

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

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

**ORDER ID : Q2886
ATTENTION : Ernie Wu**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2886

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2886-01
Q2886-02

Client Sample Number

BP-TT182D-TB-20250814
BP-TT182D-GW-20250814

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

Signature : _____

Date: 8/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q2886

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

1 Water sample was received on 08/15/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The 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 File ID BN037641.D met the requirements except for Phenol-d6. Failed surrogate is not associated with DOD, Therefore no further corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

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

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



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The temperature of the samples at the time of receipt was 21.0.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2886

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 File ID BN037641.D met the requirements except for Phenol-d6. Failed surrogate is not associated with DOD, Therefore no further corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all compounds.			
	The Blank Spike Duplicate met requirements for all compounds.			

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

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

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)." The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The temperature of the samples at the time of receipt was 21.0.

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

 QA REVIEW

 Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2886

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 08/27/2025

LAB CHRONICLE

OrderID:	Q2886	OrderDate:	8/15/2025 11:08:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	J13,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2886-02	BP-TT182D-GW-2025 0814	Water	SVOC-SIMGroup1	8270-Modified	08/14/25	08/20/25	08/20/25	08/15/25



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Hit Summary Sheet SW-846

SDG No.: Q2886

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
Total Svoc :					0.00				
Total Concentration:					0.00				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2886

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB169328BL	PB169328BL	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
PB169328BS	PB169328BS	2-Methylnaphthalene-d10	0.4	0.34	86		30	150
		Fluoranthene-d10	0.4	0.33	81		30	150
		Nitrobenzene-d5	0.4	0.38	95		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB169328BSD	PB169328BSD	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.37	93		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q2886-02	BP-TT182D-GW-20250814	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.36	91		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.46	114		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2886

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037635.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB169328BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2886

Analytical Method: 8270-Modified

Client: Tetra Tech NUS, Inc.

DataFile: BN037636.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB169328BSD	1,4-Dioxane	0.4	0.31	ug/L	78	3			70	130		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169328BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q2886

Lab File ID: BN037634.D

Lab Sample ID: PB169328BL

Instrument ID: BNA_N

Date Extracted: 08/20/2025

Matrix: (soil/water) Water

Date Analyzed: 08/20/2025

Level: (low/med) LOW

Time Analyzed: 17:33

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169328BS	PB169328BS	BN037635.D	08/20/2025
PB169328BSD	PB169328BSD	BN037636.D	08/20/2025
BP-TT182D-GW-20250814	Q2886-02	BN037640.D	08/20/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

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

Contract: TETR06
SDG NO.: Q2886
DFTPP Injection Date: 08/12/2025
DFTPP Injection Time: 15:05

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	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	7.1
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	87.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037578.D	08/12/2025	16:26
SSTDICC0.2	SSTDICC0.2	BN037579.D	08/12/2025	17:03
SSTDICCC0.4	SSTDICCC0.4	BN037580.D	08/12/2025	17:39
SSTDICC0.8	SSTDICC0.8	BN037581.D	08/12/2025	18:16
SSTDICC1.6	SSTDICC1.6	BN037582.D	08/12/2025	18:52
SSTDICC3.2	SSTDICC3.2	BN037583.D	08/12/2025	19:29
SSTDICC5.0	SSTDICC5.0	BN037584.D	08/12/2025	20:05



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN037632.D
Instrument ID: BNA_N

Contract: TETR06
SDG NO.: Q2886
DFTPP Injection Date: 08/20/2025
DFTPP Injection Time: 16:18

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	81.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037633.D	08/20/2025	16:57
PB169328BL	PB169328BL	BN037634.D	08/20/2025	17:33
PB169328BS	PB169328BS	BN037635.D	08/20/2025	18:10
PB169328BSD	PB169328BSD	BN037636.D	08/20/2025	18:46
BP-TT182D-GW-20250814	Q2886-02	BN037640.D	08/20/2025	21:10
SSTDCCC0.4EC	SSTDCCC0.4	BN037641.D	08/20/2025	21:47

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2886

Client ID : SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037633.D

Time Analyzed: 16:57

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	2754	7.71	6418	10.49	3102	14.35
UPPER LIMIT	5508	8.21	12836	10.987	6204	14.845
LOWER LIMIT	1377	7.21	3209	9.987	1551	13.845
EPA SAMPLE NO.						
01 PB169328BL	2138	7.71	4908	10.49	2089	14.35
02 PB169328BS	2188	7.71	5030	10.49	2230	14.35
03 PB169328BSD	2346	7.71	5382	10.49	2393	14.35
04 BP-TT182D-GW-20250814	1993	7.71	4535	10.49	2256	14.35

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2886

Client ID: SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037633.D

Time Analyzed: 16:57

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	6405	17.086	5848	21.268	4933	23.502
UPPER LIMIT	12810	17.586	11696	21.768	9866	24.002
LOWER LIMIT	3202.5	16.586	2924	20.768	2466.5	23.002
EPA SAMPLE NO.						
01 PB169328BL	4205	17.09	3648	21.27	3405	23.51
02 PB169328BS	4276	17.09	3523	21.27	3228	23.50
03 PB169328BSD	4365	17.09	3473	21.27	3177	23.50
04 BP-TT182D-GW-20250814	4998	17.09	4680	21.27	4140	23.50

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	08/14/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	08/15/25
Client Sample ID:	BP-TT182D-GW-20250814	SDG No.:	Q2886
Lab Sample ID:	Q2886-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037640.D	1	08/20/25 09:05	08/20/25 21:10	PB169328

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1990	7.71				
1146-65-2	Naphthalene-d8	4540	10.487				
15067-26-2	Acenaphthene-d10	2260	14.345				
1517-22-2	Phenanthrene-d10	5000	17.086				
1719-03-5	Chrysene-d12	4680	21.268				
1520-96-3	Perylene-d12	4140	23.496				

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\BN082025\
 Data File : BN037640.D
 Acq On : 20 Aug 2025 21:10
 Operator : RC/JU
 Sample : Q2886-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BP-TT182D-GW-20250814

Quant Time: Aug 21 04:58:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

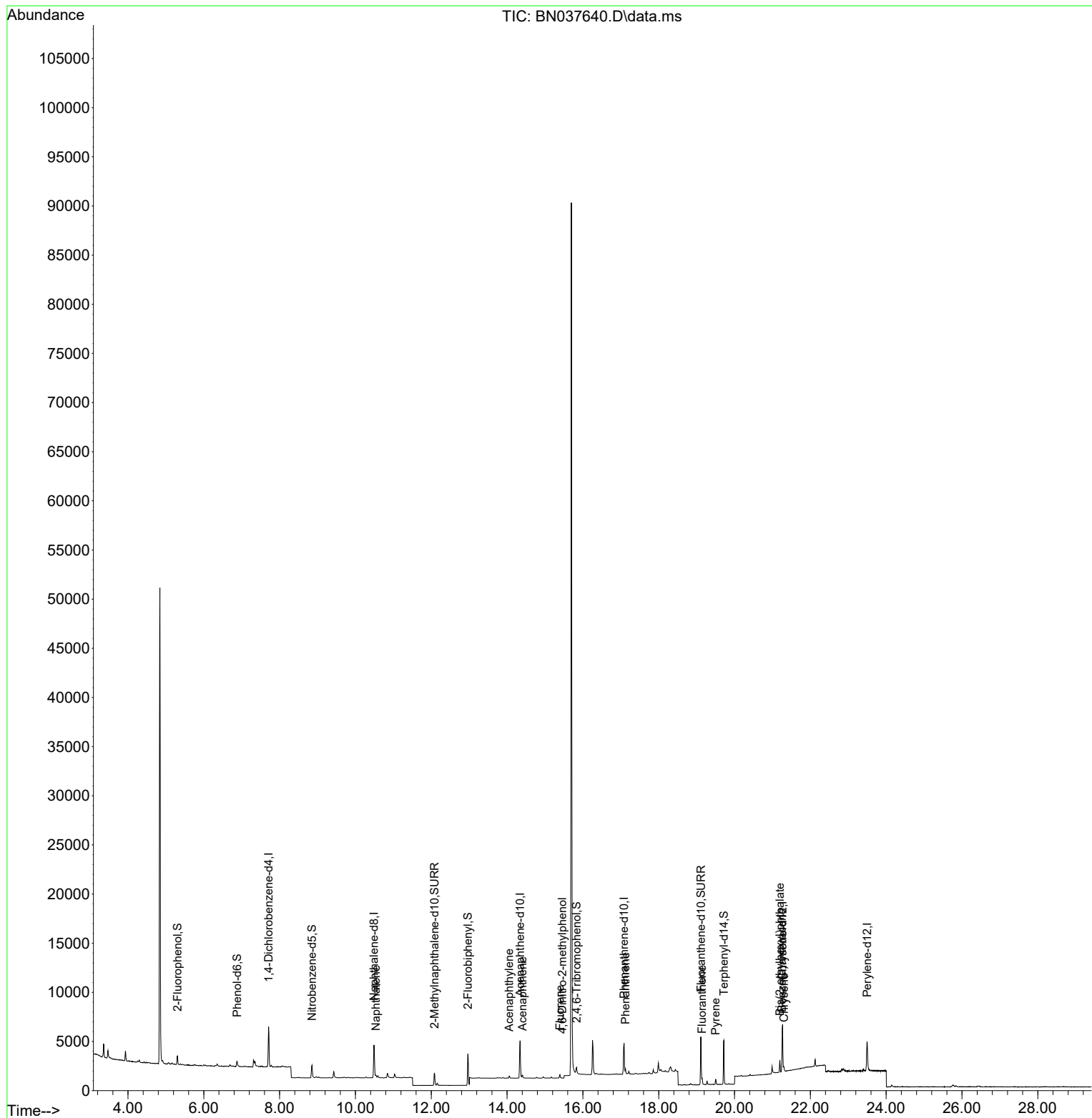
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	1993	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	4535	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	2256	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4998	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4680	0.400	ng	0.00
35) Perylene-d12	23.496	264	4140	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	725	0.160	ng	0.00
5) Phenol-d6	6.879	99	510	0.094	ng	0.00
8) Nitrobenzene-d5	8.854	82	1159	0.363	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	1790	0.290	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	391	0.396	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	3910	0.300	ng	0.00
27) Fluoranthene-d10	19.113	212	5489	0.417	ng	0.00
31) Terphenyl-d14	19.717	244	4413	0.458	ng	0.00
Target Compounds						
9) Naphthalene	10.541	128	301	0.025	ng	# 52
16) Acenaphthylene	14.056	152	259	0.026	ng	95
17) Acenaphthene	14.409	154	149	0.022	ng	94
18) Fluorene	15.393	166	216	0.024	ng	# 96
20) 4,6-Dinitro-2-methylph...	15.457	198	2	0.183	ng	# 1
25) Phenanthrene	17.124	178	540	0.036	ng	# 95
28) Fluoranthene	19.141	202	472	0.027	ng	# 78
30) Pyrene	19.503	202	481	0.027	ng	95
32) Benzo(a)anthracene	21.250	228	356	0.023	ng	# 76
33) Chrysene	21.304	228	380	0.022	ng	# 78
34) Bis(2-ethylhexyl)phtha...	21.196	149	1193	0.185	ng	99

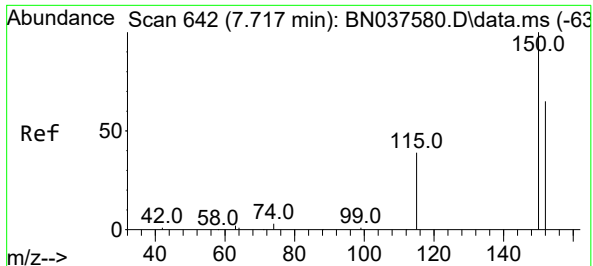
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Data File : BN037640.D
Acq On : 20 Aug 2025 21:10
Operator : RC/JU
Sample : Q2886-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

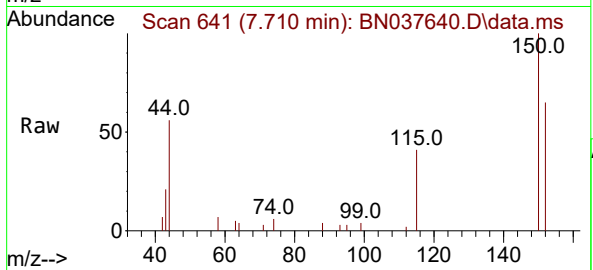
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



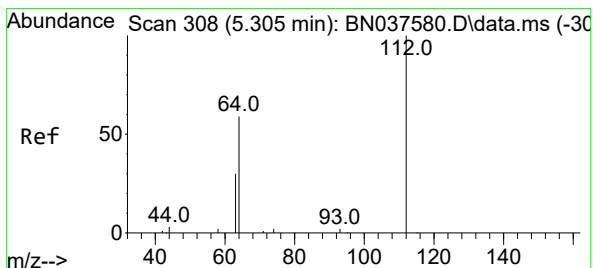
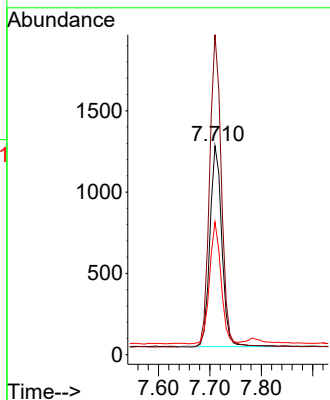
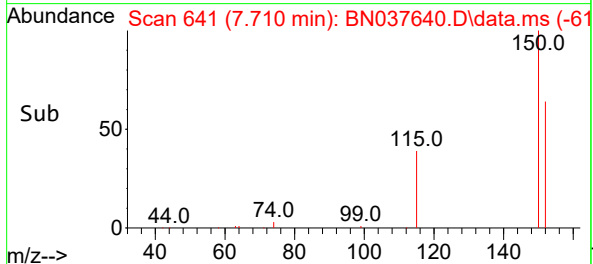


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 642
Delta R.T. -0.007 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

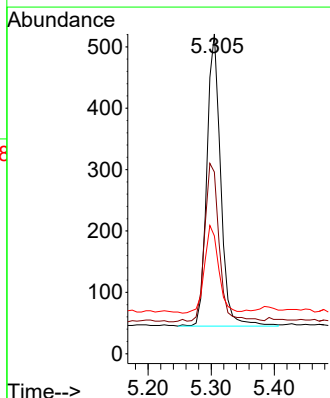
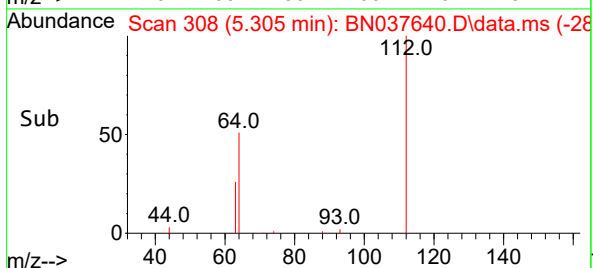
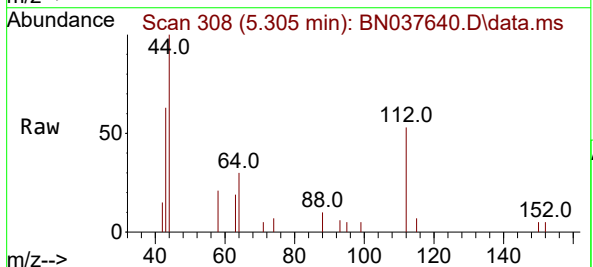


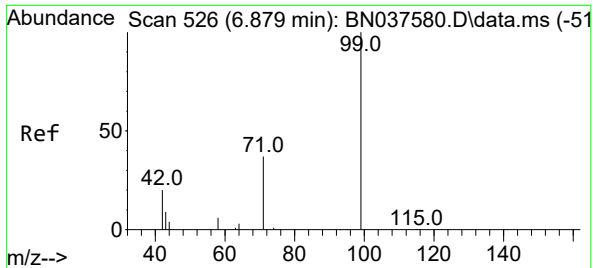
Tgt Ion:152 Resp: 1993
Ion Ratio Lower Upper
152 100
150 153.3 122.2 183.4
115 63.6 49.8 74.6



#4
2-Fluorophenol
Concen: 0.160 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion:112 Resp: 725
Ion Ratio Lower Upper
112 100
64 57.4 44.9 67.3
63 30.8 23.4 35.2

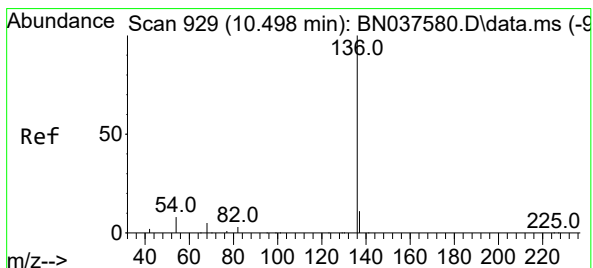
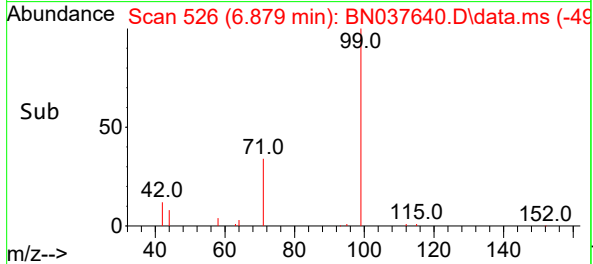
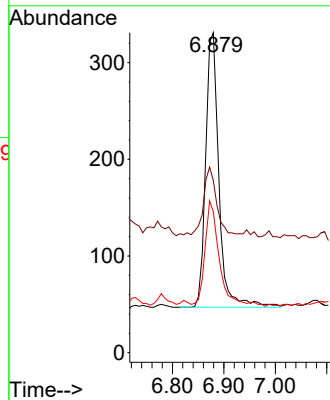
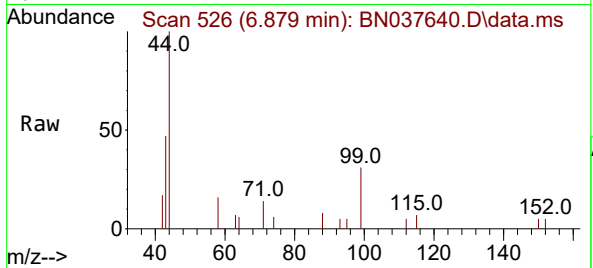




#5
Phenol-d6
Concen: 0.094 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

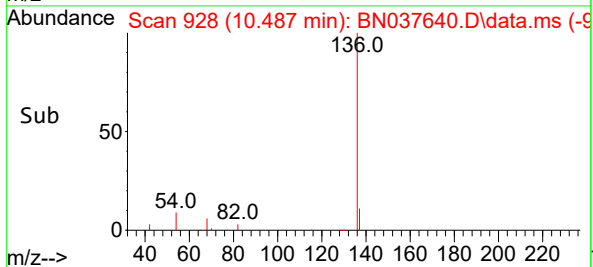
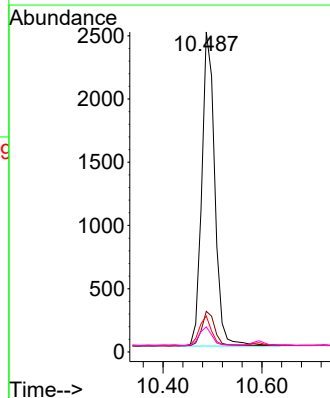
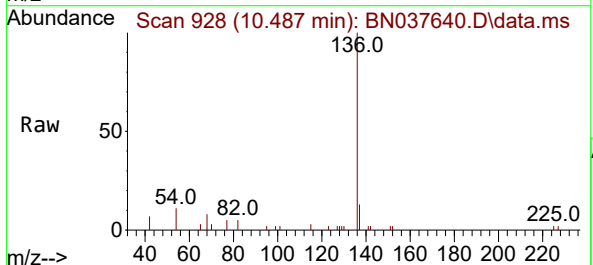
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ClientSampleId :
BP-TT182D-GW-20250814

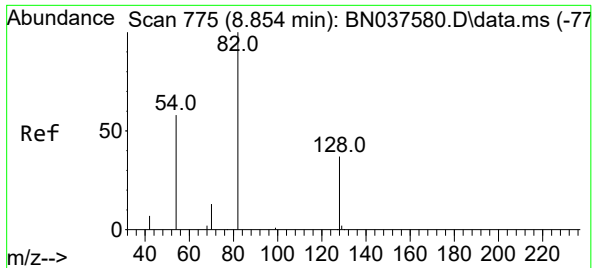
Tgt Ion	Ratio	Lower	Upper
99	100		
42	26.3	18.5	27.7
71	38.0	28.6	42.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 928
Delta R.T. -0.011 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.7	9.5	14.3
54	11.3	7.3	10.9#
68	7.8	5.1	7.7#

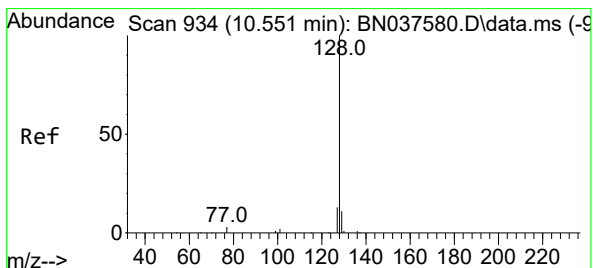
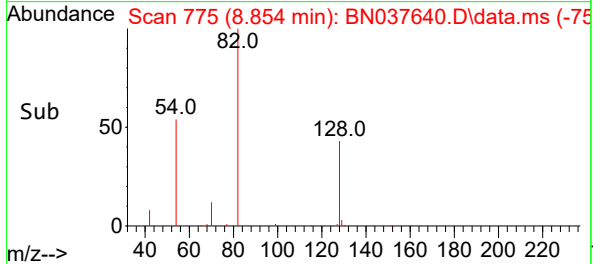
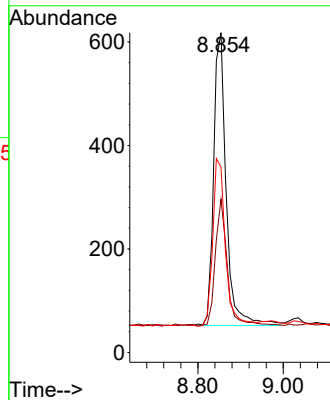
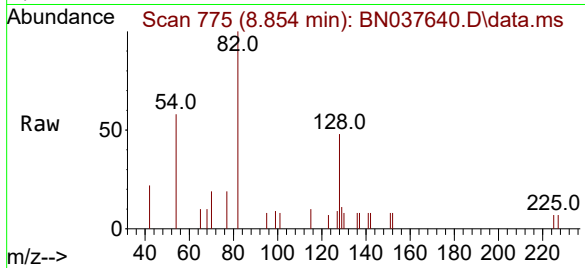




#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.854 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

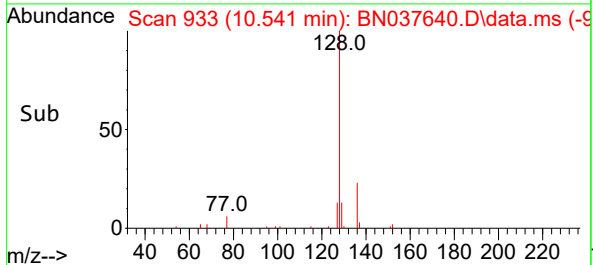
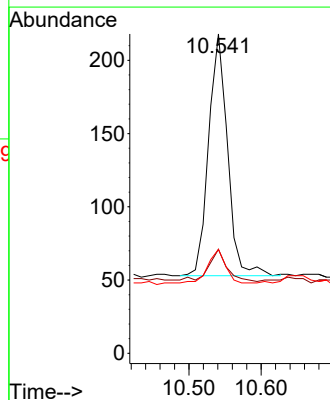
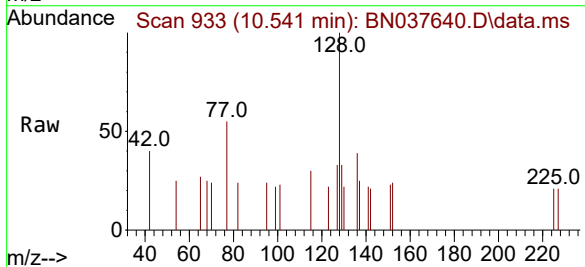
Instrument :
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ClientSampleId :
BP-TT182D-GW-20250814

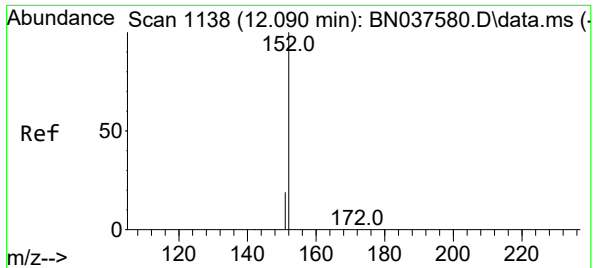
Tgt Ion:	82	Resp:	1159
Ion	Ratio	Lower	Upper
82	100		
128	47.9	32.6	48.8
54	57.9	48.9	73.3



#9
Naphthalene
Concen: 0.025 ng
RT: 10.541 min Scan# 933
Delta R.T. -0.010 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion:	128	Resp:	301
Ion	Ratio	Lower	Upper
128	100		
129	32.6	9.8	14.6#
127	32.6	11.5	17.3#

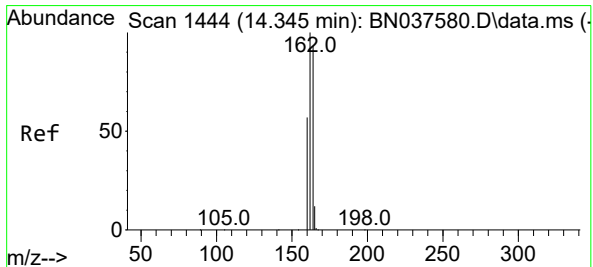
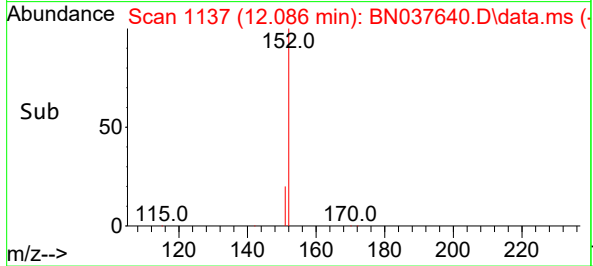
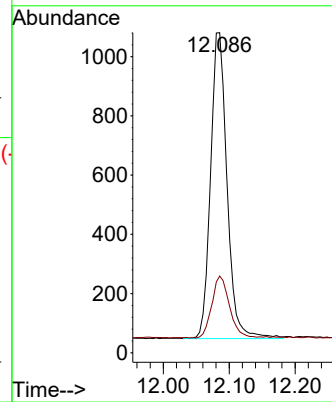
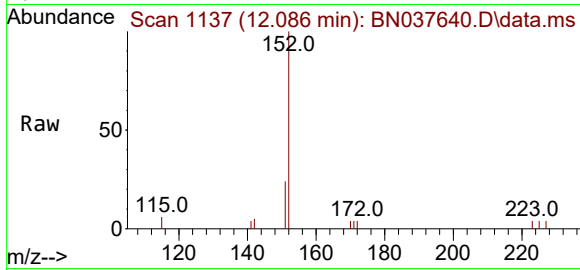




#11
2-Methylnaphthalene-d10
Concen: 0.290 ng
RT: 12.086 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

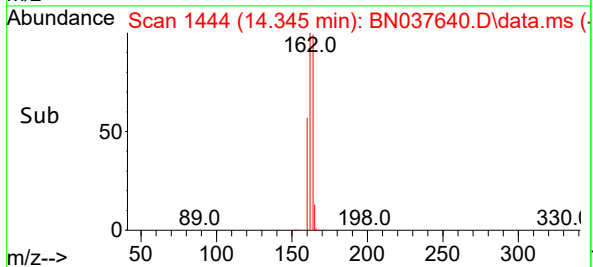
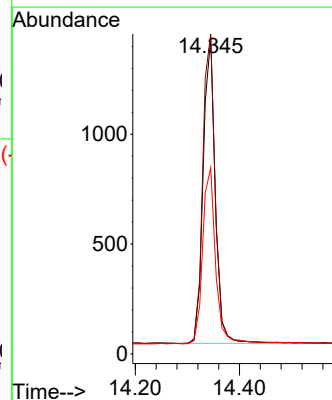
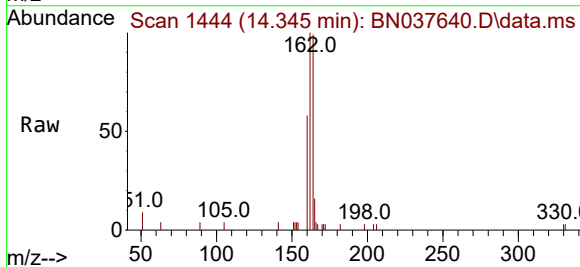
Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

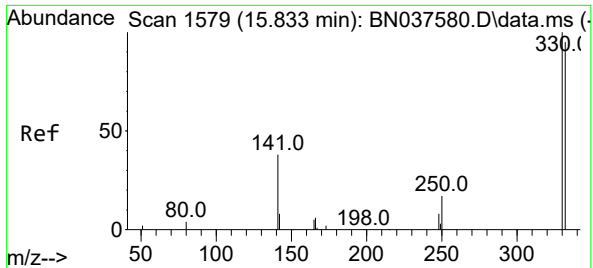
Tgt Ion:152 Resp: 1790
Ion Ratio Lower Upper
152 100
151 21.8 17.3 25.9



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion:164 Resp: 2256
Ion Ratio Lower Upper
164 100
162 101.1 85.5 128.3
160 58.8 49.5 74.3

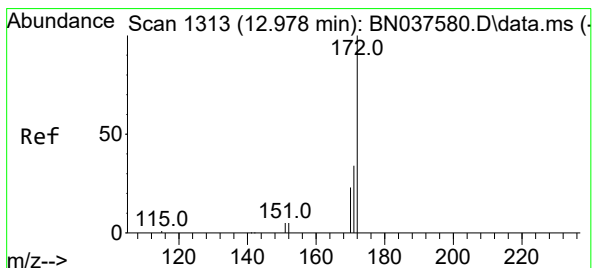
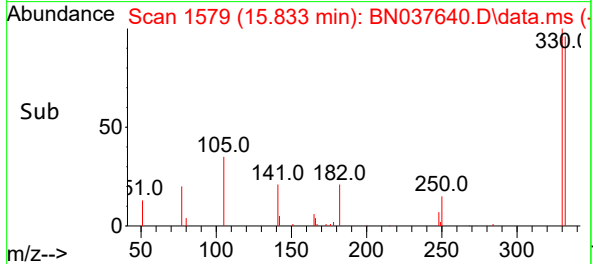
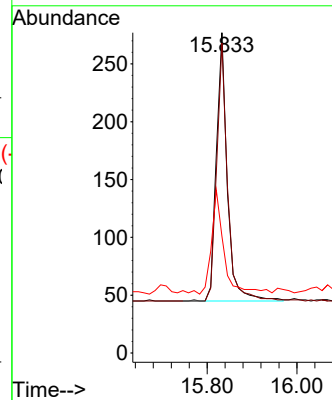
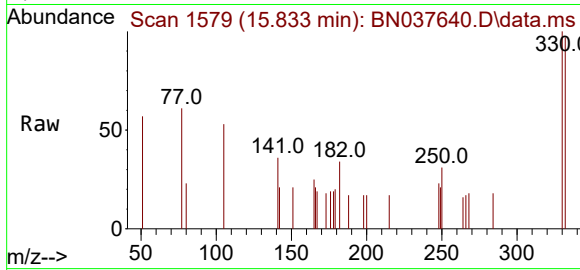




#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

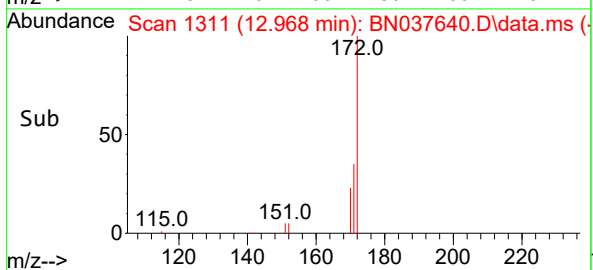
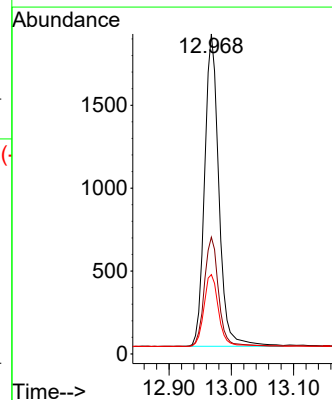
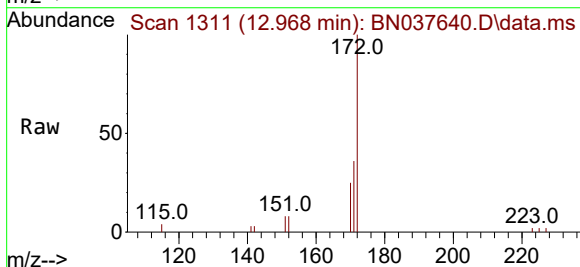
Instrument :
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ClientSampleId :
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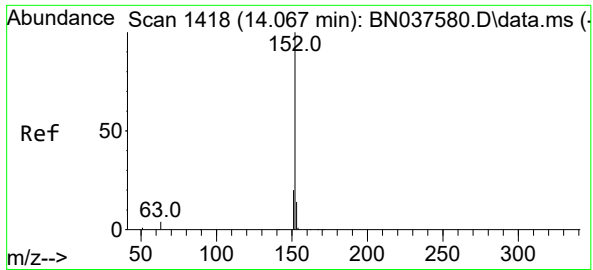
Tgt Ion	330	Ratio	100	Lower	Upper
330	100				
332	95.7		77.4	116.0	
141	41.9		30.9	46.3	



#15
2-Fluorobiphenyl
Concen: 0.300 ng
RT: 12.968 min Scan# 1311
Delta R.T. -0.010 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion	172	Ratio	100	Lower	Upper
172	100				
171	36.5		28.2	42.4	
170	24.8		19.2	28.8	

