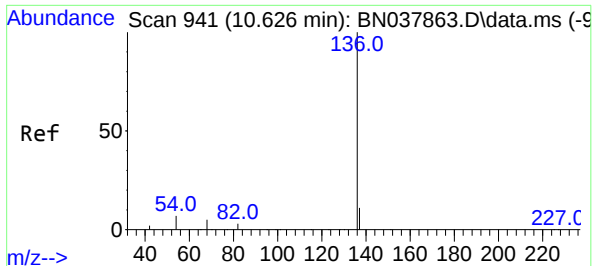


Abundance



Abundance Scan 537 (6.959 min): BN038031.D\data.ms (-51

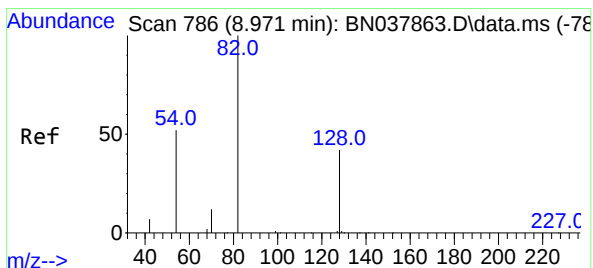
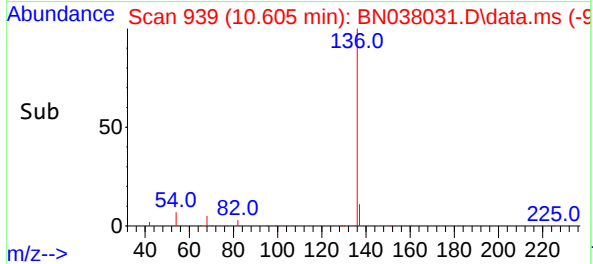
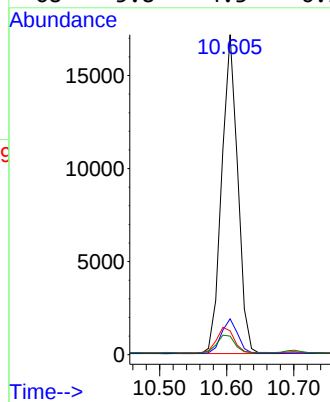
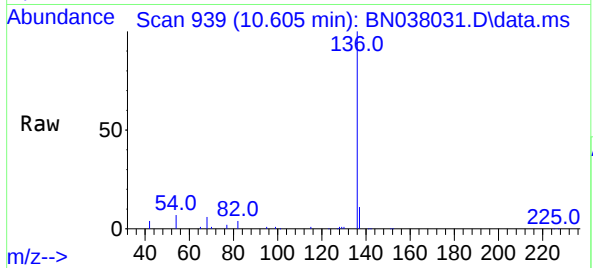




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

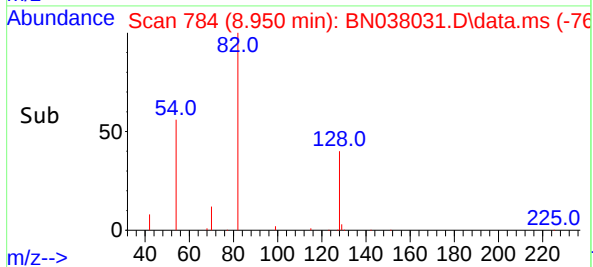
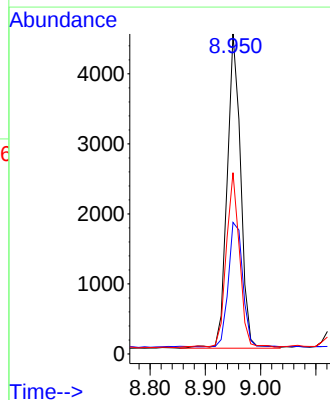
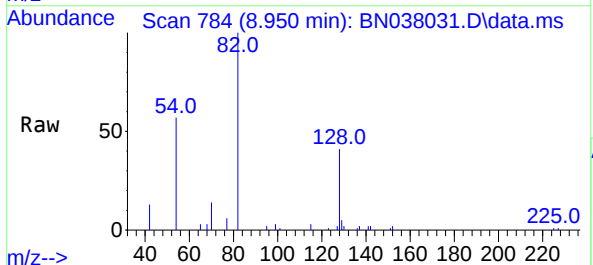
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-DUP-20250923

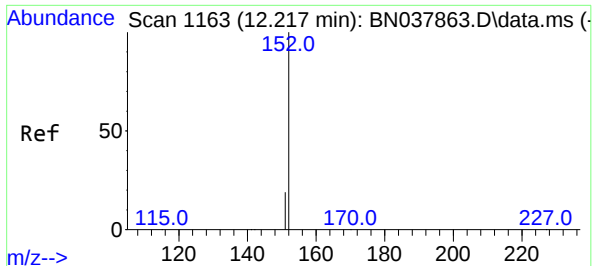
Tgt Ion:136 Resp: 28507
Ion Ratio Lower Upper
136 100
137 11.2 9.0 13.4
54 7.5 5.8 8.8
68 5.8 4.3 6.5



#8
Nitrobenzene-d5
Concen: 0.350 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

Tgt Ion: 82 Resp: 7607
Ion Ratio Lower Upper
82 100
128 41.1 34.8 52.2
54 56.6 42.2 63.2

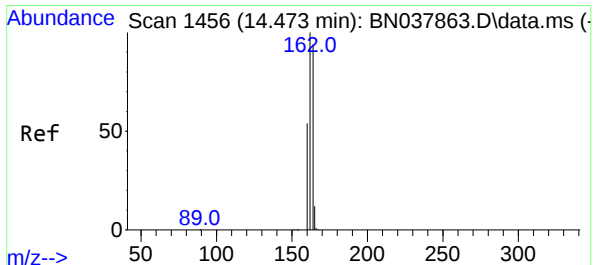
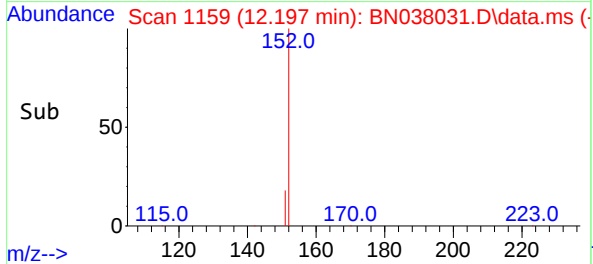
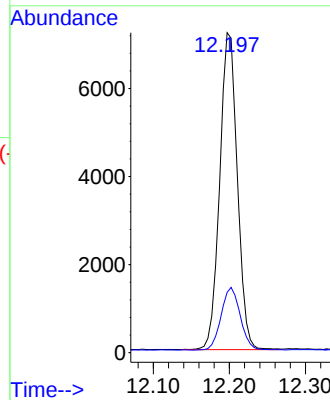
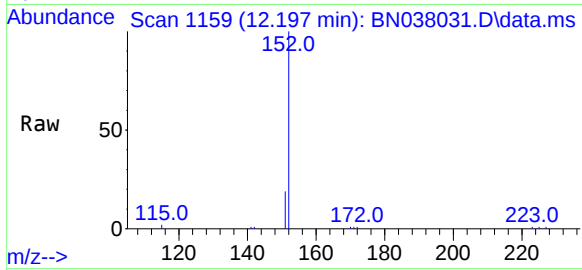




#11
2-Methylnaphthalene-d10
Concen: 0.291 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.020 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

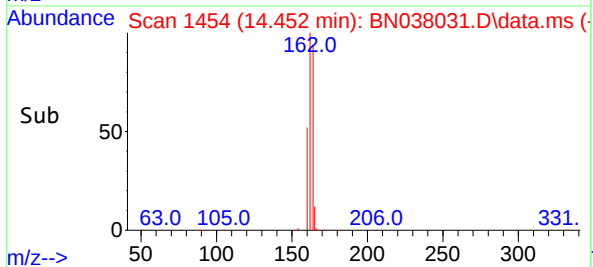
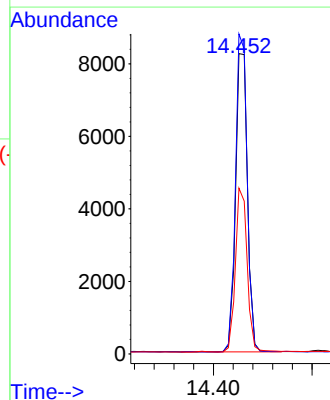
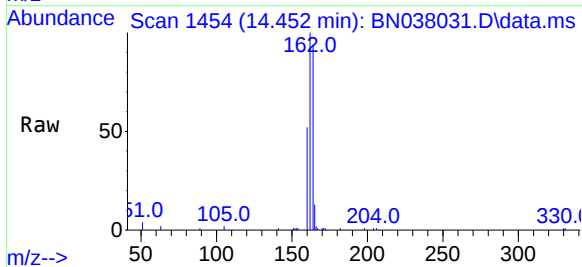
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-DUP-20250923

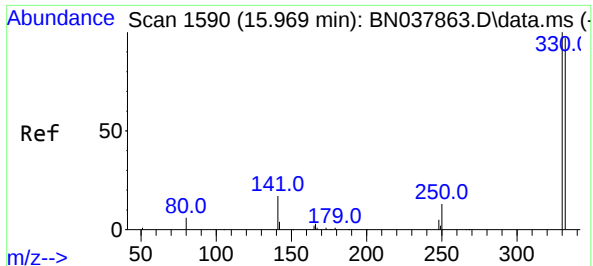
Tgt Ion:152 Resp: 11536
Ion Ratio Lower Upper
152 100
151 21.5 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.021 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

Tgt Ion:164 Resp: 13798
Ion Ratio Lower Upper
164 100
162 106.6 84.8 127.2
160 55.2 46.1 69.1

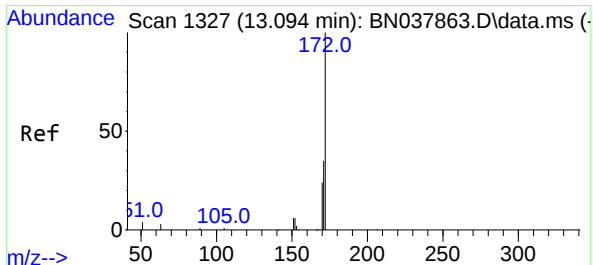
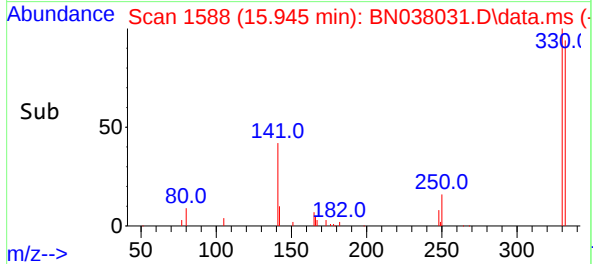
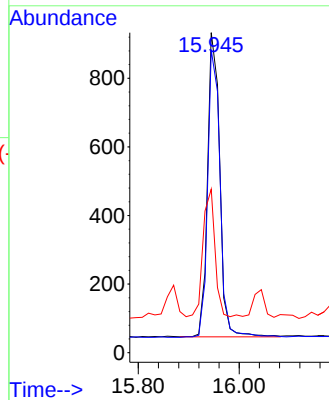
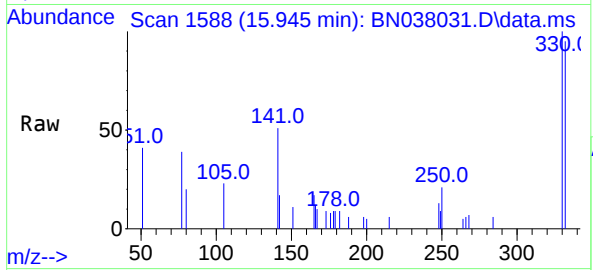




#14
2,4,6-Tribromophenol
Concen: 0.286 ng
RT: 15.945 min Scan# 11
Delta R.T. -0.024 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

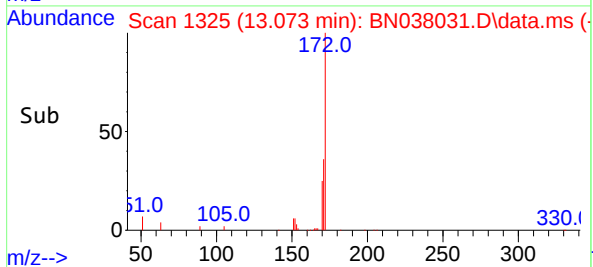
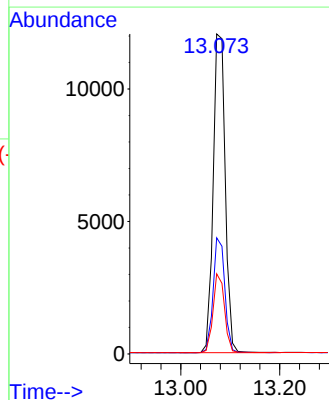
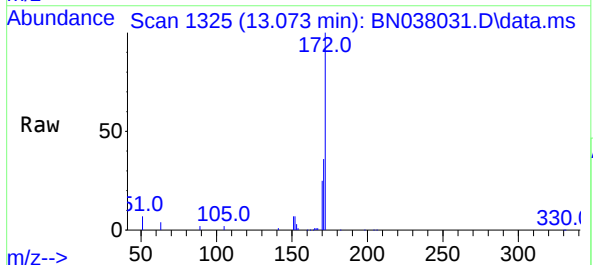
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-DUP-20250923

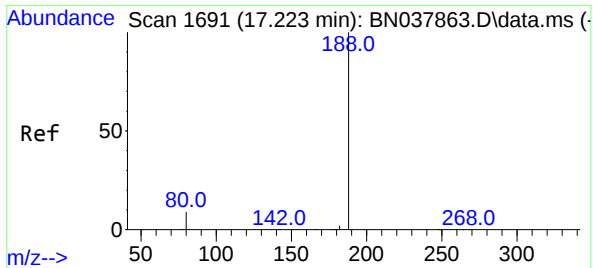
Tgt Ion:330 Resp: 1495
Ion Ratio Lower Upper
330 100
332 96.2 77.2 115.8
141 40.7 37.2 55.8



#15
2-Fluorobiphenyl
Concen: 0.343 ng
RT: 13.073 min Scan# 1325
Delta R.T. -0.021 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

Tgt Ion:172 Resp: 19350
Ion Ratio Lower Upper
172 100
171 36.3 28.6 43.0
170 25.1 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-DUP-20250923

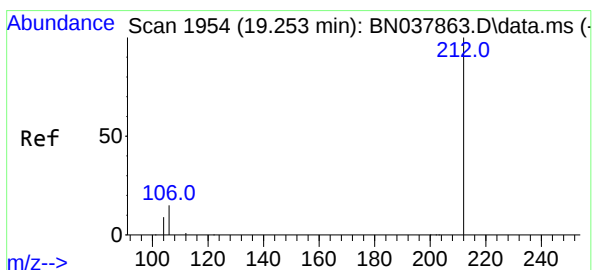
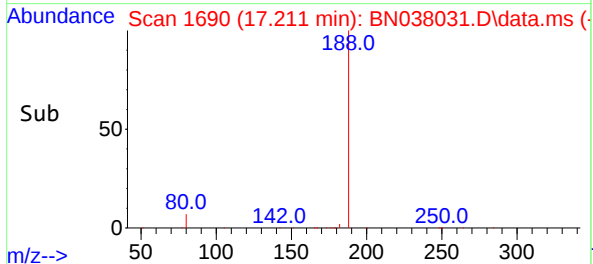
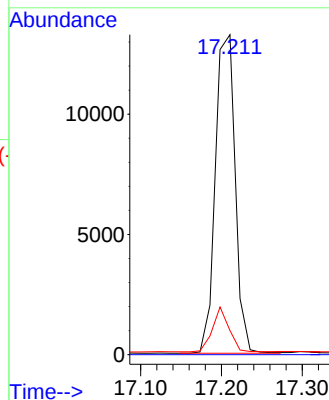
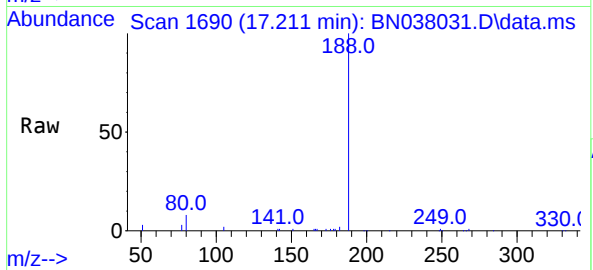
Tgt Ion:188 Resp: 22690

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.6 7.6 11.4#



#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

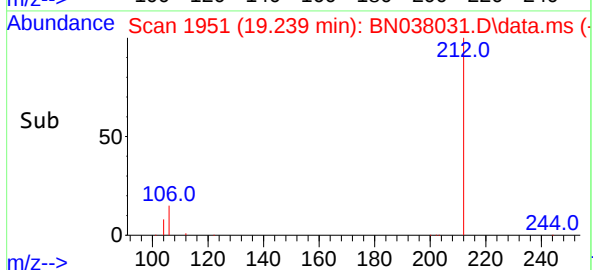
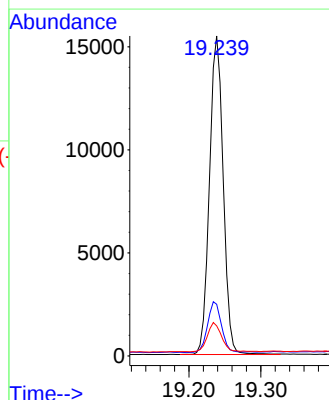
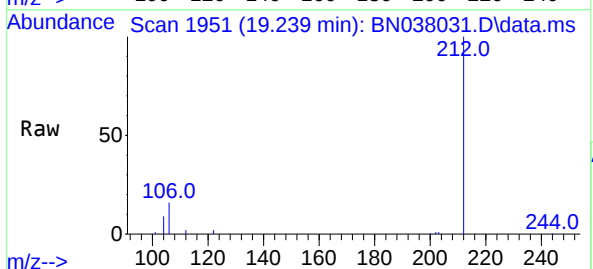
Tgt Ion:212 Resp: 20428

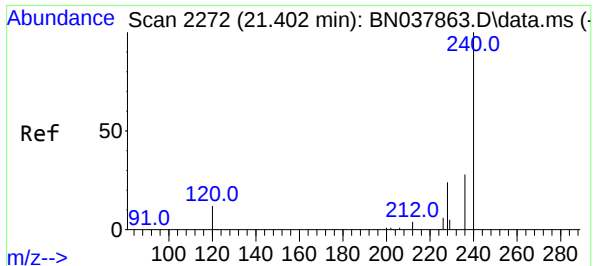
Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.7 7.4 11.0

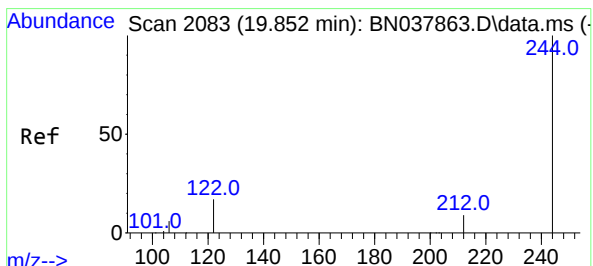
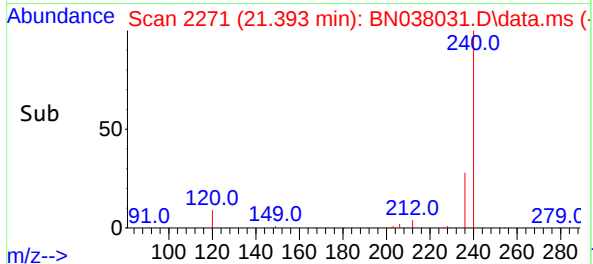
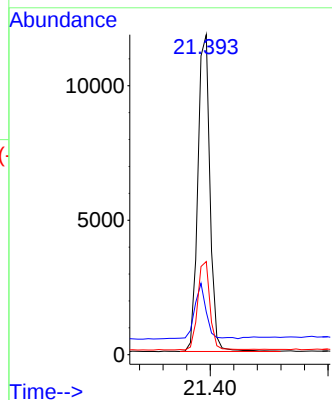
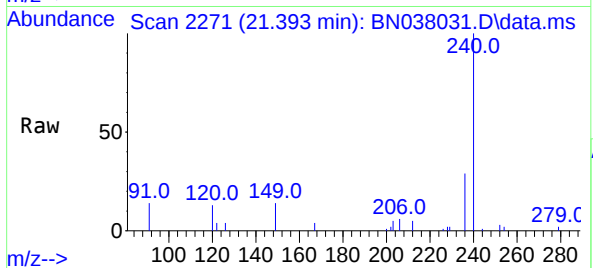




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

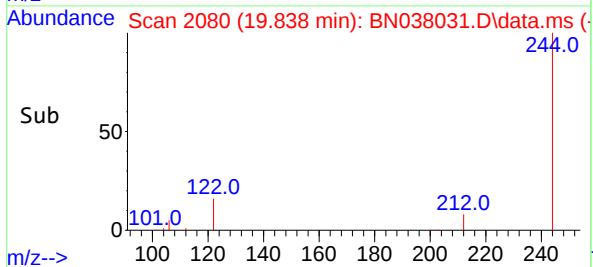
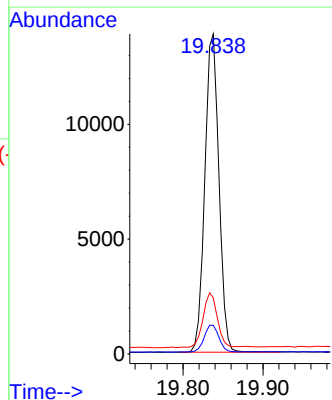
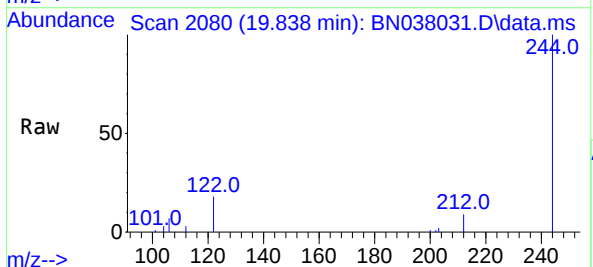
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-DUP-20250923

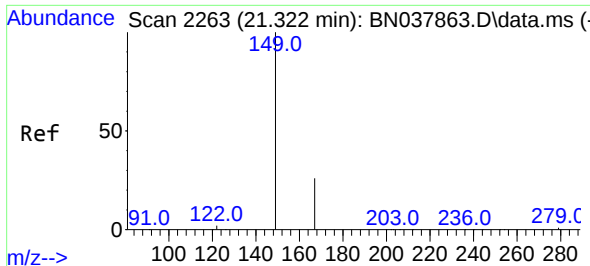
Tgt Ion:240 Resp: 16816
Ion Ratio Lower Upper
240 100
120 13.3 11.4 17.2
236 29.1 23.0 34.6



#31
Terphenyl-d14
Concen: 0.507 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

Tgt Ion:244 Resp: 16981
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 17.5 13.9 20.9

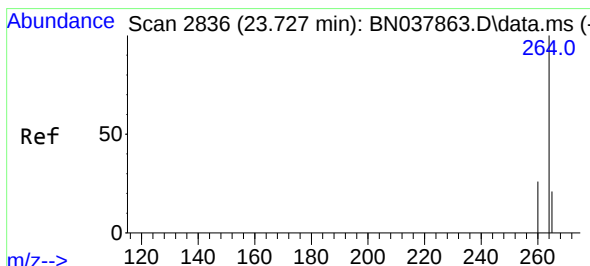
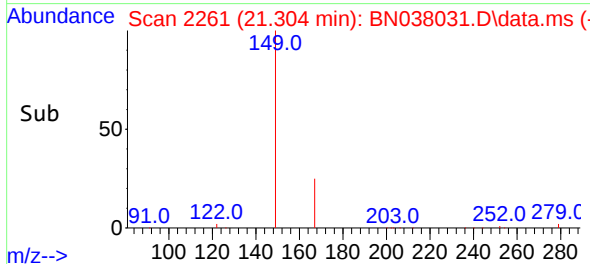
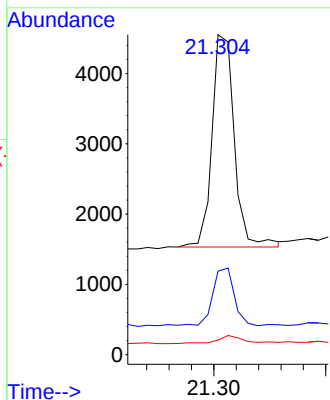
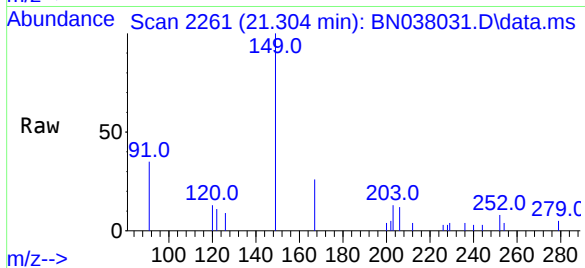




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.180 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

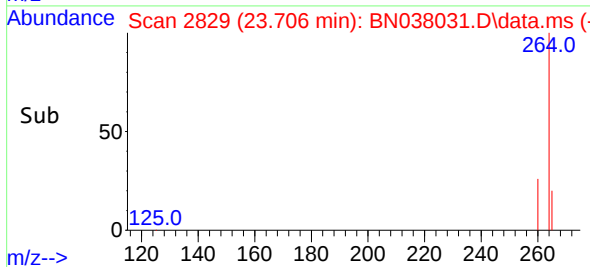
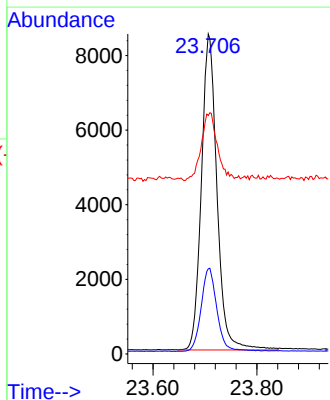
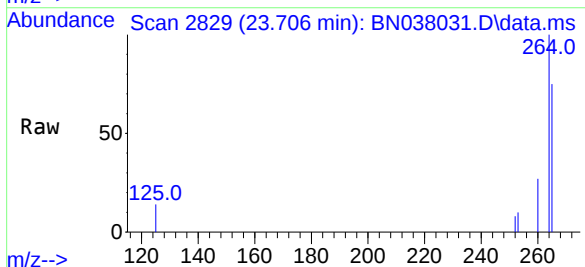
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-DUP-20250923

Tgt Ion:149 Resp: 4177
Ion Ratio Lower Upper
149 100
167 25.7 20.4 30.6
279 4.8 2.4 3.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.706 min Scan# 2829
Delta R.T. -0.020 min
Lab File: BN038031.D
Acq: 07 Oct 2025 04:58

Tgt Ion:264 Resp: 17577
Ion Ratio Lower Upper
264 100
260 26.6 21.5 32.3
265 74.5 53.8 80.6



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/24/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-GW-420-422	SDG No.:	Q3213
Lab Sample ID:	Q3213-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 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
BN038032.D	1	09/26/25 13:15	10/07/25 05:34	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.61	*	58 - 132		151%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9240		7.804			
1146-65-2	Naphthalene-d8	27700		10.605			
15067-26-2	Acenaphthene-d10	15500		14.452			
1517-22-2	Phenanthrene-d10	29700		17.198			
1719-03-5	Chrysene-d12	18000		21.384			
1520-96-3	Perylene-d12	14000		23.704			

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\BN100625\
 Data File : BN038032.D
 Acq On : 07 Oct 2025 05:34
 Operator : RC/JU
 Sample : Q3213-08
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-184-GW-420-422

Quant Time: Oct 07 06:00:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

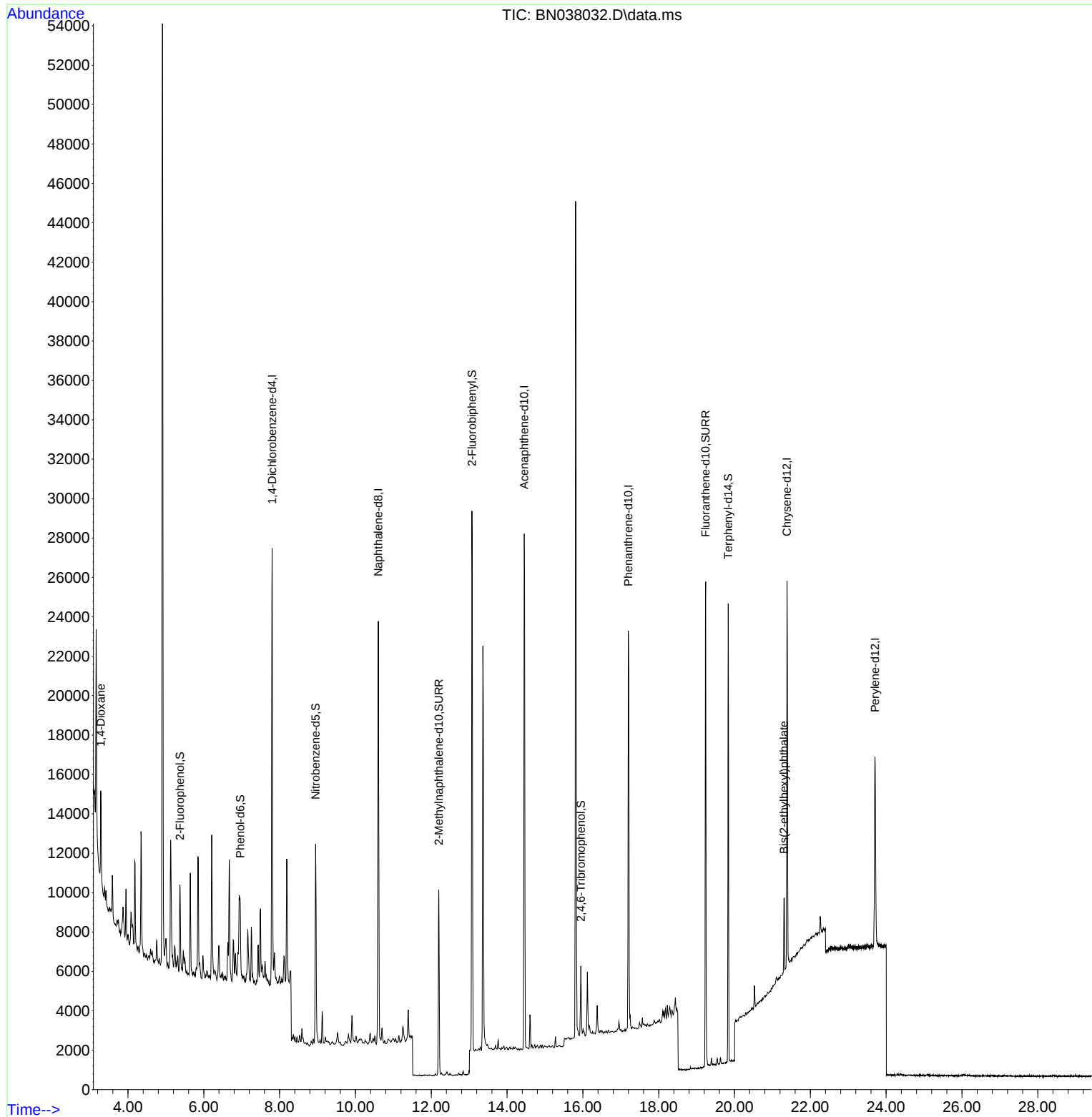
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	9243	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	27657	0.400	ng	-0.02
13) Acenaphthene-d10	14.452	164	15535	0.400	ng	-0.02
19) Phenanthrene-d10	17.198	188	29744	0.400	ng	#-0.02
29) Chrysene-d12	21.384	240	17950	0.400	ng	#-0.02
35) Perylene-d12	23.704	264	14042	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.370	112	3277	0.155	ng	-0.01
5) Phenol-d6	6.959	99	2715	0.098	ng	-0.01
8) Nitrobenzene-d5	8.950	82	7556	0.358	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	12756	0.332	ng	-0.02
14) 2,4,6-Tribromophenol	15.945	330	1986	0.337	ng	-0.02
15) 2-Fluorobiphenyl	13.073	172	24592	0.387	ng	-0.02
27) Fluoranthene-d10	19.239	212	26778	0.358	ng	-0.01
31) Terphenyl-d14	19.833	244	21685	0.606	ng	-0.02
Target Compounds						
2) 1,4-Dioxane	3.283	88	2920	0.311	ng	# 72
34) Bis(2-ethylhexyl)phtha...	21.304	149	4021	0.162	ng	# 97

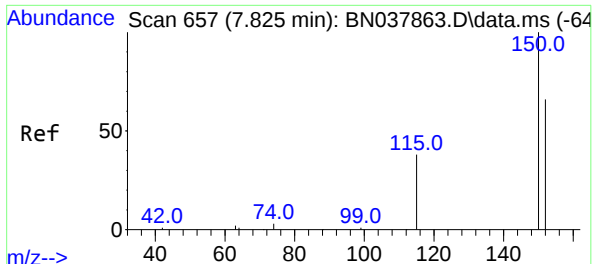
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038032.D
Acq On : 07 Oct 2025 05:34
Operator : RC/JU
Sample : Q3213-08
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-420-422

Quant Time: Oct 07 06:00:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

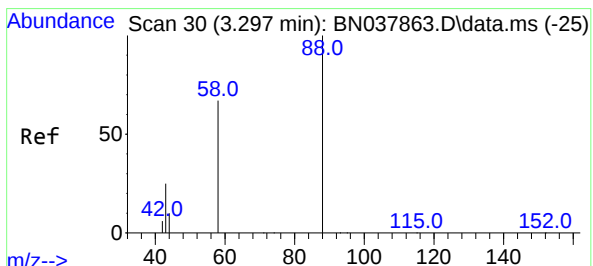
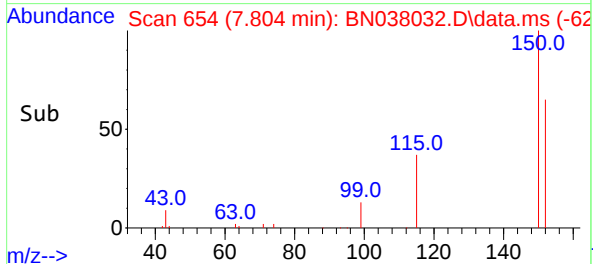
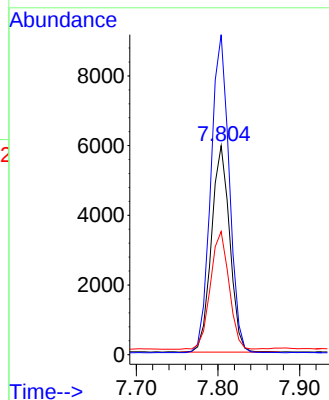
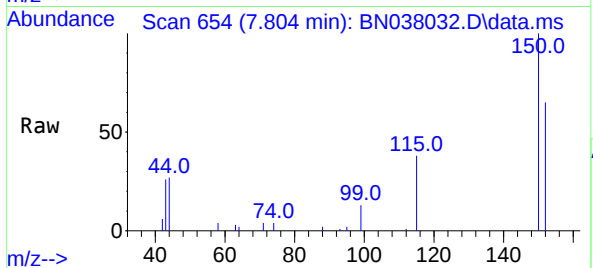




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.804 min Scan# 61
Delta R.T. -0.021 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

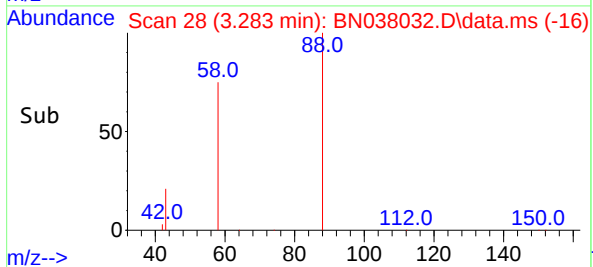
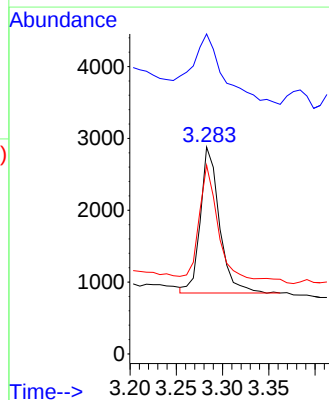
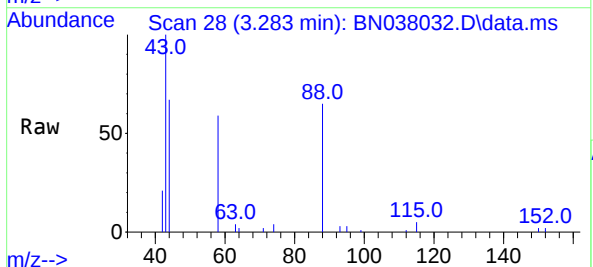
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-420-422

Tgt Ion:152 Resp: 9243
Ion Ratio Lower Upper
152 100
150 153.2 121.0 181.4
115 59.0 47.4 71.0

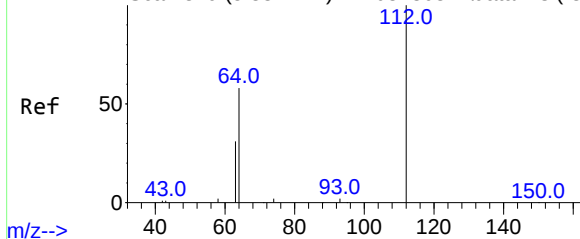


#2
1,4-Dioxane
Concen: 0.311 ng
RT: 3.283 min Scan# 28
Delta R.T. -0.014 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

Tgt Ion: 88 Resp: 2920
Ion Ratio Lower Upper
88 100
43 83.2 26.6 39.8#
58 74.3 58.9 88.3



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.155 ng

RT: 5.370 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-420-422

Tgt Ion:112 Resp: 3277

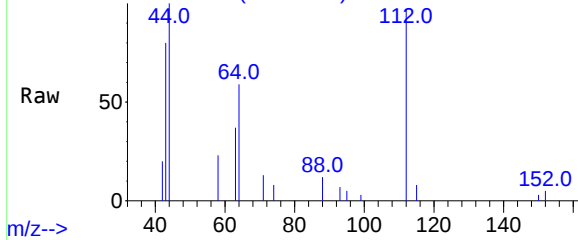
Ion Ratio Lower Upper

112 100

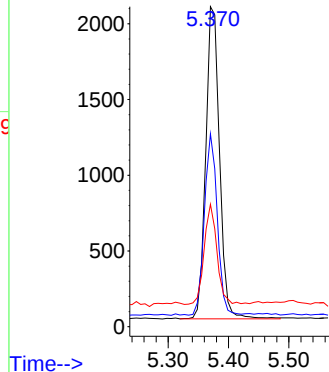
64 54.3 44.6 66.8

63 30.5 24.9 37.3

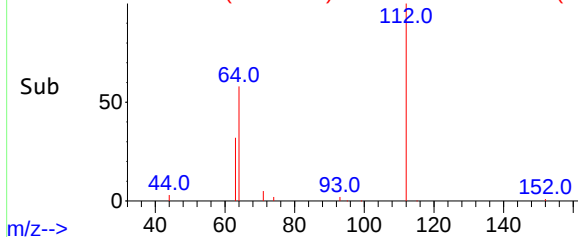
Abundance Scan 317 (5.370 min): BN038032.D\data.ms



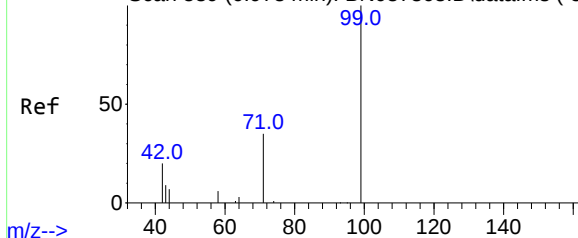
Abundance



Abundance Scan 317 (5.370 min): BN038032.D\data.ms (-29



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



#5

Phenol-d6

Concen: 0.098 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.014 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Tgt Ion: 99 Resp: 2715

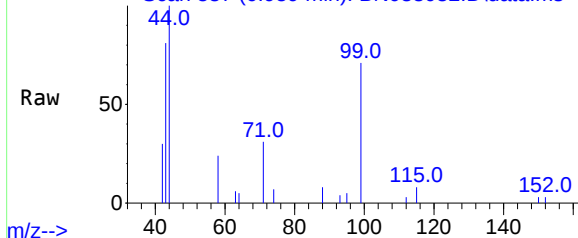
Ion Ratio Lower Upper

99 100

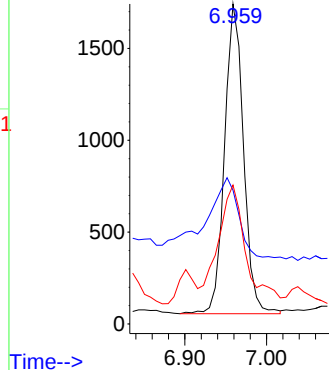
42 52.9 17.2 25.8#

71 54.8 27.3 40.9#

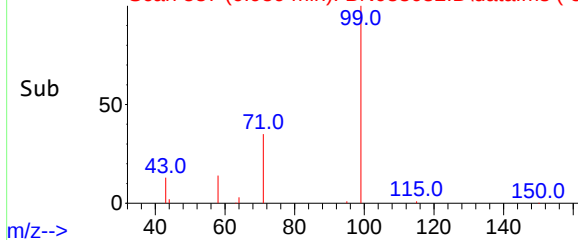
Abundance Scan 537 (6.959 min): BN038032.D\data.ms

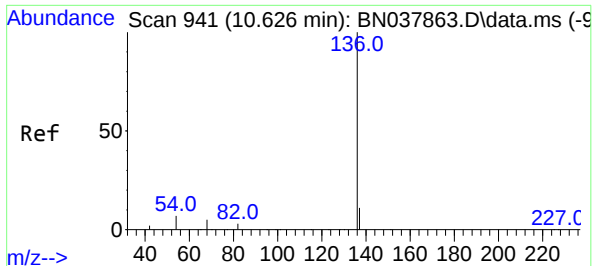


Abundance



Abundance Scan 537 (6.959 min): BN038032.D\data.ms (-51

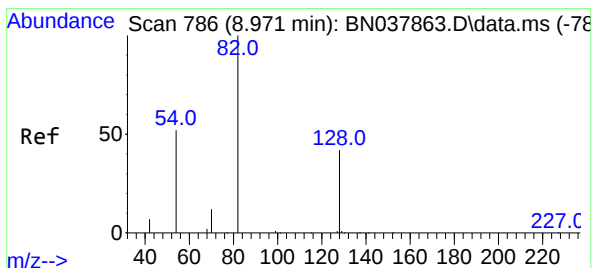
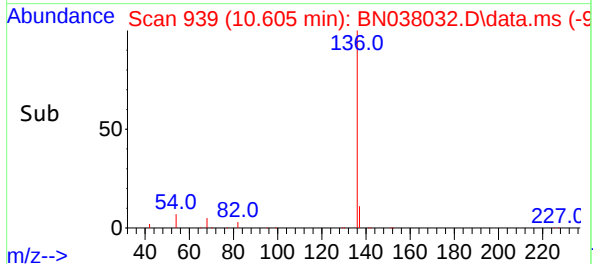
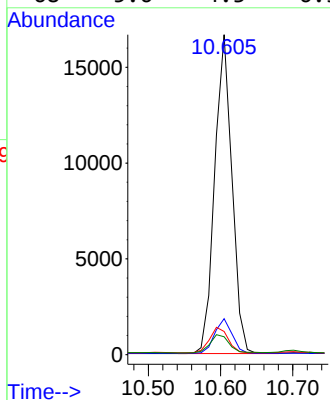
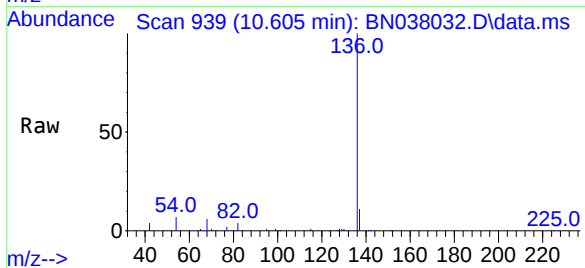




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

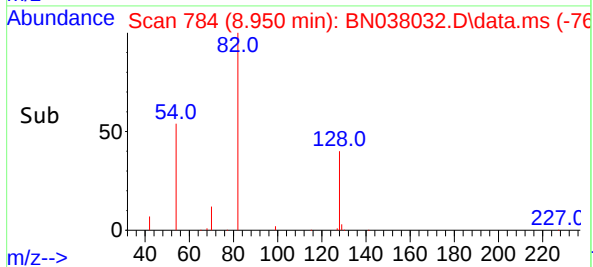
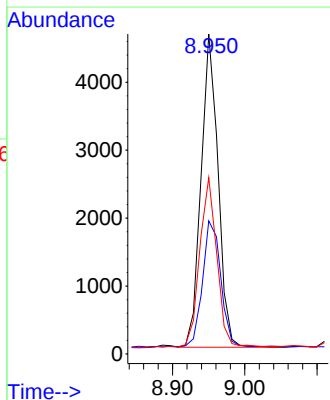
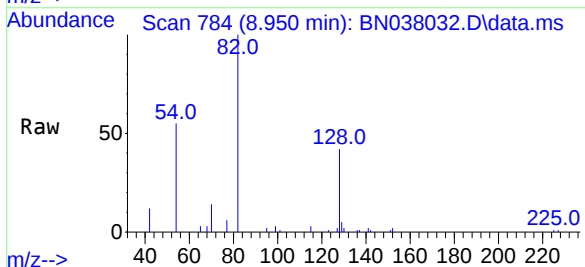
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-420-422

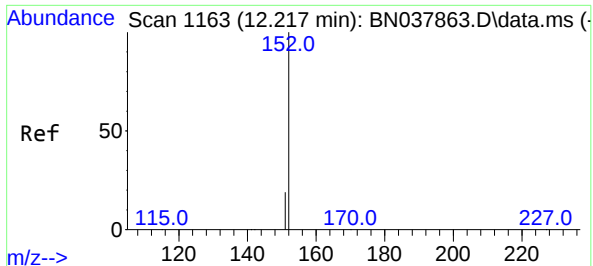
Tgt Ion:	136	Resp:	27657
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.2	5.8	8.8
68	5.6	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.358 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

Tgt Ion:	82	Resp:	7556
Ion	Ratio	Lower	Upper
82	100		
128	41.6	34.8	52.2
54	55.1	42.2	63.2

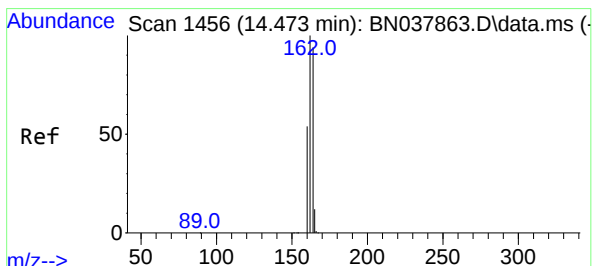
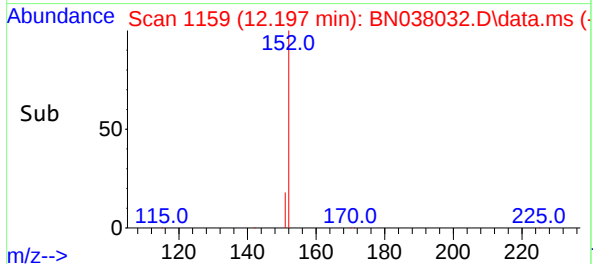
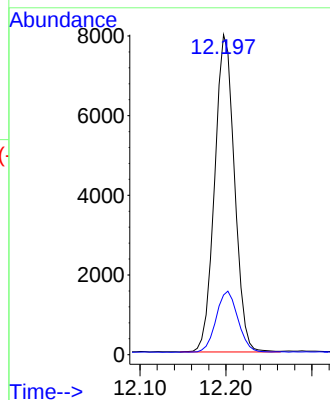
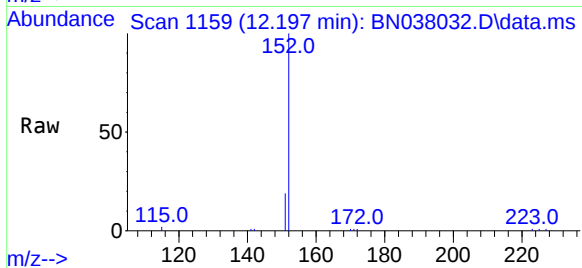




#11
2-Methylnaphthalene-d10
Concen: 0.332 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.020 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

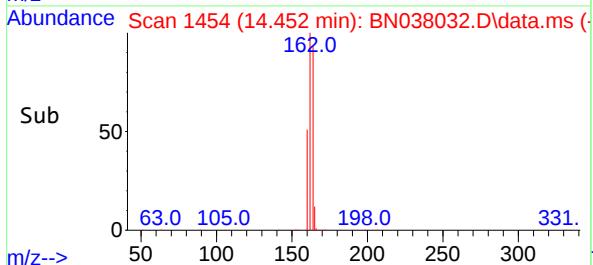
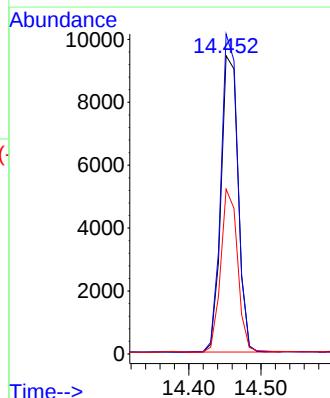
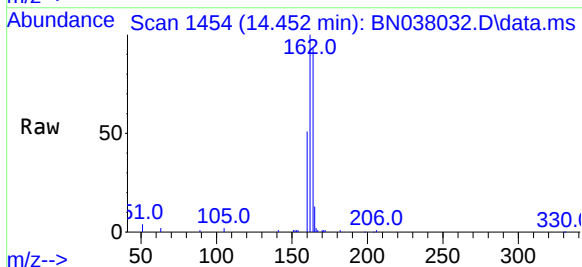
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-420-422

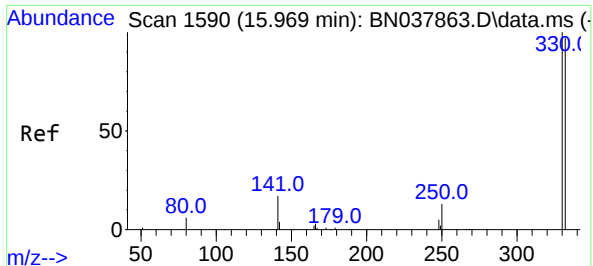
Tgt Ion:152 Resp: 12756
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 1454
Delta R.T. -0.021 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

Tgt Ion:164 Resp: 15535
Ion Ratio Lower Upper
164 100
162 107.3 84.8 127.2
160 55.3 46.1 69.1





#14

2,4,6-Tribromophenol

Concen: 0.337 ng

RT: 15.945 min Scan# 1

Delta R.T. -0.024 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-420-422

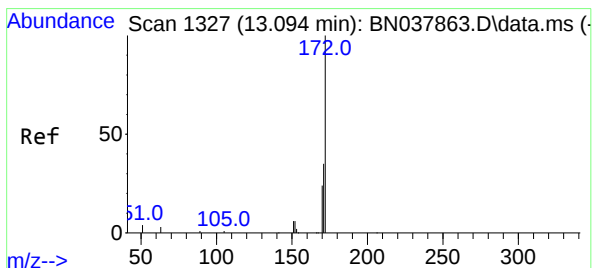
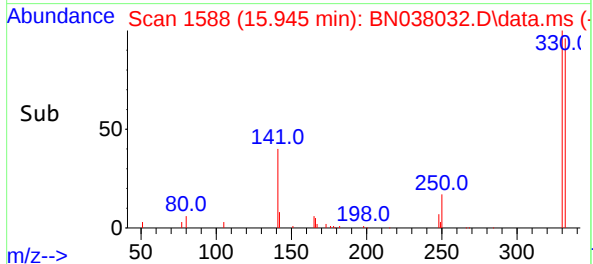
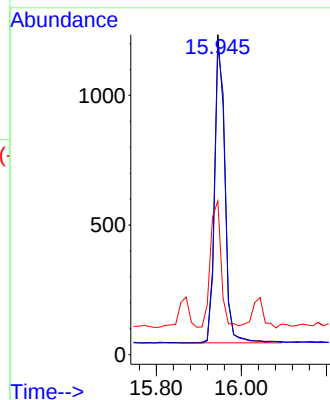
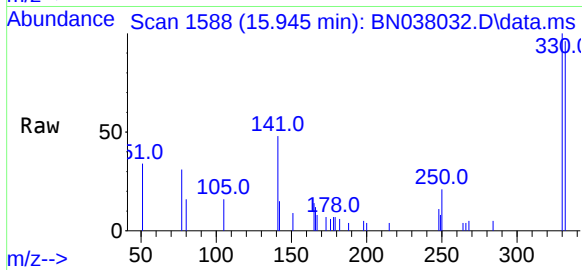
Tgt Ion:330 Resp: 1986

Ion Ratio Lower Upper

330 100

332 99.0 77.2 115.8

141 43.5 37.2 55.8



#15

2-Fluorobiphenyl

Concen: 0.387 ng

RT: 13.073 min Scan# 1325

Delta R.T. -0.021 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

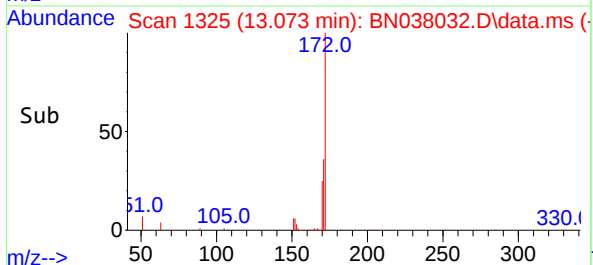
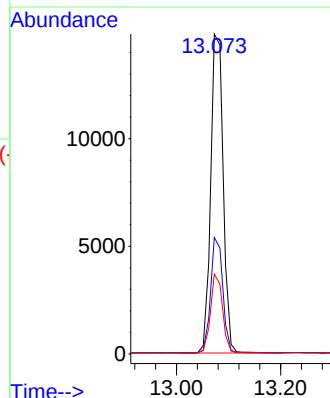
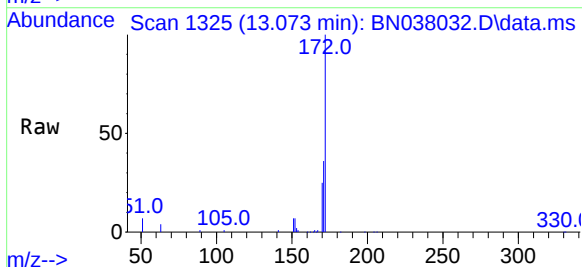
Tgt Ion:172 Resp: 24592

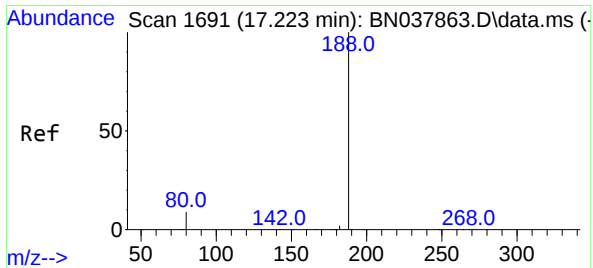
Ion Ratio Lower Upper

172 100

171 36.4 28.6 43.0

170 24.9 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.198 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-GW-420-422

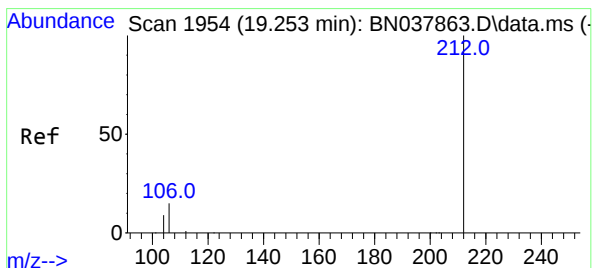
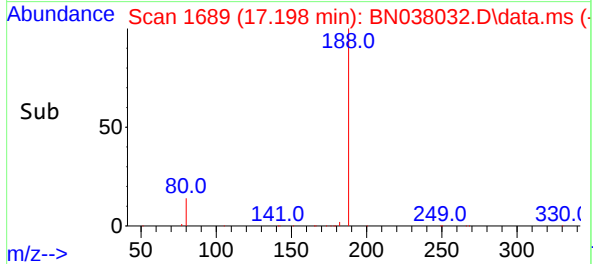
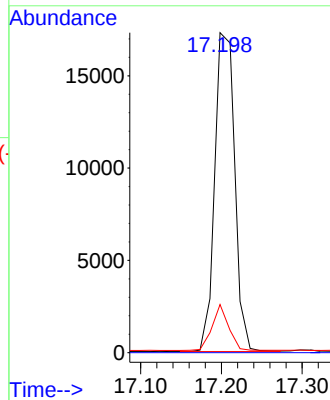
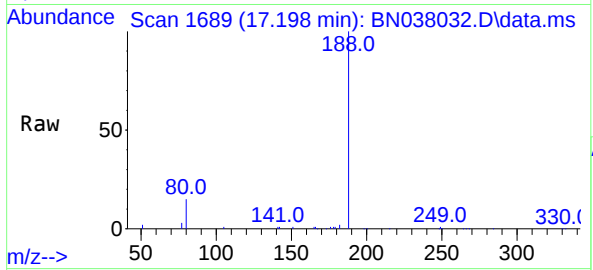
Tgt Ion:188 Resp: 29744

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 7.6 11.4#



#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

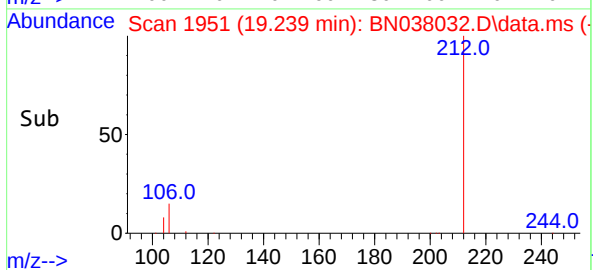
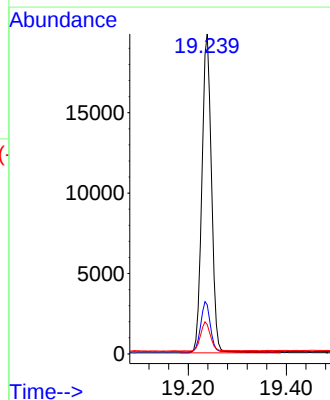
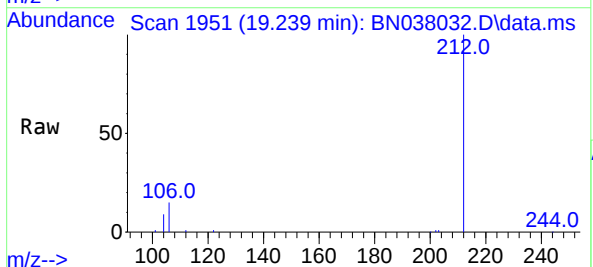
Tgt Ion:212 Resp: 26778

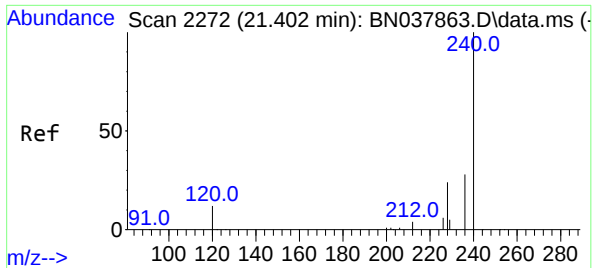
Ion Ratio Lower Upper

212 100

106 15.7 12.6 19.0

104 9.3 7.4 11.0

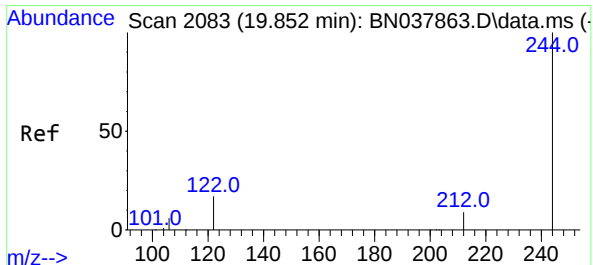
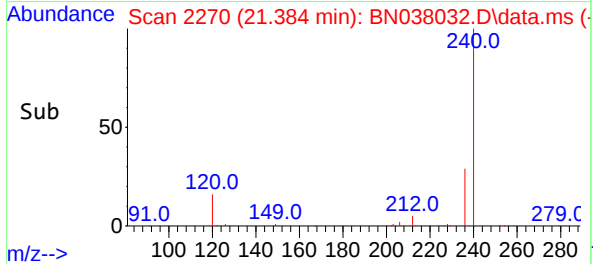
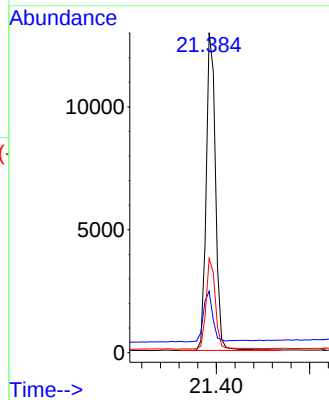
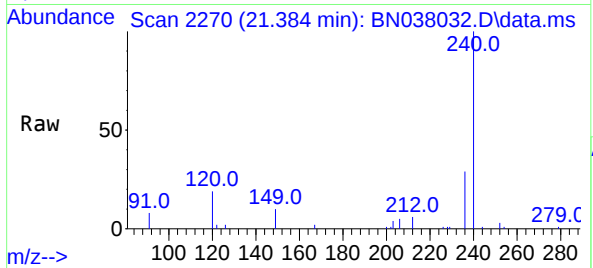




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

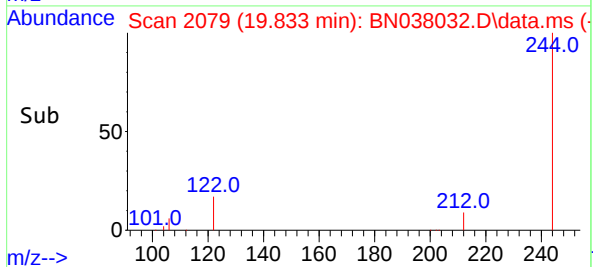
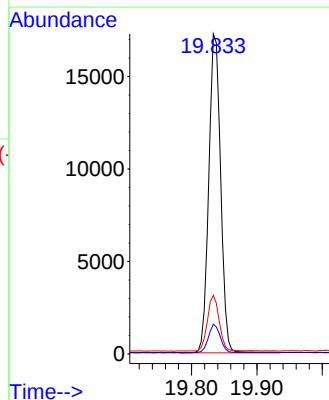
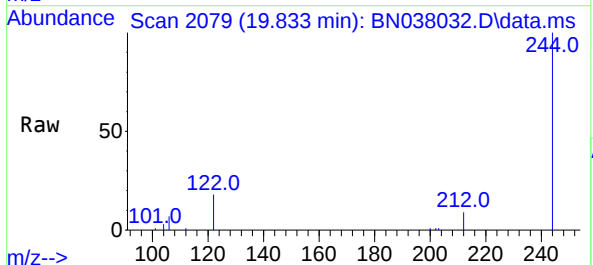
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-420-422

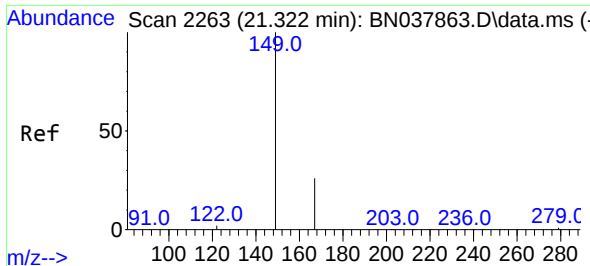
Tgt Ion:240 Resp: 17950
Ion Ratio Lower Upper
240 100
120 19.2 11.4 17.2#
236 29.5 23.0 34.6



#31
Terphenyl-d14
Concen: 0.606 ng
RT: 19.833 min Scan# 2079
Delta R.T. -0.019 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

Tgt Ion:244 Resp: 21685
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 18.3 13.9 20.9

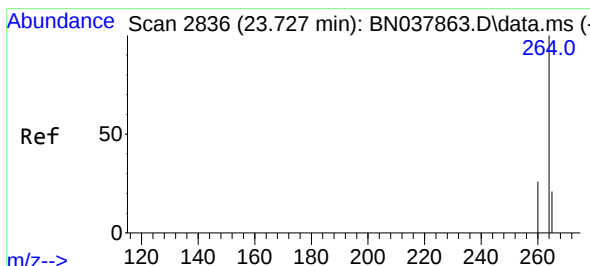
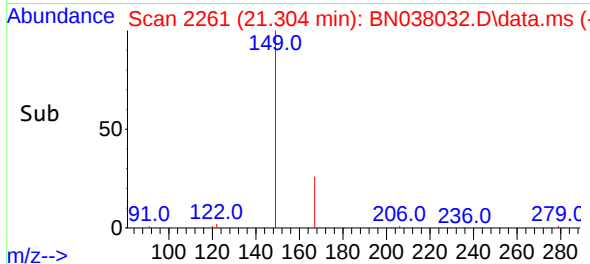
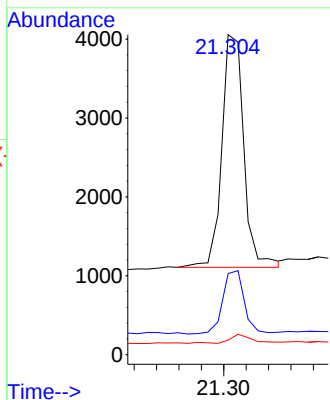
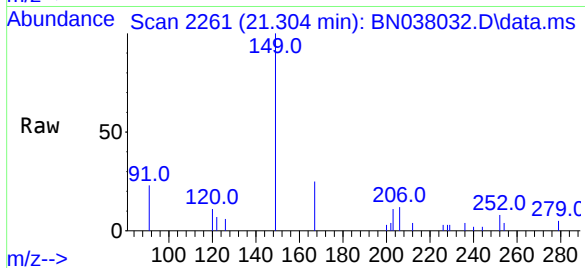




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.162 ng
RT: 21.304 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

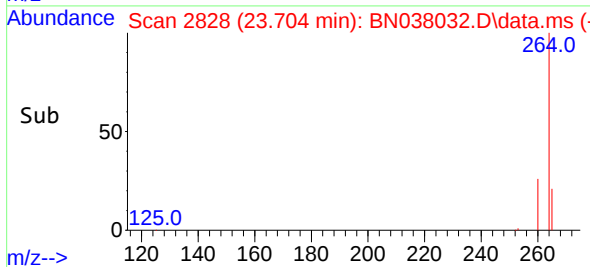
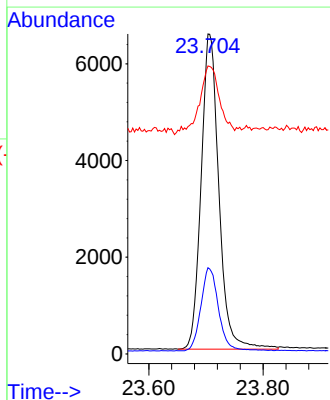
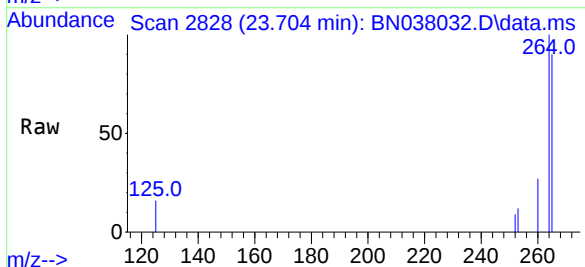
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-GW-420-422

Tgt Ion:149 Resp: 4021
Ion Ratio Lower Upper
149 100
167 27.1 20.4 30.6
279 4.0 2.4 3.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.704 min Scan# 2828
Delta R.T. -0.023 min
Lab File: BN038032.D
Acq: 07 Oct 2025 05:34

Tgt Ion:264 Resp: 14042
Ion Ratio Lower Upper
264 100
260 26.9 21.5 32.3
265 90.0 53.8 80.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	09/23/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	09/25/25
Client Sample ID:	BP-VPB-184-EB-20250923	SDG No.:	Q3213
Lab Sample ID:	Q3213-10	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	730 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
BN038033.D	1	09/26/25 13:15	10/07/25 06:10	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.090	0.27	0.27	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		82%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		85%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9570	7.803				
1146-65-2	Naphthalene-d8	28400	10.605				
15067-26-2	Acenaphthene-d10	15500	14.462				
1517-22-2	Phenanthrene-d10	28500	17.21				
1719-03-5	Chrysene-d12	16900	21.393				
1520-96-3	Perylene-d12	14100	23.709				

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\BN100625\
 Data File : BN038033.D
 Acq On : 07 Oct 2025 06:10
 Operator : RC/JU
 Sample : Q3213-10
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-VPB-184-EB-20250923

Quant Time: Oct 07 08:09:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

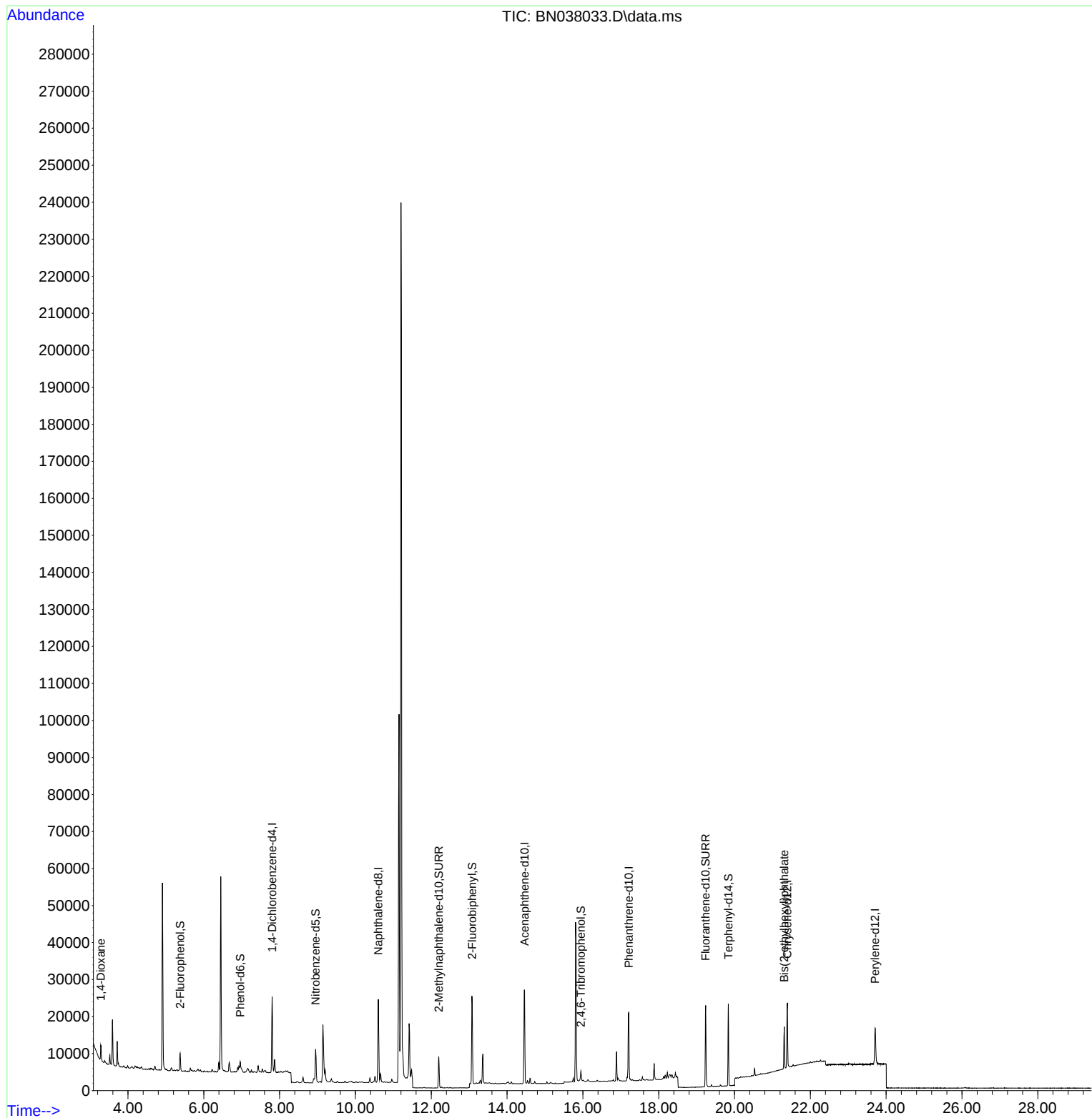
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.803	152	9567	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	28389	0.400	ng	-0.02
13) Acenaphthene-d10	14.462	164	15544	0.400	ng	-0.01
19) Phenanthrene-d10	17.210	188	28505	0.400	ng	#-0.01
29) Chrysene-d12	21.393	240	16926	0.400	ng	0.00
35) Perylene-d12	23.709	264	14124	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	2884	0.132	ng	0.00
5) Phenol-d6	6.958	99	2368	0.083	ng	-0.01
8) Nitrobenzene-d5	8.950	82	7124	0.329	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	11261	0.286	ng	-0.02
14) 2,4,6-Tribromophenol	15.944	330	1625	0.276	ng	-0.02
15) 2-Fluorobiphenyl	13.083	172	21579	0.339	ng	-0.01
27) Fluoranthene-d10	19.238	212	23774	0.332	ng	-0.01
31) Terphenyl-d14	19.837	244	19785	0.587	ng	-0.01
Target Compounds						
2) 1,4-Dioxane	3.282	88	2145	0.221	ng	# 52
34) Bis(2-ethylhexyl)phtha...	21.312	149	10637	0.455	ng	99

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

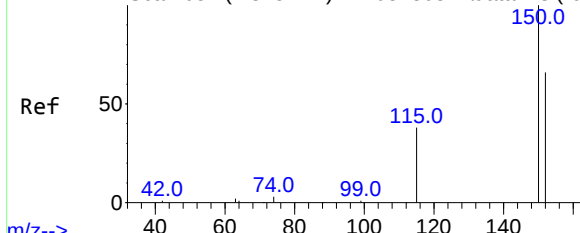
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038033.D
Acq On : 07 Oct 2025 06:10
Operator : RC/JU
Sample : Q3213-10
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20250923

Quant Time: Oct 07 08:09:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.803 min Scan# 61

Delta R.T. -0.022 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Instrument :

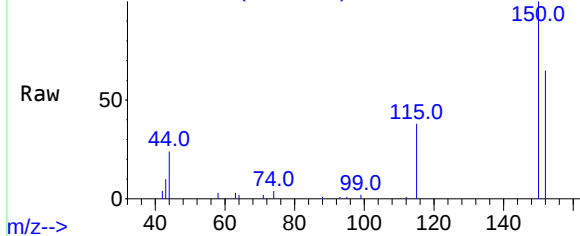
BNA_N

ClientSampleId :

BP-VPB-184-EB-20250923

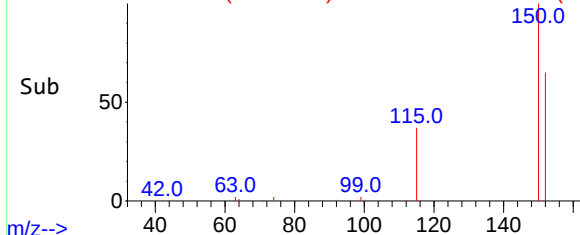
m/z-->

Abundance Scan 654 (7.803 min): BN038033.D\data.ms



m/z-->

Abundance Scan 654 (7.803 min): BN038033.D\data.ms (-62



m/z-->

Tgt Ion:152 Resp: 9567

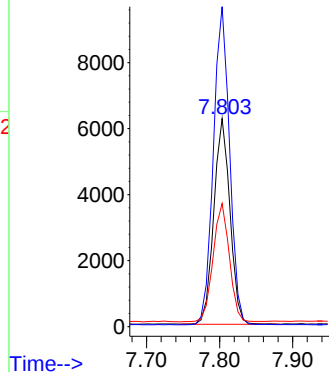
Ion Ratio Lower Upper

152 100

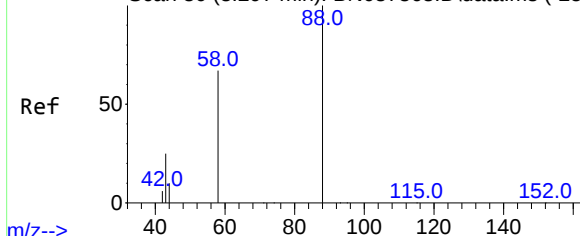
150 153.7 121.0 181.4

115 59.2 47.4 71.0

Abundance

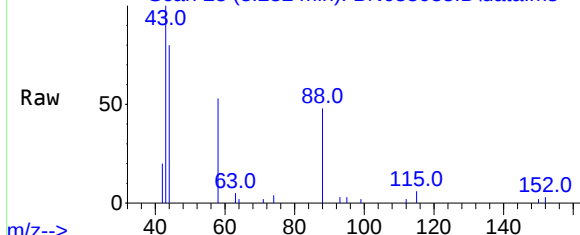


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



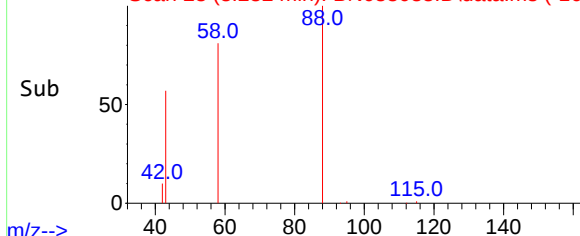
m/z-->

Abundance Scan 28 (3.282 min): BN038033.D\data.ms



m/z-->

Abundance Scan 28 (3.282 min): BN038033.D\data.ms (-16)



m/z-->

#2

1,4-Dioxane

Concen: 0.221 ng

RT: 3.282 min Scan# 28

Delta R.T. -0.015 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Tgt Ion: 88 Resp: 2145

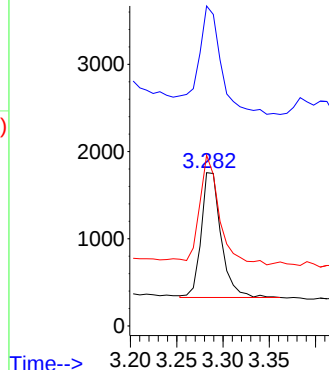
Ion Ratio Lower Upper

88 100

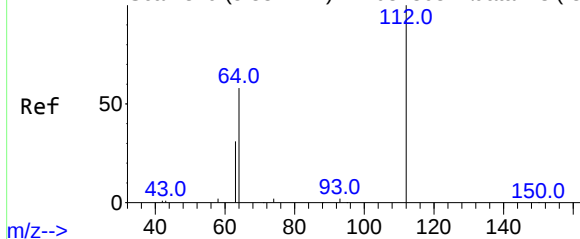
43 99.0 26.6 39.8

58 87.8 58.9 88.3

Abundance

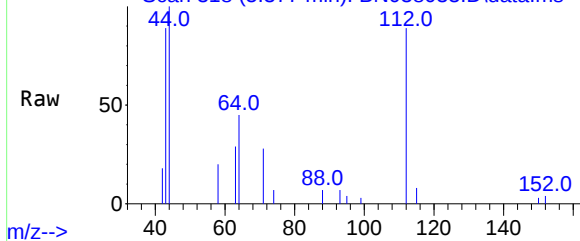


Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



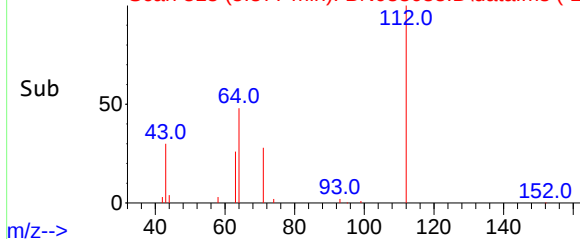
m/z-->

Abundance Scan 318 (5.377 min): BN038033.D\data.ms



m/z-->

Abundance Scan 318 (5.377 min): BN038033.D\data.ms (-29



m/z-->

#4

2-Fluorophenol

Concen: 0.132 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.008 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-EB-20250923

Tgt Ion:112 Resp: 2884

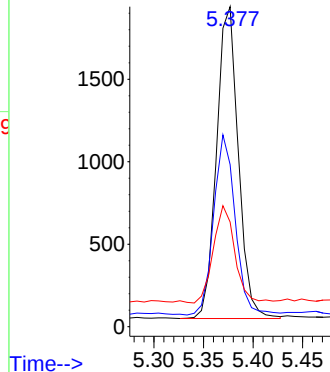
Ion Ratio Lower Upper

112 100

64 57.3 44.6 66.8

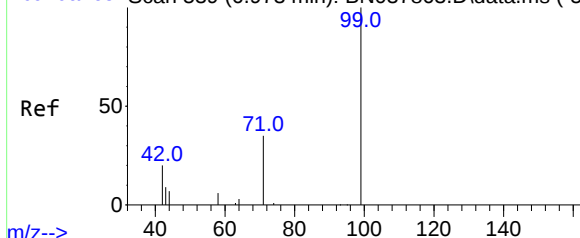
63 31.0 24.9 37.3

Abundance



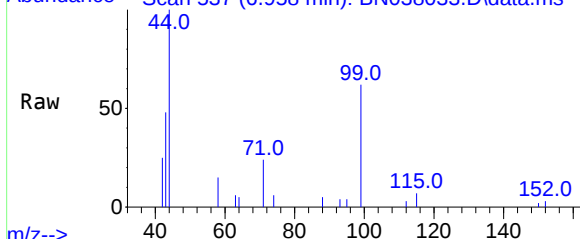
Time-->

Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



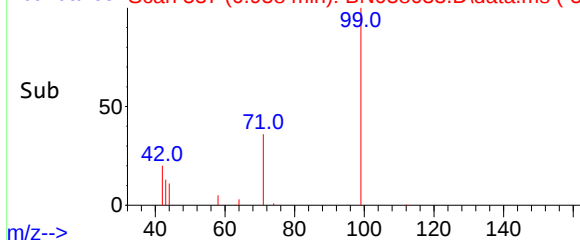
m/z-->

Abundance Scan 537 (6.958 min): BN038033.D\data.ms



m/z-->

Abundance Scan 537 (6.958 min): BN038033.D\data.ms (-51



m/z-->

#5

Phenol-d6

Concen: 0.083 ng

RT: 6.958 min Scan# 537

Delta R.T. -0.015 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Tgt Ion: 99 Resp: 2368

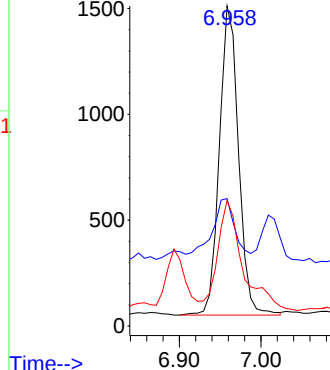
Ion Ratio Lower Upper

99 100

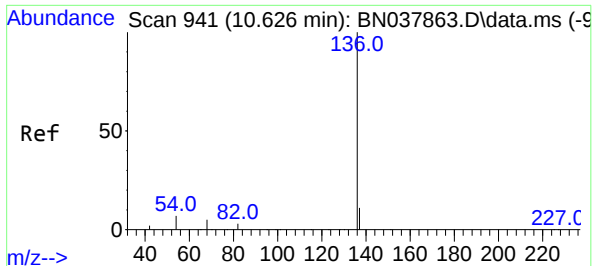
42 26.5 17.2 25.8#

71 47.1 27.3 40.9#

Abundance



Time-->

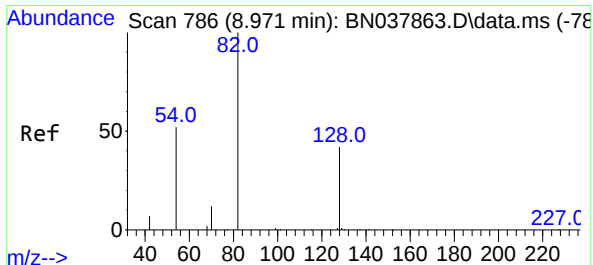
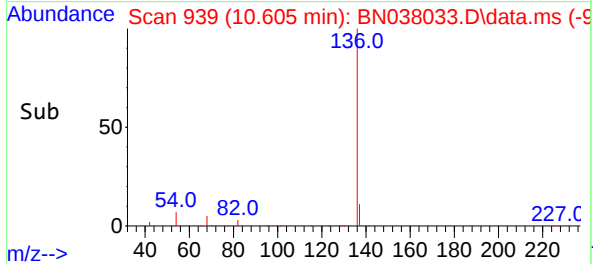
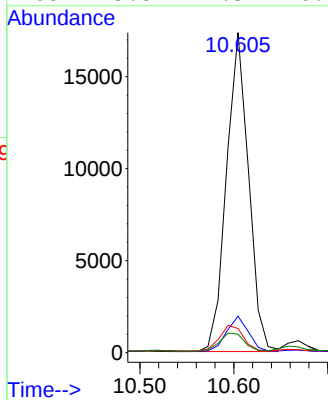
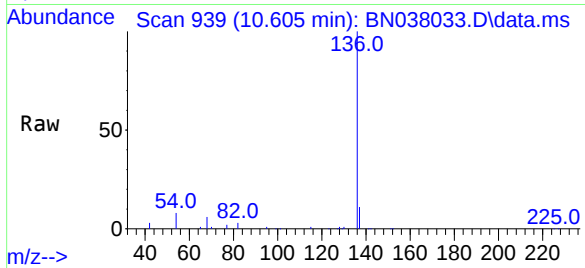


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20250923

Tgt Ion:136 Resp: 28389

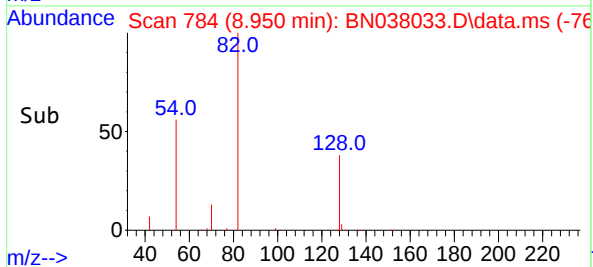
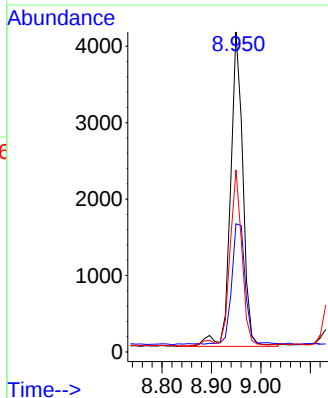
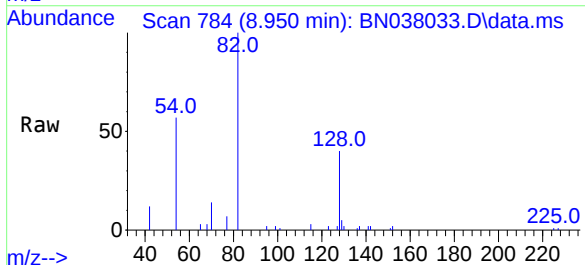
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	7.5	5.8	8.8
68	5.8	4.3	6.5

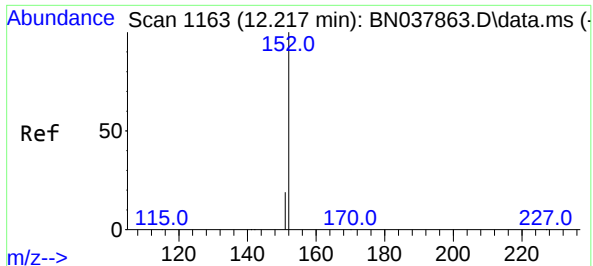


#8
Nitrobenzene-d5
Concen: 0.329 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.022 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

Tgt Ion: 82 Resp: 7124

Ion	Ratio	Lower	Upper
82	100		
128	40.1	34.8	52.2
54	56.9	42.2	63.2

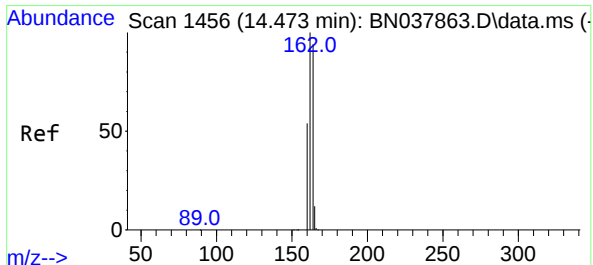
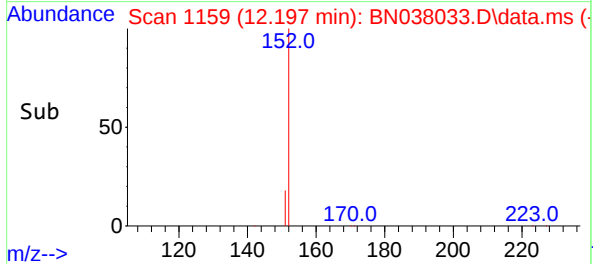
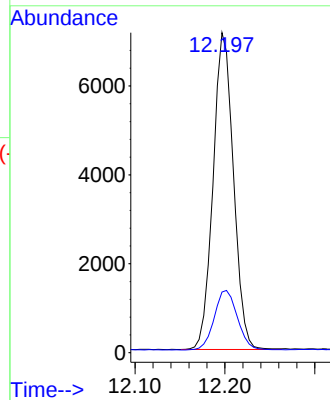
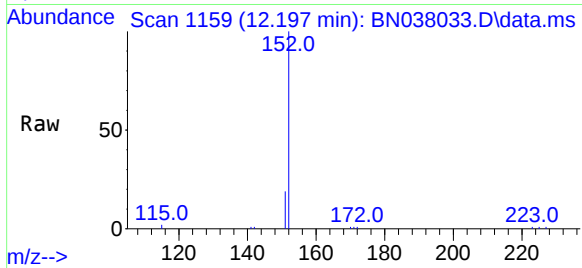




#11
2-Methylnaphthalene-d10
Concen: 0.286 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.021 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

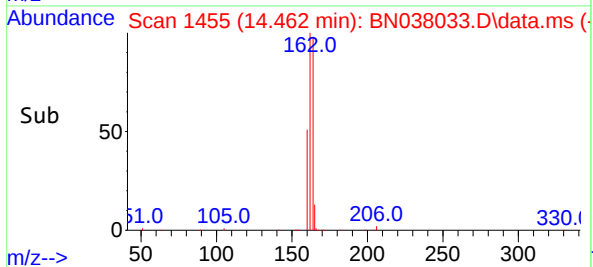
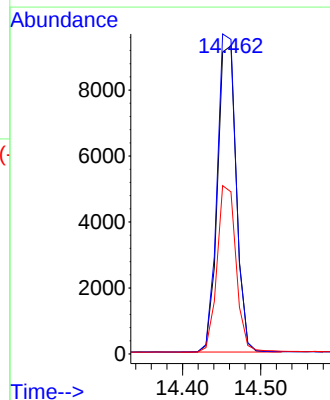
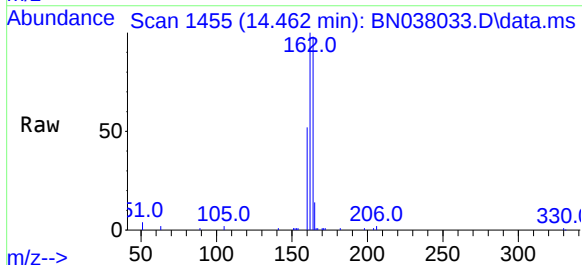
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20250923

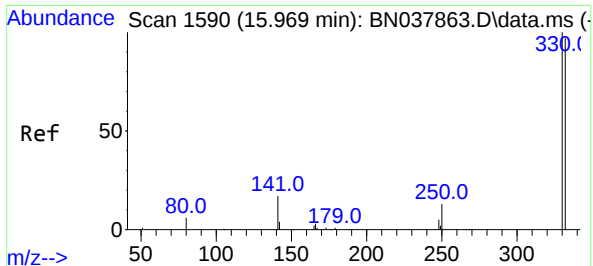
Tgt Ion:152 Resp: 11261
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.2



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1455
Delta R.T. -0.011 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

Tgt Ion:164 Resp: 15544
Ion Ratio Lower Upper
164 100
162 102.1 84.8 127.2
160 52.6 46.1 69.1

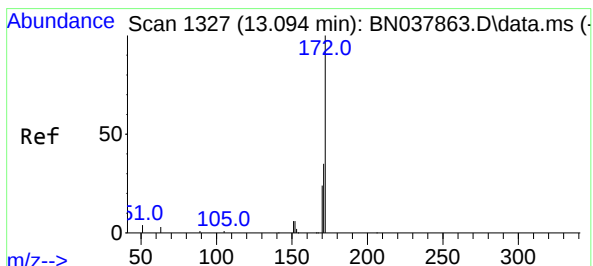
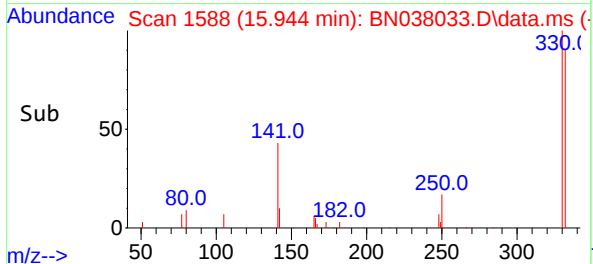
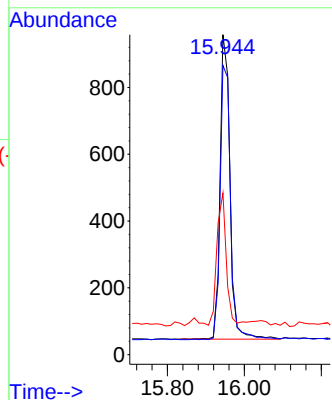
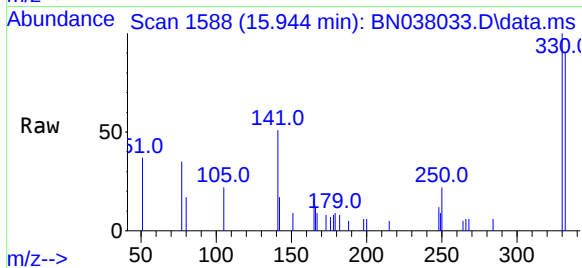




#14
2,4,6-Tribromophenol
Concen: 0.276 ng
RT: 15.944 min Scan# 1588
Delta R.T. -0.025 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

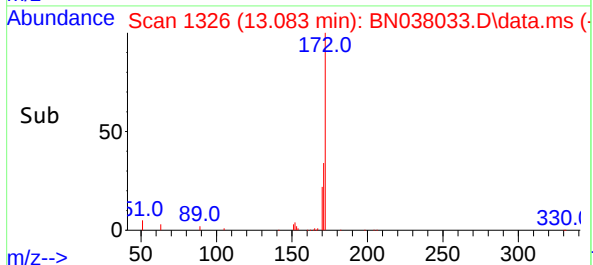
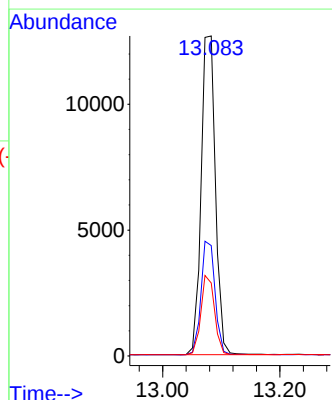
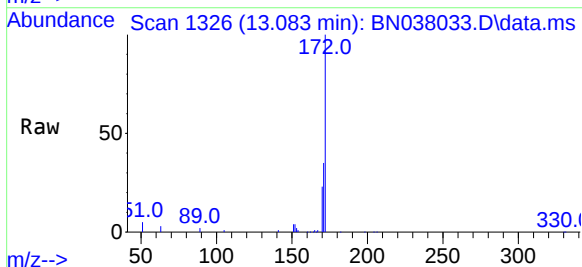
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20250923

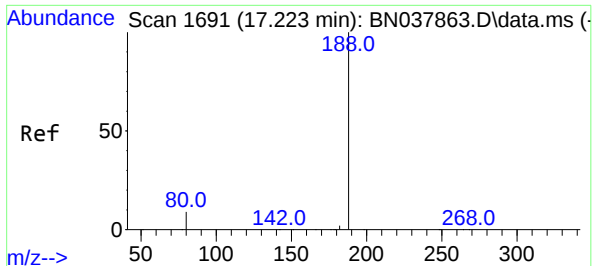
Tgt Ion:330 Resp: 1625
Ion Ratio Lower Upper
330 100
332 95.4 77.2 115.8
141 41.8 37.2 55.8



#15
2-Fluorobiphenyl
Concen: 0.339 ng
RT: 13.083 min Scan# 1326
Delta R.T. -0.011 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

Tgt Ion:172 Resp: 21579
Ion Ratio Lower Upper
172 100
171 34.5 28.6 43.0
170 22.8 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Instrument :

BNA_N

ClientSampleId :

BP-VPB-184-EB-20250923

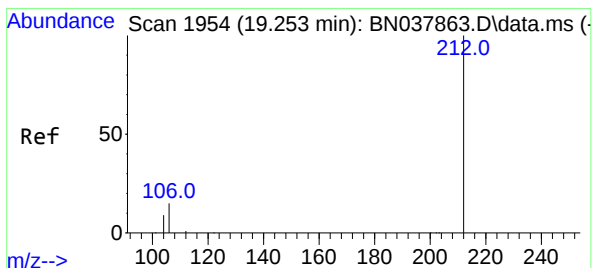
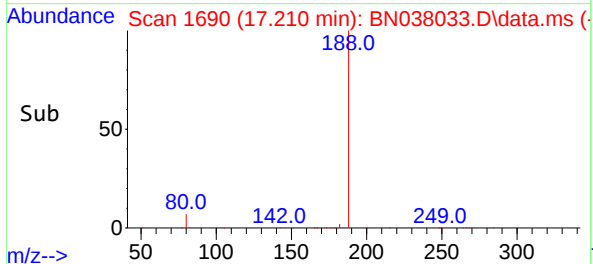
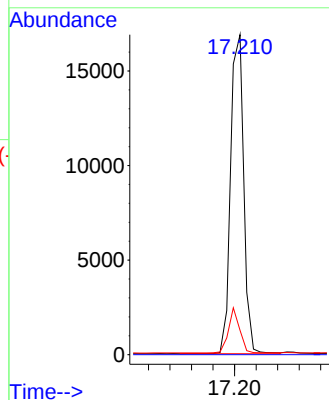
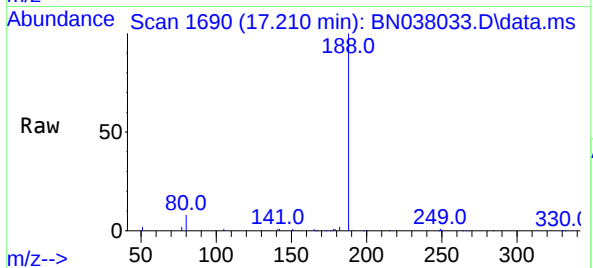
Tgt Ion:188 Resp: 28505

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.6 7.6 11.4#



#27

Fluoranthene-d10

Concen: 0.332 ng

RT: 19.238 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

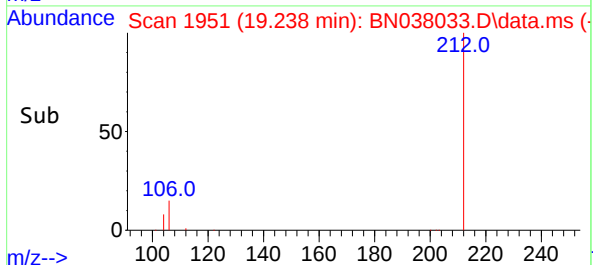
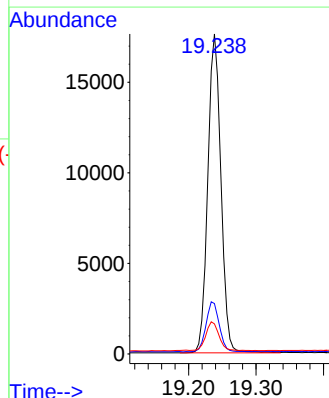
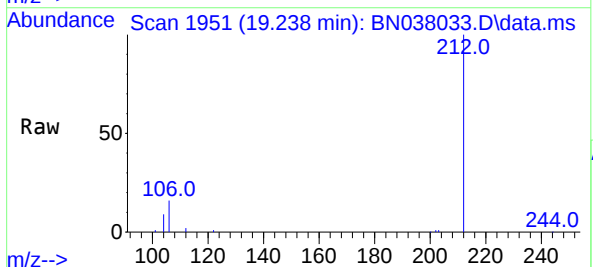
Tgt Ion:212 Resp: 23774

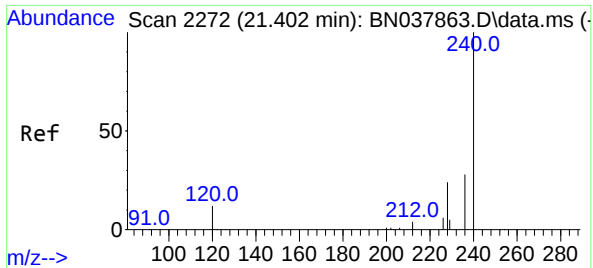
Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0

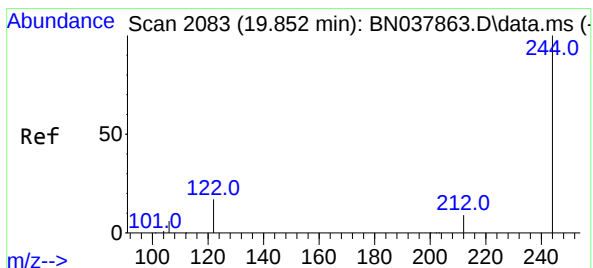
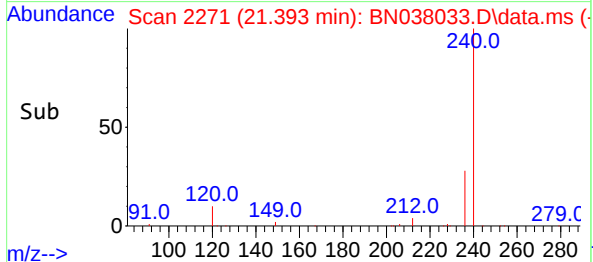
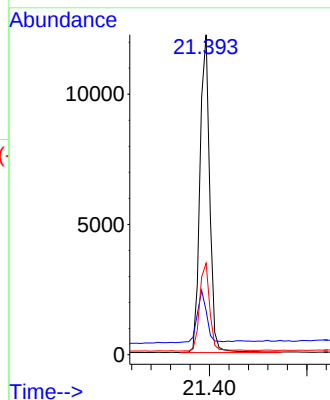
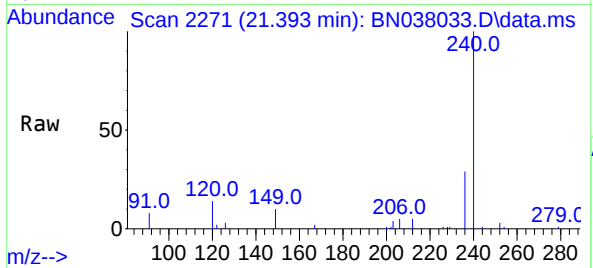




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

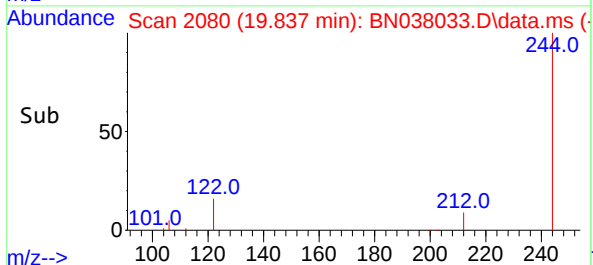
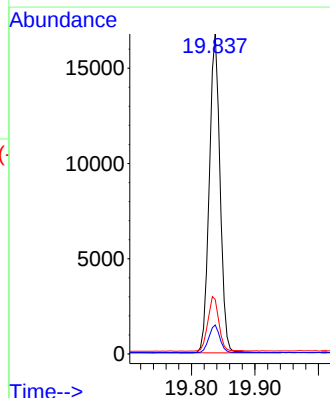
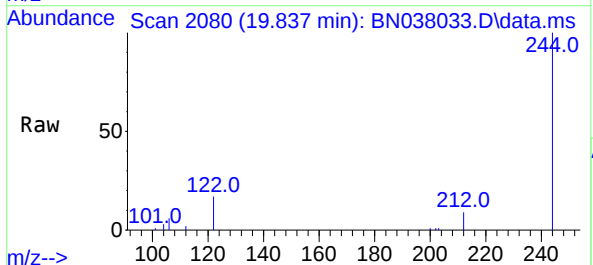
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20250923

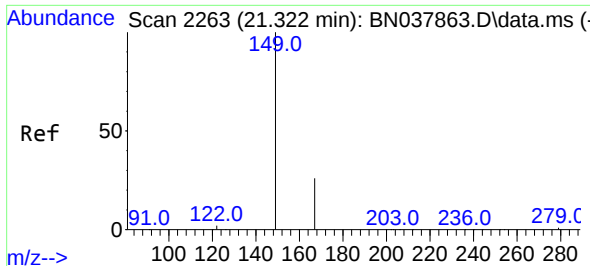
Tgt Ion:240 Resp: 16926
Ion Ratio Lower Upper
240 100
120 13.7 11.4 17.2
236 28.6 23.0 34.6



#31
Terphenyl-d14
Concen: 0.587 ng
RT: 19.837 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

Tgt Ion:244 Resp: 19785
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 17.0 13.9 20.9

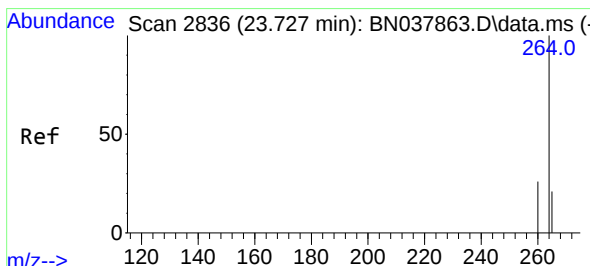
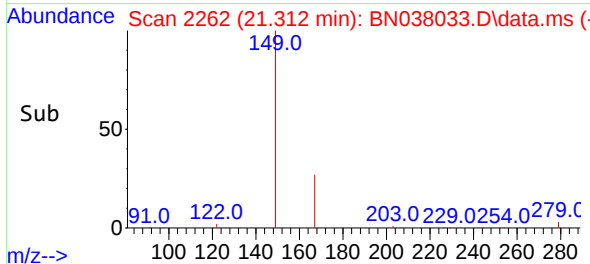
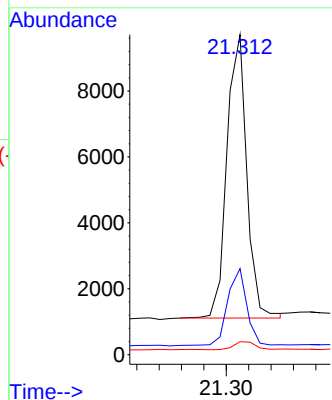
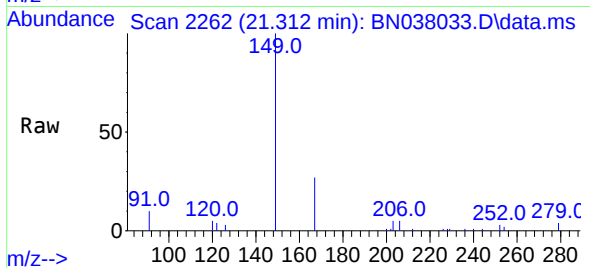




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.455 ng
RT: 21.312 min Scan# 2130
Delta R.T. -0.009 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

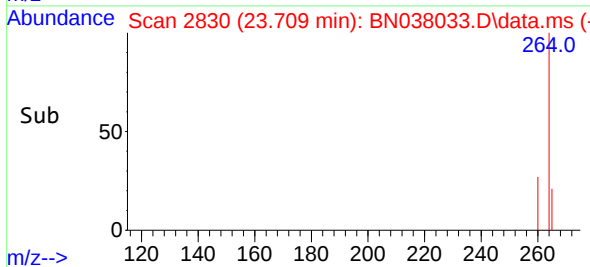
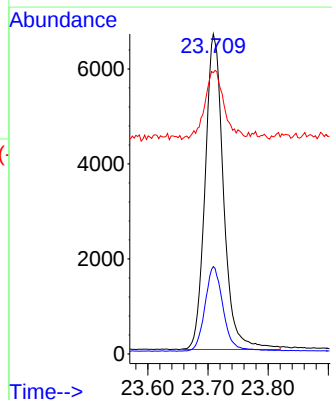
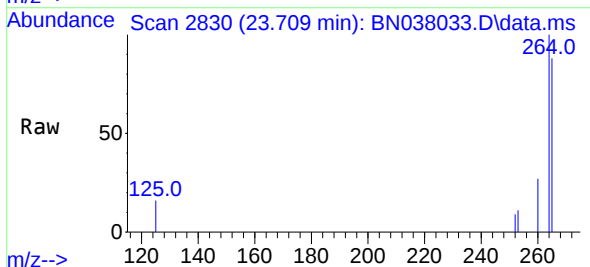
Instrument :
BNA_N
ClientSampleId :
BP-VPB-184-EB-20250923

Tgt Ion:149 Resp: 10637
Ion Ratio Lower Upper
149 100
167 26.0 20.4 30.6
279 3.3 2.4 3.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.709 min Scan# 2830
Delta R.T. -0.018 min
Lab File: BN038033.D
Acq: 07 Oct 2025 06:10

Tgt Ion:264 Resp: 14124
Ion Ratio Lower Upper
264 100
260 27.3 21.5 32.3
265 87.9 53.8 80.6#





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN092325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Sep 24 11:00:01 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.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	0.410	0.403	0.425	0.410	0.376	0.406	4.04	
3)	n-Nitrosodimet...	0.541	0.517	0.526	0.561	0.549	0.547	0.540	3.03	
4) S	2-Fluorophenol	0.944	0.921	0.856	0.839	0.908	0.923	0.998	0.913	5.84
5) S	Phenol-d6	1.190	1.200	1.118	1.088	1.211	1.236	1.353	1.199	7.15
6)	bis(2-Chloroet...	1.133	1.096	1.082	1.066	1.150	1.124	1.143	1.113	2.89
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.299	0.289	0.289	0.290	0.310	0.320	0.338	0.305	6.14
9)	Naphthalene	1.105	1.089	1.048	1.051	1.123	1.137	1.160	1.102	3.84
10)	Hexachlorobuta...	0.198	0.184	0.182	0.183	0.192	0.188	0.188	0.188	2.94
11) SURR2	Methylnaphth...	0.515	0.518	0.499	0.504	0.553	0.587	0.714	0.556	13.74
12)	2-Methylnaphth...	0.678	0.681	0.668	0.682	0.754	0.775	0.802	0.720	7.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.148	0.142	0.135	0.139	0.163	0.184	0.152	12.15	
15) S	2-Fluorobiphenyl	1.660	1.631	1.559	1.547	1.654	1.650	1.762	1.638	4.36
16)	Acenaphthylene	1.698	1.721	1.663	1.680	1.907	1.951	2.094	1.816	9.23
17)	Acenaphthene	1.262	1.230	1.198	1.208	1.351	1.371	1.437	1.294	7.16
18)	Fluorene	1.455	1.455	1.452	1.466	1.664	1.717	1.748	1.565	8.77
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.041	0.044	0.046	0.058	0.071	0.084	0.057	29.75	
21)	4-Bromophenyl-...	0.252	0.247	0.244	0.244	0.272	0.275	0.291	0.261	7.07
22)	Hexachlorobenzene	0.317	0.312	0.305	0.300	0.324	0.323	0.332	0.316	3.53
23)	Atrazine	0.180	0.181	0.172	0.178	0.205	0.224	0.249	0.199	14.70
24)	Pentachlorophenol	0.101	0.092	0.097	0.116	0.136	0.108	16.50		
25)	Phenanthrene	1.301	1.271	1.230	1.224	1.358	1.379	1.452	1.316	6.37
26)	Anthracene	1.034	1.035	1.023	1.057	1.209	1.275	1.361	1.142	12.10
27) SURR	Fluoranthene-d10	0.880	0.918	0.887	0.900	1.004	1.085	1.370	1.006	17.59
28)	Fluoranthene	1.278	1.315	1.311	1.358	1.555	1.617	1.713	1.450	12.07
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.576	1.600	1.521	1.476	1.607	1.595	1.679	1.579	4.12
31) S	Terphenyl-d14	0.799	0.791	0.753	0.735	0.798	0.809	0.893	0.797	6.34
32)	Benzo(a)anthra...	1.376	1.359	1.294	1.285	1.423	1.483	1.567	1.398	7.27
33)	Chrysene	1.508	1.526	1.462	1.446	1.559	1.512	1.569	1.512	3.03
34)	Bis(2-ethylhex...	0.592	0.487	0.476	0.518	0.569	0.676	0.553	13.57	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN092325.M

36)	Indeno(1,2,3-c...	1.715	1.672	1.658	1.707	1.887	1.996	2.159	1.828	10.52
37)	Benzo(b)fluora...	1.599	1.606	1.641	1.590	1.810	1.848	1.981	1.725	8.95
38)	Benzo(k)fluora...	1.620	1.586	1.597	1.628	1.875	1.917	1.926	1.736	9.26
39) C	Benzo(a)pyrene	1.254	1.296	1.231	1.254	1.413	1.492	1.610	1.364	10.61
40)	Dibenzo(a,h)an...	1.285	1.283	1.303	1.333	1.495	1.587	1.705	1.427	11.87
41)	Benzo(g,h,i)pe...	1.407	1.381	1.404	1.397	1.521	1.613	1.773	1.499	9.85

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037861.D
 Acq On : 23 Sep 2025 12:13
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Sep 23 16:21:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

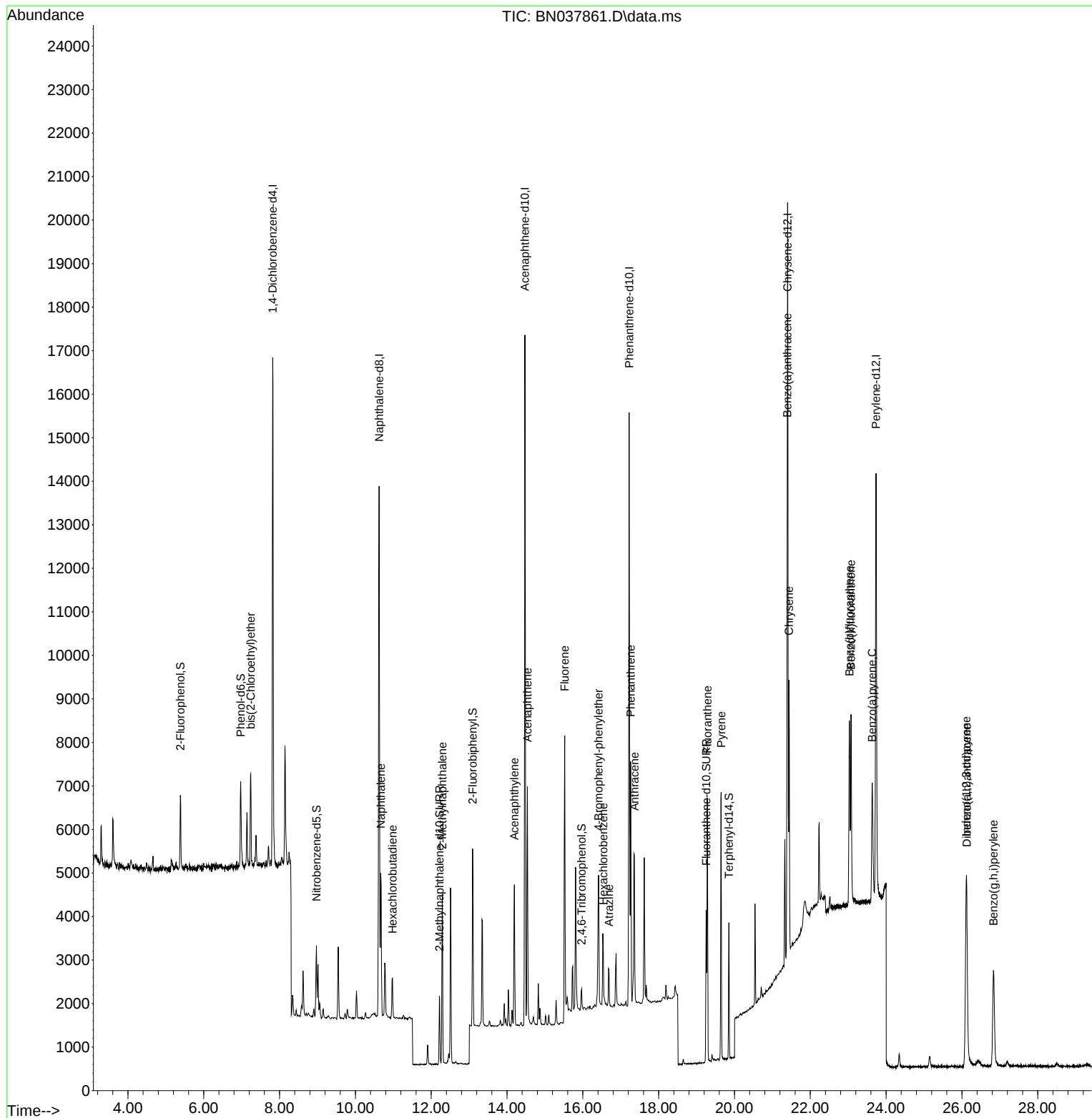
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.818	152	5856	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16223	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8379	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17197	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13854	0.400	ng	0.00
35) Perylene-d12	23.736	264	13928	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	1382	0.103	ng	0.00
5) Phenol-d6	6.973	99	1742	0.099	ng	0.00
8) Nitrobenzene-d5	8.971	82	1212	0.098	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	2089	0.093	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	309	0.091	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	3478	0.101	ng	0.00
27) Fluoranthene-d10	19.253	212	3783	0.087	ng	0.00
31) Terphenyl-d14	19.852	244	2766	0.100	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.240	93	1658	0.102	ng	99
9) Naphthalene	10.669	128	4483	0.100	ng	96
10) Hexachlorobutadiene	10.979	225	802	0.105	ng	# 96
12) 2-Methylnaphthalene	12.293	142	2749	0.094	ng	98
16) Acenaphthylene	14.195	152	3557	0.093	ng	98
17) Acenaphthene	14.537	154	2644	0.098	ng	99
18) Fluorene	15.523	166	3048	0.093	ng	99
21) 4-Bromophenyl-phenylether	16.416	248	1084	0.097	ng	96
22) Hexachlorobenzene	16.540	284	1361	0.100	ng	99
23) Atrazine	16.689	200	772	0.090	ng	# 95
25) Phenanthrene	17.260	178	5595	0.099	ng	99
26) Anthracene	17.360	178	4446	0.091	ng	99
28) Fluoranthene	19.285	202	5493	0.088	ng	99
30) Pyrene	19.647	202	5458	0.100	ng	99
32) Benzo(a)anthracene	21.393	228	4766	0.098	ng	99
33) Chrysene	21.438	228	5223	0.100	ng	99
36) Indeno(1,2,3-cd)pyrene	26.113	276	5972	0.094	ng	98
37) Benzo(b)fluoranthene	23.031	252	5567	0.093	ng	# 78
38) Benzo(k)fluoranthene	23.075	252	5642	0.093	ng	# 80
39) Benzo(a)pyrene	23.630	252	4368	0.092	ng	# 71
40) Dibenzo(a,h)anthracene	26.127	278	4476	0.090	ng	# 85
41) Benzo(g,h,i)perylene	26.832	276	4900	0.094	ng	93

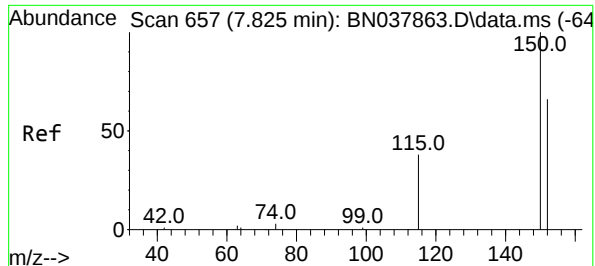
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037861.D
Acq On : 23 Sep 2025 12:13
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

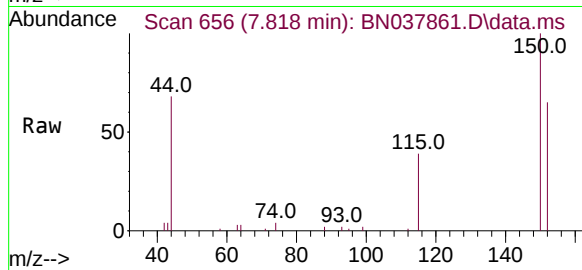
Quant Time: Sep 23 16:21:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



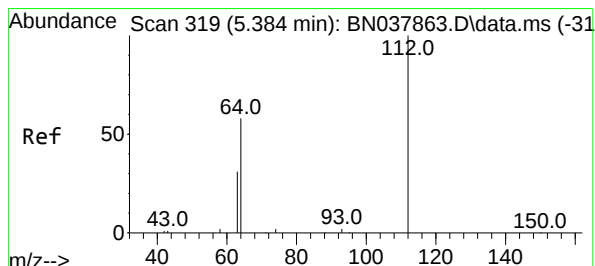
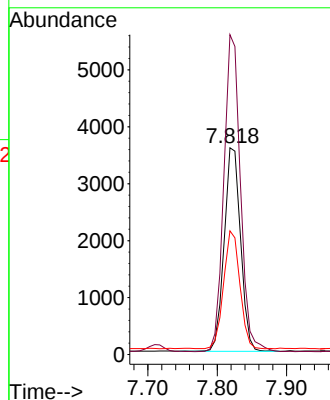
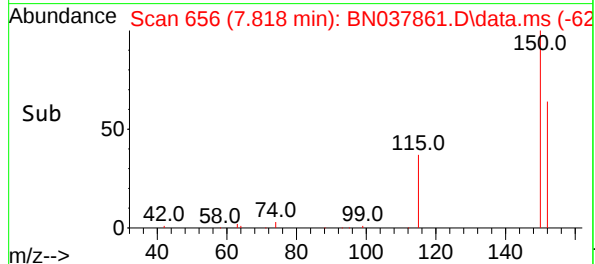


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.818 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

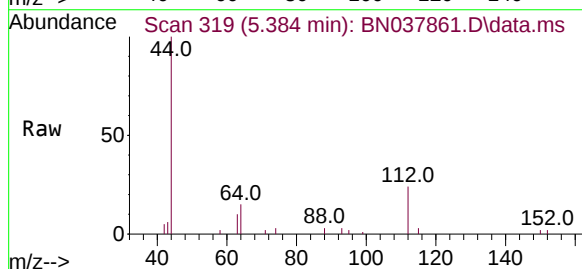
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BNA_N
ClientSampleId :
SSTDICC0.1



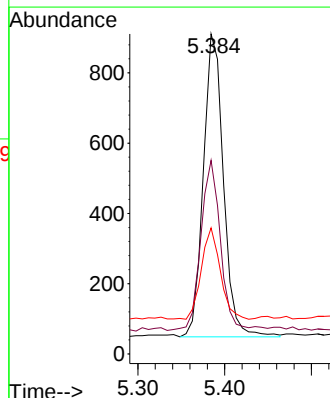
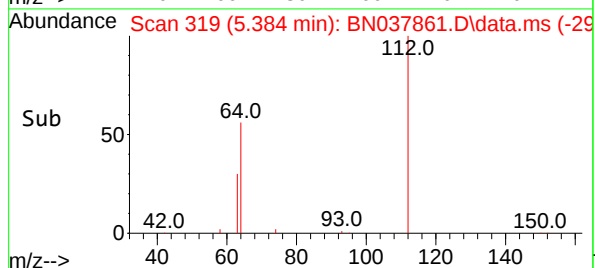
Tgt Ion:152 Resp: 5856
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 59.9 47.4 71.0

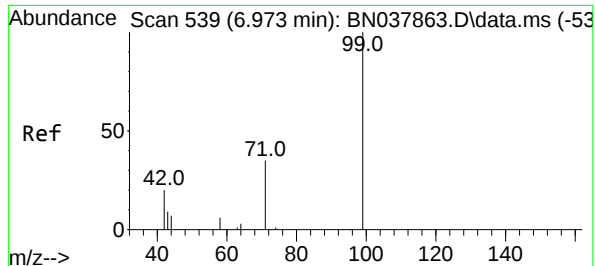


#4
2-Fluorophenol
Concen: 0.103 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13



Tgt Ion:112 Resp: 1382
Ion Ratio Lower Upper
112 100
64 55.3 44.6 66.8
63 28.7 24.9 37.3

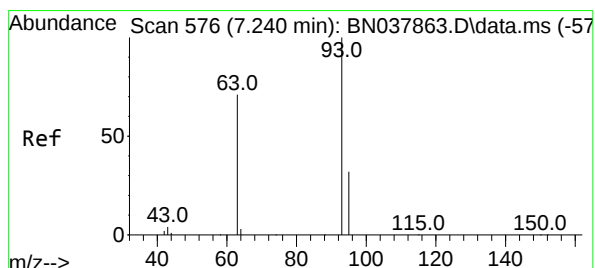
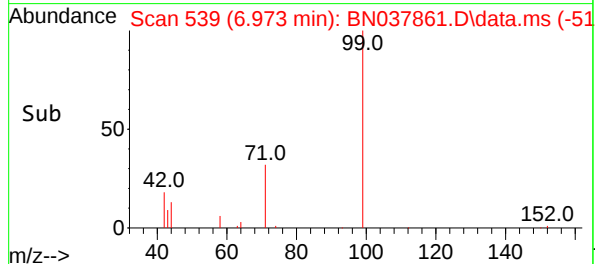
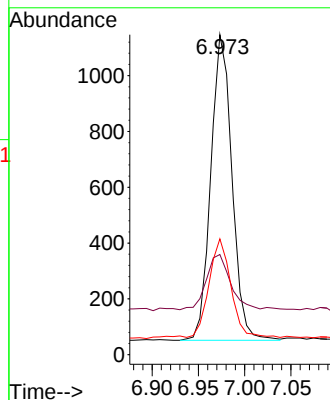
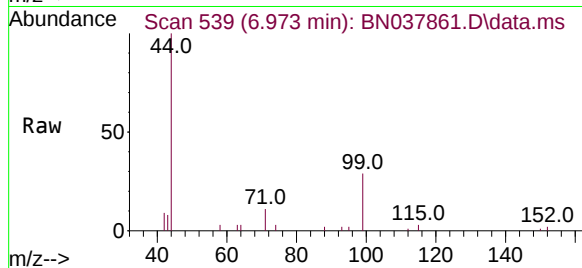




#5
Phenol-d6
Concen: 0.099 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

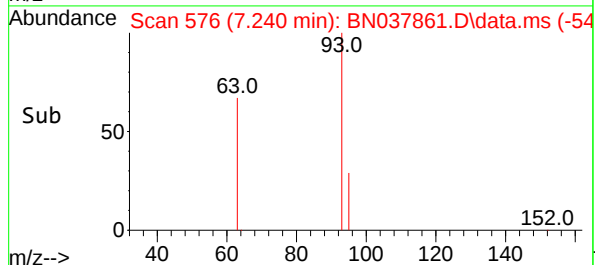
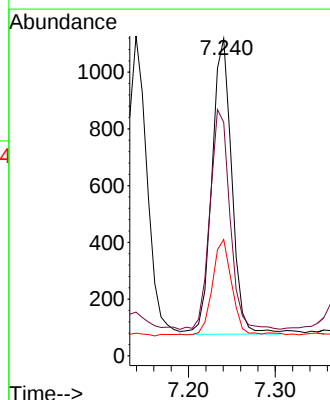
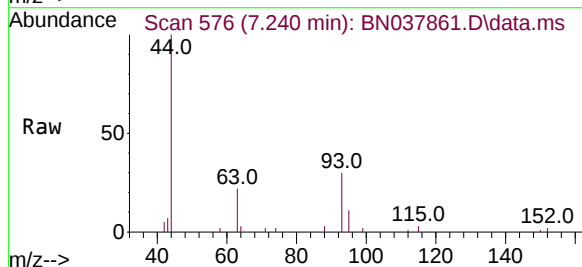
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

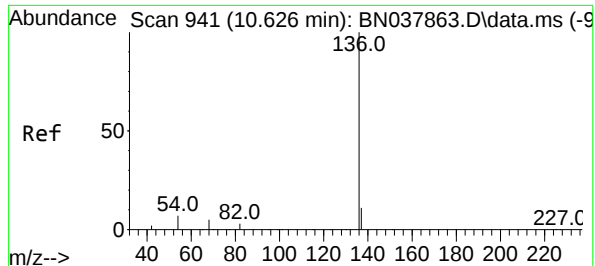
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.102 ng
RT: 7.240 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.2	60.1	90.1
95	31.0	25.4	38.2

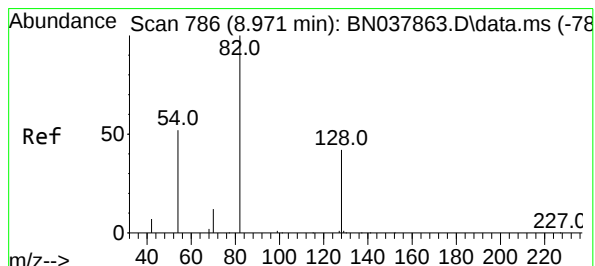
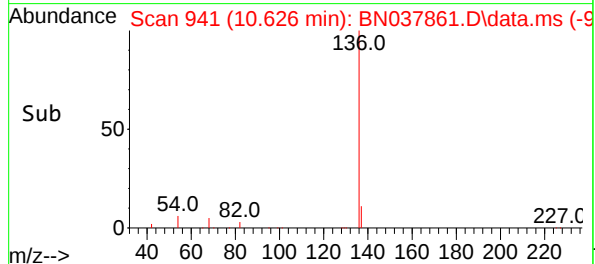
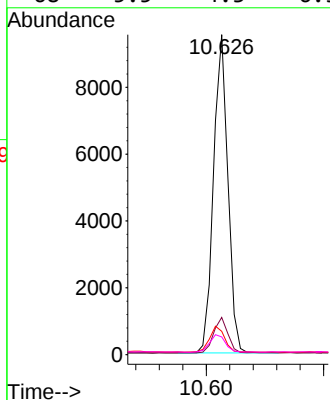
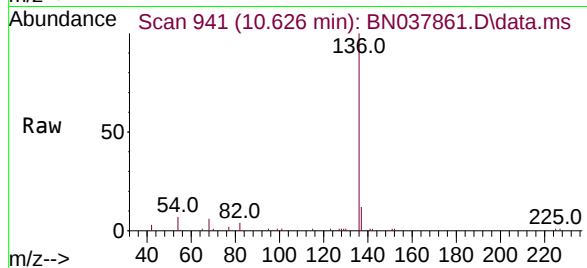




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

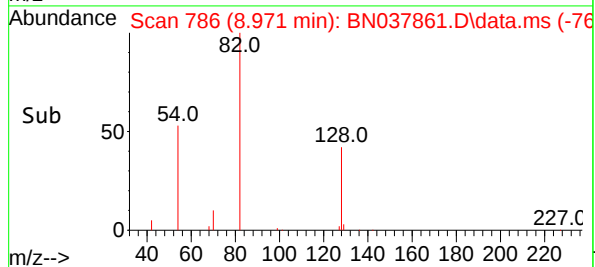
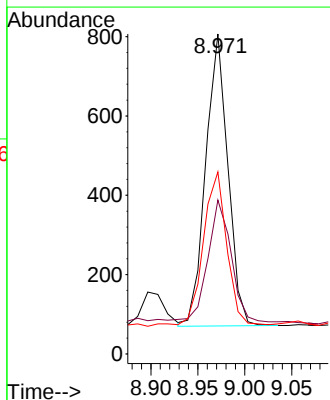
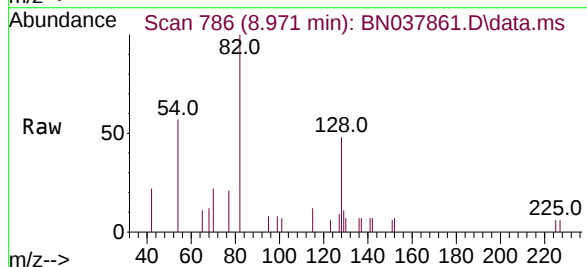
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

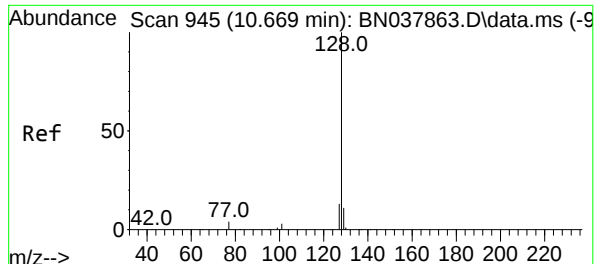
Tgt Ion:	136	Resp:	16223
Ion Ratio	Lower	Upper	
136	100		
137	11.6	9.0	13.4
54	7.3	5.8	8.8
68	5.5	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.098 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:	82	Resp:	1212
Ion Ratio	Lower	Upper	
82	100		
128	48.1	34.8	52.2
54	56.9	42.2	63.2

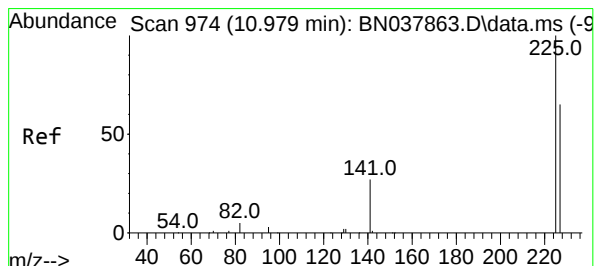
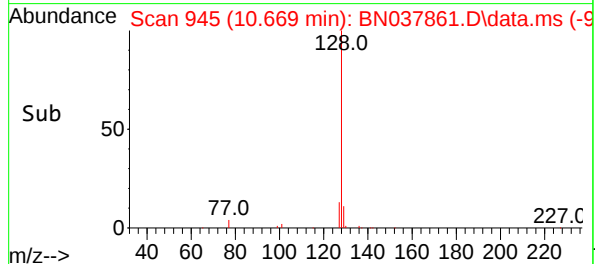
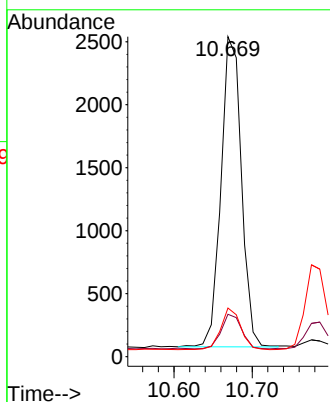
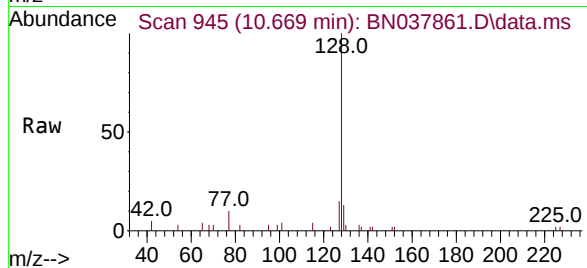




#9
Naphthalene
Concen: 0.100 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

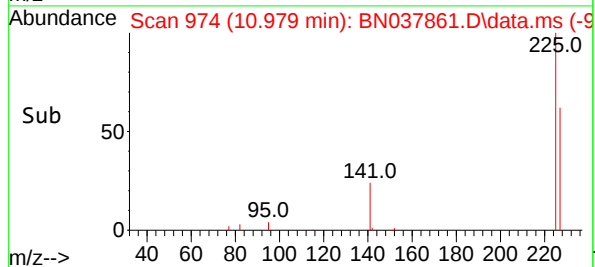
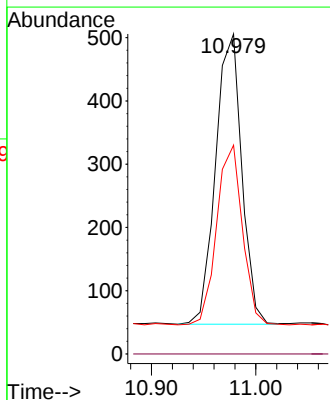
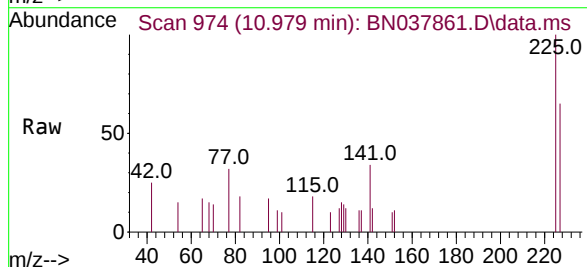
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

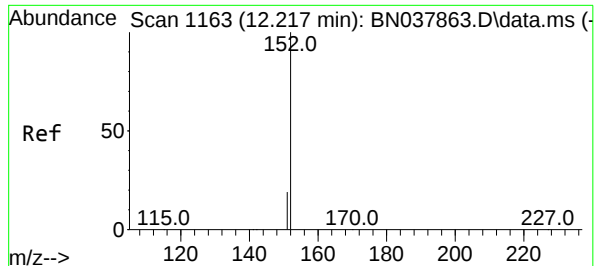
Tgt Ion:128 Resp: 4483
Ion Ratio Lower Upper
128 100
129 13.2 9.2 13.8
127 15.2 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.105 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:225 Resp: 802
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 60.8 51.4 77.2

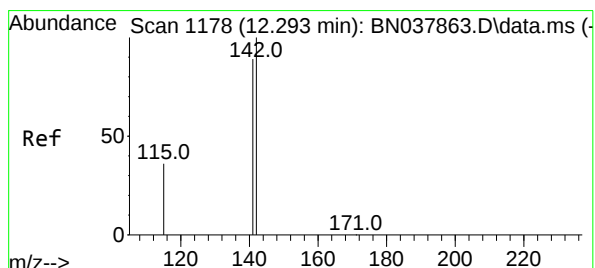
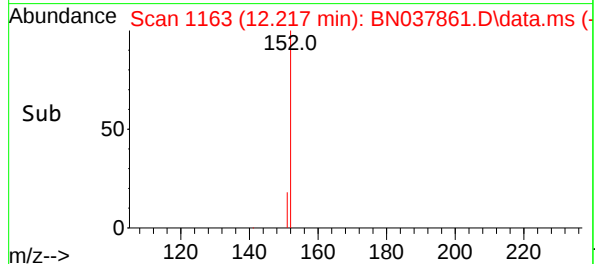
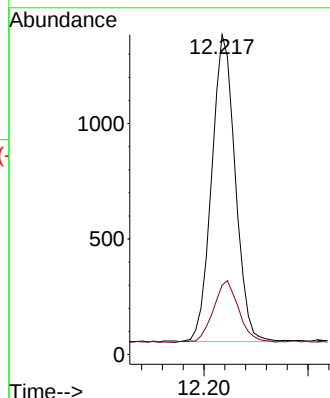
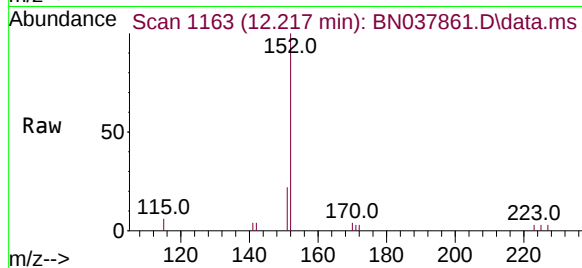




#11
2-Methylnaphthalene-d10
Concen: 0.093 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

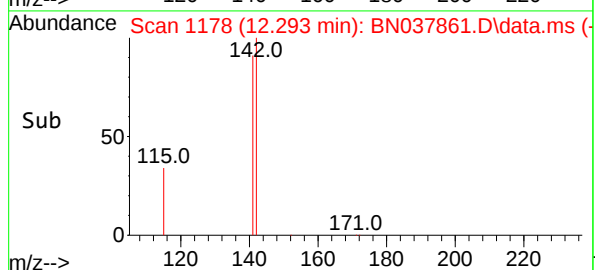
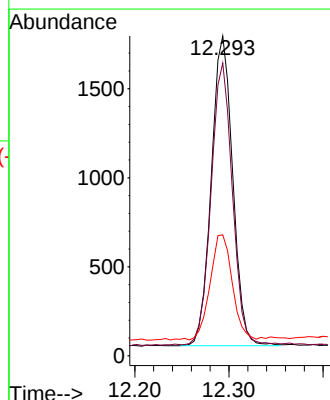
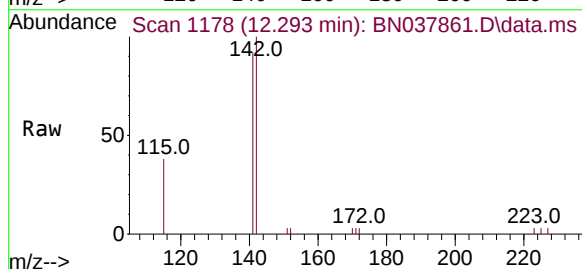
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

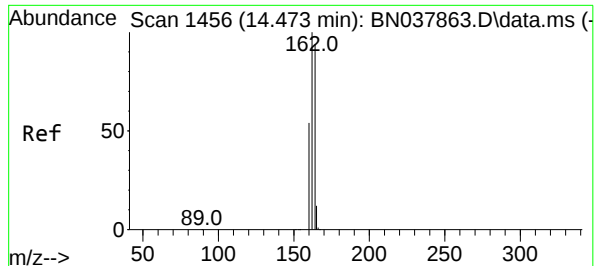
Tgt Ion:152 Resp: 2089
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.094 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:142 Resp: 2749
Ion Ratio Lower Upper
142 100
141 91.5 71.2 106.8
115 37.8 29.7 44.5

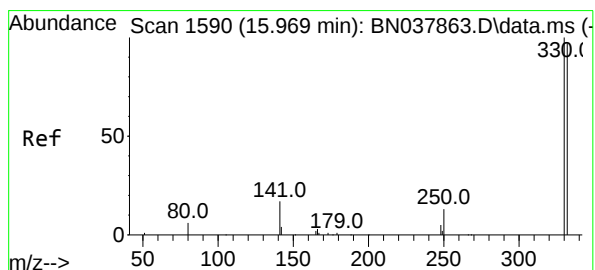
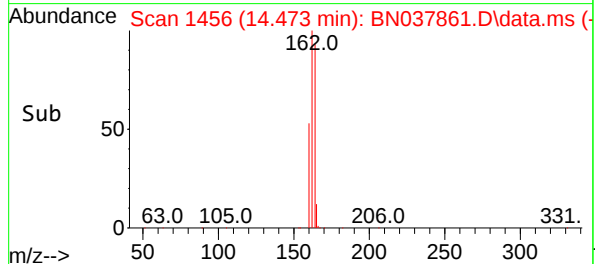
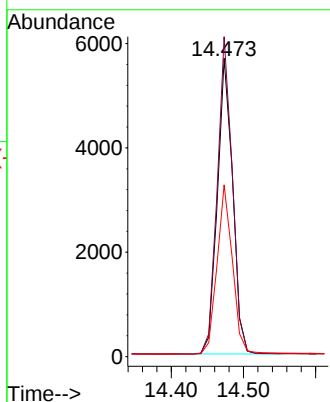
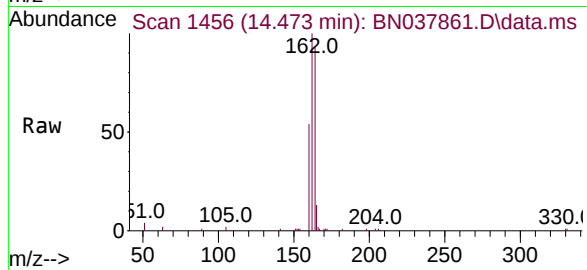




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

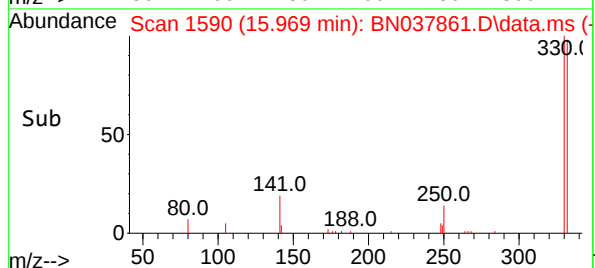
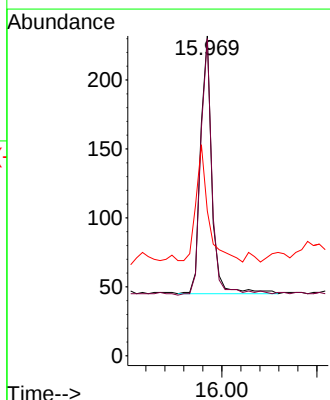
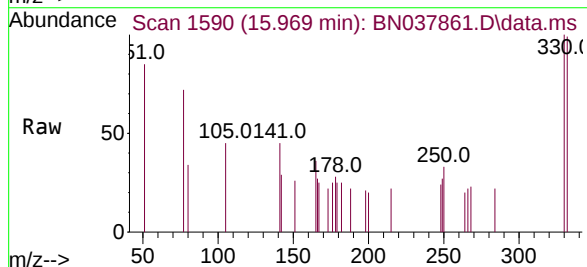
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

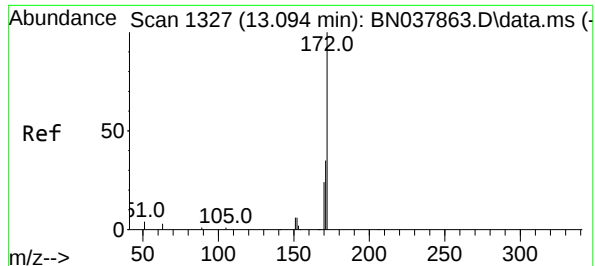
Tgt Ion:164 Resp: 8379
Ion Ratio Lower Upper
164 100
162 107.3 84.8 127.2
160 57.6 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.091 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:330 Resp: 309
Ion Ratio Lower Upper
330 100
332 100.3 77.2 115.8
141 50.8 37.2 55.8

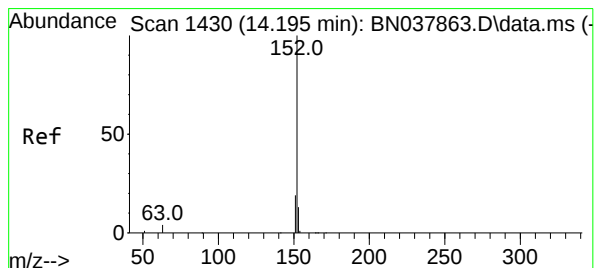
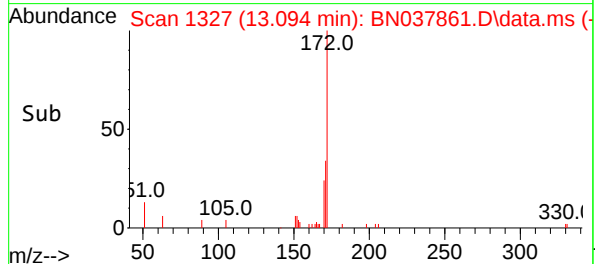
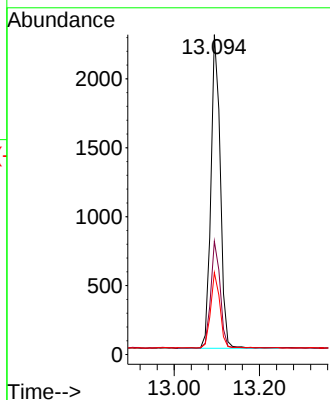
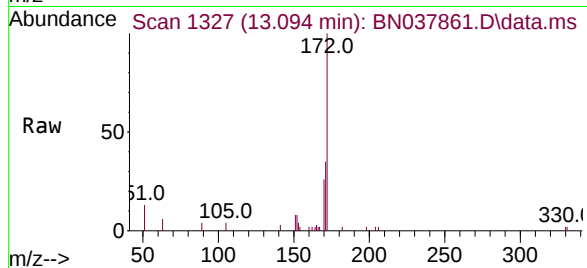




#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

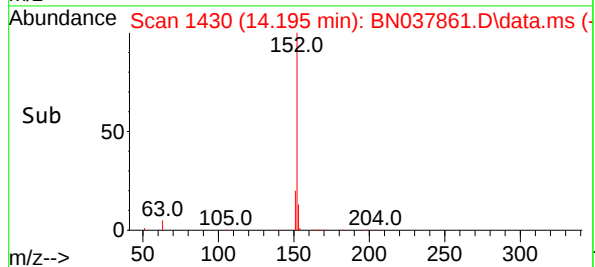
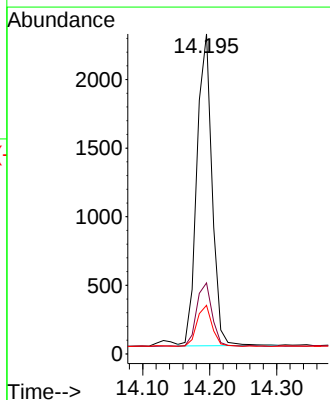
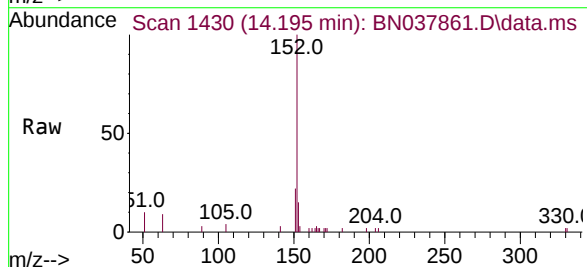
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

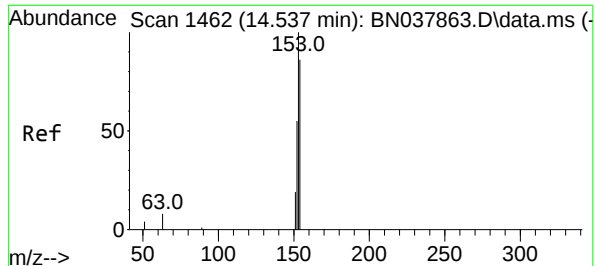
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	25.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.093 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.2	15.8	23.8
153	13.2	10.5	15.7

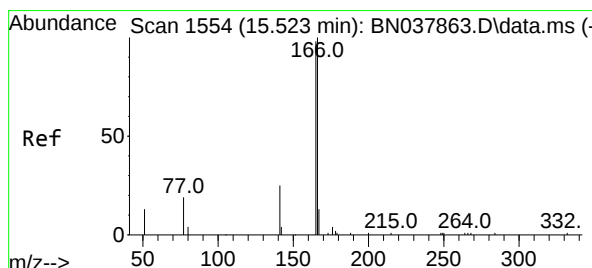
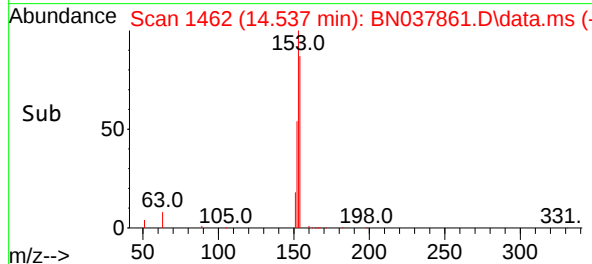
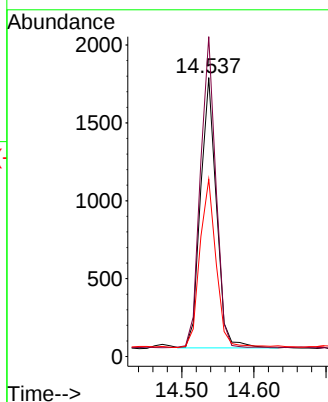
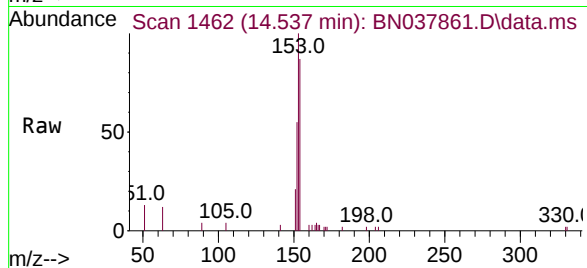




#17
Acenaphthene
Concen: 0.098 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

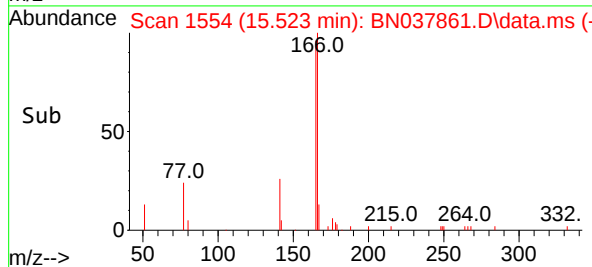
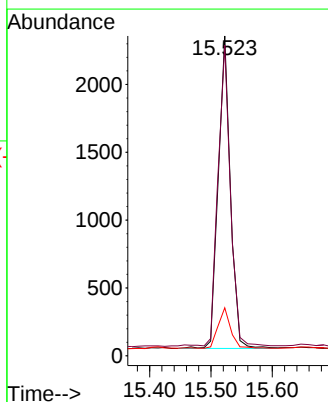
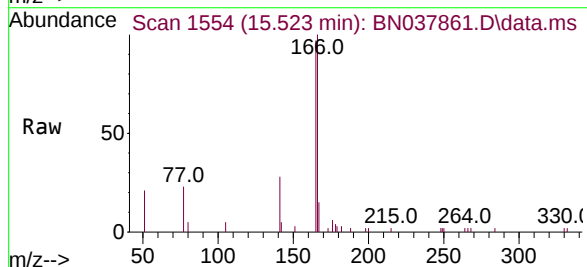
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

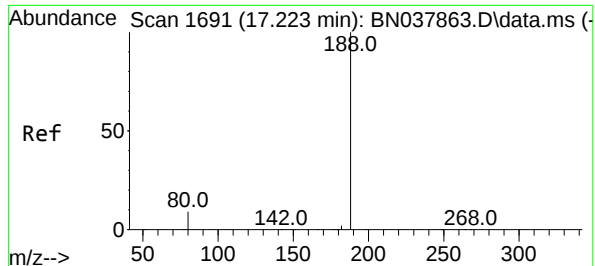
Tgt Ion	154	Resp	2644
Ion Ratio	Lower	Upper	
154	100		
153	111.7	90.5	135.7
152	64.5	51.8	77.8



#18
Fluorene
Concen: 0.093 ng
RT: 15.523 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	166	Resp	3048
Ion Ratio	Lower	Upper	
166	100		
165	100.0	79.0	118.4
167	13.7	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

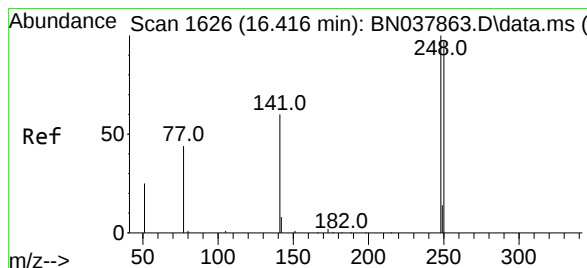
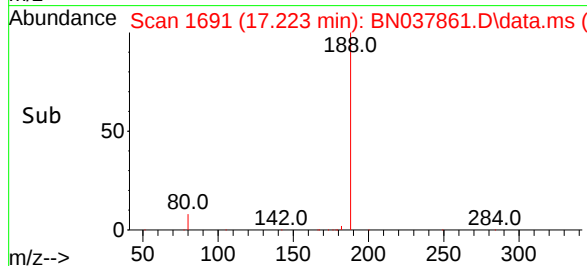
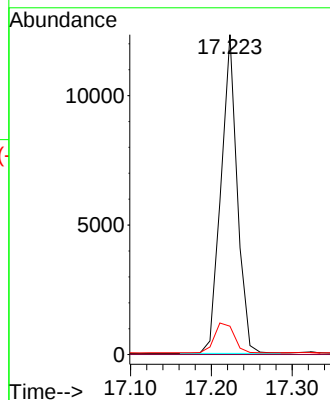
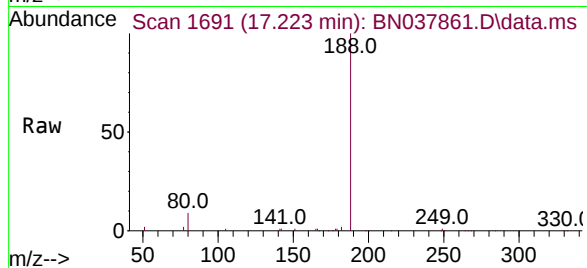
Tgt Ion:188 Resp: 17197

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 7.6 11.4



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

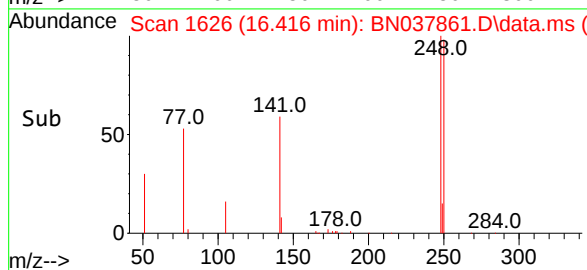
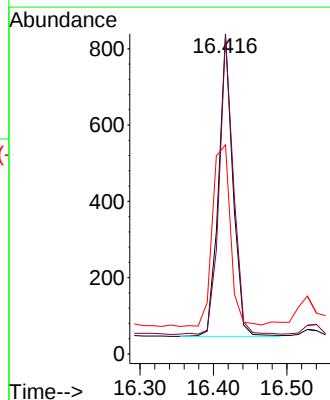
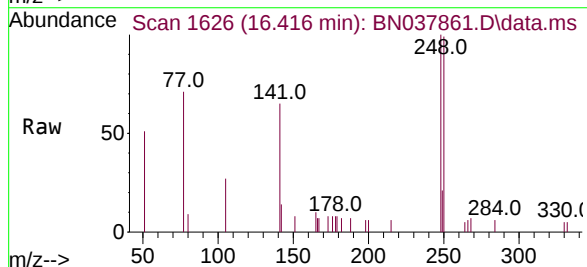
Tgt Ion:248 Resp: 1084

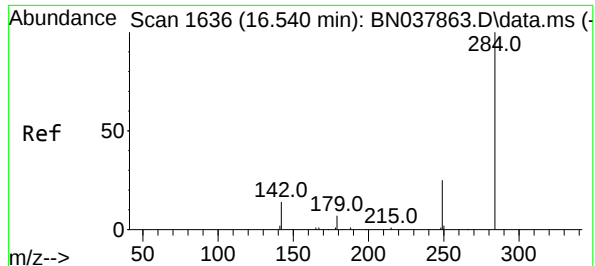
Ion Ratio Lower Upper

248 100

250 99.3 77.6 116.4

141 65.3 48.8 73.2





#22

Hexachlorobenzene

Concen: 0.100 ng

RT: 16.540 min Scan# 1636

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

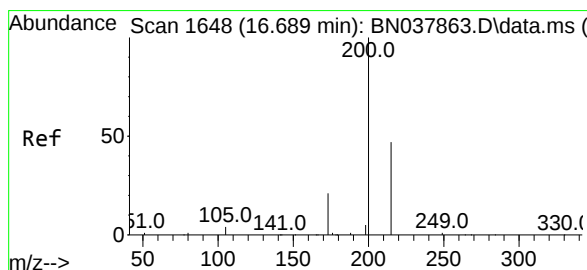
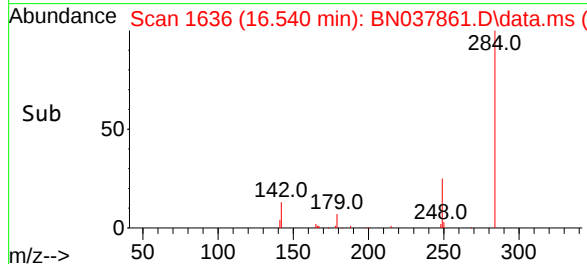
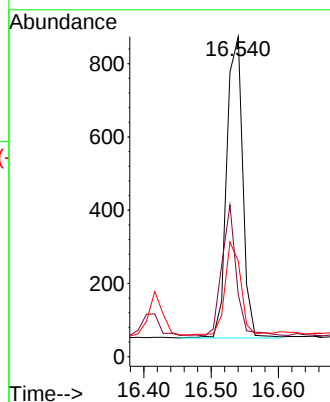
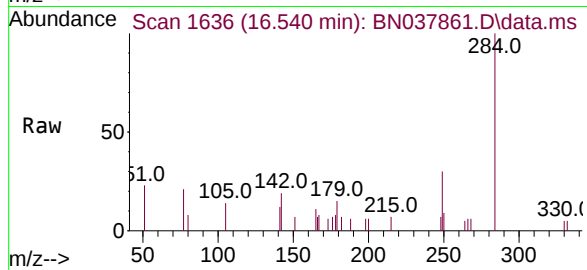
Tgt Ion:284 Resp: 1361

Ion Ratio Lower Upper

284 100

142 38.9 30.9 46.3

249 30.6 23.9 35.9



#23

Atrazine

Concen: 0.090 ng

RT: 16.689 min Scan# 1648

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

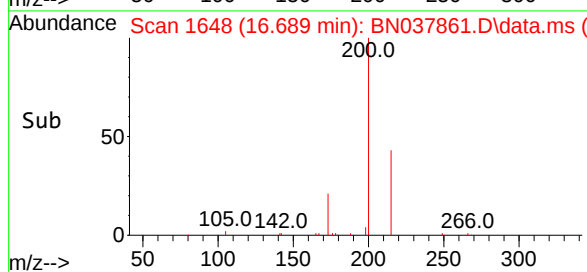
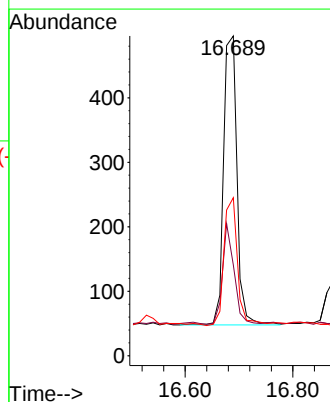
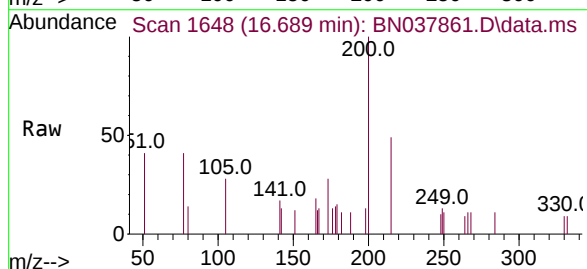
Tgt Ion:200 Resp: 772

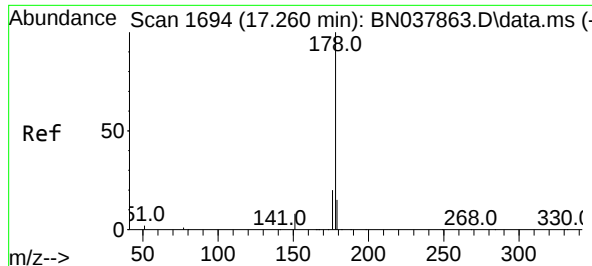
Ion Ratio Lower Upper

200 100

173 28.4 18.3 27.5#

215 49.4 38.6 58.0

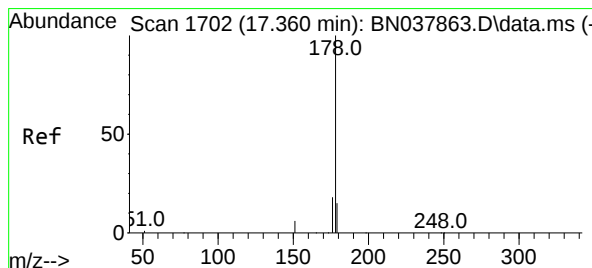
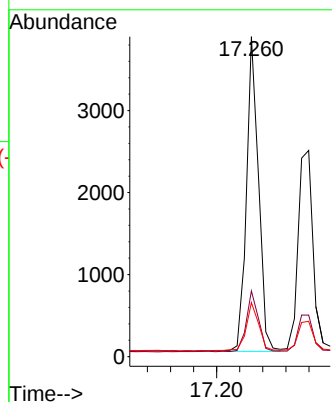
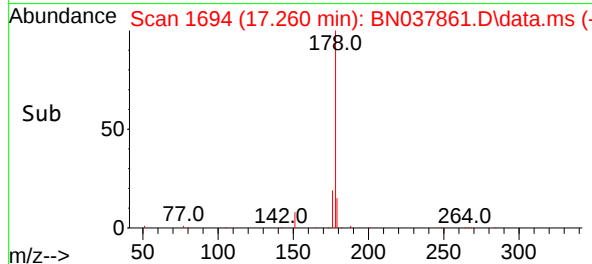
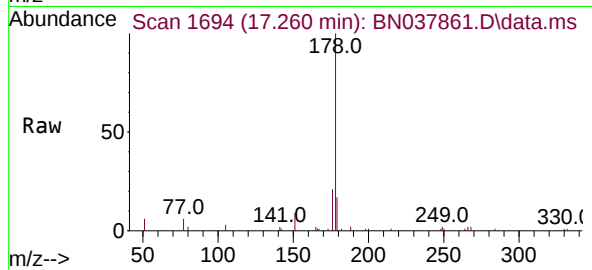




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

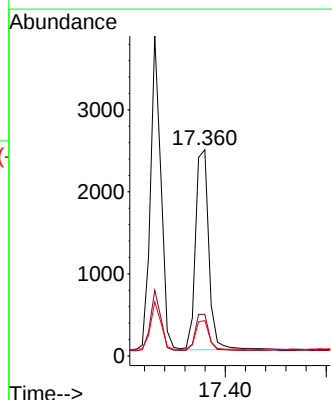
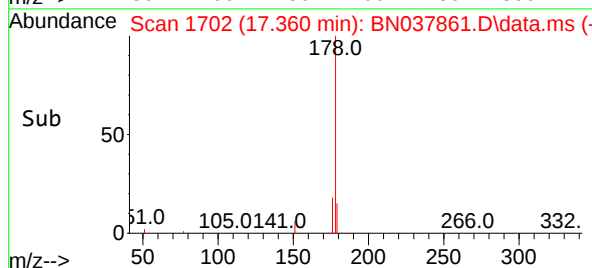
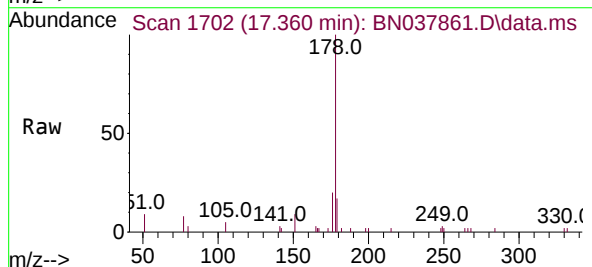
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

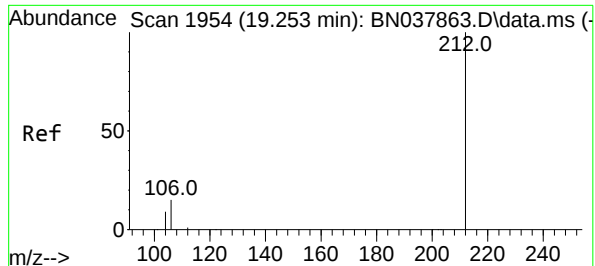
Tgt Ion:178 Resp: 5595
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 16.2 12.3 18.5



#26
Anthracene
Concen: 0.091 ng
RT: 17.360 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:178 Resp: 4446
Ion Ratio Lower Upper
178 100
176 18.5 15.0 22.4
179 14.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.087 ng

RT: 19.253 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

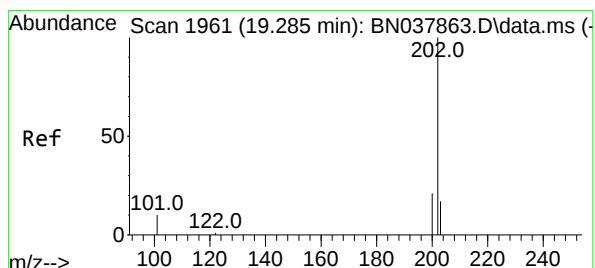
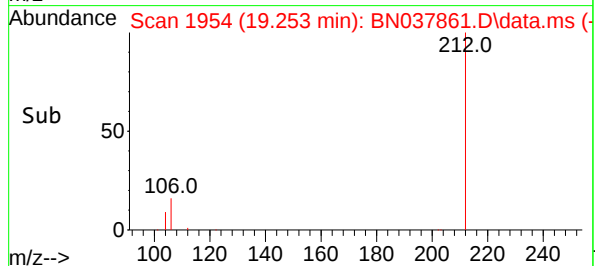
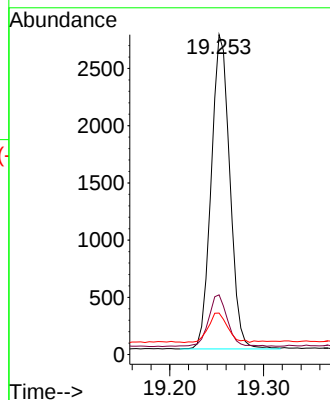
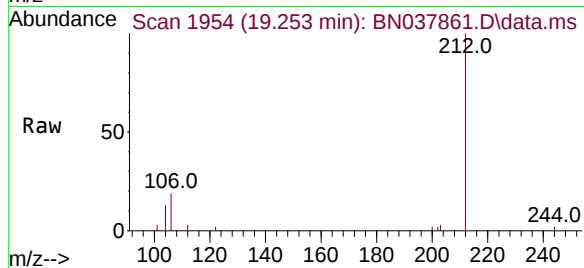
Tgt Ion:212 Resp: 3783

Ion Ratio Lower Upper

212 100

106 16.8 12.6 19.0

104 9.7 7.4 11.0



#28

Fluoranthene

Concen: 0.088 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

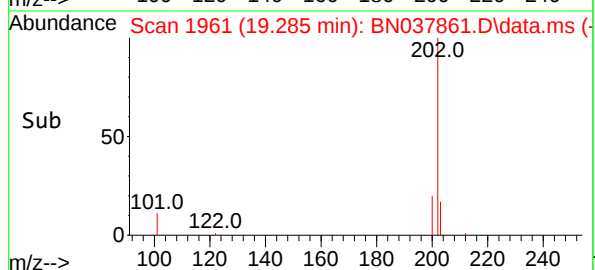
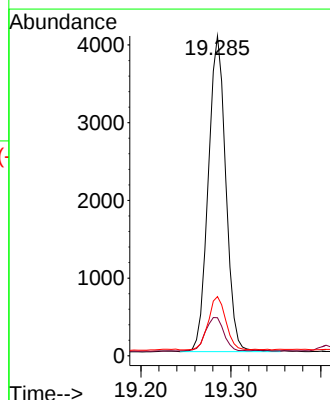
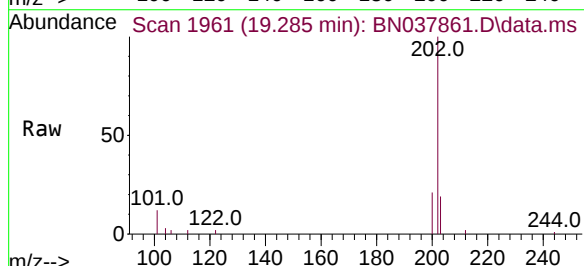
Tgt Ion:202 Resp: 5493

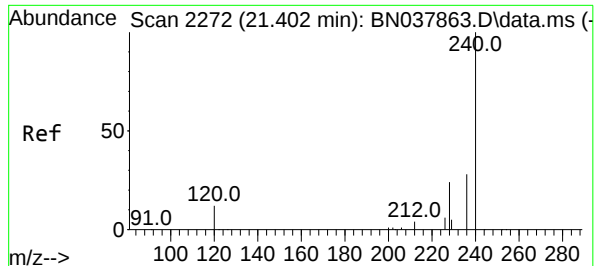
Ion Ratio Lower Upper

202 100

101 11.3 9.3 13.9

203 16.8 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

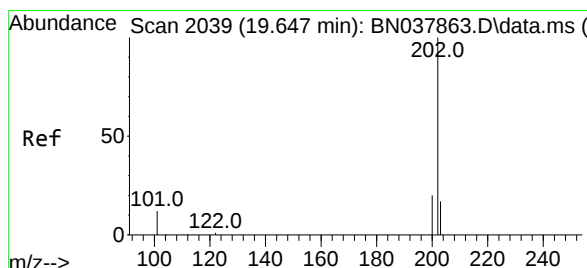
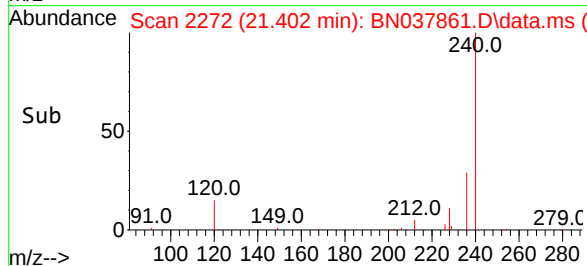
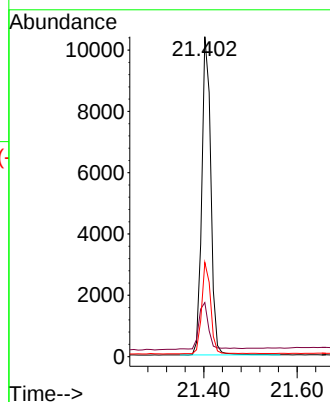
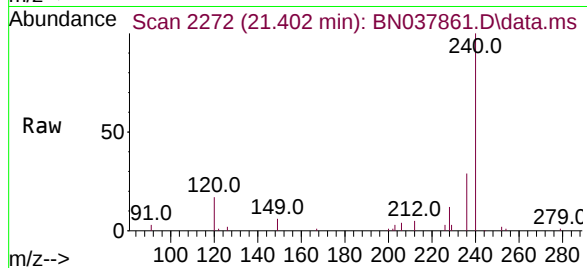
Tgt Ion:240 Resp: 13854

Ion Ratio Lower Upper

240 100

120 16.9 11.4 17.2

236 29.4 23.0 34.6



#30

Pyrene

Concen: 0.100 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

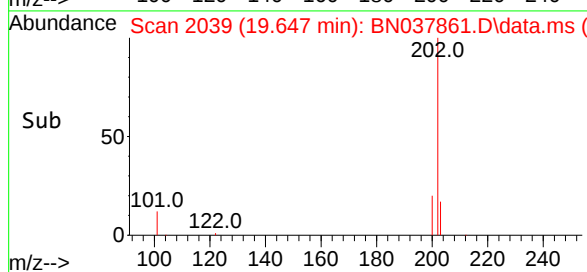
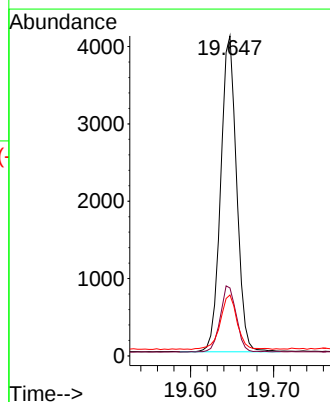
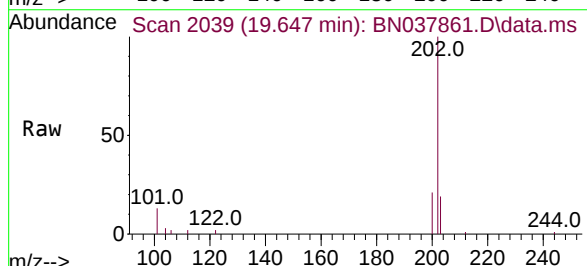
Tgt Ion:202 Resp: 5458

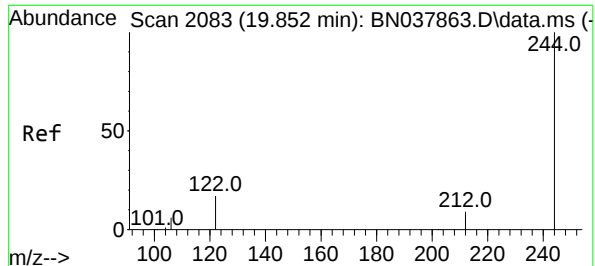
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

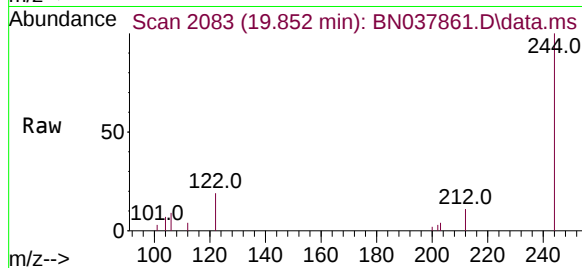
203 18.2 14.2 21.4



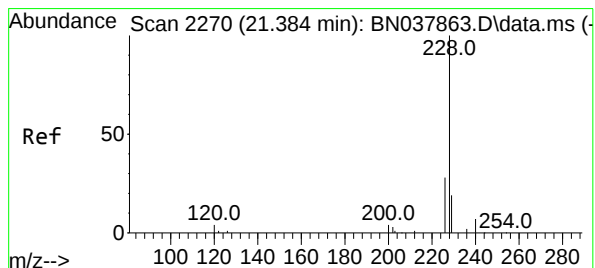
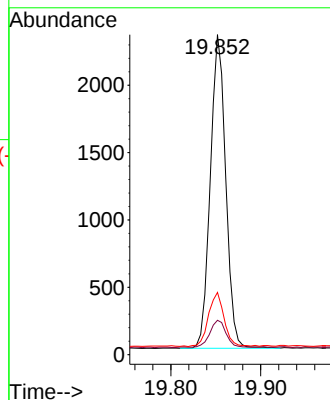


#31
Terphenyl-d14
Concen: 0.100 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

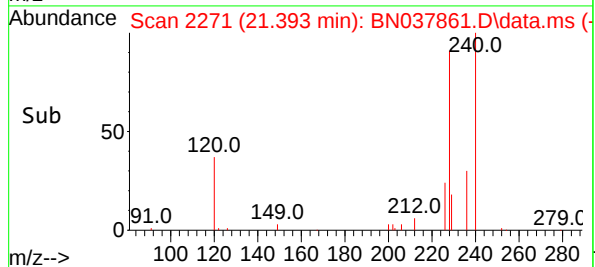
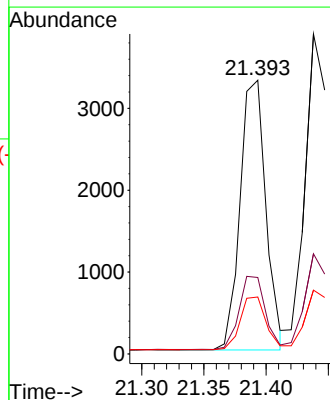
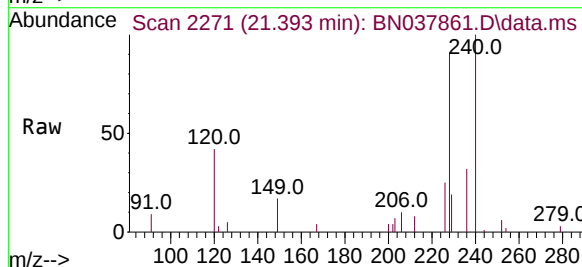


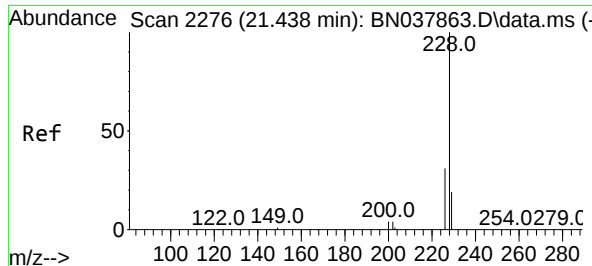
Tgt Ion:244 Resp: 2766
Ion Ratio Lower Upper
244 100
212 10.7 7.6 11.4
122 19.4 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.098 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion:228 Resp: 4766
Ion Ratio Lower Upper
228 100
226 27.9 22.6 33.8
229 20.8 15.6 23.4

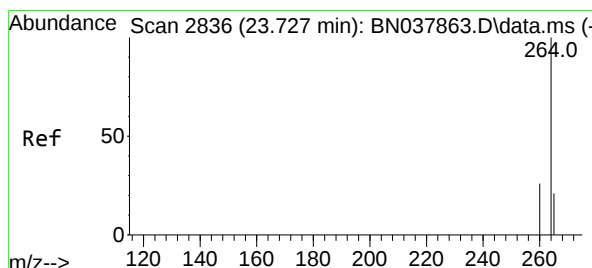
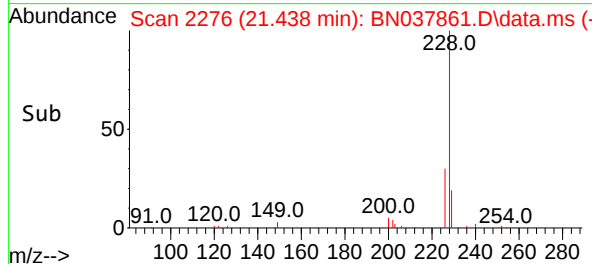
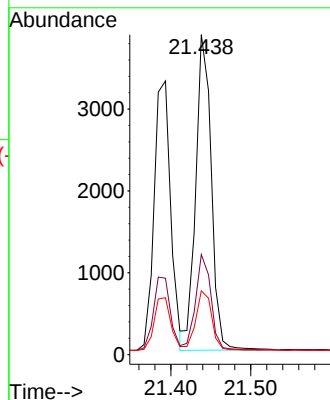
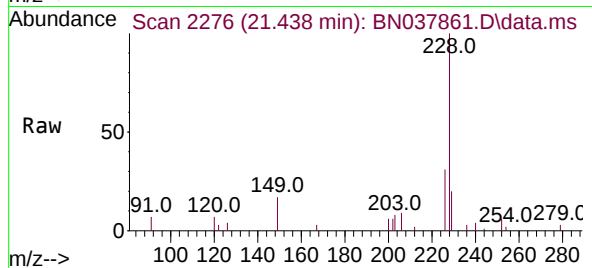




#33
Chrysene
Concen: 0.100 ng
RT: 21.438 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

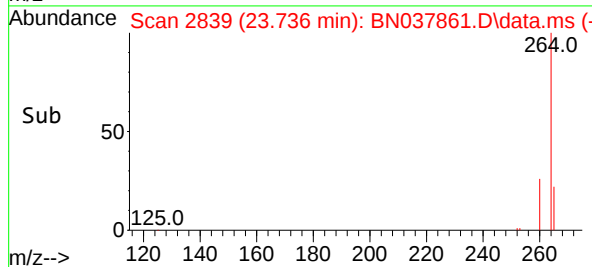
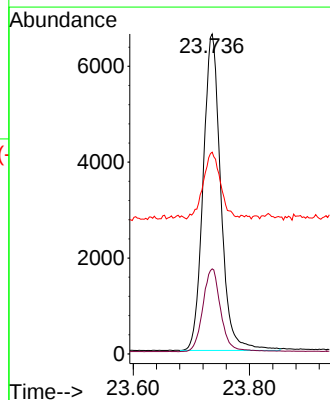
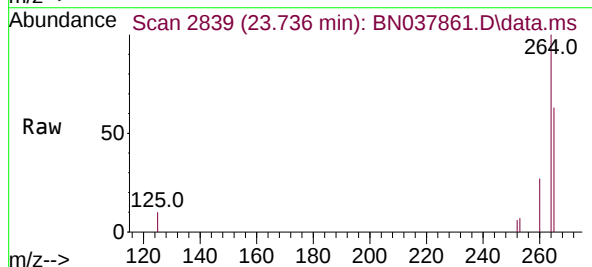
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

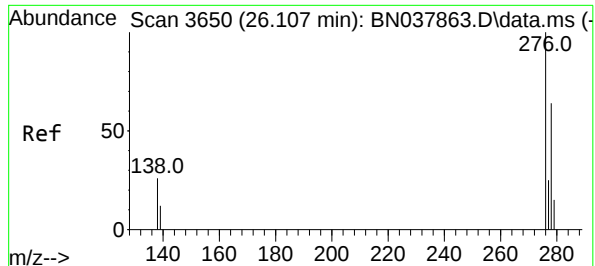
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.6	37.0
229	19.9	15.6	23.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037861.D
Acq: 23 Sep 2025 12:13

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.6	21.5	32.3
265	63.0	53.8	80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.094 ng

RT: 26.113 min Scan# 3652

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

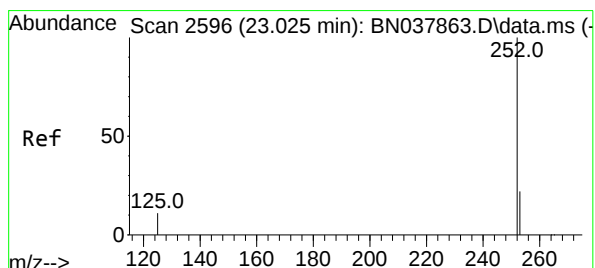
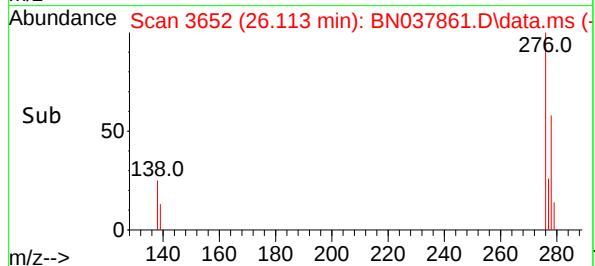
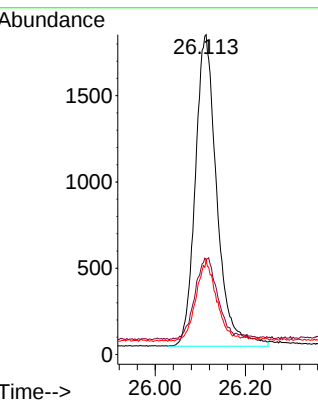
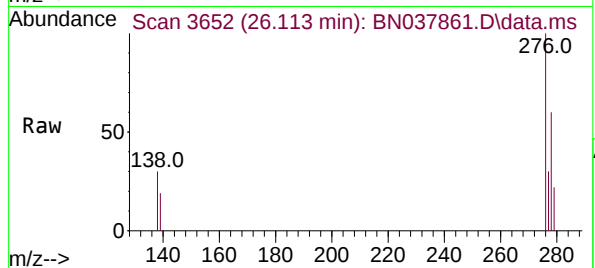
Tgt Ion:276 Resp: 5972

Ion Ratio Lower Upper

276 100

138 27.9 21.4 32.0

277 24.6 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

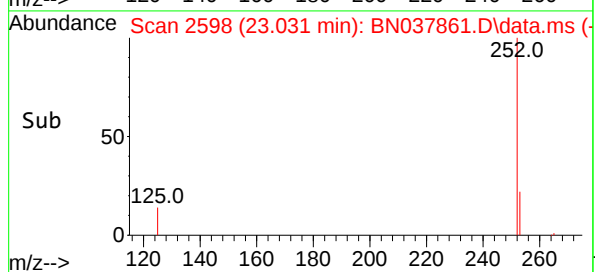
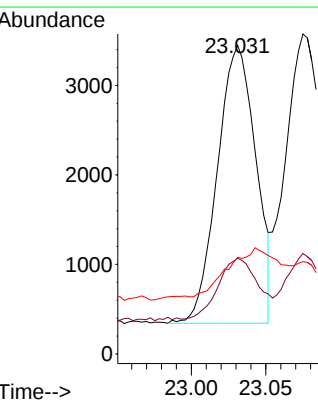
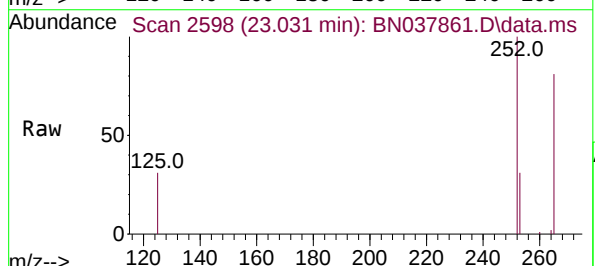
Tgt Ion:252 Resp: 5567

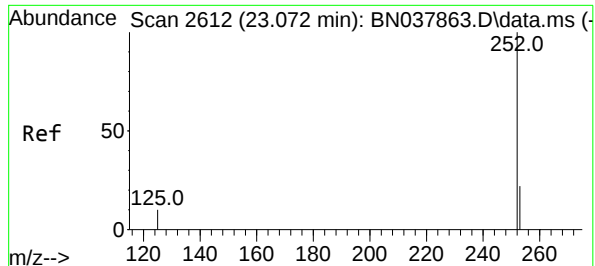
Ion Ratio Lower Upper

252 100

253 31.0 19.4 29.0#

125 31.3 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 23.075 min Scan# 2612

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

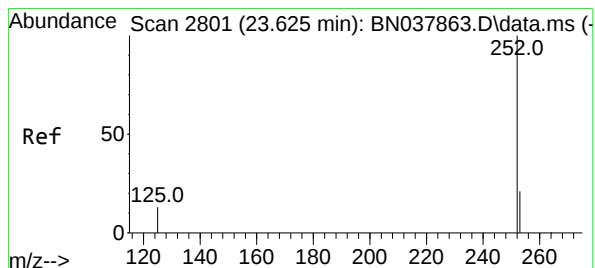
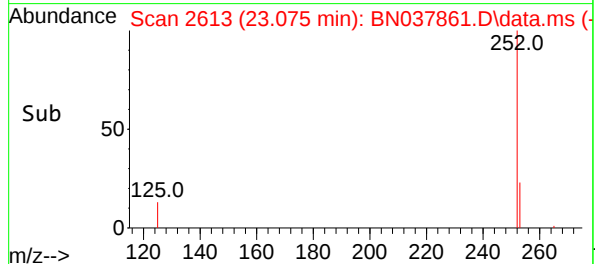
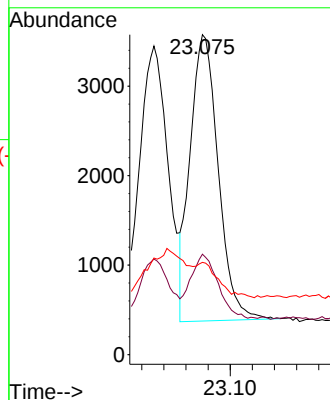
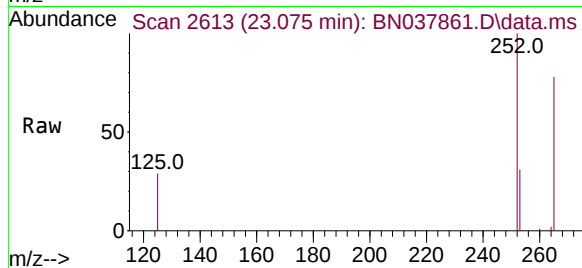
Tgt Ion:252 Resp: 5642

Ion Ratio Lower Upper

252 100

253 31.4 19.5 29.3#

125 28.8 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

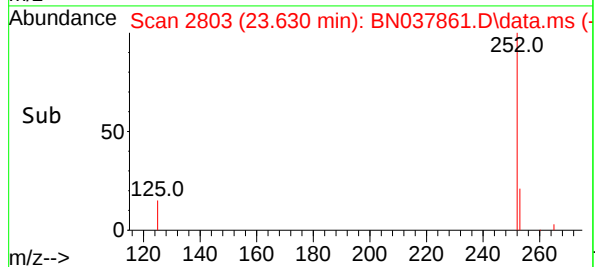
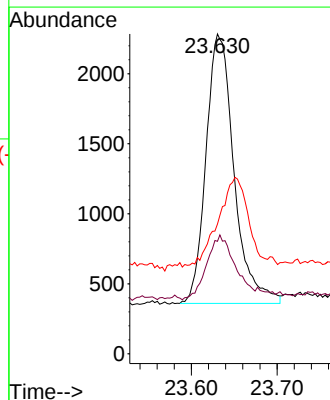
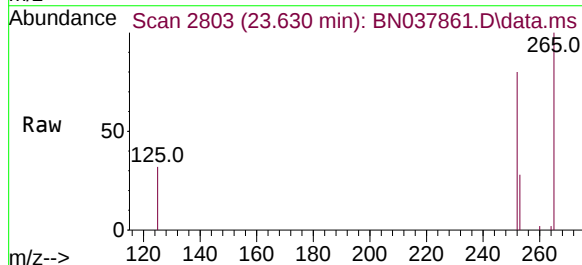
Tgt Ion:252 Resp: 4368

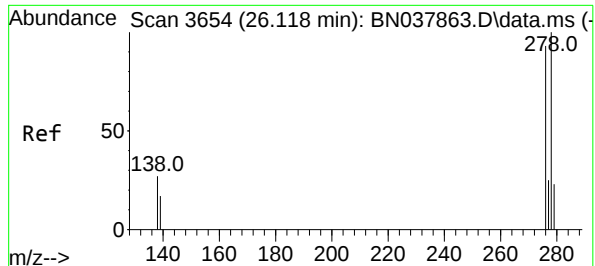
Ion Ratio Lower Upper

252 100

253 35.2 20.6 30.8#

125 40.6 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.127 min Scan# 30

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

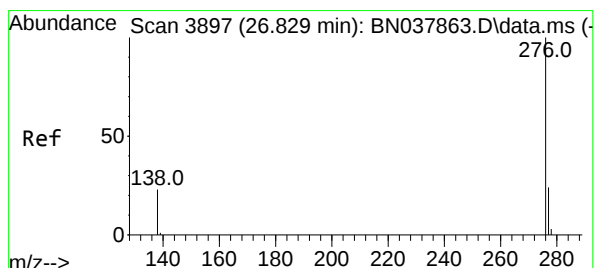
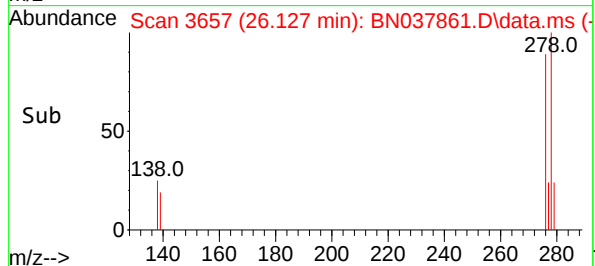
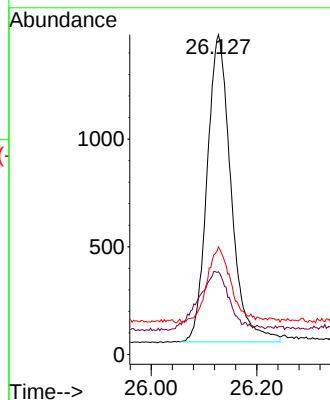
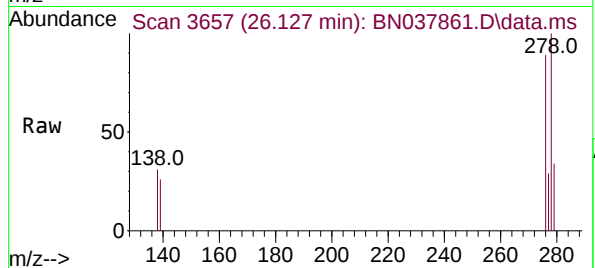
Tgt Ion:278 Resp: 4476

Ion Ratio Lower Upper

278 100

139 25.9 15.4 23.2#

279 33.7 20.8 31.2#



#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.832 min Scan# 3898

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

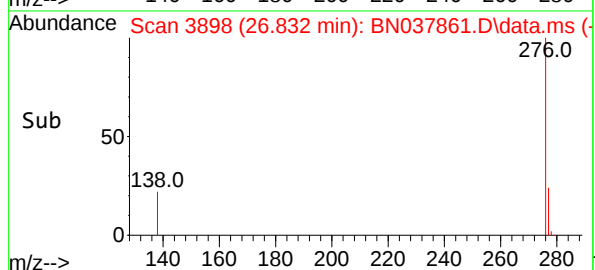
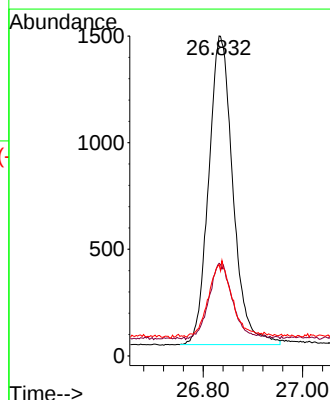
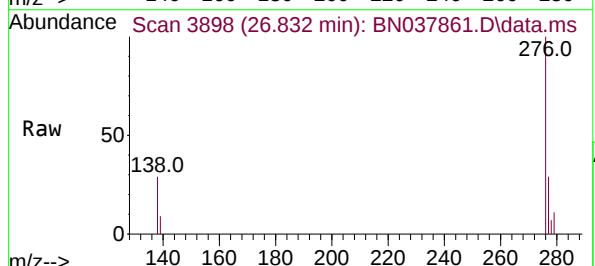
Tgt Ion:276 Resp: 4900

Ion Ratio Lower Upper

276 100

277 28.9 20.2 30.4

138 28.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037862.D
 Acq On : 23 Sep 2025 12:49
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Sep 23 16:21:29 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

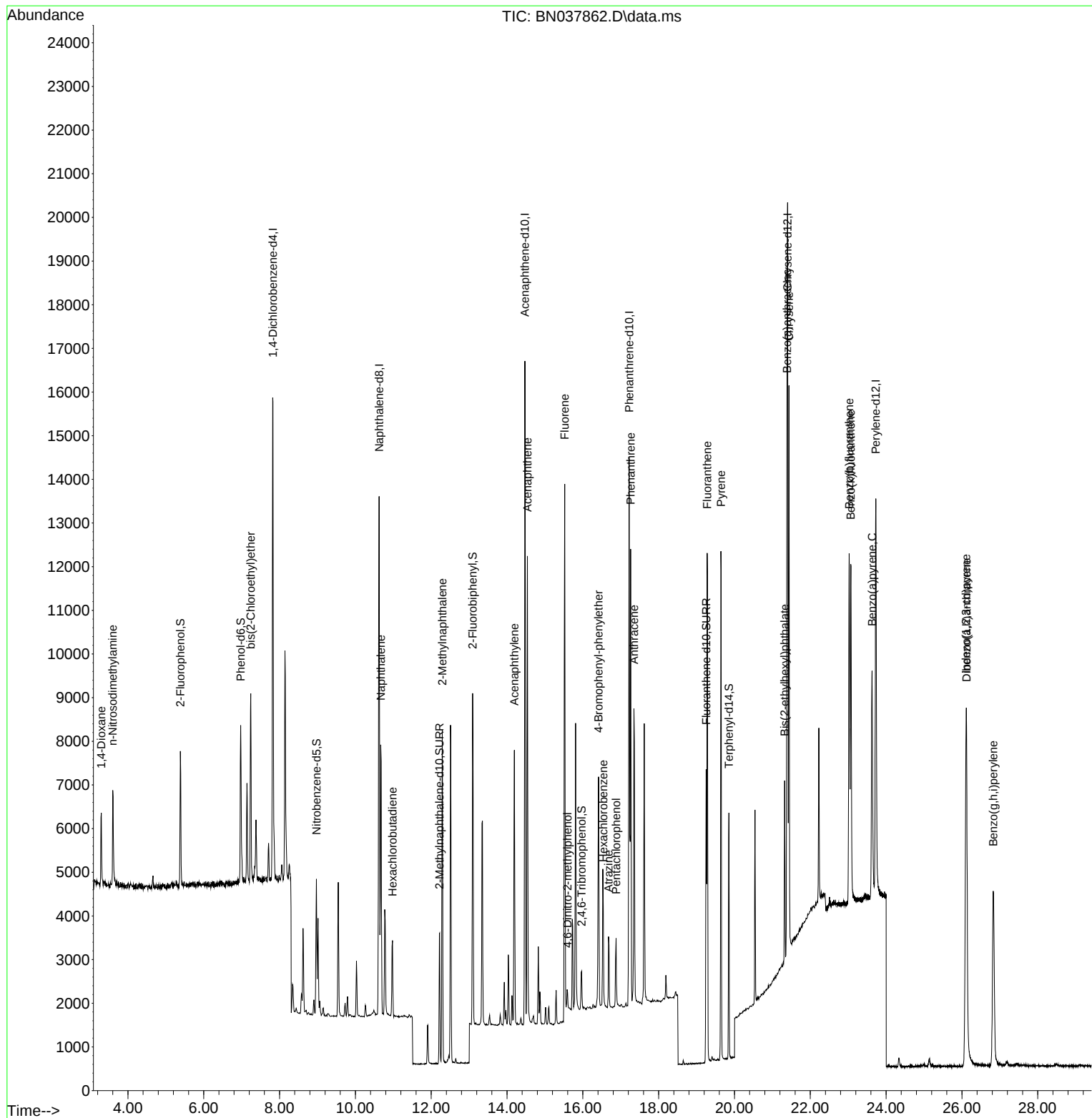
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.826	152	5544	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15739	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8069	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15912	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13158	0.400	ng	0.00
35) Perylene-d12	23.730	264	12974	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	2553	0.202	ng	0.00
5) Phenol-d6	6.973	99	3326	0.200	ng	0.00
8) Nitrobenzene-d5	8.971	82	2278	0.190	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	4078	0.187	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	573	0.176	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	6579	0.199	ng	0.00
27) Fluoranthene-d10	19.253	212	7304	0.182	ng	0.00
31) Terphenyl-d14	19.852	244	5201	0.198	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	1144	0.203	ng	97
3) n-Nitrosodimethylamine	3.601	42	1500	0.200	ng	# 94
6) bis(2-Chloroethyl)ether	7.241	93	3039	0.197	ng	98
9) Naphthalene	10.669	128	8573	0.198	ng	99
10) Hexachlorobutadiene	10.979	225	1450	0.196	ng	# 99
12) 2-Methylnaphthalene	12.293	142	5361	0.189	ng	100
16) Acenaphthylene	14.195	152	6943	0.190	ng	99
17) Acenaphthene	14.537	154	4963	0.190	ng	98
18) Fluorene	15.523	166	5870	0.186	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	325	0.230	ng	# 64
21) 4-Bromophenyl-phenylether	16.416	248	1965	0.190	ng	97
22) Hexachlorobenzene	16.540	284	2483	0.198	ng	99
23) Atrazine	16.677	200	1442	0.183	ng	# 89
24) Pentachlorophenol	16.876	266	804	0.186	ng	99
25) Phenanthrene	17.260	178	10109	0.193	ng	99
26) Anthracene	17.347	178	8235	0.181	ng	99
28) Fluoranthene	19.280	202	10466	0.181	ng	100
30) Pyrene	19.643	202	10528	0.203	ng	100
32) Benzo(a)anthracene	21.384	228	8943	0.194	ng	99
33) Chrysene	21.438	228	10042	0.202	ng	99
34) Bis(2-ethylhexyl)phtha...	21.322	149	3892	0.214	ng	# 100
36) Indeno(1,2,3-cd)pyrene	26.110	276	10845	0.183	ng	99
37) Benzo(b)fluoranthene	23.025	252	10420	0.186	ng	# 91
38) Benzo(k)fluoranthene	23.069	252	10290	0.183	ng	# 93
39) Benzo(a)pyrene	23.628	252	8405	0.190	ng	# 88
40) Dibenzo(a,h)anthracene	26.121	278	8321	0.180	ng	92
41) Benzo(g,h,i)perylene	26.826	276	8956	0.184	ng	97

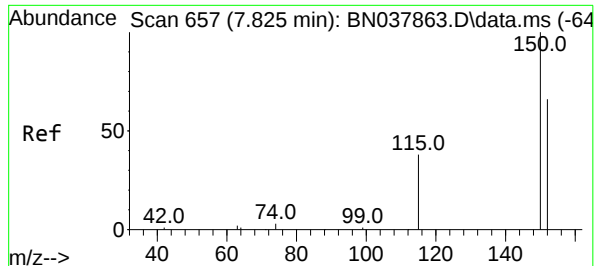
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037862.D
Acq On : 23 Sep 2025 12:49
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

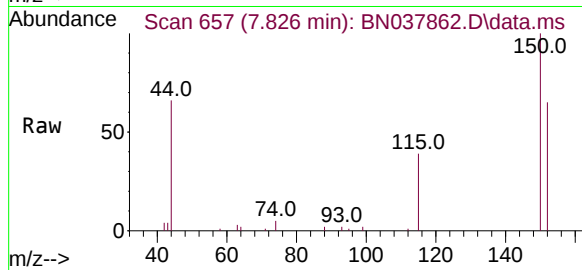
Quant Time: Sep 23 16:21:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration





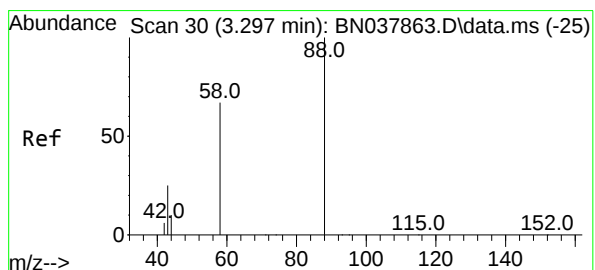
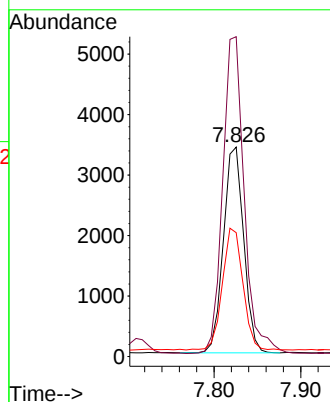
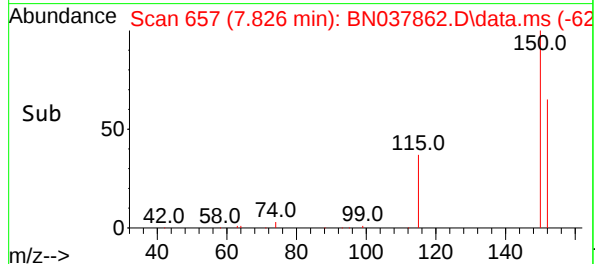
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.826 min Scan# 61
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

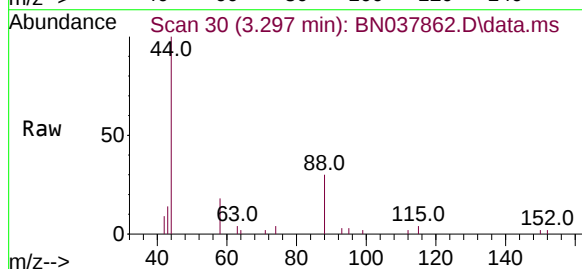


Tgt Ion: 152 Resp: 5544

Ion	Ratio	Lower	Upper
152	100		
150	152.7	121.0	181.4
115	59.1	47.4	71.0

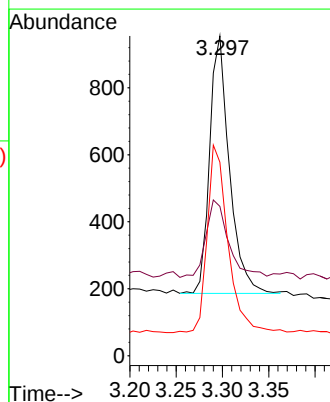
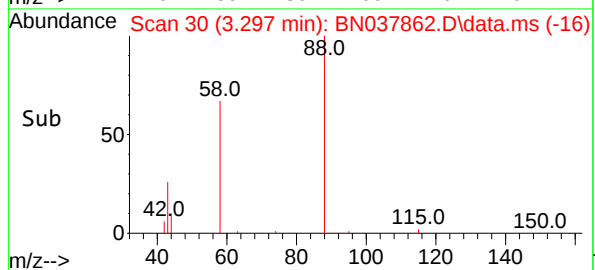


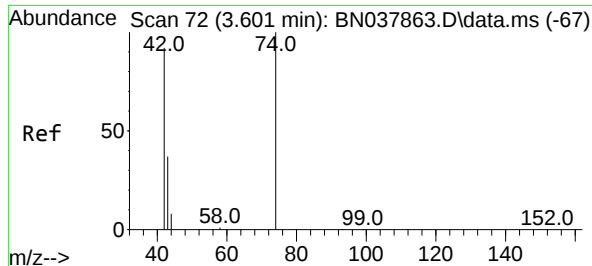
#2
1,4-Dioxane
Concen: 0.203 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49



Tgt Ion: 88 Resp: 1144

Ion	Ratio	Lower	Upper
88	100		
43	34.1	26.6	39.8
58	76.4	58.9	88.3

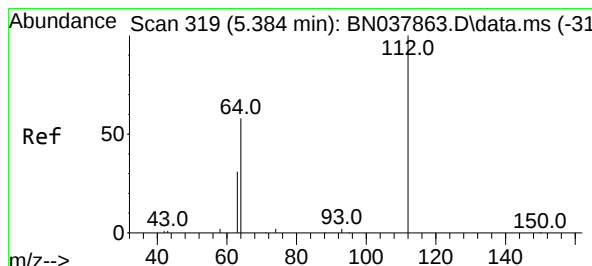
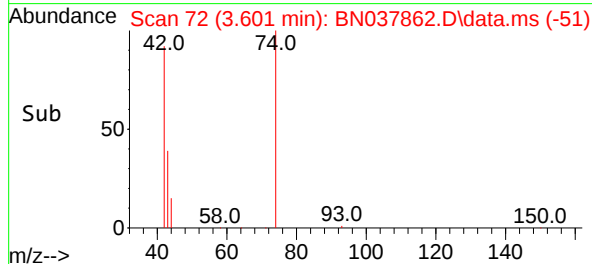
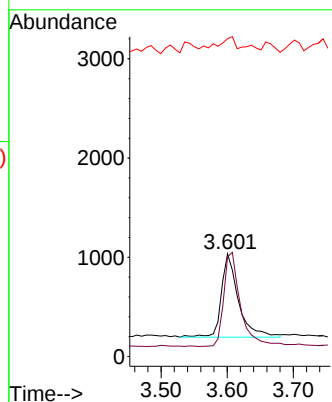
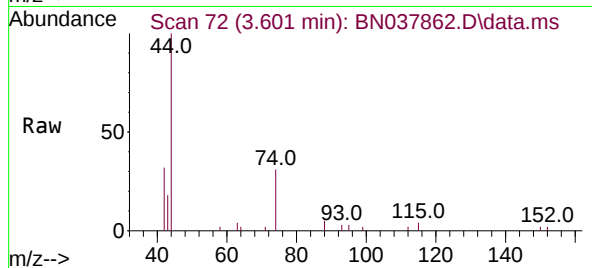




#3
n-Nitrosodimethylamine
Concen: 0.200 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

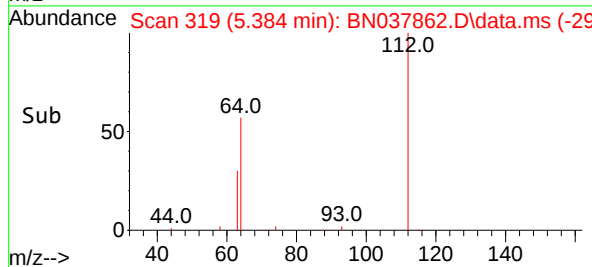
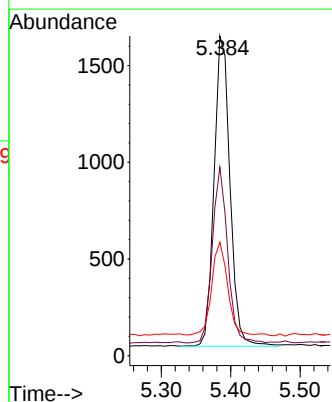
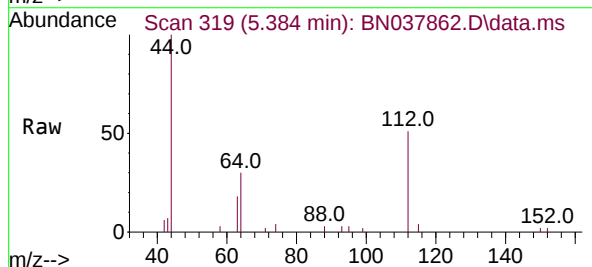
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

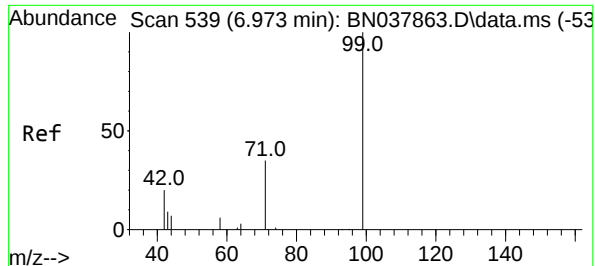
Tgt Ion: 42 Resp: 1500
Ion Ratio Lower Upper
42 100
74 112.1 93.4 140.0
44 20.9 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion: 112 Resp: 2553
Ion Ratio Lower Upper
112 100
64 54.6 44.6 66.8
63 30.9 24.9 37.3

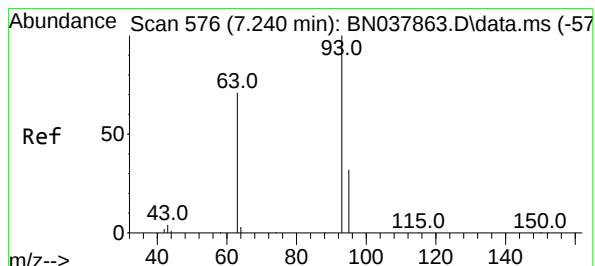
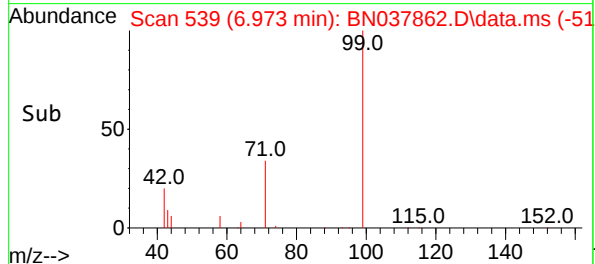
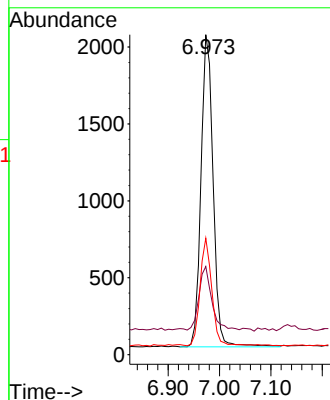
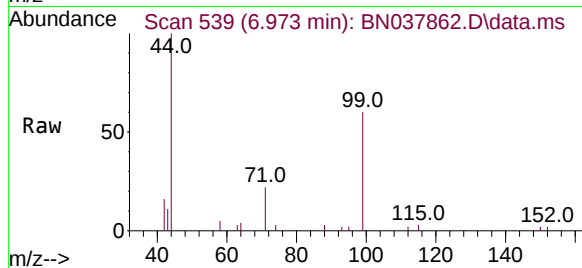




#5
Phenol-d6
Concen: 0.200 ng
RT: 6.973 min Scan# 539
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

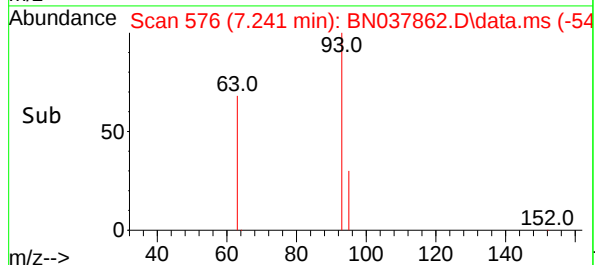
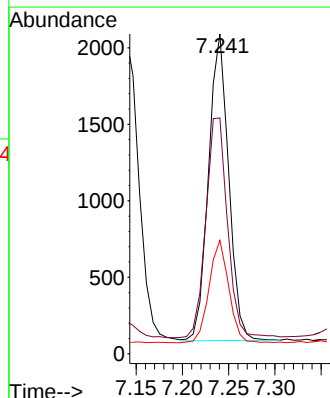
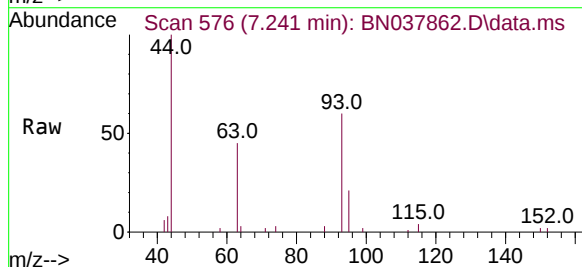
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

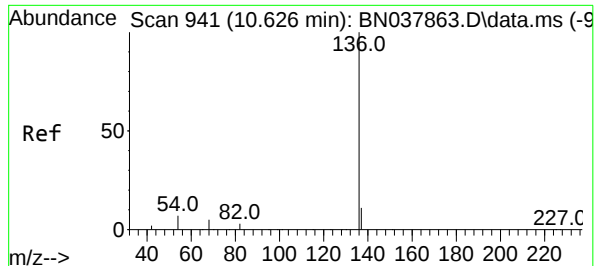
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.3	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.197 ng
RT: 7.241 min Scan# 576
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
93	100		
63	77.1	60.1	90.1
95	33.0	25.4	38.2

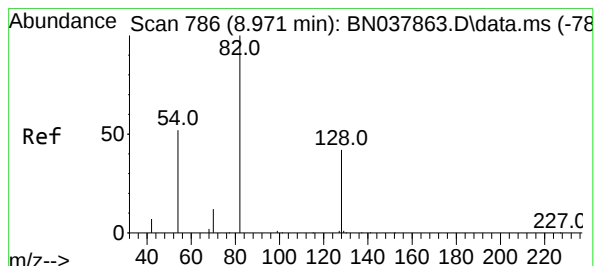
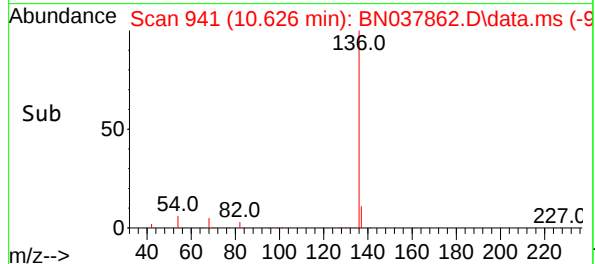
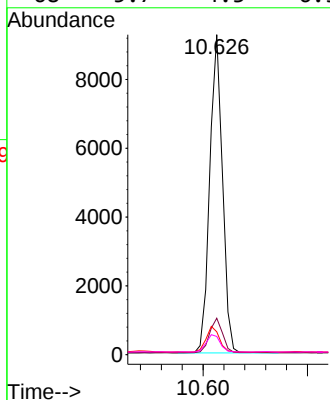
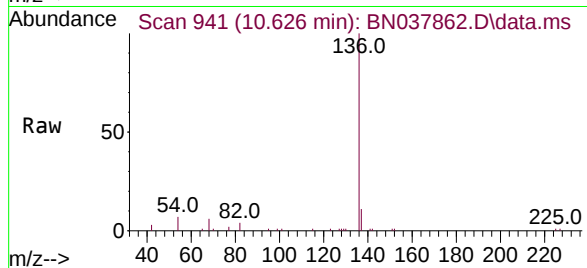




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

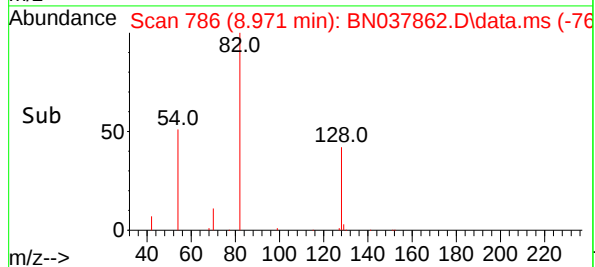
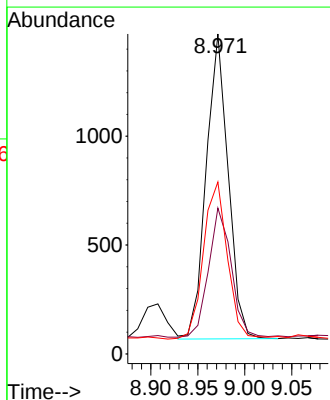
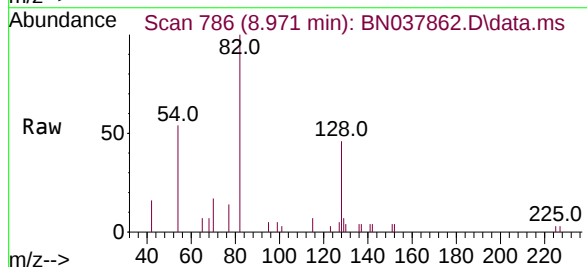
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

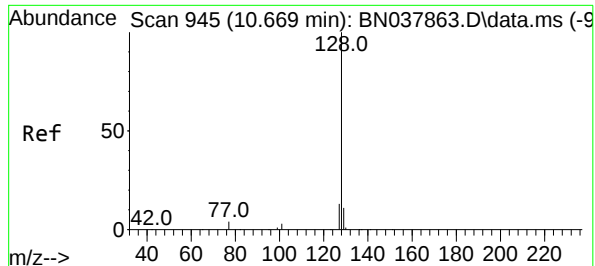
Tgt Ion:	136	Resp:	15739
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	7.1	5.8	8.8
68	5.7	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.190 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:	82	Resp:	2278
Ion	Ratio	Lower	Upper
82	100		
128	45.6	34.8	52.2
54	53.7	42.2	63.2

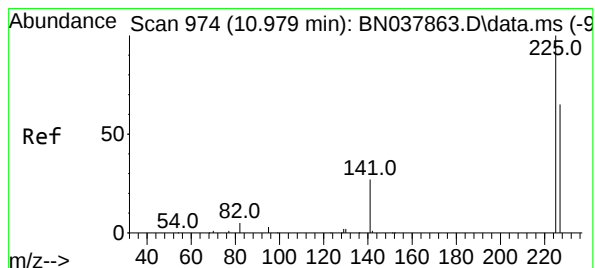
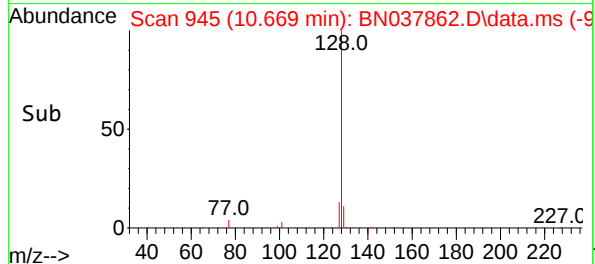
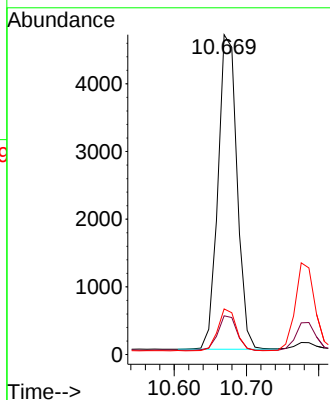
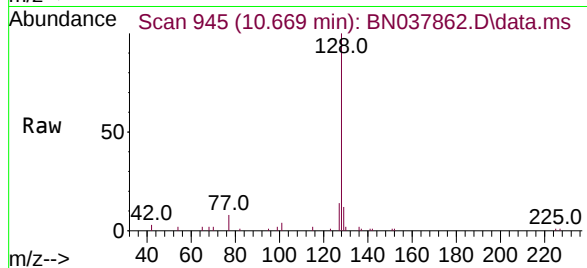




#9
Naphthalene
Concen: 0.198 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

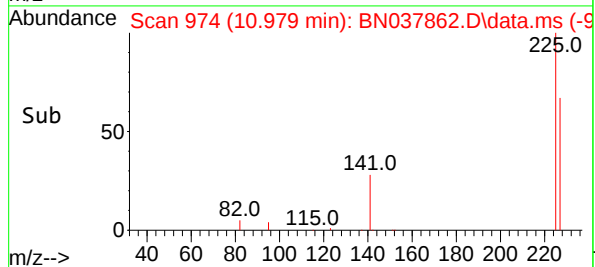
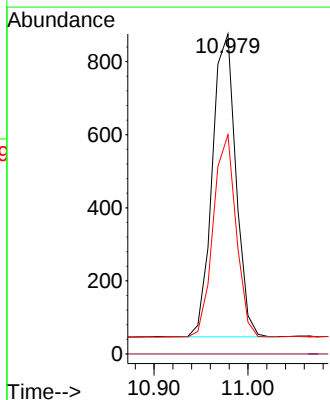
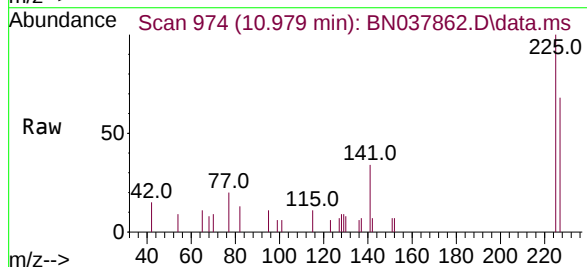
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

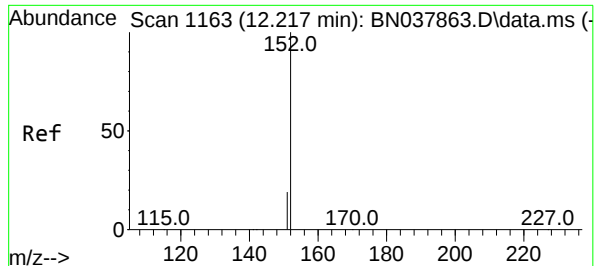
Tgt Ion:128 Resp: 8573
Ion Ratio Lower Upper
128 100
129 12.1 9.2 13.8
127 14.3 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.196 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:225 Resp: 1450
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.0 51.4 77.2

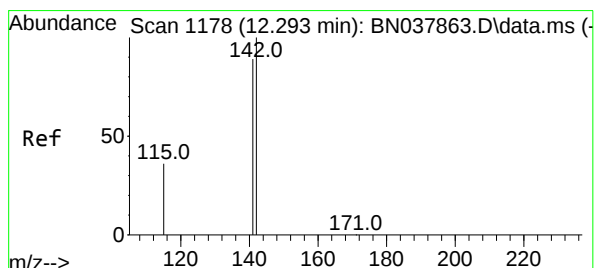
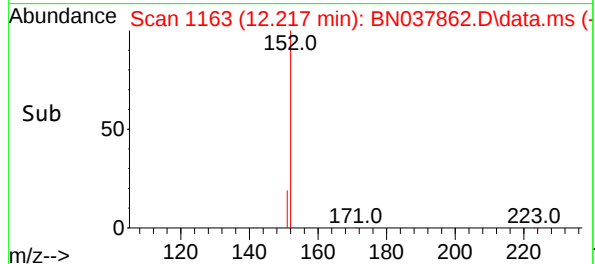
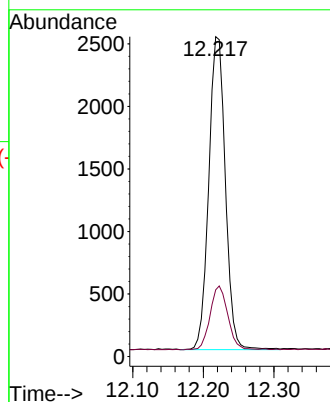
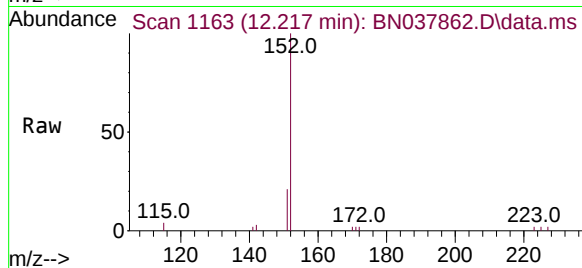




#11
2-Methylnaphthalene-d10
Concen: 0.187 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

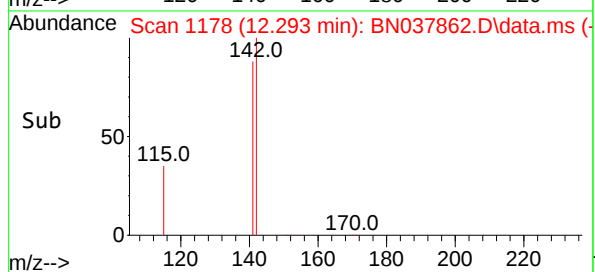
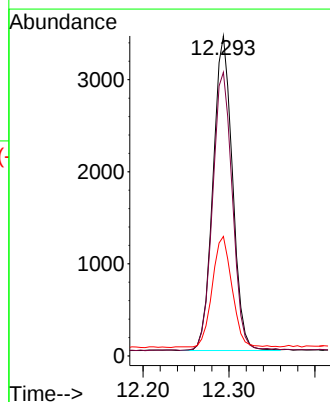
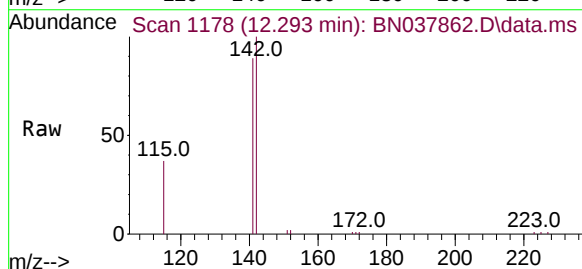
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

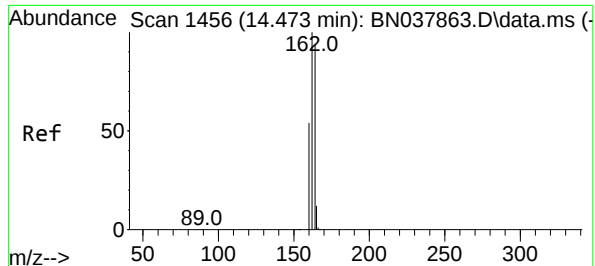
Tgt Ion:152 Resp: 4078
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.189 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:142 Resp: 5361
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 37.3 29.7 44.5

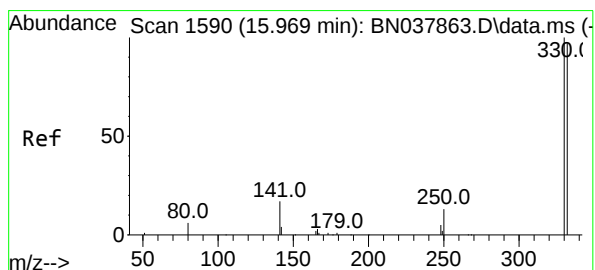
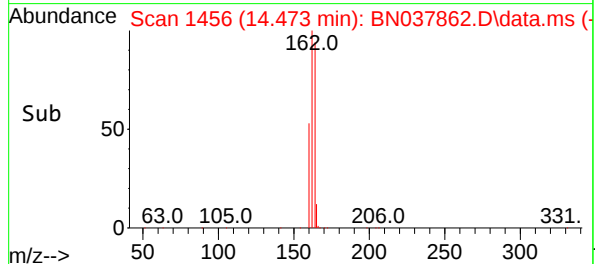
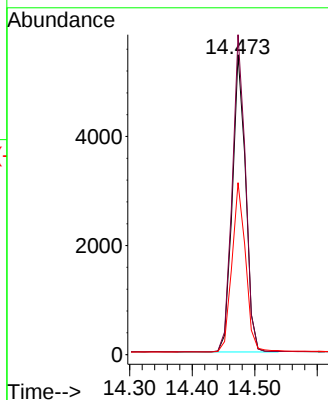
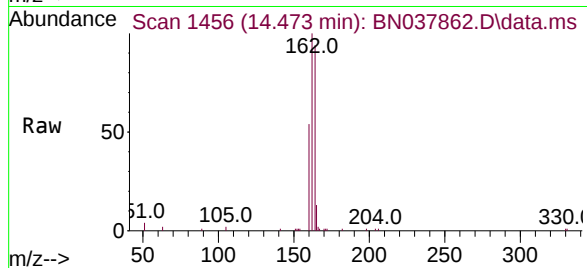




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

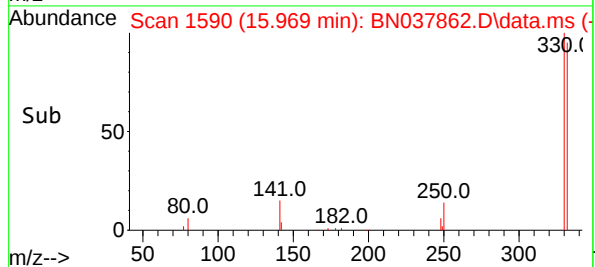
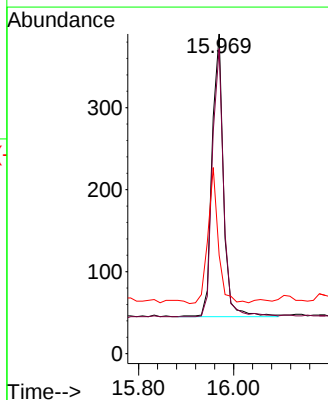
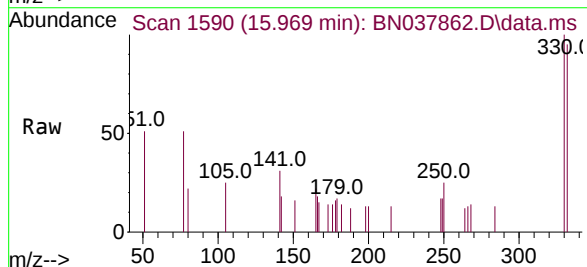
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

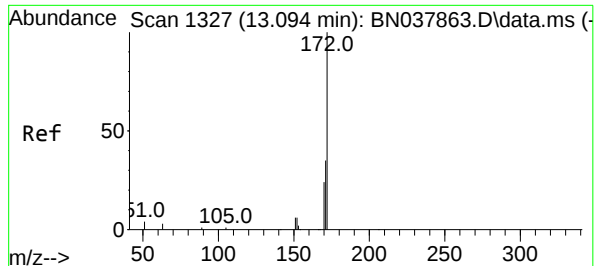
Tgt Ion:164 Resp: 8069
Ion Ratio Lower Upper
164 100
162 106.7 84.8 127.2
160 57.3 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.176 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:330 Resp: 573
Ion Ratio Lower Upper
330 100
332 94.2 77.2 115.8
141 44.0 37.2 55.8

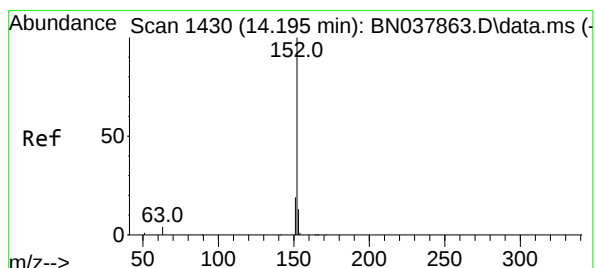
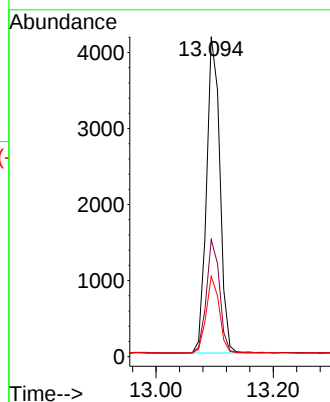
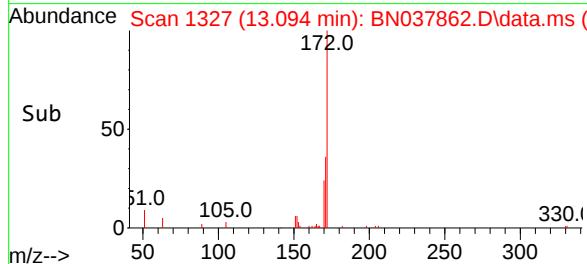
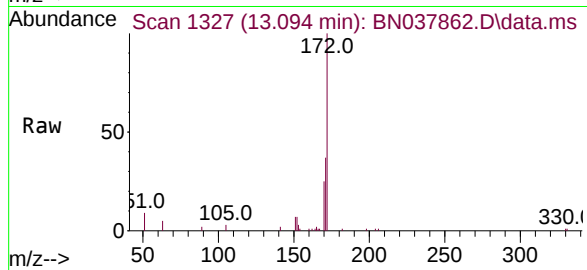




#15
2-Fluorobiphenyl
Concen: 0.199 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

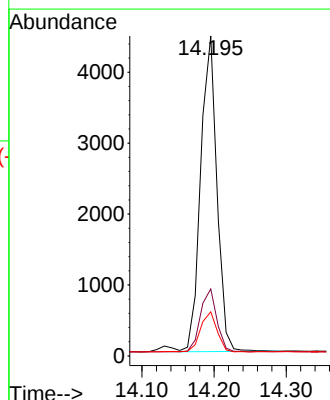
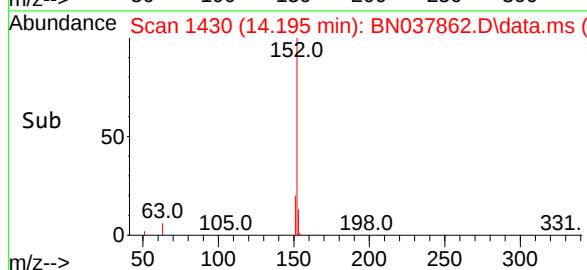
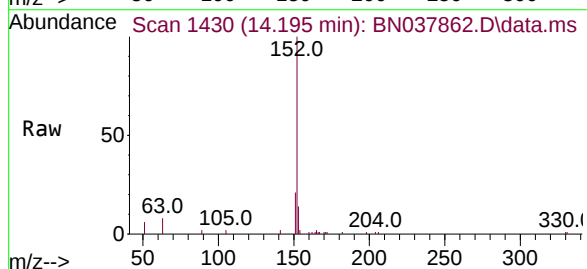
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

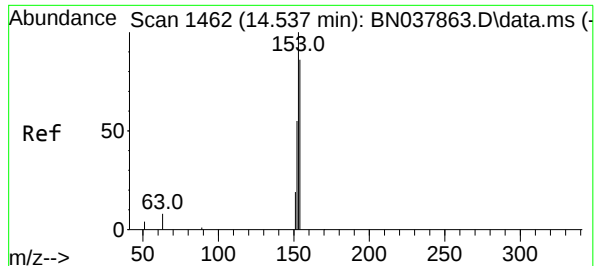
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.6	43.0
170	25.1	19.7	29.5



#16
Acenaphthylene
Concen: 0.190 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.4	15.8	23.8
153	13.1	10.5	15.7

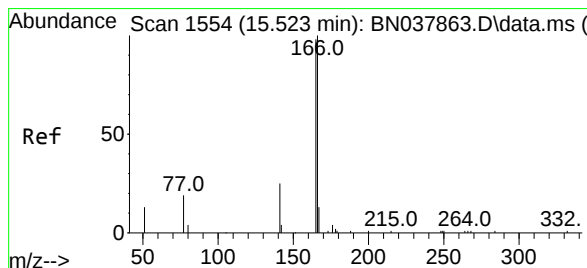
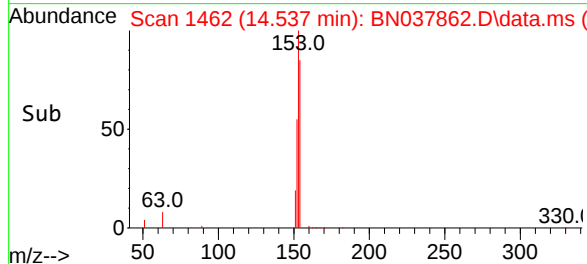
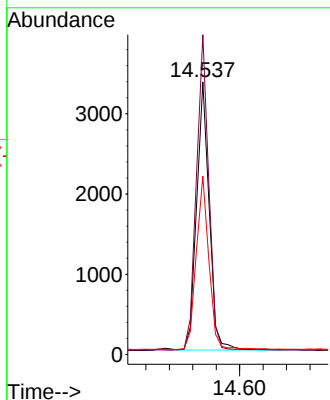
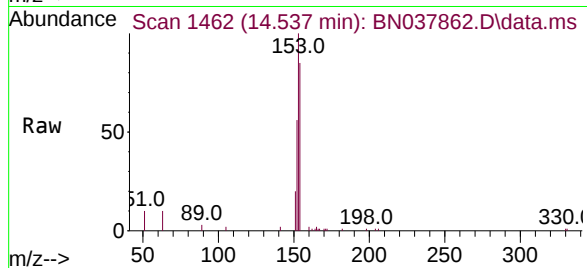




#17
Acenaphthene
Concen: 0.190 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

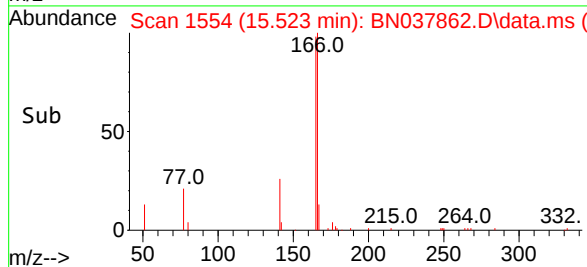
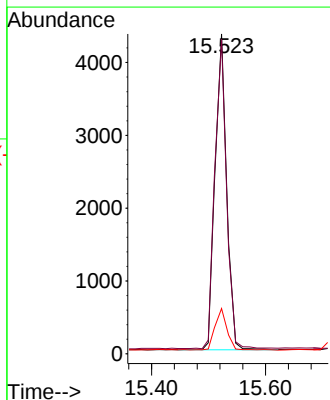
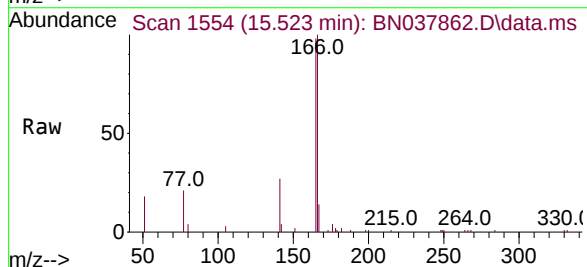
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

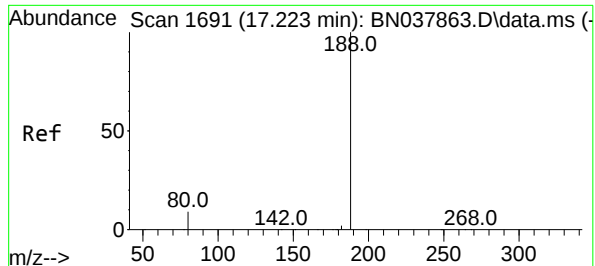
Tgt Ion	154	Resp	4963
Ion Ratio	Lower	Upper	
154	100		
153	115.4	90.5	135.7
152	65.5	51.8	77.8



#18
Fluorene
Concen: 0.186 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	166	Resp	5870
Ion Ratio	Lower	Upper	
166	100		
165	99.4	79.0	118.4
167	13.9	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

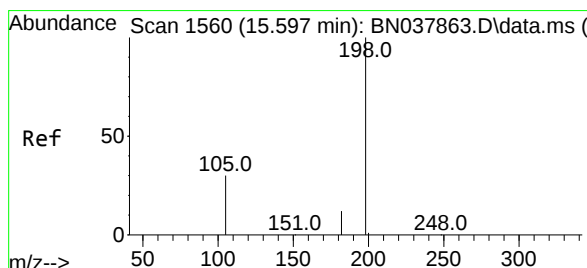
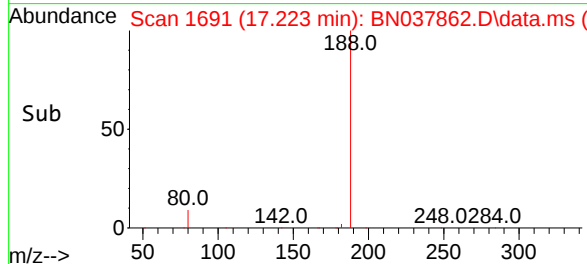
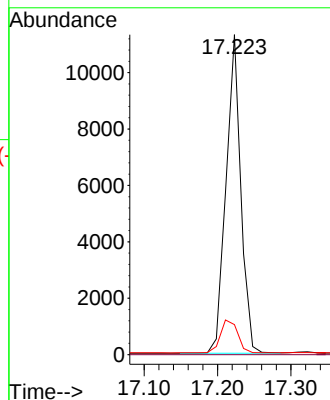
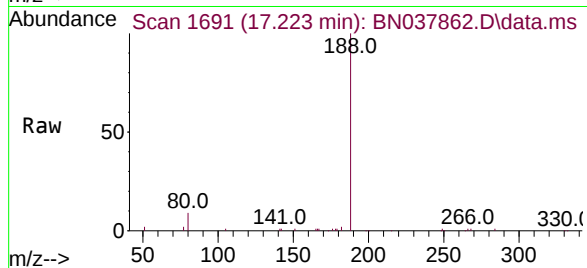
Tgt Ion:188 Resp: 15912

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.230 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

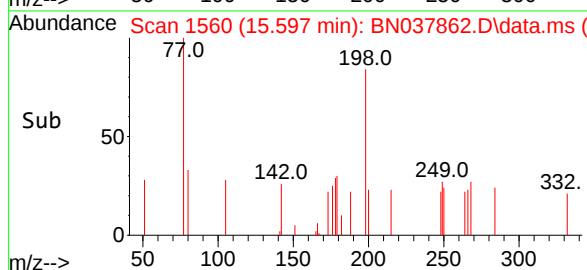
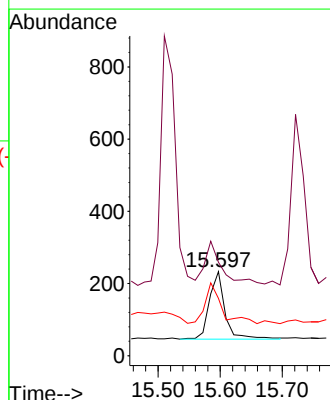
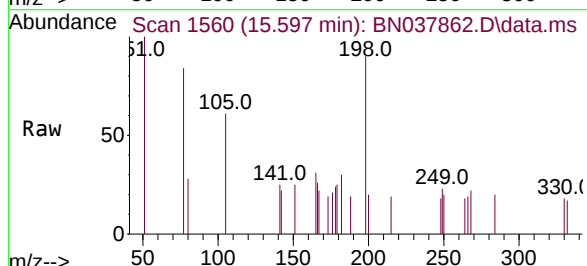
Tgt Ion:198 Resp: 325

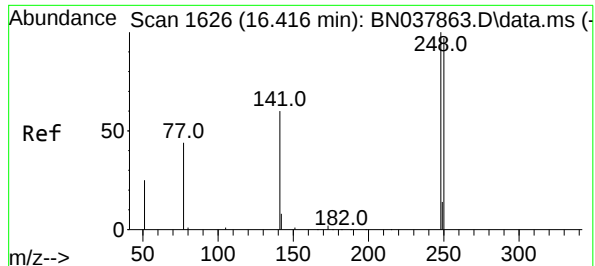
Ion Ratio Lower Upper

198 100

51 111.2 59.1 88.7#

105 68.2 41.3 61.9#

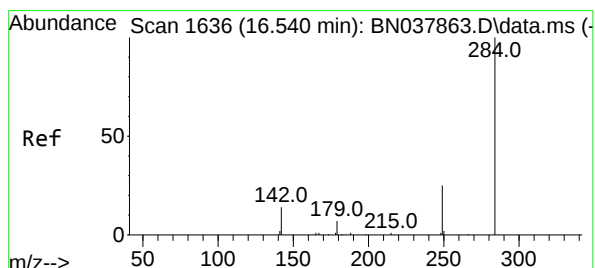
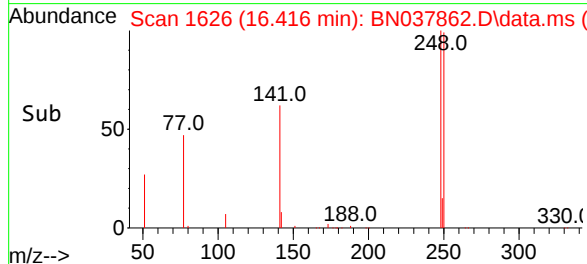
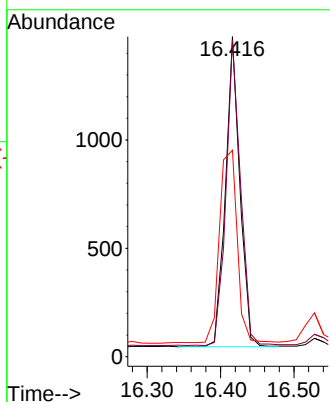
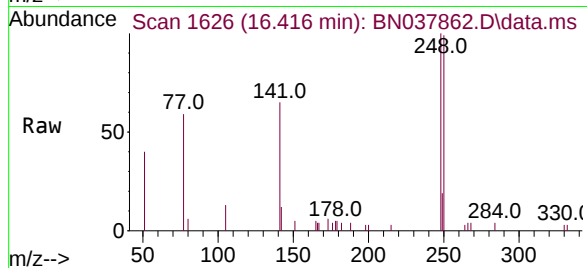




#21
4-Bromophenyl-phenylether
Concen: 0.190 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

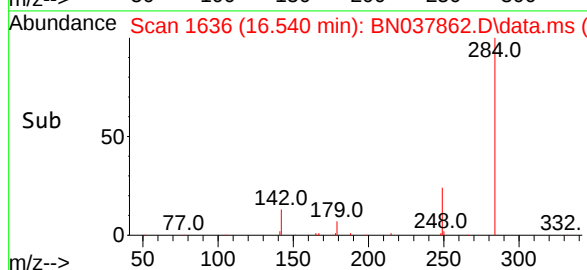
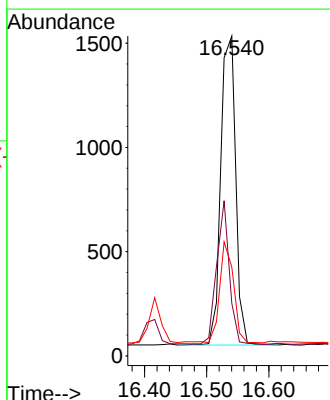
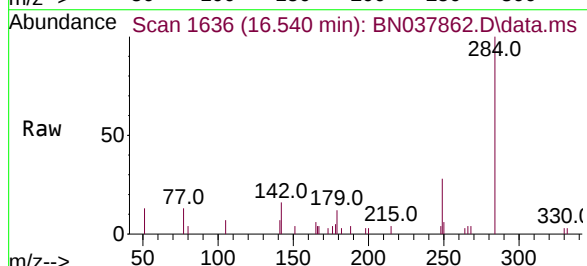
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

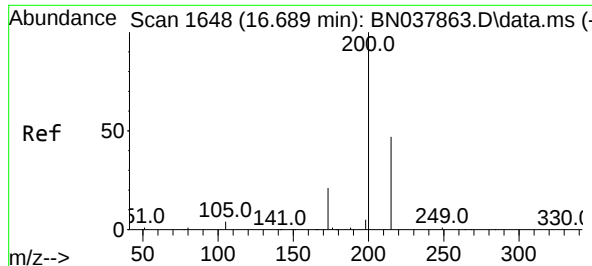
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.8	77.6	116.4
141	64.5	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.198 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	30.3	23.9	35.9

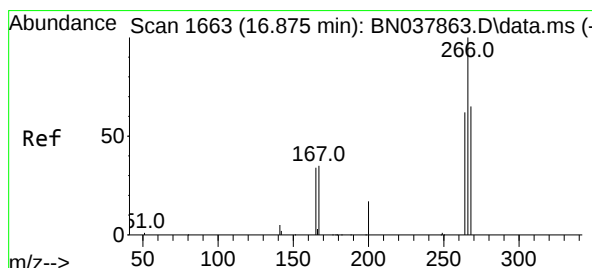
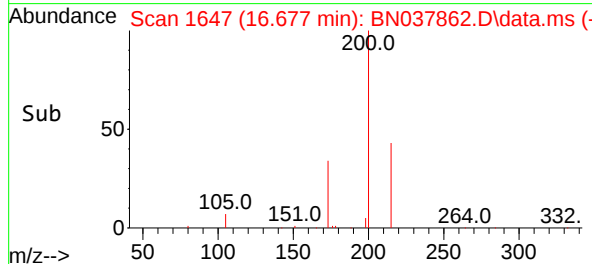
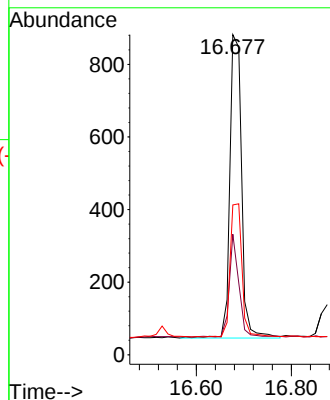
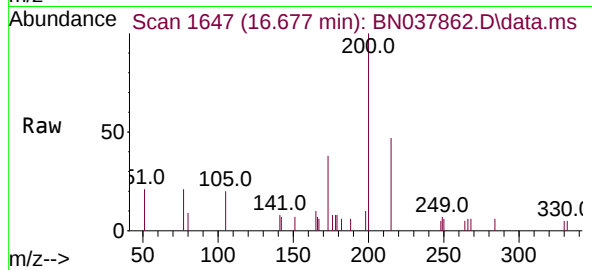




#23
Atrazine
Concen: 0.183 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

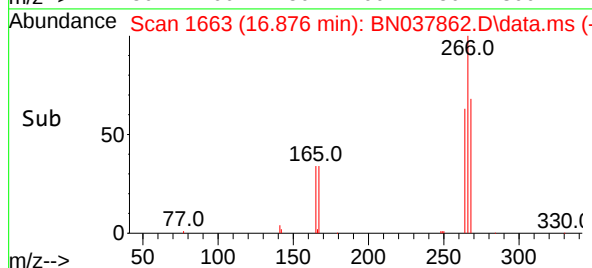
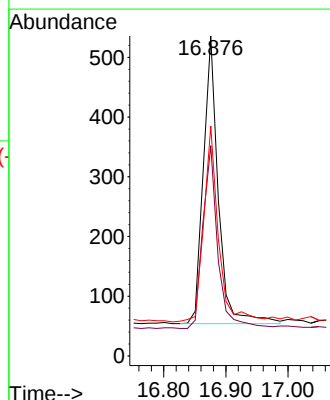
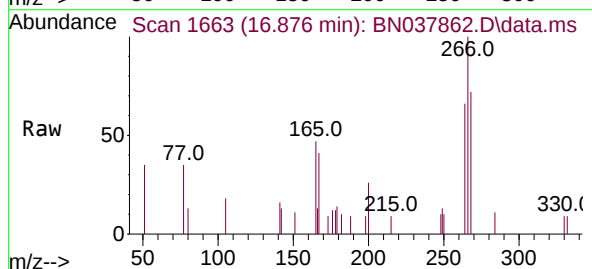
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

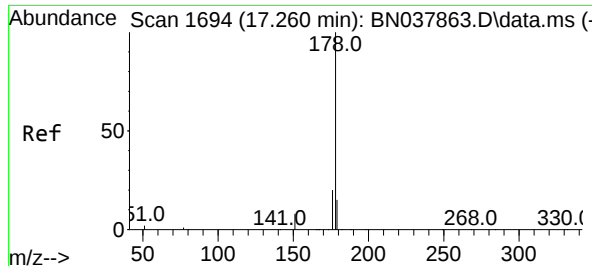
Tgt Ion:200 Resp: 1442
Ion Ratio Lower Upper
200 100
173 37.6 18.3 27.5#
215 46.8 38.6 58.0



#24
Pentachlorophenol
Concen: 0.186 ng
RT: 16.876 min Scan# 1663
Delta R.T. 0.001 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:266 Resp: 804
Ion Ratio Lower Upper
266 100
264 63.3 50.9 76.3
268 66.4 54.3 81.5

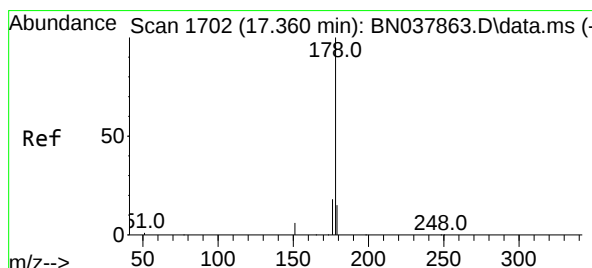
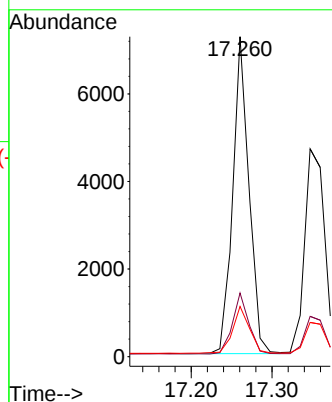
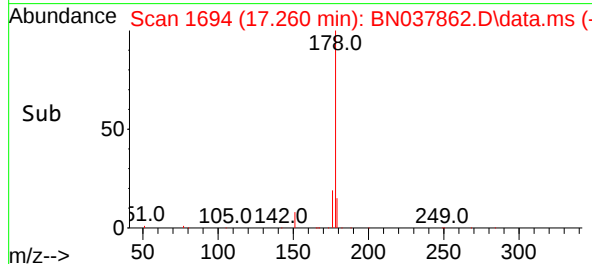
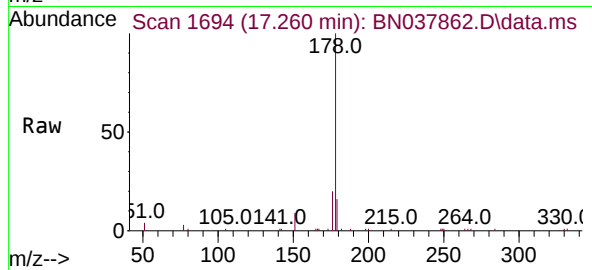




#25
Phenanthrene
Concen: 0.193 ng
RT: 17.260 min Scan# 1694
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

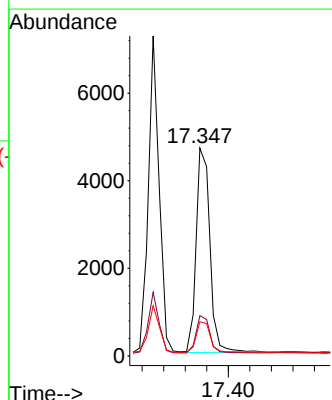
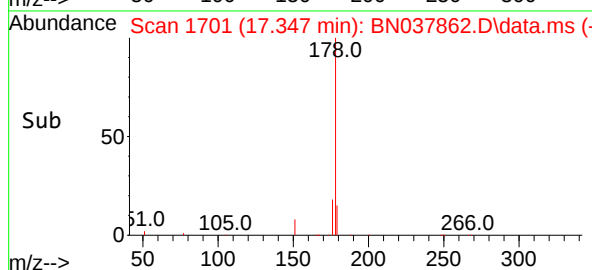
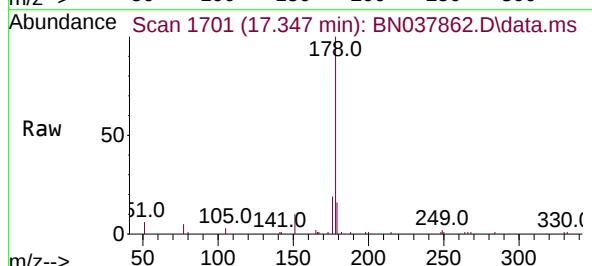
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

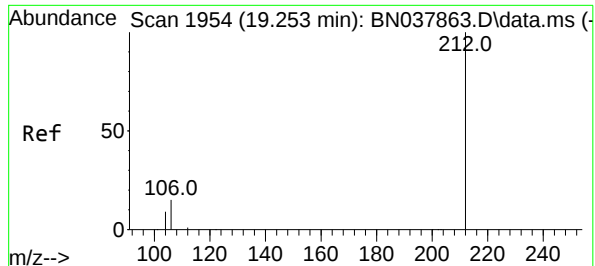
Tgt Ion:178 Resp: 10109
Ion Ratio Lower Upper
178 100
176 19.1 15.7 23.5
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.181 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:178 Resp: 8235
Ion Ratio Lower Upper
178 100
176 18.1 15.0 22.4
179 15.7 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.182 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

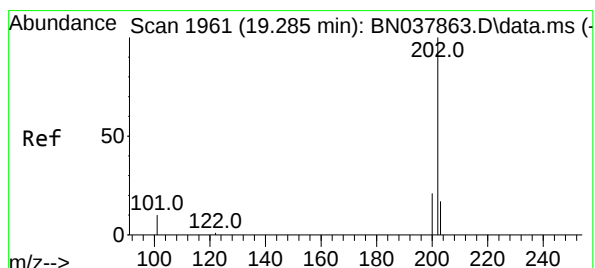
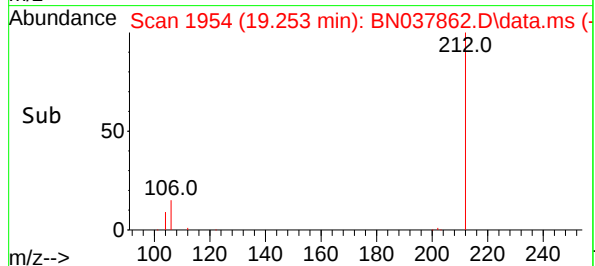
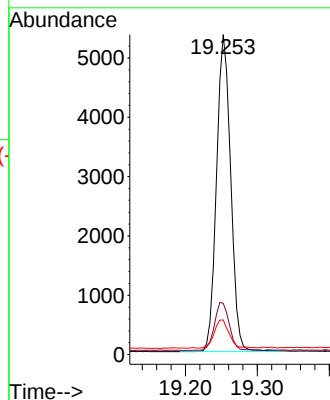
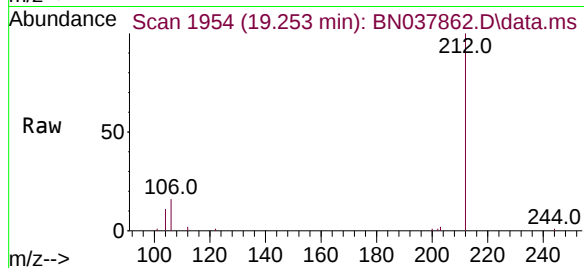
Tgt Ion:212 Resp: 7304

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.3 7.4 11.0



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.280 min Scan# 1960

Delta R.T. -0.005 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

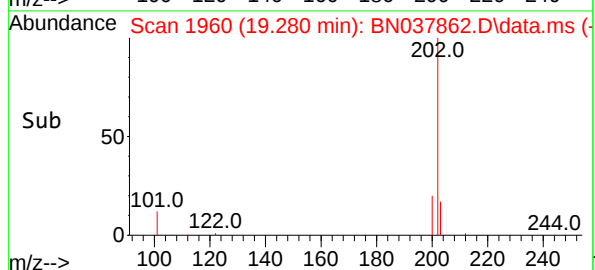
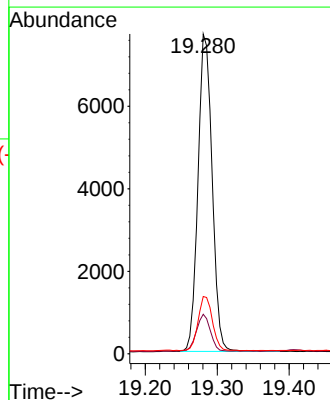
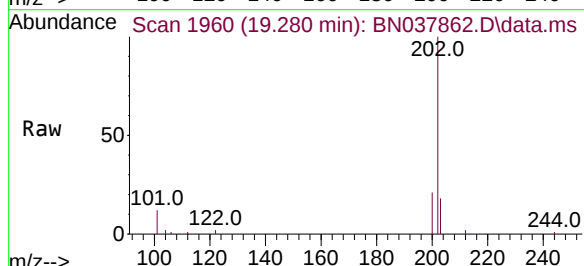
Tgt Ion:202 Resp: 10466

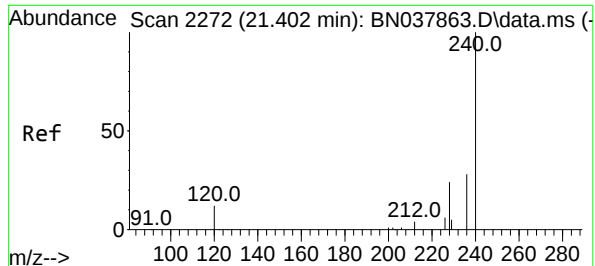
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

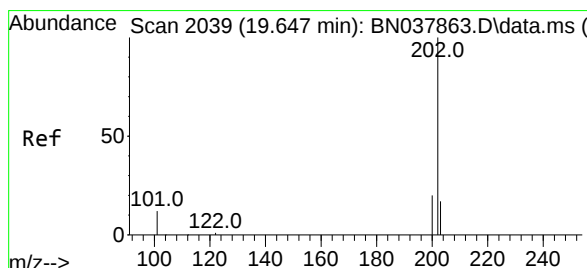
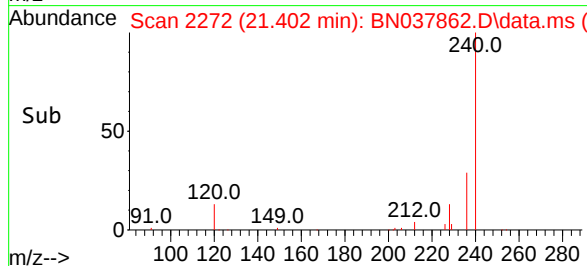
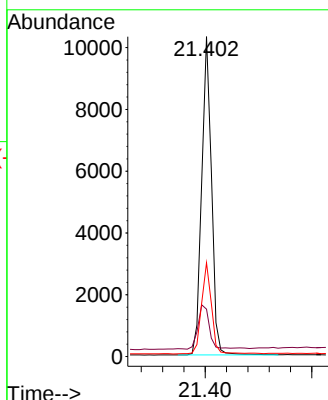
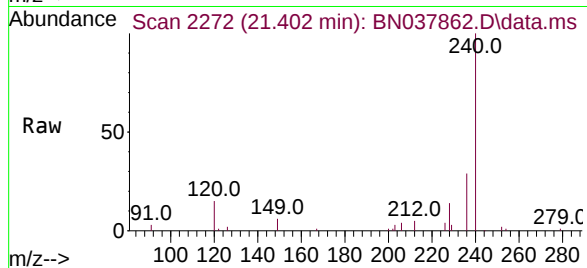
Tgt Ion:240 Resp: 13158

Ion Ratio Lower Upper

240 100

120 14.8 11.4 17.2

236 29.3 23.0 34.6



#30

Pyrene

Concen: 0.203 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

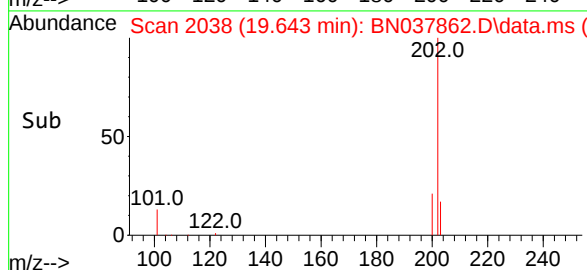
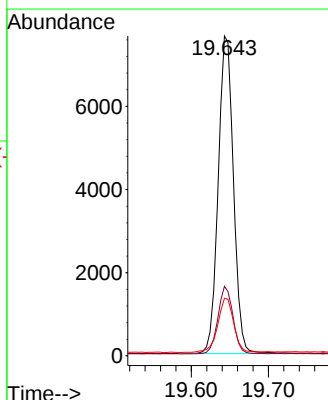
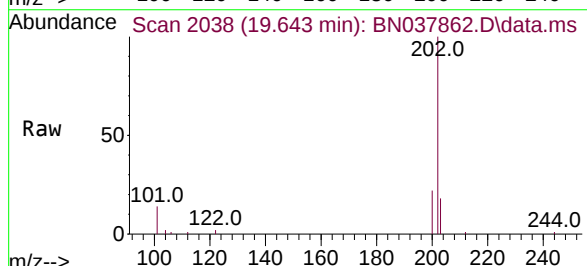
Tgt Ion:202 Resp: 10528

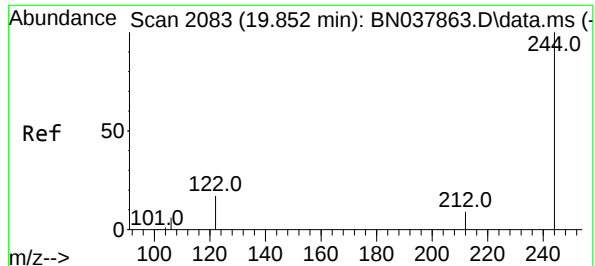
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.9 14.2 21.4

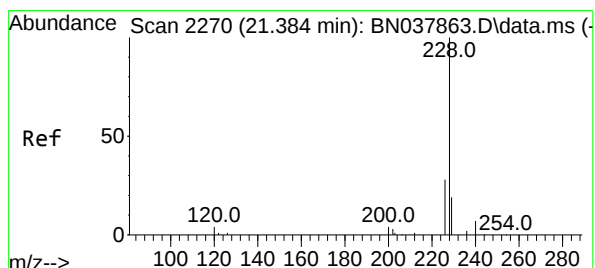
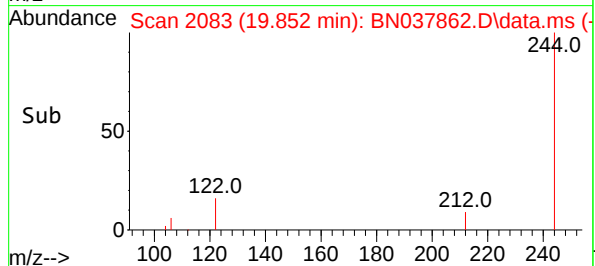
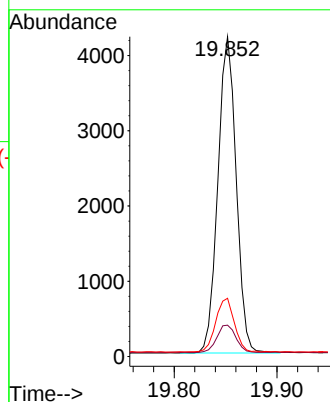
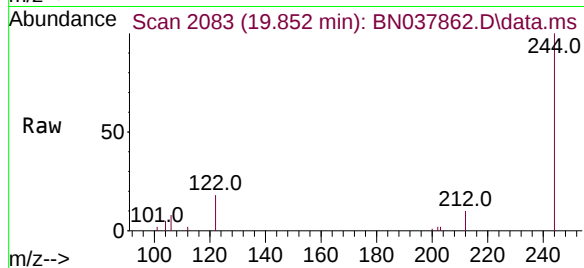




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

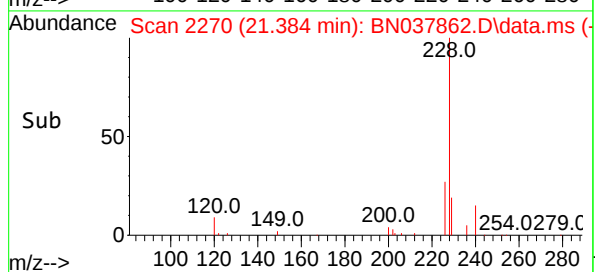
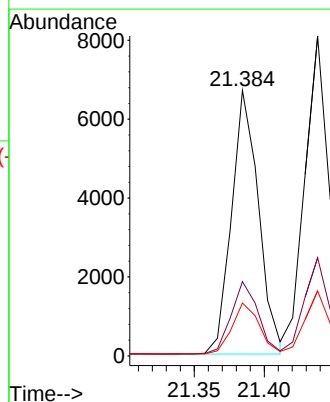
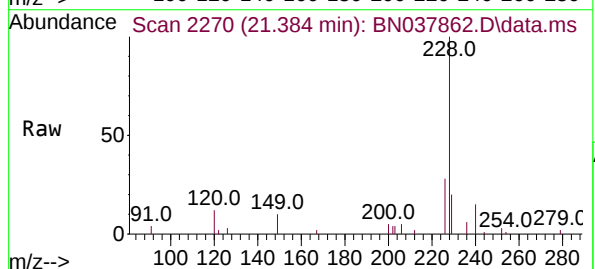
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

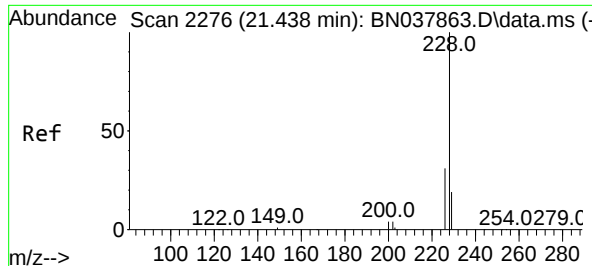
Tgt Ion:244 Resp: 5201
Ion Ratio Lower Upper
244 100
212 9.8 7.6 11.4
122 18.2 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.194 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:228 Resp: 8943
Ion Ratio Lower Upper
228 100
226 28.0 22.6 33.8
229 19.9 15.6 23.4





#33

Chrysene

Concen: 0.202 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

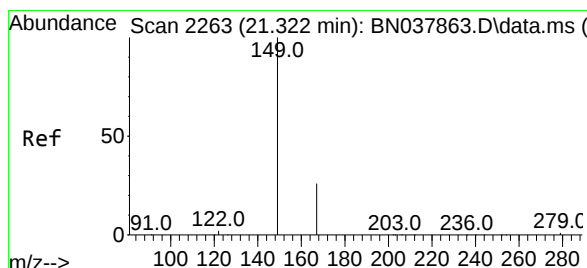
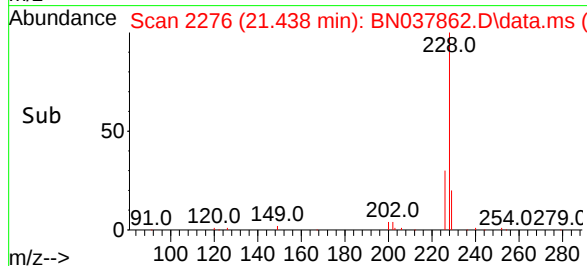
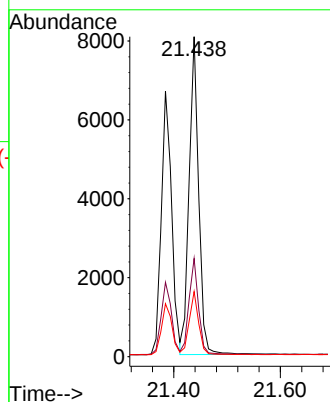
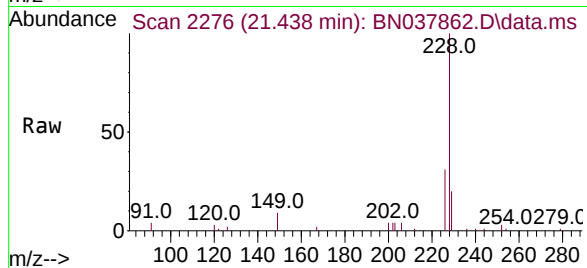
Tgt Ion:228 Resp: 10042

Ion Ratio Lower Upper

228 100

226 30.7 24.6 37.0

229 20.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.214 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

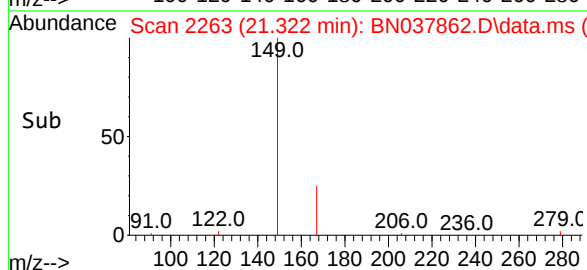
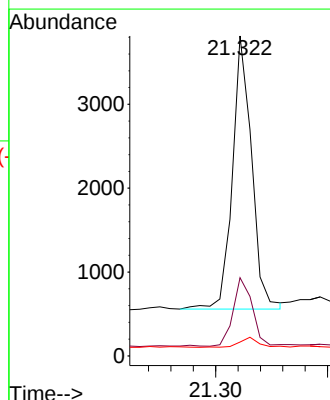
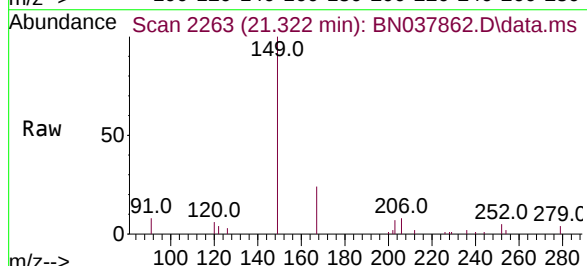
Tgt Ion:149 Resp: 3892

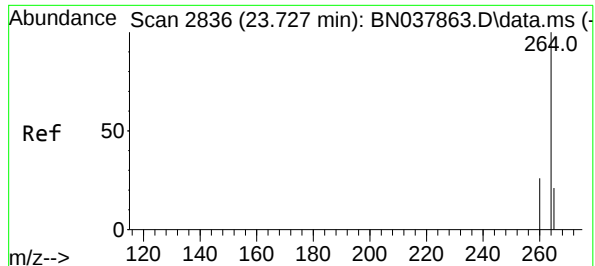
Ion Ratio Lower Upper

149 100

167 25.5 20.4 30.6

279 3.6 2.4 3.6#

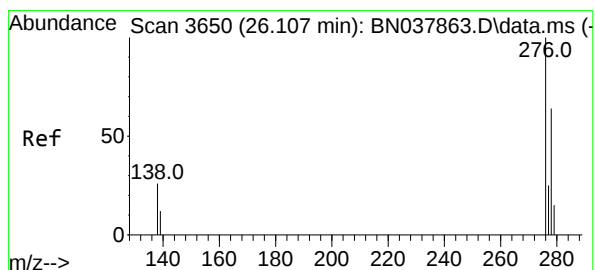
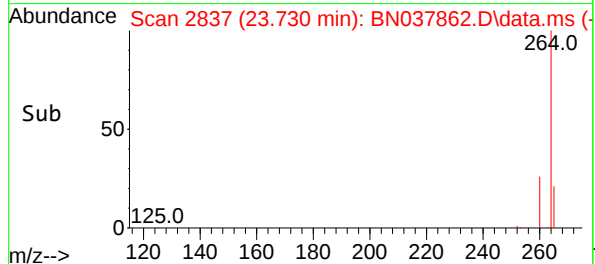
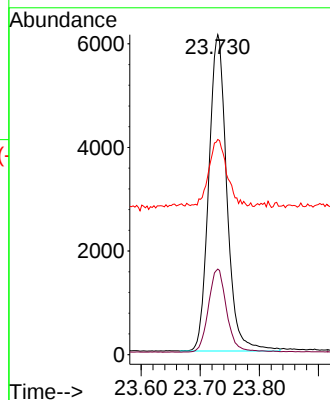
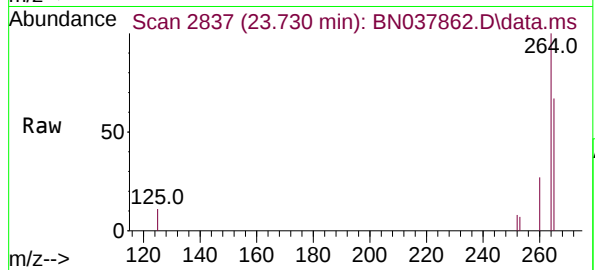




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2837
Delta R.T. 0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

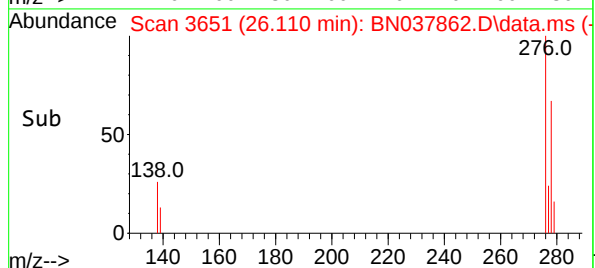
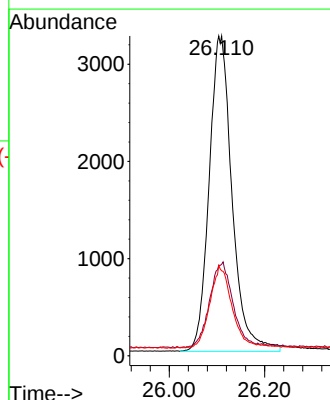
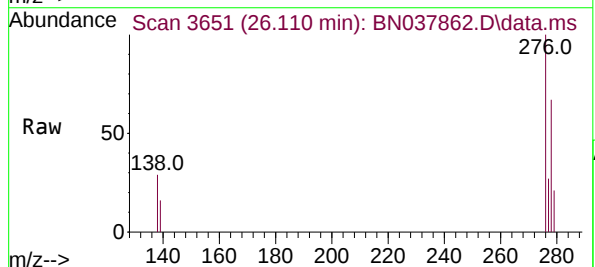
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

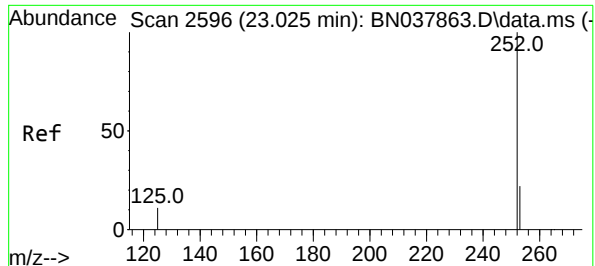
Tgt Ion:264 Resp: 12974
Ion Ratio Lower Upper
264 100
260 26.7 21.5 32.3
265 67.2 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.183 ng
RT: 26.110 min Scan# 3651
Delta R.T. 0.003 min
Lab File: BN037862.D
Acq: 23 Sep 2025 12:49

Tgt Ion:276 Resp: 10845
Ion Ratio Lower Upper
276 100
138 27.3 21.4 32.0
277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.186 ng

RT: 23.025 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

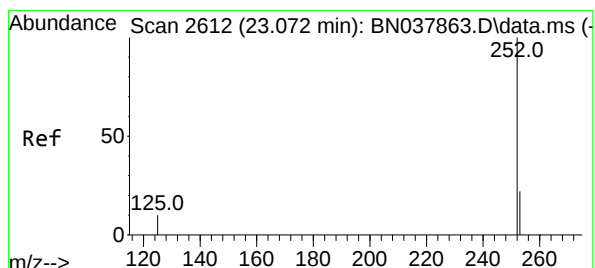
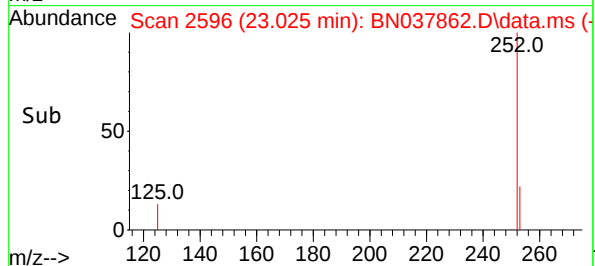
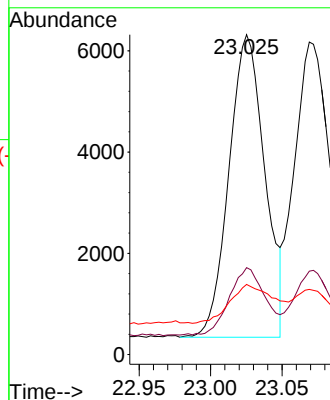
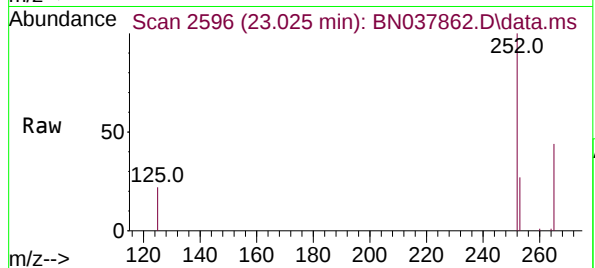
Tgt Ion:252 Resp: 10420

Ion Ratio Lower Upper

252 100

253 27.2 19.4 29.0

125 21.9 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 23.069 min Scan# 2611

Delta R.T. -0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

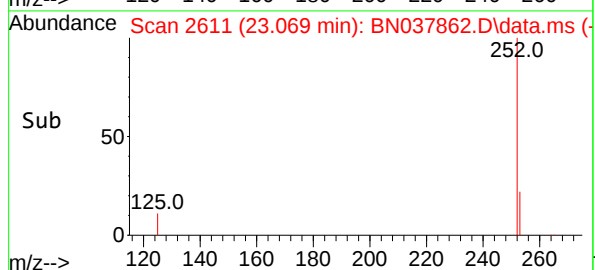
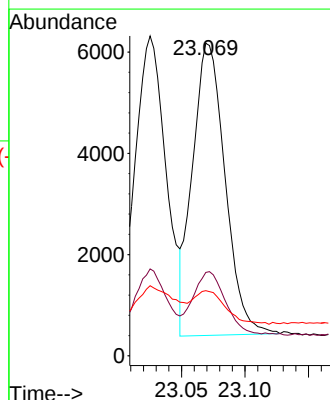
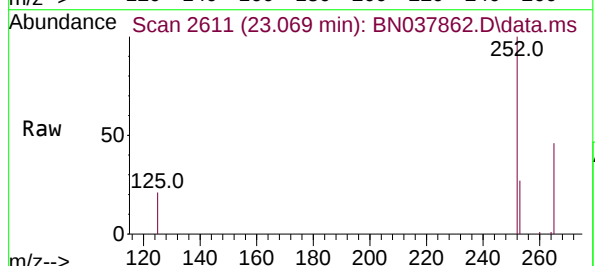
Tgt Ion:252 Resp: 10290

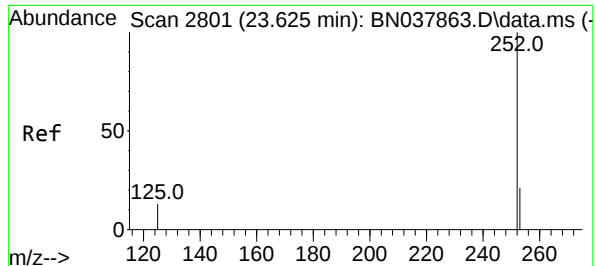
Ion Ratio Lower Upper

252 100

253 26.7 19.5 29.3

125 20.9 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

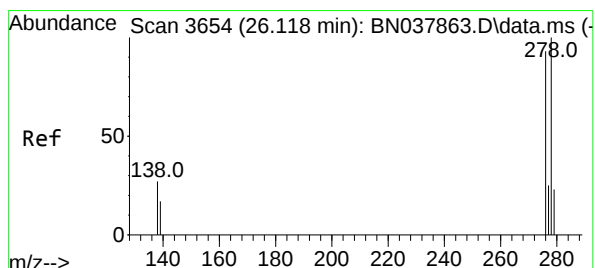
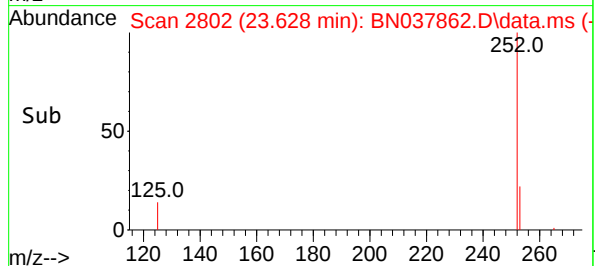
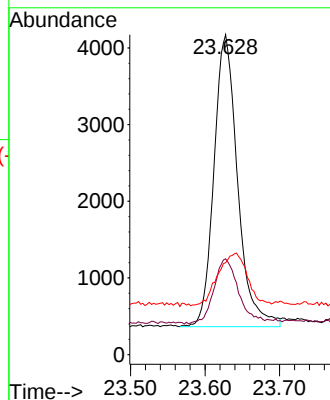
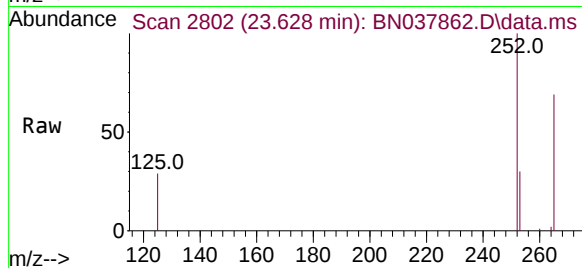
Tgt Ion:252 Resp: 8405

Ion Ratio Lower Upper

252 100

253 29.9 20.6 30.8

125 28.7 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.180 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

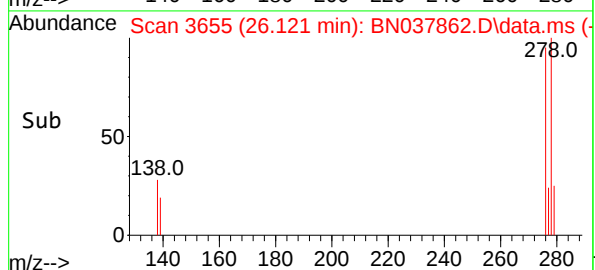
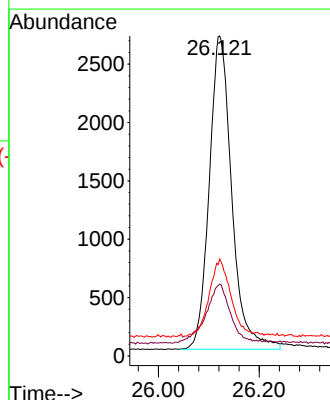
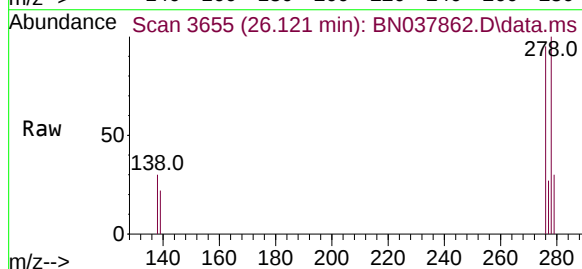
Tgt Ion:278 Resp: 8321

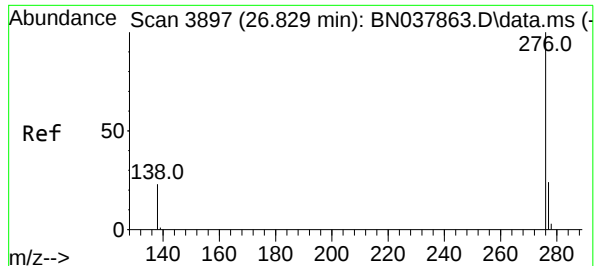
Ion Ratio Lower Upper

278 100

139 22.4 15.4 23.2

279 30.3 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 26.826 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN037862.D

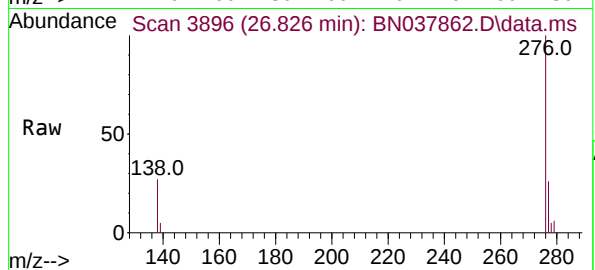
Acq: 23 Sep 2025 12:49

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



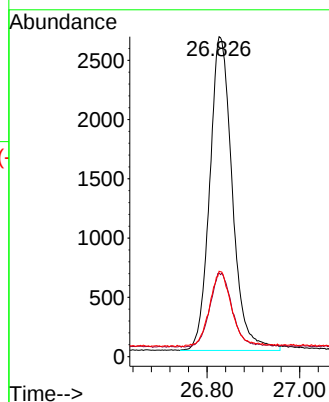
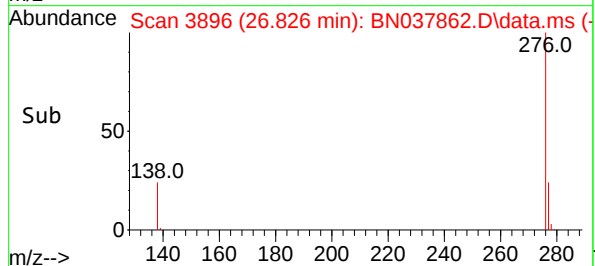
Tgt Ion:276 Resp: 8956

Ion Ratio Lower Upper

276 100

277 26.1 20.2 30.4

138 26.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037863.D
 Acq On : 23 Sep 2025 13:25
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Sep 23 16:21:54 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

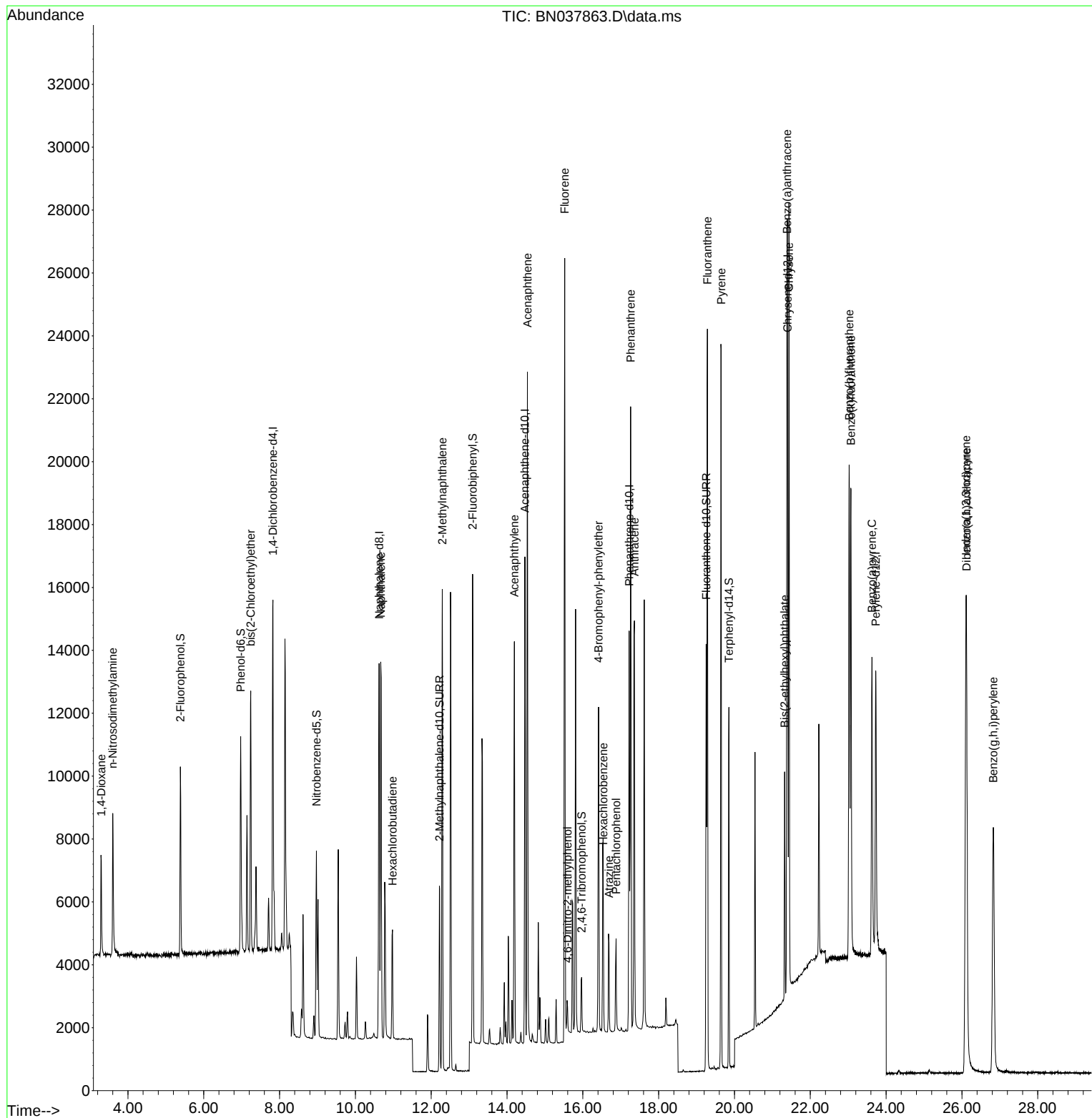
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5584	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15792	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8247	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15939	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13579	0.400	ng	0.00
35) Perylene-d12	23.727	264	12579	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	4779	0.375	ng	0.00
5) Phenol-d6	6.973	99	6244	0.373	ng	0.00
8) Nitrobenzene-d5	8.971	82	4566	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	7877	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1117	0.336	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	12861	0.381	ng	0.00
27) Fluoranthene-d10	19.253	212	14130	0.352	ng	0.00
31) Terphenyl-d14	19.852	244	10222	0.378	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2288	0.404	ng	100
3) n-Nitrosodimethylamine	3.601	42	2885	0.383	ng	100
6) bis(2-Chloroethyl)ether	7.240	93	6041	0.389	ng	100
9) Naphthalene	10.669	128	16547	0.380	ng	100
10) Hexachlorobutadiene	10.979	225	2874	0.387	ng	# 100
12) 2-Methylnaphthalene	12.293	142	10542	0.371	ng	100
16) Acenaphthylene	14.195	152	13712	0.366	ng	100
17) Acenaphthene	14.537	154	9880	0.370	ng	100
18) Fluorene	15.523	166	11975	0.371	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	696	0.406	ng	100
21) 4-Bromophenyl-phenylether	16.416	248	3896	0.375	ng	100
22) Hexachlorobenzene	16.540	284	4854	0.385	ng	100
23) Atrazine	16.689	200	2739	0.346	ng	100
24) Pentachlorophenol	16.875	266	1466	0.339	ng	100
25) Phenanthrene	17.260	178	19609	0.374	ng	100
26) Anthracene	17.360	178	16310	0.358	ng	100
28) Fluoranthene	19.285	202	20902	0.362	ng	100
30) Pyrene	19.647	202	20652	0.385	ng	100
32) Benzo(a)anthracene	21.384	228	17571	0.370	ng	100
33) Chrysene	21.438	228	19852	0.387	ng	100
34) Bis(2-ethylhexyl)phtha...	21.322	149	6617	0.352	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	20858	0.363	ng	100
37) Benzo(b)fluoranthene	23.025	252	20638	0.380	ng	100
38) Benzo(k)fluoranthene	23.072	252	20090	0.368	ng	100
39) Benzo(a)pyrene	23.625	252	15479	0.361	ng	100
40) Dibenzo(a,h)anthracene	26.118	278	16392	0.365	ng	100
41) Benzo(g,h,i)perylene	26.829	276	17656	0.374	ng	100

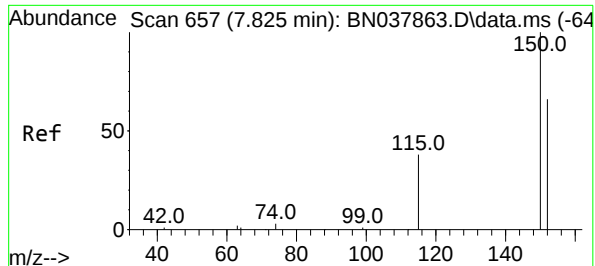
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037863.D
Acq On : 23 Sep 2025 13:25
Operator : RC/JU
Sample : SSTDICC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.4

Quant Time: Sep 23 16:21:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

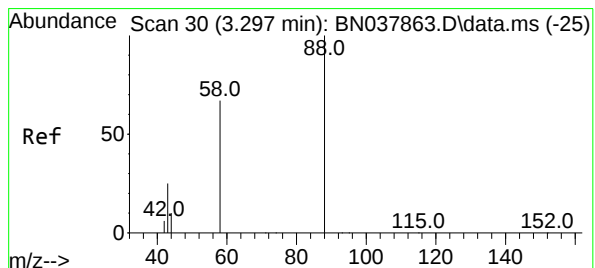
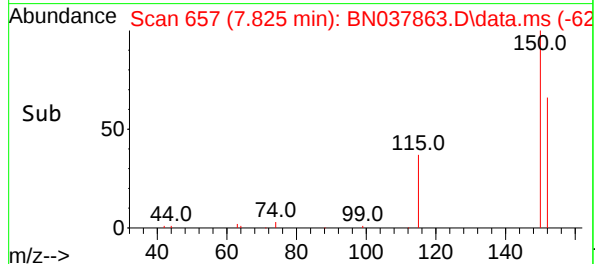
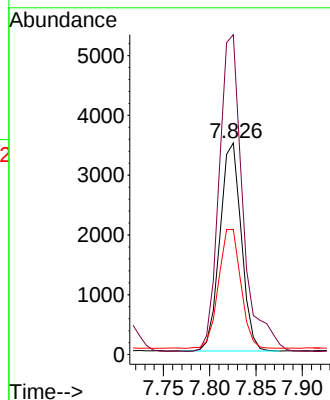
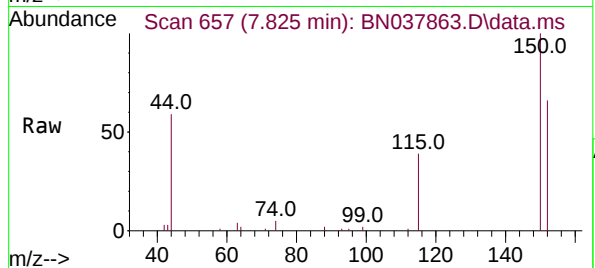




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

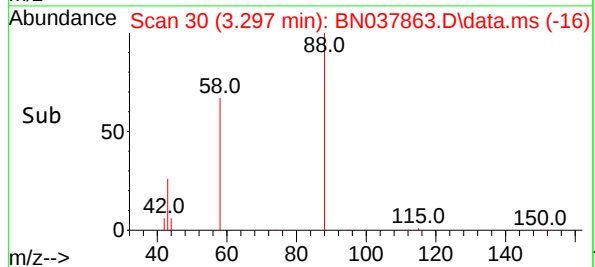
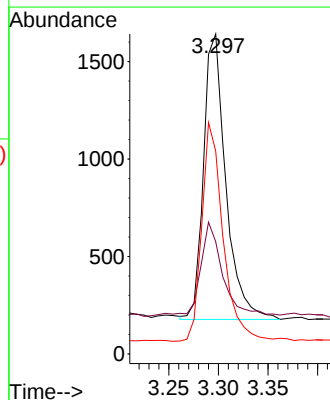
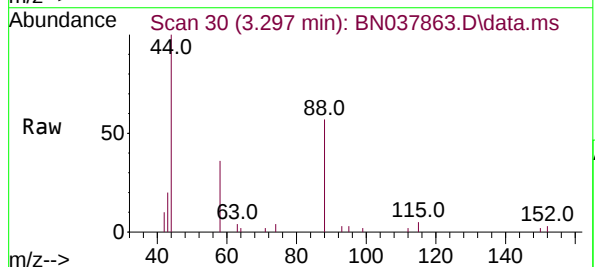
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

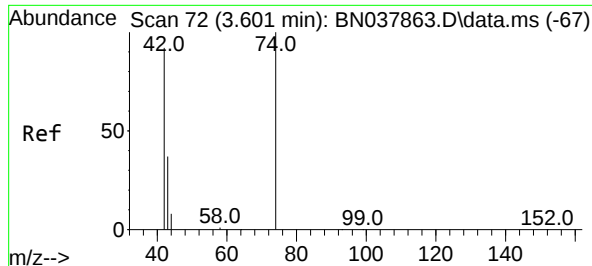
Tgt Ion:152 Resp: 5584
Ion Ratio Lower Upper
152 100
150 151.2 121.0 181.4
115 59.2 47.4 71.0



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 3.297 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 88 Resp: 2288
Ion Ratio Lower Upper
88 100
43 33.2 26.6 39.8
58 73.6 58.9 88.3

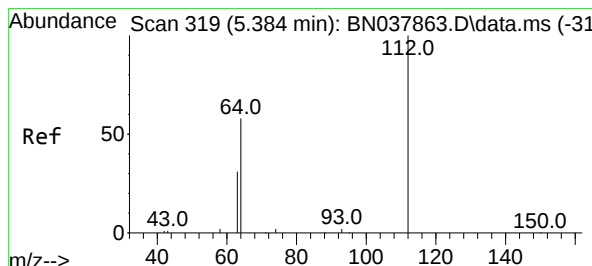
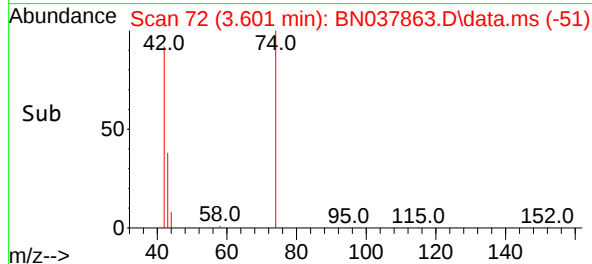
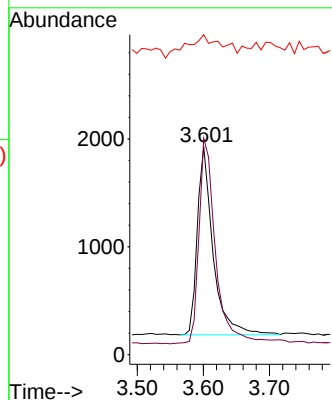
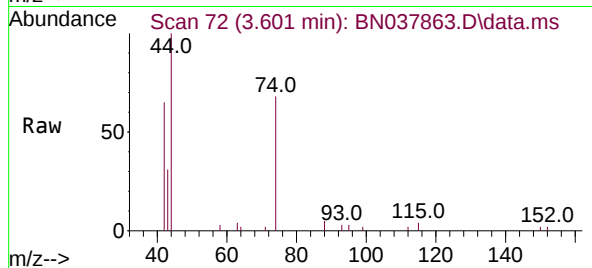




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.601 min Scan# 72
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

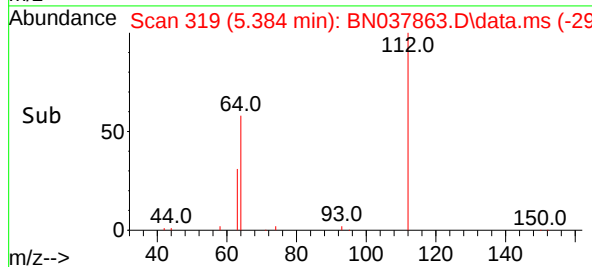
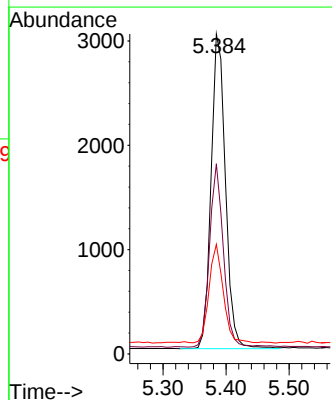
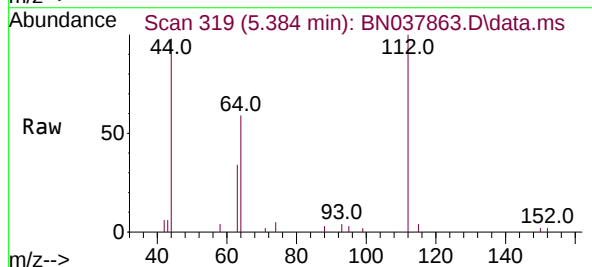
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

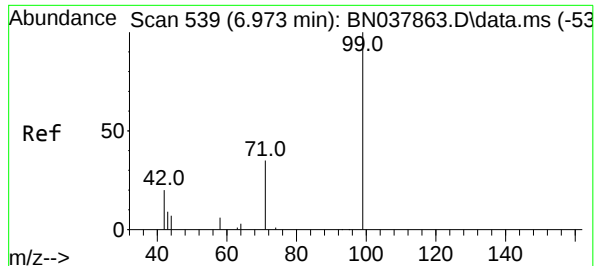
Tgt Ion: 42 Resp: 2885
Ion Ratio Lower Upper
42 100
74 116.7 93.4 140.0
44 27.8 22.2 33.4



#4
2-Fluorophenol
Concen: 0.375 ng
RT: 5.384 min Scan# 319
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion: 112 Resp: 4779
Ion Ratio Lower Upper
112 100
64 55.7 44.6 66.8
63 31.1 24.9 37.3





#5

Phenol-d6

Concen: 0.373 ng

RT: 6.973 min Scan# 539

Delta R.T. 0.000 min

Lab File: BN037863.D

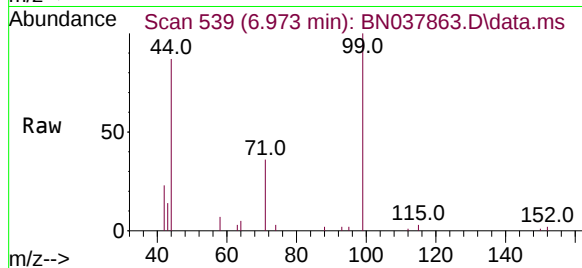
Acq: 23 Sep 2025 13:25

Instrument :

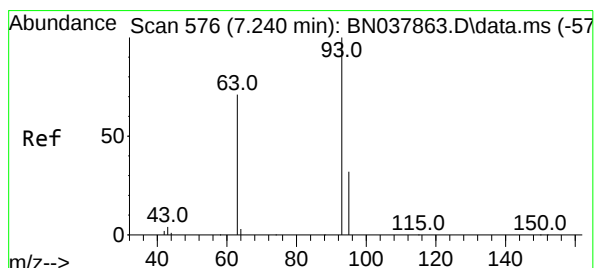
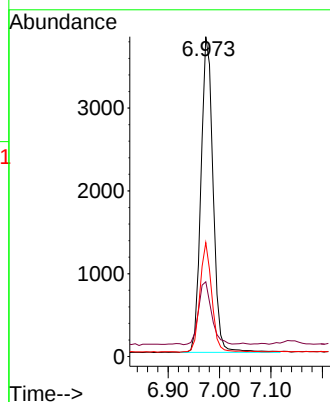
BNA_N

ClientSampleId :

SSTDICCC0.4



Tgt Ion:	99	Resp:	6244
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.2	25.8
71	34.1	27.3	40.9



#6

bis(2-Chloroethyl)ether

Concen: 0.389 ng

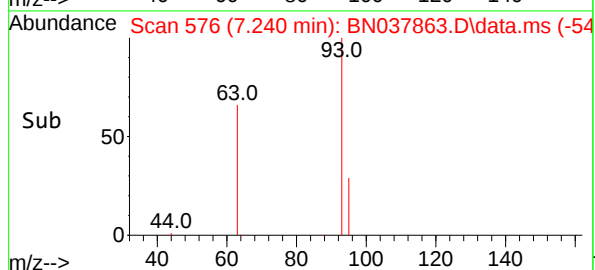
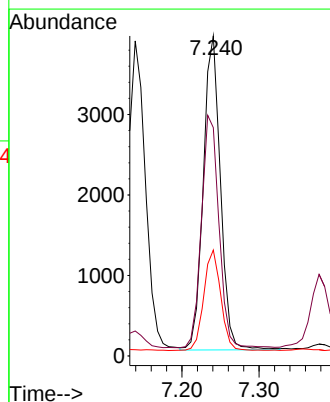
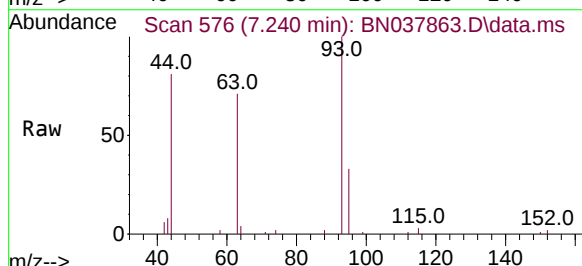
RT: 7.240 min Scan# 576

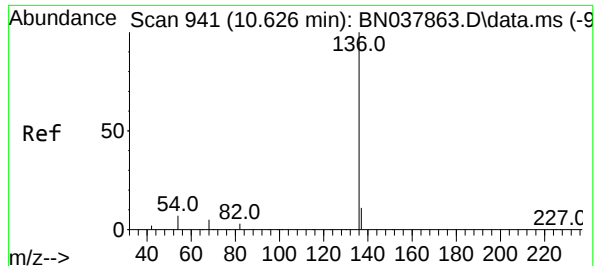
Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Tgt Ion:	93	Resp:	6041
Ion	Ratio	Lower	Upper
93	100		
63	75.1	60.1	90.1
95	31.8	25.4	38.2

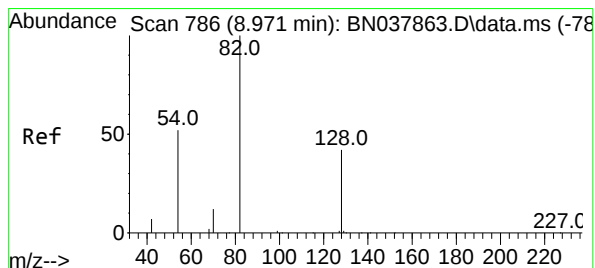
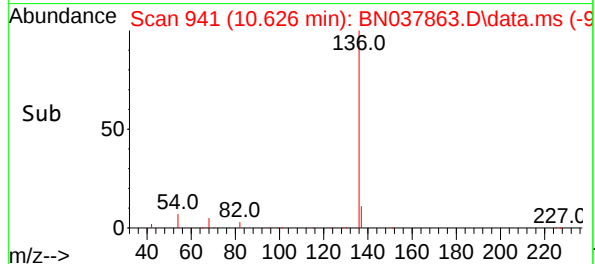
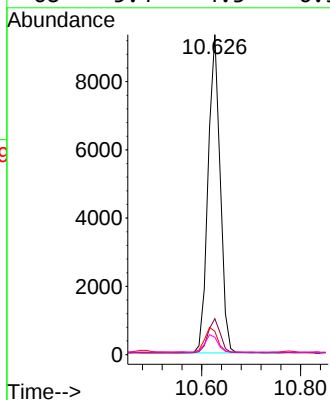
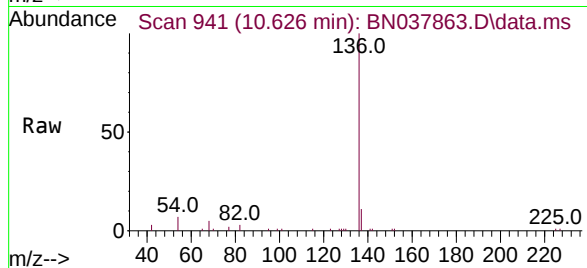




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

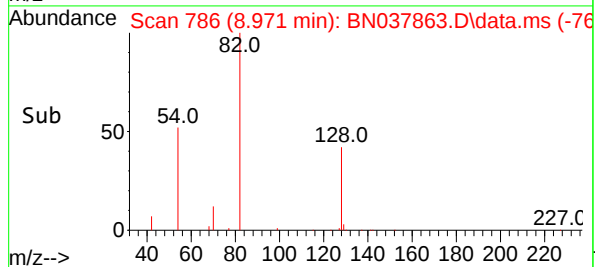
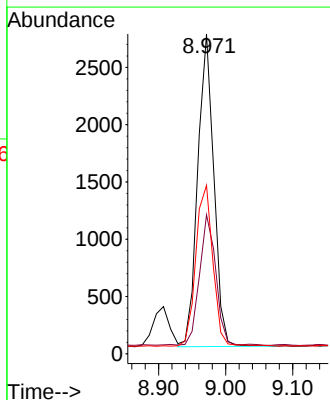
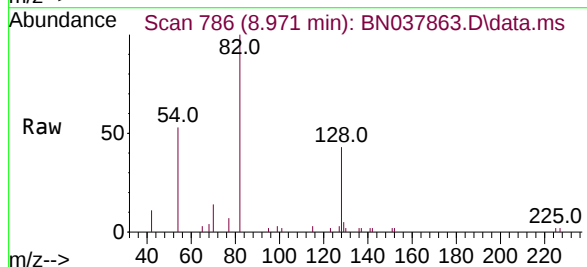
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

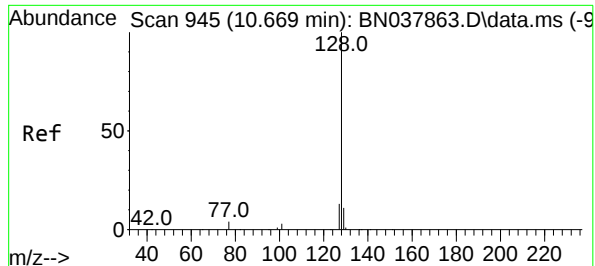
Tgt Ion:	136	Resp:	15792
Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	7.3	5.8	8.8
68	5.4	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.971 min Scan# 786
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:	82	Resp:	4566
Ion	Ratio	Lower	Upper
82	100		
128	43.5	34.8	52.2
54	52.7	42.2	63.2

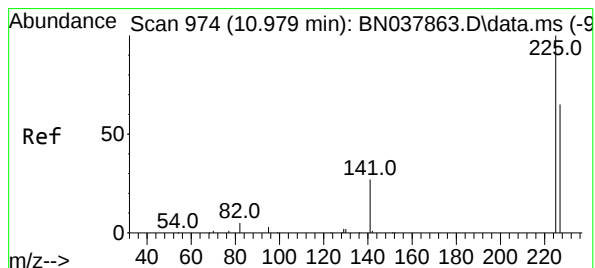
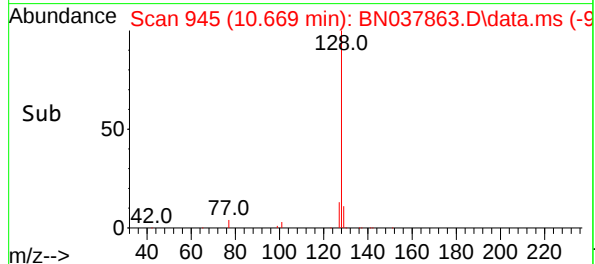
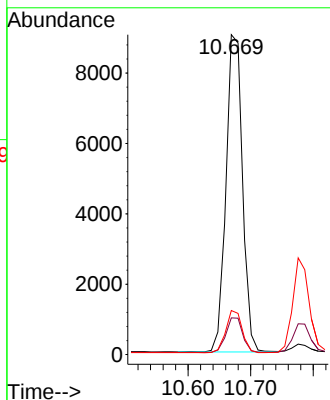
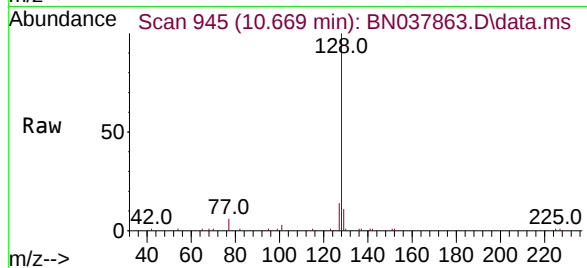




#9
Naphthalene
Concen: 0.380 ng
RT: 10.669 min Scan# 945
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

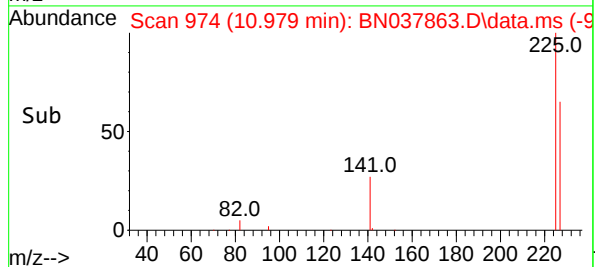
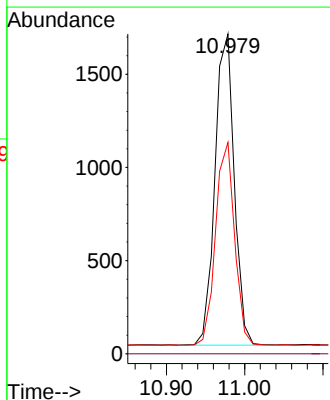
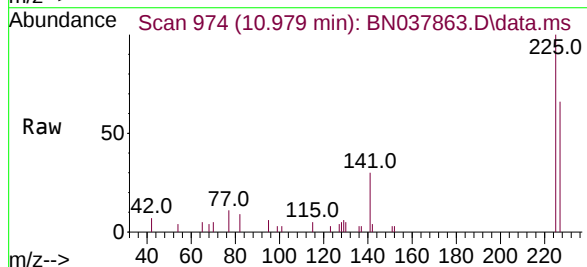
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

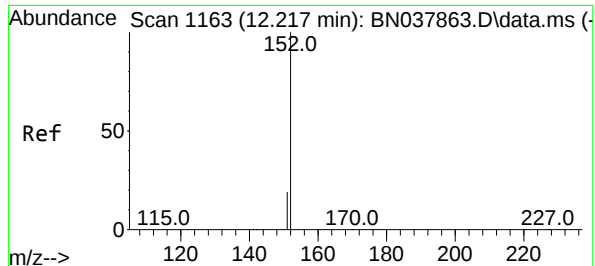
Tgt Ion	128	129	127
Resp:	16547		
Ion Ratio	100	11.5	13.8
Lower		9.2	11.0
Upper		13.8	16.6



#10
Hexachlorobutadiene
Concen: 0.387 ng
RT: 10.979 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	225	223	227
Resp:	2874		
Ion Ratio	100	0.0	64.3
Lower		0.0	51.4
Upper		0.0	77.2

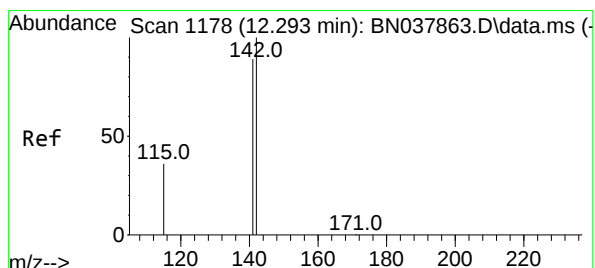
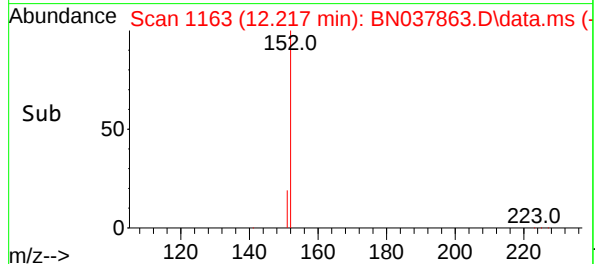
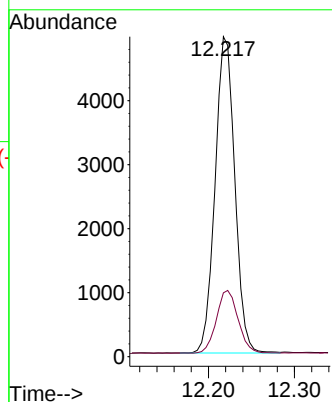
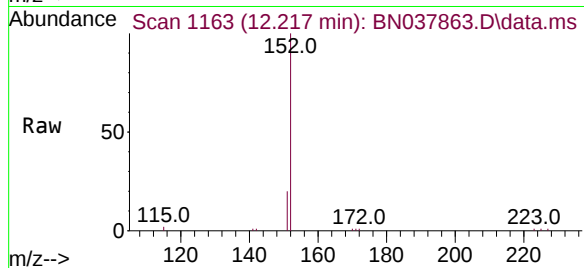




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 12.217 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

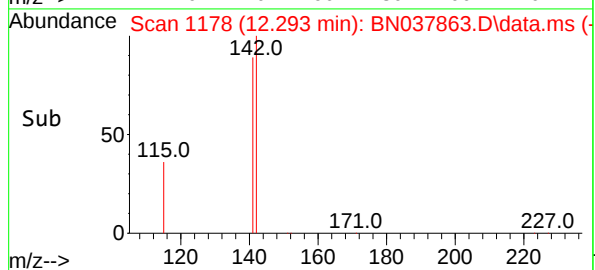
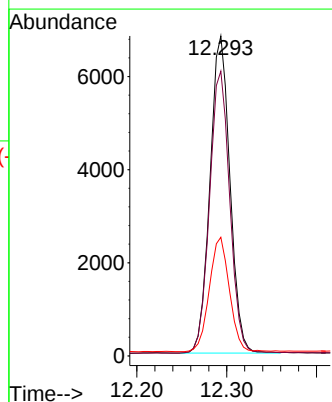
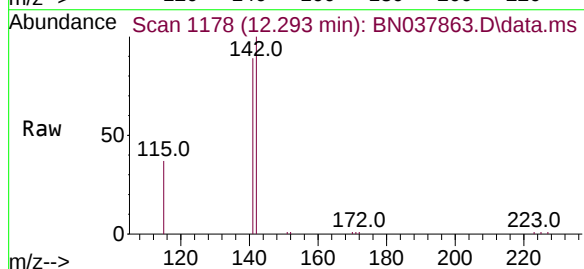
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

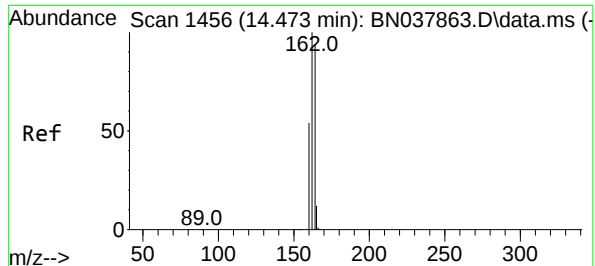
Tgt Ion:152 Resp: 7877
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 12.293 min Scan# 1178
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:142 Resp: 10542
Ion Ratio Lower Upper
142 100
141 89.0 71.2 106.8
115 37.1 29.7 44.5

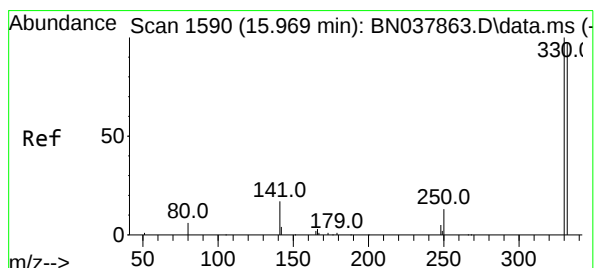
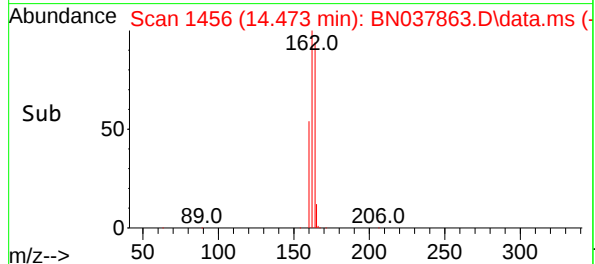
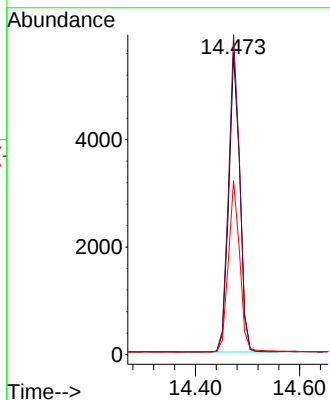
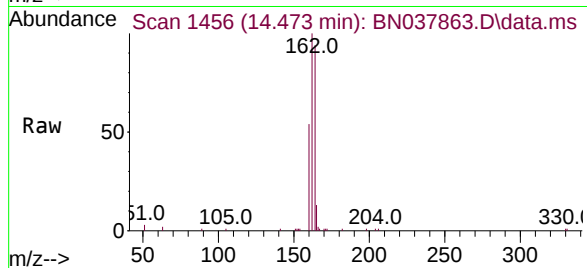




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

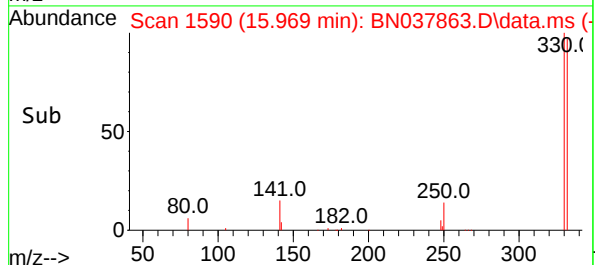
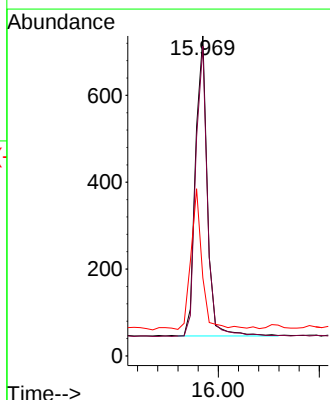
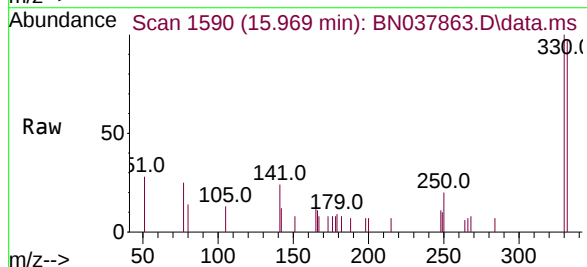
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

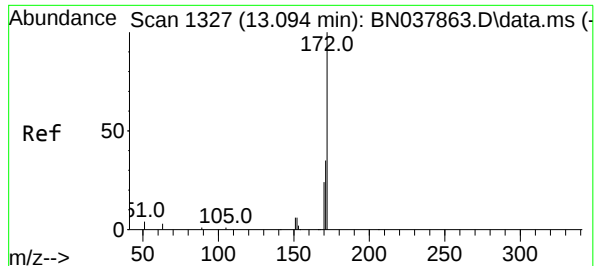
Tgt Ion:164 Resp: 8247
Ion Ratio Lower Upper
164 100
162 106.0 84.8 127.2
160 57.6 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:330 Resp: 1117
Ion Ratio Lower Upper
330 100
332 96.4 77.2 115.8
141 46.4 37.2 55.8

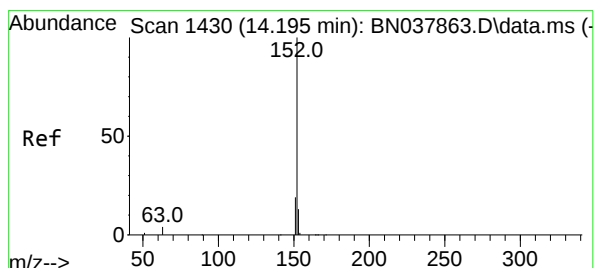
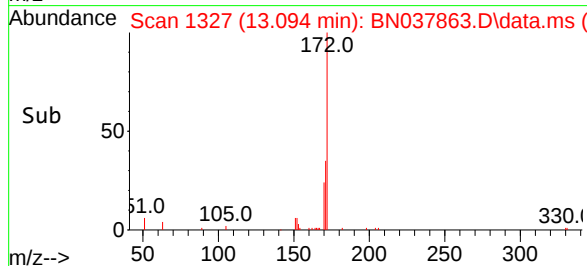
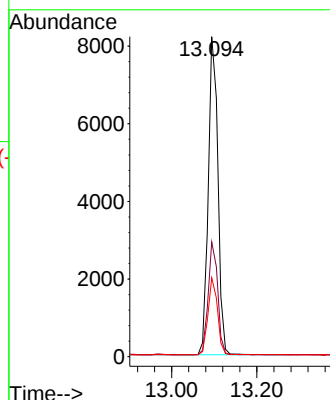
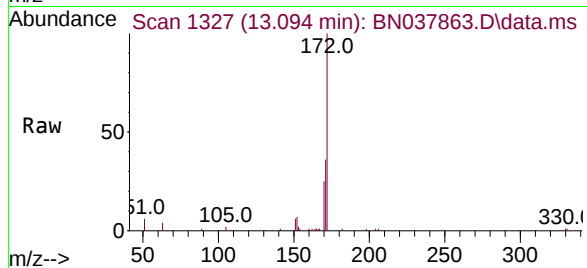




#15
2-Fluorobiphenyl
Concen: 0.381 ng
RT: 13.094 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

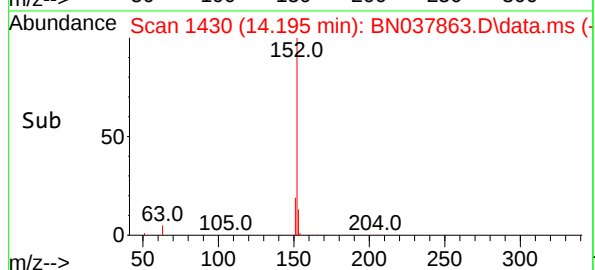
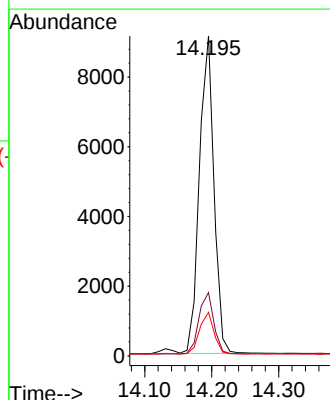
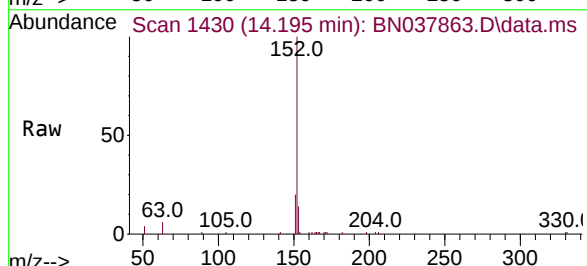
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

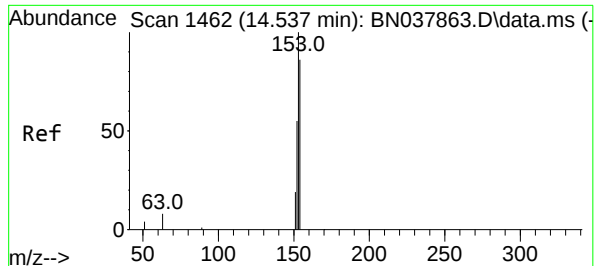
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.6	19.7	29.5



#16
Acenaphthylene
Concen: 0.366 ng
RT: 14.195 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.1	10.5	15.7

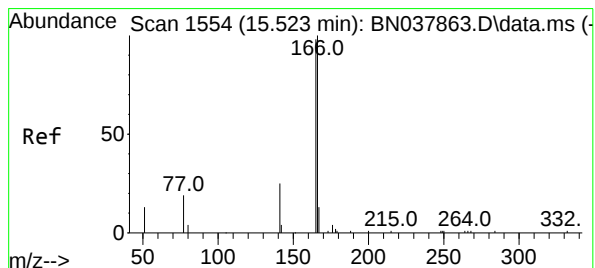
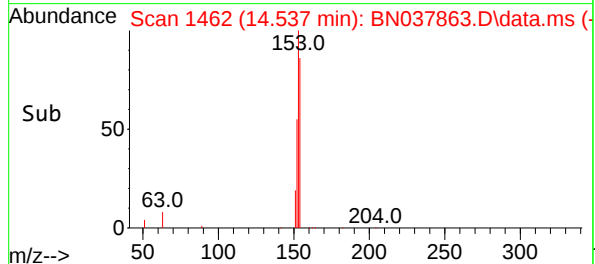
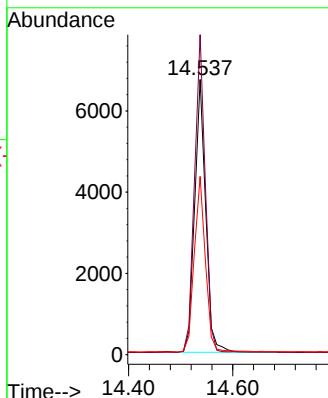
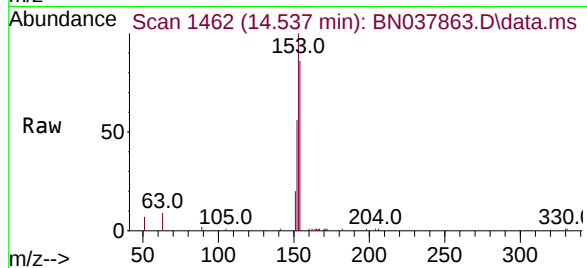




#17
Acenaphthene
Concen: 0.370 ng
RT: 14.537 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

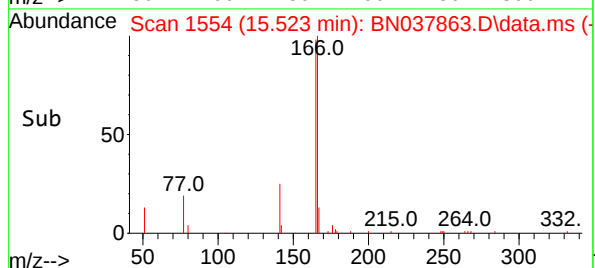
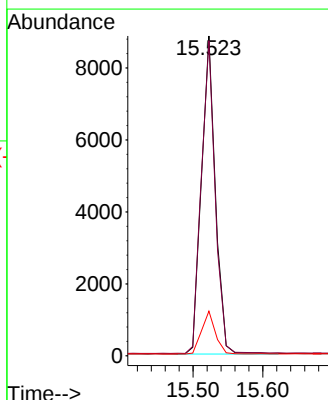
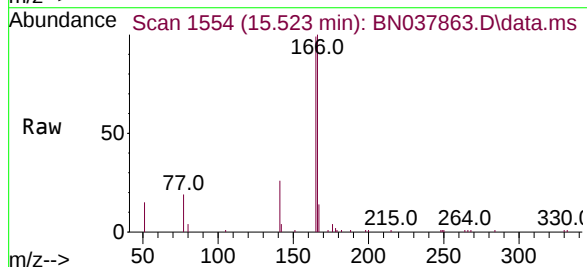
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

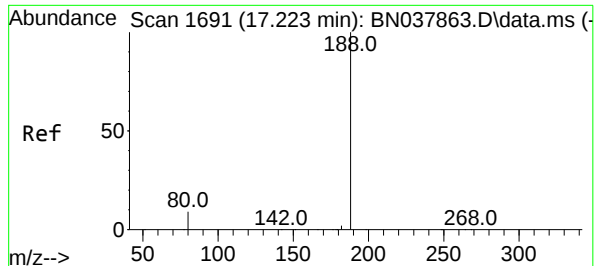
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.1	90.5	135.7
152	64.8	51.8	77.8



#18
Fluorene
Concen: 0.371 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.0	79.0	118.4
167	13.3	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

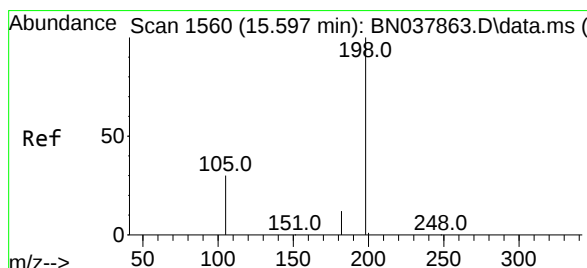
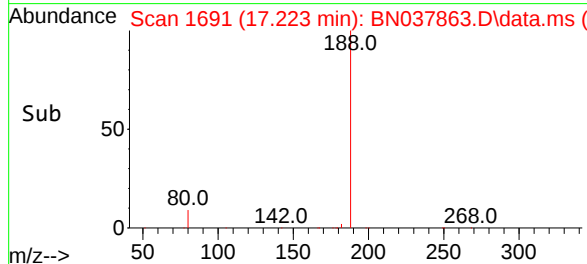
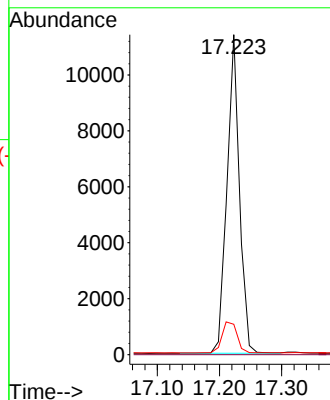
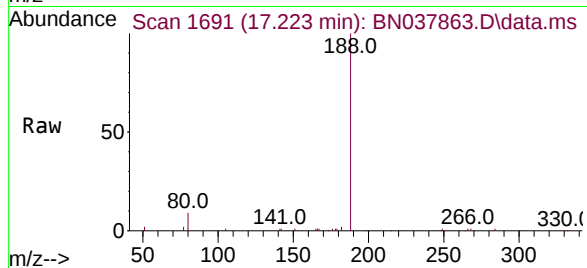
Tgt Ion:188 Resp: 15939

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.406 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

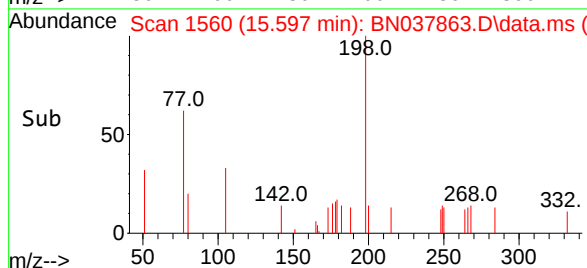
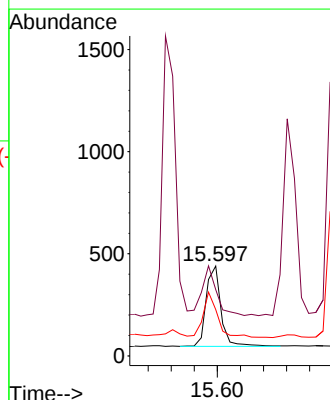
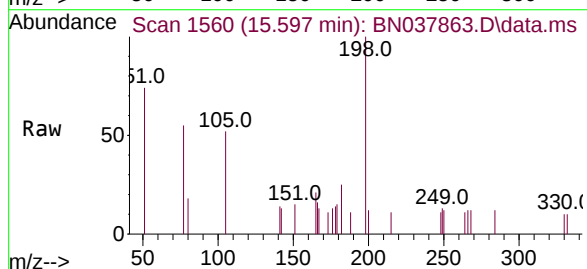
Tgt Ion:198 Resp: 696

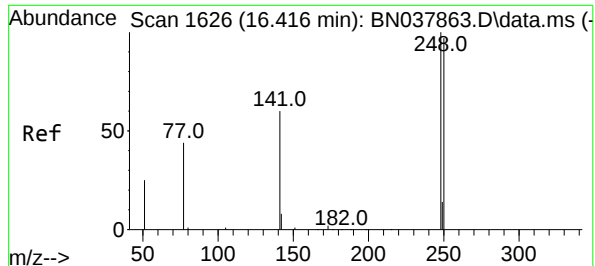
Ion Ratio Lower Upper

198 100

51 73.9 59.1 88.7

105 51.6 41.3 61.9

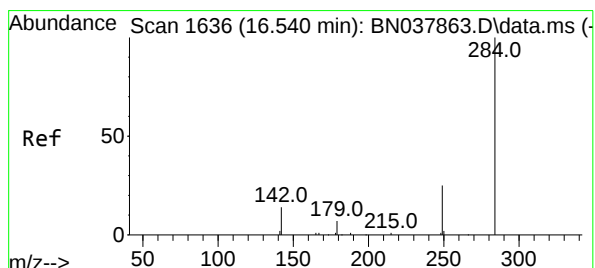
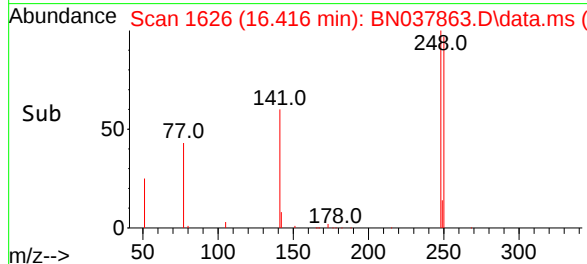
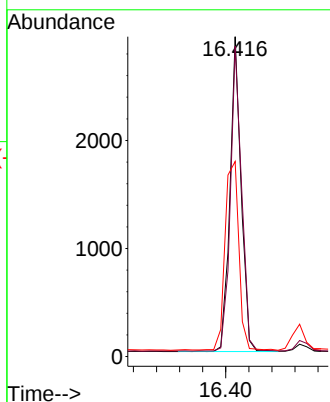
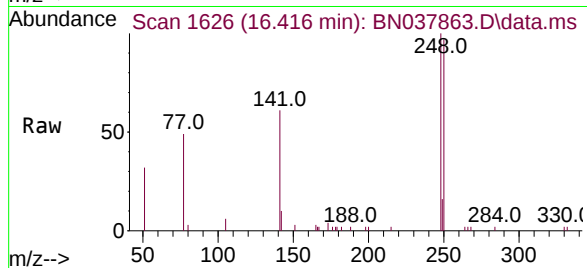




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.416 min Scan# 1626
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

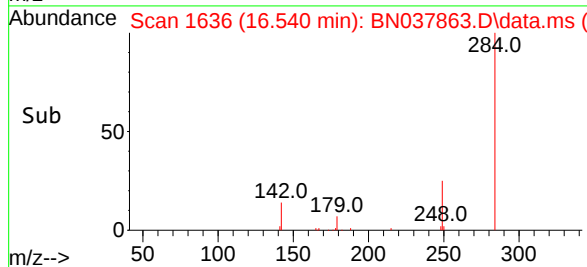
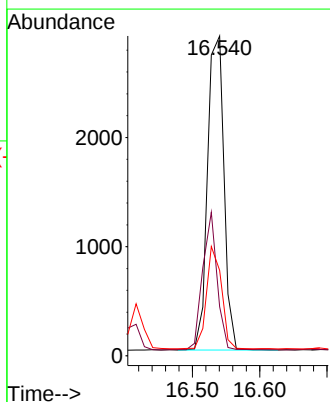
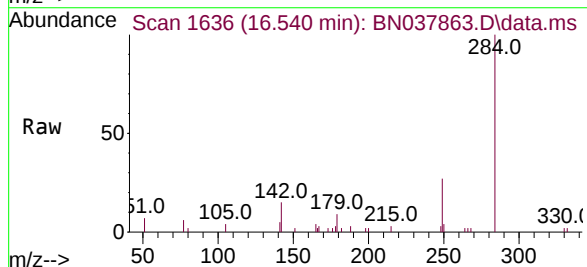
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

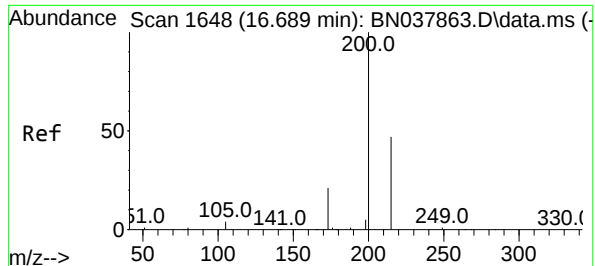
Tgt Ion	248	Ratio	100	Lower	Upper
248	100				
250	97.0		77.6		116.4
141	61.0		48.8		73.2



#22
Hexachlorobenzene
Concen: 0.385 ng
RT: 16.540 min Scan# 1636
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	284	Ratio	100	Lower	Upper
284	100				
142	38.6		30.9		46.3
249	29.9		23.9		35.9

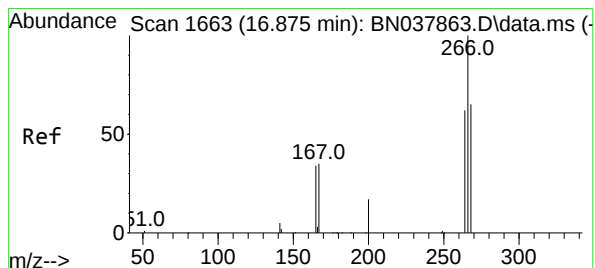
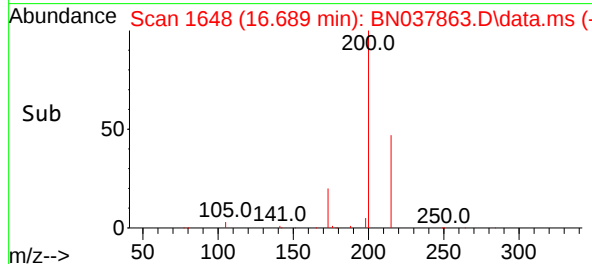
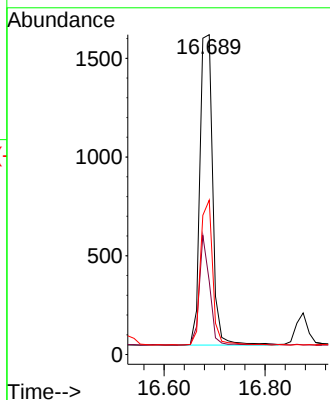
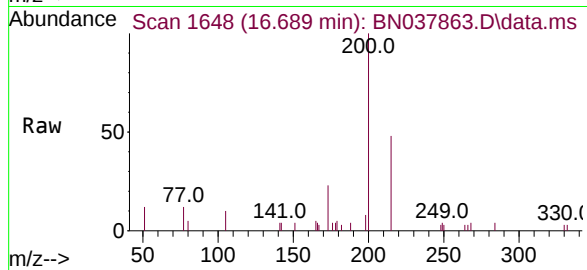




#23
Atrazine
Concen: 0.346 ng
RT: 16.689 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

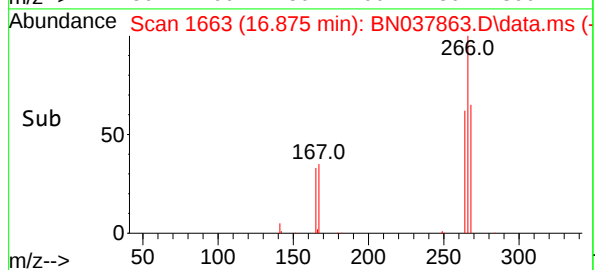
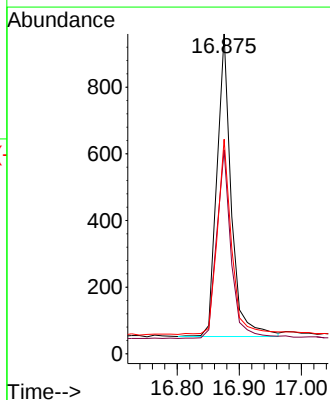
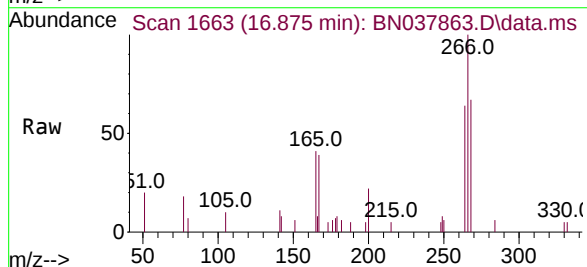
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

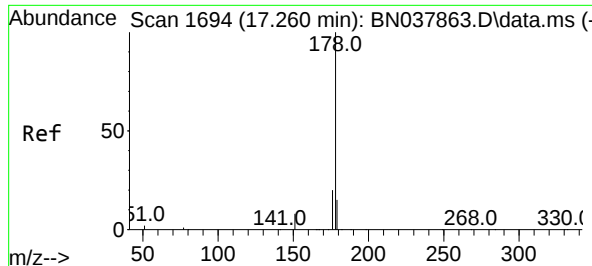
Tgt Ion:200 Resp: 2739
Ion Ratio Lower Upper
200 100
173 22.9 18.3 27.5
215 48.3 38.6 58.0



#24
Pentachlorophenol
Concen: 0.339 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion:266 Resp: 1466
Ion Ratio Lower Upper
266 100
264 63.6 50.9 76.3
268 67.9 54.3 81.5





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

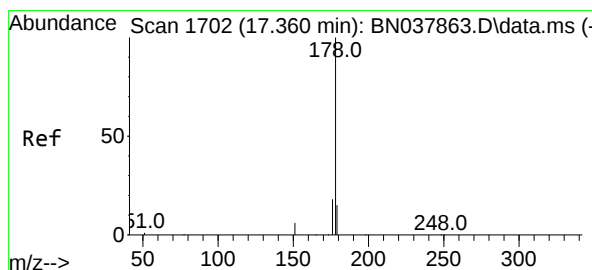
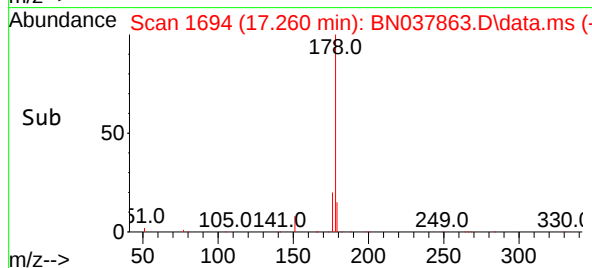
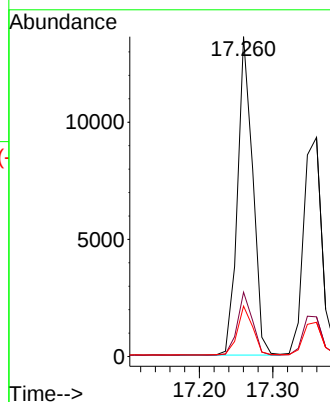
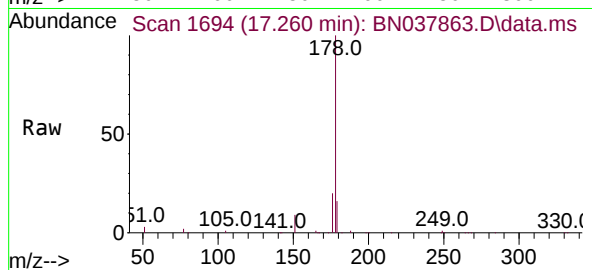
Tgt Ion:178 Resp: 19609

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.358 ng

RT: 17.360 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

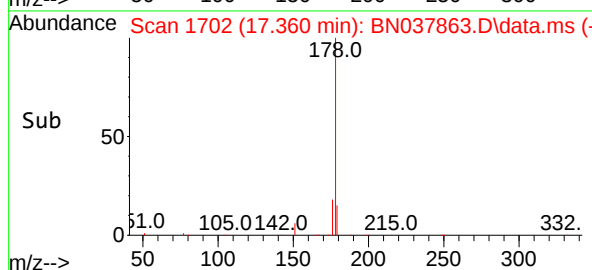
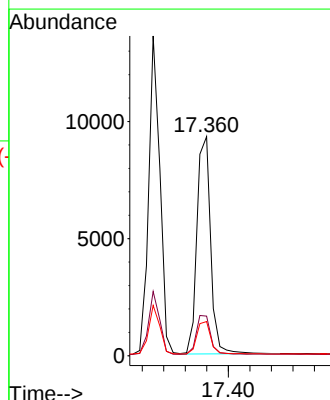
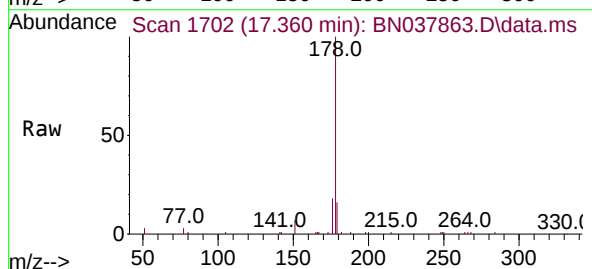
Tgt Ion:178 Resp: 16310

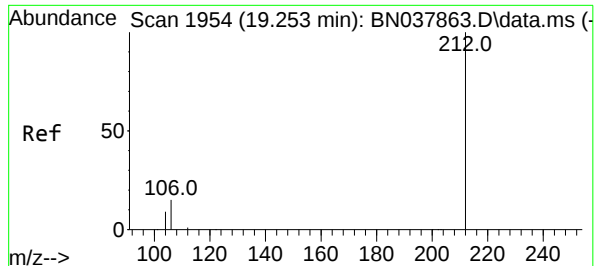
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

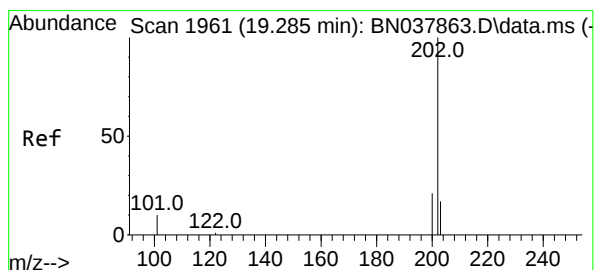
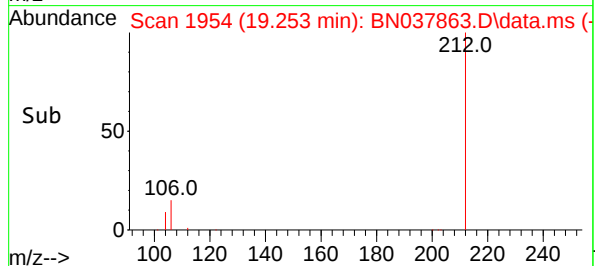
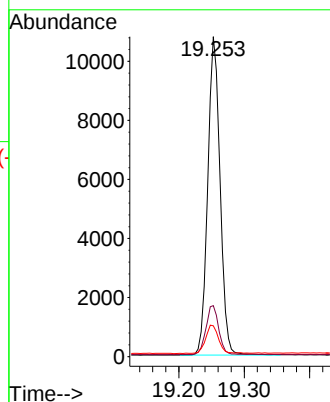
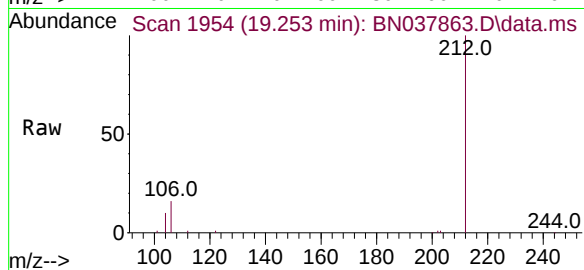
Tgt Ion:212 Resp: 14130

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.2 7.4 11.0



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

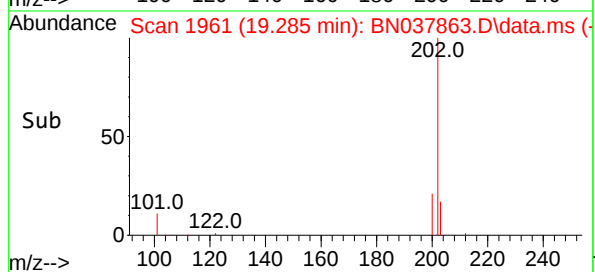
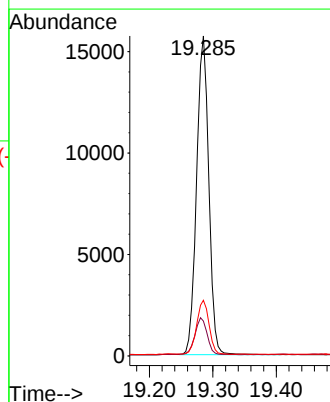
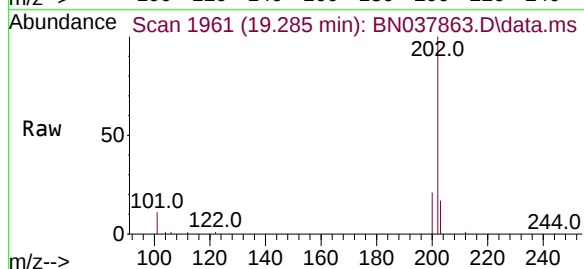
Tgt Ion:202 Resp: 20902

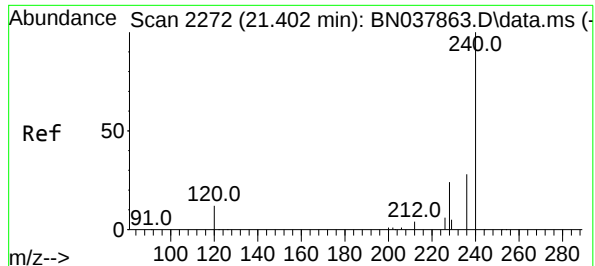
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

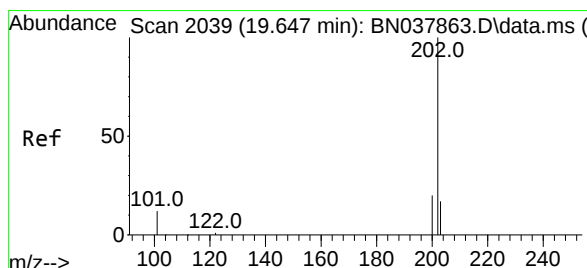
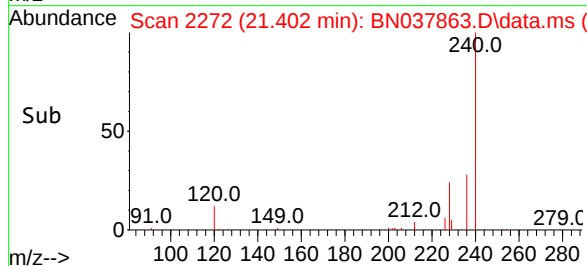
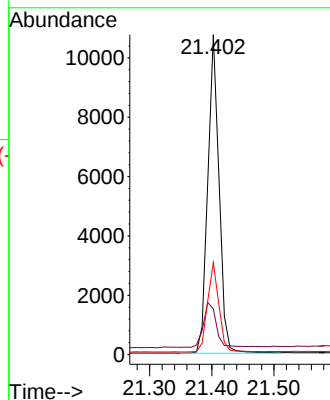
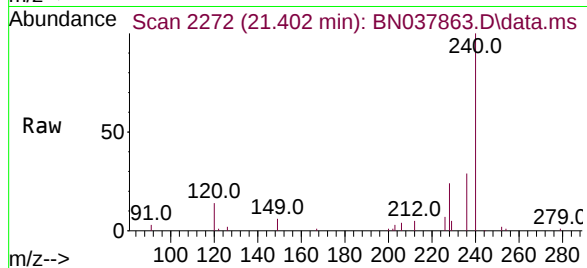
Tgt Ion:240 Resp: 13579

Ion Ratio Lower Upper

240 100

120 14.3 11.4 17.2

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.385 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

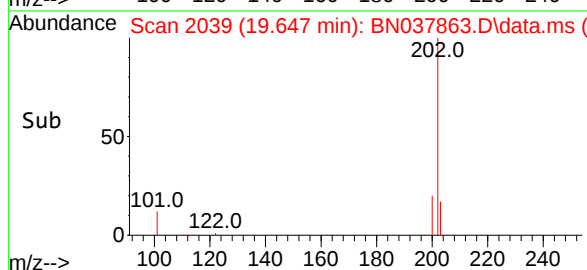
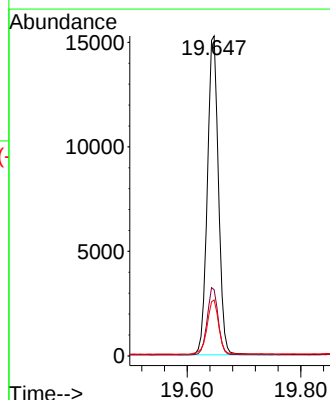
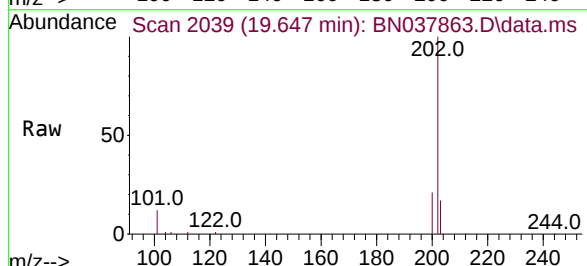
Tgt Ion:202 Resp: 20652

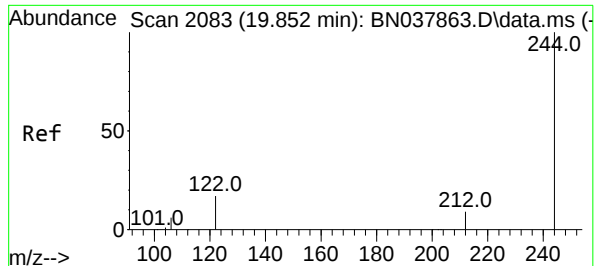
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

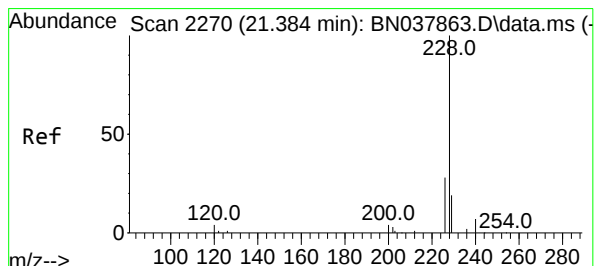
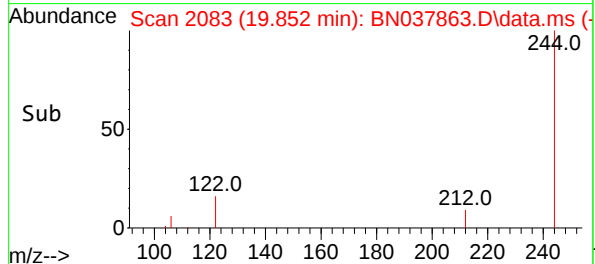
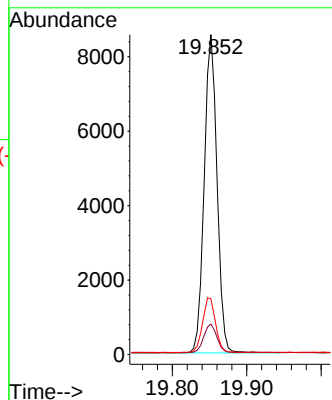
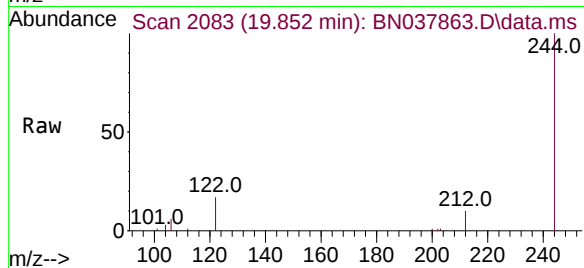




#31
Terphenyl-d14
Concen: 0.378 ng
RT: 19.852 min Scan# 2083
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

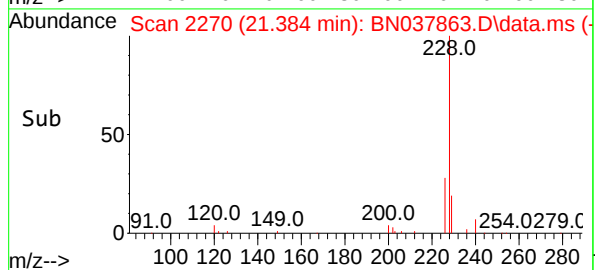
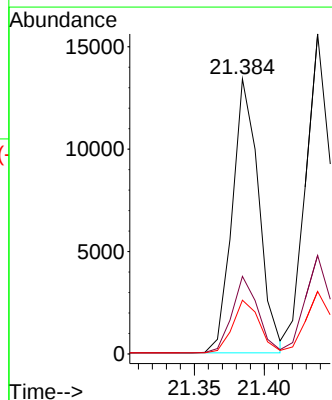
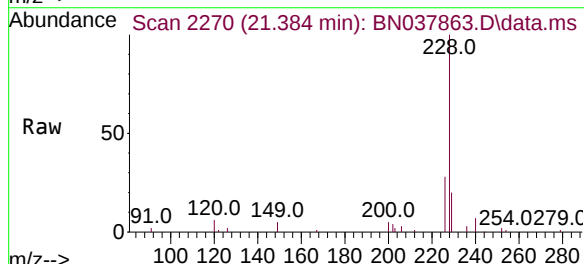
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