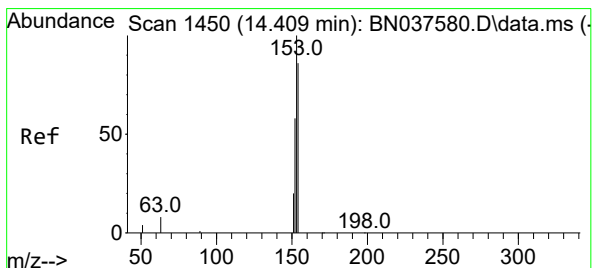
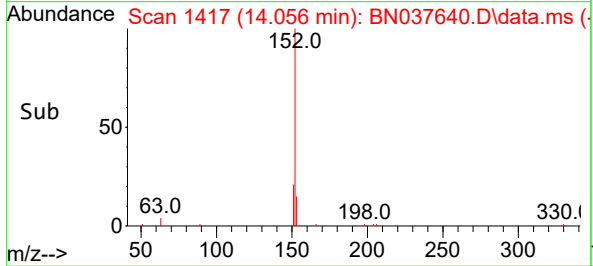
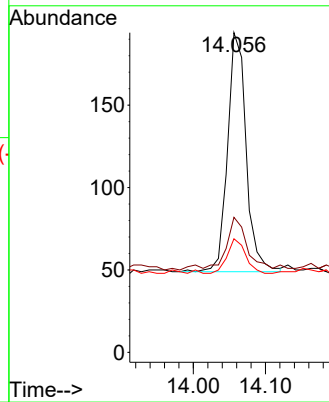
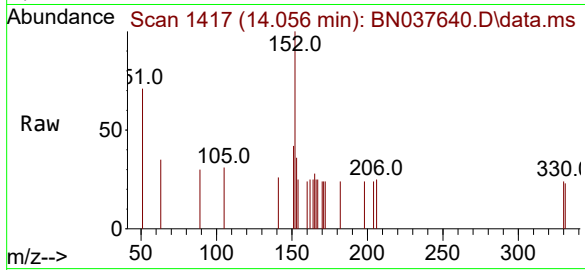




#16
Acenaphthylene
Concen: 0.026 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

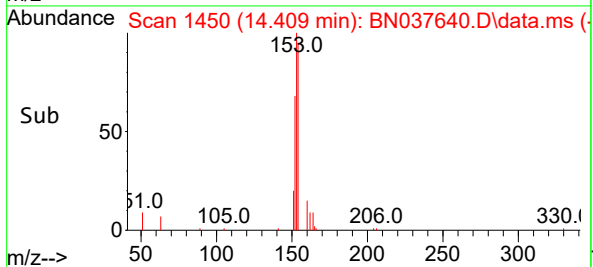
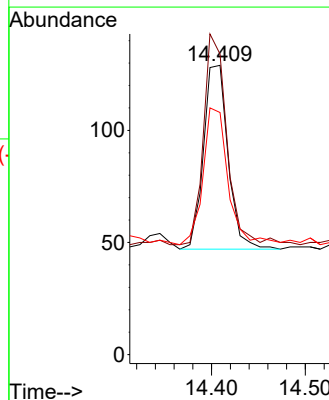
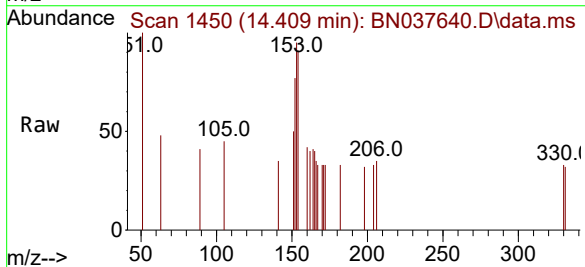
Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

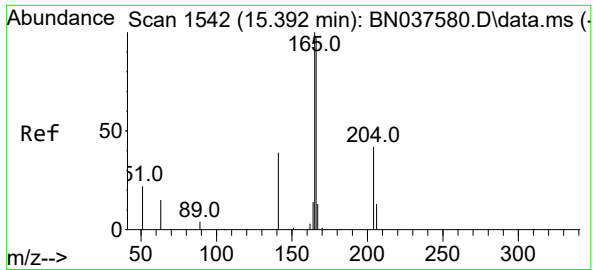
Tgt Ion:	152	Resp:	259
Ion Ratio	Lower	Upper	
152	100		
151	23.6	16.1	24.1
153	14.3	10.7	16.1



#17
Acenaphthene
Concen: 0.022 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion:	154	Resp:	149
Ion Ratio	Lower	Upper	
154	100		
153	109.4	90.6	135.8
152	76.5	54.9	82.3

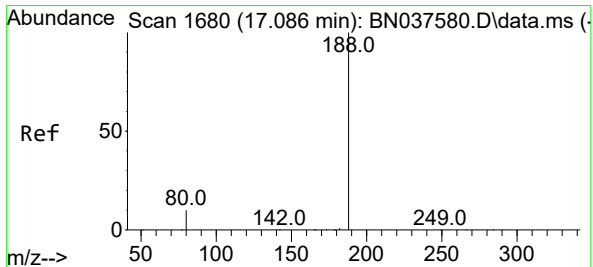
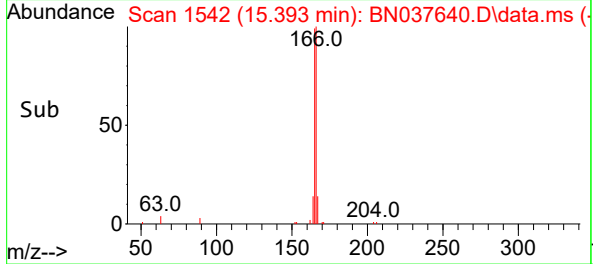
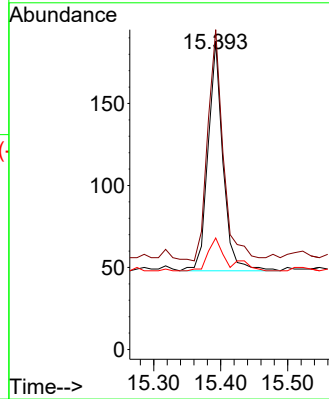
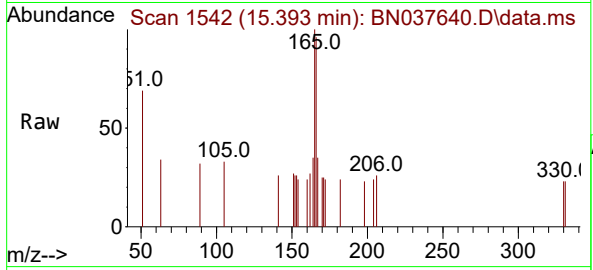




#18
Fluorene
Concen: 0.024 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

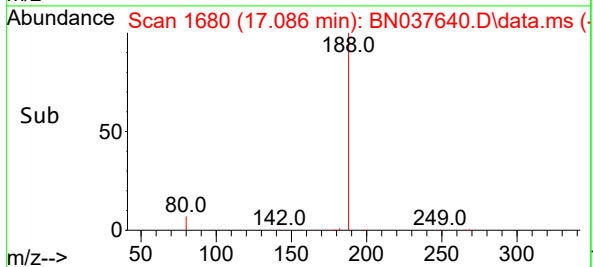
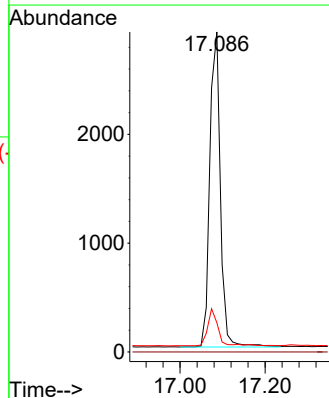
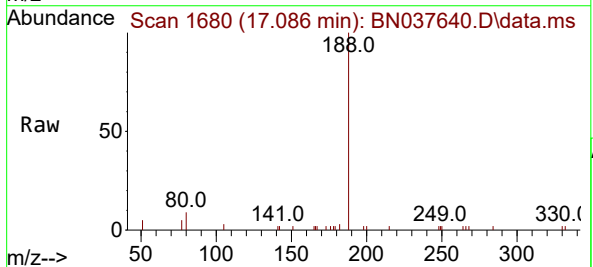
Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

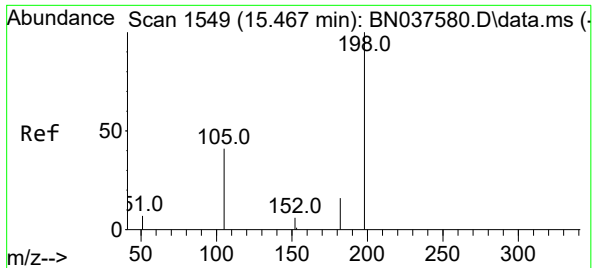
Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	78.9	118.3
167	18.1	10.7	16.1



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	9.1	13.7

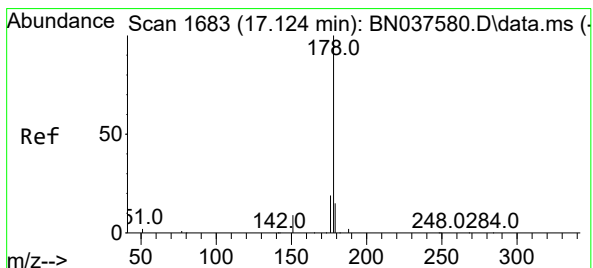
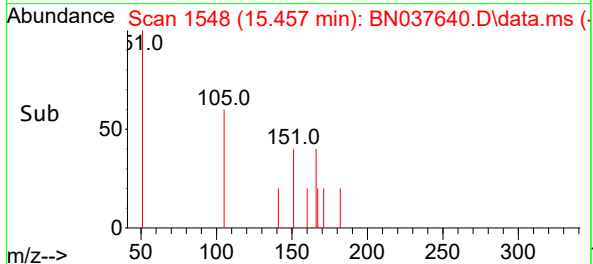
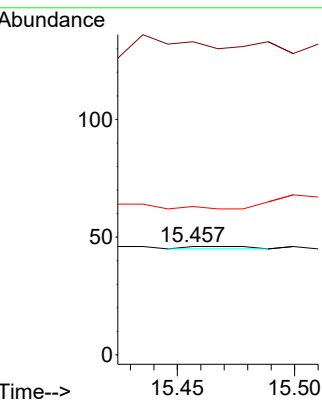
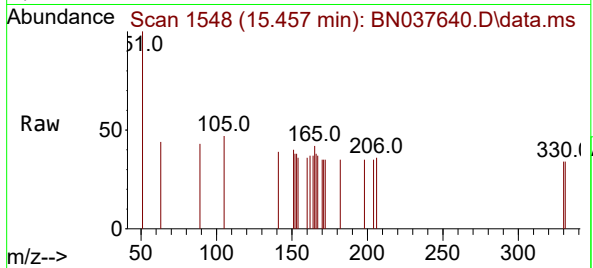




#20
4,6-Dinitro-2-methylphenol
Concen: 0.183 ng
RT: 15.457 min Scan# 1548
Delta R.T. -0.010 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

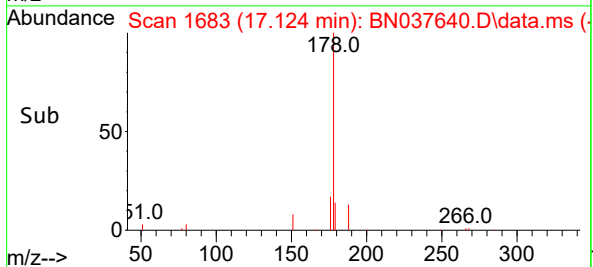
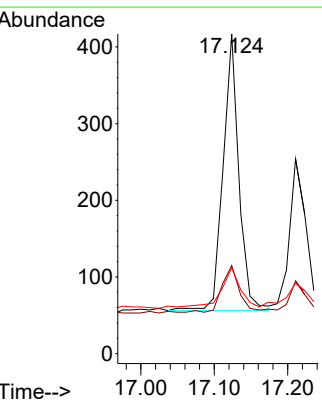
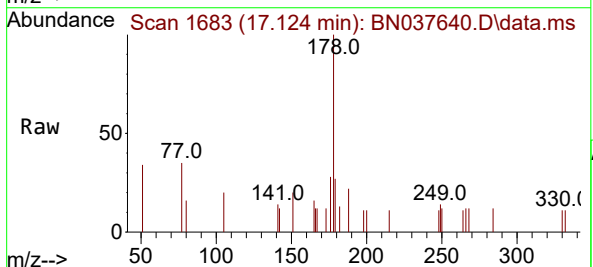
Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

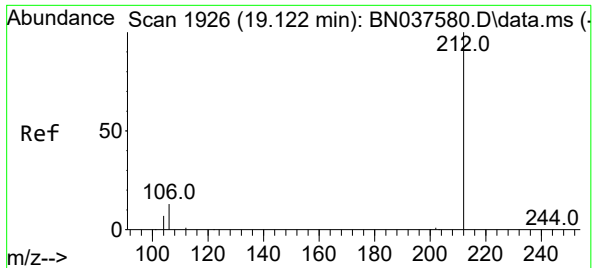
Tgt Ion:198 Resp: 2
Ion Ratio Lower Upper
198 100
51 289.1 81.0 121.6#
105 137.0 52.5 78.7#



#25
Phenanthrene
Concen: 0.036 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion:178 Resp: 540
Ion Ratio Lower Upper
178 100
176 20.0 15.0 22.6
179 19.1 12.3 18.5#

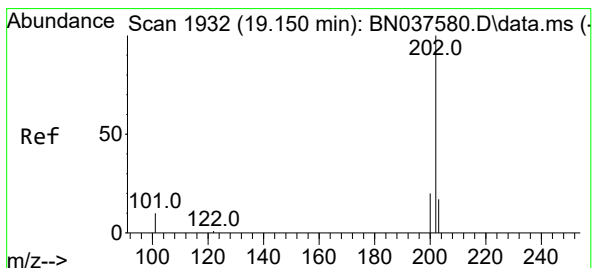
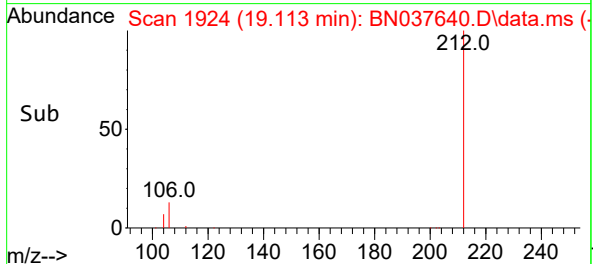
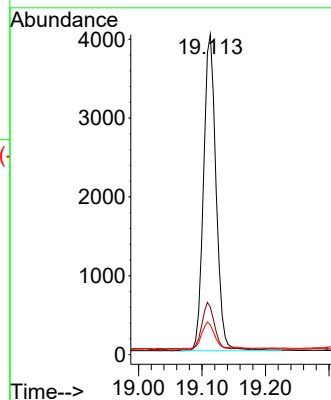
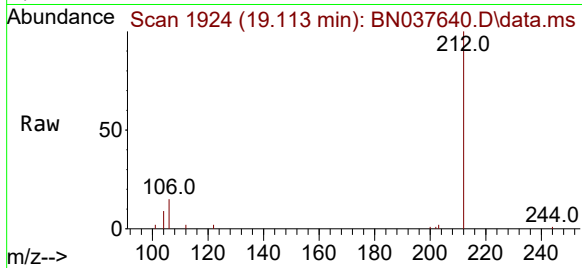




#27
Fluoranthene-d10
Concen: 0.417 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.009 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

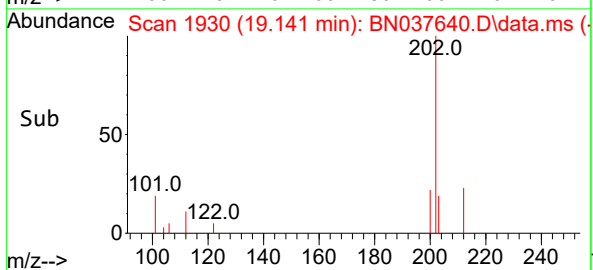
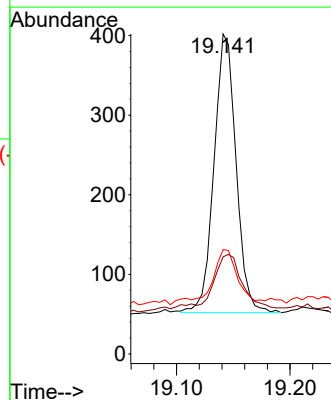
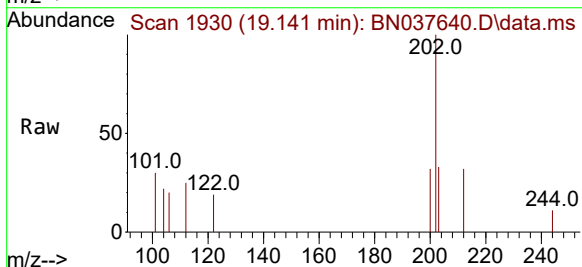
Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

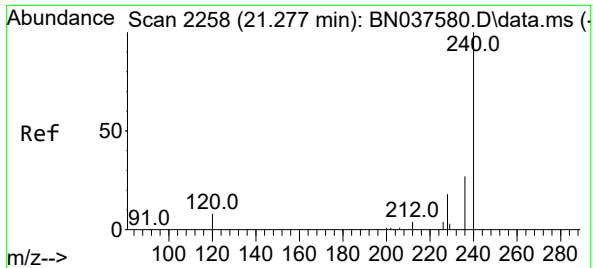
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.6	11.5	17.3
104	8.5	6.6	9.8



#28
Fluoranthene
Concen: 0.027 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	31.1	9.0	13.6#
203	18.6	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037640.D

Acq: 20 Aug 2025 21:10

Instrument :

BNA_N

ClientSampleId :

BP-TT182D-GW-20250814

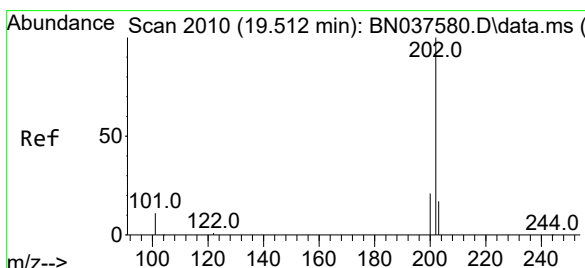
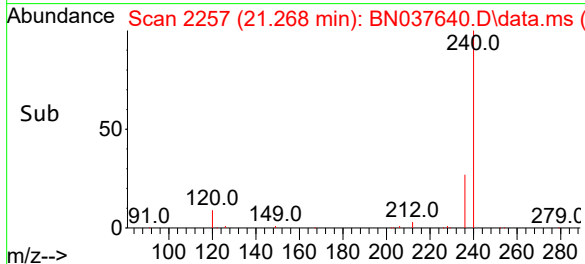
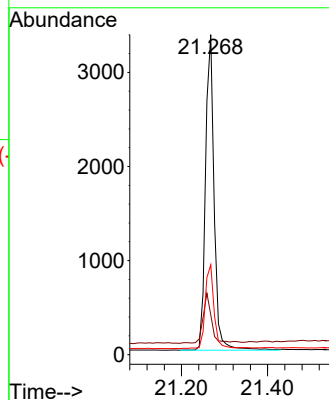
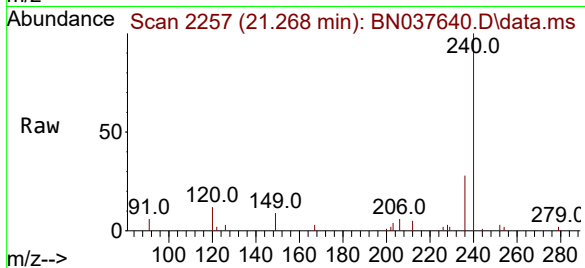
Tgt Ion:240 Resp: 4680

Ion Ratio Lower Upper

240 100

120 12.4 8.9 13.3

236 28.1 22.6 33.8



#30

Pyrene

Concen: 0.027 ng

RT: 19.503 min Scan# 2008

Delta R.T. -0.009 min

Lab File: BN037640.D

Acq: 20 Aug 2025 21:10

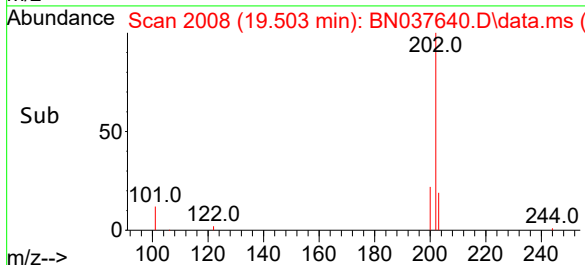
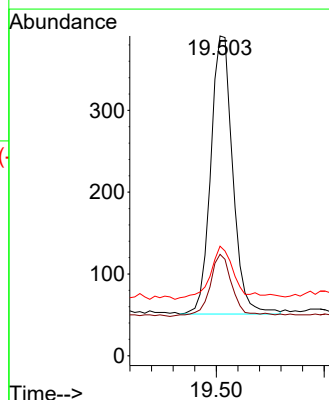
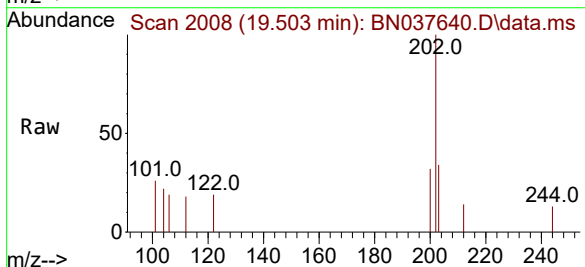
Tgt Ion:202 Resp: 481

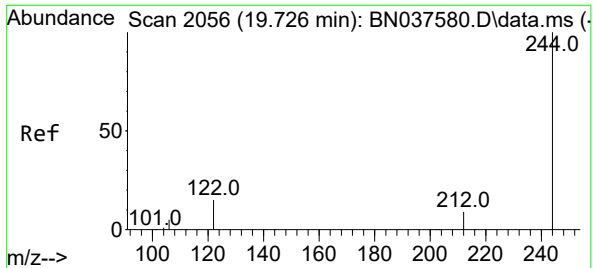
Ion Ratio Lower Upper

202 100

200 23.1 16.6 25.0

203 20.0 14.3 21.5

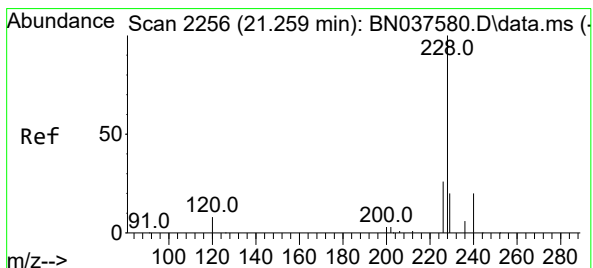
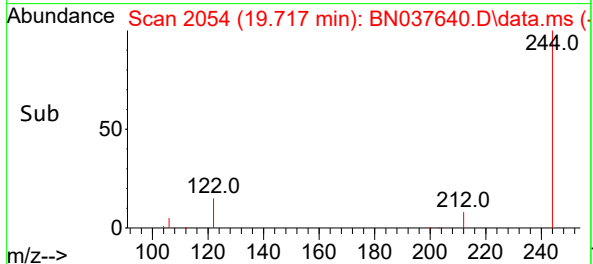
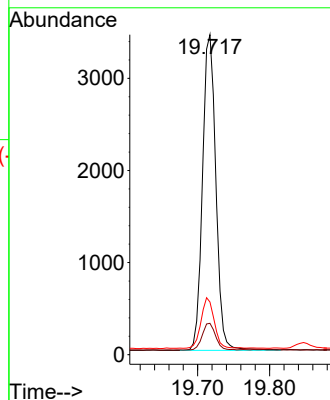
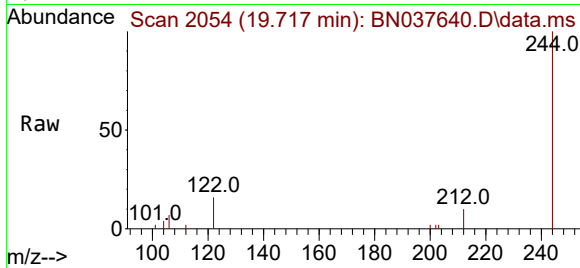




#31
Terphenyl-d14
Concen: 0.458 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

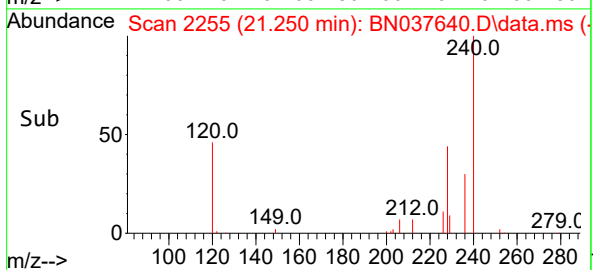
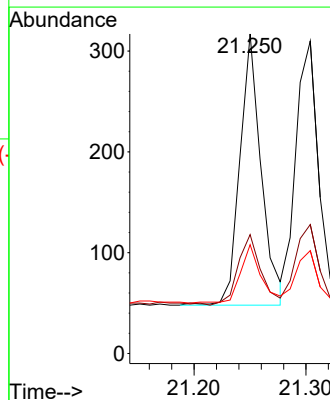
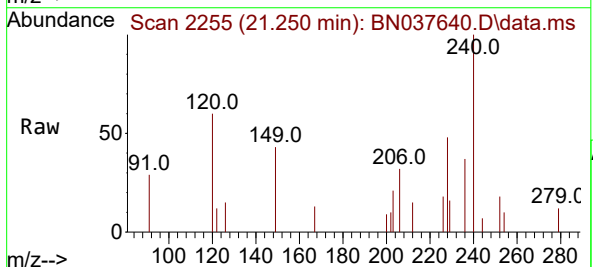
Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814

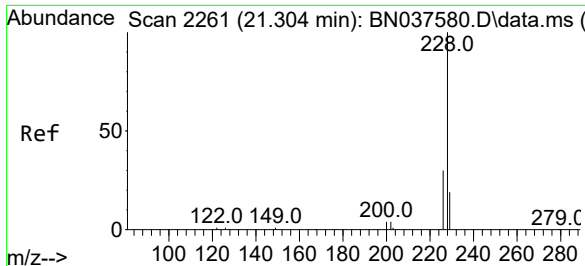
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.8	8.2	12.2
122	16.5	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.023 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.2	21.5	32.3#
229	34.1	16.5	24.7#





#33

Chrysene

Concen: 0.022 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037640.D

Acq: 20 Aug 2025 21:10

Instrument :

BNA_N

ClientSampleId :

BP-TT182D-GW-20250814

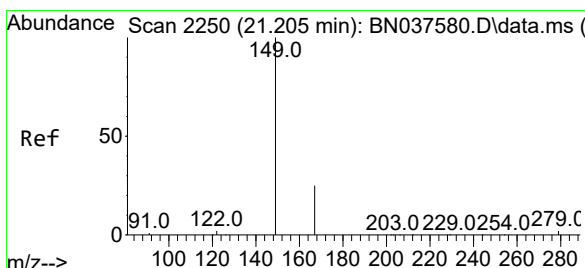
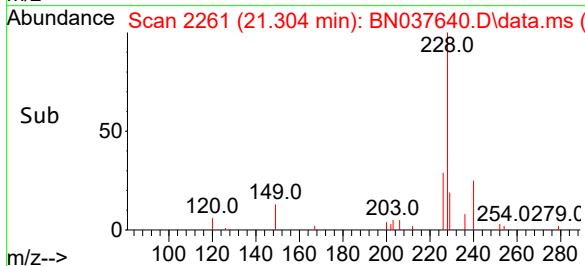
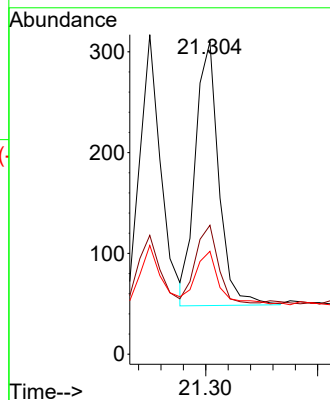
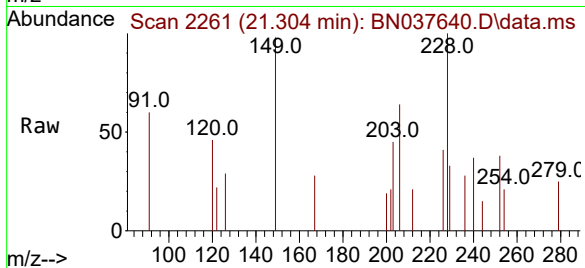
Tgt Ion:228 Resp: 380

Ion Ratio Lower Upper

228 100

226 41.3 24.9 37.3#

229 32.9 15.8 23.8#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.185 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037640.D

Acq: 20 Aug 2025 21:10

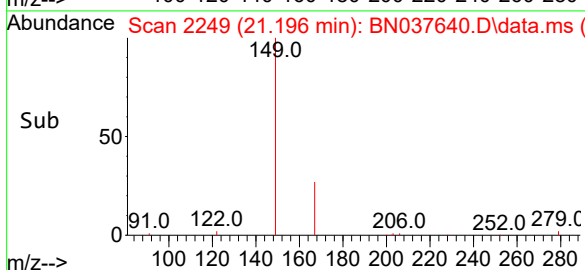
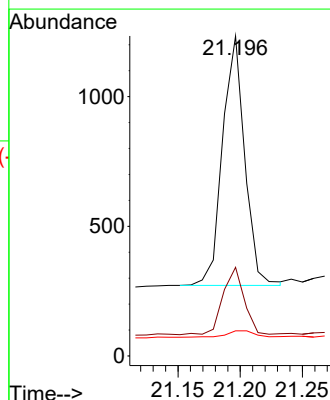
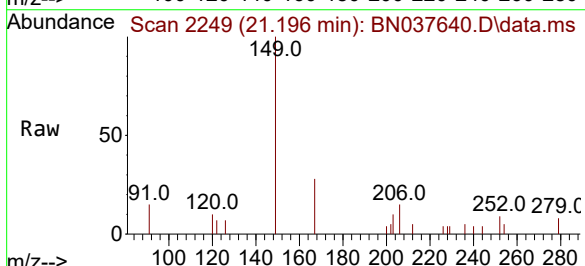
Tgt Ion:149 Resp: 1193

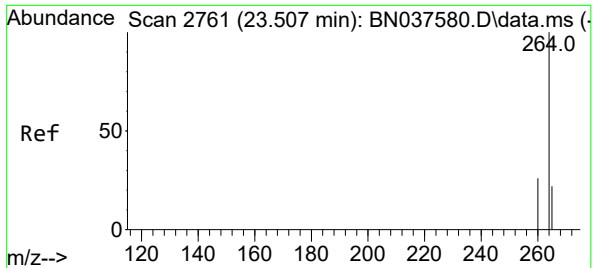
Ion Ratio Lower Upper

149 100

167 26.1 20.5 30.7

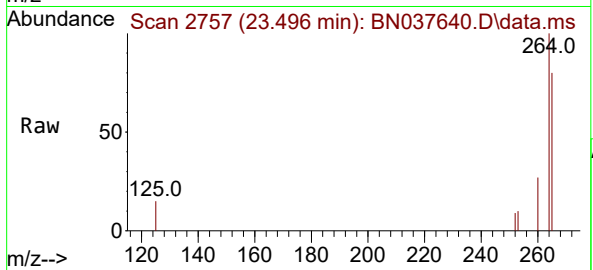
279 3.4 2.6 4.0



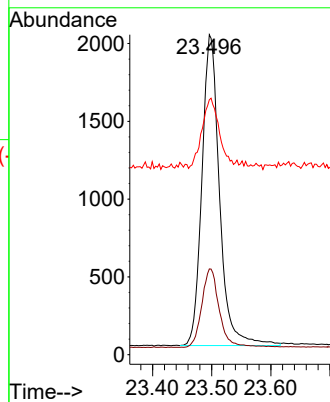
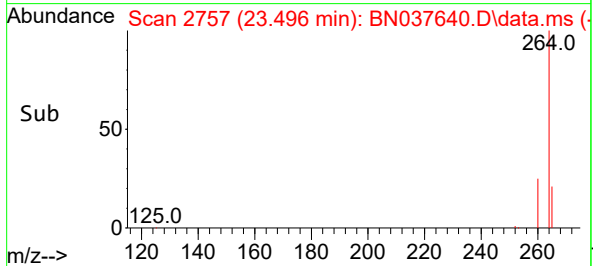


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.496 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037640.D
Acq: 20 Aug 2025 21:10

Instrument :
BNA_N
ClientSampleId :
BP-TT182D-GW-20250814



Tgt Ion:264 Resp: 4140
Ion Ratio Lower Upper
264 100
260 26.8 21.6 32.4
265 79.6 48.2 72.4#





CALIBRATION SUMMARY

- 1
- 2
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- 17

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

Calibration Files

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

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

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

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

Method File : 8270-SIM-BN081225.M

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

(#) = Out of Range

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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

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

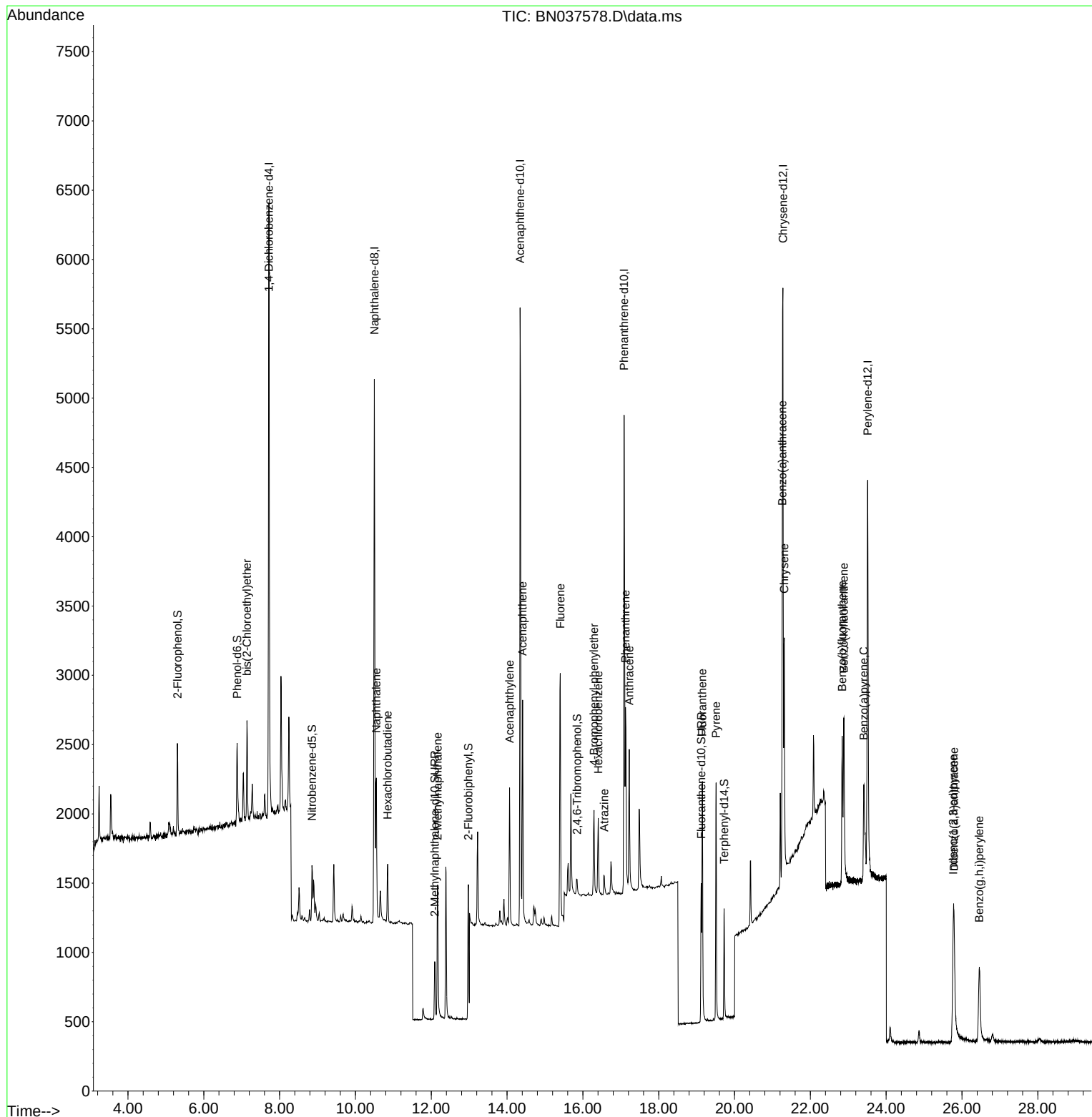
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2217	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5472	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2625	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5296	0.400	ng	0.00
29) Chrysene-d12	21.277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

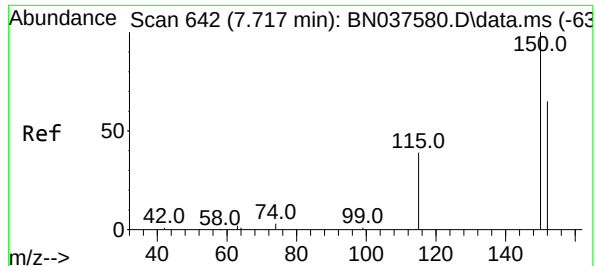
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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

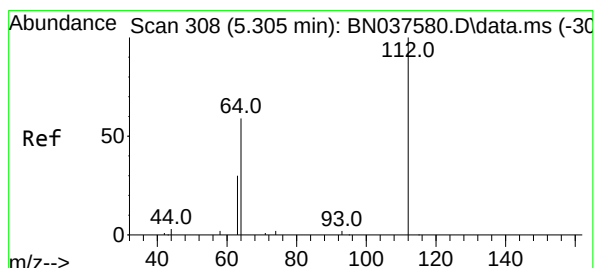
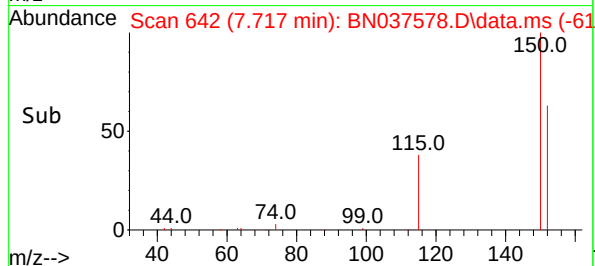
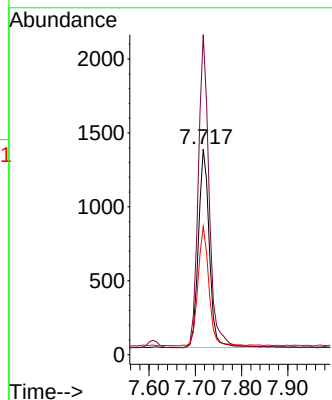
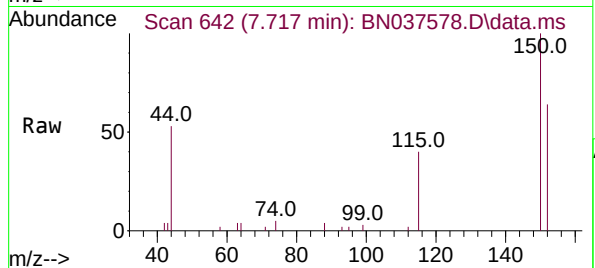




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 642
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

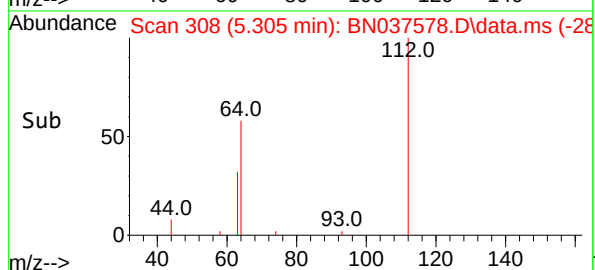
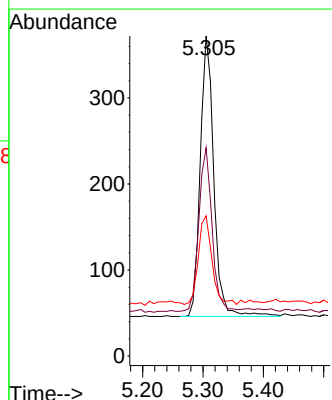
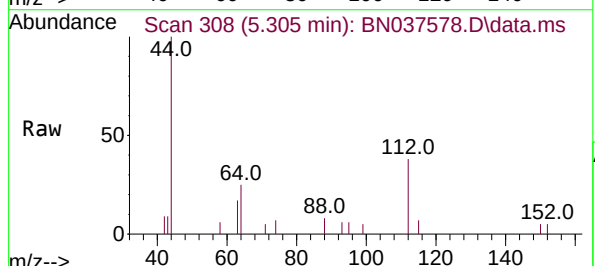
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

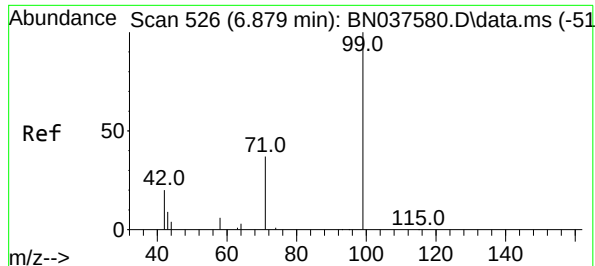
Tgt Ion:152 Resp: 2217
Ion Ratio Lower Upper
152 100
150 155.6 122.2 183.4
115 62.3 49.8 74.6



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

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





#5

Phenol-d6

Concen: 0.096 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

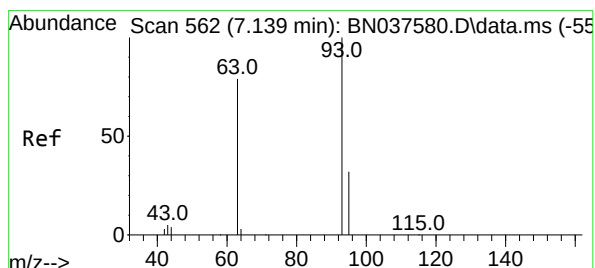
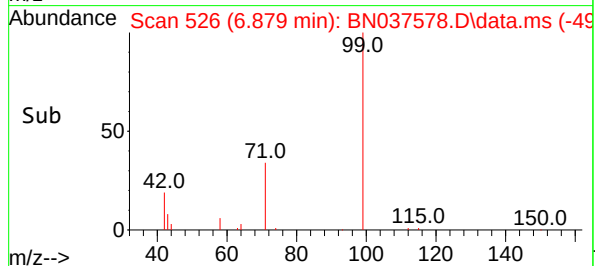
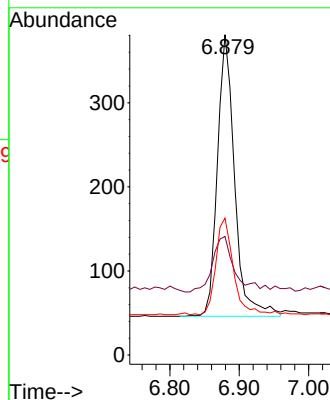
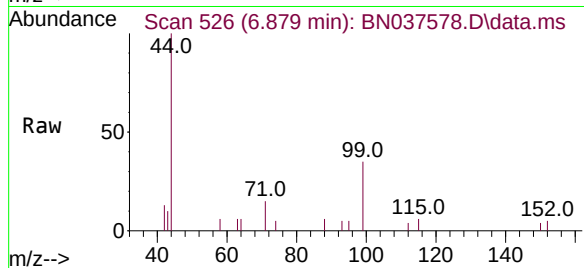
Tgt Ion: 99 Resp: 579

Ion Ratio Lower Upper

99 100

42 26.9 18.5 27.7

71 35.4 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.095 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

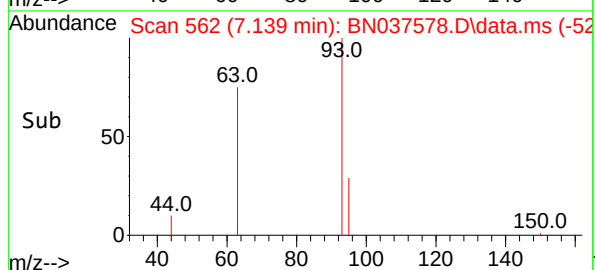
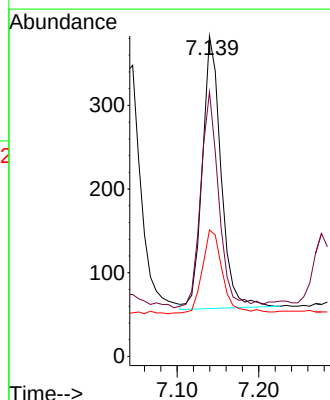
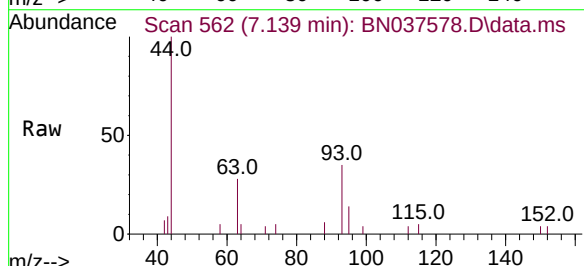
Tgt Ion: 93 Resp: 518

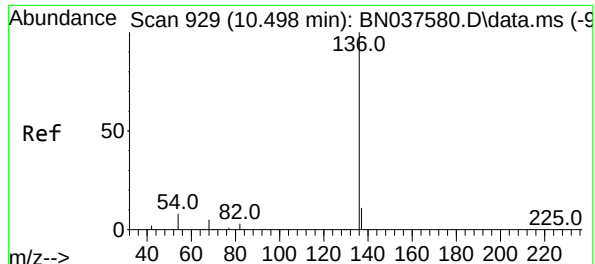
Ion Ratio Lower Upper

93 100

63 78.0 58.0 87.0

95 33.8 24.9 37.3

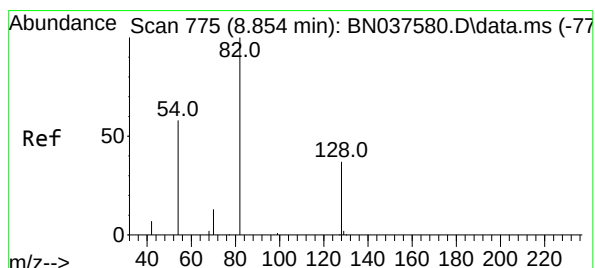
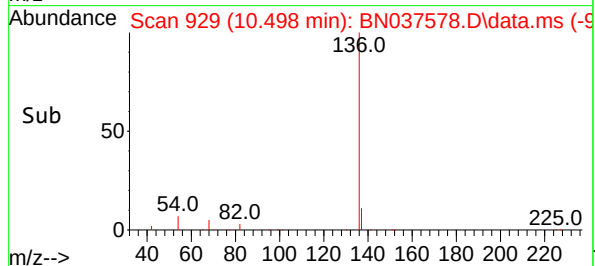
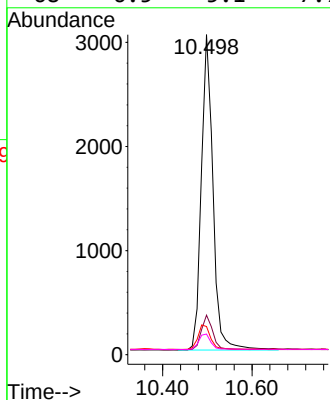
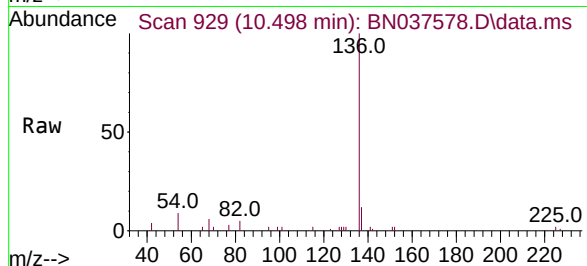




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

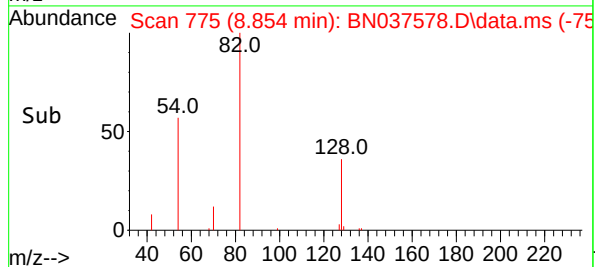
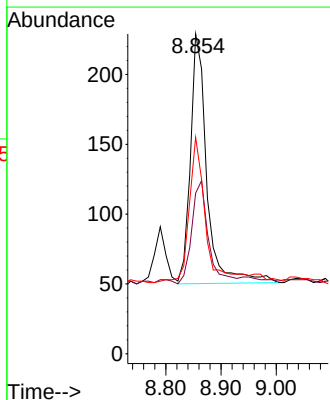
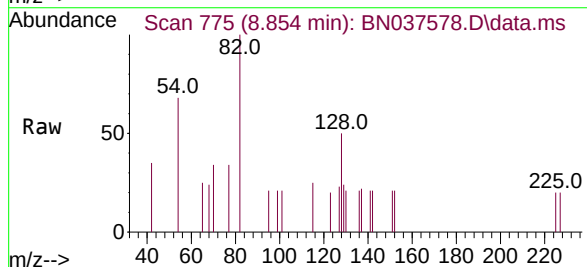
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

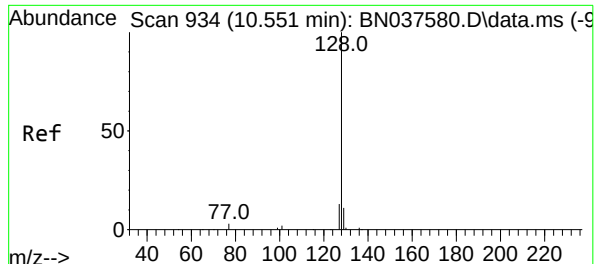
Tgt Ion:	136	Resp:	5472
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.5	14.3
54	8.8	7.3	10.9
68	6.5	5.1	7.7



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

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

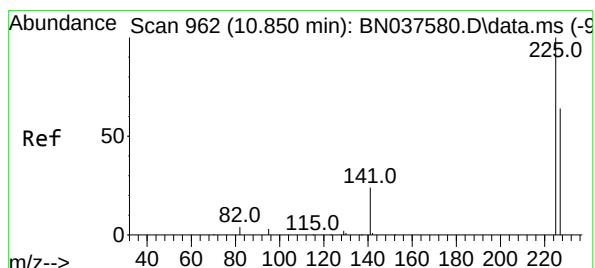
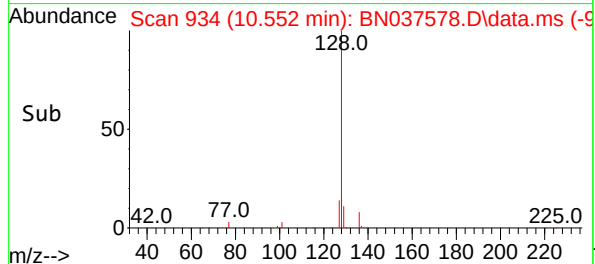
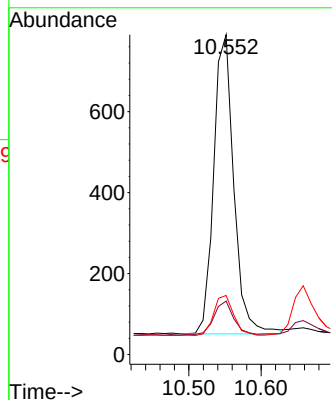
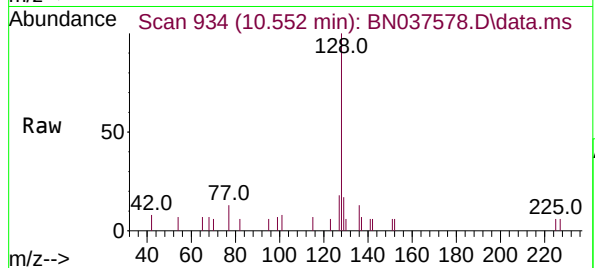




#9
Naphthalene
Concen: 0.098 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

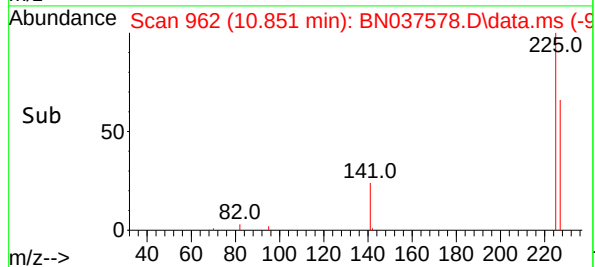
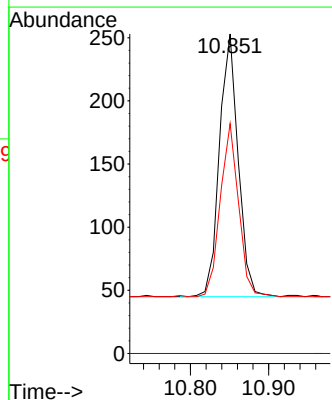
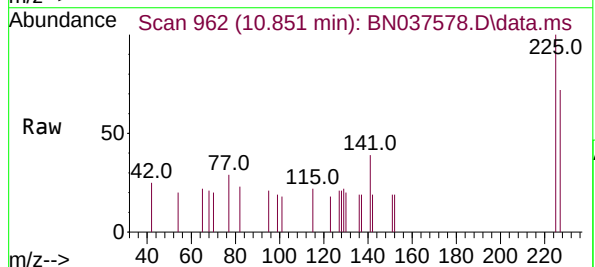
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

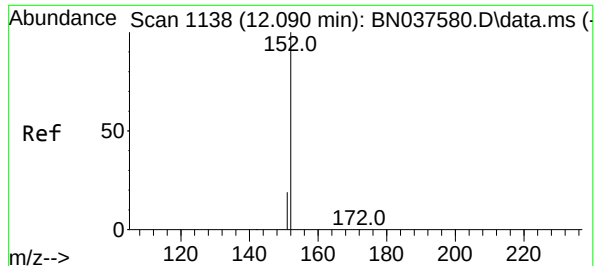
Tgt Ion:128 Resp: 1428
Ion Ratio Lower Upper
128 100
129 16.7 9.8 14.6#
127 18.5 11.5 17.3#



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

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

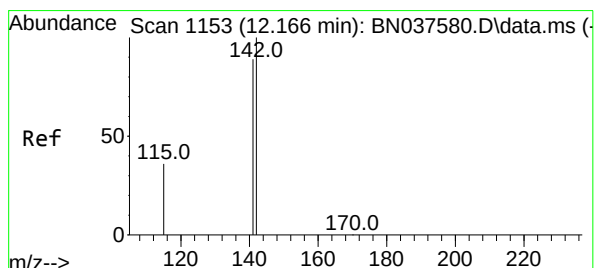
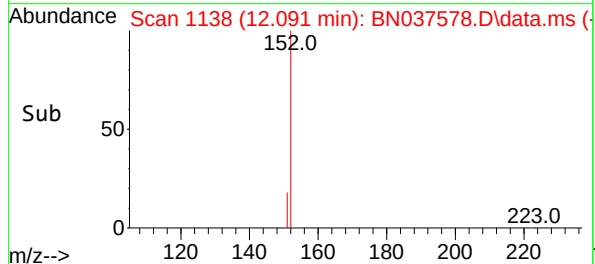
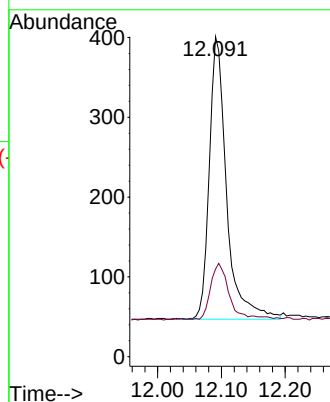
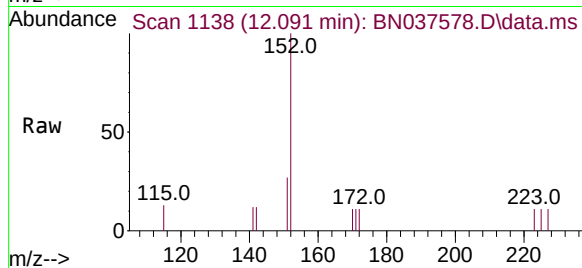




#11
2-Methylnaphthalene-d10
Concen: 0.090 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

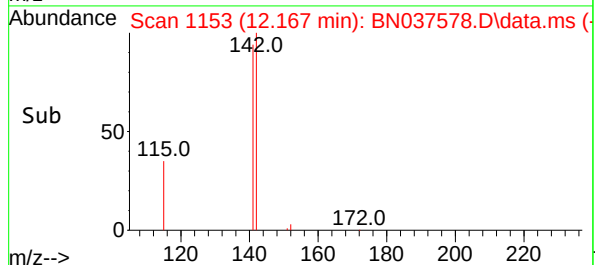
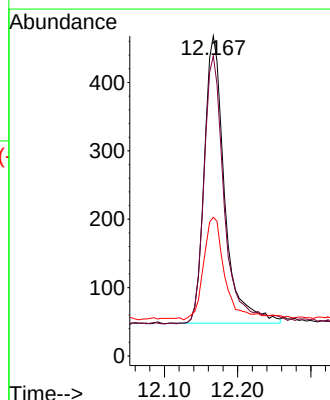
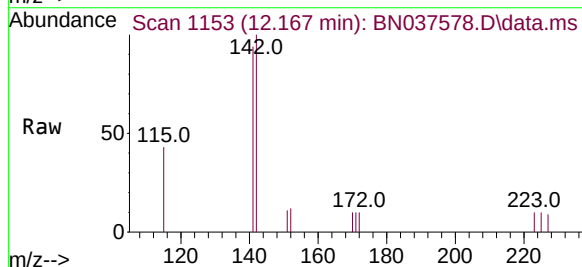
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

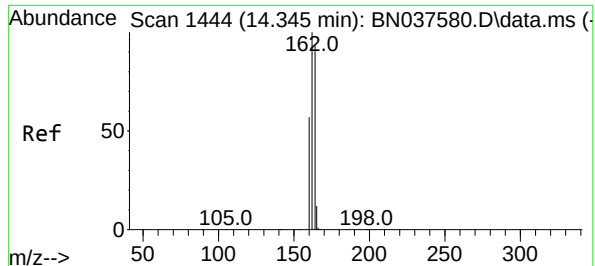
Tgt Ion:152 Resp: 667
Ion Ratio Lower Upper
152 100
151 21.1 17.3 25.9



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

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

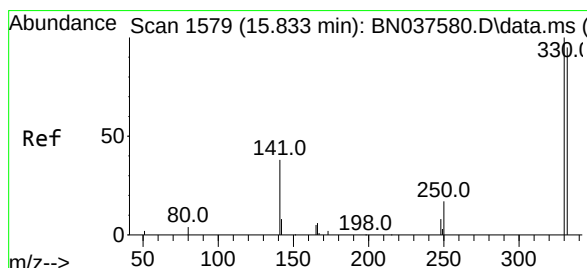
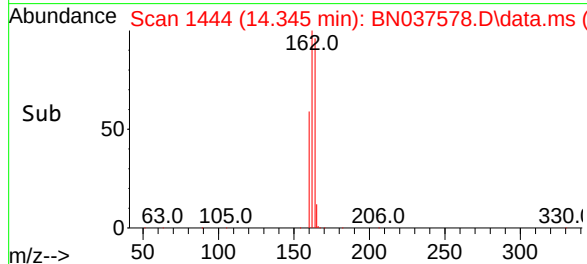
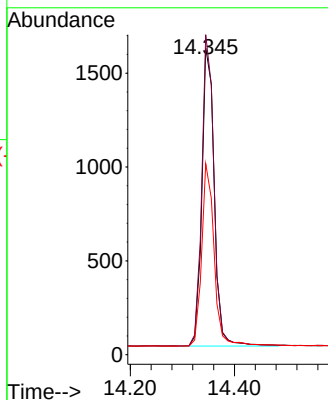
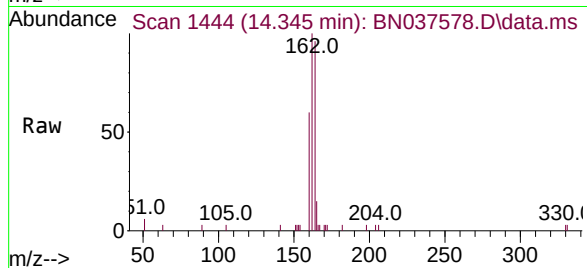




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

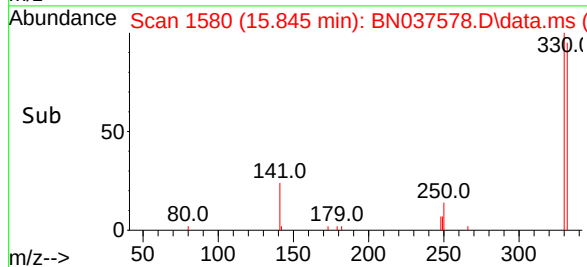
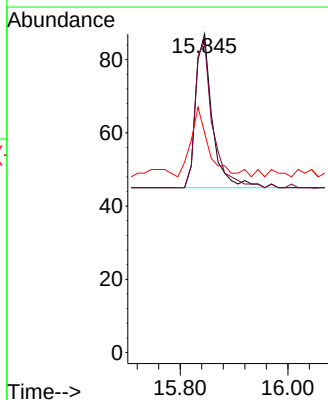
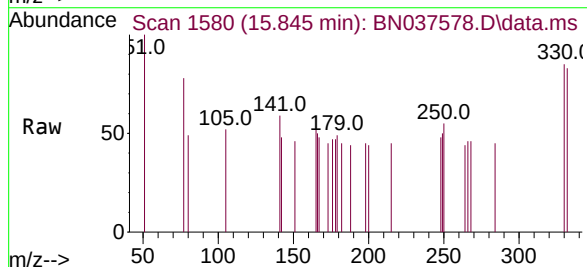
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

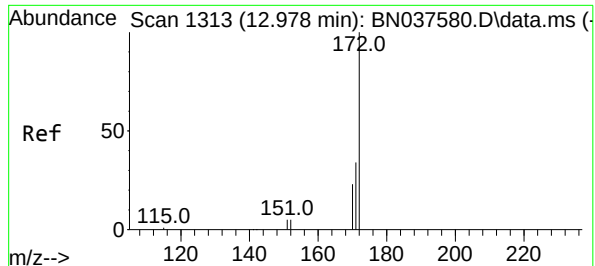
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	85.5	128.3
160	62.3	49.5	74.3



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

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.1	77.4	116.0
141	47.3	30.9	46.3





#15

2-Fluorobiphenyl

Concen: 0.096 ng

RT: 12.978 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

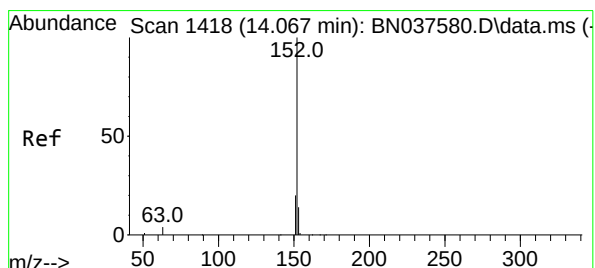
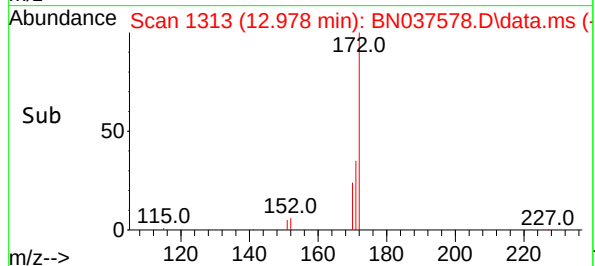
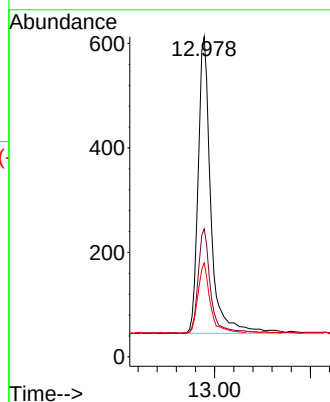
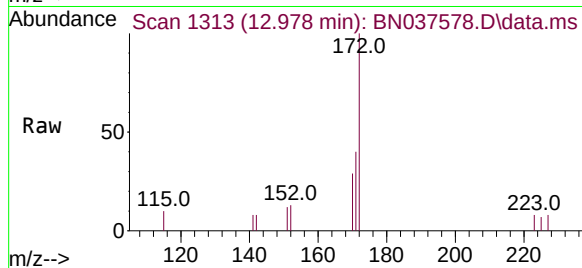
Tgt Ion:172 Resp: 1461

Ion Ratio Lower Upper

172 100

171 40.0 28.2 42.4

170 29.4 19.2 28.8#



#16

Acenaphthylene

Concen: 0.097 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

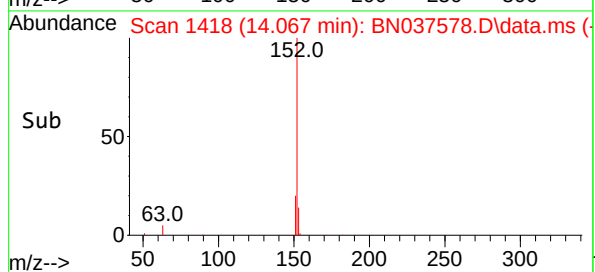
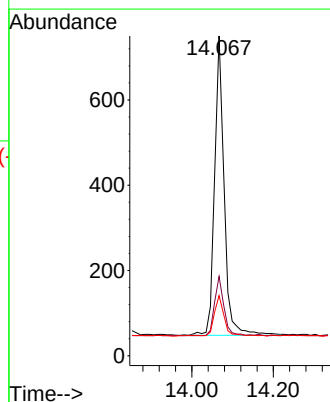
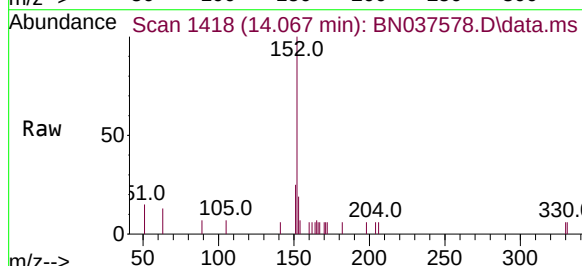
Tgt Ion:152 Resp: 1142

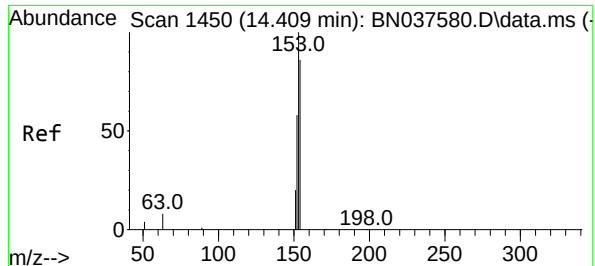
Ion Ratio Lower Upper

152 100

151 19.5 16.1 24.1

153 13.6 10.7 16.1





#17

Acenaphthene

Concen: 0.094 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

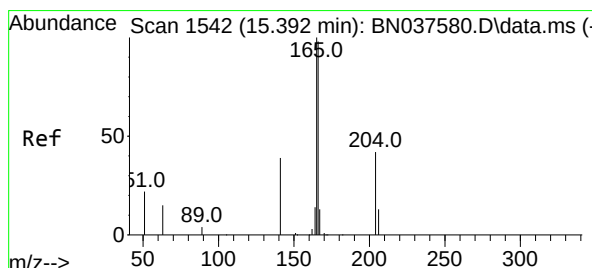
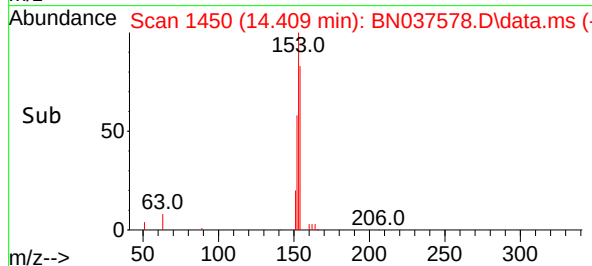
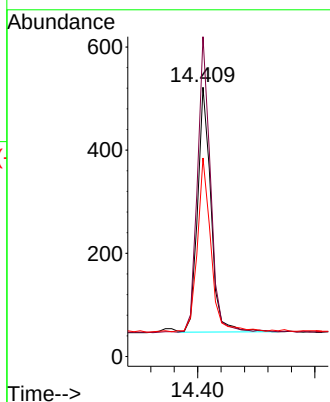
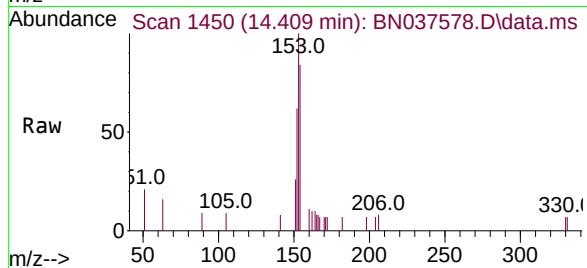
Tgt Ion:154 Resp: 751