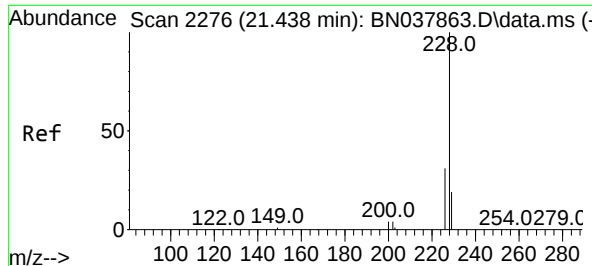
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.6	11.4
122	17.4	13.9	20.9



#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.384 min Scan# 2270
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.5	15.6	23.4





#33

Chrysene

Concen: 0.387 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

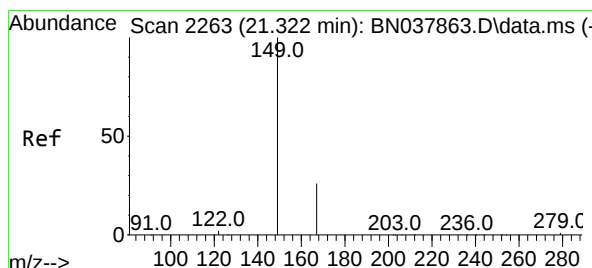
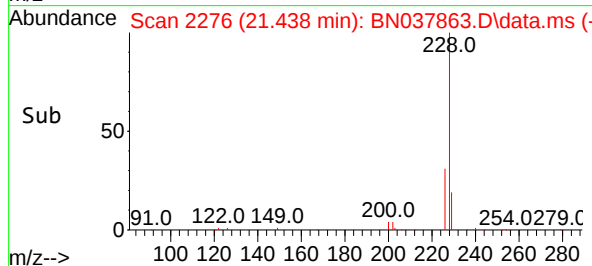
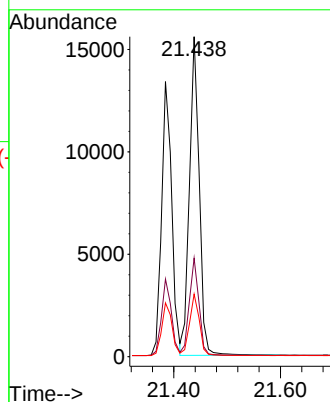
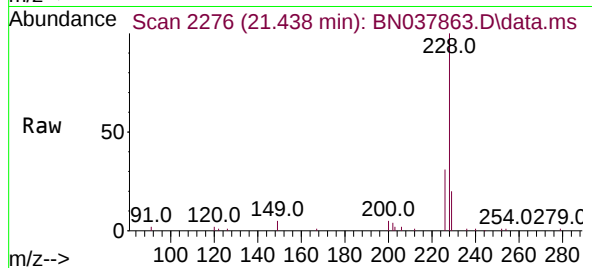
Tgt Ion:228 Resp: 19852

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

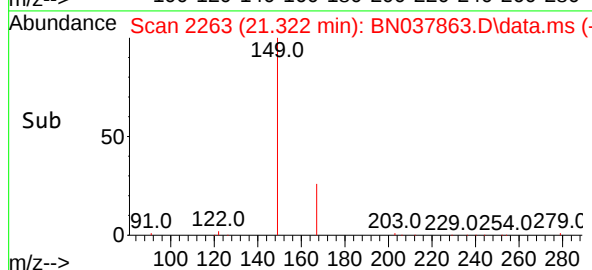
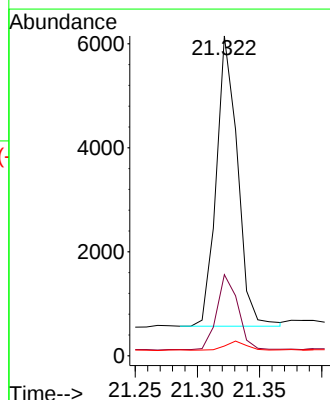
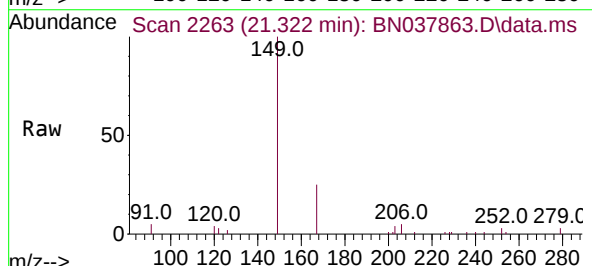
Tgt Ion:149 Resp: 6617

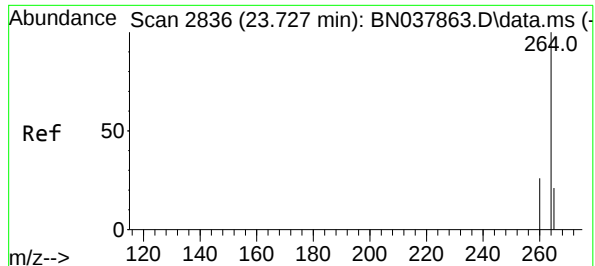
Ion Ratio Lower Upper

149 100

167 26.2 20.4 30.6

279 3.1 2.4 3.6

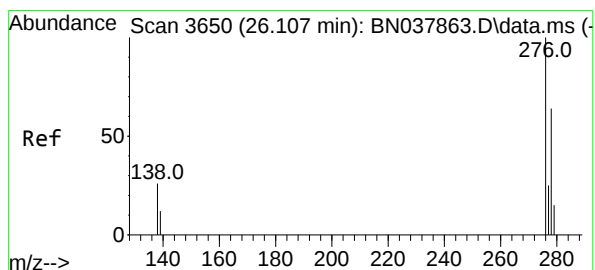
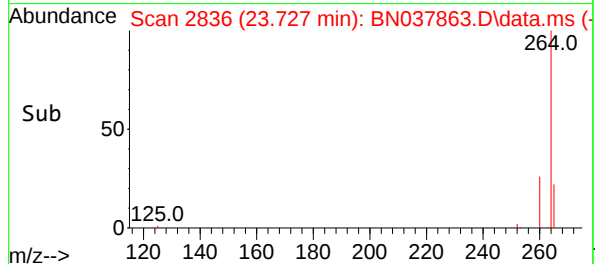
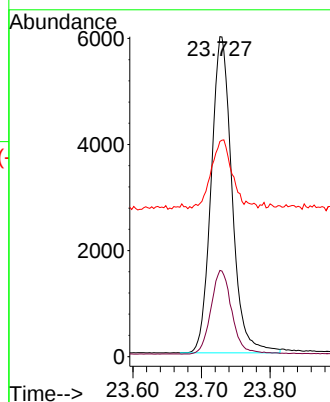
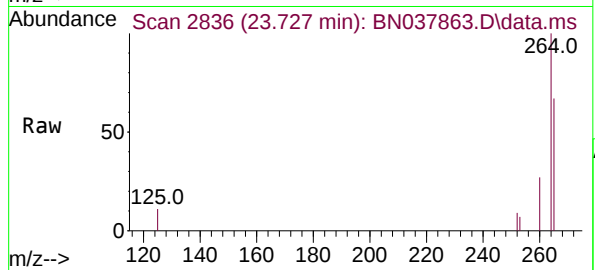




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.727 min Scan# 2836
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

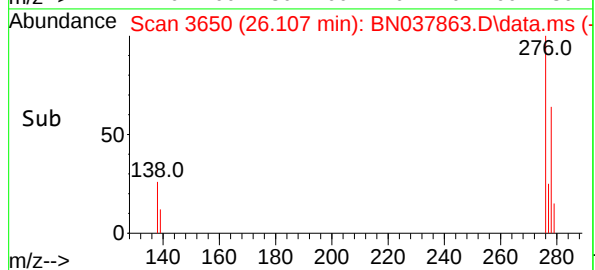
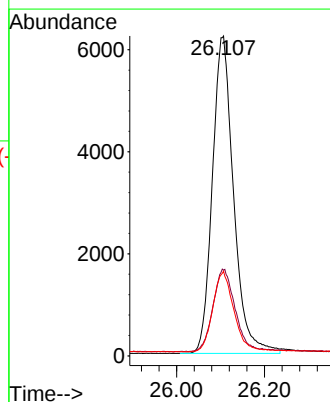
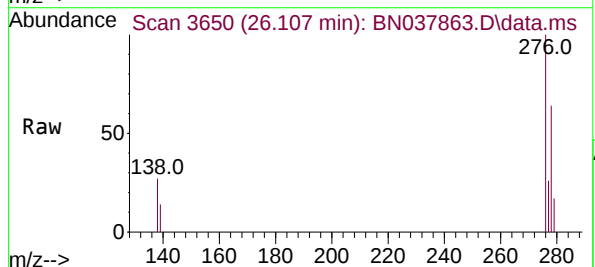
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

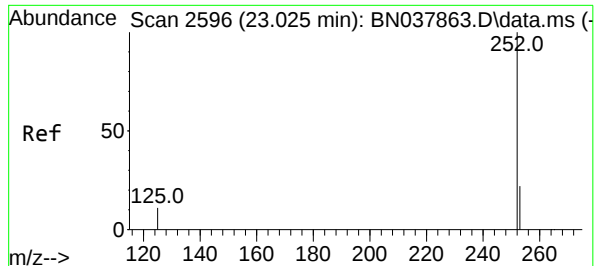
Tgt Ion	264	260	265
Resp:	12579		
Ion Ratio	100	26.9	67.2
Lower		21.5	53.8
Upper		32.3	80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.363 ng
RT: 26.107 min Scan# 3650
Delta R.T. 0.000 min
Lab File: BN037863.D
Acq: 23 Sep 2025 13:25

Tgt Ion	276	138	277
Resp:	20858		
Ion Ratio	100	26.7	25.4
Lower		21.4	20.3
Upper		32.0	30.5





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

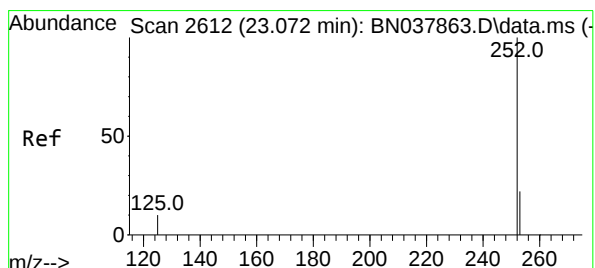
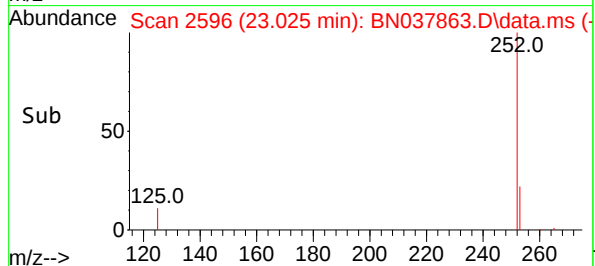
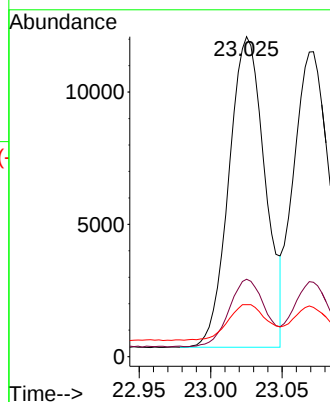
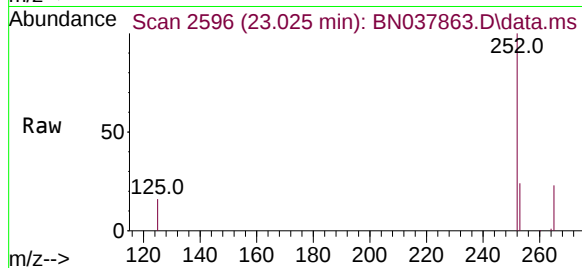
Tgt Ion:252 Resp: 20638

Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 16.2 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.072 min Scan# 2612

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

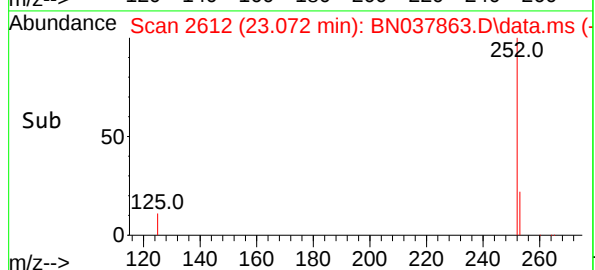
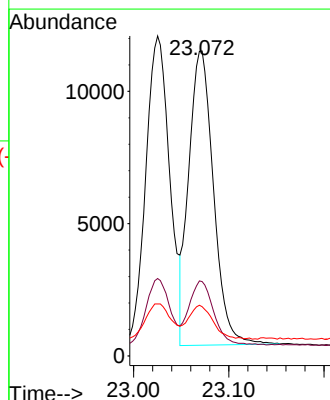
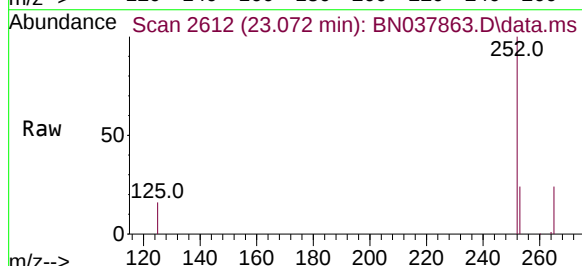
Tgt Ion:252 Resp: 20090

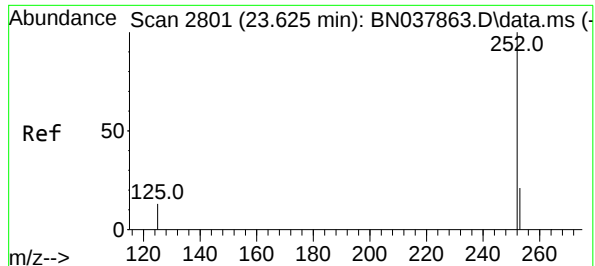
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.625 min Scan# 2801

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

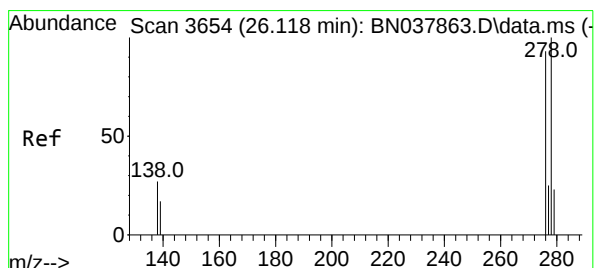
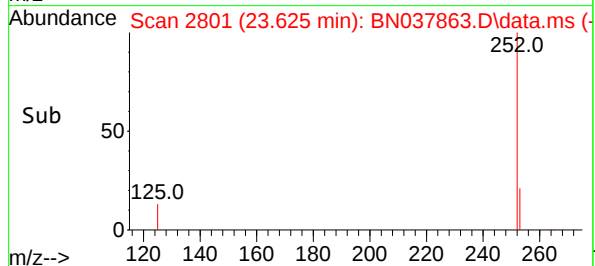
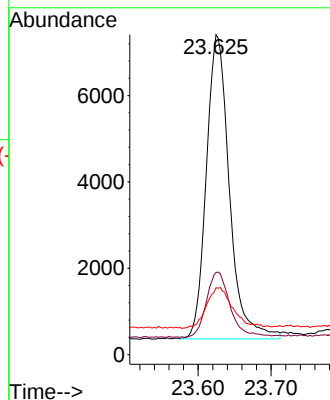
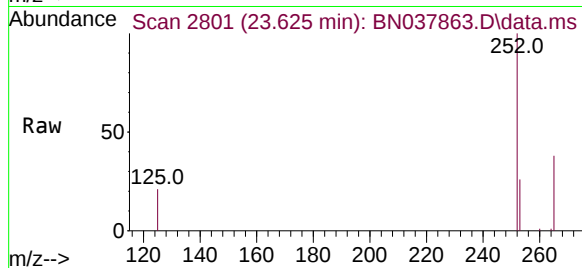
Tgt Ion:252 Resp: 15479

Ion Ratio Lower Upper

252 100

253 25.7 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

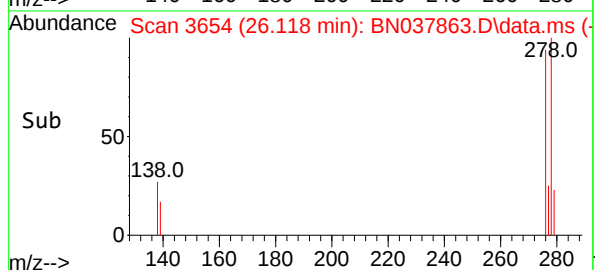
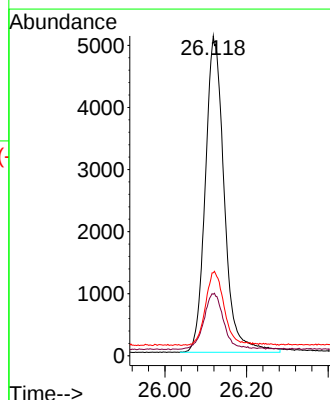
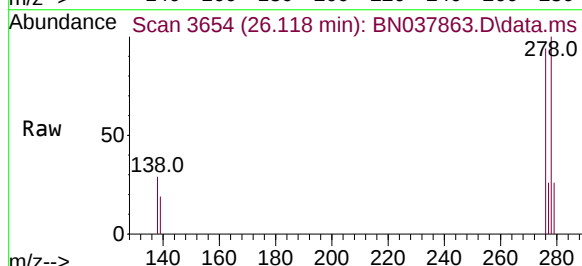
Tgt Ion:278 Resp: 16392

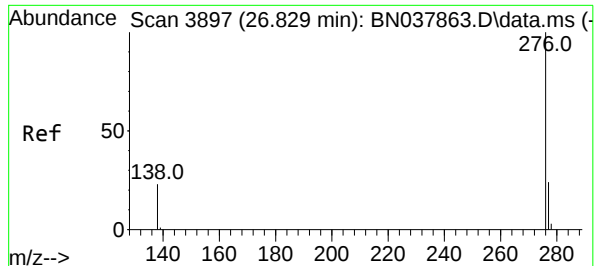
Ion Ratio Lower Upper

278 100

139 19.3 15.4 23.2

279 26.0 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.829 min Scan# 38

Delta R.T. 0.000 min

Lab File: BN037863.D

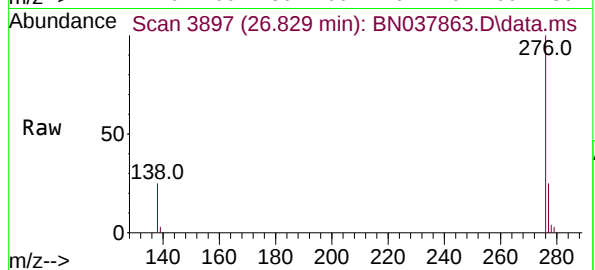
Acq: 23 Sep 2025 13:25

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



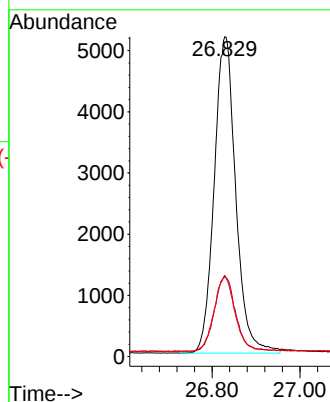
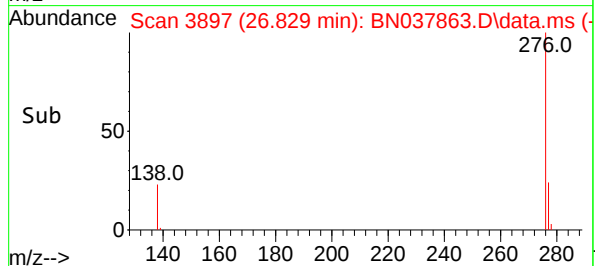
Tgt Ion:276 Resp: 17656

Ion Ratio Lower Upper

276 100

277 25.3 20.2 30.4

138 24.8 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037864.D
 Acq On : 23 Sep 2025 14:02
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Sep 23 16:22:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

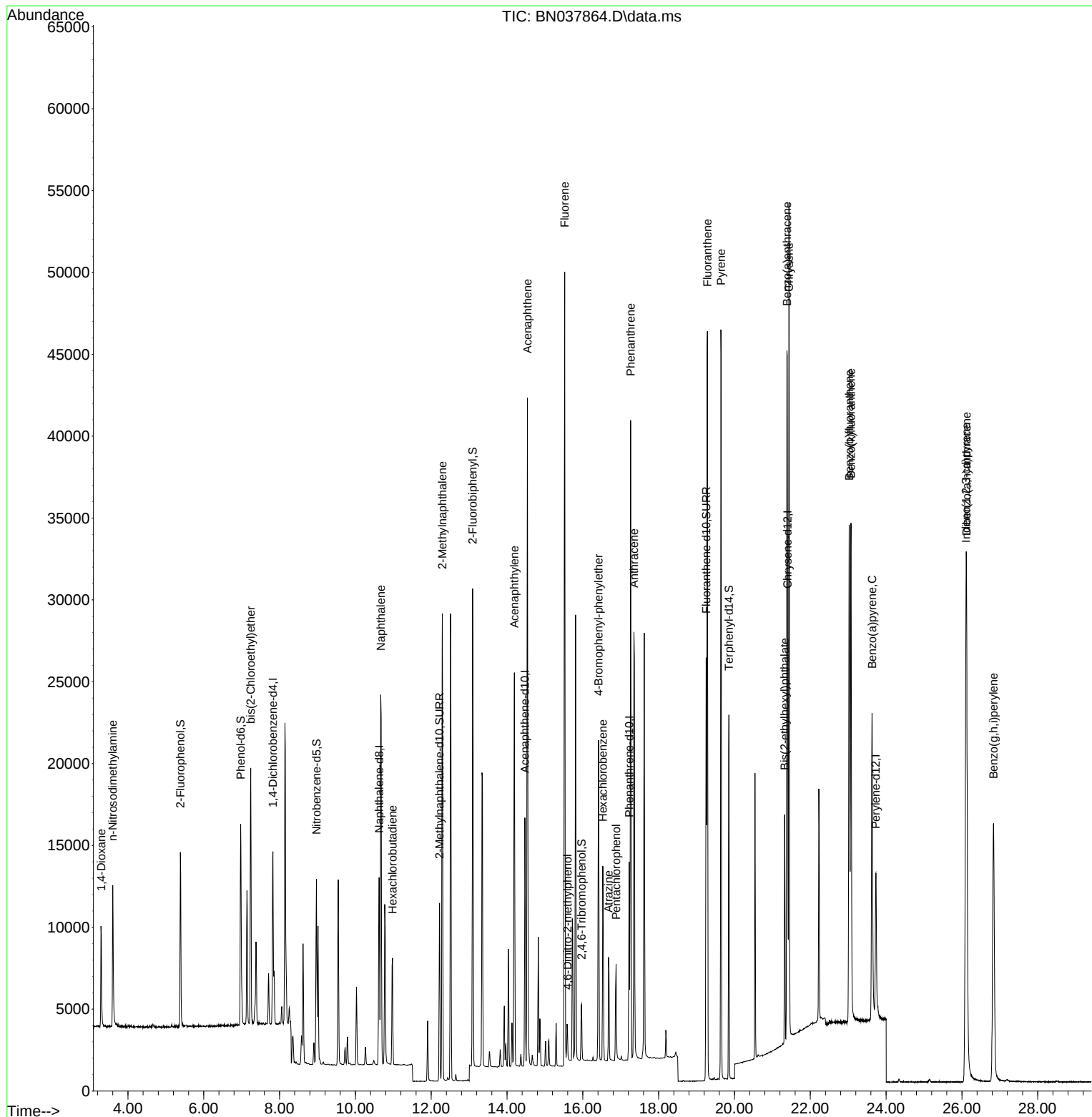
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5204	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	14715	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	7889	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15207	0.400	ng	0.00
29) Chrysene-d12	21.402	240	13674	0.400	ng	0.00
35) Perylene-d12	23.730	264	12464	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.384	112	8737	0.736	ng	0.00
5) Phenol-d6	6.973	99	11319	0.725	ng	0.00
8) Nitrobenzene-d5	8.971	82	8536	0.761	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	14822	0.725	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	2186	0.687	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	24413	0.756	ng	0.00
27) Fluoranthene-d10	19.252	212	27365	0.715	ng	0.00
31) Terphenyl-d14	19.852	244	20095	0.738	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	4191	0.793	ng	98
3) n-Nitrosodimethylamine	3.600	42	5472	0.779	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	11096	0.766	ng	99
9) Naphthalene	10.669	128	30935	0.763	ng	99
10) Hexachlorobutadiene	10.979	225	5393	0.780	ng	# 99
12) 2-Methylnaphthalene	12.293	142	20065	0.758	ng	99
16) Acenaphthylene	14.195	152	26510	0.740	ng	99
17) Acenaphthene	14.537	154	19057	0.747	ng	100
18) Fluorene	15.522	166	23130	0.749	ng	99
20) 4,6-Dinitro-2-methylph...	15.597	198	1414	0.755	ng	# 77
21) 4-Bromophenyl-phenylether	16.416	248	7412	0.748	ng	98
22) Hexachlorobenzene	16.528	284	9138	0.761	ng	99
23) Atrazine	16.677	200	5405	0.716	ng	# 87
24) Pentachlorophenol	16.875	266	2945	0.714	ng	97
25) Phenanthrene	17.260	178	37218	0.744	ng	99
26) Anthracene	17.347	178	32138	0.740	ng	100
28) Fluoranthene	19.285	202	41292	0.749	ng	100
30) Pyrene	19.643	202	40377	0.748	ng	100
32) Benzo(a)anthracene	21.384	228	35130	0.735	ng	100
33) Chrysene	21.438	228	39541	0.765	ng	100
34) Bis(2-ethylhexyl)phtha...	21.322	149	13026	0.689	ng	99
36) Indeno(1,2,3-cd)pyrene	26.107	276	42560	0.747	ng	100
37) Benzo(b)fluoranthene	23.025	252	39646	0.738	ng	96
38) Benzo(k)fluoranthene	23.075	252	40574	0.750	ng	96
39) Benzo(a)pyrene	23.627	252	31265	0.735	ng	94
40) Dibenzo(a,h)anthracene	26.121	278	33235	0.747	ng	98
41) Benzo(g,h,i)perylene	26.835	276	34817	0.745	ng	98

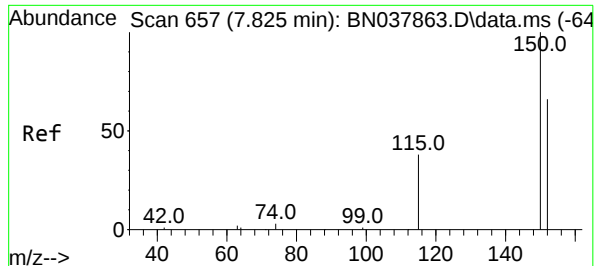
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037864.D
Acq On : 23 Sep 2025 14:02
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

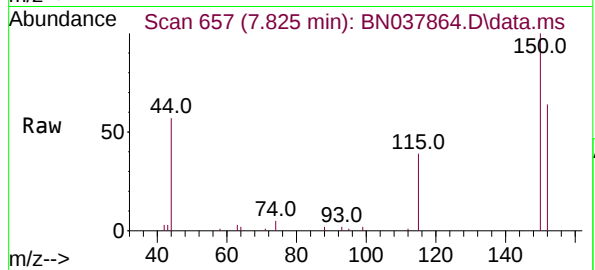
Quant Time: Sep 23 16:22:19 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



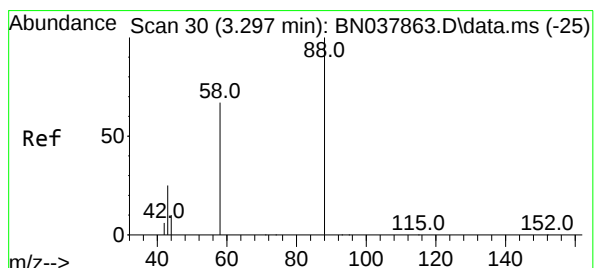
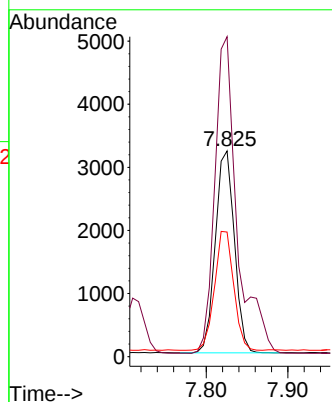
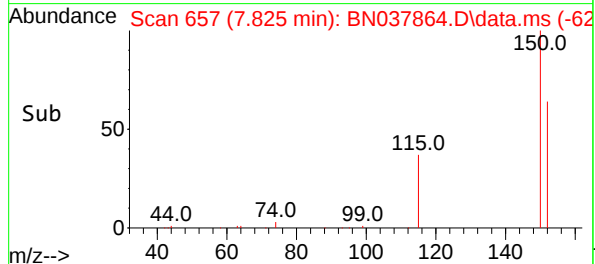


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

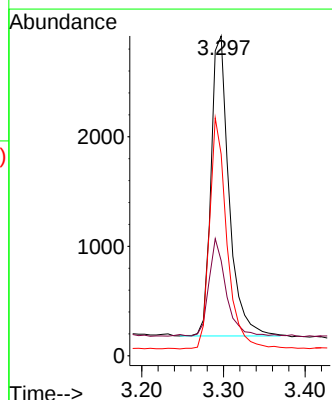
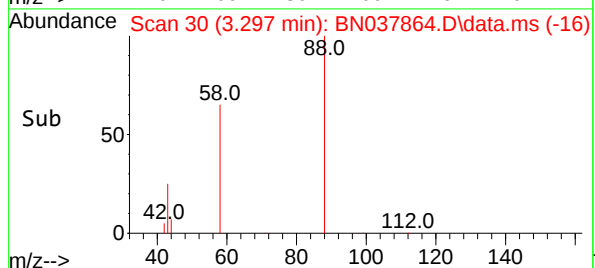
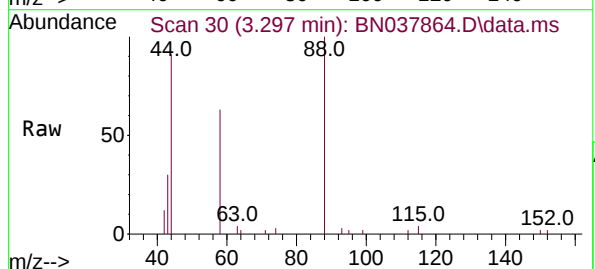


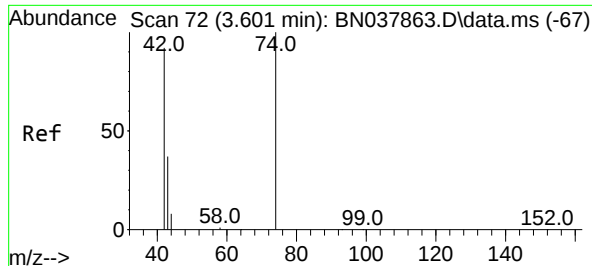
Tgt Ion:152 Resp: 5204
Ion Ratio Lower Upper
152 100
150 155.6 121.0 181.4
115 60.6 47.4 71.0



#2
1,4-Dioxane
Concen: 0.793 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 88 Resp: 4191
Ion Ratio Lower Upper
88 100
43 30.7 26.6 39.8
58 74.2 58.9 88.3

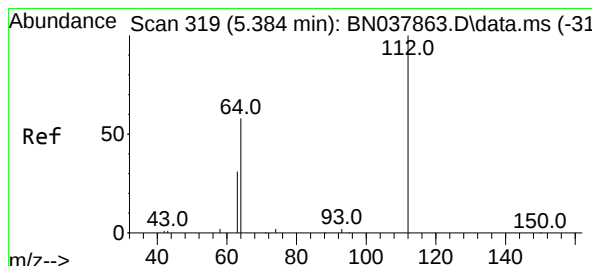
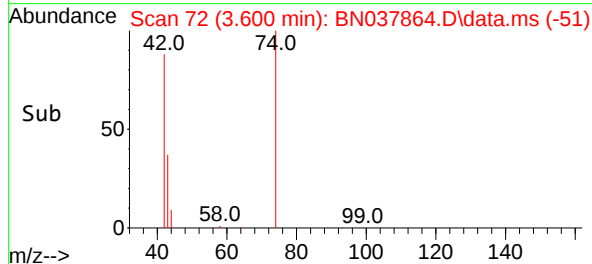
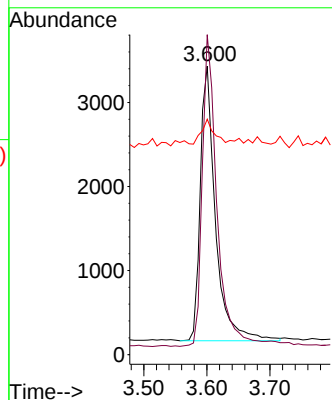
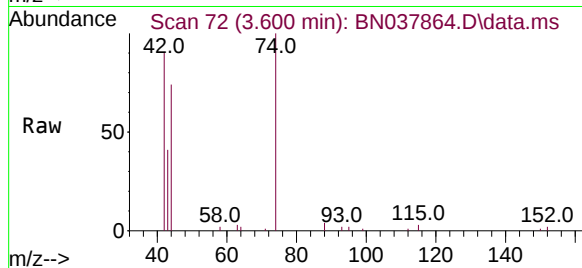




#3
n-Nitrosodimethylamine
Concen: 0.779 ng
RT: 3.600 min Scan# 72
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

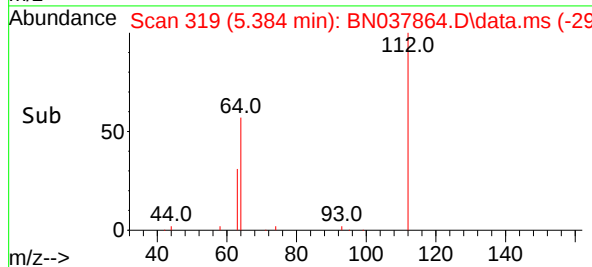
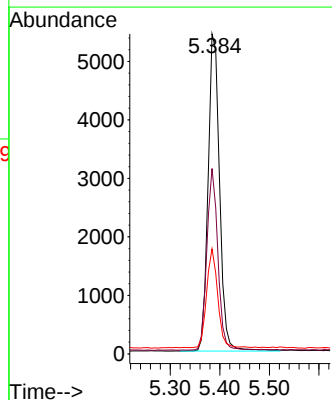
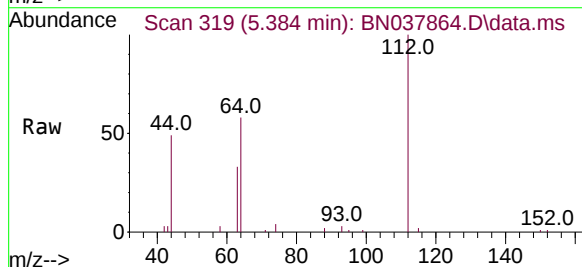
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

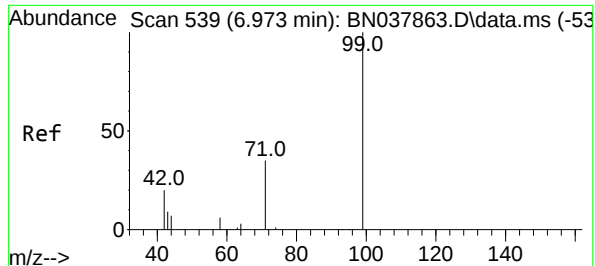
Tgt Ion: 42 Resp: 5472
Ion Ratio Lower Upper
42 100
74 111.5 93.4 140.0
44 7.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.736 ng
RT: 5.384 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion: 112 Resp: 8737
Ion Ratio Lower Upper
112 100
64 54.9 44.6 66.8
63 29.8 24.9 37.3

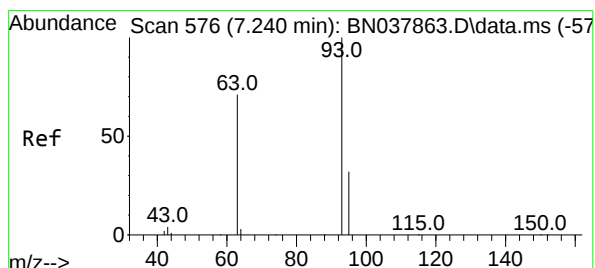
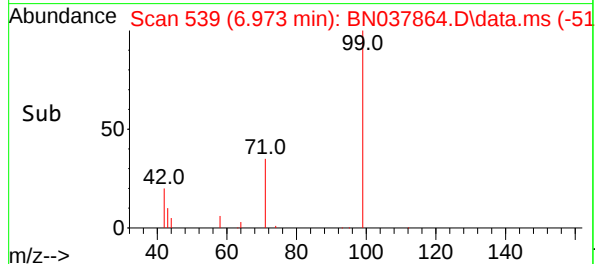
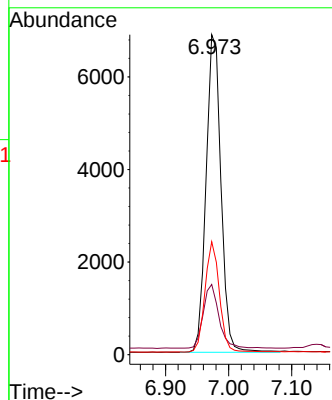
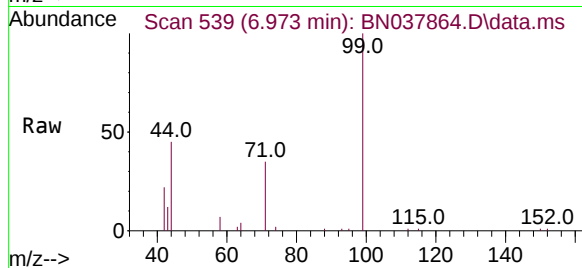




#5
Phenol-d6
Concen: 0.725 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

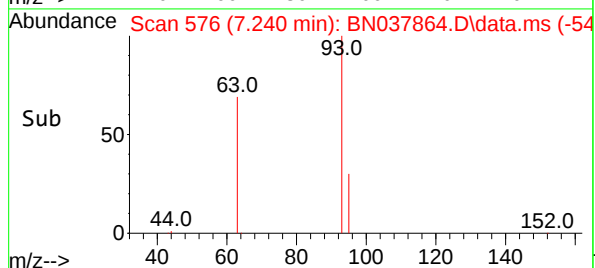
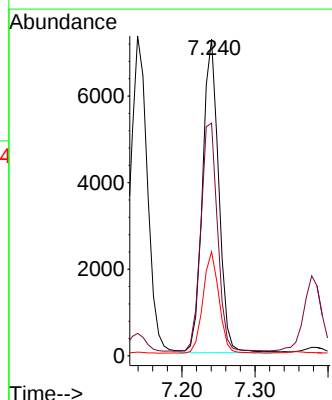
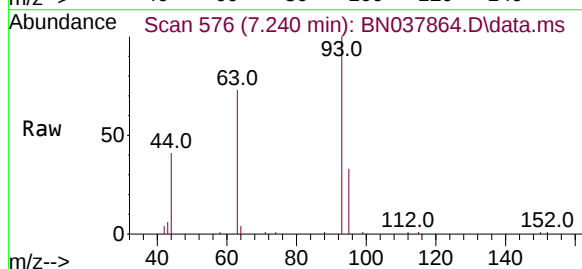
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

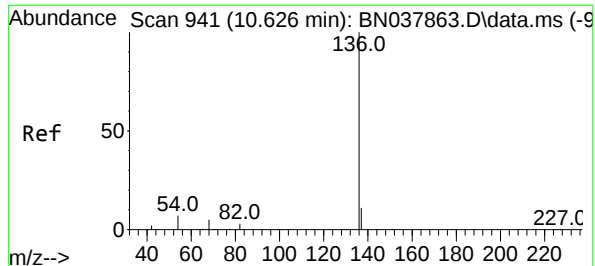
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.766 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.5	60.1	90.1
95	32.2	25.4	38.2

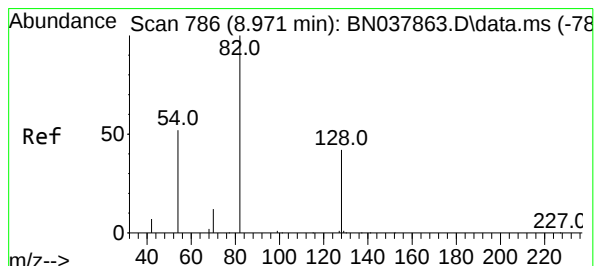
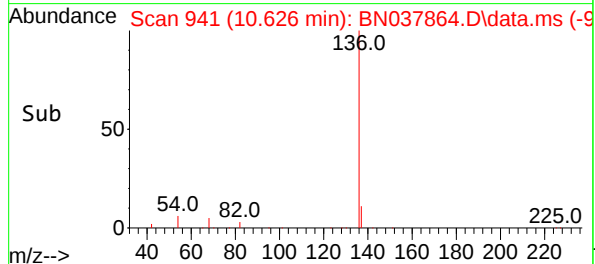
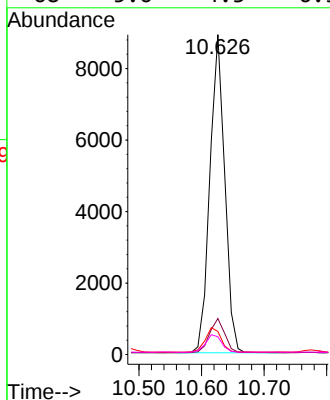
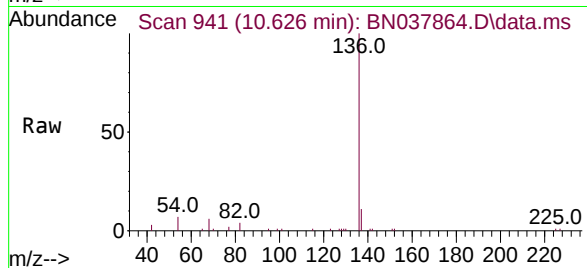




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

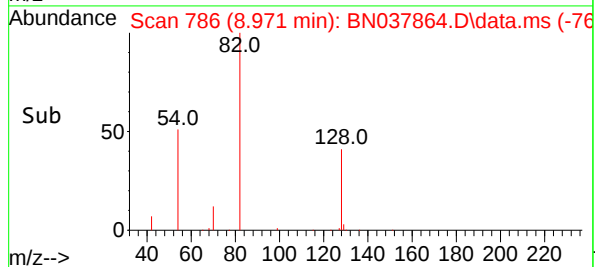
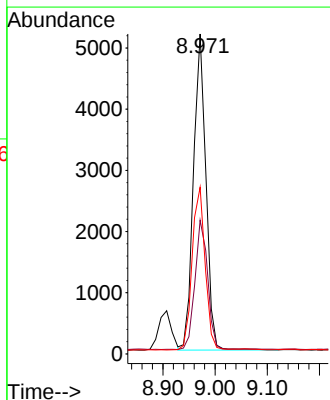
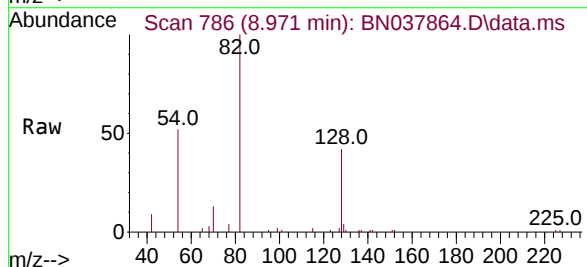
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

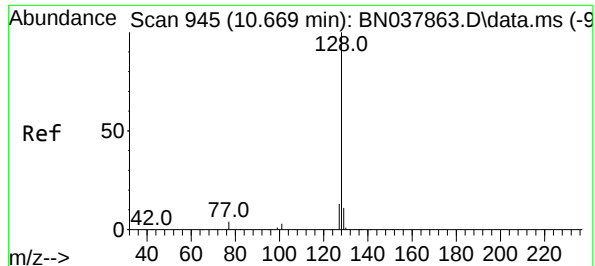
Tgt Ion:	136	Resp:	14715
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.2	5.8	8.8
68	5.6	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.761 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:	82	Resp:	8536
Ion	Ratio	Lower	Upper
82	100		
128	41.8	34.8	52.2
54	52.1	42.2	63.2

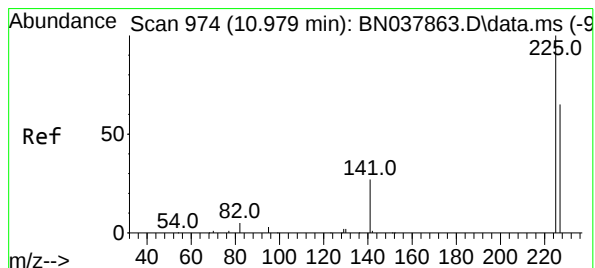
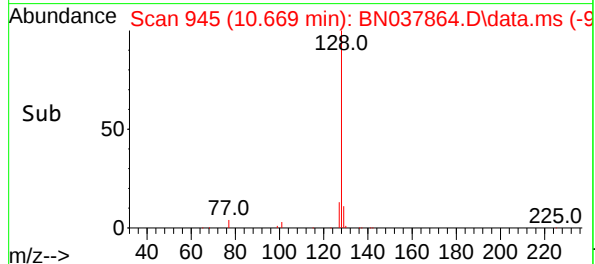
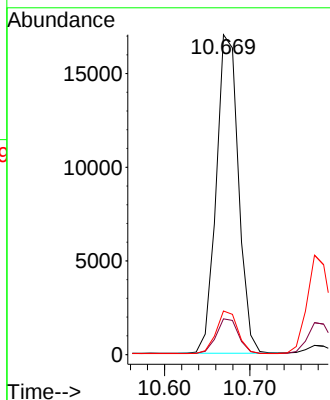
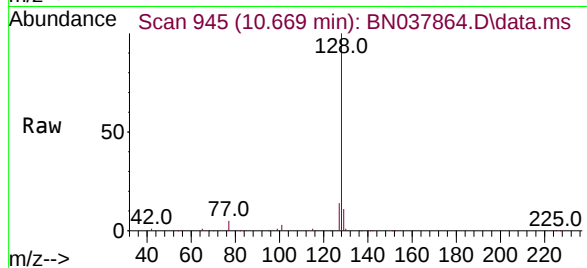




#9
Naphthalene
Concen: 0.763 ng
RT: 10.669 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

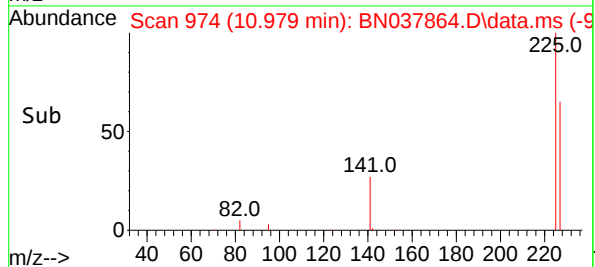
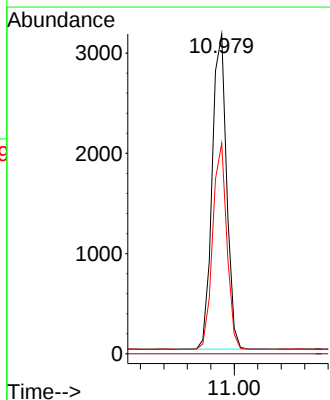
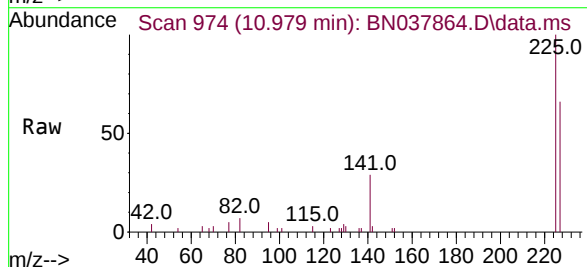
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

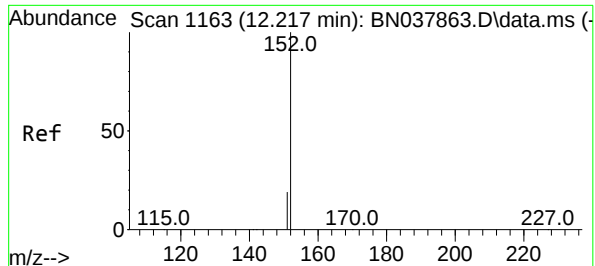
Tgt Ion:128 Resp: 30935
Ion Ratio Lower Upper
128 100
129 11.2 9.2 13.8
127 13.6 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.780 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:225 Resp: 5393
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 51.4 77.2

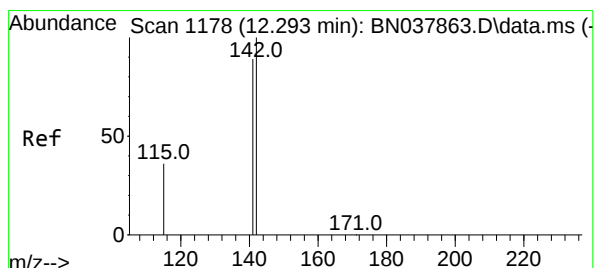
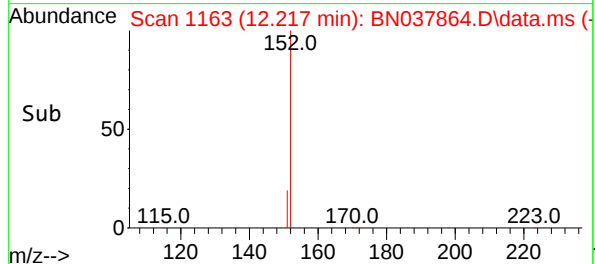
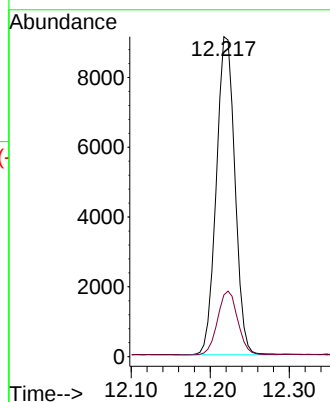
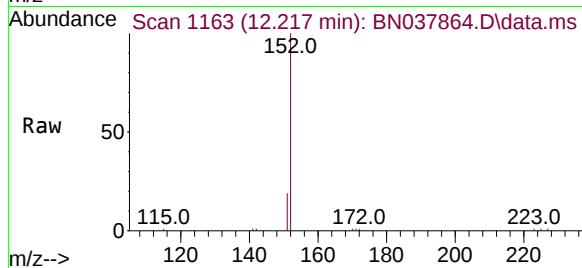




#11
2-Methylnaphthalene-d10
Concen: 0.725 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

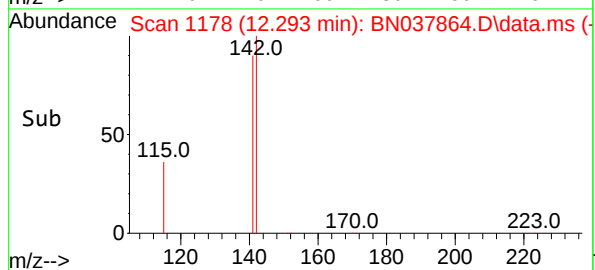
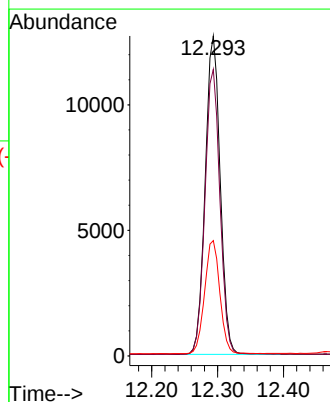
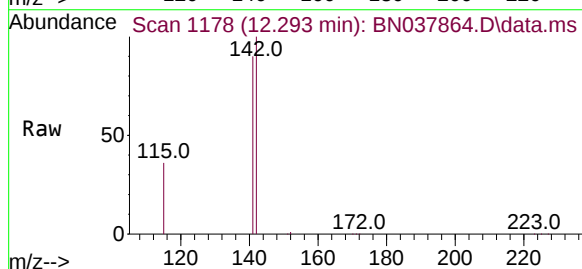
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

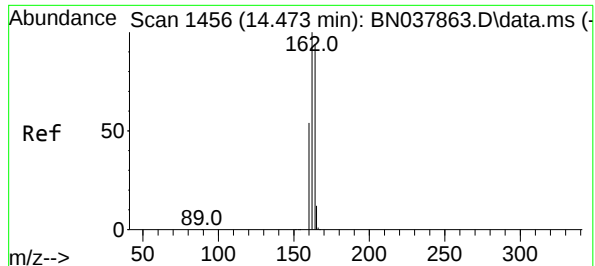
Tgt Ion:152 Resp: 14822
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.758 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:142 Resp: 20065
Ion Ratio Lower Upper
142 100
141 89.5 71.2 106.8
115 36.0 29.7 44.5

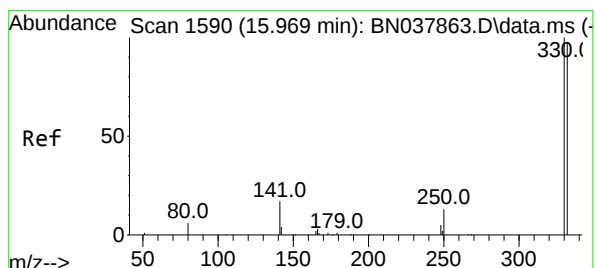
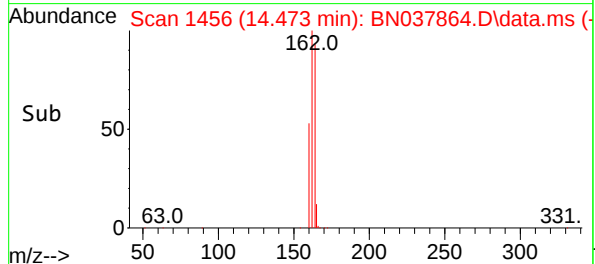
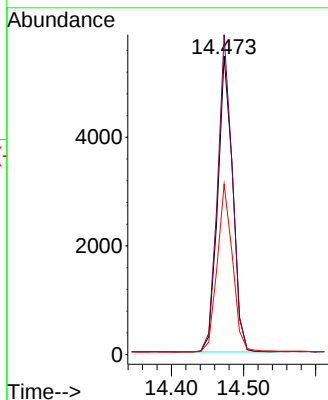
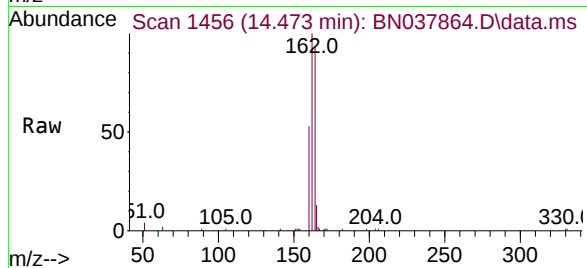




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

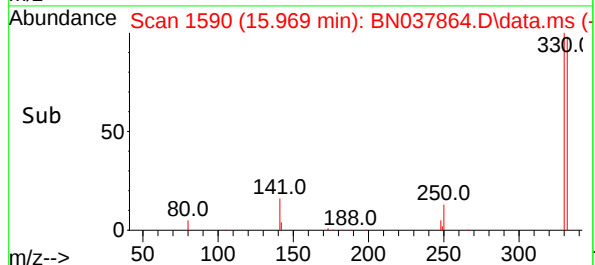
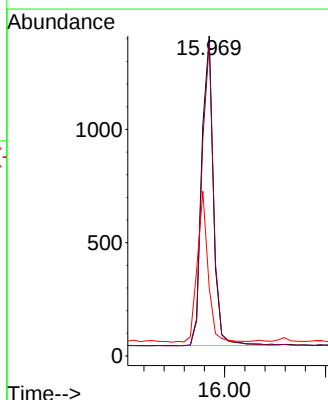
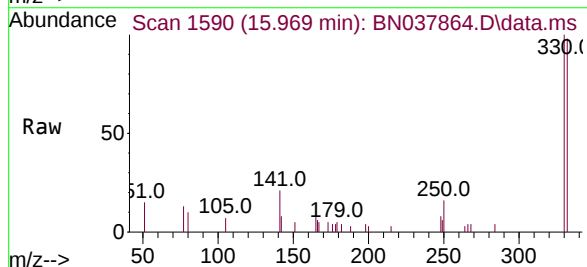
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

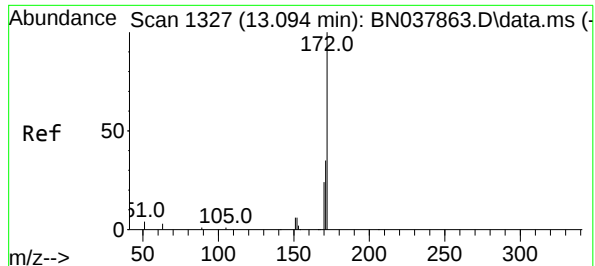
Tgt Ion:164 Resp: 7889
Ion Ratio Lower Upper
164 100
162 107.2 84.8 127.2
160 57.1 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.687 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:330 Resp: 2186
Ion Ratio Lower Upper
330 100
332 97.2 77.2 115.8
141 45.1 37.2 55.8

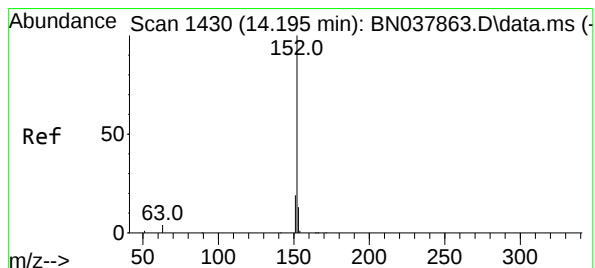
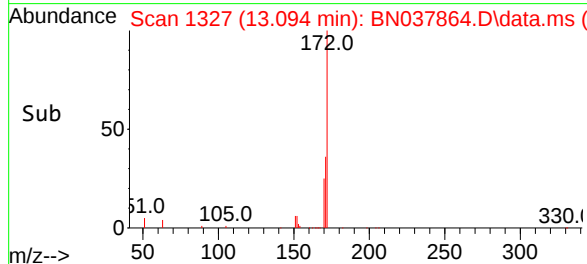
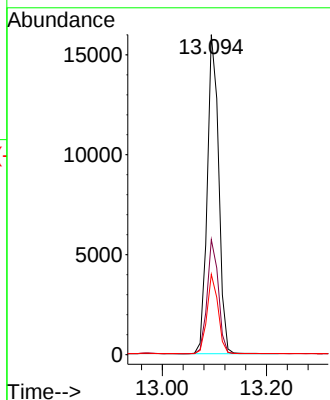
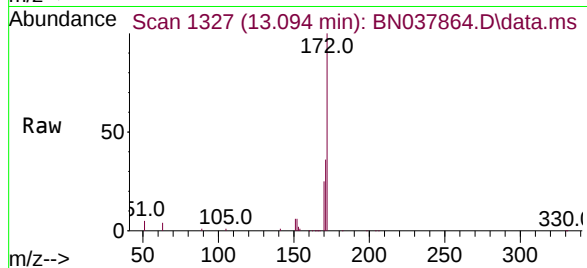




#15
2-Fluorobiphenyl
Concen: 0.756 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

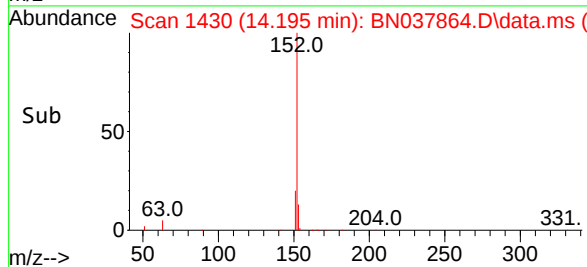
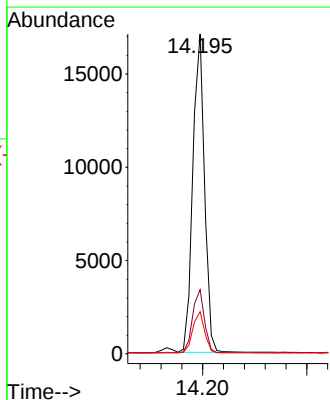
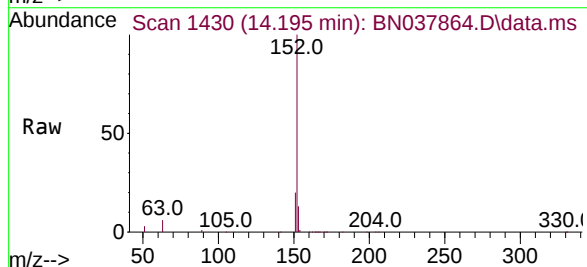
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

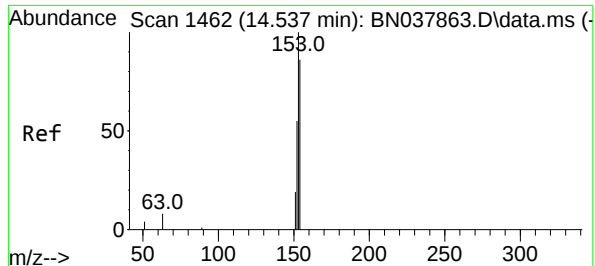
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	25.1	19.7	29.5



#16
Acenaphthylene
Concen: 0.740 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	12.9	10.5	15.7

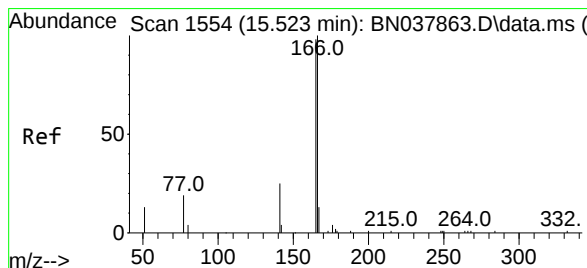
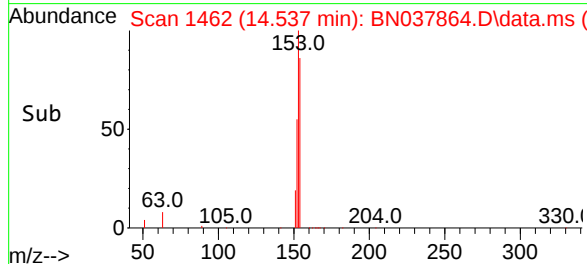
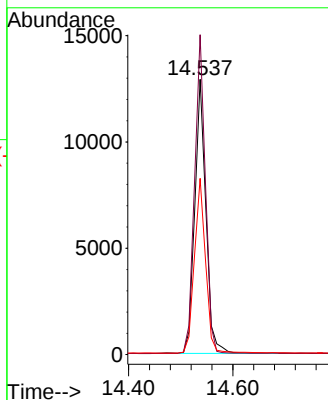
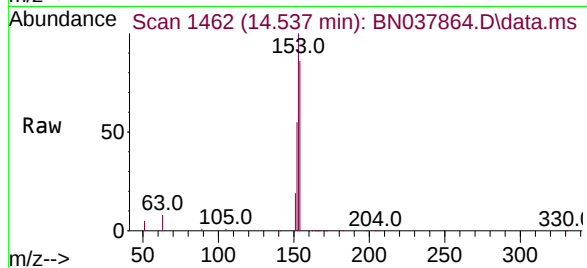




#17
Acenaphthene
Concen: 0.747 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

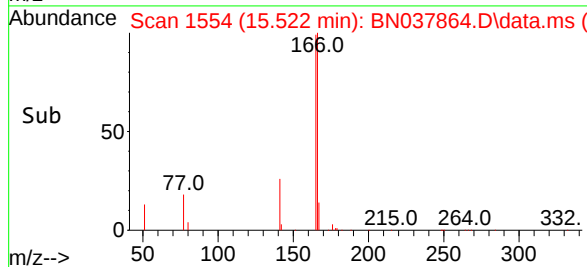
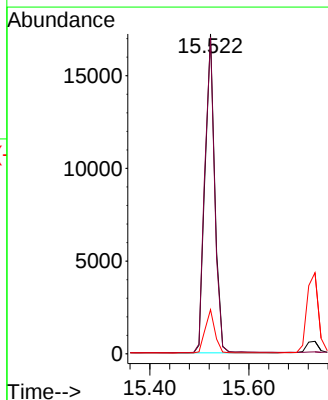
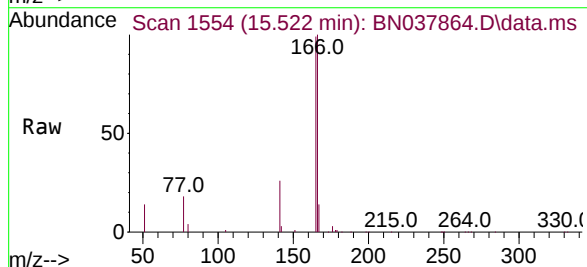
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

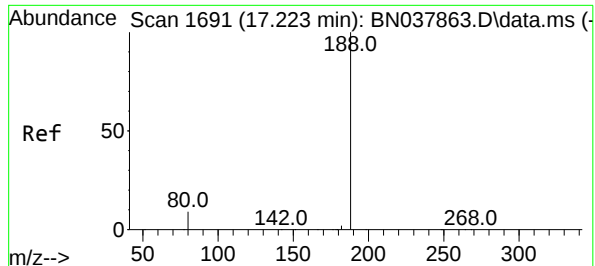
Tgt Ion:154 Resp: 19057
Ion Ratio Lower Upper
154 100
153 112.9 90.5 135.7
152 64.2 51.8 77.8



#18
Fluorene
Concen: 0.749 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:166 Resp: 23130
Ion Ratio Lower Upper
166 100
165 99.4 79.0 118.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

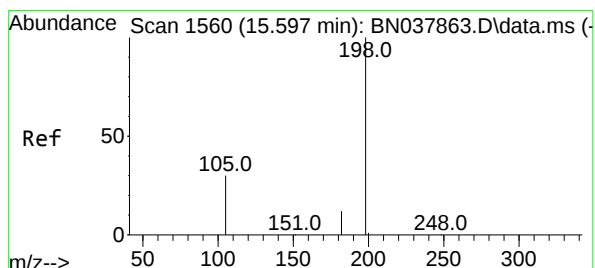
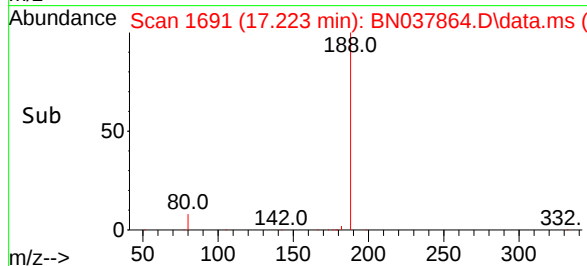
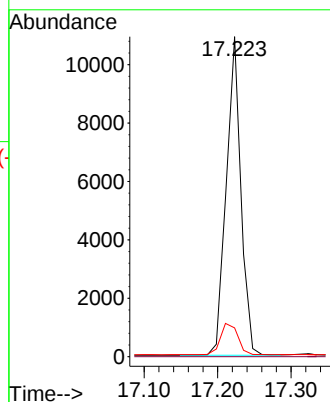
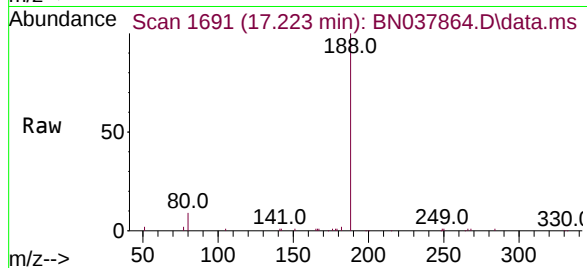
Tgt Ion:188 Resp: 15207

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.755 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

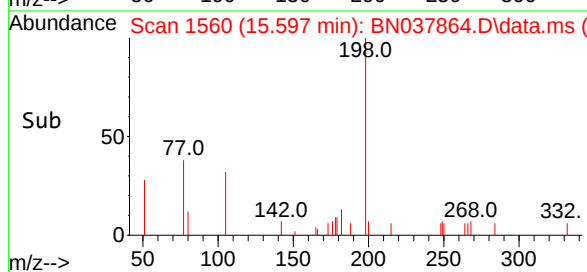
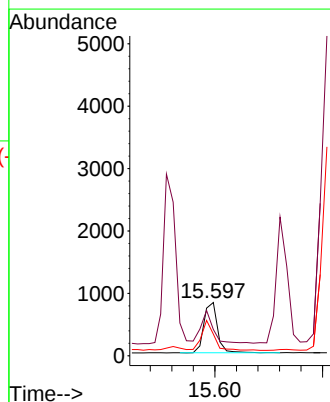
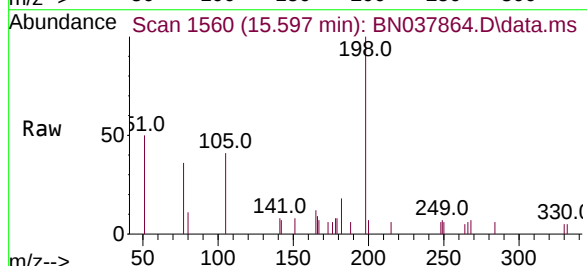
Tgt Ion:198 Resp: 1414

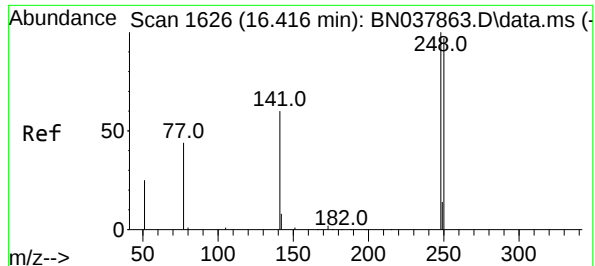
Ion Ratio Lower Upper

198 100

51 49.5 59.1 88.7#

105 41.0 41.3 61.9#

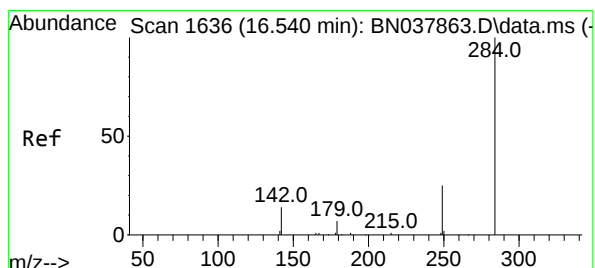
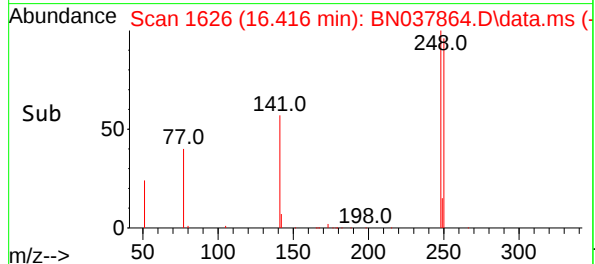
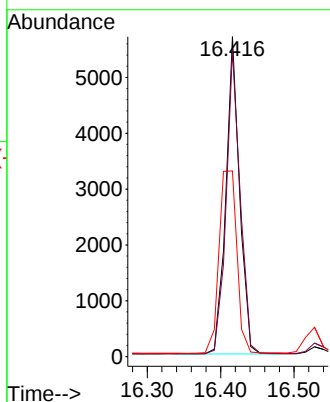
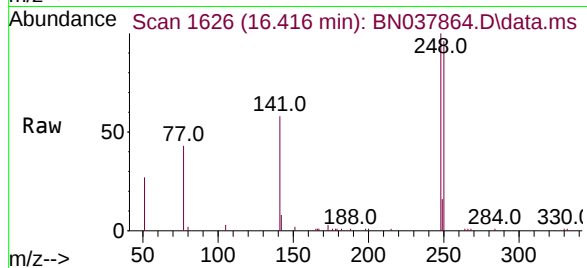




#21
4-Bromophenyl-phenylether
Concen: 0.748 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

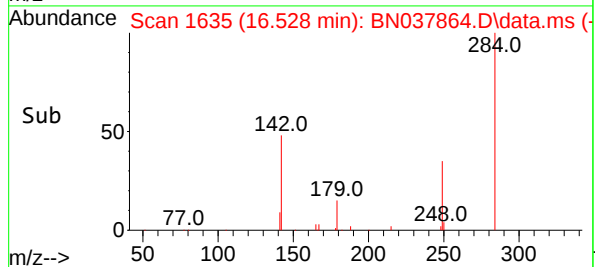
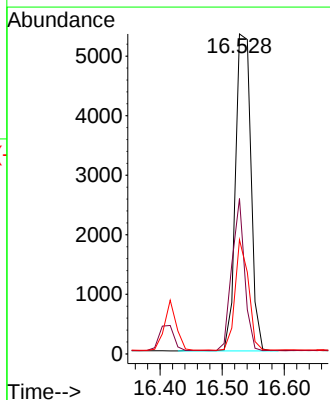
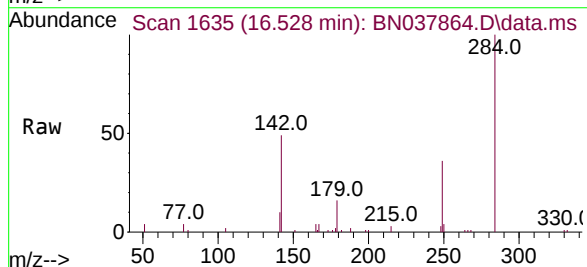
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

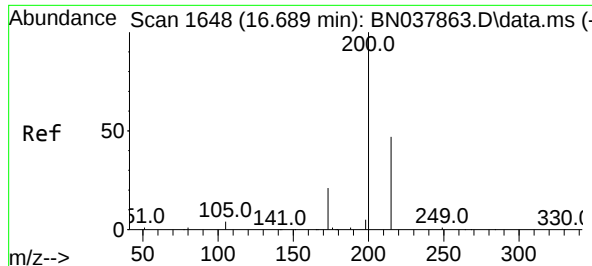
Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.7	77.6	116.4
141	58.0	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.761 ng
RT: 16.528 min Scan# 1635
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.7	30.9	46.3
249	30.2	23.9	35.9

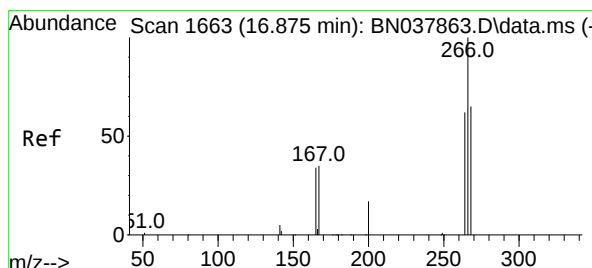
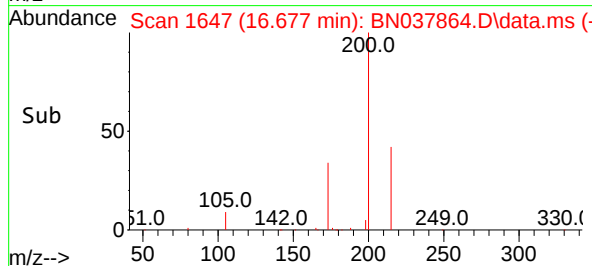
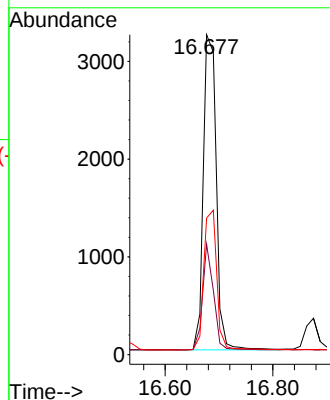
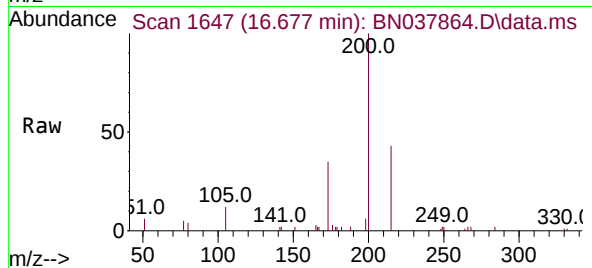




#23
Atrazine
Concen: 0.716 ng
RT: 16.677 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

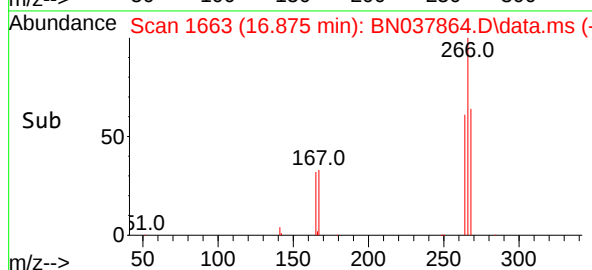
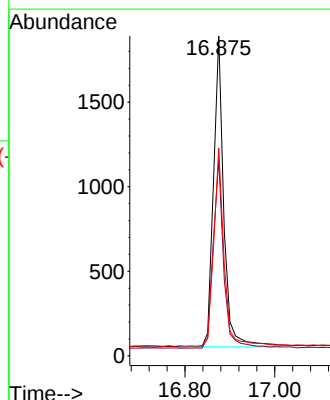
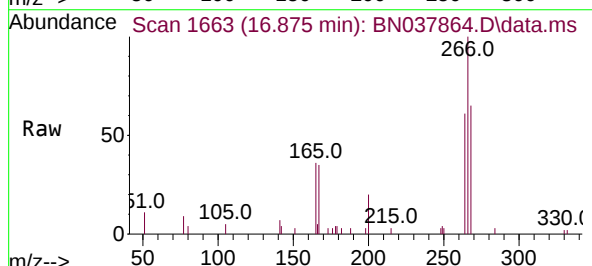
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

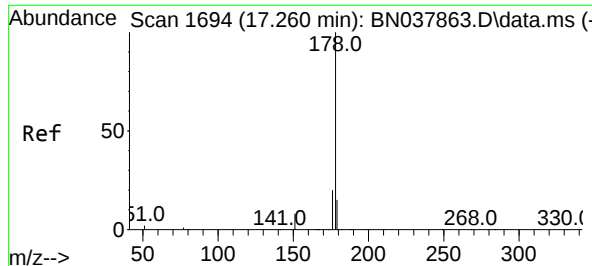
Tgt Ion:200 Resp: 5405
Ion Ratio Lower Upper
200 100
173 34.5 18.3 27.5#
215 42.7 38.6 58.0



#24
Pentachlorophenol
Concen: 0.714 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:266 Resp: 2945
Ion Ratio Lower Upper
266 100
264 62.0 50.9 76.3
268 64.2 54.3 81.5

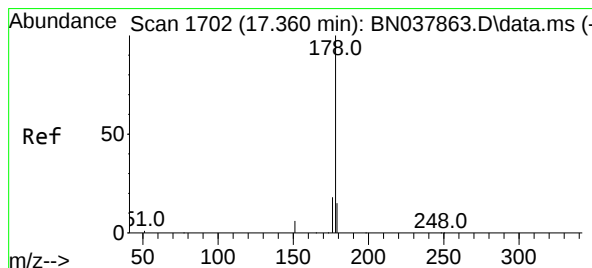
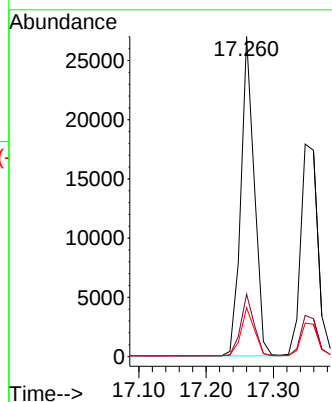
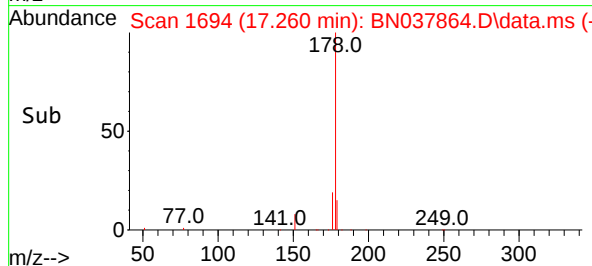
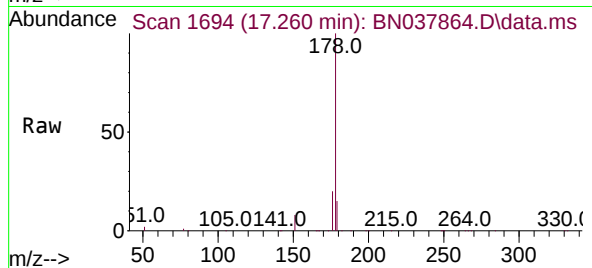




#25
Phenanthrene
Concen: 0.744 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

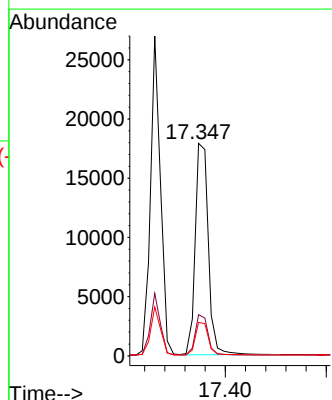
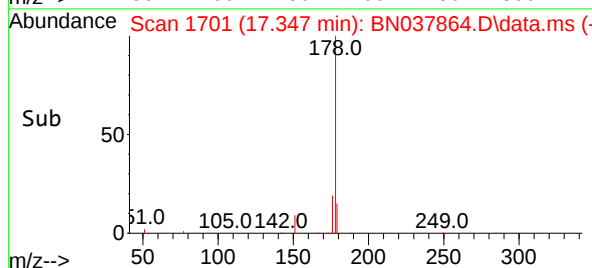
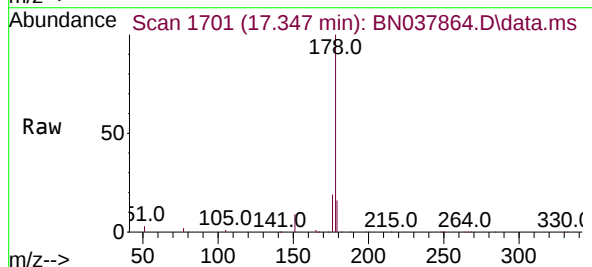
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

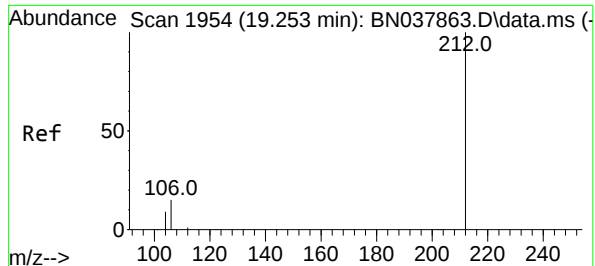
Tgt Ion:178 Resp: 37218
Ion Ratio Lower Upper
178 100
176 19.2 15.7 23.5
179 15.1 12.3 18.5



#26
Anthracene
Concen: 0.740 ng
RT: 17.347 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:178 Resp: 32138
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.715 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

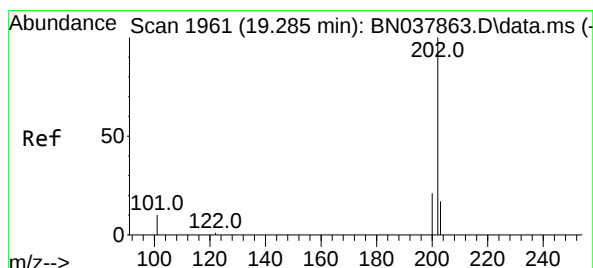
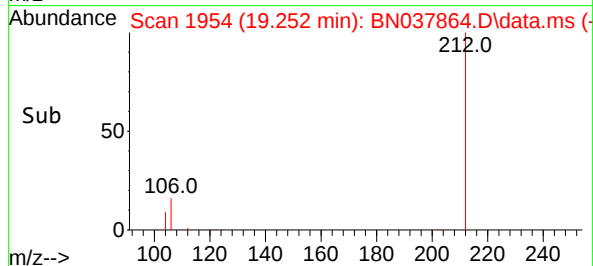
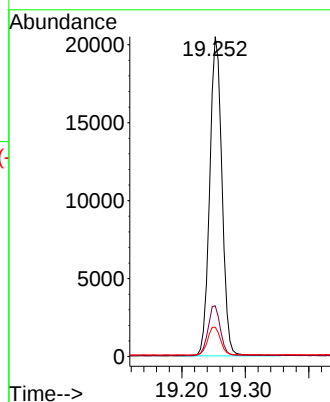
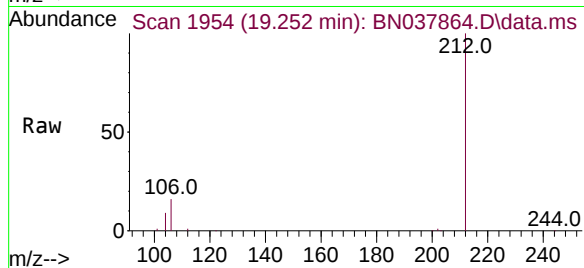
Tgt Ion:212 Resp: 27365

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.749 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

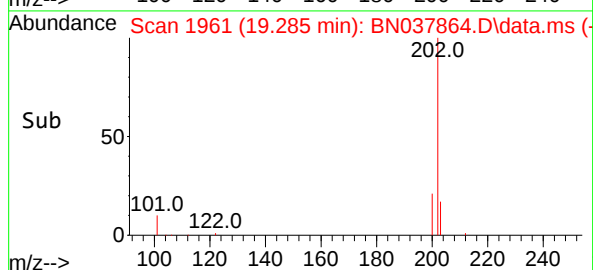
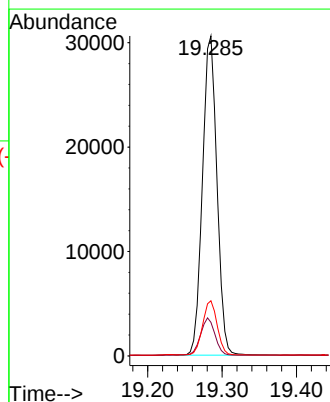
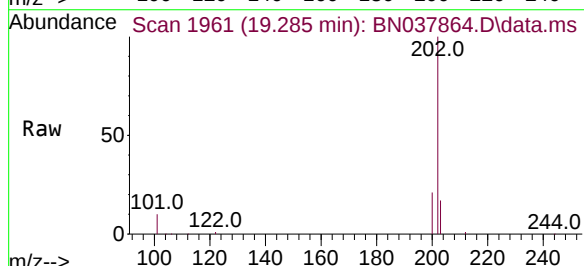
Tgt Ion:202 Resp: 41292

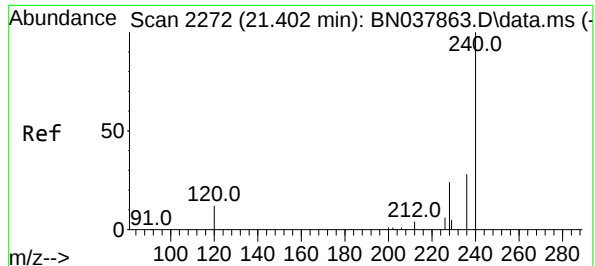
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

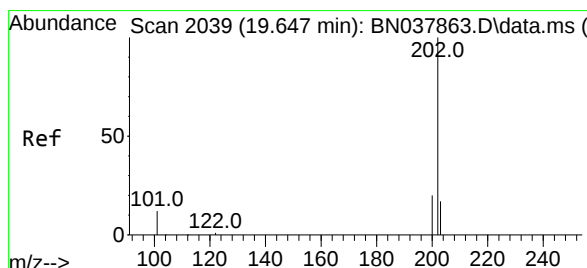
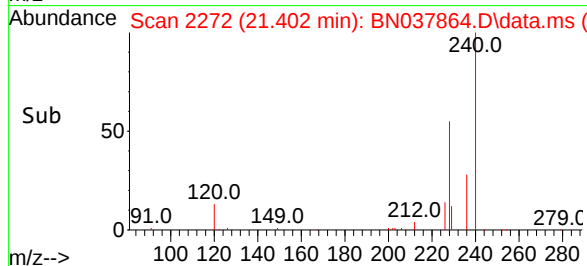
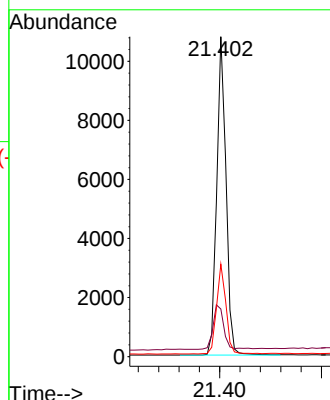
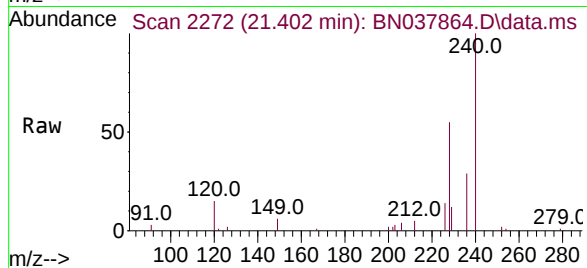
Tgt Ion:240 Resp: 13674

Ion Ratio Lower Upper

240 100

120 14.9 11.4 17.2

236 28.9 23.0 34.6



#30

Pyrene

Concen: 0.748 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

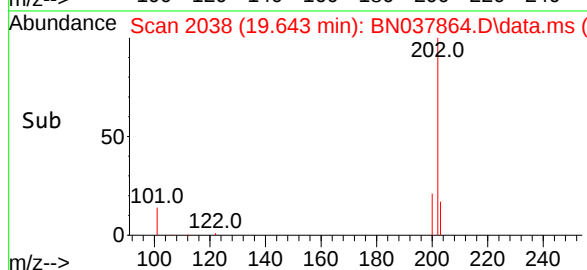
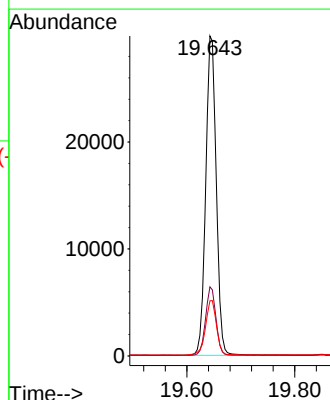
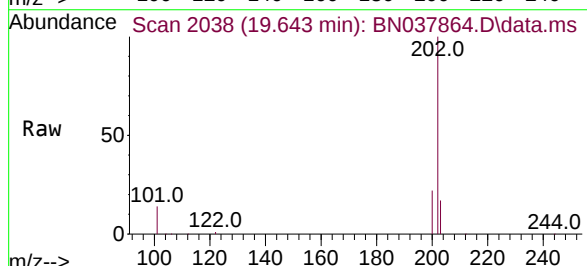
Tgt Ion:202 Resp: 40377

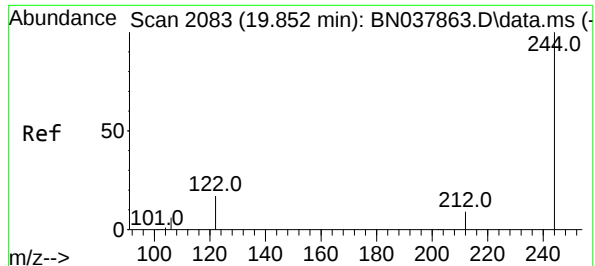
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.7 14.2 21.4

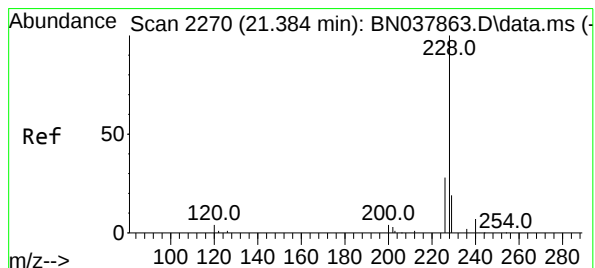
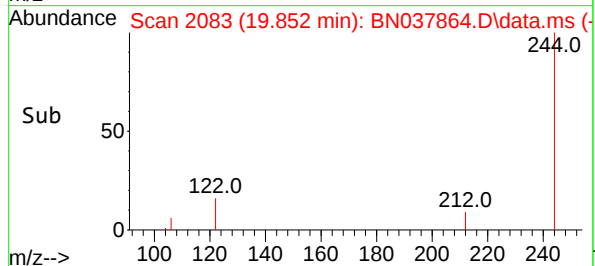
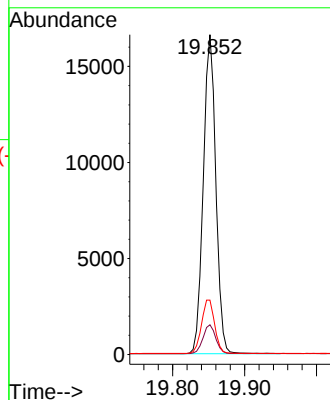
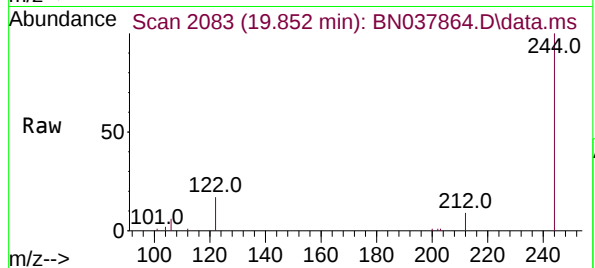




#31
Terphenyl-d14
Concen: 0.738 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

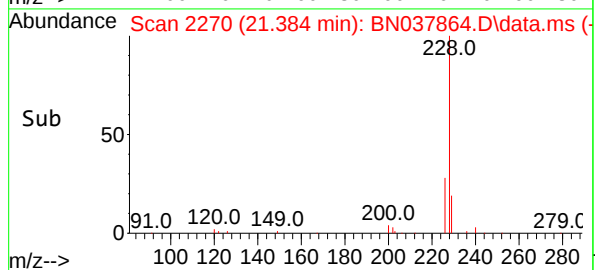
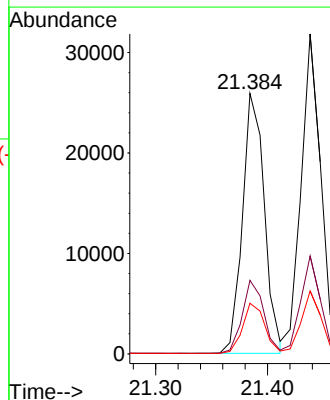
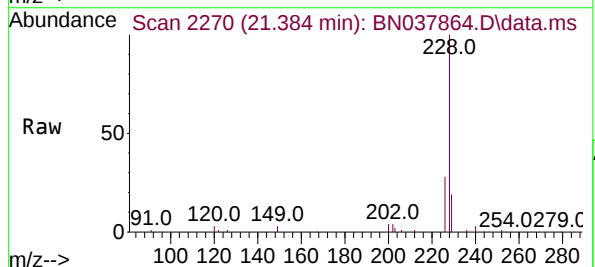
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

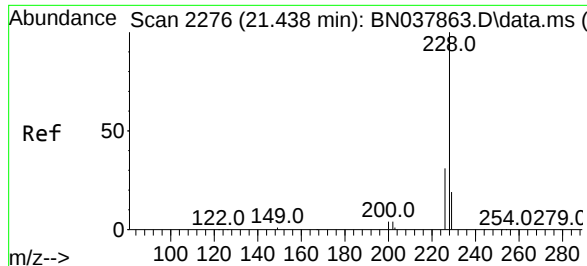
Tgt Ion:244 Resp: 20095
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 17.0 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.735 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:228 Resp: 35130
Ion Ratio Lower Upper
228 100
226 28.3 22.6 33.8
229 19.5 15.6 23.4





#33

Chrysene

Concen: 0.765 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

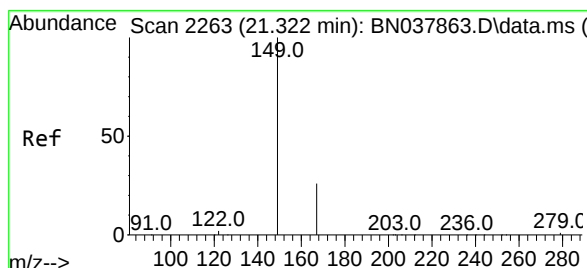
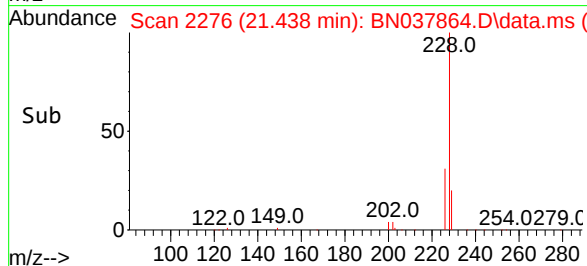
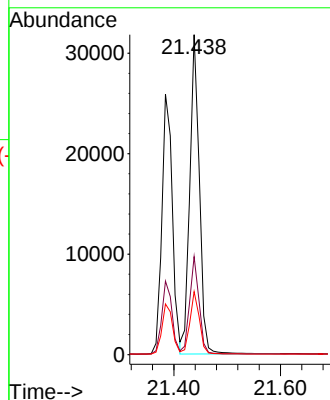
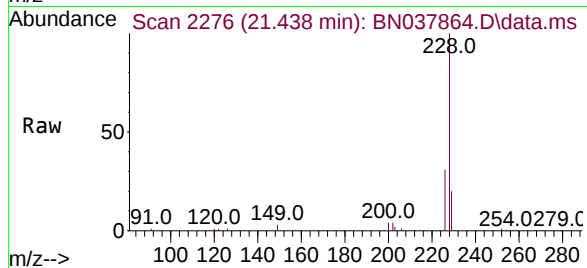
Tgt Ion:228 Resp: 39541

Ion Ratio Lower Upper

228 100

226 30.6 24.6 37.0

229 19.7 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.689 ng

RT: 21.322 min Scan# 2263

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

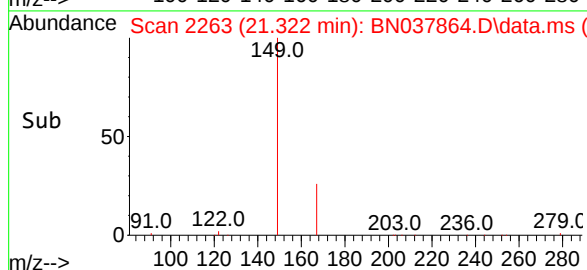
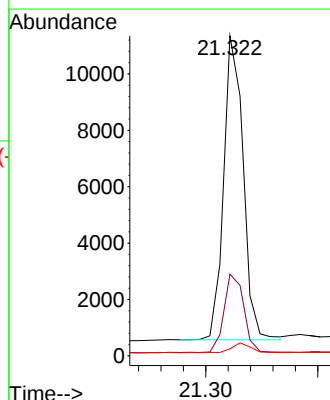
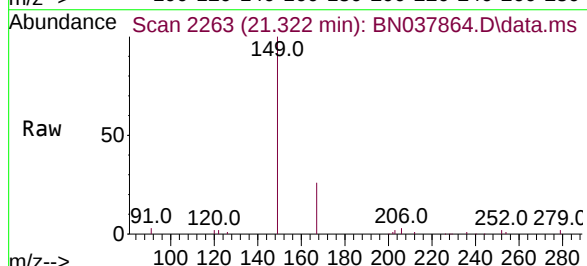
Tgt Ion:149 Resp: 13026

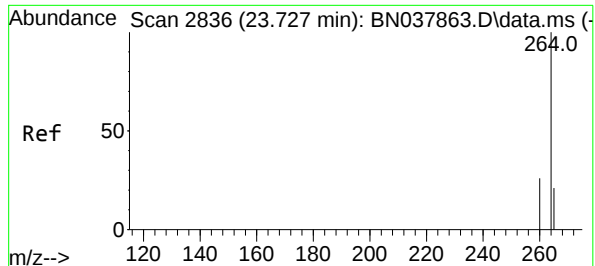
Ion Ratio Lower Upper

149 100

167 26.1 20.4 30.6

279 3.2 2.4 3.6

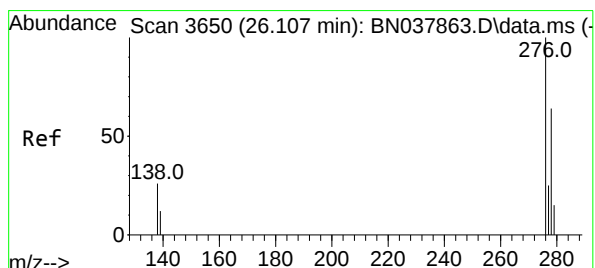
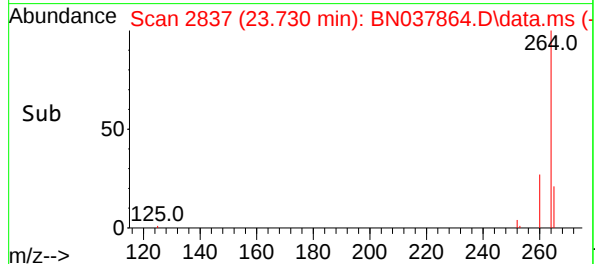
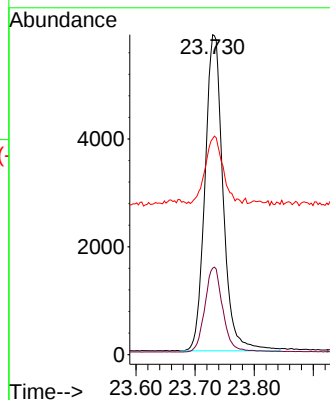
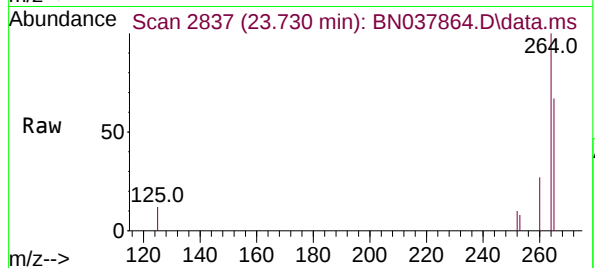




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.730 min Scan# 2837
Delta R.T. 0.003 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

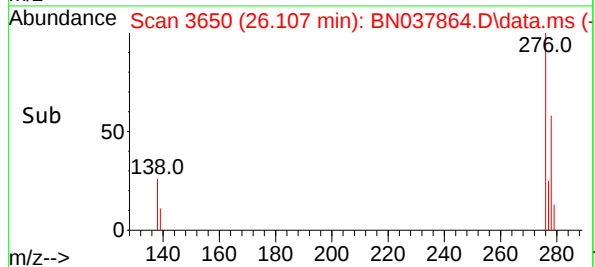
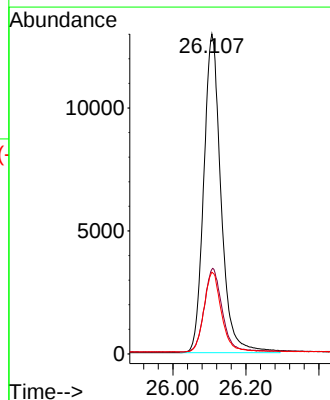
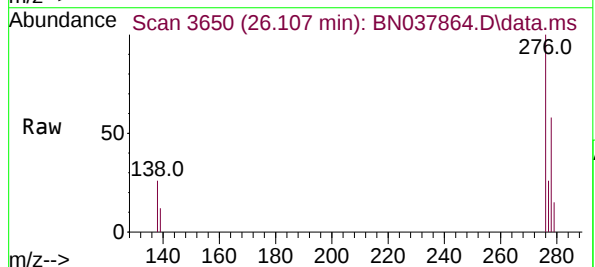
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

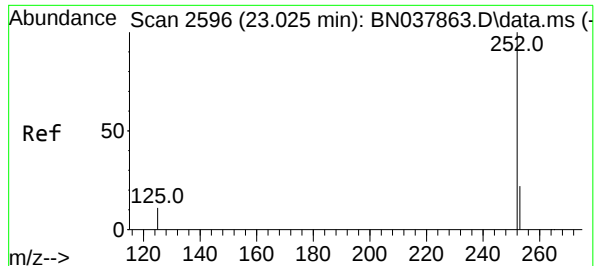
Tgt Ion:264 Resp: 12464
Ion Ratio Lower Upper
264 100
260 27.0 21.5 32.3
265 67.5 53.8 80.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.747 ng
RT: 26.107 min Scan# 3650
Delta R.T. -0.000 min
Lab File: BN037864.D
Acq: 23 Sep 2025 14:02

Tgt Ion:276 Resp: 42560
Ion Ratio Lower Upper
276 100
138 26.8 21.4 32.0
277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.738 ng

RT: 23.025 min Scan# 2596

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

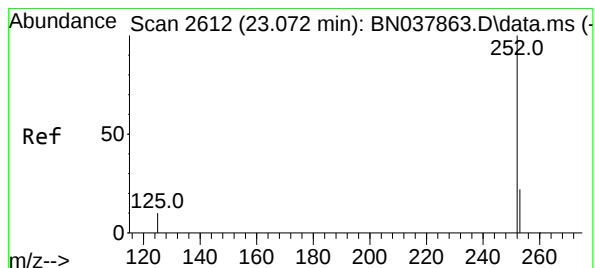
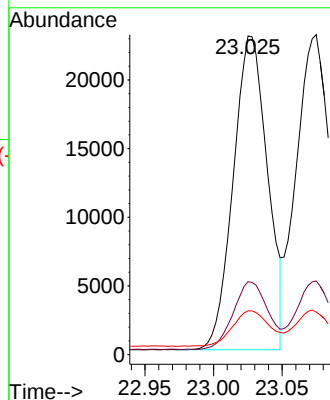
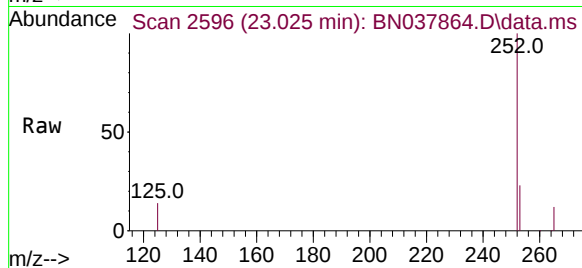
Tgt Ion:252 Resp: 39646

Ion Ratio Lower Upper

252 100

253 22.9 19.4 29.0

125 13.7 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.750 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

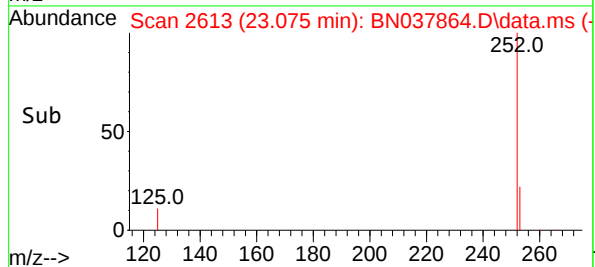
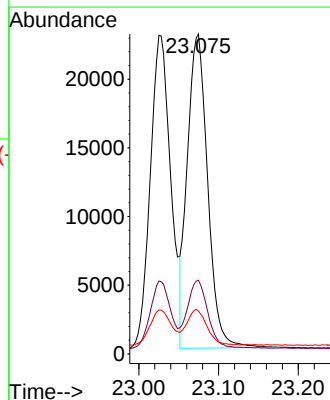
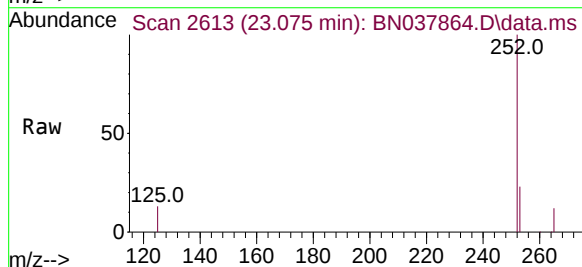
Tgt Ion:252 Resp: 40574

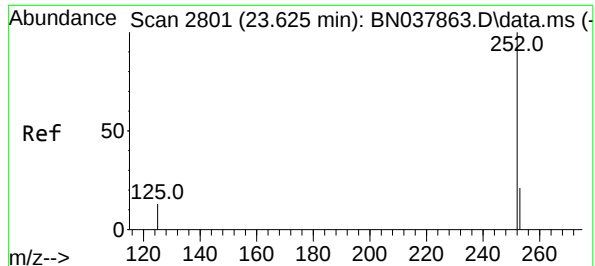
Ion Ratio Lower Upper

252 100

253 23.0 19.5 29.3

125 13.3 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.735 ng

RT: 23.627 min Scan# 2802

Delta R.T. 0.003 min

Lab File: BN037864.D

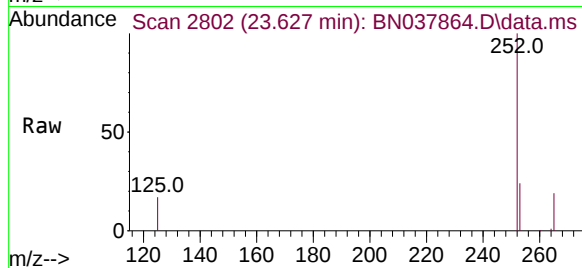
Acq: 23 Sep 2025 14:02

Instrument :

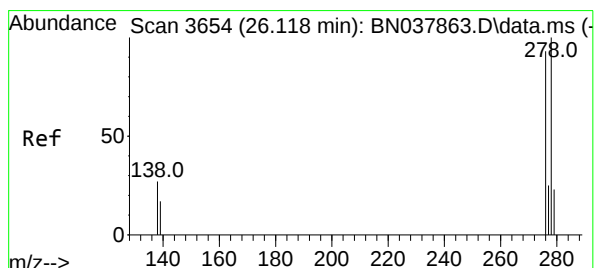
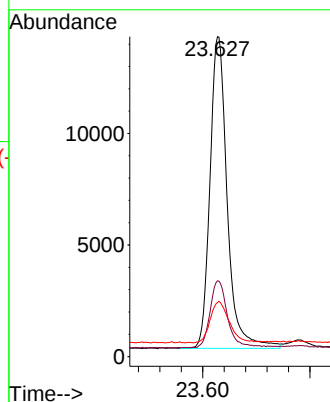
BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:	252	Resp:	31265
Ion Ratio	Lower	Upper	
252	100		
253	23.7	20.6	30.8
125	16.9	16.7	25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.747 ng

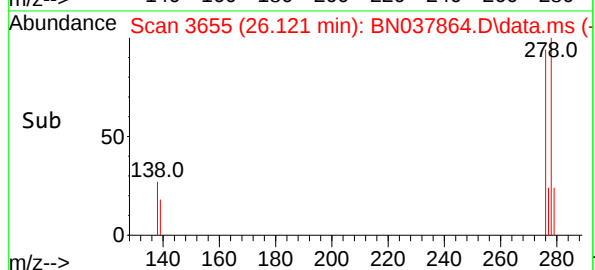
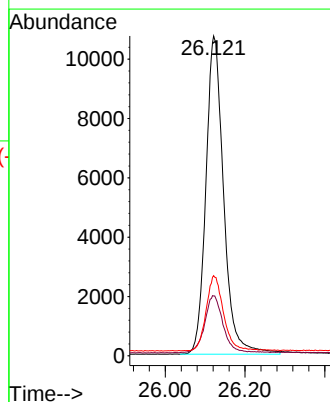
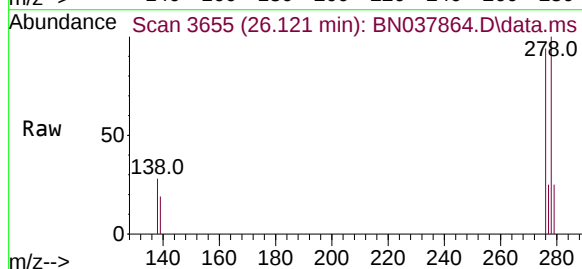
RT: 26.121 min Scan# 3655

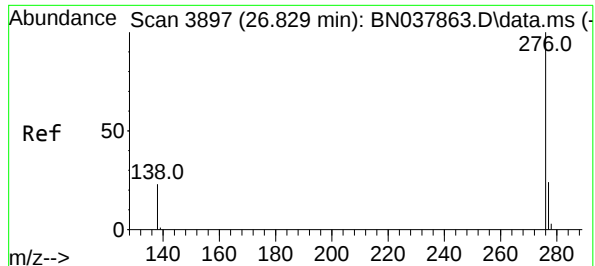
Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Tgt Ion:	278	Resp:	33235
Ion Ratio	Lower	Upper	
278	100		
139	18.7	15.4	23.2
279	25.1	20.8	31.2





#41

Benzo(g,h,i)perylene

Concen: 0.745 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037864.D

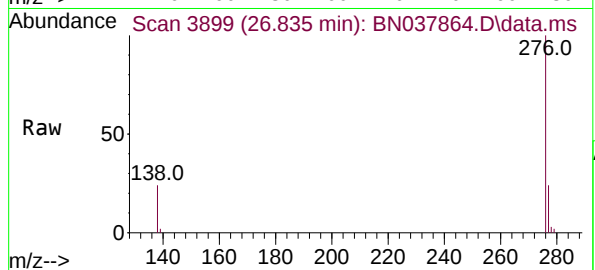
Acq: 23 Sep 2025 14:02

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



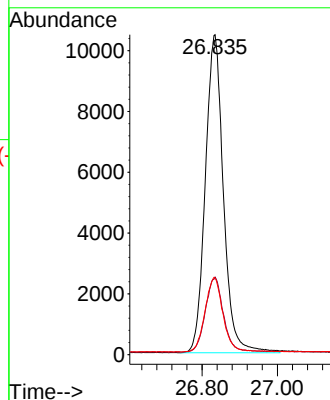
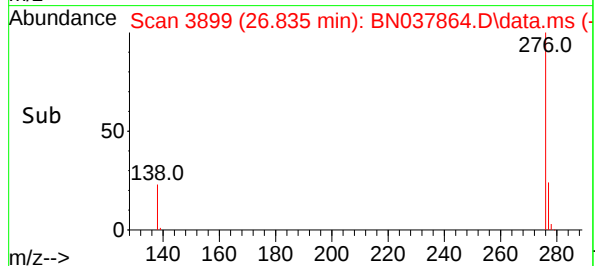
Tgt Ion:276 Resp: 34817

Ion Ratio Lower Upper

276 100

277 24.2 20.2 30.4

138 23.9 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037865.D
 Acq On : 23 Sep 2025 14:38
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

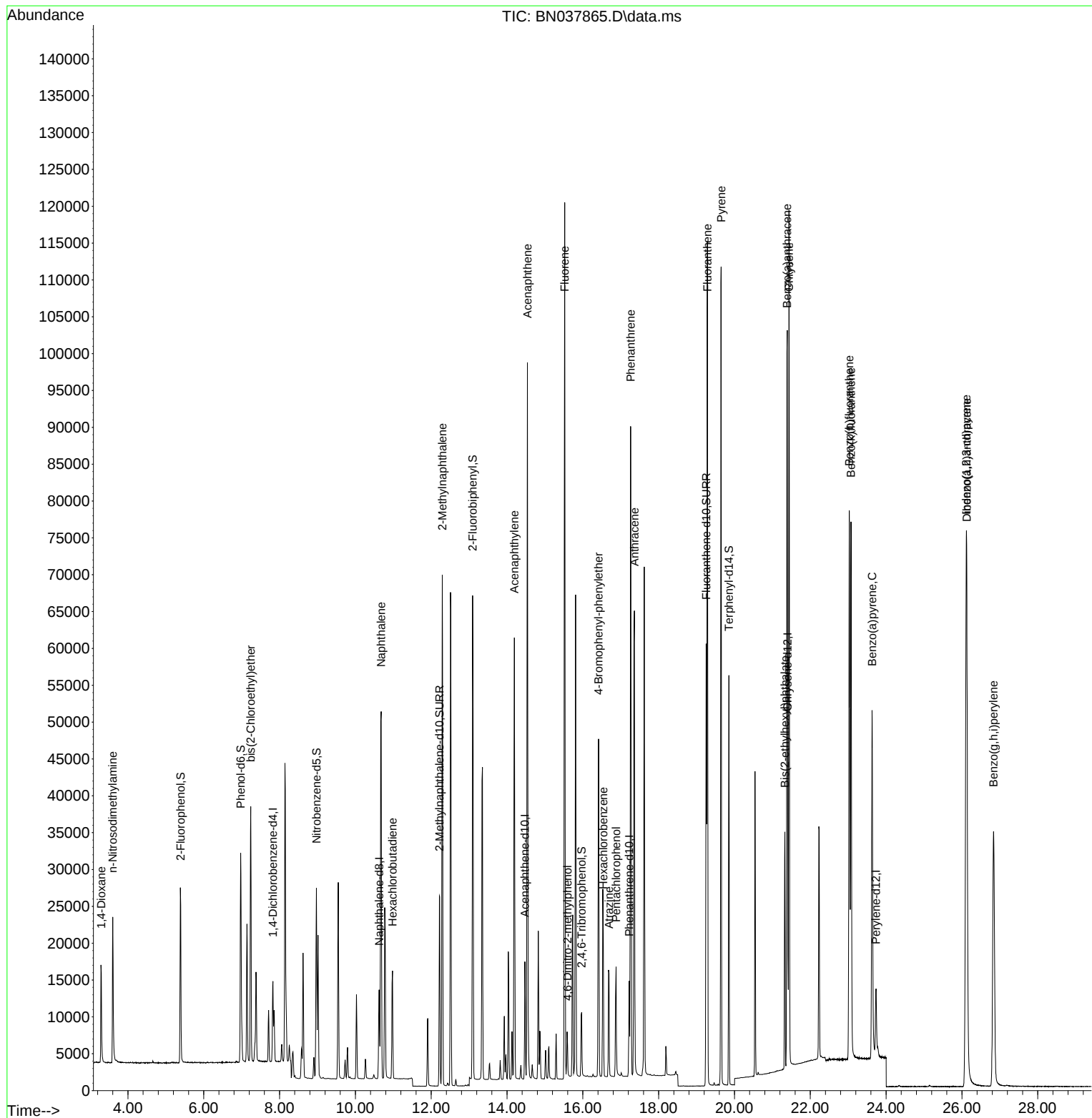
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5367	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15494	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8404	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	15875	0.400	ng	0.00
29) Chrysene-d12	21.402	240	14963	0.400	ng	0.00
35) Perylene-d12	23.735	264	12917	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.391	112	19493	1.592	ng	0.00
5) Phenol-d6	6.973	99	26005	1.616	ng	0.00
8) Nitrobenzene-d5	8.971	82	19230	1.627	ng	0.00
11) 2-Methylnaphthalene-d10	12.217	152	34256	1.592	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	5471	1.613	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	55598	1.616	ng	0.00
27) Fluoranthene-d10	19.252	212	63771	1.597	ng	0.00
31) Terphenyl-d14	19.852	244	47765	1.603	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	9123	1.674	ng	98
3) n-Nitrosodimethylamine	3.600	42	12048	1.662	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	24687	1.653	ng	100
9) Naphthalene	10.679	128	69620	1.631	ng	98
10) Hexachlorobutadiene	10.978	225	11899	1.634	ng	# 100
12) 2-Methylnaphthalene	12.293	142	46704	1.675	ng	99
16) Acenaphthylene	14.195	152	64093	1.680	ng	100
17) Acenaphthene	14.537	154	45411	1.670	ng	97
18) Fluorene	15.522	166	55922	1.701	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	3669	1.602	ng	# 64
21) 4-Bromophenyl-phenylether	16.416	248	17278	1.670	ng	98
22) Hexachlorobenzene	16.540	284	20548	1.638	ng	99
23) Atrazine	16.689	200	13043	1.656	ng	97
24) Pentachlorophenol	16.875	266	7393	1.718	ng	98
25) Phenanthrene	17.260	178	86207	1.650	ng	99
26) Anthracene	17.359	178	76744	1.693	ng	100
28) Fluoranthene	19.285	202	98772	1.717	ng	99
30) Pyrene	19.647	202	96189	1.628	ng	100
32) Benzo(a)anthracene	21.384	228	85145	1.628	ng	99
33) Chrysene	21.438	228	93309	1.650	ng	100
34) Bis(2-ethylhexyl)phtha...	21.330	149	31032	1.500	ng	98
36) Indeno(1,2,3-cd)pyrene	26.112	276	97476	1.652	ng	99
37) Benzo(b)fluoranthene	23.028	252	93525	1.679	ng	# 94
38) Benzo(k)fluoranthene	23.075	252	96868	1.728	ng	# 94
39) Benzo(a)pyrene	23.630	252	73009	1.657	ng	# 90
40) Dibenzo(a,h)anthracene	26.127	278	77237	1.676	ng	97
41) Benzo(g,h,i)perylene	26.835	276	78576	1.623	ng	98

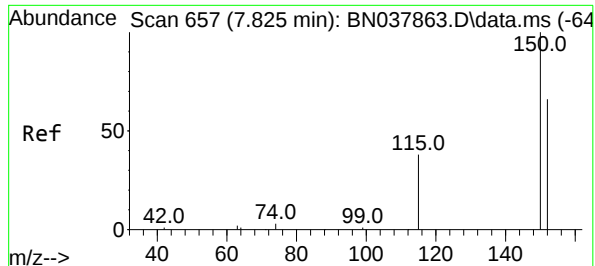
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037865.D
Acq On : 23 Sep 2025 14:38
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

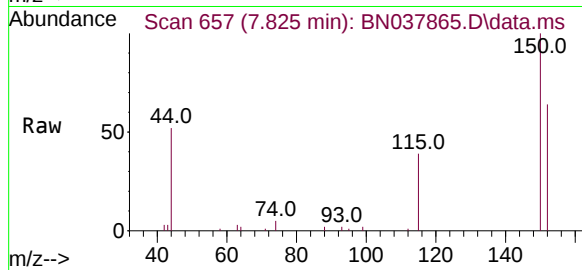
Quant Time: Sep 23 16:22:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



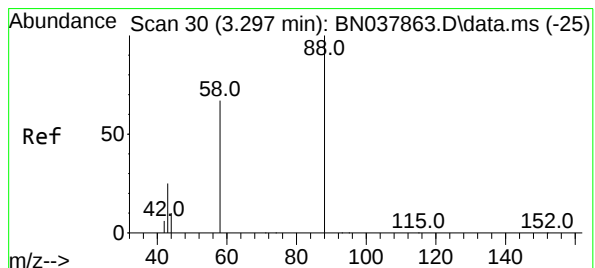
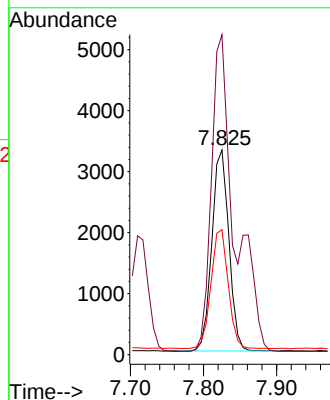
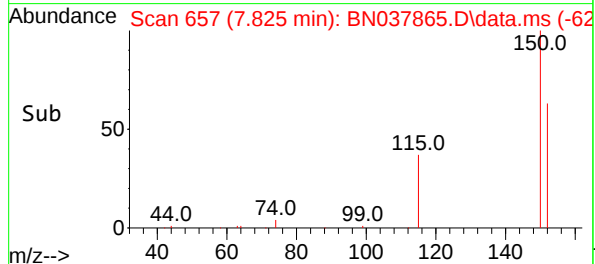


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

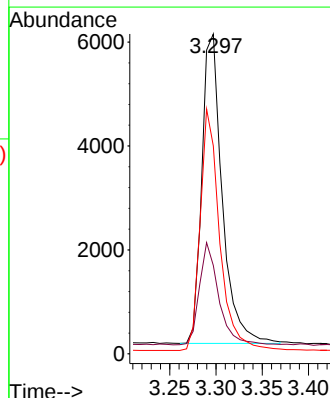
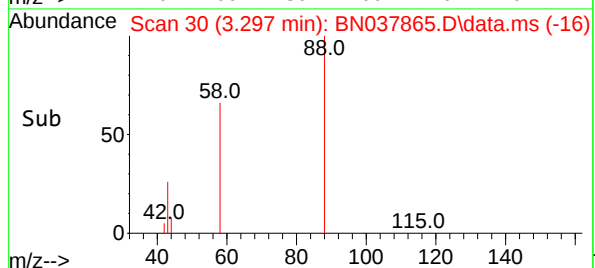
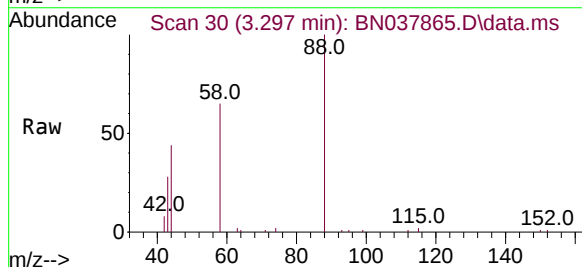


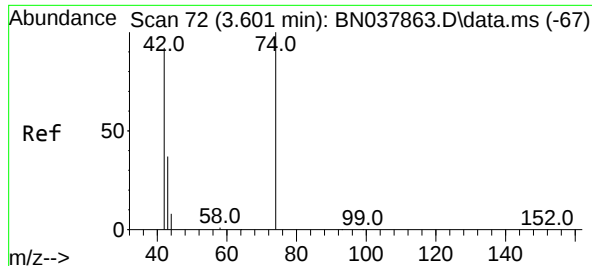
Tgt Ion:152 Resp: 5367
Ion Ratio Lower Upper
152 100
150 156.4 121.0 181.4
115 61.0 47.4 71.0



#2
1,4-Dioxane
Concen: 1.674 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 88 Resp: 9123
Ion Ratio Lower Upper
88 100
43 31.3 26.6 39.8
58 74.6 58.9 88.3

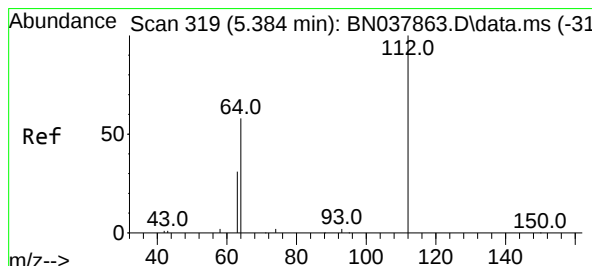
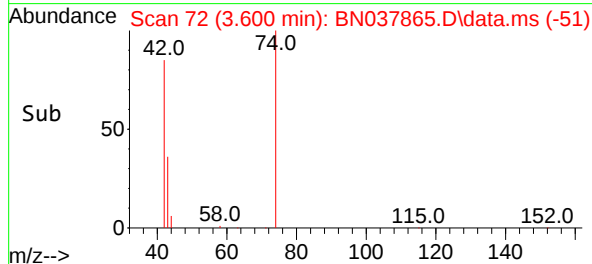
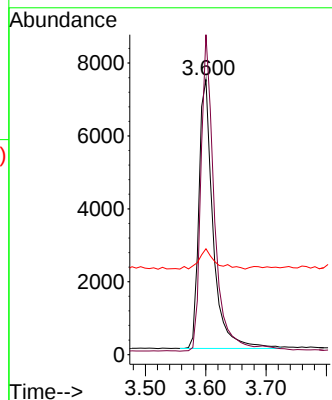
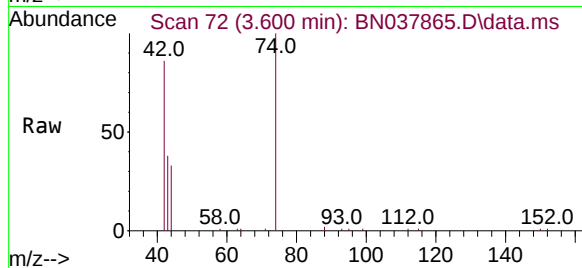




#3
n-Nitrosodimethylamine
Concen: 1.662 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

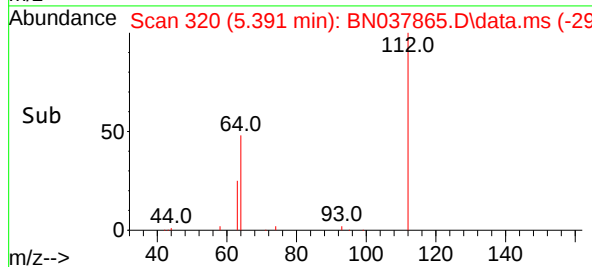
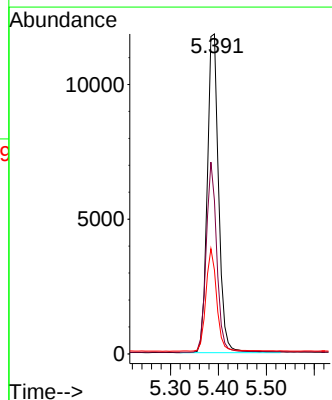
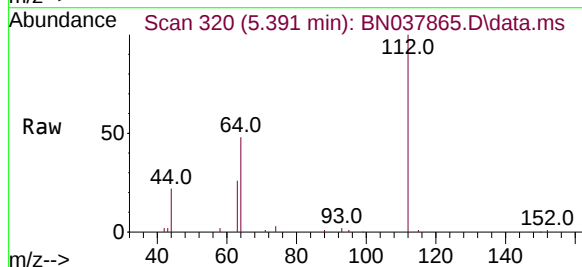
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

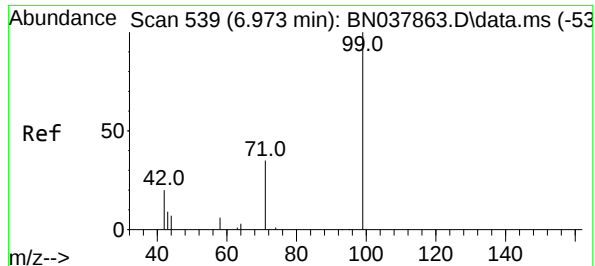
Tgt Ion: 42 Resp: 12048
Ion Ratio Lower Upper
42 100
74 110.9 93.4 140.0
44 8.4 22.2 33.4#



#4
2-Fluorophenol
Concen: 1.592 ng
RT: 5.391 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion: 112 Resp: 19493
Ion Ratio Lower Upper
112 100
64 55.9 44.6 66.8
63 30.3 24.9 37.3

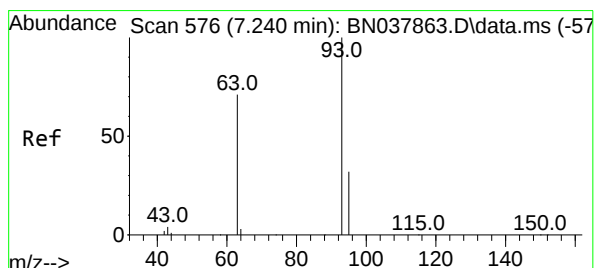
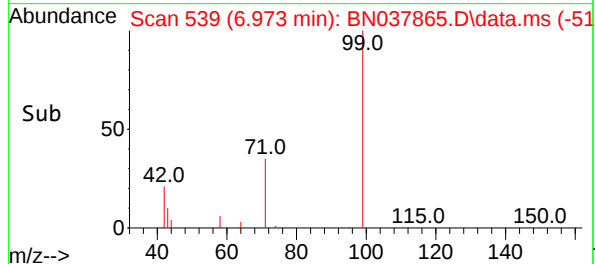
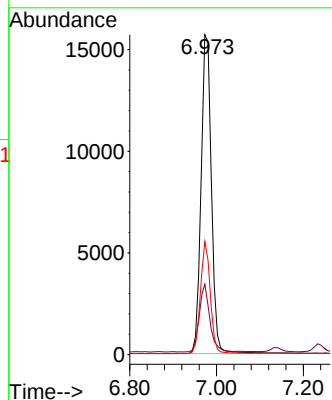
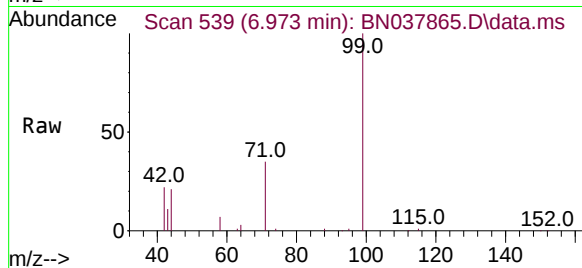




#5
Phenol-d6
Concen: 1.616 ng
RT: 6.973 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

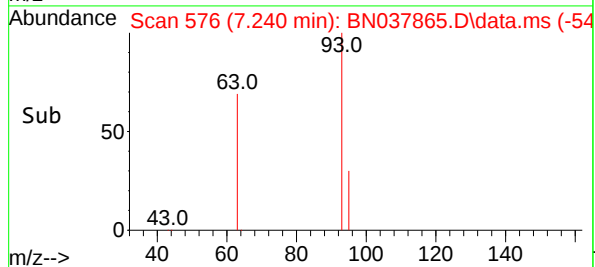
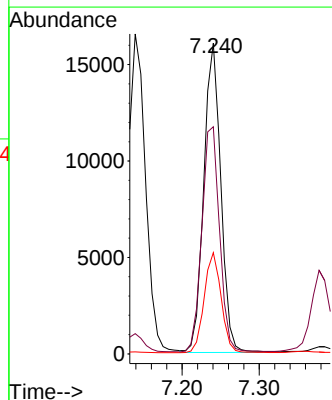
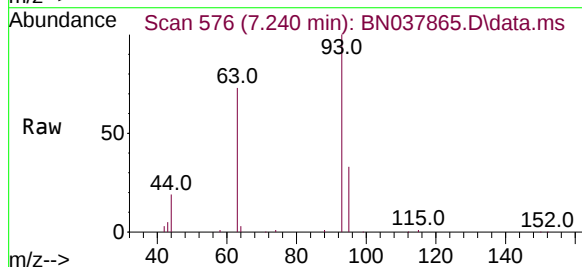
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

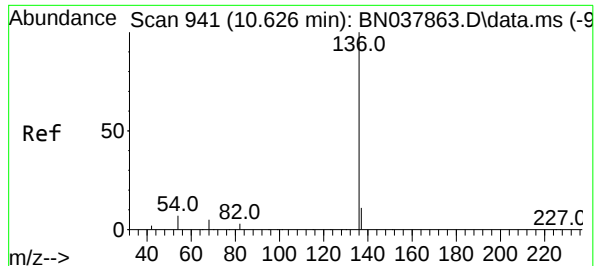
Tgt Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	33.5	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 1.653 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.4	60.1	90.1
95	32.1	25.4	38.2

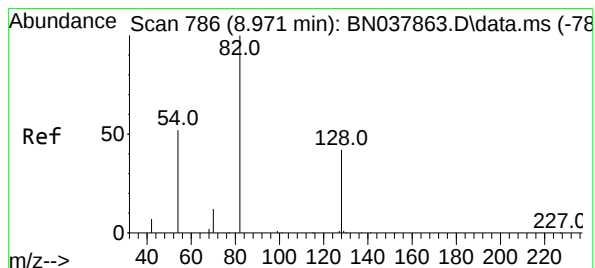
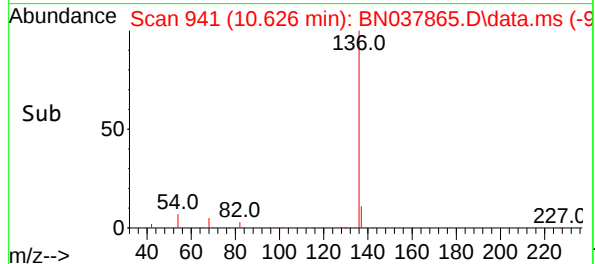
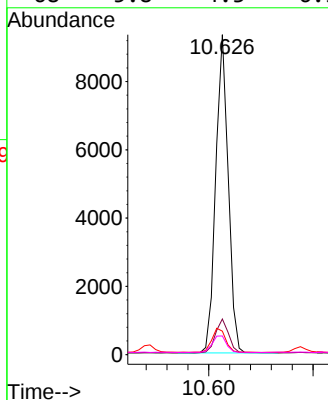
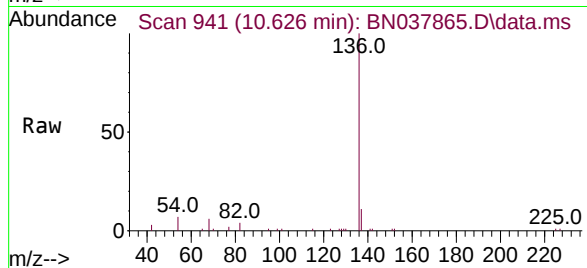




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

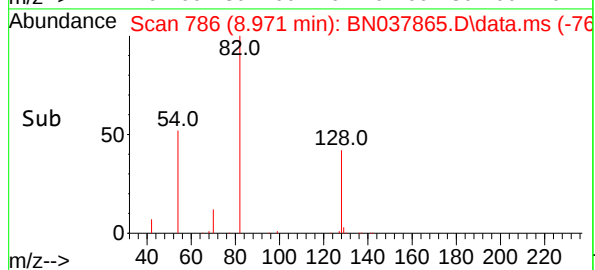
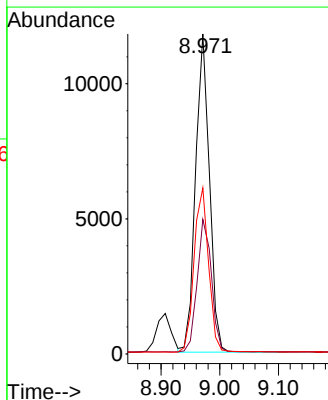
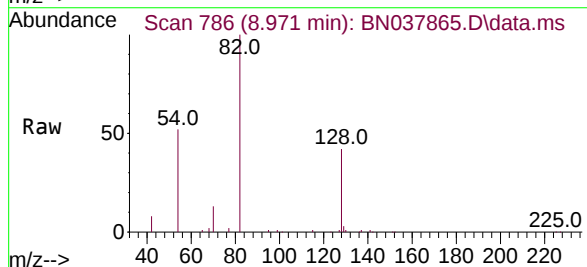
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

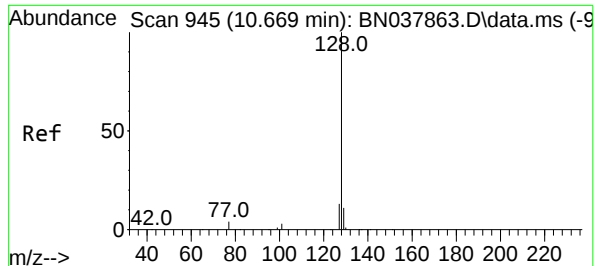
Tgt Ion:	136	Resp:	15494
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.3	5.8	8.8
68	5.8	4.3	6.5



#8
Nitrobenzene-d5
Concen: 1.627 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:	82	Resp:	19230
Ion	Ratio	Lower	Upper
82	100		
128	42.0	34.8	52.2
54	51.9	42.2	63.2

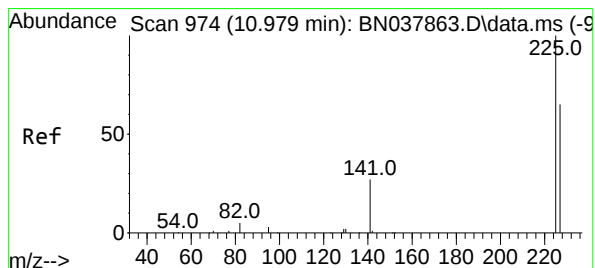
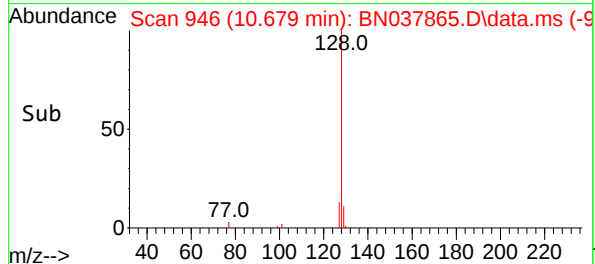
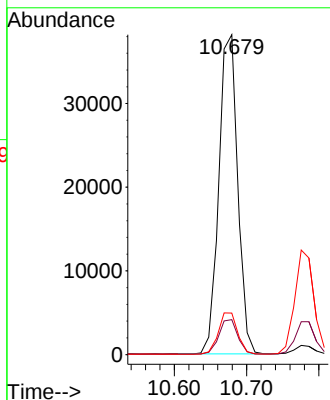
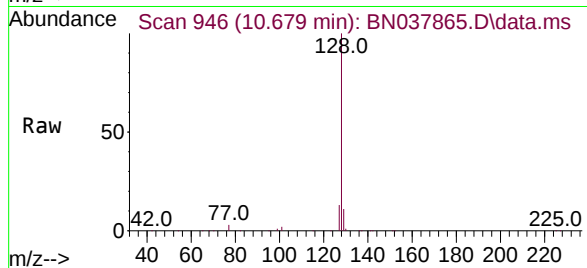




#9
Naphthalene
Concen: 1.631 ng
RT: 10.679 min Scan# 945
Delta R.T. 0.010 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

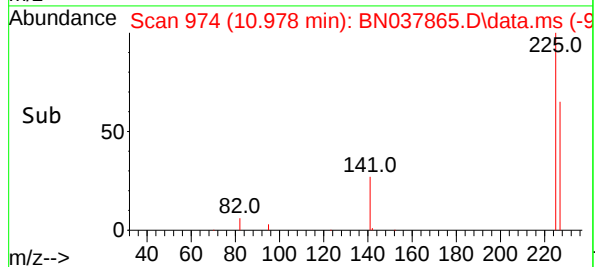
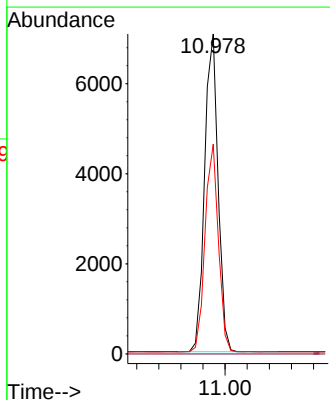
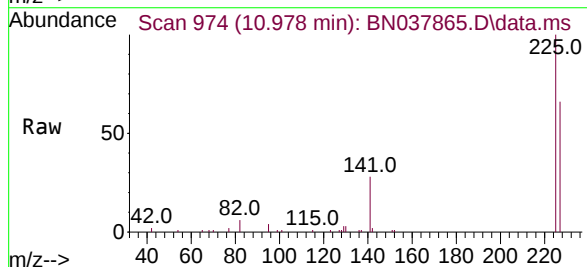
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

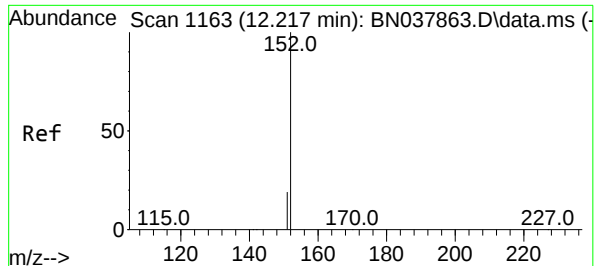
Tgt Ion:128 Resp: 69620
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 13.0 11.0 16.6



#10
Hexachlorobutadiene
Concen: 1.634 ng
RT: 10.978 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:225 Resp: 11899
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.6 51.4 77.2

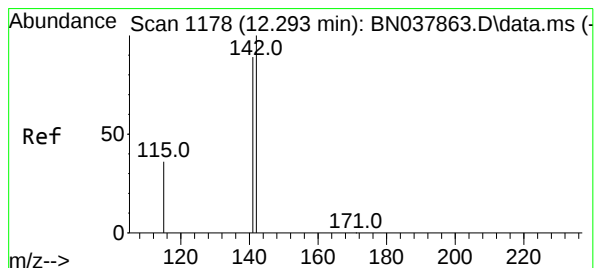
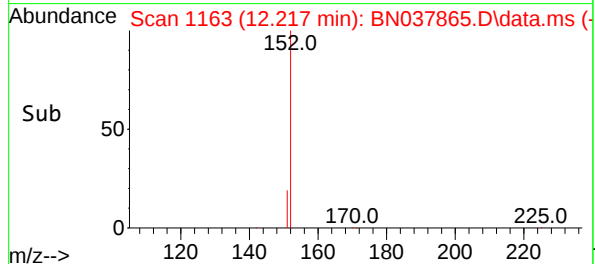
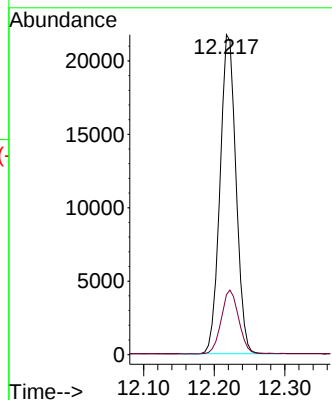
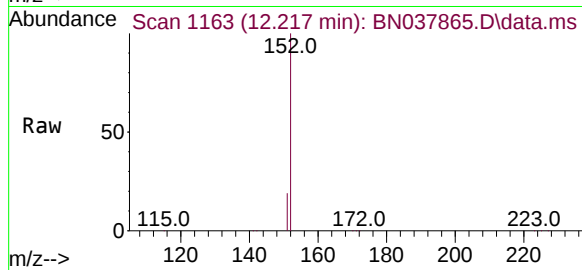




#11
2-Methylnaphthalene-d10
Concen: 1.592 ng
RT: 12.217 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

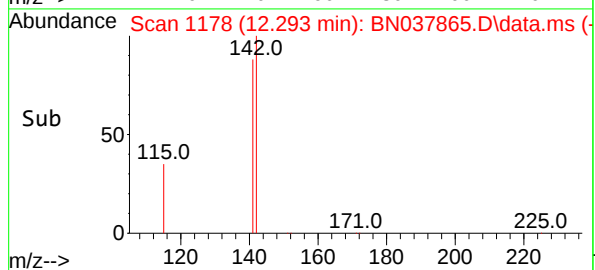
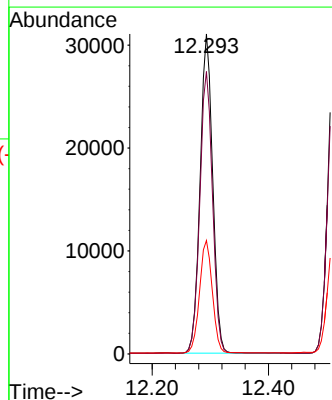
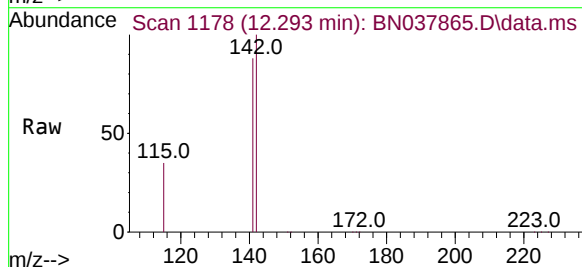
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

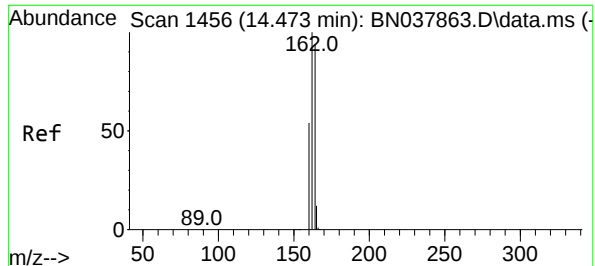
Tgt Ion:152 Resp: 34256
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 1.675 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:142 Resp: 46704
Ion Ratio Lower Upper
142 100
141 88.2 71.2 106.8
115 35.4 29.7 44.5

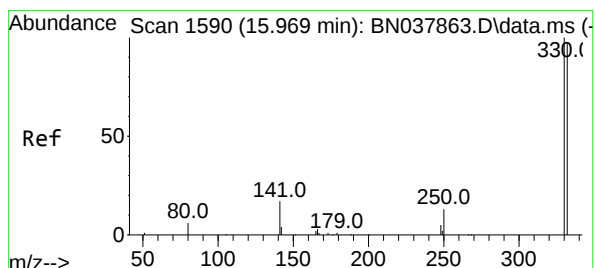
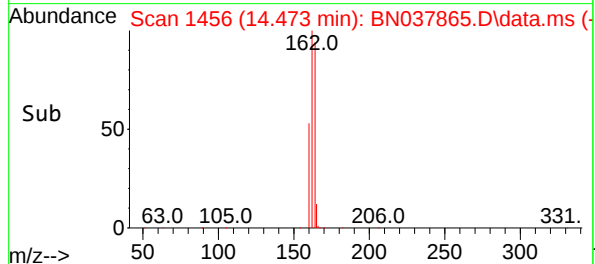
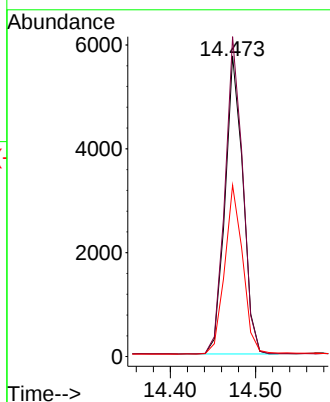
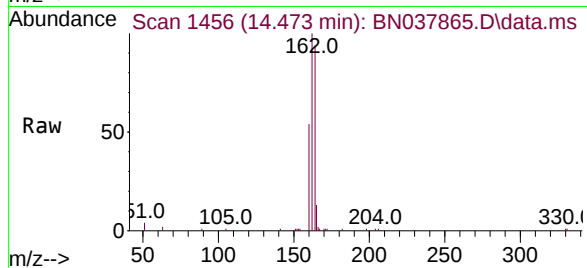




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

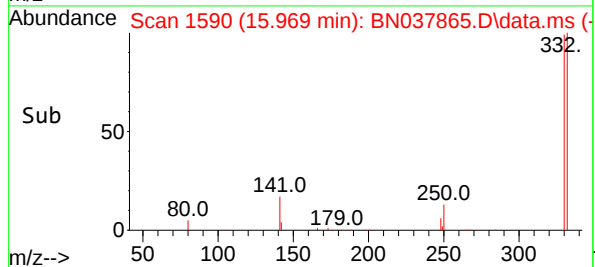
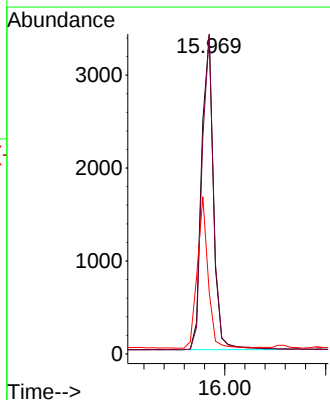
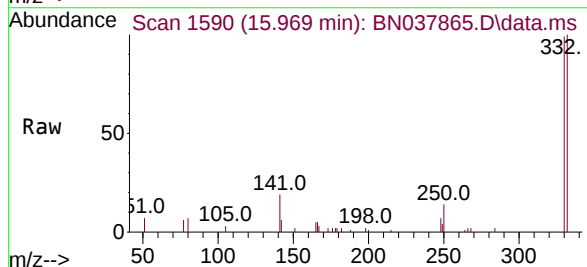
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

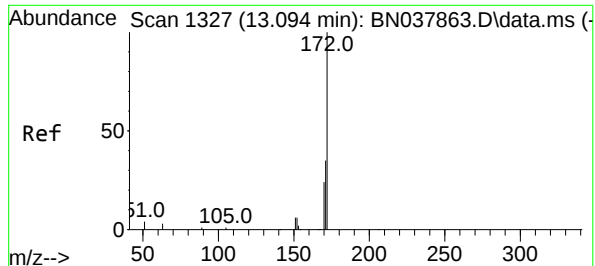
Tgt Ion	164	162	160
Resp:	8404		
Ion Ratio	100	106.4	57.0
Lower		84.8	46.1
Upper		127.2	69.1



#14
2,4,6-Tribromophenol
Concen: 1.613 ng
RT: 15.969 min Scan# 1590
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion	330	332	141
Resp:	5471		
Ion Ratio	100	98.1	44.0
Lower		77.2	37.2
Upper		115.8	55.8





#15

2-Fluorobiphenyl

Concen: 1.616 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

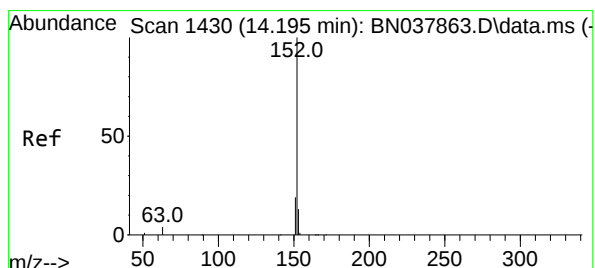
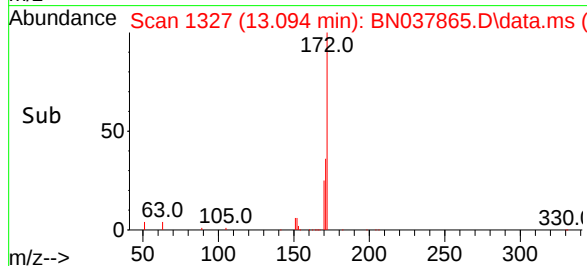
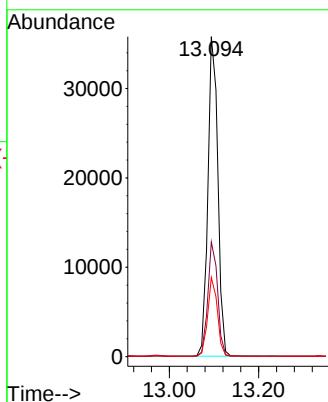
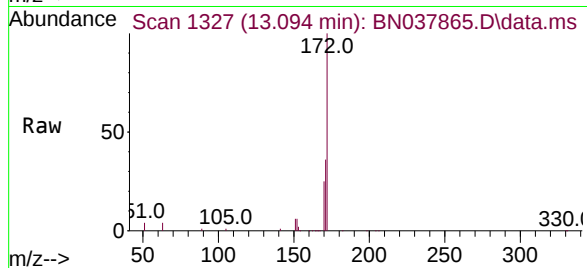
Tgt Ion:172 Resp: 55598

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.7 19.7 29.5



#16

Acenaphthylene

Concen: 1.680 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

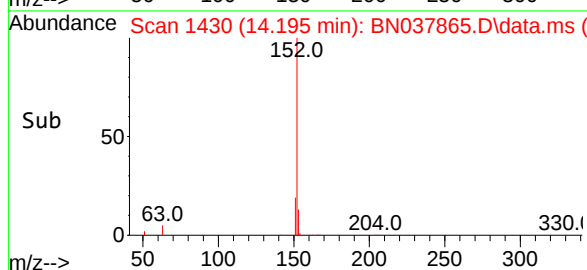
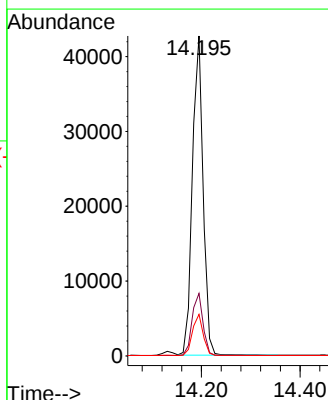
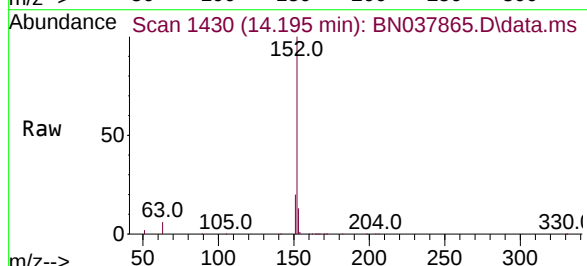
Tgt Ion:152 Resp: 64093

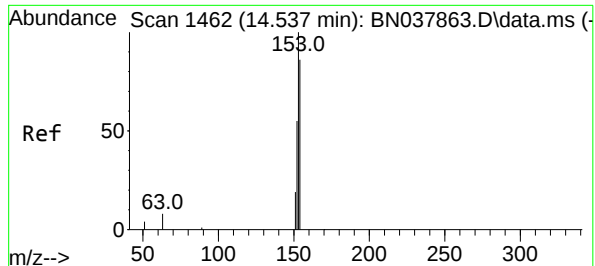
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.9 10.5 15.7

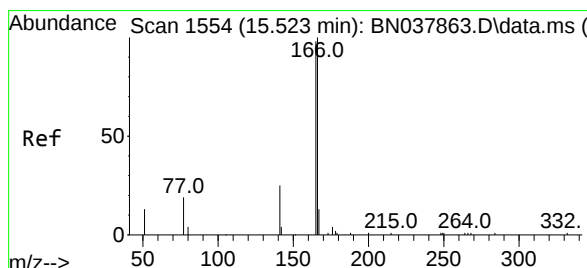
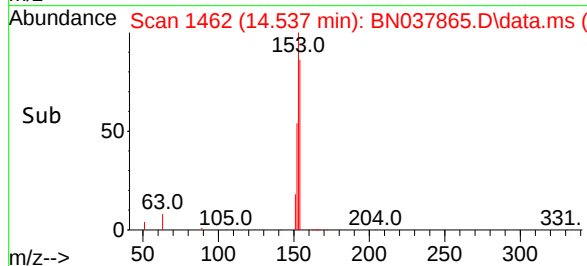
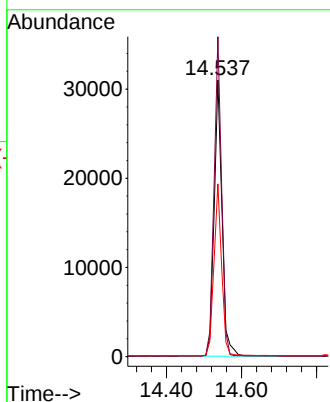
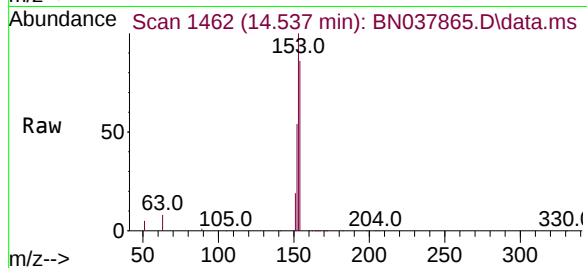




#17
Acenaphthene
Concen: 1.670 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

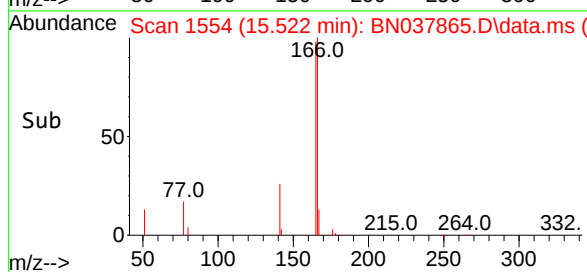
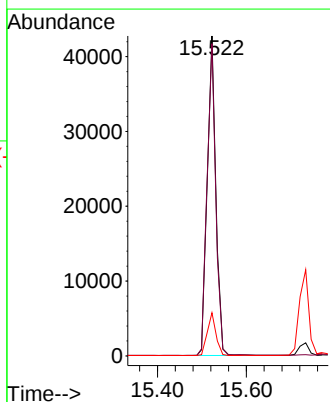
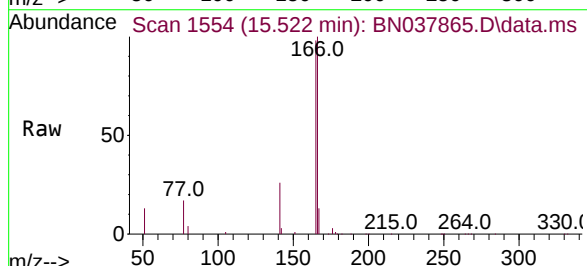
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

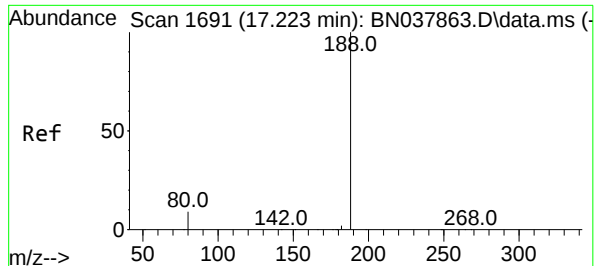
Tgt Ion:154 Resp: 45411
Ion Ratio Lower Upper
154 100
153 110.4 90.5 135.7
152 61.0 51.8 77.8



#18
Fluorene
Concen: 1.701 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:166 Resp: 55922
Ion Ratio Lower Upper
166 100
165 99.1 79.0 118.4
167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

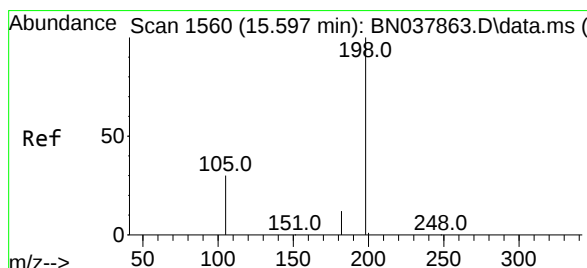
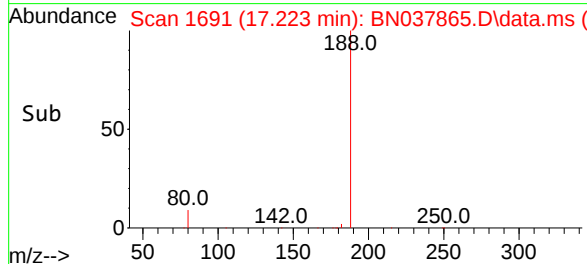
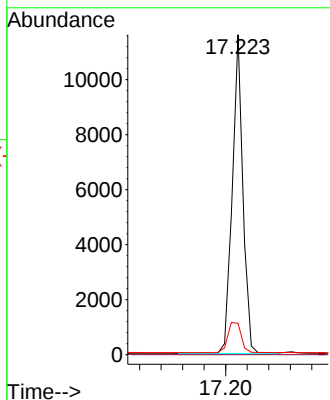
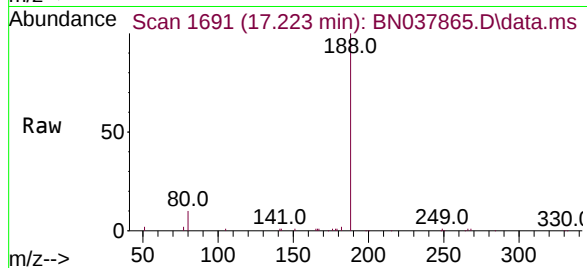
Tgt Ion:188 Resp: 15875

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.602 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

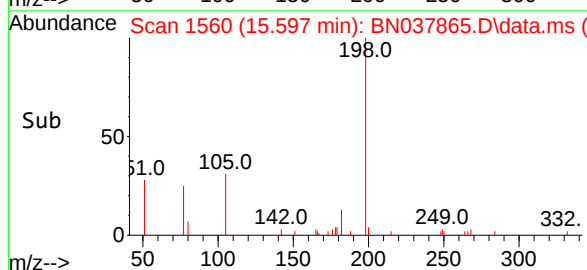
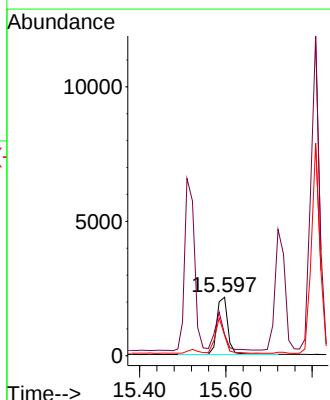
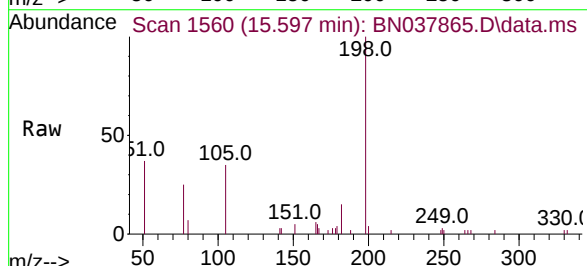
Tgt Ion:198 Resp: 3669

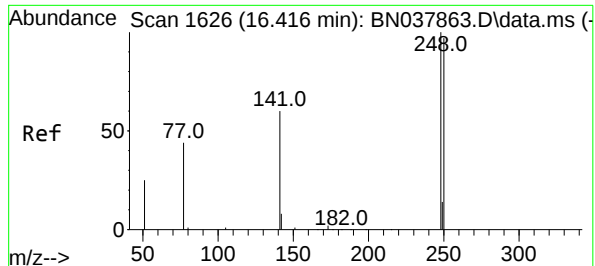
Ion Ratio Lower Upper

198 100

51 36.7 59.1 88.7#

105 34.9 41.3 61.9#

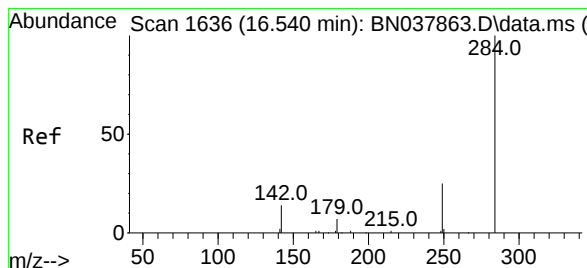
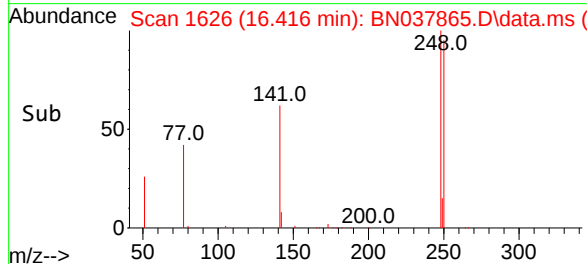
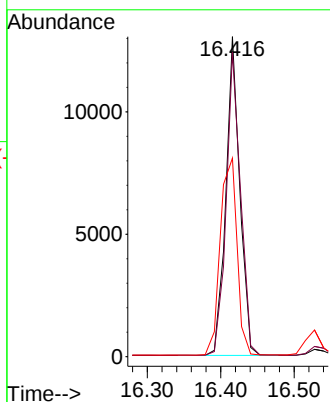
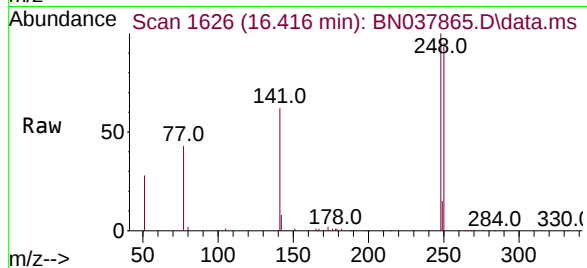




#21
4-Bromophenyl-phenylether
Concen: 1.670 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

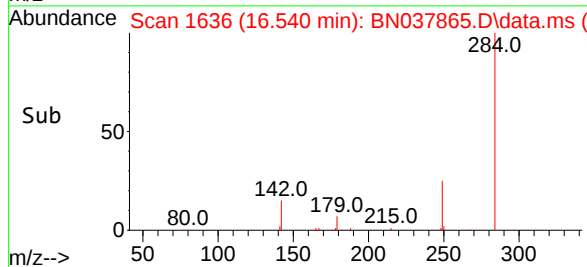
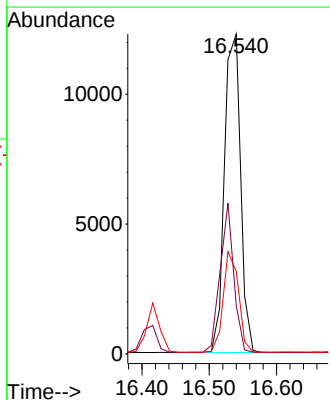
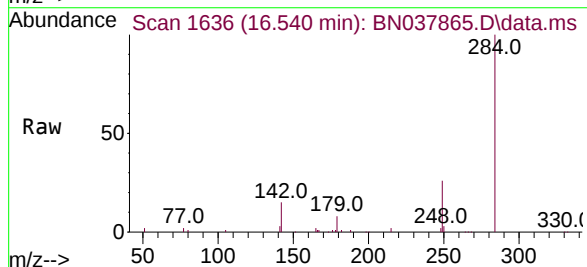
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

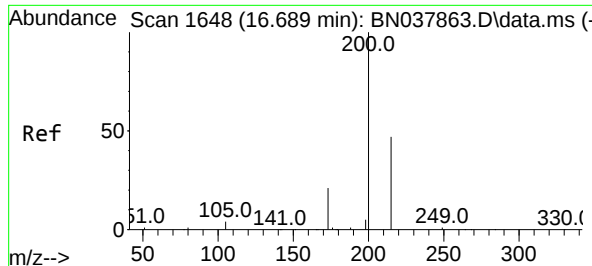
Tgt Ion:248 Resp: 17278
Ion Ratio Lower Upper
248 100
250 95.0 77.6 116.4
141 62.0 48.8 73.2



#22
Hexachlorobenzene
Concen: 1.638 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:284 Resp: 20548
Ion Ratio Lower Upper
284 100
142 39.6 30.9 46.3
249 29.9 23.9 35.9

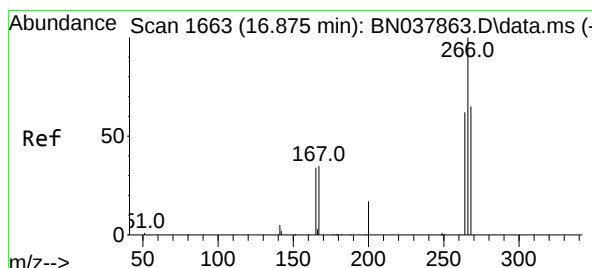
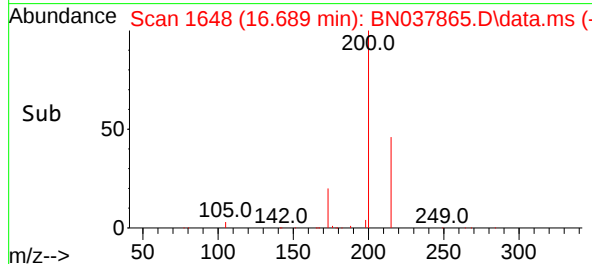
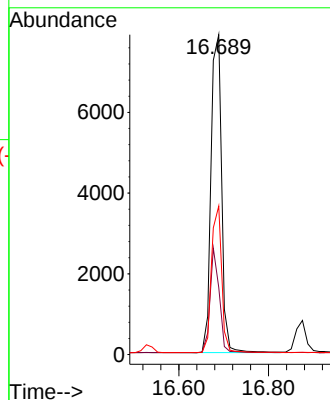
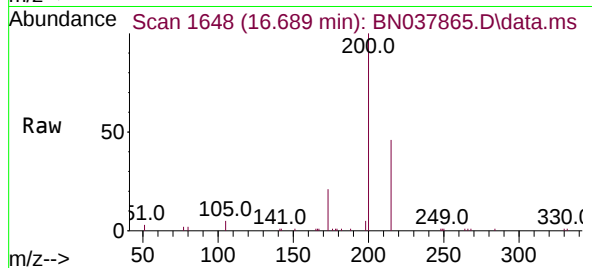




#23
Atrazine
Concen: 1.656 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

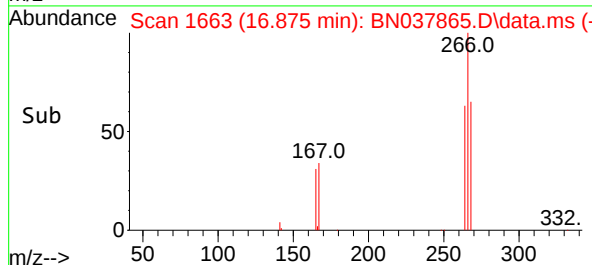
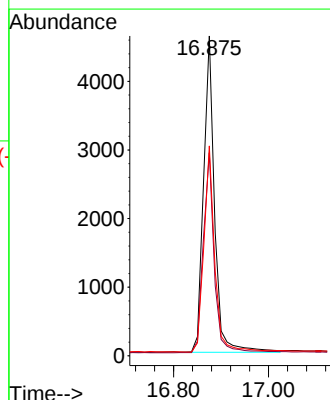
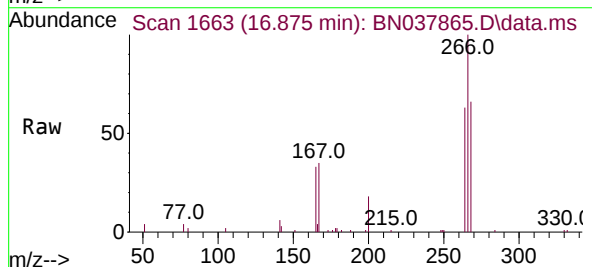
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

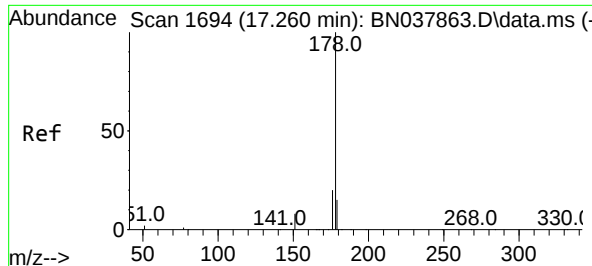
Tgt Ion:	200	Resp:	13043
Ion Ratio	Lower	Upper	
200	100		
173	21.0	18.3	27.5
215	46.4	38.6	58.0



#24
Pentachlorophenol
Concen: 1.718 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037865.D
Acq: 23 Sep 2025 14:38

Tgt Ion:	266	Resp:	7393
Ion Ratio	Lower	Upper	
266	100		
264	63.1	50.9	76.3
268	64.6	54.3	81.5





#25

Phenanthrene

Concen: 1.650 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

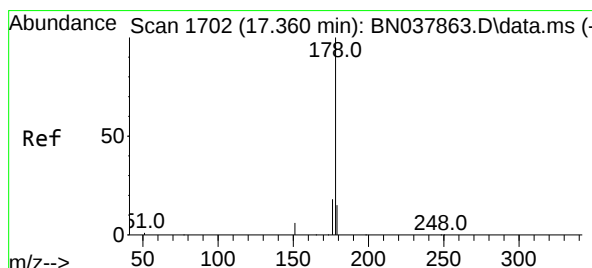
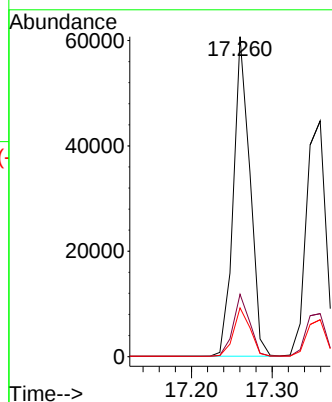
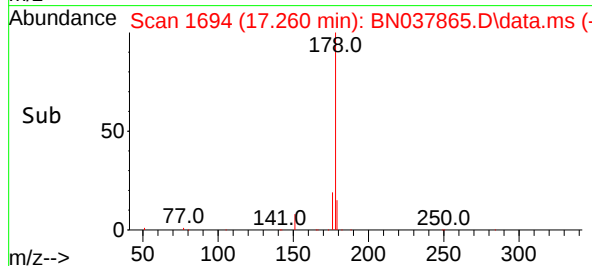
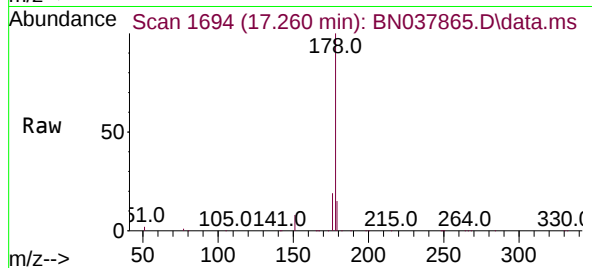
Tgt Ion:178 Resp: 86207

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.3 12.3 18.5



#26

Anthracene

Concen: 1.693 ng

RT: 17.359 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

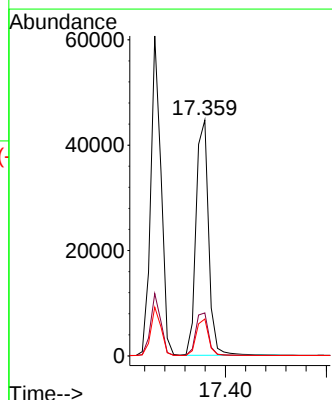
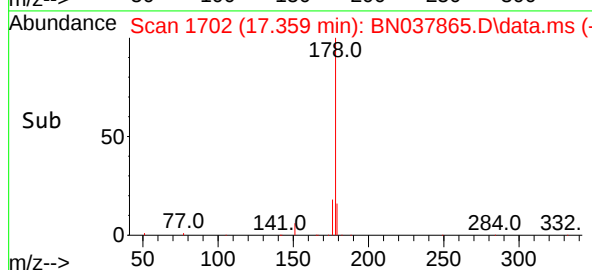
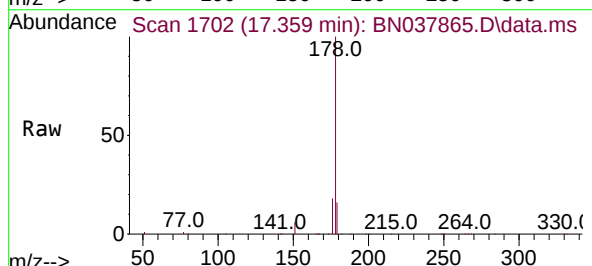
Tgt Ion:178 Resp: 76744

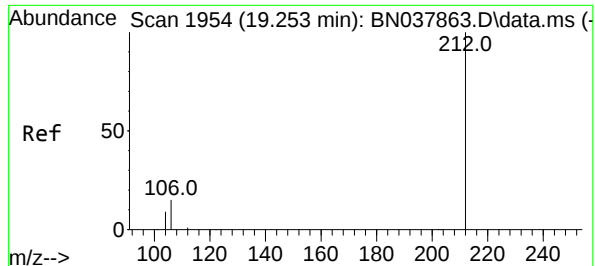
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

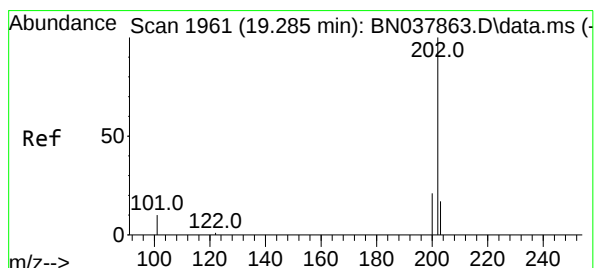
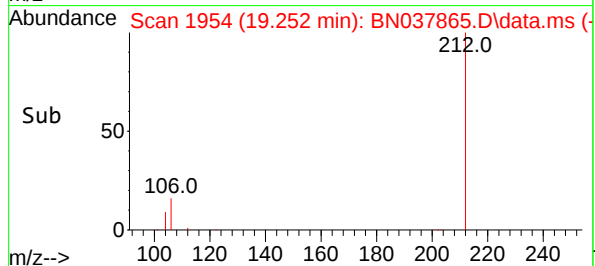
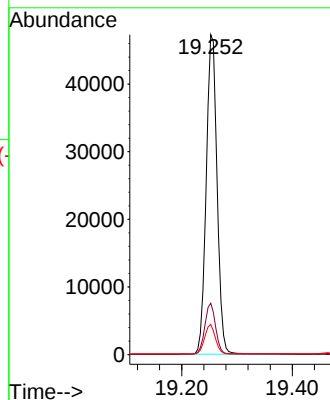
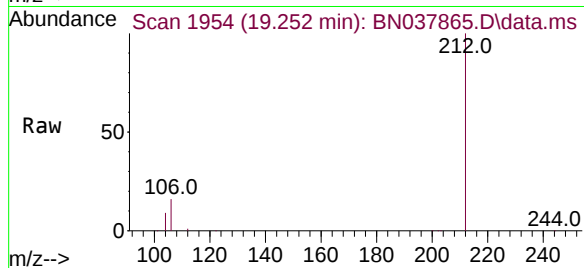
Tgt Ion:212 Resp: 63771

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 1.717 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

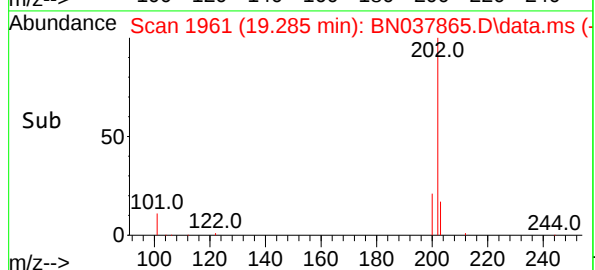
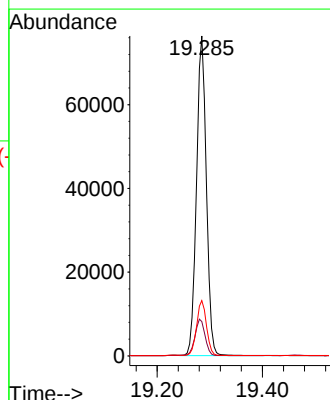
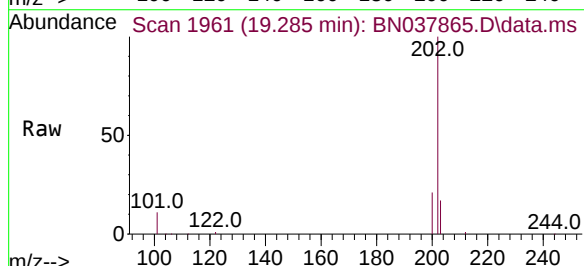
Tgt Ion:202 Resp: 98772

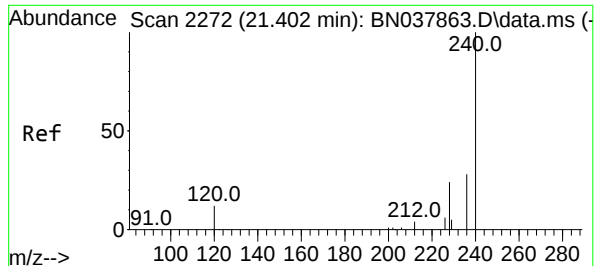
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

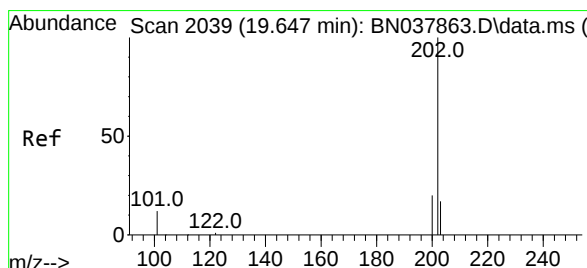
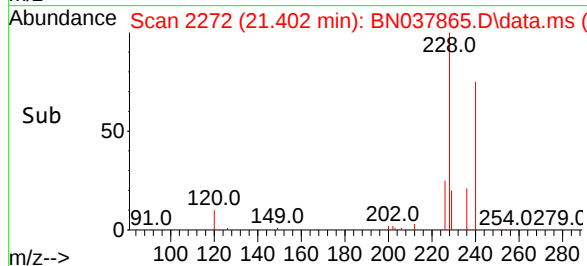
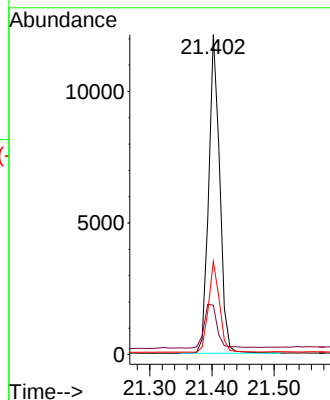
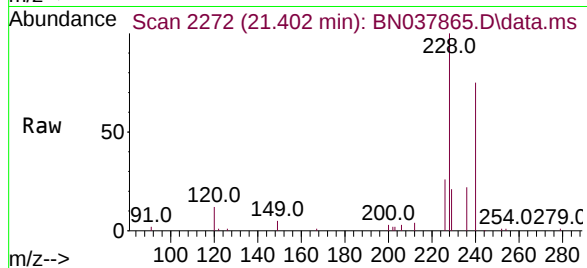
Tgt Ion:240 Resp: 14963