Ion Ratio Lower Upper

154 100

153 118.8 90.6 135.8

152 71.6 54.9 82.3



#18

Fluorene

Concen: 0.092 ng

RT: 15.403 min Scan# 1543

Delta R.T. 0.011 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

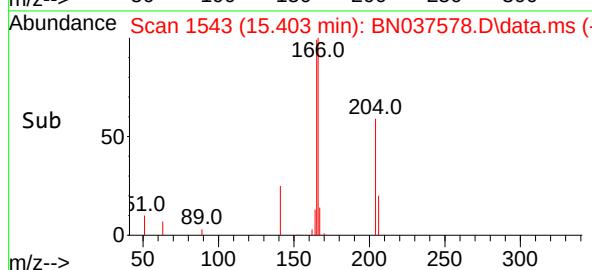
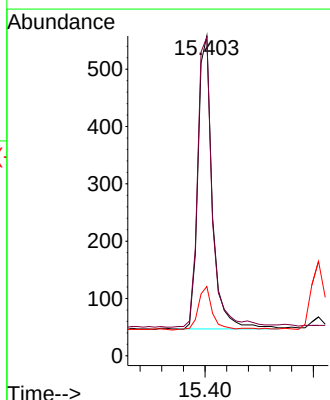
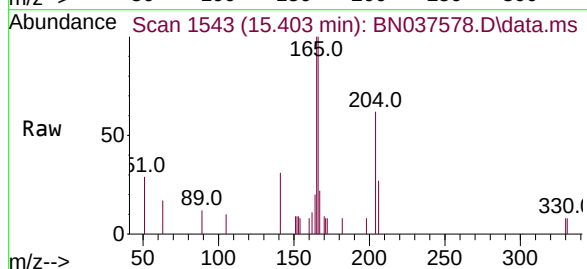
Tgt Ion:166 Resp: 962

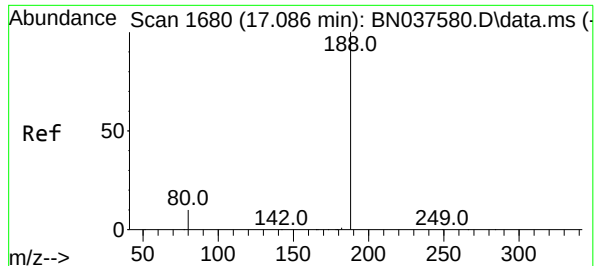
Ion Ratio Lower Upper

166 100

165 99.8 78.9 118.3

167 14.2 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

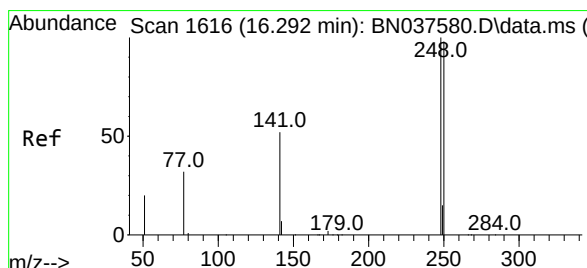
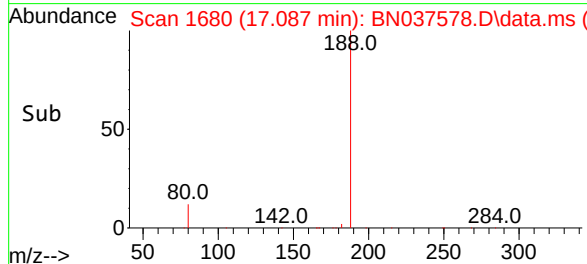
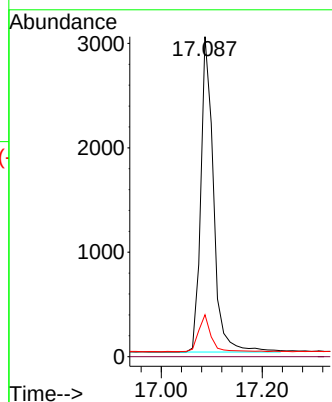
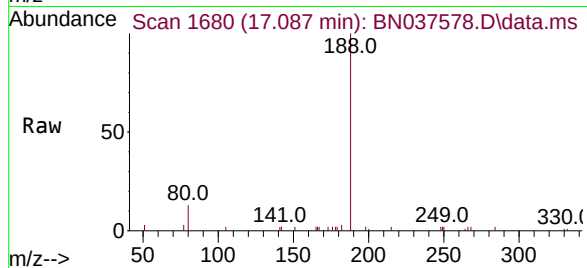
Tgt Ion:188 Resp: 5296

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 0.090 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

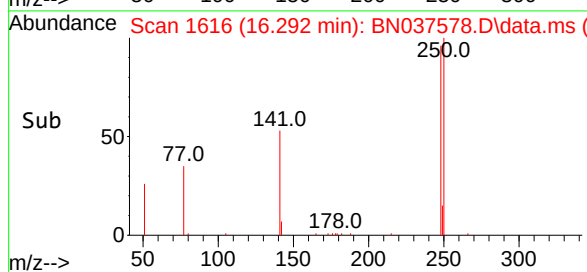
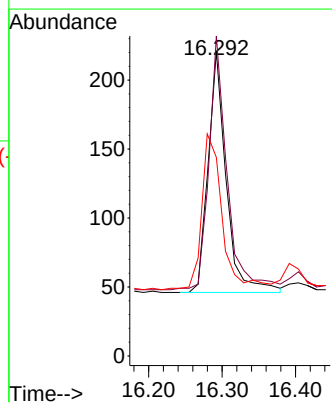
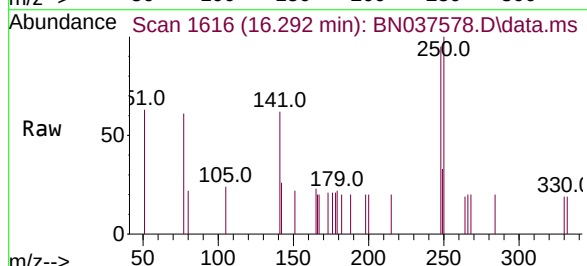
Tgt Ion:248 Resp: 299

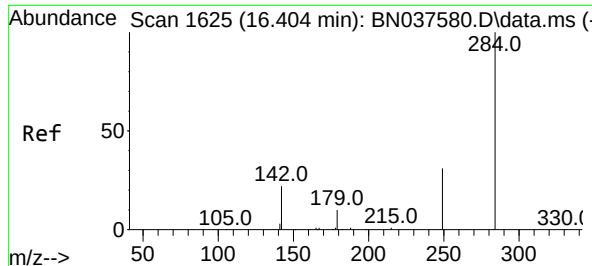
Ion Ratio Lower Upper

248 100

250 105.0 78.6 118.0

141 65.2 43.7 65.5





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

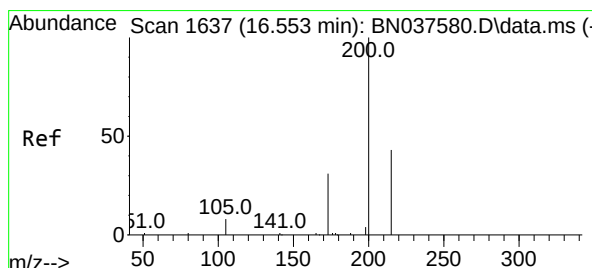
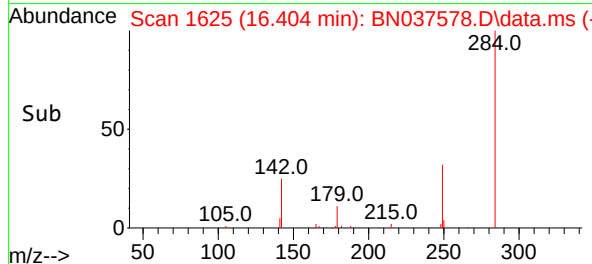
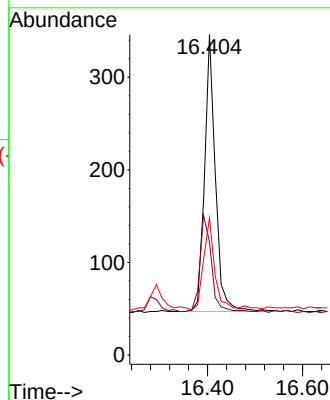
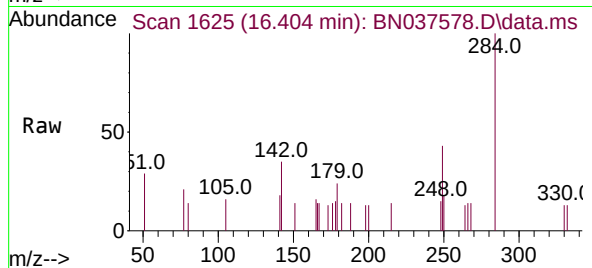
Tgt Ion:284 Resp: 476

Ion Ratio Lower Upper

284 100

142 36.8 29.8 44.6

249 33.4 26.0 39.0



#23

Atrazine

Concen: 0.089 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.012 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

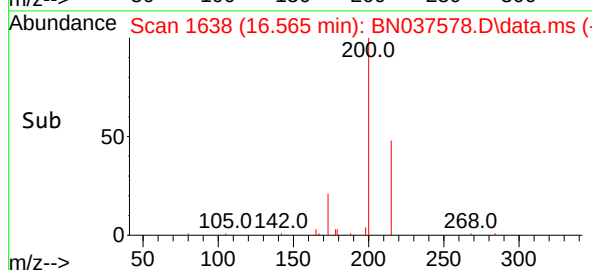
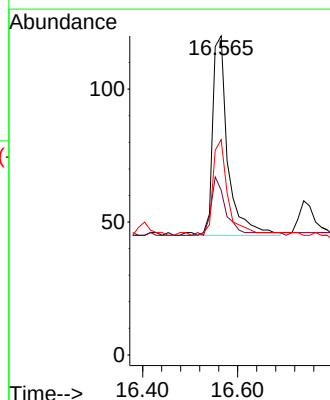
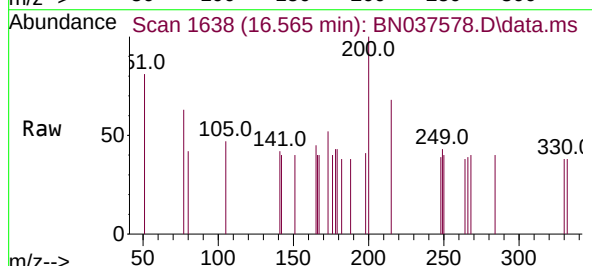
Tgt Ion:200 Resp: 168

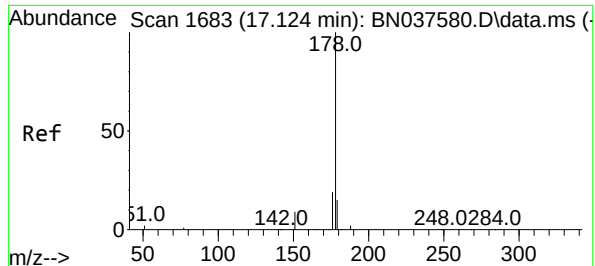
Ion Ratio Lower Upper

200 100

173 51.7 31.0 46.4#

215 67.5 39.4 59.0#

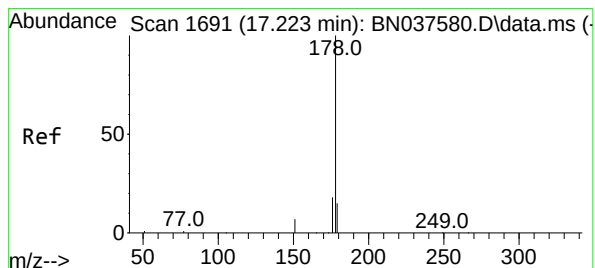
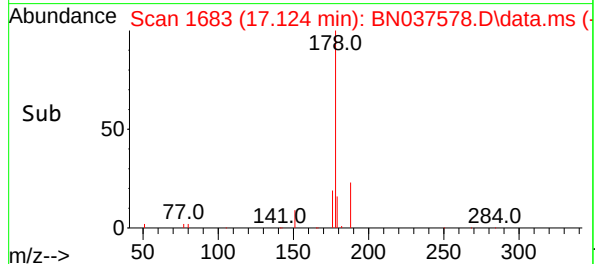
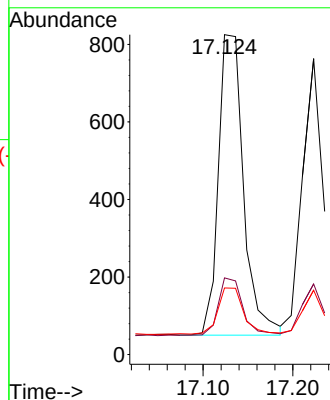
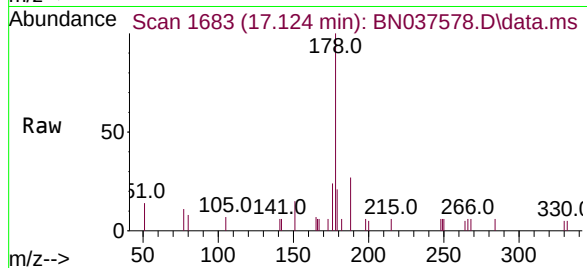




#25
Phenanthrene
Concen: 0.094 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

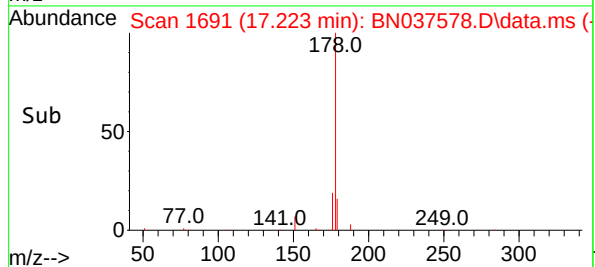
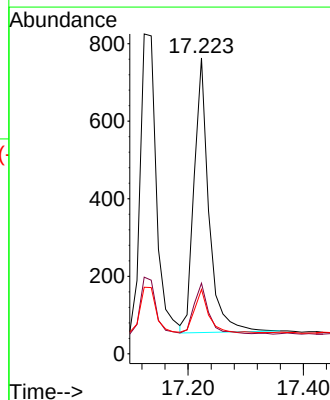
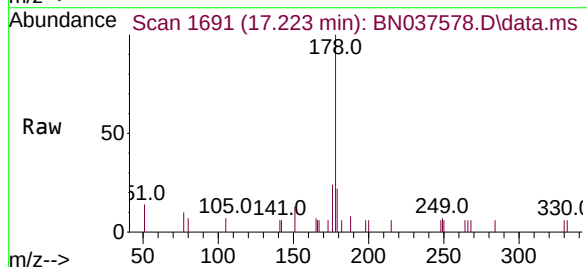
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

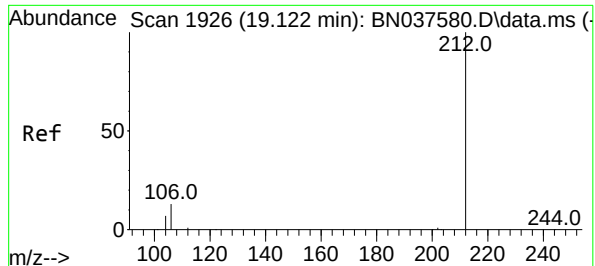
Tgt Ion:178 Resp: 1517
Ion Ratio Lower Upper
178 100
176 18.4 15.0 22.6
179 16.0 12.3 18.5



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

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





#27

Fluoranthene-d10

Concen: 0.089 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

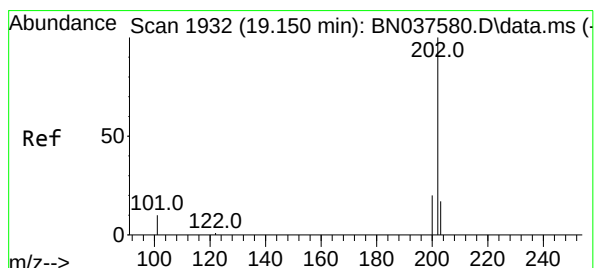
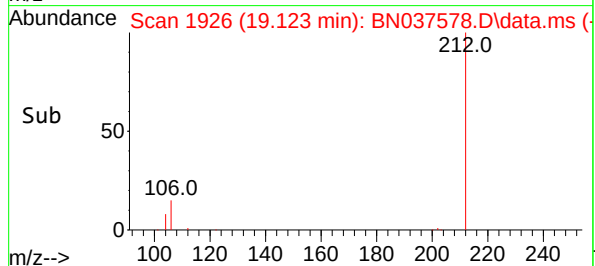
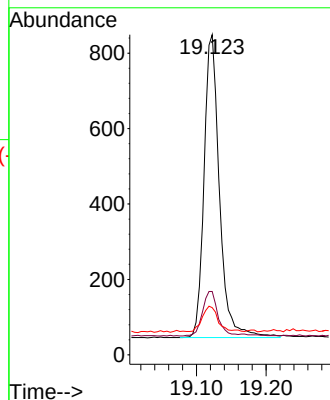
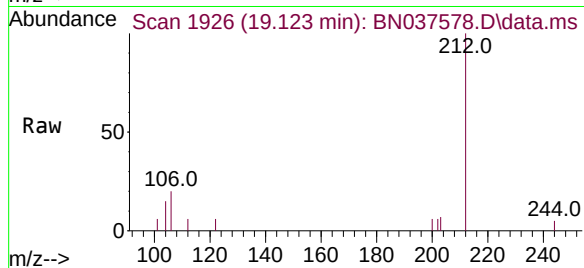
Tgt Ion:212 Resp: 1234

Ion Ratio Lower Upper

212 100

106 14.6 11.5 17.3

104 8.6 6.6 9.8



#28

Fluoranthene

Concen: 0.089 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

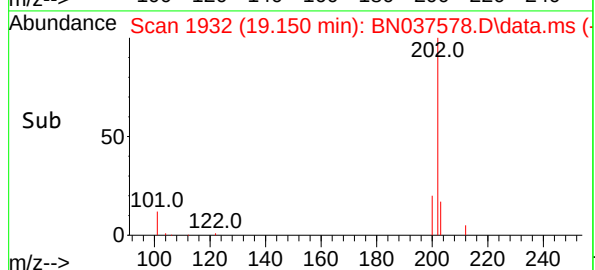
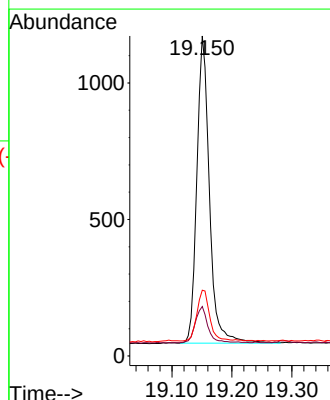
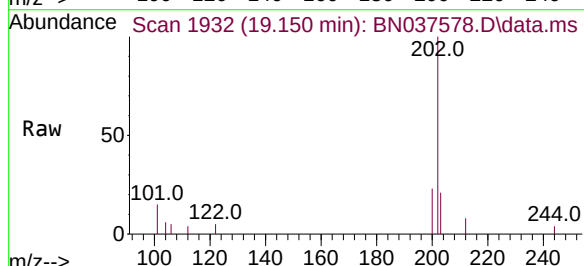
Tgt Ion:202 Resp: 1643

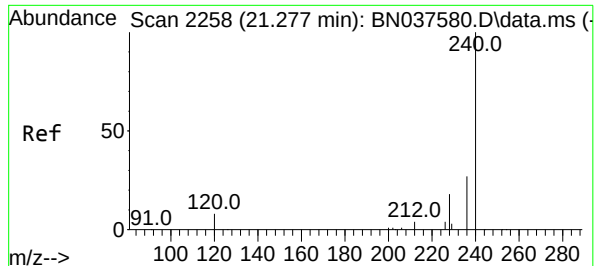
Ion Ratio Lower Upper

202 100

101 11.9 9.0 13.6

203 16.7 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

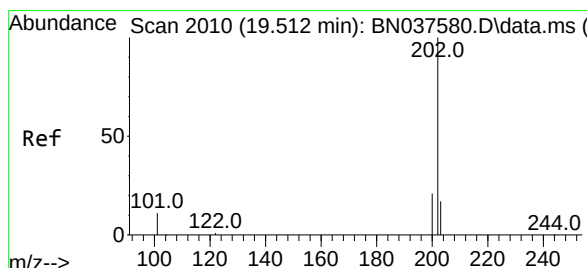
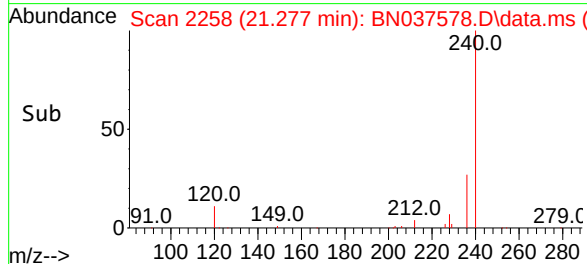
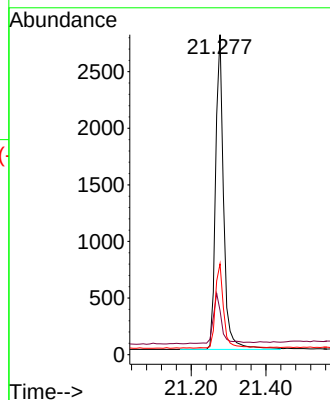
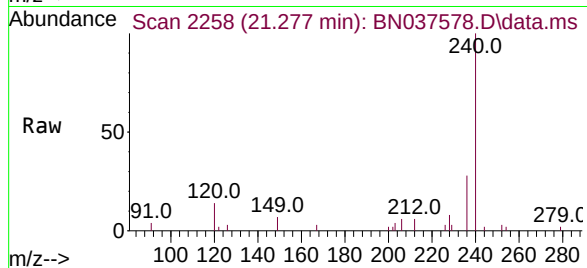
Tgt Ion:240 Resp: 4146

Ion Ratio Lower Upper

240 100

120 13.8 8.9 13.3#

236 28.4 22.6 33.8



#30

Pyrene

Concen: 0.103 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

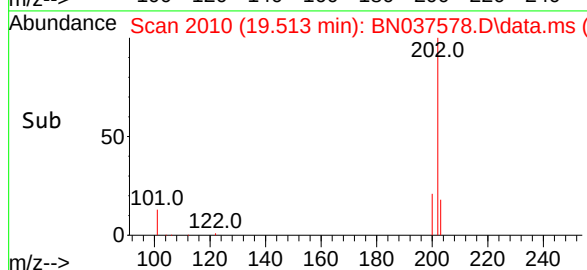
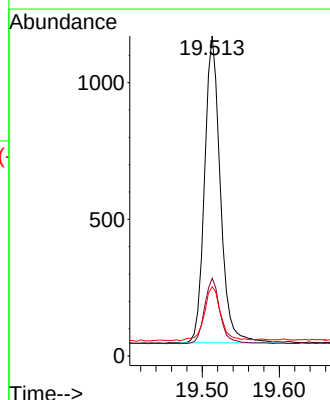
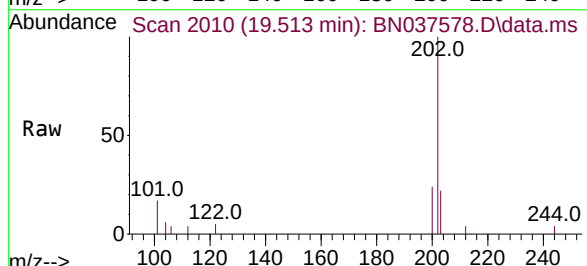
Tgt Ion:202 Resp: 1595

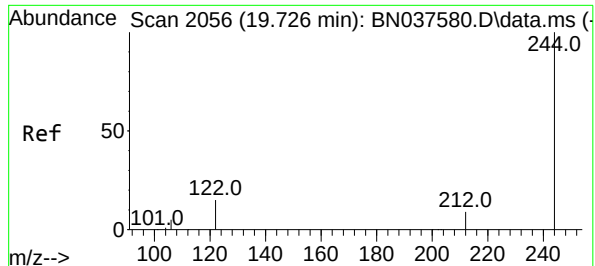
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

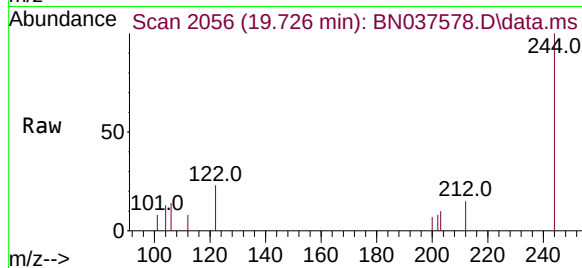
203 18.0 14.3 21.5



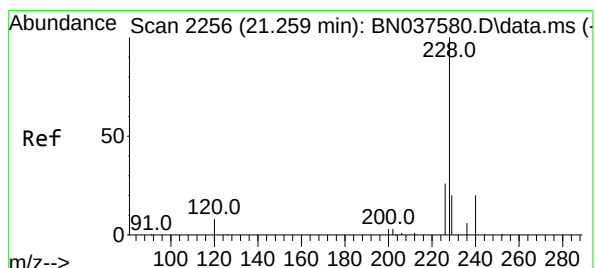
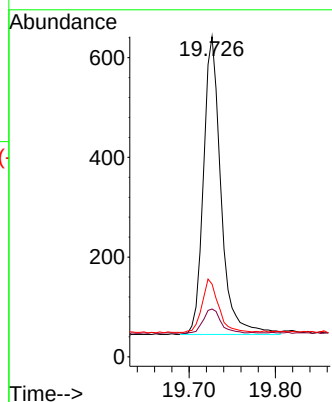


#31
Terphenyl-d14
Concen: 0.099 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037578.D
Acq: 12 Aug 2025 16:26

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

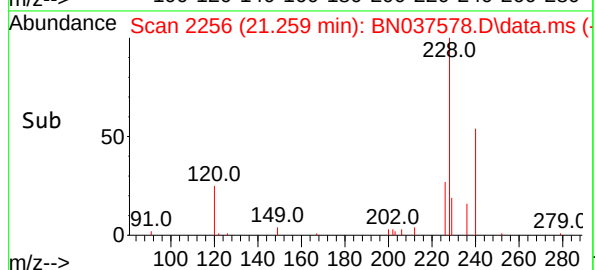
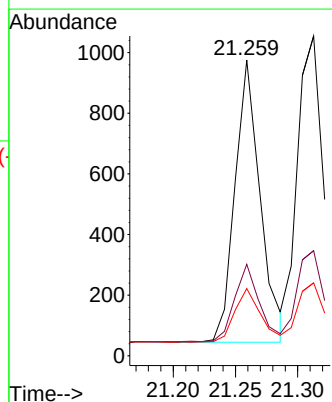
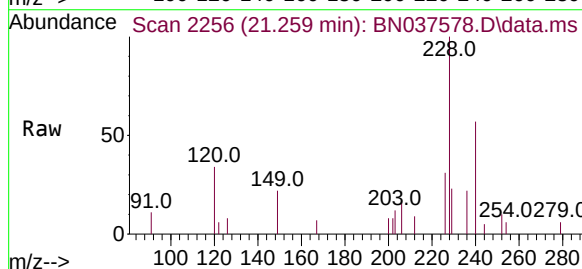


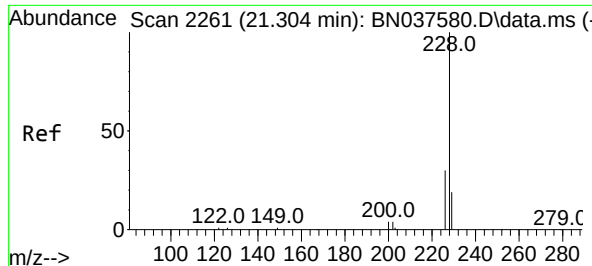
Tgt Ion:244 Resp: 844
Ion Ratio Lower Upper
244 100
212 15.0 8.2 12.2#
122 22.7 13.2 19.8#



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

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





#33

Chrysene

Concen: 0.104 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

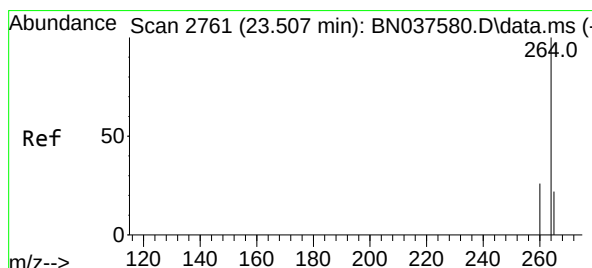
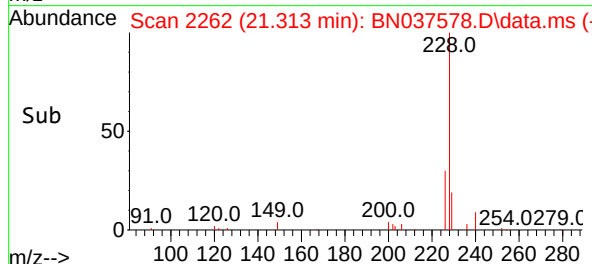
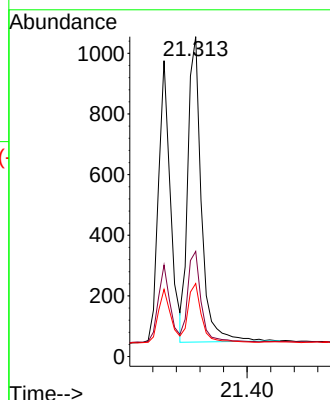
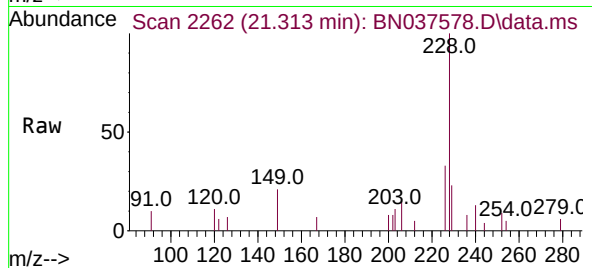
Tgt Ion:228 Resp: 1603

Ion Ratio Lower Upper

228 100

226 32.9 24.9 37.3

229 22.8 15.8 23.8



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.514 min Scan# 2763

Delta R.T. 0.006 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

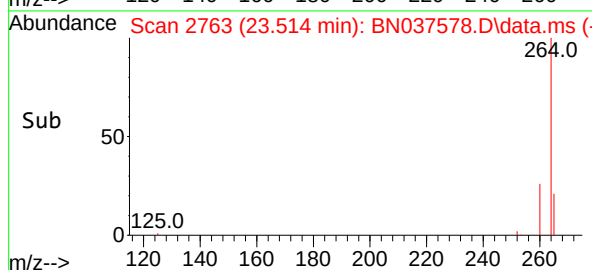
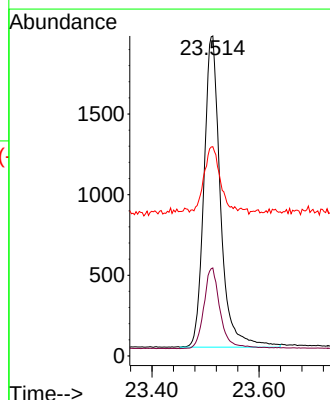
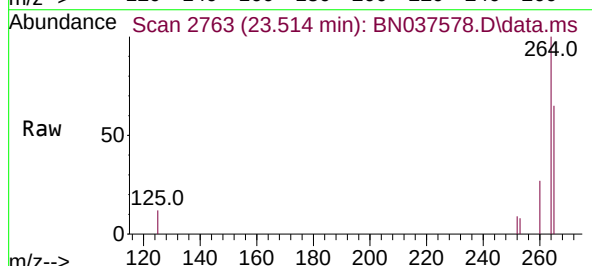
Tgt Ion:264 Resp: 4132

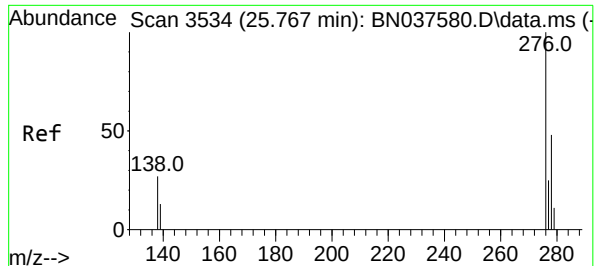
Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

265 65.4 48.2 72.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.086 ng

RT: 25.771 min Scan# 3534

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

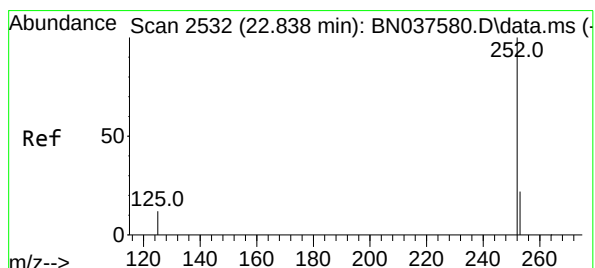
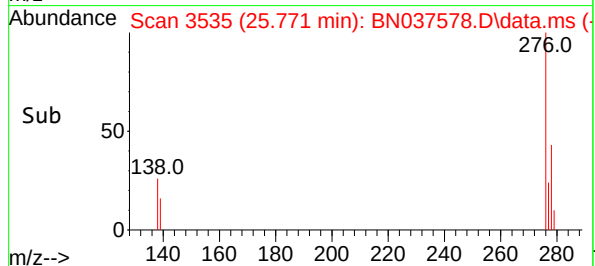
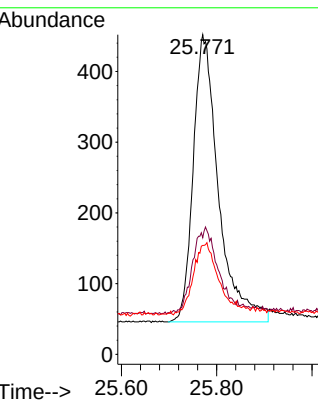
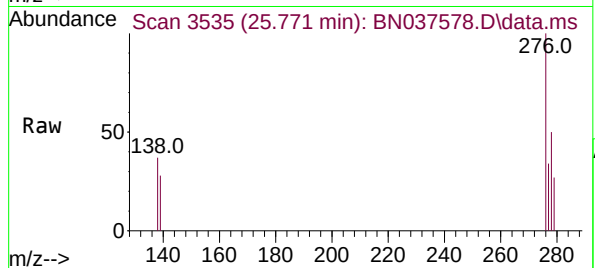
Tgt Ion:276 Resp: 1494

Ion Ratio Lower Upper

276 100

138 29.2 23.3 34.9

277 24.9 19.5 29.3



#37

Benzo(b)fluoranthene

Concen: 0.089 ng

RT: 22.841 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

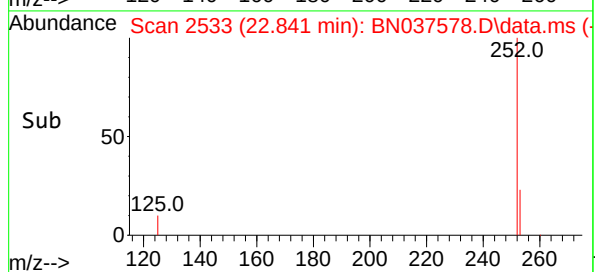
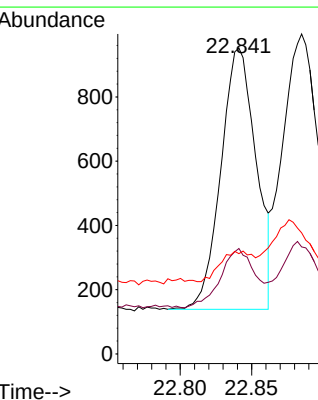
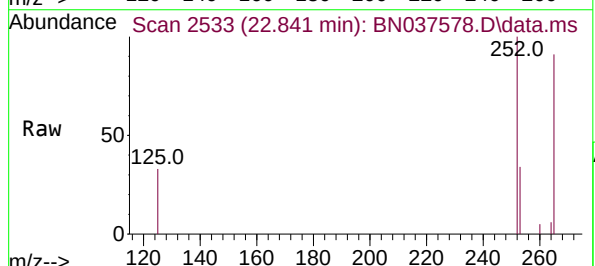
Tgt Ion:252 Resp: 1396

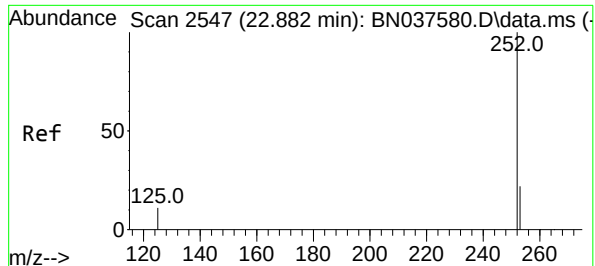
Ion Ratio Lower Upper

252 100

253 34.5 20.0 30.0#

125 32.8 13.8 20.6#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 22.885 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037578.D

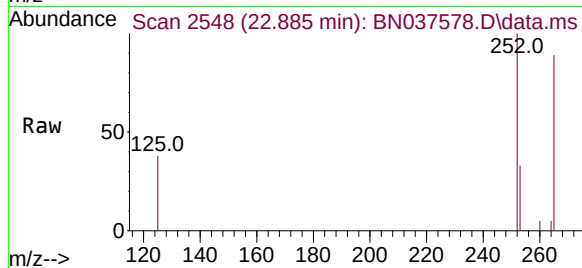
Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



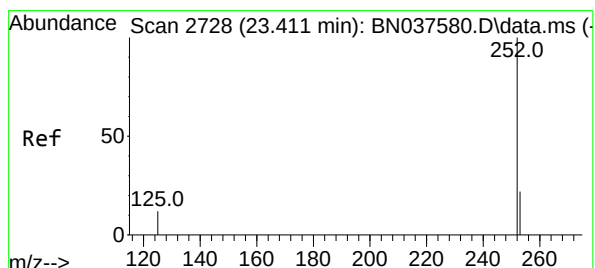
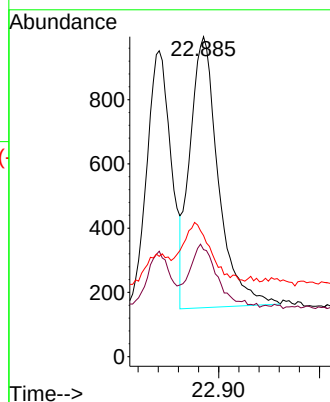
Tgt Ion:252 Resp: 1650

Ion Ratio Lower Upper

252 100

253 33.4 19.9 29.9#

125 37.9 15.0 22.6#



#39

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.411 min Scan# 2728

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

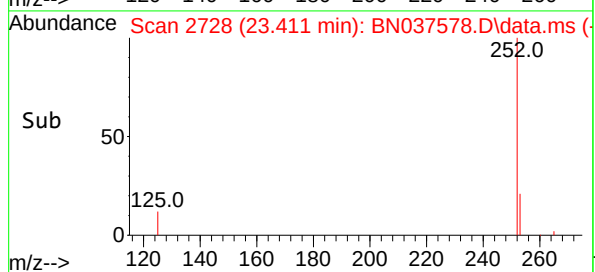
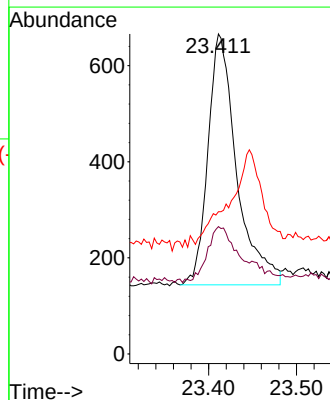
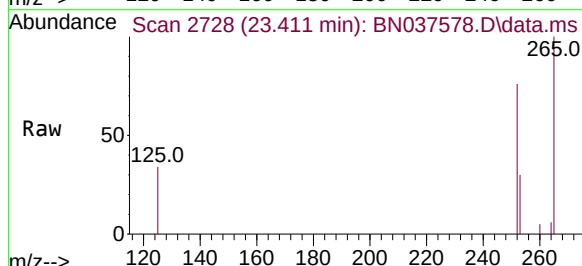
Tgt Ion:252 Resp: 1184

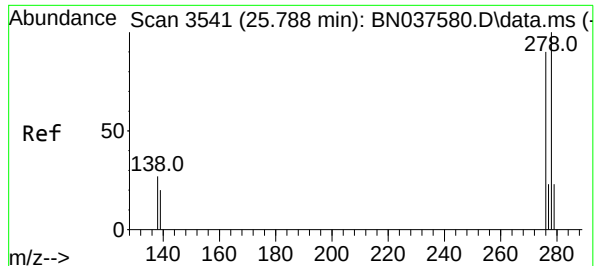
Ion Ratio Lower Upper

252 100

253 39.8 21.6 32.4#

125 44.4 16.8 25.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.078 ng

RT: 25.791 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

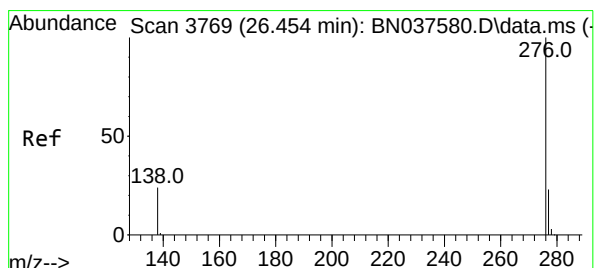
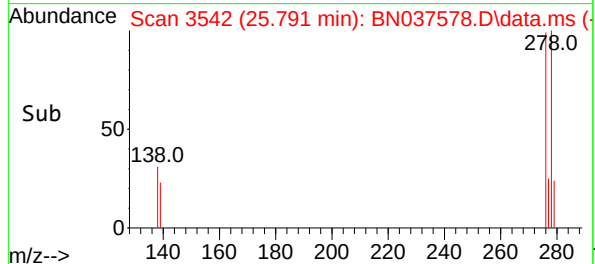
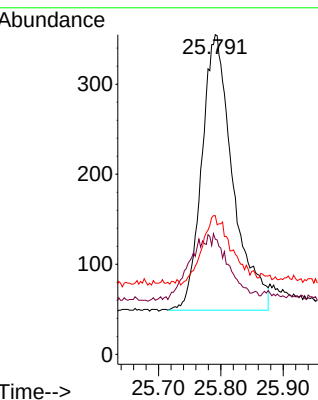
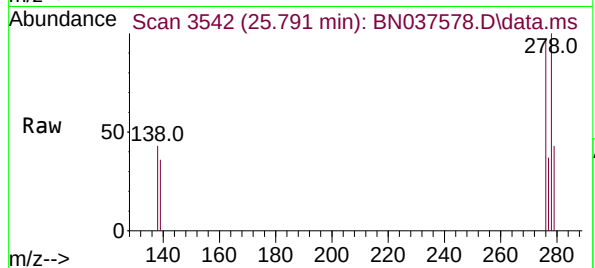
Tgt Ion:278 Resp: 1057

Ion Ratio Lower Upper

278 100

139 36.1 18.3 27.5#

279 43.4 22.5 33.7#



#41

Benzo(g,h,i)perylene

Concen: 0.088 ng

RT: 26.458 min Scan# 3770

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

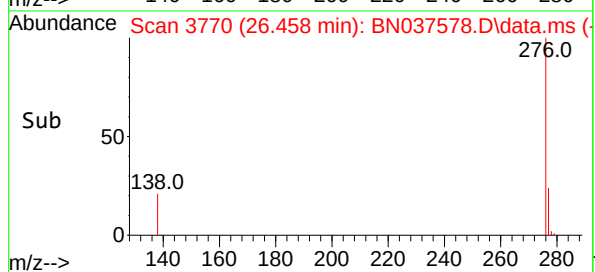
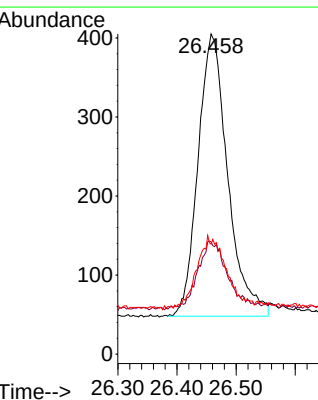
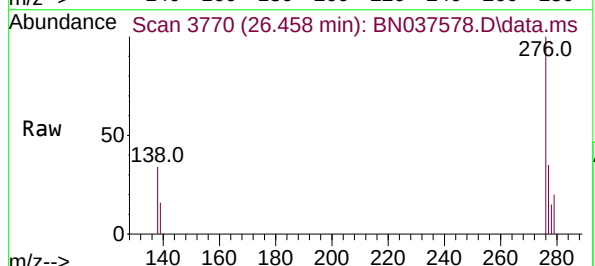
Tgt Ion:276 Resp: 1247

Ion Ratio Lower Upper

276 100

277 35.1 21.0 31.4#

138 34.3 21.7 32.5#



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

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

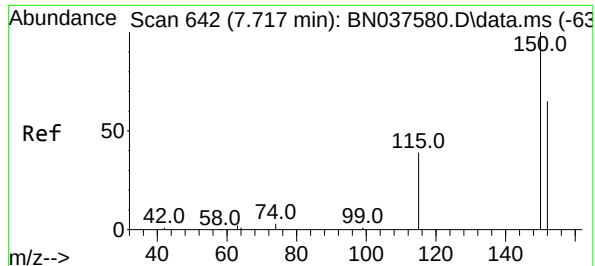
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2031	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4975	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2407	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4812	0.400	ng	0.00
29) Chrysene-d12	21.277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

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

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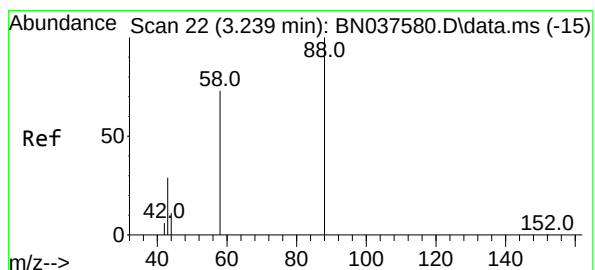
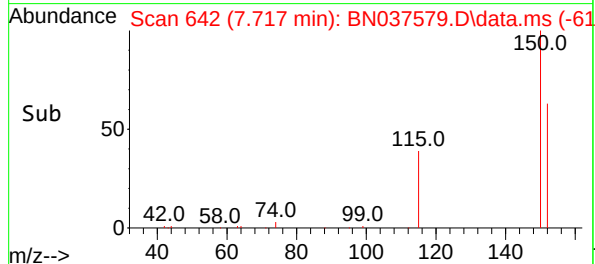
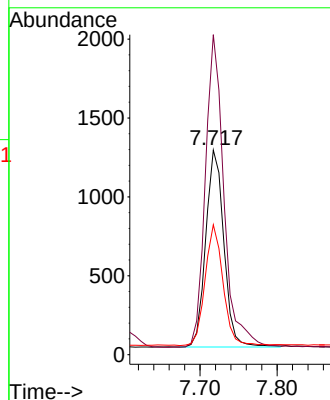
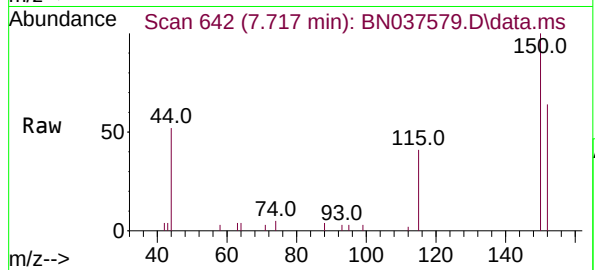




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

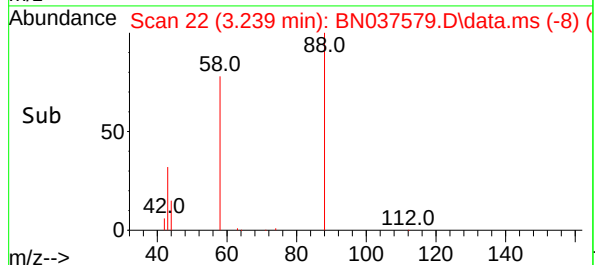
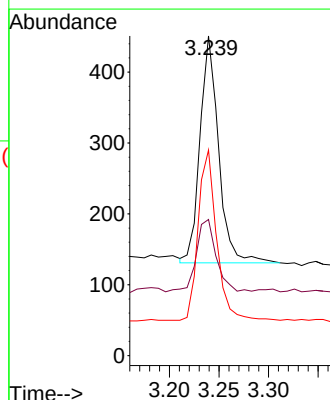
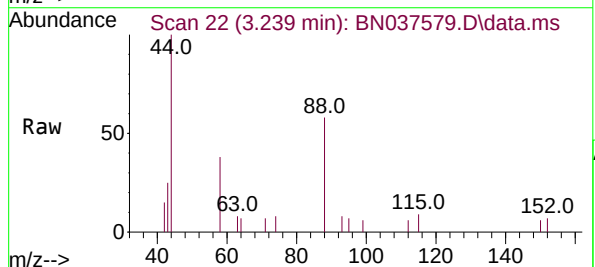
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BNA_N
ClientSampleId :
SSTDICC0.2

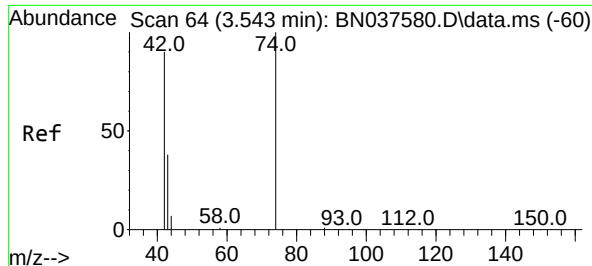
Tgt Ion:152 Resp: 2031
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.4
115 63.5 49.8 74.6



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

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

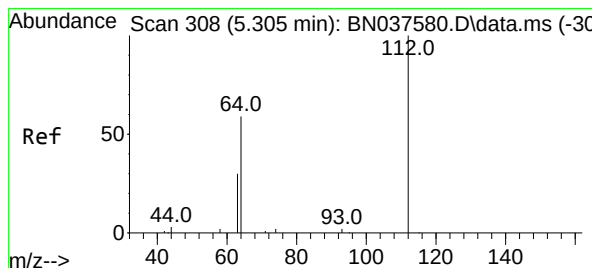
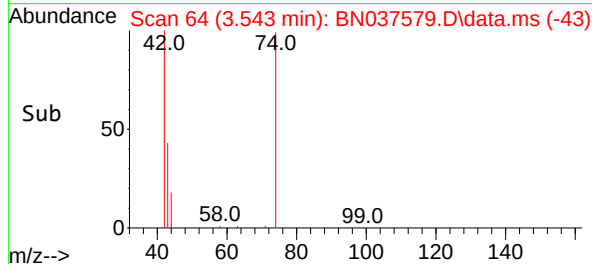
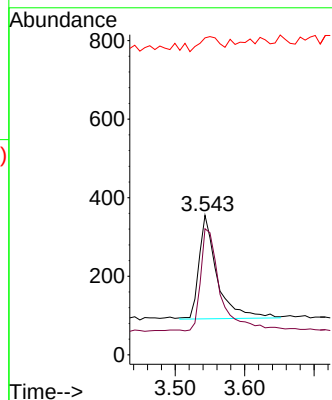
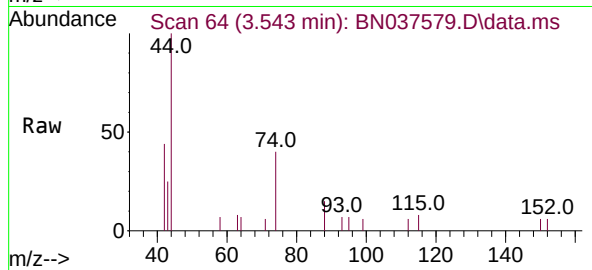




#3
n-Nitrosodimethylamine
Concen: 0.193 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

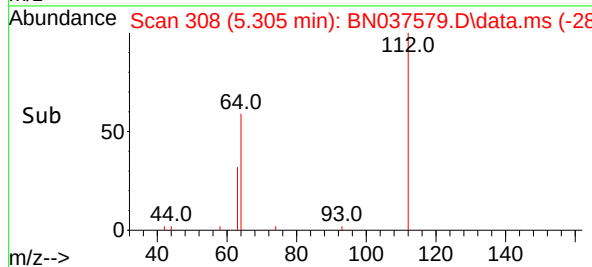
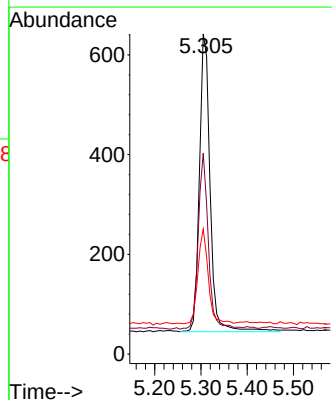
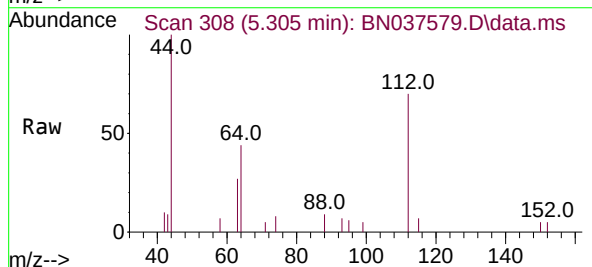
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ClientSampleId :
SSTDICC0.2

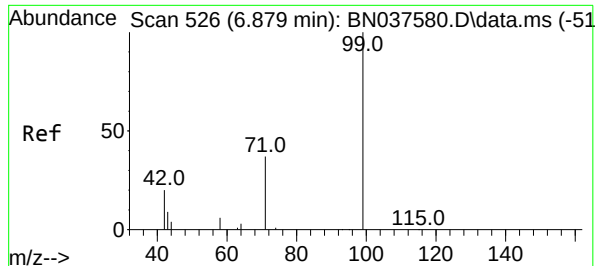
Tgt Ion: 42 Resp: 478
Ion Ratio Lower Upper
42 100
74 107.5 82.0 123.0
44 15.7 7.9 11.9#



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

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

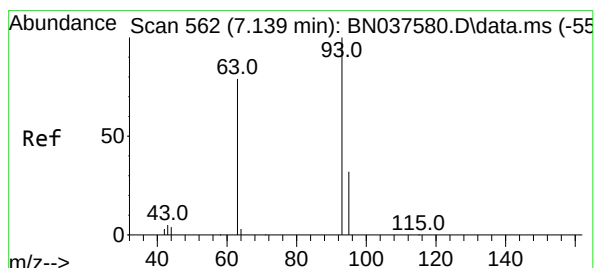
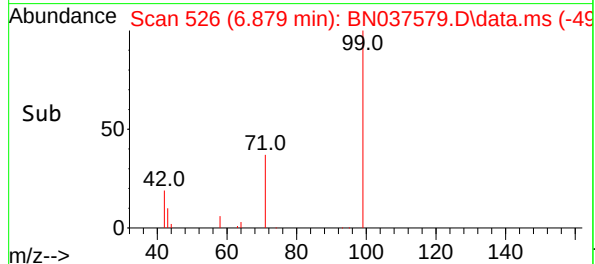
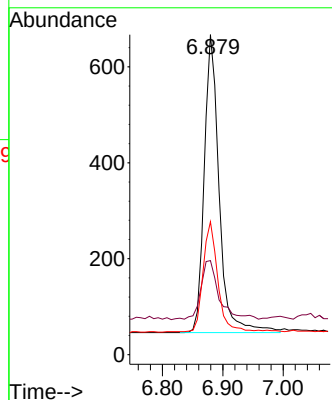
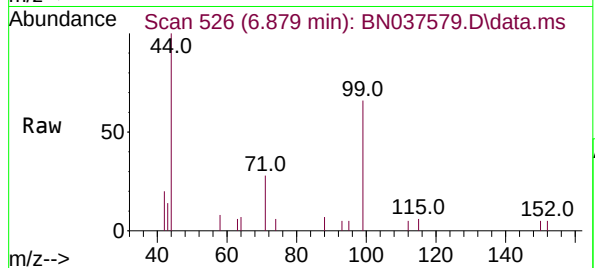




#5
Phenol-d6
Concen: 0.193 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

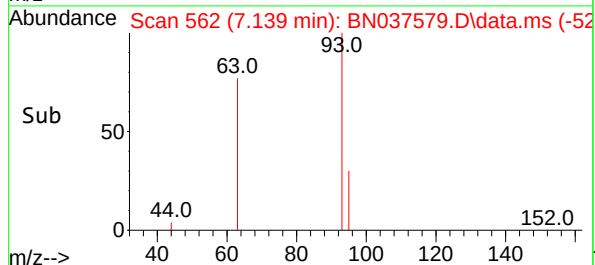
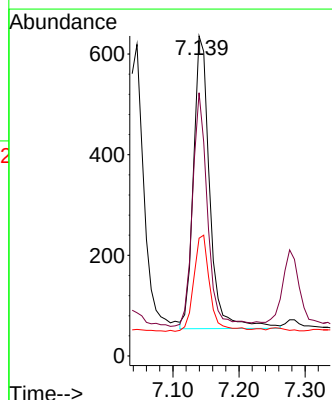
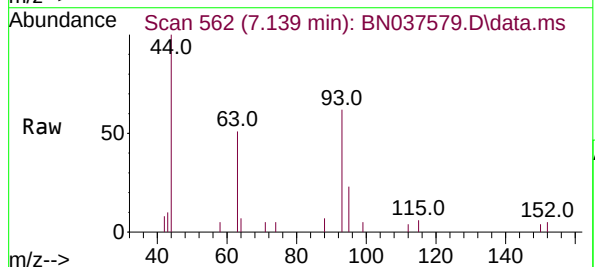
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ClientSampleId :
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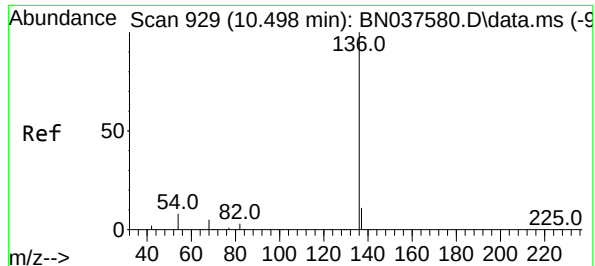
Tgt Ion: 99 Resp: 1067
Ion Ratio Lower Upper
99 100
42 24.4 18.5 27.7
71 35.7 28.6 42.8



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

Tgt Ion: 93 Resp: 1002
Ion Ratio Lower Upper
93 100
63 73.4 58.0 87.0
95 32.5 24.9 37.3

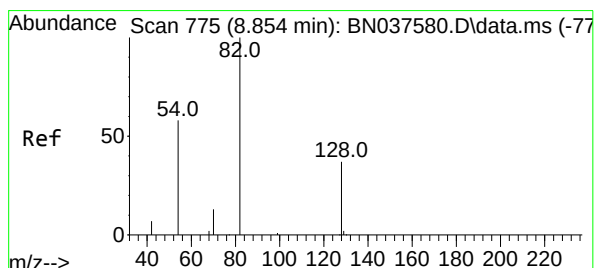
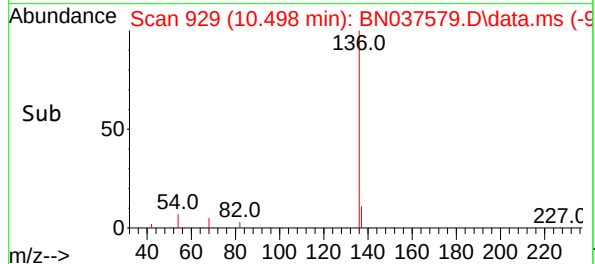
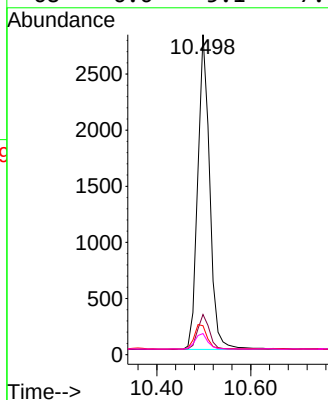
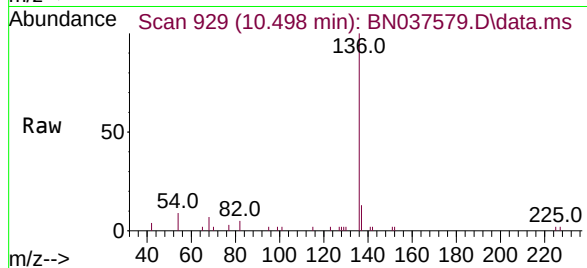




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

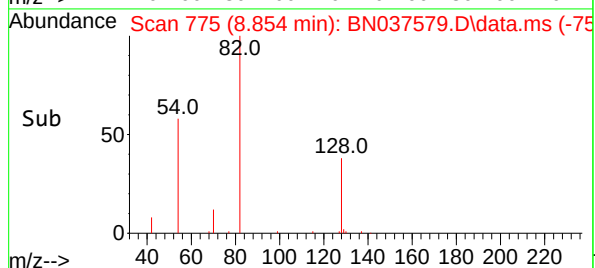
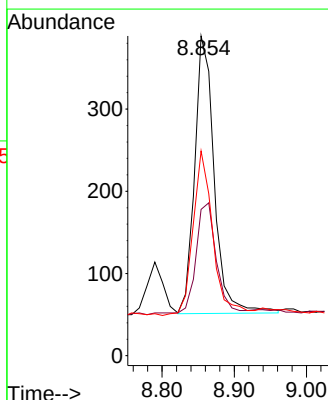
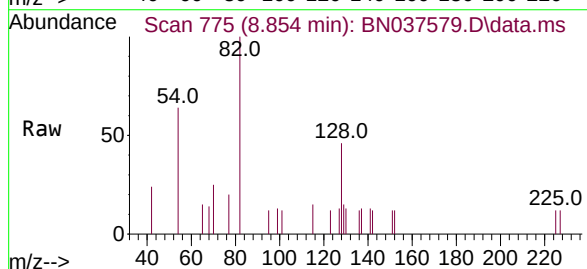
Instrument :
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ClientSampleId :
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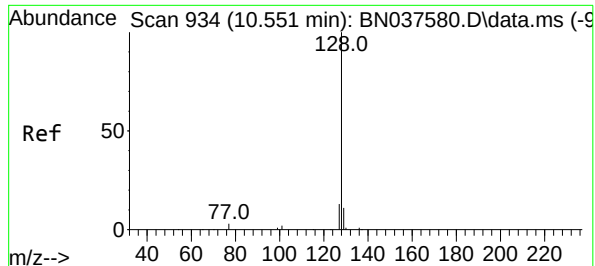
Tgt Ion:	136	Resp:	4975
Ion	Ratio	Lower	Upper
136	100		
137	12.6	9.5	14.3
54	9.0	7.3	10.9
68	6.6	5.1	7.7



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

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





#9

Naphthalene

Concen: 0.197 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

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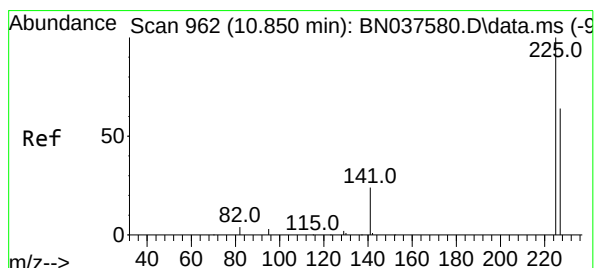
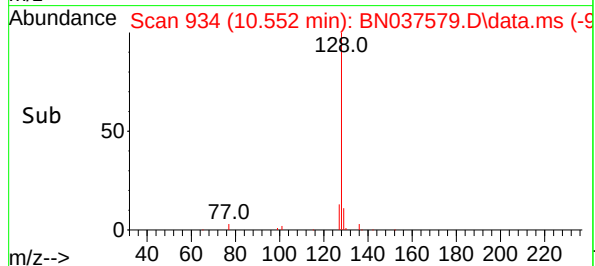
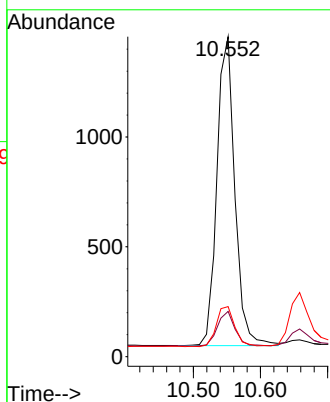
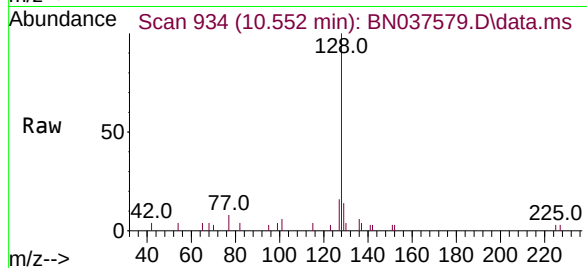
Tgt Ion:128 Resp: 2613

Ion Ratio Lower Upper

128 100

129 14.1 9.8 14.6

127 15.6 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.198 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

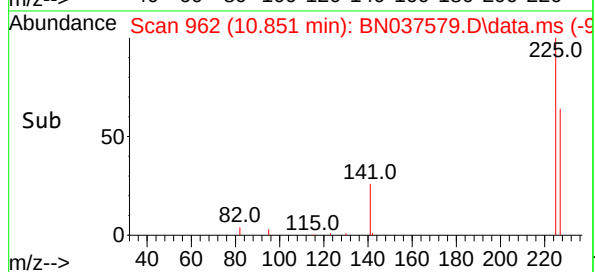
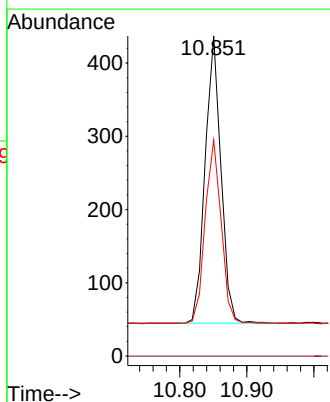
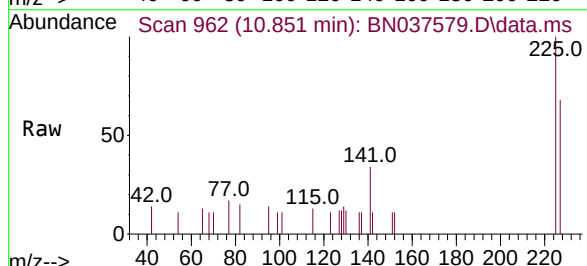
Tgt Ion:225 Resp: 641

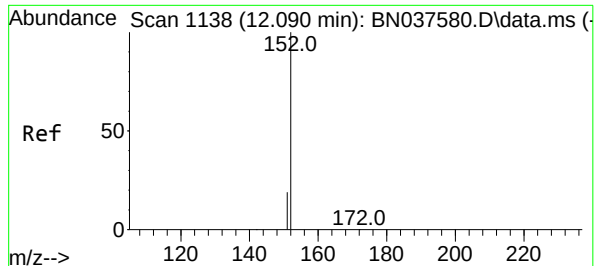
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 50.8 76.2

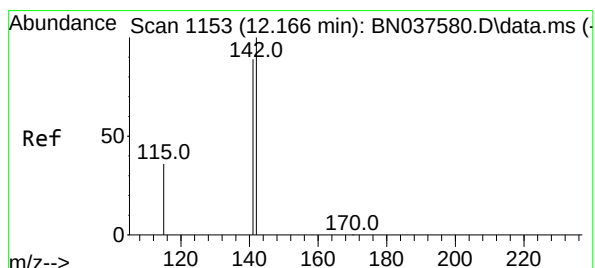
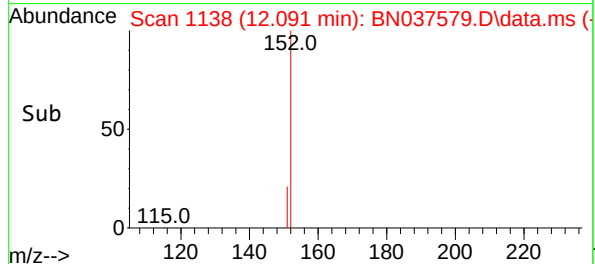
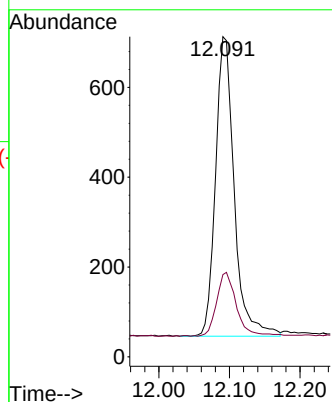
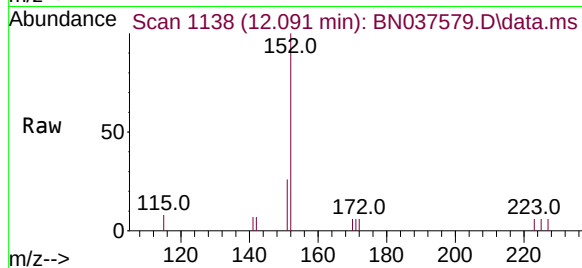