Ion Ratio Lower Upper

240 100

120 15.4 11.4 17.2

236 29.1 23.0 34.6



#30

Pyrene

Concen: 1.628 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

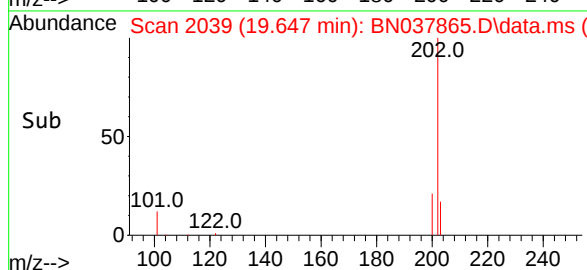
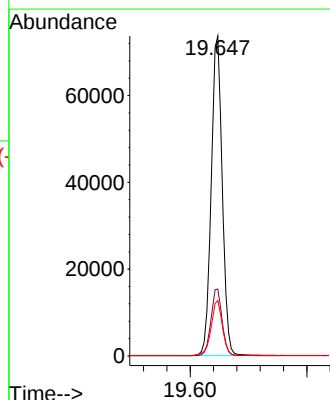
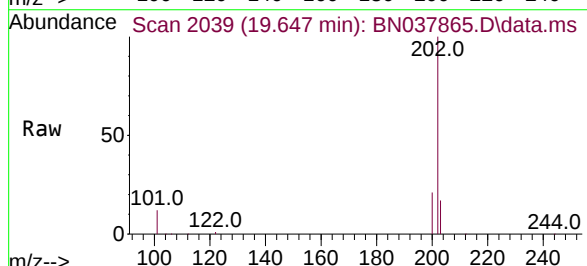
Tgt Ion:202 Resp: 96189

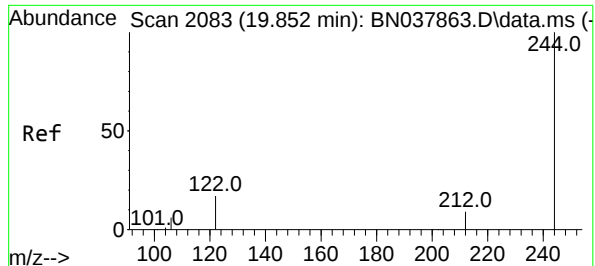
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.6 14.2 21.4





#31

Terphenyl-d14

Concen: 1.603 ng

RT: 19.852 min Scan# 2083

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

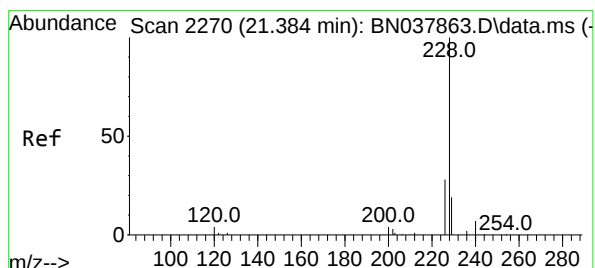
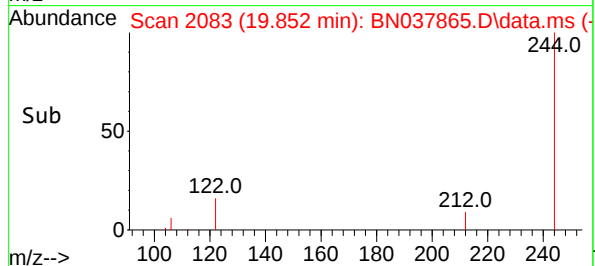
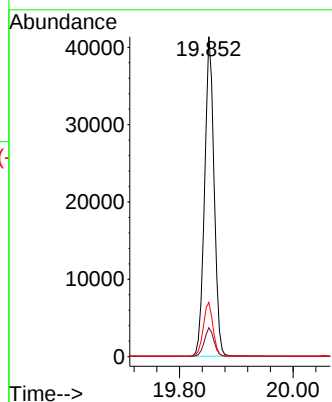
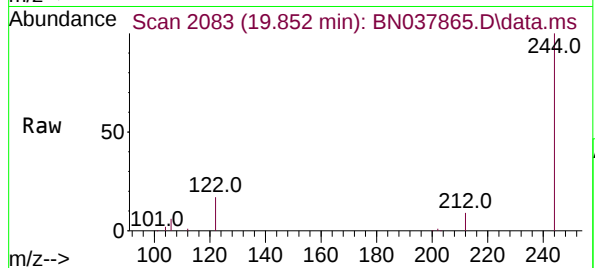
Tgt Ion:244 Resp: 47765

Ion Ratio Lower Upper

244 100

212 9.0 7.6 11.4

122 16.9 13.9 20.9



#32

Benzo(a)anthracene

Concen: 1.628 ng

RT: 21.384 min Scan# 2270

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

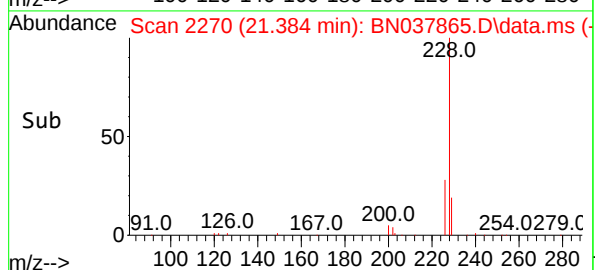
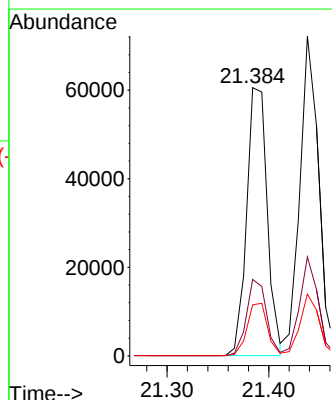
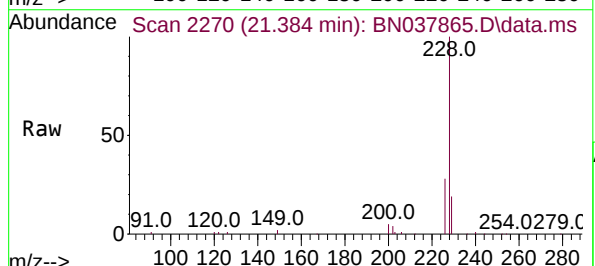
Tgt Ion:228 Resp: 85145

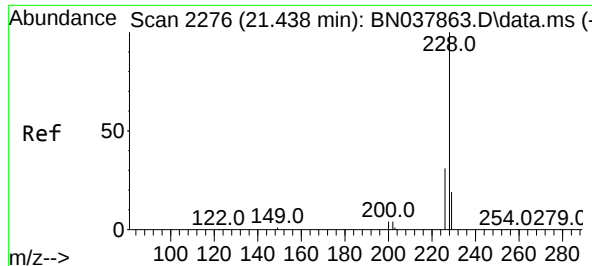
Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

229 19.1 15.6 23.4





#33

Chrysene

Concen: 1.650 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

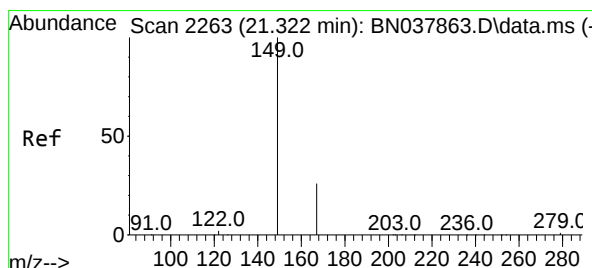
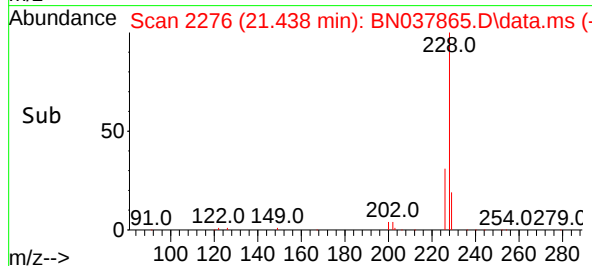
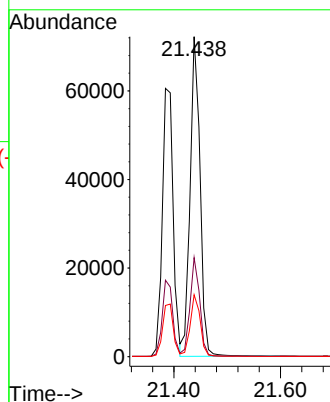
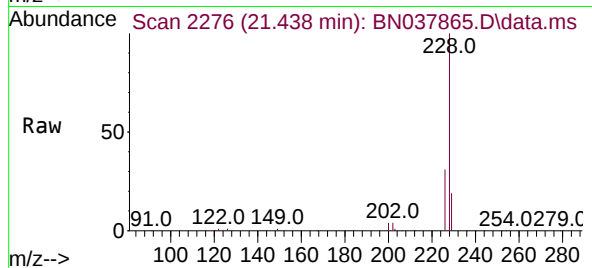
Tgt Ion:228 Resp: 93309

Ion Ratio Lower Upper

228 100

226 30.9 24.6 37.0

229 19.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.500 ng

RT: 21.330 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

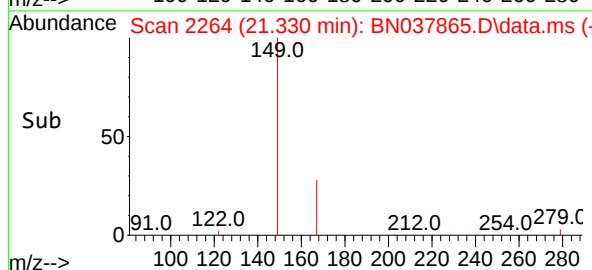
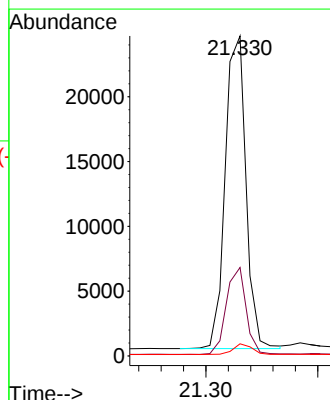
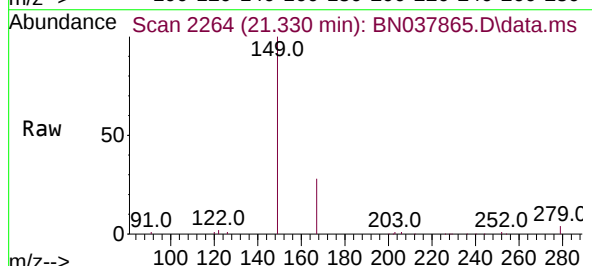
Tgt Ion:149 Resp: 31032

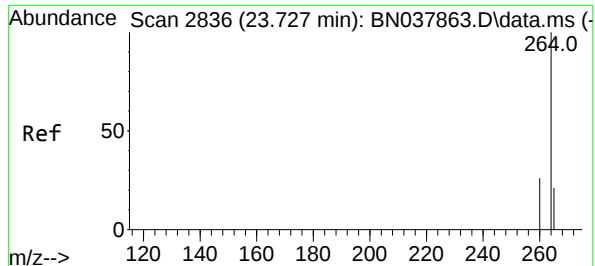
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.4 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.735 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037865.D

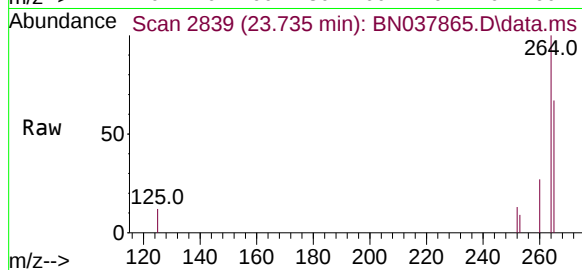
Acq: 23 Sep 2025 14:38

Instrument :

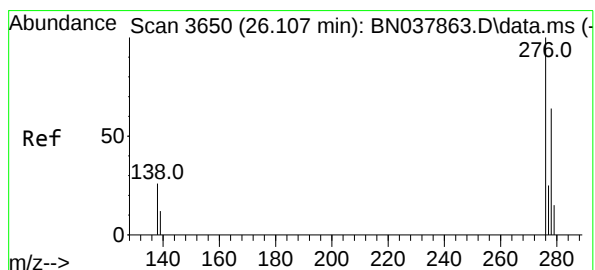
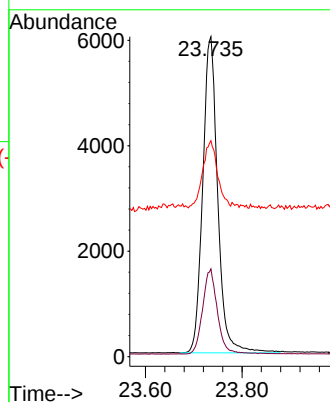
BNA_N

ClientSampleId :

SSTDICC1.6



Tgt Ion:	264	Resp:	12917
Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.5	32.3
265	67.5	53.8	80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.652 ng

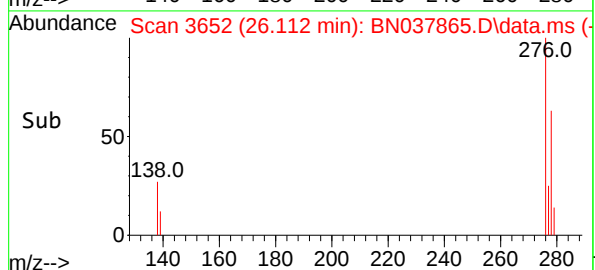
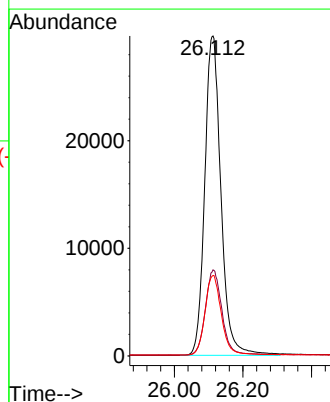
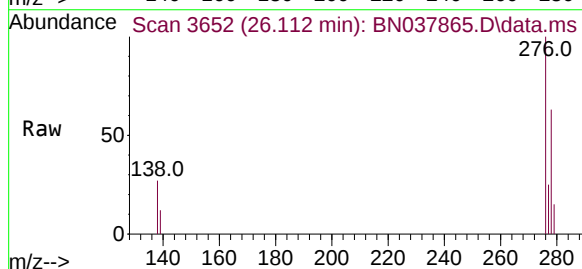
RT: 26.112 min Scan# 3652

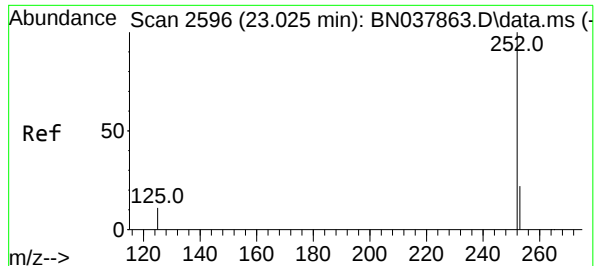
Delta R.T. 0.006 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Tgt Ion:	276	Resp:	97476
Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.4	32.0
277	25.1	20.3	30.5





#37

Benzo(b)fluoranthene

Concen: 1.679 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037865.D

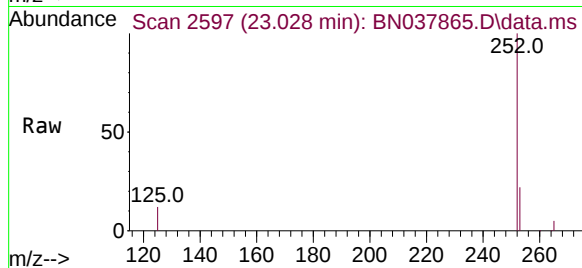
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



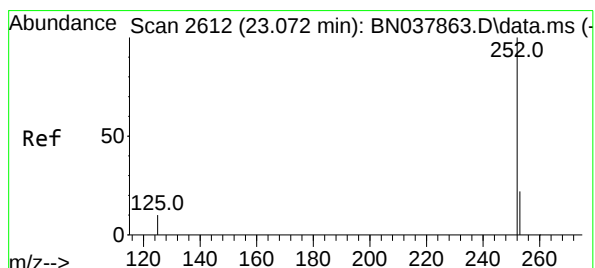
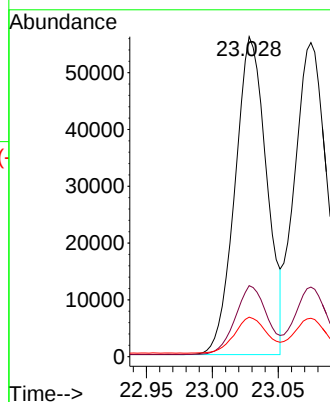
Tgt Ion:252 Resp: 93525

Ion Ratio Lower Upper

252 100

253 22.2 19.4 29.0

125 12.3 13.0 19.4#



#38

Benzo(k)fluoranthene

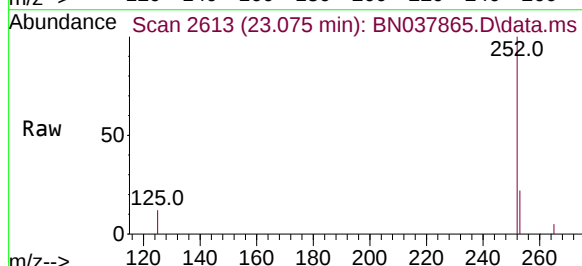
Concen: 1.728 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38



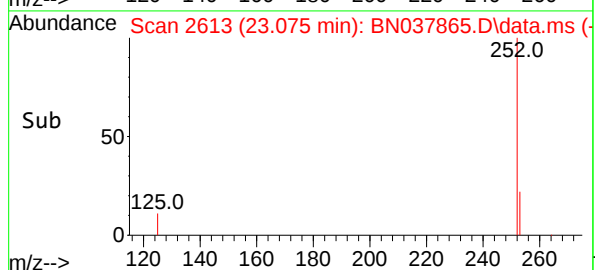
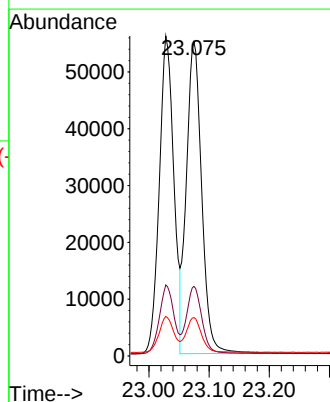
Tgt Ion:252 Resp: 96868

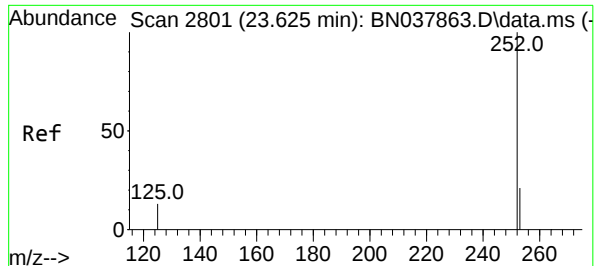
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 12.2 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 1.657 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037865.D

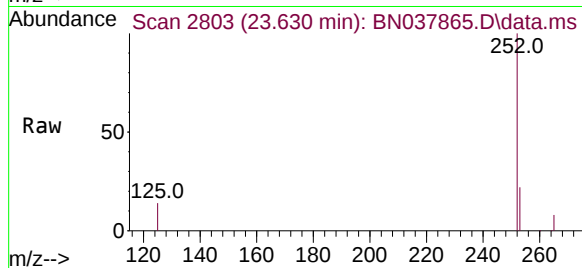
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



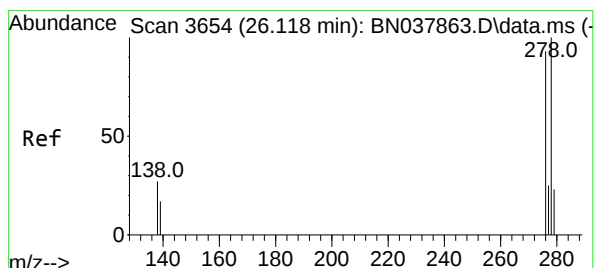
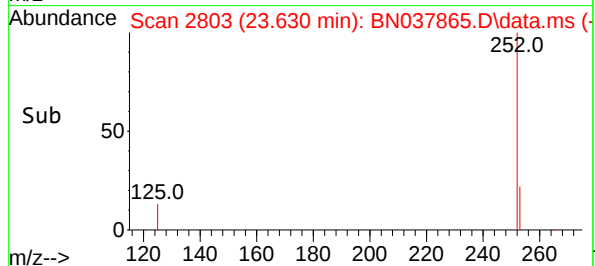
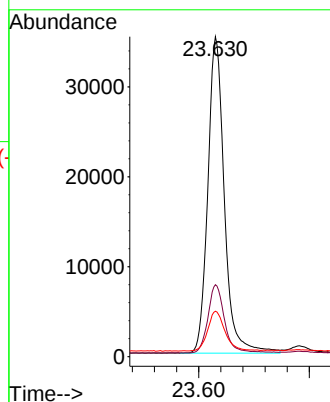
Tgt Ion:252 Resp: 73009

Ion Ratio Lower Upper

252 100

253 22.5 20.6 30.8

125 14.2 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.676 ng

RT: 26.127 min Scan# 3657

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

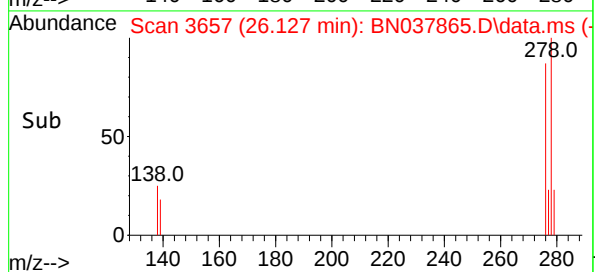
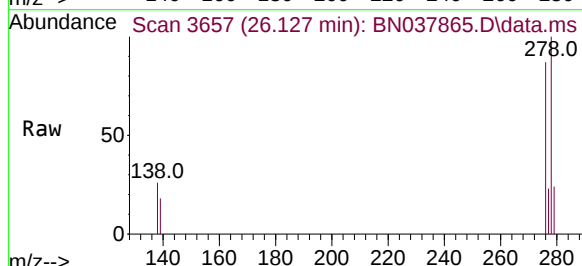
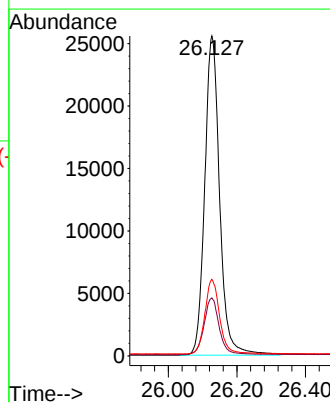
Tgt Ion:278 Resp: 77237

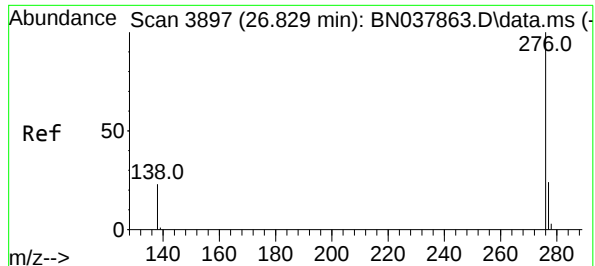
Ion Ratio Lower Upper

278 100

139 18.1 15.4 23.2

279 23.9 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 1.623 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037865.D

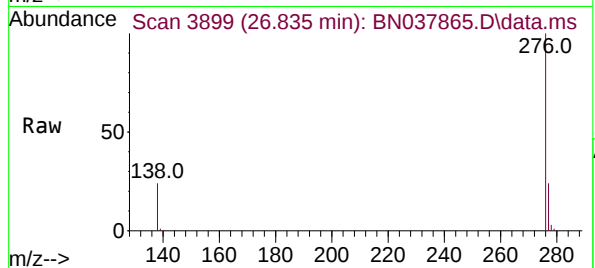
Acq: 23 Sep 2025 14:38

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



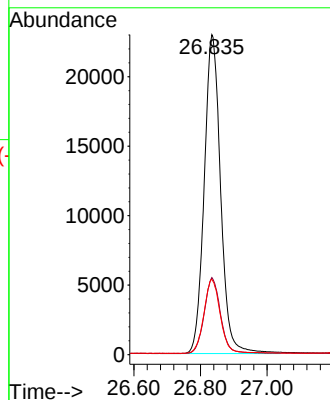
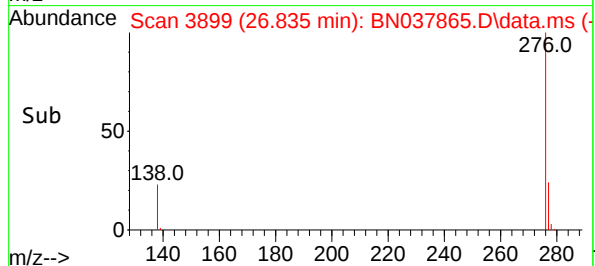
Tgt Ion:276 Resp: 78576

Ion Ratio Lower Upper

276 100

277 24.1 20.2 30.4

138 23.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037866.D
 Acq On : 23 Sep 2025 15:15
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Sep 23 16:23:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

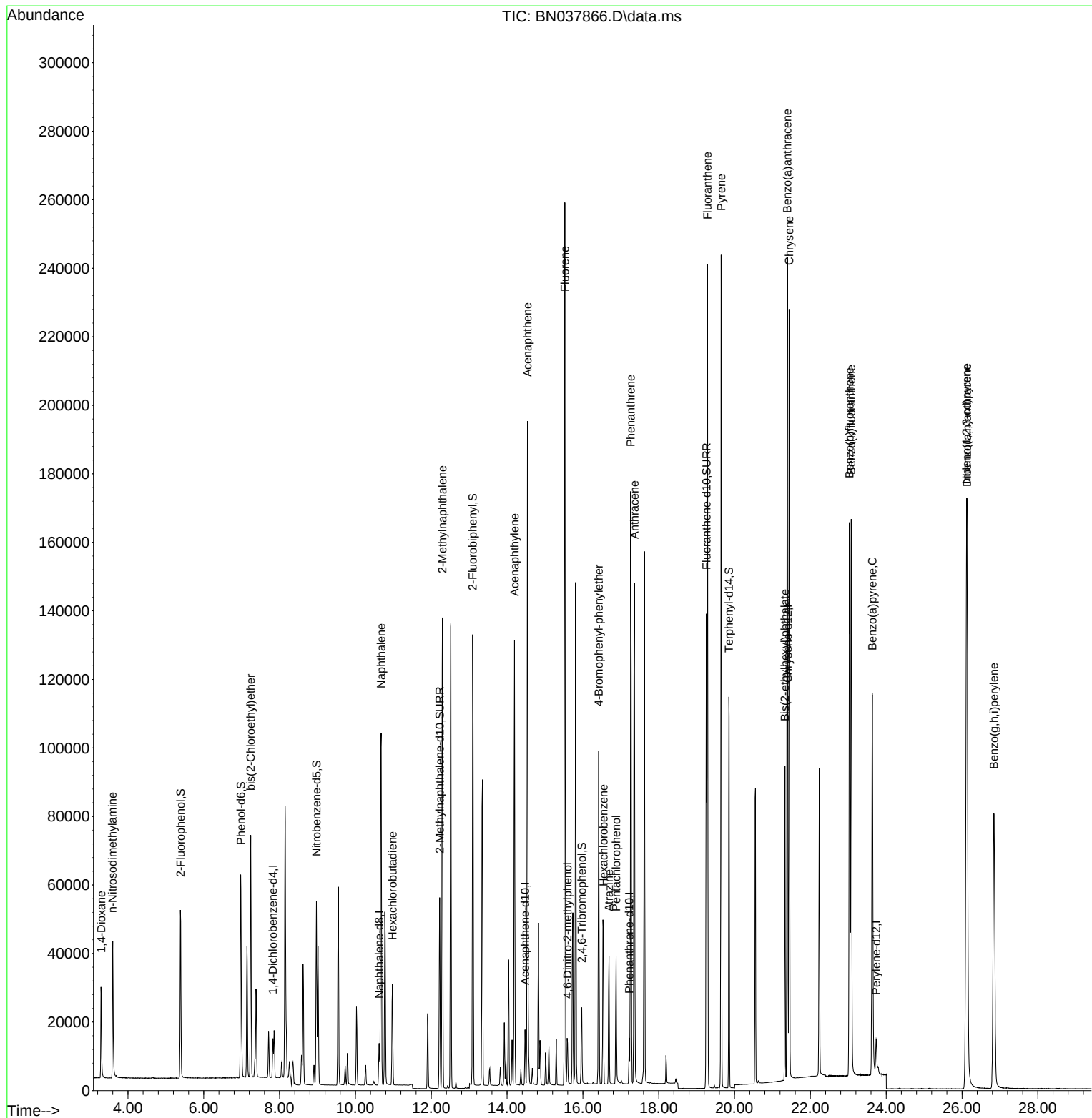
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5486	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	15583	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8623	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16225	0.400	ng	0.00
29) Chrysene-d12	21.402	240	16309	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	13684	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	40521	3.237	ng	0.00
5) Phenol-d6	6.980	99	54237	3.297	ng	0.00
8) Nitrobenzene-d5	8.971	82	39859	3.353	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	73211	3.382	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	12677	3.642	ng	0.00
15) 2-Fluorobiphenyl	13.094	172	113791	3.223	ng	0.00
27) Fluoranthene-d10	19.257	212	140845	3.451	ng	0.00
31) Terphenyl-d14	19.852	244	105582	3.250	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	18009	3.234	ng	99
3) n-Nitrosodimethylamine	3.593	42	24113	3.255	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	49318	3.230	ng	100
9) Naphthalene	10.680	128	141732	3.301	ng	98
10) Hexachlorobutadiene	10.979	225	23493	3.208	ng	# 99
12) 2-Methylnaphthalene	12.293	142	96667	3.447	ng	99
16) Acenaphthylene	14.195	152	134565	3.437	ng	100
17) Acenaphthene	14.537	154	94611	3.392	ng	95
18) Fluorene	15.522	166	118468	3.511	ng	100
20) 4,6-Dinitro-2-methylph...	15.597	198	9172	3.211	ng	# 62
21) 4-Bromophenyl-phenylether	16.416	248	35637	3.370	ng	96
22) Hexachlorobenzene	16.540	284	41902	3.269	ng	100
23) Atrazine	16.689	200	29112	3.616	ng	97
24) Pentachlorophenol	16.875	266	17645	4.011	ng	97
25) Phenanthrene	17.260	178	178985	3.352	ng	99
26) Anthracene	17.360	178	165527	3.573	ng	100
28) Fluoranthene	19.285	202	209920	3.570	ng	99
30) Pyrene	19.647	202	208135	3.232	ng	100
32) Benzo(a)anthracene	21.393	228	193464	3.394	ng	98
33) Chrysene	21.438	228	197283	3.201	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	74195	3.291	ng	98
36) Indeno(1,2,3-cd)pyrene	26.118	276	218487	3.494	ng	100
37) Benzo(b)fluoranthene	23.031	252	202282	3.428	ng	# 93
38) Benzo(k)fluoranthene	23.078	252	209819	3.534	ng	# 93
39) Benzo(a)pyrene	23.636	252	163321	3.499	ng	# 88
40) Dibenzo(a,h)anthracene	26.133	278	173724	3.558	ng	96
41) Benzo(g,h,i)perylene	26.841	276	176617	3.443	ng	97

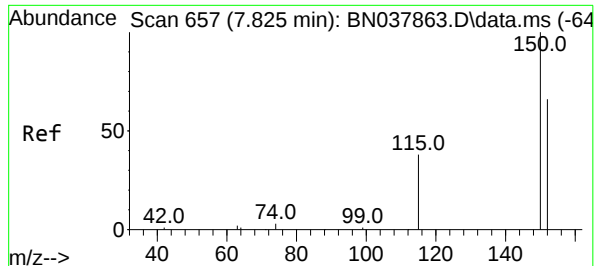
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037866.D
Acq On : 23 Sep 2025 15:15
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

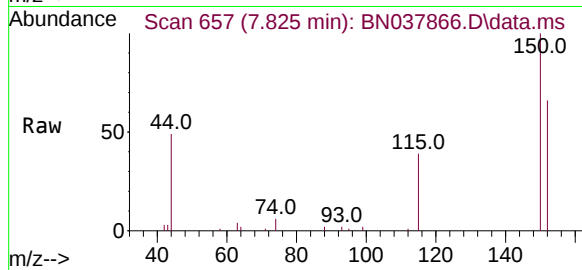
Quant Time: Sep 23 16:23:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration



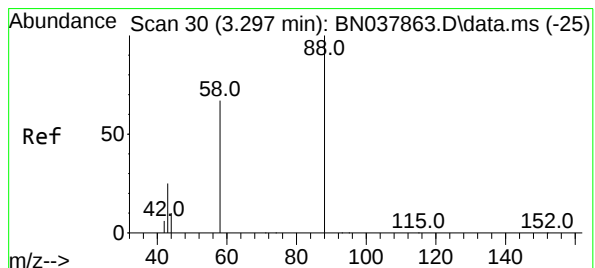
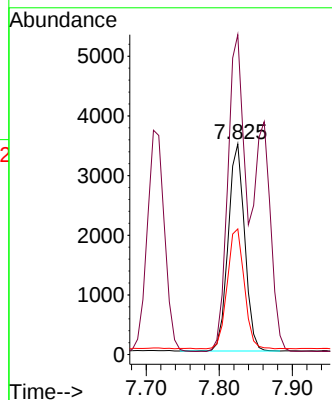
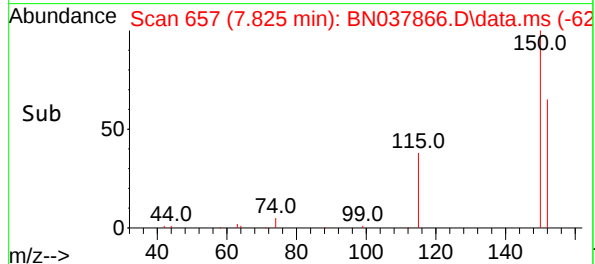


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

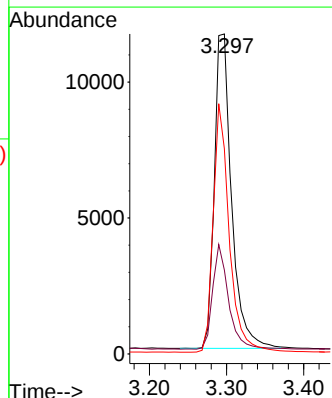
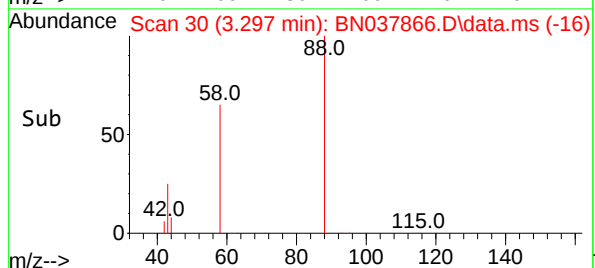
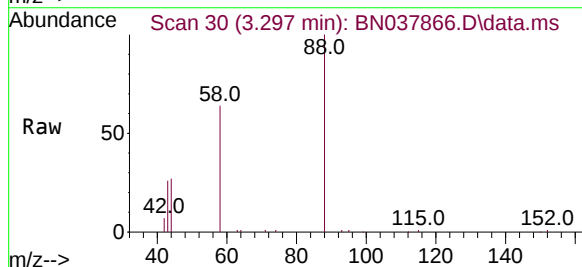


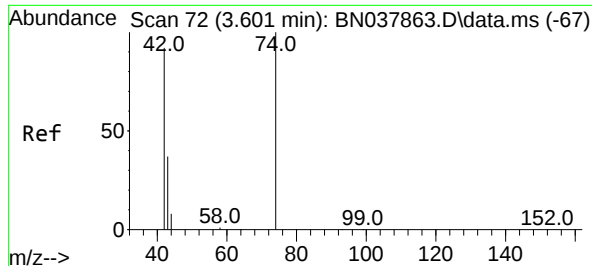
Tgt Ion:152 Resp: 5486
Ion Ratio Lower Upper
152 100
150 151.9 121.0 181.4
115 59.6 47.4 71.0



#2
1,4-Dioxane
Concen: 3.234 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 88 Resp: 18009
Ion Ratio Lower Upper
88 100
43 30.7 26.6 39.8
58 73.6 58.9 88.3

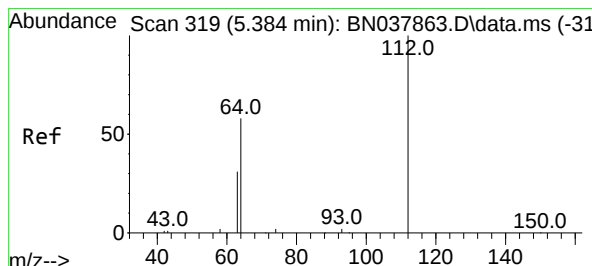
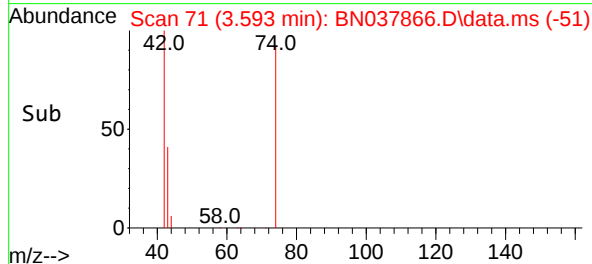
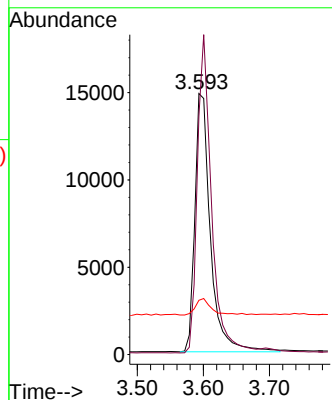
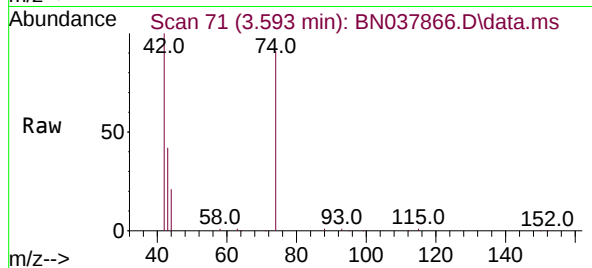




#3
n-Nitrosodimethylamine
Concen: 3.255 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

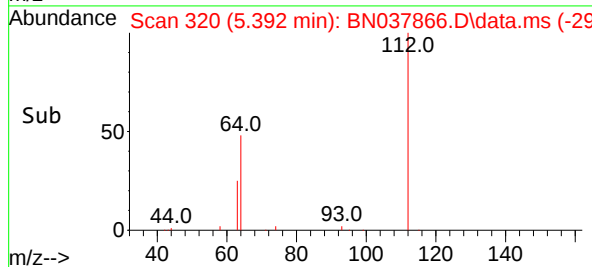
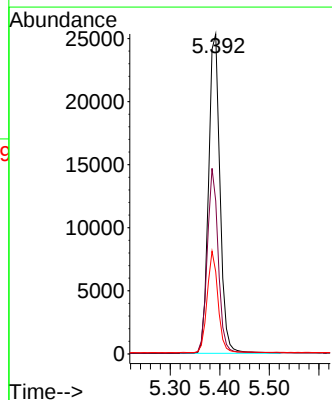
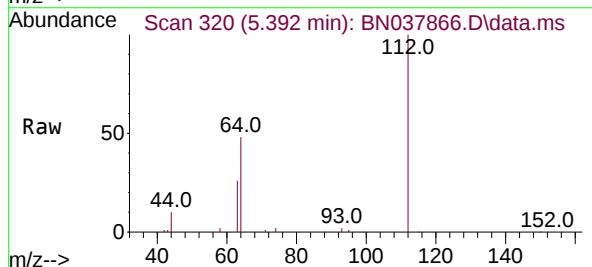
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

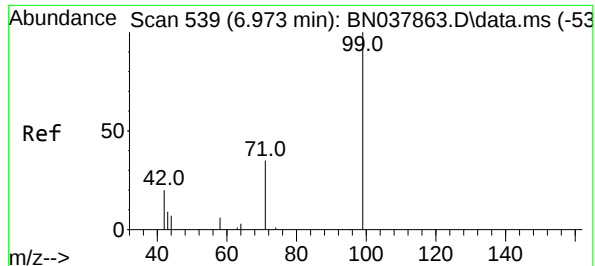
Tgt Ion: 42 Resp: 24113
Ion Ratio Lower Upper
42 100
74 112.5 93.4 140.0
44 6.3 22.2 33.4#



#4
2-Fluorophenol
Concen: 3.237 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 112 Resp: 40521
Ion Ratio Lower Upper
112 100
64 55.6 44.6 66.8
63 30.1 24.9 37.3

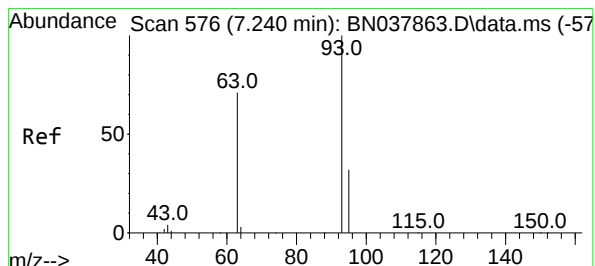
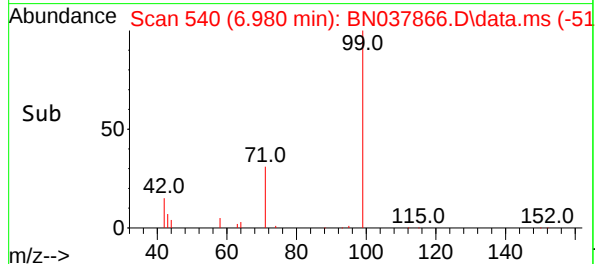
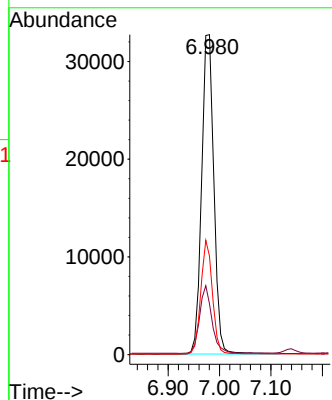
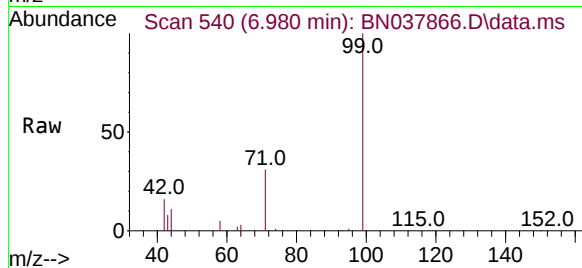




#5
Phenol-d6
Concen: 3.297 ng
RT: 6.980 min Scan# 54
Delta R.T. 0.007 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

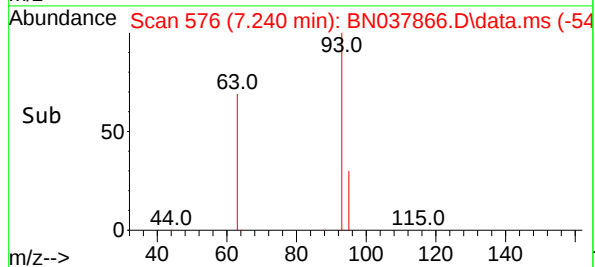
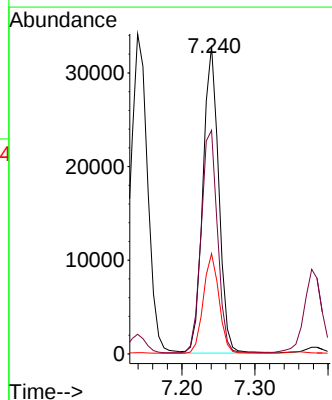
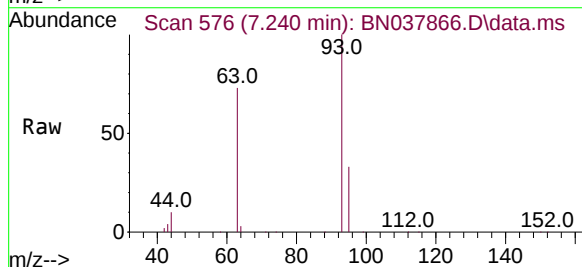
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

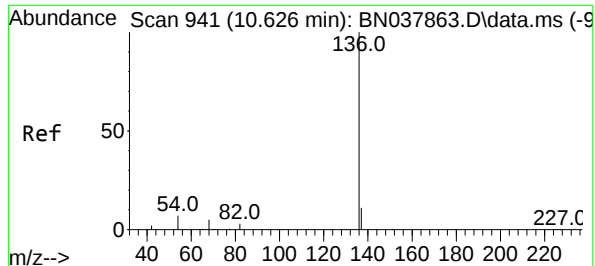
Tgt Ion: 99 Resp: 54237
Ion Ratio Lower Upper
99 100
42 21.2 17.2 25.8
71 33.7 27.3 40.9



#6
bis(2-Chloroethyl)ether
Concen: 3.230 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion: 93 Resp: 49318
Ion Ratio Lower Upper
93 100
63 74.8 60.1 90.1
95 32.1 25.4 38.2

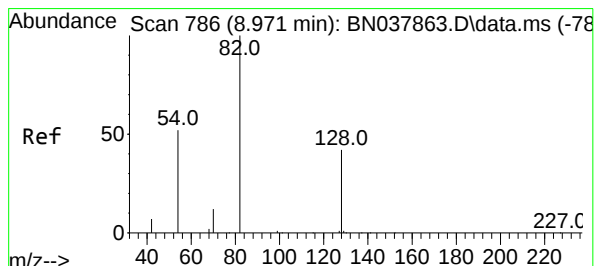
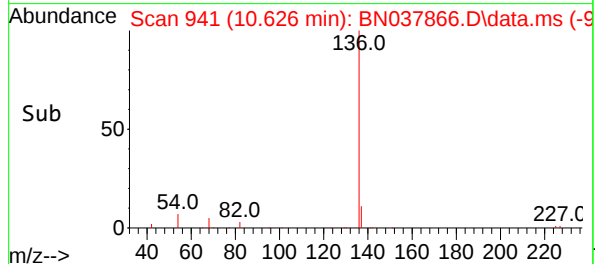
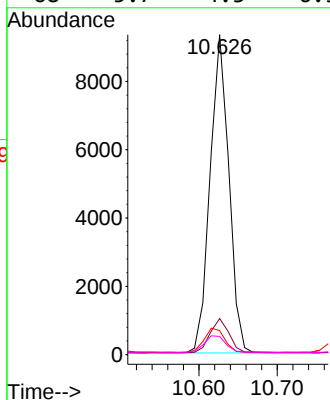
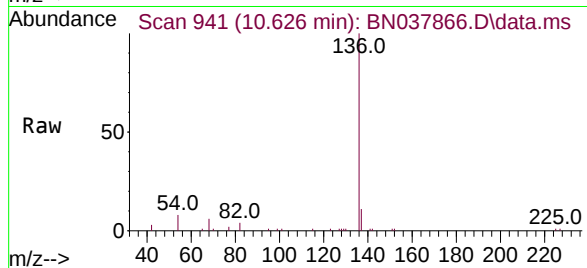




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

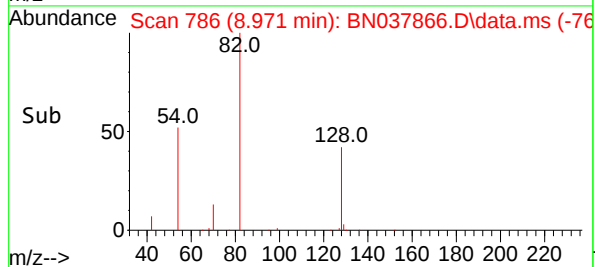
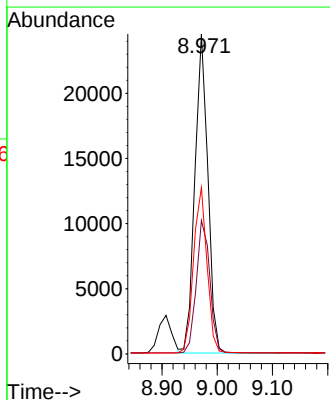
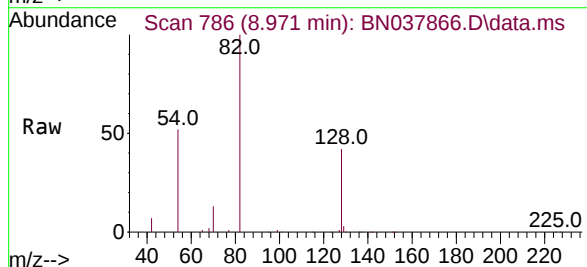
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

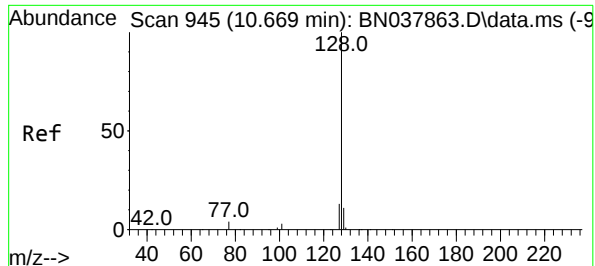
Tgt Ion:	136	Resp:	15583
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.4
54	7.5	5.8	8.8
68	5.7	4.3	6.5



#8
Nitrobenzene-d5
Concen: 3.353 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:	82	Resp:	39859
Ion	Ratio	Lower	Upper
82	100		
128	41.7	34.8	52.2
54	52.0	42.2	63.2

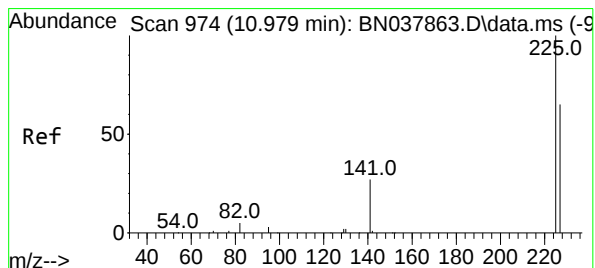
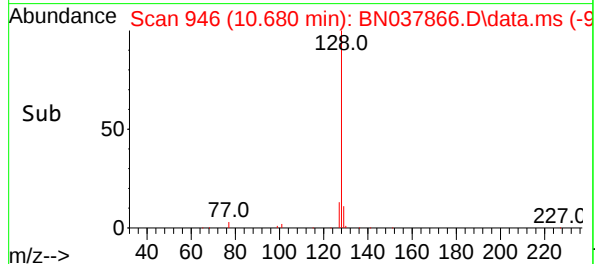
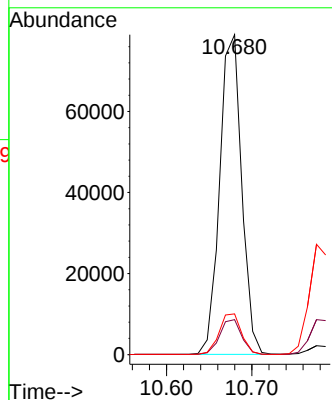
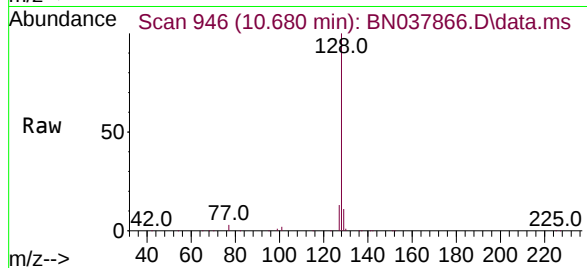




#9
Naphthalene
Concen: 3.301 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

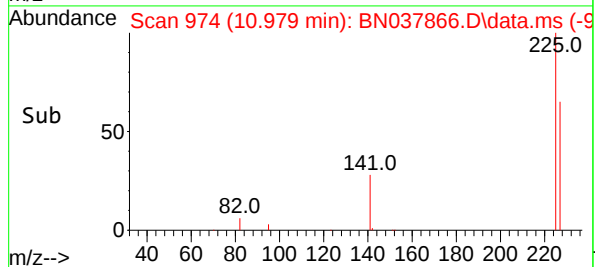
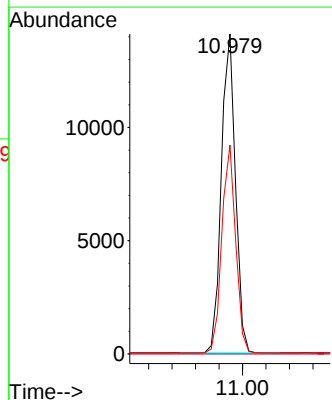
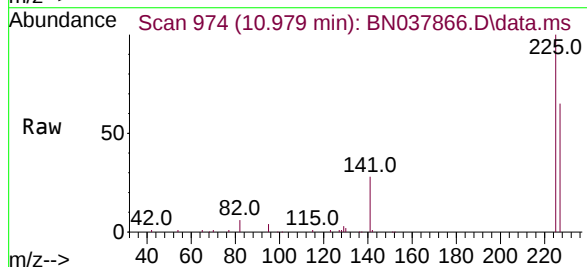
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

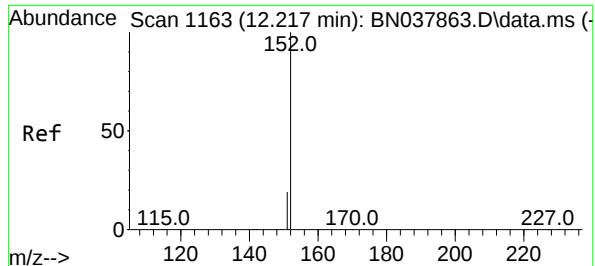
Tgt Ion:128 Resp: 141732
Ion Ratio Lower Upper
128 100
129 10.9 9.2 13.8
127 12.7 11.0 16.6



#10
Hexachlorobutadiene
Concen: 3.208 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:225 Resp: 23493
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 51.4 77.2

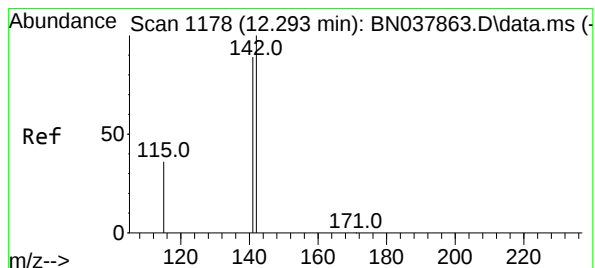
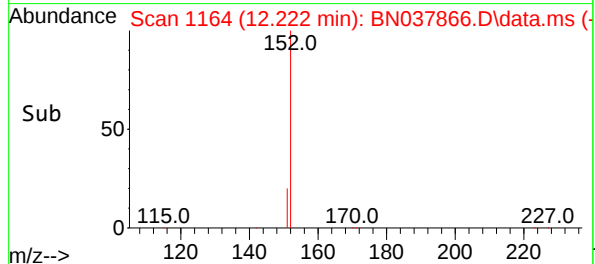
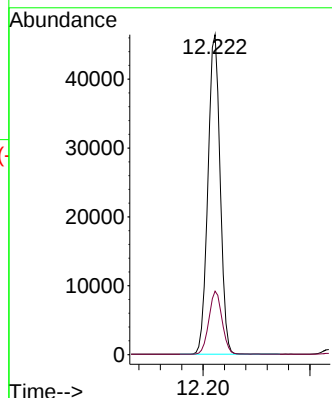
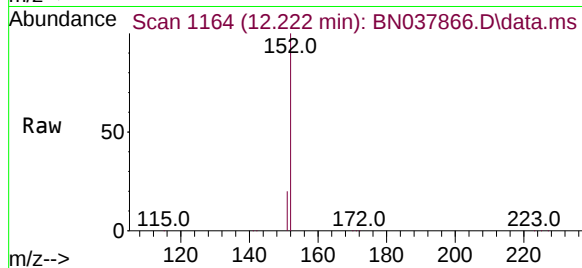




#11
2-Methylnaphthalene-d10
Concen: 3.382 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

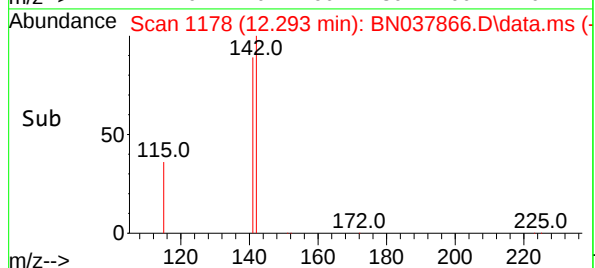
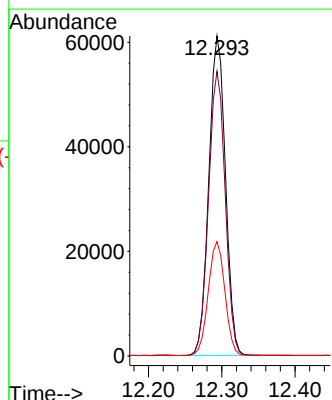
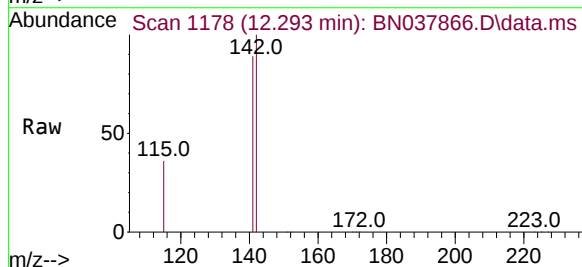
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

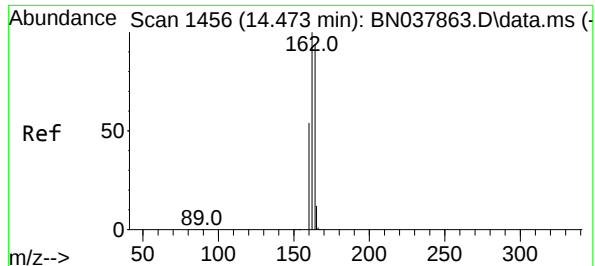
Tgt Ion:152 Resp: 73211
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.2



#12
2-Methylnaphthalene
Concen: 3.447 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:142 Resp: 96667
Ion Ratio Lower Upper
142 100
141 88.9 71.2 106.8
115 35.7 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 1456

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

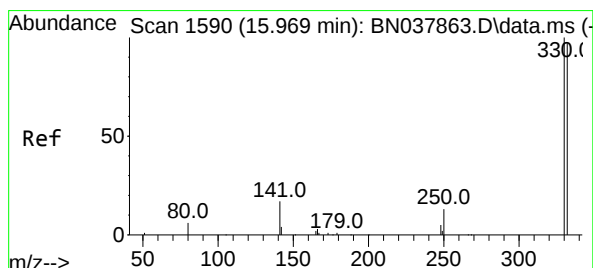
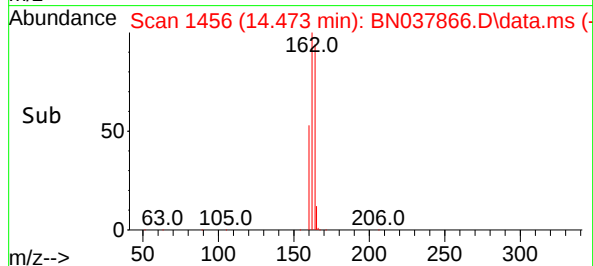
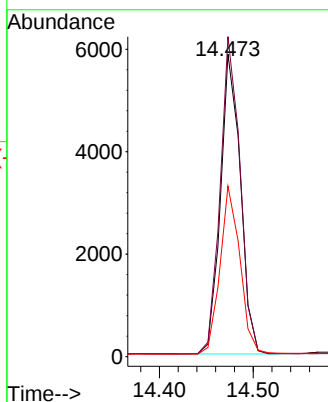
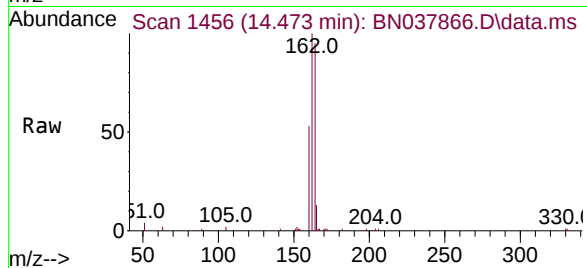
BNA_N

ClientSampleId :

SSTDICC3.2

Tgt Ion:164 Resp: 8623

Ion	Ratio	Lower	Upper
164	100		
162	105.8	84.8	127.2
160	56.4	46.1	69.1



#14

2,4,6-Tribromophenol

Concen: 3.642 ng

RT: 15.969 min Scan# 1590

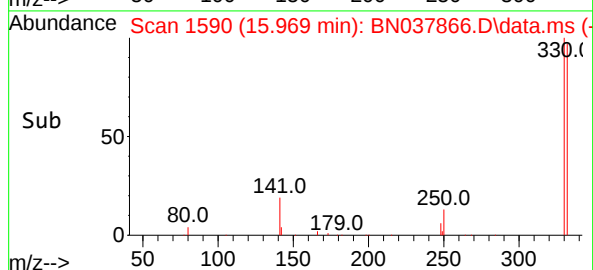
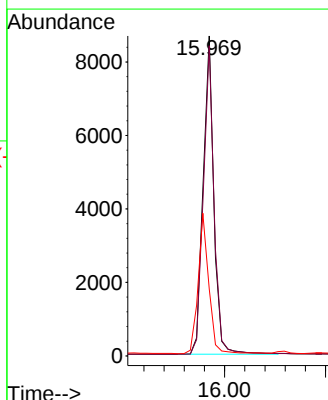
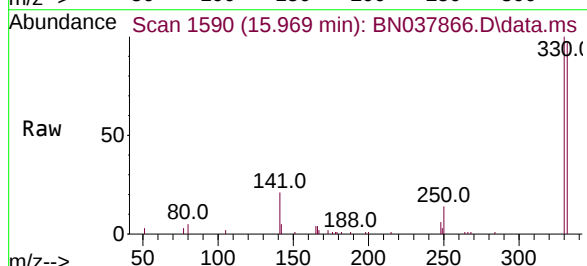
Delta R.T. -0.000 min

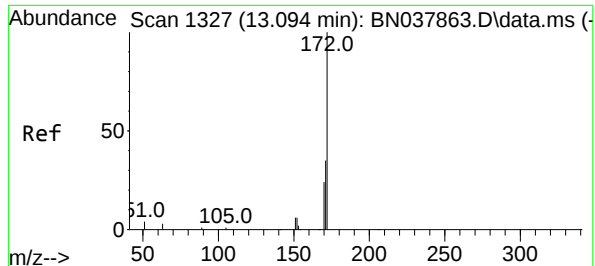
Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Tgt Ion:330 Resp: 12677

Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.2	115.8
141	44.0	37.2	55.8

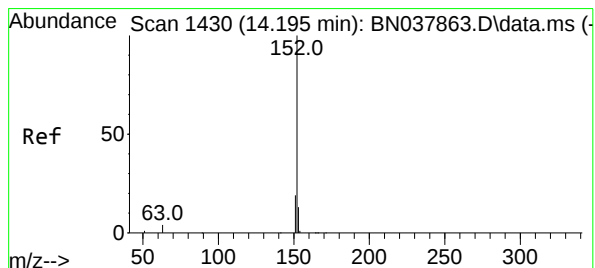
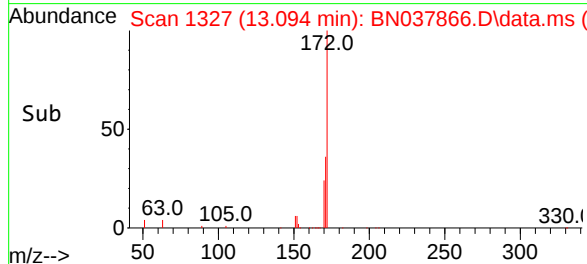
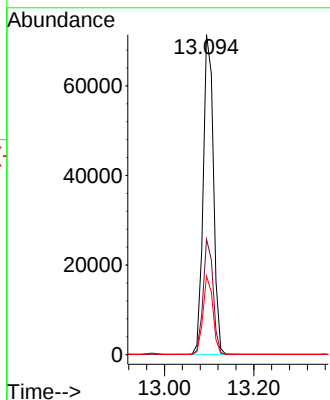
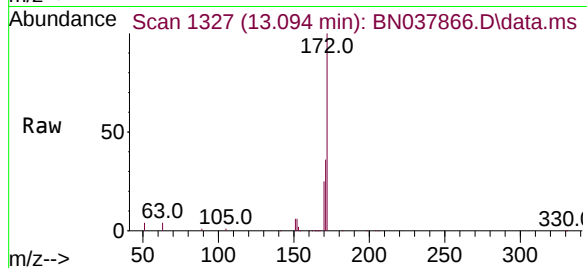




#15
2-Fluorobiphenyl
Concen: 3.223 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

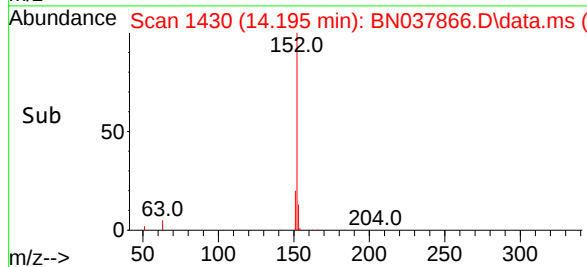
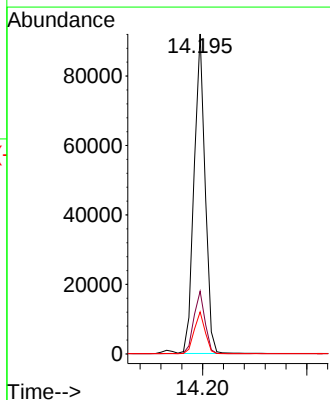
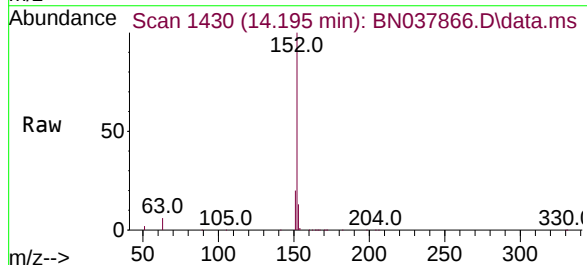
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

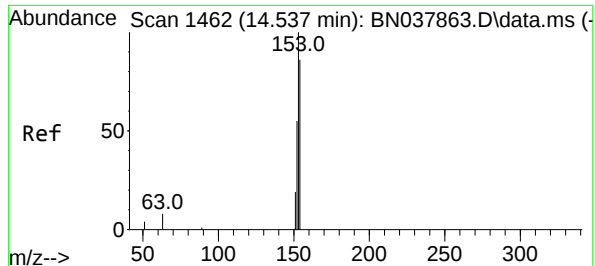
Tgt Ion:172 Resp: 113791
Ion Ratio Lower Upper
172 100
171 36.1 28.6 43.0
170 24.6 19.7 29.5



#16
Acenaphthylene
Concen: 3.437 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:152 Resp: 134565
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 3.392 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

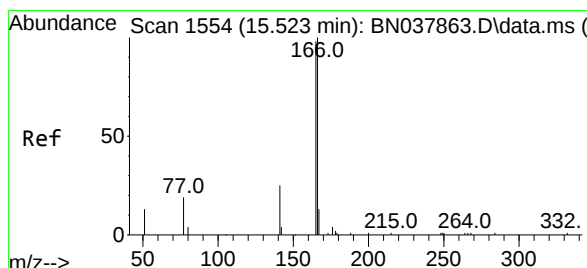
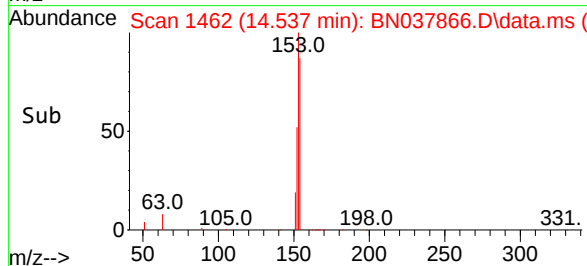
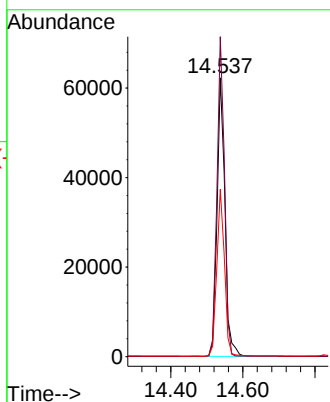
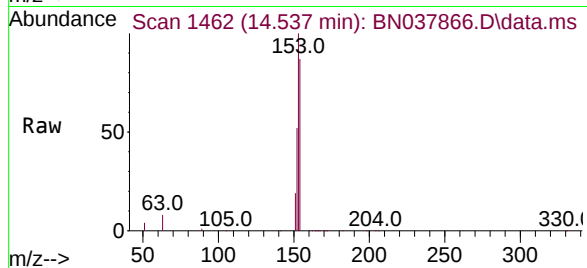
Tgt Ion:154 Resp: 94611

Ion Ratio Lower Upper

154 100

153 109.6 90.5 135.7

152 58.7 51.8 77.8



#18

Fluorene

Concen: 3.511 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

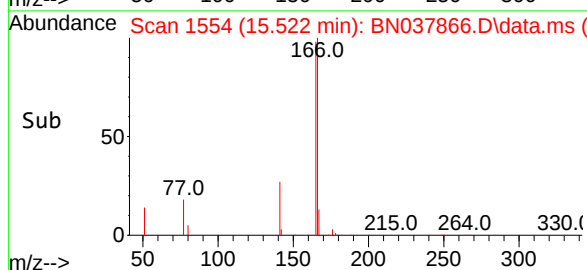
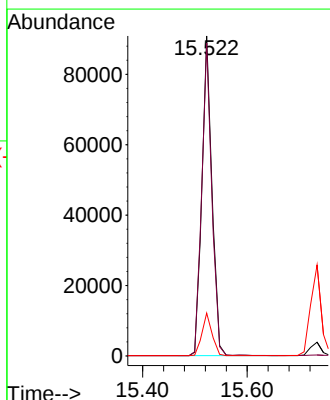
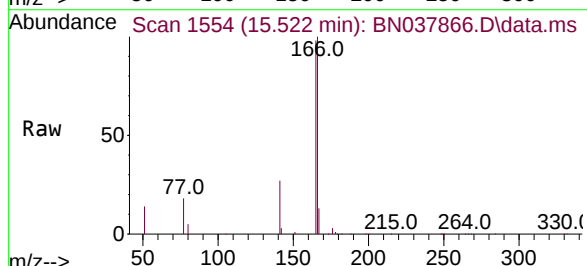
Tgt Ion:166 Resp: 118468

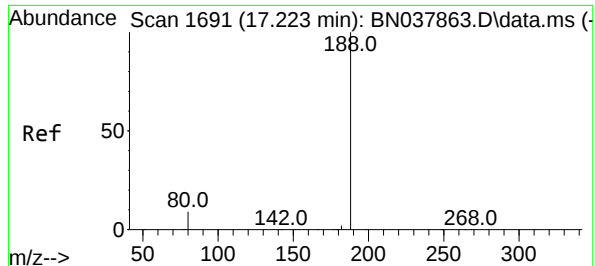
Ion Ratio Lower Upper

166 100

165 98.2 79.0 118.4

167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

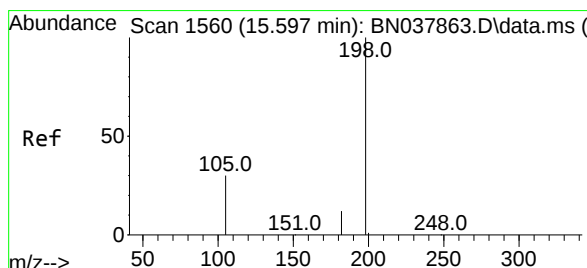
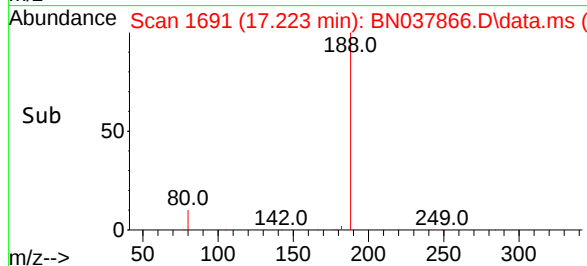
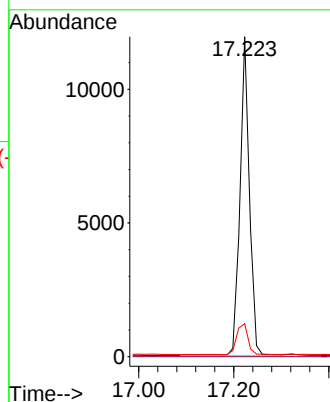
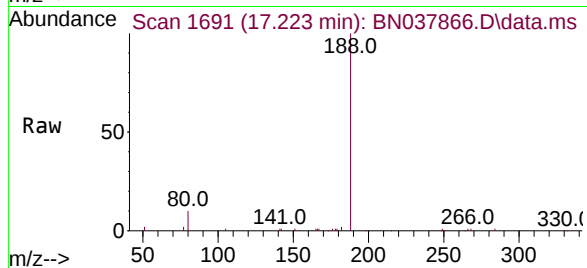
Tgt Ion:188 Resp: 16225

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.211 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

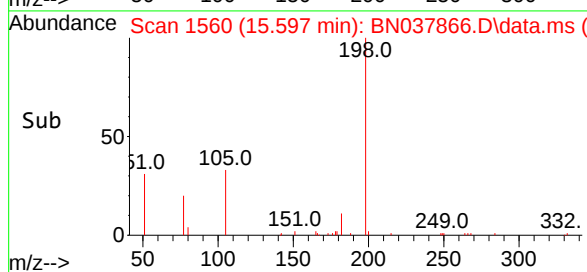
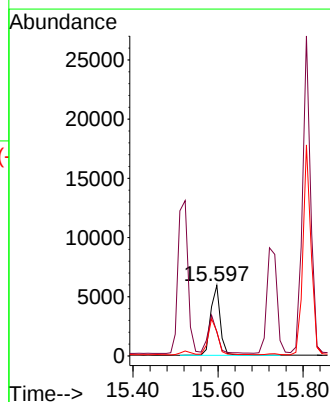
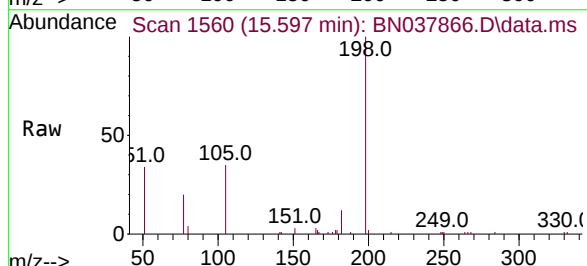
Tgt Ion:198 Resp: 9172

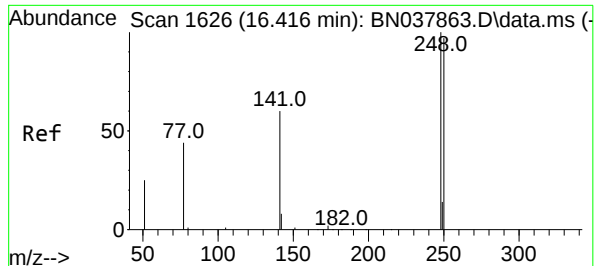
Ion Ratio Lower Upper

198 100

51 33.8 59.1 88.7#

105 34.5 41.3 61.9#

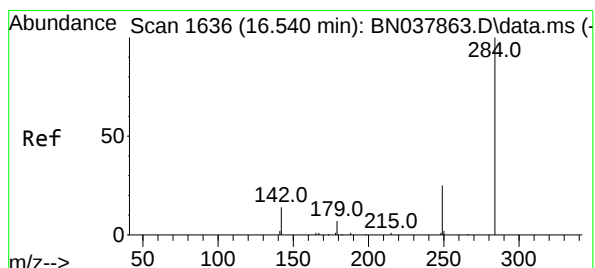
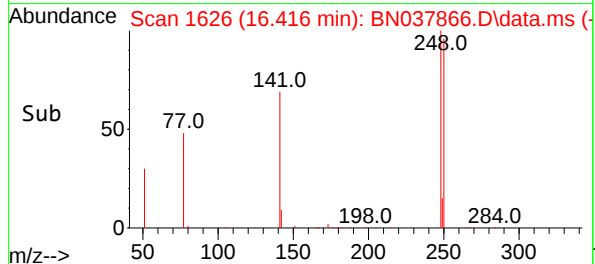
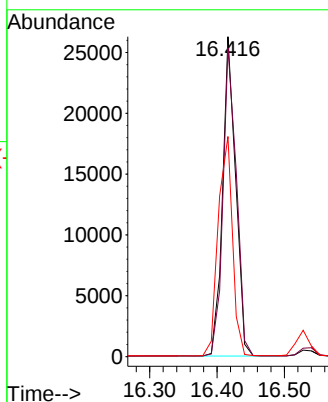
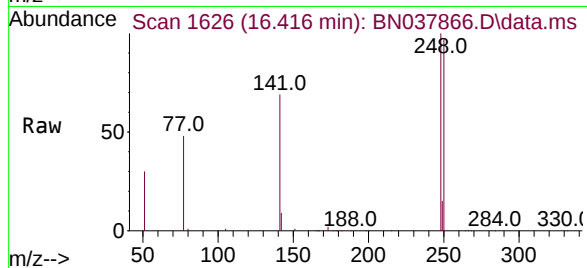




#21
4-Bromophenyl-phenylether
Concen: 3.370 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

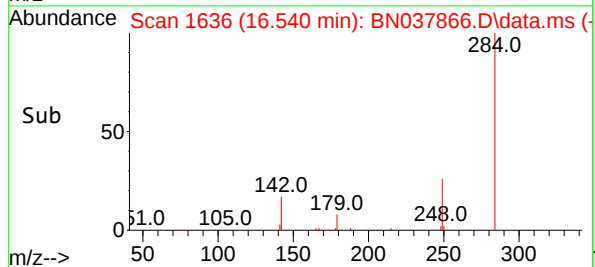
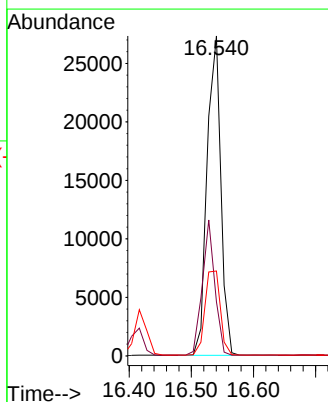
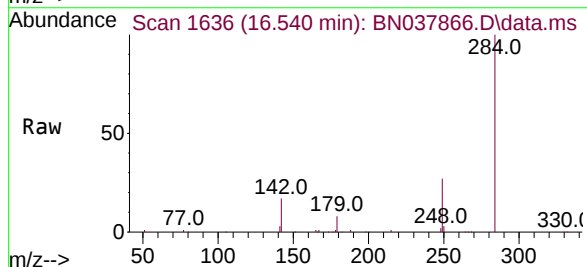
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

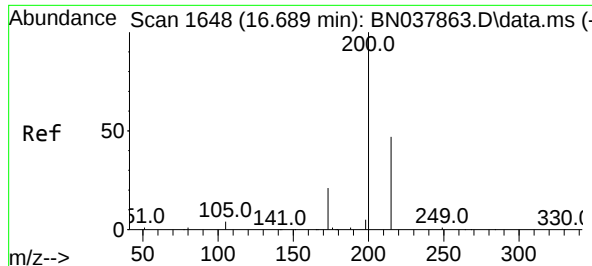
Tgt Ion:248 Resp: 35637
Ion Ratio Lower Upper
248 100
250 96.5 77.6 116.4
141 68.8 48.8 73.2



#22
Hexachlorobenzene
Concen: 3.269 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:284 Resp: 41902
Ion Ratio Lower Upper
284 100
142 38.5 30.9 46.3
249 29.5 23.9 35.9

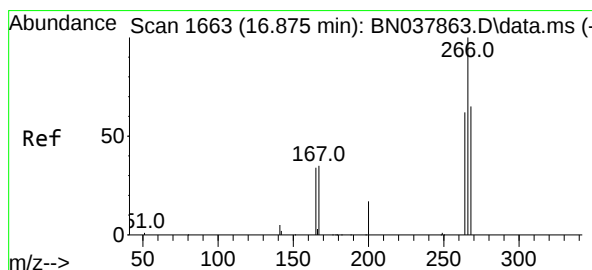
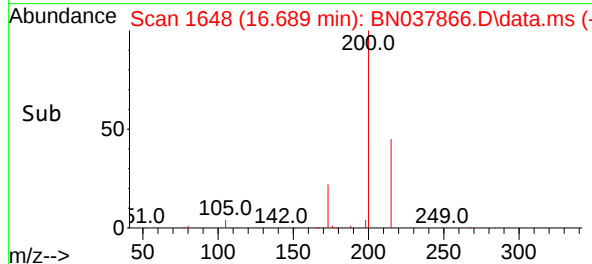
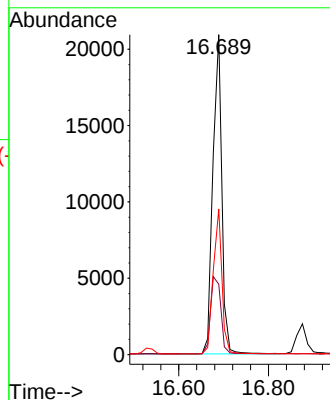
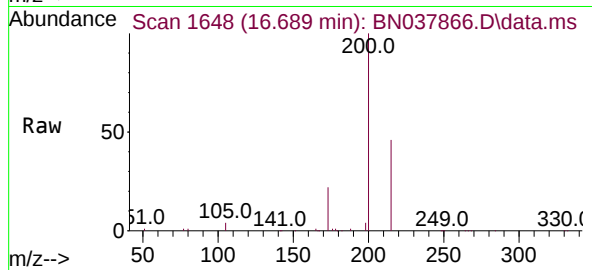




#23
Atrazine
Concen: 3.616 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

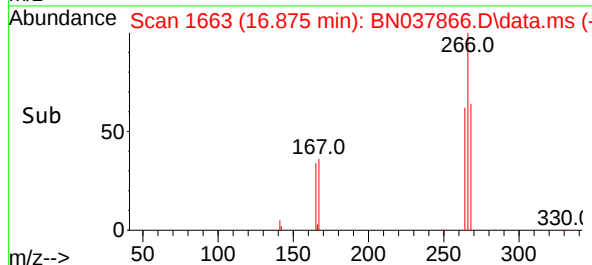
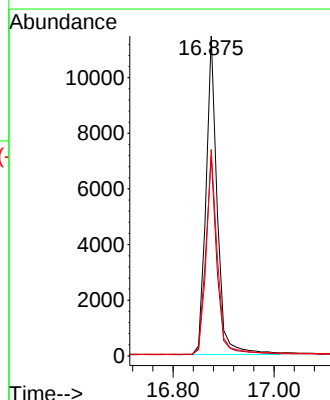
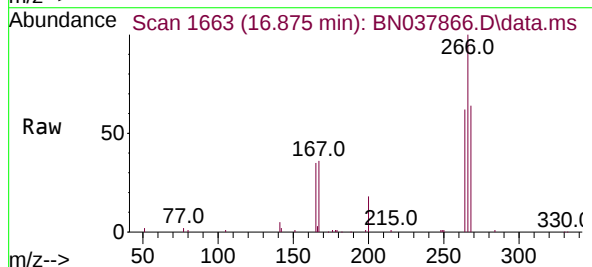
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

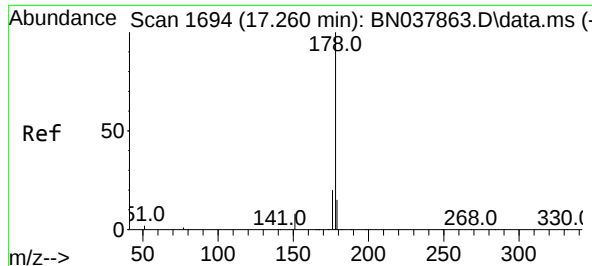
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.0	18.3	27.5
215	45.5	38.6	58.0



#24
Pentachlorophenol
Concen: 4.011 ng
RT: 16.875 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.9	76.3
268	64.0	54.3	81.5





#25

Phenanthrene

Concen: 3.352 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

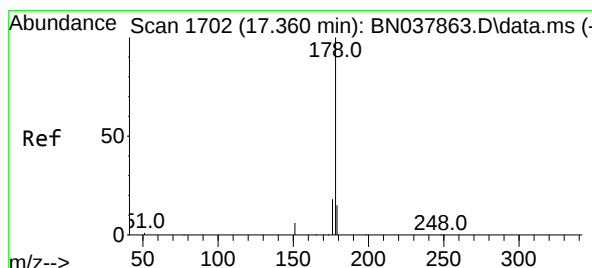
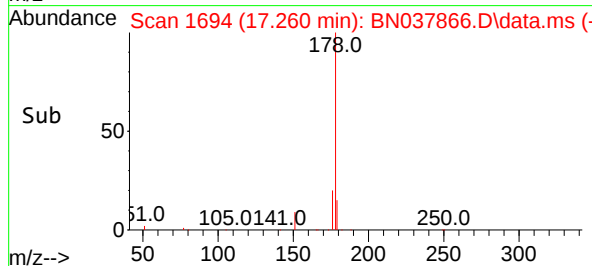
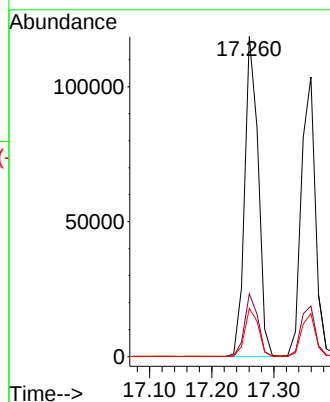
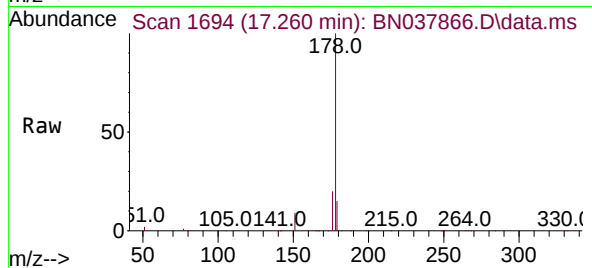
Tgt Ion:178 Resp: 178985

Ion Ratio Lower Upper

178 100

176 19.2 15.7 23.5

179 15.1 12.3 18.5



#26

Anthracene

Concen: 3.573 ng

RT: 17.360 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

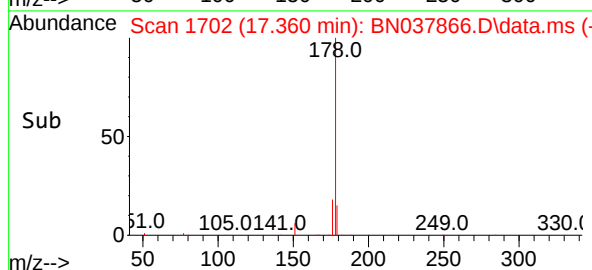
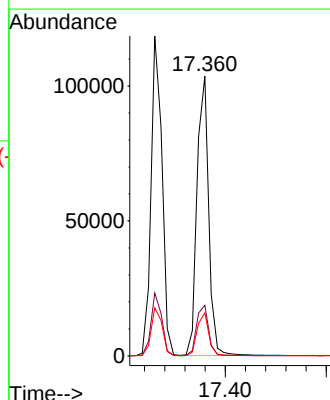
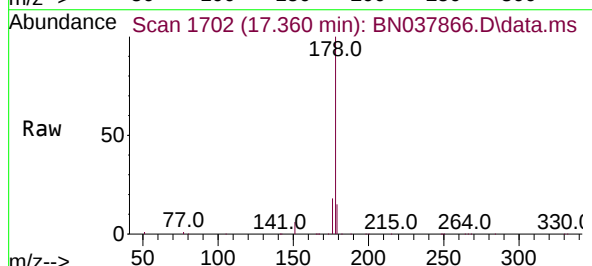
Tgt Ion:178 Resp: 165527

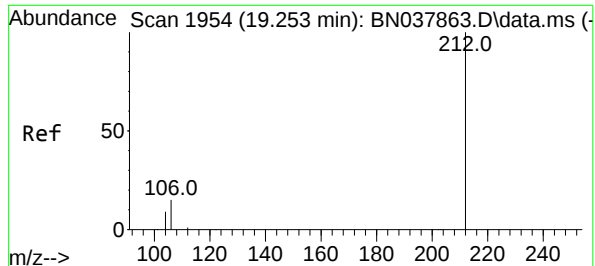
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.451 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

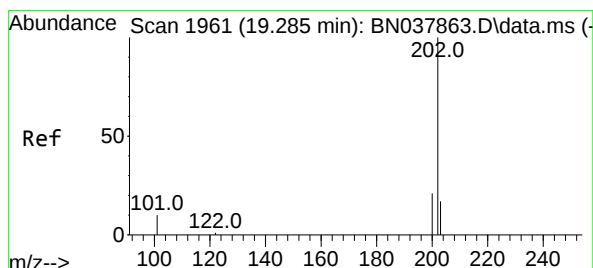
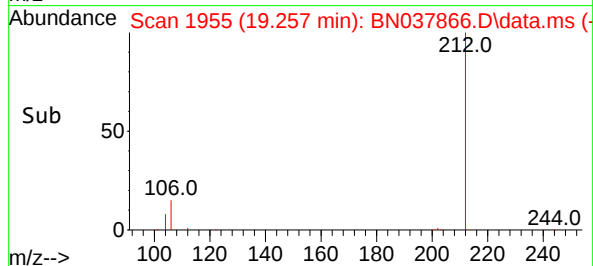
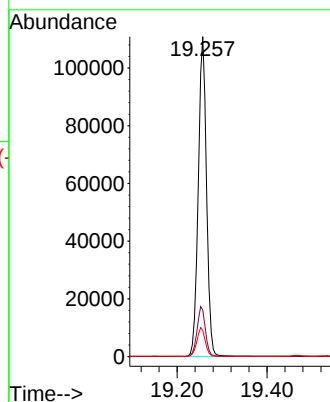
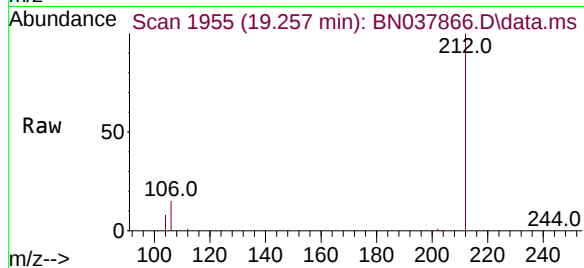
Tgt Ion:212 Resp: 140845

Ion Ratio Lower Upper

212 100

106 15.7 12.6 19.0

104 9.0 7.4 11.0



#28

Fluoranthene

Concen: 3.570 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

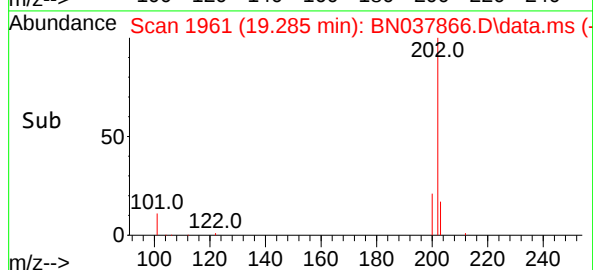
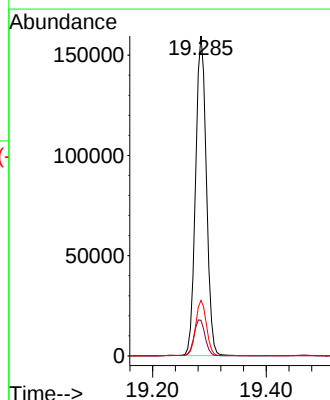
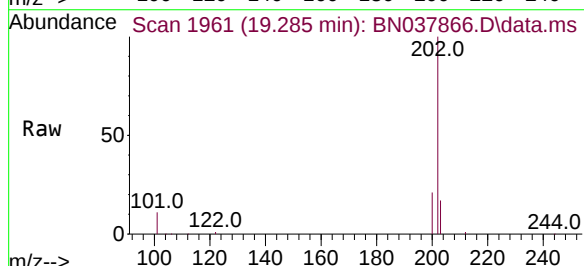
Tgt Ion:202 Resp: 209920

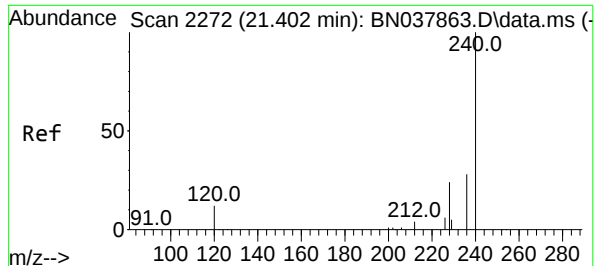
Ion Ratio Lower Upper

202 100

101 11.7 9.3 13.9

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

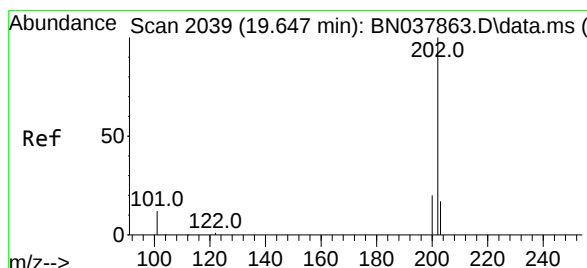
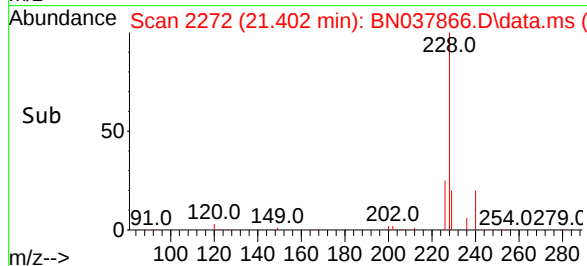
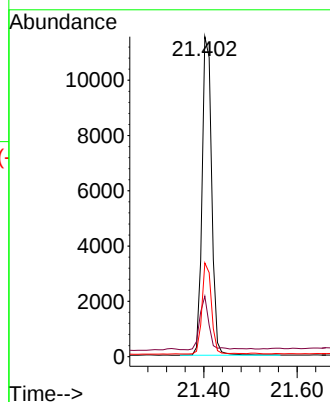
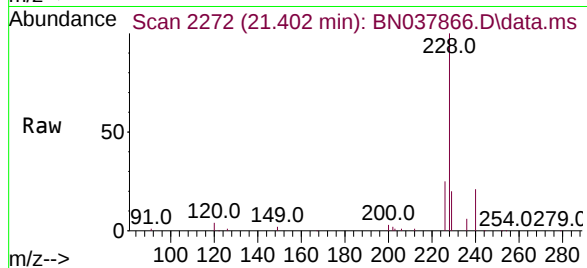
Tgt Ion:240 Resp: 16309

Ion Ratio Lower Upper

240 100

120 18.9 11.4 17.2#

236 29.3 23.0 34.6



#30

Pyrene

Concen: 3.232 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

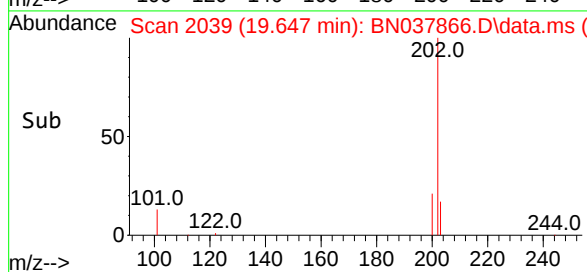
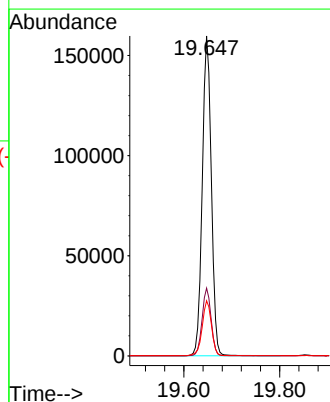
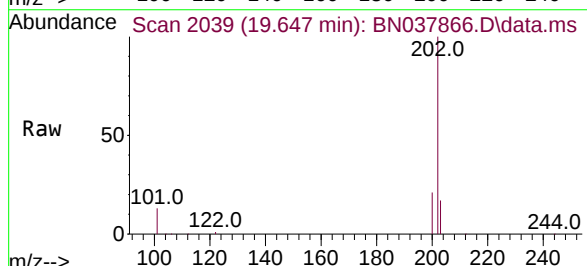
Tgt Ion:202 Resp: 208135

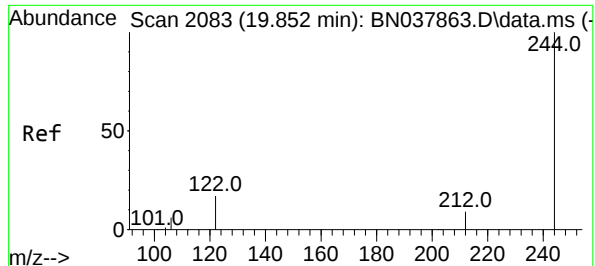
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4

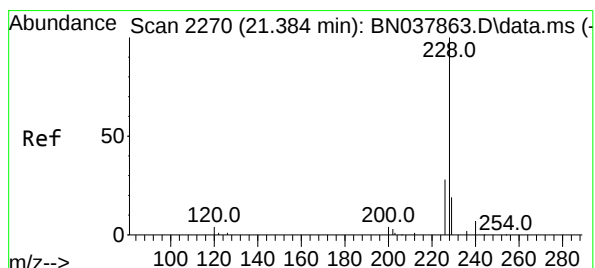
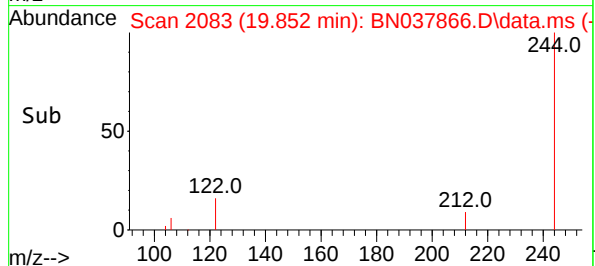
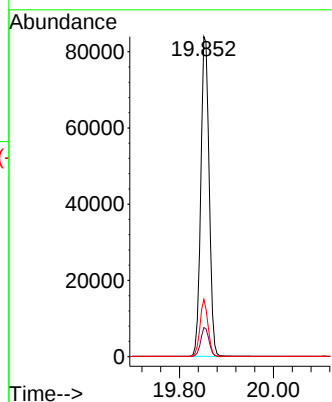
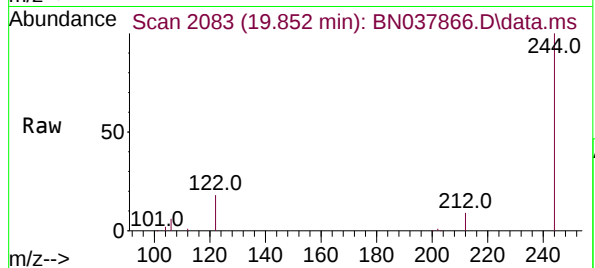




#31
Terphenyl-d14
Concen: 3.250 ng
RT: 19.852 min Scan# 2083
Delta R.T. -0.000 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

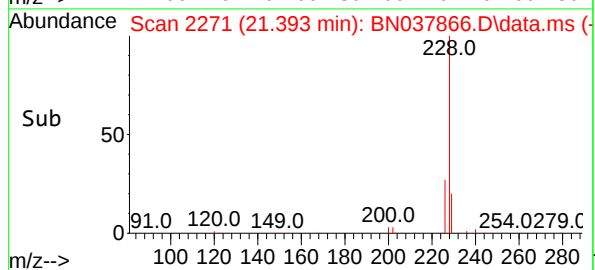
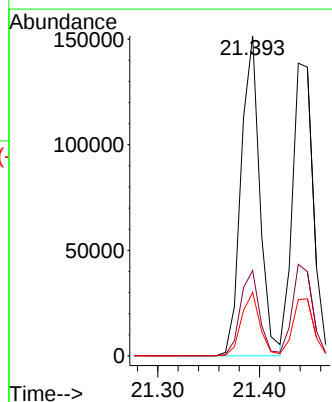
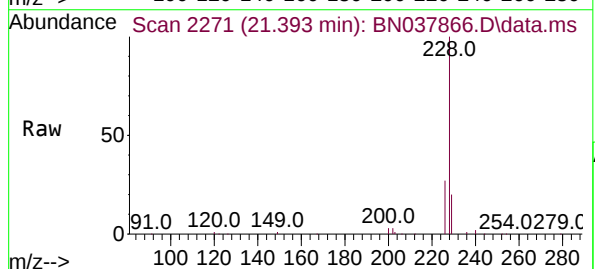
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

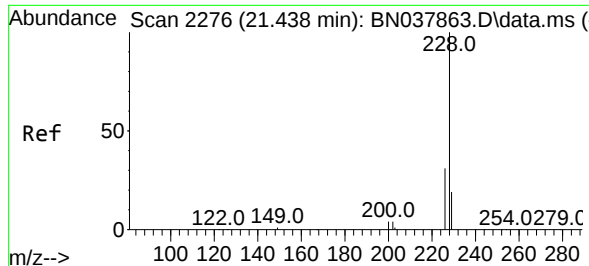
Tgt Ion:244 Resp: 105582
Ion Ratio Lower Upper
244 100
212 9.1 7.6 11.4
122 17.9 13.9 20.9



#32
Benzo(a)anthracene
Concen: 3.394 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037866.D
Acq: 23 Sep 2025 15:15

Tgt Ion:228 Resp: 193464
Ion Ratio Lower Upper
228 100
226 26.7 22.6 33.8
229 19.8 15.6 23.4





#33

Chrysene

Concen: 3.201 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

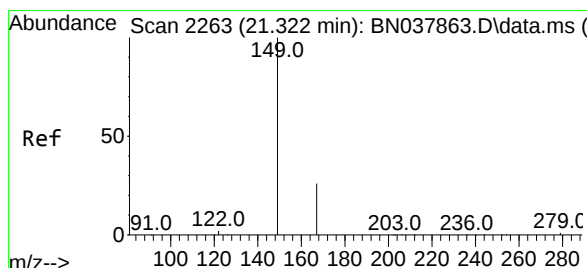
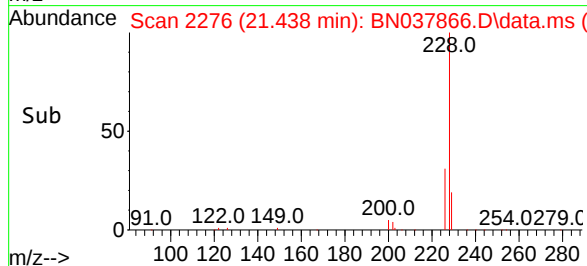
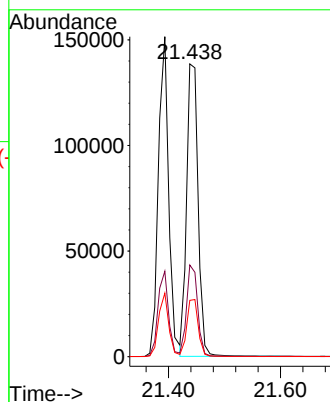
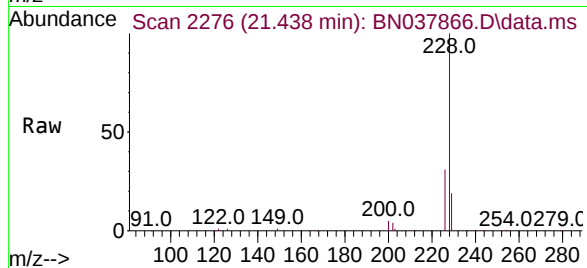
Tgt Ion:228 Resp: 197283

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.2 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.291 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

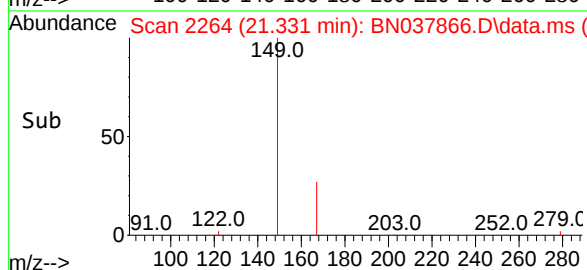
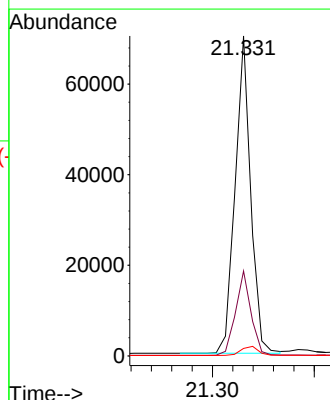
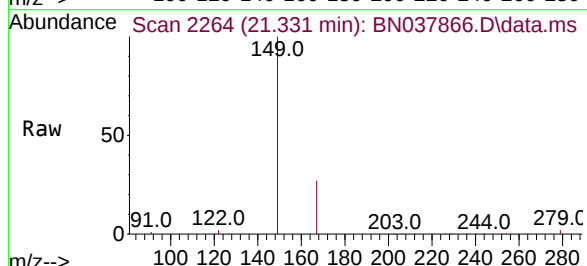
Tgt Ion:149 Resp: 74195

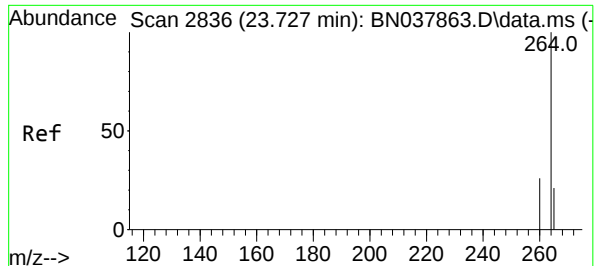
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

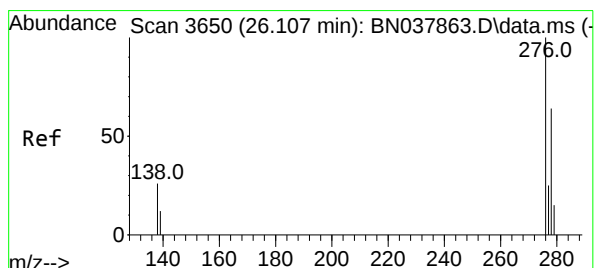
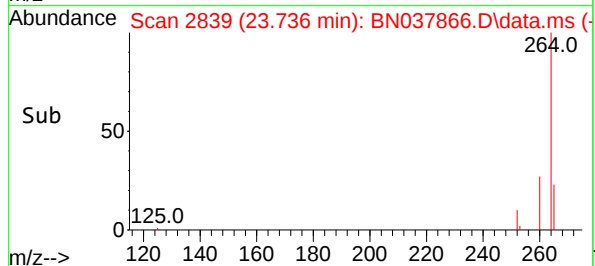
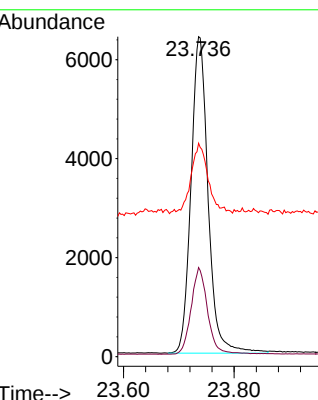
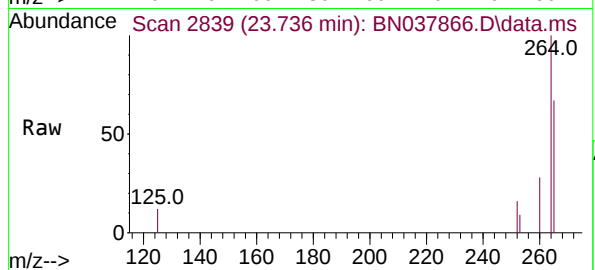
Tgt Ion:264 Resp: 13684

Ion Ratio Lower Upper

264 100

260 27.8 21.5 32.3

265 66.7 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.494 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.012 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

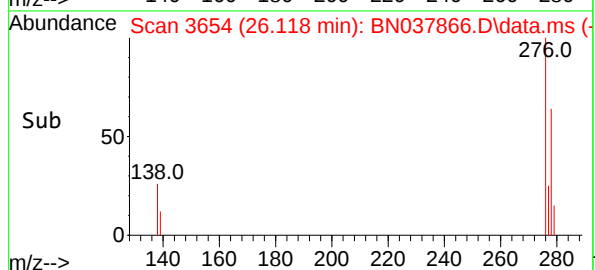
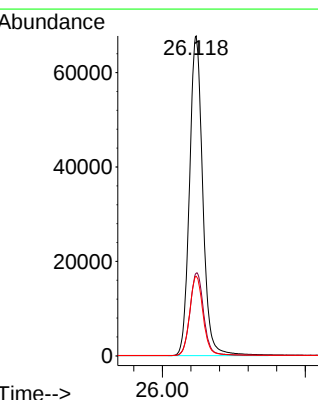
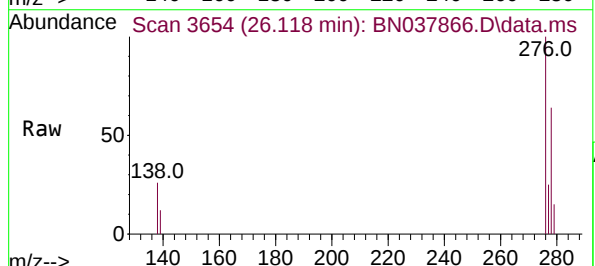
Tgt Ion:276 Resp: 218487

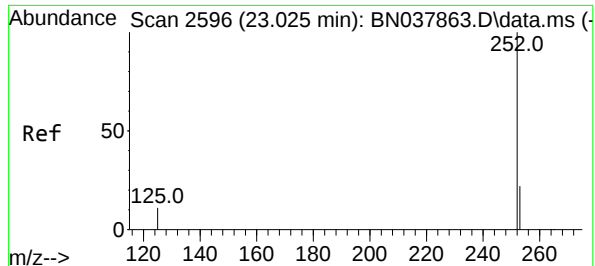
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 3.428 ng

RT: 23.031 min Scan# 2596

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

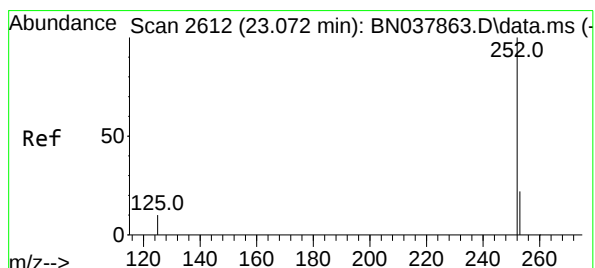
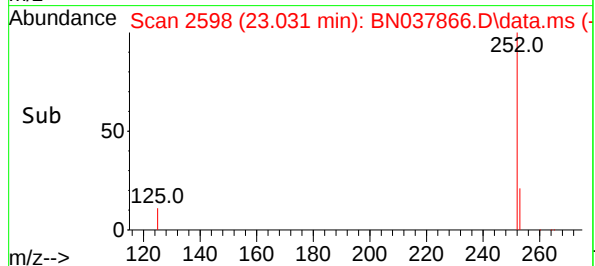
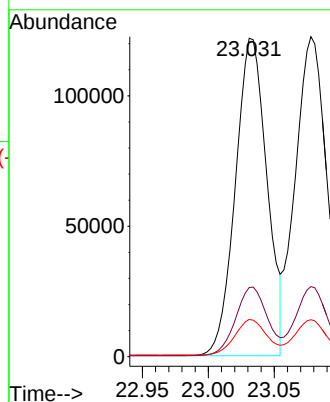
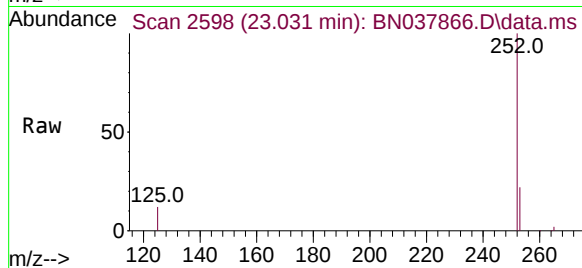
Tgt Ion:252 Resp: 202282

Ion Ratio Lower Upper

252 100

253 21.7 19.4 29.0

125 11.7 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 3.534 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

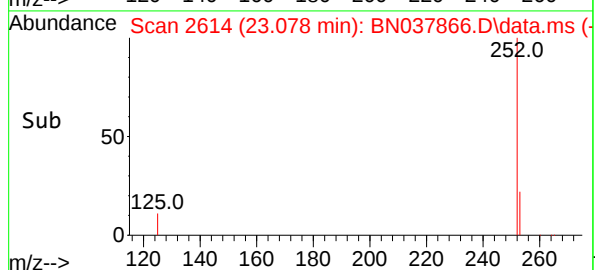
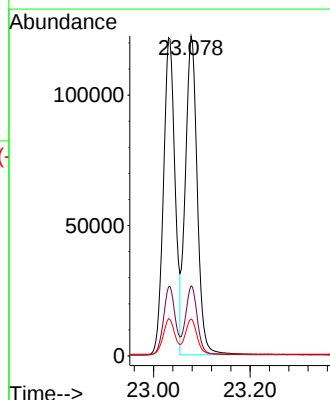
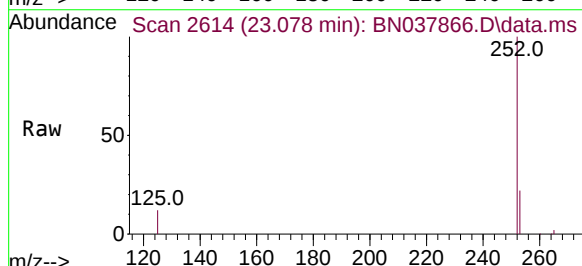
Tgt Ion:252 Resp: 209819

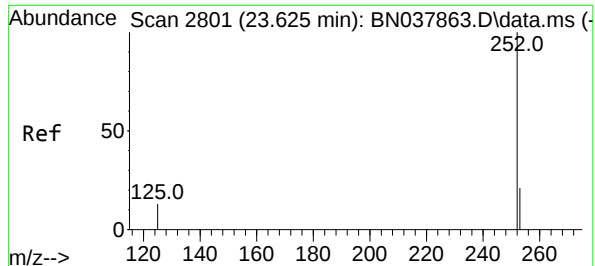
Ion Ratio Lower Upper

252 100

253 21.9 19.5 29.3

125 11.5 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 3.499 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037866.D

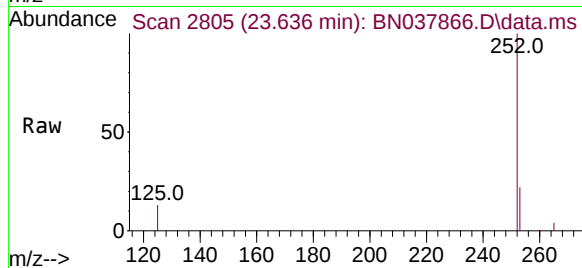
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



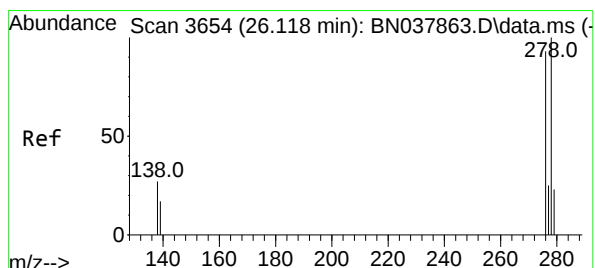
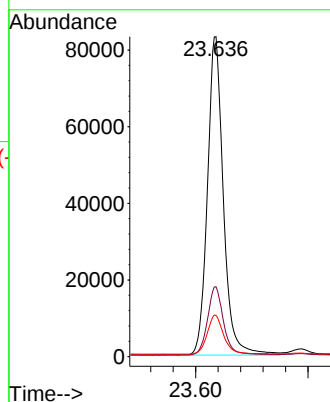
Tgt Ion:252 Resp: 163321

Ion Ratio Lower Upper

252 100

253 21.8 20.6 30.8

125 12.9 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.558 ng

RT: 26.133 min Scan# 3659

Delta R.T. 0.015 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

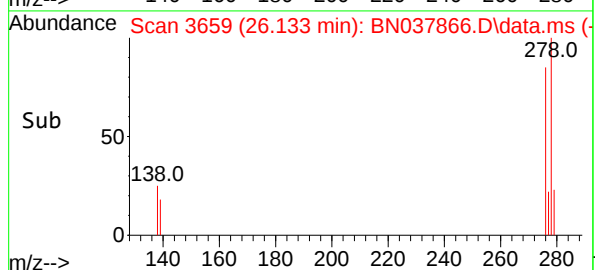
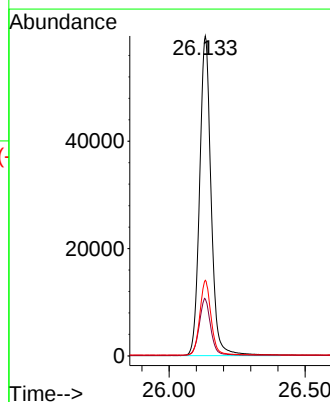
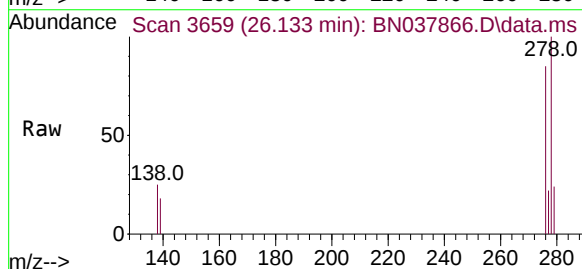
Tgt Ion:278 Resp: 173724

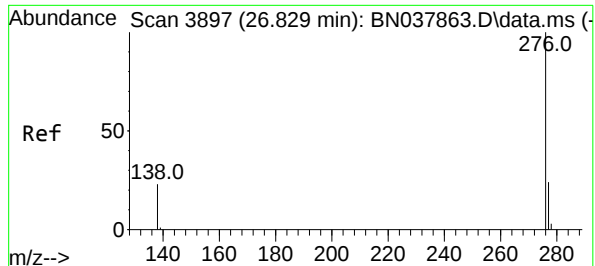
Ion Ratio Lower Upper

278 100

139 17.8 15.4 23.2

279 23.6 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 3.443 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037866.D

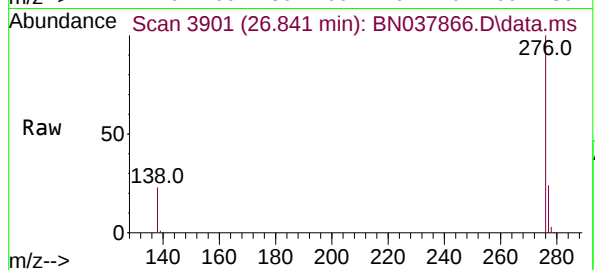
Acq: 23 Sep 2025 15:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



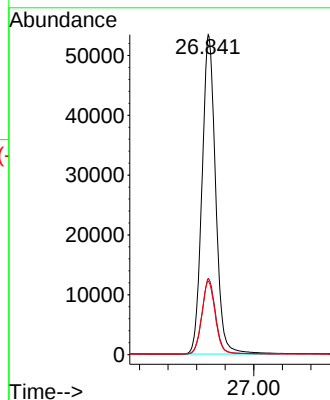
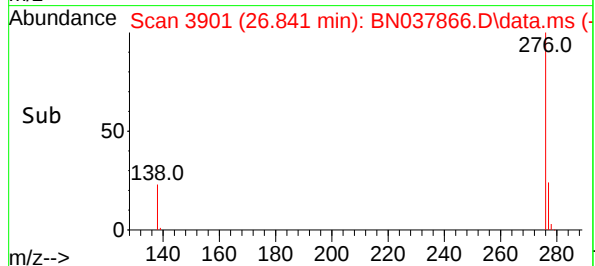
Tgt Ion:276 Resp: 176617

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 23.0 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037867.D
 Acq On : 23 Sep 2025 15:51
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 23 16:17:53 2025
 Response via : Initial Calibration

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

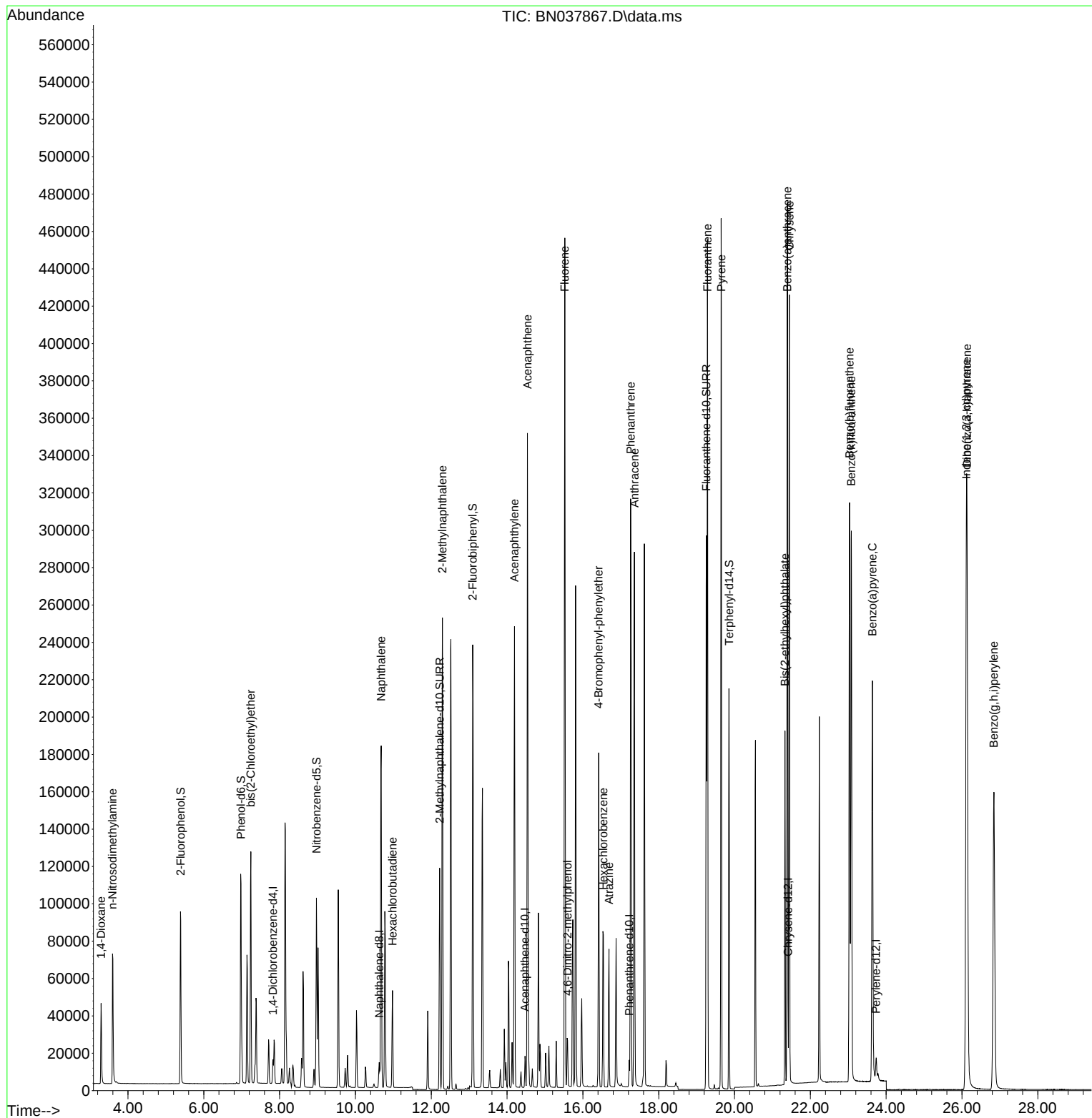
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	6080	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	17301	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	9570	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	17948	0.400	ng	0.00
29) Chrysene-d12	21.411	240	18531	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	15649	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	75850	5.467	ng	0.00
5) Phenol-d6	6.980	99	102802	5.639	ng	0.00
8) Nitrobenzene-d5	8.971	82	73146	5.543	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	154332	6.422	ng	0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
15) 2-Fluorobiphenyl	13.094	172	210748	5.379	ng	0.00
27) Fluoranthene-d10	19.257	212	307332	6.807	ng	0.00
31) Terphenyl-d14	19.856	244	206917	5.606	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.290	88	28576	4.630	ng	98
3) n-Nitrosodimethylamine	3.593	42	41574	5.063	ng	# 92
6) bis(2-Chloroethyl)ether	7.240	93	86881	5.134	ng	99
9) Naphthalene	10.680	128	250883	5.264	ng	98
10) Hexachlorobutadiene	10.979	225	40670	5.003	ng	# 100
12) 2-Methylnaphthalene	12.293	142	173335	5.567	ng	99
16) Acenaphthylene	14.195	152	250496	5.765	ng	100
17) Acenaphthene	14.537	154	171955	5.554	ng	94
18) Fluorene	15.522	166	209070	5.583	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	18771	4.997	ng	# 59
21) 4-Bromophenyl-phenylether	16.416	248	65230	5.577	ng	92
22) Hexachlorobenzene	16.540	284	74475	5.252	ng	99
23) Atrazine	16.689	200	55972	6.284	ng	96
25) Phenanthrene	17.260	178	325691	5.514	ng	99
26) Anthracene	17.359	178	305295	5.958	ng	100
28) Fluoranthene	19.285	202	384292	5.908	ng	99
30) Pyrene	19.647	202	388849	5.315	ng	100
32) Benzo(a)anthracene	21.393	228	362927	5.604	ng	98
33) Chrysene	21.447	228	363421	5.189	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	156492	6.109	ng	98
36) Indeno(1,2,3-cd)pyrene	26.115	276	422337	5.906	ng	99
37) Benzo(b)fluoranthene	23.034	252	387512	5.742	ng	# 93
38) Benzo(k)fluoranthene	23.081	252	376732	5.548	ng	# 92
39) Benzo(a)pyrene	23.636	252	314913	5.900	ng	# 88
40) Dibenzo(a,h)anthracene	26.133	278	333427	5.971	ng	96
41) Benzo(g,h,i)perylene	26.840	276	346868	5.913	ng	96

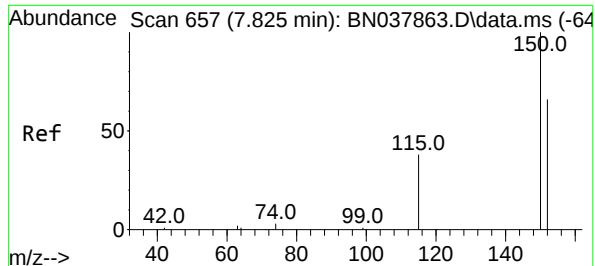
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037867.D
Acq On : 23 Sep 2025 15:51
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:17:53 2025
Response via : Initial Calibration

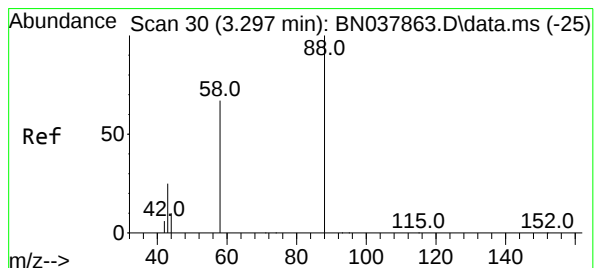
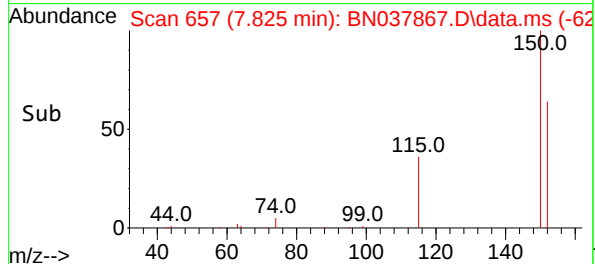
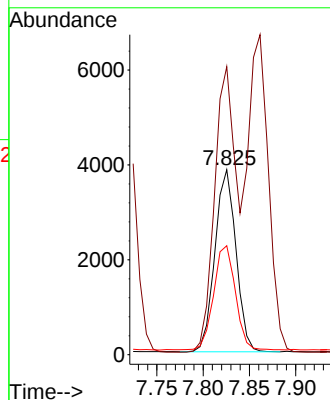
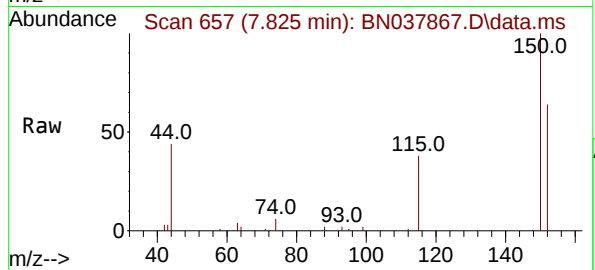




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

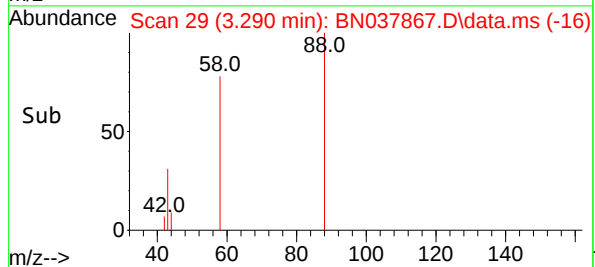
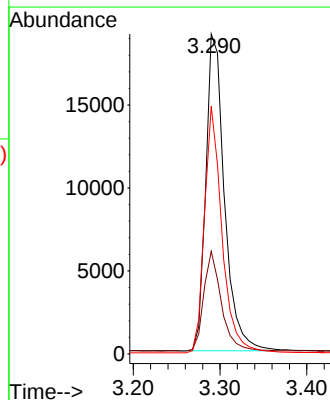
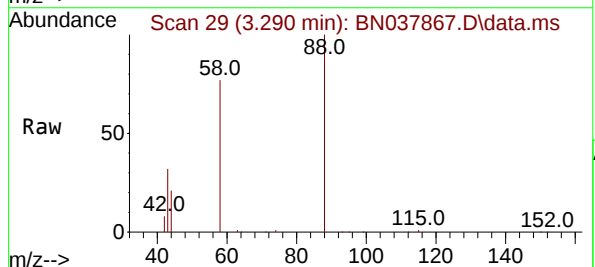
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

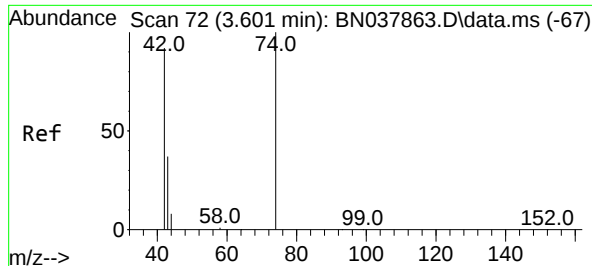
Tgt Ion:152 Resp: 6080
Ion Ratio Lower Upper
152 100
150 155.7 121.0 181.4
115 58.9 47.4 71.0



#2
1,4-Dioxane
Concen: 4.630 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 88 Resp: 28576
Ion Ratio Lower Upper
88 100
43 29.8 26.6 39.8
58 73.3 58.9 88.3

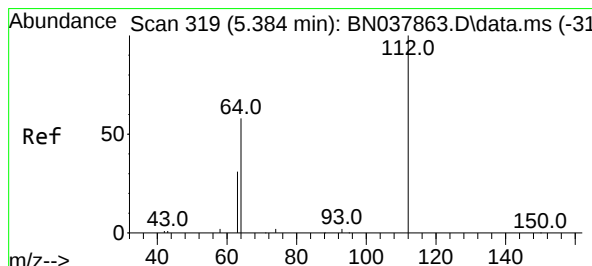
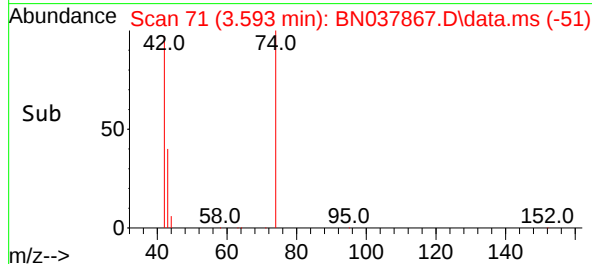
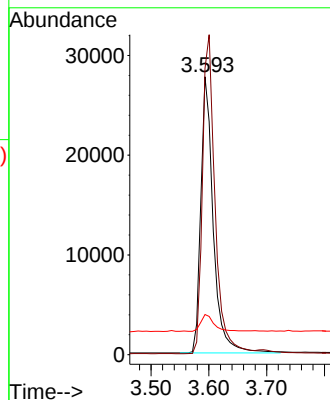
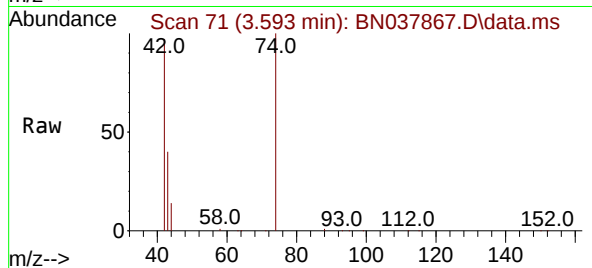




#3
n-Nitrosodimethylamine
Concen: 5.063 ng
RT: 3.593 min Scan# 71
Delta R.T. -0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

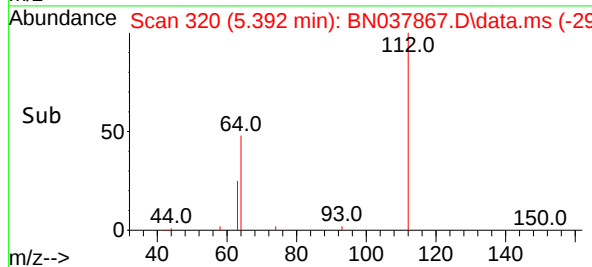
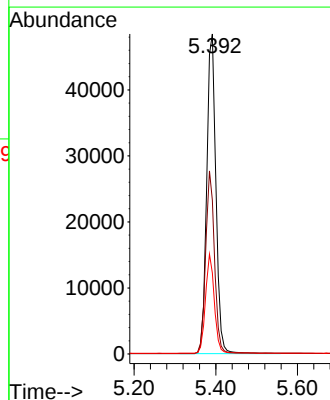
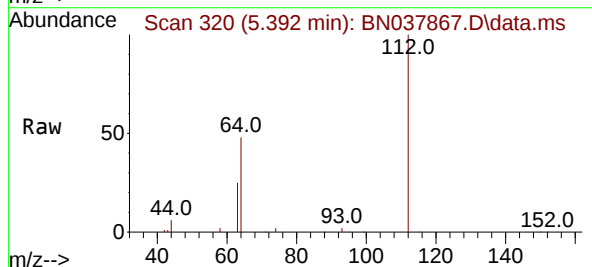
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

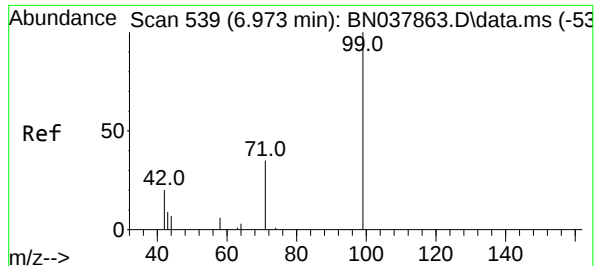
Tgt Ion: 42 Resp: 41574
Ion Ratio Lower Upper
42 100
74 117.0 93.4 140.0
44 6.5 22.2 33.4#



#4
2-Fluorophenol
Concen: 5.467 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 112 Resp: 75850
Ion Ratio Lower Upper
112 100
64 55.3 44.6 66.8
63 29.7 24.9 37.3





#5

Phenol-d6

Concen: 5.639 ng

RT: 6.980 min Scan# 54

Delta R.T. 0.007 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

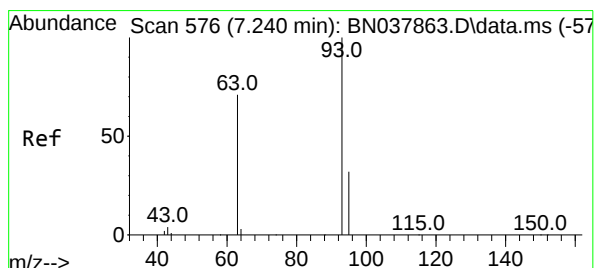
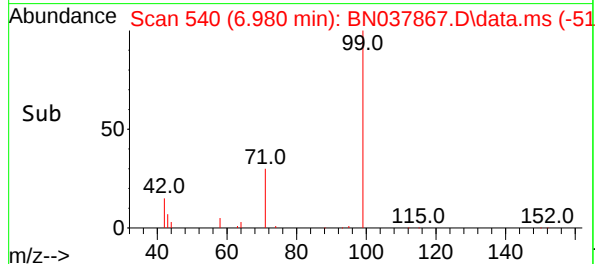
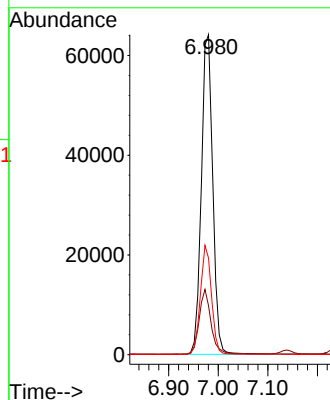
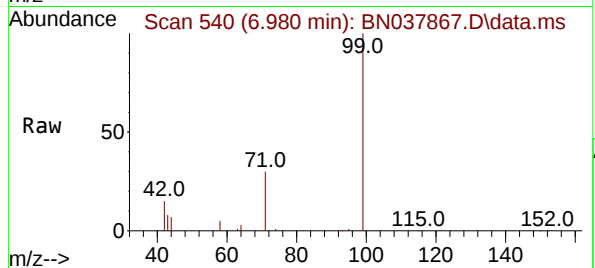
BNA_N

ClientSampleId :

SSTDICC5.0

Tgt Ion: 99 Resp: 102802

Ion	Ratio	Lower	Upper
99	100		
42	20.6	17.2	25.8
71	33.3	27.3	40.9



#6

bis(2-Chloroethyl)ether

Concen: 5.134 ng

RT: 7.240 min Scan# 576

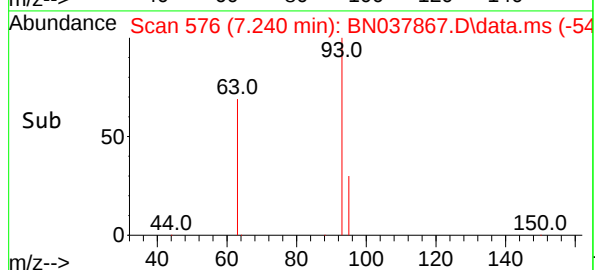
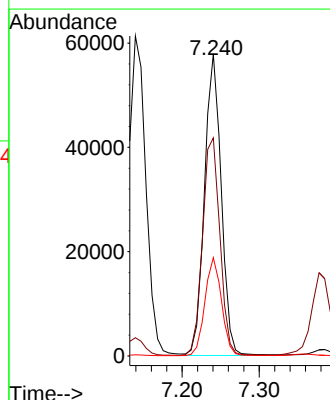
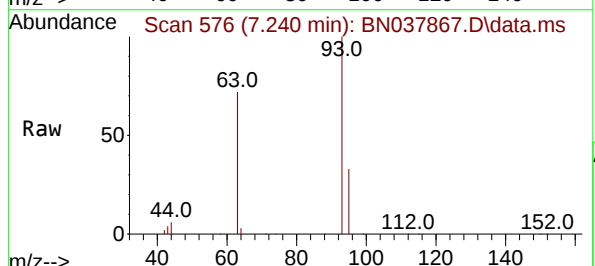
Delta R.T. -0.000 min

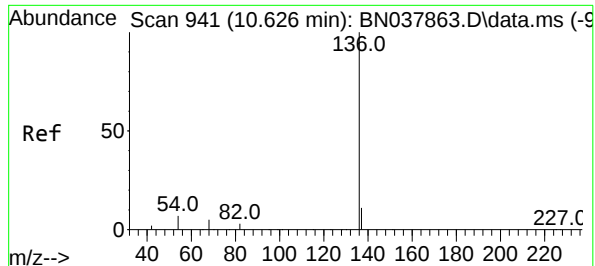
Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Tgt Ion: 93 Resp: 86881

Ion	Ratio	Lower	Upper
93	100		
63	74.6	60.1	90.1
95	32.2	25.4	38.2

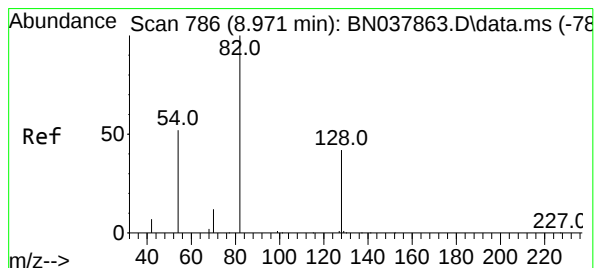
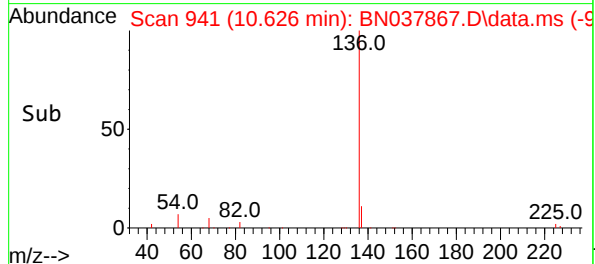
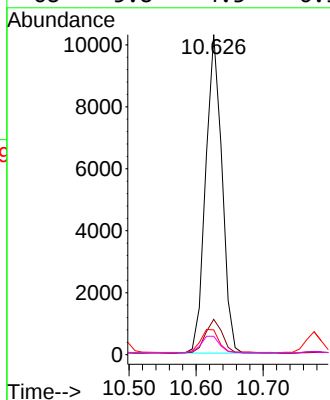
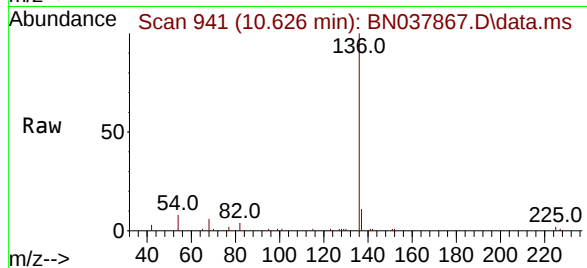




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

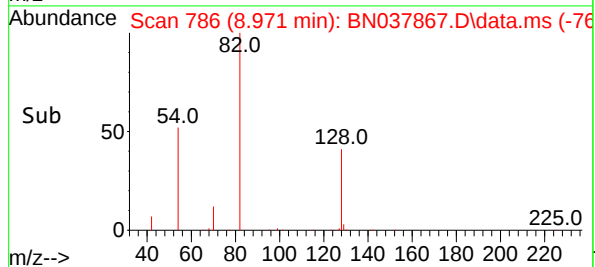
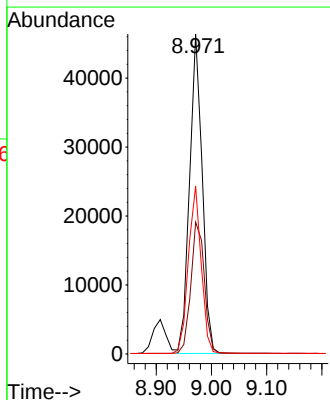
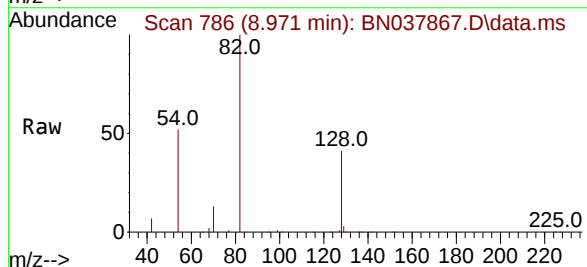
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

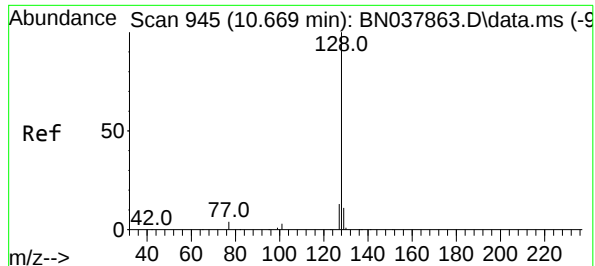
Tgt Ion:	136	Resp:	17301
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.8	5.8	8.8
68	5.8	4.3	6.5



#8
Nitrobenzene-d5
Concen: 5.543 ng
RT: 8.971 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:	82	Resp:	73146
Ion	Ratio	Lower	Upper
82	100		
128	41.2	34.8	52.2
54	52.4	42.2	63.2

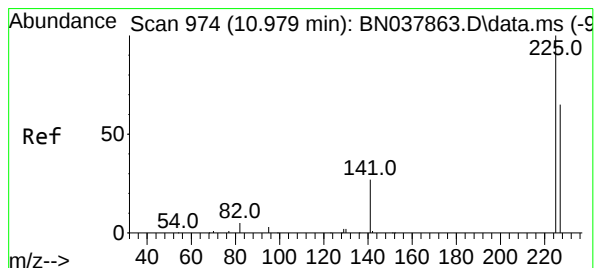
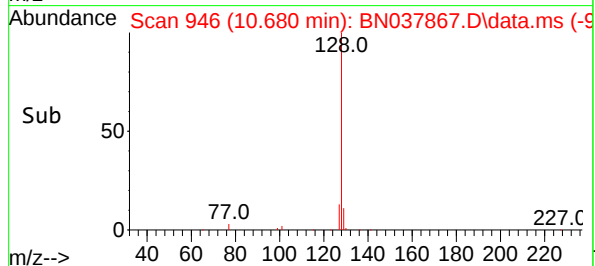
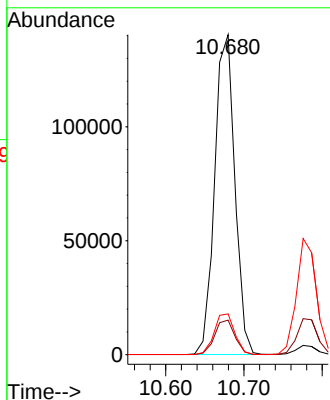
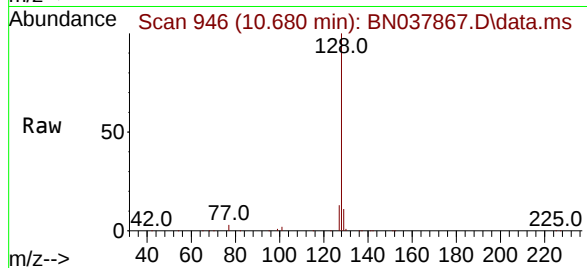




#9
Naphthalene
Concen: 5.264 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

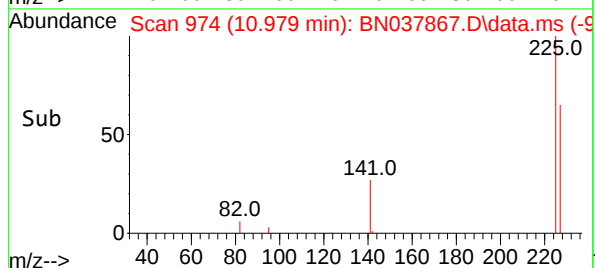
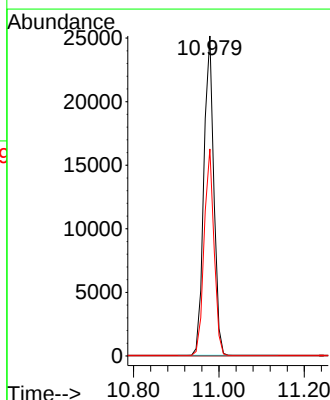
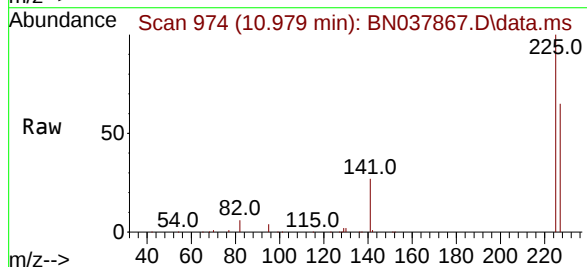
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

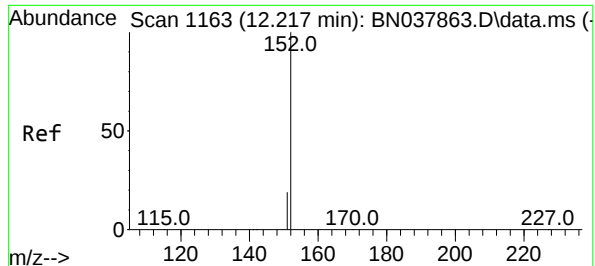
Tgt Ion:128 Resp: 250883
Ion Ratio Lower Upper
128 100
129 10.8 9.2 13.8
127 12.8 11.0 16.6



#10
Hexachlorobutadiene
Concen: 5.003 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:225 Resp: 40670
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 51.4 77.2

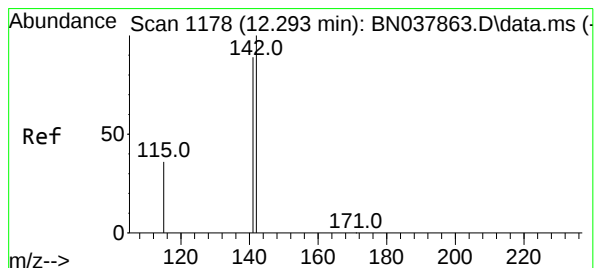
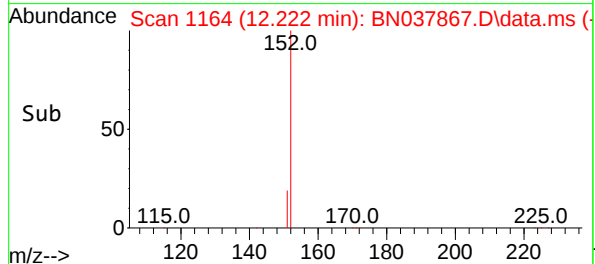
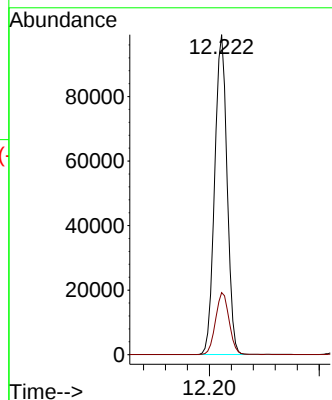
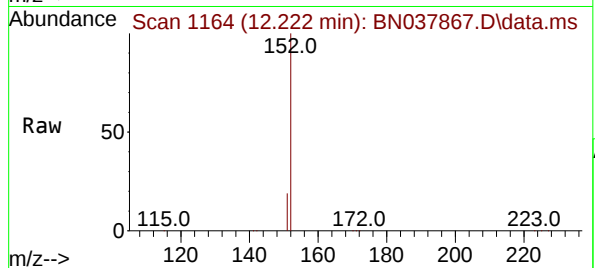




#11
2-Methylnaphthalene-d10
Concen: 6.422 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

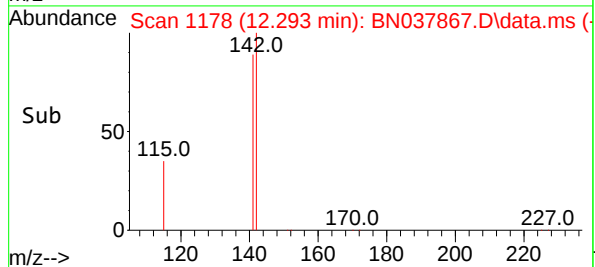
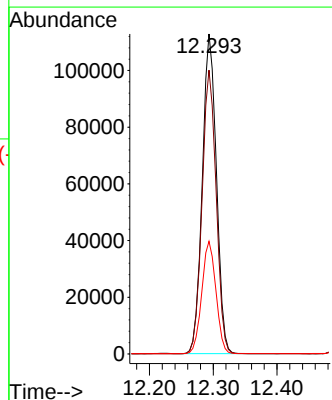
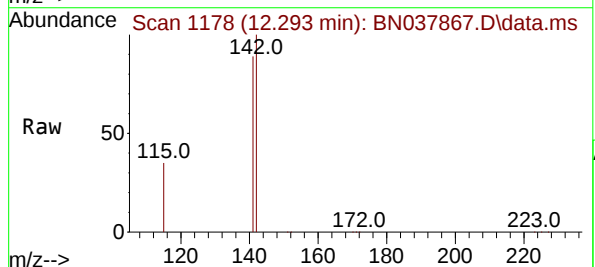
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

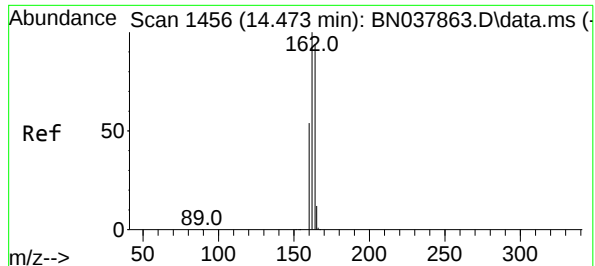
Tgt Ion:152 Resp: 154332
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.2



#12
2-Methylnaphthalene
Concen: 5.567 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

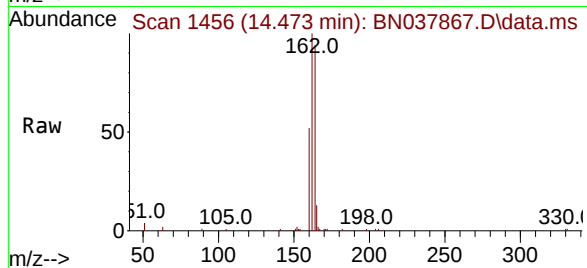
Tgt Ion:142 Resp: 173335
Ion Ratio Lower Upper
142 100
141 88.7 71.2 106.8
115 35.2 29.7 44.5



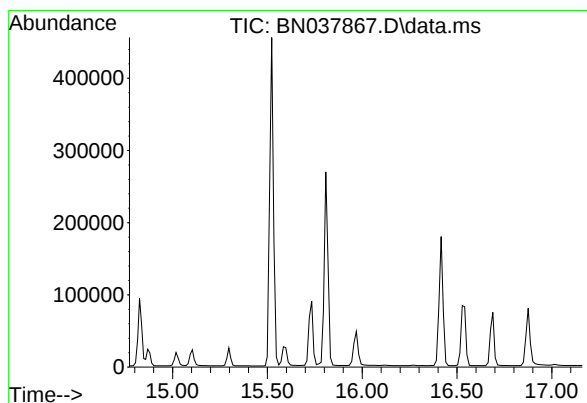
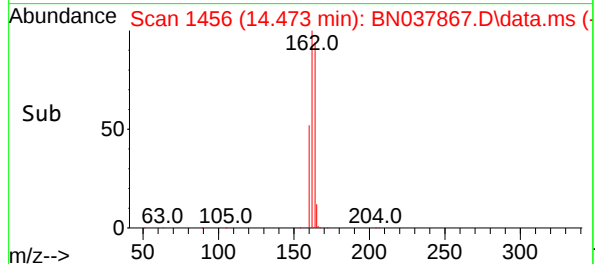
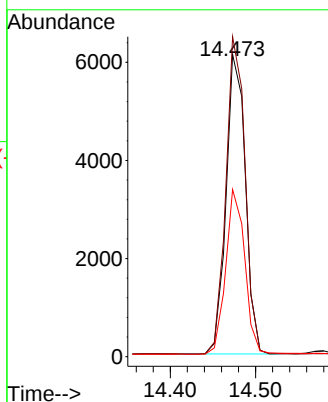


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0



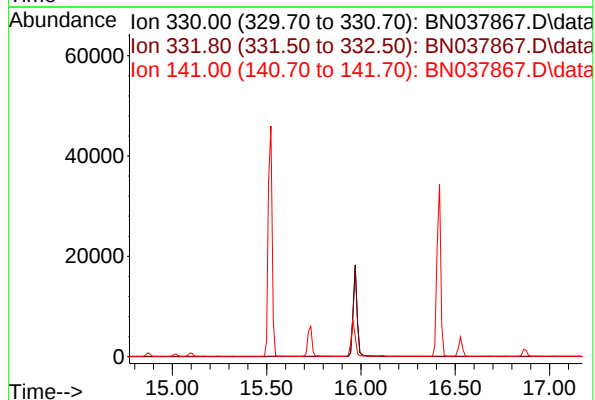
Tgt Ion:164 Resp: 9570
Ion Ratio Lower Upper
164 100
162 105.9 84.8 127.2
160 55.3 46.1 69.1

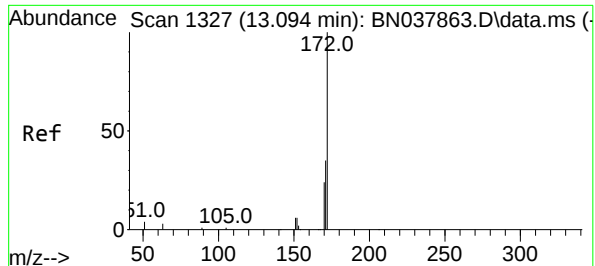


#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.97 min

Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion: 330
Sig Exp Ratio
330 100
332 96.5
141 46.5

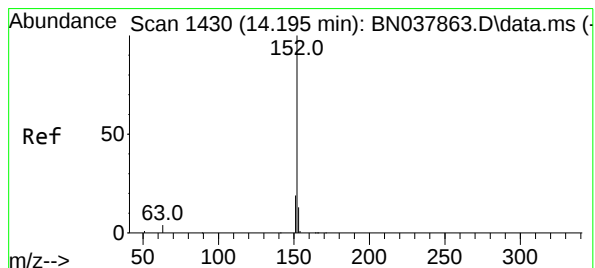
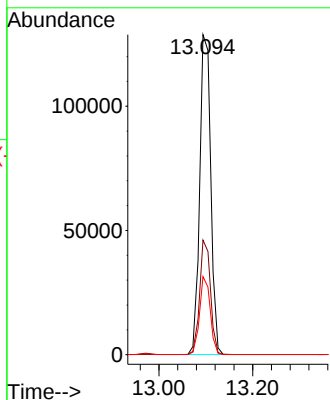
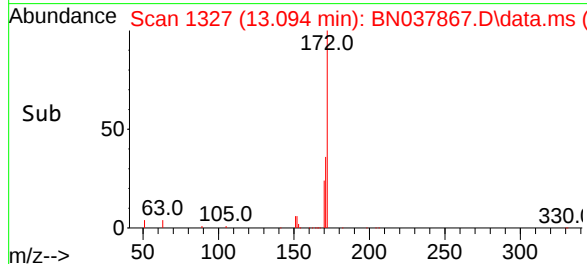
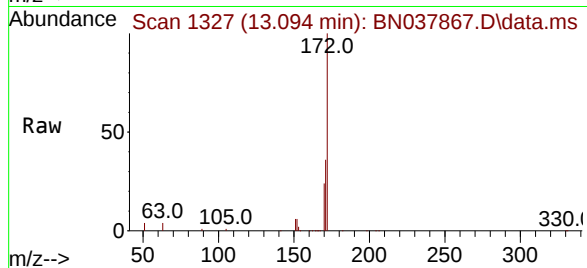




#15
2-Fluorobiphenyl
Concen: 5.379 ng
RT: 13.094 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

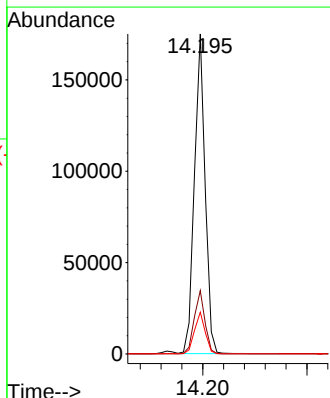
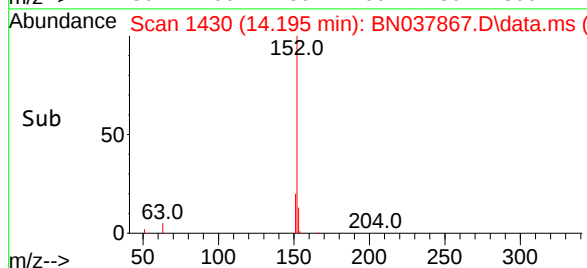
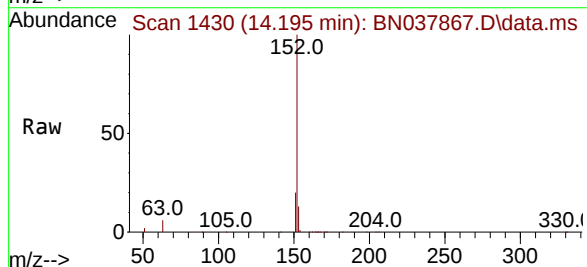
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

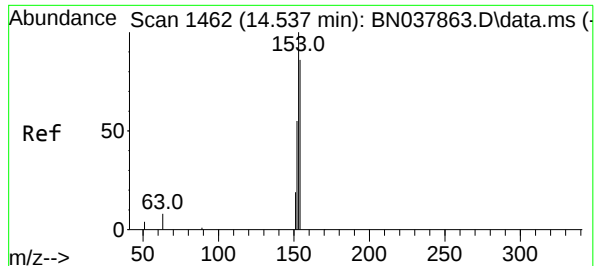
Tgt Ion:172 Resp: 210748
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 24.4 19.7 29.5



#16
Acenaphthylene
Concen: 5.765 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:152 Resp: 250496
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 13.1 10.5 15.7

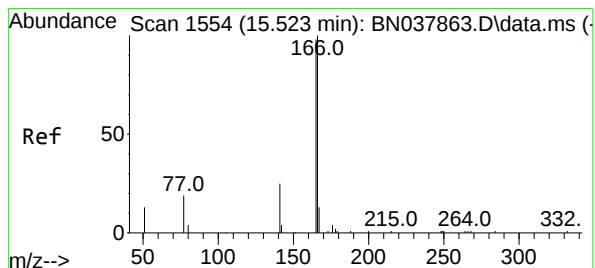
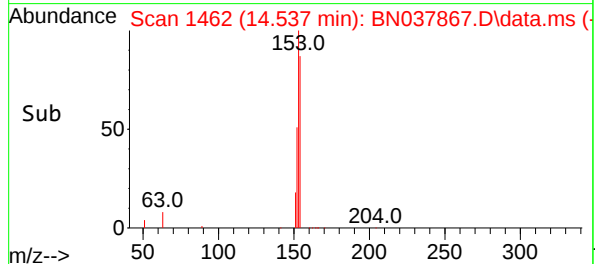
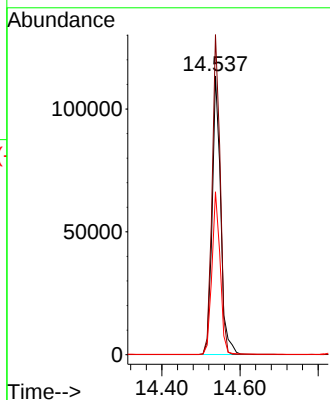
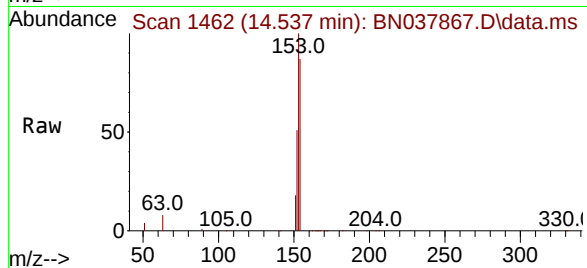




#17
Acenaphthene
Concen: 5.554 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

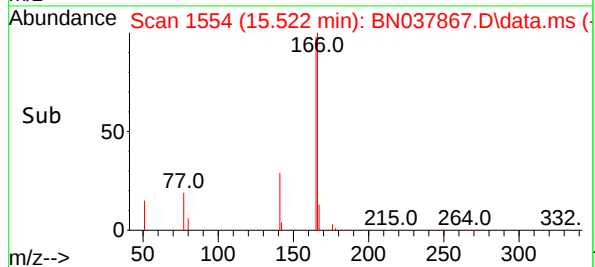
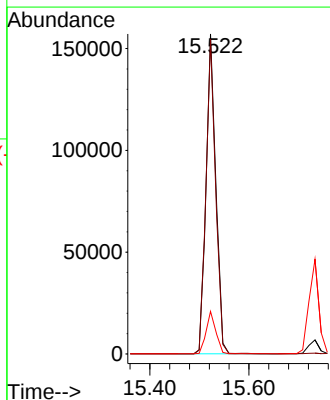
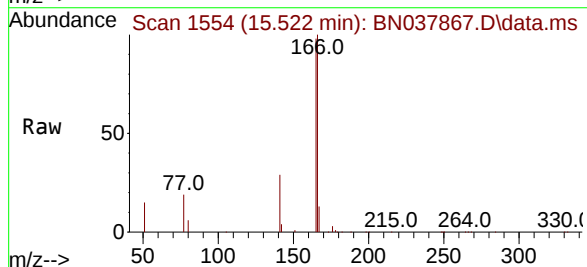
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

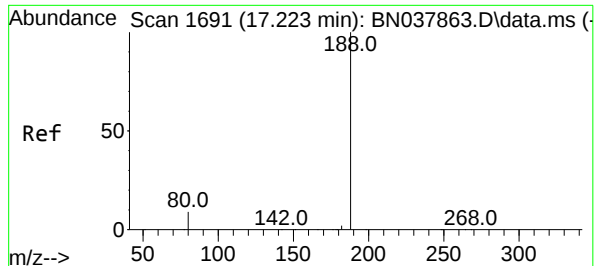
Tgt Ion:154 Resp: 171955
Ion Ratio Lower Upper
154 100
153 108.8 90.5 135.7
152 56.5 51.8 77.8



#18
Fluorene
Concen: 5.583 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:166 Resp: 209070
Ion Ratio Lower Upper
166 100
165 95.7 79.0 118.4
167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

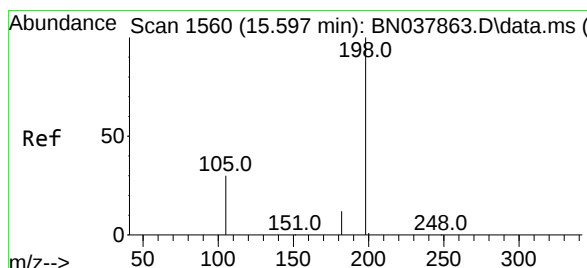
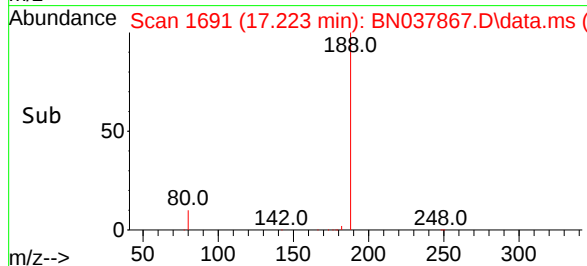
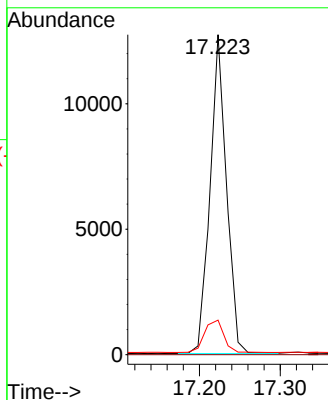
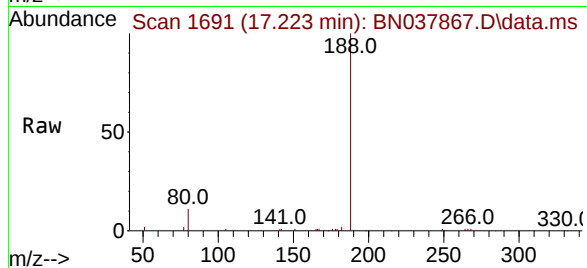
Tgt Ion:188 Resp: 17948

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.997 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

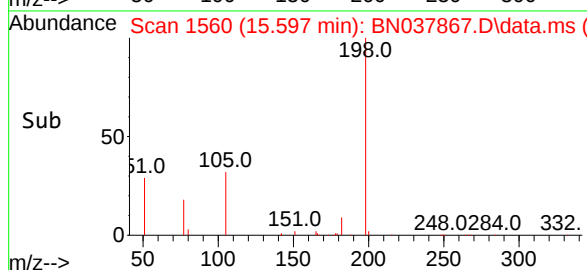
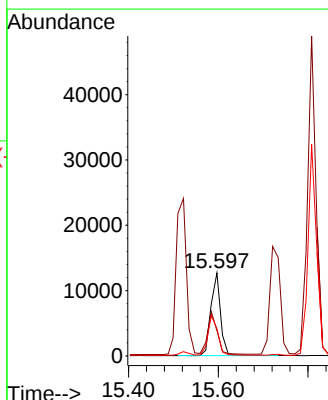
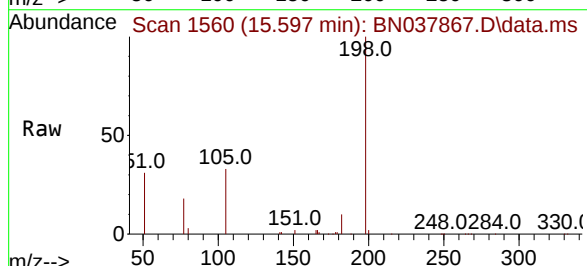
Tgt Ion:198 Resp: 18771

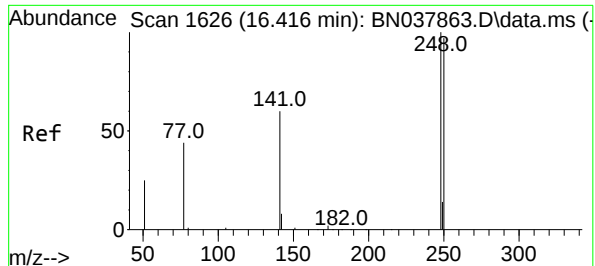
Ion Ratio Lower Upper

198 100

51 30.7 59.1 88.7#

105 32.7 41.3 61.9#

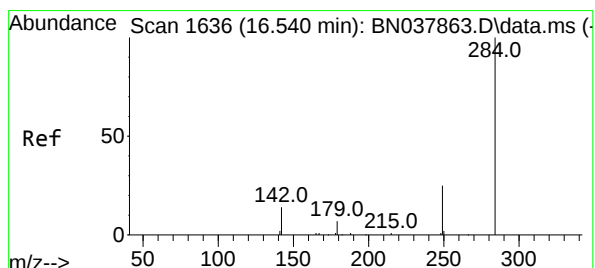
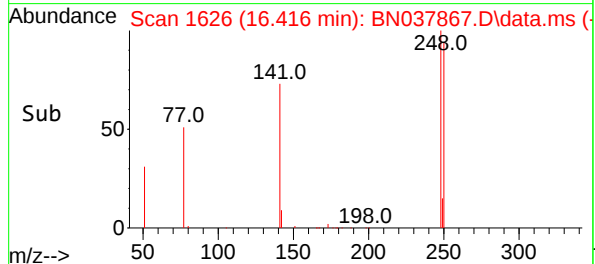
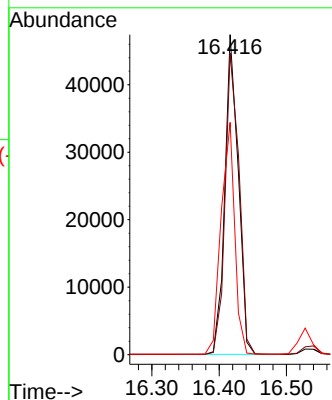
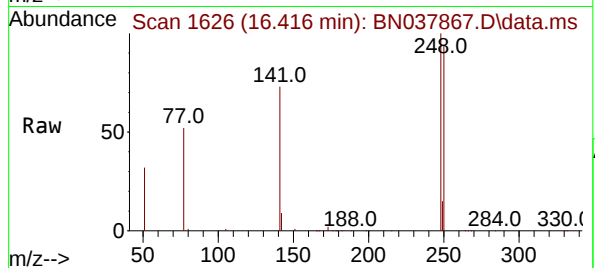




#21
4-Bromophenyl-phenylether
Concen: 5.577 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

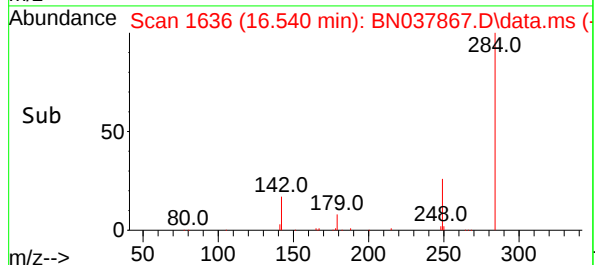
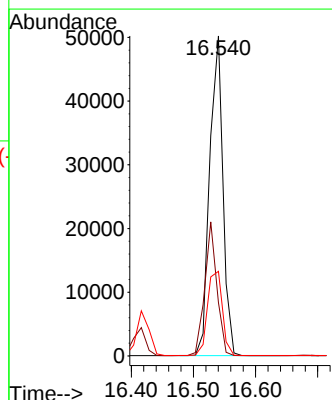
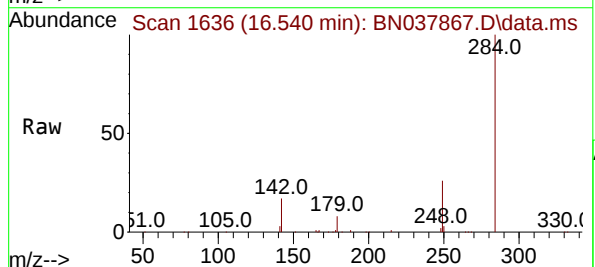
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

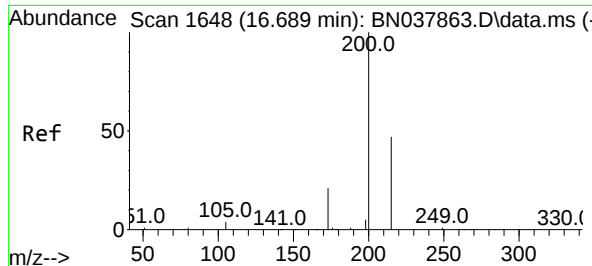
Tgt Ion:248 Resp: 65230
Ion Ratio Lower Upper
248 100
250 94.2 77.6 116.4
141 72.6 48.8 73.2



#22
Hexachlorobenzene
Concen: 5.252 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:284 Resp: 74475
Ion Ratio Lower Upper
284 100
142 38.4 30.9 46.3
249 29.6 23.9 35.9

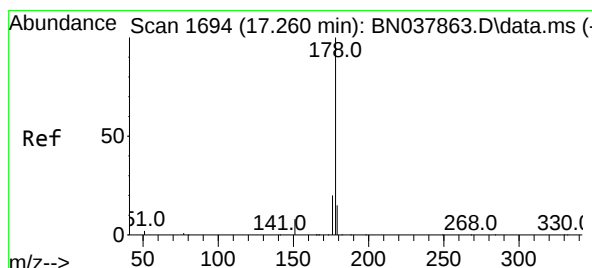
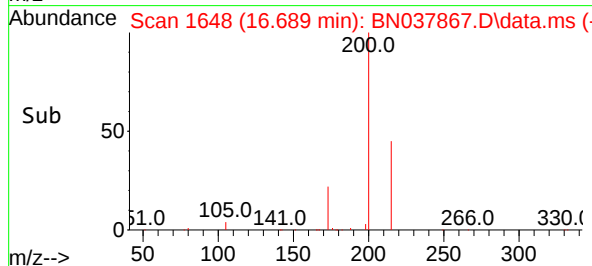
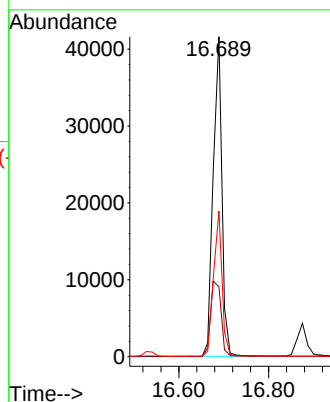
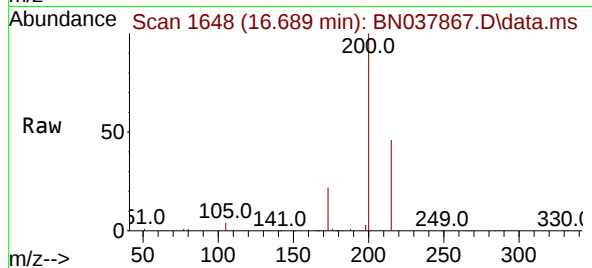




#23
Atrazine
Concen: 6.284 ng
RT: 16.689 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

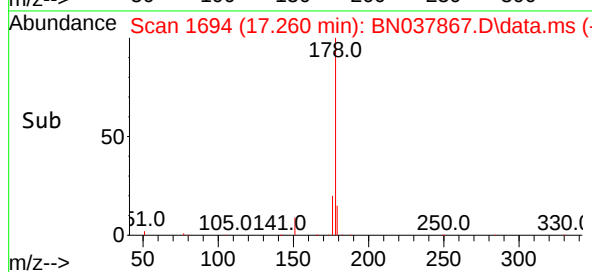
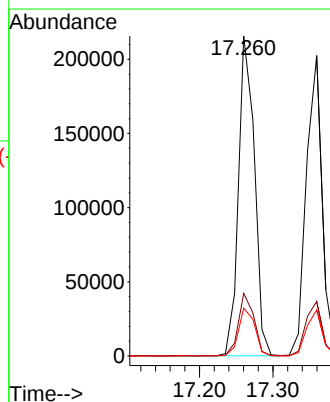
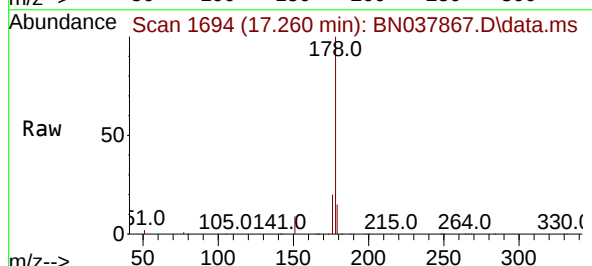
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

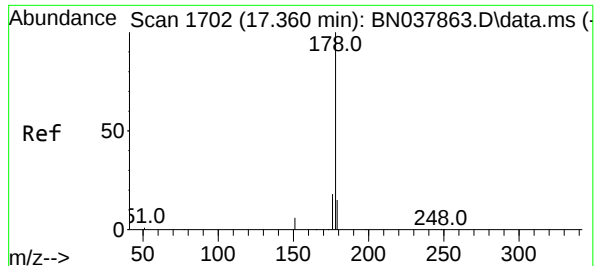
Tgt Ion	200	Resp:	55972
Ion Ratio	Lower	Upper	
200	100		
173	21.8	18.3	27.5
215	45.5	38.6	58.0



#25
Phenanthrene
Concen: 5.514 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion	178	Resp:	325691
Ion Ratio	Lower	Upper	
178	100		
176	19.1	15.7	23.5
179	15.1	12.3	18.5

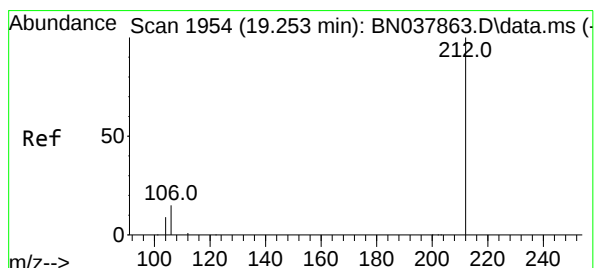
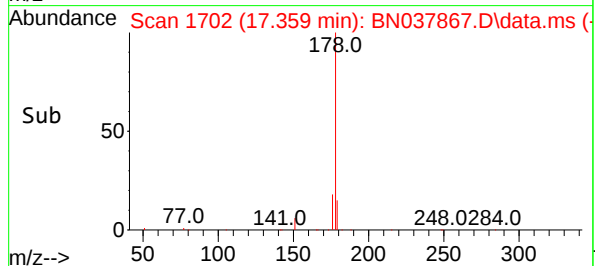
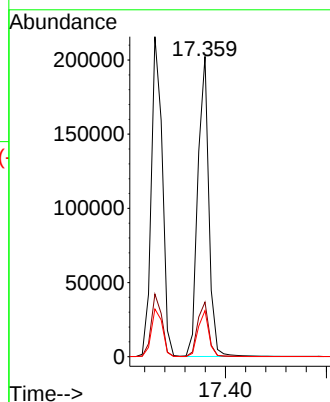
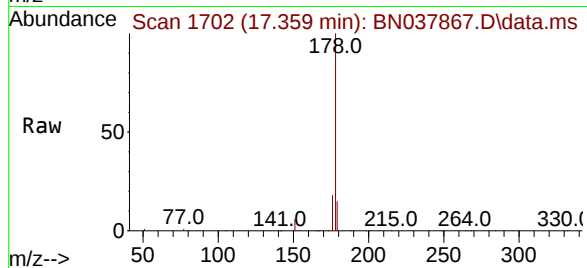




#26
Anthracene
Concen: 5.958 ng
RT: 17.359 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

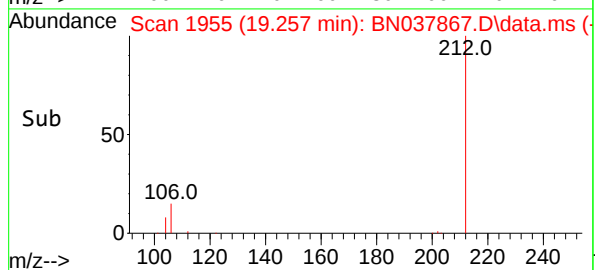
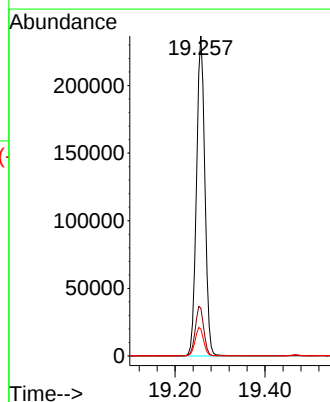
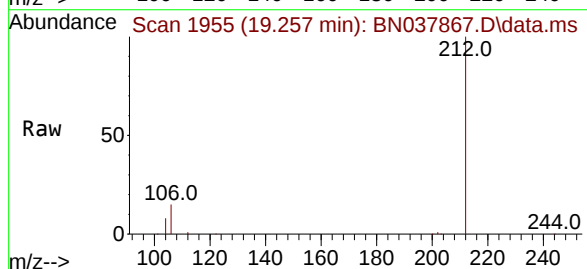
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

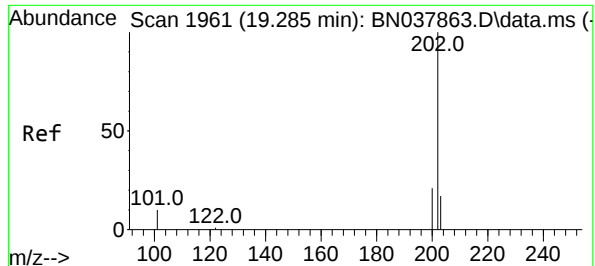
Tgt Ion:178 Resp: 305295
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.2 12.3 18.5



#27
Fluoranthene-d10
Concen: 6.807 ng
RT: 19.257 min Scan# 1955
Delta R.T. 0.005 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:212 Resp: 307332
Ion Ratio Lower Upper
212 100
106 15.7 12.6 19.0
104 9.0 7.4 11.0