#11
2-Methylnaphthalene-d10
Concen: 0.181 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

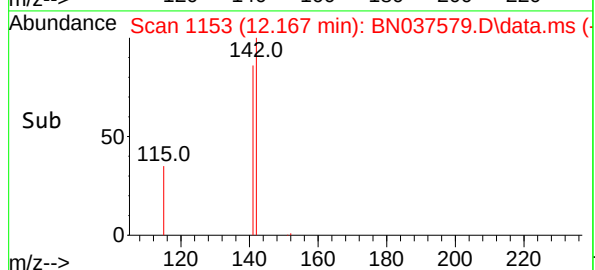
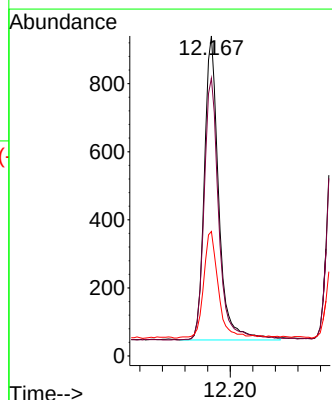
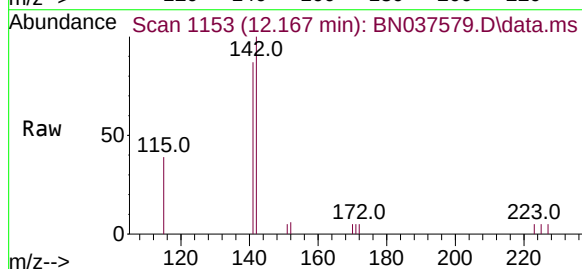
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ClientSampleId :
SSTDICC0.2

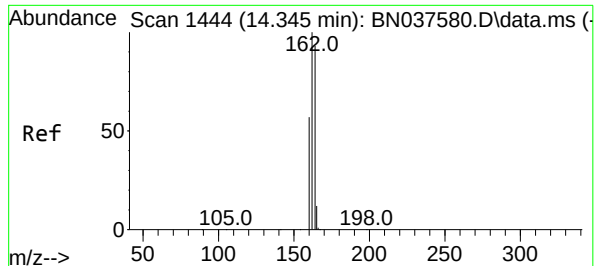
Tgt Ion:152 Resp: 1225
Ion Ratio Lower Upper
152 100
151 22.7 17.3 25.9



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

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

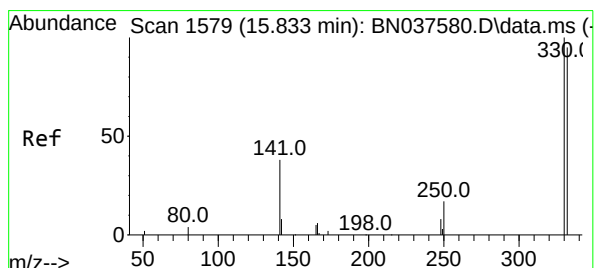
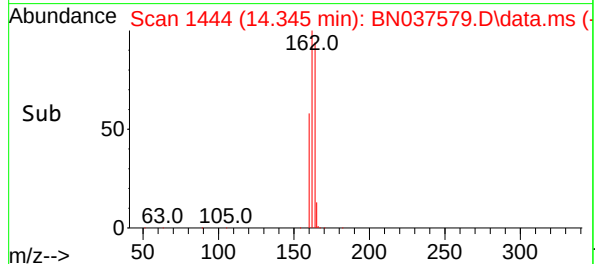
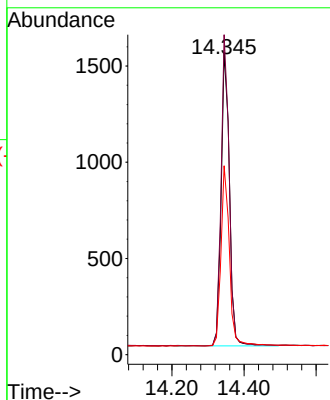
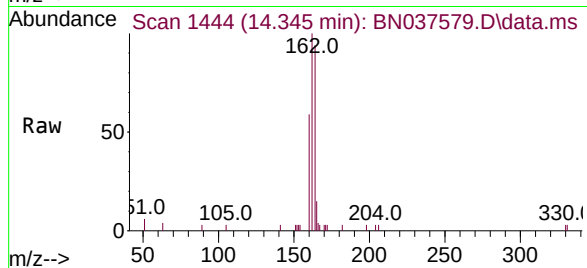




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

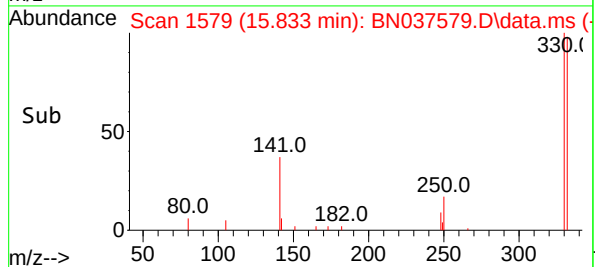
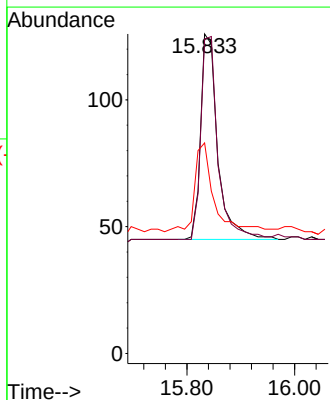
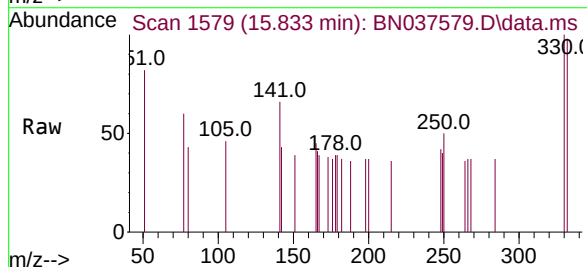
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

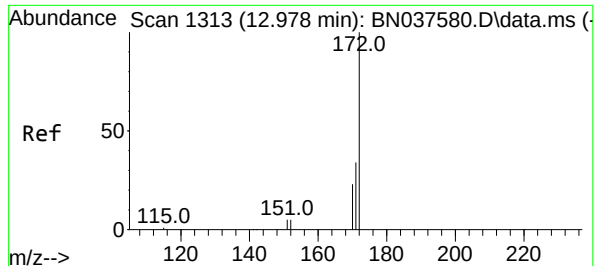
Tgt Ion:164 Resp: 2407
Ion Ratio Lower Upper
164 100
162 106.0 85.5 128.3
160 62.6 49.5 74.3



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

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





#15

2-Fluorobiphenyl

Concen: 0.194 ng

RT: 12.978 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

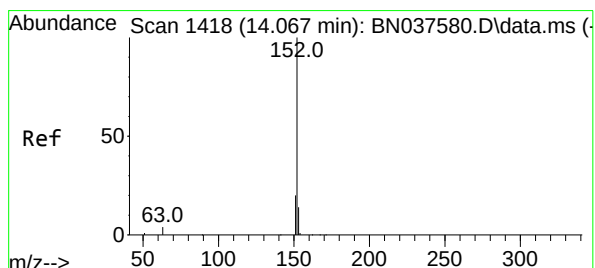
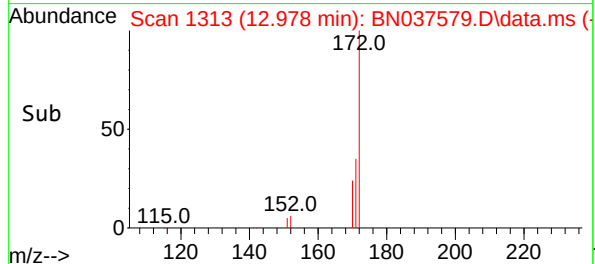
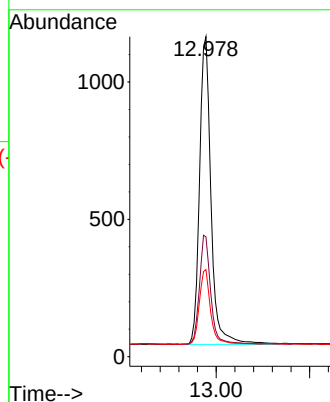
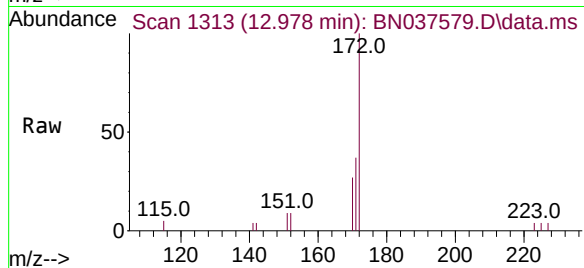
Tgt Ion:172 Resp: 2700

Ion Ratio Lower Upper

172 100

171 37.4 28.2 42.4

170 27.2 19.2 28.8



#16

Acenaphthylene

Concen: 0.196 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

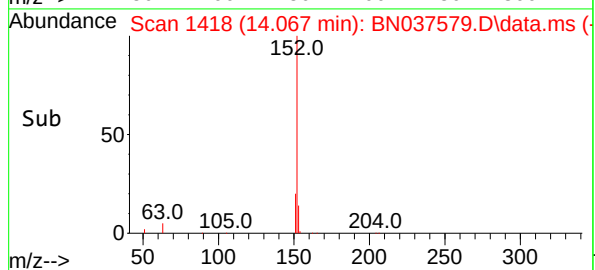
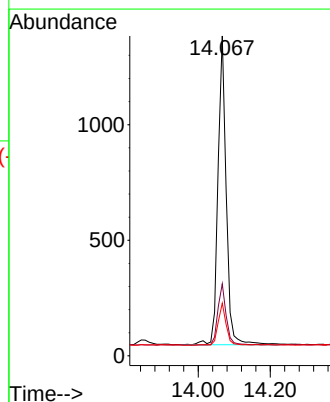
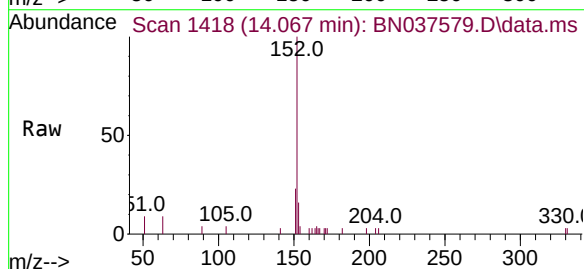
Tgt Ion:152 Resp: 2118

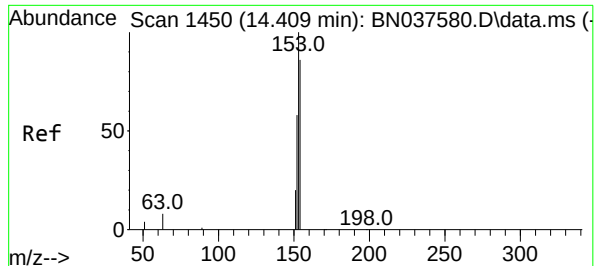
Ion Ratio Lower Upper

152 100

151 20.4 16.1 24.1

153 13.3 10.7 16.1





#17

Acenaphthene

Concen: 0.189 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

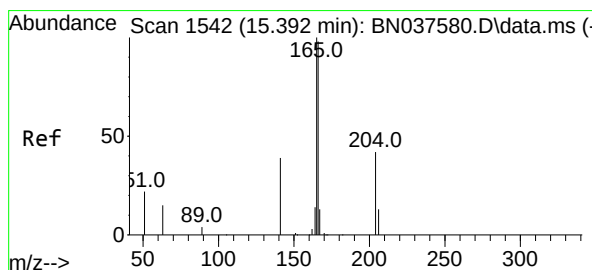
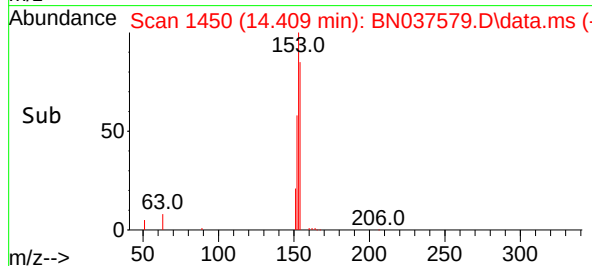
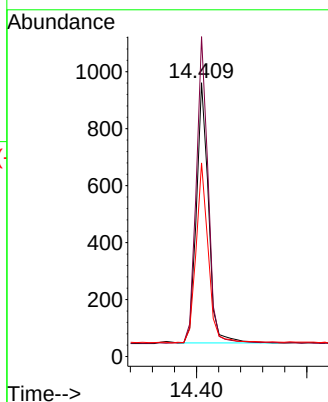
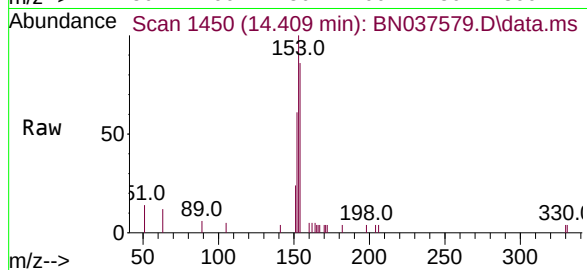
Tgt Ion:154 Resp: 1384

Ion Ratio Lower Upper

154 100

153 115.7 90.6 135.8

152 70.7 54.9 82.3



#18

Fluorene

Concen: 0.189 ng

RT: 15.393 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

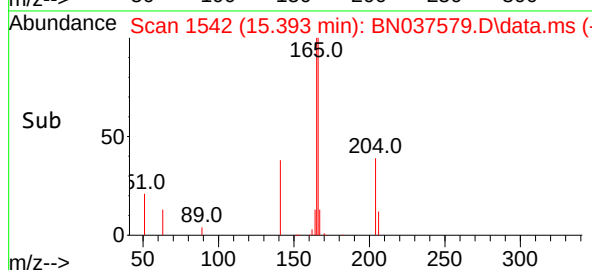
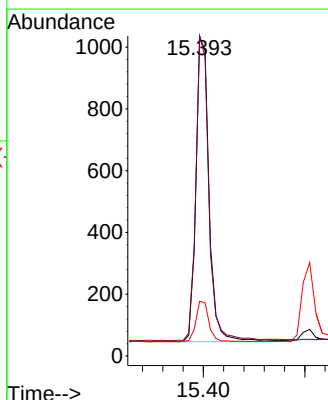
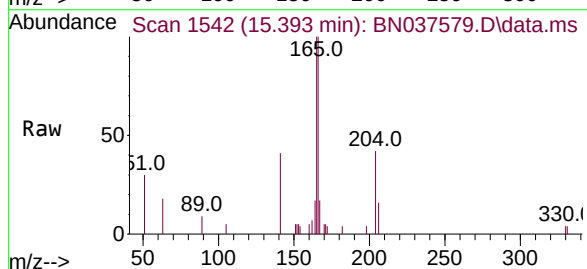
Tgt Ion:166 Resp: 1817

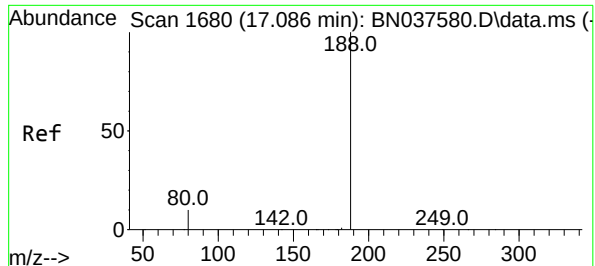
Ion Ratio Lower Upper

166 100

165 96.0 78.9 118.3

167 12.9 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

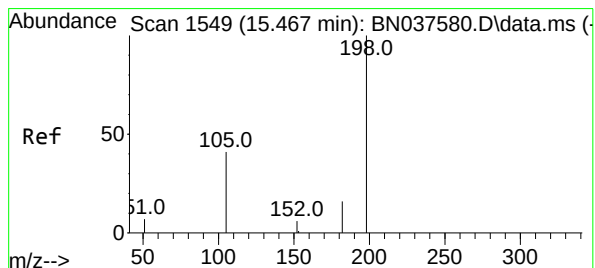
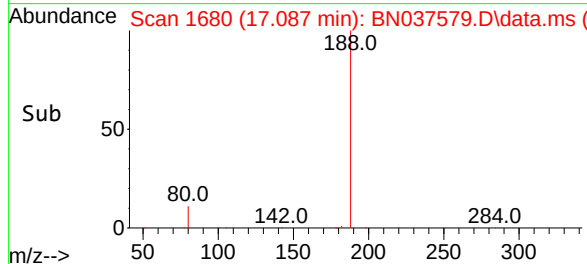
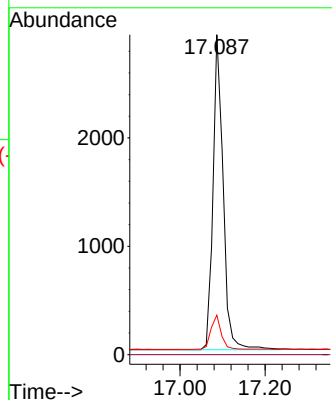
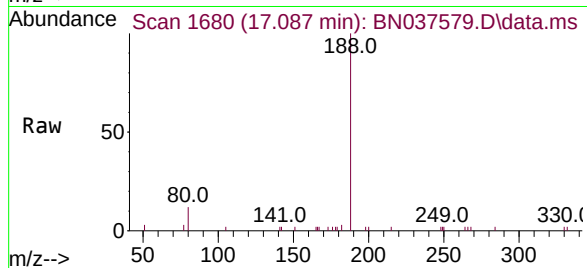
Tgt Ion:188 Resp: 4812

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.295 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

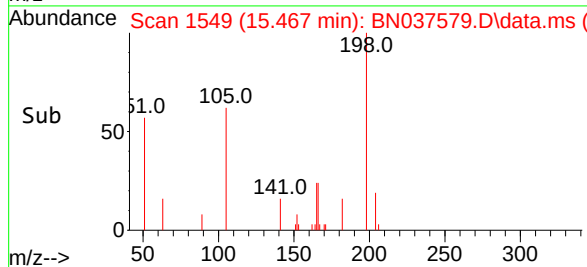
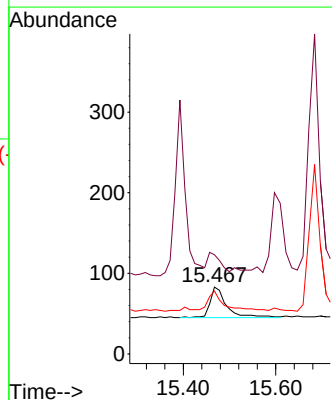
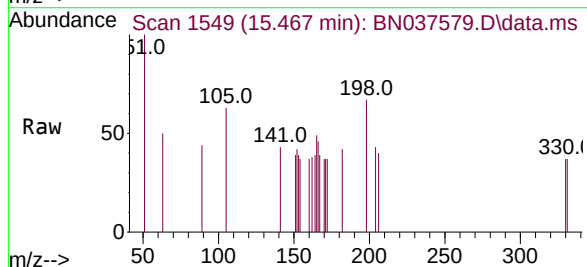
Tgt Ion:198 Resp: 100

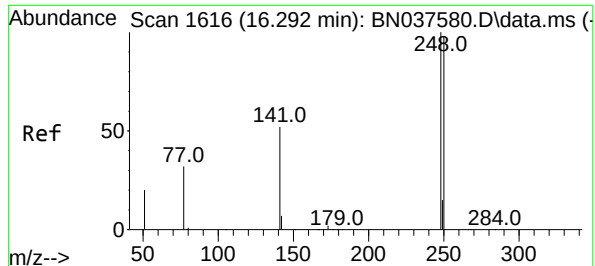
Ion Ratio Lower Upper

198 100

51 148.2 81.0 121.6#

105 94.0 52.5 78.7#

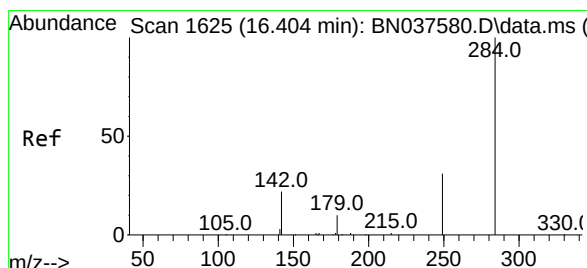
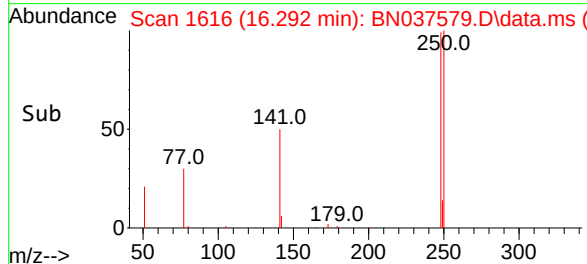
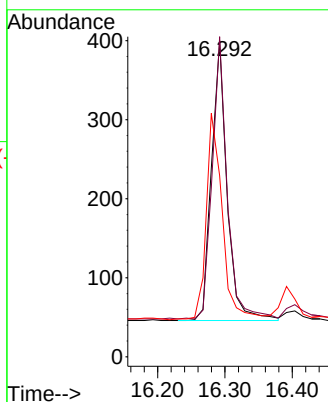
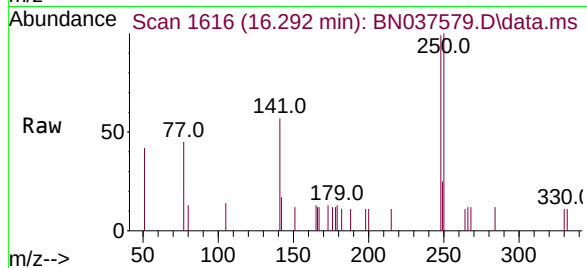




#21
4-Bromophenyl-phenylether
Concen: 0.187 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

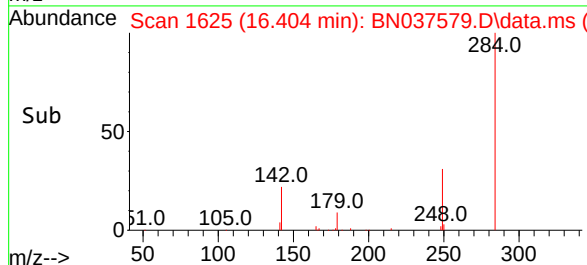
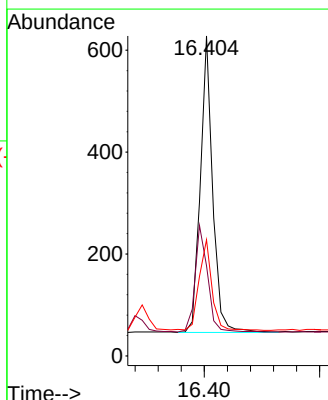
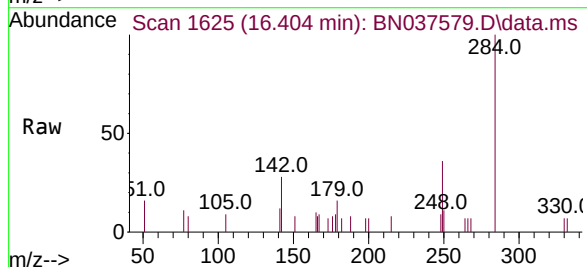
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

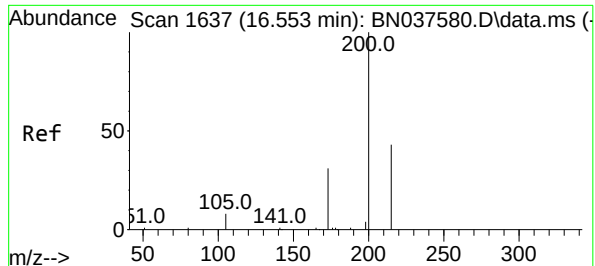
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	78.6	118.0
141	57.3	43.7	65.5



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

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

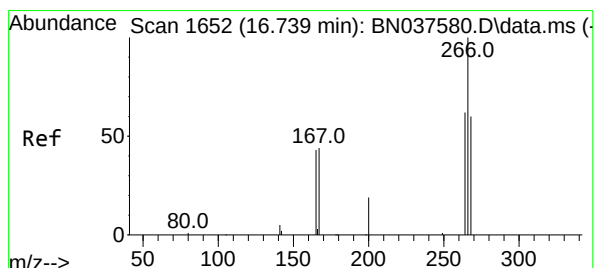
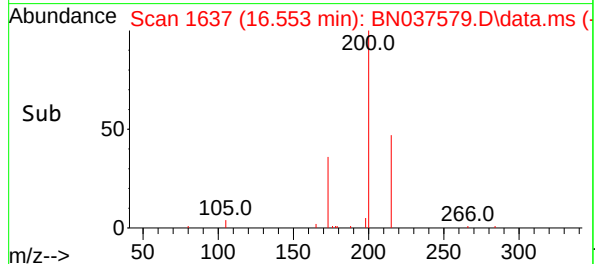
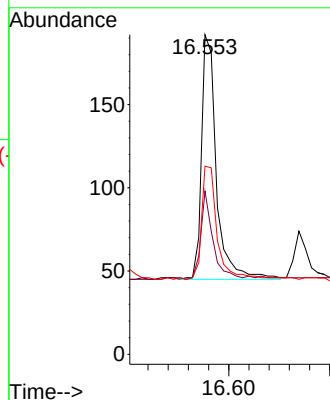
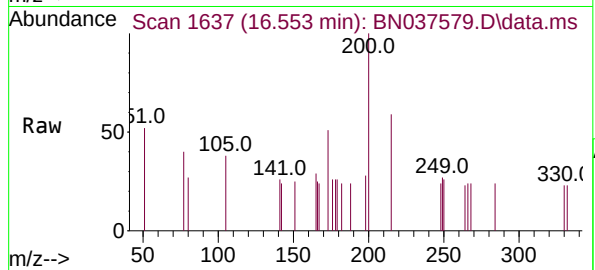




#23
Atrazine
Concen: 0.177 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037579.D
Acq: 12 Aug 2025 17:03

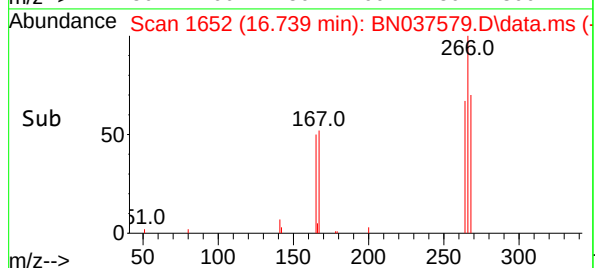
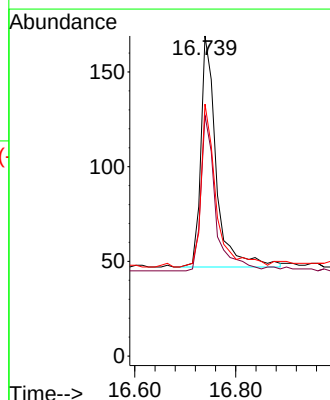
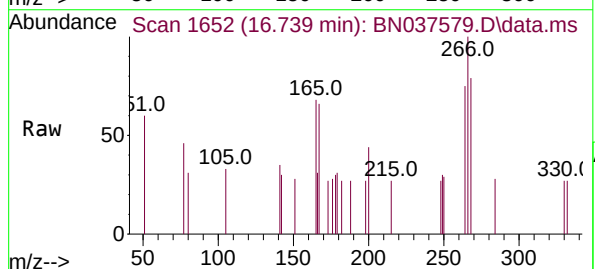
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

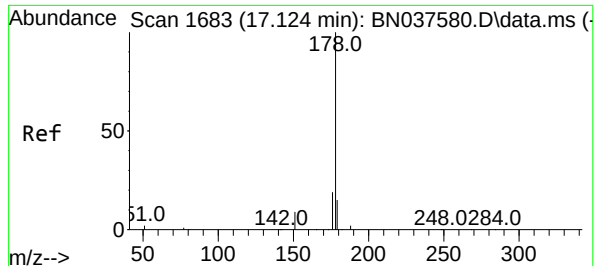
Tgt Ion:200 Resp: 303
Ion Ratio Lower Upper
200 100
173 51.0 31.0 46.4#
215 58.9 39.4 59.0



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

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





#25

Phenanthrene

Concen: 0.191 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

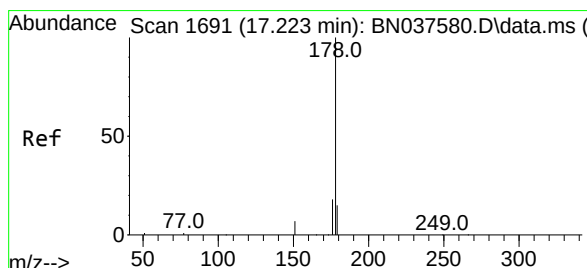
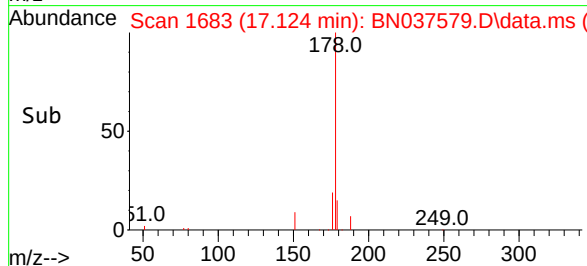
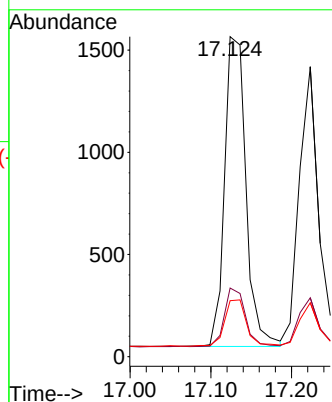
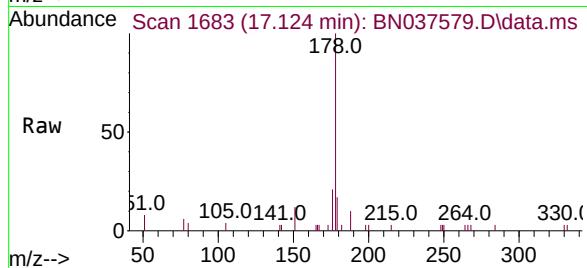
Tgt Ion:178 Resp: 2796

Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.6

179 15.2 12.3 18.5



#26

Anthracene

Concen: 0.183 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

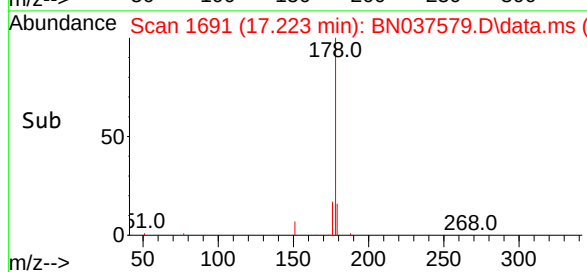
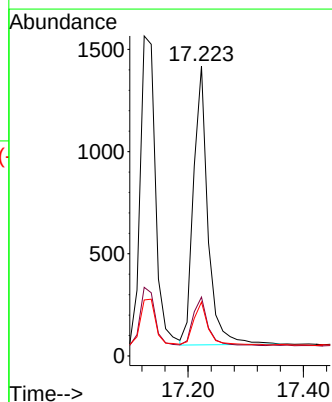
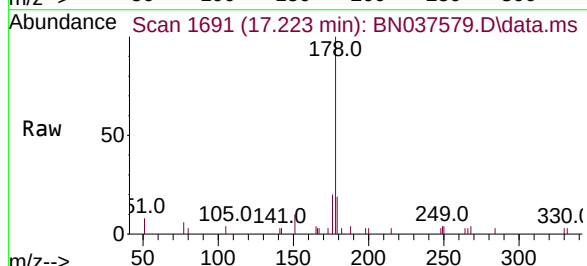
Tgt Ion:178 Resp: 2371

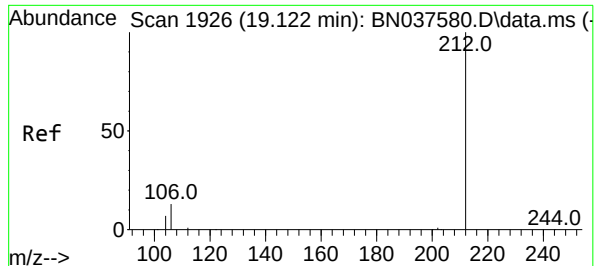
Ion Ratio Lower Upper

178 100

176 18.0 14.7 22.1

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.184 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