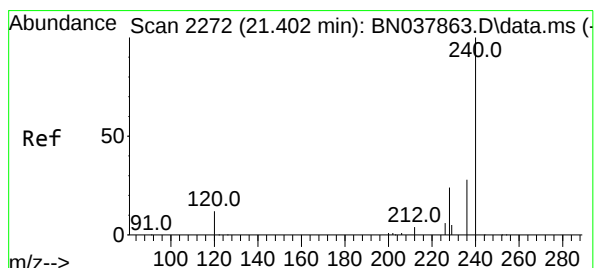
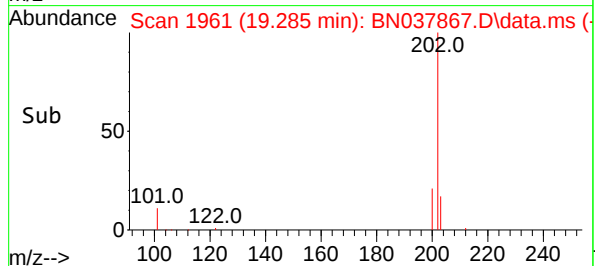
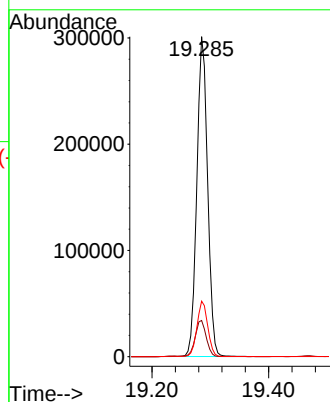
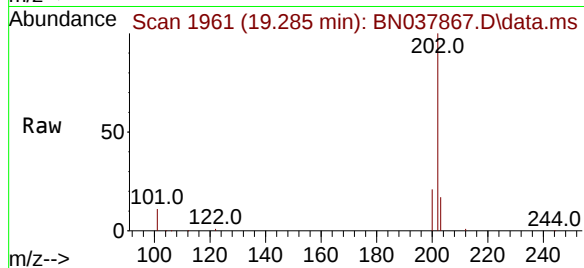




#28
Fluoranthene
Concen: 5.908 ng
RT: 19.285 min Scan# 1961
Delta R.T. -0.000 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

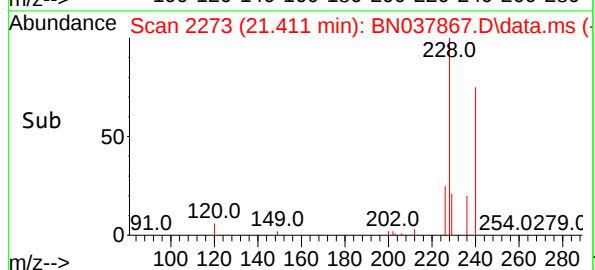
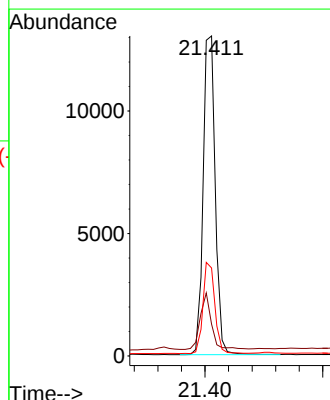
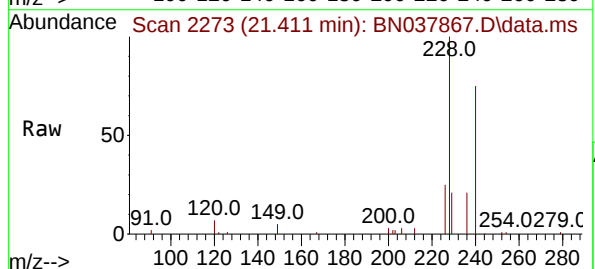
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

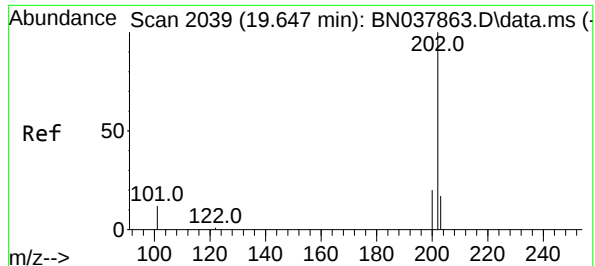
Tgt Ion:202 Resp: 384292
Ion Ratio Lower Upper
202 100
101 11.7 9.3 13.9
203 17.3 13.6 20.4



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.411 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:240 Resp: 18531
Ion Ratio Lower Upper
240 100
120 10.0 11.4 17.2#
236 27.5 23.0 34.6





#30

Pyrene

Concen: 5.315 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

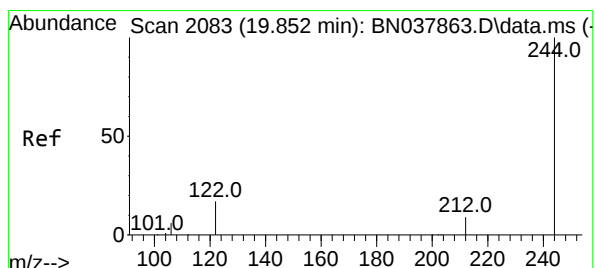
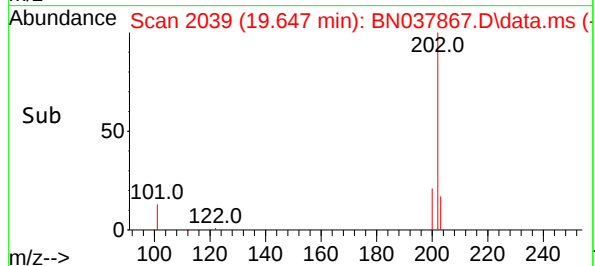
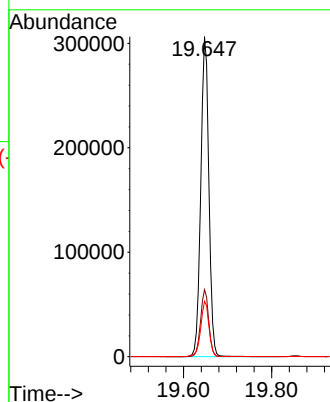
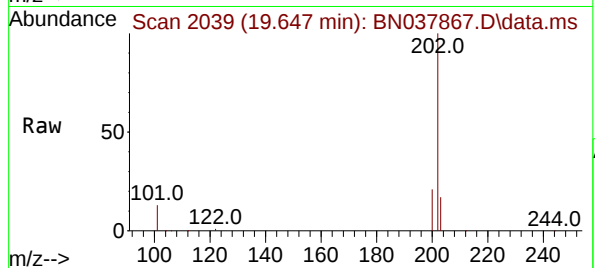
Tgt Ion:202 Resp: 388849

Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4



#31

Terphenyl-d14

Concen: 5.606 ng

RT: 19.856 min Scan# 2084

Delta R.T. 0.005 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

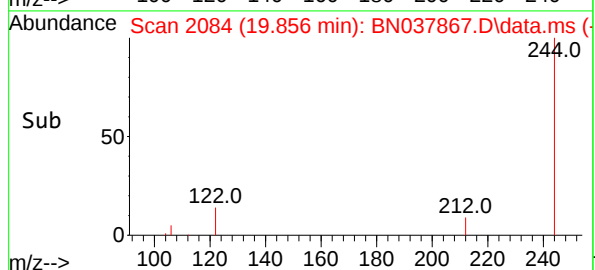
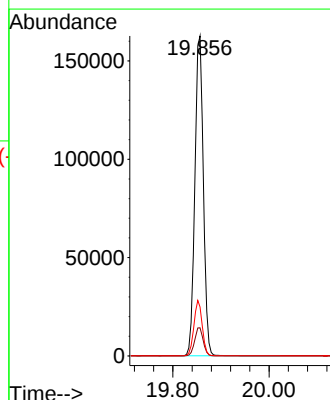
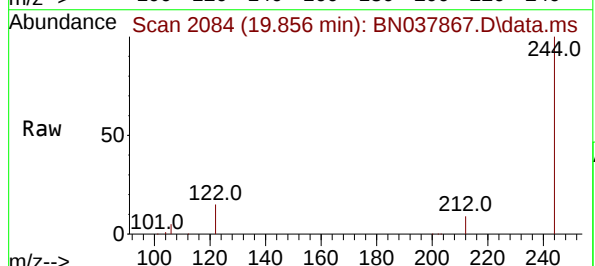
Tgt Ion:244 Resp: 206917

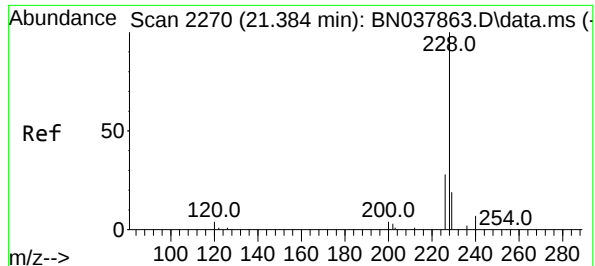
Ion Ratio Lower Upper

244 100

212 8.8 7.6 11.4

122 15.3 13.9 20.9





#32

Benzo(a)anthracene

Concen: 5.604 ng

RT: 21.393 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

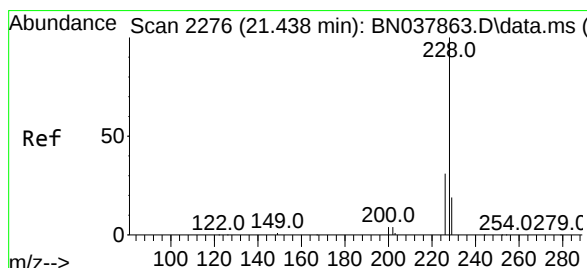
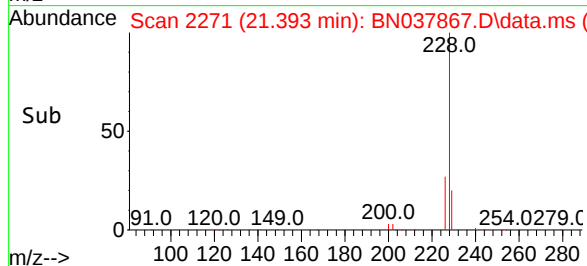
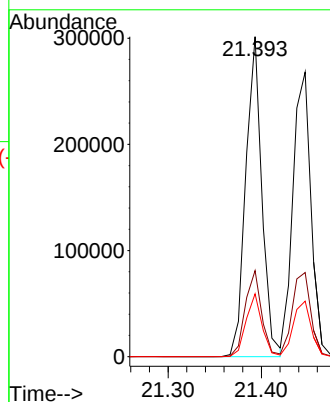
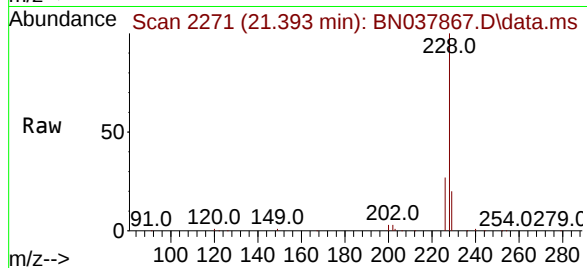
Tgt Ion:228 Resp: 362927

Ion Ratio Lower Upper

228 100

226 26.9 22.6 33.8

229 19.7 15.6 23.4



#33

Chrysene

Concen: 5.189 ng

RT: 21.447 min Scan# 2277

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

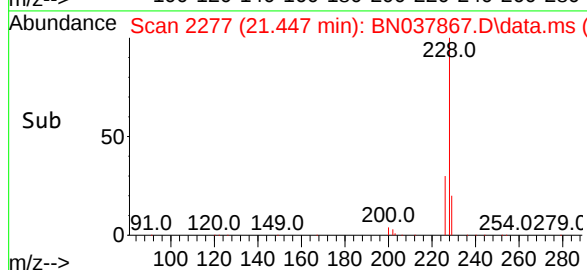
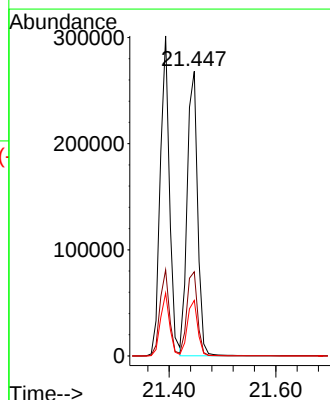
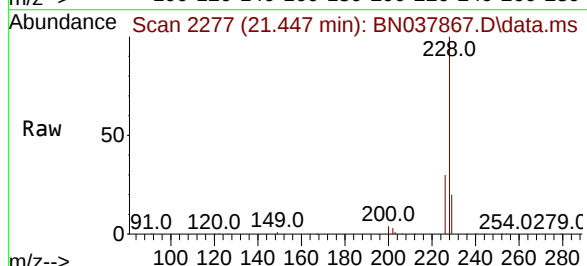
Tgt Ion:228 Resp: 363421

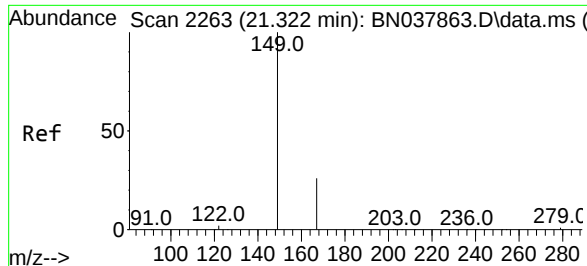
Ion Ratio Lower Upper

228 100

226 29.6 24.6 37.0

229 19.5 15.6 23.4

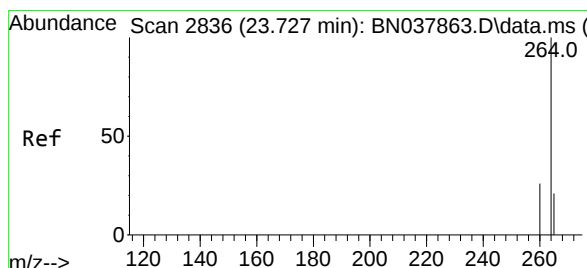
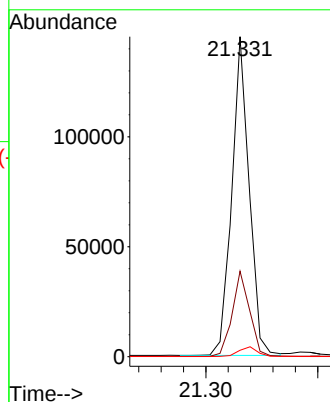
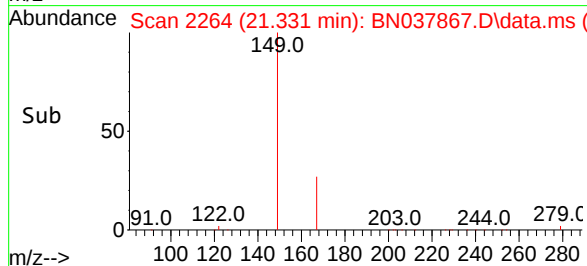
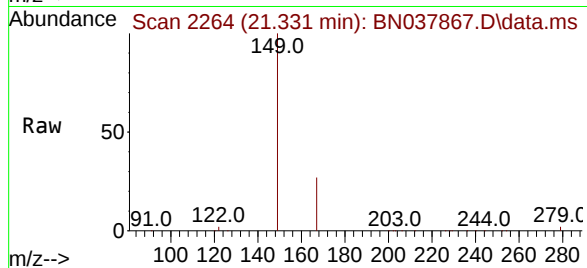




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.109 ng
RT: 21.331 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

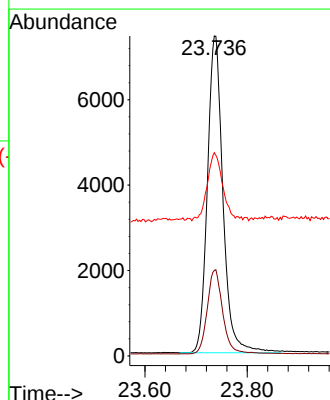
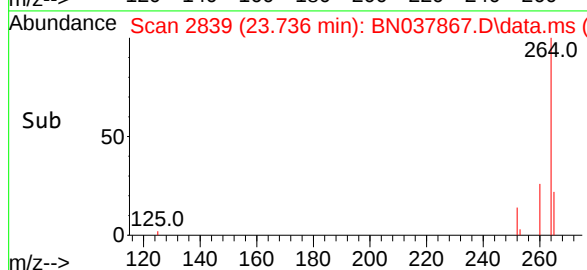
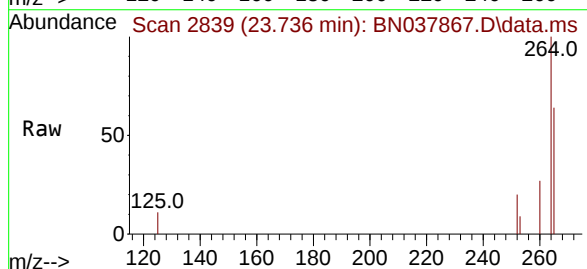
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

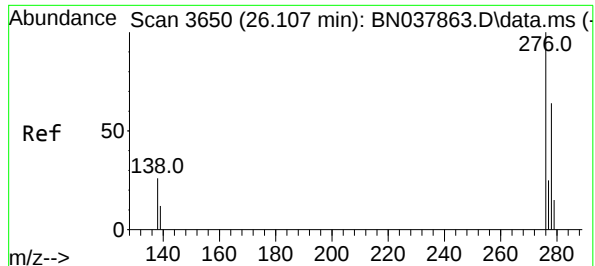
Tgt Ion:149 Resp: 156492
Ion Ratio Lower Upper
149 100
167 26.8 20.4 30.6
279 3.2 2.4 3.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.736 min Scan# 2839
Delta R.T. 0.009 min
Lab File: BN037867.D
Acq: 23 Sep 2025 15:51

Tgt Ion:264 Resp: 15649
Ion Ratio Lower Upper
264 100
260 26.8 21.5 32.3
265 63.5 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.906 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037867.D

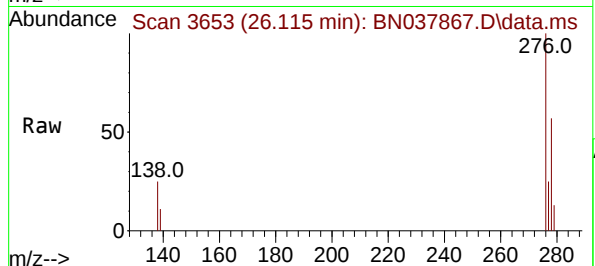
Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



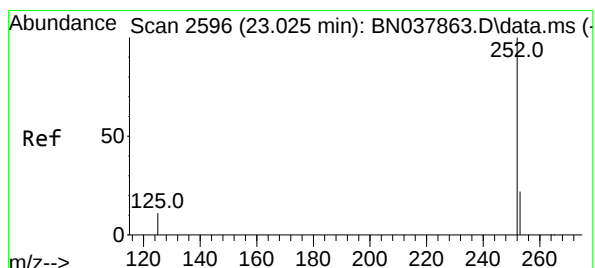
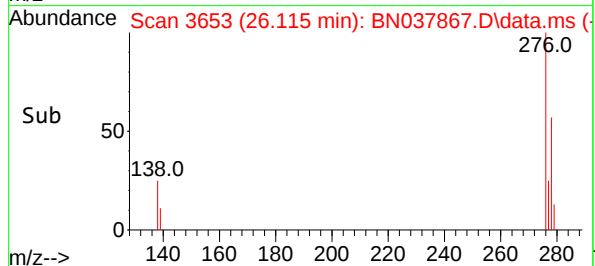
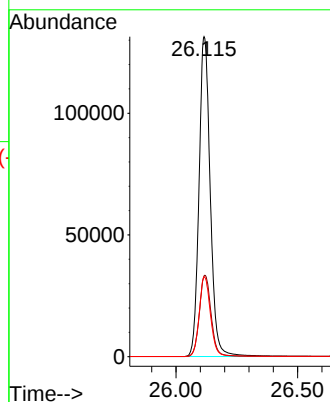
Tgt Ion:276 Resp: 422337

Ion Ratio Lower Upper

276 100

138 26.3 21.4 32.0

277 25.1 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 5.742 ng

RT: 23.034 min Scan# 2599

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

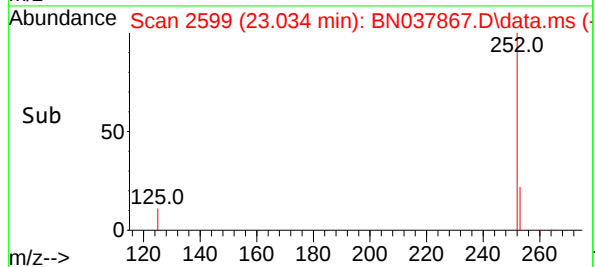
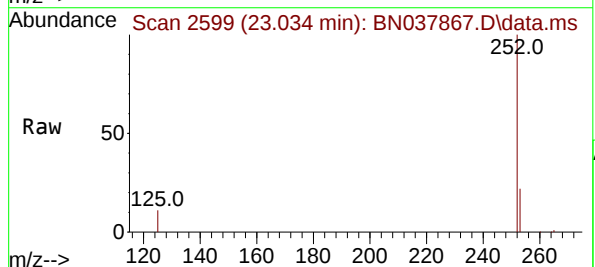
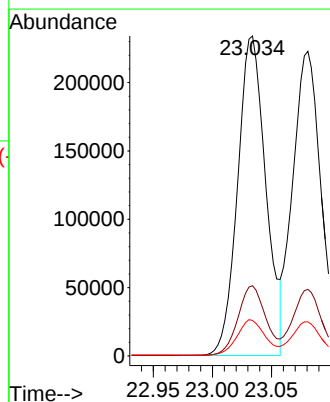
Tgt Ion:252 Resp: 387512

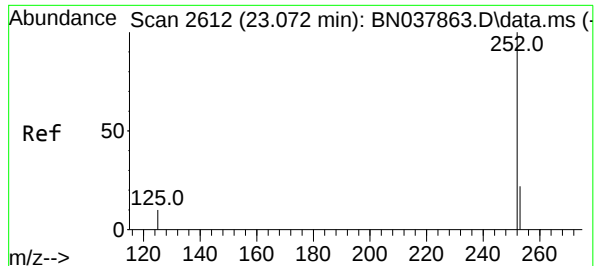
Ion Ratio Lower Upper

252 100

253 22.0 19.4 29.0

125 11.1 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 23.081 min Scan# 20

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

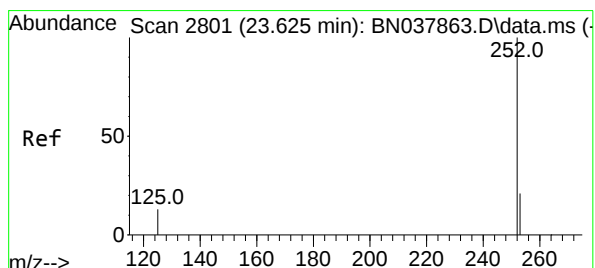
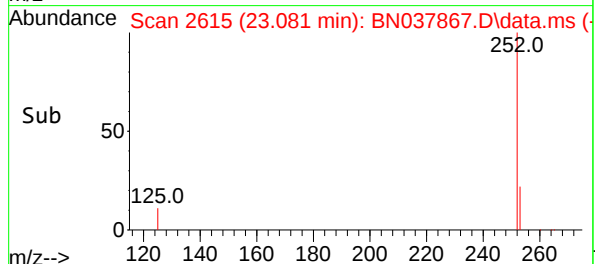
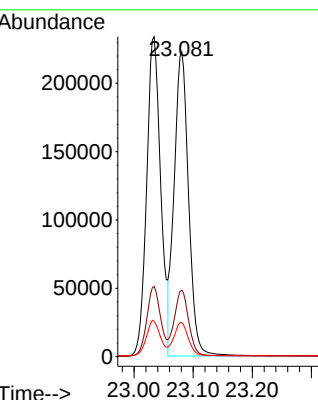
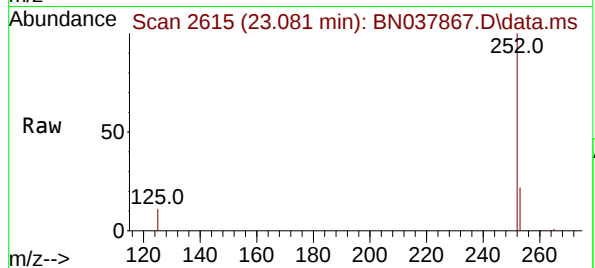
Tgt Ion:252 Resp: 376732

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 11.2 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 5.900 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

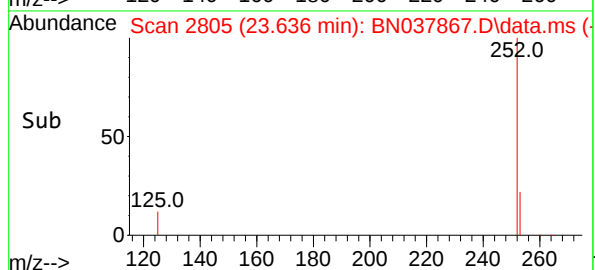
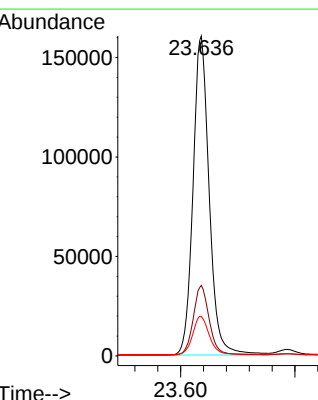
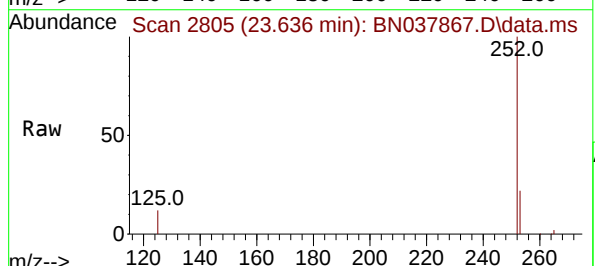
Tgt Ion:252 Resp: 314913

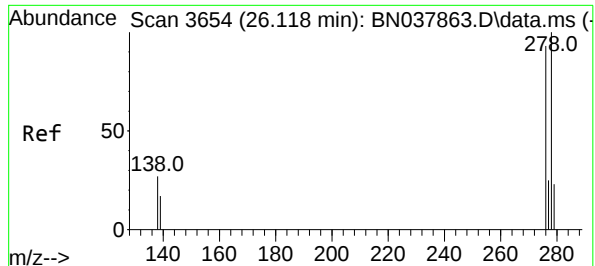
Ion Ratio Lower Upper

252 100

253 22.0 20.6 30.8

125 12.3 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 5.971 ng

RT: 26.133 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

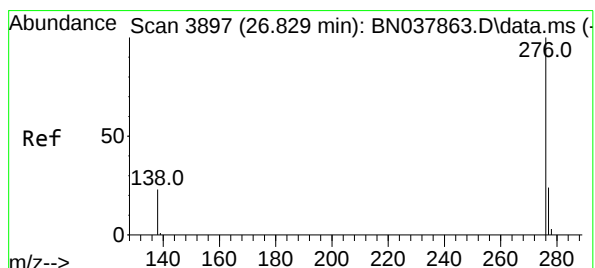
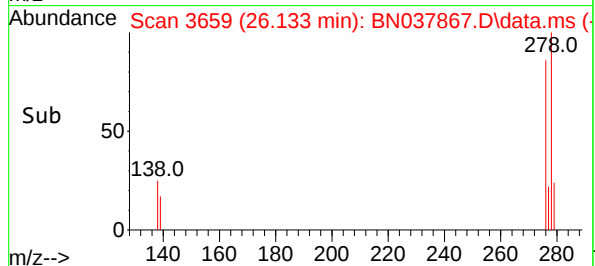
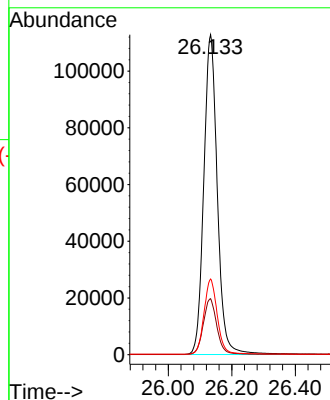
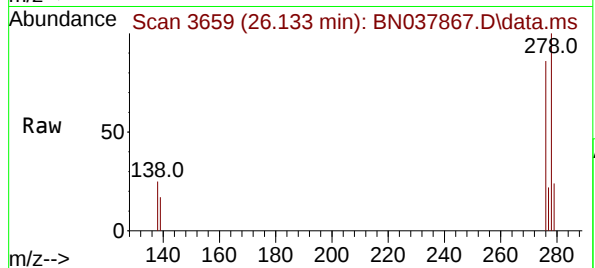
Tgt Ion:278 Resp: 333427

Ion Ratio Lower Upper

278 100

139 17.5 15.4 23.2

279 23.6 20.8 31.2



#41

Benzo(g,h,i)perylene

Concen: 5.913 ng

RT: 26.840 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

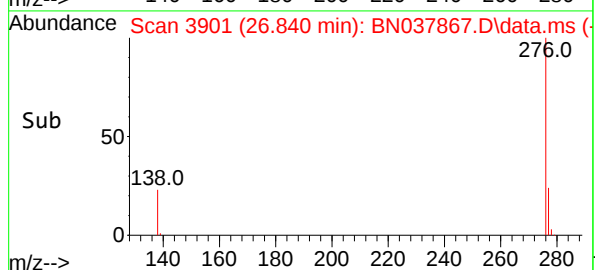
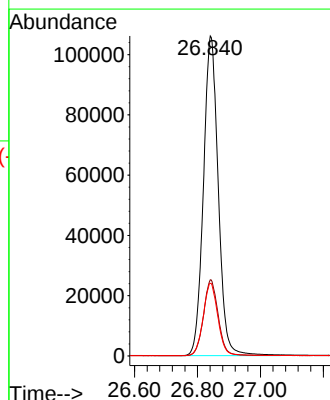
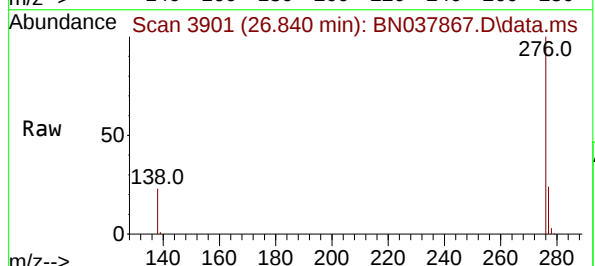
Tgt Ion:276 Resp: 346868

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 22.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

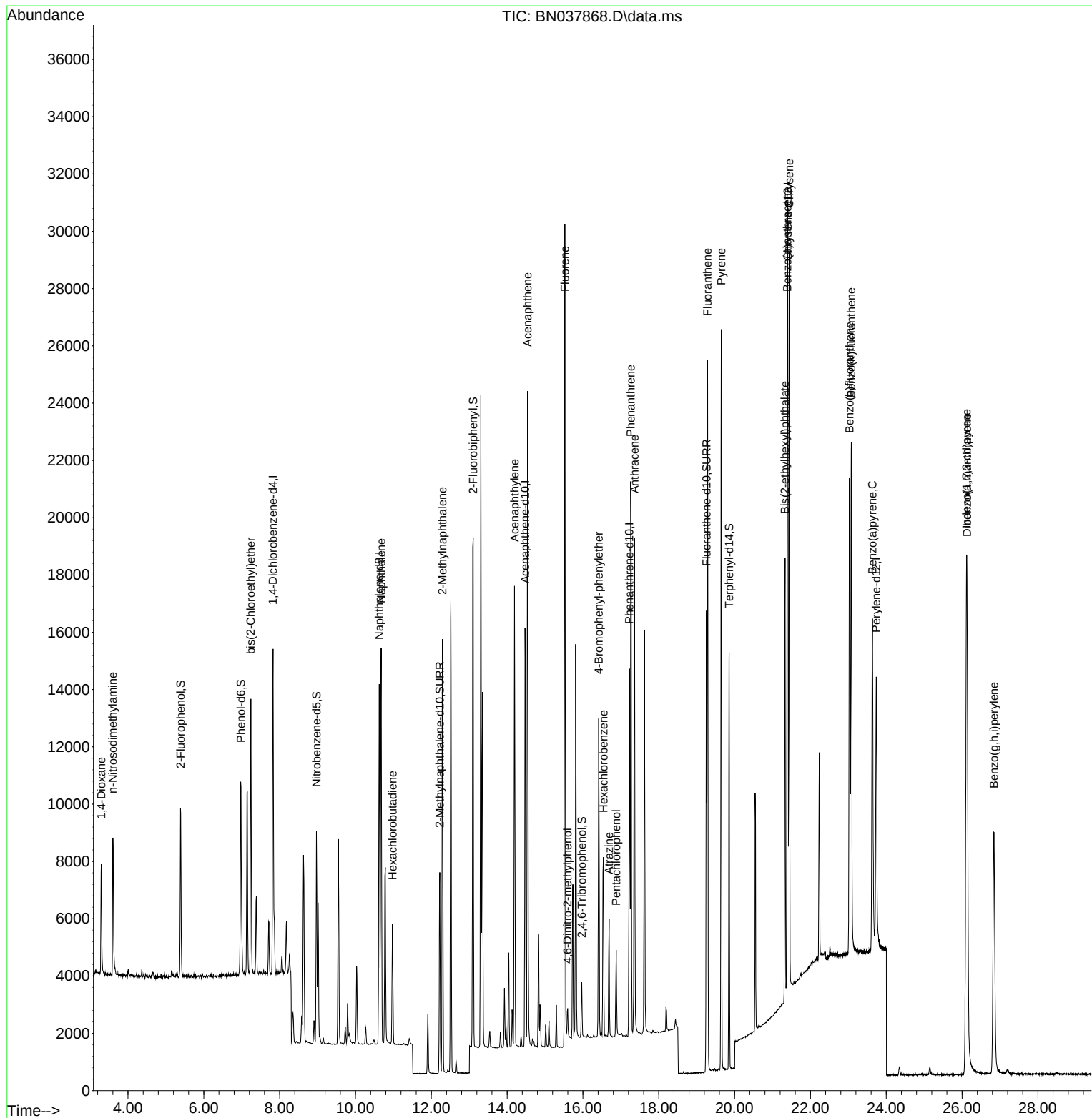
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.825	152	5572	0.400	ng	0.00
7) Naphthalene-d8	10.626	136	16158	0.400	ng	0.00
13) Acenaphthene-d10	14.473	164	8429	0.400	ng	0.00
19) Phenanthrene-d10	17.223	188	16279	0.400	ng	# 0.00
29) Chrysene-d12	21.402	240	14204	0.400	ng	# 0.00
35) Perylene-d12	23.736	264	13265	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.392	112	5005	0.394	ng	0.00
5) Phenol-d6	6.980	99	6375	0.382	ng	0.00
8) Nitrobenzene-d5	8.971	82	5453	0.442	ng	0.00
11) 2-Methylnaphthalene-d10	12.222	152	9492	0.423	ng	0.00
14) 2,4,6-Tribromophenol	15.969	330	1107	0.346	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	16723	0.485	ng	0.01
27) Fluoranthene-d10	19.257	212	16910	0.413	ng	0.00
31) Terphenyl-d14	19.856	244	13646	0.482	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.297	88	2698	0.477	ng	98
3) n-Nitrosodimethylamine	3.600	42	3070	0.408	ng	# 89
6) bis(2-Chloroethyl)ether	7.240	93	6823	0.440	ng	99
9) Naphthalene	10.680	128	18392	0.413	ng	99
10) Hexachlorobutadiene	10.979	225	3253	0.428	ng	# 100
12) 2-Methylnaphthalene	12.293	142	10904	0.375	ng	99
16) Acenaphthylene	14.195	152	16721	0.437	ng	99
17) Acenaphthene	14.537	154	11059	0.406	ng	99
18) Fluorene	15.522	166	13327	0.404	ng	97
20) 4,6-Dinitro-2-methylph...	15.597	198	737	0.418	ng	99
21) 4-Bromophenyl-phenylether	16.416	248	4157	0.392	ng	# 89
22) Hexachlorobenzene	16.540	284	5455	0.424	ng	100
23) Atrazine	16.689	200	3196	0.396	ng	98
24) Pentachlorophenol	16.875	266	1396	0.316	ng	99
25) Phenanthrene	17.260	178	22020	0.411	ng	100
26) Anthracene	17.360	178	18967	0.408	ng	99
28) Fluoranthene	19.285	202	23044	0.391	ng	100
30) Pyrene	19.647	202	22563	0.402	ng	100
32) Benzo(a)anthracene	21.393	228	20398	0.411	ng	99
33) Chrysene	21.438	228	22204	0.414	ng	99
34) Bis(2-ethylhexyl)phtha...	21.331	149	7939	0.404	ng	98
36) Indeno(1,2,3-cd)pyrene	26.115	276	25340	0.418	ng	99
37) Benzo(b)fluoranthene	23.031	252	22193	0.388	ng	99
38) Benzo(k)fluoranthene	23.078	252	23886	0.415	ng	100
39) Benzo(a)pyrene	23.633	252	19091	0.422	ng	100
40) Dibenzo(a,h)anthracene	26.130	278	19441	0.411	ng	100
41) Benzo(g,h,i)perylene	26.841	276	19570	0.394	ng	99

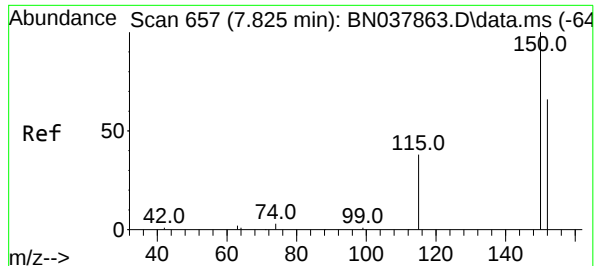
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037868.D
Acq On : 23 Sep 2025 16:28
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN092325

Quant Time: Sep 24 11:02:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

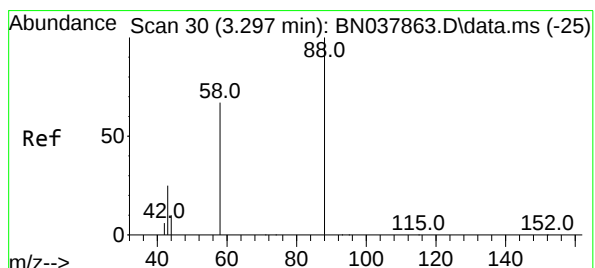
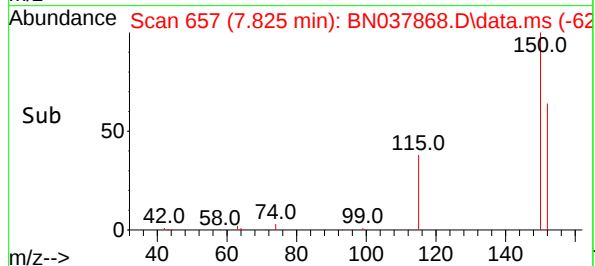
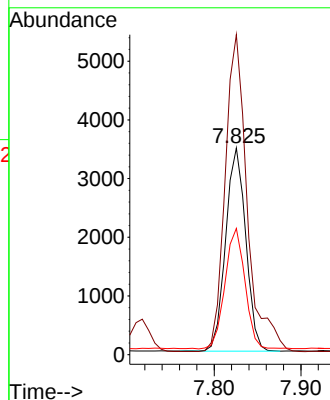
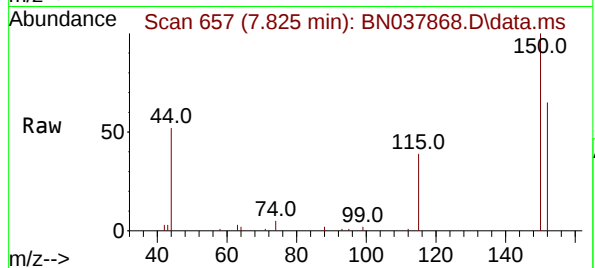




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.825 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

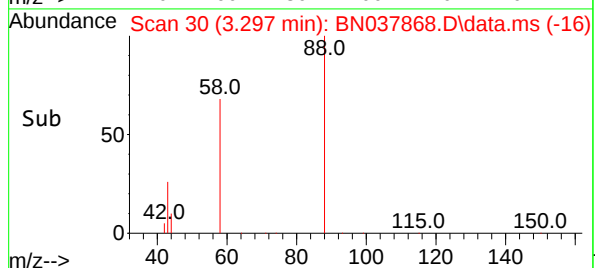
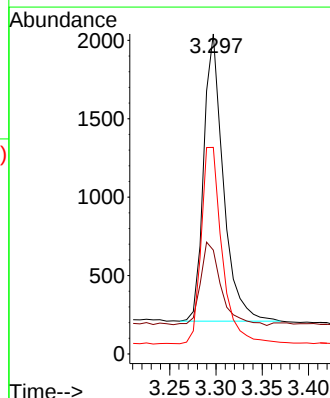
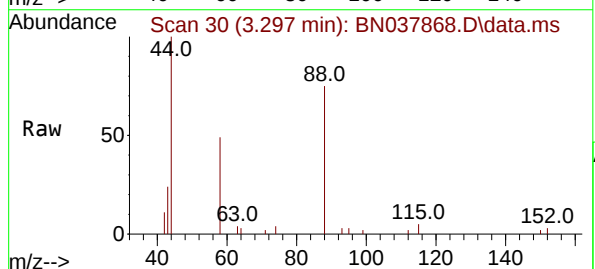
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

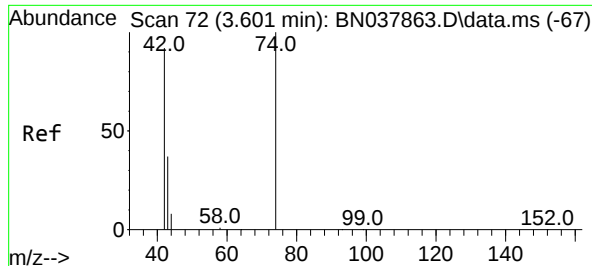
Tgt Ion:152 Resp: 5572
Ion Ratio Lower Upper
152 100
150 154.8 121.0 181.4
115 61.0 47.4 71.0



#2
1,4-Dioxane
Concen: 0.477 ng
RT: 3.297 min Scan# 30
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 88 Resp: 2698
Ion Ratio Lower Upper
88 100
43 30.6 26.6 39.8
58 72.8 58.9 88.3

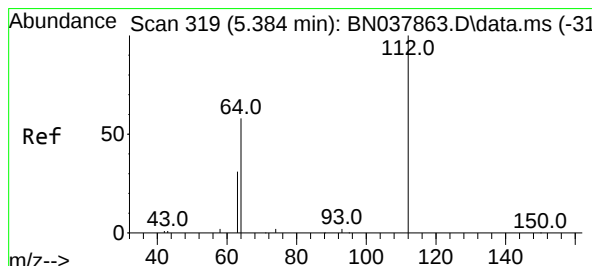
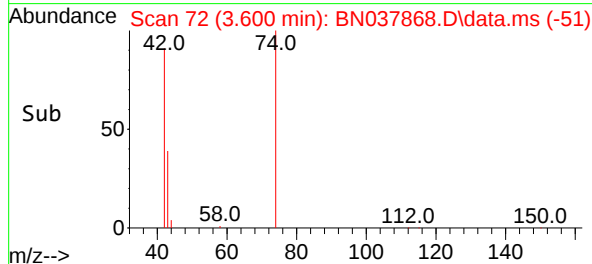
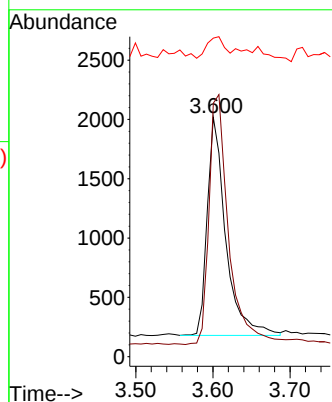
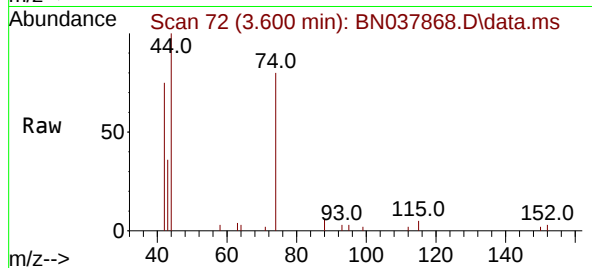




#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.600 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

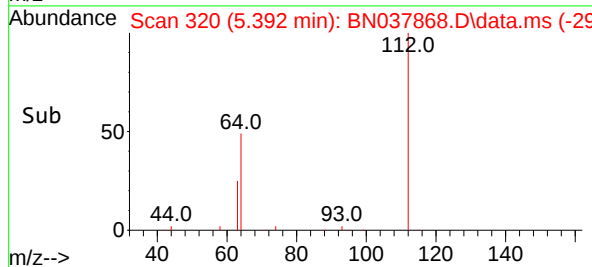
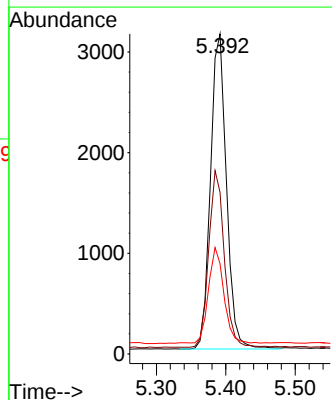
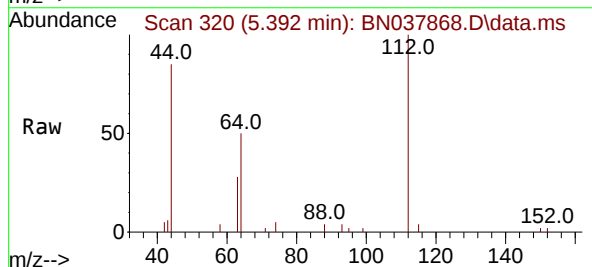
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

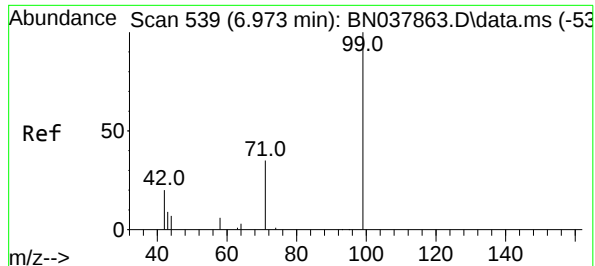
Tgt Ion: 42 Resp: 3070
Ion Ratio Lower Upper
42 100
74 121.8 93.4 140.0
44 9.2 22.2 33.4#



#4
2-Fluorophenol
Concen: 0.394 ng
RT: 5.392 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 112 Resp: 5005
Ion Ratio Lower Upper
112 100
64 54.6 44.6 66.8
63 29.8 24.9 37.3

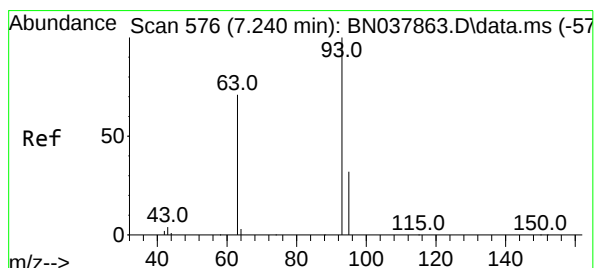
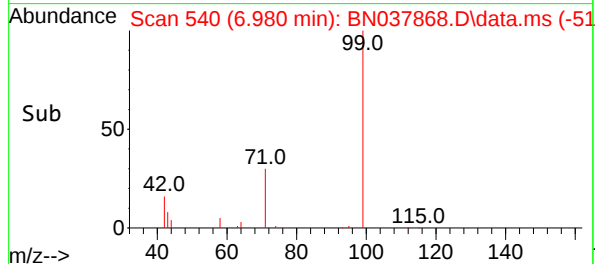
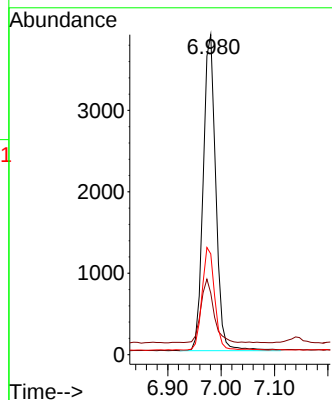
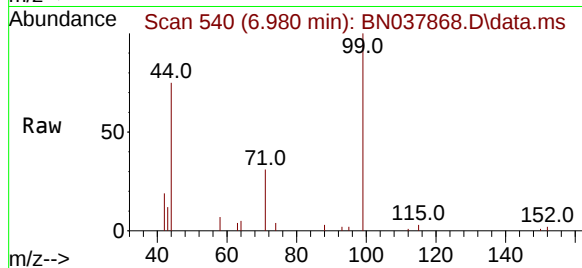




#5
Phenol-d6
Concen: 0.382 ng
RT: 6.980 min Scan# 540
Delta R.T. 0.007 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

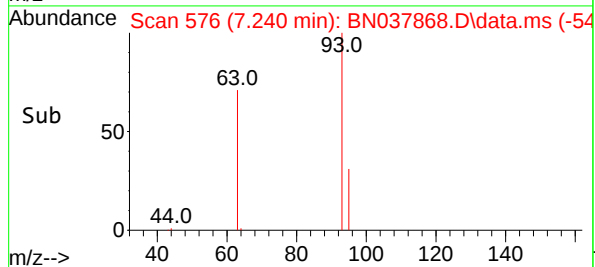
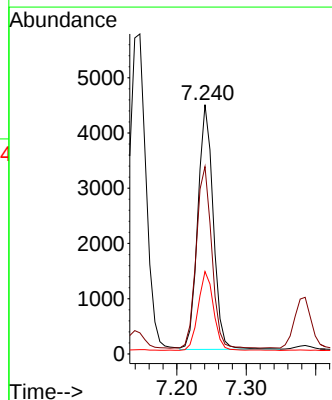
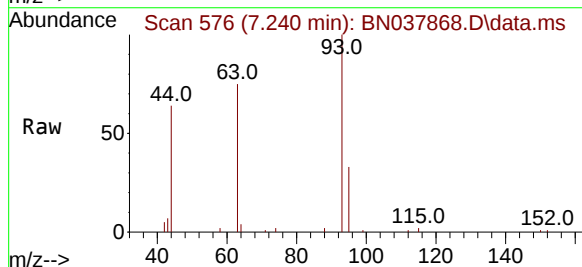
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

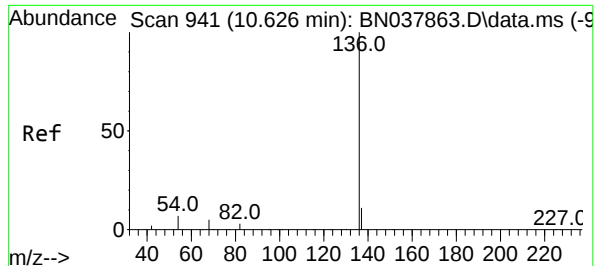
Tgt Ion: 99 Resp: 6375
Ion Ratio Lower Upper
99 100
42 20.3 17.2 25.8
71 32.5 27.3 40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.440 ng
RT: 7.240 min Scan# 576
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion: 93 Resp: 6823
Ion Ratio Lower Upper
93 100
63 74.7 60.1 90.1
95 32.3 25.4 38.2





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.626 min Scan# 941

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

Tgt Ion:136 Resp: 16158

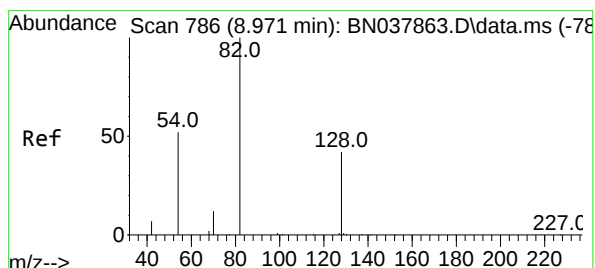
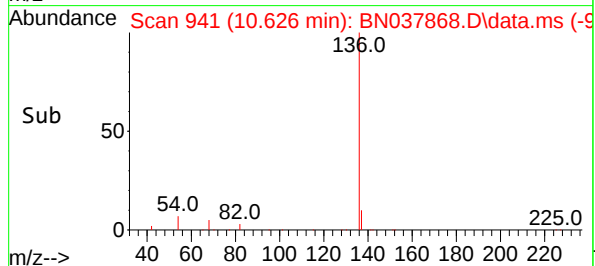
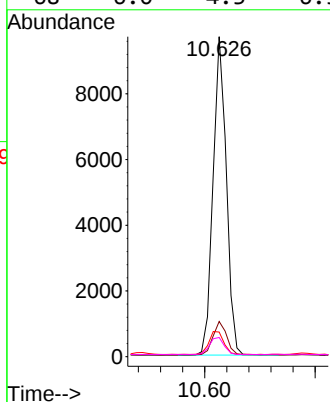
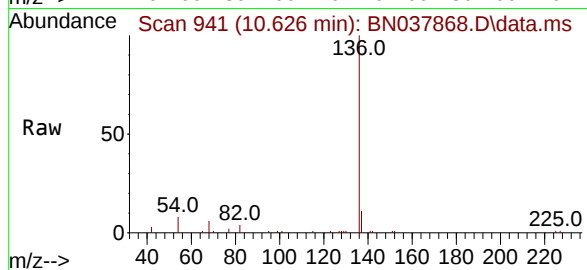
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.7 5.8 8.8

68 6.0 4.3 6.5



#8

Nitrobenzene-d5

Concen: 0.442 ng

RT: 8.971 min Scan# 786

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

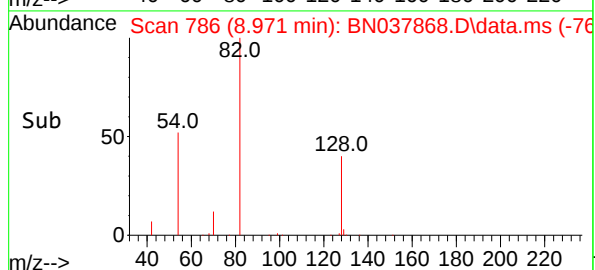
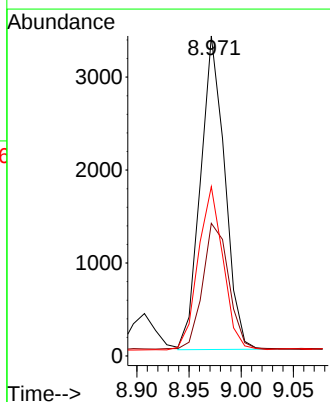
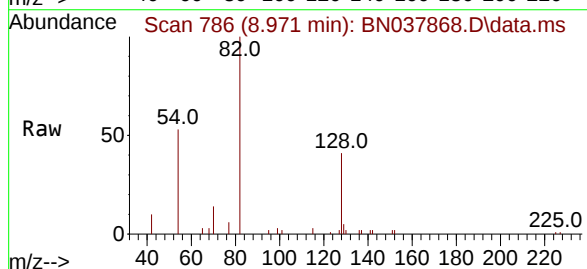
Tgt Ion: 82 Resp: 5453

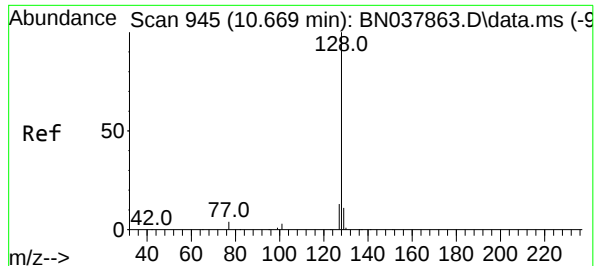
Ion Ratio Lower Upper

82 100

128 41.4 34.8 52.2

54 52.9 42.2 63.2

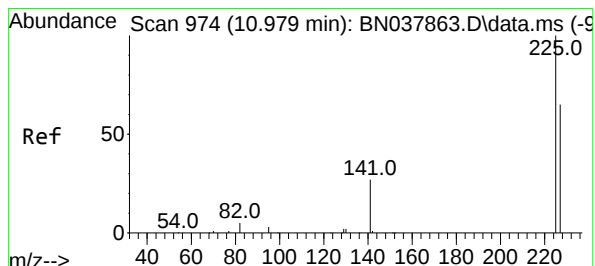
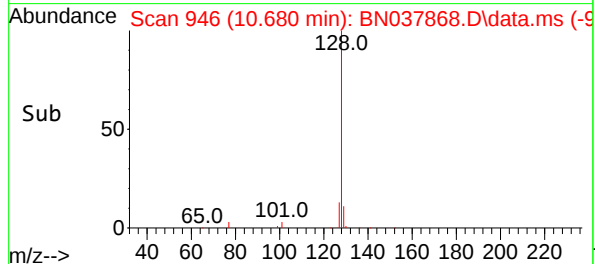
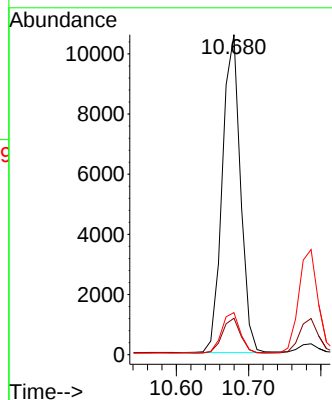
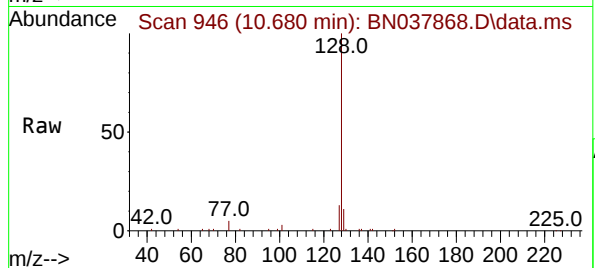




#9
Naphthalene
Concen: 0.413 ng
RT: 10.680 min Scan# 945
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

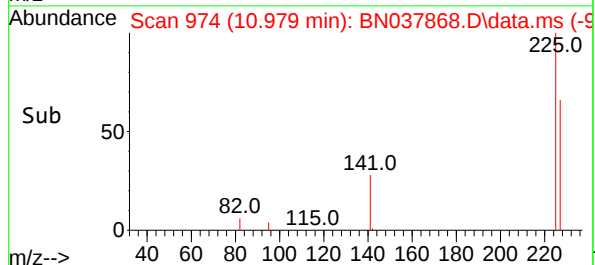
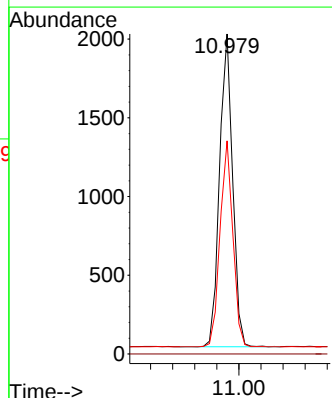
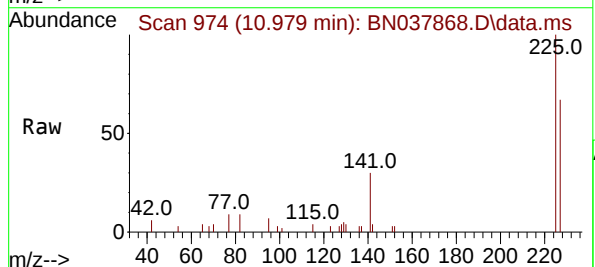
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

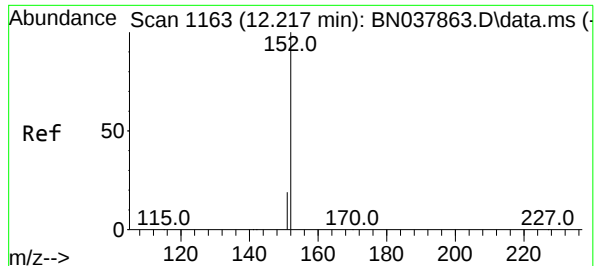
Tgt Ion:128 Resp: 18392
Ion Ratio Lower Upper
128 100
129 11.4 9.2 13.8
127 13.1 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.428 ng
RT: 10.979 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:225 Resp: 3253
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.5 51.4 77.2

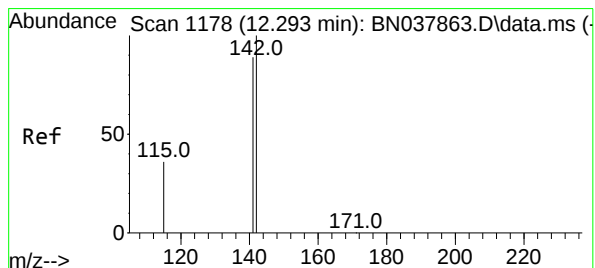
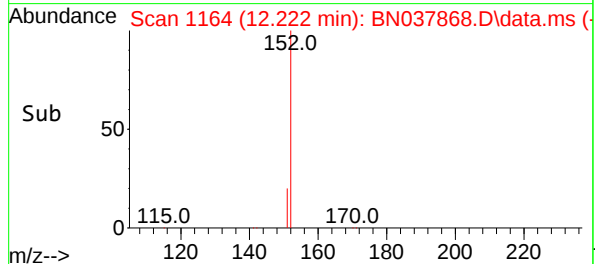
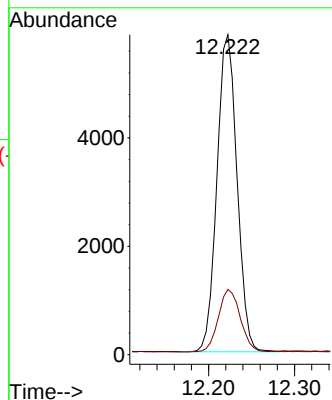
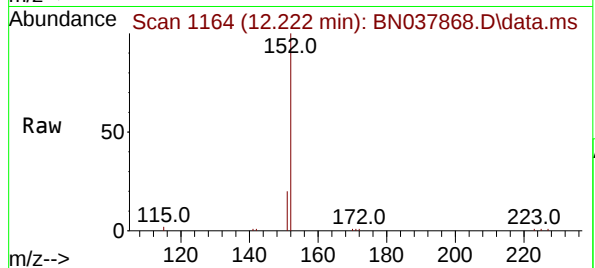




#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 12.222 min Scan# 1164
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

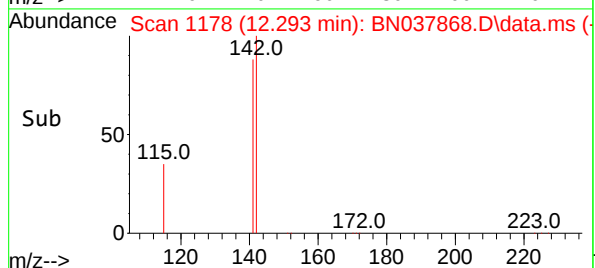
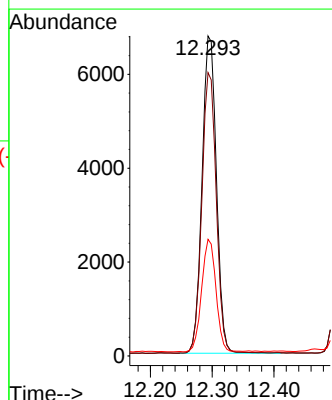
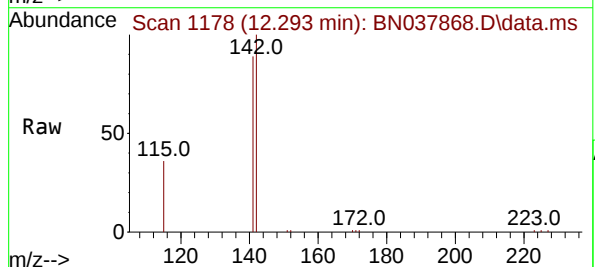
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

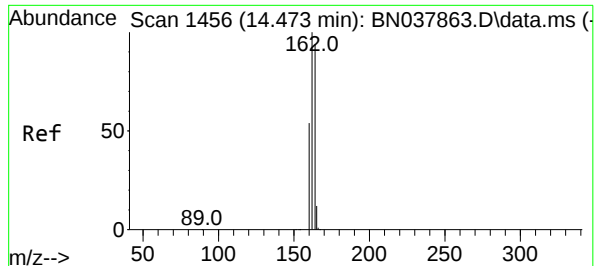
Tgt Ion:152 Resp: 9492
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.293 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:142 Resp: 10904
Ion Ratio Lower Upper
142 100
141 88.6 71.2 106.8
115 36.5 29.7 44.5

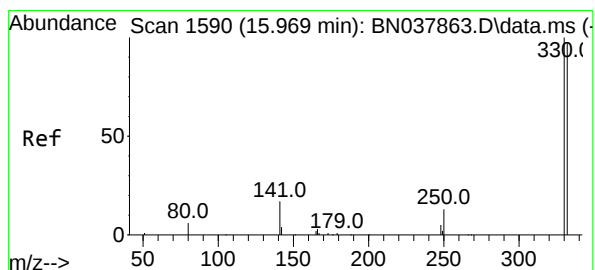
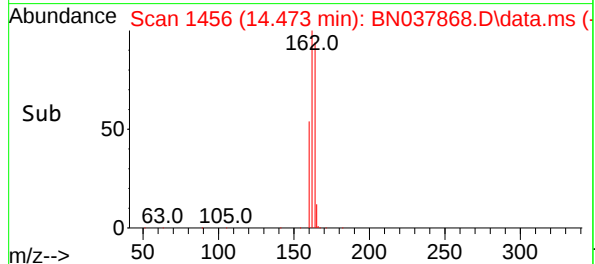
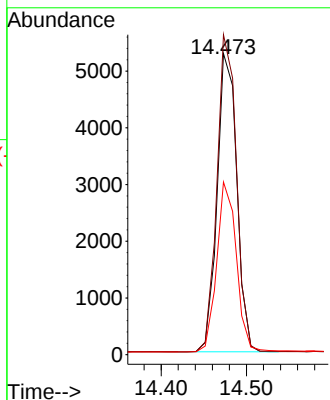
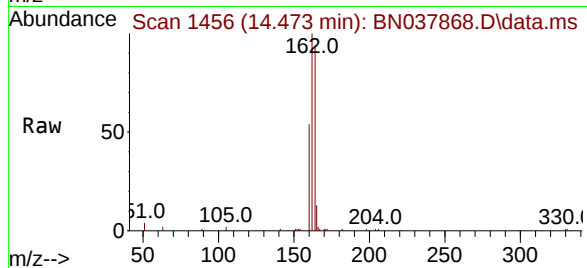




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.473 min Scan# 1456
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

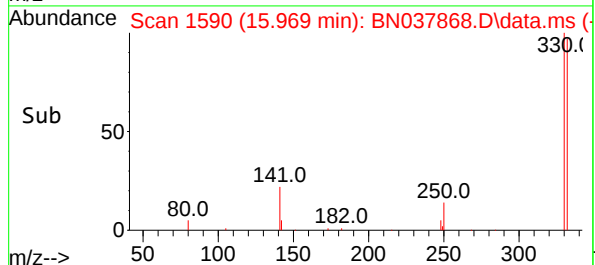
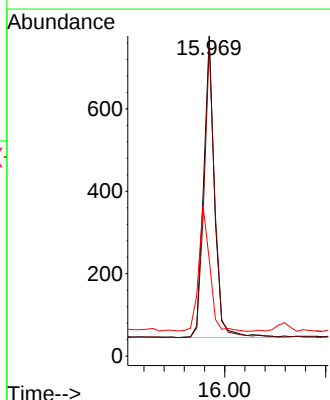
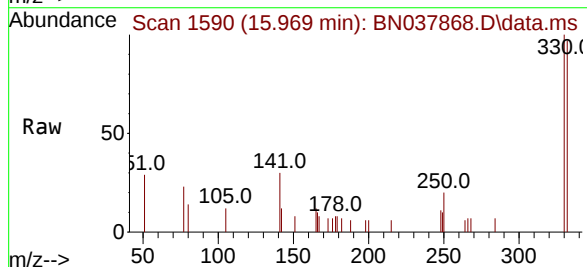
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

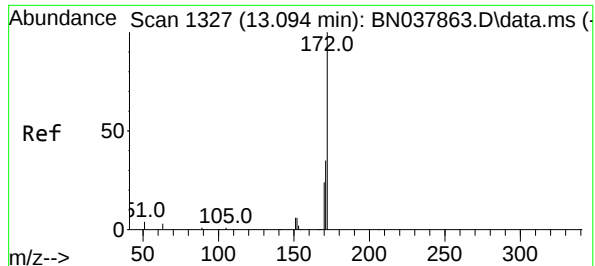
Tgt Ion:164 Resp: 8429
Ion Ratio Lower Upper
164 100
162 106.3 84.8 127.2
160 57.3 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.346 ng
RT: 15.969 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:330 Resp: 1107
Ion Ratio Lower Upper
330 100
332 94.1 77.2 115.8
141 42.0 37.2 55.8

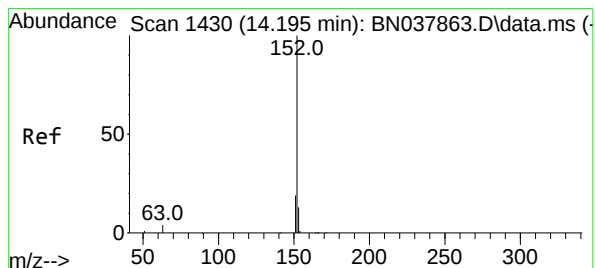
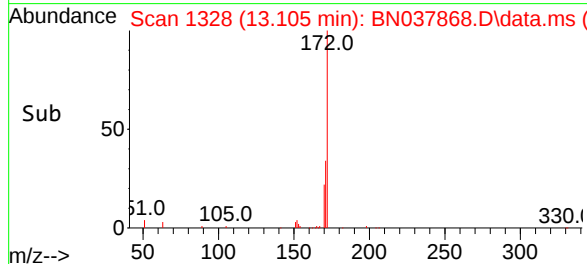
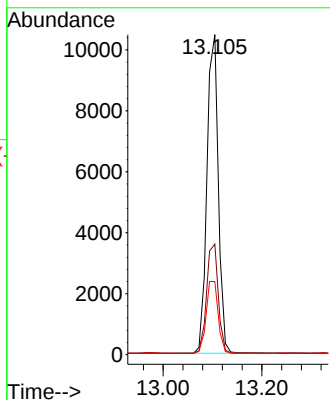
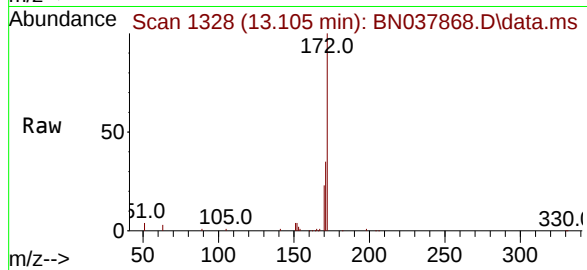




#15
2-Fluorobiphenyl
Concen: 0.485 ng
RT: 13.105 min Scan# 1328
Delta R.T. 0.011 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

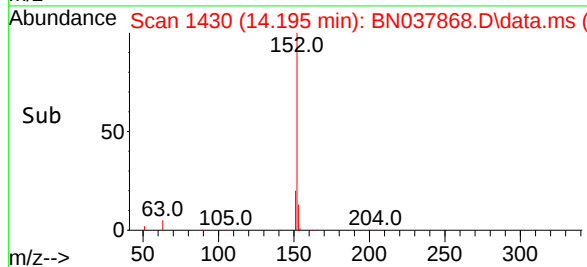
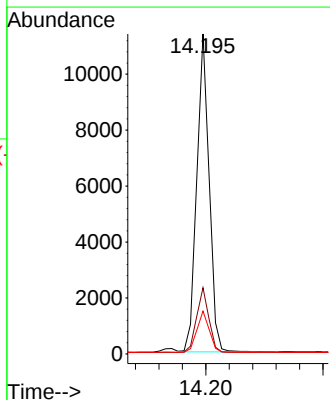
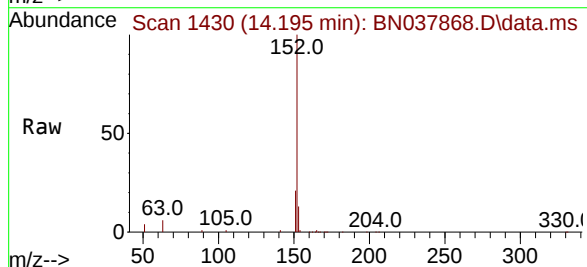
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

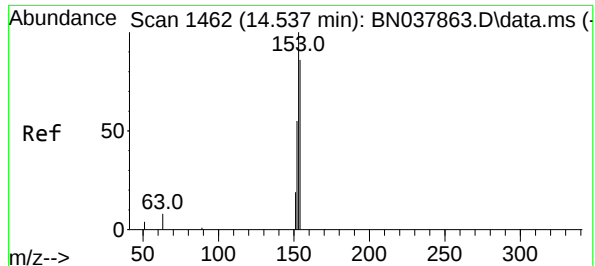
Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	43.0
170	22.9	19.7	29.5



#16
Acenaphthylene
Concen: 0.437 ng
RT: 14.195 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	13.0	10.5	15.7

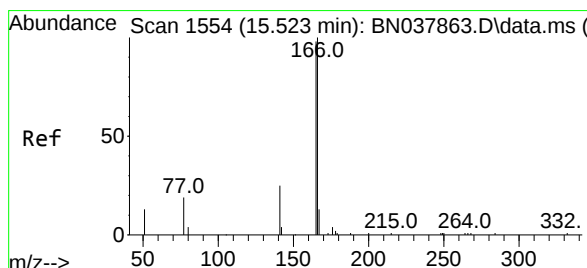
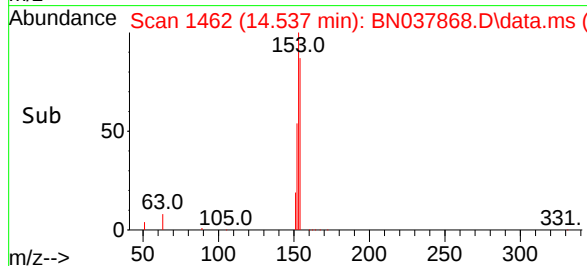
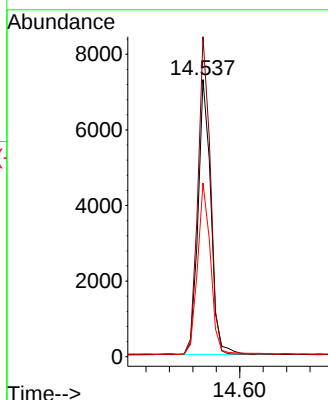
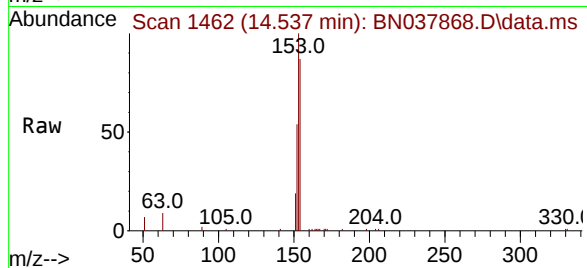




#17
Acenaphthene
Concen: 0.406 ng
RT: 14.537 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

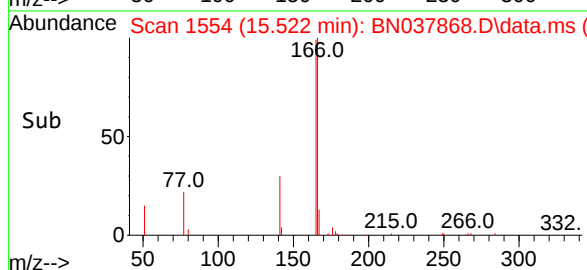
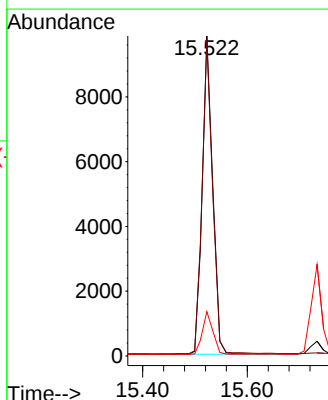
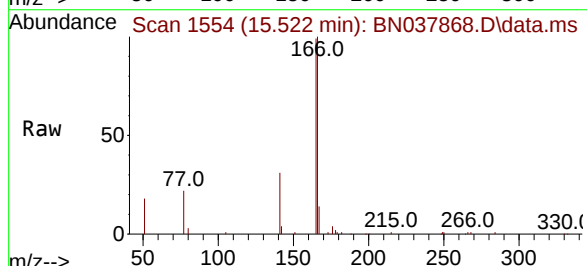
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

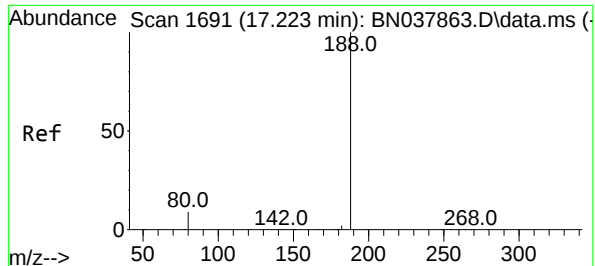
Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.6	90.5	135.7
152	63.5	51.8	77.8



#18
Fluorene
Concen: 0.404 ng
RT: 15.522 min Scan# 1554
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	95.9	79.0	118.4
167	13.7	10.6	16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

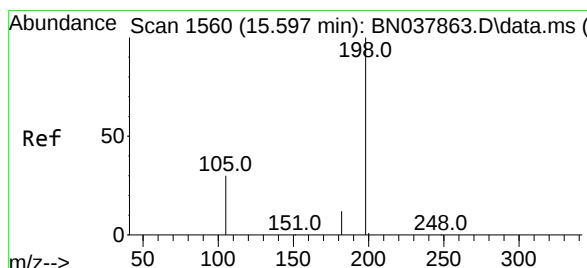
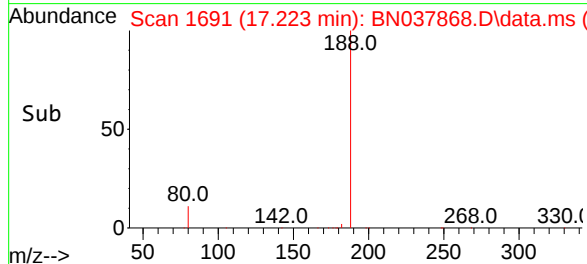
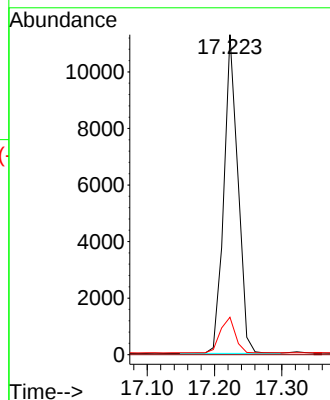
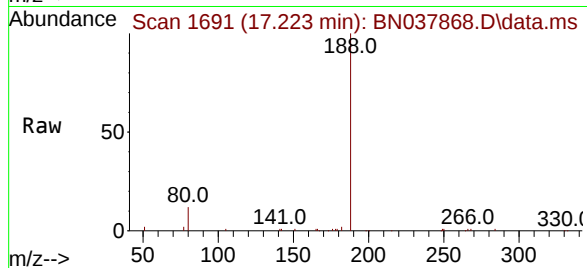
Tgt Ion:188 Resp: 16279

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.418 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

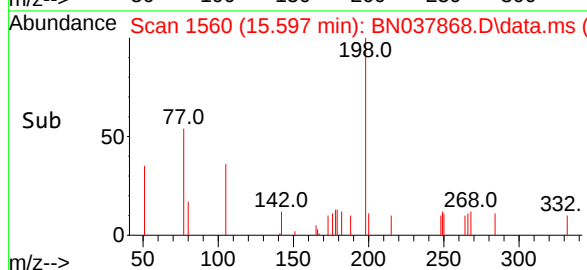
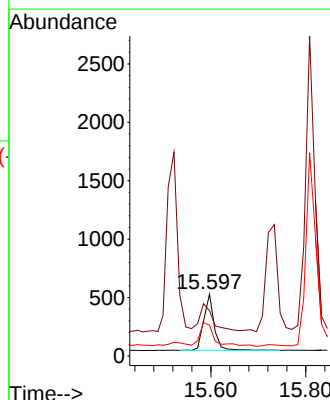
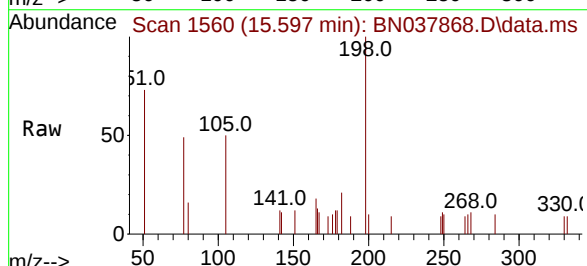
Tgt Ion:198 Resp: 737

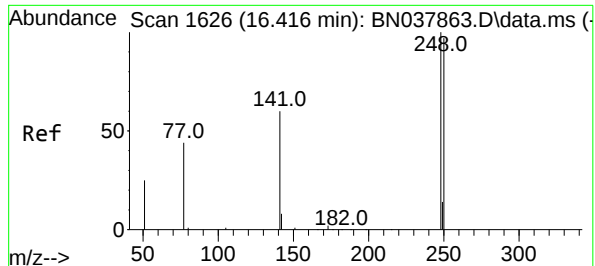
Ion Ratio Lower Upper

198 100

51 73.3 59.1 88.7

105 49.9 41.3 61.9

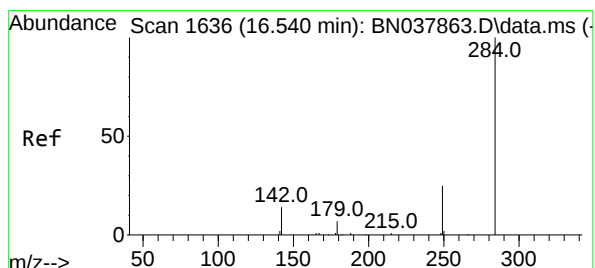
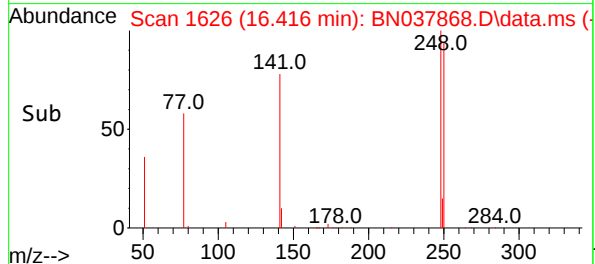
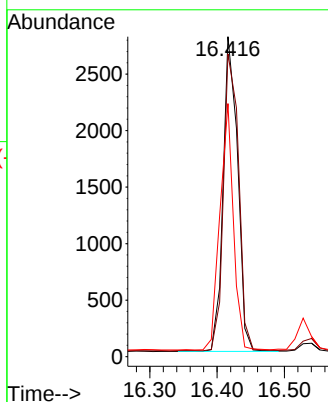
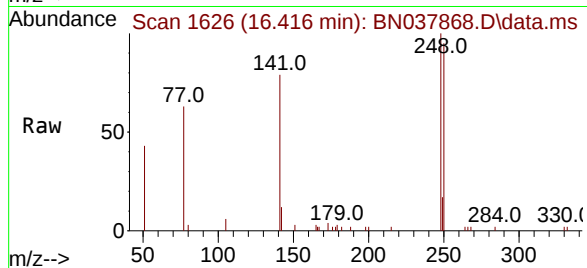




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.416 min Scan# 1626
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

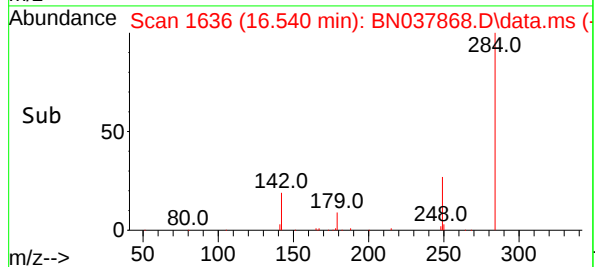
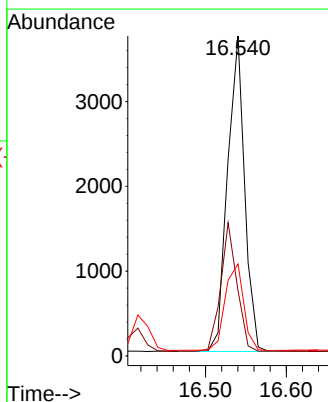
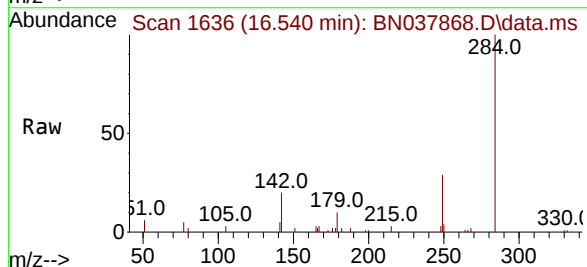
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

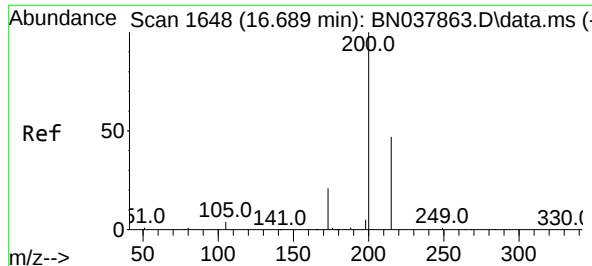
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.6	77.6	116.4
141	79.1	48.8	73.2



#22
Hexachlorobenzene
Concen: 0.424 ng
RT: 16.540 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	38.9	30.9	46.3
249	30.0	23.9	35.9





#23

Atrazine

Concen: 0.396 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

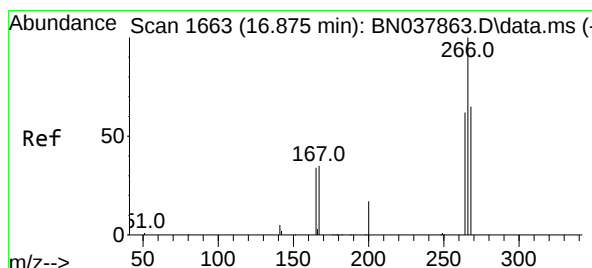
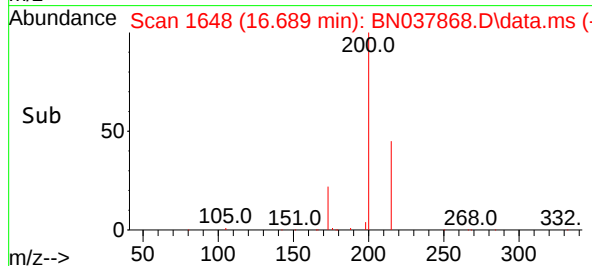
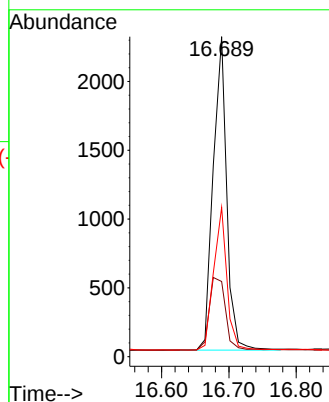
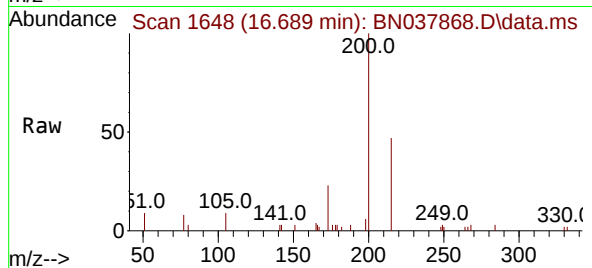
Tgt Ion:200 Resp: 3196

Ion Ratio Lower Upper

200 100

173 23.5 18.3 27.5

215 46.6 38.6 58.0



#24

Pentachlorophenol

Concen: 0.316 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

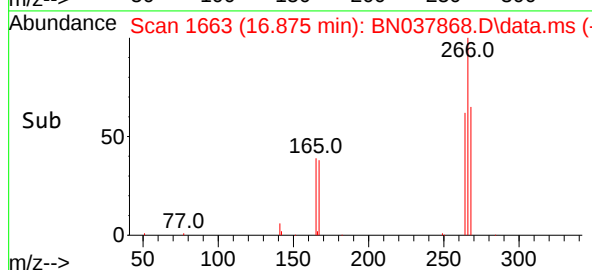
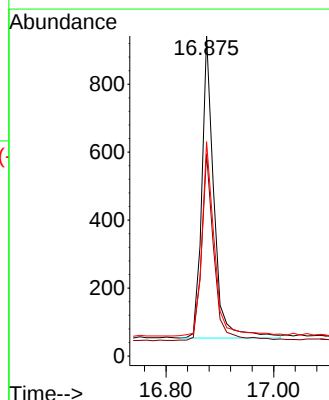
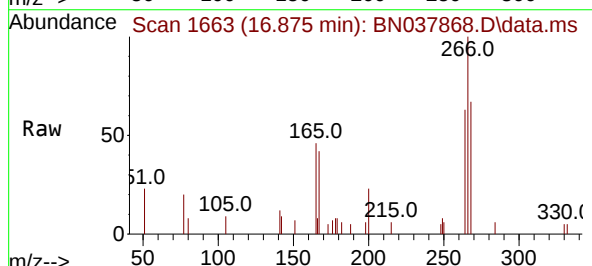
Tgt Ion:266 Resp: 1396

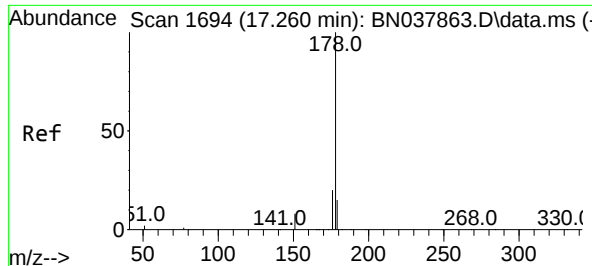
Ion Ratio Lower Upper

266 100

264 63.8 50.9 76.3

268 66.0 54.3 81.5

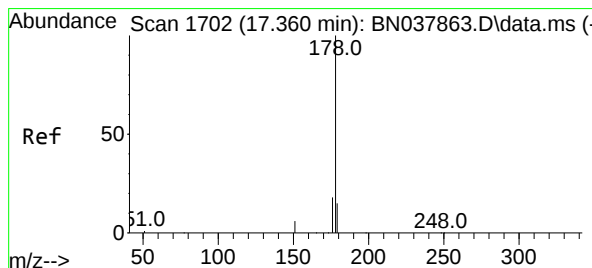
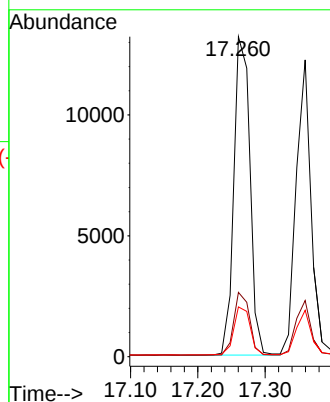
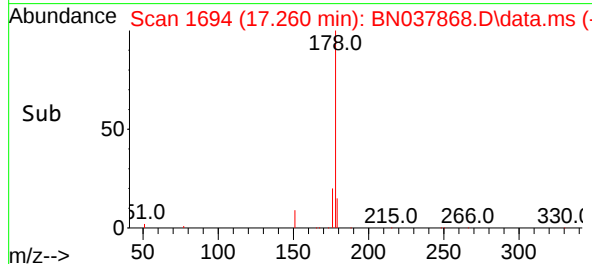
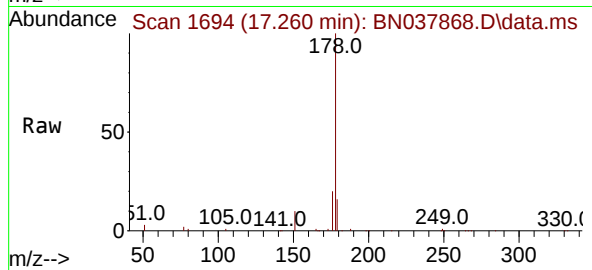




#25
Phenanthrene
Concen: 0.411 ng
RT: 17.260 min Scan# 1694
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

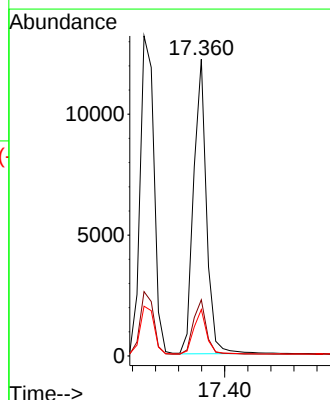
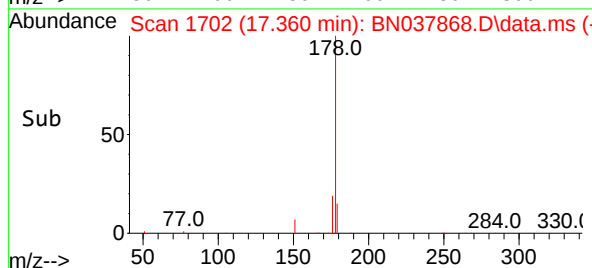
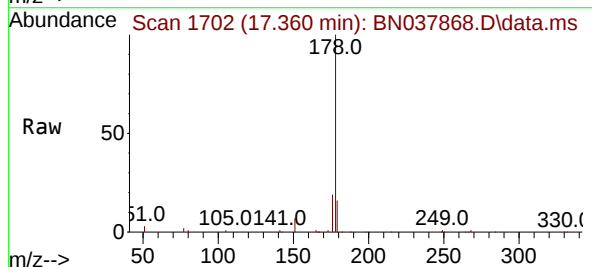
Instrument :
BNA_N
ClientSampleId :
ICVBN092325

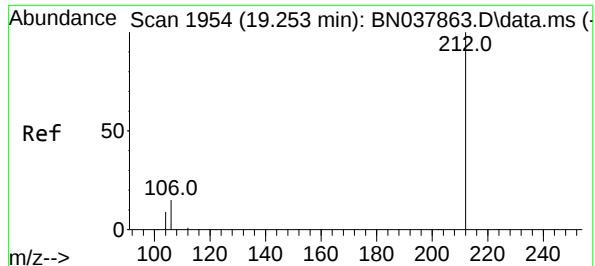
Tgt Ion:178 Resp: 22020
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.408 ng
RT: 17.360 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

Tgt Ion:178 Resp: 18967
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.4
179 15.0 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.257 min Scan# 1955

Delta R.T. 0.005 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

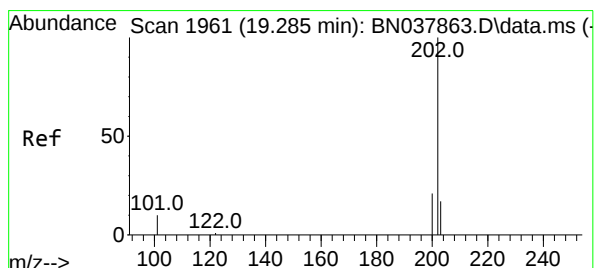
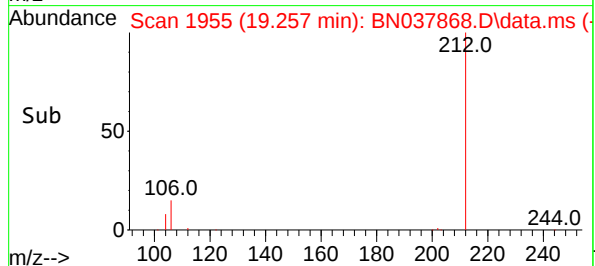
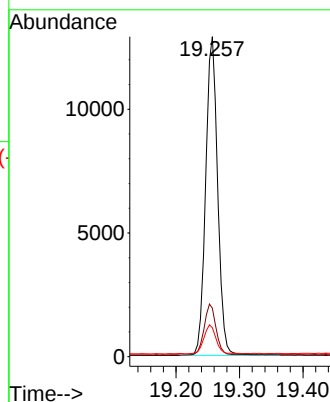
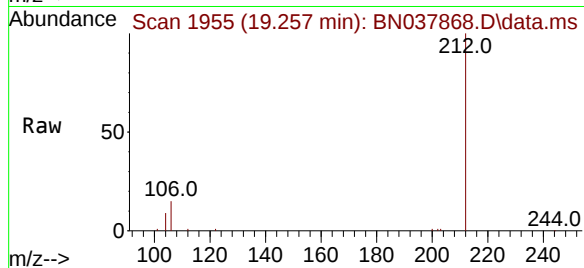
Tgt Ion:212 Resp: 16910

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

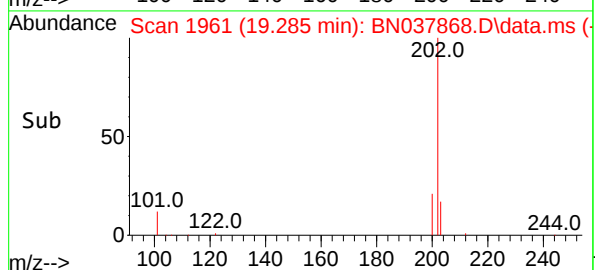
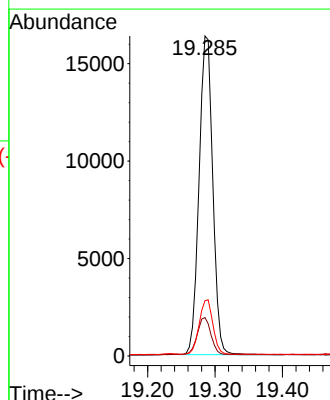
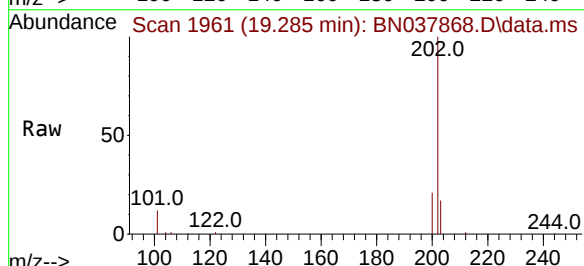
Tgt Ion:202 Resp: 23044

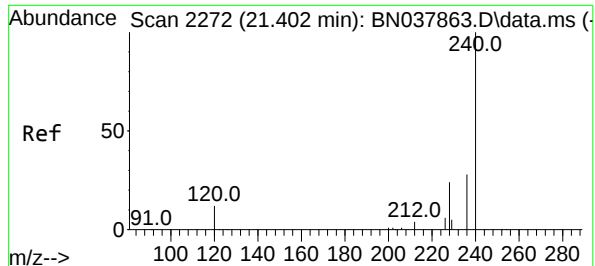
Ion Ratio Lower Upper

202 100

101 12.0 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

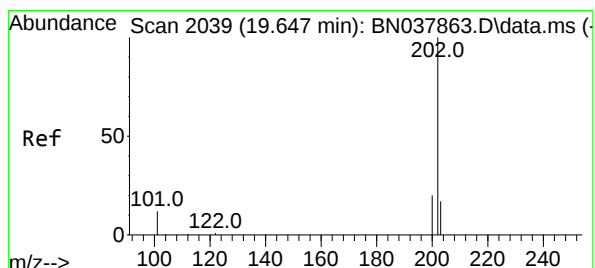
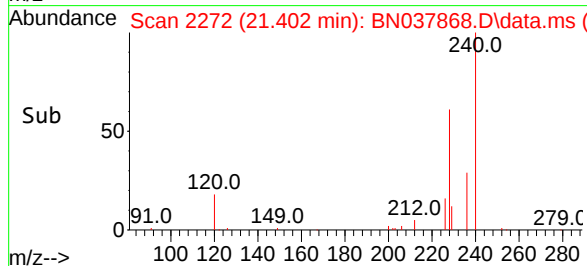
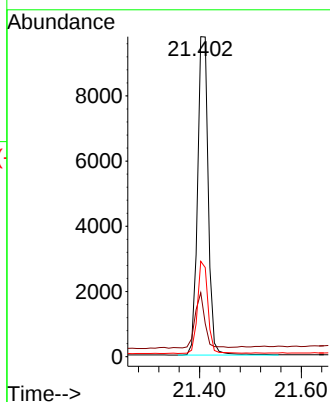
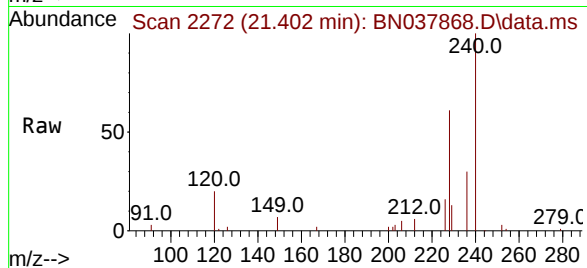
Tgt Ion:240 Resp: 14204

Ion Ratio Lower Upper

240 100

120 20.0 11.4 17.2#

236 29.8 23.0 34.6



#30

Pyrene

Concen: 0.402 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

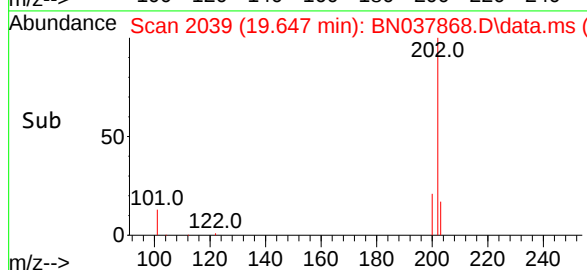
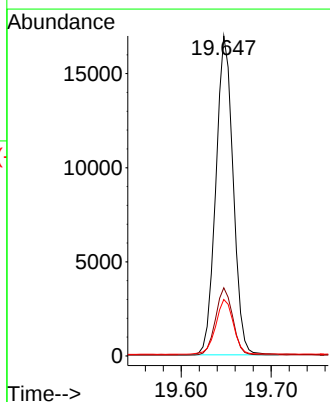
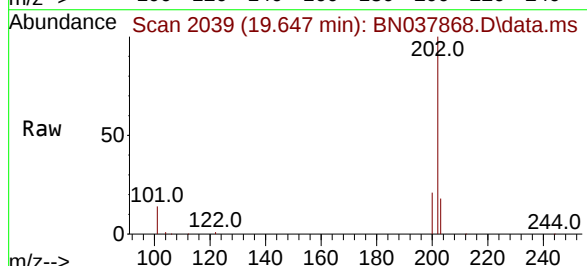
Tgt Ion:202 Resp: 22563

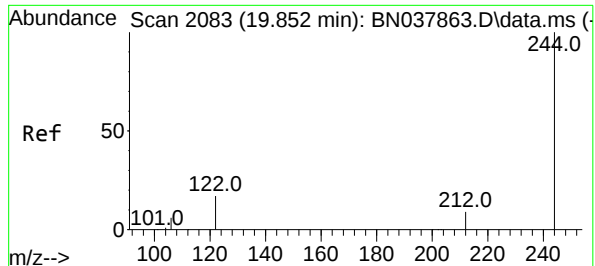
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

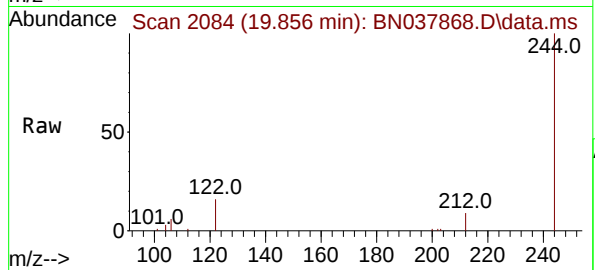
203 17.7 14.2 21.4



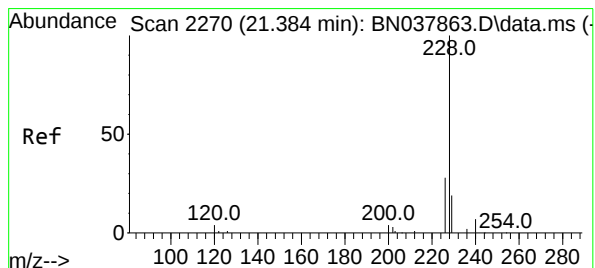
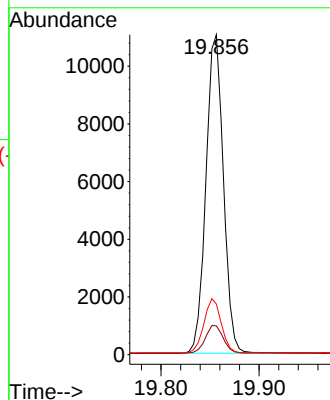
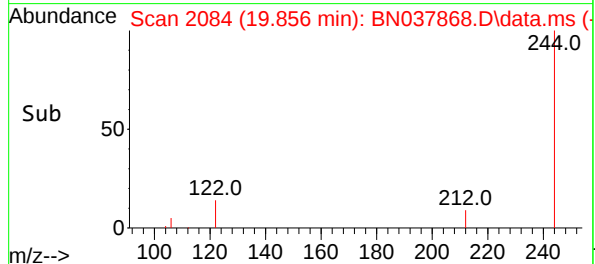


#31
Terphenyl-d14
Concen: 0.482 ng
RT: 19.856 min Scan# 2084
Delta R.T. 0.005 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28

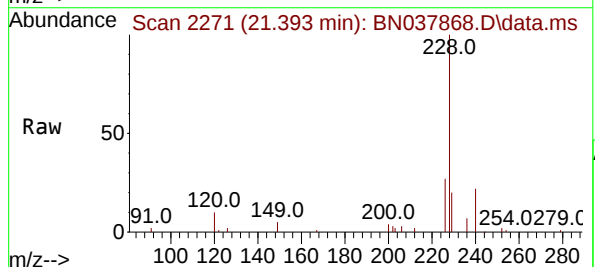
Instrument :
BNA_N
ClientSampleId :
ICVBN092325



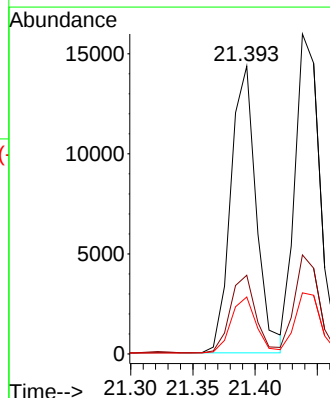
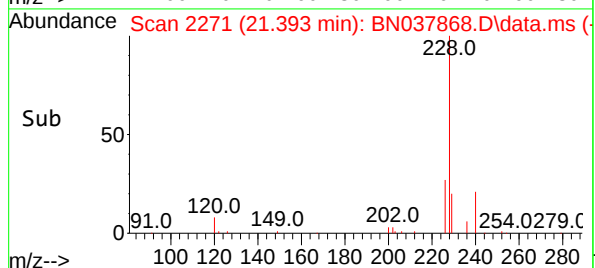
Tgt Ion:244 Resp: 13646
Ion Ratio Lower Upper
244 100
212 9.0 7.6 11.4
122 15.9 13.9 20.9

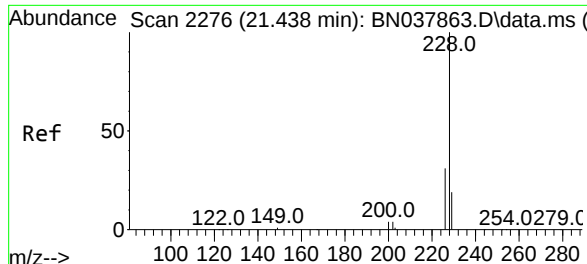


#32
Benzo(a)anthracene
Concen: 0.411 ng
RT: 21.393 min Scan# 2271
Delta R.T. 0.009 min
Lab File: BN037868.D
Acq: 23 Sep 2025 16:28



Tgt Ion:228 Resp: 20398
Ion Ratio Lower Upper
228 100
226 27.3 22.6 33.8
229 19.8 15.6 23.4





#33

Chrysene

Concen: 0.414 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

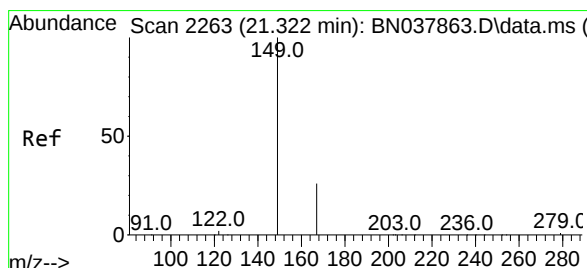
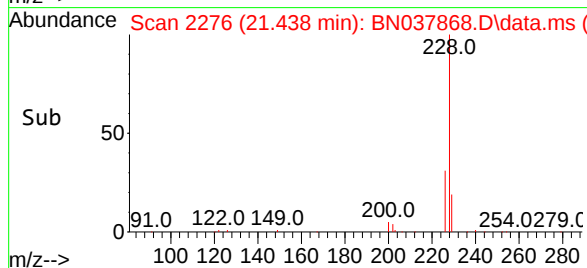
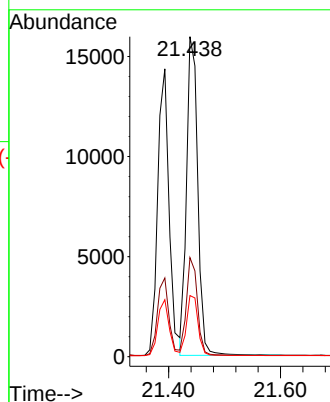
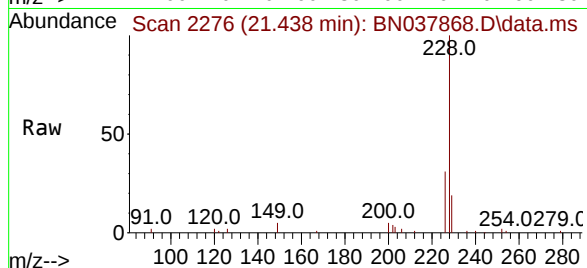
Tgt Ion:228 Resp: 22204

Ion Ratio Lower Upper

228 100

226 31.0 24.6 37.0

229 19.1 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.404 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

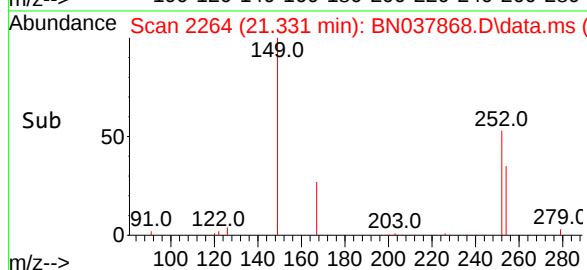
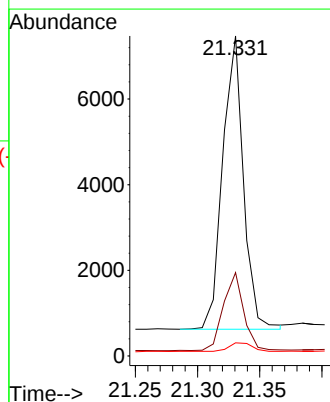
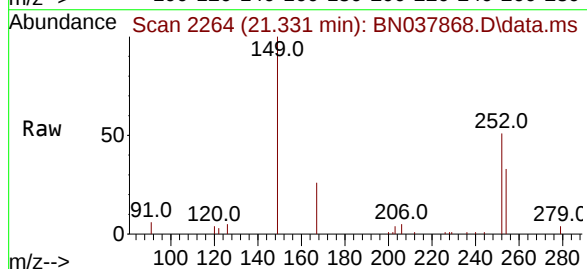
Tgt Ion:149 Resp: 7939

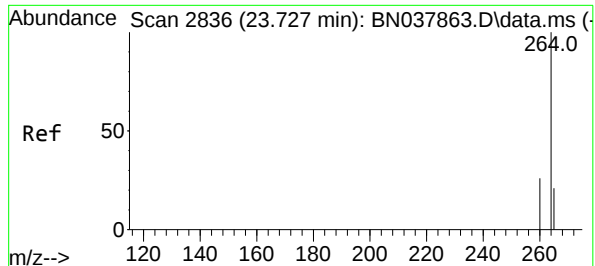
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

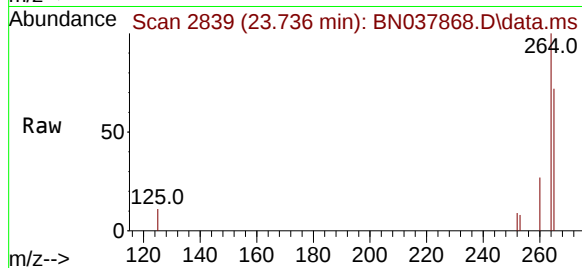
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



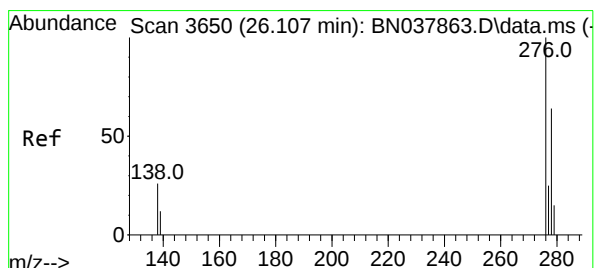
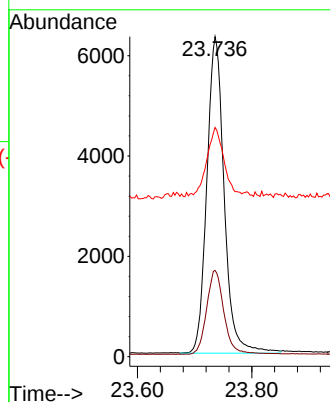
Tgt Ion:264 Resp: 13265

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 71.6 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

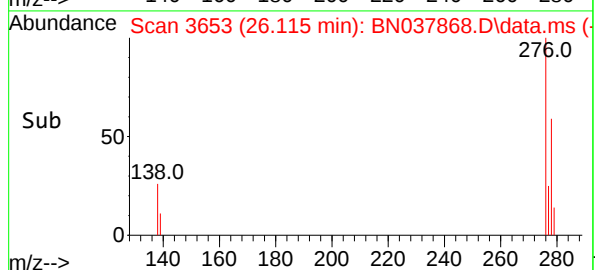
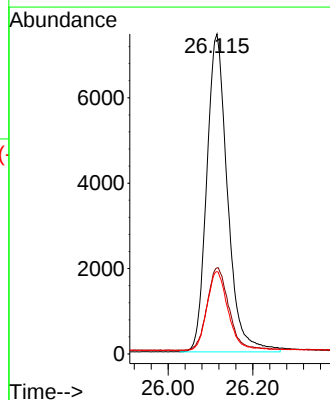
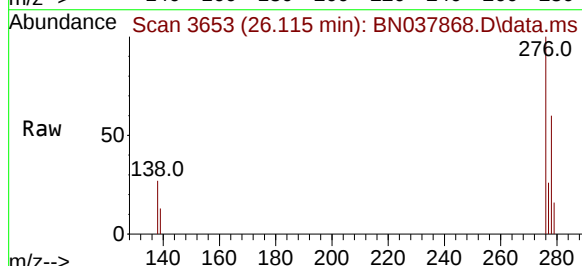
Tgt Ion:276 Resp: 25340

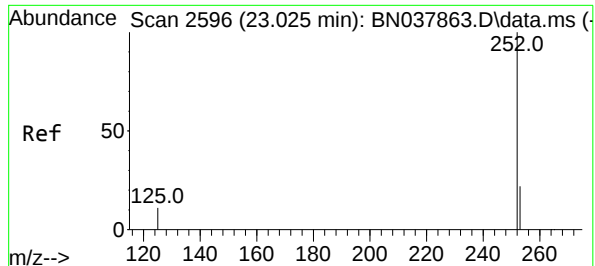
Ion Ratio Lower Upper

276 100

138 27.5 21.4 32.0

277 25.0 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.388 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037868.D

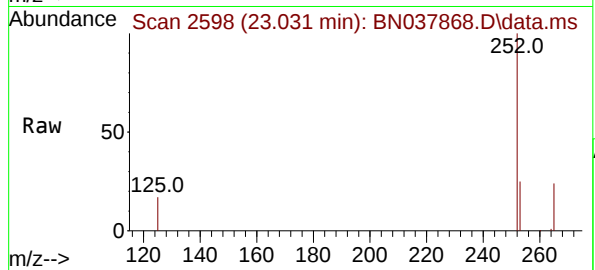
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



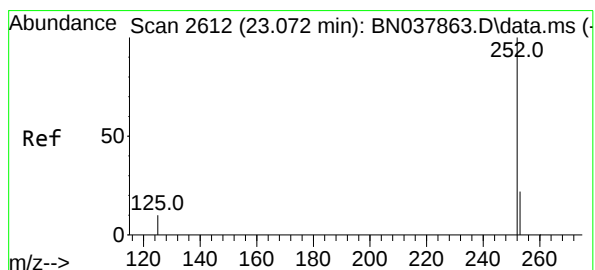
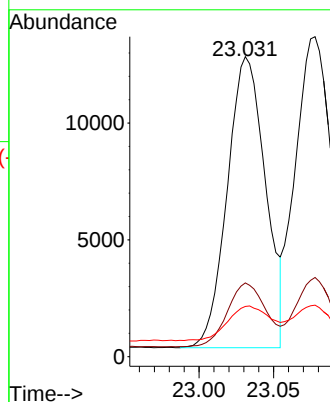
Tgt Ion:252 Resp: 22193

Ion Ratio Lower Upper

252 100

253 24.6 19.4 29.0

125 16.8 13.0 19.4



#38

Benzo(k)fluoranthene

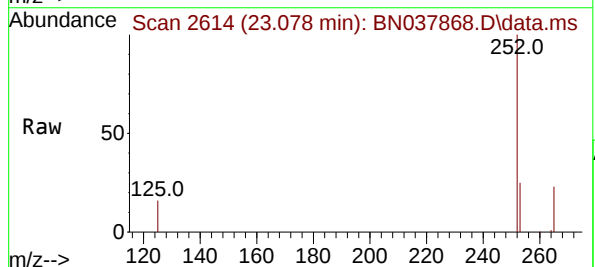
Concen: 0.415 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28



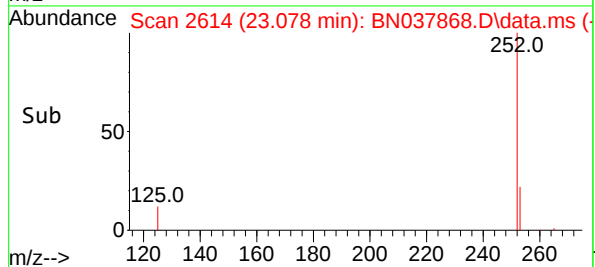
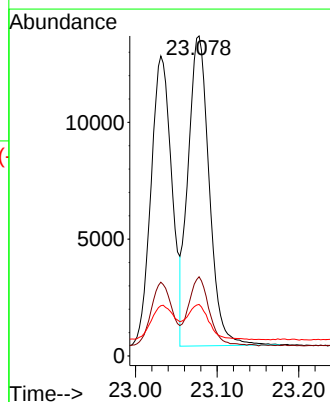
Tgt Ion:252 Resp: 23886

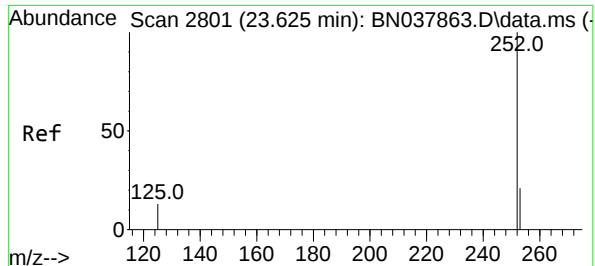
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 16.1 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.422 ng

RT: 23.633 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325

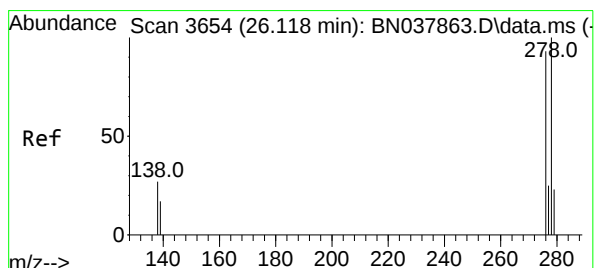
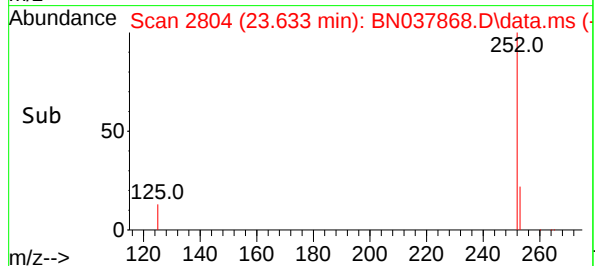
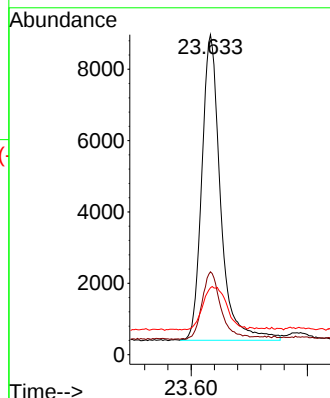
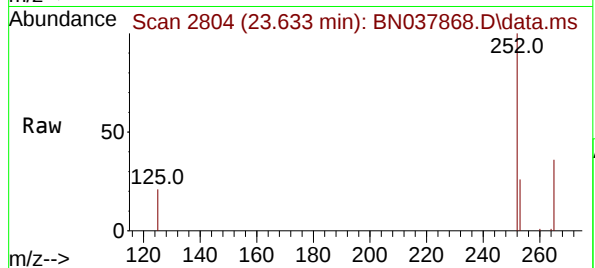
Tgt Ion:252 Resp: 19091

Ion Ratio Lower Upper

252 100

253 25.9 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.411 ng

RT: 26.130 min Scan# 3658

Delta R.T. 0.012 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

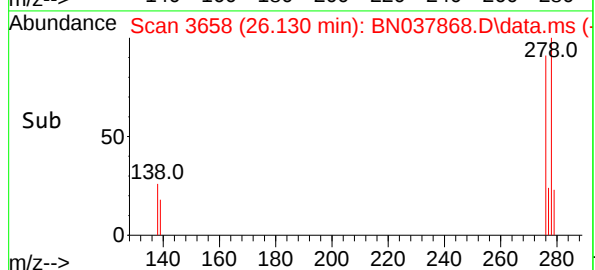
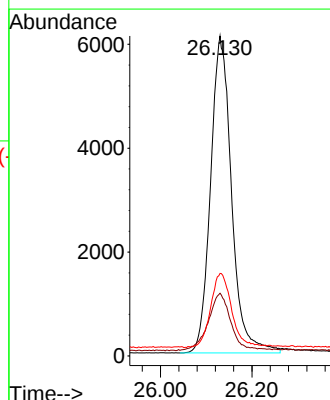
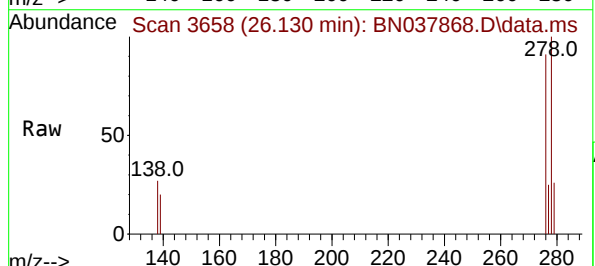
Tgt Ion:278 Resp: 19441

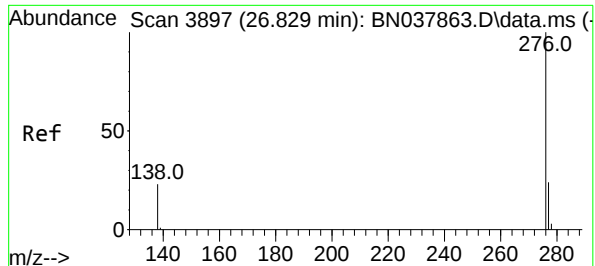
Ion Ratio Lower Upper

278 100

139 19.6 15.4 23.2

279 25.8 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037868.D

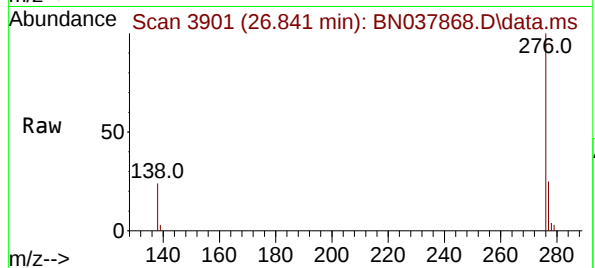
Acq: 23 Sep 2025 16:28

Instrument :

BNA_N

ClientSampleId :

ICVBN092325



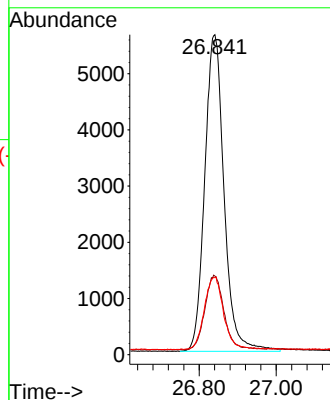
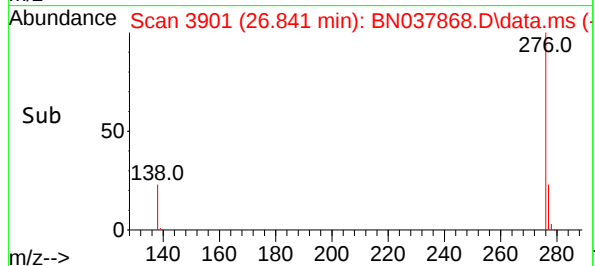
Tgt Ion:276 Resp: 19570

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.4

138 24.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	1,4-Dioxane	0.406	0.484	-19.2	118	0.00
3	n-Nitrosodimethylamine	0.540	0.551	-2.0	106	0.00
4 S	2-Fluorophenol	0.913	0.898	1.6	105	0.00
5 S	Phenol-d6	1.199	1.144	4.6	102	0.00
6	bis(2-Chloroethyl)ether	1.113	1.225	-10.1	113	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8 S	Nitrobenzene-d5	0.305	0.337	-10.5	119	0.00
9	Naphthalene	1.102	1.138	-3.3	111	0.01
10	Hexachlorobutadiene	0.188	0.201	-6.9	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.556	0.587	-5.6	121	0.00
12	2-Methylnaphthalene	0.720	0.675	6.2	103	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.152	0.131	13.8	99	0.00
15 S	2-Fluorobiphenyl	1.638	1.984	-21.1	130	0.01
16	Acenaphthylene	1.816	1.984	-9.3	122	0.00
17	Acenaphthene	1.294	1.312	-1.4	112	0.00
18	Fluorene	1.565	1.581	-1.0	111	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.057	0.045	21.1	106	0.00
21	4-Bromophenyl-phenylether	0.261	0.255	2.3	107	0.00
22	Hexachlorobenzene	0.316	0.335	-6.0	112	0.00
23	Atrazine	0.199	0.196	1.5	117	0.00
24	Pentachlorophenol	0.108	0.086	20.4	95	0.00
25	Phenanthrene	1.316	1.353	-2.8	112	0.00
26	Anthracene	1.142	1.165	-2.0	116	0.00
27 SURR	Fluoranthene-d10	1.006	1.039	-3.3	120	0.00
28	Fluoranthene	1.450	1.416	2.3	110	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	105	0.00
30	Pyrene	1.579	1.588	-0.6	109	0.00
31 S	Terphenyl-d14	0.797	0.961	-20.6	133	0.00
32	Benzo(a)anthracene	1.398	1.436	-2.7	116	0.00
33	Chrysene	1.512	1.563	-3.4	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.559	-1.1	120	0.00
35 I	Perylene-d12	1.000	1.000	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	1.828	1.910	-4.5	121	0.00
37	Benzo(b)fluoranthene	1.725	1.673	3.0	108	0.00
38	Benzo(k)fluoranthene	1.736	1.801	-3.7	119	0.00
39 C	Benzo(a)pyrene	1.364	1.439	-5.5	123	0.00
40	Dibenzo(a,h)anthracene	1.427	1.466	-2.7	119	0.01
41	Benzo(g,h,i)perylene	1.499	1.475	1.6	111	0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
 Data File : BN037868.D
 Acq On : 23 Sep 2025 16:28
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	100	0.00
2	1,4-Dioxane	0.400	0.477	-19.2	118	0.00
3	n-Nitrosodimethylamine	0.400	0.408	-2.0	106	0.00
4 S	2-Fluorophenol	0.400	0.394	1.5	105	0.00
5 S	Phenol-d6	0.400	0.382	4.5	102	0.00
6	bis(2-Chloroethyl)ether	0.400	0.440	-10.0	113	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8 S	Nitrobenzene-d5	0.400	0.442	-10.5	119	0.00
9	Naphthalene	0.400	0.413	-3.2	111	0.01
10	Hexachlorobutadiene	0.400	0.428	-7.0	113	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.423	-5.7	121	0.00
12	2-Methylnaphthalene	0.400	0.375	6.3	103	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	102	0.00
14 S	2,4,6-Tribromophenol	0.400	0.346	13.5	99	0.00
15 S	2-Fluorobiphenyl	0.400	0.485	-21.2	130	0.01
16	Acenaphthylene	0.400	0.437	-9.2	122	0.00
17	Acenaphthene	0.400	0.406	-1.5	112	0.00
18	Fluorene	0.400	0.404	-1.0	111	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	102	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.418	-4.5	106	0.00
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	107	0.00
22	Hexachlorobenzene	0.400	0.424	-6.0	112	0.00
23	Atrazine	0.400	0.396	1.0	117	0.00
24	Pentachlorophenol	0.400	0.316	21.0	95	0.00
25	Phenanthrene	0.400	0.411	-2.7	112	0.00
26	Anthracene	0.400	0.408	-2.0	116	0.00
27 SURR	Fluoranthene-d10	0.400	0.413	-3.2	120	0.00
28	Fluoranthene	0.400	0.391	2.3	110	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	105	0.00
30	Pyrene	0.400	0.402	-0.5	109	0.00
31 S	Terphenyl-d14	0.400	0.482	-20.5	133	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	116	0.00
33	Chrysene	0.400	0.414	-3.5	112	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.404	-1.0	120	0.00
35 I	Perylene-d12	0.400	0.400	0.0	105	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.418	-4.5	121	0.00
37	Benzo(b)fluoranthene	0.400	0.388	3.0	108	0.00
38	Benzo(k)fluoranthene	0.400	0.415	-3.7	119	0.00
39 C	Benzo(a)pyrene	0.400	0.422	-5.5	123	0.00
40	Dibenzo(a,h)anthracene	0.400	0.411	-2.7	119	0.01
41	Benzo(g,h,i)perylene	0.400	0.394	1.5	111	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:	<u>Alliance</u>	Contract:	<u>TETR06</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3213</u>
Instrument ID:	<u>BNA_N</u>	Calibration Date/Time:	<u>10/06/2025 23:32</u>
Lab File ID:	<u>BN038022.D</u>	Init. Calib. Date(s):	<u>09/23/2025 09/23/2025</u>
EPA Sample No.:	<u>SSTDCCC0.4</u>	Init. Calib. Time(s):	<u>12:13 15:51</u>
GC Column:	<u>ZB-GR</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.504		-9.4	20.0
Fluoranthene-d10	1.006	0.813		-19.2	20.0
2-Fluorophenol	0.913	0.764		-16.3	20.0
Phenol-d6	1.199	1.067		-11.0	20.0
Nitrobenzene-d5	0.305	0.290		-4.9	20.0
2-Fluorobiphenyl	1.638	1.579		-3.6	20.0
2,4,6-Tribromophenol	0.152	0.125		-17.8	20.0
Terphenyl-d14	0.797	0.905		13.6	20.0
1,4-Dioxane	0.406	0.372		-8.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
 Data File : BN038022.D
 Acq On : 06 Oct 2025 23:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Manual Integrations**APPROVED**

Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025

Quant Time: Oct 07 01:41:02 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Sep 24 11:00:01 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	8262	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	22968	0.400	ng	-0.02
13) Acenaphthene-d10	14.462	164	12134	0.400	ng	-0.01
19) Phenanthrene-d10	17.210	188	22733	0.400	ng	-0.01
29) Chrysene-d12	21.384	240	13562	0.400	ng	#-0.02
35) Perylene-d12	23.703	264	10530	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.370	112	6312	0.335	ng	-0.01
5) Phenol-d6	6.959	99	8816	0.356	ng	-0.01
8) Nitrobenzene-d5	8.950	82	6668	0.381	ng	-0.02
11) 2-Methylnaphthalene-d10	12.202	152	11565	0.362	ng	-0.02
14) 2,4,6-Tribromophenol	15.944	330	1512	0.329	ng	-0.02
15) 2-Fluorobiphenyl	13.083	172	19165	0.386	ng	-0.01
27) Fluoranthene-d10	19.238	212	18490	0.323	ng	-0.01
31) Terphenyl-d14	19.838	244	12280	0.455	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.290	88	3071	0.366	ng	98
3) n-Nitrosodimethylamine	3.593	42	3991	0.358	ng	# 89
6) bis(2-Chloroethyl)ether	7.226	93	8808	0.383	ng	98
9) Naphthalene	10.658	128	24498	0.387	ng	99
10) Hexachlorobutadiene	10.957	225	4360	0.404	ng	# 99
12) 2-Methylnaphthalene	12.273	142	15485	0.375	ng	98
16) Acenaphthylene	14.174	152	21062	0.382	ng	100
17) Acenaphthene	14.516	154	14495	0.369	ng	98
18) Fluorene	15.510	166	16302	0.343	ng	99
20) 4,6-Dinitro-2-methylph...	15.584	198	897	0.375	ng	# 88
21) 4-Bromophenyl-phenylether	16.404	248	5704	0.385	ng	# 87
22) Hexachlorobenzene	16.515	284	7267	0.405	ng	98
23) Atrazine	16.664	200	3424	0.304	ng	# 91
24) Pentachlorophenol	16.863	266	5132	0.833	ng	97
25) Phenanthrene	17.248	178	28024	0.375	ng	100
26) Anthracene	17.335	178	23199	0.357	ng	100
28) Fluoranthene	19.266	202	27243	0.331	ng	99
30) Pyrene	19.629	202	26066	0.487	ng	100
32) Benzo(a)anthracene	21.366	228	17879	0.377	ng	100
33) Chrysene	21.420	228	20217	0.394	ng	100
34) Bis(2-ethylhexyl)phtha...	21.304	149	5945	0.317	ng	100
36) Indeno(1,2,3-cd)pyrene	26.069	276	19936	0.414	ng	97
37) Benzo(b)fluoranthene	23.005	252	18682m	0.411	ng	
38) Benzo(k)fluoranthene	23.048	252	17538	0.384	ng	96
39) Benzo(a)pyrene	23.601	252	13760	0.383	ng	# 89
40) Dibenzo(a,h)anthracene	26.083	278	15307	0.407	ng	97
41) Benzo(g,h,i)perylene	26.791	276	16776	0.425	ng	98

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

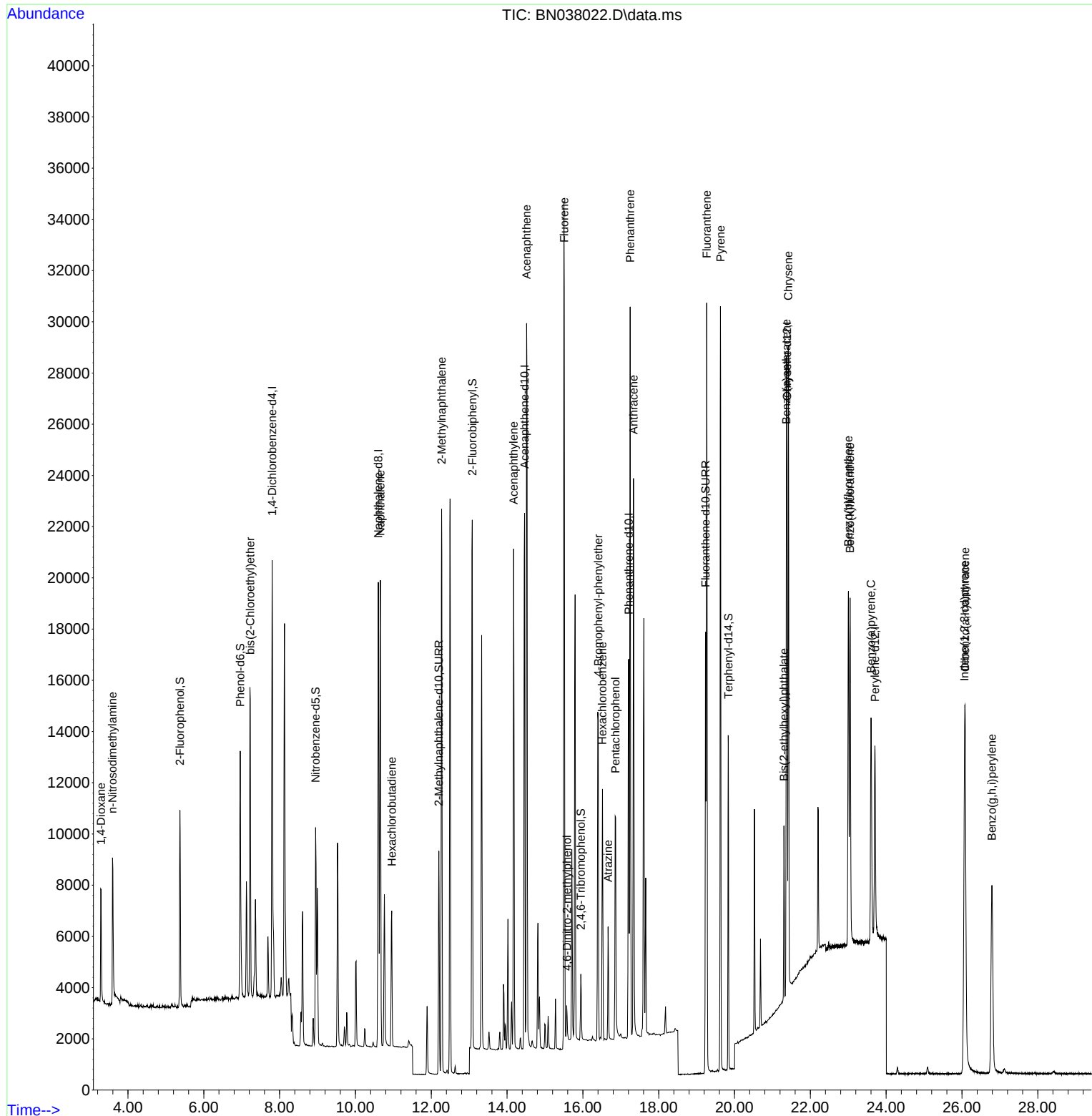
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038022.D
Acq On : 06 Oct 2025 23:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

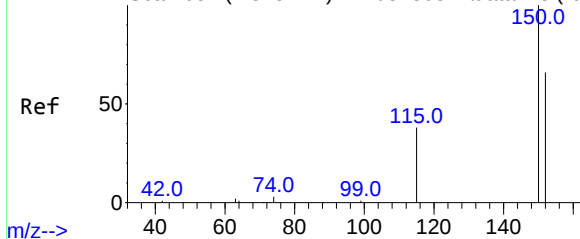
Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025

Quant Time: Oct 07 01:41:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

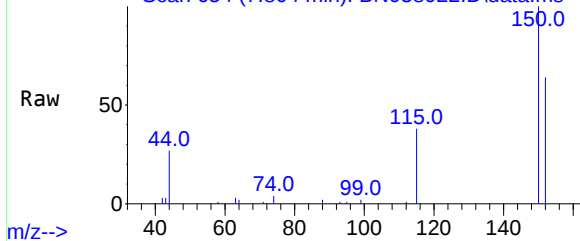
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

m/z--> Abundance Scan 654 (7.804 min): BN038022.D\data.ms



Tgt Ion:152 Resp: 826

Ion Ratio Lower Upper

152 100

150 155.5 121.0 181.4

115 58.7 47.4 71.0

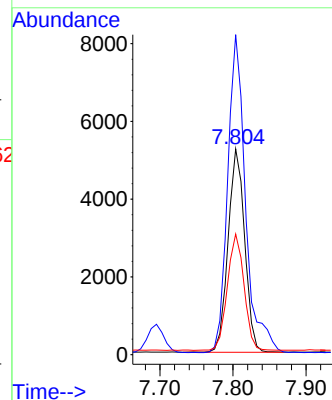
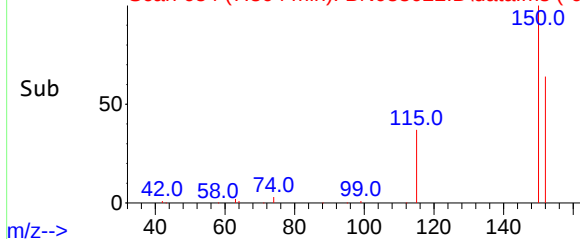
Manual Integrations

APPROVED

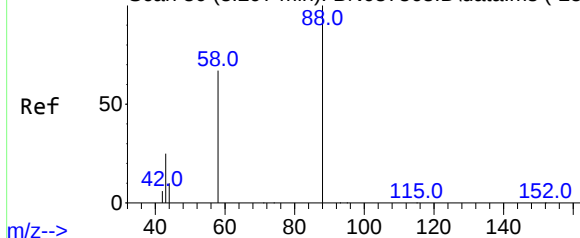
Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025

Abundance Scan 654 (7.804 min): BN038022.D\data.ms (-62



Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



#2

1,4-Dioxane

Concen: 0.366 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Tgt Ion: 88 Resp: 3071

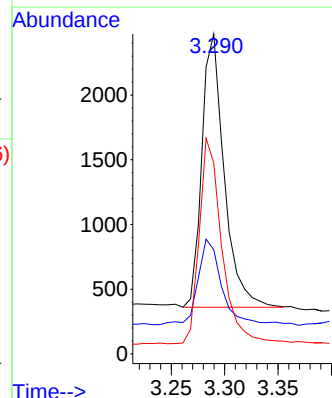
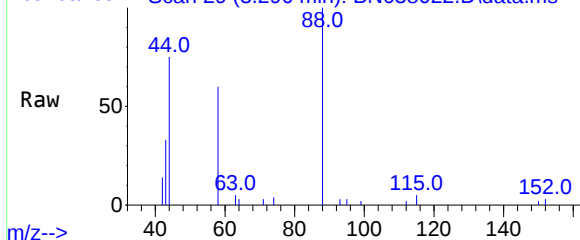
Ion Ratio Lower Upper

88 100

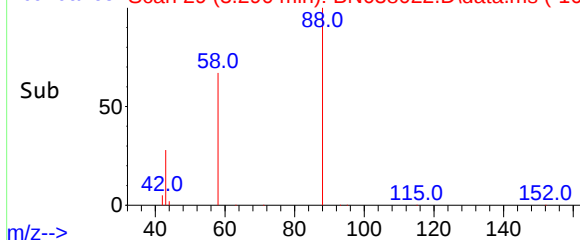
43 33.2 26.6 39.8

58 76.2 58.9 88.3

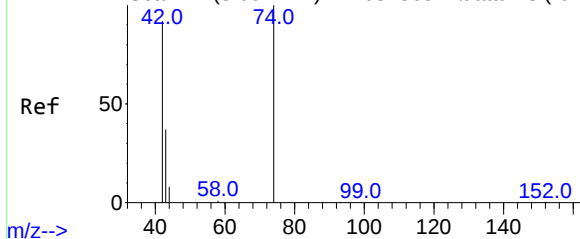
m/z--> Abundance Scan 29 (3.290 min): BN038022.D\data.ms



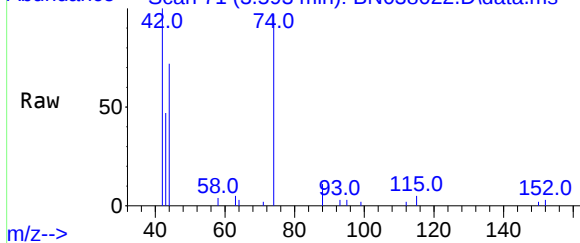
Abundance Scan 29 (3.290 min): BN038022.D\data.ms (-16)



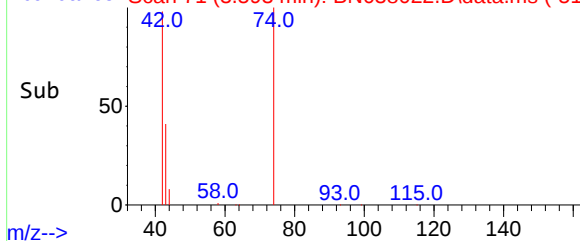
Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



m/z--> Scan 71 (3.593 min): BN038022.D\data.ms



m/z--> Abundance Scan 71 (3.593 min): BN038022.D\data.ms (-51)



m/z-->

#3

n-Nitrosodimethylamine

Concen: 0.358 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 399

Ion Ratio Lower Upper

42 100

74 112.4 93.4 140.0

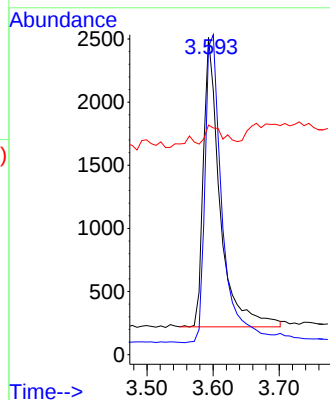
44 6.7 22.2 33.4

Manual Integrations

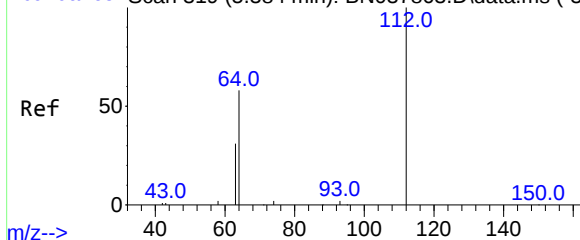
APPROVED

Reviewed By :Rahul Chavli 10/07/2025

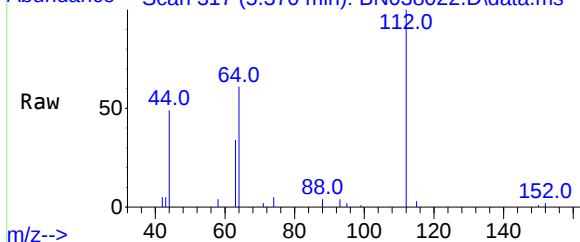
Supervised By :Jagrut Upadhyay 10/07/2025



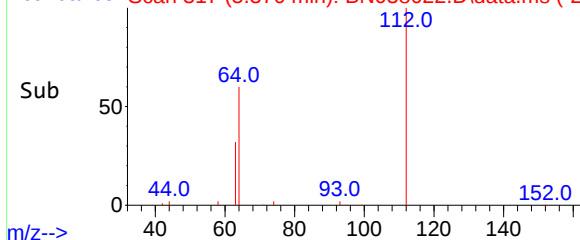
Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



m/z--> Scan 317 (5.370 min): BN038022.D\data.ms



m/z--> Abundance Scan 317 (5.370 min): BN038022.D\data.ms (-29)



m/z-->

#4

2-Fluorophenol

Concen: 0.335 ng

RT: 5.370 min Scan# 317

Delta R.T. -0.015 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

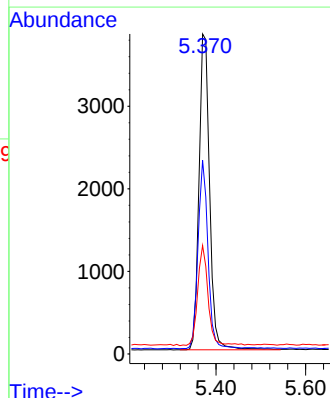
Tgt Ion:112 Resp: 6312

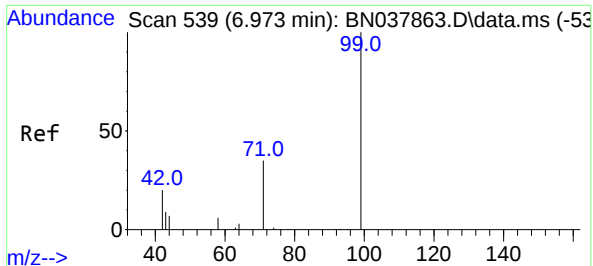
Ion Ratio Lower Upper

112 100

64 55.8 44.6 66.8

63 30.4 24.9 37.3





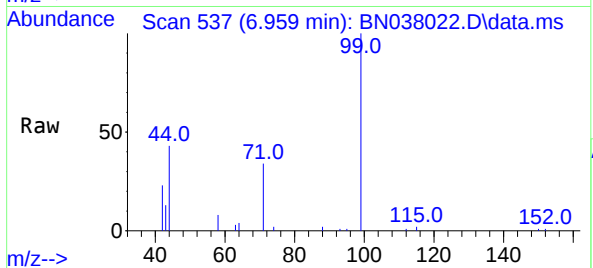
#5
Phenol-d6
Concen: 0.356 ng
RT: 6.959 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

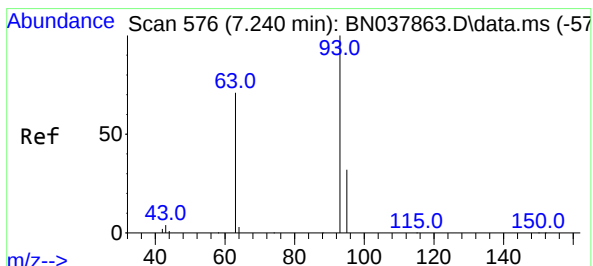
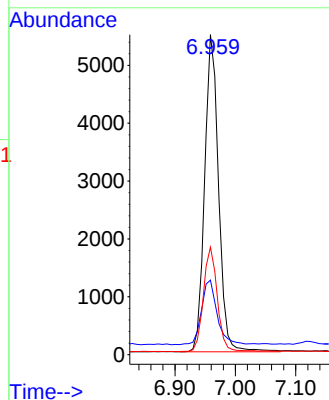
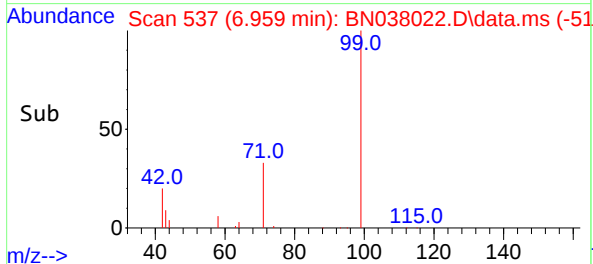


Tgt Ion: 99 Resp: 8810
Ion Ratio Lower Upper
99 100
42 22.9 17.2 25.8
71 33.2 27.3 40.9

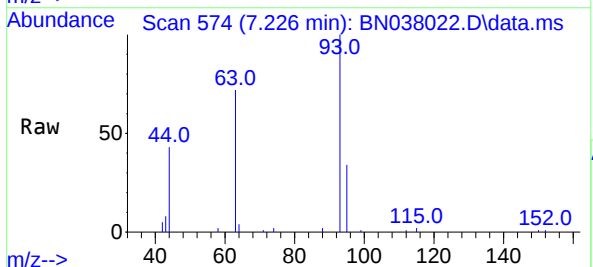
Manual Integrations

APPROVED

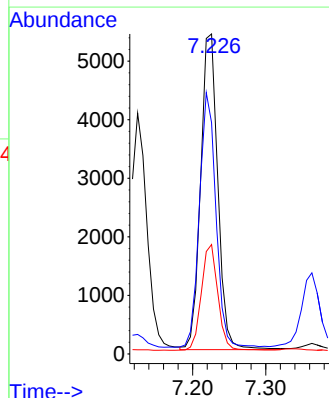
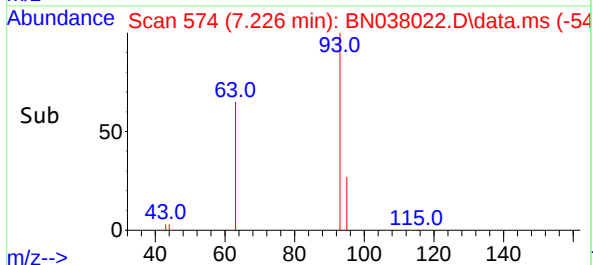
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025

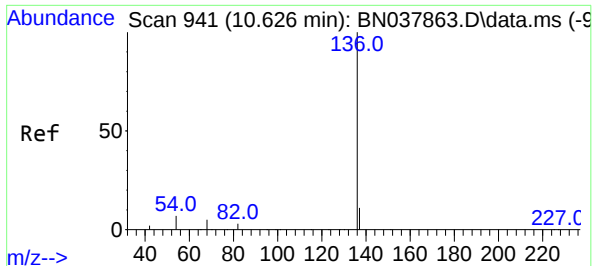


#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.226 min Scan# 574
Delta R.T. -0.015 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32



Tgt Ion: 93 Resp: 8808
Ion Ratio Lower Upper
93 100
63 77.4 60.1 90.1
95 32.2 25.4 38.2





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

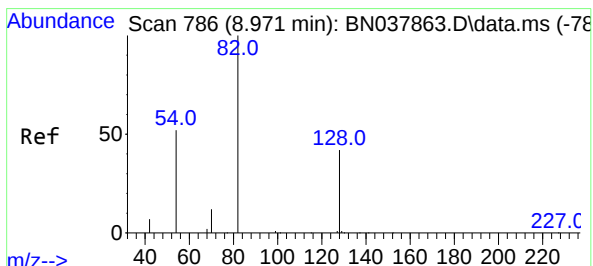
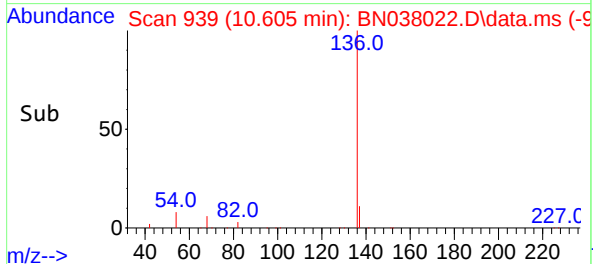
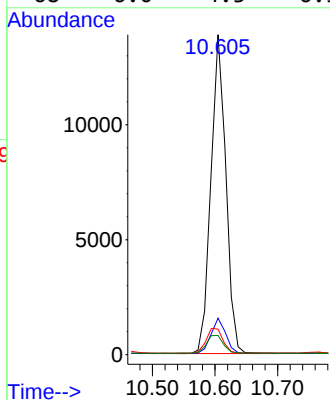
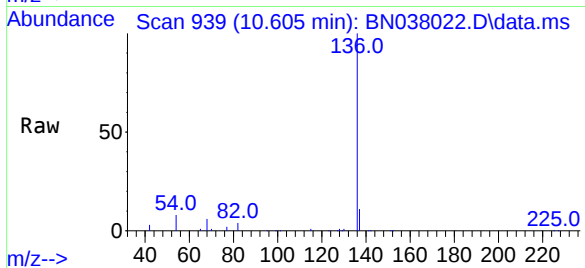
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	8.0	5.8	8.8
68	6.0	4.3	6.5

Manual Integrations

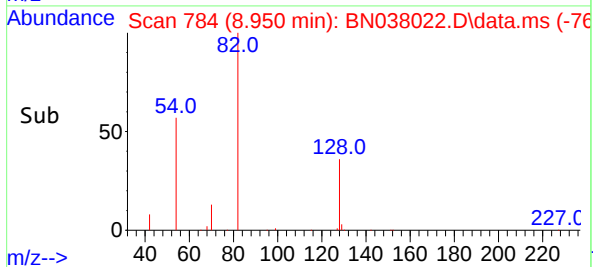
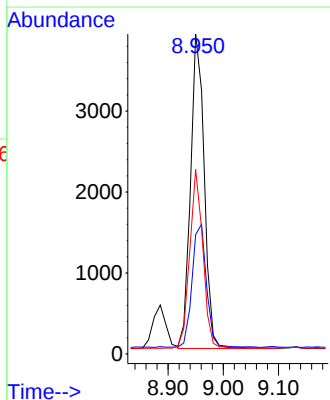
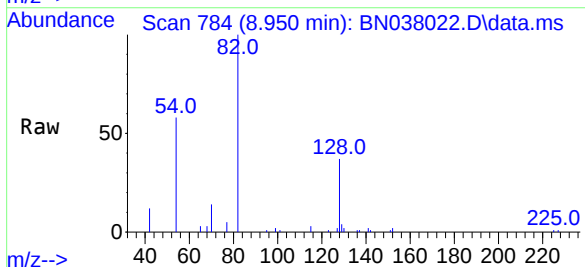
APPROVED

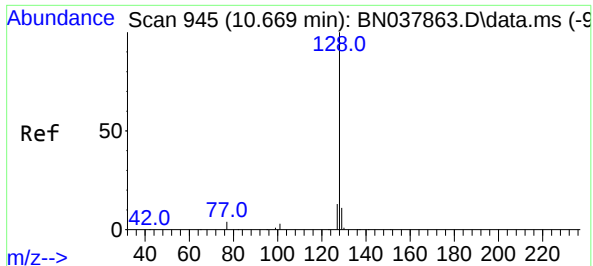
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

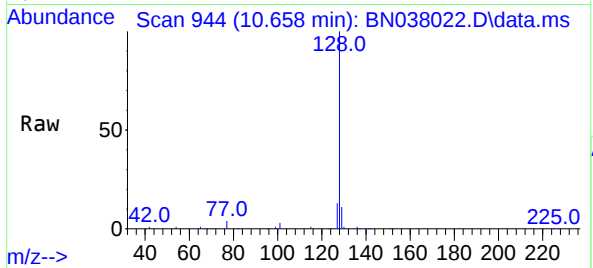
Tgt Ion	Ratio	Lower	Upper
82	100		
128	37.3	34.8	52.2
54	57.7	42.2	63.2





#9
Naphthalene
Concen: 0.387 ng
RT: 10.658 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

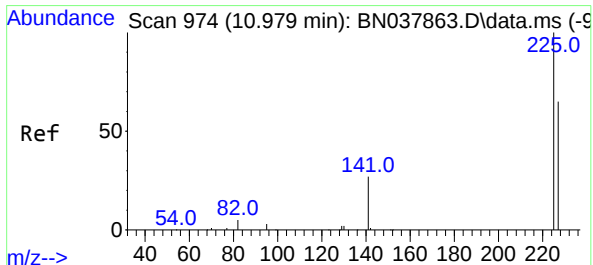
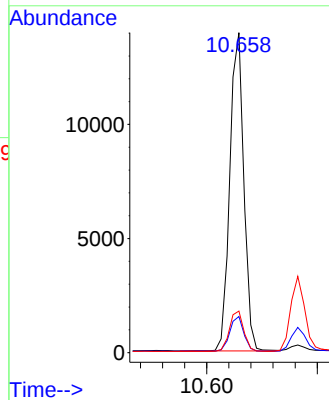
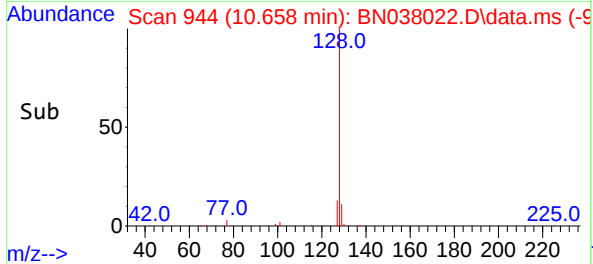
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 24498
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.0 11.0 16.6

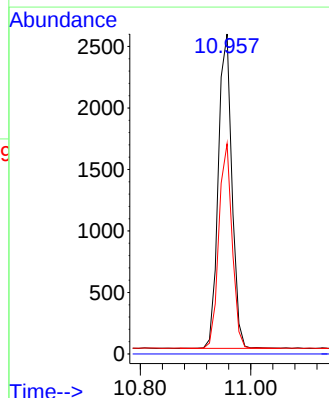
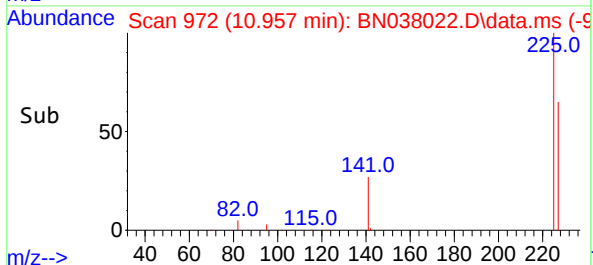
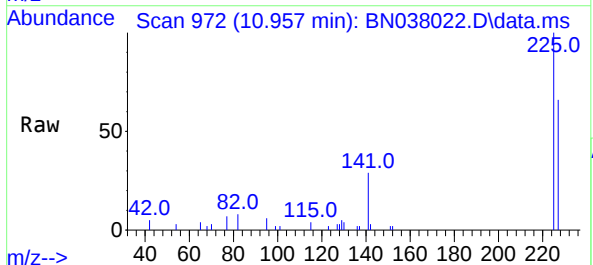
Manual Integrations
APPROVED

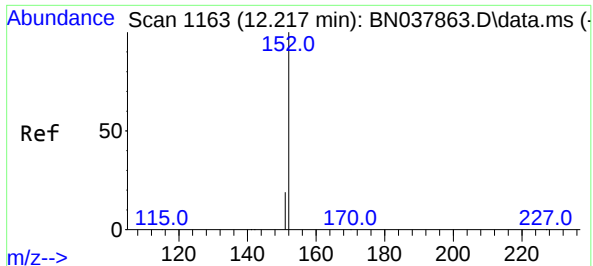
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#10
Hexachlorobutadiene
Concen: 0.404 ng
RT: 10.957 min Scan# 972
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

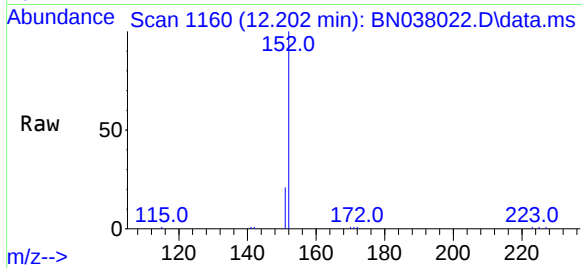
Tgt Ion:225 Resp: 4360
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.4 77.2





#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 12.202 min Scan# 1160
Delta R.T. -0.015 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

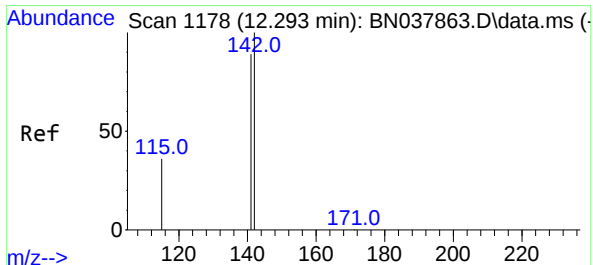
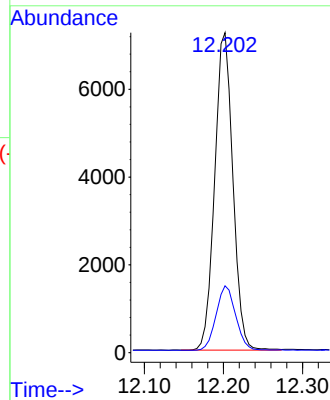
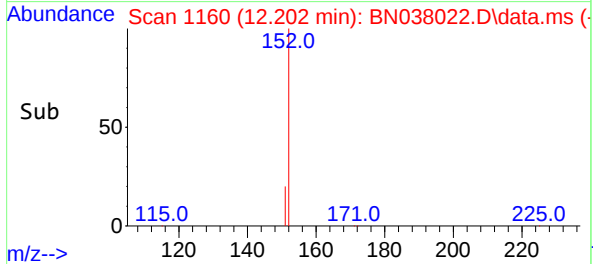
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:152 Resp: 1156
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.2

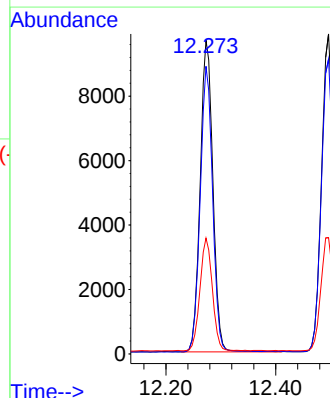
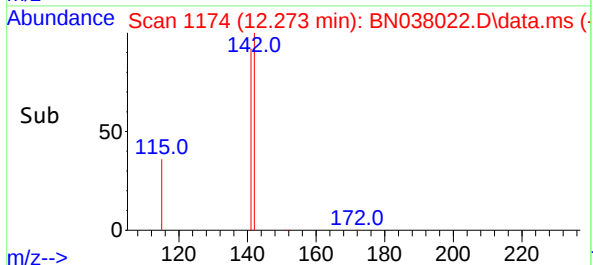
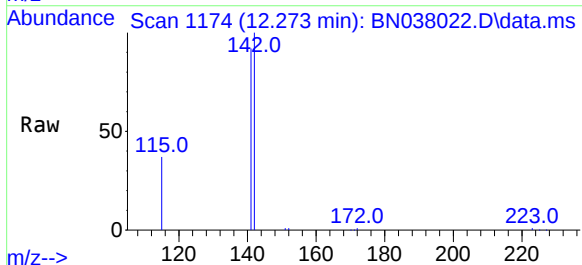
Manual Integrations
APPROVED

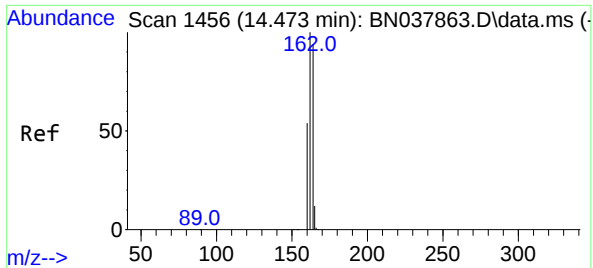
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.273 min Scan# 1174
Delta R.T. -0.021 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

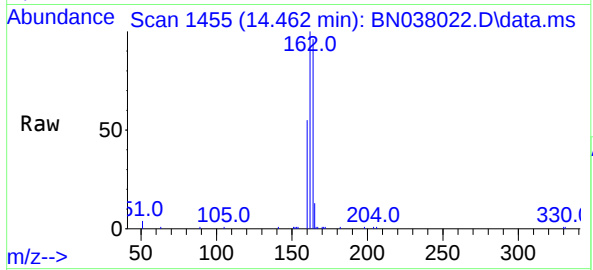
Tgt Ion:142 Resp: 15485
Ion Ratio Lower Upper
142 100
141 91.7 71.2 106.8
115 36.9 29.7 44.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1456
Delta R.T. -0.011 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

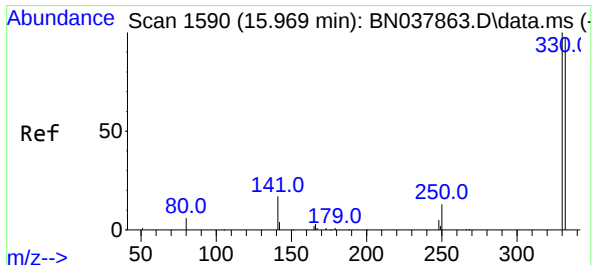
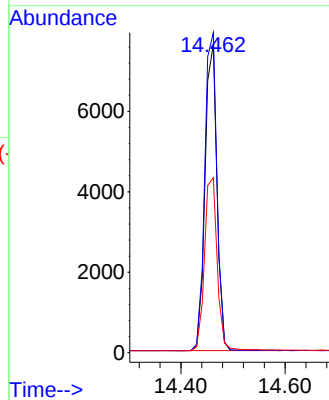
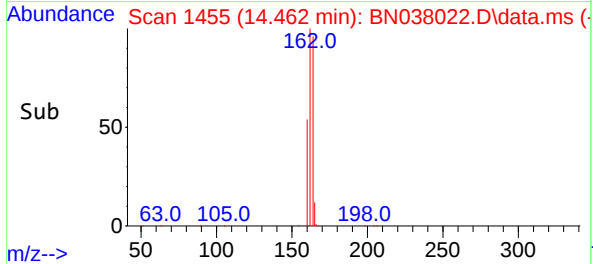
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:164 Resp: 12134
Ion Ratio Lower Upper
164 100
162 103.9 84.8 127.2
160 56.8 46.1 69.1

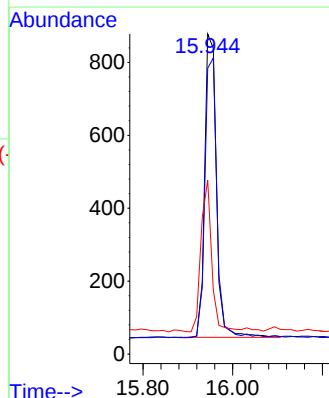
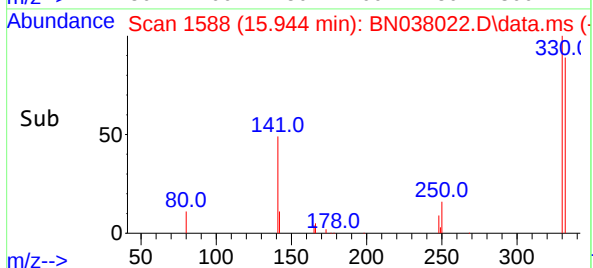
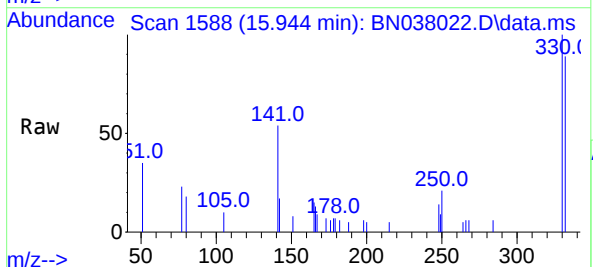
Manual Integrations
APPROVED

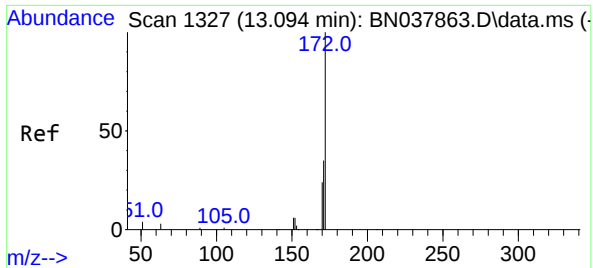
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#14
2,4,6-Tribromophenol
Concen: 0.329 ng
RT: 15.944 min Scan# 1588
Delta R.T. -0.025 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

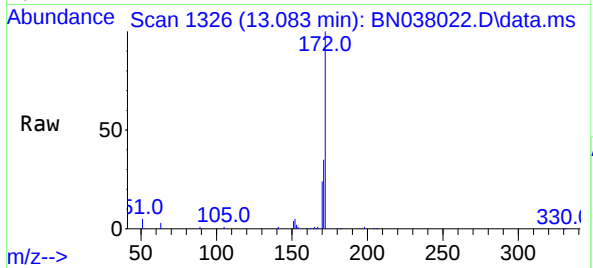
Tgt Ion:330 Resp: 1512
Ion Ratio Lower Upper
330 100
332 94.4 77.2 115.8
141 45.7 37.2 55.8





#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.083 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

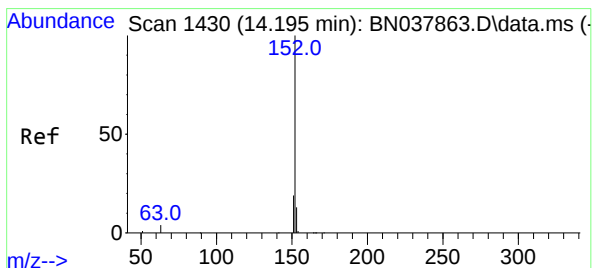
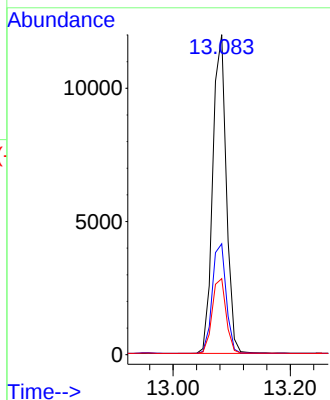
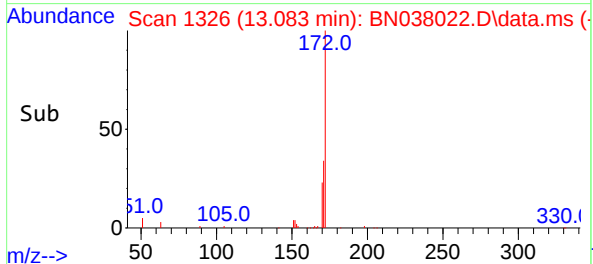
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 1916
Ion Ratio Lower Upper
172 100
171 34.7 28.6 43.0
170 23.7 19.7 29.5

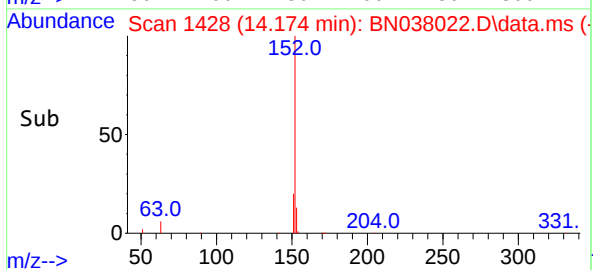
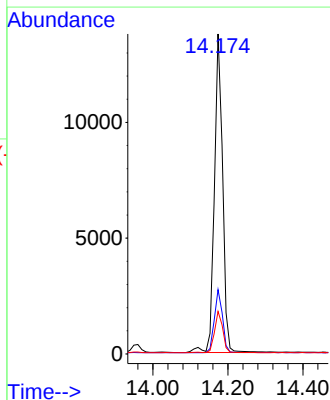
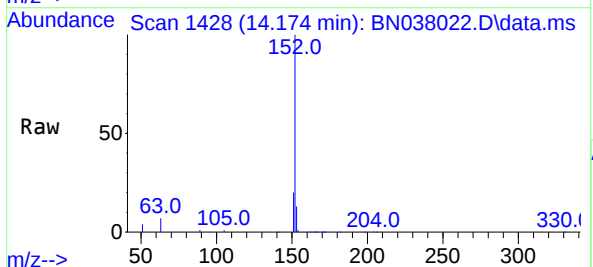
Manual Integrations
APPROVED

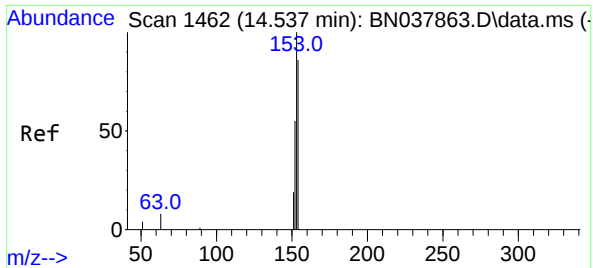
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#16
Acenaphthylene
Concen: 0.382 ng
RT: 14.174 min Scan# 1428
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

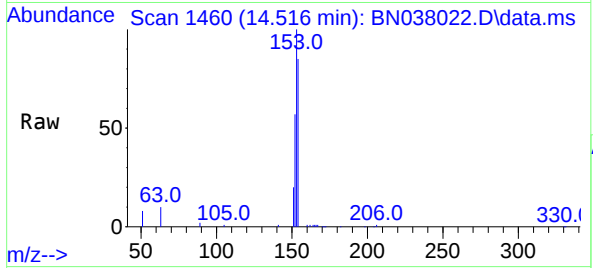
Tgt Ion:152 Resp: 21062
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 13.0 10.5 15.7





#17
Acenaphthene
Concen: 0.369 ng
RT: 14.516 min Scan# 1449
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

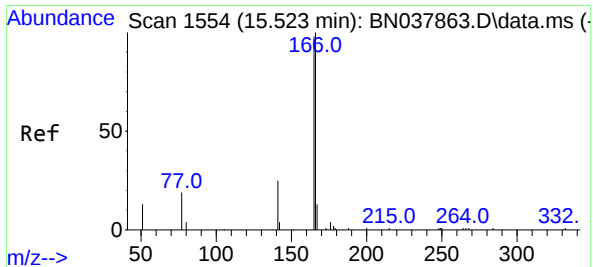
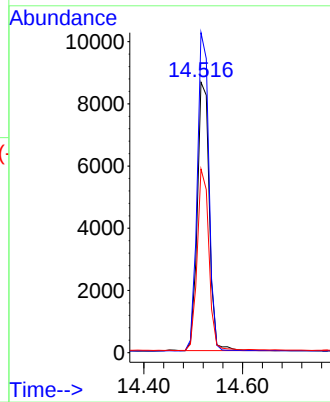
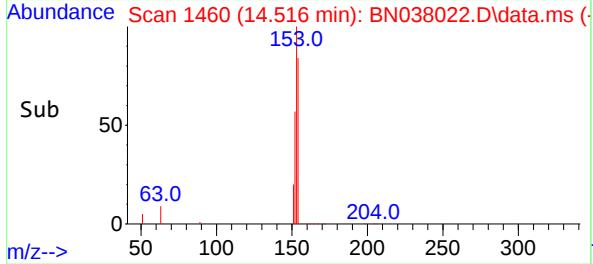
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:154 Resp: 1449
Ion Ratio Lower Upper
154 100
153 115.5 90.5 135.7
152 66.5 51.8 77.8

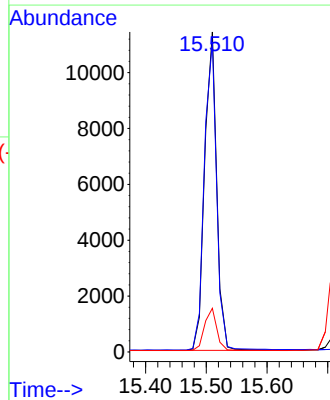
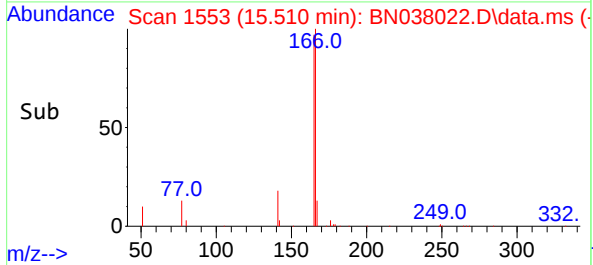
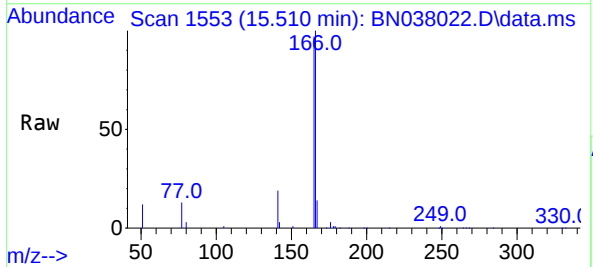
Manual Integrations
APPROVED

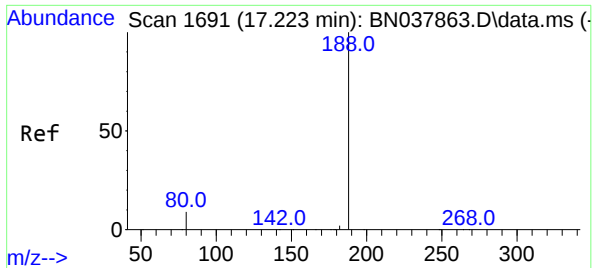
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#18
Fluorene
Concen: 0.343 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

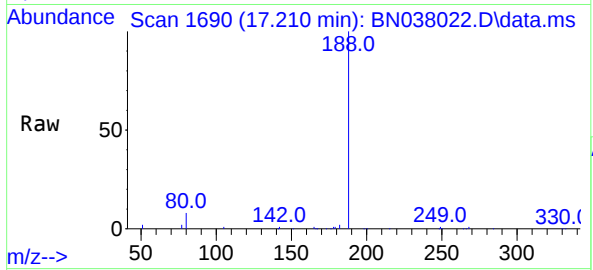
Tgt Ion:166 Resp: 16302
Ion Ratio Lower Upper
166 100
165 99.1 79.0 118.4
167 13.7 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

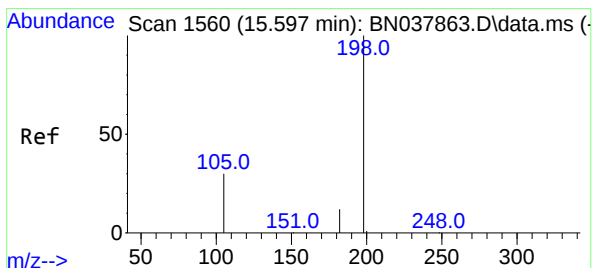
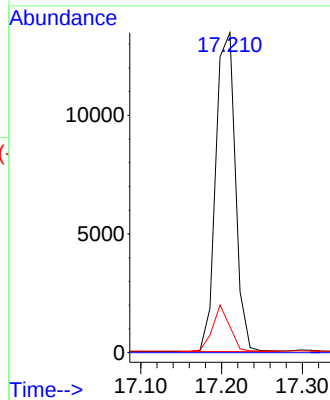
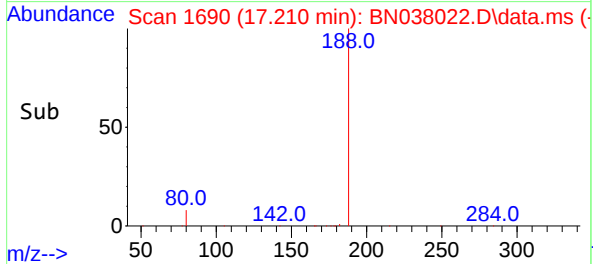
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:188 Resp: 2273
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.2 7.6 11.4

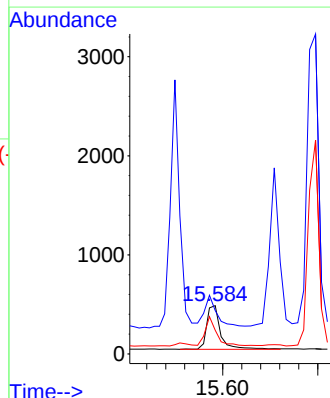
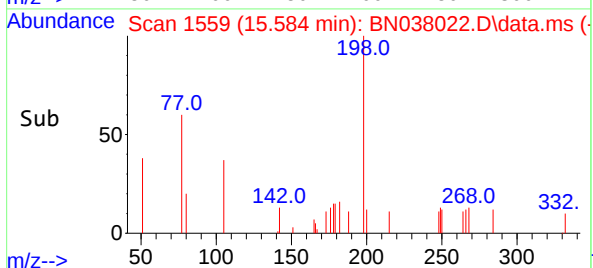
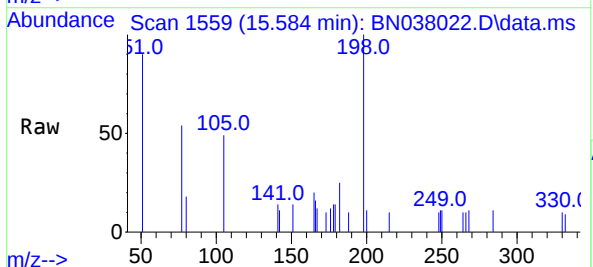
Manual Integrations
APPROVED

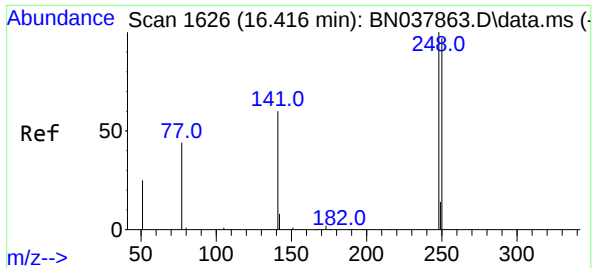
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.375 ng
RT: 15.584 min Scan# 1559
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

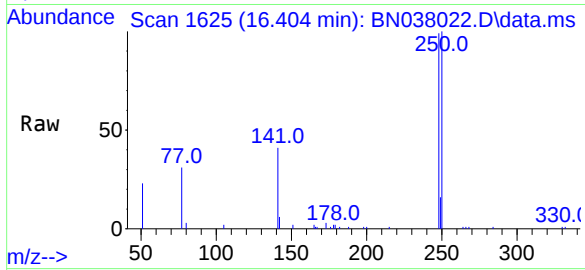
Tgt Ion:198 Resp: 897
Ion Ratio Lower Upper
198 100
51 89.5 59.1 88.7#
105 49.0 41.3 61.9





#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

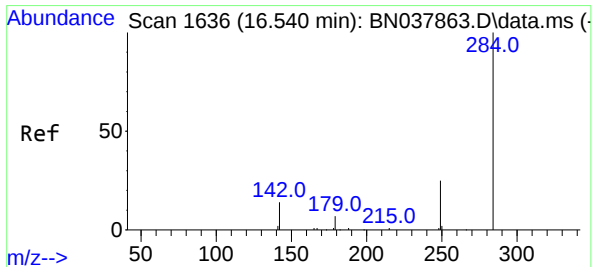
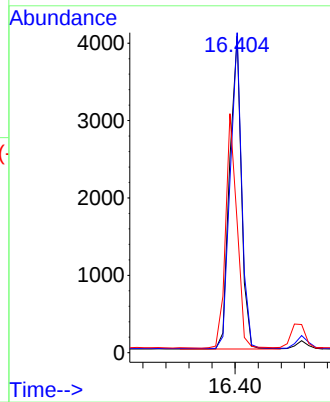
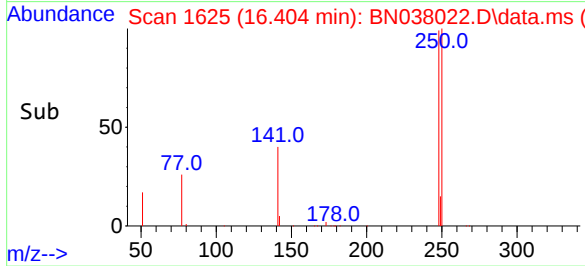
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:248 Resp: 5704
Ion Ratio Lower Upper
248 100
250 101.1 77.6 116.4
141 41.2 48.8 73.2

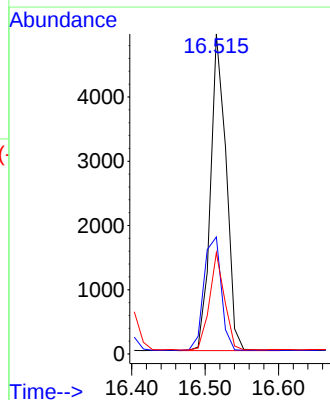
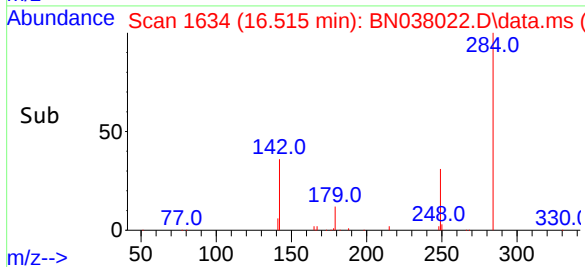
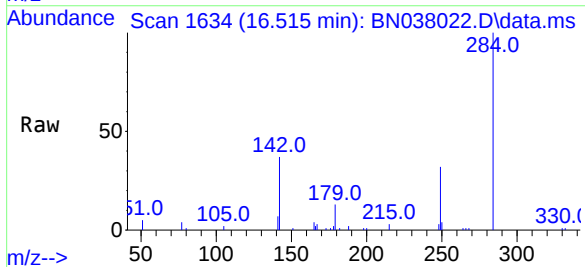
Manual Integrations
APPROVED

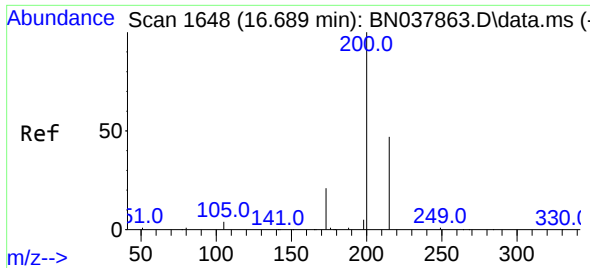
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.515 min Scan# 1634
Delta R.T. -0.025 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:284 Resp: 7267
Ion Ratio Lower Upper
284 100
142 39.9 30.9 46.3
249 29.4 23.9 35.9





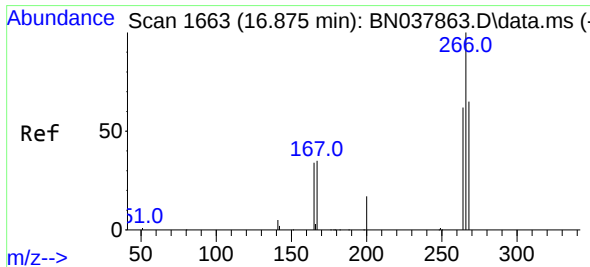
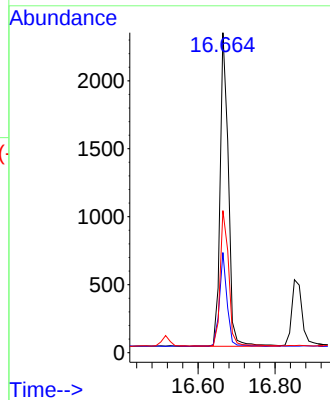
#23
Atrazine
Concen: 0.304 ng
RT: 16.664 min Scan# 1646
Delta R.T. -0.025 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 3424
Ion Ratio Lower Upper
200 100
173 31.3 18.3 27.5
215 44.4 38.6 58.0

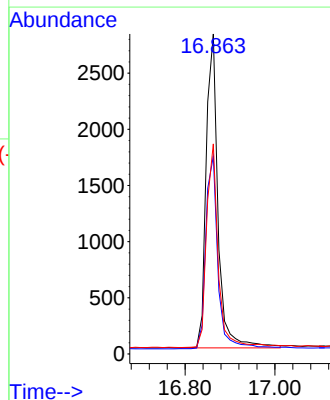
Manual Integrations
APPROVED

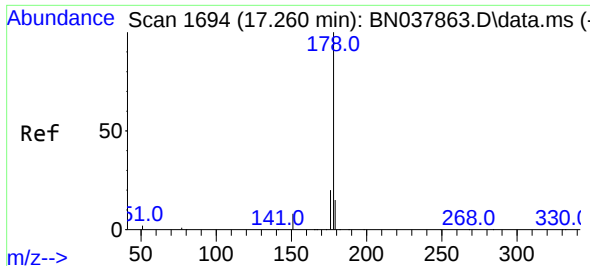
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#24
Pentachlorophenol
Concen: 0.833 ng
RT: 16.863 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:266 Resp: 5132
Ion Ratio Lower Upper
266 100
264 62.6 50.9 76.3
268 63.9 54.3 81.5





#25
Phenanthrene
Concen: 0.375 ng
RT: 17.248 min Scan# 1100
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

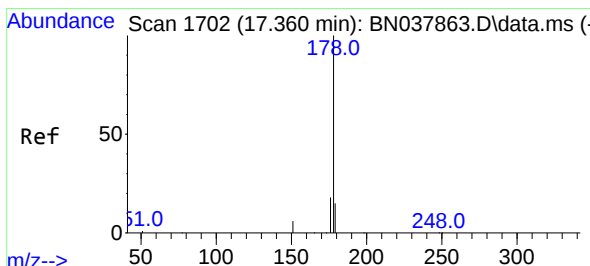
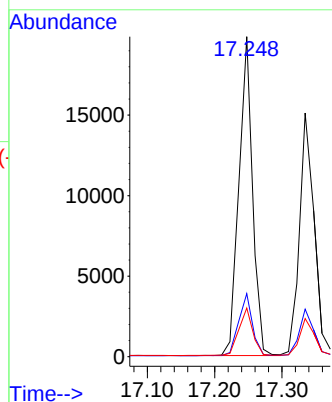
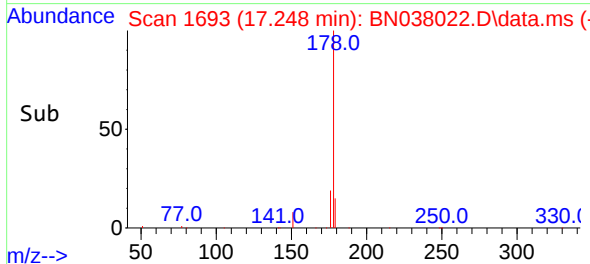
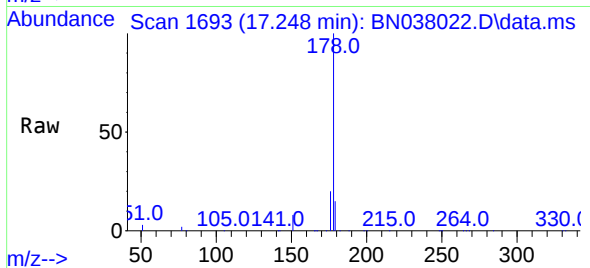
SSTDCCC0.4

Tgt Ion:178 Resp: 28024
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.3 18.5

Manual Integrations

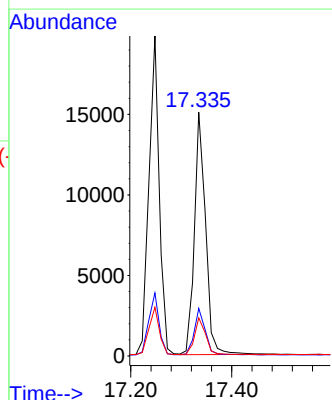
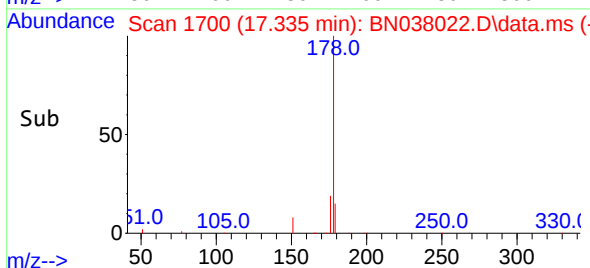
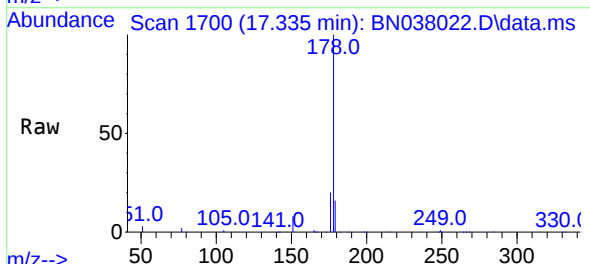
APPROVED

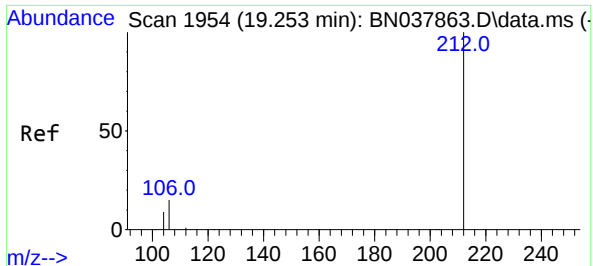
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#26
Anthracene
Concen: 0.357 ng
RT: 17.335 min Scan# 1700
Delta R.T. -0.025 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:178 Resp: 23199
Ion Ratio Lower Upper
178 100
176 18.9 15.0 22.4
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.323 ng

RT: 19.238 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:212 Resp: 18490

Ion Ratio Lower Upper

212 100

106 16.3 12.6 19.0

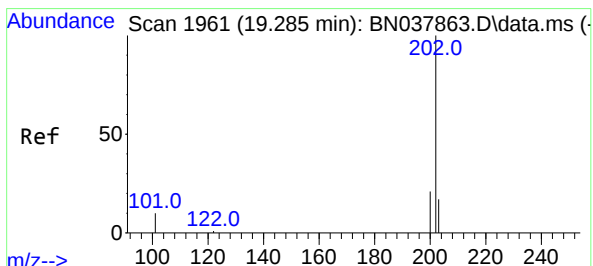
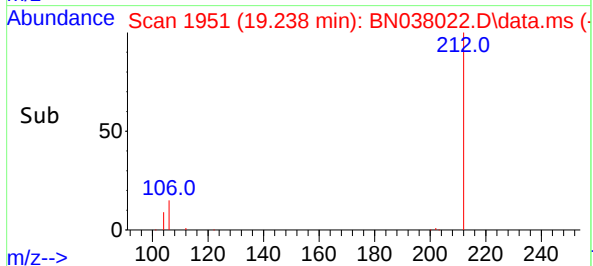
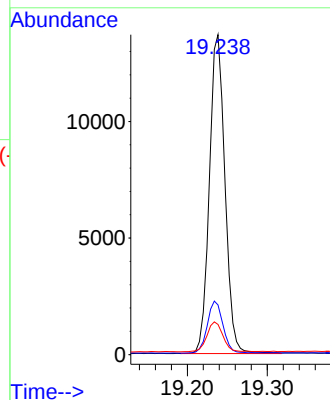
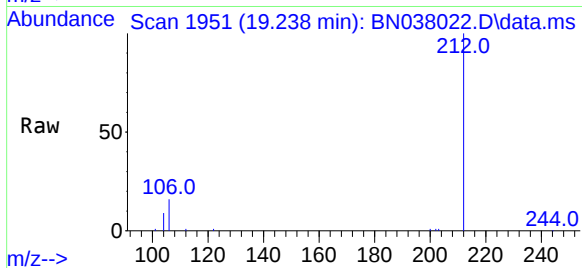
104 9.6 7.4 11.0

Manual Integrations

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Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



#28

Fluoranthene

Concen: 0.331 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.019 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

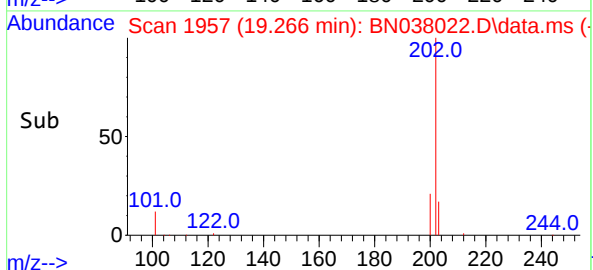
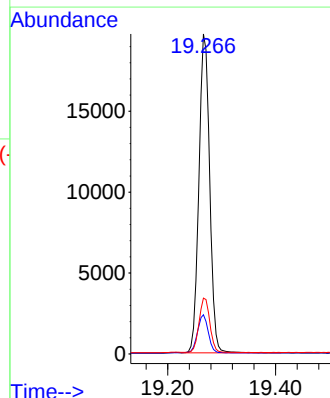
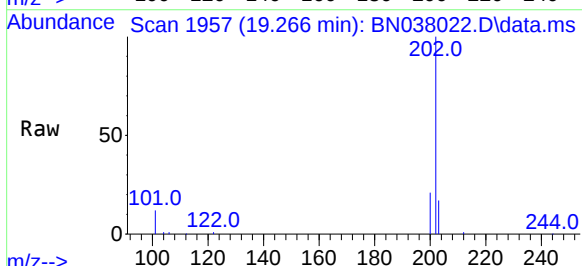
Tgt Ion:202 Resp: 27243

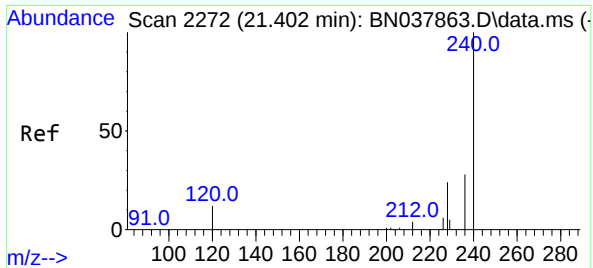
Ion Ratio Lower Upper

202 100

101 12.2 9.3 13.9

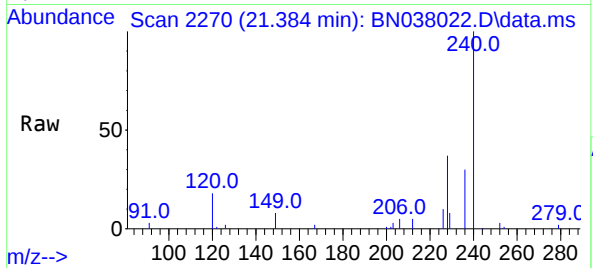
203 17.1 13.6 20.4





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 21356
Delta R.T. -0.018 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

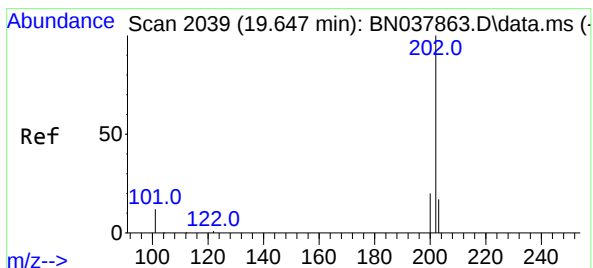
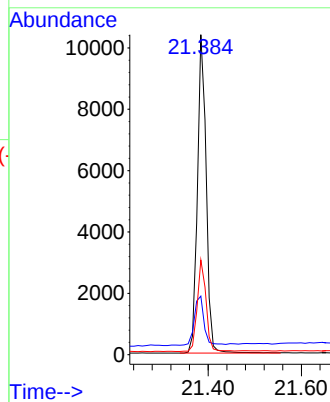
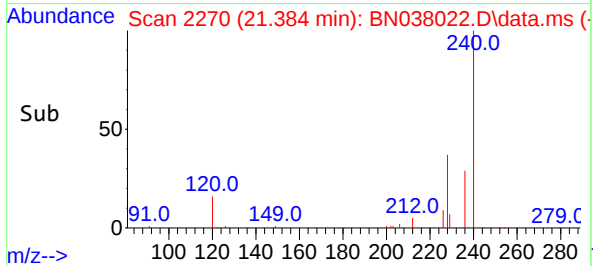
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:240 Resp: 13562
Ion Ratio Lower Upper
240 100
120 18.3 11.4 17.2
236 29.6 23.0 34.6

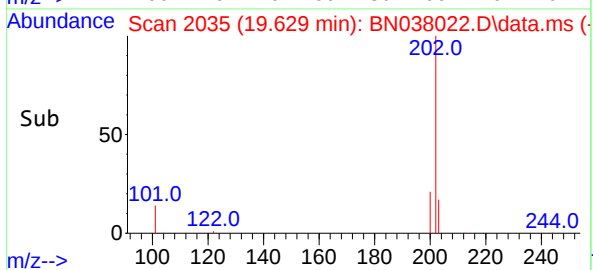
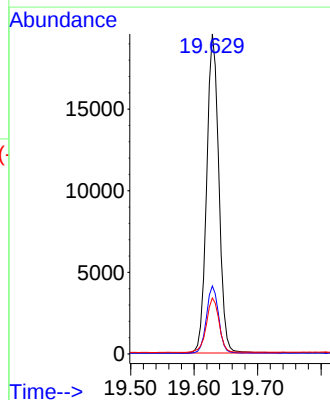
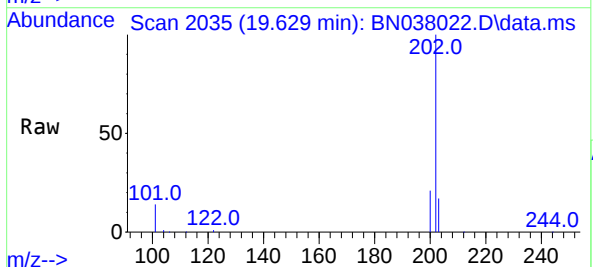
Manual Integrations
APPROVED

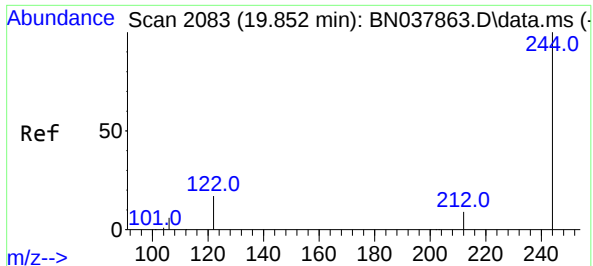
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#30
Pyrene
Concen: 0.487 ng
RT: 19.629 min Scan# 2035
Delta R.T. -0.019 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:202 Resp: 26066
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.6 14.2 21.4





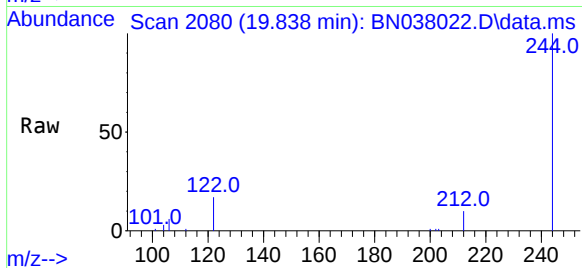
#31
Terphenyl-d14
Concen: 0.455 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

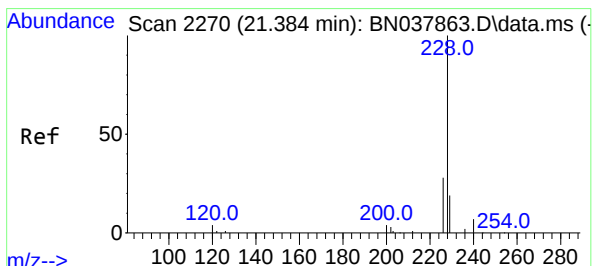
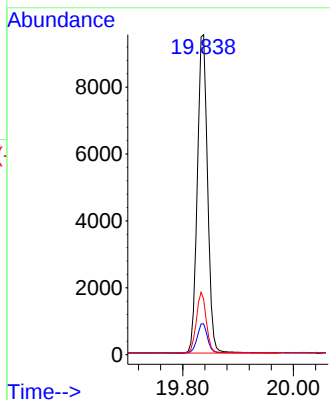
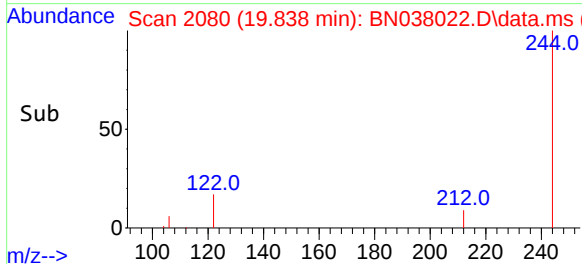


Tgt Ion:244 Resp: 12280
Ion Ratio Lower Upper
244 100
212 9.6 7.6 11.4
122 17.3 13.9 20.9

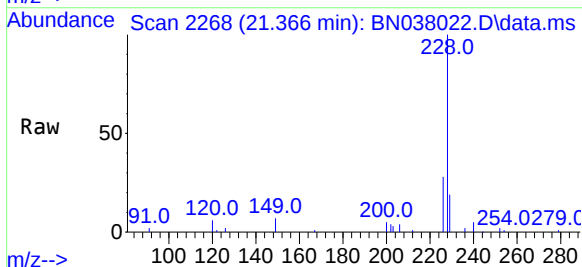
Manual Integrations

APPROVED

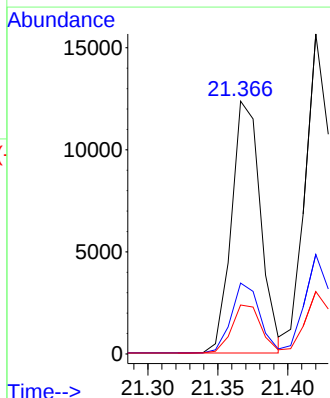
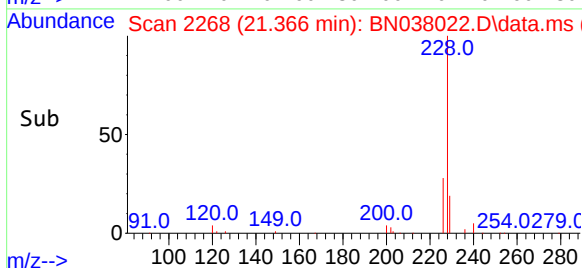
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



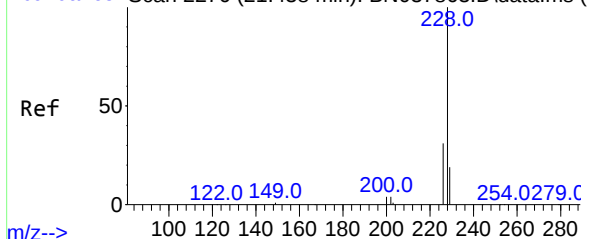
#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.366 min Scan# 2268
Delta R.T. -0.018 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32



Tgt Ion:228 Resp: 17879
Ion Ratio Lower Upper
228 100
226 28.0 22.6 33.8
229 19.4 15.6 23.4



Abundance Scan 2276 (21.438 min): BN037863.D\data.ms (-



#33

Chrysene

Concen: 0.394 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

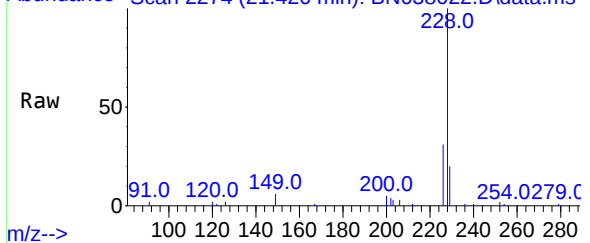
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

m/z--> Abundance Scan 2274 (21.420 min): BN038022.D\data.ms (-



Tgt Ion:228 Resp: 2021

Ion Ratio Lower Upper

228 100

226 31.1 24.6 37.0

229 19.5 15.6 23.4

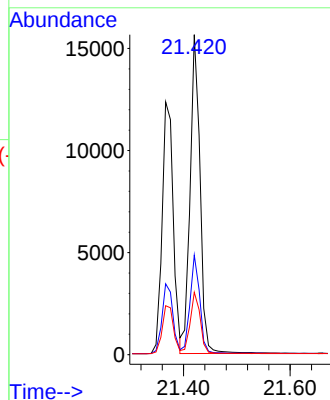
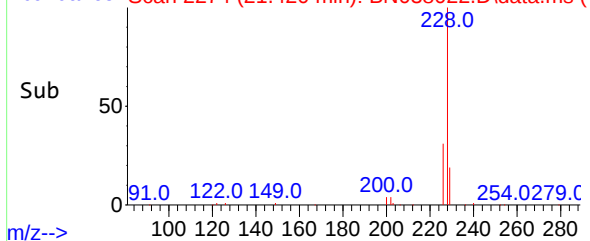
Manual Integrations

APPROVED

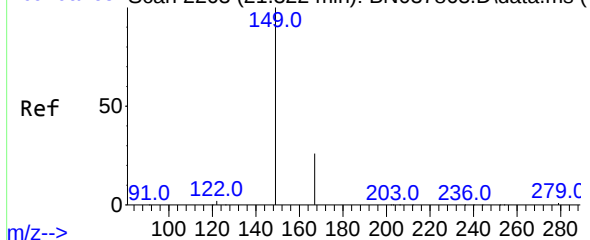
Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025

Abundance Scan 2274 (21.420 min): BN038022.D\data.ms (-



Abundance Scan 2263 (21.322 min): BN037863.D\data.ms (-



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.317 ng

RT: 21.304 min Scan# 2261

Delta R.T. -0.018 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Tgt Ion:149 Resp: 5945

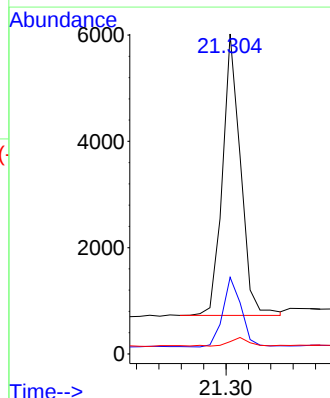
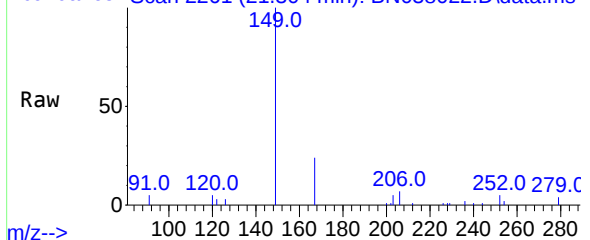
Ion Ratio Lower Upper

149 100

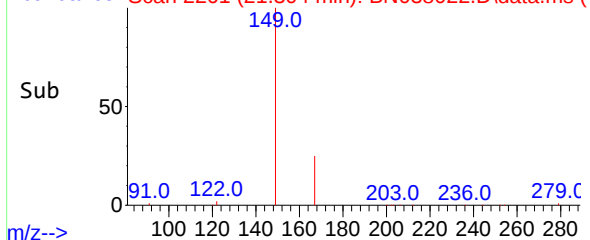
167 25.4 20.4 30.6

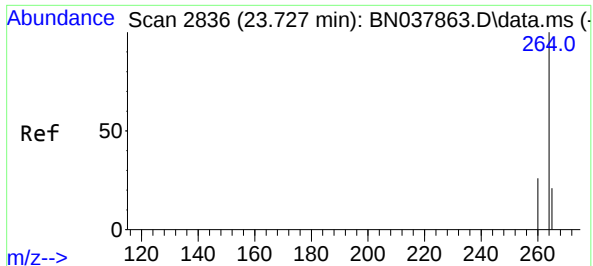
279 3.0 2.4 3.6

Abundance Scan 2261 (21.304 min): BN038022.D\data.ms (-



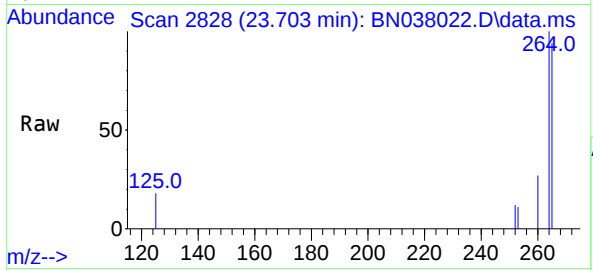
Abundance Scan 2261 (21.304 min): BN038022.D\data.ms (-





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.703 min Scan# 21
Delta R.T. -0.024 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

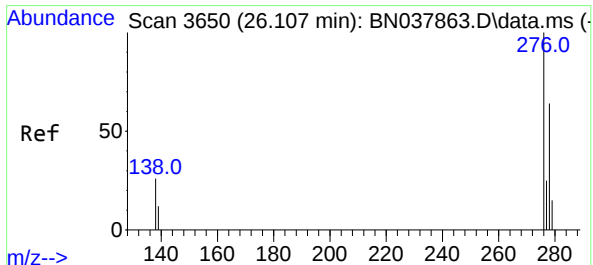
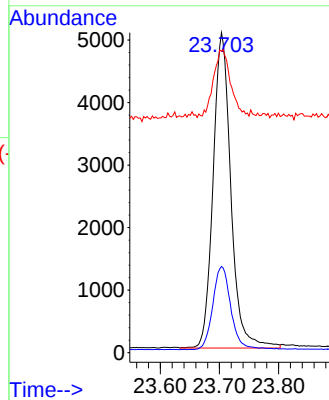
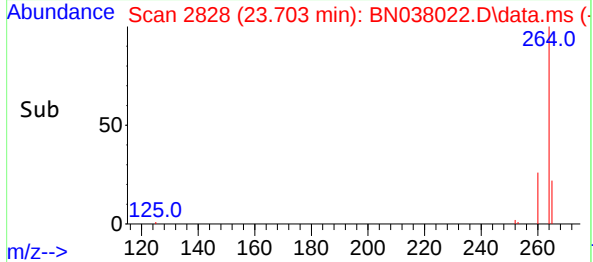
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 10530
Ion Ratio Lower Upper
264 100
260 26.9 21.5 32.3
265 94.1 53.8 80.6

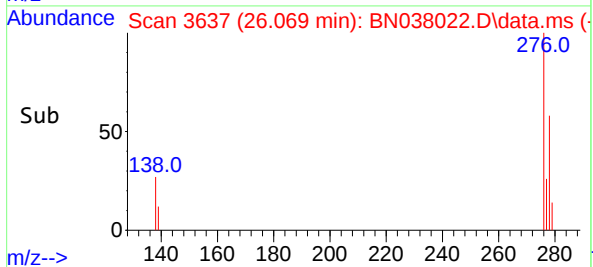
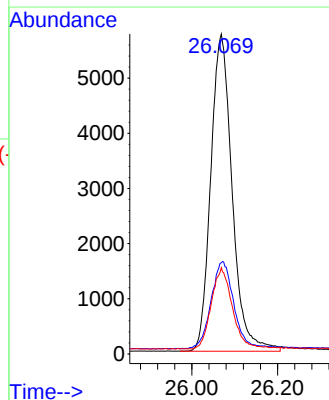
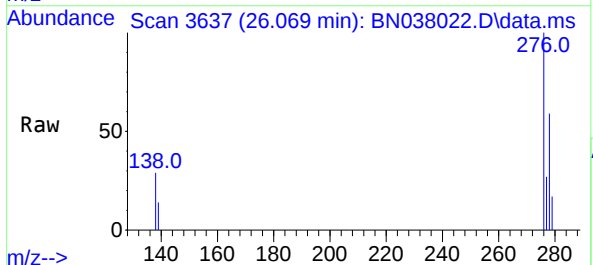
Manual Integrations
APPROVED

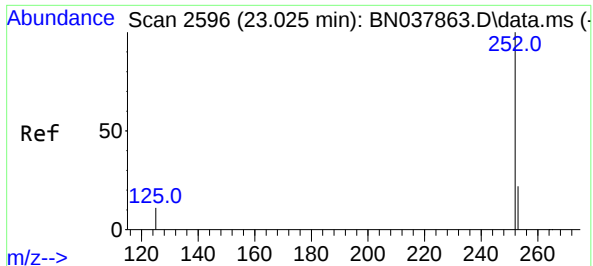
Reviewed By :Rahul Chavli 10/07/2025
Supervised By :Jagrut Upadhyay 10/07/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.414 ng
RT: 26.069 min Scan# 3637
Delta R.T. -0.038 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:276 Resp: 19936
Ion Ratio Lower Upper
276 100
138 29.0 21.4 32.0
277 25.0 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.411 ng m

RT: 23.005 min Scan# 21

Delta R.T. -0.021 min

Lab File: BN038022.D

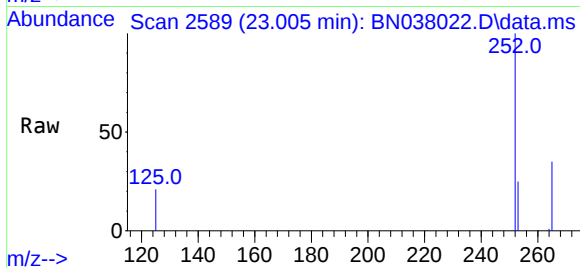
Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:252 Resp: 1868

Ion Ratio Lower Upper

252 100

253 25.5 19.4 29.0

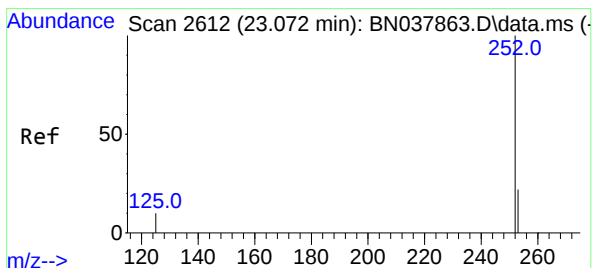
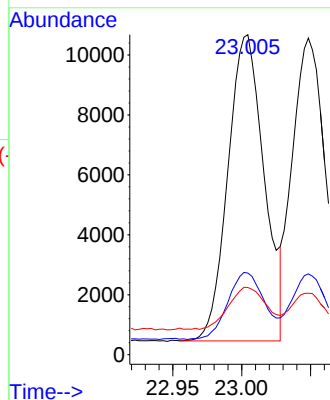
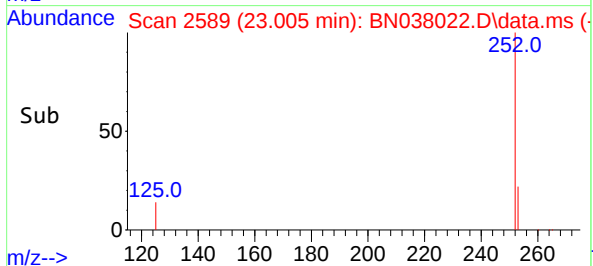
125 21.0 13.0 19.4

Manual Integrations

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Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



#38

Benzo(k)fluoranthene

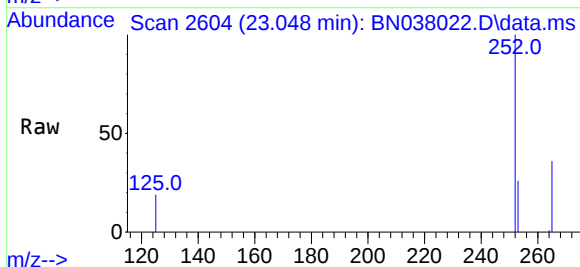
Concen: 0.384 ng

RT: 23.048 min Scan# 2604

Delta R.T. -0.024 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32



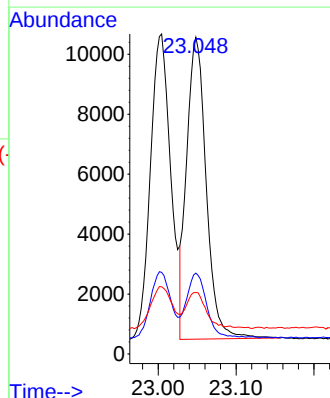
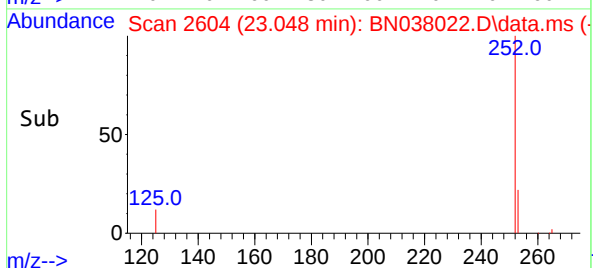
Tgt Ion:252 Resp: 17538

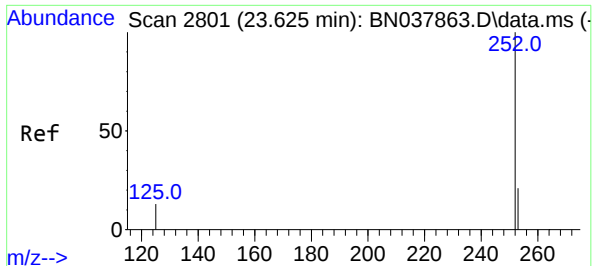
Ion Ratio Lower Upper

252 100

253 25.5 19.5 29.3

125 19.4 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.601 min Scan# 21

Delta R.T. -0.024 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252 Resp: 13760

Ion Ratio Lower Upper

252 100

253 28.7 20.6 30.8

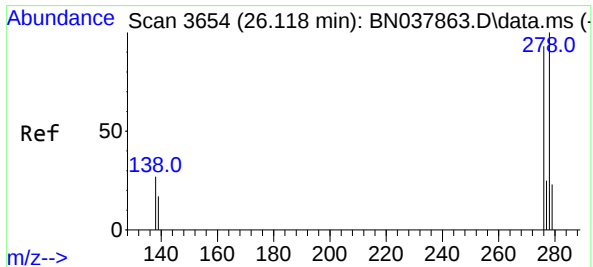
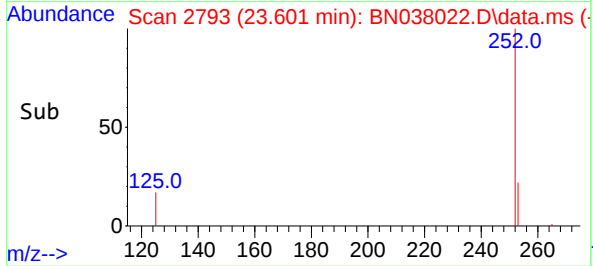
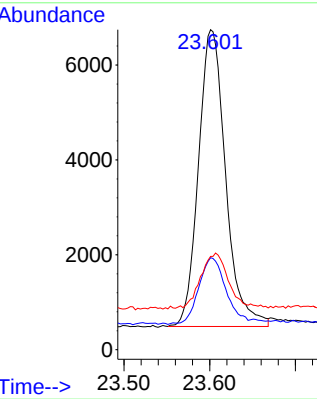
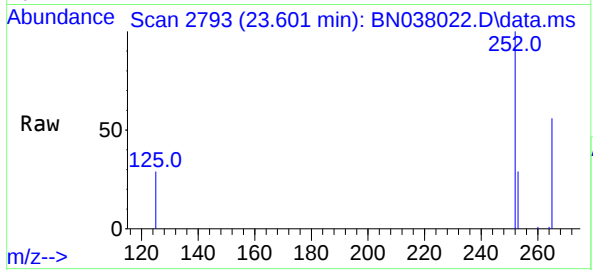
125 29.2 16.7 25.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.407 ng

RT: 26.083 min Scan# 3642

Delta R.T. -0.035 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

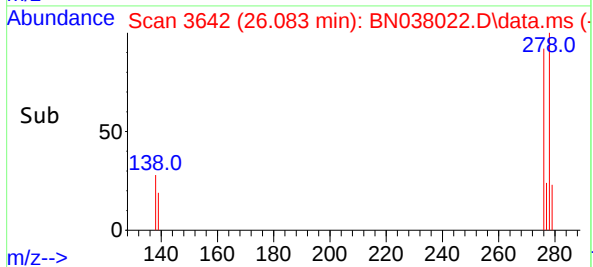
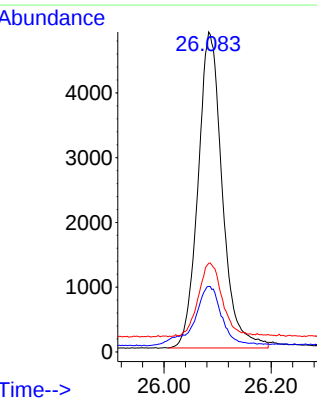
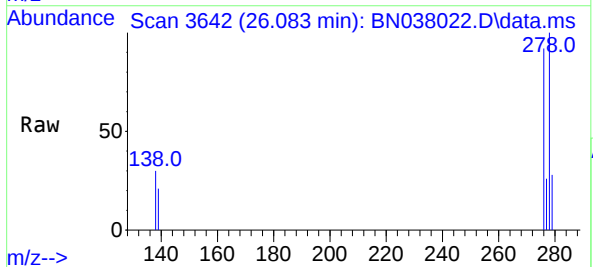
Tgt Ion:278 Resp: 15307

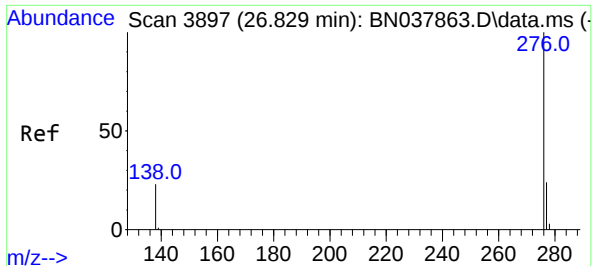
Ion Ratio Lower Upper

278 100

139 20.5 15.4 23.2

279 27.7 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.425 ng

RT: 26.791 min Scan# 3884

Delta R.T. -0.038 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:276 Resp: 16770

Ion Ratio Lower Upper

276 100

277 25.1 20.2 30.4

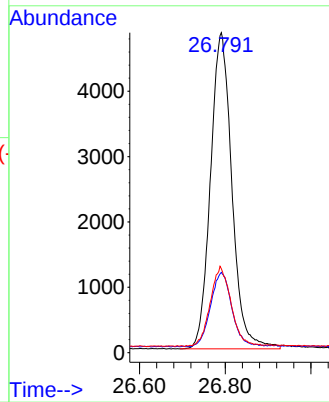
138 26.2 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
 Data File : BN038022.D
 Acq On : 06 Oct 2025 23:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 07 01:41:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 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	148	-0.02
2	1,4-Dioxane	0.406	0.372	8.4	134	0.00
3	n-Nitrosodimethylamine	0.540	0.483	10.6	138	0.00
4 S	2-Fluorophenol	0.913	0.764	16.3	132	-0.01
5 S	Phenol-d6	1.199	1.067	11.0	141	-0.01
6	bis(2-Chloroethyl)ether	1.113	1.066	4.2	146	-0.01
7 I	Naphthalene-d8	1.000	1.000	0.0	145	-0.02
8 S	Nitrobenzene-d5	0.305	0.290	4.9	146	-0.02
9	Naphthalene	1.102	1.067	3.2	148	-0.01
10	Hexachlorobutadiene	0.188	0.190	-1.1	152#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.556	0.504	9.4	147	-0.02
12	2-Methylnaphthalene	0.720	0.674	6.4	147	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	147	-0.01
14 S	2,4,6-Tribromophenol	0.152	0.125	17.8	135	-0.02
15 S	2-Fluorobiphenyl	1.638	1.579	3.6	149	-0.01
16	Acenaphthylene	1.816	1.736	4.4	154#	-0.02
17	Acenaphthene	1.294	1.195	7.7	147	-0.02
18	Fluorene	1.565	1.343	14.2	136	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	143	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.039	31.6#	129	-0.01
21	4-Bromophenyl-phenylether	0.261	0.251	3.8	146	-0.01
22	Hexachlorobenzene	0.316	0.320	-1.3	150	-0.03
23	Atrazine	0.199	0.151	24.1	125	-0.03
24	Pentachlorophenol	0.108	0.226	-109.3#	350#	-0.01
25	Phenanthrene	1.316	1.233	6.3	143	-0.01
26	Anthracene	1.142	1.020	10.7	142	-0.03
27 SURR	Fluoranthene-d10	1.006	0.813	19.2	131	-0.01
28	Fluoranthene	1.450	1.198	17.4	130	-0.02
29 I	Chrysene-d12	1.000	1.000	0.0	100	-0.02
30	Pyrene	1.579	1.922	-21.7	126	-0.02
31 S	Terphenyl-d14	0.797	0.905	-13.6	120	-0.01
32	Benzo(a)anthracene	1.398	1.318	5.7	102	-0.02
33	Chrysene	1.512	1.491	1.4	102	-0.02
34	Bis(2-ethylhexyl)phthalate	0.553	0.438	20.8	90	-0.02
35 I	Perylene-d12	1.000	1.000	0.0	84	-0.02
36	Indeno(1,2,3-cd)pyrene	1.828	1.893	-3.6	96	-0.04
37	Benzo(b)fluoranthene	1.725	1.774	-2.8	91	-0.02
38	Benzo(k)fluoranthene	1.736	1.666	4.0	87	-0.02
39 C	Benzo(a)pyrene	1.364	1.307	4.2	89	-0.02
40	Dibenzo(a,h)anthracene	1.427	1.454	-1.9	93	-0.04
41	Benzo(g,h,i)perylene	1.499	1.593	-6.3	95	-0.04

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
 Data File : BN038022.D
 Acq On : 06 Oct 2025 23:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 07 01:41:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 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	148	-0.02
2	1,4-Dioxane	0.400	0.366	8.5	134	0.00
3	n-Nitrosodimethylamine	0.400	0.358	10.5	138	0.00
4 S	2-Fluorophenol	0.400	0.335	16.3	132	-0.01
5 S	Phenol-d6	0.400	0.356	11.0	141	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.383	4.3	146	-0.01
7 I	Naphthalene-d8	0.400	0.400	0.0	145	-0.02
8 S	Nitrobenzene-d5	0.400	0.381	4.8	146	-0.02
9	Naphthalene	0.400	0.387	3.3	148	-0.01
10	Hexachlorobutadiene	0.400	0.404	-1.0	152	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.362	9.5	147	-0.02
12	2-Methylnaphthalene	0.400	0.375	6.3	147	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	147	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.329	17.8	135	-0.02
15 S	2-Fluorobiphenyl	0.400	0.386	3.5	149	-0.01
16	Acenaphthylene	0.400	0.382	4.5	154	-0.02
17	Acenaphthene	0.400	0.369	7.8	147	-0.02
18	Fluorene	0.400	0.343	14.2	136	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	143	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.375	6.3	129	-0.01
21	4-Bromophenyl-phenylether	0.400	0.385	3.8	146	-0.01
22	Hexachlorobenzene	0.400	0.405	-1.3	150	-0.03
23	Atrazine	0.400	0.304	24.0	125	-0.03
24	Pentachlorophenol	0.400	0.833	-108.2#	350	-0.01
25	Phenanthrene	0.400	0.375	6.3	143	-0.01
26	Anthracene	0.400	0.357	10.8	142	-0.03
27 SURR	Fluoranthene-d10	0.400	0.323	19.3	131	-0.01
28	Fluoranthene	0.400	0.331	17.3	130	-0.02
29 I	Chrysene-d12	0.400	0.400	0.0	100	-0.02
30	Pyrene	0.400	0.487	-21.7	126	-0.02
31 S	Terphenyl-d14	0.400	0.455	-13.7	120	-0.01
32	Benzo(a)anthracene	0.400	0.377	5.8	102	-0.02
33	Chrysene	0.400	0.394	1.5	102	-0.02
34	Bis(2-ethylhexyl)phthalate	0.400	0.317	20.8	90	-0.02
35 I	Perylene-d12	0.400	0.400	0.0	84	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.414	-3.5	96	-0.04
37	Benzo(b)fluoranthene	0.400	0.411	-2.7	91	-0.02
38	Benzo(k)fluoranthene	0.400	0.384	4.0	87	-0.02
39 C	Benzo(a)pyrene	0.400	0.383	4.3	89	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.407	-1.7	93	-0.04
41	Benzo(g,h,i)perylene	0.400	0.425	-6.2	95	-0.04

(#) = 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.: Q3213
 Instrument ID: BNA_N Calibration Date/Time: 10/07/2025 09:47
 Lab File ID: BN038039.D Init. Calib. Date(s): 09/23/2025 09/23/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.556	0.515		-7.4	50.0
Fluoranthene-d10	1.006	0.820		-18.5	50.0
2-Fluorophenol	0.913	0.850		-6.9	50.0
Phenol-d6	1.199	1.108		-7.6	50.0
Nitrobenzene-d5	0.305	0.291		-4.6	50.0
2-Fluorobiphenyl	1.638	1.521		-7.1	50.0
2,4,6-Tribromophenol	0.152	0.117		-23.0	50.0
Terphenyl-d14	0.797	0.944		18.4	50.0
1,4-Dioxane	0.406	0.426		4.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
 Data File : BN038039.D
 Acq On : 07 Oct 2025 09:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Oct 07 10:39:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

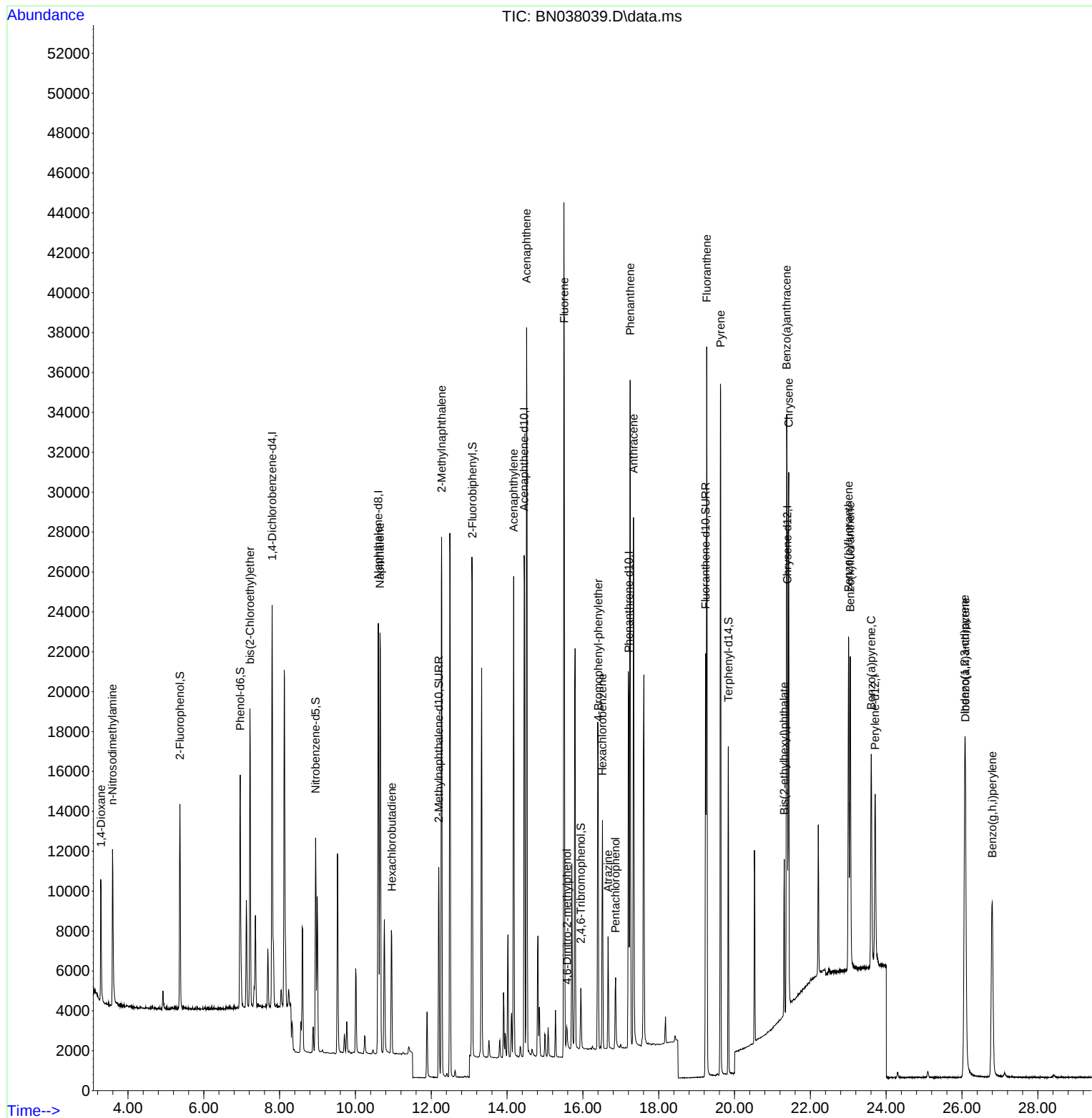
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	9665	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	28130	0.400	ng	-0.02
13) Acenaphthene-d10	14.452	164	15015	0.400	ng	-0.02
19) Phenanthrene-d10	17.211	188	27818	0.400	ng	#-0.01
29) Chrysene-d12	21.393	240	16228	0.400	ng	0.00
35) Perylene-d12	23.709	264	12655	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.370	112	8216	0.373	ng	-0.01
5) Phenol-d6	6.959	99	10704	0.369	ng	-0.01
8) Nitrobenzene-d5	8.950	82	8194	0.382	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	14476	0.370	ng	-0.02
14) 2,4,6-Tribromophenol	15.945	330	1759	0.309	ng	-0.02
15) 2-Fluorobiphenyl	13.083	172	22838	0.372	ng	-0.01
27) Fluoranthene-d10	19.239	212	22814	0.326	ng	-0.01
31) Terphenyl-d14	19.838	244	15325	0.474	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.290	88	4121	0.420	ng	98
3) n-Nitrosodimethylamine	3.593	42	5269	0.404	ng	# 90
6) bis(2-Chloroethyl)ether	7.219	93	10565	0.393	ng	98
9) Naphthalene	10.648	128	29555	0.381	ng	100
10) Hexachlorobutadiene	10.957	225	5211	0.394	ng	# 98
12) 2-Methylnaphthalene	12.273	142	19108	0.377	ng	99
16) Acenaphthylene	14.174	152	25561	0.375	ng	100
17) Acenaphthene	14.516	154	17783	0.366	ng	98
18) Fluorene	15.510	166	20019	0.341	ng	99
20) 4,6-Dinitro-2-methylph...	15.585	198	893	0.319	ng	# 78
21) 4-Bromophenyl-phenylether	16.404	248	6898	0.381	ng	# 87
22) Hexachlorobenzene	16.516	284	8528	0.388	ng	99
23) Atrazine	16.665	200	4273	0.310	ng	# 92
24) Pentachlorophenol	16.863	266	1986	0.263	ng	98
25) Phenanthrene	17.248	178	33982	0.371	ng	99
26) Anthracene	17.335	178	28282	0.356	ng	100
28) Fluoranthene	19.267	202	33045	0.328	ng	99
30) Pyrene	19.634	202	31824	0.497	ng	100
32) Benzo(a)anthracene	21.375	228	21454	0.378	ng	99
33) Chrysene	21.429	228	23982	0.391	ng	99
34) Bis(2-ethylhexyl)phtha...	21.313	149	7091	0.316	ng	98
36) Indeno(1,2,3-cd)pyrene	26.072	276	23543	0.407	ng	97
37) Benzo(b)fluoranthene	23.008	252	21734	0.398	ng	96
38) Benzo(k)fluoranthene	23.052	252	20824	0.379	ng	96
39) Benzo(a)pyrene	23.607	252	16396	0.380	ng	# 92
40) Dibenzo(a,h)anthracene	26.092	278	18431	0.408	ng	98
41) Benzo(g,h,i)perylene	26.797	276	19777	0.417	ng	98

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

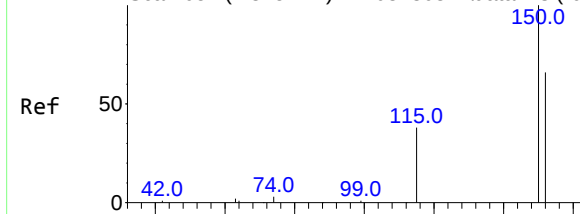
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038039.D
Acq On : 07 Oct 2025 09:47
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Oct 07 10:39:40 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64)



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

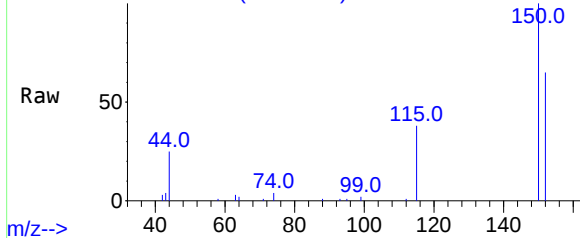
BNA_N

ClientSampleId :

SSTDCCC0.4EC

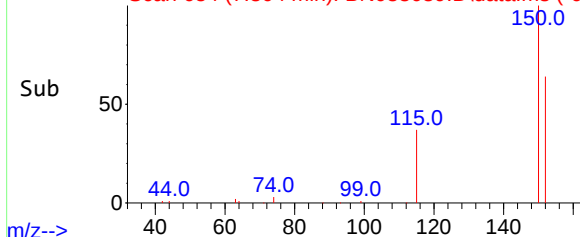
m/z-->

Abundance Scan 654 (7.804 min): BN038039.D\data.ms



m/z-->

Abundance Scan 654 (7.804 min): BN038039.D\data.ms (-62)



m/z-->

Tgt Ion:152 Resp: 9665

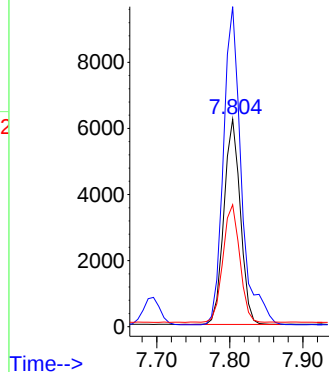
Ion Ratio Lower Upper

152 100

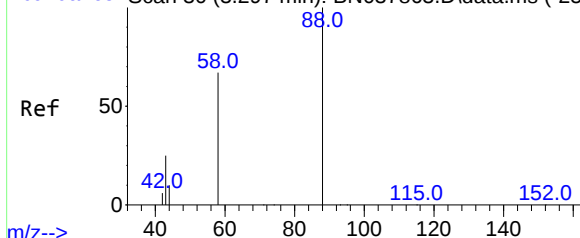
150 154.2 121.0 181.4

115 58.7 47.4 71.0

Abundance

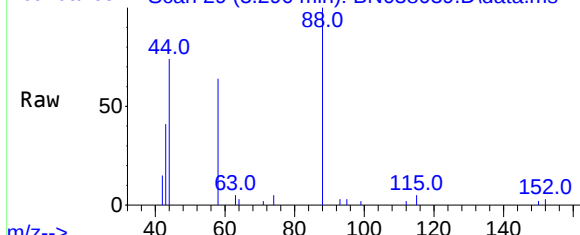


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



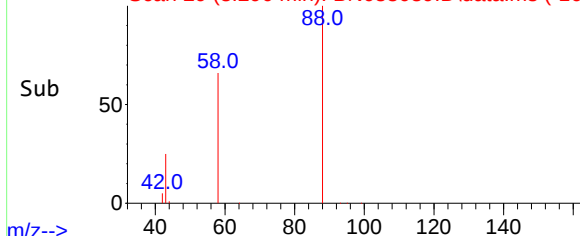
m/z-->

Abundance Scan 29 (3.290 min): BN038039.D\data.ms



m/z-->

Abundance Scan 29 (3.290 min): BN038039.D\data.ms (-16)



m/z-->

#2

1,4-Dioxane

Concen: 0.420 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Tgt Ion: 88 Resp: 4121

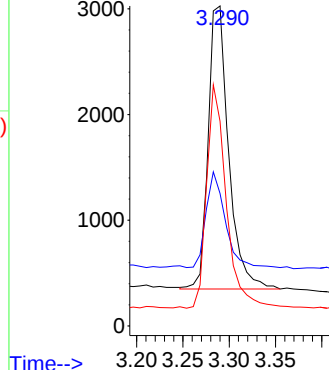
Ion Ratio Lower Upper

88 100

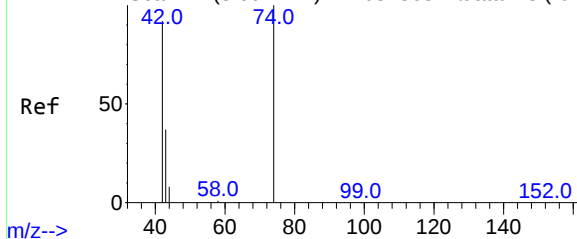
43 31.5 26.6 39.8

58 75.3 58.9 88.3

Abundance



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.404 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 5269

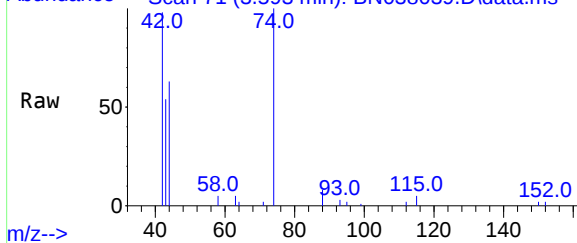
Ion Ratio Lower Upper

42 100

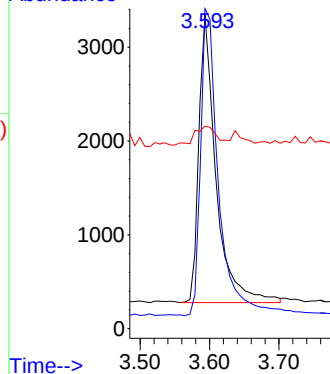
74 112.4 93.4 140.0

44 8.5 22.2 33.4#

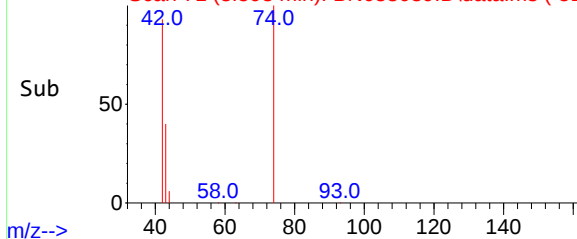
Abundance Scan 71 (3.593 min): BN038039.D\data.ms



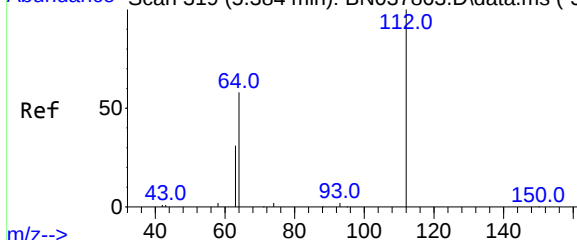
Abundance



Abundance Scan 71 (3.593 min): BN038039.D\data.ms (-51)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.373 ng

RT: 5.370 min Scan# 317

Delta R.T. -0.014 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Tgt Ion: 112 Resp: 8216

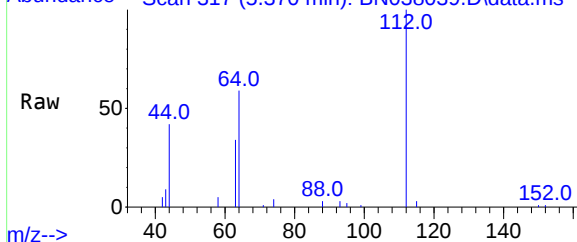
Ion Ratio Lower Upper

112 100

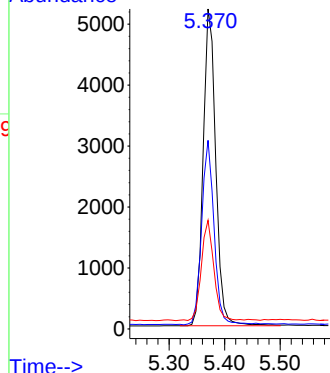
64 57.9 44.6 66.8

63 31.2 24.9 37.3

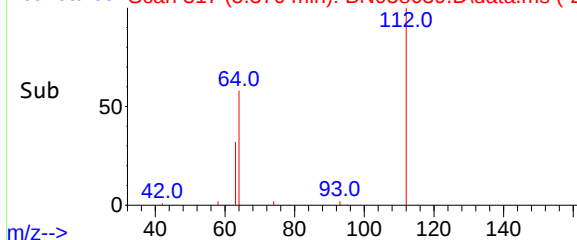
Abundance Scan 317 (5.370 min): BN038039.D\data.ms

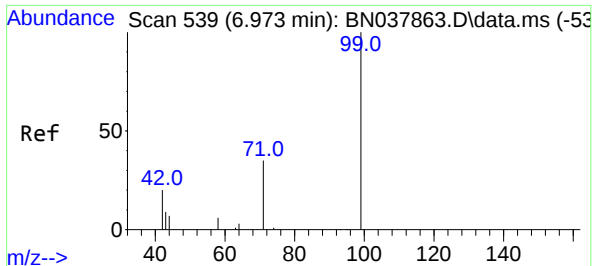


Abundance



Abundance Scan 317 (5.370 min): BN038039.D\data.ms (-29)

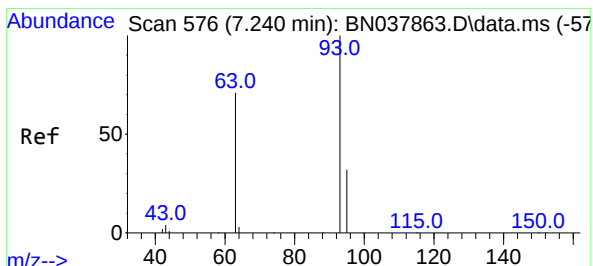
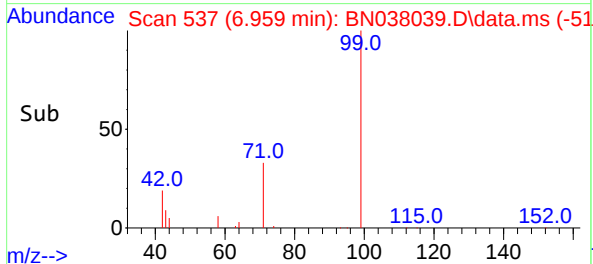
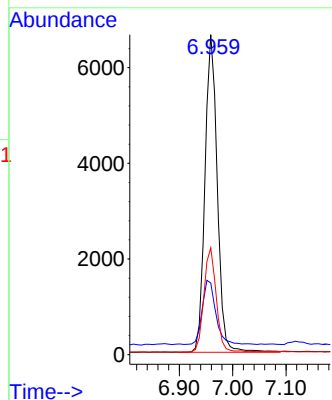
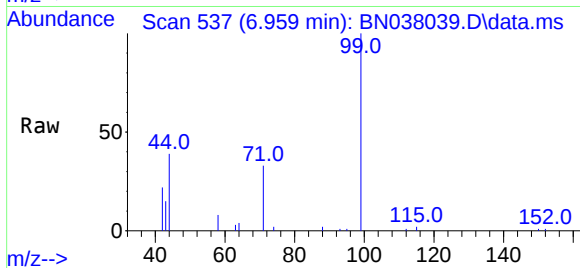




#5
Phenol-d6
Concen: 0.369 ng
RT: 6.959 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

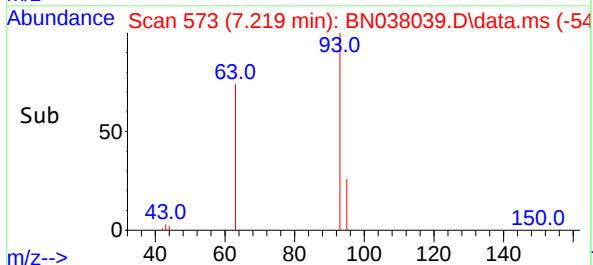
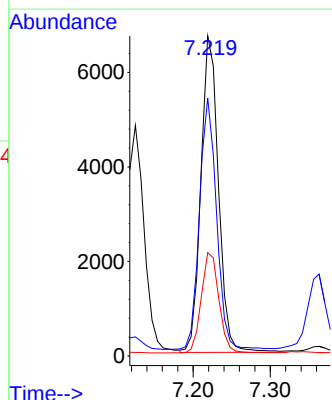
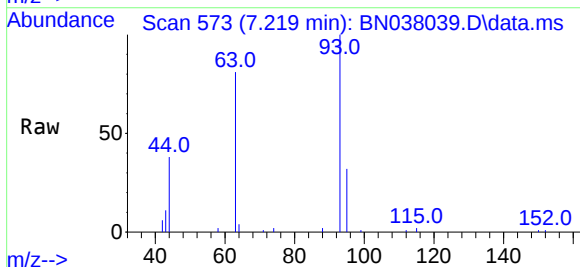
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

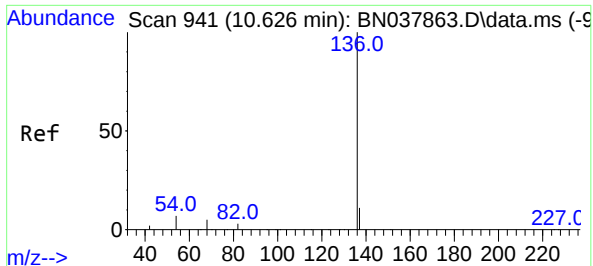
Tgt Ion: 99 Resp: 10704
Ion Ratio Lower Upper
99 100
42 22.4 17.2 25.8
71 33.0 27.3 40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.393 ng
RT: 7.219 min Scan# 573
Delta R.T. -0.022 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion: 93 Resp: 10565
Ion Ratio Lower Upper
93 100
63 77.4 60.1 90.1
95 31.9 25.4 38.2

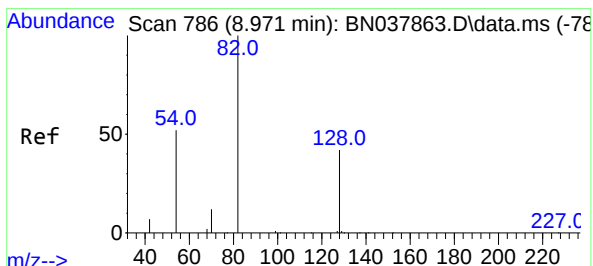
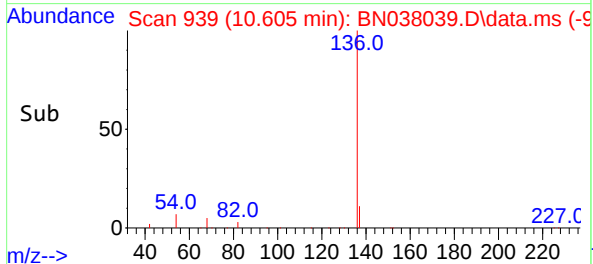
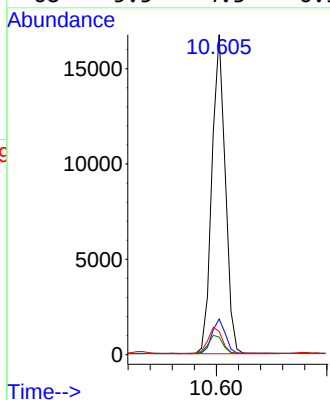
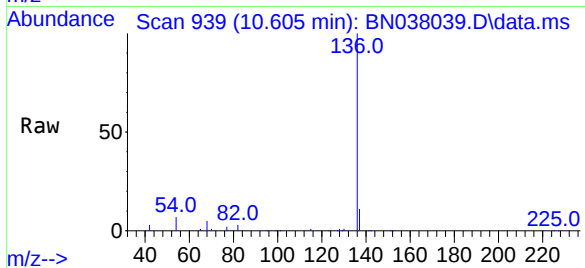




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

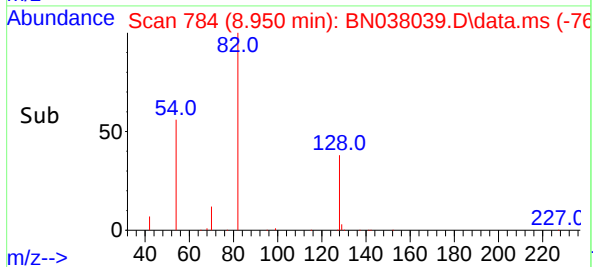
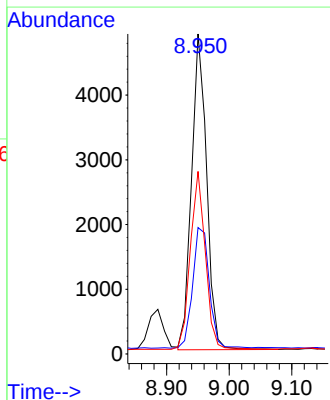
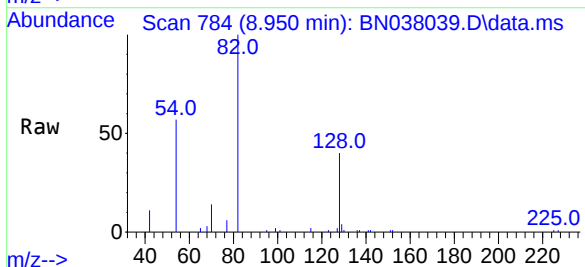
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

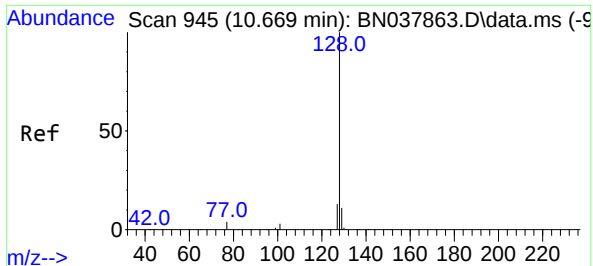
Tgt Ion:	136	Resp:	28130
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.3	5.8	8.8
68	5.5	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:	82	Resp:	8194
Ion	Ratio	Lower	Upper
82	100		
128	39.5	34.8	52.2
54	57.1	42.2	63.2

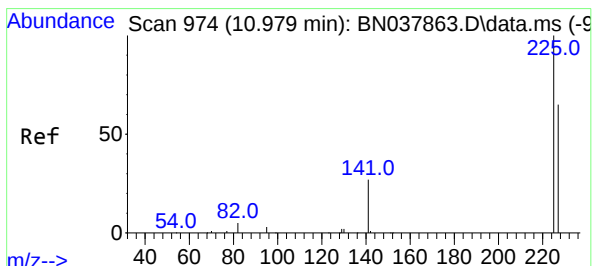
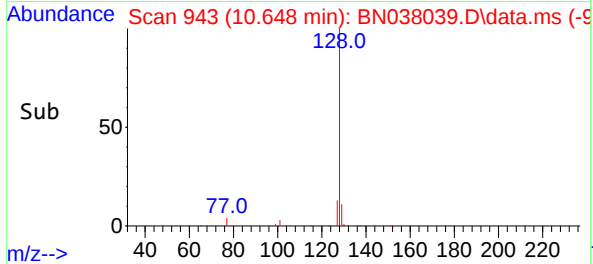
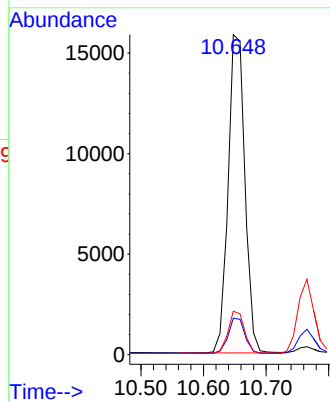
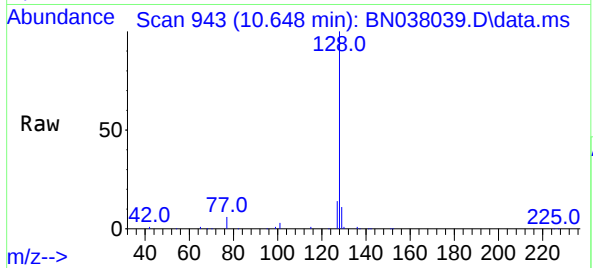




#9
Naphthalene
Concen: 0.381 ng
RT: 10.648 min Scan# 945
Delta R.T. -0.021 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

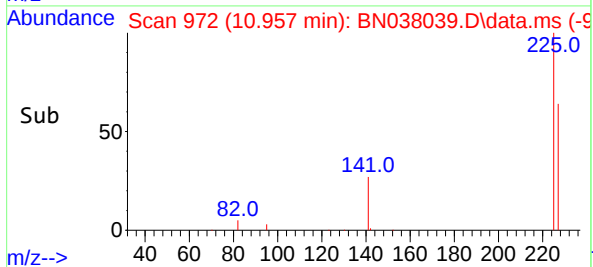
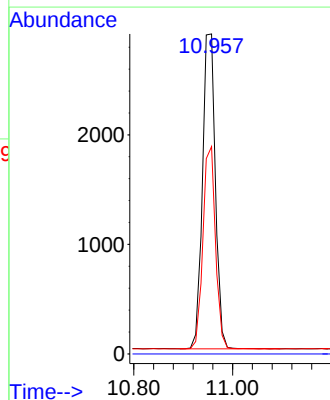
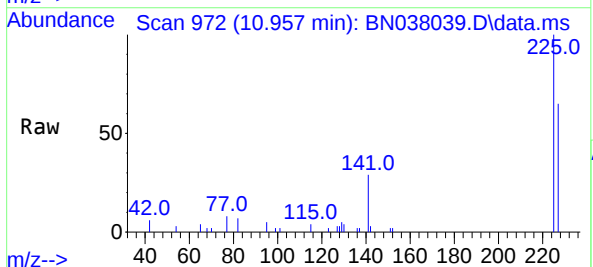
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

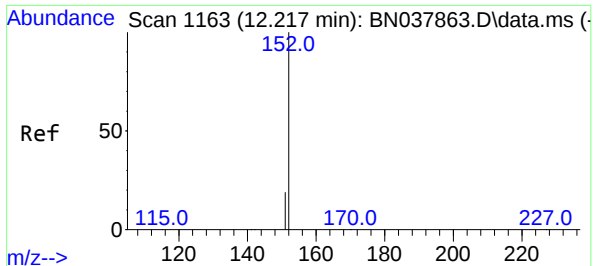
Tgt Ion:128 Resp: 29555
Ion Ratio Lower Upper
128 100
129 11.4 9.2 13.8
127 13.6 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.957 min Scan# 972
Delta R.T. -0.021 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:225 Resp: 5211
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.5 51.4 77.2

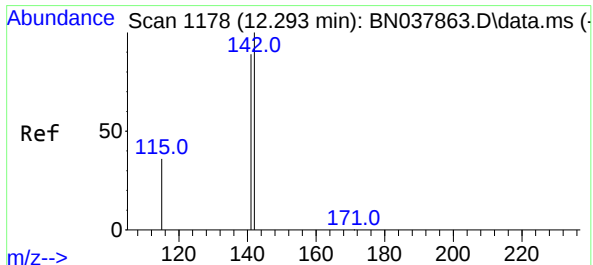
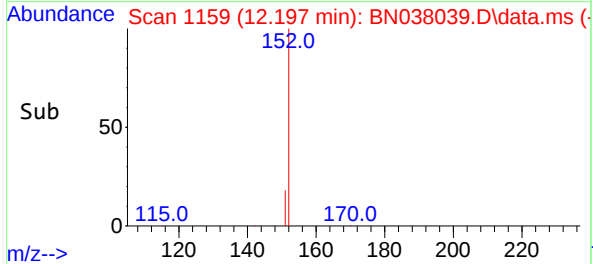
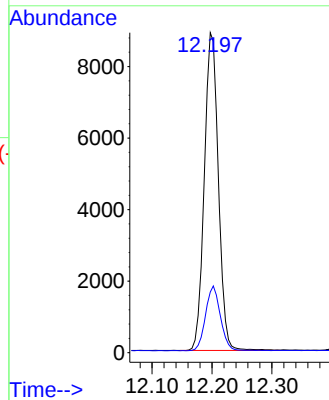
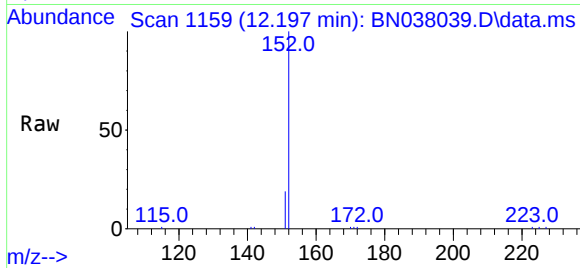




#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.020 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

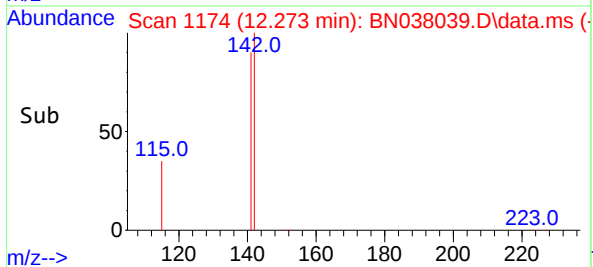
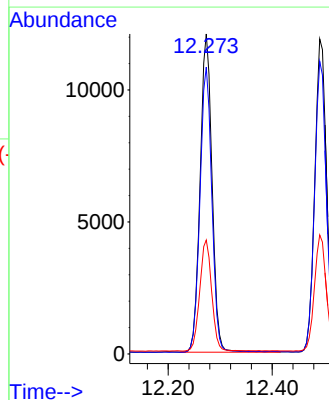
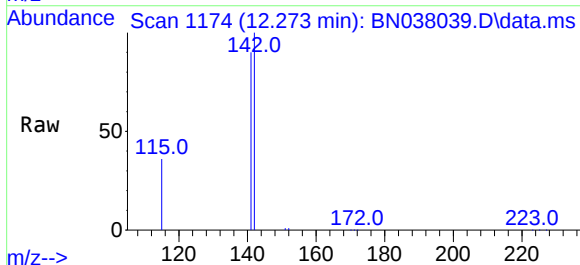
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

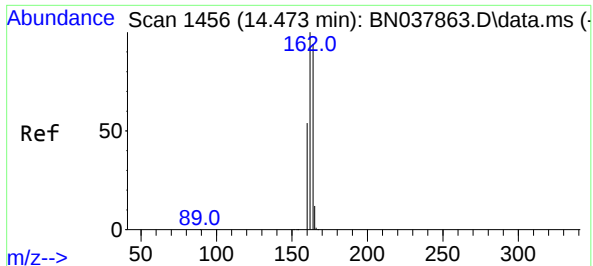
Tgt Ion:152 Resp: 14476
Ion Ratio Lower Upper
152 100
151 21.5 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.377 ng
RT: 12.273 min Scan# 1174
Delta R.T. -0.020 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:142 Resp: 19108
Ion Ratio Lower Upper
142 100
141 89.7 71.2 106.8
115 35.6 29.7 44.5

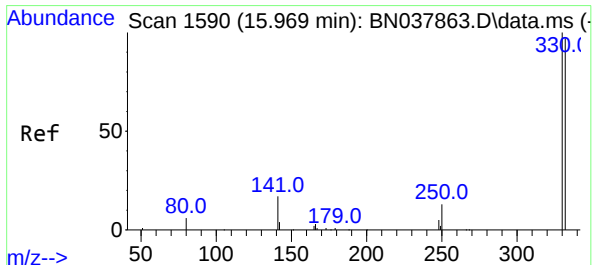
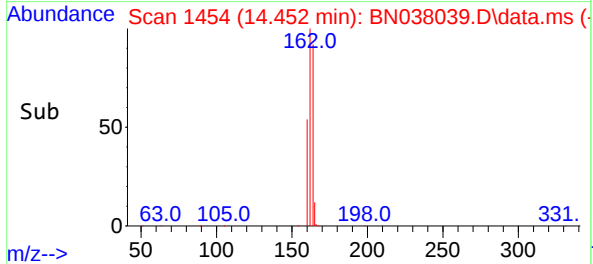
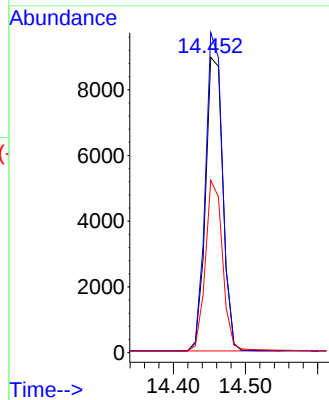
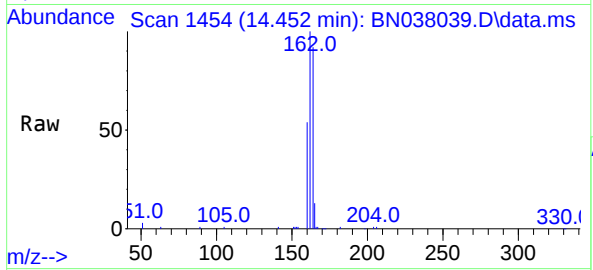




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 1456
Delta R.T. -0.021 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

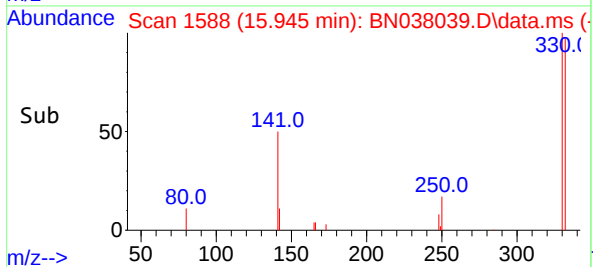
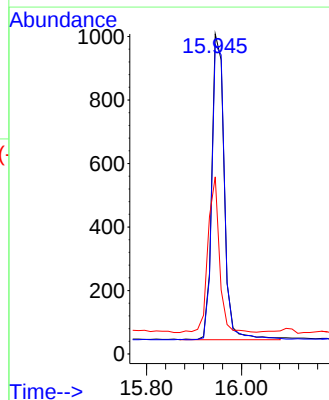
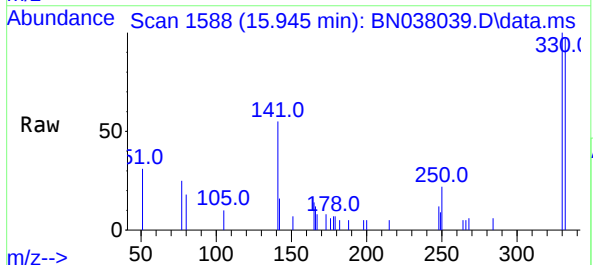
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

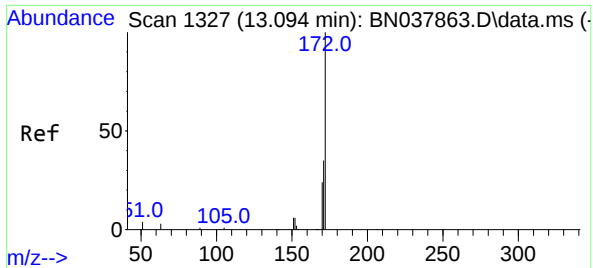
Tgt Ion:164 Resp: 15015
Ion Ratio Lower Upper
164 100
162 108.4 84.8 127.2
160 58.3 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.309 ng
RT: 15.945 min Scan# 1588
Delta R.T. -0.024 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:330 Resp: 1759
Ion Ratio Lower Upper
330 100
332 98.4 77.2 115.8
141 46.9 37.2 55.8

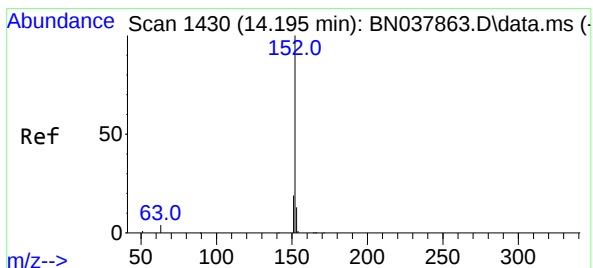
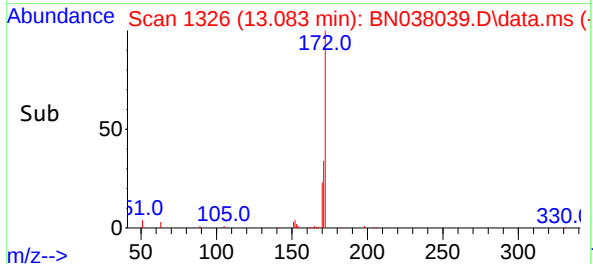
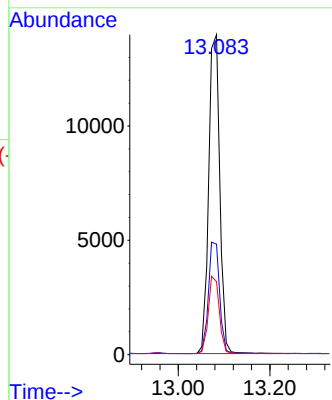
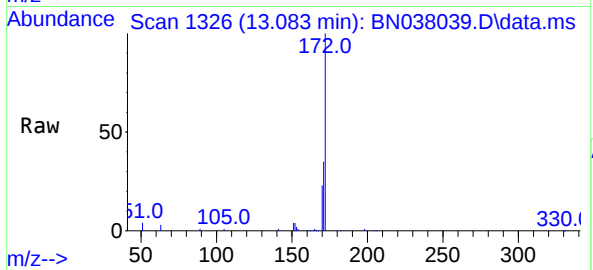




#15
2-Fluorobiphenyl
Concen: 0.372 ng
RT: 13.083 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

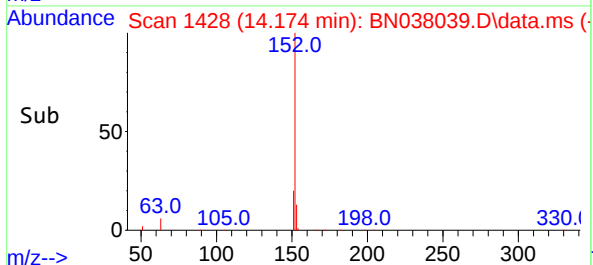
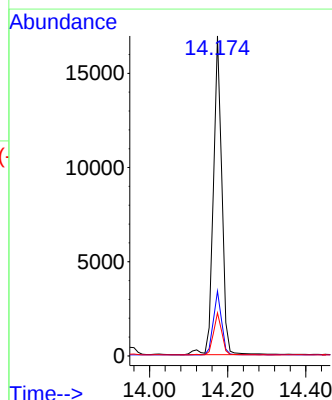
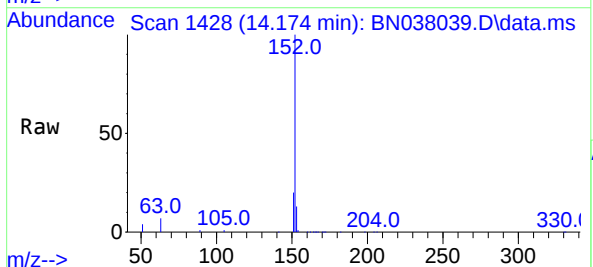
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

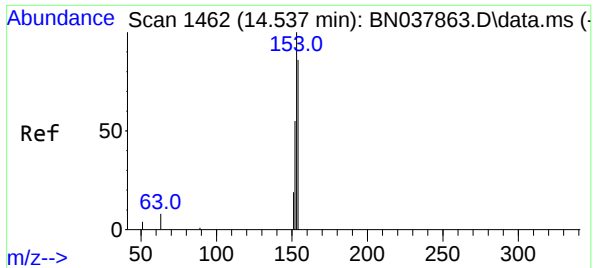
Tgt Ion:172 Resp: 22838
Ion Ratio Lower Upper
172 100
171 34.5 28.6 43.0
170 22.9 19.7 29.5



#16
Acenaphthylene
Concen: 0.375 ng
RT: 14.174 min Scan# 1428
Delta R.T. -0.021 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:152 Resp: 25561
Ion Ratio Lower Upper
152 100
151 19.5 15.8 23.8
153 13.1 10.5 15.7

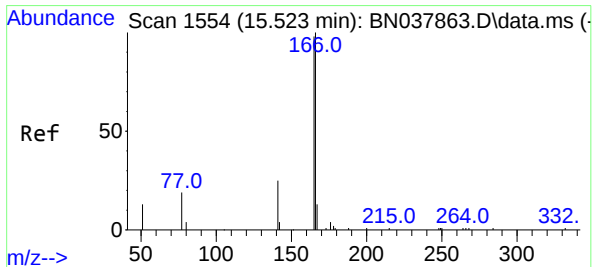
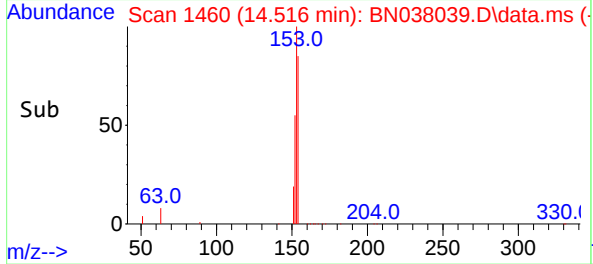
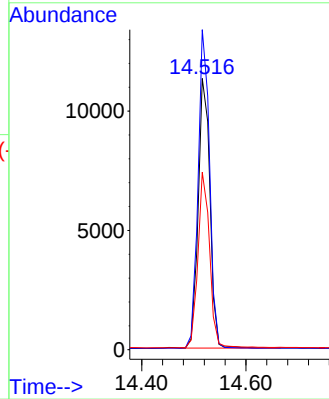
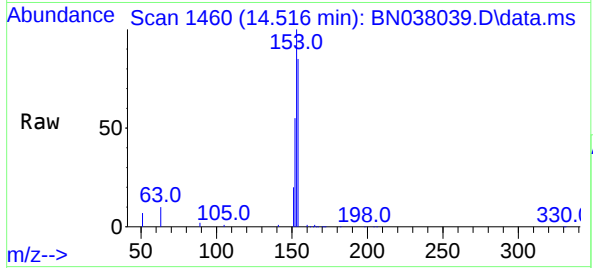




#17
Acenaphthene
Concen: 0.366 ng
RT: 14.516 min Scan# 1460
Delta R.T. -0.021 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

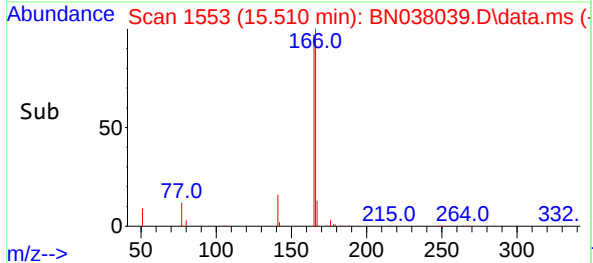
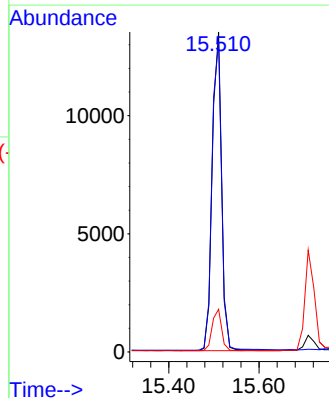
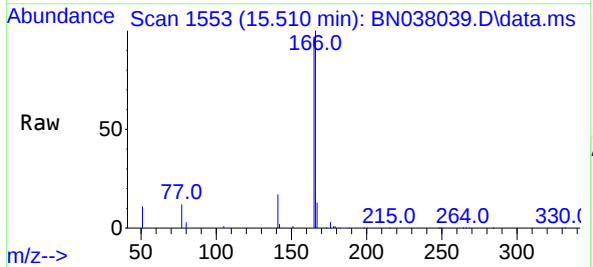
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

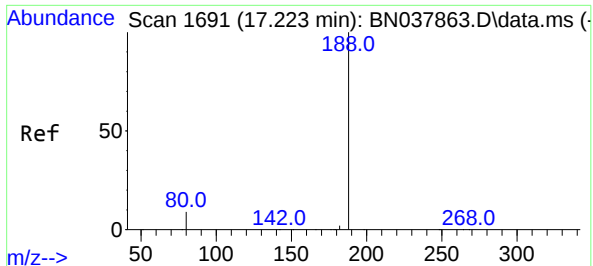
Tgt Ion:154 Resp: 17783
Ion Ratio Lower Upper
154 100
153 115.7 90.5 135.7
152 65.1 51.8 77.8



#18
Fluorene
Concen: 0.341 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.012 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:166 Resp: 20019
Ion Ratio Lower Upper
166 100
165 99.1 79.0 118.4
167 12.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

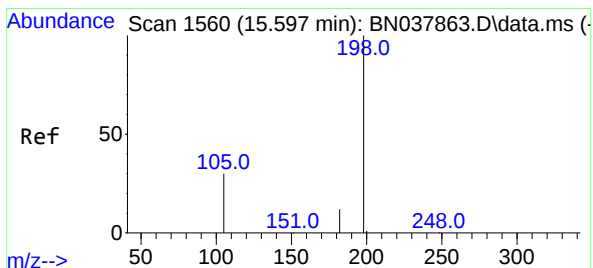
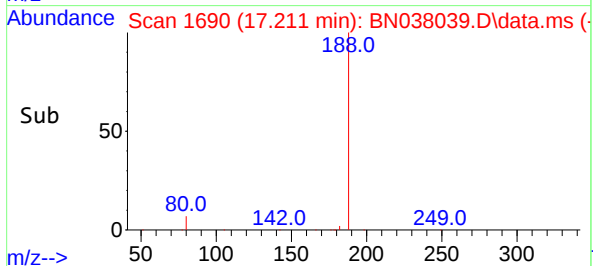
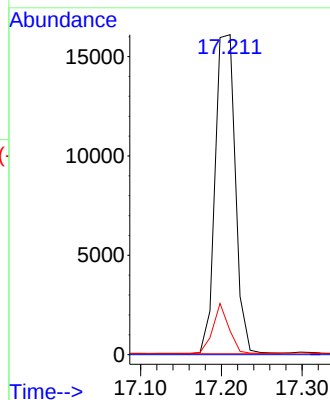
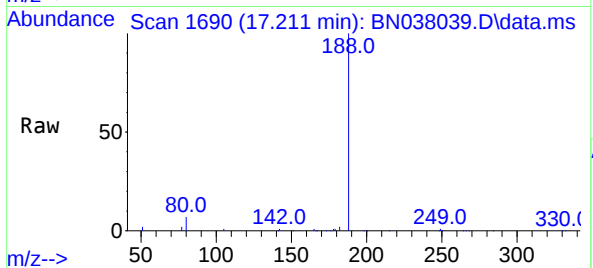
Tgt Ion:188 Resp: 27818

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.319 ng

RT: 15.585 min Scan# 1559

Delta R.T. -0.012 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

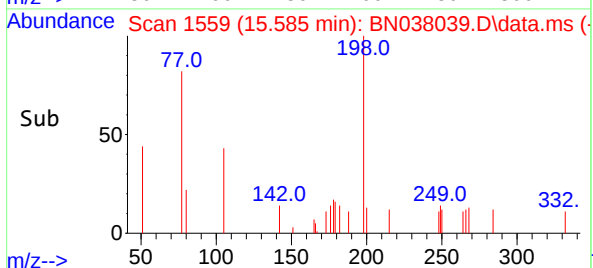
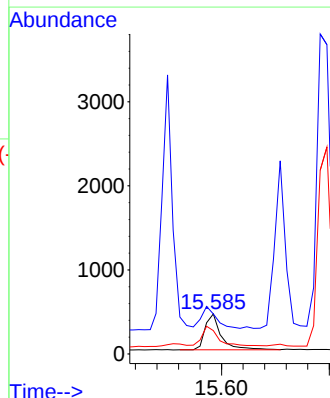
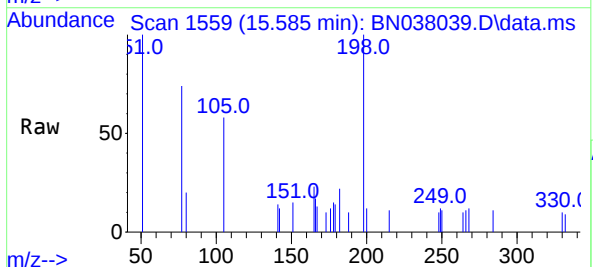
Tgt Ion:198 Resp: 893

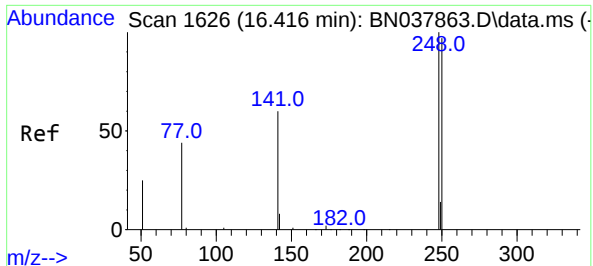
Ion Ratio Lower Upper

198 100

51 100.0 59.1 88.7#

105 58.4 41.3 61.9

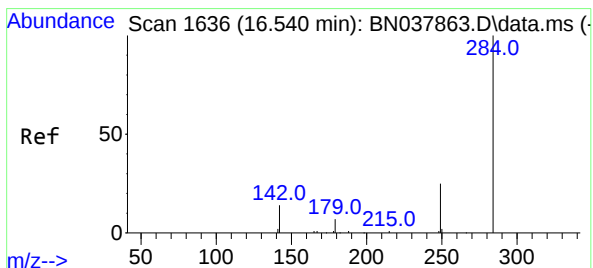
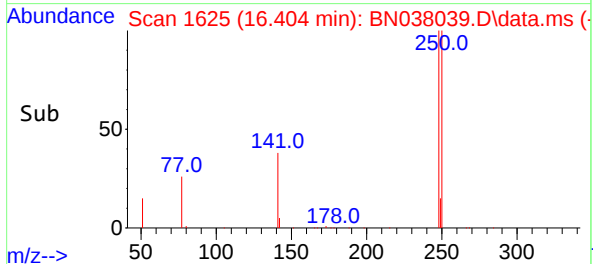
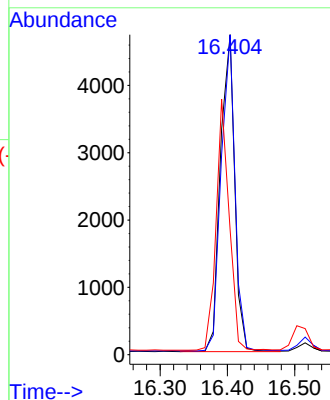
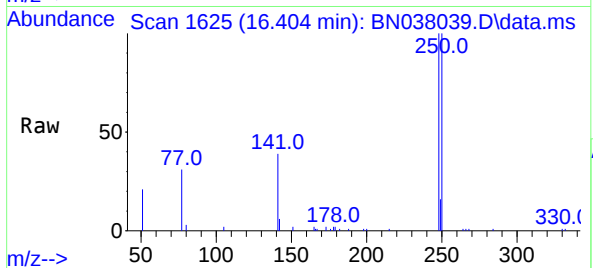




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.012 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

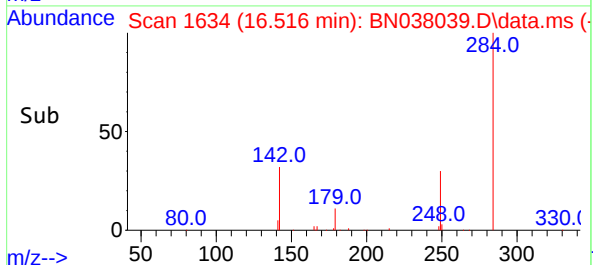
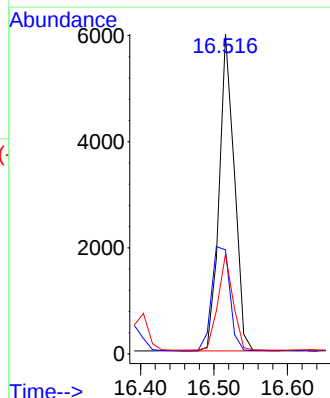
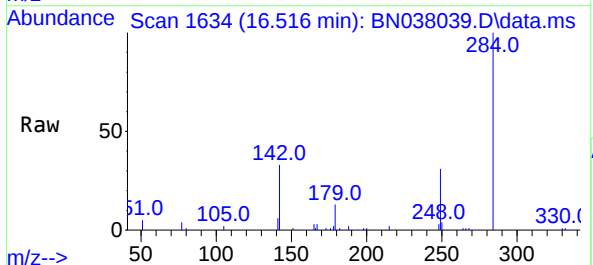
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

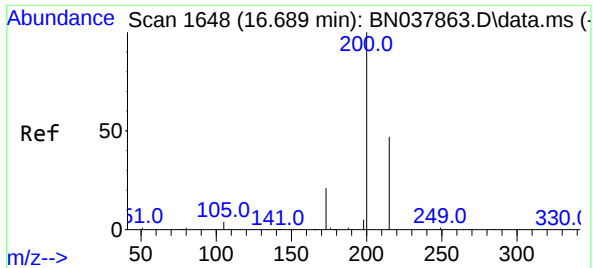
Tgt Ion:248 Resp: 6898
Ion Ratio Lower Upper
248 100
250 99.9 77.6 116.4
141 39.0 48.8 73.2#



#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.516 min Scan# 1634
Delta R.T. -0.025 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:284 Resp: 8528
Ion Ratio Lower Upper
284 100
142 39.8 30.9 46.3
249 30.1 23.9 35.9

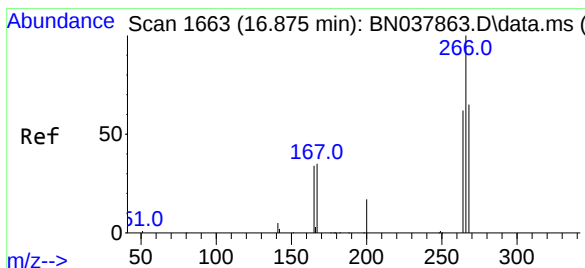
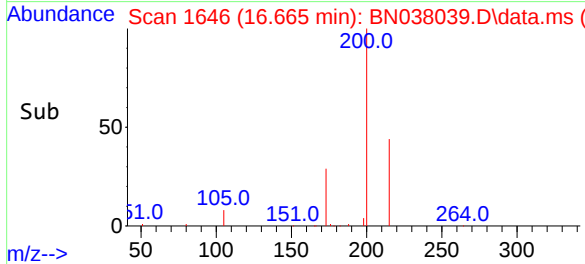
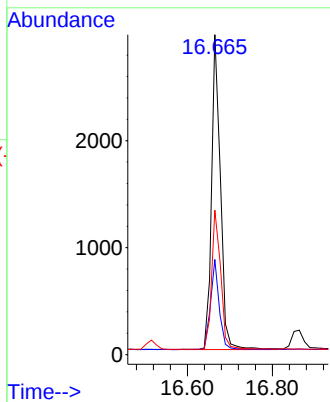
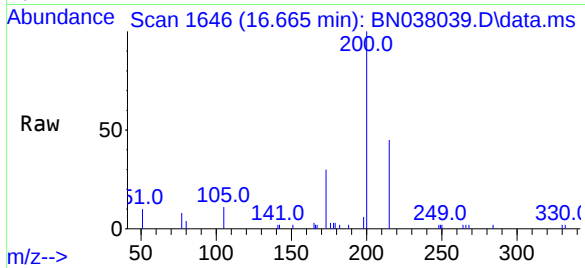




#23
Atrazine
Concen: 0.310 ng
RT: 16.665 min Scan# 1662
Delta R.T. -0.025 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

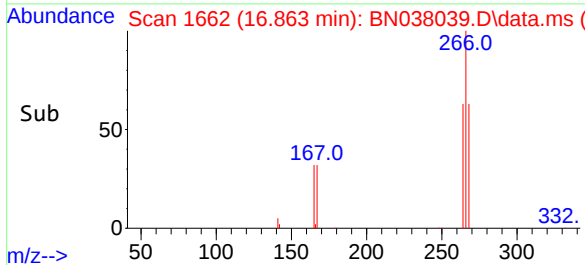
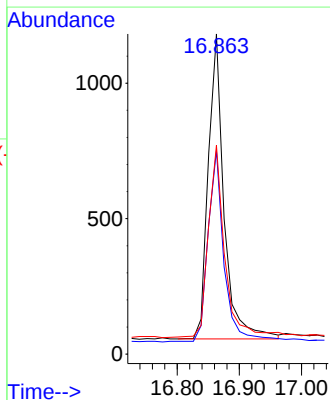
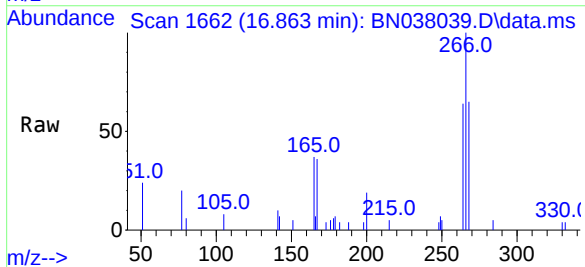
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

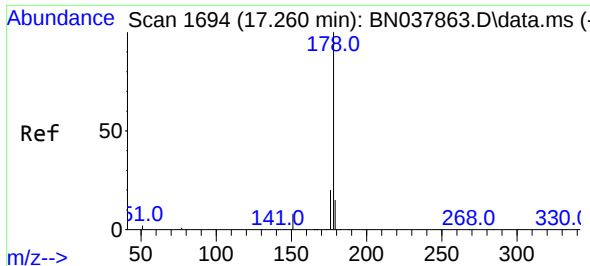
Tgt Ion:200 Resp: 4273
Ion Ratio Lower Upper
200 100
173 29.8 18.3 27.5#
215 45.1 38.6 58.0



#24
Pentachlorophenol
Concen: 0.263 ng
RT: 16.863 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:266 Resp: 1986
Ion Ratio Lower Upper
266 100
264 65.3 50.9 76.3
268 66.9 54.3 81.5

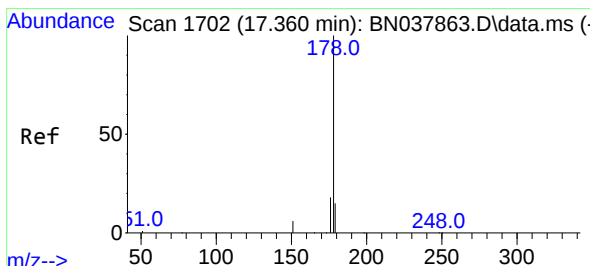
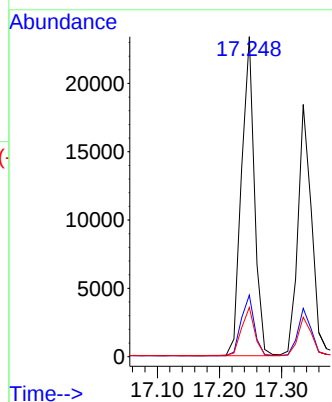
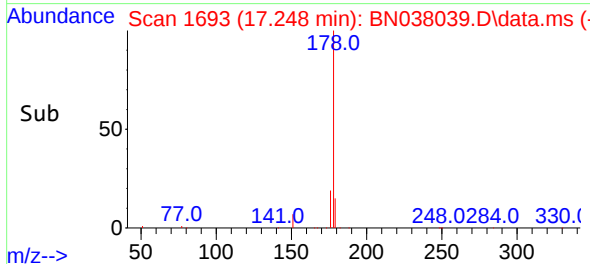
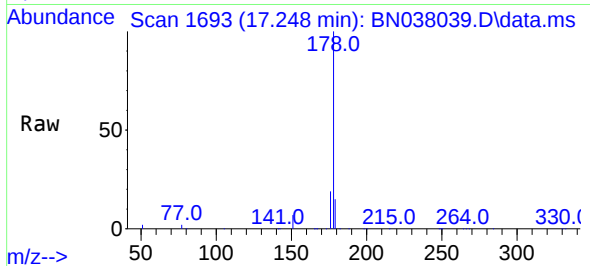




#25
Phenanthrene
Concen: 0.371 ng
RT: 17.248 min Scan# 1700
Delta R.T. -0.012 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

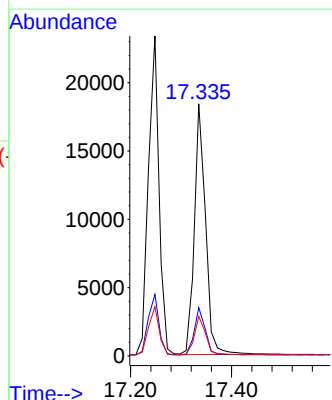
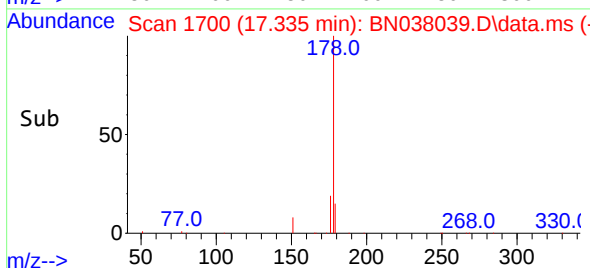
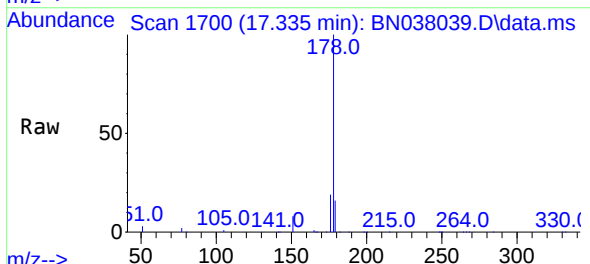
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

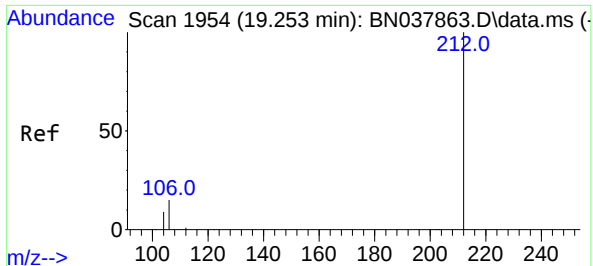
Tgt Ion:178 Resp: 33982
Ion Ratio Lower Upper
178 100
176 19.3 15.7 23.5
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.356 ng
RT: 17.335 min Scan# 1700
Delta R.T. -0.025 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:178 Resp: 28282
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.6 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.326 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

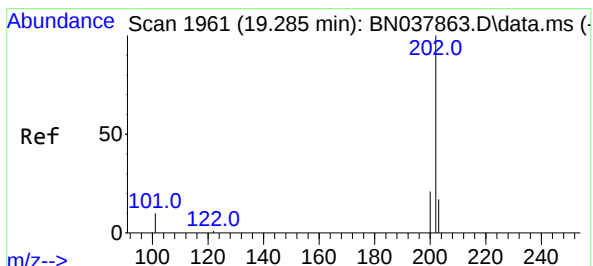
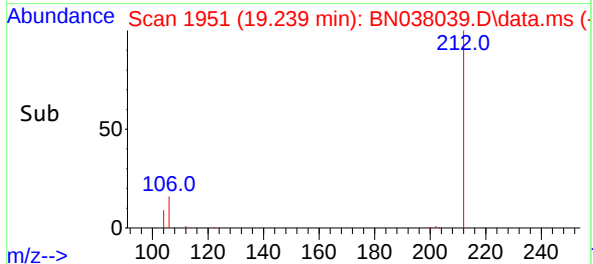
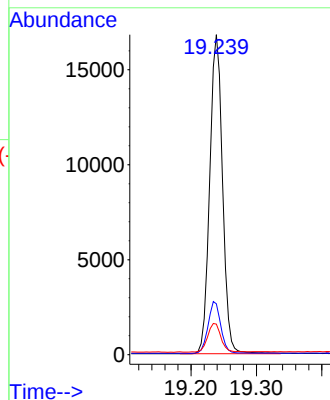
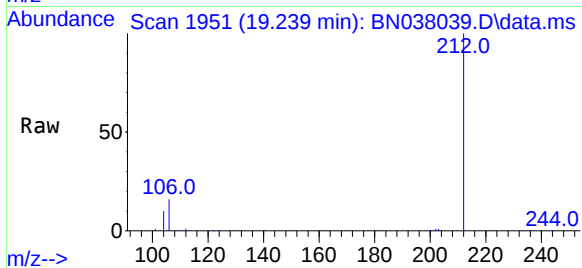
Tgt Ion:212 Resp: 22814

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.3 7.4 11.0



#28

Fluoranthene

Concen: 0.328 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.019 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

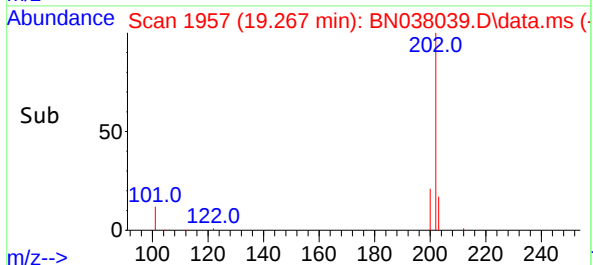
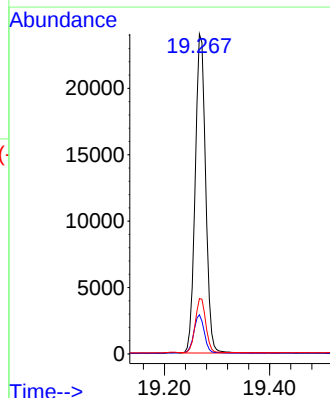
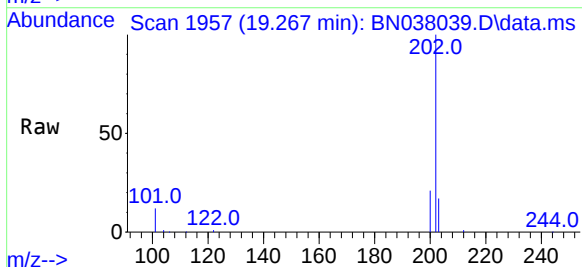
Tgt Ion:202 Resp: 33045

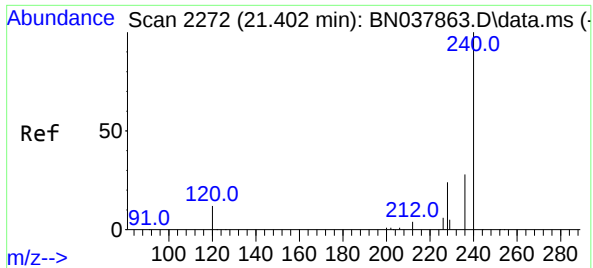
Ion Ratio Lower Upper

202 100

101 12.3 9.3 13.9

203 17.0 13.6 20.4

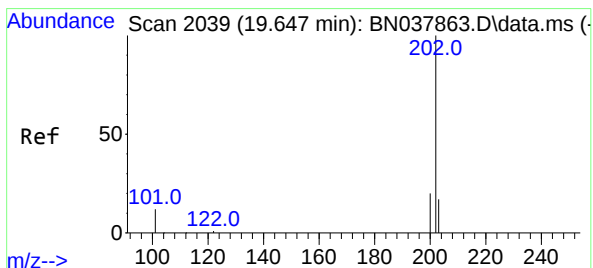
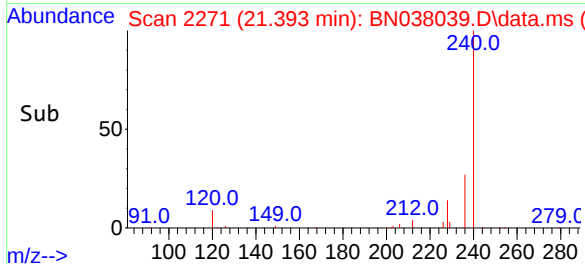
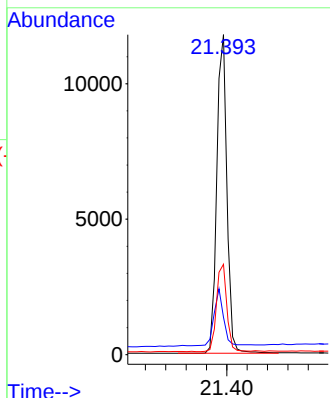
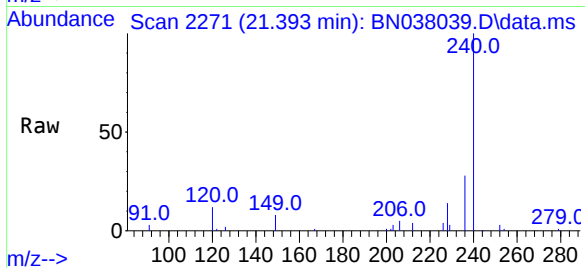




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

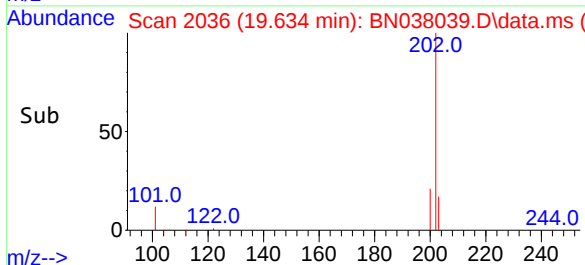
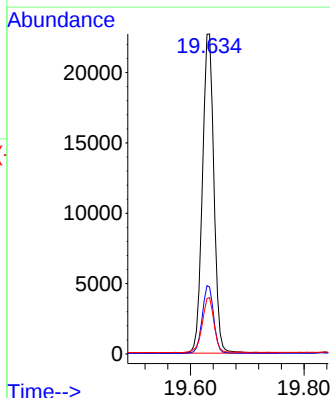
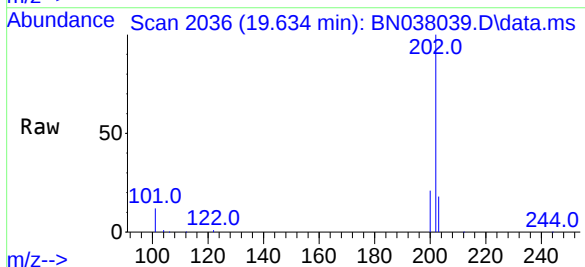
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

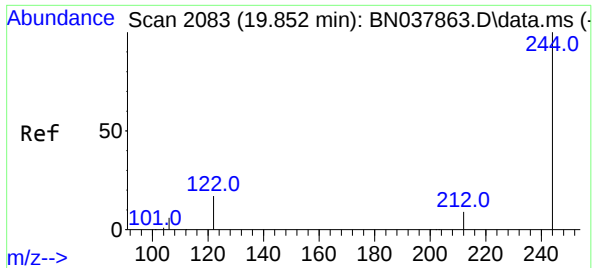
Tgt Ion:240 Resp: 16228
Ion Ratio Lower Upper
240 100
120 11.7 11.4 17.2
236 28.3 23.0 34.6



#30
Pyrene
Concen: 0.497 ng
RT: 19.634 min Scan# 2036
Delta R.T. -0.014 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:202 Resp: 31824
Ion Ratio Lower Upper
202 100
200 21.0 16.7 25.1
203 17.7 14.2 21.4

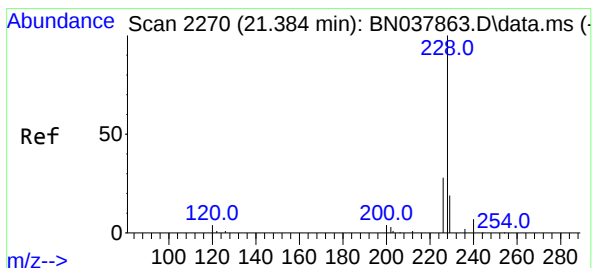
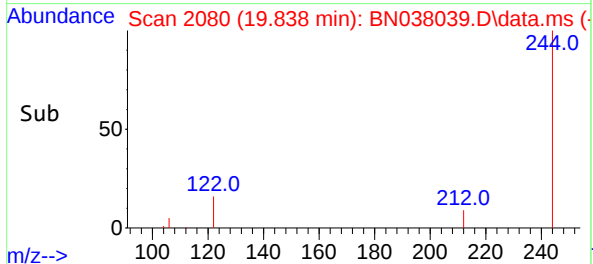
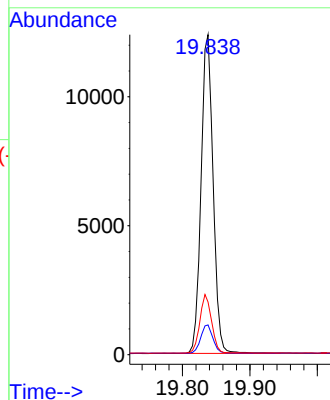
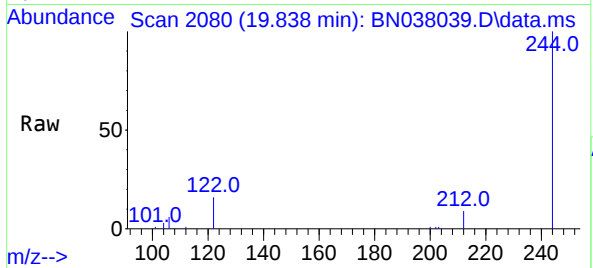




#31
Terphenyl-d14
Concen: 0.474 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

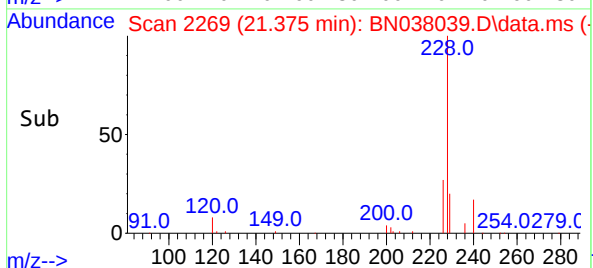
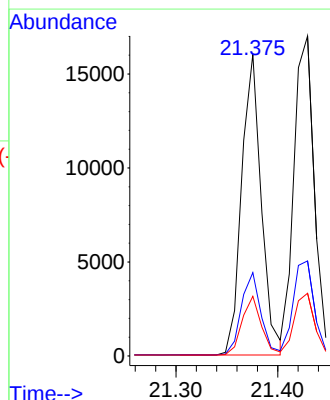
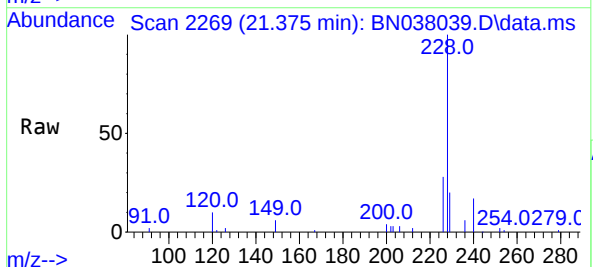
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

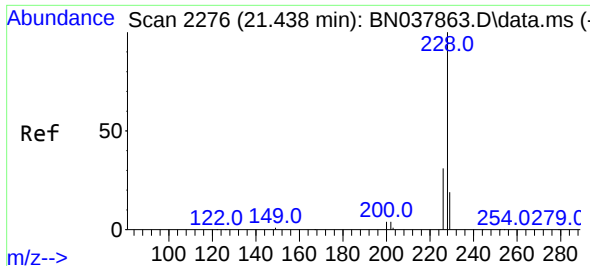
Tgt Ion:244 Resp: 15325
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 16.4 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.378 ng
RT: 21.375 min Scan# 2269
Delta R.T. -0.009 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:228 Resp: 21454
Ion Ratio Lower Upper
228 100
226 27.6 22.6 33.8
229 19.8 15.6 23.4

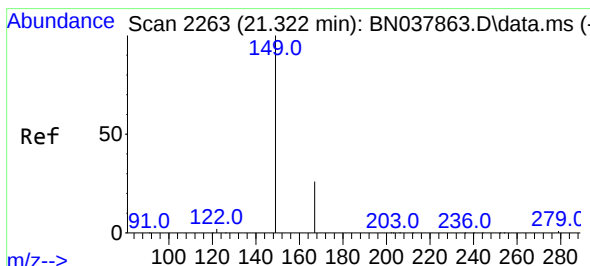
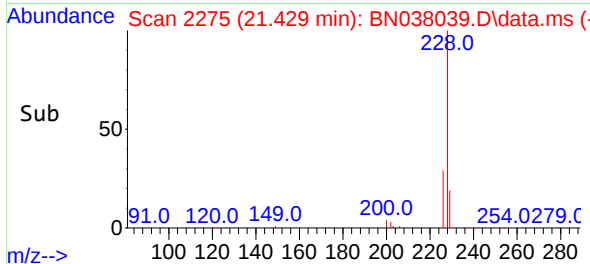
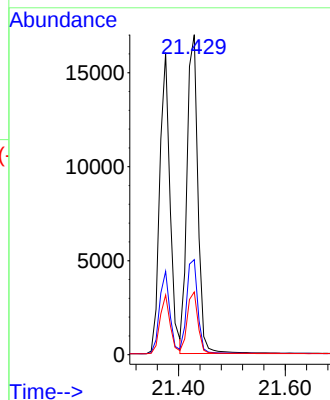
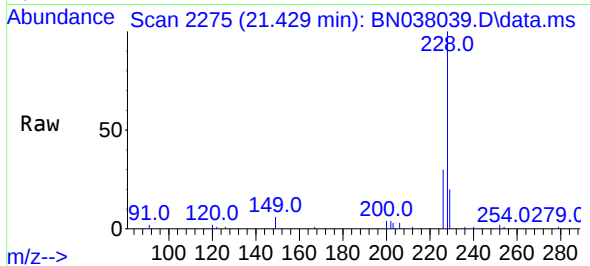




#33
Chrysene
Concen: 0.391 ng
RT: 21.429 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

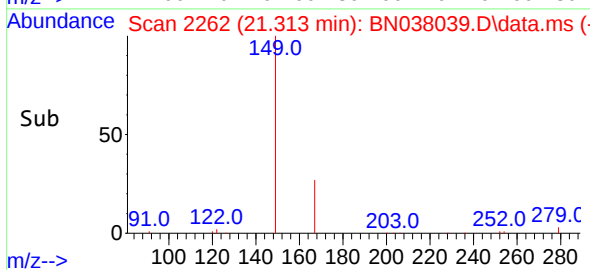
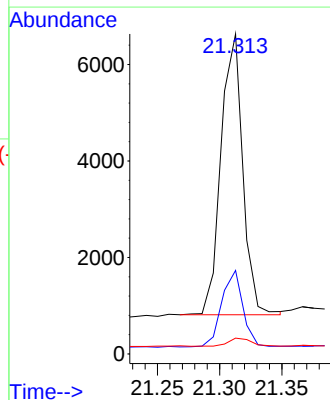
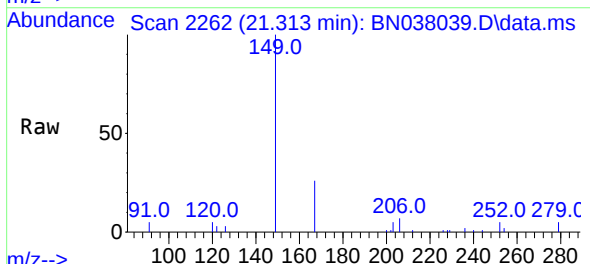
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

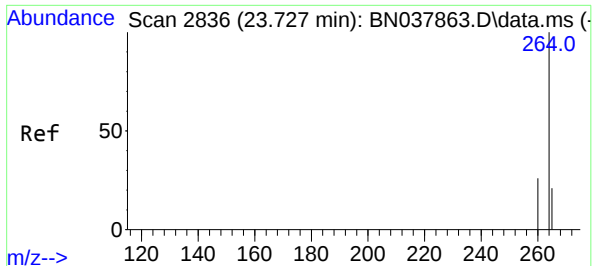
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.6	37.0
229	19.6	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.316 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.009 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

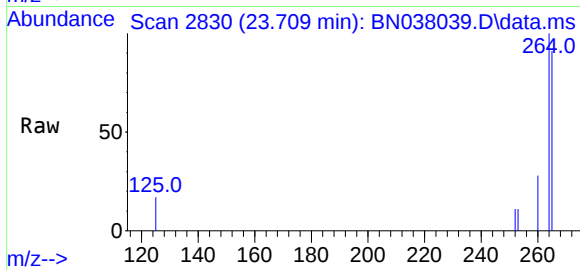
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.4	30.6
279	3.0	2.4	3.6



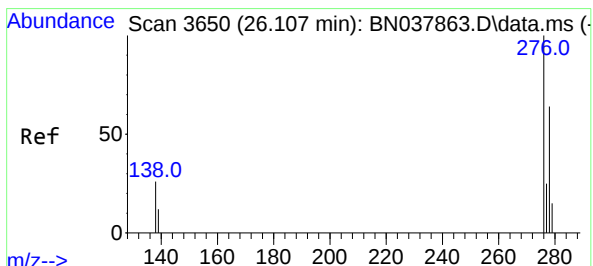
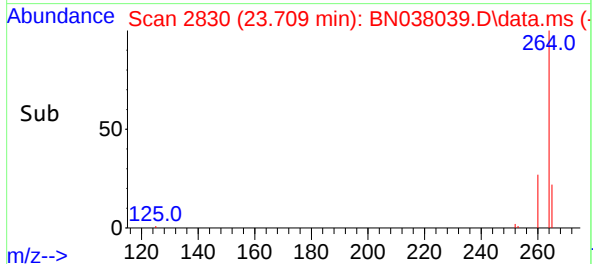
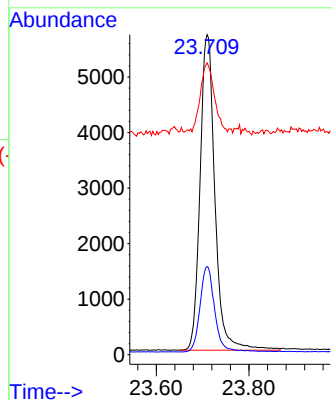


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.709 min Scan# 21
Delta R.T. -0.017 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

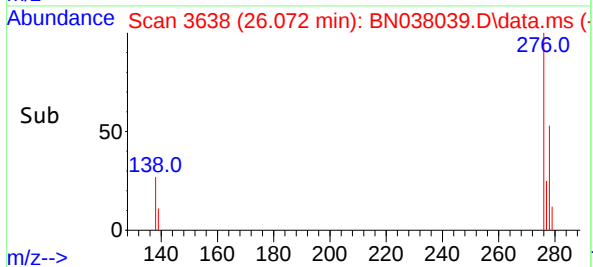
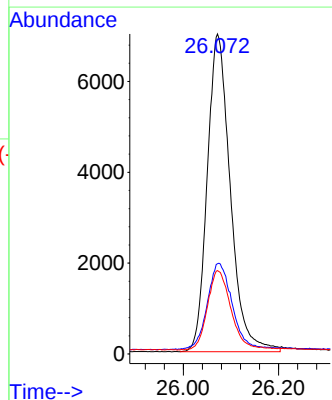
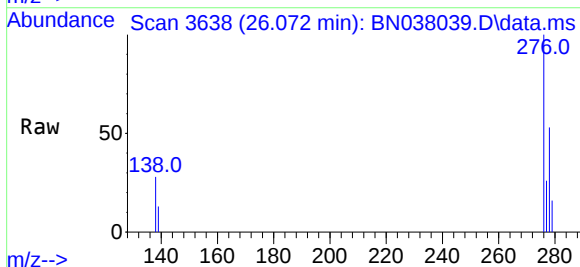


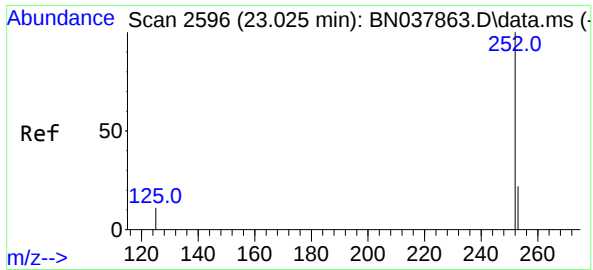
Tgt Ion:264 Resp: 12655
Ion Ratio Lower Upper
264 100
260 27.6 21.5 32.3
265 91.2 53.8 80.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.407 ng
RT: 26.072 min Scan# 3638
Delta R.T. -0.035 min
Lab File: BN038039.D
Acq: 07 Oct 2025 09:47

Tgt Ion:276 Resp: 23543
Ion Ratio Lower Upper
276 100
138 29.4 21.4 32.0
277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.398 ng

RT: 23.008 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

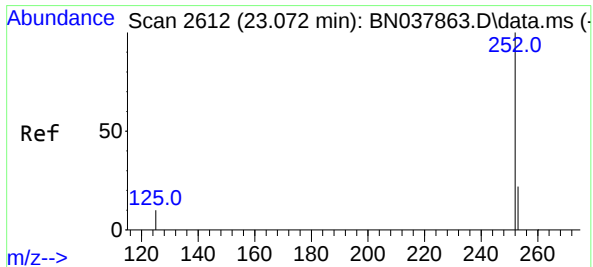
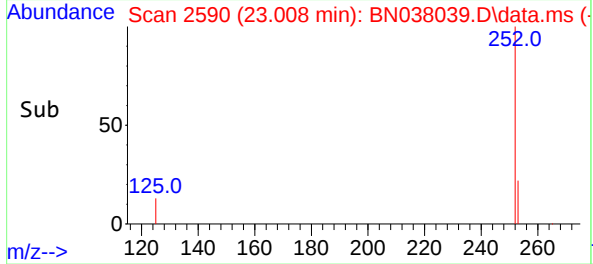
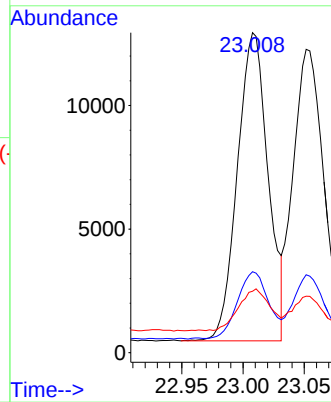
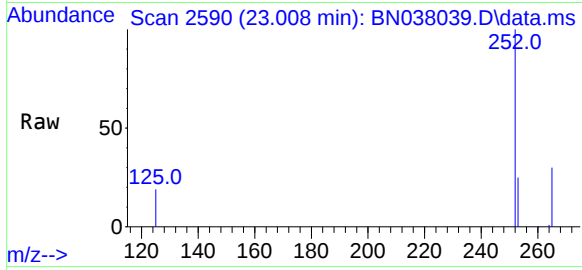
Tgt Ion:252 Resp: 21734

Ion Ratio Lower Upper

252 100

253 25.3 19.4 29.0

125 19.2 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 23.052 min Scan# 2605

Delta R.T. -0.020 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

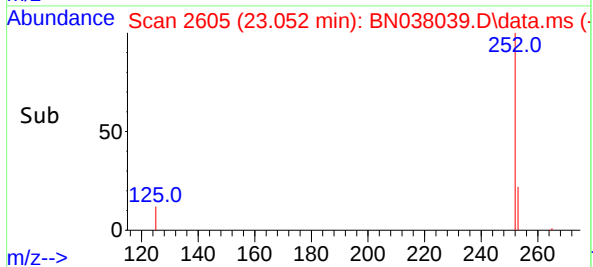
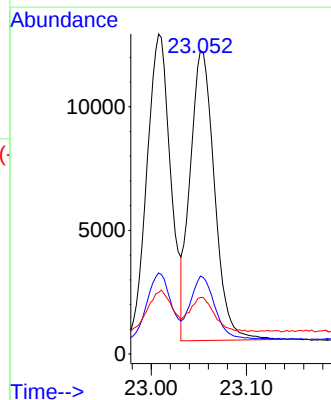
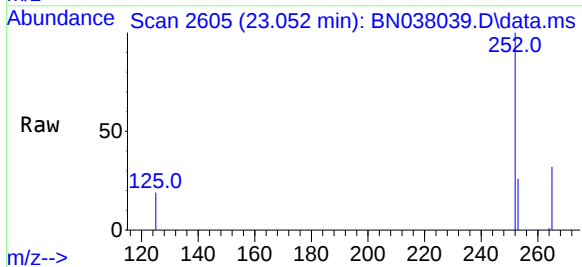
Tgt Ion:252 Resp: 20824

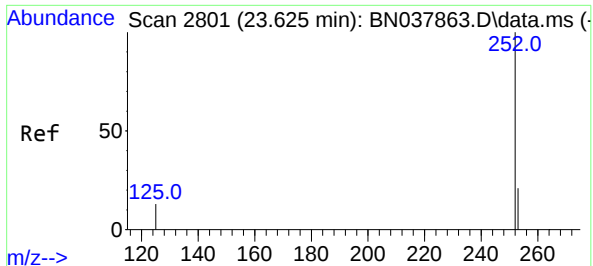
Ion Ratio Lower Upper

252 100

253 25.7 19.5 29.3

125 18.6 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.607 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

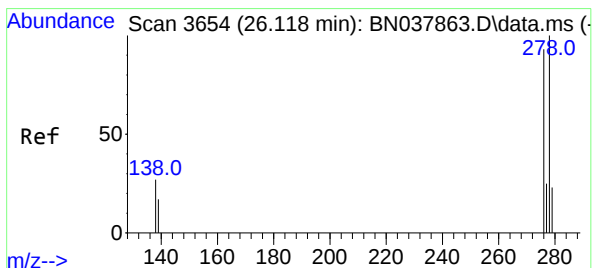
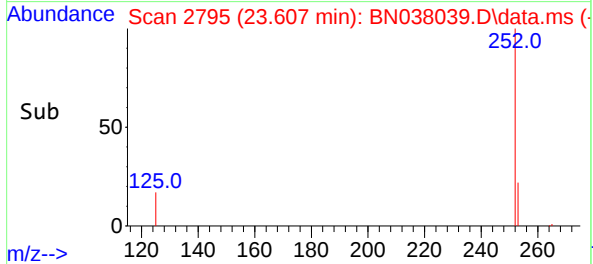
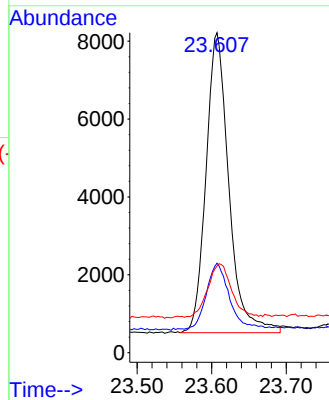
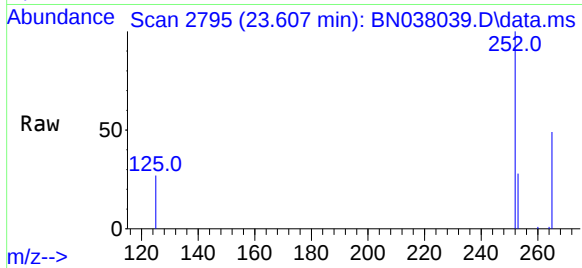
Tgt Ion:252 Resp: 16396

Ion Ratio Lower Upper

252 100

253 27.9 20.6 30.8

125 27.0 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.408 ng

RT: 26.092 min Scan# 3645

Delta R.T. -0.026 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

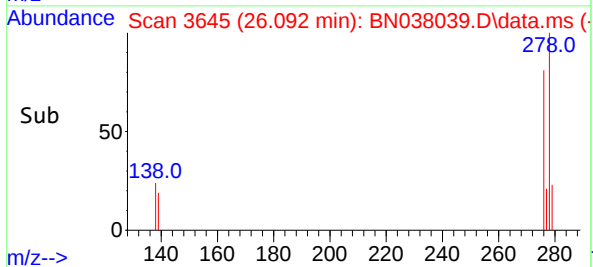
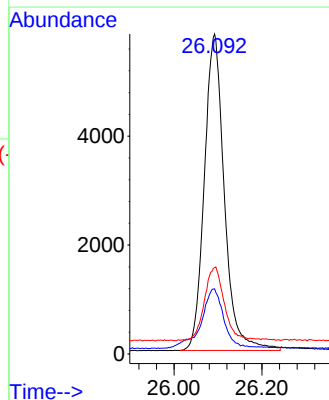
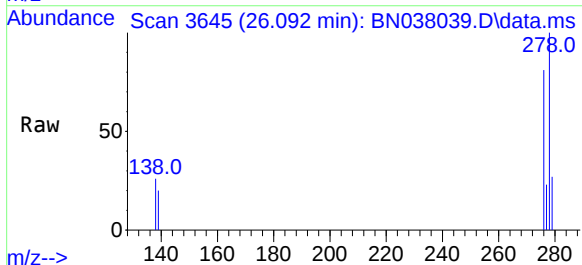
Tgt Ion:278 Resp: 18431

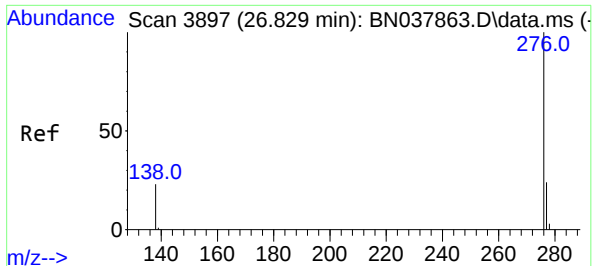
Ion Ratio Lower Upper

278 100

139 20.4 15.4 23.2

279 27.0 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.417 ng

RT: 26.797 min Scan# 3886

Delta R.T. -0.032 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

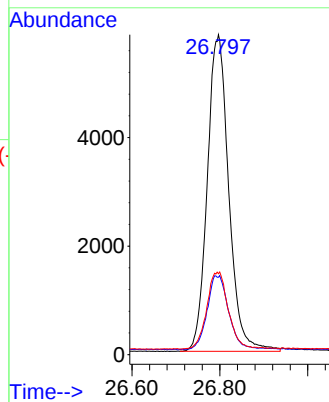
Tgt Ion:276 Resp: 19777

Ion Ratio Lower Upper

276 100

277 24.2 20.2 30.4

138 25.3 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
 Data File : BN038039.D
 Acq On : 07 Oct 2025 09:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 07 10:39:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 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	173#	-0.02
2	1,4-Dioxane	0.406	0.426	-4.9	180#	0.00
3	n-Nitrosodimethylamine	0.540	0.545	-0.9	183#	0.00
4 S	2-Fluorophenol	0.913	0.850	6.9	172#	-0.01
5 S	Phenol-d6	1.199	1.108	7.6	171#	-0.01
6	bis(2-Chloroethyl)ether	1.113	1.093	1.8	175#	-0.02
7 I	Naphthalene-d8	1.000	1.000	0.0	178#	-0.02
8 S	Nitrobenzene-d5	0.305	0.291	4.6	179#	-0.02
9	Naphthalene	1.102	1.051	4.6	179#	-0.02
10	Hexachlorobutadiene	0.188	0.185	1.6	181#	-0.02
11 SURR	2-Methylnaphthalene-d10	0.556	0.515	7.4	184#	-0.02
12	2-Methylnaphthalene	0.720	0.679	5.7	181#	-0.02
13 I	Acenaphthene-d10	1.000	1.000	0.0	182#	-0.02
14 S	2,4,6-Tribromophenol	0.152	0.117	23.0	157#	-0.02
15 S	2-Fluorobiphenyl	1.638	1.521	7.1	178#	-0.01
16	Acenaphthylene	1.816	1.702	6.3	186#	-0.02
17	Acenaphthene	1.294	1.184	8.5	180#	-0.02
18	Fluorene	1.565	1.333	14.8	167#	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	175#	-0.01
20	4,6-Dinitro-2-methylphenol	0.057	0.032	43.9#	128	-0.01
21	4-Bromophenyl-phenylether	0.261	0.248	5.0	177#	-0.01
22	Hexachlorobenzene	0.316	0.307	2.8	176#	-0.02
23	Atrazine	0.199	0.154	22.6	156#	-0.02
24	Pentachlorophenol	0.108	0.071	34.3#	135	-0.01
25	Phenanthrene	1.316	1.222	7.1	173#	-0.01
26	Anthracene	1.142	1.017	10.9	173#	-0.02
27 SURR	Fluoranthene-d10	1.006	0.820	18.5	161#	-0.01
28	Fluoranthene	1.450	1.188	18.1	158#	-0.02
29 I	Chrysene-d12	1.000	1.000	0.0	120	0.00
30	Pyrene	1.579	1.961	-24.2	154#	-0.01
31 S	Terphenyl-d14	0.797	0.944	-18.4	150	-0.01
32	Benzo(a)anthracene	1.398	1.322	5.4	122	0.00
33	Chrysene	1.512	1.478	2.2	121	0.00
34	Bis(2-ethylhexyl)phthalate	0.553	0.437	21.0	107	0.00
35 I	Perylene-d12	1.000	1.000	0.0	101	-0.02
36	Indeno(1,2,3-cd)pyrene	1.828	1.860	-1.8	113	-0.04
37	Benzo(b)fluoranthene	1.725	1.717	0.5	105	-0.02
38	Benzo(k)fluoranthene	1.736	1.646	5.2	104	-0.02
39 C	Benzo(a)pyrene	1.364	1.296	5.0	106	-0.02
40	Dibenzo(a,h)anthracene	1.427	1.456	-2.0	112	-0.03
41	Benzo(g,h,i)perylene	1.499	1.563	-4.3	112	-0.03

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
 Data File : BN038039.D
 Acq On : 07 Oct 2025 09:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Oct 07 10:39:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 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	173	-0.02
2	1,4-Dioxane	0.400	0.420	-5.0	180	0.00
3	n-Nitrosodimethylamine	0.400	0.404	-1.0	183	0.00
4 S	2-Fluorophenol	0.400	0.373	6.8	172	-0.01
5 S	Phenol-d6	0.400	0.369	7.8	171	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.393	1.8	175	-0.02
7 I	Naphthalene-d8	0.400	0.400	0.0	178	-0.02
8 S	Nitrobenzene-d5	0.400	0.382	4.5	179	-0.02
9	Naphthalene	0.400	0.381	4.8	179	-0.02
10	Hexachlorobutadiene	0.400	0.394	1.5	181	-0.02
11 SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	184	-0.02
12	2-Methylnaphthalene	0.400	0.377	5.8	181	-0.02
13 I	Acenaphthene-d10	0.400	0.400	0.0	182	-0.02
14 S	2,4,6-Tribromophenol	0.400	0.309	22.8	157	-0.02
15 S	2-Fluorobiphenyl	0.400	0.372	7.0	178	-0.01
16	Acenaphthylene	0.400	0.375	6.3	186	-0.02
17	Acenaphthene	0.400	0.366	8.5	180	-0.02
18	Fluorene	0.400	0.341	14.8	167	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	175	-0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.319	20.3	128	-0.01
21	4-Bromophenyl-phenylether	0.400	0.381	4.8	177	-0.01
22	Hexachlorobenzene	0.400	0.388	3.0	176	-0.02
23	Atrazine	0.400	0.310	22.5	156	-0.02
24	Pentachlorophenol	0.400	0.263	34.3#	135	-0.01
25	Phenanthrene	0.400	0.371	7.3	173	-0.01
26	Anthracene	0.400	0.356	11.0	173	-0.02
27 SURR	Fluoranthene-d10	0.400	0.326	18.5	161	-0.01
28	Fluoranthene	0.400	0.328	18.0	158	-0.02
29 I	Chrysene-d12	0.400	0.400	0.0	120	0.00
30	Pyrene	0.400	0.497	-24.2	154	-0.01
31 S	Terphenyl-d14	0.400	0.474	-18.5	150	-0.01
32	Benzo(a)anthracene	0.400	0.378	5.5	122	0.00
33	Chrysene	0.400	0.391	2.3	121	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.316	21.0	107	0.00
35 I	Perylene-d12	0.400	0.400	0.0	101	-0.02
36	Indeno(1,2,3-cd)pyrene	0.400	0.407	-1.7	113	-0.04
37	Benzo(b)fluoranthene	0.400	0.398	0.5	105	-0.02
38	Benzo(k)fluoranthene	0.400	0.379	5.3	104	-0.02
39 C	Benzo(a)pyrene	0.400	0.380	5.0	106	-0.02
40	Dibenzo(a,h)anthracene	0.400	0.408	-2.0	112	-0.03
41	Benzo(g,h,i)perylene	0.400	0.417	-4.2	112	-0.03

(#) = Out of Range

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



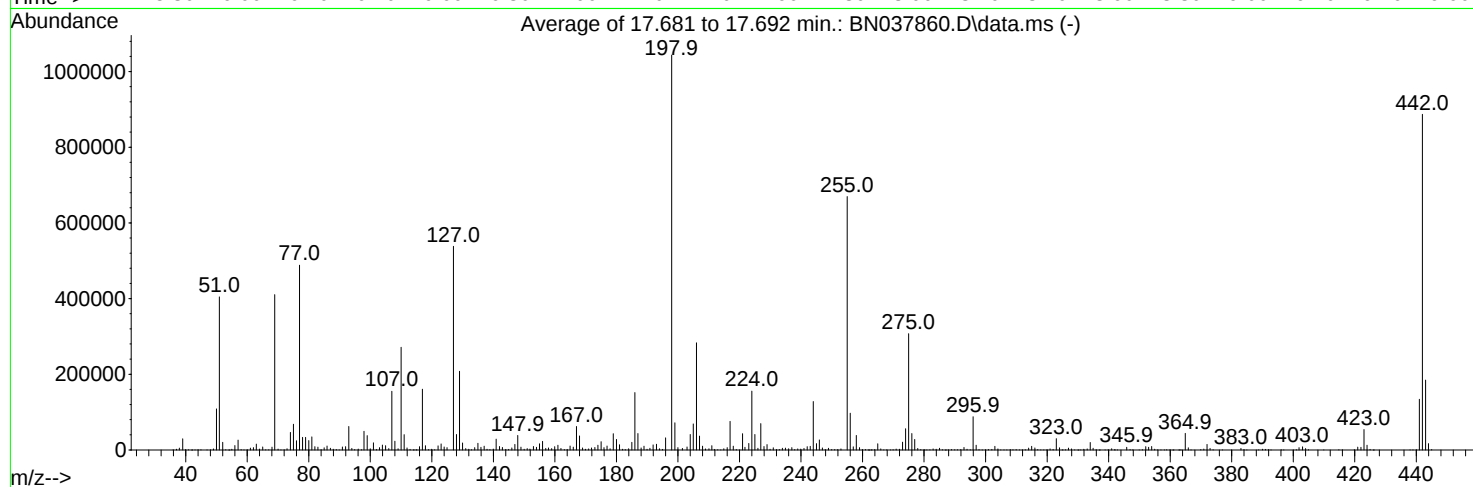
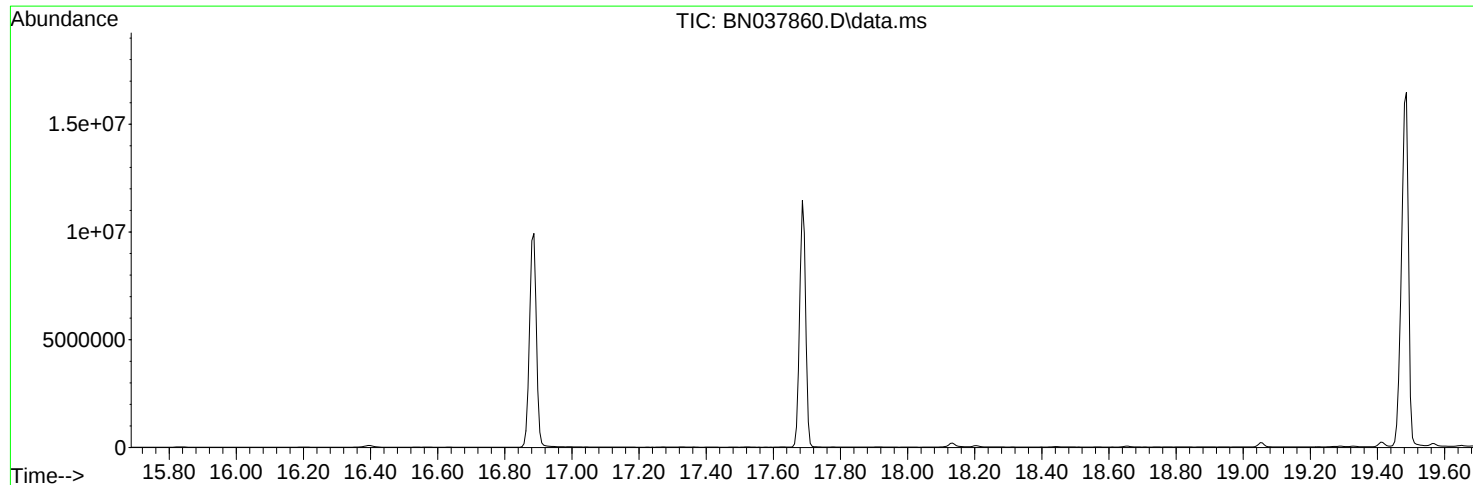
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
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-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Sep 23 17:30:29 2025



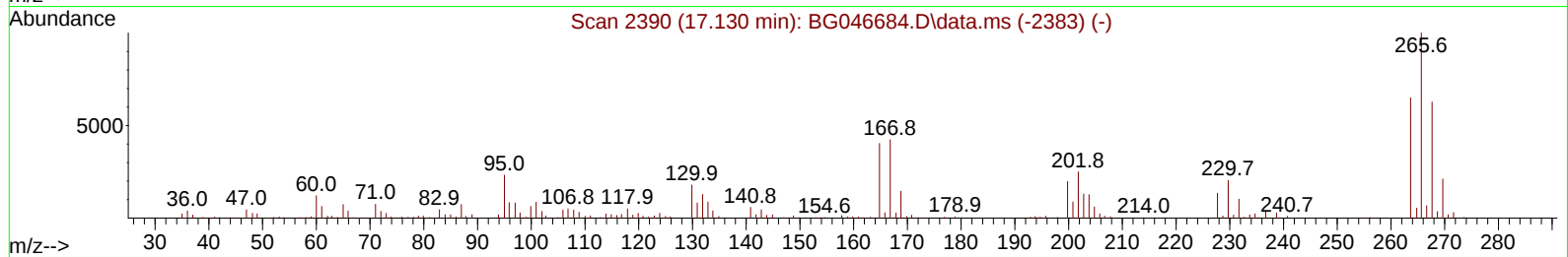
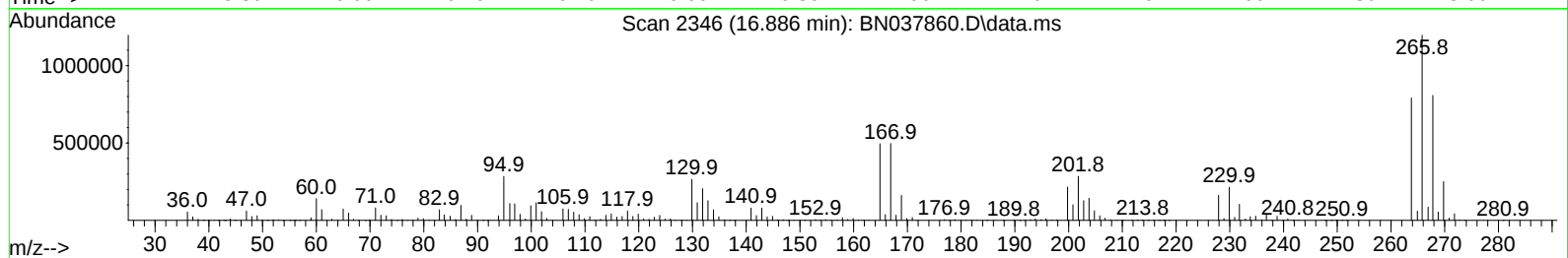
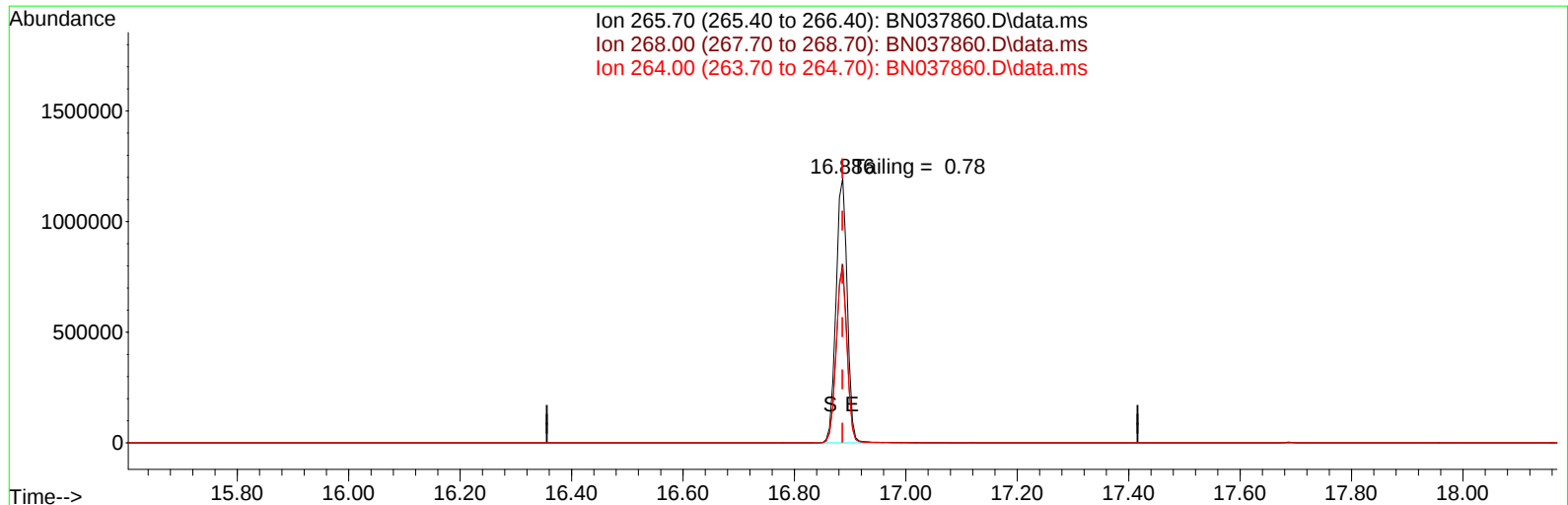
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	7592	PASS
69	69	100	100	100.0	410472	PASS
70	69	0.00	2	0.6	2535	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1043541	PASS
199	198	5	9	6.9	71928	PASS
365	198	1	100	4.2	43627	PASS
441	443	0.01	150	72.6	133917	PASS
442	442	100	100	100.0	886933	PASS
443	442	15	24	20.8	184525	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 23 19:20:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037860.D\data.ms

(70) Pentachlorophenol (C)

16.886min (+ 0.001) 30744.23 ng

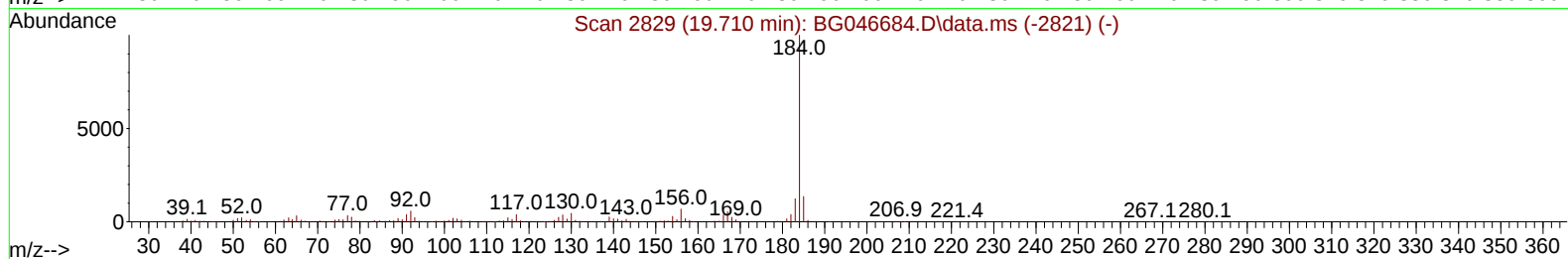
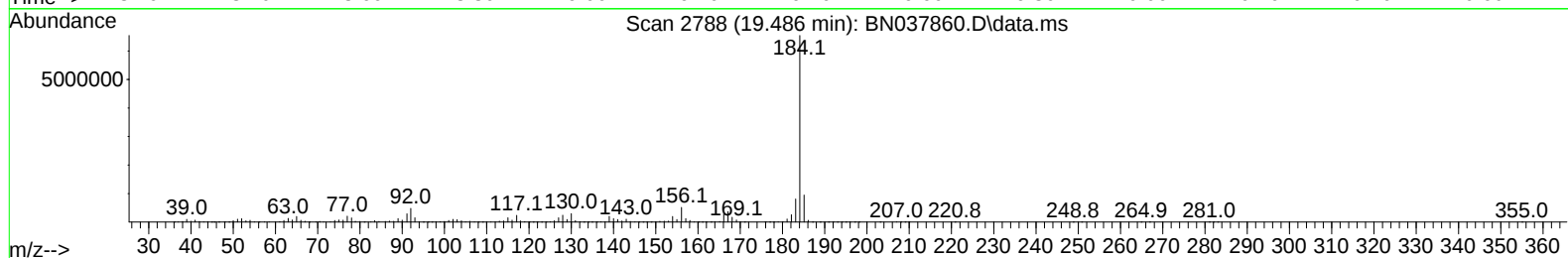
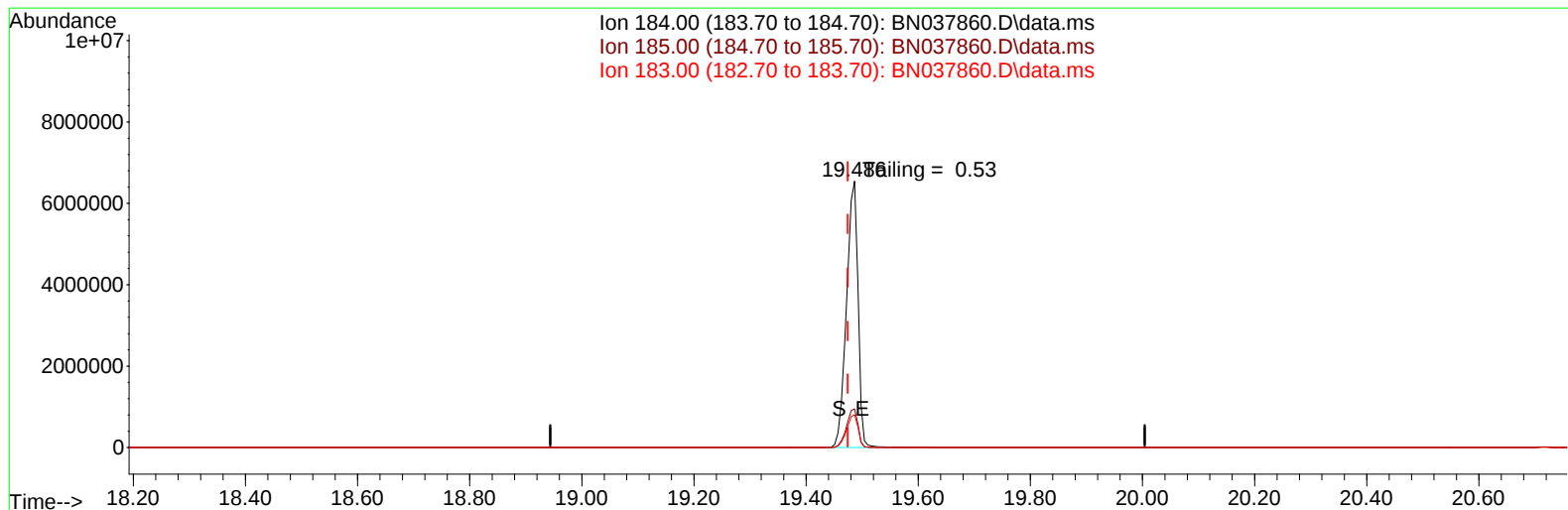
response 1679260

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	67.46
264.00	61.60	66.17
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092325\
Data File : BN037860.D
Acq On : 23 Sep 2025 11:33
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 23 19:20:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 20 01:53:13 2025
Response via : Initial Calibration



TIC: BN037860.D\data.ms

(77) Benzdine**19.486min (+ 0.012) 0.00 ng****response 9413593**

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.50
183.00	13.20	12.37
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

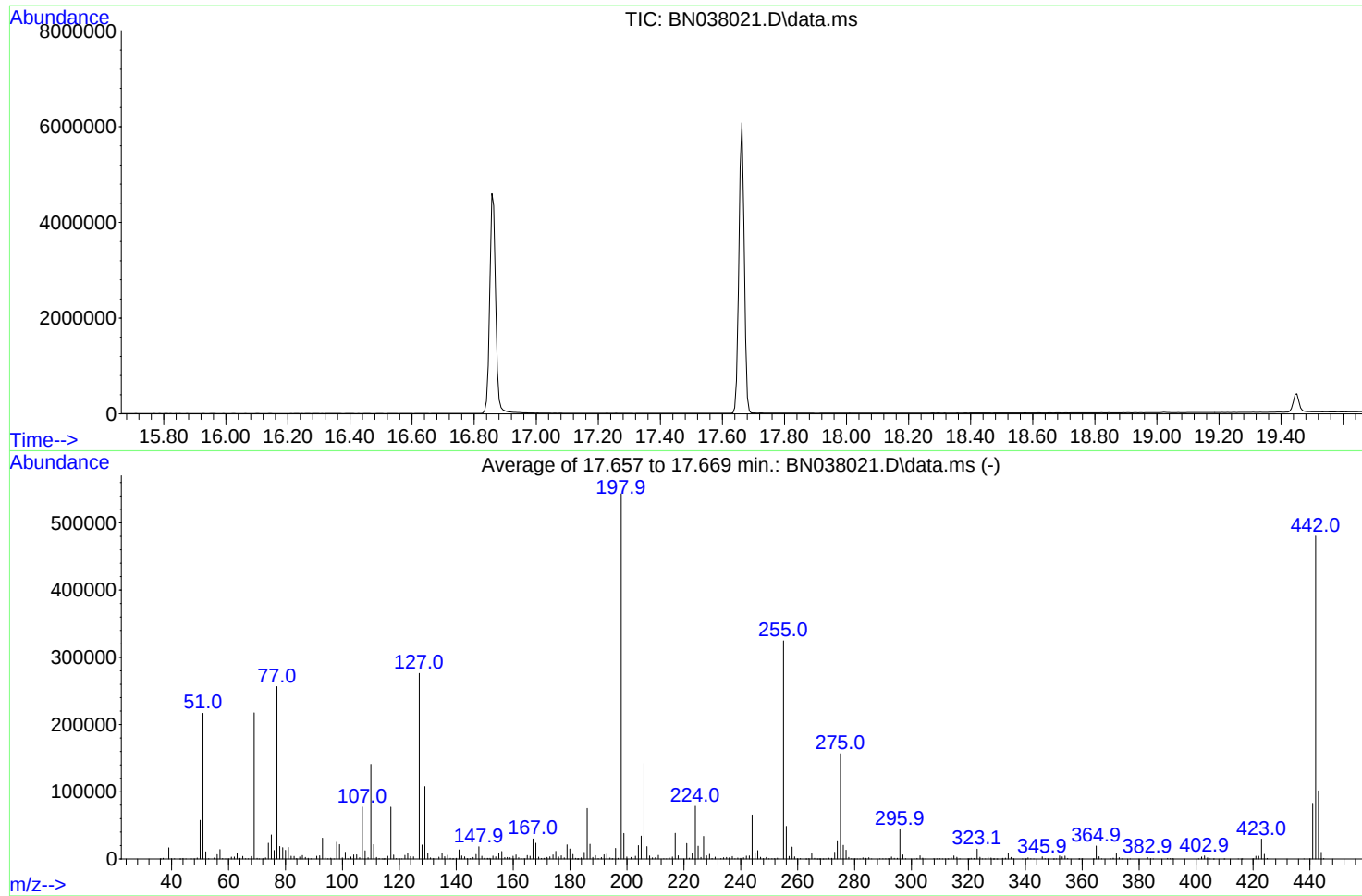
Date	Instrument Name	DFTPP Data File
9/23/2025	BNA_N	<u>BN037860.D</u>
Compound Name	Response	Retention Time
DDT	4305996	20.716
DDD	11703	20.327
DDE	258	19.769
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
11961	4317957	0.28

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038021.D
Acq On : 06 Oct 2025 22:13
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-BN092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 11:00:01 2025



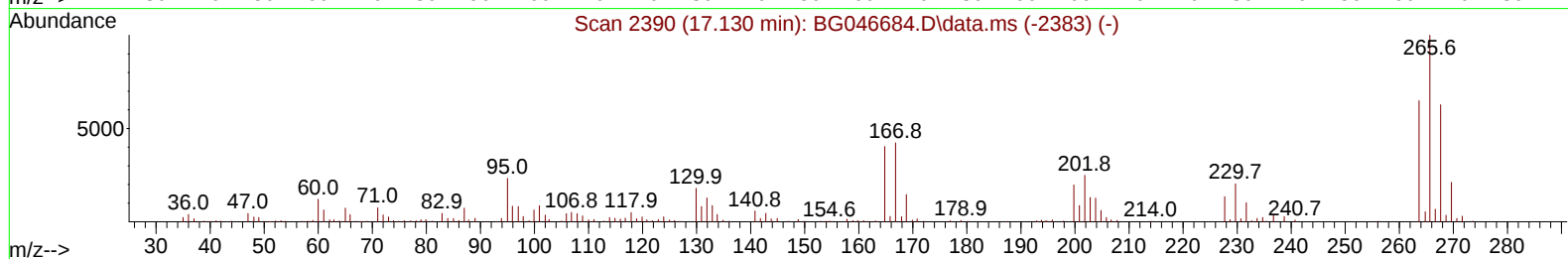
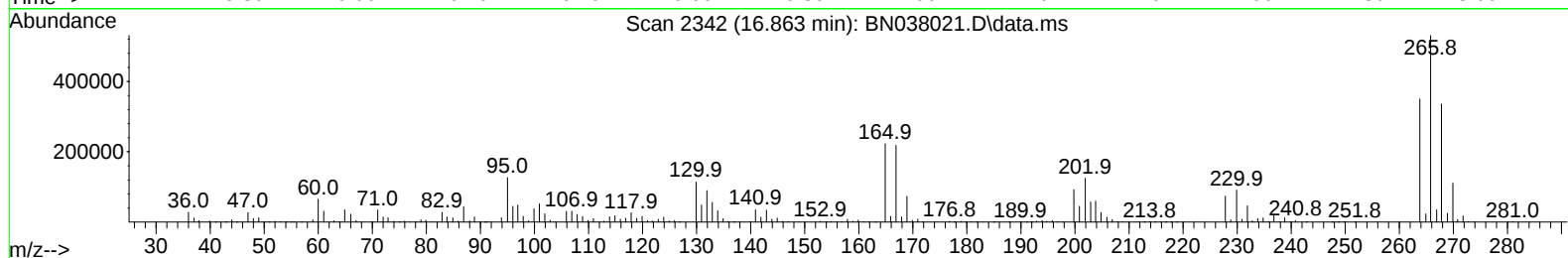
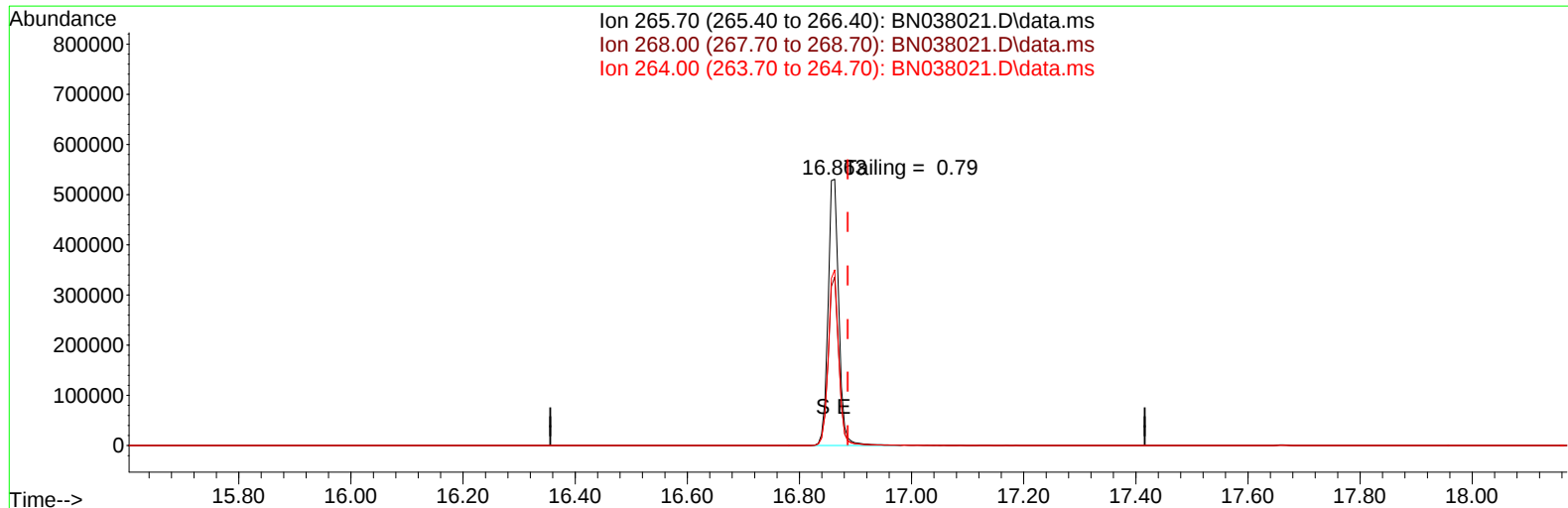
AutoFind: Scans 2477, 2478, 2479; Background Corrected with Scan 2469

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.8	3833	PASS
69	69	100	100	100.0	217387	PASS
70	69	0.00	2	0.5	1053	PASS
197	198	0.00	2	0.2	1130	PASS
198	198	100	100	100.0	543040	PASS
199	198	5	9	7.0	38141	PASS
365	198	1	100	3.5	19270	PASS
441	443	0.01	150	81.7	82901	PASS
442	442	100	100	100.0	480363	PASS
443	442	15	24	21.1	101427	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038021.D
Acq On : 06 Oct 2025 22:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 07 01:36:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 29 10:34:59 2025
Response via : Initial Calibration



TIC: BN038021.D\data.ms

(70) Pentachlorophenol (C)

16.863min (-0.023) 25768.22 ng

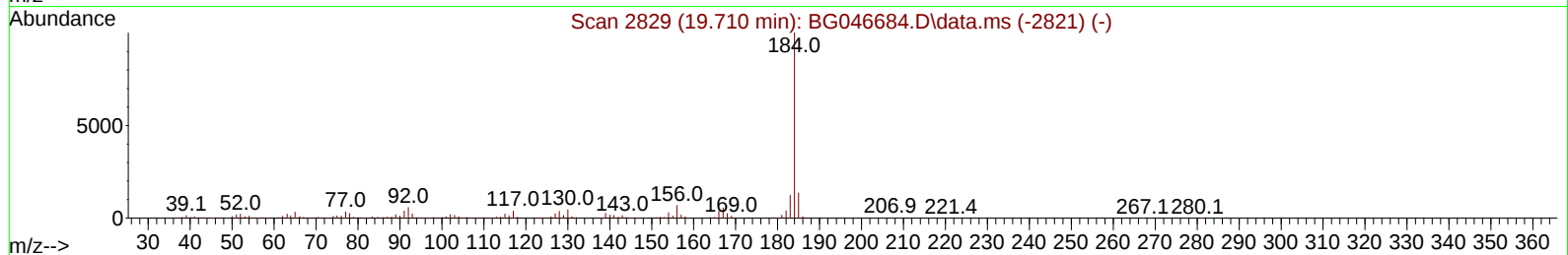
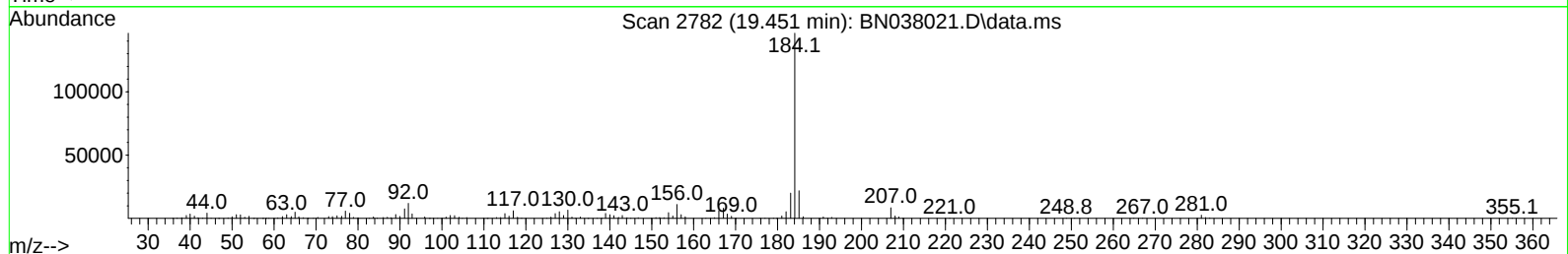
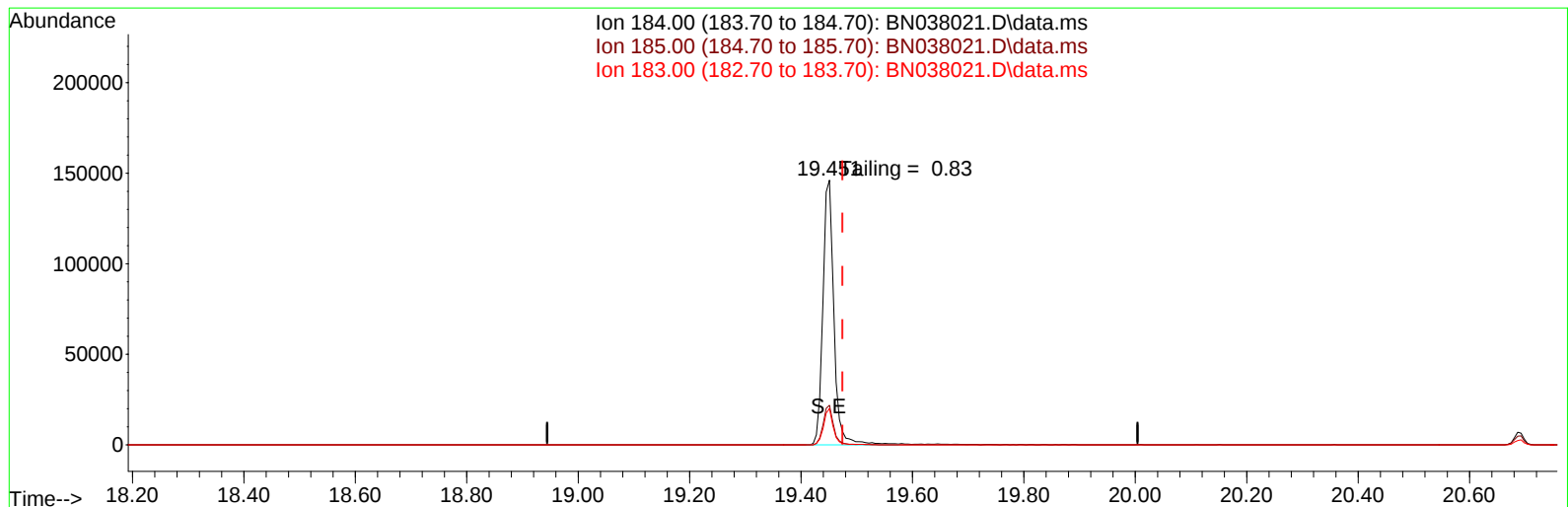
response 704341