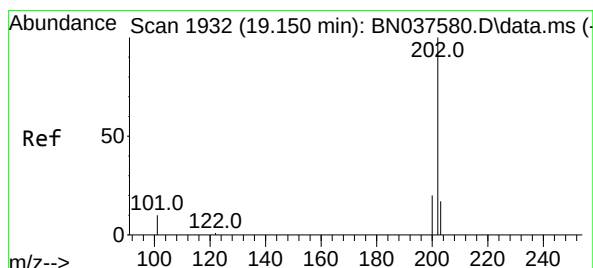
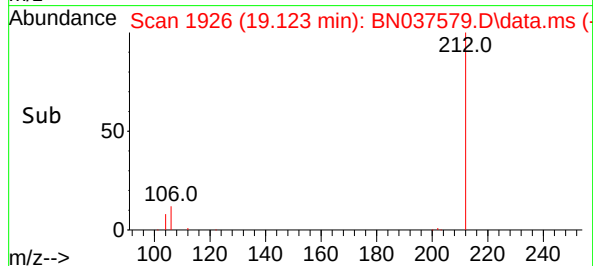
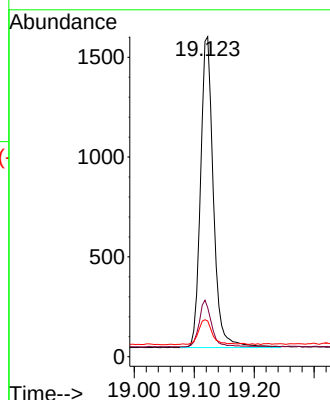
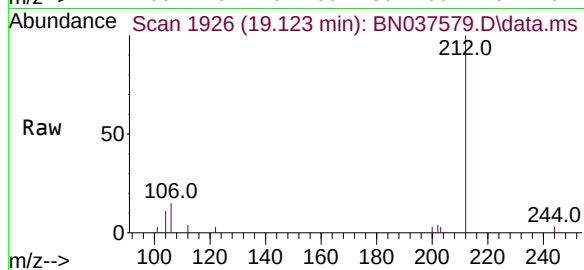
Tgt Ion:212 Resp: 2323

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.7 6.6 9.8



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

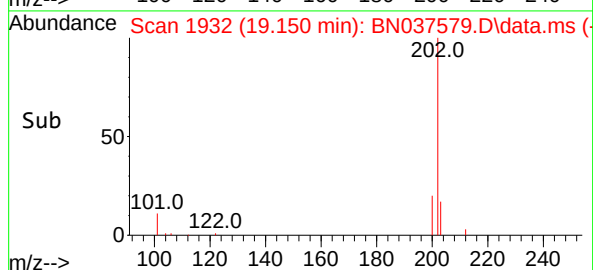
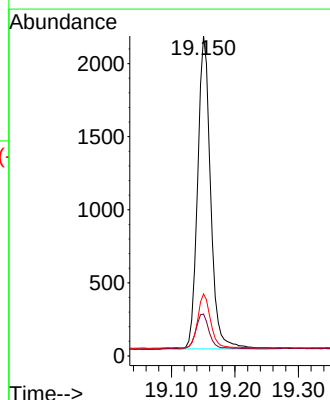
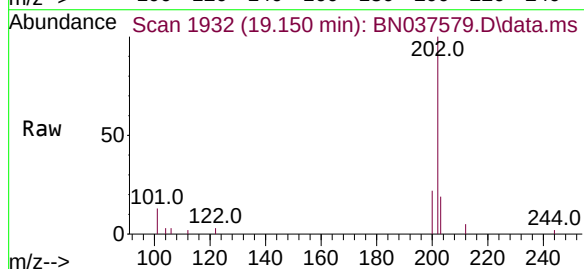
Tgt Ion:202 Resp: 3041

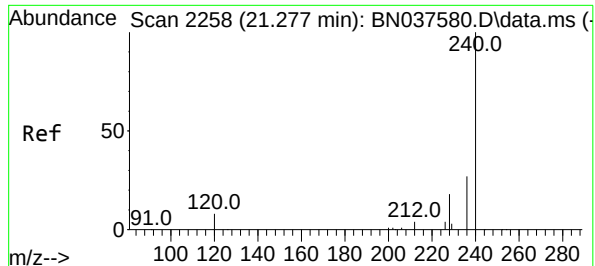
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 16.9 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

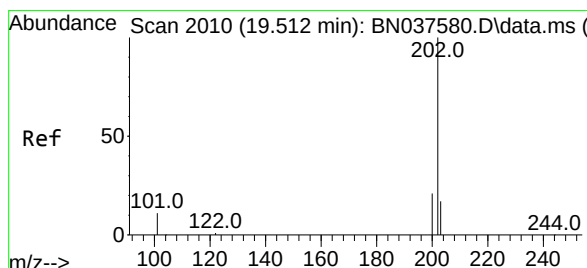
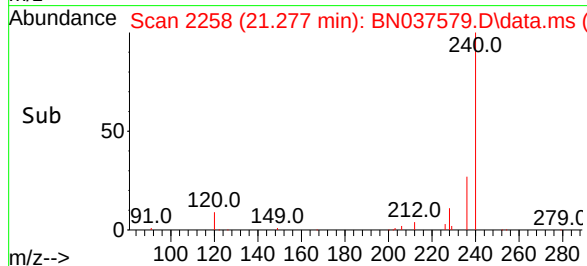
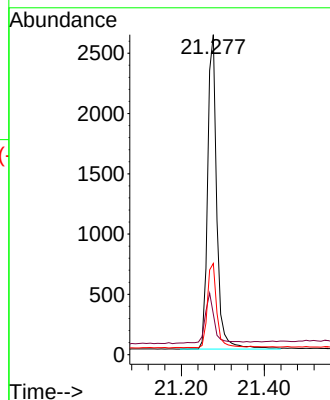
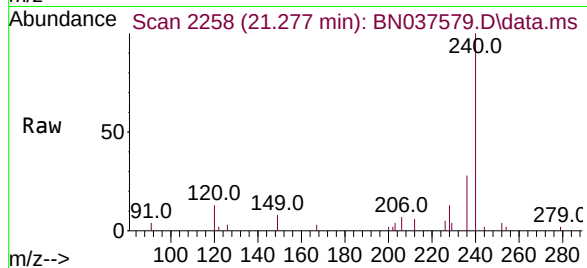
Tgt Ion:240 Resp: 4019

Ion Ratio Lower Upper

240 100

120 12.7 8.9 13.3

236 28.5 22.6 33.8



#30

Pyrene

Concen: 0.199 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

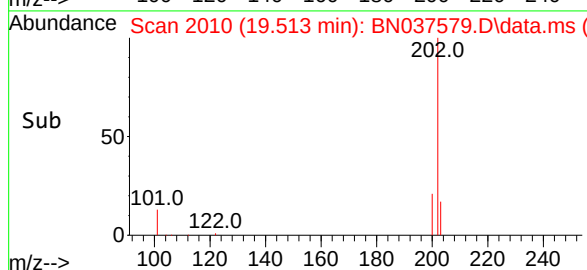
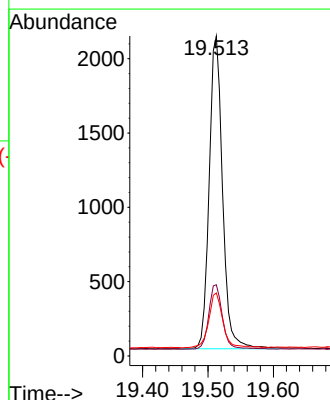
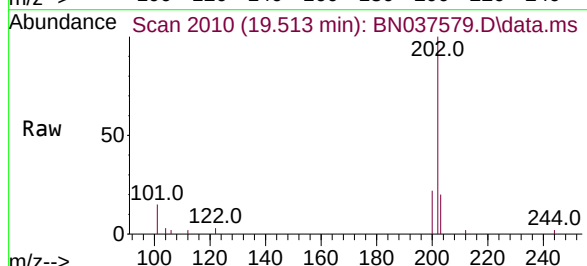
Tgt Ion:202 Resp: 2987

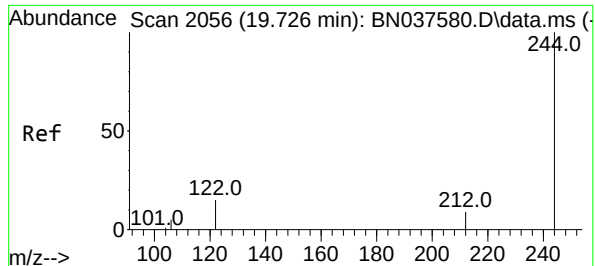
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.5 14.3 21.5





#31

Terphenyl-d14

Concen: 0.195 ng

RT: 19.726 min Scan# 2056

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

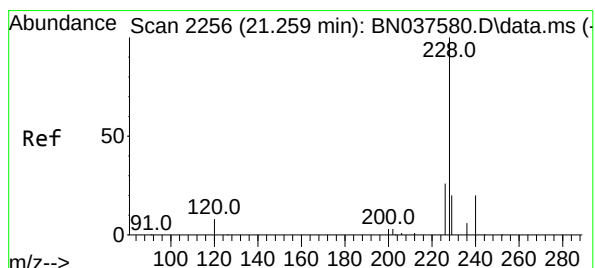
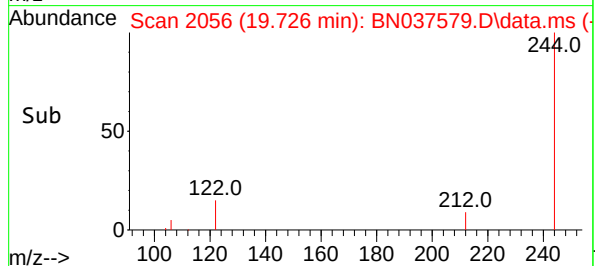
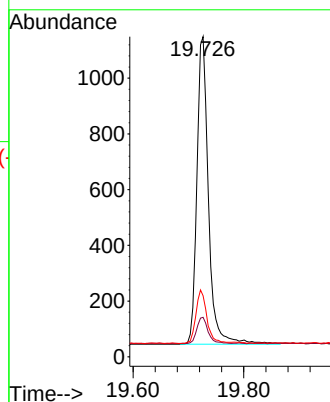
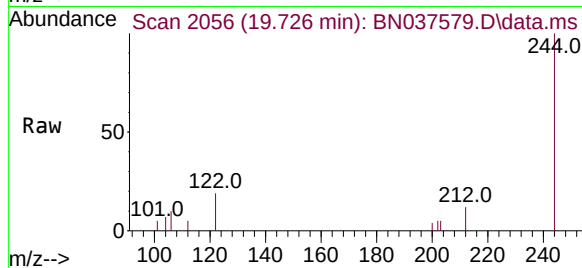
Tgt Ion:244 Resp: 1609

Ion Ratio Lower Upper

244 100

212 12.4 8.2 12.2#

122 19.1 13.2 19.8



#32

Benzo(a)anthracene

Concen: 0.191 ng

RT: 21.259 min Scan# 2256

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

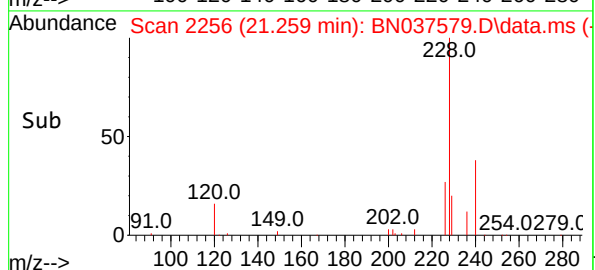
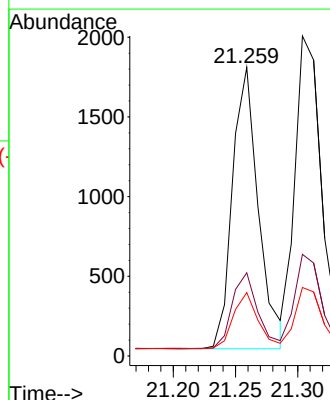
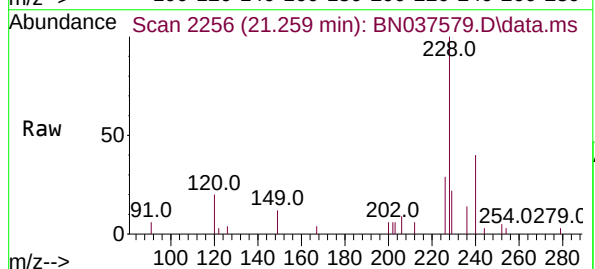
Tgt Ion:228 Resp: 2563

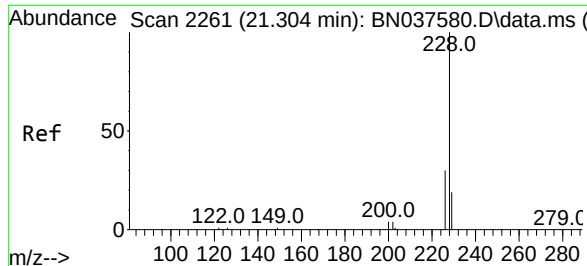
Ion Ratio Lower Upper

228 100

226 28.8 21.5 32.3

229 22.0 16.5 24.7





#33

Chrysene

Concen: 0.204 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

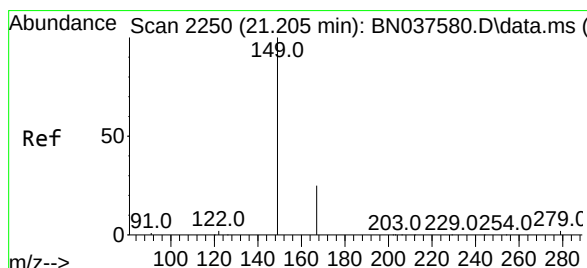
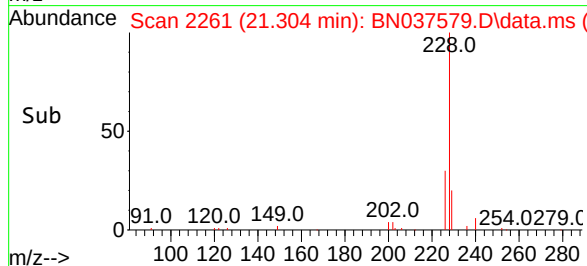
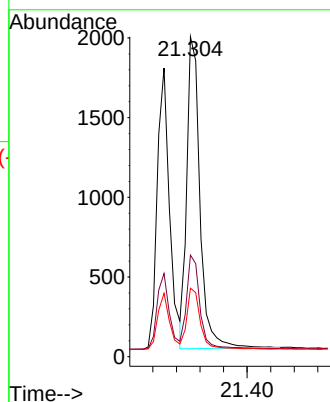
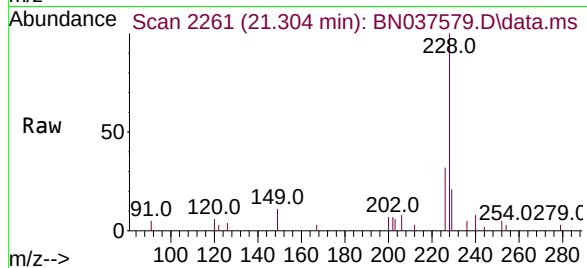
Tgt Ion:228 Resp: 3045

Ion Ratio Lower Upper

228 100

226 31.8 24.9 37.3

229 21.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.188 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

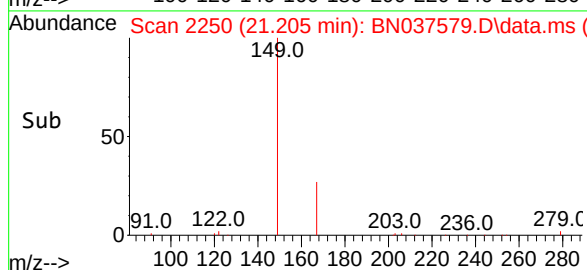
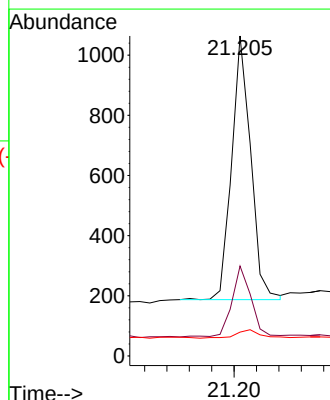
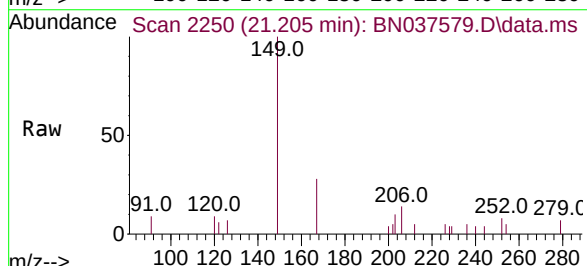
Tgt Ion:149 Resp: 1040

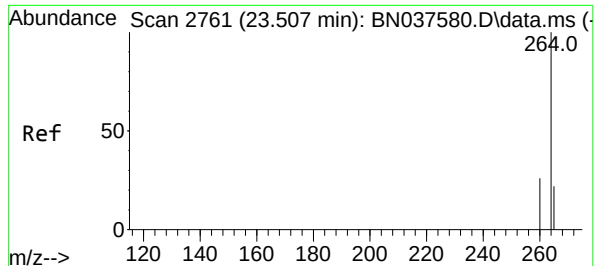
Ion Ratio Lower Upper

149 100

167 27.2 20.5 30.7

279 4.0 2.6 4.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

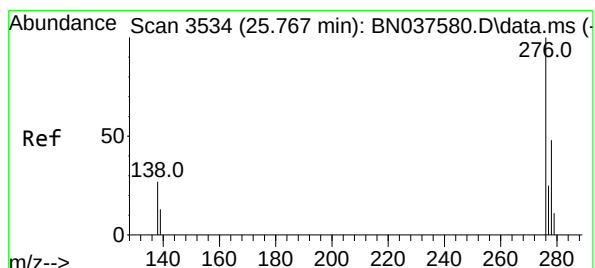
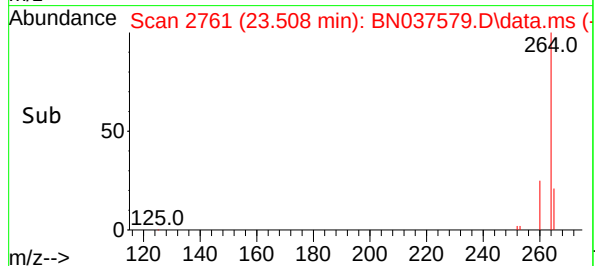
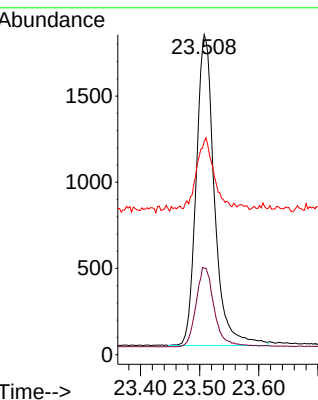
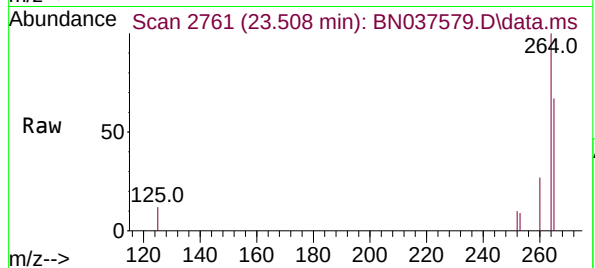
Tgt Ion:264 Resp: 3859

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 66.5 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.173 ng

RT: 25.771 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

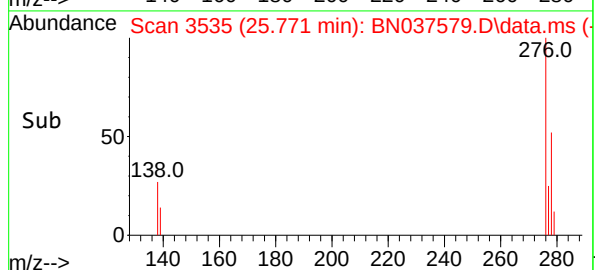
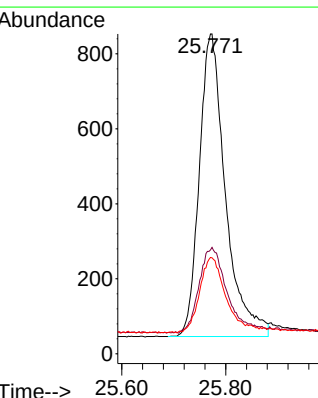
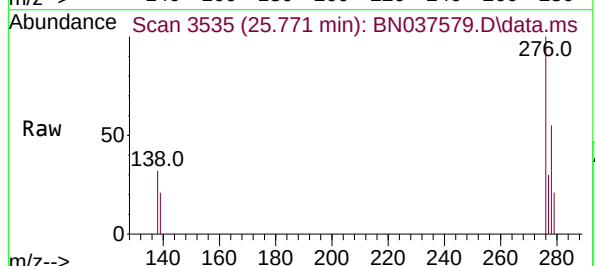
Tgt Ion:276 Resp: 2821

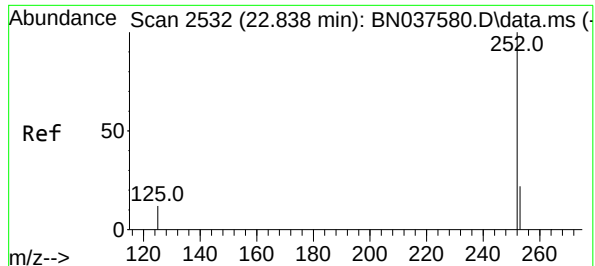
Ion Ratio Lower Upper

276 100

138 30.8 23.3 34.9

277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

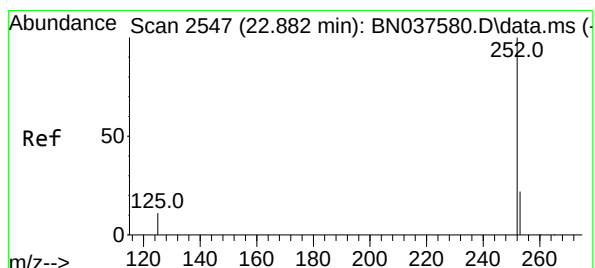
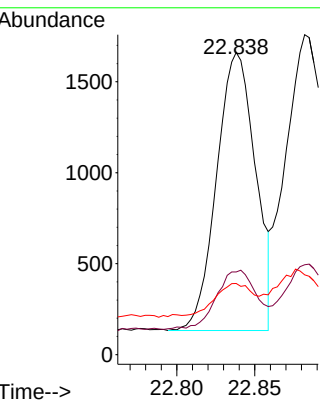
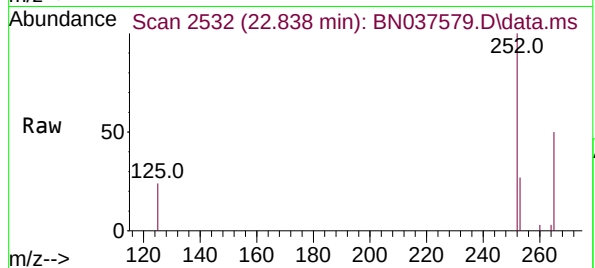
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 27.4 20.0 30.0

125 23.5 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 0.185 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

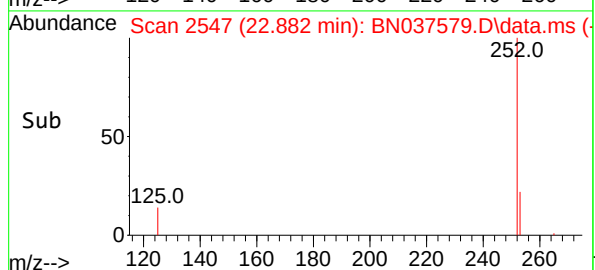
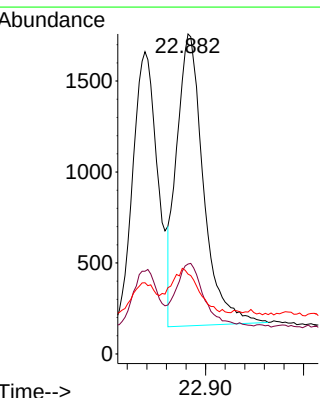
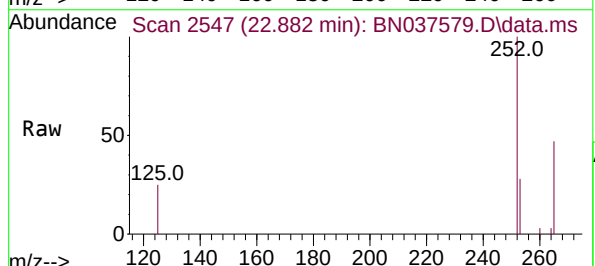
Tgt Ion:252 Resp: 3049

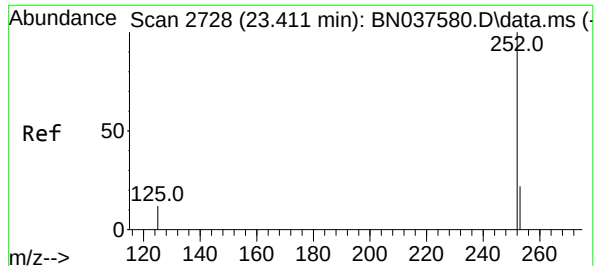
Ion Ratio Lower Upper

252 100

253 28.1 19.9 29.9

125 25.0 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.181 ng

RT: 23.414 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

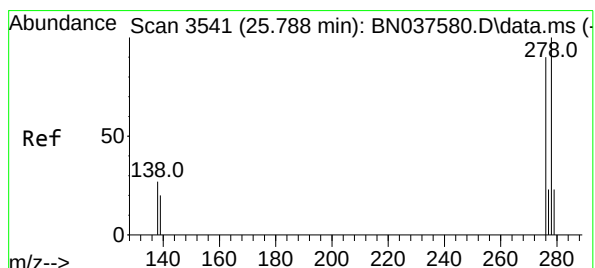
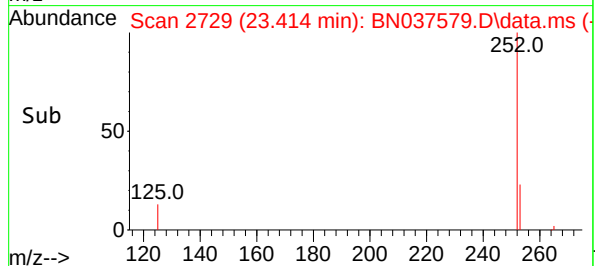
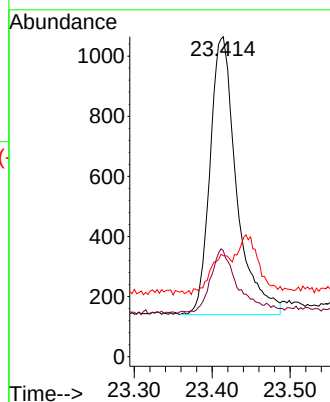
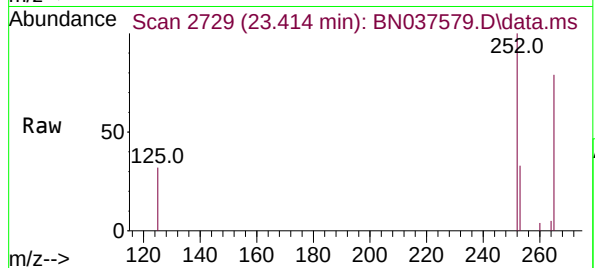
Tgt Ion:252 Resp: 2191

Ion Ratio Lower Upper

252 100

253 33.1 21.6 32.4#

125 31.5 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.171 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

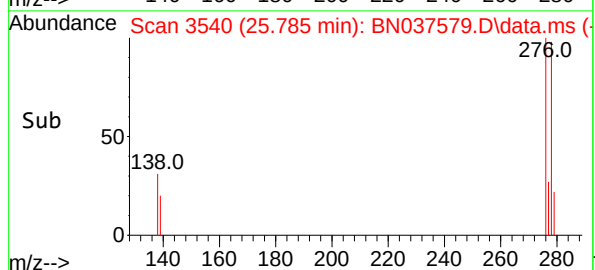
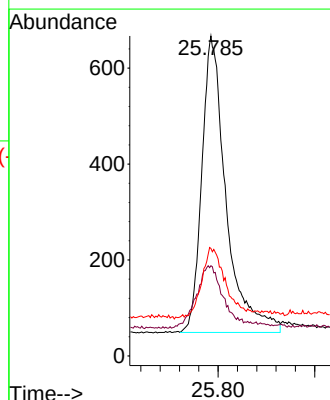
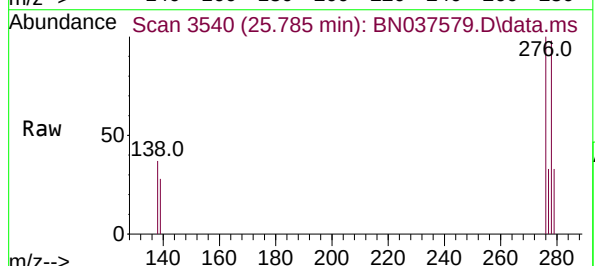
Tgt Ion:278 Resp: 2157

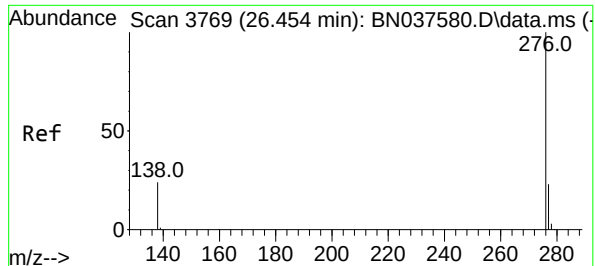
Ion Ratio Lower Upper

278 100

139 28.2 18.3 27.5#

279 33.6 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.185 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037579.D

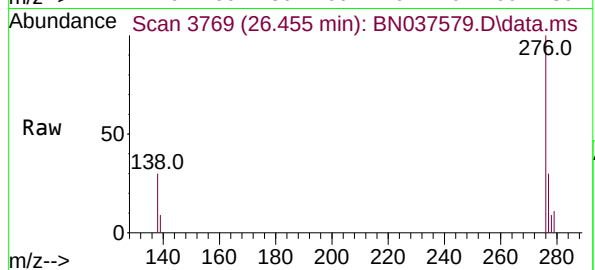
Acq: 12 Aug 2025 17:03

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



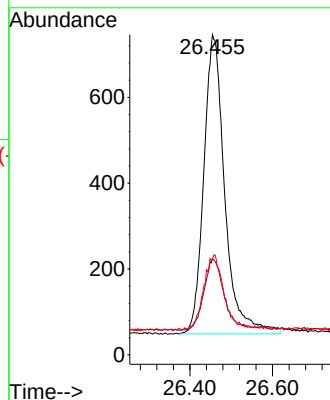
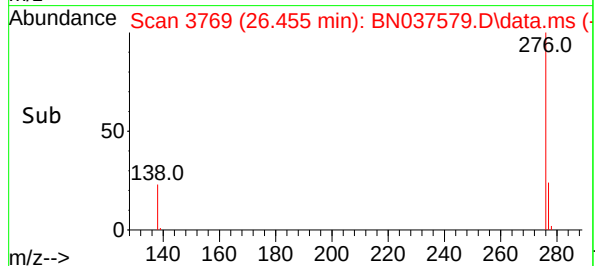
Tgt Ion:276 Resp: 2459

Ion Ratio Lower Upper

276 100

277 30.0 21.0 31.4

138 30.0 21.7 32.5



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

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

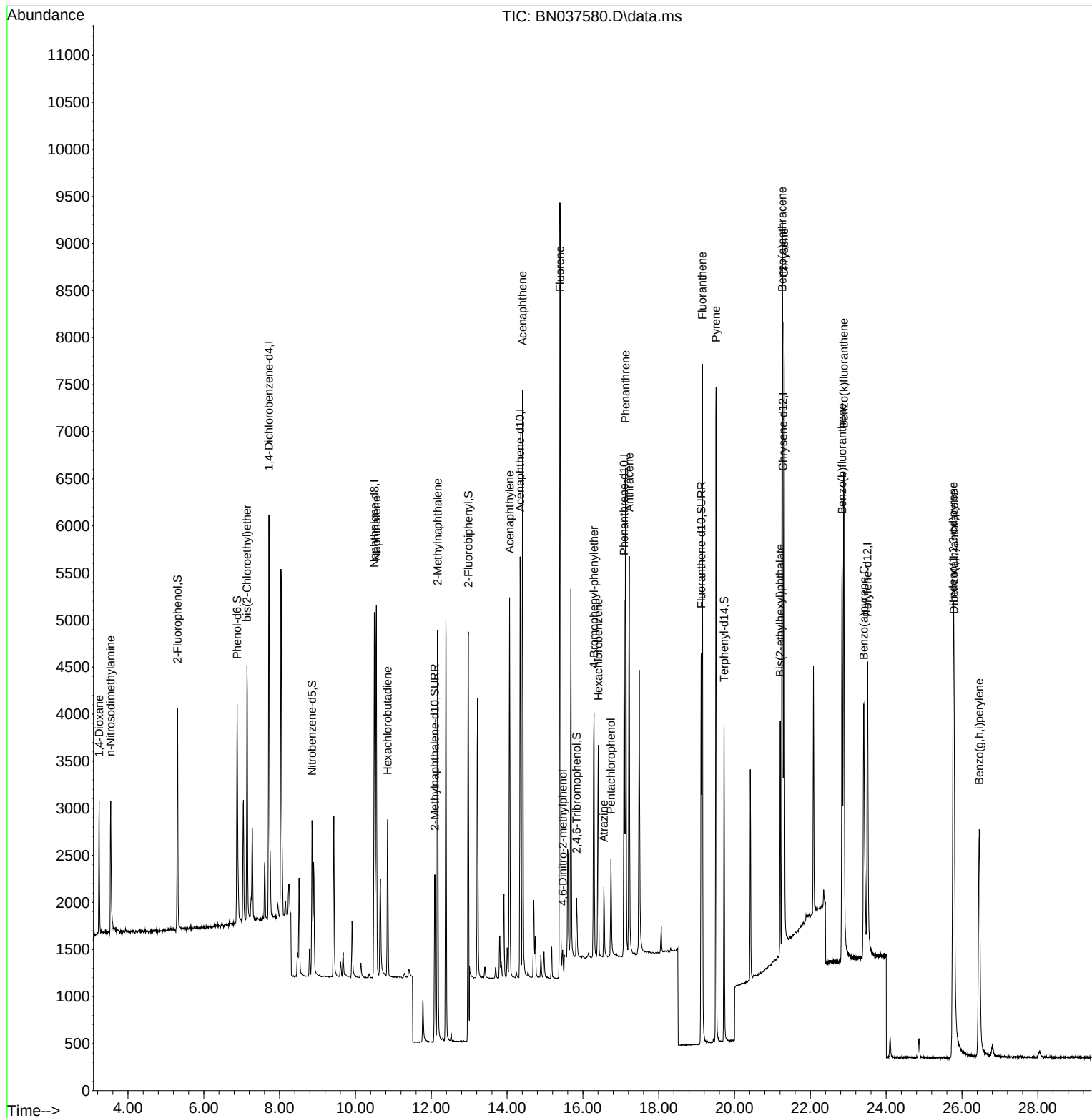
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2104	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5140	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2534	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5032	0.400	ng	0.00
29) Chrysene-d12	21.277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