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.25
264.00	61.60	65.95
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038021.D
Acq On : 06 Oct 2025 22:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Oct 07 01:36:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 29 10:34:59 2025
Response via : Initial Calibration



TIC: BN038021.D\data.ms

(77) Benzidine

19.451min (-0.023) 0.00 ng

response 201168

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.96
183.00	13.20	13.71
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
10/6/2025	BNA_N	<u>BN038021.D</u>
Compound Name	Response	Retention Time
DDT	1680193	20.698
DDD	6164	20.315
DDE	438	19.757
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6602	1686795	0.39

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169904BL	SDG No.:	Q3213
Lab Sample ID:	PB169904BL	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
BN038023.D	1	09/26/25 13:15	10/07/25 00:08	PB169904

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	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		70%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		53 - 106		94%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		104%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7850	7.804				
1146-65-2	Naphthalene-d8	20700	10.605				
15067-26-2	Acenaphthene-d10	9110	14.462				
1517-22-2	Phenanthrene-d10	15300	17.211				
1719-03-5	Chrysene-d12	8020	21.384				
1520-96-3	Perylene-d12	7900	23.706				

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\BN100625\
Data File : BN038023.D
Acq On : 07 Oct 2025 00:08
Operator : RC/JU
Sample : PB169904BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169904BL

Quant Time: Oct 07 01:54:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	7850	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	20745	0.400	ng	-0.02
13) Acenaphthene-d10	14.462	164	9107	0.400	ng	-0.01
19) Phenanthrene-d10	17.211	188	15264	0.400	ng	-0.01
29) Chrysene-d12	21.384	240	8024	0.400	ng	#-0.02
35) Perylene-d12	23.706	264	7902	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	6434	0.359	ng	0.00
5) Phenol-d6	6.966	99	7875	0.335	ng	0.00
8) Nitrobenzene-d5	8.950	82	5676	0.359	ng	-0.02
11) 2-Methylnaphthalene-d10	12.202	152	9416	0.327	ng	-0.02
14) 2,4,6-Tribromophenol	15.957	330	816	0.236	ng	-0.01
15) 2-Fluorobiphenyl	13.083	172	13974	0.375	ng	-0.01
27) Fluoranthene-d10	19.239	212	10714	0.279	ng	-0.01
31) Terphenyl-d14	19.838	244	6667	0.417	ng	-0.01

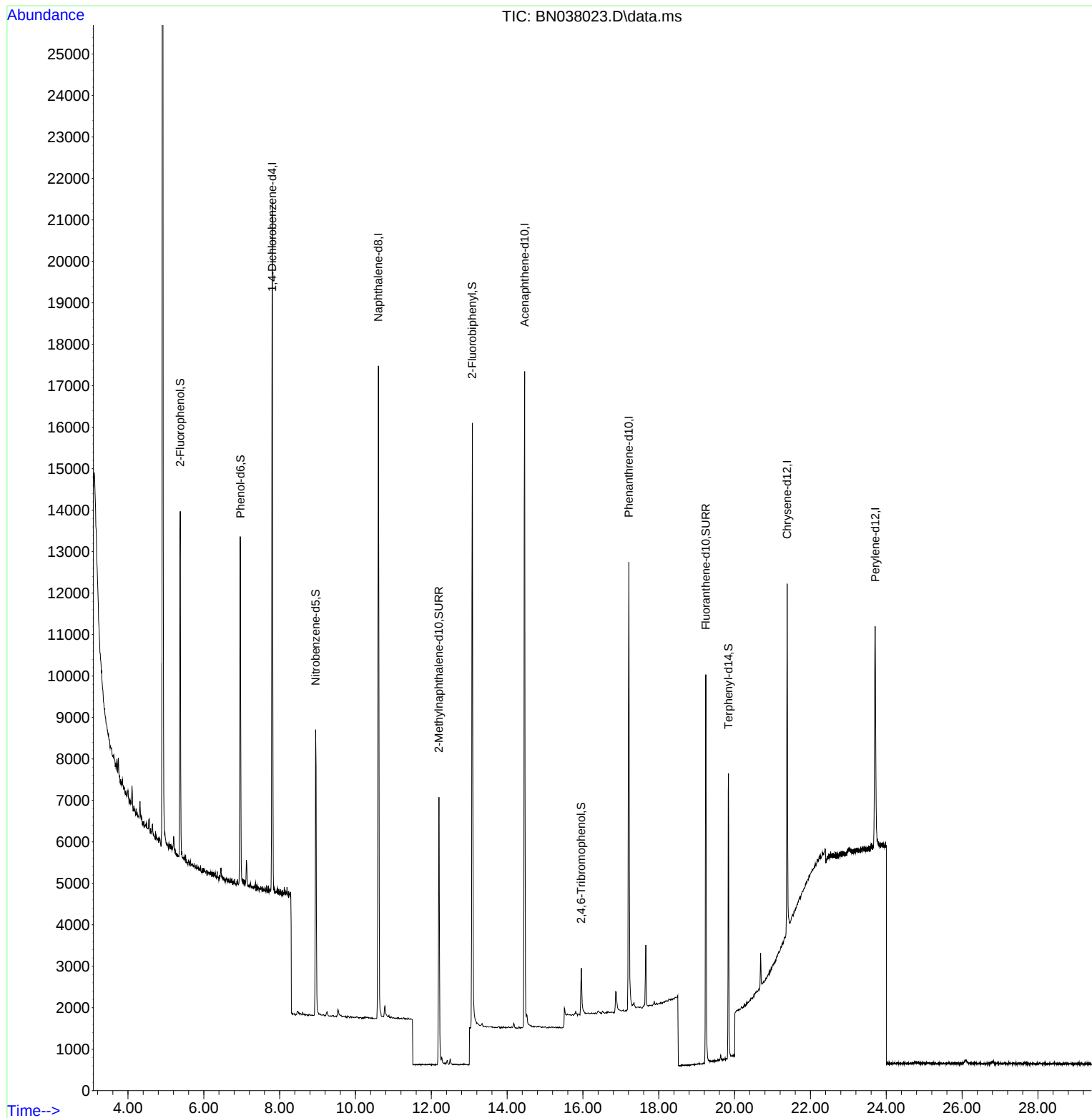
Target Compounds	Qvalue

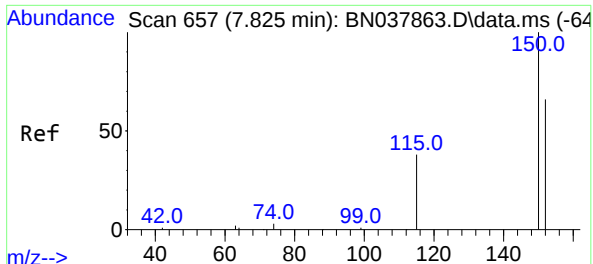
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038023.D
Acq On : 07 Oct 2025 00:08
Operator : RC/JU
Sample : PB169904BL
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169904BL

Quant Time: Oct 07 01:54:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

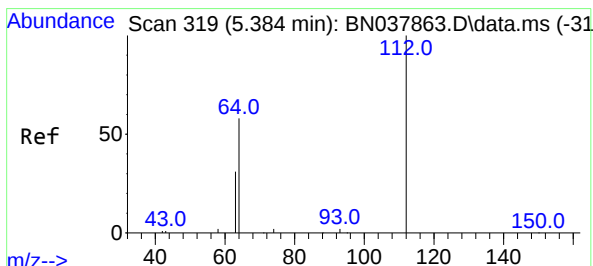
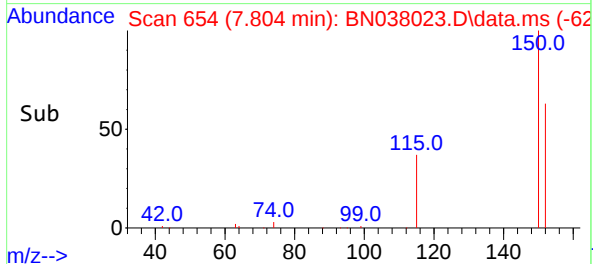
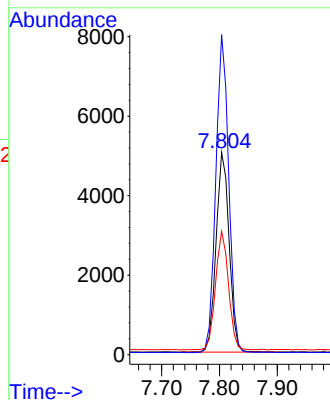
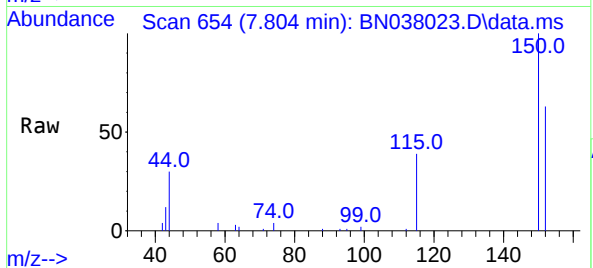




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.804 min Scan# 61
Delta R.T. -0.021 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

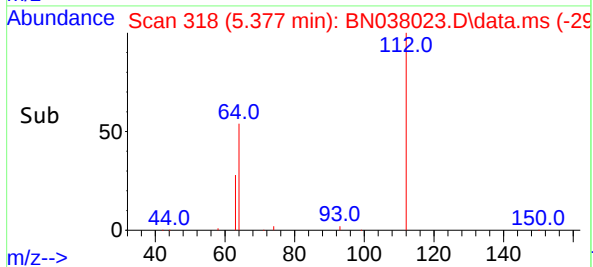
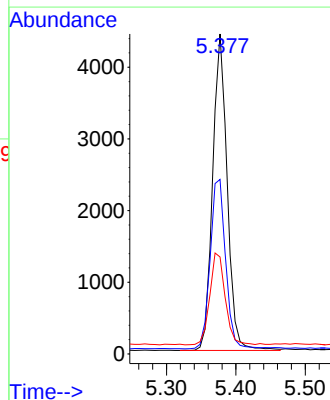
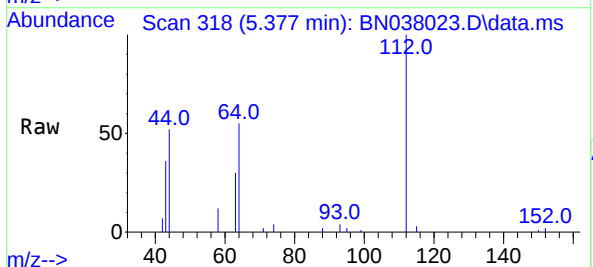
Instrument :
BNA_N
ClientSampleId :
PB169904BL

Tgt Ion:152 Resp: 7850
Ion Ratio Lower Upper
152 100
150 158.3 121.0 181.4
115 61.0 47.4 71.0

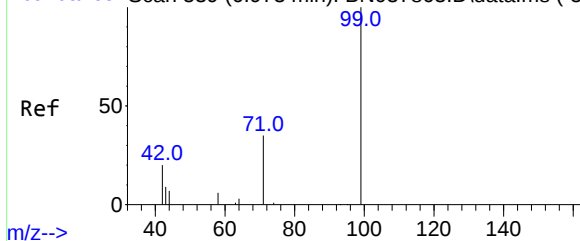


#4
2-Fluorophenol
Concen: 0.359 ng
RT: 5.377 min Scan# 318
Delta R.T. -0.007 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

Tgt Ion:112 Resp: 6434
Ion Ratio Lower Upper
112 100
64 57.3 44.6 66.8
63 30.5 24.9 37.3

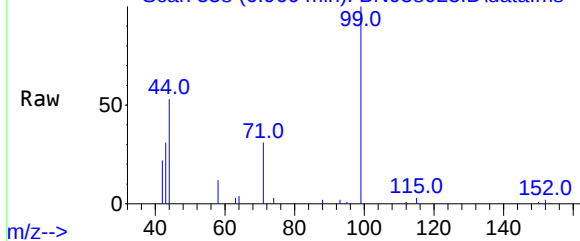


Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



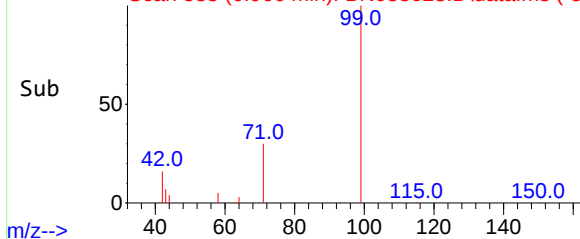
m/z-->

Abundance Scan 538 (6.966 min): BN038023.D\data.ms



m/z-->

Abundance Scan 538 (6.966 min): BN038023.D\data.ms (-51



m/z-->

#5

Phenol-d6

Concen: 0.335 ng

RT: 6.966 min Scan# 51

Delta R.T. -0.007 min

Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

Instrument :

BNA_N

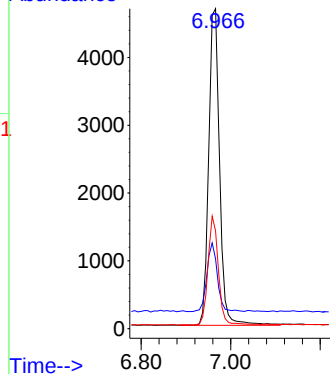
ClientSampleId :

PB169904BL

Tgt Ion: 99 Resp: 7875

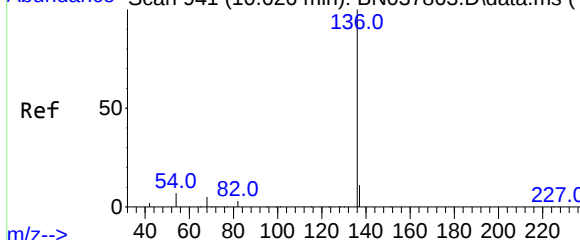
Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.2	25.8
71	32.7	27.3	40.9

Abundance



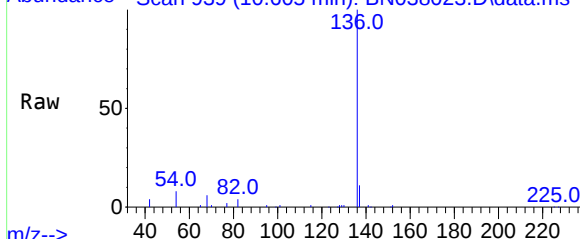
Time-->

Abundance Scan 941 (10.626 min): BN037863.D\data.ms (-9



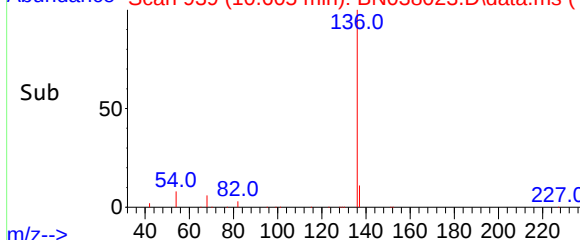
m/z-->

Abundance Scan 939 (10.605 min): BN038023.D\data.ms



m/z-->

Abundance Scan 939 (10.605 min): BN038023.D\data.ms (-9



m/z-->

#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.605 min Scan# 939

Delta R.T. -0.021 min

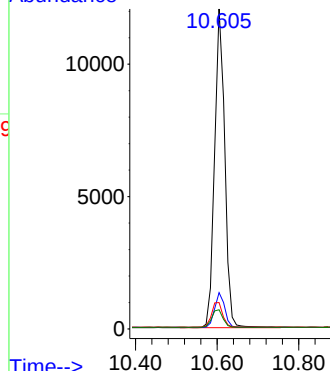
Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

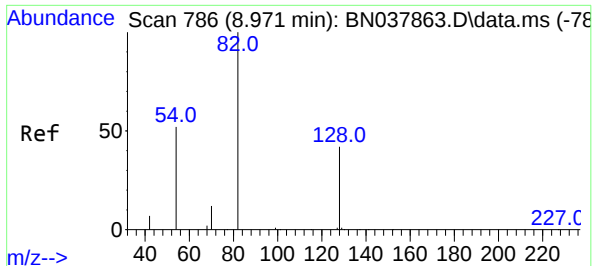
Tgt Ion: 136 Resp: 20745

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	8.2	5.8	8.8
68	6.0	4.3	6.5

Abundance



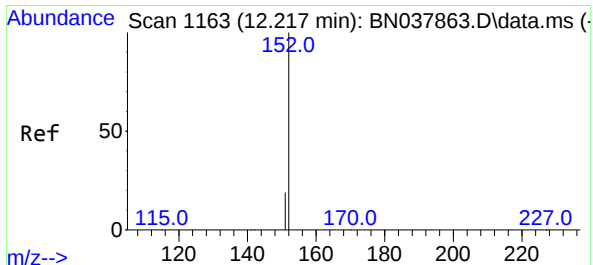
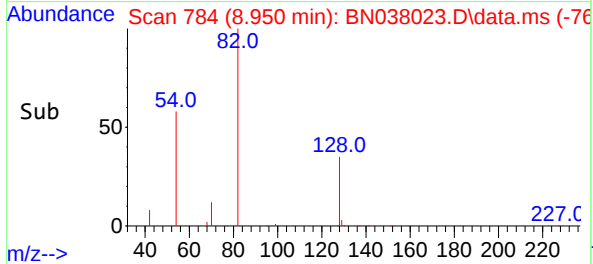
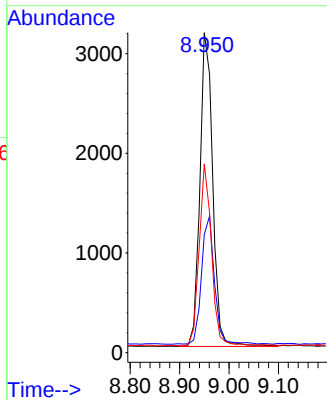
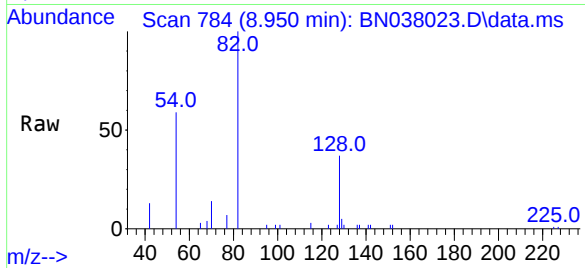
Time-->



#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.950 min Scan# 71
Delta R.T. -0.021 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

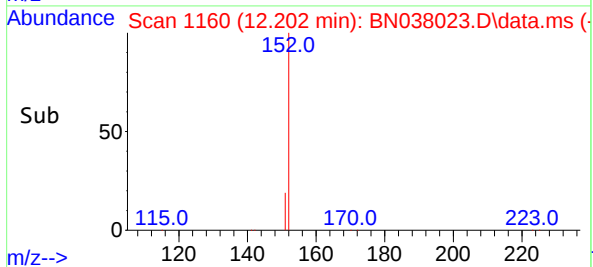
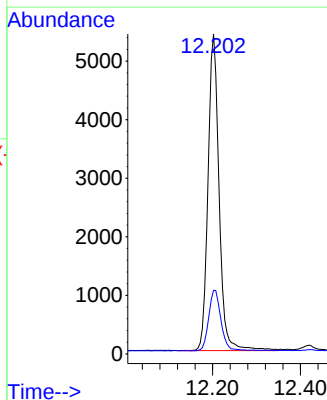
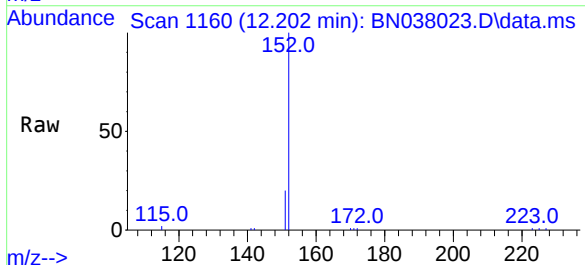
Instrument :
BNA_N
ClientSampleId :
PB169904BL

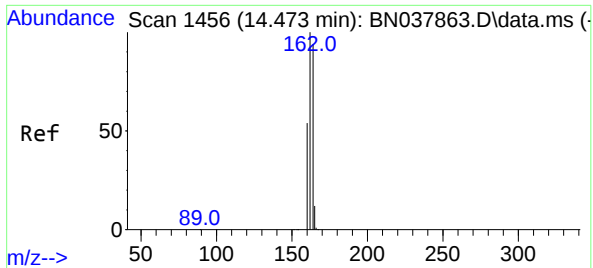
Tgt Ion: 82 Resp: 5676
Ion Ratio Lower Upper
82 100
128 36.9 34.8 52.2
54 59.0 42.2 63.2



#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 12.202 min Scan# 1160
Delta R.T. -0.015 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

Tgt Ion: 152 Resp: 9416
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.2

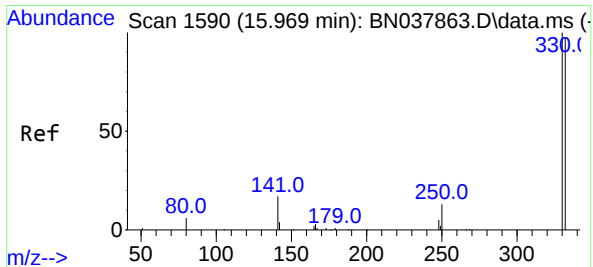
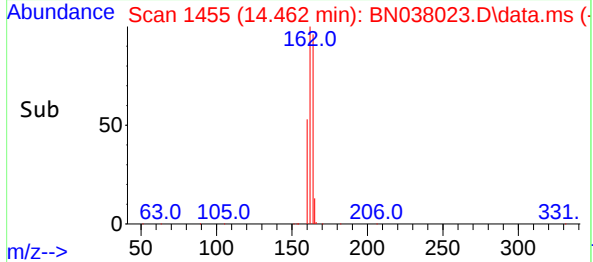
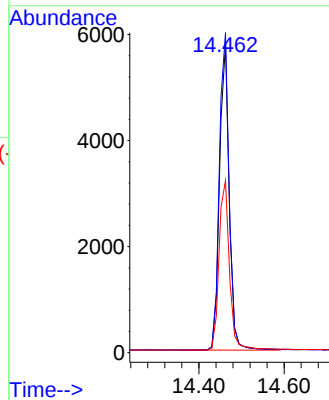
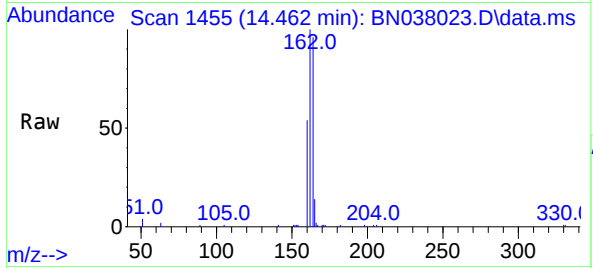




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.462 min Scan# 1455
Delta R.T. -0.011 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

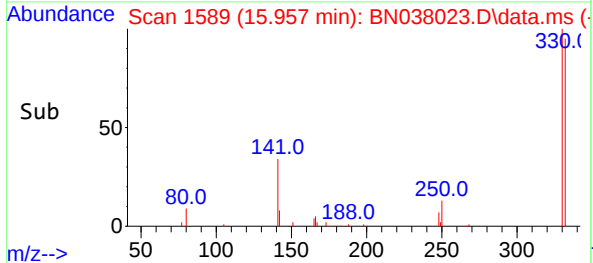
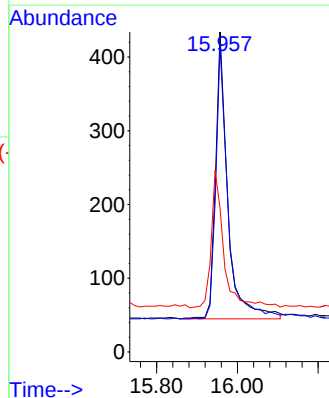
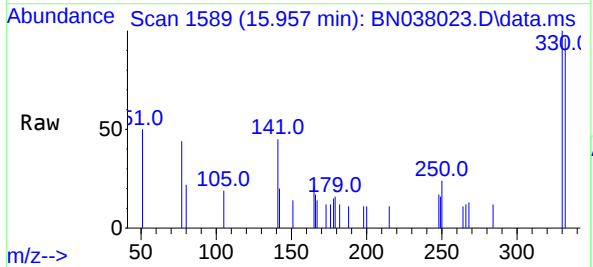
Instrument :
BNA_N
ClientSampleId :
PB169904BL

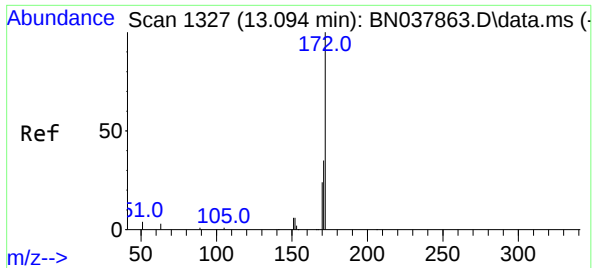
Tgt Ion:164 Resp: 9107
Ion Ratio Lower Upper
164 100
162 103.7 84.8 127.2
160 55.8 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.236 ng
RT: 15.957 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

Tgt Ion:330 Resp: 816
Ion Ratio Lower Upper
330 100
332 95.6 77.2 115.8
141 49.5 37.2 55.8

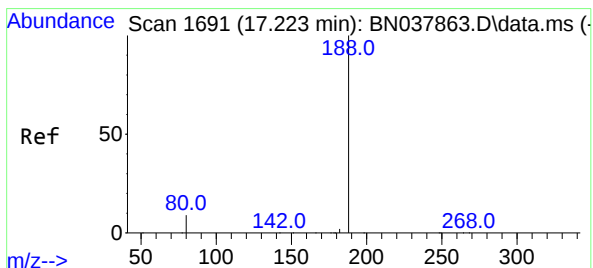
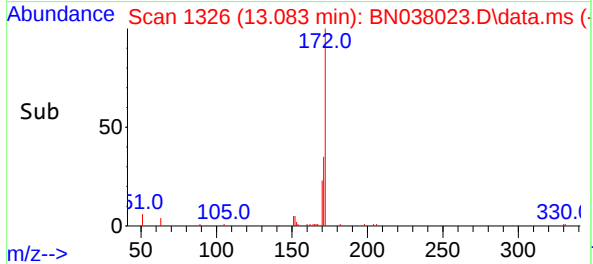
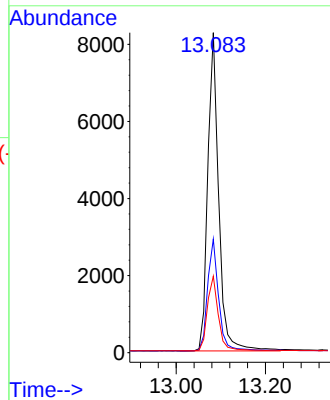
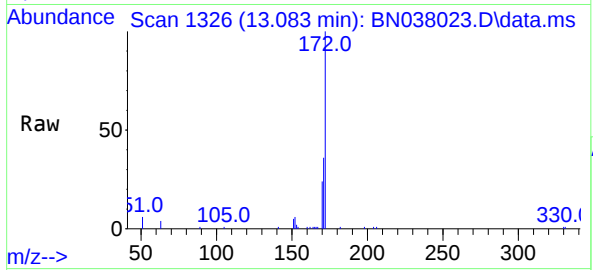




#15
2-Fluorobiphenyl
Concen: 0.375 ng
RT: 13.083 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

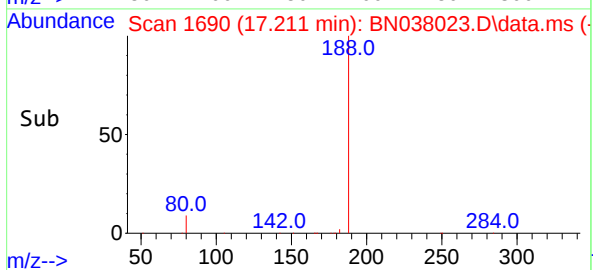
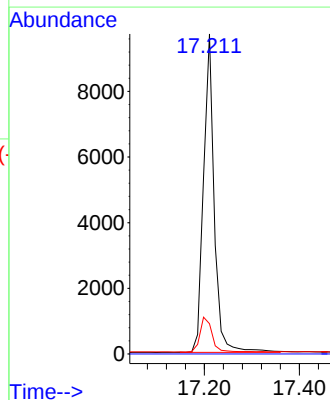
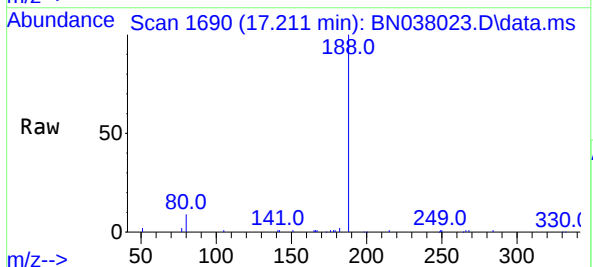
Instrument :
BNA_N
ClientSampleId :
PB169904BL

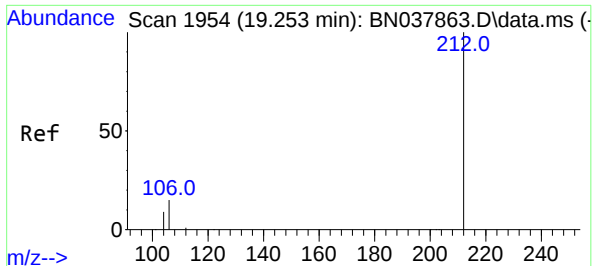
Tgt Ion:172 Resp: 13974
Ion Ratio Lower Upper
172 100
171 35.5 28.6 43.0
170 23.9 19.7 29.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

Tgt Ion:188 Resp: 15264
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.5 7.6 11.4

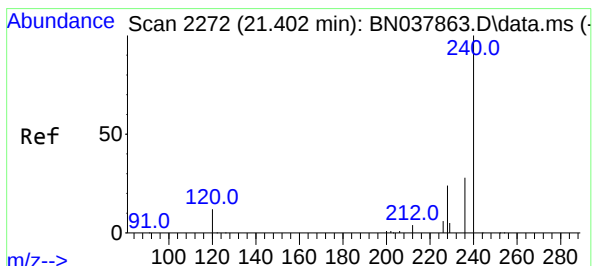
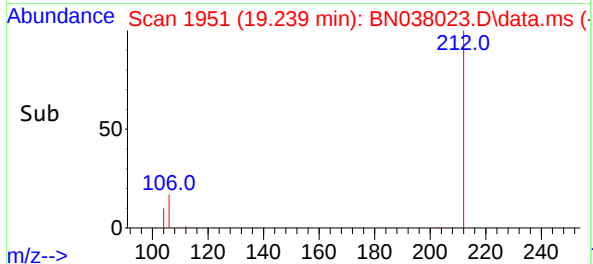
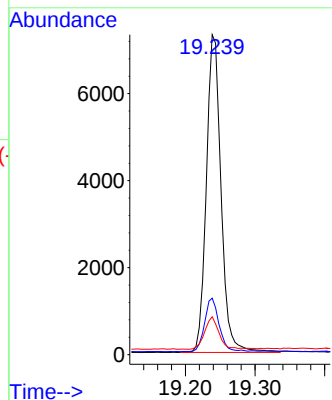
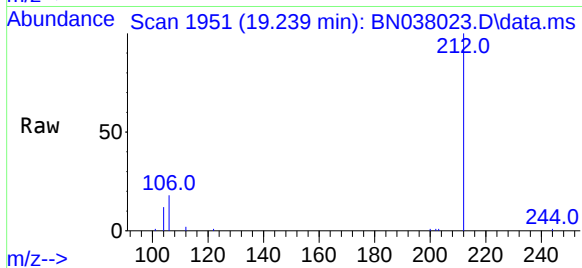




#27
Fluoranthene-d10
Concen: 0.279 ng
RT: 19.239 min Scan# 1951
Delta R.T. -0.014 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

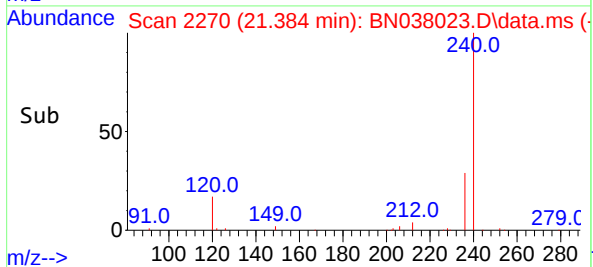
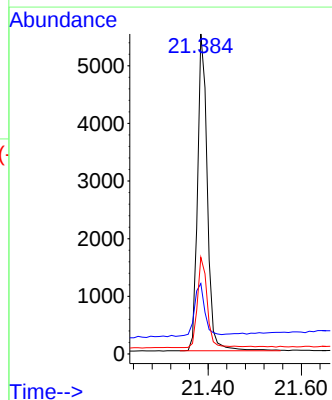
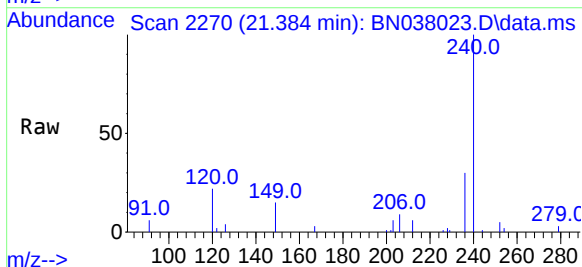
Instrument :
BNA_N
ClientSampleId :
PB169904BL

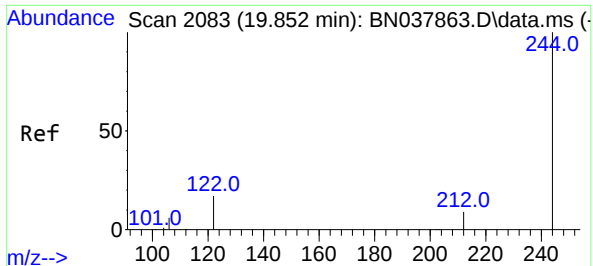
Tgt Ion:212 Resp: 10714
Ion Ratio Lower Upper
212 100
106 16.7 12.6 19.0
104 10.2 7.4 11.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 2270
Delta R.T. -0.018 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

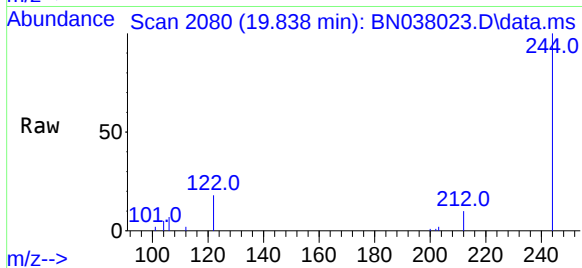
Tgt Ion:240 Resp: 8024
Ion Ratio Lower Upper
240 100
120 22.0 11.4 17.2#
236 30.2 23.0 34.6



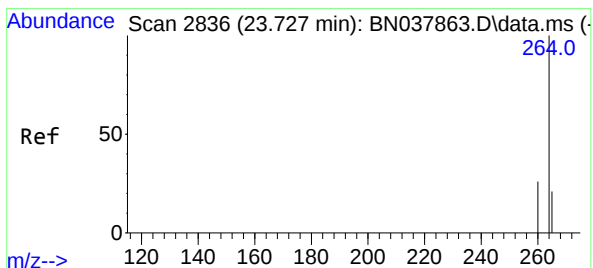
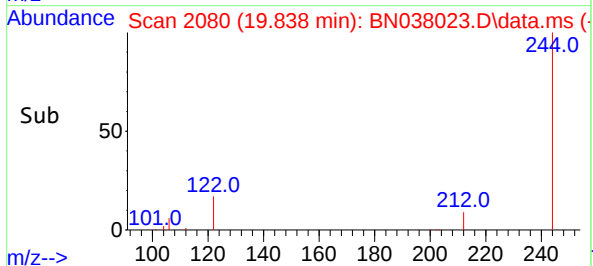
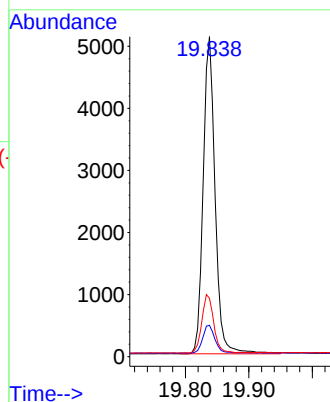


#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

Instrument :
BNA_N
ClientSampleId :
PB169904BL

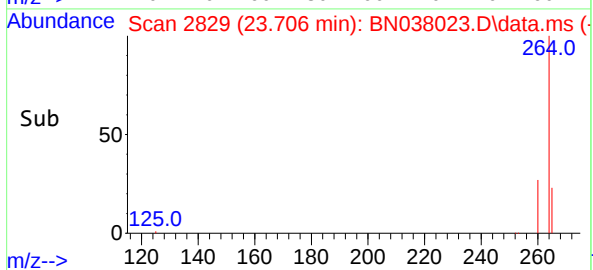
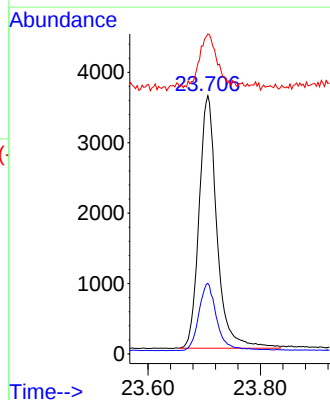
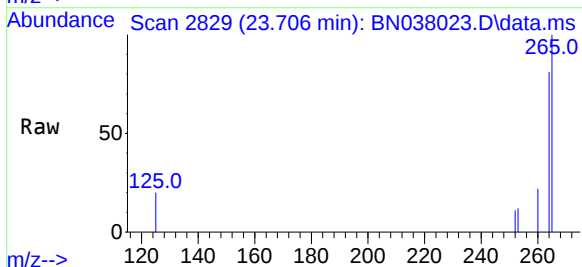


Tgt Ion:244 Resp: 6667
Ion Ratio Lower Upper
244 100
212 9.8 7.6 11.4
122 18.2 13.9 20.9



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.706 min Scan# 2829
Delta R.T. -0.021 min
Lab File: BN038023.D
Acq: 07 Oct 2025 00:08

Tgt Ion:264 Resp: 7902
Ion Ratio Lower Upper
264 100
260 27.3 21.5 32.3
265 123.9 53.8 80.6#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169904BS	SDG No.:	Q3213
Lab Sample ID:	PB169904BS	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
BN038037.D	1	09/26/25 13:15	10/07/25 08:35	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		69%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		93%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9120	7.804				
1146-65-2	Naphthalene-d8	24900	10.605				
15067-26-2	Acenaphthene-d10	11800	14.452				
1517-22-2	Phenanthrene-d10	20400	17.211				
1719-03-5	Chrysene-d12	10200	21.393				
1520-96-3	Perylene-d12	9230	23.712				

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\BN100625\
 Data File : BN038037.D
 Acq On : 07 Oct 2025 08:35
 Operator : RC/JU
 Sample : PB169904BS
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169904BS

Quant Time: Oct 07 10:38:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

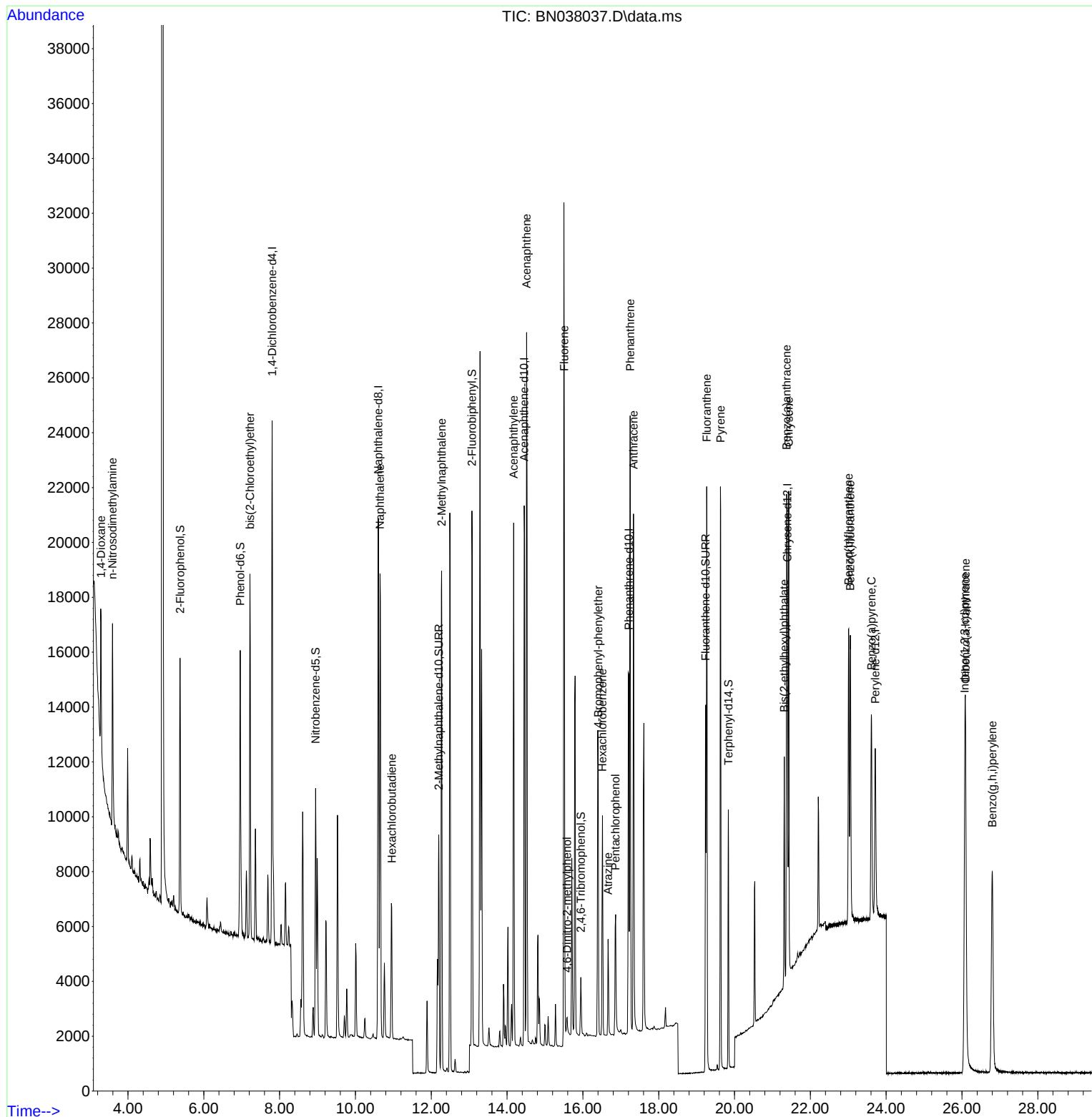
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	9121	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	24908	0.400	ng	-0.02
13) Acenaphthene-d10	14.452	164	11773	0.400	ng	-0.02
19) Phenanthrene-d10	17.211	188	20442	0.400	ng	#-0.01
29) Chrysene-d12	21.393	240	10195	0.400	ng	0.00
35) Perylene-d12	23.712	264	9225	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	7594	0.365	ng	0.00
5) Phenol-d6	6.959	99	9353	0.342	ng	-0.01
8) Nitrobenzene-d5	8.950	82	6889	0.363	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	12058	0.349	ng	-0.02
14) 2,4,6-Tribromophenol	15.945	330	1203	0.269	ng	-0.02
15) 2-Fluorobiphenyl	13.073	172	17972	0.373	ng	-0.02
27) Fluoranthene-d10	19.239	212	14208	0.276	ng	-0.01
31) Terphenyl-d14	19.838	244	9014	0.444	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.290	88	2966	0.320	ng	# 58
3) n-Nitrosodimethylamine	3.593	42	4304	0.349	ng	# 92
6) bis(2-Chloroethyl)ether	7.219	93	9006	0.355	ng	97
9) Naphthalene	10.648	128	23478	0.342	ng	100
10) Hexachlorobutadiene	10.957	225	4151	0.355	ng	# 100
12) 2-Methylnaphthalene	12.273	142	13210	0.295	ng	98
16) Acenaphthylene	14.174	152	20085	0.376	ng	99
17) Acenaphthene	14.516	154	12391	0.325	ng	97
18) Fluorene	15.510	166	14020	0.304	ng	99
20) 4,6-Dinitro-2-methylph...	15.585	198	619	0.306	ng	# 69
21) 4-Bromophenyl-phenylether	16.404	248	4706	0.353	ng	# 87
22) Hexachlorobenzene	16.516	284	5976	0.370	ng	99
23) Atrazine	16.665	200	2768	0.273	ng	# 90
24) Pentachlorophenol	16.863	266	2664	0.481	ng	96
25) Phenanthrene	17.248	178	23160	0.344	ng	100
26) Anthracene	17.335	178	20037	0.343	ng	100
28) Fluoranthene	19.267	202	19398	0.262	ng	99
30) Pyrene	19.629	202	18822	0.468	ng	100
32) Benzo(a)anthracene	21.375	228	13066	0.367	ng	100
33) Chrysene	21.429	228	14555	0.378	ng	99
34) Bis(2-ethylhexyl)phtha...	21.313	149	4398	0.312	ng	100
36) Indeno(1,2,3-cd)pyrene	26.075	276	18823	0.447	ng	98
37) Benzo(b)fluoranthene	23.011	252	14479	0.364	ng	# 91
38) Benzo(k)fluoranthene	23.054	252	13922	0.348	ng	# 91
39) Benzo(a)pyrene	23.610	252	11961	0.380	ng	# 89
40) Dibenzo(a,h)anthracene	26.095	278	14671	0.446	ng	96
41) Benzo(g,h,i)perylene	26.800	276	16336	0.472	ng	98

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

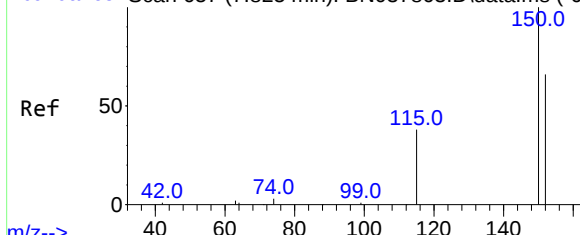
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038037.D
Acq On : 07 Oct 2025 08:35
Operator : RC/JU
Sample : PB169904BS
Misc :
ALS Vial : 37 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169904BS

Quant Time: Oct 07 10:38:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

ClientSampleId :

PB169904BS

Tgt Ion:152 Resp: 9121

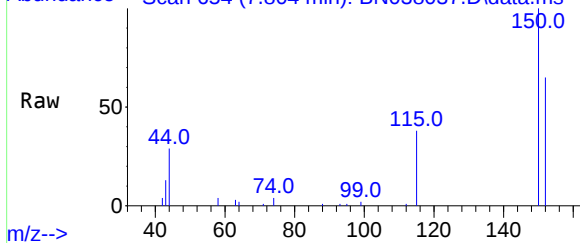
Ion Ratio Lower Upper

152 100

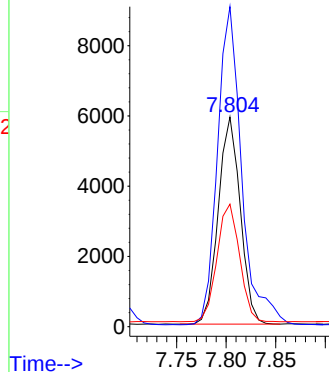
150 152.7 121.0 181.4

115 58.5 47.4 71.0

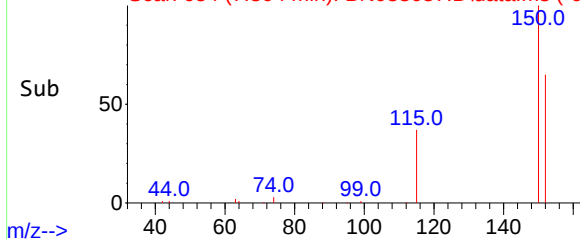
Abundance Scan 654 (7.804 min): BN038037.D\data.ms



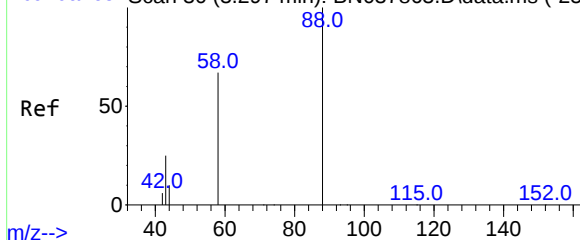
Abundance



Abundance Scan 654 (7.804 min): BN038037.D\data.ms (-62



Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



#2

1,4-Dioxane

Concen: 0.320 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Tgt Ion: 88 Resp: 2966

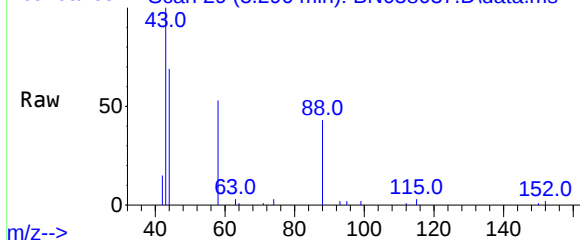
Ion Ratio Lower Upper

88 100

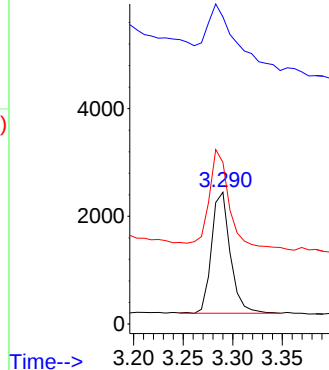
43 80.0 26.6 39.8#

58 93.7 58.9 88.3#

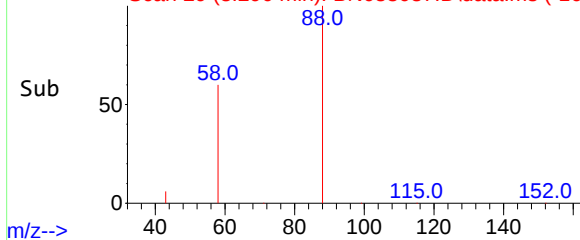
Abundance Scan 29 (3.290 min): BN038037.D\data.ms



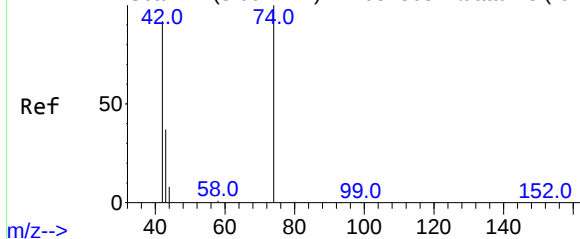
Abundance



Abundance Scan 29 (3.290 min): BN038037.D\data.ms (-16)



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.349 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

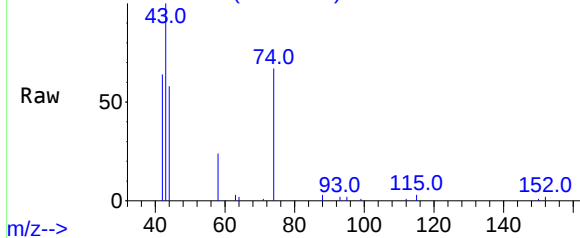
ClientSampleId :

PB169904BS

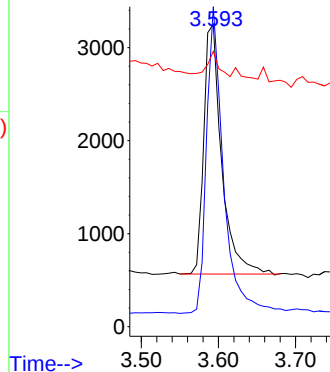
Tgt Ion: 42 Resp: 4304

Ion	Ratio	Lower	Upper
42	100		
74	117.2	93.4	140.0
44	6.2	22.2	33.4

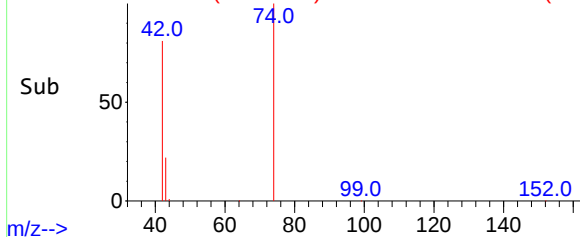
Abundance Scan 71 (3.593 min): BN038037.D\data.ms



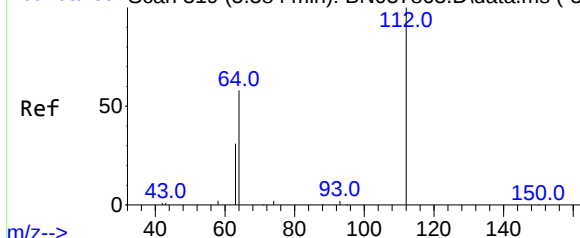
Abundance



Abundance Scan 71 (3.593 min): BN038037.D\data.ms (-51)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.365 ng

RT: 5.377 min Scan# 318

Delta R.T. -0.007 min

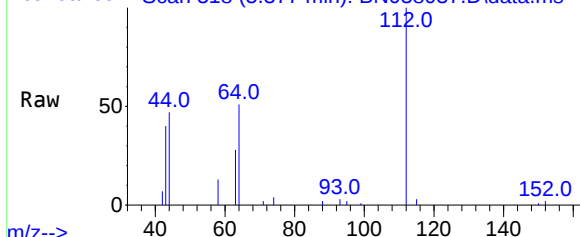
Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

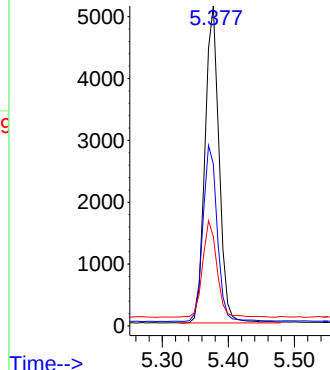
Tgt Ion: 112 Resp: 7594

Ion	Ratio	Lower	Upper
112	100		
64	56.2	44.6	66.8
63	30.6	24.9	37.3

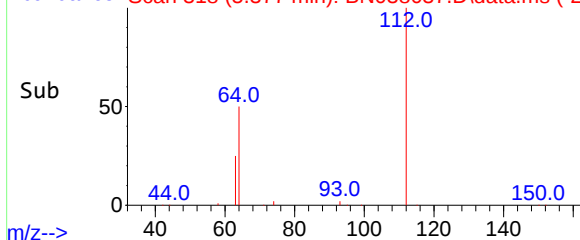
Abundance Scan 318 (5.377 min): BN038037.D\data.ms



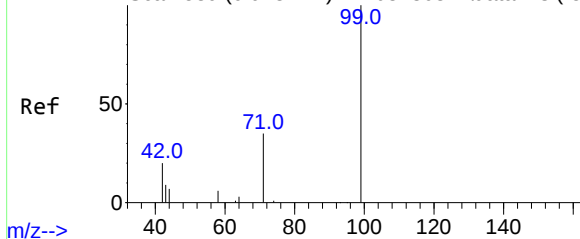
Abundance



Abundance Scan 318 (5.377 min): BN038037.D\data.ms (-29)



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



#5

Phenol-d6

Concen: 0.342 ng

RT: 6.959 min Scan# 51

Delta R.T. -0.014 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

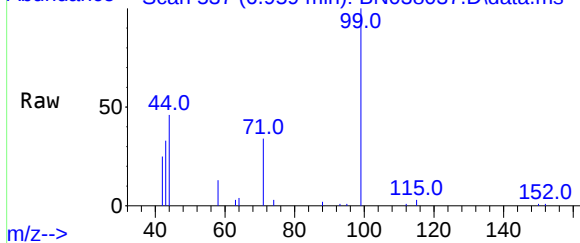
ClientSampleId :

PB169904BS

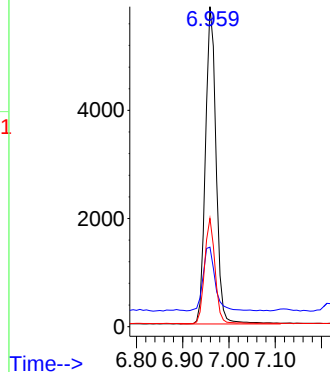
Tgt Ion: 99 Resp: 9353

Ion	Ratio	Lower	Upper
99	100		
42	22.8	17.2	25.8
71	32.5	27.3	40.9

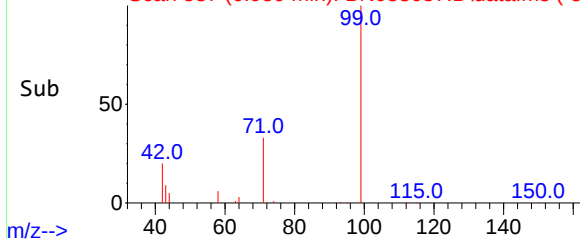
Abundance Scan 537 (6.959 min): BN038037.D\data.ms



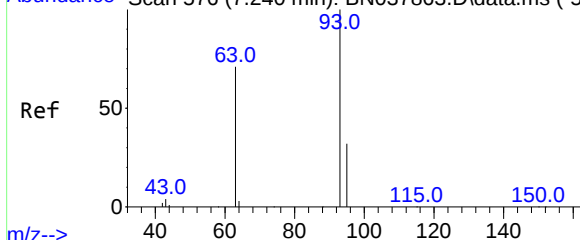
Abundance



Abundance Scan 537 (6.959 min): BN038037.D\data.ms (-51



Abundance Scan 576 (7.240 min): BN037863.D\data.ms (-57



#6

bis(2-Chloroethyl)ether

Concen: 0.355 ng

RT: 7.219 min Scan# 573

Delta R.T. -0.022 min

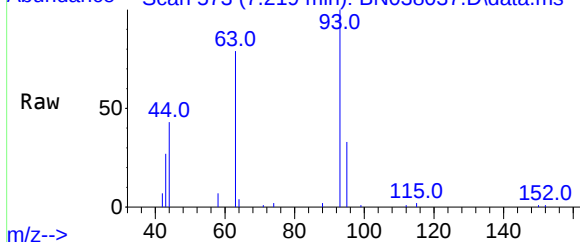
Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

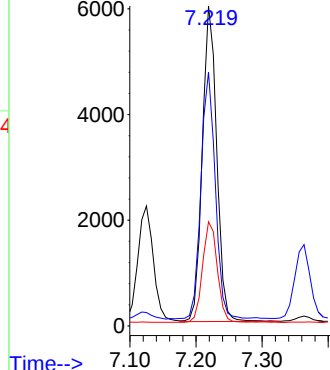
Tgt Ion: 93 Resp: 9006

Ion	Ratio	Lower	Upper
93	100		
63	77.9	60.1	90.1
95	32.6	25.4	38.2

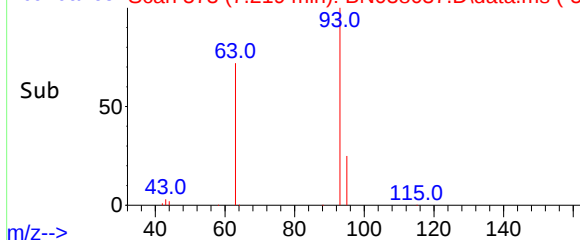
Abundance Scan 573 (7.219 min): BN038037.D\data.ms

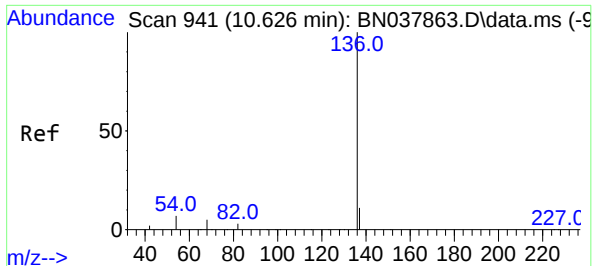


Abundance



Abundance Scan 573 (7.219 min): BN038037.D\data.ms (-54

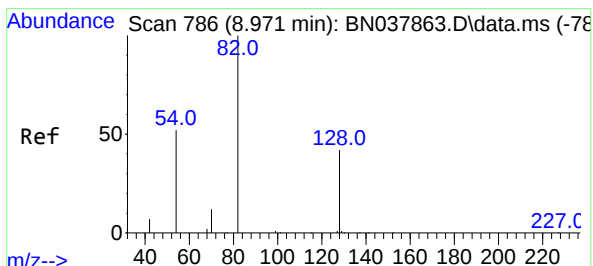
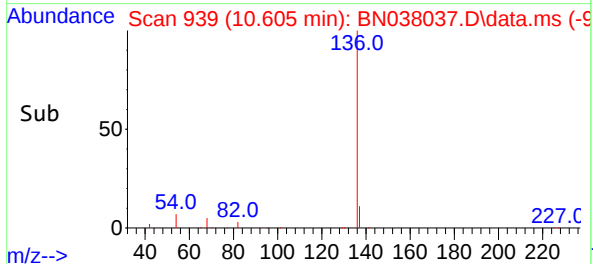
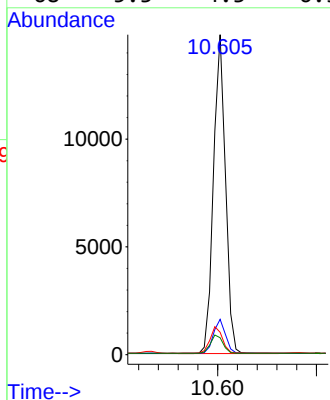
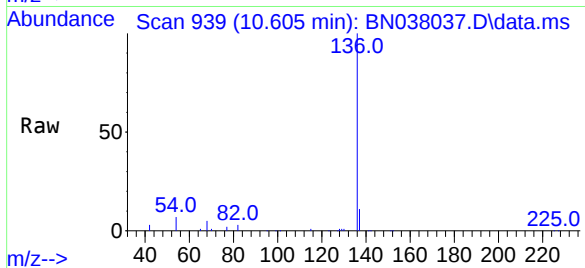




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

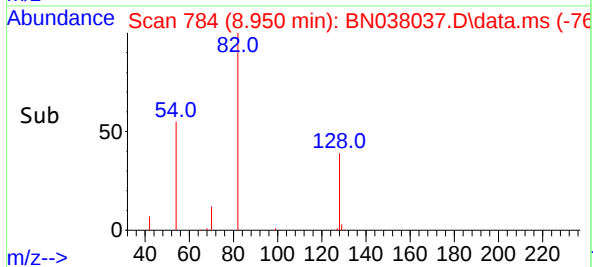
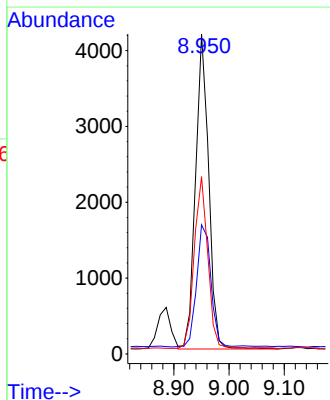
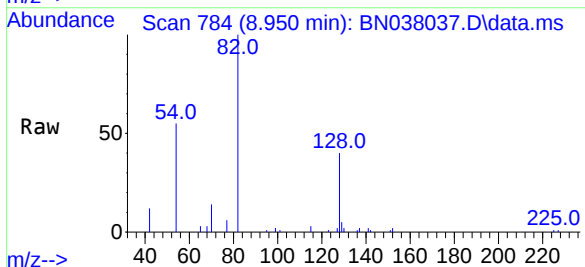
Instrument :
BNA_N
ClientSampleId :
PB169904BS

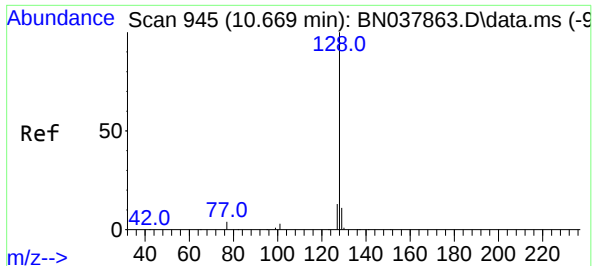
Tgt Ion:	136	Resp:	24908
Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	7.0	5.8	8.8
68	5.3	4.3	6.5



#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:	82	Resp:	6889
Ion	Ratio	Lower	Upper
82	100		
128	40.3	34.8	52.2
54	55.4	42.2	63.2

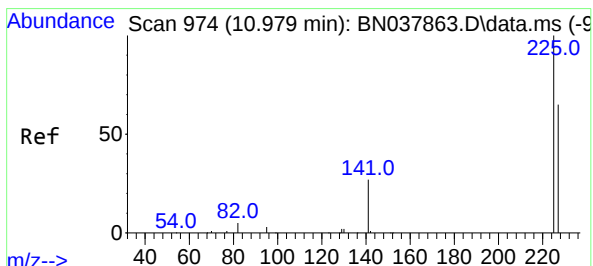
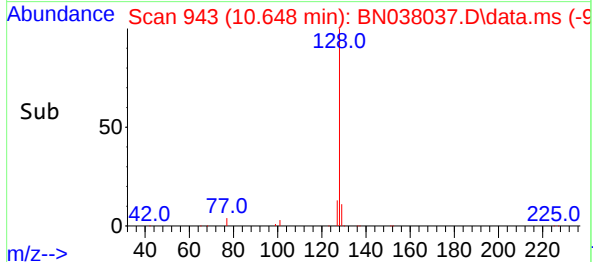
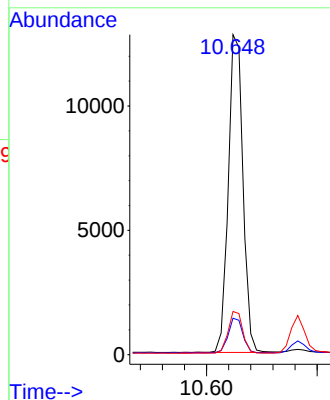
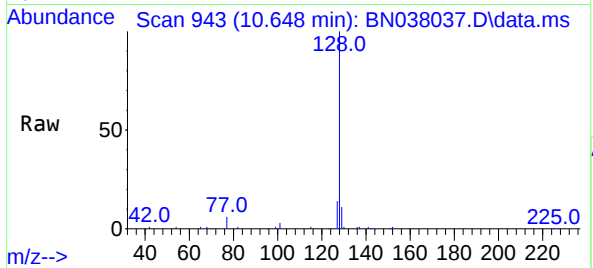




#9
Naphthalene
Concen: 0.342 ng
RT: 10.648 min Scan# 94
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

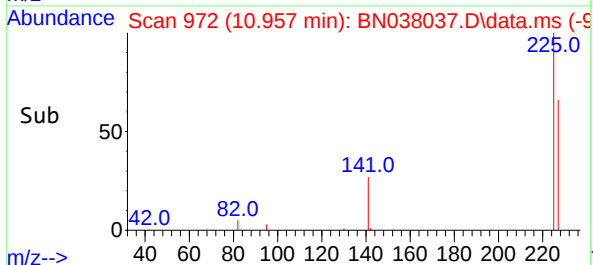
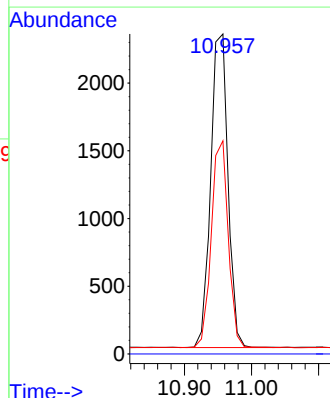
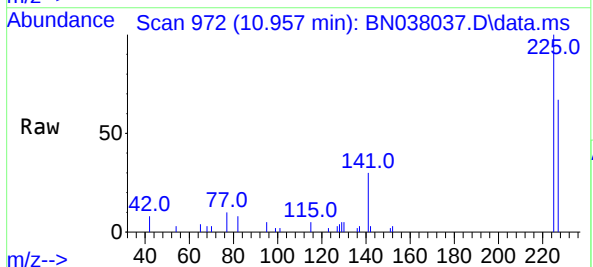
Instrument :
BNA_N
ClientSampleId :
PB169904BS

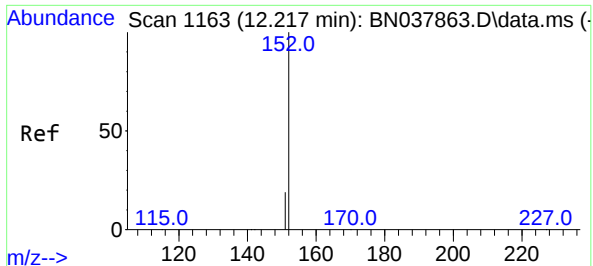
Tgt Ion:128 Resp: 23478
Ion Ratio Lower Upper
128 100
129 11.4 9.2 13.8
127 13.5 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.355 ng
RT: 10.957 min Scan# 972
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:225 Resp: 4151
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.4 51.4 77.2

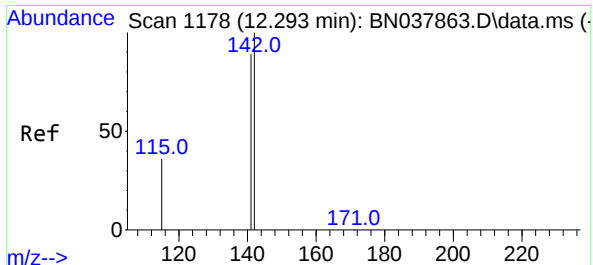
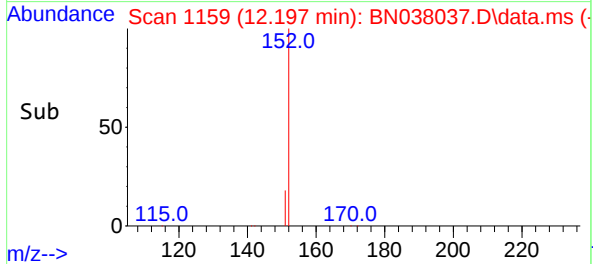
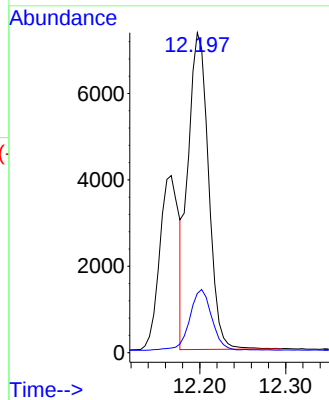
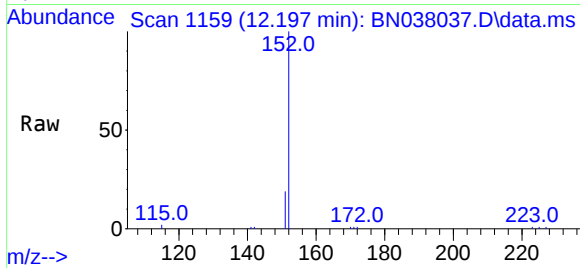




#11
2-Methylnaphthalene-d10
Concen: 0.349 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.020 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

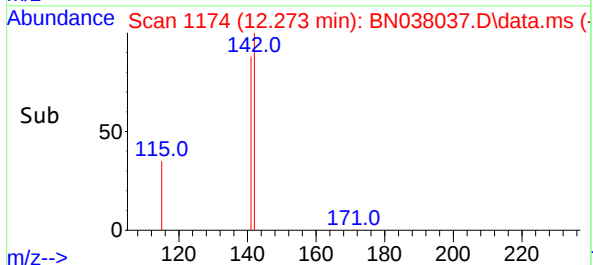
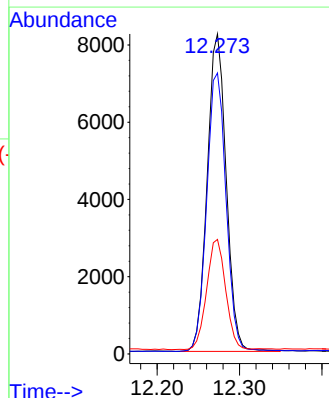
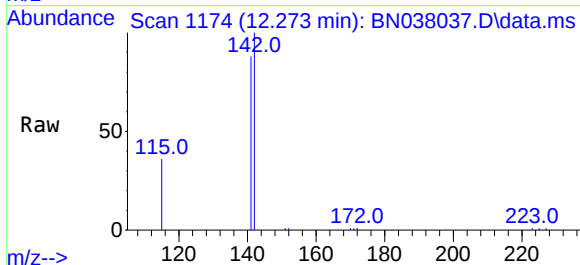
Instrument :
BNA_N
ClientSampleId :
PB169904BS

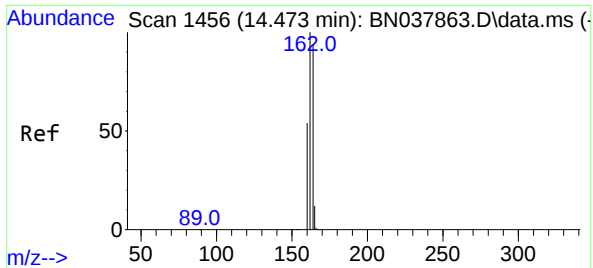
Tgt Ion:152 Resp: 12058
Ion Ratio Lower Upper
152 100
151 20.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.295 ng
RT: 12.273 min Scan# 1174
Delta R.T. -0.020 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:142 Resp: 13210
Ion Ratio Lower Upper
142 100
141 87.8 71.2 106.8
115 35.8 29.7 44.5

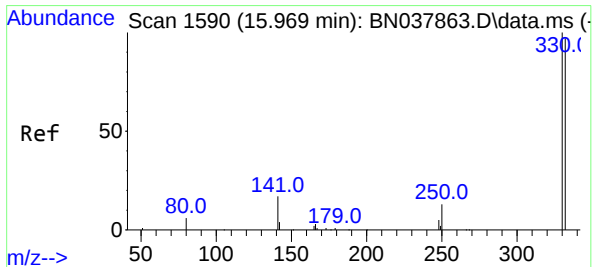
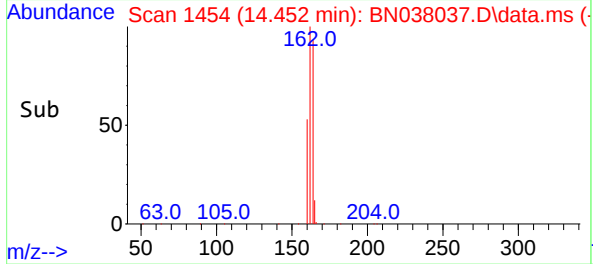
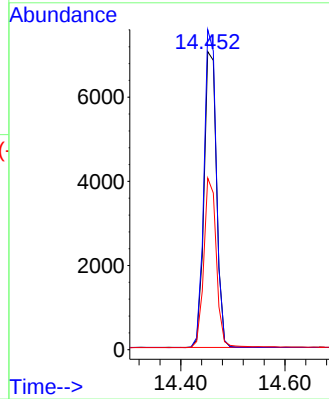
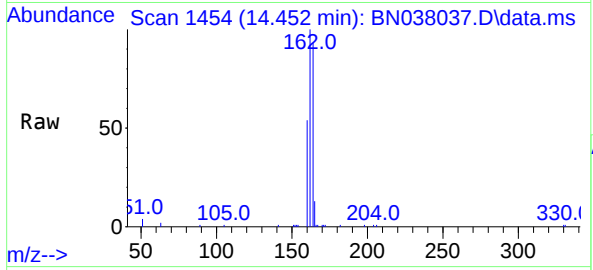




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 1456
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

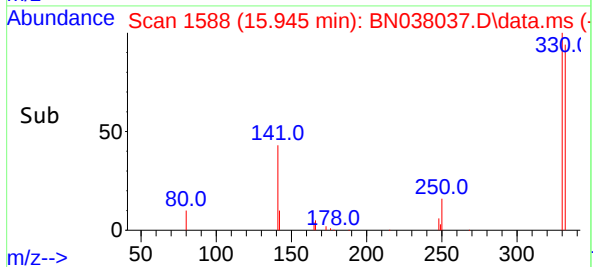
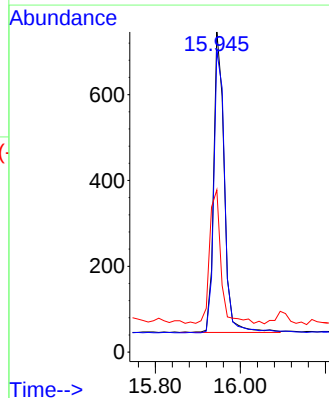
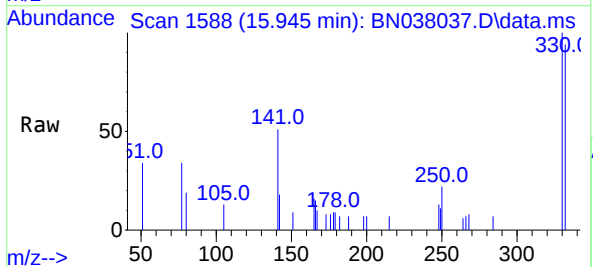
Instrument :
BNA_N
ClientSampleId :
PB169904BS

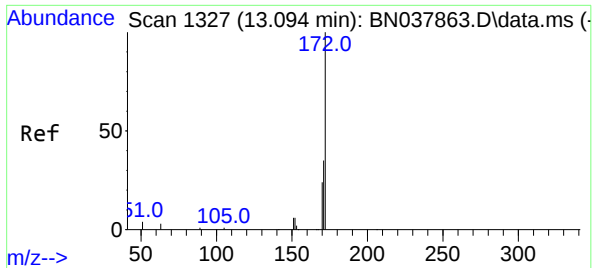
Tgt Ion:164 Resp: 11773
Ion Ratio Lower Upper
164 100
162 107.3 84.8 127.2
160 57.6 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.269 ng
RT: 15.945 min Scan# 1588
Delta R.T. -0.024 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:330 Resp: 1203
Ion Ratio Lower Upper
330 100
332 97.6 77.2 115.8
141 48.6 37.2 55.8

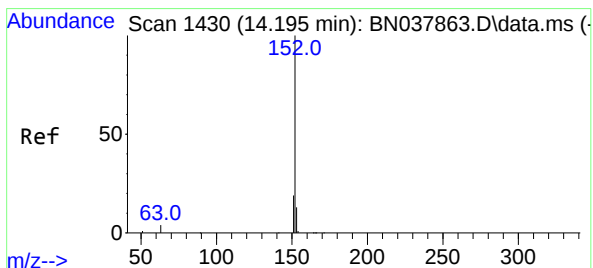
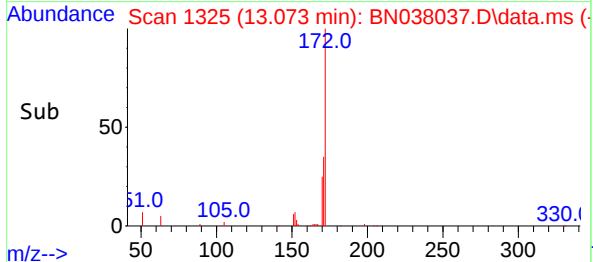
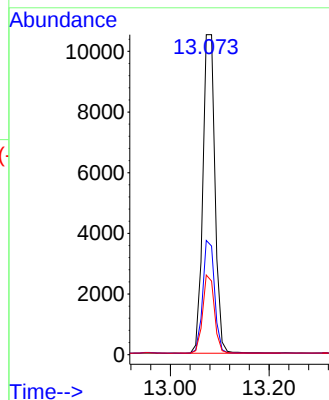
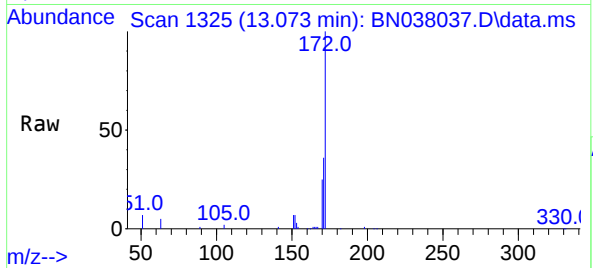




#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 13.073 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

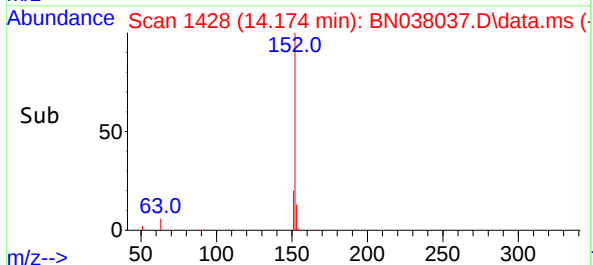
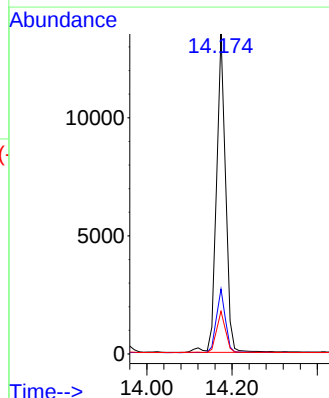
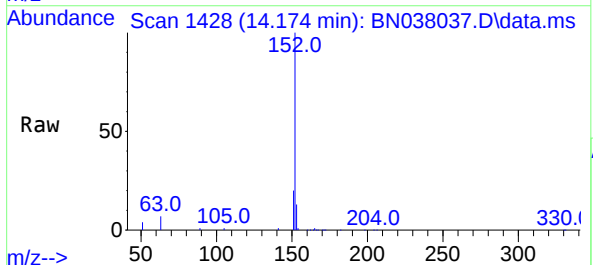
Instrument :
BNA_N
ClientSampleId :
PB169904BS

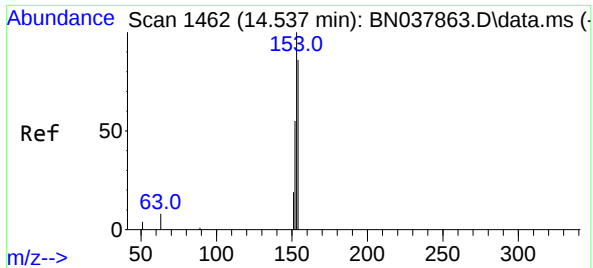
Tgt Ion:172 Resp: 17972
Ion Ratio Lower Upper
172 100
171 35.7 28.6 43.0
170 24.9 19.7 29.5



#16
Acenaphthylene
Concen: 0.376 ng
RT: 14.174 min Scan# 1428
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:152 Resp: 20085
Ion Ratio Lower Upper
152 100
151 19.7 15.8 23.8
153 12.6 10.5 15.7

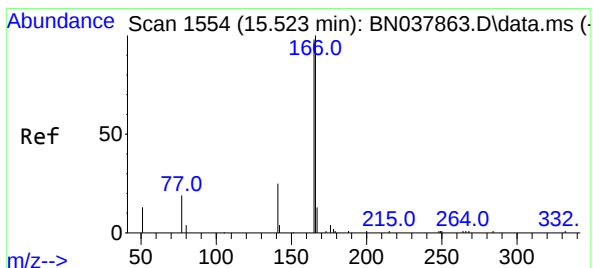
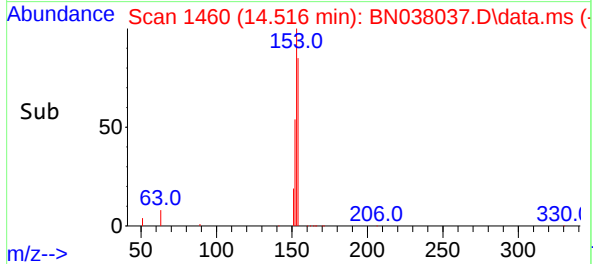
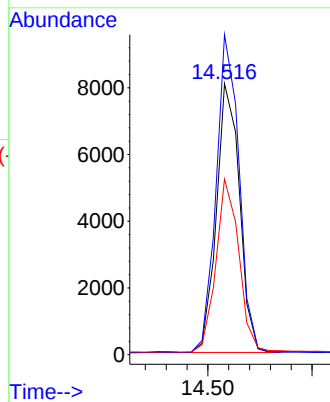
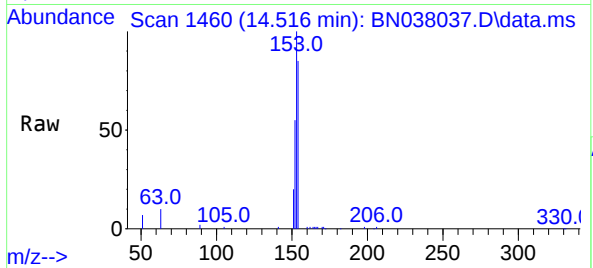




#17
Acenaphthene
Concen: 0.325 ng
RT: 14.516 min Scan# 1460
Delta R.T. -0.021 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

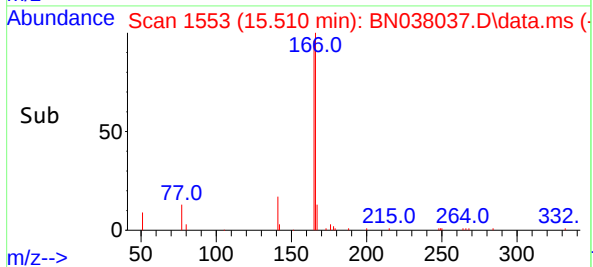
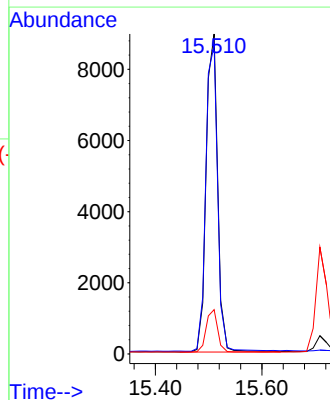
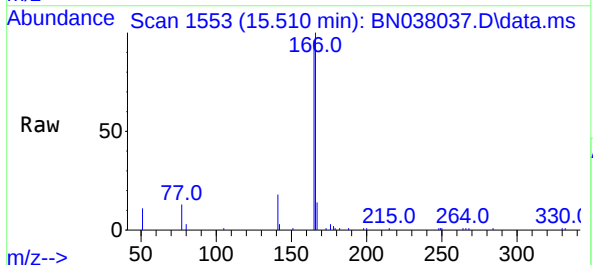
Instrument :
BNA_N
ClientSampleId :
PB169904BS

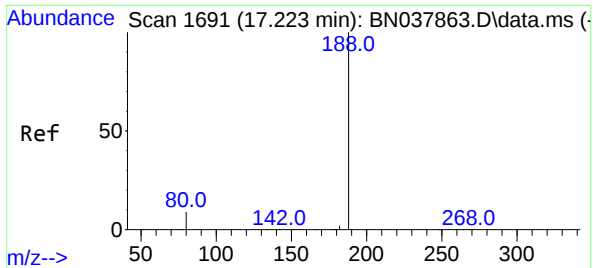
Tgt Ion:154 Resp: 12391
Ion Ratio Lower Upper
154 100
153 117.5 90.5 135.7
152 64.6 51.8 77.8



#18
Fluorene
Concen: 0.304 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.012 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:166 Resp: 14020
Ion Ratio Lower Upper
166 100
165 99.6 79.0 118.4
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

ClientSampleId :

PB169904BS

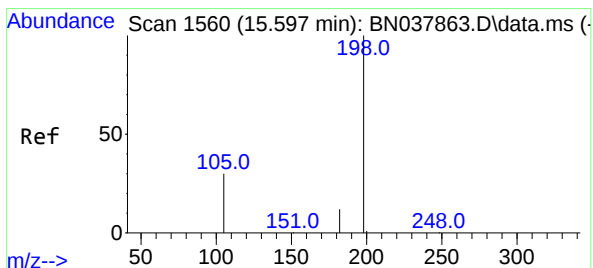
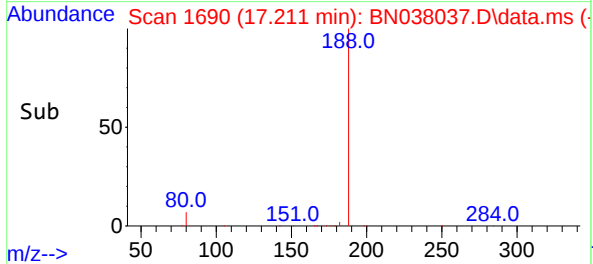
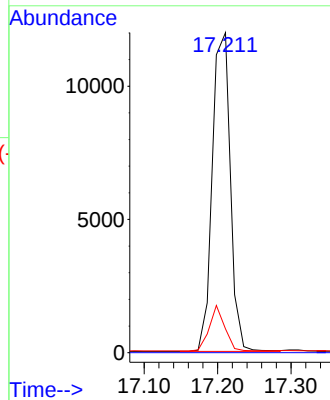
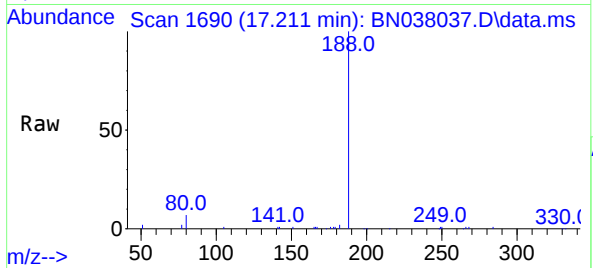
Tgt Ion:188 Resp: 20442

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.306 ng

RT: 15.585 min Scan# 1559

Delta R.T. -0.012 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

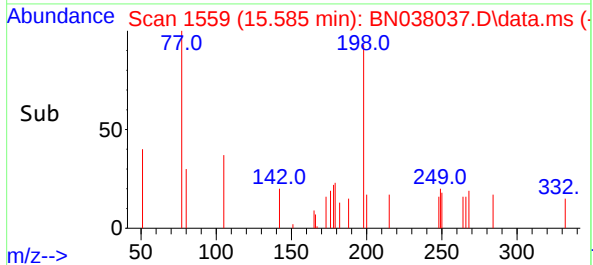
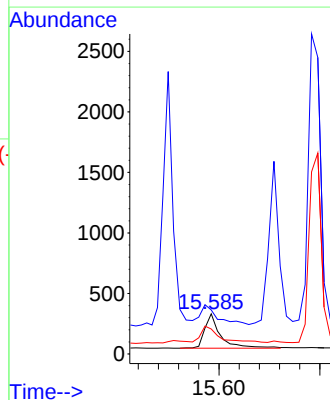
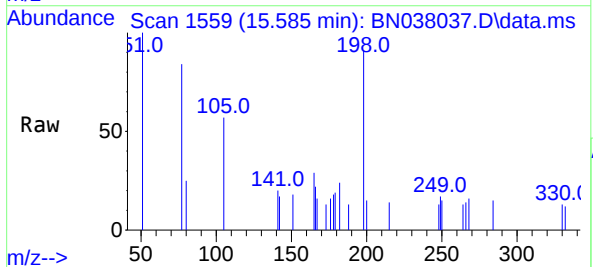
Tgt Ion:198 Resp: 619

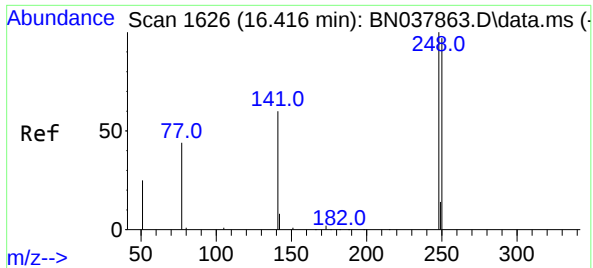
Ion Ratio Lower Upper

198 100

51 109.6 59.1 88.7#

105 62.0 41.3 61.9#

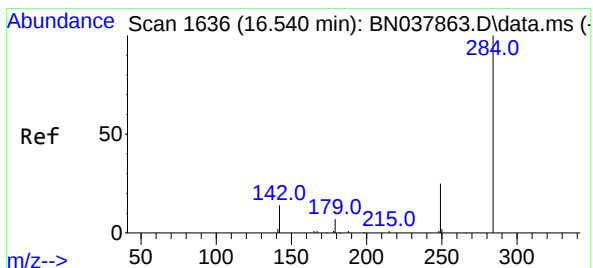
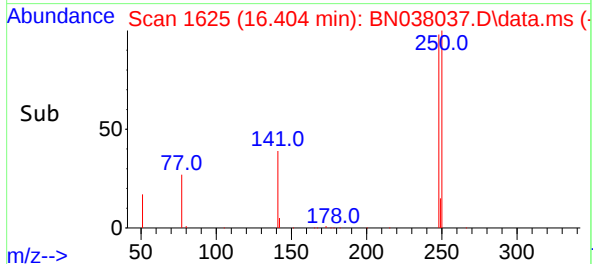
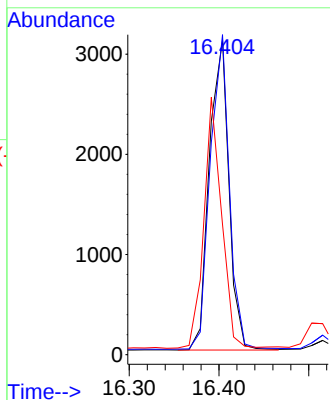
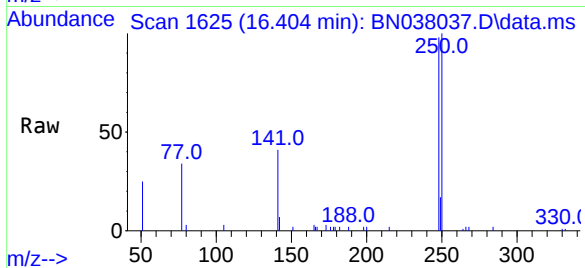




#21
4-Bromophenyl-phenylether
Concen: 0.353 ng
RT: 16.404 min Scan# 1633
Delta R.T. -0.012 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

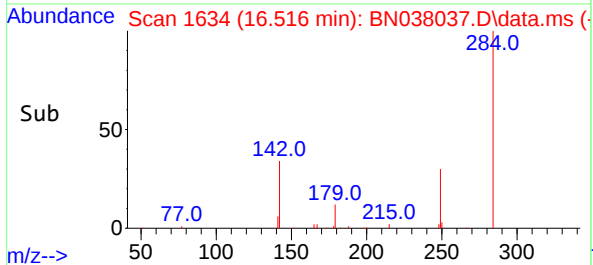
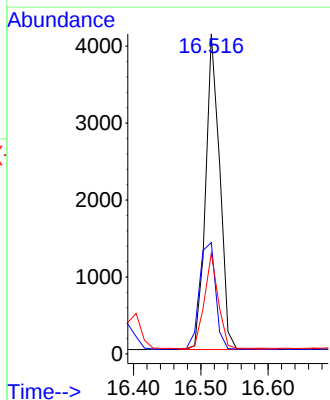
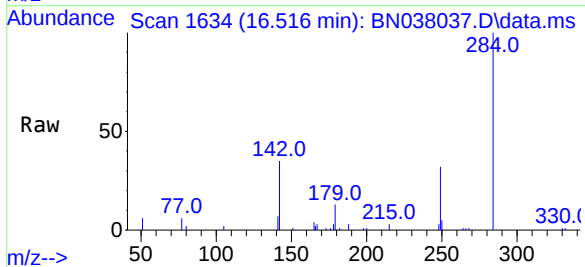
Instrument :
BNA_N
ClientSampleId :
PB169904BS

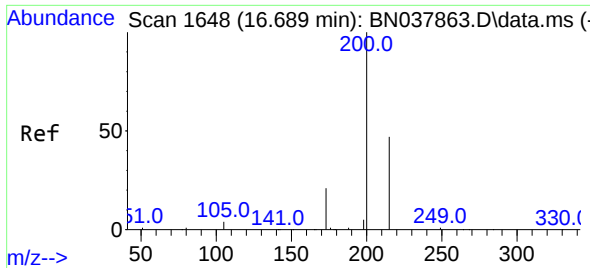
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.8	77.6	116.4
141	41.4	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.370 ng
RT: 16.516 min Scan# 1634
Delta R.T. -0.025 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion	Ratio	Lower	Upper
284	100		
142	39.2	30.9	46.3
249	29.6	23.9	35.9

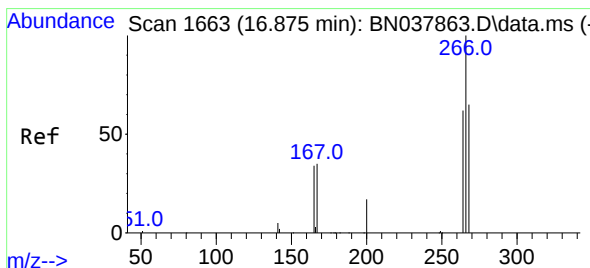
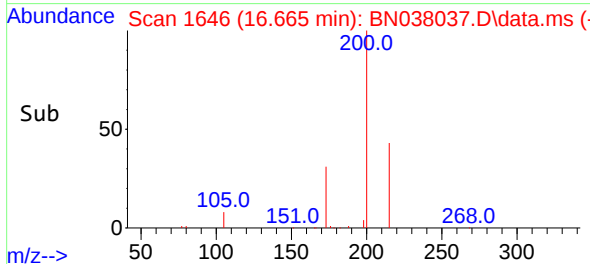
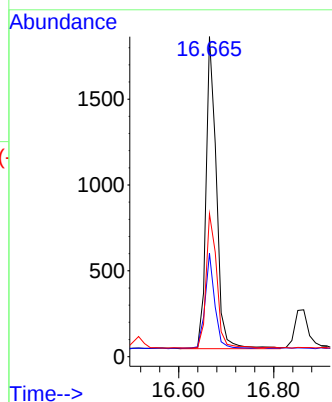
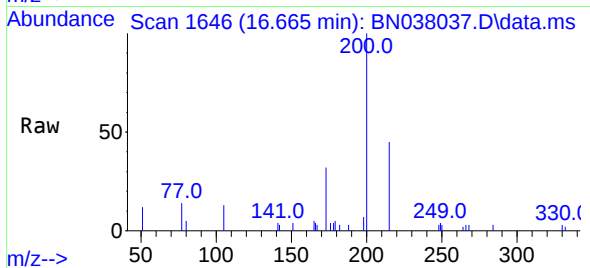




#23
Atrazine
Concen: 0.273 ng
RT: 16.665 min Scan# 1646
Delta R.T. -0.025 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

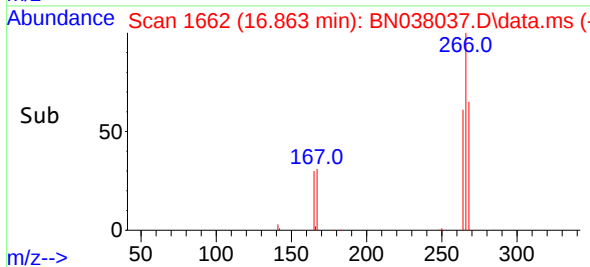
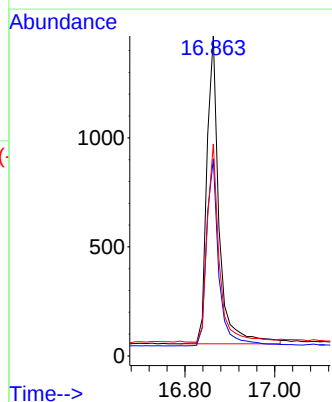
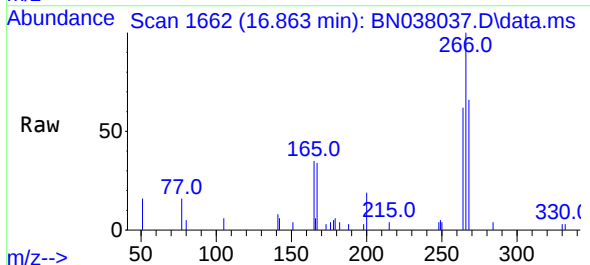
Instrument :
BNA_N
ClientSampleId :
PB169904BS

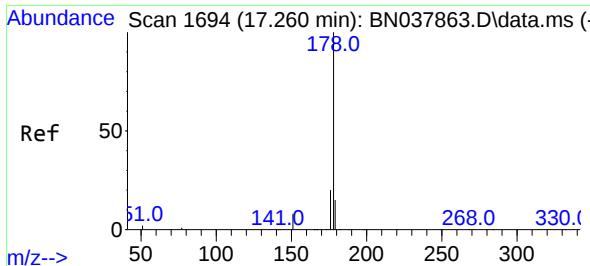
Tgt Ion:200 Resp: 2768
Ion Ratio Lower Upper
200 100
173 32.3 18.3 27.5#
215 44.6 38.6 58.0



#24
Pentachlorophenol
Concen: 0.481 ng
RT: 16.863 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:266 Resp: 2664
Ion Ratio Lower Upper
266 100
264 61.6 50.9 76.3
268 63.1 54.3 81.5

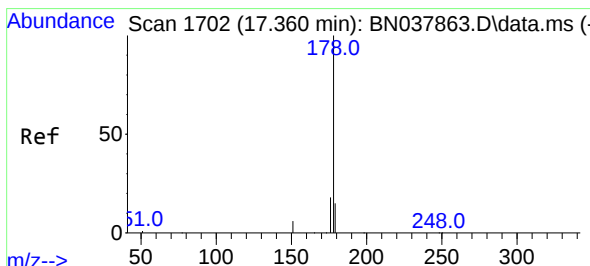
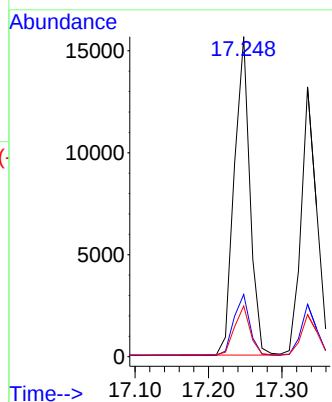
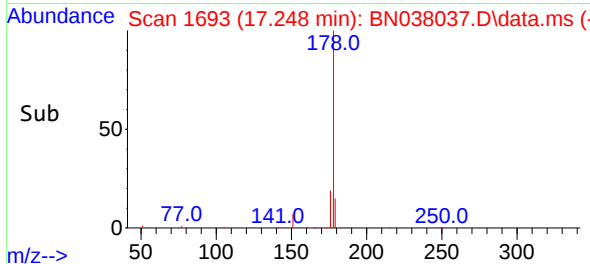
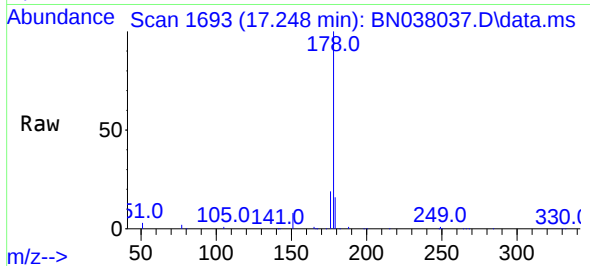




#25
Phenanthrene
Concen: 0.344 ng
RT: 17.248 min Scan# 1700
Delta R.T. -0.012 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

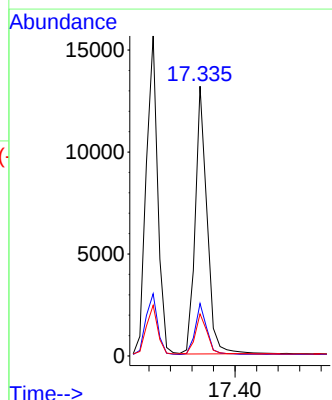
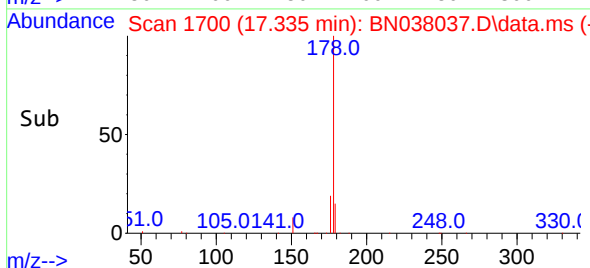
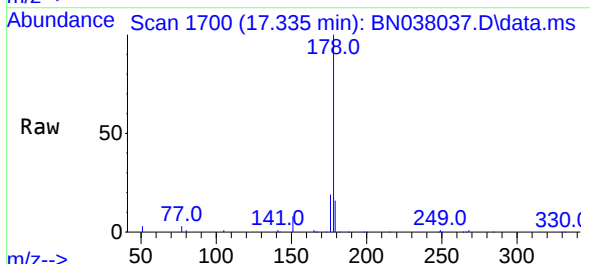
Instrument :
BNA_N
ClientSampleId :
PB169904BS

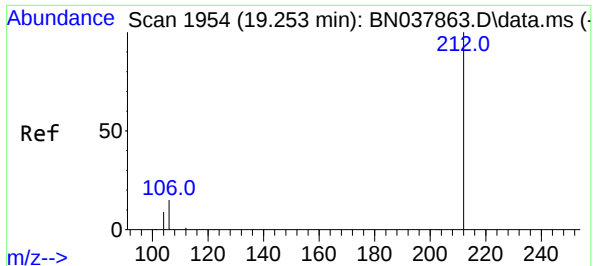
Tgt Ion:178 Resp: 23160
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.343 ng
RT: 17.335 min Scan# 1700
Delta R.T. -0.025 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:178 Resp: 20037
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.4
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.276 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

ClientSampleId :

PB169904BS

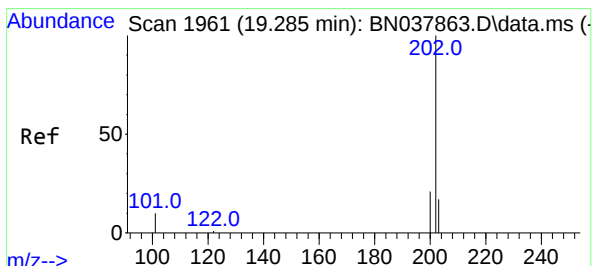
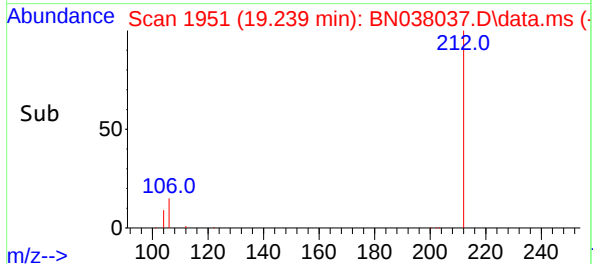
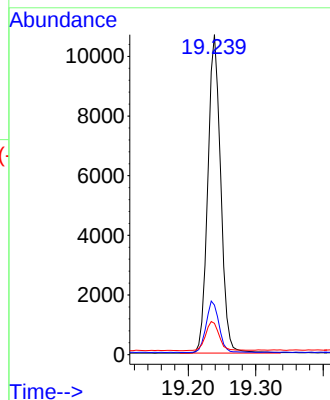
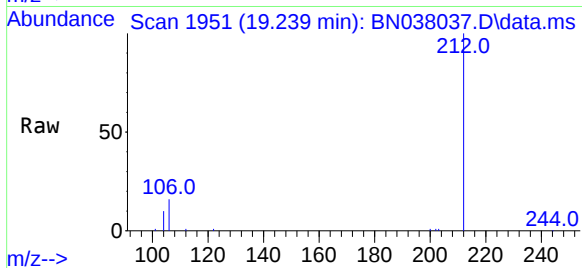
Tgt Ion:212 Resp: 14208

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.7 7.4 11.0



#28

Fluoranthene

Concen: 0.262 ng

RT: 19.267 min Scan# 1957

Delta R.T. -0.019 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

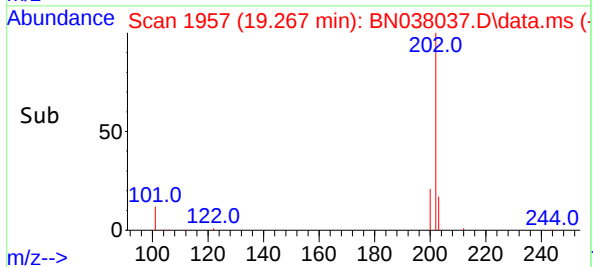
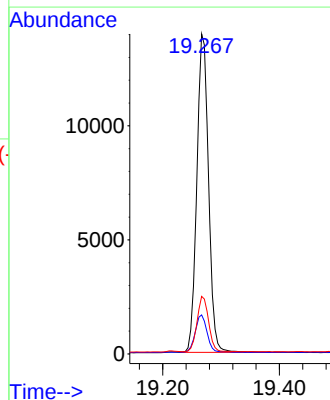
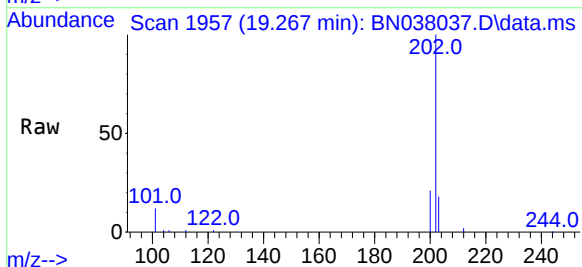
Tgt Ion:202 Resp: 19398

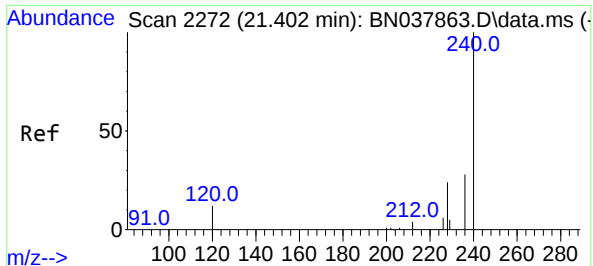
Ion Ratio Lower Upper

202 100

101 12.4 9.3 13.9

203 17.1 13.6 20.4

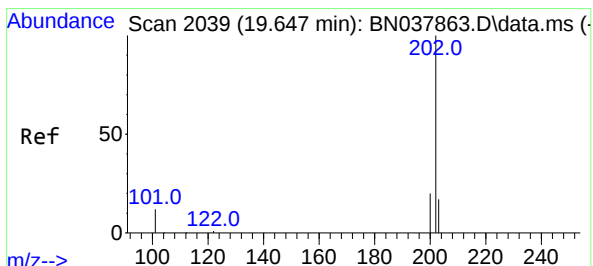
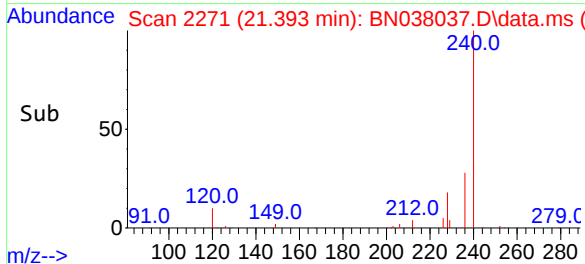
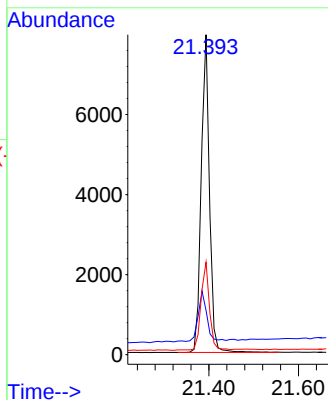
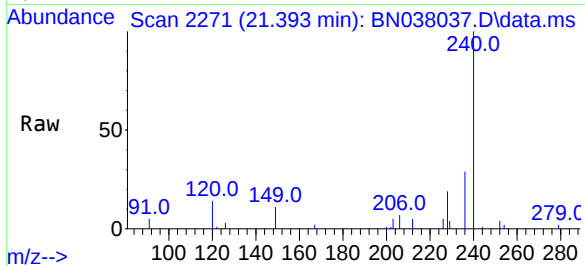




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

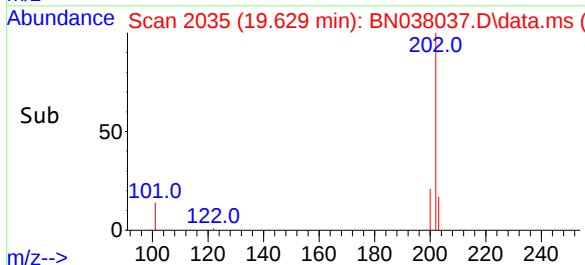
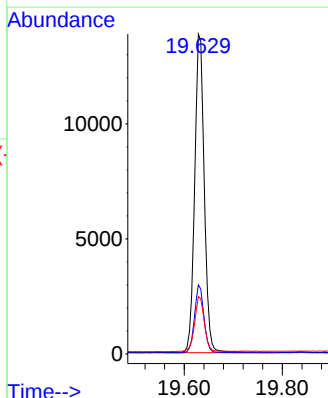
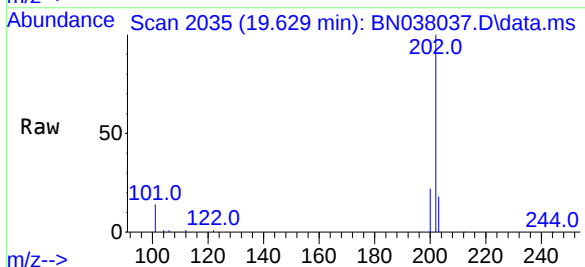
Instrument :
BNA_N
ClientSampleId :
PB169904BS

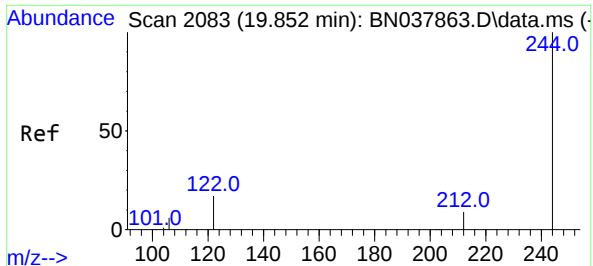
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.9	11.4	17.2
236	28.9	23.0	34.6



#30
Pyrene
Concen: 0.468 ng
RT: 19.629 min Scan# 2035
Delta R.T. -0.019 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.7	14.2	21.4

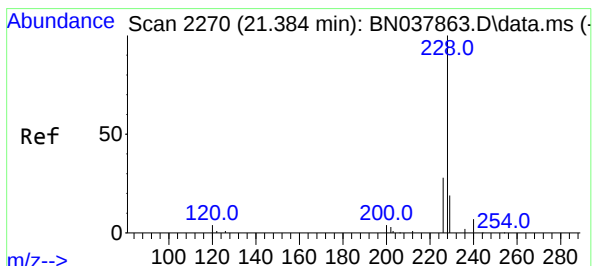
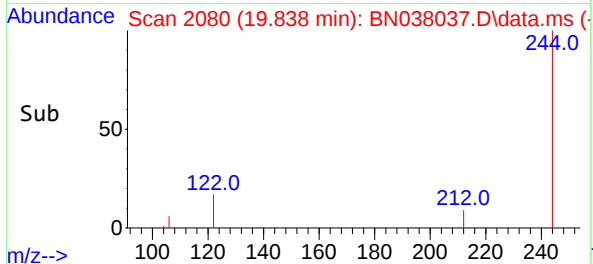
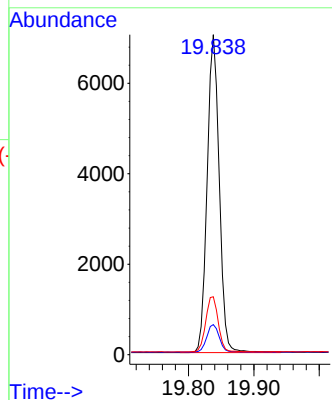
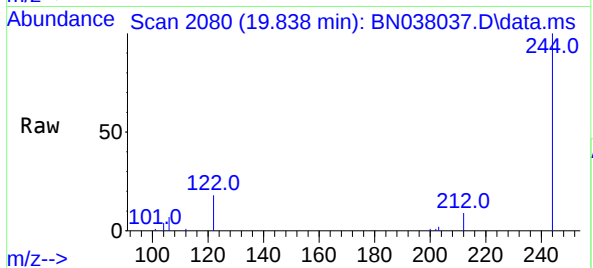




#31
Terphenyl-d14
Concen: 0.444 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

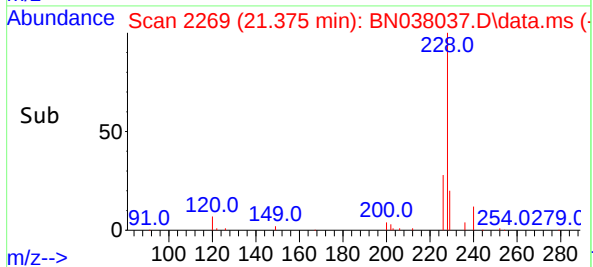
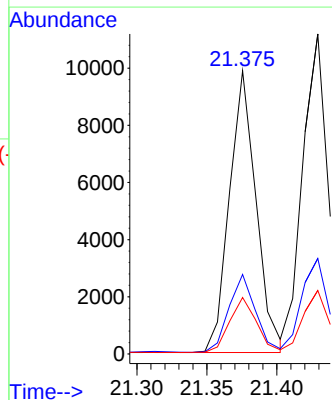
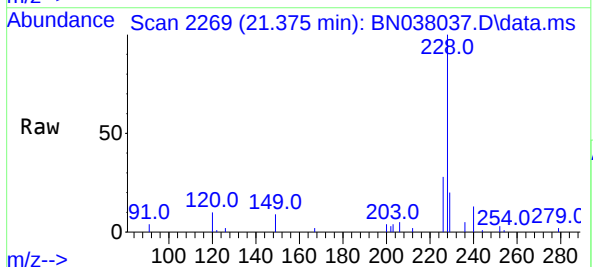
Instrument :
BNA_N
ClientSampleId :
PB169904BS

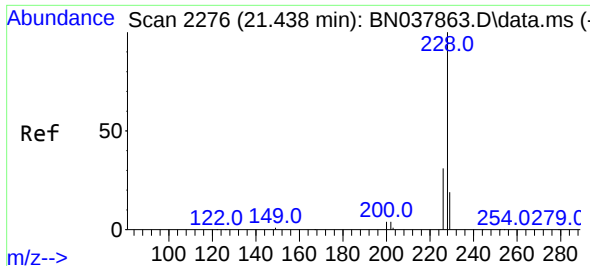
Tgt Ion:244 Resp: 9014
Ion Ratio Lower Upper
244 100
212 9.4 7.6 11.4
122 18.1 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.367 ng
RT: 21.375 min Scan# 2269
Delta R.T. -0.009 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:228 Resp: 13066
Ion Ratio Lower Upper
228 100
226 28.1 22.6 33.8
229 19.9 15.6 23.4

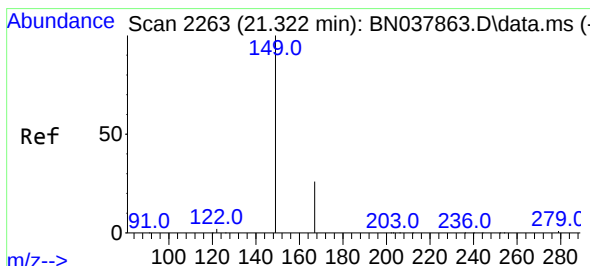
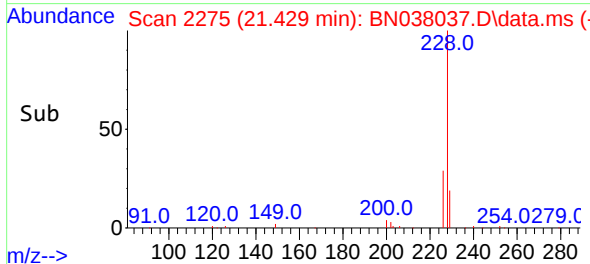
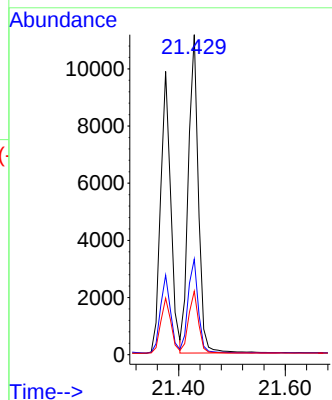
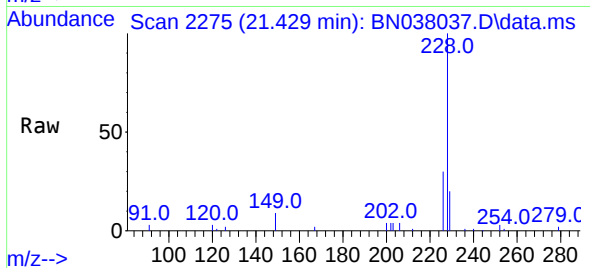




#33
Chrysene
Concen: 0.378 ng
RT: 21.429 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

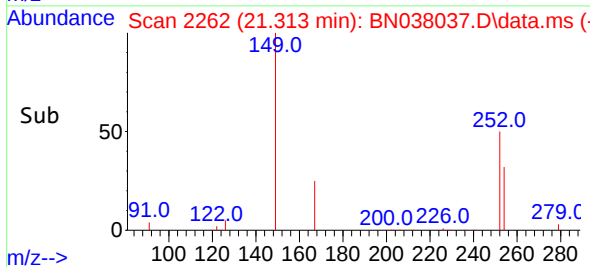
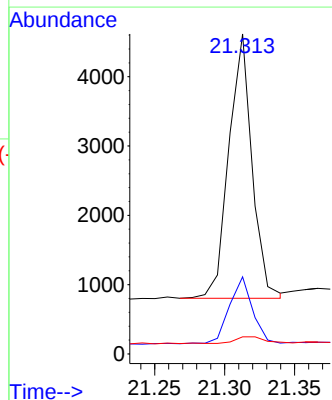
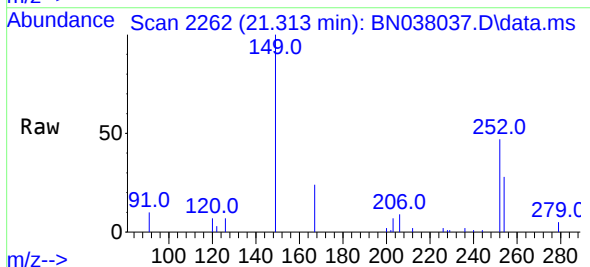
Instrument :
BNA_N
ClientSampleId :
PB169904BS

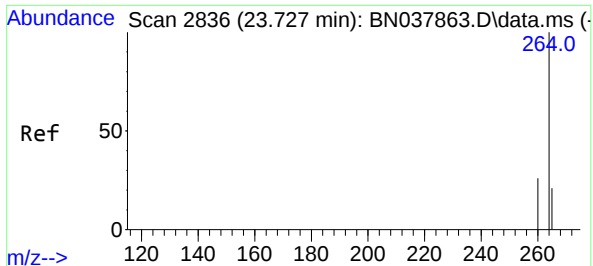
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.6	37.0
229	19.8	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.312 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.009 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.7	20.4	30.6
279	3.5	2.4	3.6

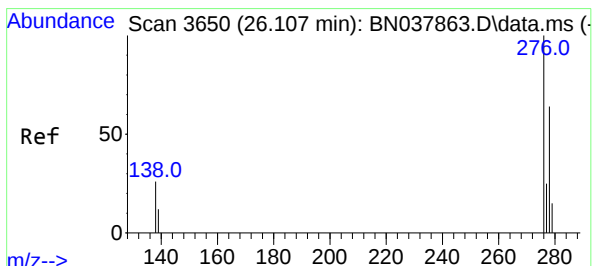
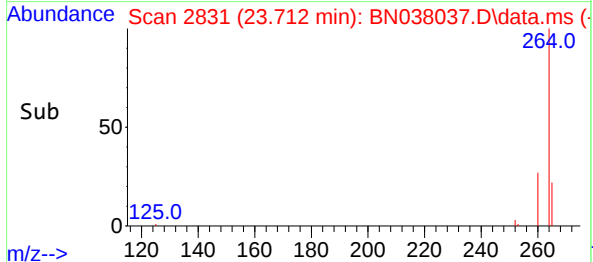
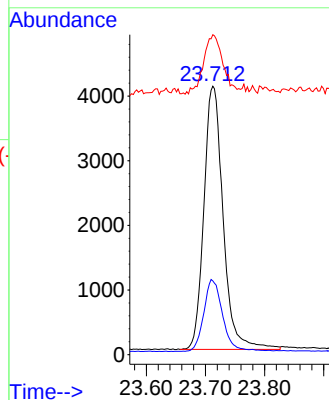
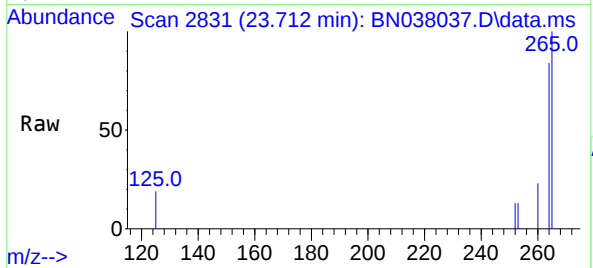




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.712 min Scan# 21
Delta R.T. -0.015 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

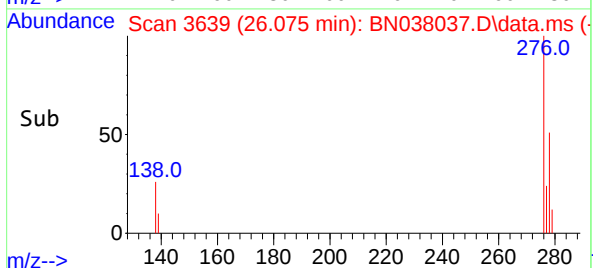
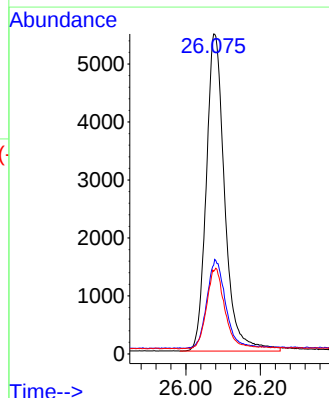
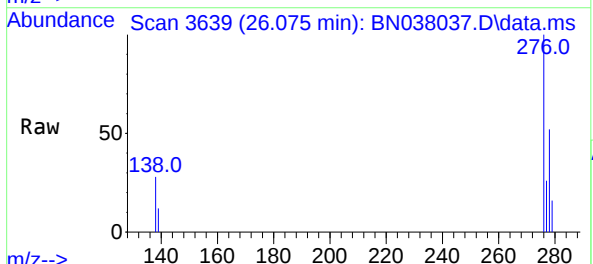
Instrument :
BNA_N
ClientSampleId :
PB169904BS

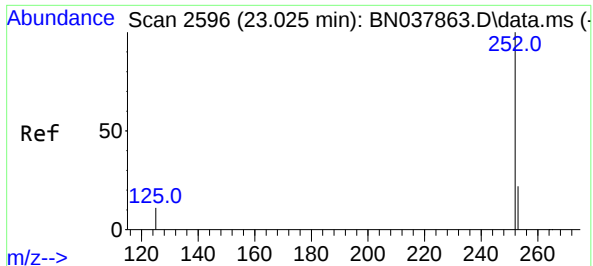
Tgt Ion:264 Resp: 9225
Ion Ratio Lower Upper
264 100
260 27.5 21.5 32.3
265 119.2 53.8 80.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.447 ng
RT: 26.075 min Scan# 3639
Delta R.T. -0.032 min
Lab File: BN038037.D
Acq: 07 Oct 2025 08:35

Tgt Ion:276 Resp: 18823
Ion Ratio Lower Upper
276 100
138 28.2 21.4 32.0
277 24.8 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.364 ng

RT: 23.011 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN038037.D

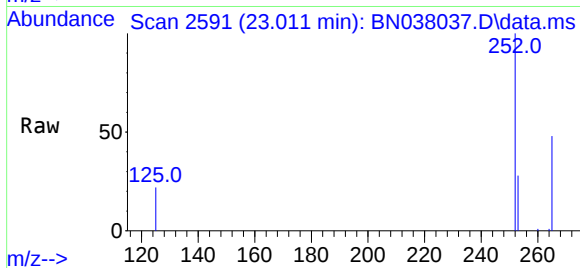
Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

ClientSampleId :

PB169904BS



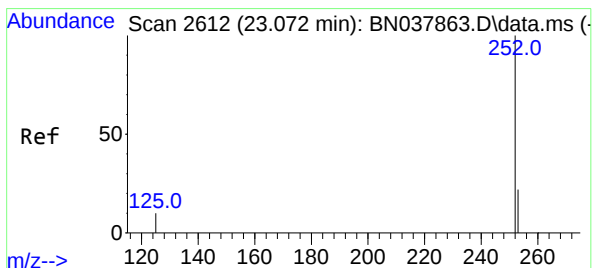
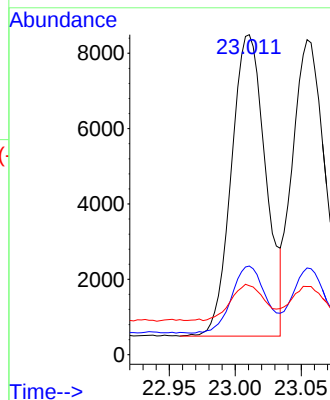
Tgt Ion:252 Resp: 14479

Ion Ratio Lower Upper

252 100

253 27.7 19.4 29.0

125 21.5 13.0 19.4#



#38

Benzo(k)fluoranthene

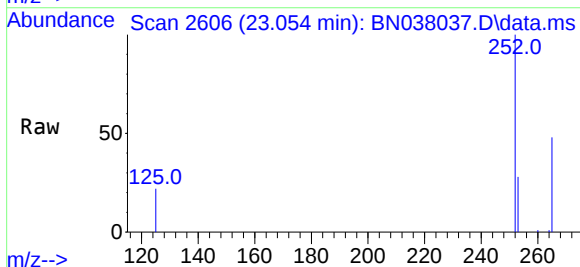
Concen: 0.348 ng

RT: 23.054 min Scan# 2606

Delta R.T. -0.018 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35



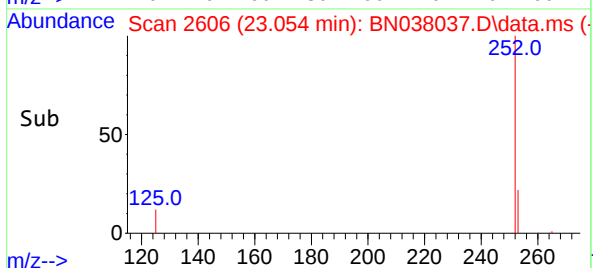
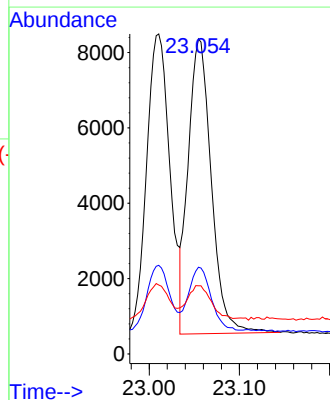
Tgt Ion:252 Resp: 13922

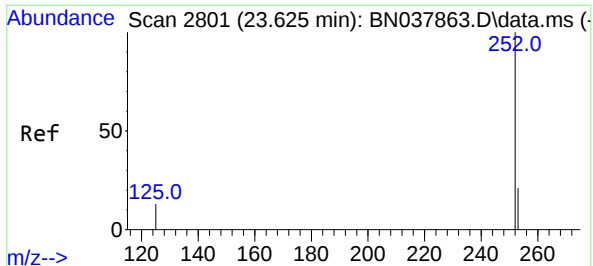
Ion Ratio Lower Upper

252 100

253 27.5 19.5 29.3

125 21.6 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.610 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN038037.D

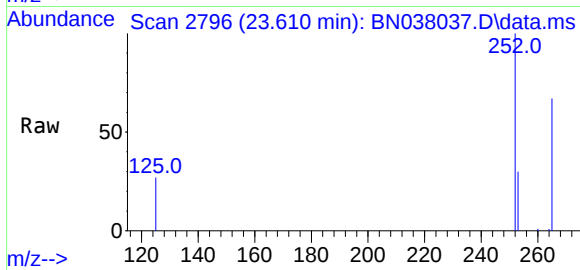
Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

ClientSampleId :

PB169904BS



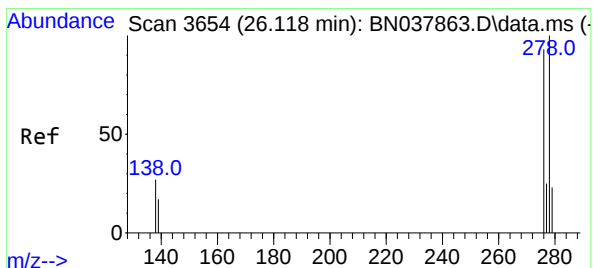
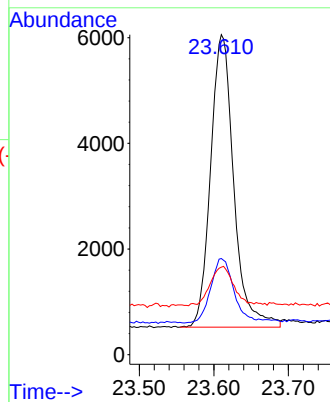
Tgt Ion:252 Resp: 11961

Ion Ratio Lower Upper

252 100

253 30.0 20.6 30.8

125 27.3 16.7 25.1#



#40

Dibenzo(a,h)anthracene

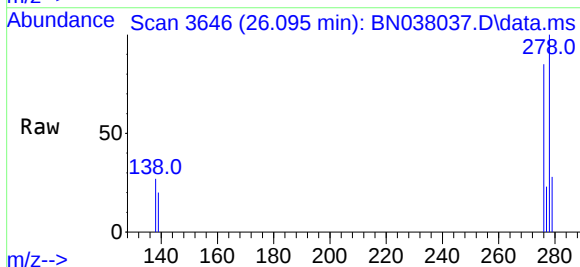
Concen: 0.446 ng

RT: 26.095 min Scan# 3646

Delta R.T. -0.023 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35



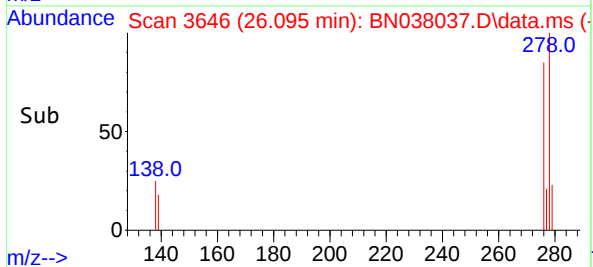
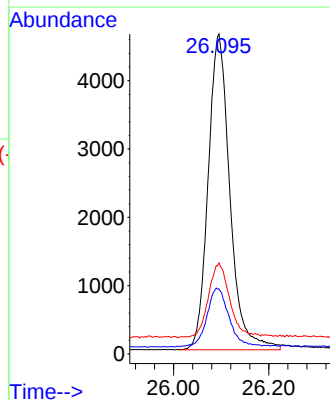
Tgt Ion:278 Resp: 14671

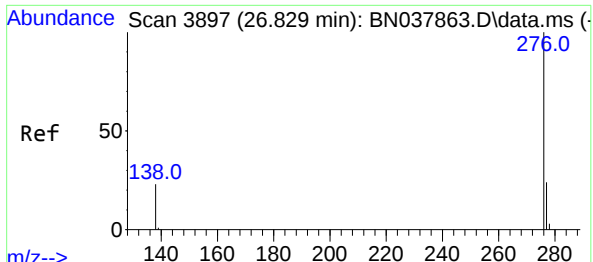
Ion Ratio Lower Upper

278 100

139 20.3 15.4 23.2

279 28.5 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.472 ng

RT: 26.800 min Scan# 3887

Delta R.T. -0.029 min

Lab File: BN038037.D

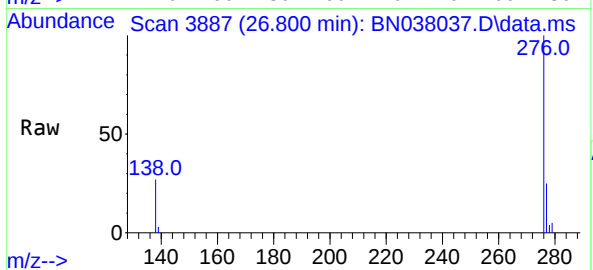
Acq: 07 Oct 2025 08:35

Instrument :

BNA_N

ClientSampleId :

PB169904BS



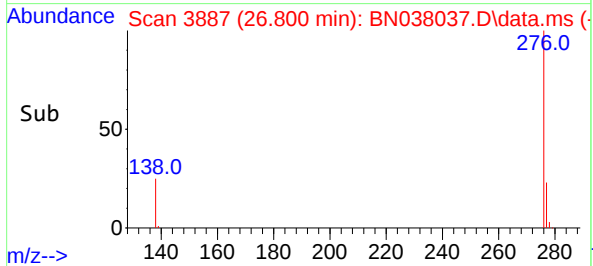
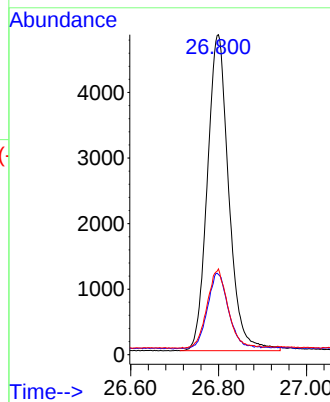
Tgt Ion:276 Resp: 16336

Ion Ratio Lower Upper

276 100

277 25.1 20.2 30.4

138 26.8 19.8 29.8



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169904BSD	SDG No.:	Q3213
Lab Sample ID:	PB169904BSD	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
BN038038.D	1	09/26/25 13:15	10/07/25 09:11	PB169904

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		80%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		71%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.40		55 - 111		100%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.51		58 - 132		128%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9180	7.804				
1146-65-2	Naphthalene-d8	24800	10.605				
15067-26-2	Acenaphthene-d10	12000	14.452				
1517-22-2	Phenanthrene-d10	22000	17.21				
1719-03-5	Chrysene-d12	11700	21.393				
1520-96-3	Perylene-d12	9470	23.709				

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\BN100625\
 Data File : BN038038.D
 Acq On : 07 Oct 2025 09:11
 Operator : RC/JU
 Sample : PB169904BSD
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169904BSD

Quant Time: Oct 07 10:39:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

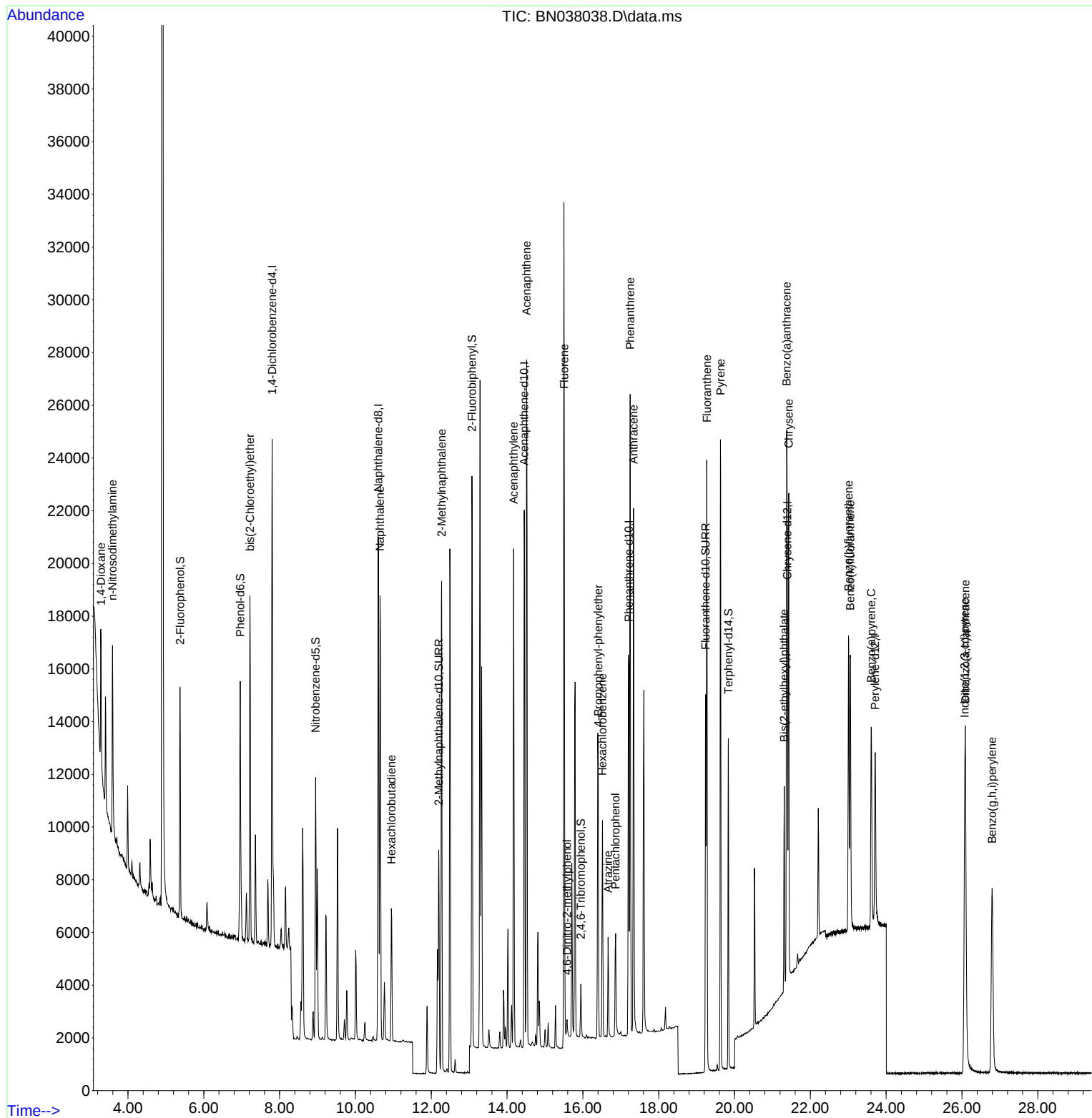
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	9176	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	24837	0.400	ng	-0.02
13) Acenaphthene-d10	14.452	164	12022	0.400	ng	-0.02
19) Phenanthrene-d10	17.210	188	21952	0.400	ng	#-0.01
29) Chrysene-d12	21.393	240	11724	0.400	ng	0.00
35) Perylene-d12	23.709	264	9473	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.377	112	7012	0.335	ng	0.00
5) Phenol-d6	6.959	99	8659	0.315	ng	-0.01
8) Nitrobenzene-d5	8.950	82	7548	0.398	ng	-0.02
11) 2-Methylnaphthalene-d10	12.197	152	11018	0.319	ng	-0.02
14) 2,4,6-Tribromophenol	15.944	330	1160	0.254	ng	-0.02
15) 2-Fluorobiphenyl	13.073	172	18030	0.366	ng	-0.02
27) Fluoranthene-d10	19.238	212	15684	0.284	ng	-0.01
31) Terphenyl-d14	19.838	244	11981	0.513	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.290	88	2987	0.321	ng	# 66
3) n-Nitrosodimethylamine	3.593	42	4347	0.351	ng	# 90
6) bis(2-Chloroethyl)ether	7.219	93	8835	0.346	ng	97
9) Naphthalene	10.648	128	23095	0.338	ng	100
10) Hexachlorobutadiene	10.946	225	4175	0.358	ng	# 99
12) 2-Methylnaphthalene	12.273	142	13049	0.292	ng	98
16) Acenaphthylene	14.174	152	20187	0.370	ng	99
17) Acenaphthene	14.516	154	12518	0.322	ng	98
18) Fluorene	15.510	166	14578	0.310	ng	98
20) 4,6-Dinitro-2-methylph...	15.584	198	600	0.283	ng	# 63
21) 4-Bromophenyl-phenylether	16.404	248	4968	0.347	ng	# 85
22) Hexachlorobenzene	16.515	284	6169	0.356	ng	98
23) Atrazine	16.664	200	3032	0.278	ng	# 91
24) Pentachlorophenol	16.863	266	2342	0.394	ng	97
25) Phenanthrene	17.248	178	24612	0.341	ng	100
26) Anthracene	17.335	178	21292	0.340	ng	100
28) Fluoranthene	19.271	202	21690	0.273	ng	99
30) Pyrene	19.629	202	21147	0.457	ng	100
32) Benzo(a)anthracene	21.375	228	14611	0.357	ng	99
33) Chrysene	21.429	228	15951	0.360	ng	99
34) Bis(2-ethylhexyl)phtha...	21.313	149	4629	0.286	ng	# 98
36) Indeno(1,2,3-cd)pyrene	26.074	276	17647	0.408	ng	98
37) Benzo(b)fluoranthene	23.008	252	14576	0.357	ng	# 92
38) Benzo(k)fluoranthene	23.054	252	14328	0.349	ng	# 91
39) Benzo(a)pyrene	23.607	252	12131	0.375	ng	# 89
40) Dibenzo(a,h)anthracene	26.092	278	13828	0.409	ng	96
41) Benzo(g,h,i)perylene	26.794	276	15498	0.436	ng	97

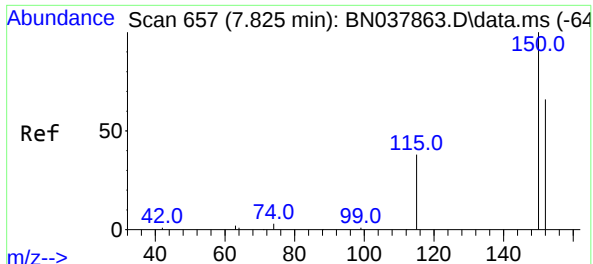
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038038.D
Acq On : 07 Oct 2025 09:11
Operator : RC/JU
Sample : PB169904BSD
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169904BSD

Quant Time: Oct 07 10:39:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

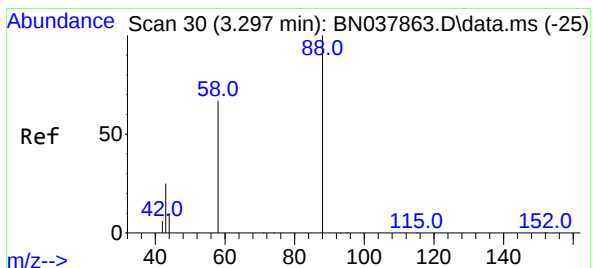
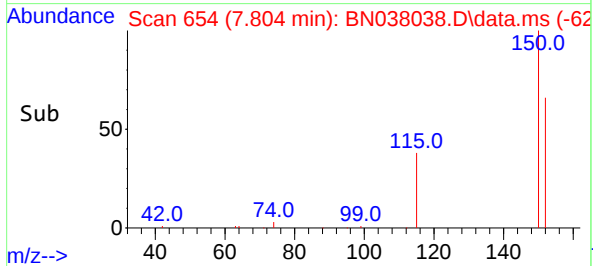
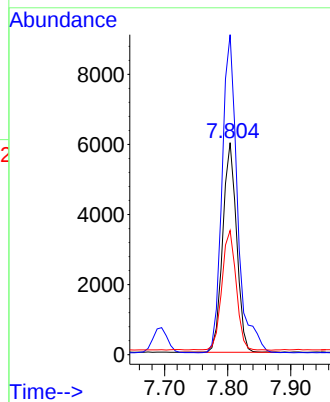
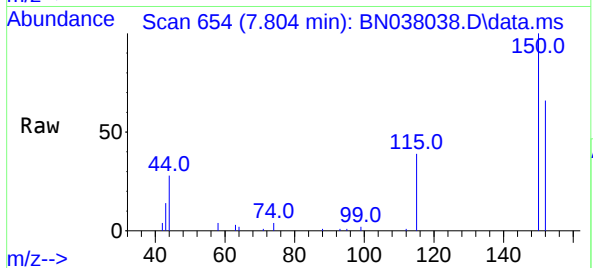




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.804 min Scan# 61
Delta R.T. -0.021 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

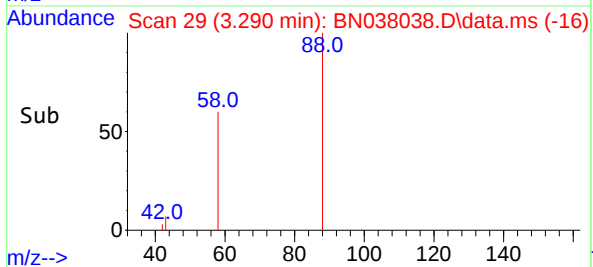
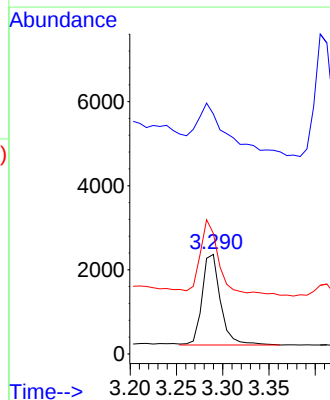
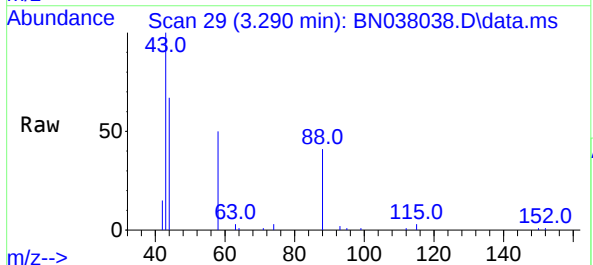
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

Tgt Ion:152 Resp: 9176
Ion Ratio Lower Upper
152 100
150 150.9 121.0 181.4
115 58.6 47.4 71.0

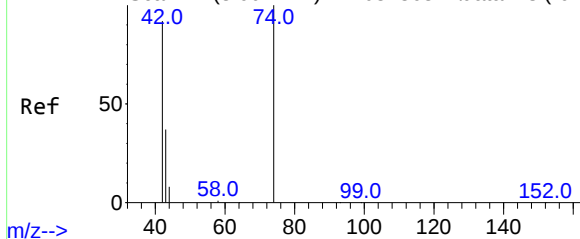


#2
1,4-Dioxane
Concen: 0.321 ng
RT: 3.290 min Scan# 29
Delta R.T. -0.007 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion: 88 Resp: 2987
Ion Ratio Lower Upper
88 100
43 78.2 26.6 39.8#
58 84.8 58.9 88.3



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.351 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

Instrument :

BNA_N

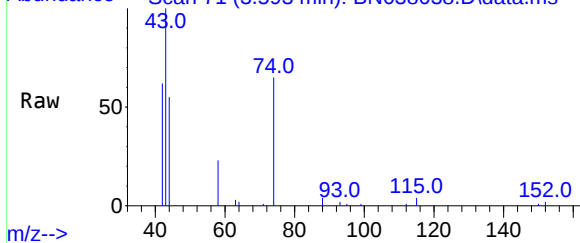
ClientSampleId :

PB169904BSD

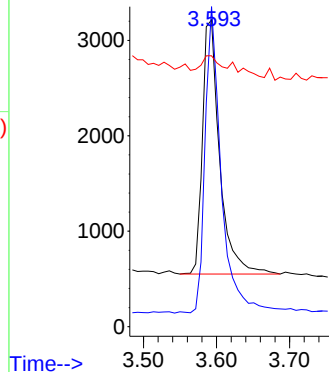
Tgt Ion: 42 Resp: 4347

Ion	Ratio	Lower	Upper
42	100		
74	114.6	93.4	140.0
44	5.1	22.2	33.4#

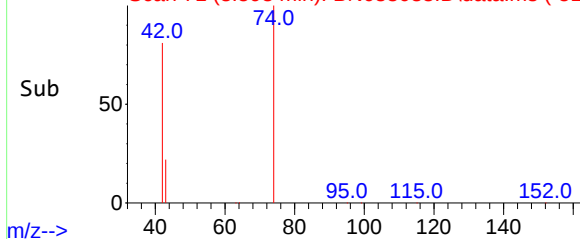
Abundance Scan 71 (3.593 min): BN038038.D\data.ms



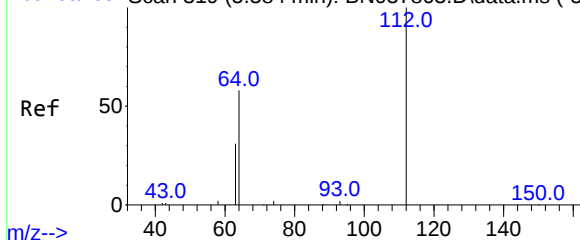
Abundance



Abundance Scan 71 (3.593 min): BN038038.D\data.ms (-51)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.335 ng

RT: 5.377 min Scan# 318

Delta R.T. -0.007 min

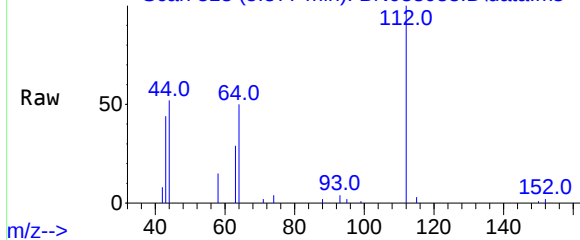
Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

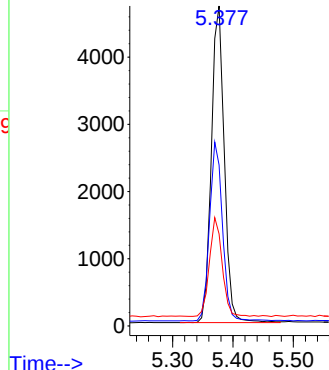
Tgt Ion: 112 Resp: 7012

Ion	Ratio	Lower	Upper
112	100		
64	57.0	44.6	66.8
63	30.7	24.9	37.3

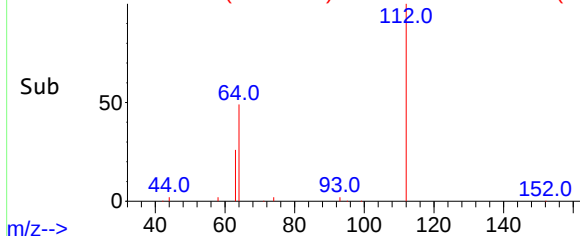
Abundance Scan 318 (5.377 min): BN038038.D\data.ms

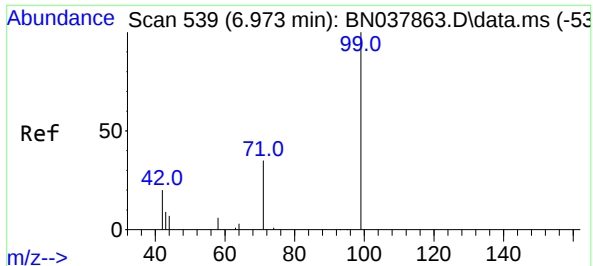


Abundance



Abundance Scan 318 (5.377 min): BN038038.D\data.ms (-29)

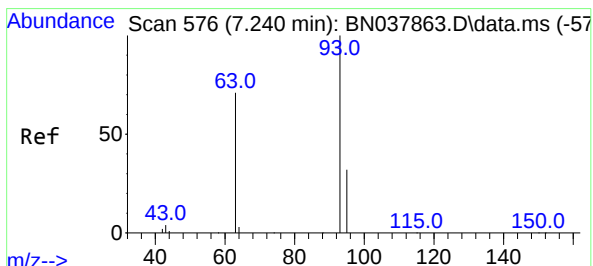
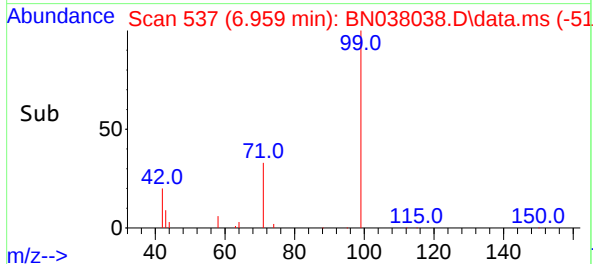
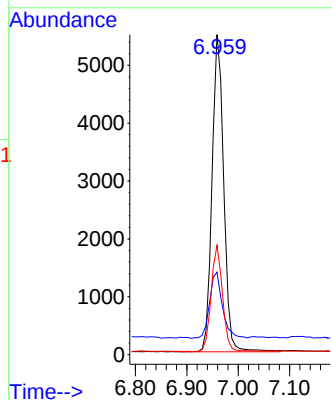
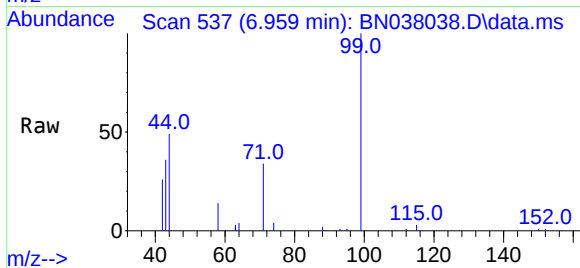




#5
Phenol-d6
Concen: 0.315 ng
RT: 6.959 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

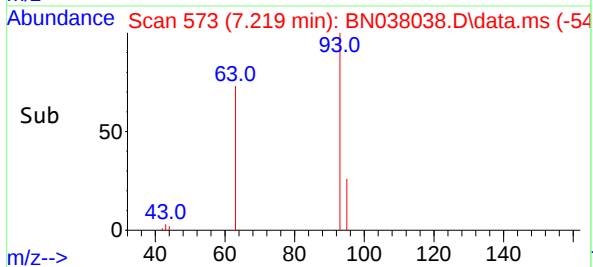
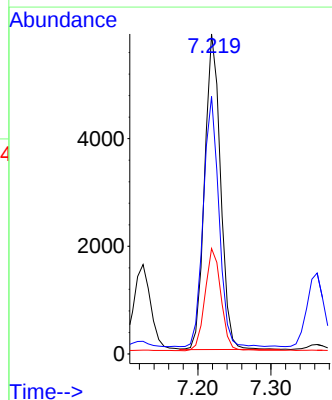
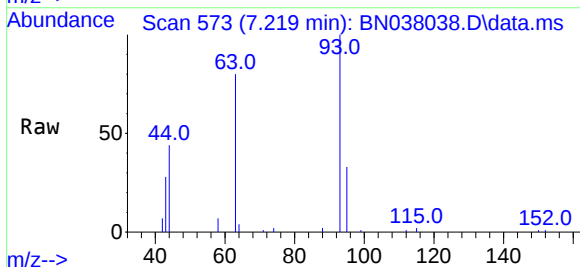
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

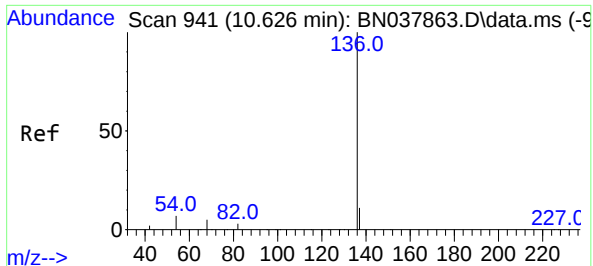
Tgt Ion: 99 Resp: 8659
Ion Ratio Lower Upper
99 100
42 23.1 17.2 25.8
71 32.8 27.3 40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.346 ng
RT: 7.219 min Scan# 573
Delta R.T. -0.022 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion: 93 Resp: 8835
Ion Ratio Lower Upper
93 100
63 78.3 60.1 90.1
95 32.5 25.4 38.2



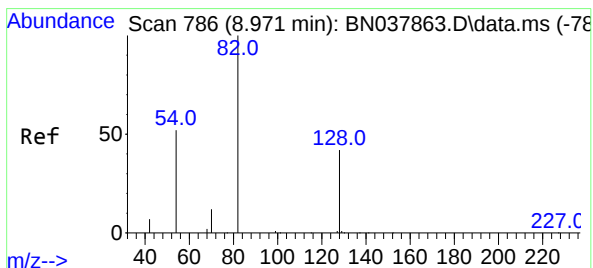
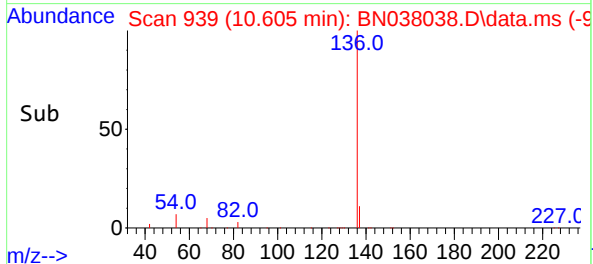
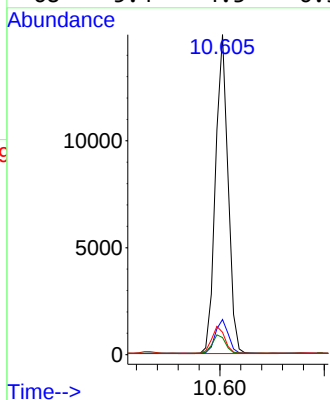
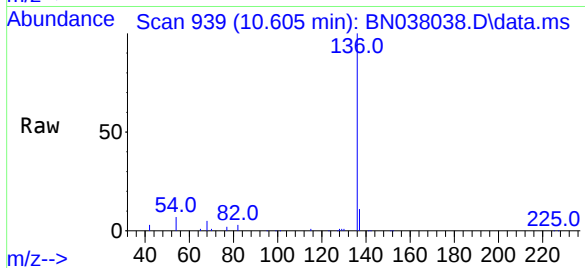


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.021 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Instrument :
BNA_N
ClientSampleId :
PB169904BSD

Tgt Ion:136 Resp: 24837

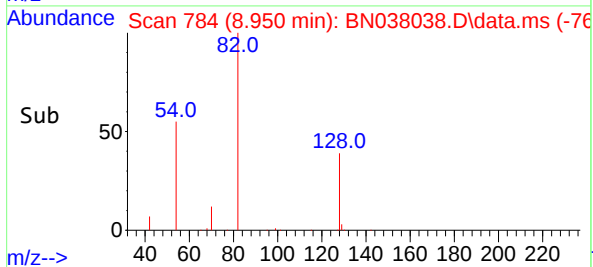
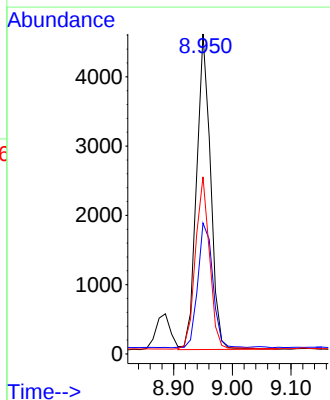
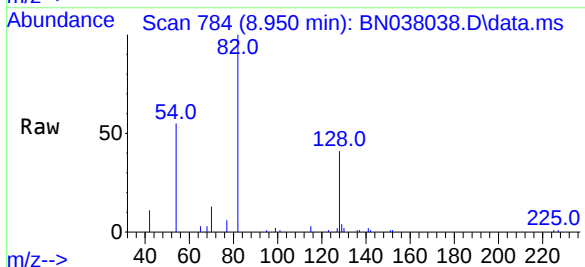
Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	7.0	5.8	8.8
68	5.4	4.3	6.5

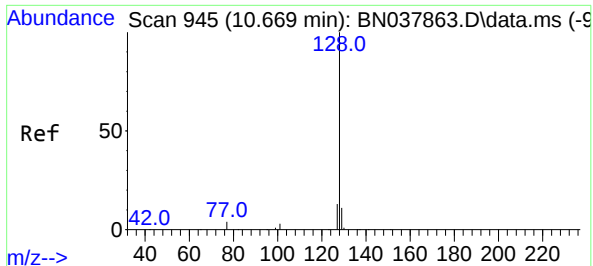


#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.021 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion: 82 Resp: 7548

Ion	Ratio	Lower	Upper
82	100		
128	40.9	34.8	52.2
54	55.3	42.2	63.2

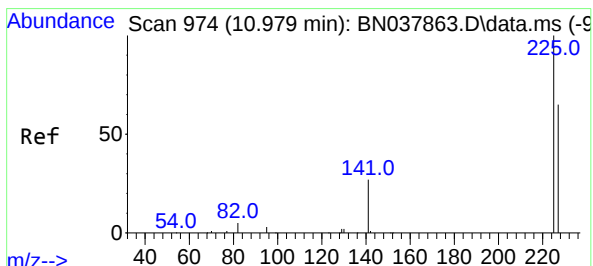
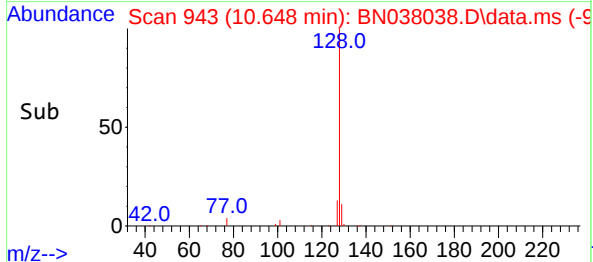
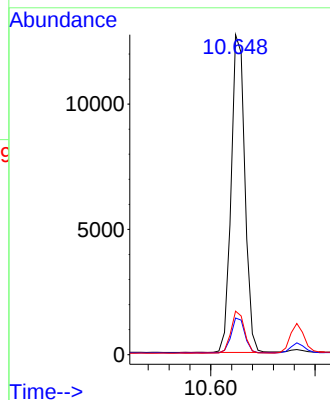
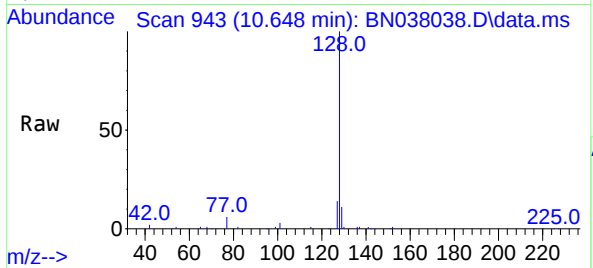




#9
Naphthalene
Concen: 0.338 ng
RT: 10.648 min Scan# 941
Delta R.T. -0.021 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

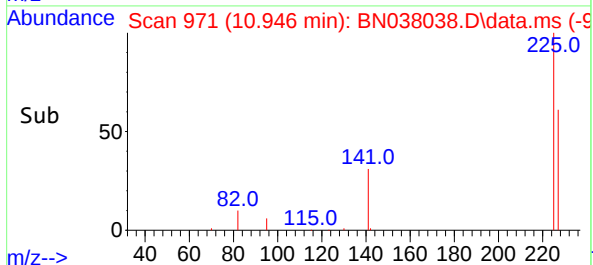
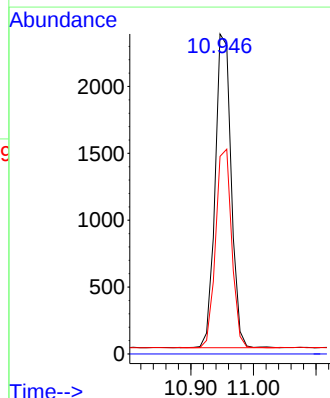
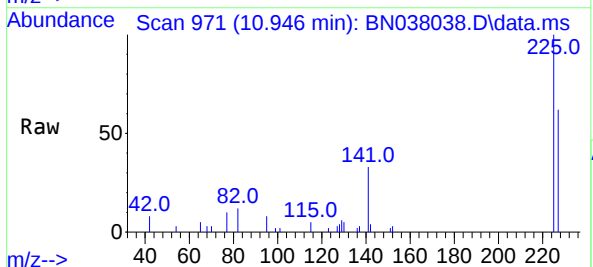
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

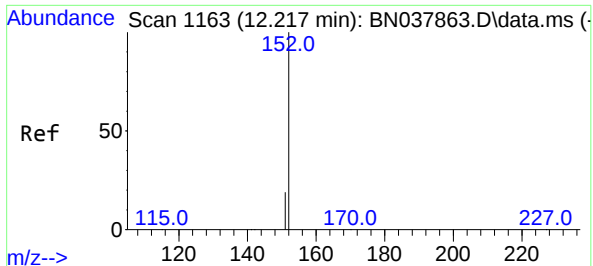
Tgt Ion:128 Resp: 23095
Ion Ratio Lower Upper
128 100
129 11.5 9.2 13.8
127 13.6 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.358 ng
RT: 10.946 min Scan# 971
Delta R.T. -0.032 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:225 Resp: 4175
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 51.4 77.2

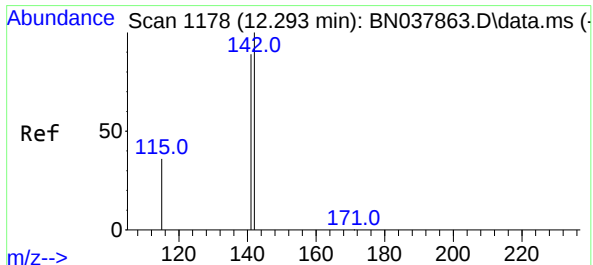
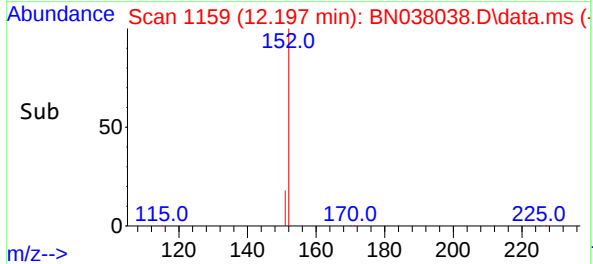
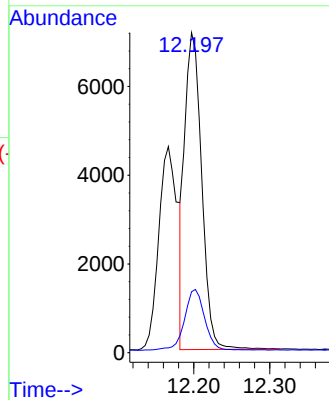
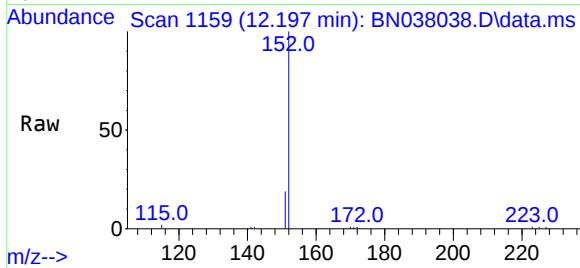




#11
2-Methylnaphthalene-d10
Concen: 0.319 ng
RT: 12.197 min Scan# 1163
Delta R.T. -0.020 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

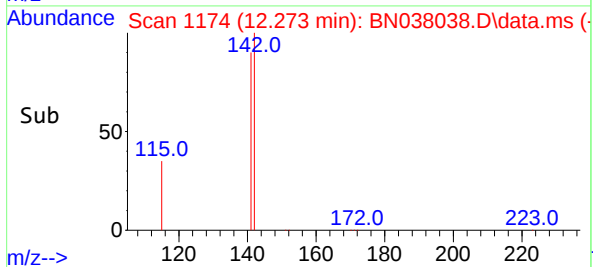
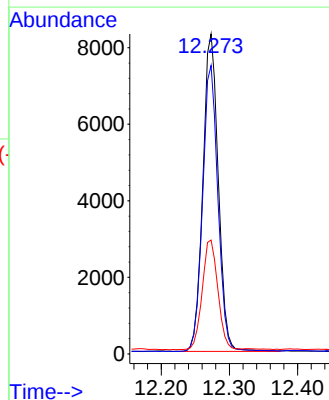
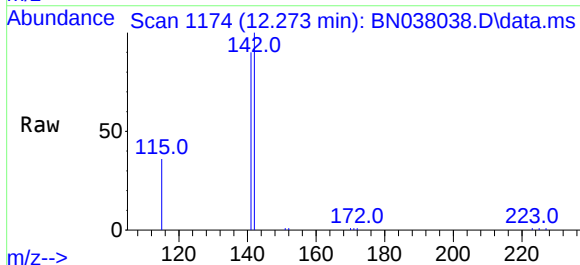
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

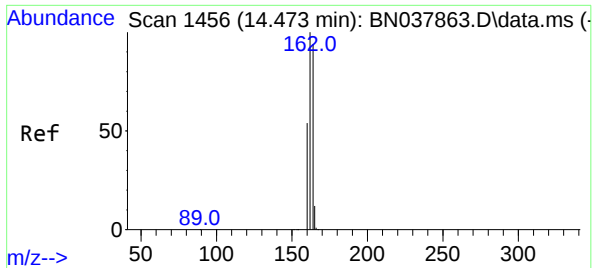
Tgt Ion:152 Resp: 11018
Ion Ratio Lower Upper
152 100
151 22.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.292 ng
RT: 12.273 min Scan# 1174
Delta R.T. -0.020 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:142 Resp: 13049
Ion Ratio Lower Upper
142 100
141 90.2 71.2 106.8
115 35.6 29.7 44.5

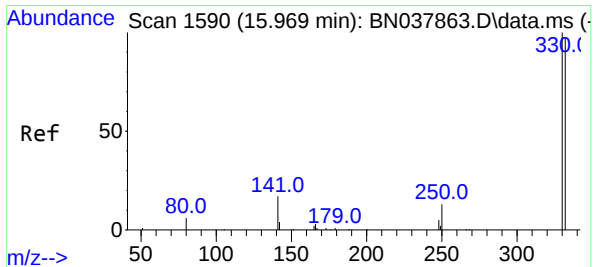
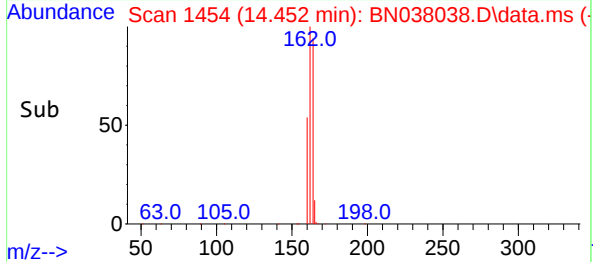
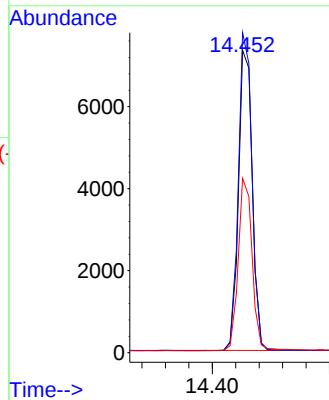
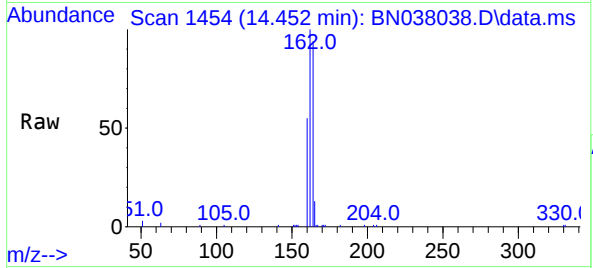




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.022 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

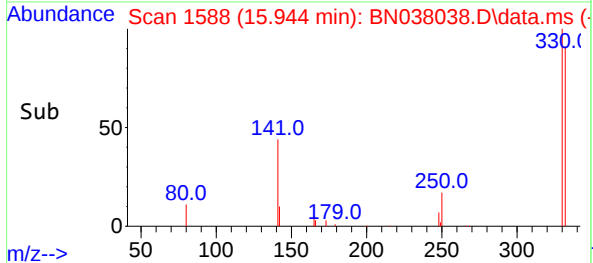
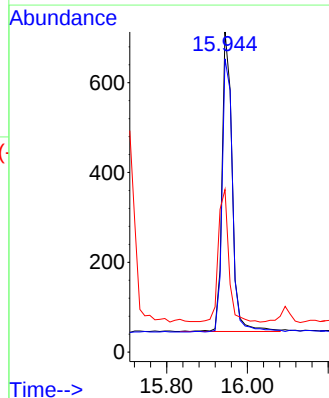
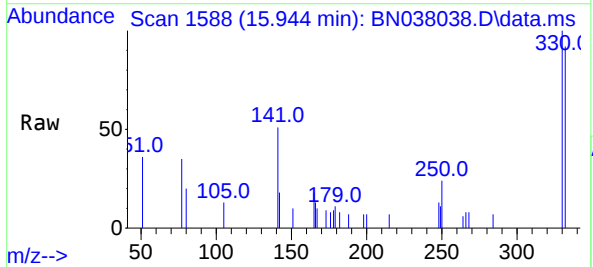
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

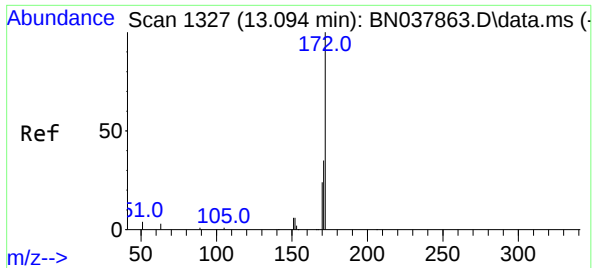
Tgt Ion:164 Resp: 12022
Ion Ratio Lower Upper
164 100
162 105.9 84.8 127.2
160 57.7 46.1 69.1



#14
2,4,6-Tribromophenol
Concen: 0.254 ng
RT: 15.944 min Scan# 1588
Delta R.T. -0.025 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:330 Resp: 1160
Ion Ratio Lower Upper
330 100
332 94.5 77.2 115.8
141 45.6 37.2 55.8

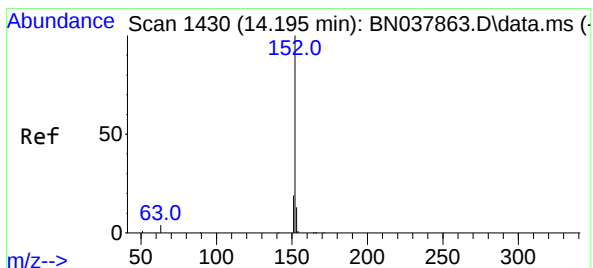
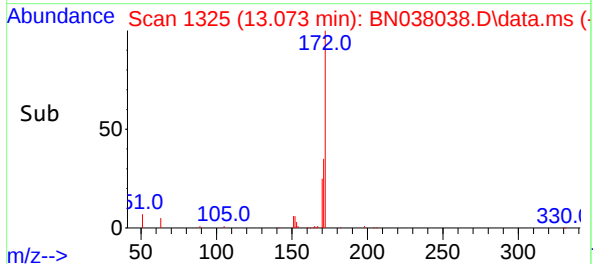
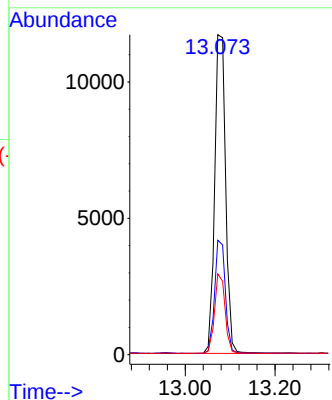
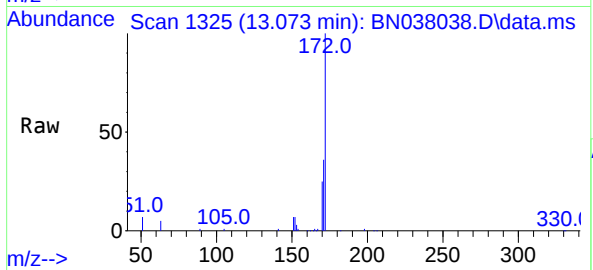




#15
2-Fluorobiphenyl
Concen: 0.366 ng
RT: 13.073 min Scan# 11
Delta R.T. -0.021 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

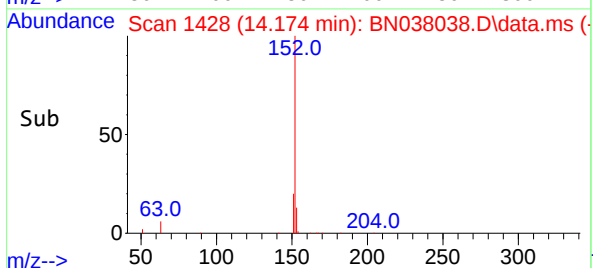
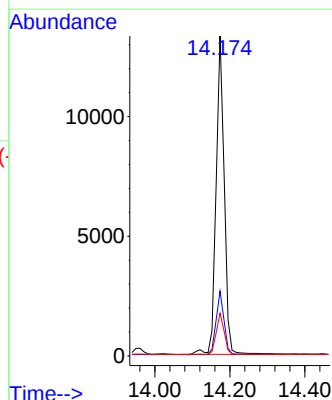
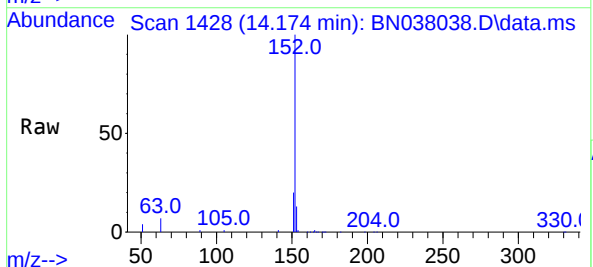
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

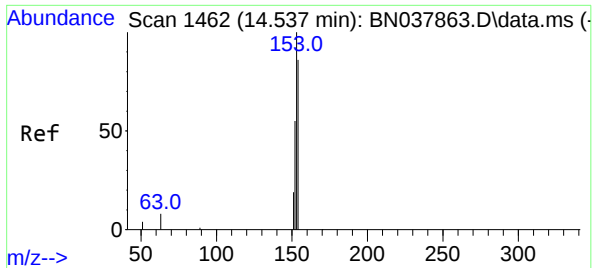
Tgt Ion:172 Resp: 18030
Ion Ratio Lower Upper
172 100
171 35.8 28.6 43.0
170 25.3 19.7 29.5



#16
Acenaphthylene
Concen: 0.370 ng
RT: 14.174 min Scan# 1428
Delta R.T. -0.021 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:152 Resp: 20187
Ion Ratio Lower Upper
152 100
151 19.4 15.8 23.8
153 12.9 10.5 15.7

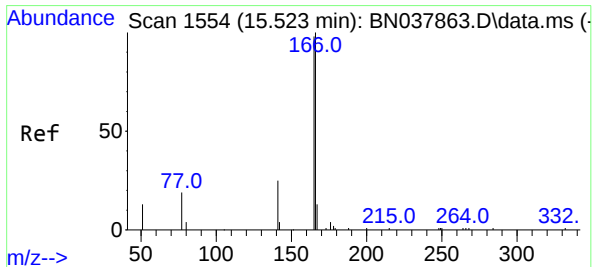
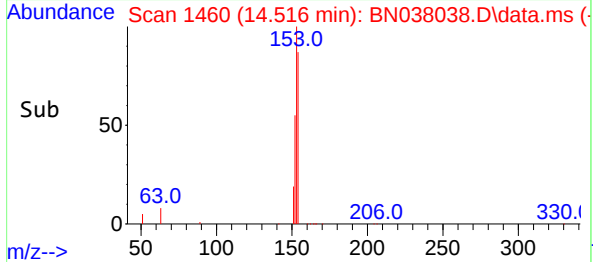
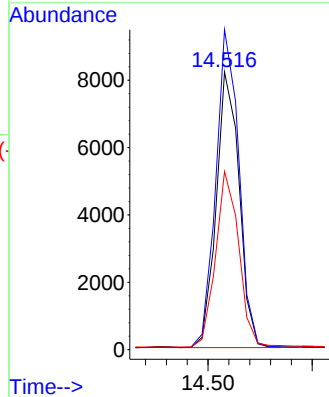
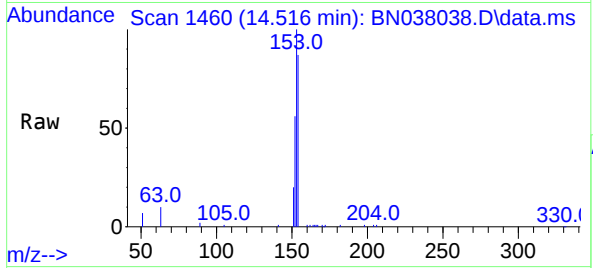




#17
Acenaphthene
Concen: 0.322 ng
RT: 14.516 min Scan# 1460
Delta R.T. -0.021 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

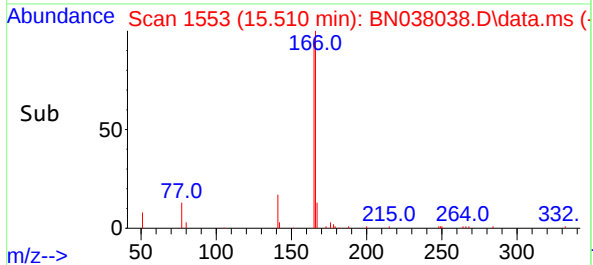
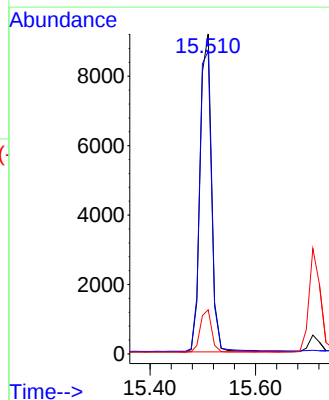
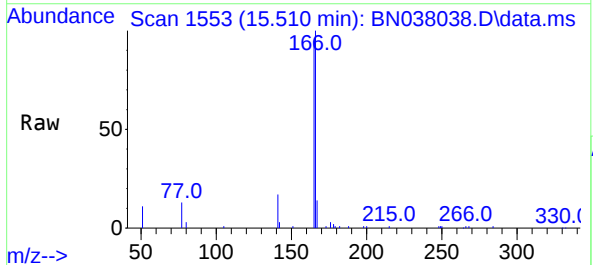
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

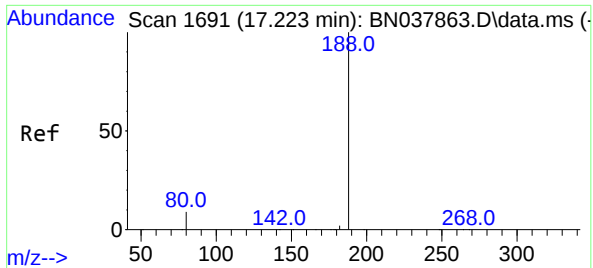
Tgt Ion:154 Resp: 12518
Ion Ratio Lower Upper
154 100
153 116.1 90.5 135.7
152 65.5 51.8 77.8



#18
Fluorene
Concen: 0.310 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.013 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:166 Resp: 14578
Ion Ratio Lower Upper
166 100
165 96.6 79.0 118.4
167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

Instrument :

BNA_N

ClientSampleId :

PB169904BSD

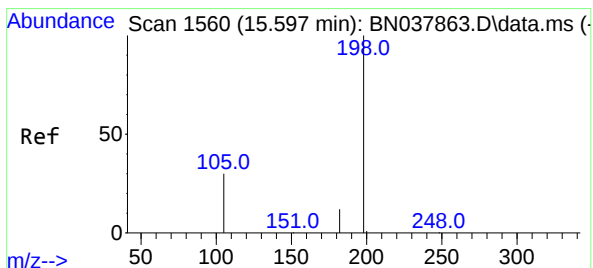
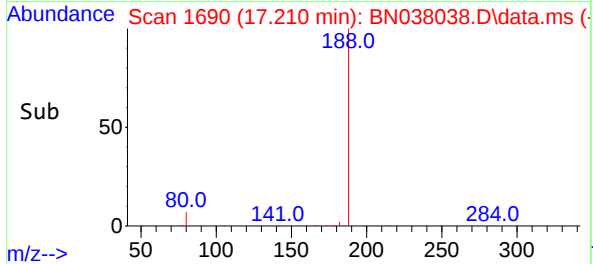
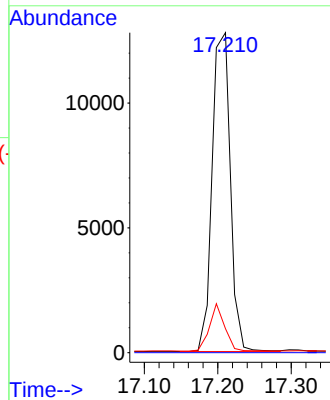
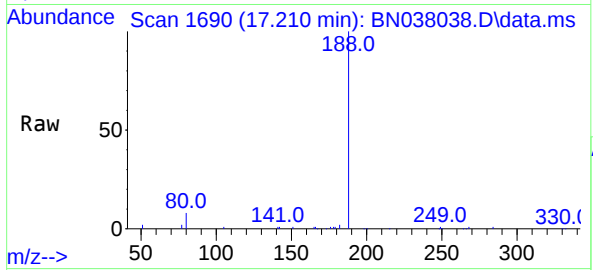
Tgt Ion:188 Resp: 21952

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.283 ng

RT: 15.584 min Scan# 1559

Delta R.T. -0.013 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

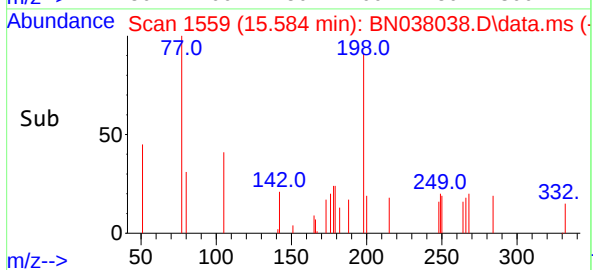
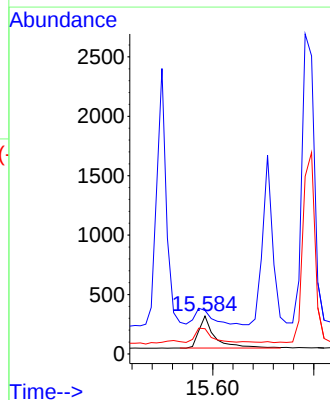
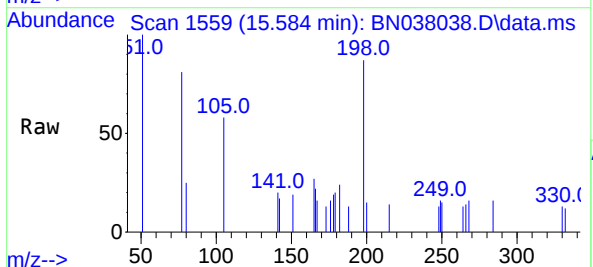
Tgt Ion:198 Resp: 600

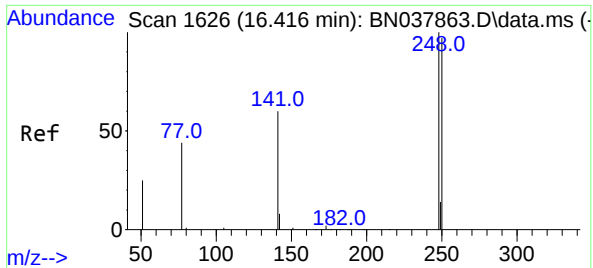
Ion Ratio Lower Upper

198 100

51 114.7 59.1 88.7#

105 66.8 41.3 61.9#

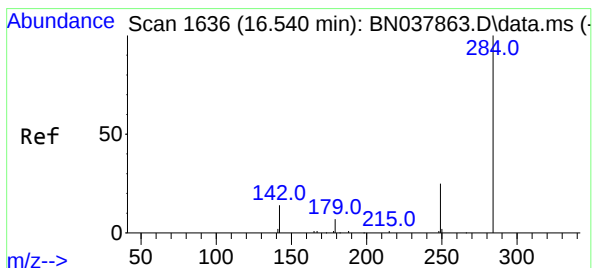
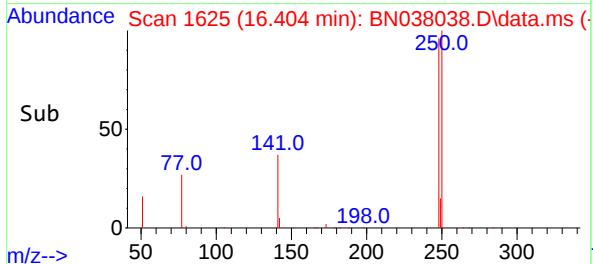
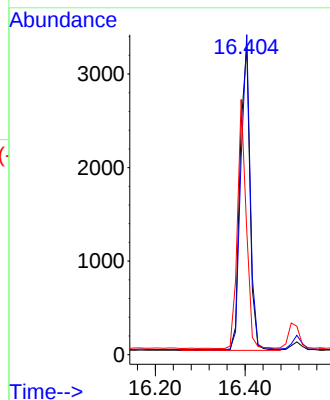
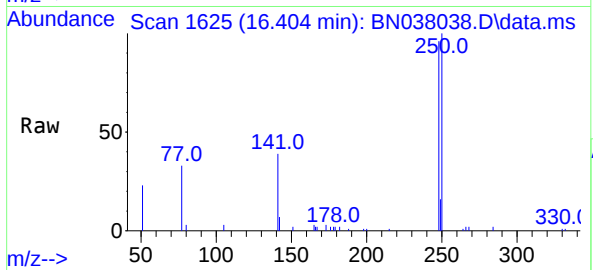




#21
4-Bromophenyl-phenylether
Concen: 0.347 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.013 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

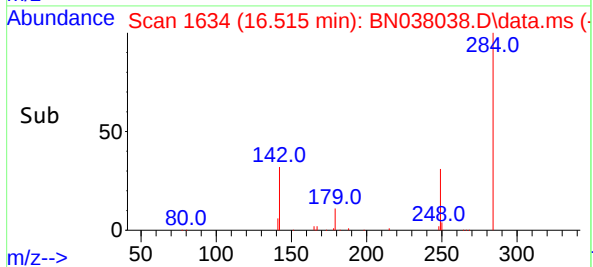
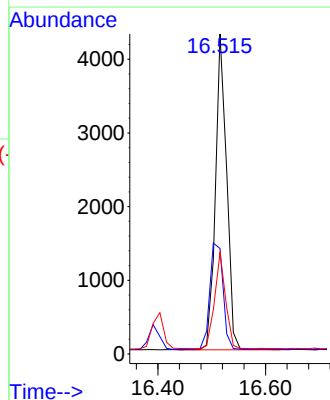
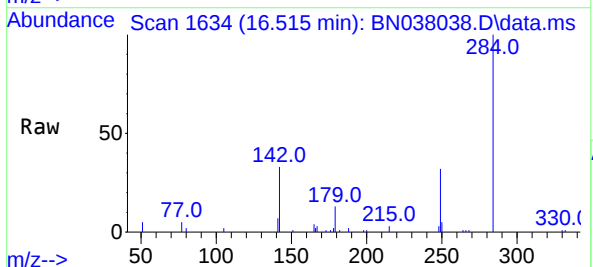
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

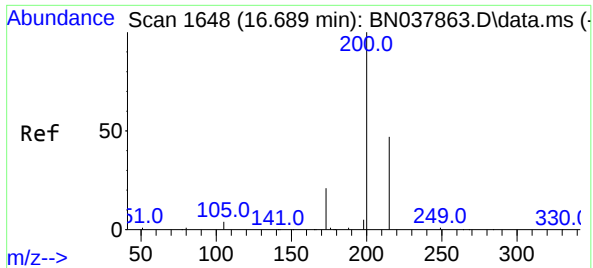
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.9	77.6	116.4
141	40.3	48.8	73.2#



#22
Hexachlorobenzene
Concen: 0.356 ng
RT: 16.515 min Scan# 1634
Delta R.T. -0.025 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion	Ratio	Lower	Upper
284	100		
142	40.1	30.9	46.3
249	30.0	23.9	35.9

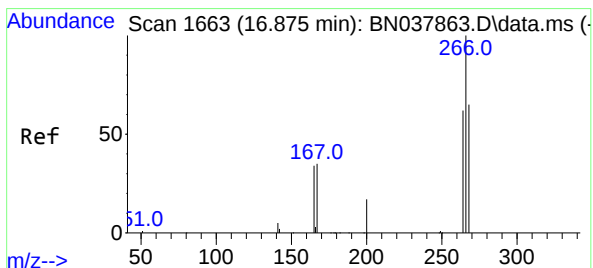
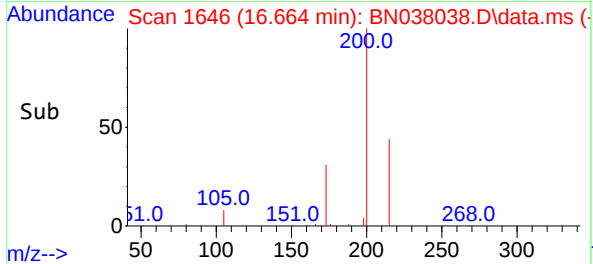
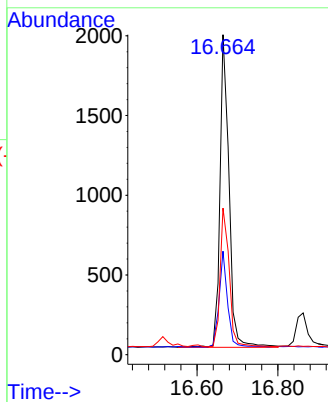
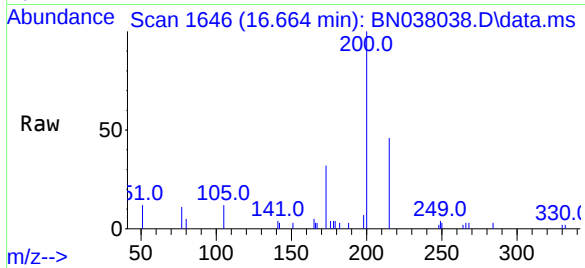




#23
Atrazine
Concen: 0.278 ng
RT: 16.664 min Scan# 1646
Delta R.T. -0.025 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

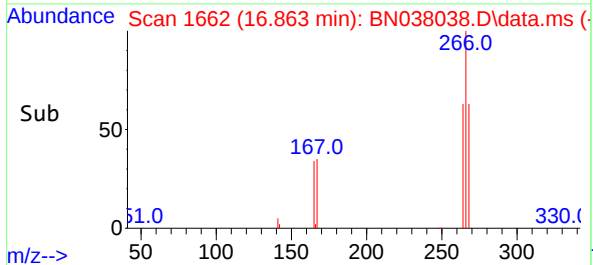
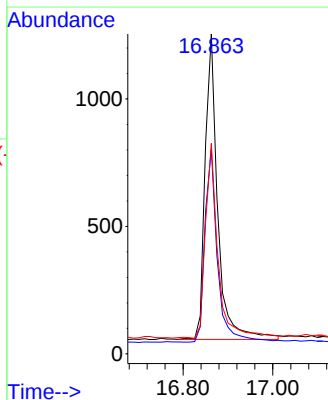
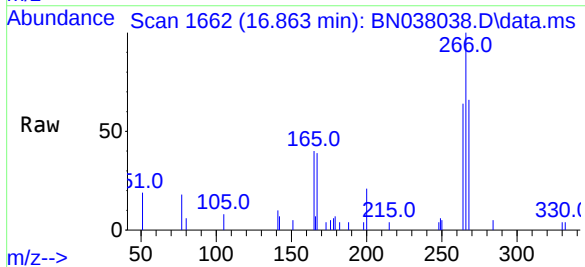
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

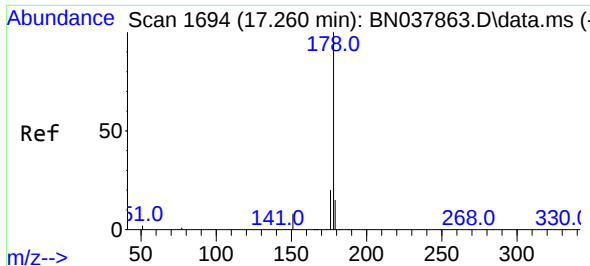
Tgt Ion:200 Resp: 3032
Ion Ratio Lower Upper
200 100
173 32.3 18.3 27.5#
215 45.8 38.6 58.0



#24
Pentachlorophenol
Concen: 0.394 ng
RT: 16.863 min Scan# 1662
Delta R.T. -0.012 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:266 Resp: 2342
Ion Ratio Lower Upper
266 100
264 62.8 50.9 76.3
268 63.9 54.3 81.5

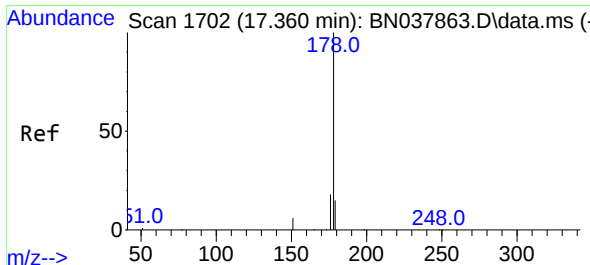
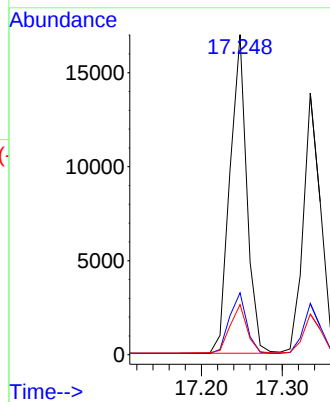
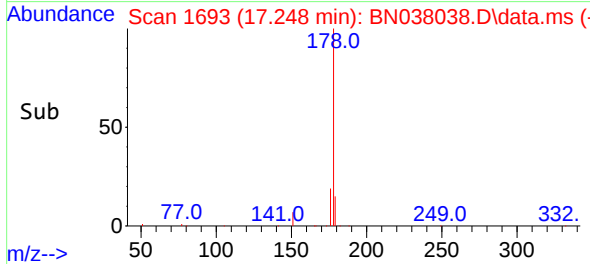
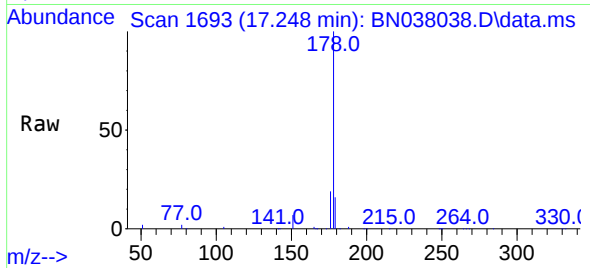




#25
Phenanthrene
Concen: 0.341 ng
RT: 17.248 min Scan# 1700
Delta R.T. -0.013 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

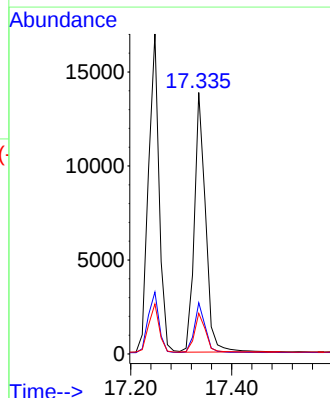
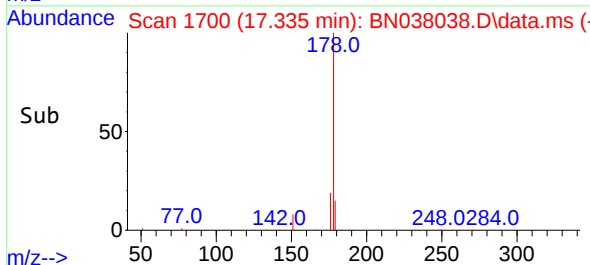
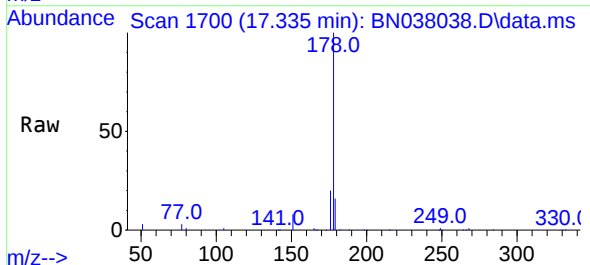
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

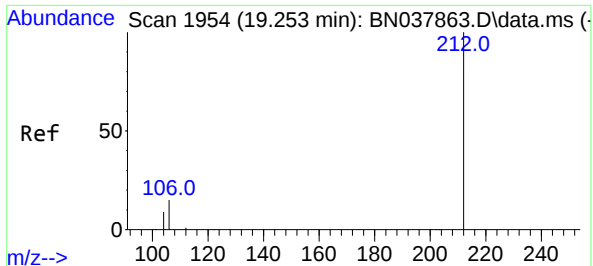
Tgt Ion:178 Resp: 24612
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.340 ng
RT: 17.335 min Scan# 1700
Delta R.T. -0.025 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:178 Resp: 21292
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.4
179 15.2 12.3 18.5

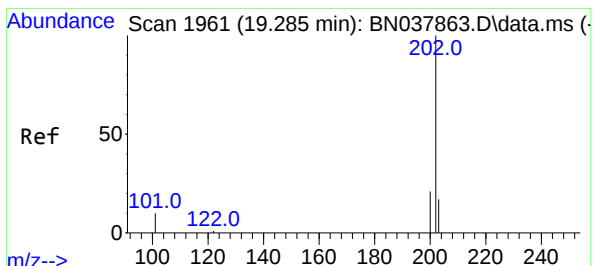
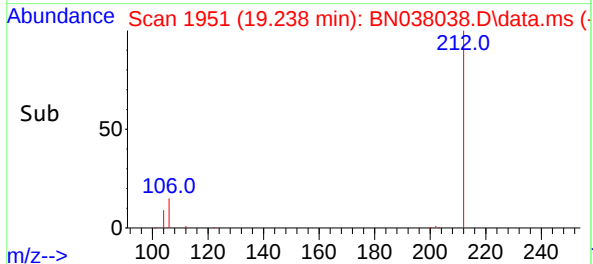
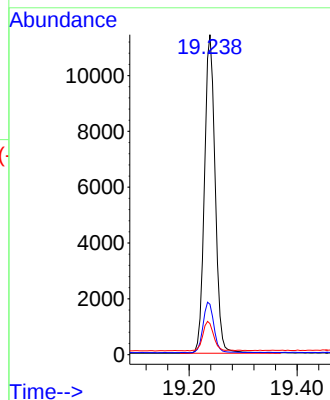
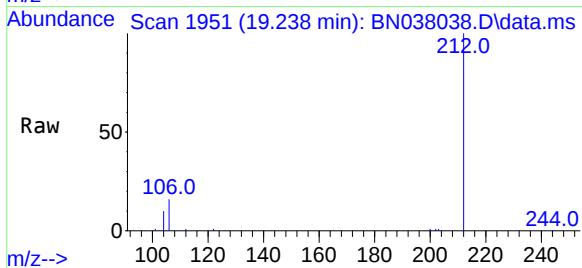




#27
Fluoranthene-d10
Concen: 0.284 ng
RT: 19.238 min Scan# 1951
Delta R.T. -0.014 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

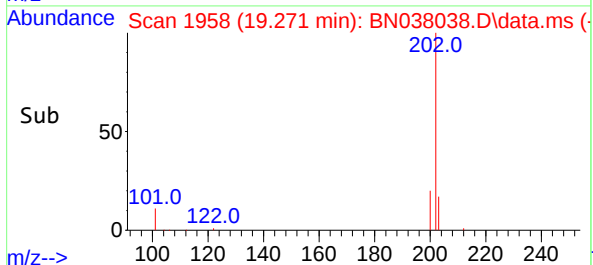
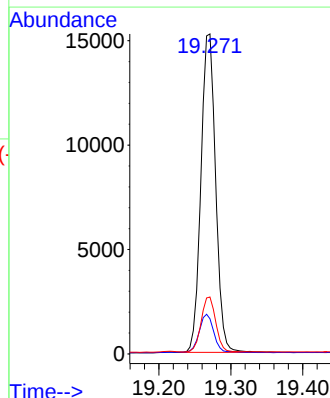
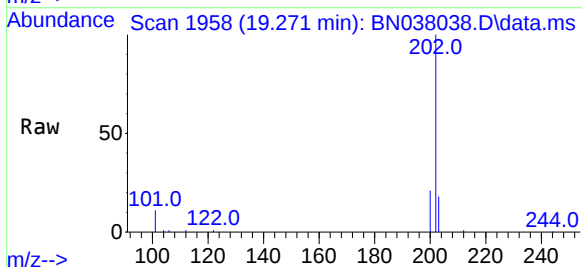
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

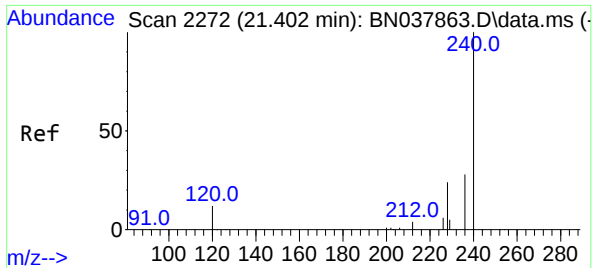
Tgt Ion:212 Resp: 15684
Ion Ratio Lower Upper
212 100
106 16.2 12.6 19.0
104 9.3 7.4 11.0



#28
Fluoranthene
Concen: 0.273 ng
RT: 19.271 min Scan# 1958
Delta R.T. -0.014 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:202 Resp: 21690
Ion Ratio Lower Upper
202 100
101 12.3 9.3 13.9
203 17.1 13.6 20.4

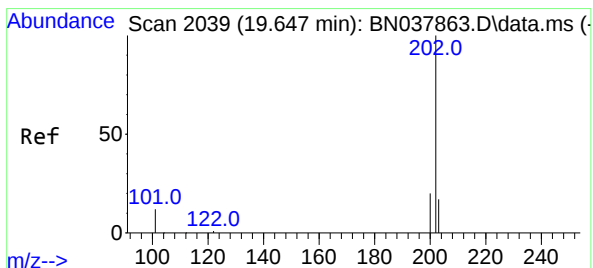
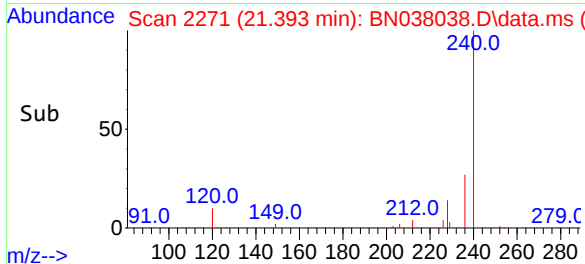
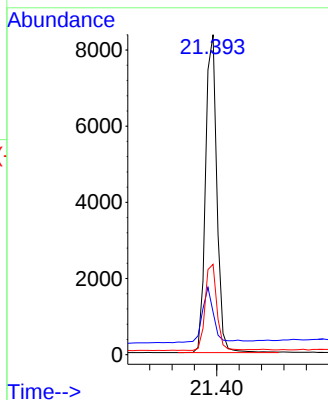
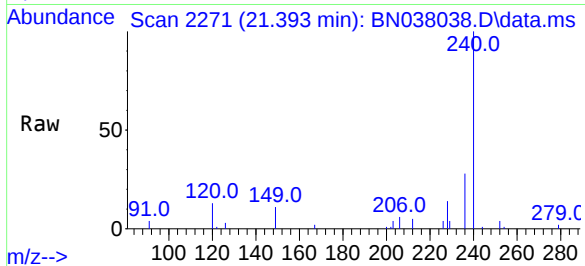




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.393 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

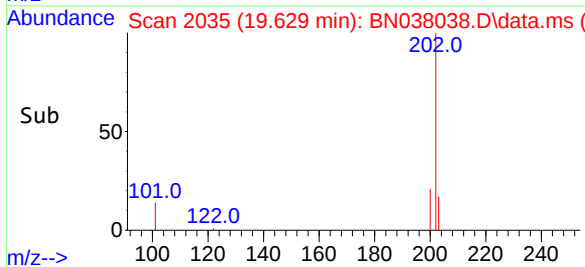
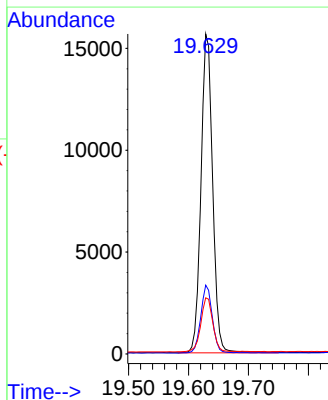
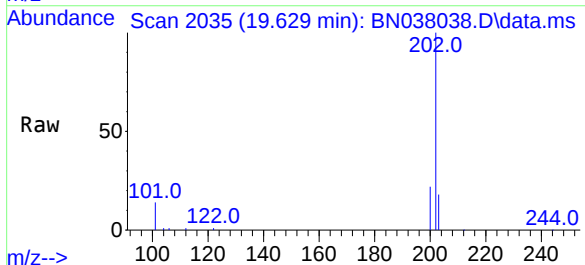
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

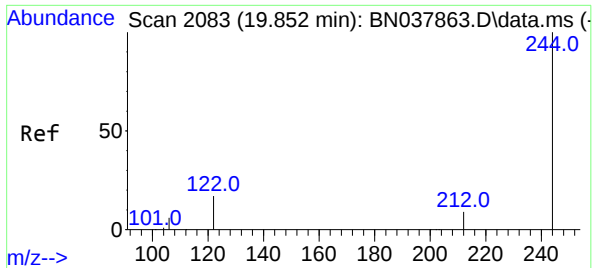
Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.3	11.4	17.2
236	28.2	23.0	34.6



#30
Pyrene
Concen: 0.457 ng
RT: 19.629 min Scan# 2035
Delta R.T. -0.019 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.7	25.1
203	17.6	14.2	21.4

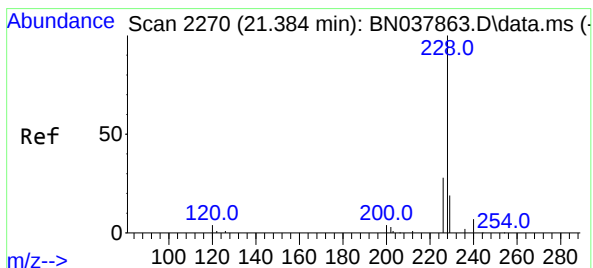
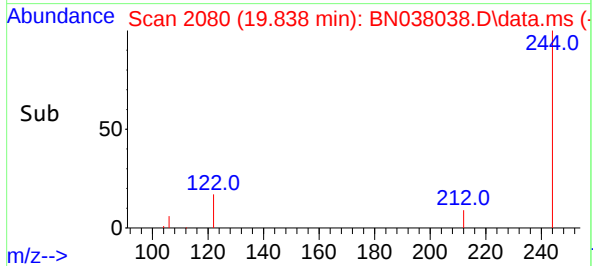
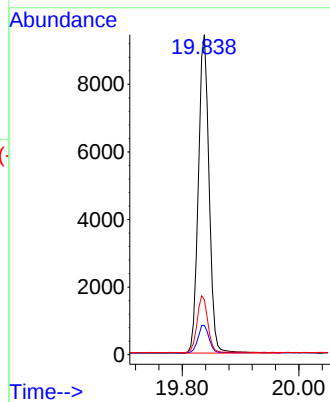
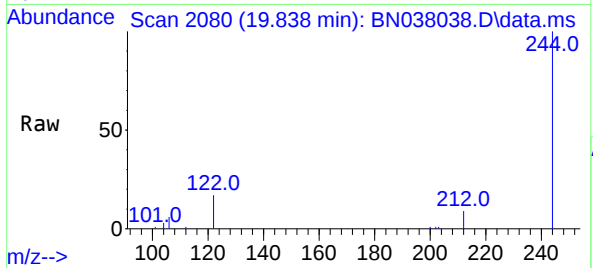




#31
Terphenyl-d14
Concen: 0.513 ng
RT: 19.838 min Scan# 2080
Delta R.T. -0.014 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

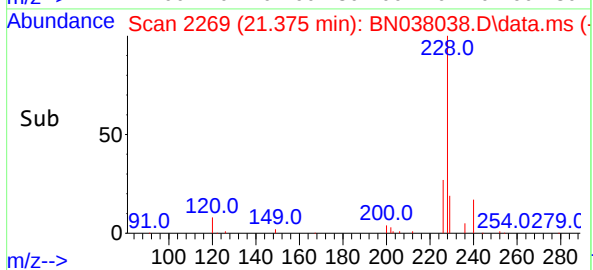
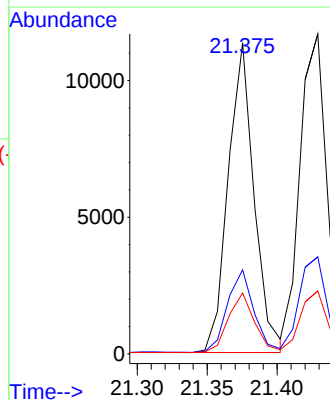
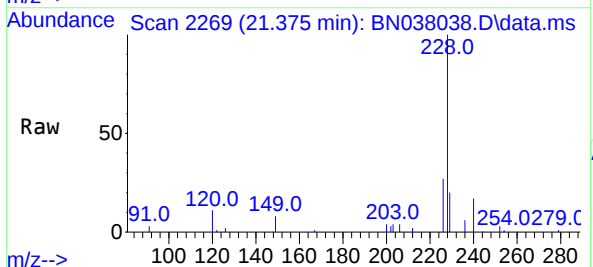
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

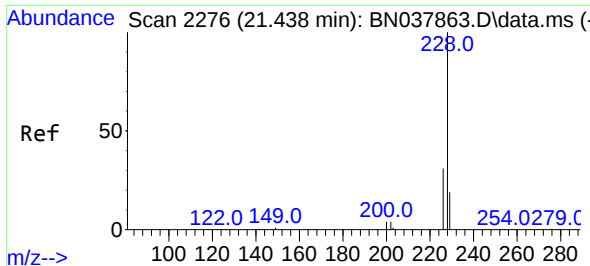
Tgt Ion:244 Resp: 11981
Ion Ratio Lower Upper
244 100
212 9.1 7.6 11.4
122 17.2 13.9 20.9



#32
Benzo(a)anthracene
Concen: 0.357 ng
RT: 21.375 min Scan# 2269
Delta R.T. -0.009 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:228 Resp: 14611
Ion Ratio Lower Upper
228 100
226 27.0 22.6 33.8
229 19.6 15.6 23.4

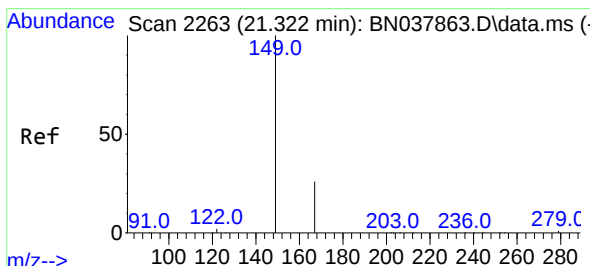
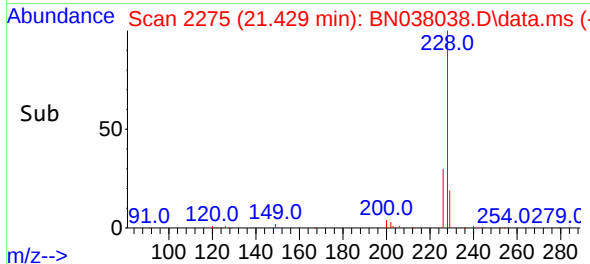
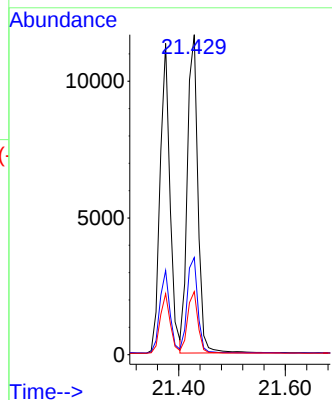
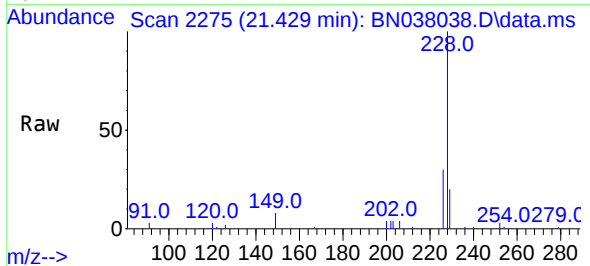




#33
Chrysene
Concen: 0.360 ng
RT: 21.429 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

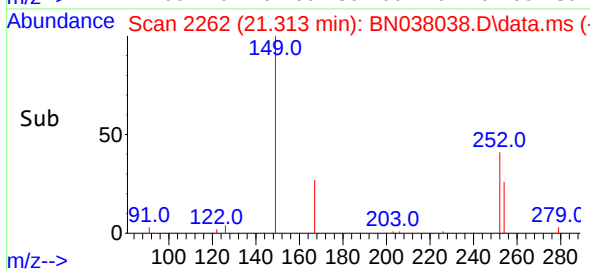
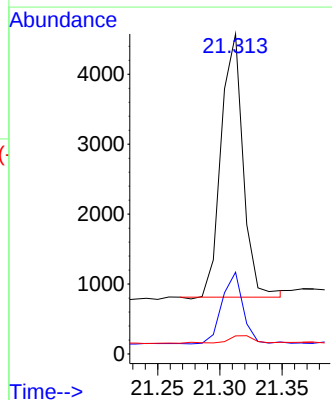
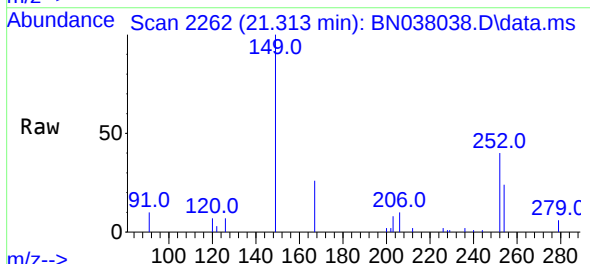
Instrument :
BNA_N
ClientSampleId :
PB169904BSD

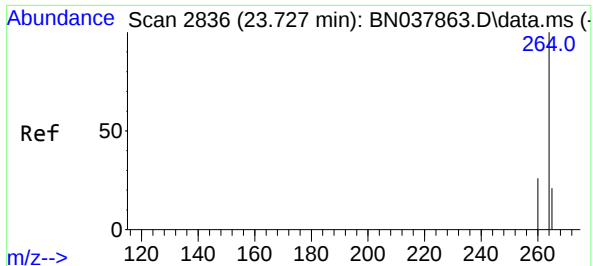
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.6	37.0
229	19.7	15.6	23.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.286 ng
RT: 21.313 min Scan# 2262
Delta R.T. -0.009 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

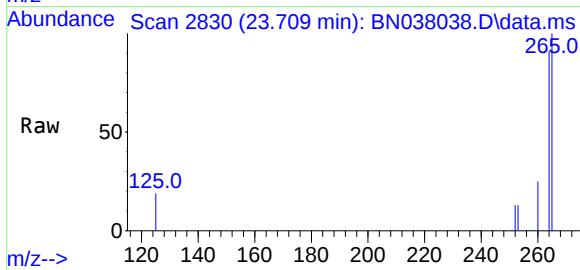
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.4	30.6
279	3.7	2.4	3.6#



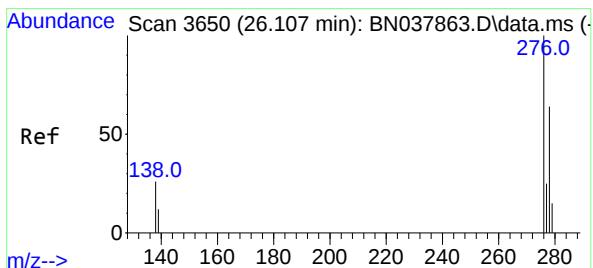
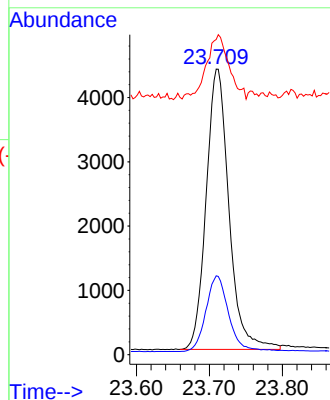


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.709 min Scan# 21
Delta R.T. -0.018 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Instrument :
BNA_N
ClientSampleId :
PB169904BSD

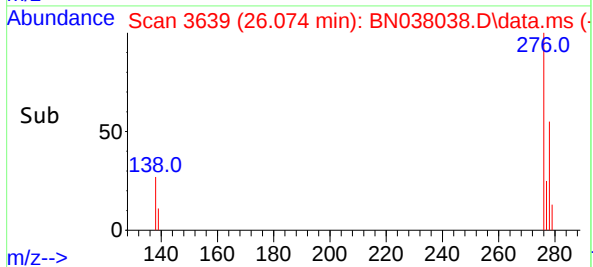
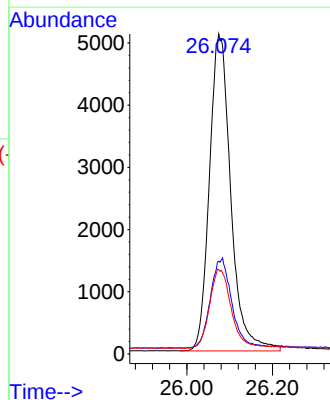
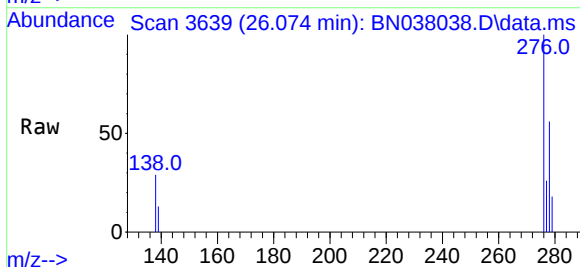


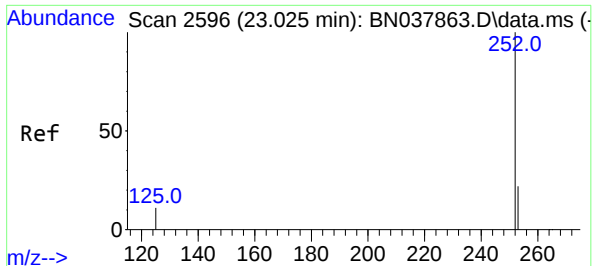
Tgt Ion:264 Resp: 9473
Ion Ratio Lower Upper
264 100
260 27.6 21.5 32.3
265 110.4 53.8 80.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.408 ng
RT: 26.074 min Scan# 3639
Delta R.T. -0.032 min
Lab File: BN038038.D
Acq: 07 Oct 2025 09:11

Tgt Ion:276 Resp: 17647
Ion Ratio Lower Upper
276 100
138 28.3 21.4 32.0
277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.357 ng

RT: 23.008 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038038.D

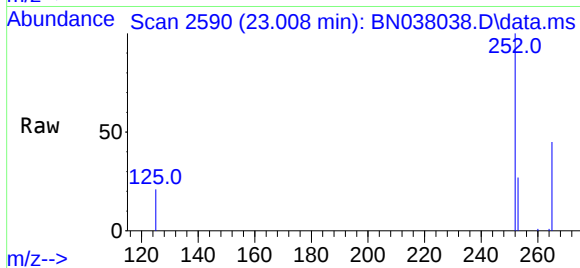
Acq: 07 Oct 2025 09:11

Instrument :

BNA_N

ClientSampleId :

PB169904BSD



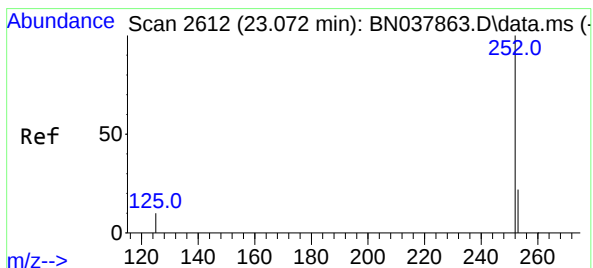
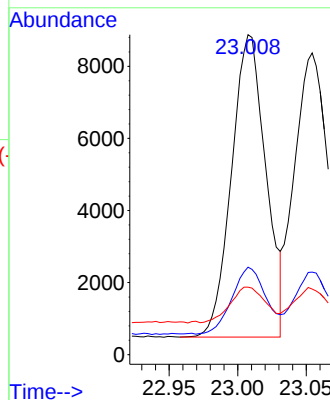
Tgt Ion:252 Resp: 14576

Ion Ratio Lower Upper

252 100

253 27.4 19.4 29.0

125 21.1 13.0 19.4#



#38

Benzo(k)fluoranthene

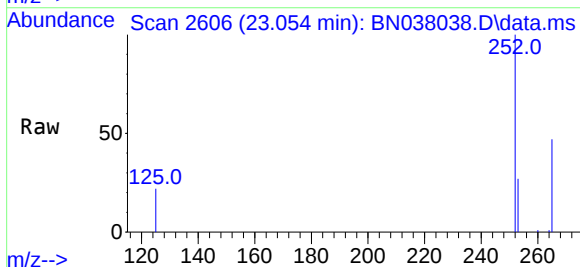
Concen: 0.349 ng

RT: 23.054 min Scan# 2606

Delta R.T. -0.018 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11



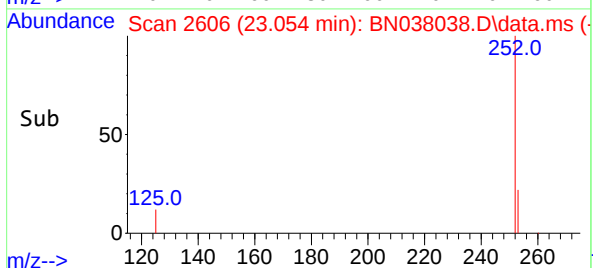
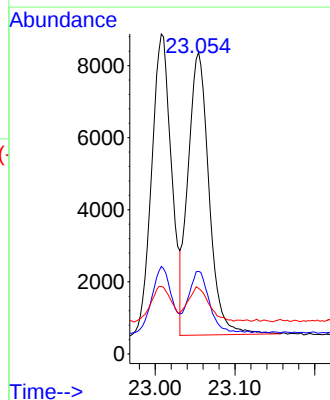
Tgt Ion:252 Resp: 14328

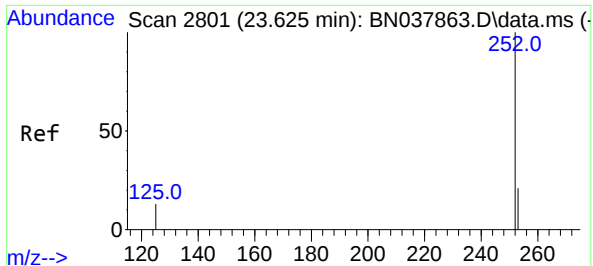
Ion Ratio Lower Upper

252 100

253 27.4 19.5 29.3

125 21.7 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.607 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

Instrument :

BNA_N

ClientSampleId :

PB169904BSD

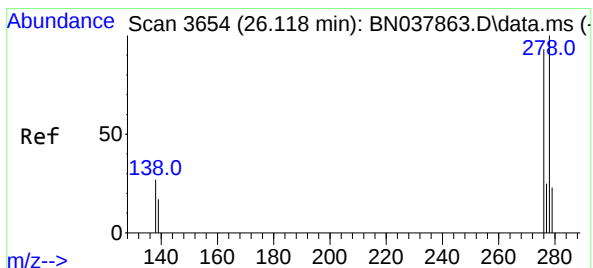
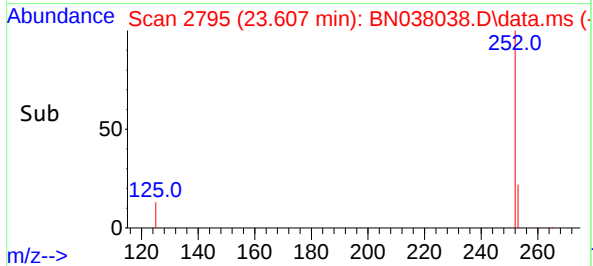
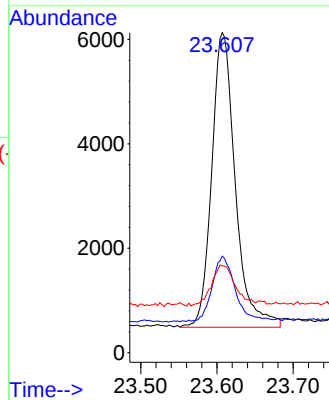
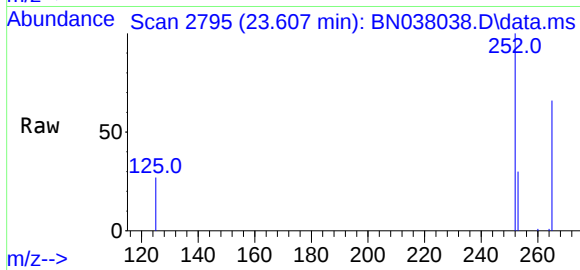
Tgt Ion:252 Resp: 12131

Ion Ratio Lower Upper

252 100

253 30.1 20.6 30.8

125 27.1 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

RT: 26.092 min Scan# 3645

Delta R.T. -0.026 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

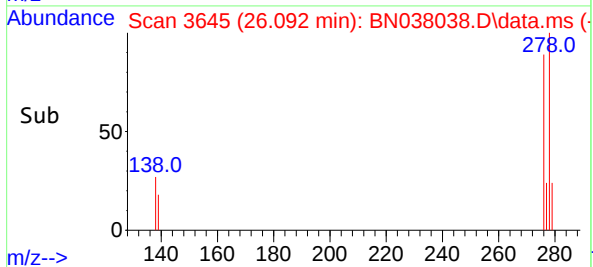
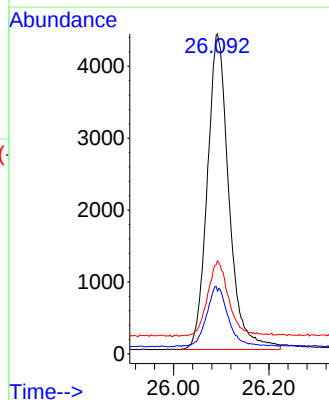
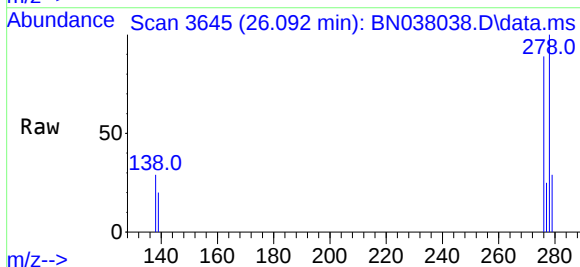
Tgt Ion:278 Resp: 13828

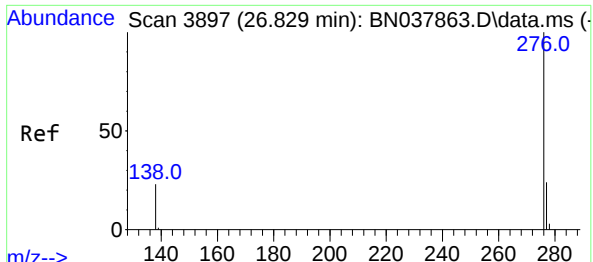
Ion Ratio Lower Upper

278 100

139 19.7 15.4 23.2

279 29.1 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.436 ng

RT: 26.794 min Scan# 3885

Delta R.T. -0.035 min

Lab File: BN038038.D

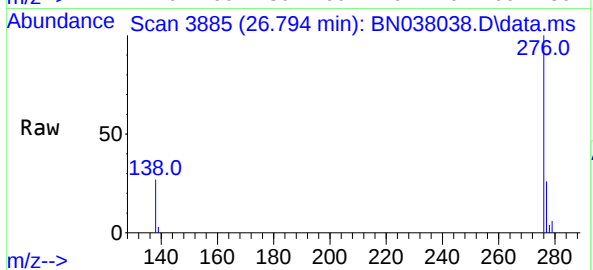
Acq: 07 Oct 2025 09:11

Instrument :

BNA_N

ClientSampleId :

PB169904BSD



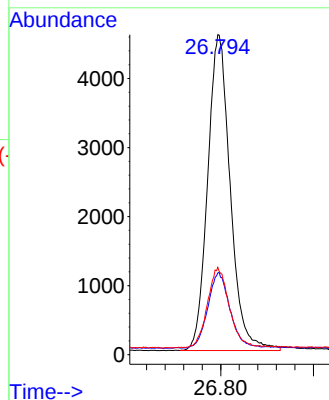
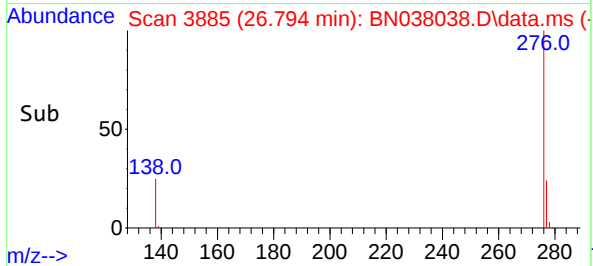
Tgt Ion:276 Resp: 15498

Ion Ratio Lower Upper

276 100

277 25.6 20.2 30.4

138 27.3 19.8 29.8





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

Manual Integration Report

Sequence:

BN092325

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	BN100625	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC0.4	BN038020.D	Benzo(b)fluoranthene	Rahul	10/7/2025 10:19:04 AM	Jagrut	10/7/2025 11:02:42 AM	Peak Integrated by Software
SSTDCCC0.4	BN038022.D	Benzo(b)fluoranthene	Rahul	10/7/2025 10:19:06 AM	Jagrut	10/7/2025 11:02:45 AM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM		
SubDirectory	BN092325	HP Acquire Method	BNA_N	HP Processing Method	bn092325
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	BN037860.D	23 Sep 2025 11:33	RC/JU	Ok
2	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13	RC/JU	Ok
3	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49	RC/JU	Ok
4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	RC/JU	Ok
5	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02	RC/JU	Ok
6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38	RC/JU	Ok
7	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15	RC/JU	Ok
8	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	RC/JU	Ok
9	SSTDICV0.4	BN037868.D	23 Sep 2025 16:28	RC/JU	Ok
10	PB169743BL	BN037869.D	23 Sep 2025 17:42	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN100625

Review By	rahul	Review On	10/7/2025 2:42:38 PM
Supervise By	Jagrut	Supervise On	10/7/2025 5:49:36 PM
SubDirectory	BN100625	HP Acquire Method	BNA_N
		HP Processing Method	bn092325
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
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	BN038003.D	06 Oct 2025 10:27	RC/JU	Ok
2	SSTDCCC0.4	BN038004.D	06 Oct 2025 11:06	RC/JU	Ok
3	PB169903BL	BN038005.D	06 Oct 2025 11:55	RC/JU	Ok
4	Q3194-02	BN038006.D	06 Oct 2025 12:31	RC/JU	Ok
5	Q3194-03MS	BN038007.D	06 Oct 2025 13:44	RC/JU	Ok
6	Q3194-04MSD	BN038008.D	06 Oct 2025 14:20	RC/JU	Ok,M
7	Q3194-01	BN038009.D	06 Oct 2025 14:56	RC/JU	Ok
8	Q3194-05	BN038010.D	06 Oct 2025 15:33	RC/JU	Ok
9	Q3194-06	BN038011.D	06 Oct 2025 16:09	RC/JU	Ok
10	Q3194-07	BN038012.D	06 Oct 2025 16:46	RC/JU	Ok
11	Q3194-08	BN038013.D	06 Oct 2025 17:22	RC/JU	Ok
12	Q3194-09	BN038014.D	06 Oct 2025 17:59	RC/JU	Ok
13	Q3194-10	BN038015.D	06 Oct 2025 18:35	RC/JU	Ok
14	Q3194-11	BN038016.D	06 Oct 2025 19:12	RC/JU	Ok
15	Q3194-12	BN038017.D	06 Oct 2025 19:48	RC/JU	Ok
16	Q3194-13	BN038018.D	06 Oct 2025 20:24	RC/JU	Ok
17	PB169903BS	BN038019.D	06 Oct 2025 21:01	RC/JU	Ok
18	SSTDCCC0.4	BN038020.D	06 Oct 2025 21:37	RC/JU	Ok,M
19	DFTPP	BN038021.D	06 Oct 2025 22:13	RC/JU	Ok
20	SSTDCCC0.4	BN038022.D	06 Oct 2025 23:32	RC/JU	Ok,M
21	PB169904BL	BN038023.D	07 Oct 2025 00:08	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN100625

Review By	rahul	Review On	10/7/2025 2:42:38 PM
Supervise By	Jagrut	Supervise On	10/7/2025 5:49:36 PM
SubDirectory	BN100625	HP Acquire Method	BNA_N
		HP Processing Method	bn092325
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
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	Q3194-14	BN038024.D	07 Oct 2025 00:44	RC/JU	Ok
23	Q3194-15	BN038025.D	07 Oct 2025 01:21	RC/JU	Ok
24	Q3194-16	BN038026.D	07 Oct 2025 01:57	RC/JU	Ok
25	Q3194-17	BN038027.D	07 Oct 2025 02:33	RC/JU	Ok
26	Q3213-02	BN038028.D	07 Oct 2025 03:09	RC/JU	Ok
27	Q3213-03	BN038029.D	07 Oct 2025 03:46	RC/JU	Ok
28	Q3213-05	BN038030.D	07 Oct 2025 04:22	RC/JU	Ok
29	Q3213-06	BN038031.D	07 Oct 2025 04:58	RC/JU	Ok
30	Q3213-08	BN038032.D	07 Oct 2025 05:34	RC/JU	Ok
31	Q3213-10	BN038033.D	07 Oct 2025 06:10	RC/JU	Ok
32	Q3235-01	BN038034.D	07 Oct 2025 06:46	RC/JU	Dilution
33	Q3235-02	BN038035.D	07 Oct 2025 07:22	RC/JU	Ok
34	Q3235-03	BN038036.D	07 Oct 2025 07:58	RC/JU	Ok
35	PB169904BS	BN038037.D	07 Oct 2025 08:35	RC/JU	Ok
36	PB169904BSD	BN038038.D	07 Oct 2025 09:11	RC/JU	Ok
37	SSTDCCC0.4	BN038039.D	07 Oct 2025 09:47	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN092325

Review By	Rahul	Review On	9/24/2025 8:51:58 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:44:29 AM		
SubDirectory	BN092325	HP Acquire Method	BNA_N	HP Processing Method	bn092325

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	BN037860.D	23 Sep 2025 11:33		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037861.D	23 Sep 2025 12:13		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037862.D	23 Sep 2025 12:49		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037863.D	23 Sep 2025 13:25	Compound #20 kept on QR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037864.D	23 Sep 2025 14:02		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037865.D	23 Sep 2025 14:38		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037866.D	23 Sep 2025 15:15		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037867.D	23 Sep 2025 15:51	Compound#14,24 removed from 5.0 ppm	RC/JU	Ok
9	SSTDICV0.4	ICVBN092325	BN037868.D	23 Sep 2025 16:28		RC/JU	Ok
10	PB169743BL	PB169743BL	BN037869.D	23 Sep 2025 17:42	END CCC missing, Analyzed for Contamination check.	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN100625

Review By	rahul	Review On	10/7/2025 2:42:38 PM		
Supervise By	Jagrut	Supervise On	10/7/2025 5:49:36 PM		
SubDirectory	BN100625	HP Acquire Method	BNA_N	HP Processing Method	bn092325

STD. NAME	STD REF.#
Tune/Reschk	SP6875
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	BN038003.D	06 Oct 2025 10:27		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038004.D	06 Oct 2025 11:06		RC/JU	Ok
3	PB169903BL	PB169903BL	BN038005.D	06 Oct 2025 11:55		RC/JU	Ok
4	Q3194-02	RW11-MW01S-202509	BN038006.D	06 Oct 2025 12:31		RC/JU	Ok
5	Q3194-03MS	RW11-MW01S-202509	BN038007.D	06 Oct 2025 13:44		RC/JU	Ok
6	Q3194-04MSD	RW11-MW01S-202509	BN038008.D	06 Oct 2025 14:20		RC/JU	Ok,M
7	Q3194-01	TT189D1-20250922	BN038009.D	06 Oct 2025 14:56		RC/JU	Ok
8	Q3194-05	TT150S1-20250922	BN038010.D	06 Oct 2025 15:33		RC/JU	Ok
9	Q3194-06	RW8-MW01D2-202509	BN038011.D	06 Oct 2025 16:09		RC/JU	Ok
10	Q3194-07	RW8-MW01D3-202509	BN038012.D	06 Oct 2025 16:46		RC/JU	Ok
11	Q3194-08	TT188S1-20250922	BN038013.D	06 Oct 2025 17:22		RC/JU	Ok
12	Q3194-09	TT192D2-20250922	BN038014.D	06 Oct 2025 17:59		RC/JU	Ok
13	Q3194-10	TT192D1-20250922	BN038015.D	06 Oct 2025 18:35		RC/JU	Ok
14	Q3194-11	DUP10-20250922	BN038016.D	06 Oct 2025 19:12		RC/JU	Ok
15	Q3194-12	RW11-MW01I-2025092	BN038017.D	06 Oct 2025 19:48		RC/JU	Ok
16	Q3194-13	TT163S1-20250924	BN038018.D	06 Oct 2025 20:24		RC/JU	Ok
17	PB169903BS	PB169903BS	BN038019.D	06 Oct 2025 21:01		RC/JU	Ok
18	SSTDCCC0.4	SSTDCCC0.4EC	BN038020.D	06 Oct 2025 21:37		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN100625

Review By	rahul	Review On	10/7/2025 2:42:38 PM		
Supervise By	Jagrut	Supervise On	10/7/2025 5:49:36 PM		
SubDirectory	BN100625	HP Acquire Method	BNA_N	HP Processing Method	bn092325
STD. NAME		STD REF.#			
Tune/Reschk		SP6875			
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					

19	DFTPP	DFTPP	BN038021.D	06 Oct 2025 22:13		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN038022.D	06 Oct 2025 23:32		RC/JU	Ok,M
21	PB169904BL	PB169904BL	BN038023.D	07 Oct 2025 00:08		RC/JU	Ok
22	Q3194-14	RE139D1-20250924	BN038024.D	07 Oct 2025 00:44		RC/JU	Ok
23	Q3194-15	EB05-20250924	BN038025.D	07 Oct 2025 01:21		RC/JU	Ok
24	Q3194-16	EB06-20250924	BN038026.D	07 Oct 2025 01:57		RC/JU	Ok
25	Q3194-17	FB01-20250924	BN038027.D	07 Oct 2025 02:33		RC/JU	Ok
26	Q3213-02	VPB184-HYD-20250924	BN038028.D	07 Oct 2025 03:09	Surrogate Fail	RC/JU	Ok
27	Q3213-03	BP-VPB-184-GW-340-3	BN038029.D	07 Oct 2025 03:46		RC/JU	Ok
28	Q3213-05	BP-VPB-184-GW-380-3	BN038030.D	07 Oct 2025 04:22		RC/JU	Ok
29	Q3213-06	BP-VPB-184-DUP-20250924	BN038031.D	07 Oct 2025 04:58		RC/JU	Ok
30	Q3213-08	BP-VPB-184-GW-420-4	BN038032.D	07 Oct 2025 05:34		RC/JU	Ok
31	Q3213-10	BP-VPB-184-EB-20250924	BN038033.D	07 Oct 2025 06:10		RC/JU	Ok
32	Q3235-01	RW5-SP100-20250926	BN038034.D	07 Oct 2025 06:46	Need 2X Dilution	RC/JU	Dilution
33	Q3235-02	RW5-SP201-20250926	BN038035.D	07 Oct 2025 07:22		RC/JU	Ok
34	Q3235-03	RW5-SP303-20250926	BN038036.D	07 Oct 2025 07:58		RC/JU	Ok
35	PB169904BS	PB169904BS	BN038037.D	07 Oct 2025 08:35		RC/JU	Ok
36	PB169904BSD	PB169904BSD	BN038038.D	07 Oct 2025 09:11		RC/JU	Ok
37	SSTDCCC0.4	SSTDCCC0.4EC	BN038039.D	07 Oct 2025 09:47		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN100625

Review By	rahul	Review On	10/7/2025 2:42:38 PM		
Supervise By	Jagrut	Supervise On	10/7/2025 5:49:36 PM		
SubDirectory	BN100625	HP Acquire Method	BNA_N	HP Processing Method	bn092325
STD. NAME	STD REF.#				
Tune/Reschk	SP6875				
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					

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	09/26/2025
Matrix :	Water	Extraction Start Time :	13:15
Weigh By:	N/A	Extraction By:	RJ
Balance check:	N/A	Filter By:	RJ
Balance ID:	N/A	Extraction End Date :	09/26/2025
pH Strip Lot#:	E3953	Extraction End Time :	18:15
		Concentration By:	EH
		Supervisor By :	ritesh
Extraction Method:	☒ Separatory Funnel ☐ Continous 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	SP6870
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	E3973
Baked Na2SO4	N/A	EP2646
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
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:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

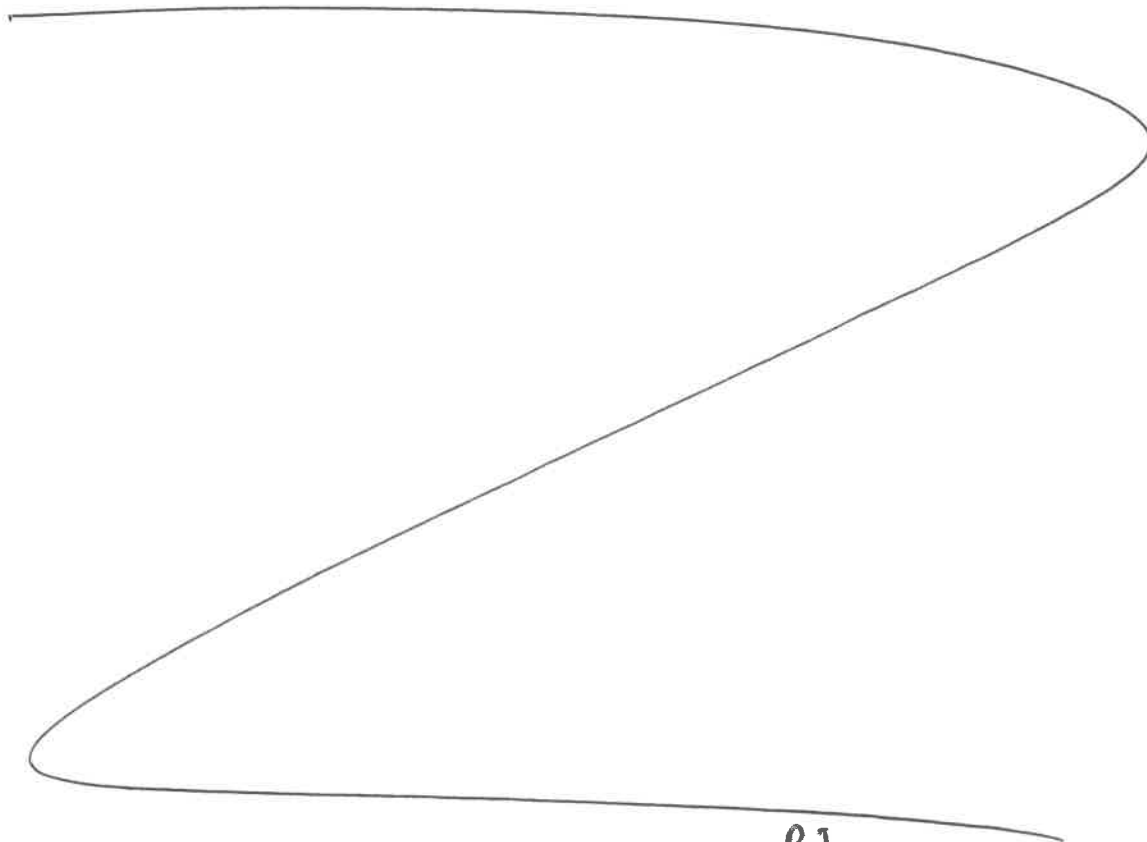
KD Bath ID:	WATER BATH-1,2	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/26/25	RJ (EXT-1026)	RC/SVOC
18:20	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 09/26/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169904BL	SBLK904	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			SEP-1
PB169904BS	SLCS904	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			2
PB169904BS D	SLCSD904	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1			3
Q3213-02	VPB184-HYD-20250924	SVOC-SIMGrou p1	1000	6	ritesh	Evelyn	1	C		4
Q3213-03	BP-VPB-184-GW-340-342	SVOC-SIMGrou p1	960	6	ritesh	Evelyn	1	C		5
Q3213-05	BP-VPB-184-GW-380-382	SVOC-SIMGrou p1	590	6	ritesh	Evelyn	1	C		6
Q3213-06	BP-VPB-184-DUP-202509 23	SVOC-SIMGrou p1	510	6	ritesh	Evelyn	1	C		7
Q3213-08	BP-VPB-184-GW-420-422	SVOC-SIMGrou p1	950	6	ritesh	Evelyn	1	C		8
Q3213-10	BP-VPB-184-EB-2025092 3	SVOC-SIMGrou p1	730	6	ritesh	Evelyn	1	C		9



RJ
9/26

15:15
4404

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3213 WorkList ID : 192164 Department : Extraction Date : 09-26-2025 08:50:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3213-02	VPB184-HYD-20250924	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A12	09/24/2025	8270-Modified
Q3213-03	BP-VPB-184-GW-340-342	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A12	09/23/2025	8270-Modified
Q3213-05	BP-VPB-184-GW-380-382	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A12	09/23/2025	8270-Modified
Q3213-06	BP-VPB-184-DUP-20250923	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A12	09/23/2025	8270-Modified
Q3213-08	BP-VPB-184-GW-420-422	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A12	09/24/2025	8270-Modified
Q3213-10	BP-VPB-184-EB-20250923	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	A12	09/23/2025	8270-Modified

Date/Time 9/26/25 13:10
Raw Sample Received by: BS C-FA-1celb)
Raw Sample Relinquished by: QJ SN

Date/Time 9/26/25 13:40
Raw Sample Received by: QJ SN
Raw Sample Relinquished by: BS C-FA-1celb)

Prep Standard - Chemical Standard Summary

Order ID : Q3213

Test : SVOC-SIMGroup1

Prepbatch ID : PB169904,

Sequence ID/Qc Batch ID: BN100625,

Standard ID :

EP2609,EP2610,EP2646,SP6830,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,SP6870,SP6875,

Chemical ID :

1ul/100ul

sample,E3657,E3875,E3932,E3942,E3943,E3965,E3973,M6157,S10105,S11073,S11496,S11652,S11807,S11828,S12115,S12197,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<u>FROM</u>	1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<u>FROM</u>	1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 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>
3923	Baked Sodium Sulfate	EP2646	09/26/2025	01/28/2026	Evelyn Huang	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 09/26/2025
<u>FROM</u> 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>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli 06/19/2025
<u>FROM</u>	0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml							



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

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

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



<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 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								
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 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								
FROM								



<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 08/05/2025

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

<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	SP6870	09/16/2025	12/09/2025	Jagrut Upadhyay	None	None	Rahul Chavli 09/16/2025

FROM 0.00400ml of S12197 + 0.00800ml of S12220 + 0.02000ml of S11828 + 99.96800ml of E3965 = Final Quantity: 100.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6875	09/30/2025	03/30/2026	Rahul Chavli	None	None	Jagrut Upadhyay 09/30/2025
FROM 1.00000ml of S12577 + 19.00000ml of E3973 = Final Quantity: 20.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	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-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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3965

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	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	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	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]

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

CHEMICAL RECEIPT LOG BOOK

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 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
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:

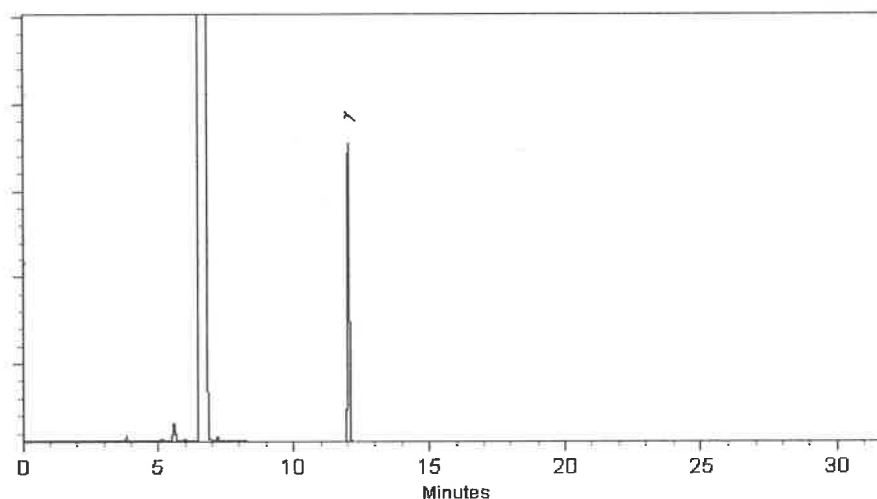
200°C

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

 **avantors™**



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 on 8/20/25

E3965

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



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.

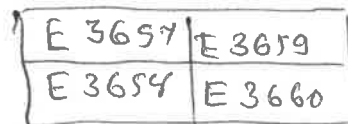
This document has been electronically produced and is valid without a signature.

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

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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

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

Avantor Performance Materials LLC

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 HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

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

Avantor Performance Materials LLC

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 2411262013

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
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Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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: _____

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:

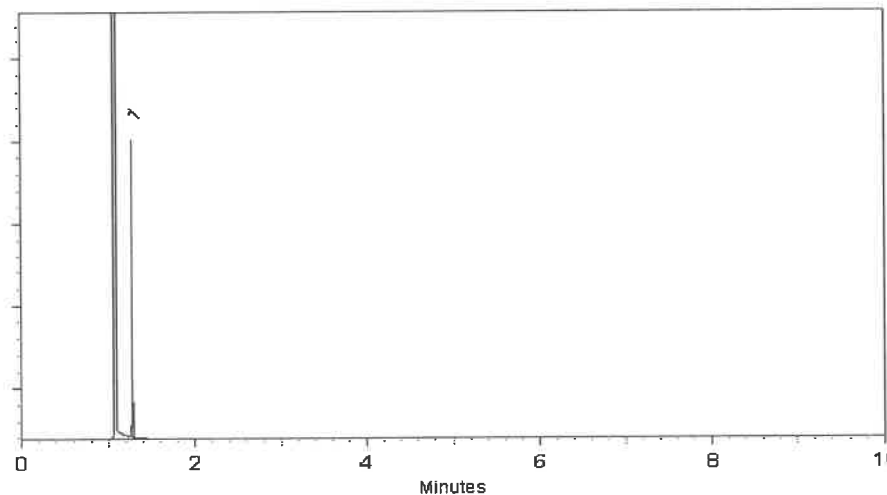
FID

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

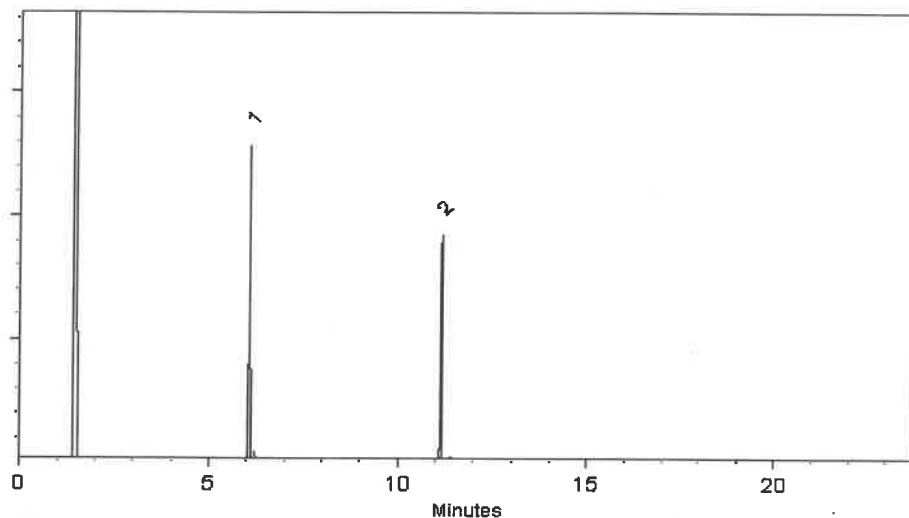
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

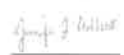


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Santa Rosa, CA 95403

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by TUV USA to ISO 9001:2015

Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-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

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/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

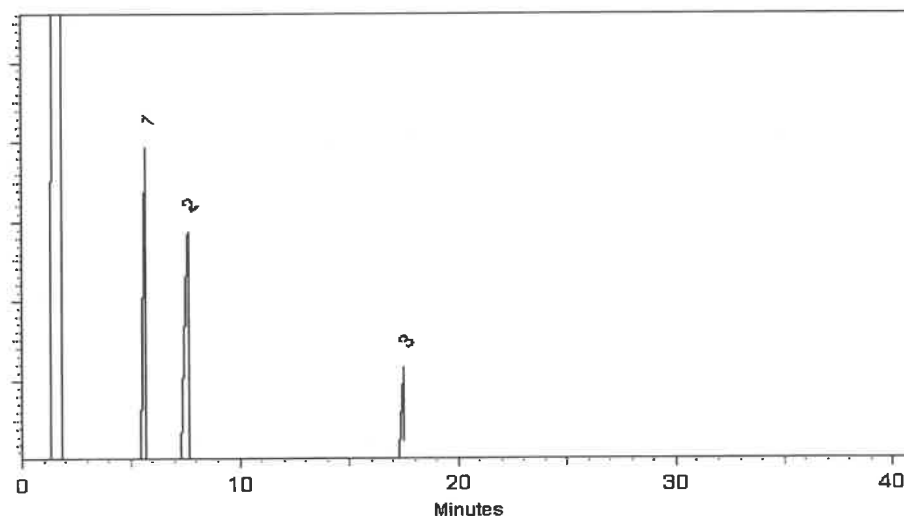
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. 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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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

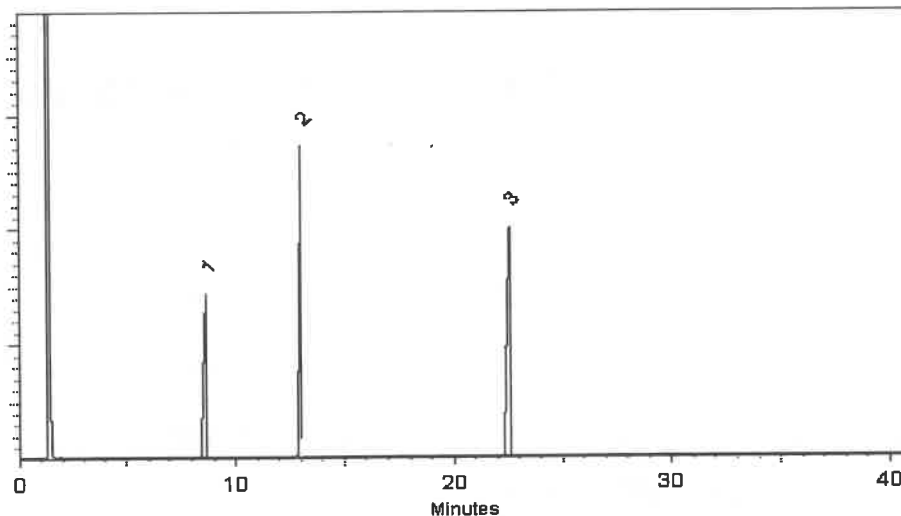
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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by TUV USA to ISO 9001:2015

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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

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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gravimetric



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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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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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. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

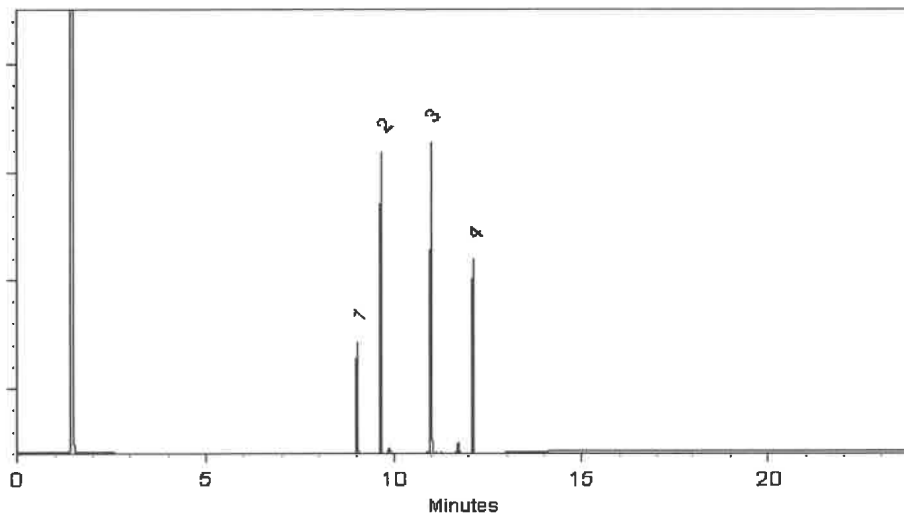
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

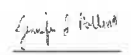


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674
AC
10/1/24



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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
12/17/24

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	$\leq -10^{\circ}\text{C}$	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 $\pm$ 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 $\pm$ 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 $\pm$ 5.82

513057
↓
513061 } AC
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
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

Q 3213 & 23214

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net				Chemtech Project Number:																																															
						COC Number:																																															
CLIENT INFORMATION				PROJECT INFORMATION				BILLING INFORMATION																																													
COMPANY: Tetra Tech				PROJECT NAME: NWIRP Bethpage				BILL TO: SEE CONTRACT					PO#																																								
ADDRESS: 4433 Corporation Lane Suite 300				PROJECT #: 112G08005-WE13 LOCATION: VPB-184				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: 2 & 10 DAYS* HARD COPY: 2 & 10 DAYS* EDD: 2 & 10 DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS				☐ RESULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">VOC(SW846-4260B)</td> <td colspan="2" style="text-align: center;">1,4 Dioxane (8270 SIM)</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> <td style="text-align: center;">6</td> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td style="text-align: center;">9</td> <td colspan="9"></td> </tr> </table>										VOC(SW846-4260B)		1,4 Dioxane (8270 SIM)																1	2	3	4	5	6	7	8	9									
VOC(SW846-4260B)		1,4 Dioxane (8270 SIM)																																																			
1	2	3	4	5	6	7	8	9																																													
								PRESERVATIVES										COMMENTS																																			
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX		SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles											<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other																																
						COMP		GRAB		DATE		TIME				A																																					
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1.		BP-VPB-184-TB-20250923		QA		X		9/19/25		9:00		2		2																				Trip Blank																			
2.		VPB184-HYD-20250924		AQ		X		9/24/25		15:45		5		2		1		2																Hydrant Sample																			
3.		BP-VPB-184-GW-340-342		AQ		X		9/23/25		9:58		3		2		1																																					
4.		BP-VPB-184-GW-360-362		AQ		X		9/23/25		12:10		3		3																																							
5.		BP-VPB-184-GW-380-382		AQ		X		9/23/25		14:16		3		2		1																																					
6.		BP-VPB-184-DUP-20250923		QA		X		9/23/25		12:00		1				1																		8270 SIM Duplicate																			
7.		BP-VPB-184-GW-400-402		AQ		X		9/24/25		9:40		3		3																																							
8.		BP-VPB-184-GW-420-422		AQ		X		9/24/25		11:33		3		2		1																																					
9.		BP-VPB-184-GW-440-442		AQ		X		9/24/25		14:25		3		3																																							
10.		BP-VPB-184-EB-20250923		QA		X		9/23/25		8:45		3		2		1																		Equipment Blank																			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																																																					
RELINQUISHED BY SAMPLER				DATE/TIME				RECEIVED BY																																													
1.				9/25/25 1330								1400																																									
RELINQUISHED BY				DATE/TIME				RECEIVED BY																																													
2.								2.																																													
RELINQUISHED BY				DATE/TIME				RECEIVED FOR LAB BY																																													
3.				9-25-25 1730				3.																																													
										Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp <u>2-1°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?: _____ Comments: 5 Day TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list 10-DAY TAT - For 1,4 Dioxane (8270 SIM)																																											
										SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight																																											
										Shipment Complete ☐ YES ☐ NO																																											
Page 1 of 1																																																					
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																																																					

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3213 TETR06

Order Date : 9/25/2025 2:33:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : NWIRP Bethpage 112G080

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 9/25/2025 5:30:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3213-01	BP-VPB-184-TB-20250923	Water	09/23/2025	09:00	VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-02	VPB184-HYD-20250924	Water	09/24/2025	15:45	VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-03	BP-VPB-184-GW-340-342	Water	09/23/2025	09:58	VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-04	BP-VPB-184-GW-360-362	Water	09/23/2025	12:10	VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-05	BP-VPB-184-GW-380-382	Water	09/23/2025	14:16	VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-07	BP-VPB-184-GW-400-402	Water	09/24/2025	09:40	VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-08	BP-VPB-184-GW-420-422	Water	09/24/2025	11:33	VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-09	BP-VPB-184-GW-440-442	Water	09/24/2025	14:25					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3213 TETR06

Order Date : 9/25/2025 2:33:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : NWIRP Bethpage 112G080

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 9/25/2025 5:30:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260-Low		5 Bus. Days
Q3213-10	BP-VPB-184-EB-20250923	Water	09/23/2025	08:45					
					VOC-TCLVOA-10		8260-Low		5 Bus. Days

Relinquished By : 

Date / Time : 9/26/25 10:45

Received By : 

Date / Time : 09/26/25

11:21

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
 Data File : BN038022.D
 Acq On : 06 Oct 2025 23:32
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Oct 07 01:41:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 24 11:00:01 2025
 Response via : Initial Calibration

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

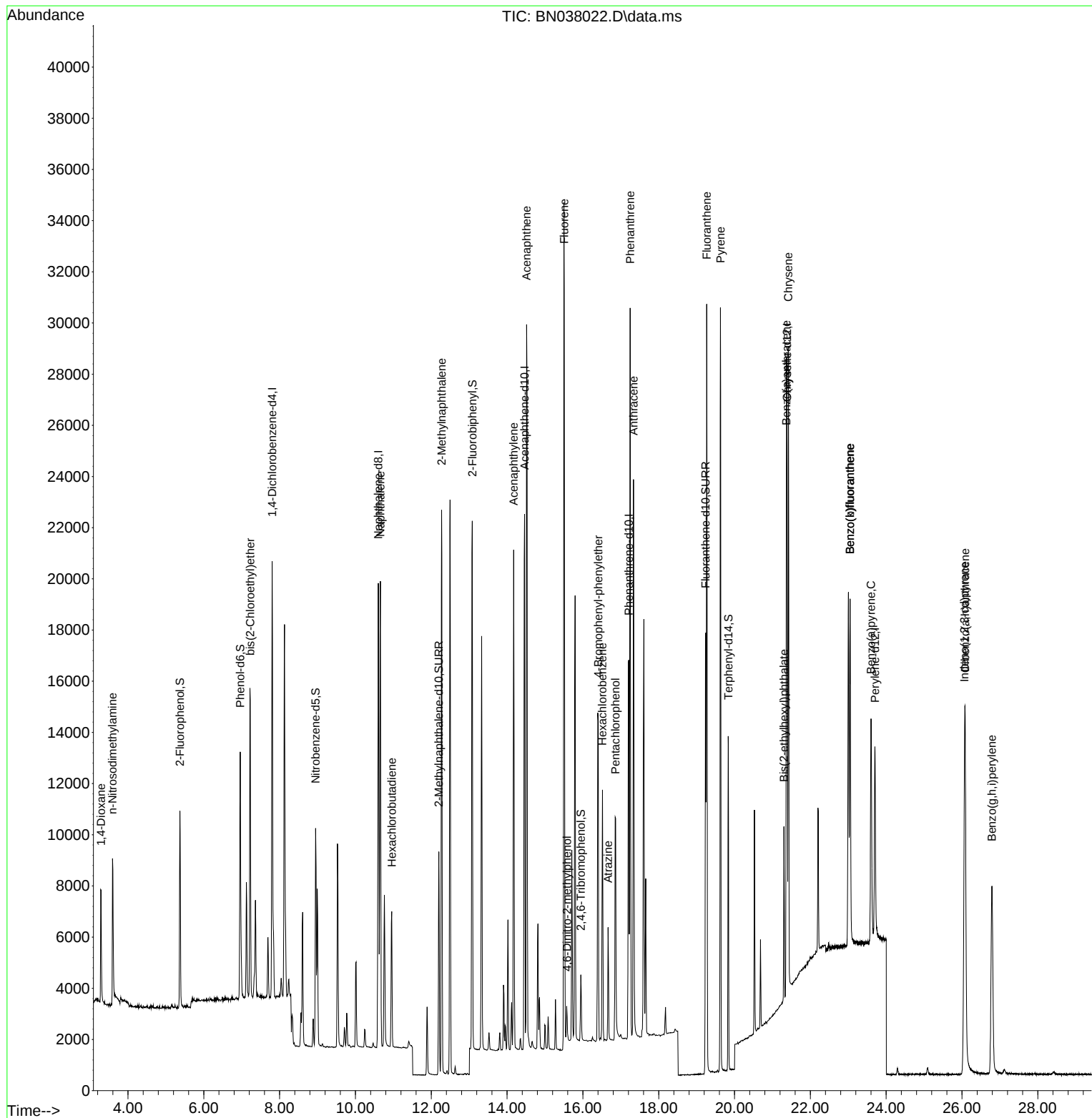
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	8262	0.400	ng	-0.02
7) Naphthalene-d8	10.605	136	22968	0.400	ng	-0.02
13) Acenaphthene-d10	14.462	164	12134	0.400	ng	-0.01
19) Phenanthrene-d10	17.210	188	22733	0.400	ng	-0.01
29) Chrysene-d12	21.384	240	13562	0.400	ng	#-0.02
35) Perylene-d12	23.703	264	10530	0.400	ng	#-0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.370	112	6312	0.335	ng	-0.01
5) Phenol-d6	6.959	99	8816	0.356	ng	-0.01
8) Nitrobenzene-d5	8.950	82	6668	0.381	ng	-0.02
11) 2-Methylnaphthalene-d10	12.202	152	11565	0.362	ng	-0.02
14) 2,4,6-Tribromophenol	15.944	330	1512	0.329	ng	-0.02
15) 2-Fluorobiphenyl	13.083	172	19165	0.386	ng	-0.01
27) Fluoranthene-d10	19.238	212	18490	0.323	ng	-0.01
31) Terphenyl-d14	19.838	244	12280	0.455	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.290	88	3071	0.366	ng	98
3) n-Nitrosodimethylamine	3.593	42	3991	0.358	ng	# 89
6) bis(2-Chloroethyl)ether	7.226	93	8808	0.383	ng	98
9) Naphthalene	10.658	128	24498	0.387	ng	99
10) Hexachlorobutadiene	10.957	225	4360	0.404	ng	# 99
12) 2-Methylnaphthalene	12.273	142	15485	0.375	ng	98
16) Acenaphthylene	14.174	152	21062	0.382	ng	100
17) Acenaphthene	14.516	154	14495	0.369	ng	98
18) Fluorene	15.510	166	16302	0.343	ng	99
20) 4,6-Dinitro-2-methylph...	15.584	198	897	0.375	ng	# 88
21) 4-Bromophenyl-phenylether	16.404	248	5704	0.385	ng	# 87
22) Hexachlorobenzene	16.515	284	7267	0.405	ng	98
23) Atrazine	16.664	200	3424	0.304	ng	# 91
24) Pentachlorophenol	16.863	266	5132	0.833	ng	97
25) Phenanthrene	17.248	178	28024	0.375	ng	100
26) Anthracene	17.335	178	23199	0.357	ng	100
28) Fluoranthene	19.266	202	27243	0.331	ng	99
30) Pyrene	19.629	202	26066	0.487	ng	100
32) Benzo(a)anthracene	21.366	228	17879	0.377	ng	100
33) Chrysene	21.420	228	20217	0.394	ng	100
34) Bis(2-ethylhexyl)phtha...	21.304	149	5945	0.317	ng	100
36) Indeno(1,2,3-cd)pyrene	26.069	276	19936	0.414	ng	97
37) Benzo(b)fluoranthene	23.048	252	17538	0.386	ng	95
38) Benzo(k)fluoranthene	23.048	252	17538	0.384	ng	96
39) Benzo(a)pyrene	23.601	252	13760	0.383	ng	# 89
40) Dibenzo(a,h)anthracene	26.083	278	15307	0.407	ng	97
41) Benzo(g,h,i)perylene	26.791	276	16776	0.425	ng	98

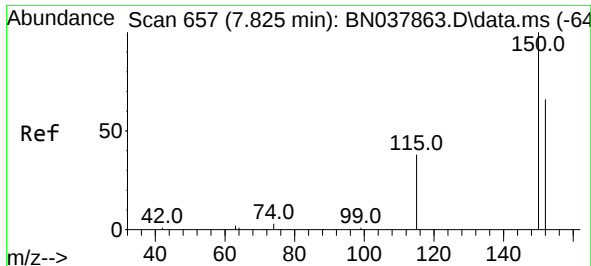
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100625\
Data File : BN038022.D
Acq On : 06 Oct 2025 23:32
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Oct 07 01:41:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 11:00:01 2025
Response via : Initial Calibration

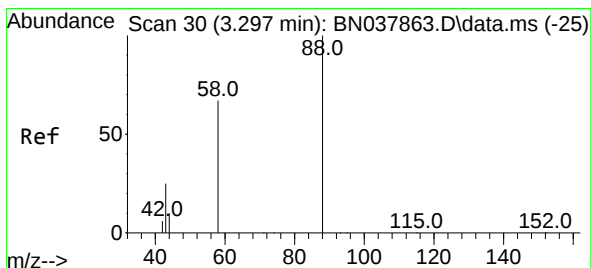
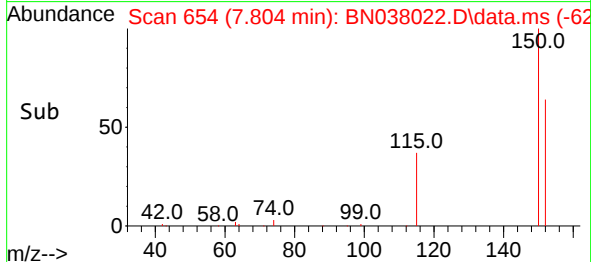
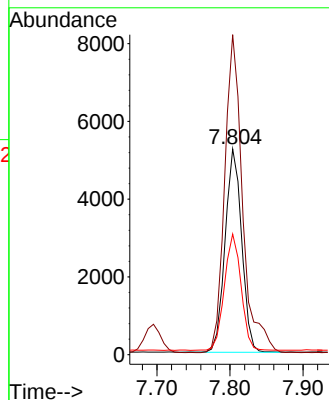
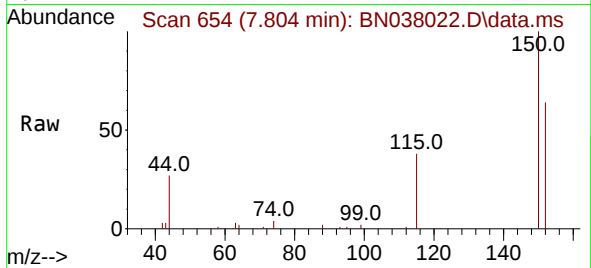




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.804 min Scan# 61
 Delta R.T. -0.021 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

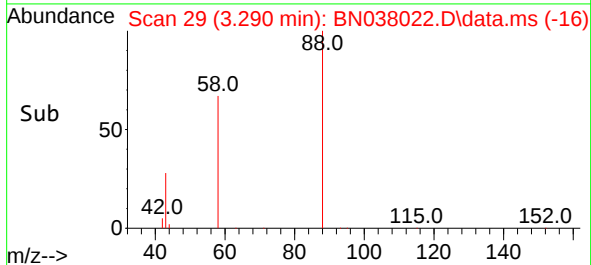
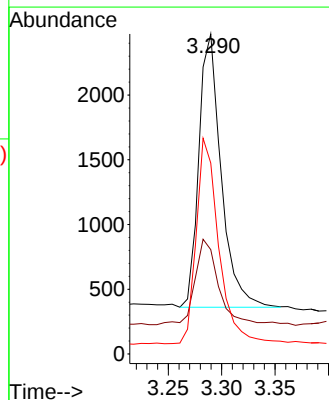
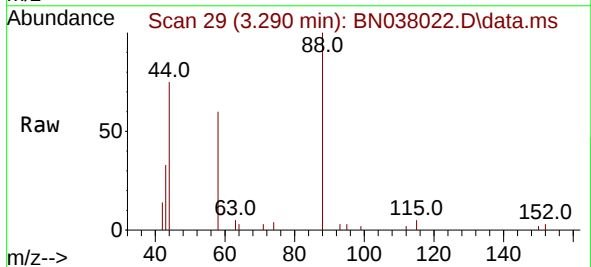
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

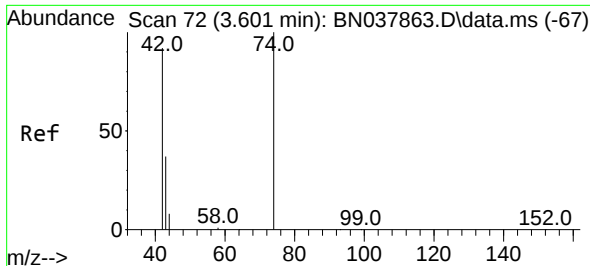
Tgt Ion:152 Resp: 8262
 Ion Ratio Lower Upper
 152 100
 150 155.5 121.0 181.4
 115 58.7 47.4 71.0



#2
 1,4-Dioxane
 Concen: 0.366 ng
 RT: 3.290 min Scan# 29
 Delta R.T. -0.007 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

Tgt Ion: 88 Resp: 3071
 Ion Ratio Lower Upper
 88 100
 43 33.2 26.6 39.8
 58 76.2 58.9 88.3

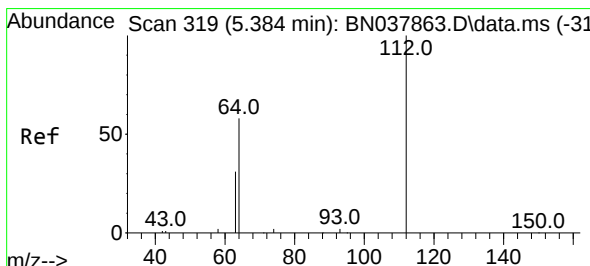
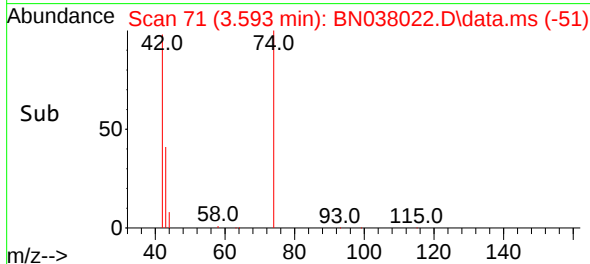
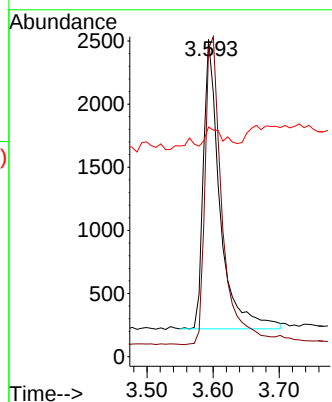
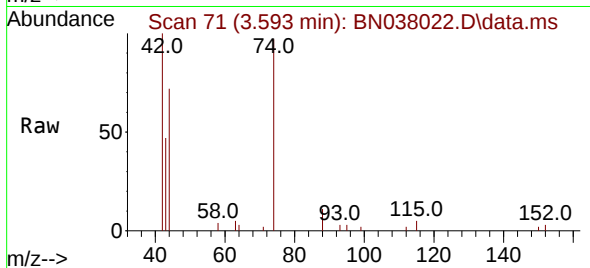




#3
 n-Nitrosodimethylamine
 Concen: 0.358 ng
 RT: 3.593 min Scan# 71
 Delta R.T. -0.007 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

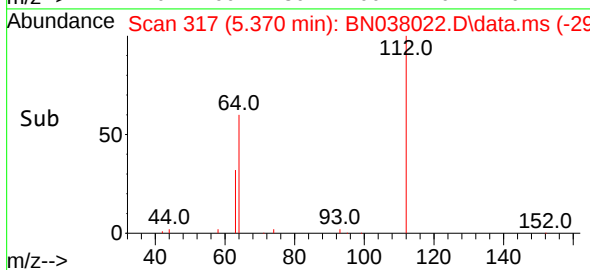
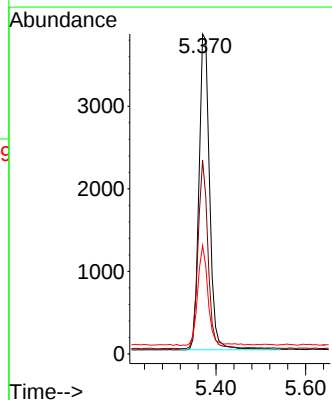
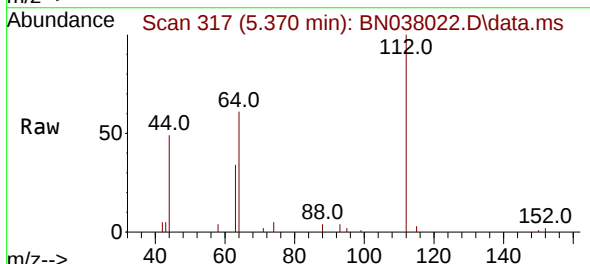
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

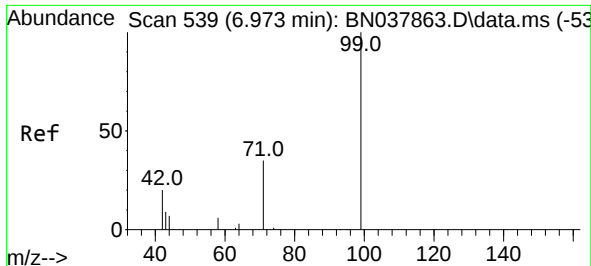
Tgt Ion: 42 Resp: 3991
 Ion Ratio Lower Upper
 42 100
 74 112.4 93.4 140.0
 44 6.7 22.2 33.4#



#4
 2-Fluorophenol
 Concen: 0.335 ng
 RT: 5.370 min Scan# 317
 Delta R.T. -0.015 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

Tgt Ion: 112 Resp: 6312
 Ion Ratio Lower Upper
 112 100
 64 55.8 44.6 66.8
 63 30.4 24.9 37.3

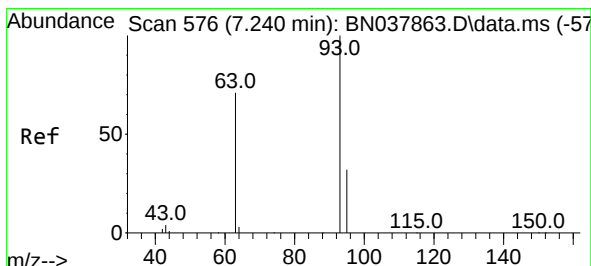
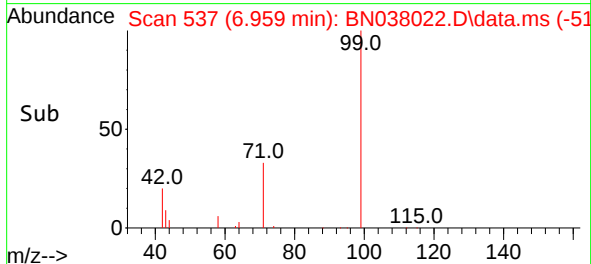
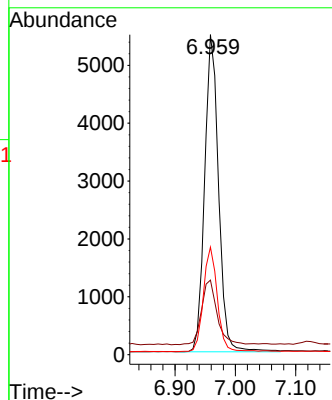
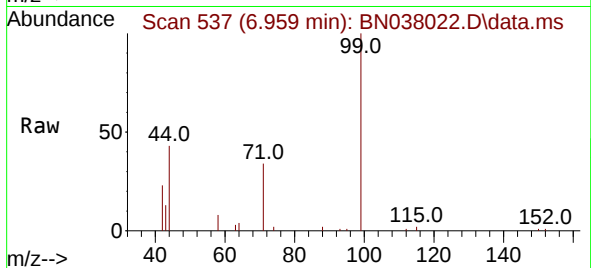




#5
Phenol-d6
Concen: 0.356 ng
RT: 6.959 min Scan# 51
Delta R.T. -0.015 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

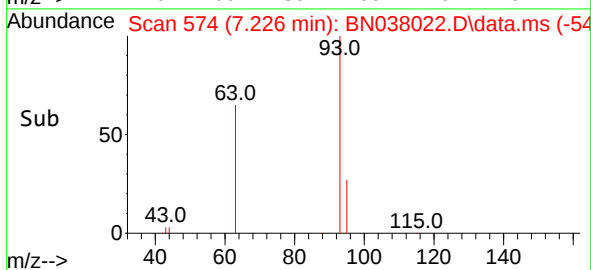
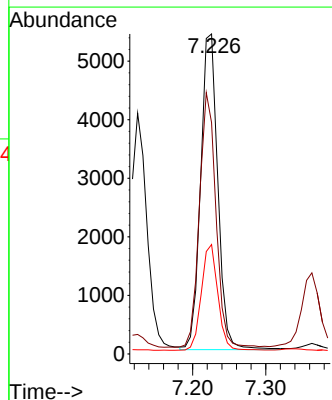
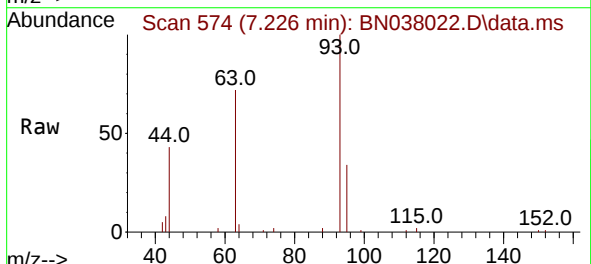
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

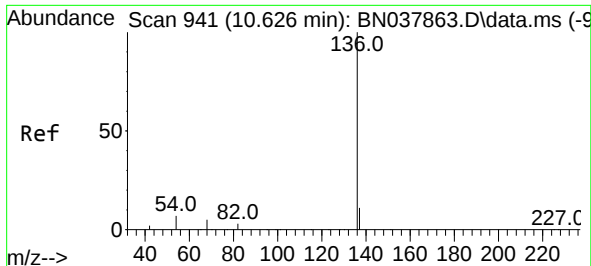
Tgt Ion:	99	Resp:	8816
Ion	Ratio	Lower	Upper
99	100		
42	22.9	17.2	25.8
71	33.2	27.3	40.9



#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.226 min Scan# 574
Delta R.T. -0.015 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:	93	Resp:	8808
Ion	Ratio	Lower	Upper
93	100		
63	77.4	60.1	90.1
95	32.2	25.4	38.2

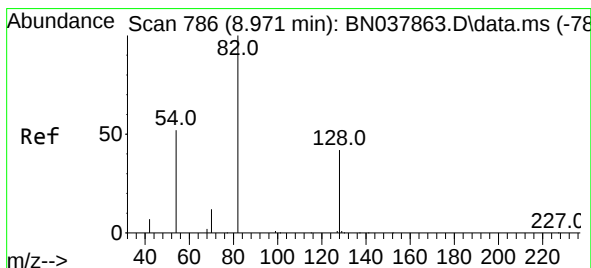
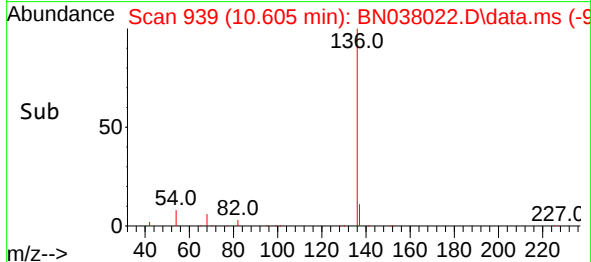
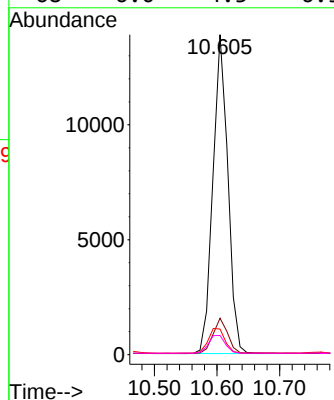
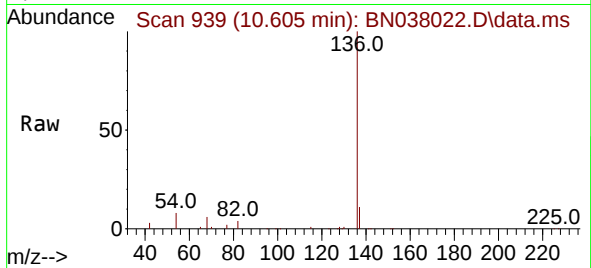




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

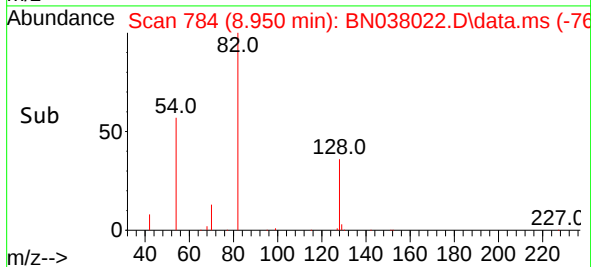
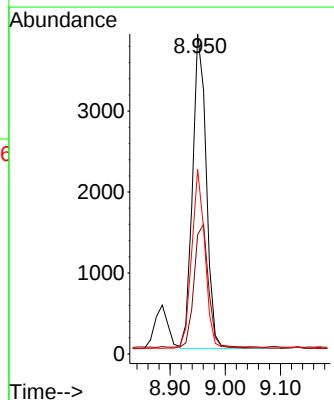
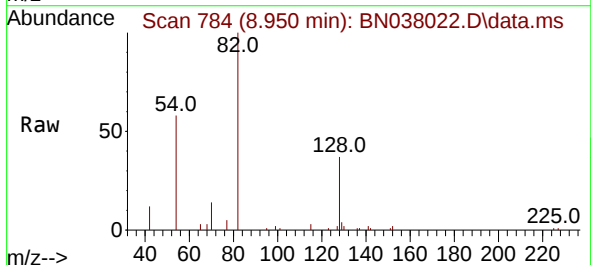
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

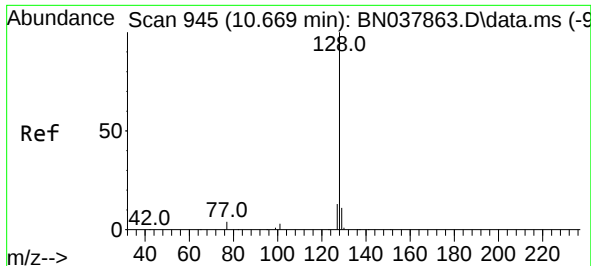
Tgt Ion:136	Resp:	22968
Ion Ratio	Lower	Upper
136	100	
137	11.4	9.0 13.4
54	8.0	5.8 8.8
68	6.0	4.3 6.5



#8
Nitrobenzene-d5
Concen: 0.381 ng
RT: 8.950 min Scan# 784
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion: 82	Resp:	6668
Ion Ratio	Lower	Upper
82	100	
128	37.3	34.8 52.2
54	57.7	42.2 63.2

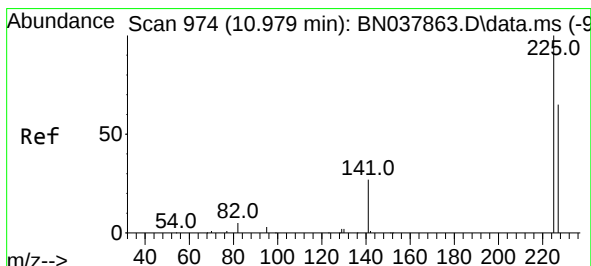
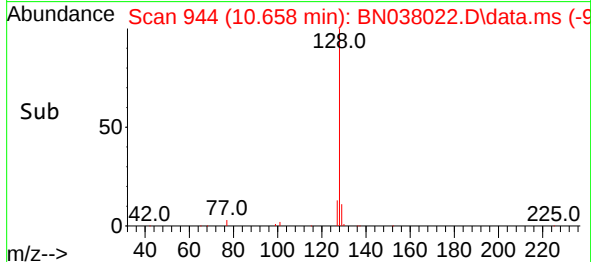
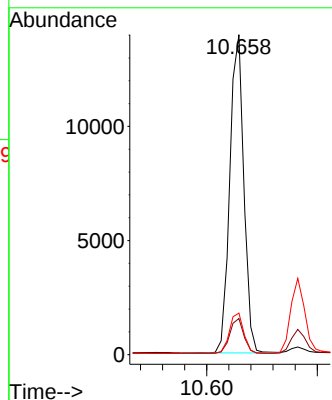
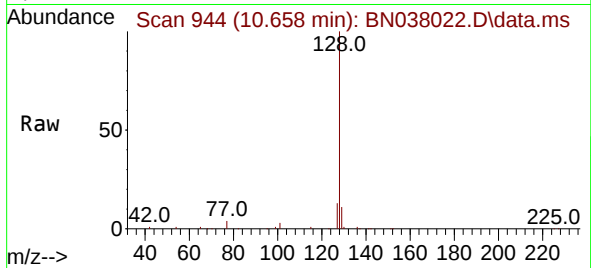




#9
Naphthalene
Concen: 0.387 ng
RT: 10.658 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

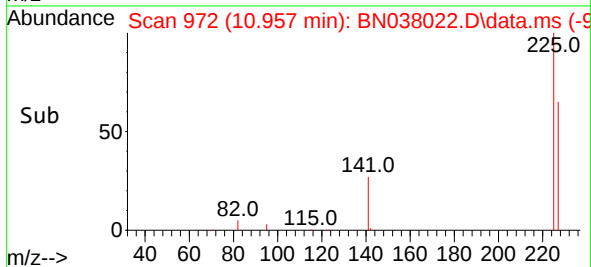
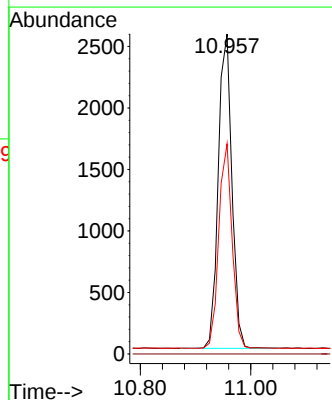
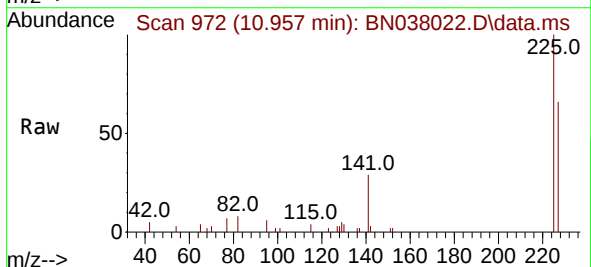
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

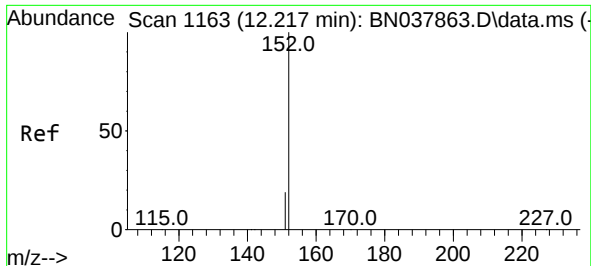
Tgt Ion:128 Resp: 24498
Ion Ratio Lower Upper
128 100
129 11.3 9.2 13.8
127 13.0 11.0 16.6



#10
Hexachlorobutadiene
Concen: 0.404 ng
RT: 10.957 min Scan# 972
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:225 Resp: 4360
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 51.4 77.2

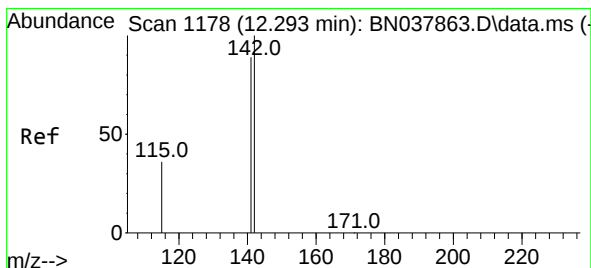
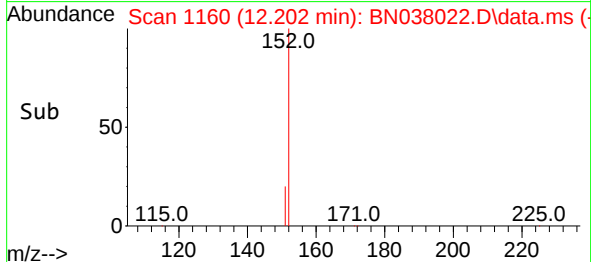
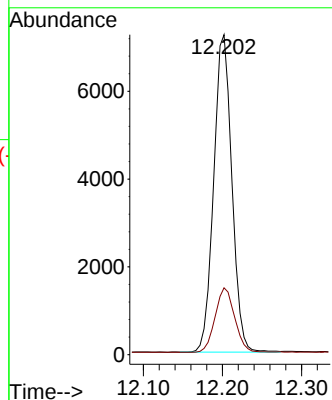
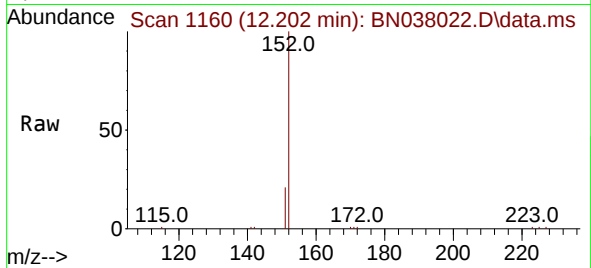




#11
2-Methylnaphthalene-d10
Concen: 0.362 ng
RT: 12.202 min Scan# 1160
Delta R.T. -0.015 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

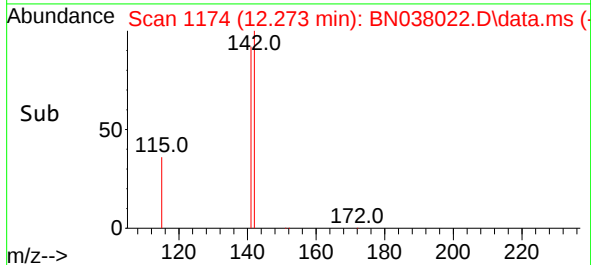
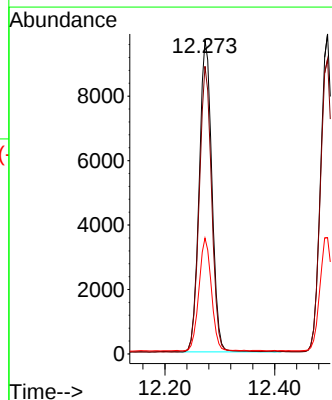
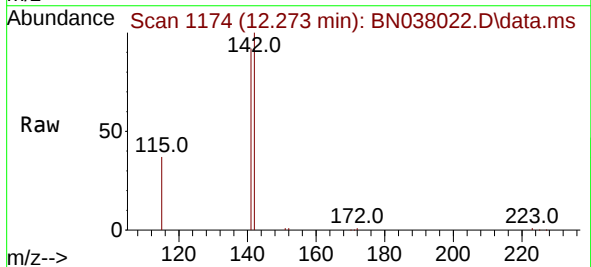
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

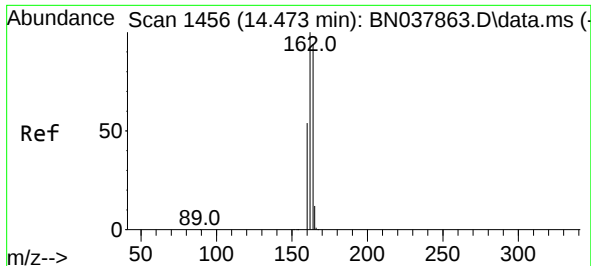
Tgt Ion:152 Resp: 11565
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.2



#12
2-Methylnaphthalene
Concen: 0.375 ng
RT: 12.273 min Scan# 1174
Delta R.T. -0.021 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:142 Resp: 15485
Ion Ratio Lower Upper
142 100
141 91.7 71.2 106.8
115 36.9 29.7 44.5

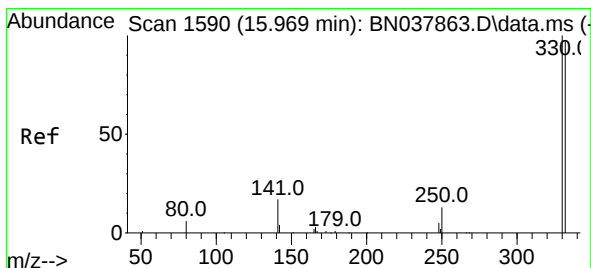
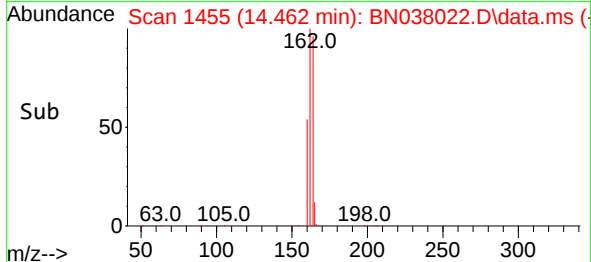
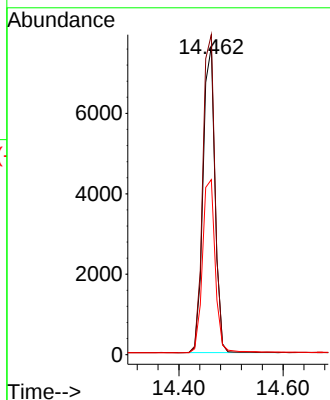
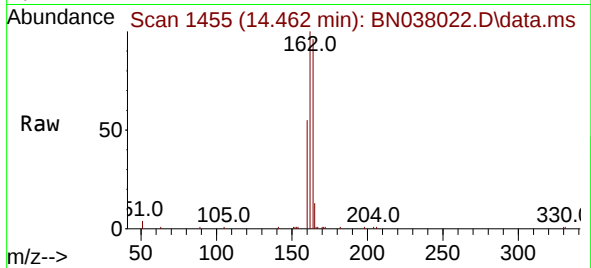




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.462 min Scan# 14
 Delta R.T. -0.011 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

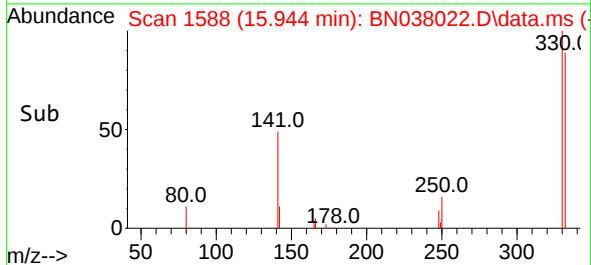
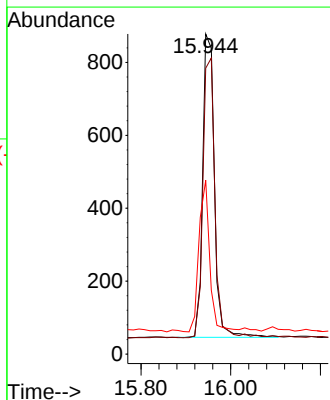
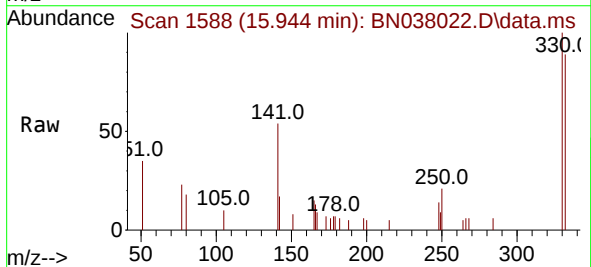
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

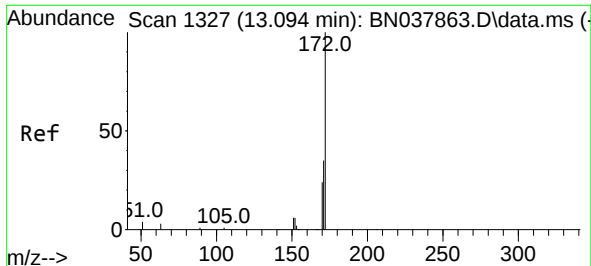
Tgt Ion:164 Resp: 12134
 Ion Ratio Lower Upper
 164 100
 162 103.9 84.8 127.2
 160 56.8 46.1 69.1



#14
 2,4,6-Tribromophenol
 Concen: 0.329 ng
 RT: 15.944 min Scan# 1588
 Delta R.T. -0.025 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

Tgt Ion:330 Resp: 1512
 Ion Ratio Lower Upper
 330 100
 332 94.4 77.2 115.8
 141 45.7 37.2 55.8

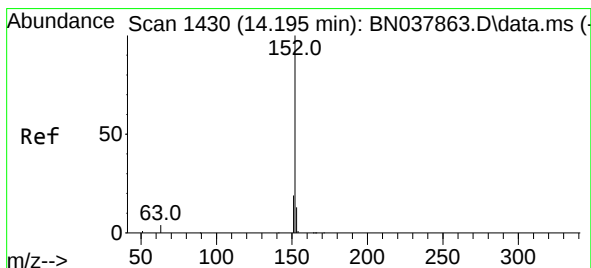
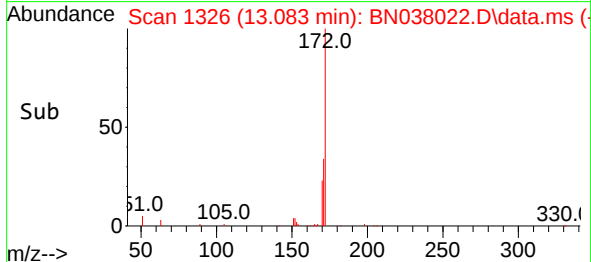
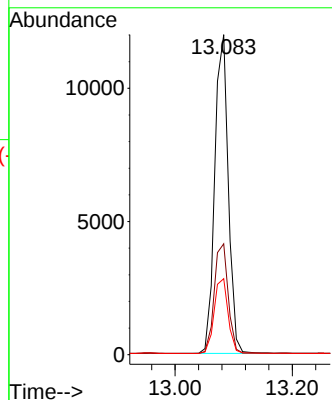
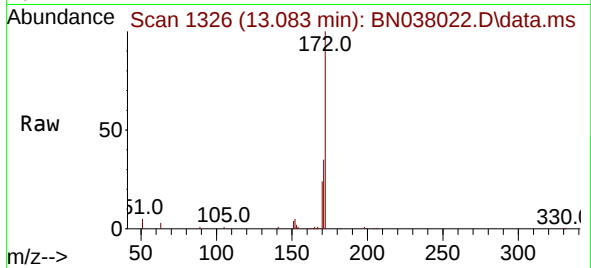




#15
2-Fluorobiphenyl
Concen: 0.386 ng
RT: 13.083 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

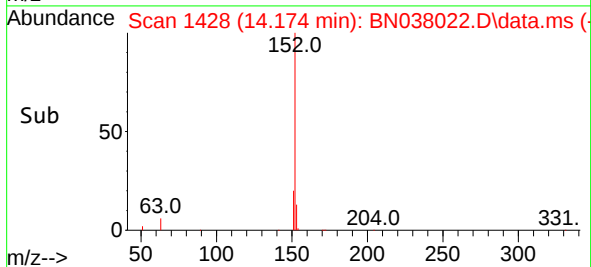
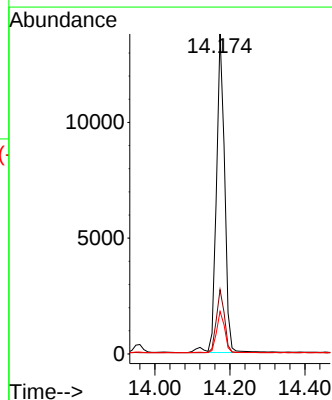
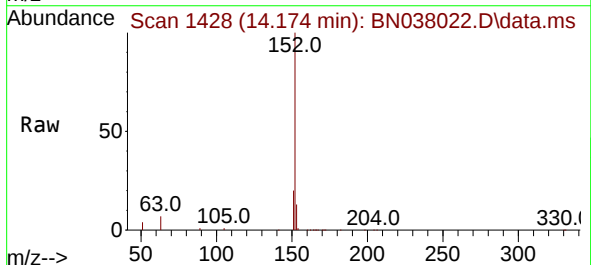
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

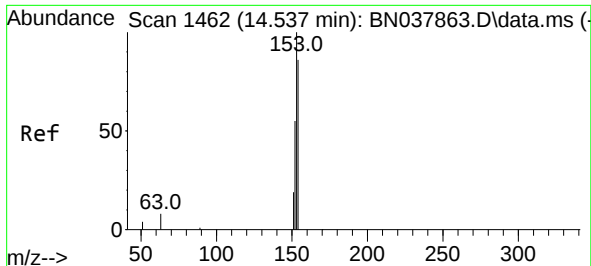
Tgt Ion:172 Resp: 19165
Ion Ratio Lower Upper
172 100
171 34.7 28.6 43.0
170 23.7 19.7 29.5



#16
Acenaphthylene
Concen: 0.382 ng
RT: 14.174 min Scan# 1428
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:152 Resp: 21062
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.8
153 13.0 10.5 15.7

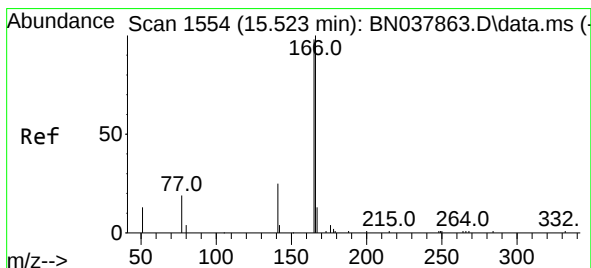
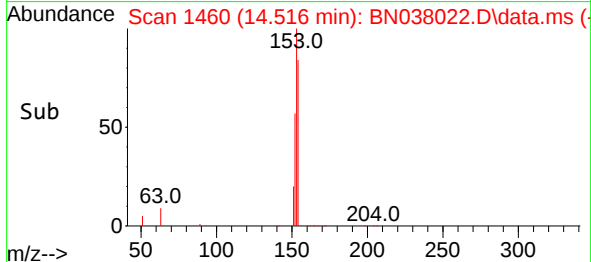
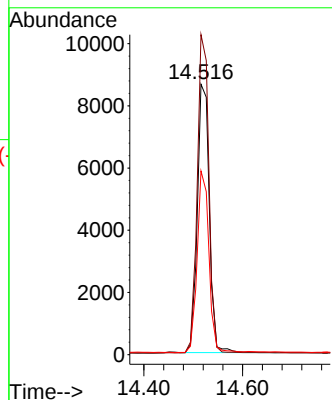
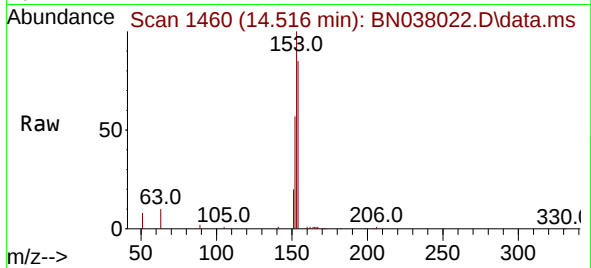




#17
Acenaphthene
Concen: 0.369 ng
RT: 14.516 min Scan# 1460
Delta R.T. -0.022 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

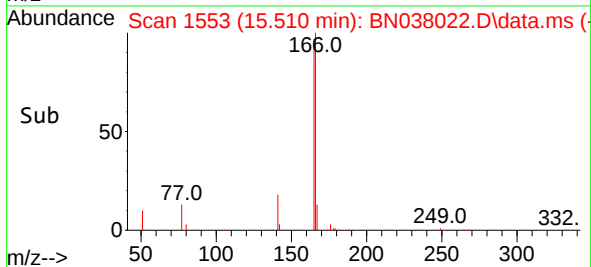
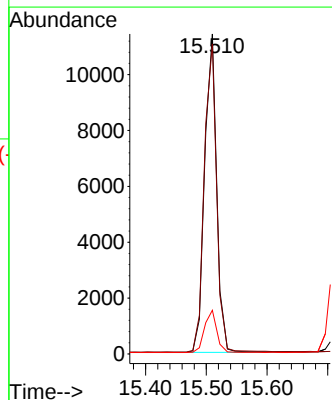
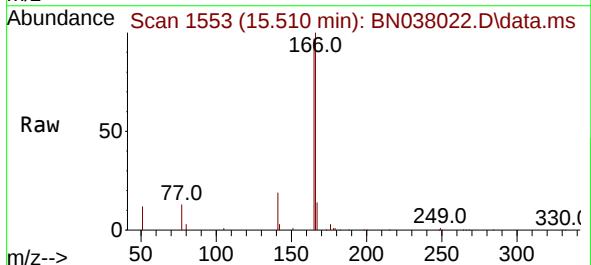
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

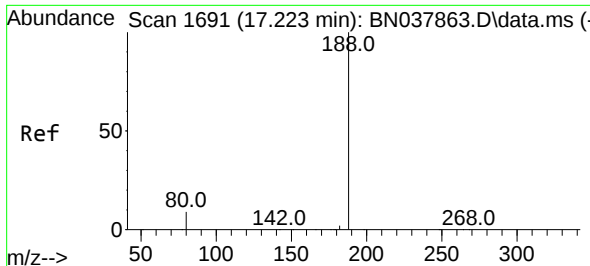
Tgt Ion:154 Resp: 14495
Ion Ratio Lower Upper
154 100
153 115.5 90.5 135.7
152 66.5 51.8 77.8



#18
Fluorene
Concen: 0.343 ng
RT: 15.510 min Scan# 1553
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:166 Resp: 16302
Ion Ratio Lower Upper
166 100
165 99.1 79.0 118.4
167 13.7 10.6 16.0

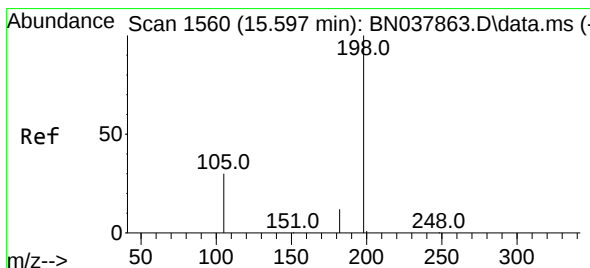
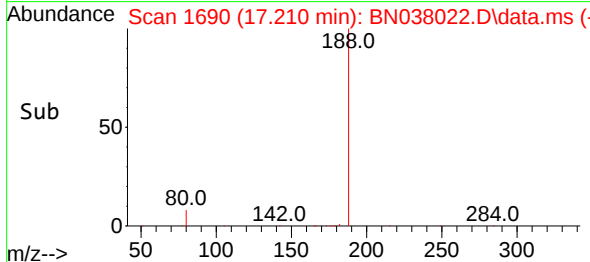
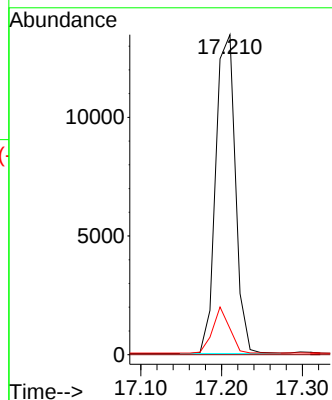
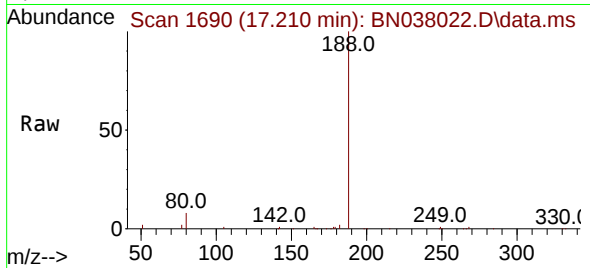




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.210 min Scan# 1
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

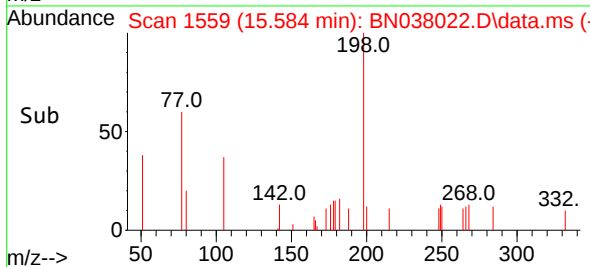
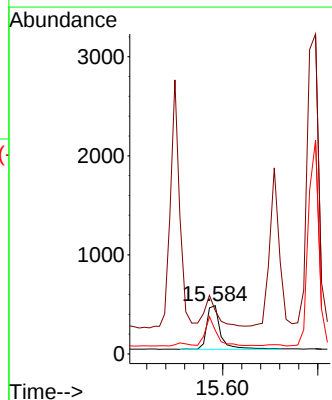
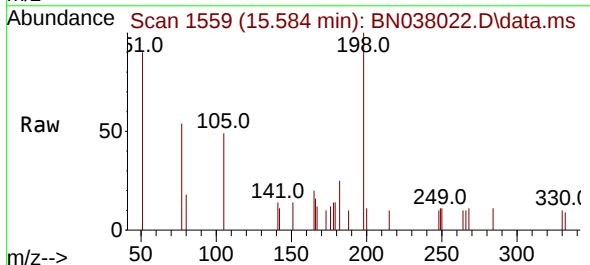
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

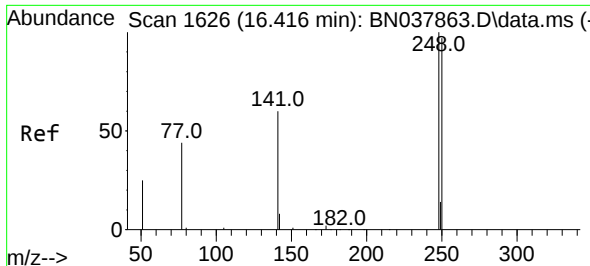
Tgt Ion:188 Resp: 22733
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.2 7.6 11.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.375 ng
RT: 15.584 min Scan# 1559
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:198 Resp: 897
Ion Ratio Lower Upper
198 100
51 89.5 59.1 88.7#
105 49.0 41.3 61.9





#21
4-Bromophenyl-phenylether
Concen: 0.385 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.013 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

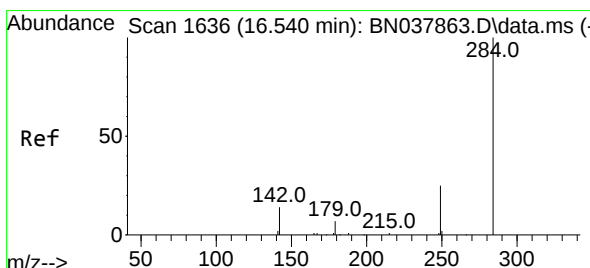
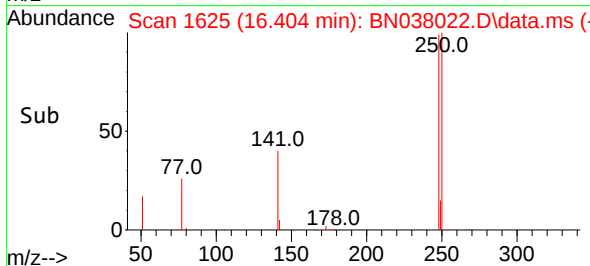
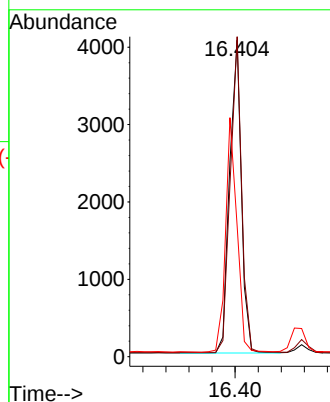
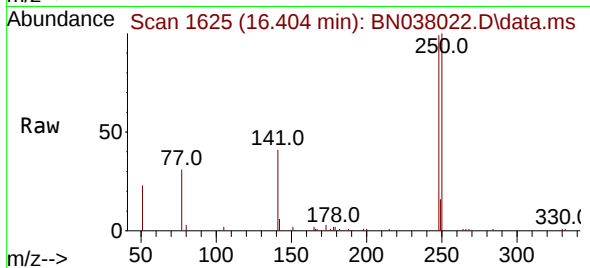
Instrument :

BNA_N

ClientSampleId :

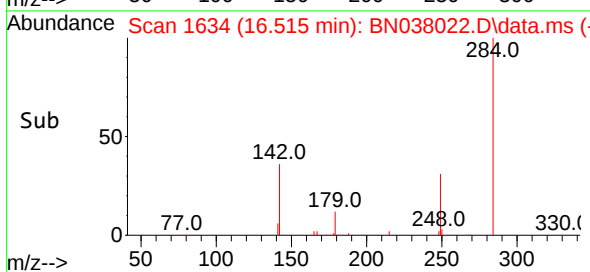
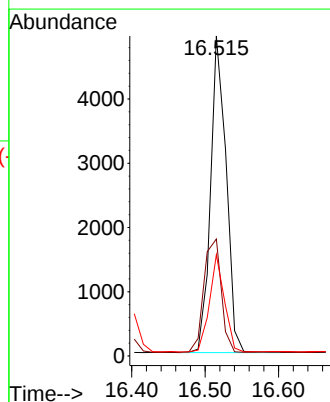
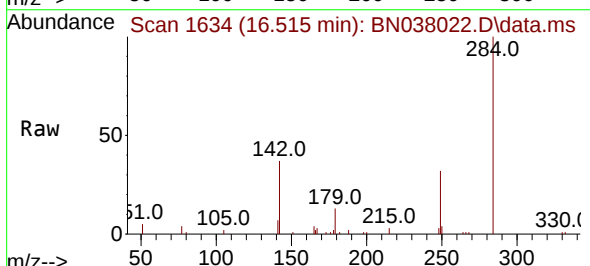
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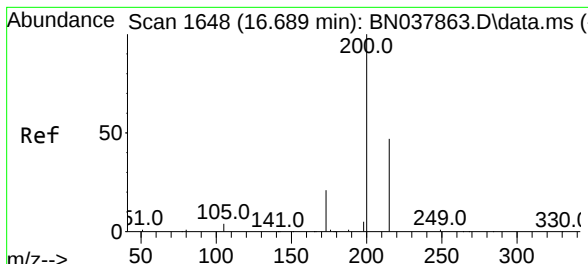
Tgt Ion:248 Resp: 5704
Ion Ratio Lower Upper
248 100
250 101.1 77.6 116.4
141 41.2 48.8 73.2#



#22
Hexachlorobenzene
Concen: 0.405 ng
RT: 16.515 min Scan# 1634
Delta R.T. -0.025 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:284 Resp: 7267
Ion Ratio Lower Upper
284 100
142 39.9 30.9 46.3
249 29.4 23.9 35.9

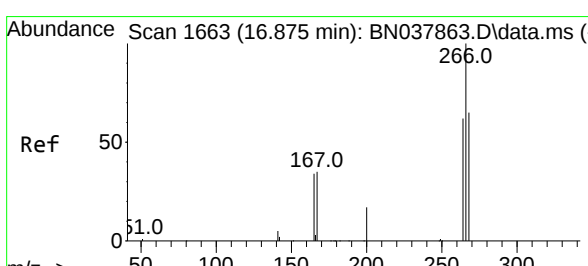
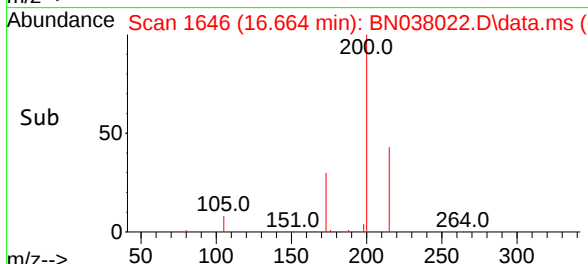
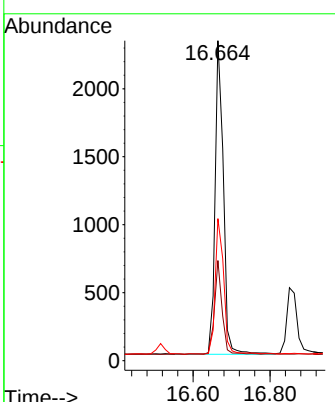
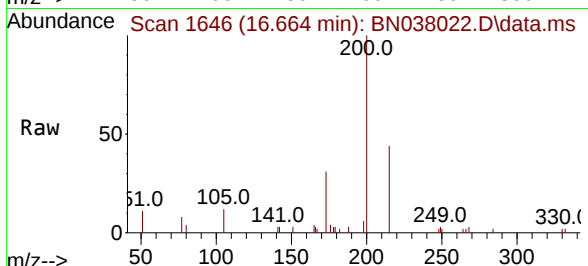




#23
 Atrazine
 Concen: 0.304 ng
 RT: 16.664 min Scan# 1646
 Delta R.T. -0.025 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

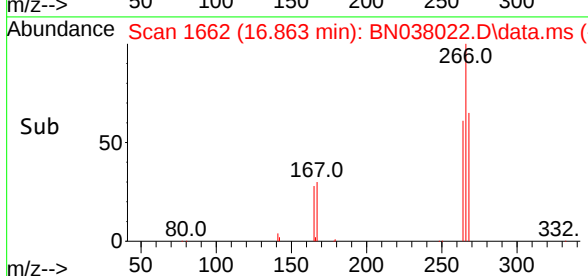
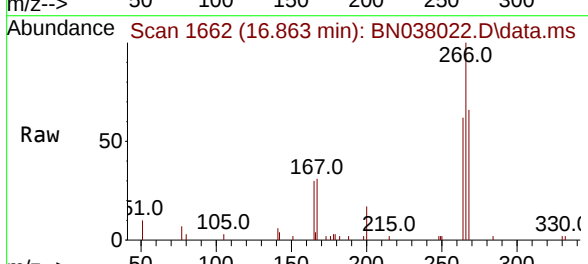
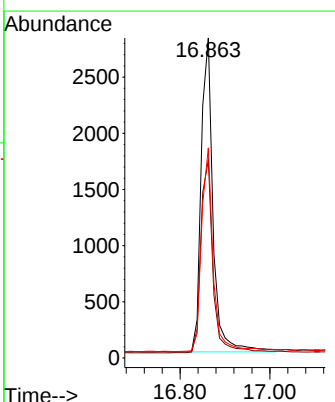
Instrument :
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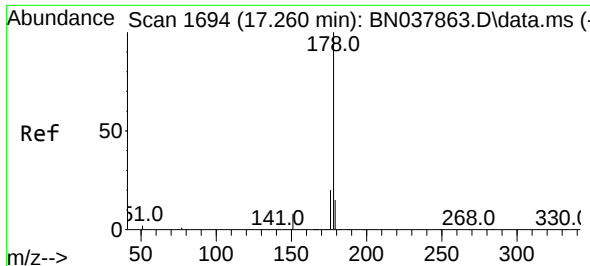
Tgt Ion:	200	Resp:	3424
Ion Ratio	Lower	Upper	
200	100		
173	31.3	18.3	27.5#
215	44.4	38.6	58.0



#24
 Pentachlorophenol
 Concen: 0.833 ng
 RT: 16.863 min Scan# 1662
 Delta R.T. -0.012 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

Tgt Ion:	266	Resp:	5132
Ion Ratio	Lower	Upper	
266	100		
264	62.6	50.9	76.3
268	63.9	54.3	81.5

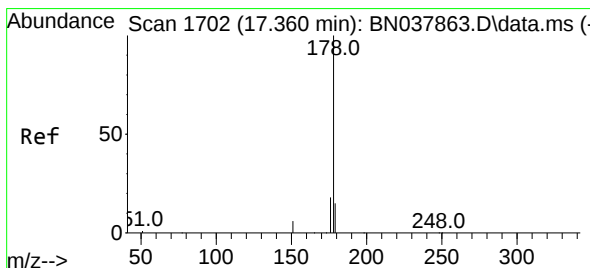
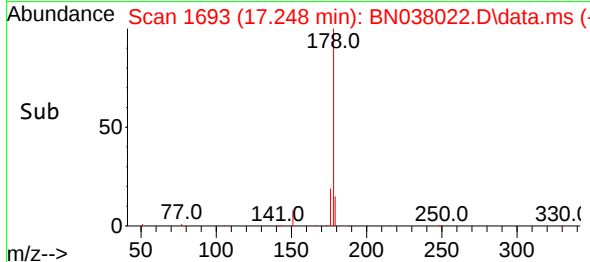
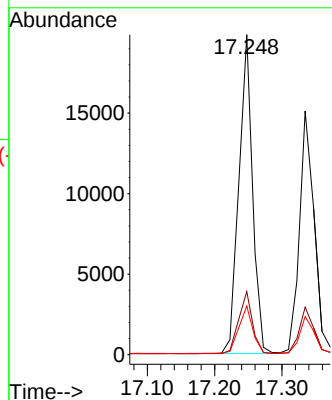
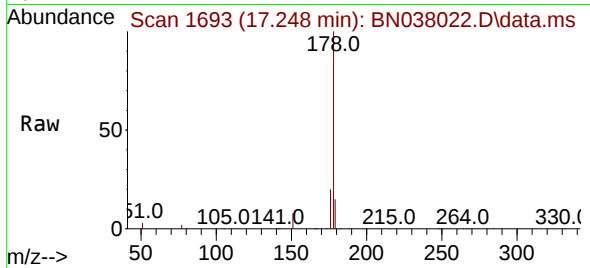




#25
 Phenanthrene
 Concen: 0.375 ng
 RT: 17.248 min Scan# 1700
 Delta R.T. -0.013 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

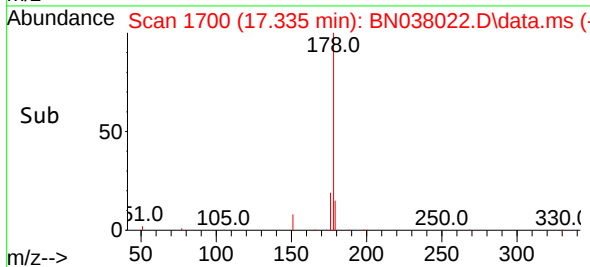
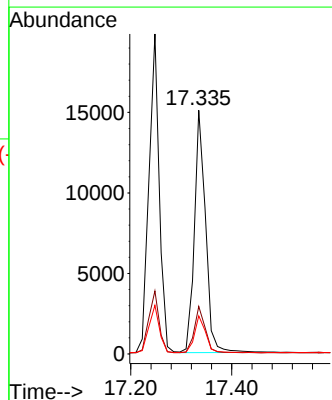
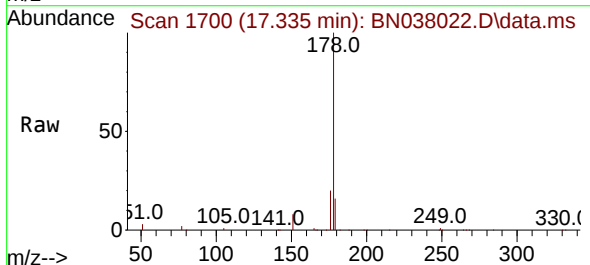
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

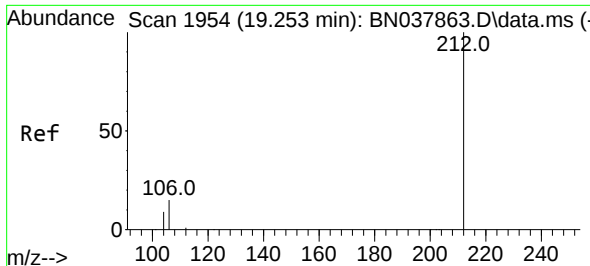
Tgt Ion:178 Resp: 28024
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.7 23.5
 179 15.3 12.3 18.5



#26
 Anthracene
 Concen: 0.357 ng
 RT: 17.335 min Scan# 1700
 Delta R.T. -0.025 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

Tgt Ion:178 Resp: 23199
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.0 22.4
 179 15.3 12.3 18.5

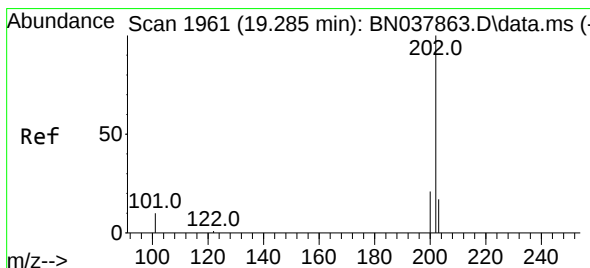
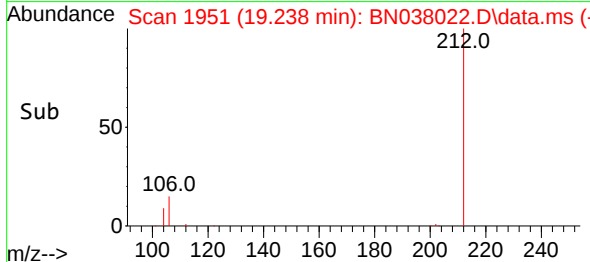
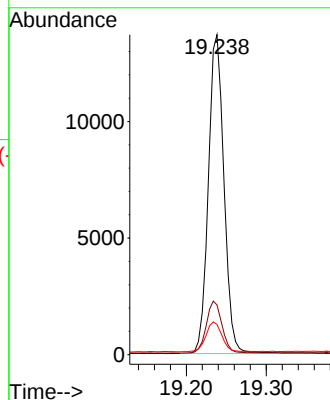
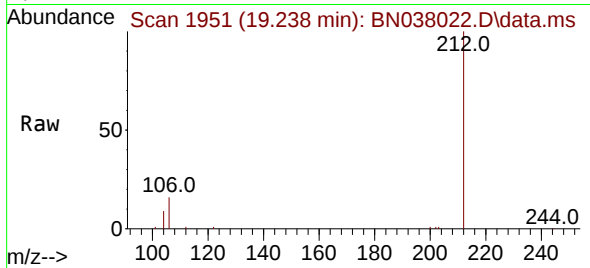




#27
Fluoranthene-d10
Concen: 0.323 ng
RT: 19.238 min Scan# 1951
Delta R.T. -0.014 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

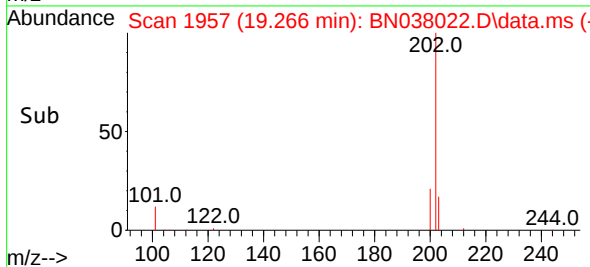
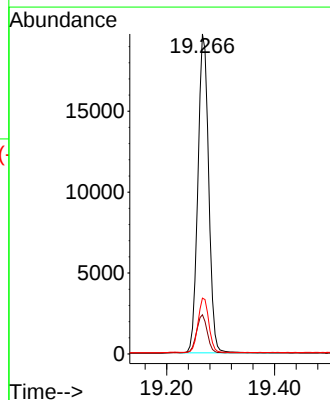
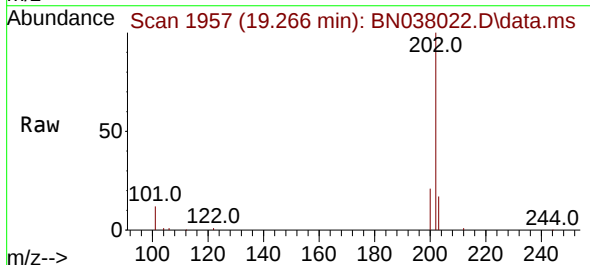
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

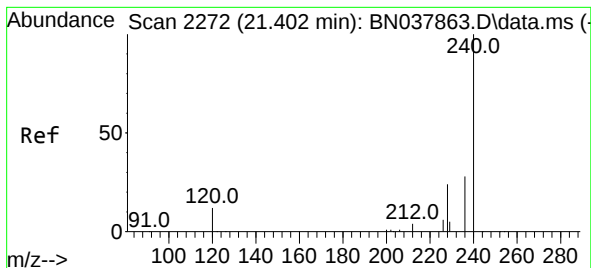
Tgt Ion:212 Resp: 18490
Ion Ratio Lower Upper
212 100
106 16.3 12.6 19.0
104 9.6 7.4 11.0



#28
Fluoranthene
Concen: 0.331 ng
RT: 19.266 min Scan# 1957
Delta R.T. -0.019 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:202 Resp: 27243
Ion Ratio Lower Upper
202 100
101 12.2 9.3 13.9
203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

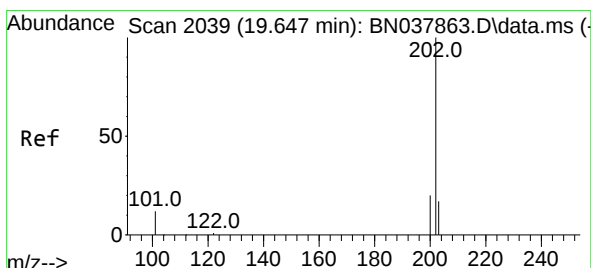
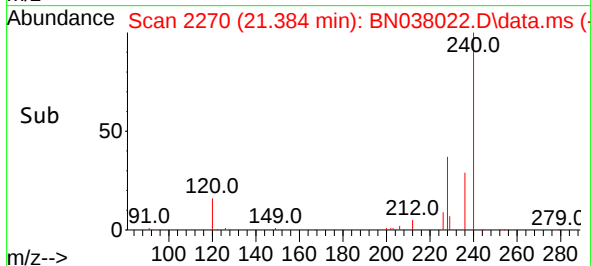
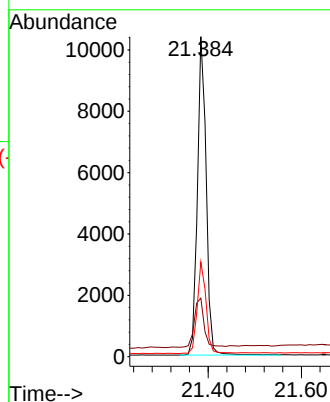
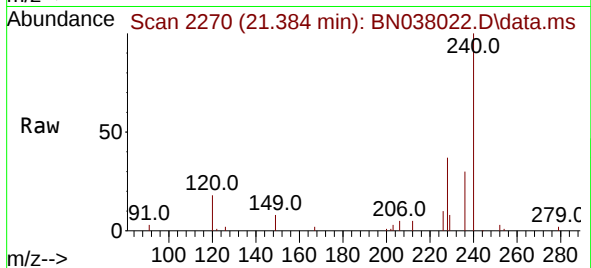
Tgt Ion:240 Resp: 13562

Ion Ratio Lower Upper

240 100

120 18.3 11.4 17.2#

236 29.6 23.0 34.6



#30

Pyrene

Concen: 0.487 ng

RT: 19.629 min Scan# 2035

Delta R.T. -0.019 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

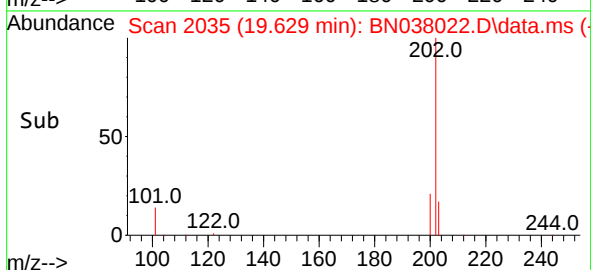
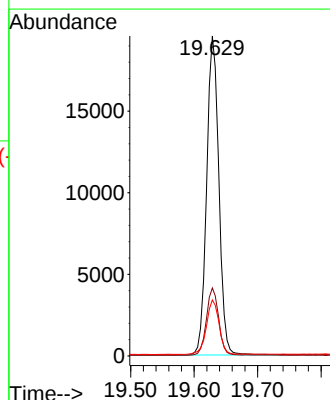
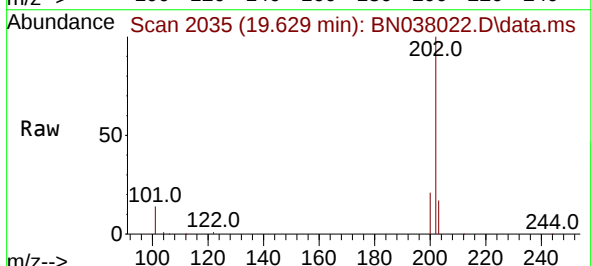
Tgt Ion:202 Resp: 26066

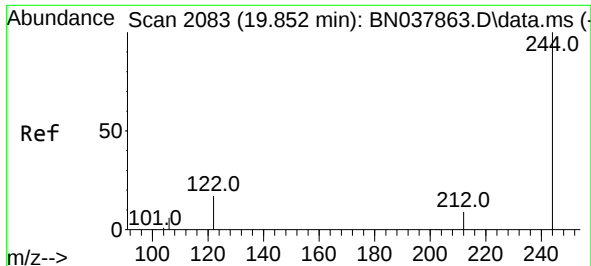
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.6 14.2 21.4

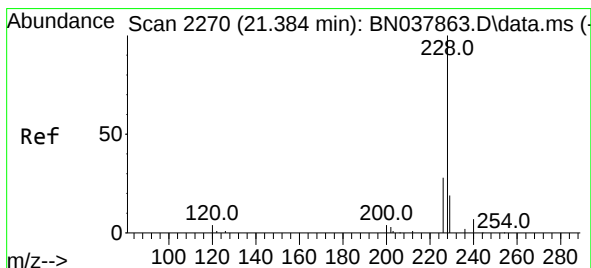
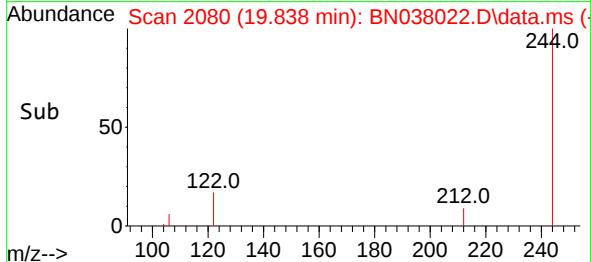
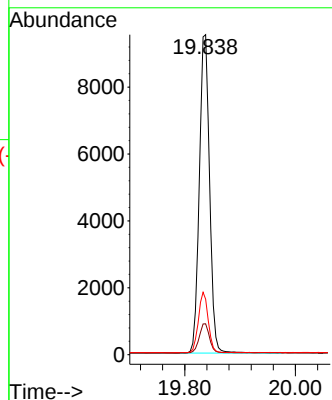
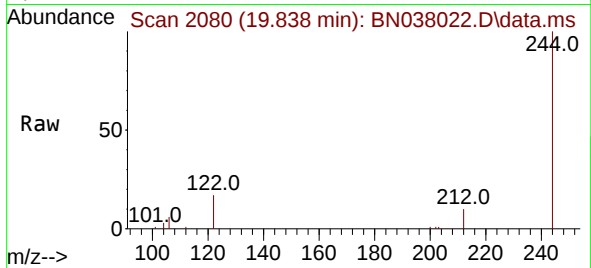




#31
 Terphenyl-d14
 Concen: 0.455 ng
 RT: 19.838 min Scan# 2083
 Delta R.T. -0.014 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

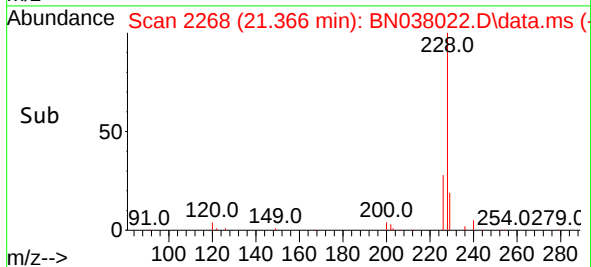
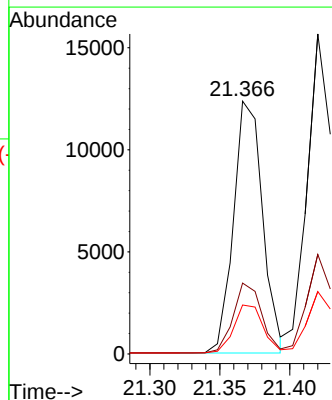
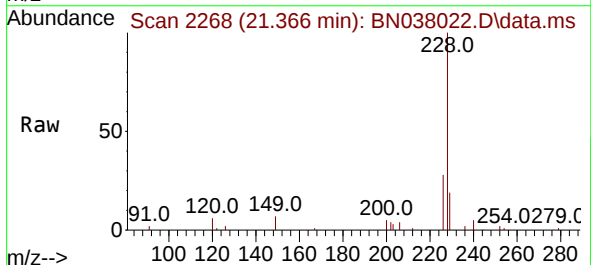
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

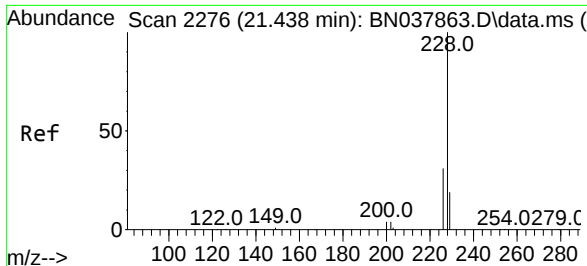
Tgt Ion:244 Resp: 12280
 Ion Ratio Lower Upper
 244 100
 212 9.6 7.6 11.4
 122 17.3 13.9 20.9



#32
 Benzo(a)anthracene
 Concen: 0.377 ng
 RT: 21.366 min Scan# 2268
 Delta R.T. -0.018 min
 Lab File: BN038022.D
 Acq: 06 Oct 2025 23:32

Tgt Ion:228 Resp: 17879
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.6 33.8
 229 19.4 15.6 23.4





#33

Chrysene

Concen: 0.394 ng

RT: 21.420 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

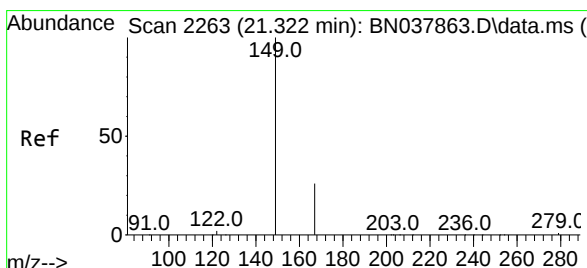
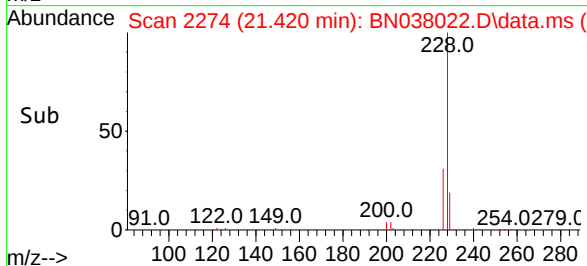
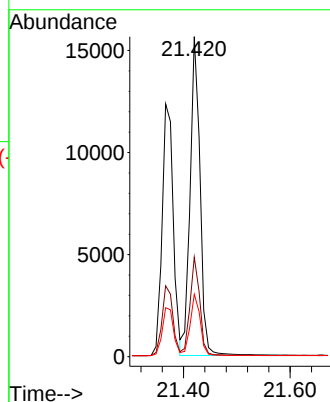
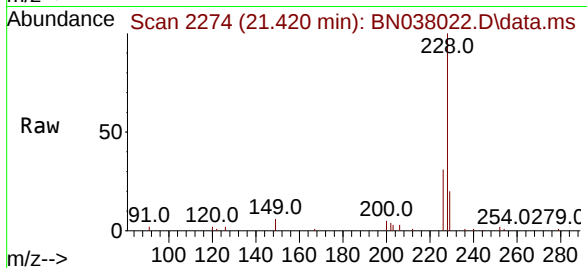
Tgt Ion:228 Resp: 20217

Ion Ratio Lower Upper

228 100

226 31.1 24.6 37.0

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.317 ng

RT: 21.304 min Scan# 2261

Delta R.T. -0.018 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

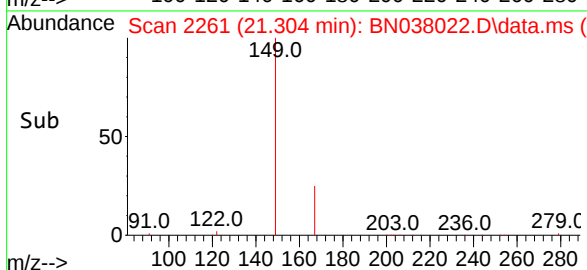
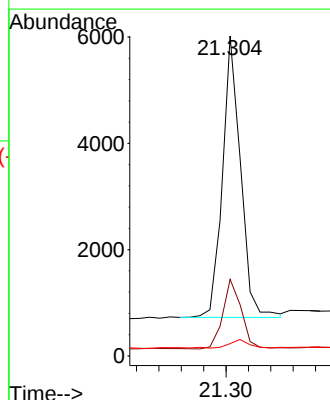
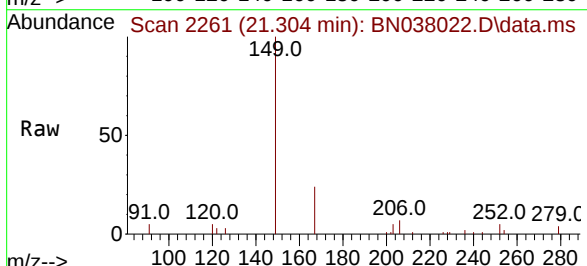
Tgt Ion:149 Resp: 5945

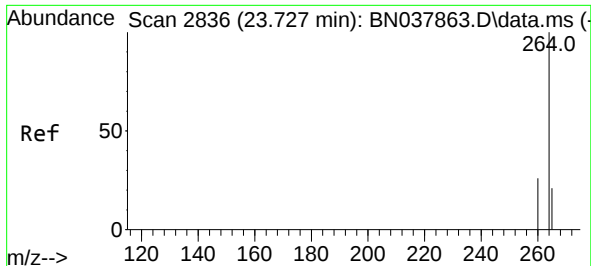
Ion Ratio Lower Upper

149 100

167 25.4 20.4 30.6

279 3.0 2.4 3.6

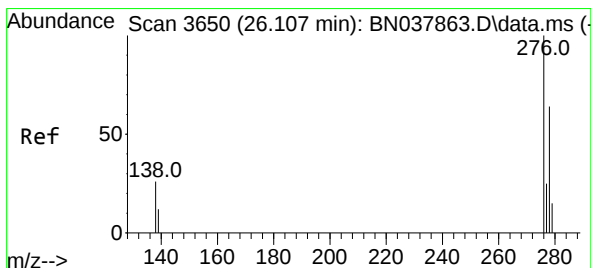
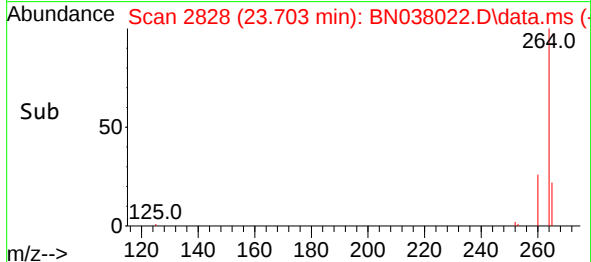
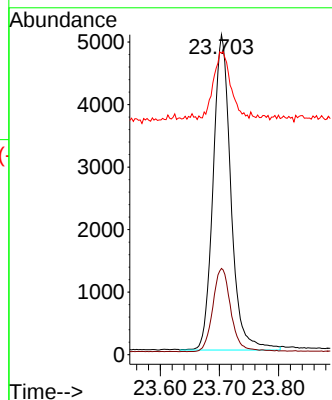
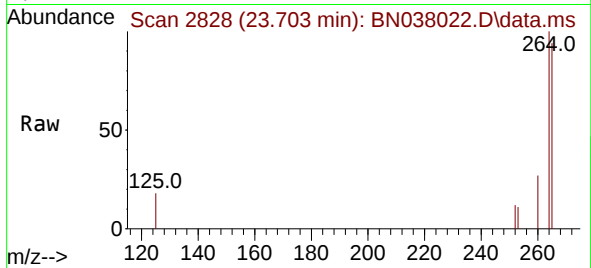




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.703 min Scan# 21
Delta R.T. -0.024 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

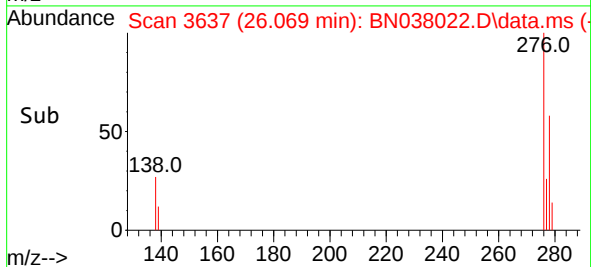
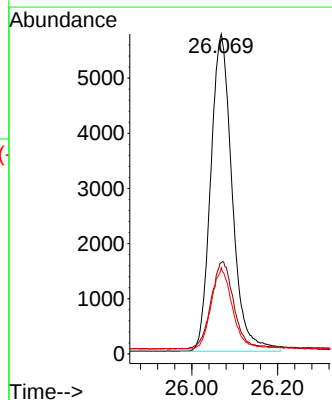
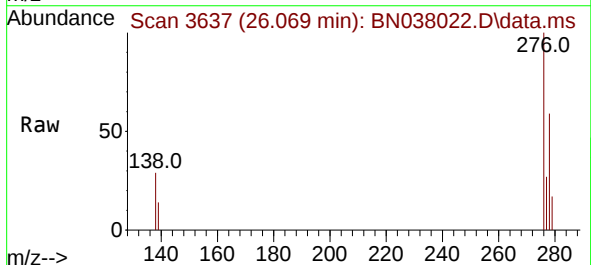
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

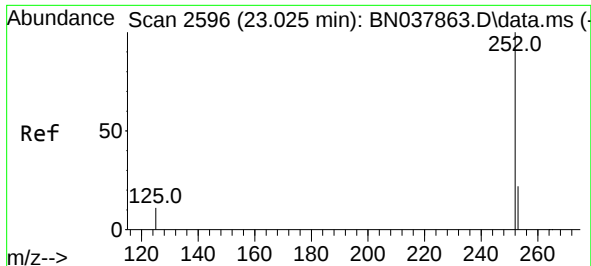
Tgt Ion:264 Resp: 10530
Ion Ratio Lower Upper
264 100
260 26.9 21.5 32.3
265 94.1 53.8 80.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.414 ng
RT: 26.069 min Scan# 3637
Delta R.T. -0.038 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

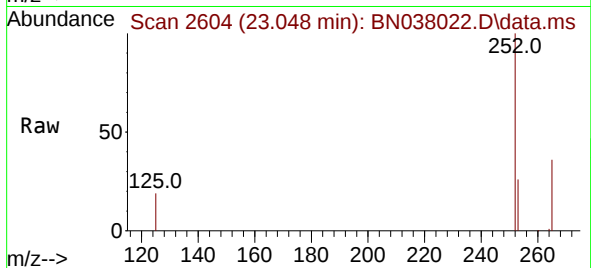
Tgt Ion:276 Resp: 19936
Ion Ratio Lower Upper
276 100
138 29.0 21.4 32.0
277 25.0 20.3 30.5



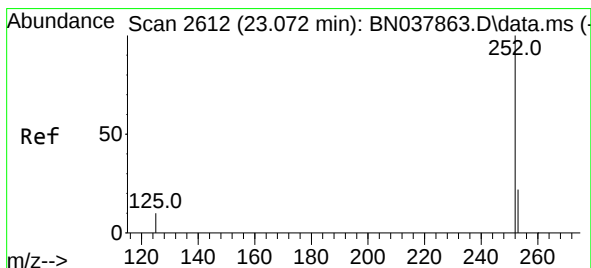
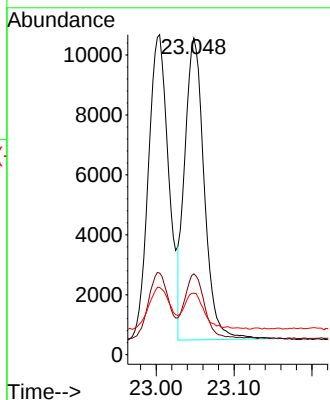
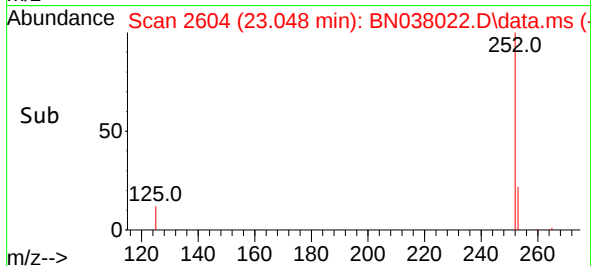


#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 23.048 min Scan# 2604
Delta R.T. 0.023 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

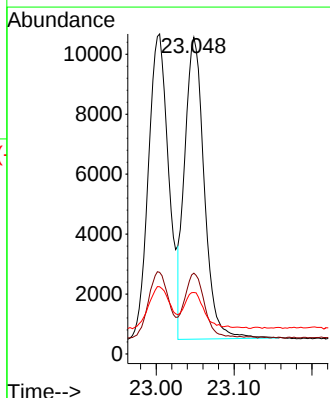
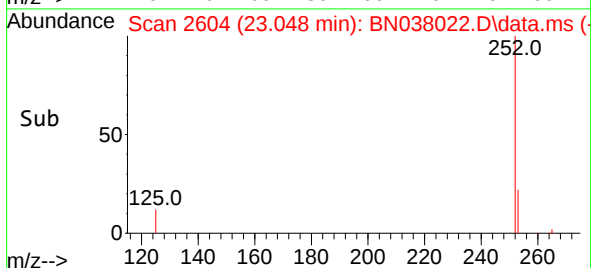
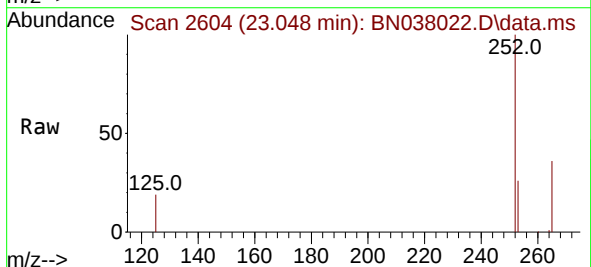


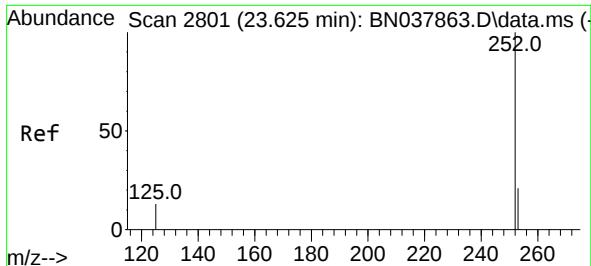
Tgt Ion:252 Resp: 17538
Ion Ratio Lower Upper
252 100
253 25.5 19.4 29.0
125 19.4 13.0 19.4



#38
Benzo(k)fluoranthene
Concen: 0.384 ng
RT: 23.048 min Scan# 2604
Delta R.T. -0.024 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Tgt Ion:252 Resp: 17538
Ion Ratio Lower Upper
252 100
253 25.5 19.5 29.3
125 19.4 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.601 min Scan# 21

Delta R.T. -0.024 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

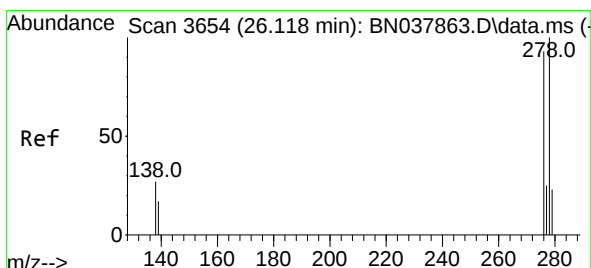
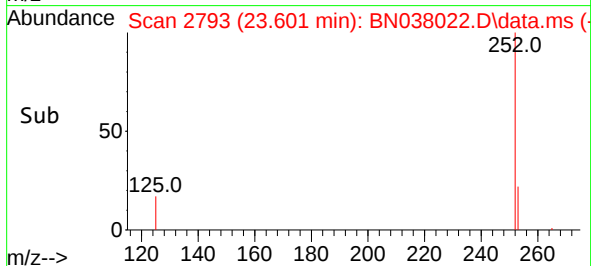
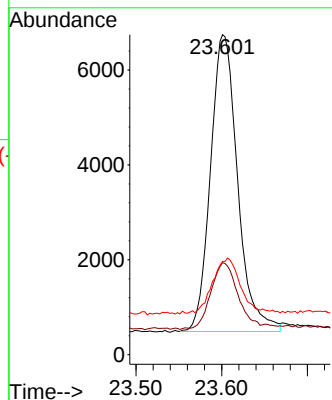
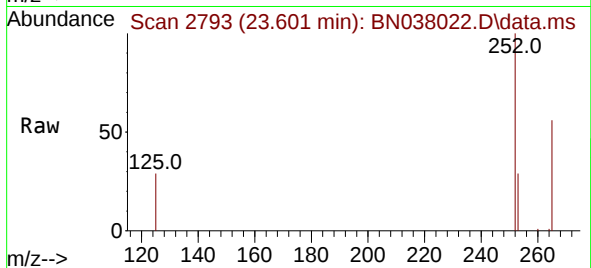
Tgt Ion:252 Resp: 13760

Ion Ratio Lower Upper

252 100

253 28.7 20.6 30.8

125 29.2 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.407 ng

RT: 26.083 min Scan# 3642

Delta R.T. -0.035 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

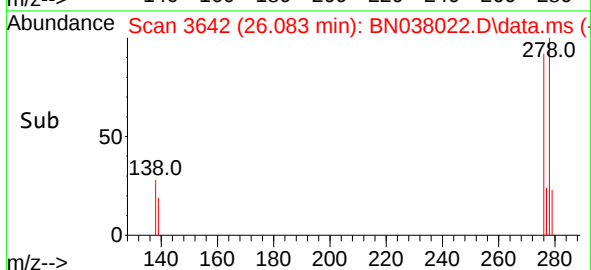
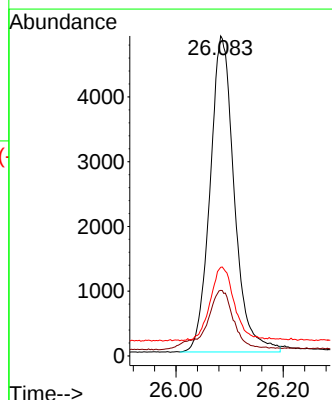
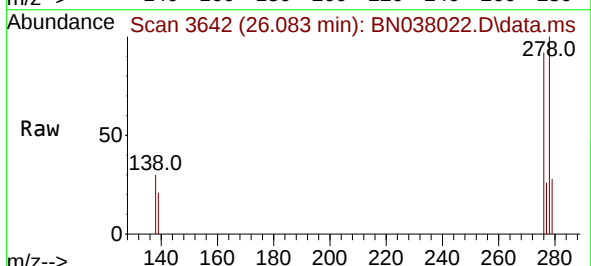
Tgt Ion:278 Resp: 15307

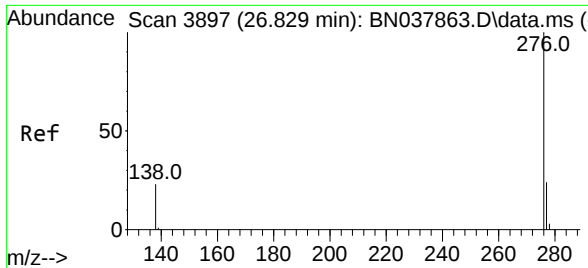
Ion Ratio Lower Upper

278 100

139 20.5 15.4 23.2

279 27.7 20.8 31.2





#41
Benzo(g,h,i)perylene
Concen: 0.425 ng
RT: 26.791 min Scan# 3884
Delta R.T. -0.038 min
Lab File: BN038022.D
Acq: 06 Oct 2025 23:32

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 16776
Ion Ratio Lower Upper
276 100
277 25.1 20.2 30.4
138 26.2 19.8 29.8