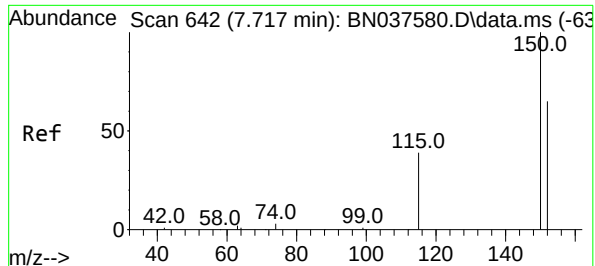
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

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

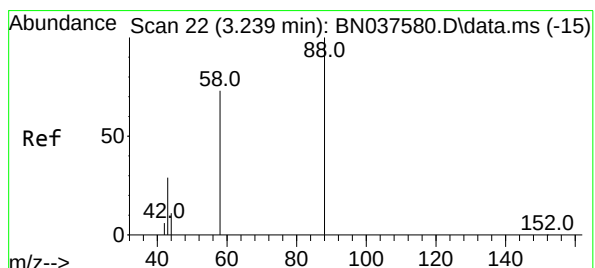
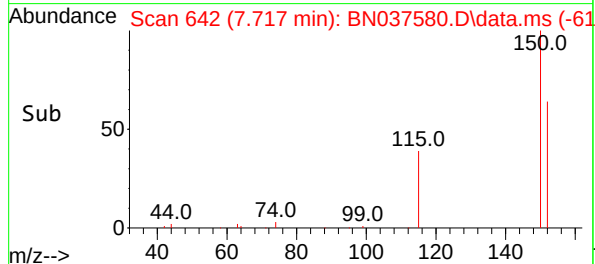
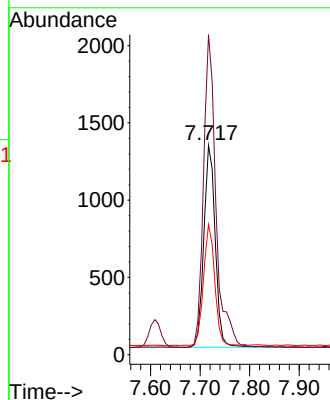
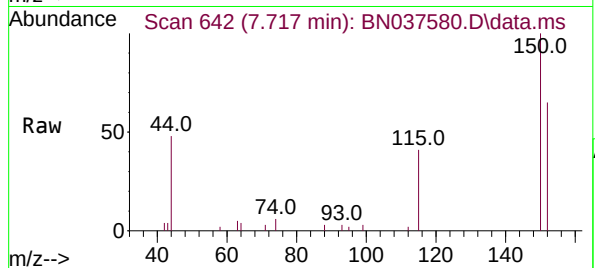




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

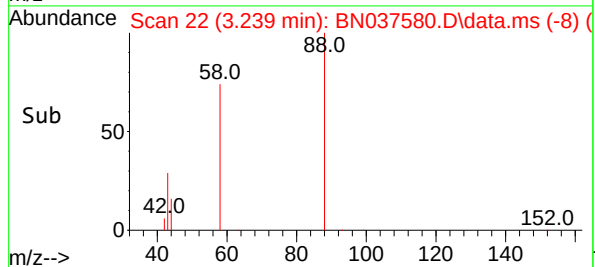
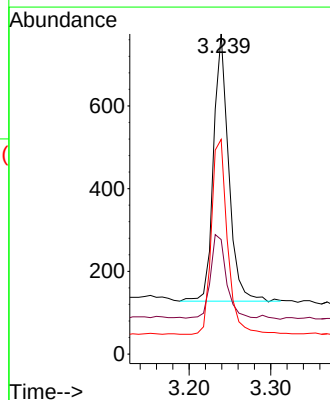
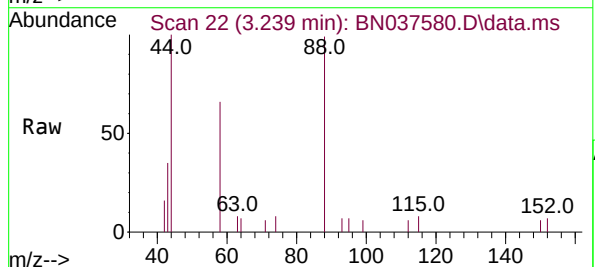
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

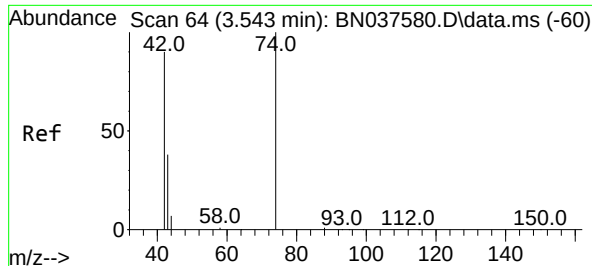
Tgt Ion:152 Resp: 2104
Ion Ratio Lower Upper
152 100
150 152.8 122.2 183.4
115 62.2 49.8 74.6



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

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

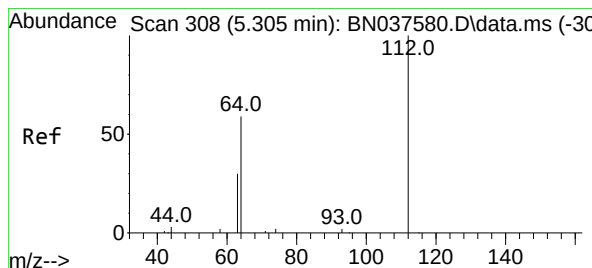
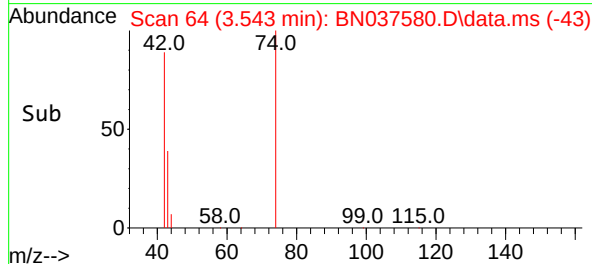
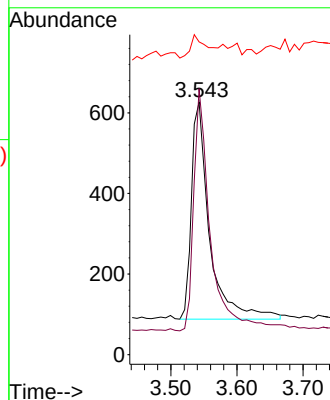
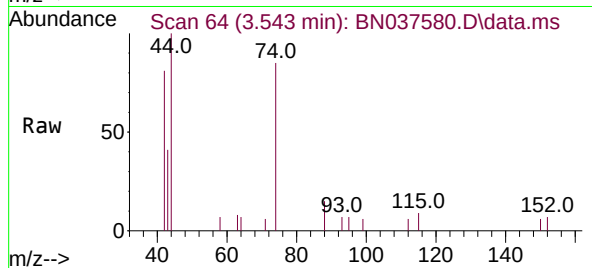




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

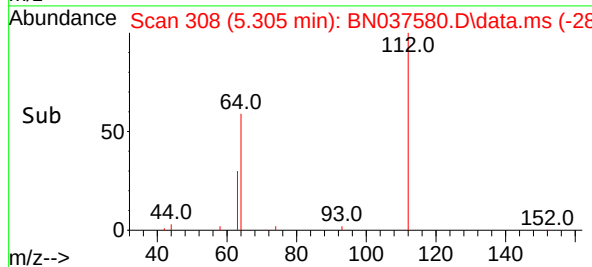
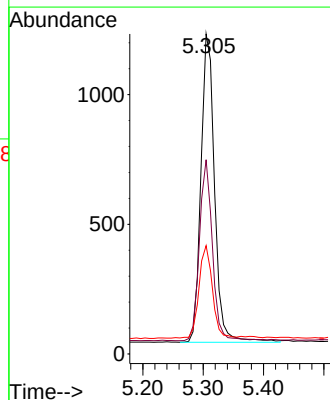
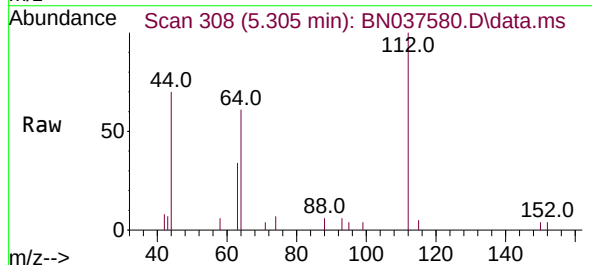
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

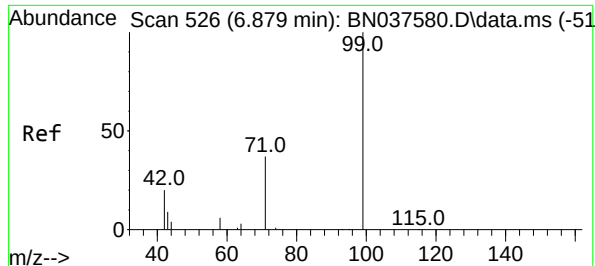
Tgt Ion: 42 Resp: 1027
Ion Ratio Lower Upper
42 100
74 102.7 82.0 123.0
44 9.8 7.9 11.9



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

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





#5

Phenol-d6

Concen: 0.383 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

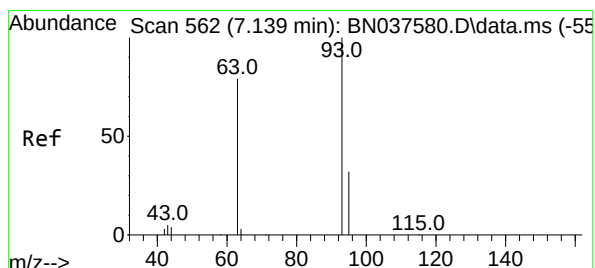
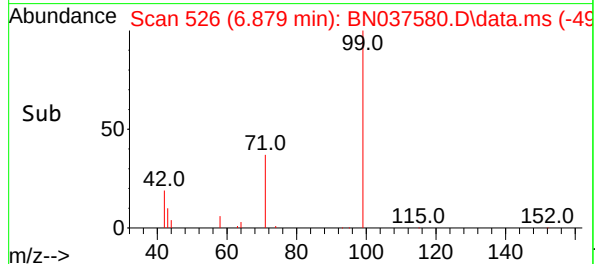
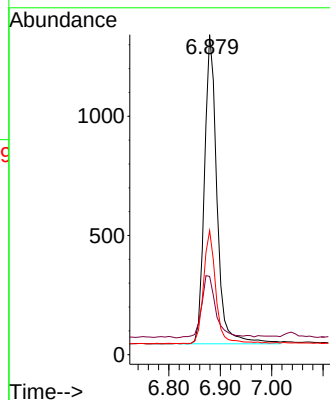
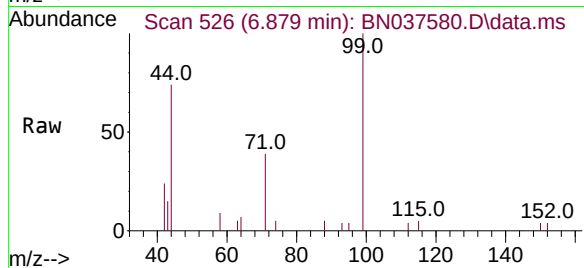
Tgt Ion: 99 Resp: 2197

Ion Ratio Lower Upper

99 100

42 23.1 18.5 27.7

71 35.7 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.397 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

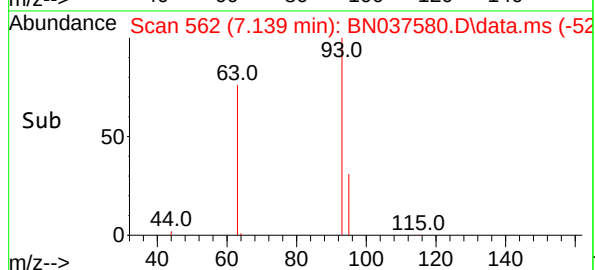
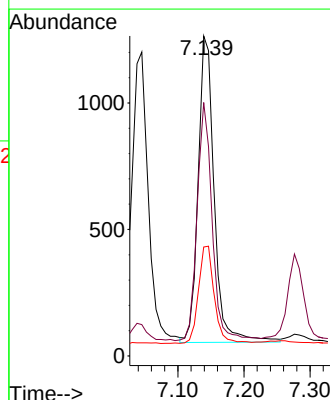
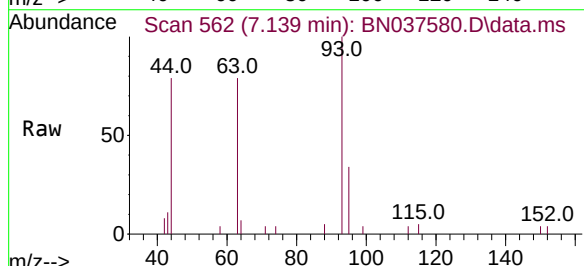
Tgt Ion: 93 Resp: 2053

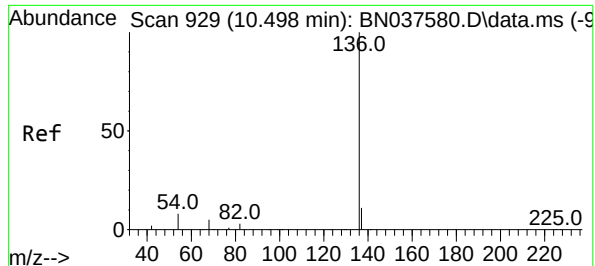
Ion Ratio Lower Upper

93 100

63 72.5 58.0 87.0

95 31.1 24.9 37.3

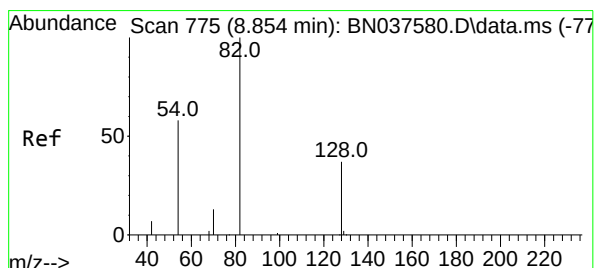
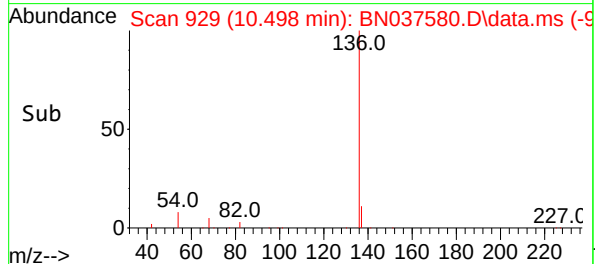
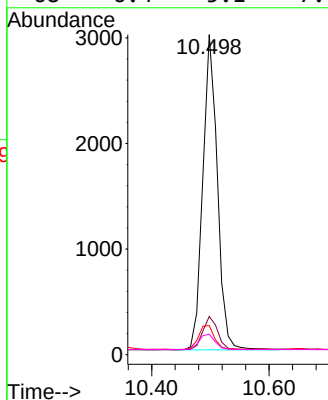
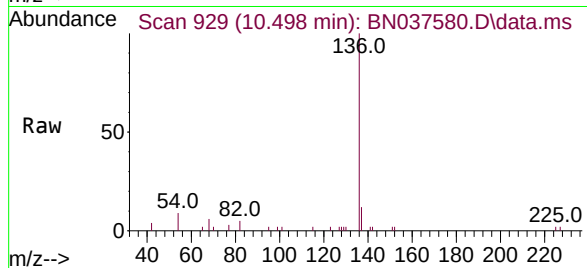




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

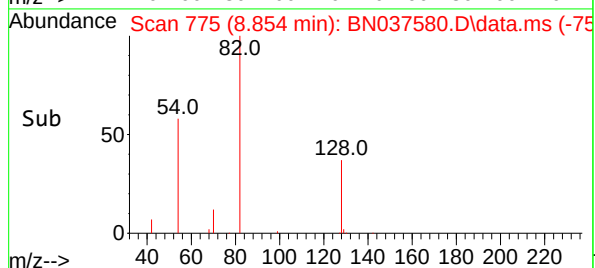
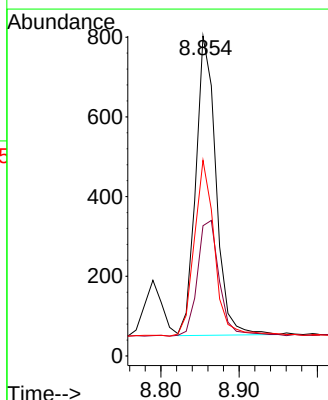
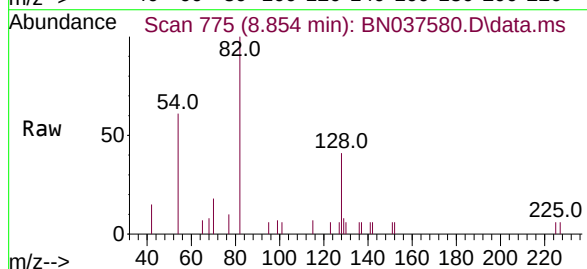
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

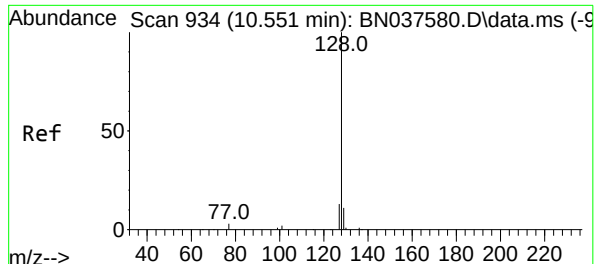
Tgt Ion:	136	Resp:	5140
Ion	Ratio	Lower	Upper
136	100		
137	11.9	9.5	14.3
54	9.1	7.3	10.9
68	6.4	5.1	7.7



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

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





#9

Naphthalene

Concen: 0.389 ng

RT: 10.551 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

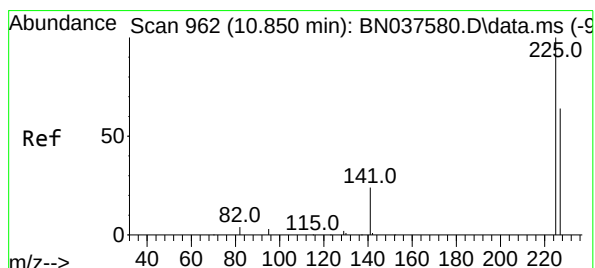
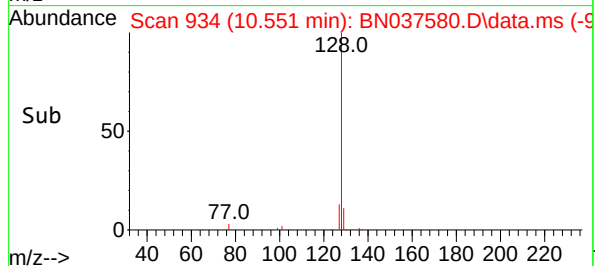
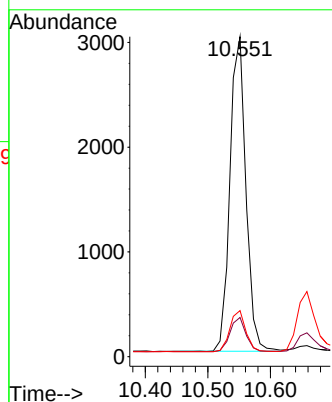
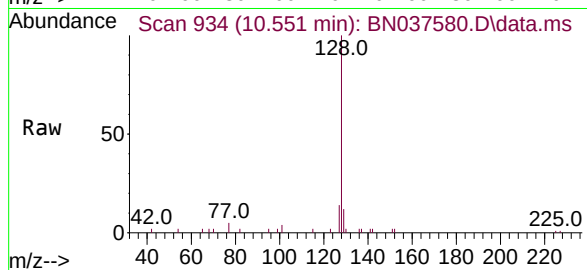
Tgt Ion:128 Resp: 5329

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.4 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.403 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

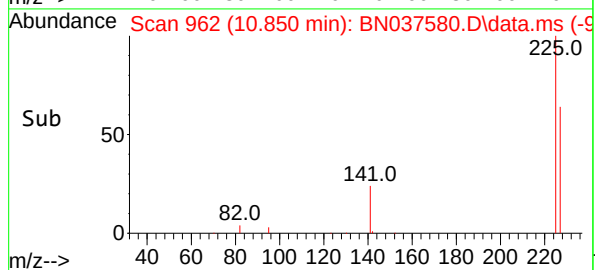
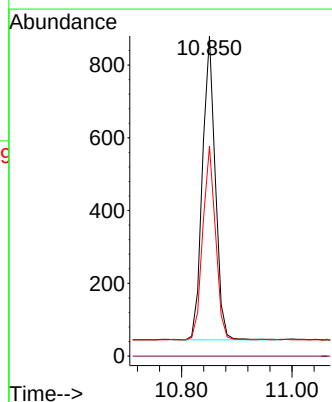
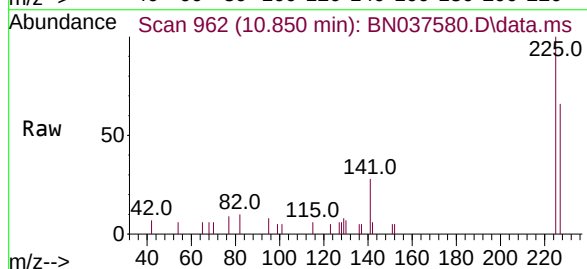
Tgt Ion:225 Resp: 1347

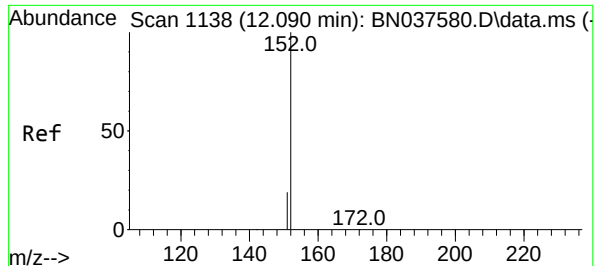
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 50.8 76.2

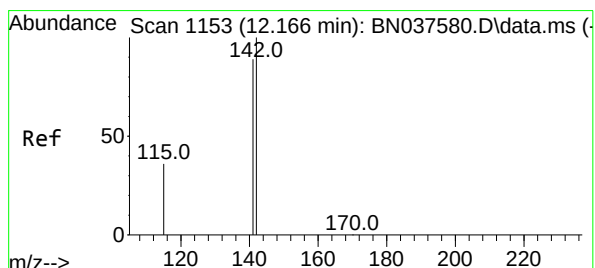
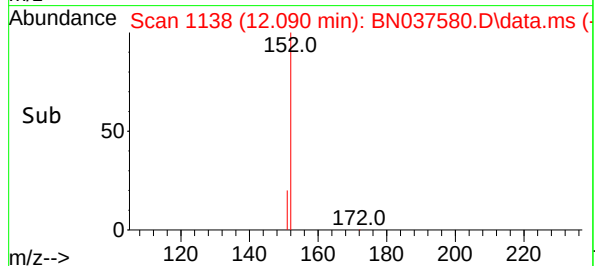
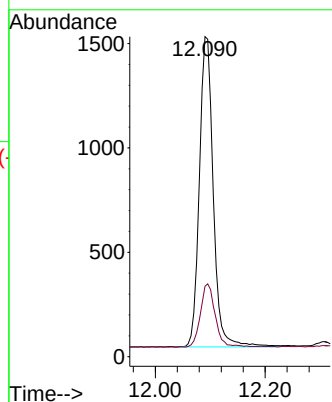
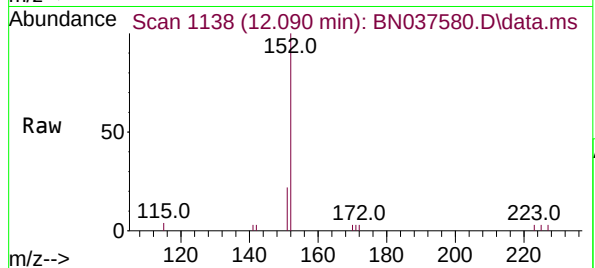




#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 12.090 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

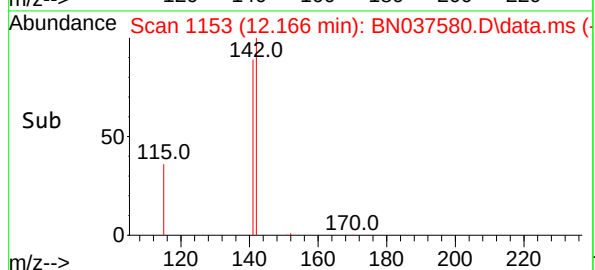
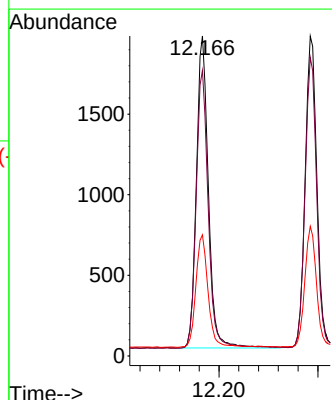
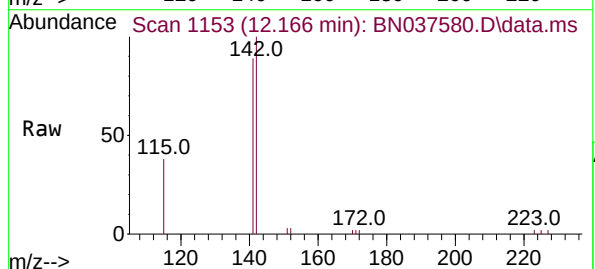
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

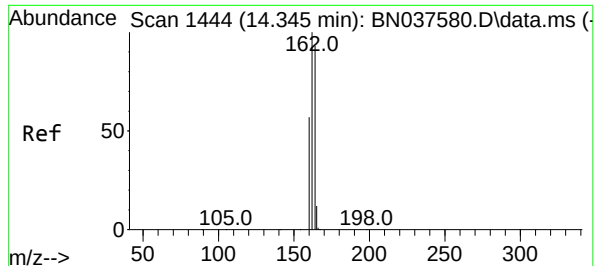
Tgt Ion:152 Resp: 2609
Ion Ratio Lower Upper
152 100
151 21.6 17.3 25.9



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

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

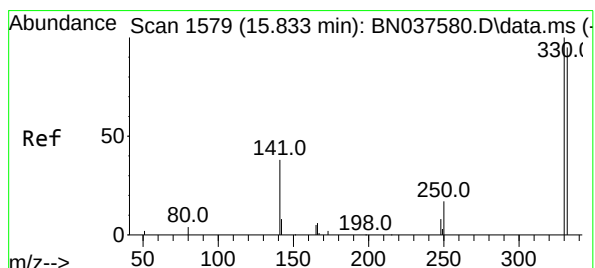
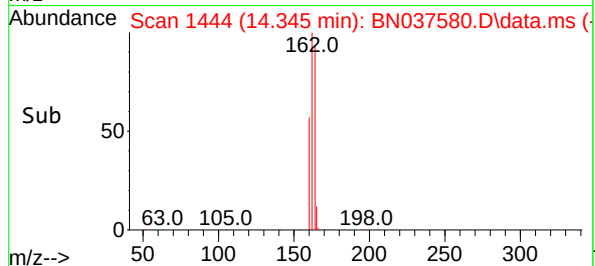
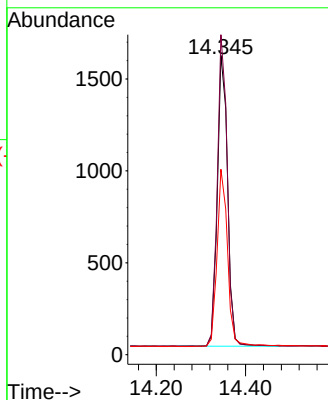
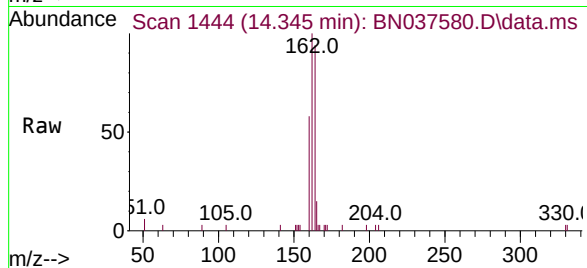




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

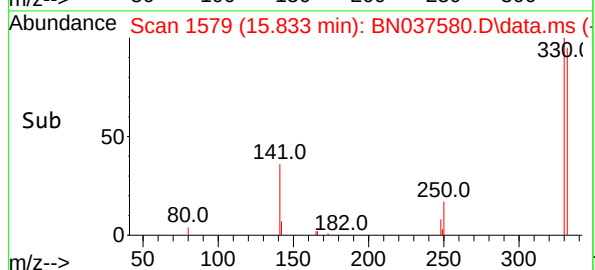
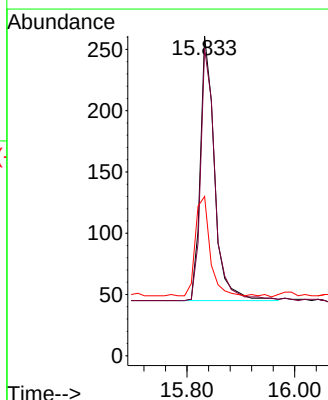
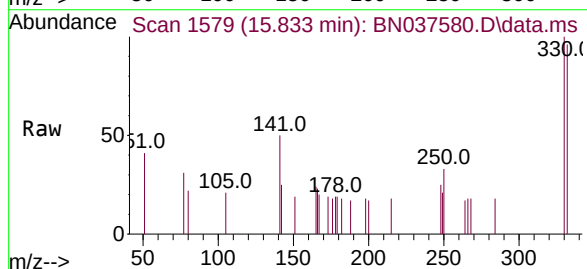
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

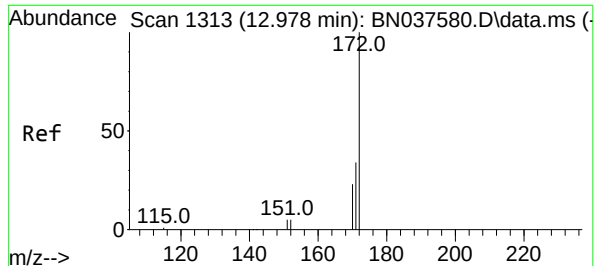
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.9	85.5	128.3
160	61.9	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.357 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.4	116.0
141	38.6	30.9	46.3





#15

2-Fluorobiphenyl

Concen: 0.398 ng

RT: 12.978 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

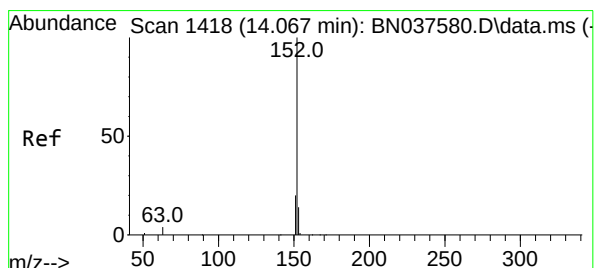
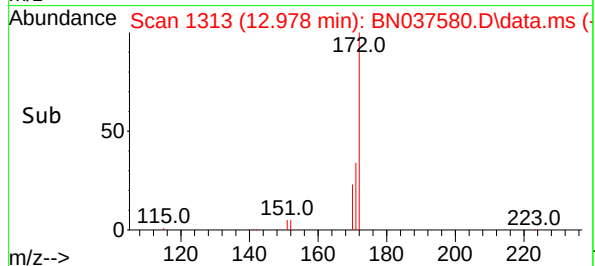
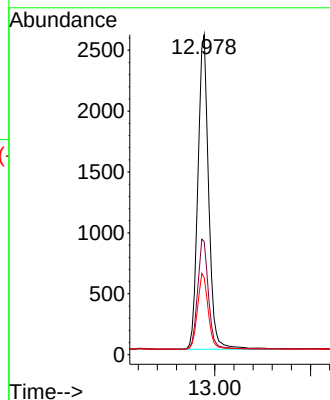
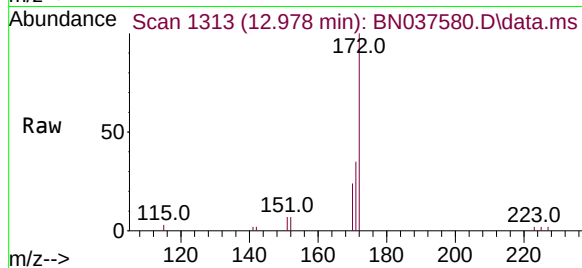
Tgt Ion:172 Resp: 5829

Ion Ratio Lower Upper

172 100

171 35.3 28.2 42.4

170 24.0 19.2 28.8



#16

Acenaphthylene

Concen: 0.382 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

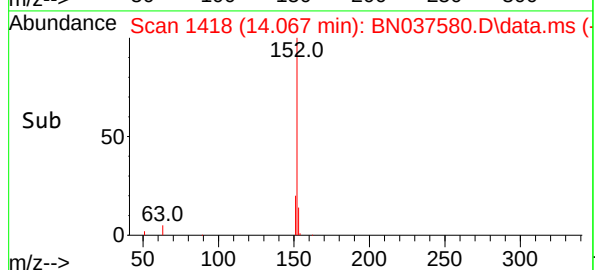
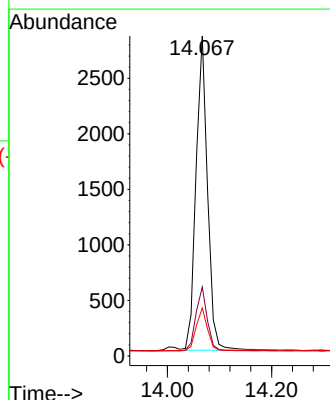
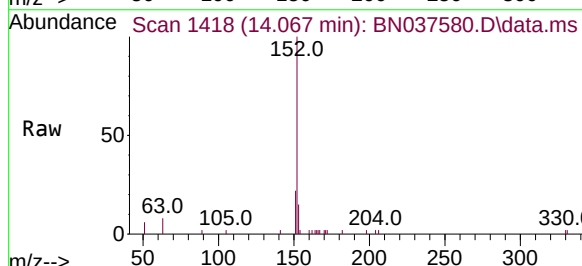
Tgt Ion:152 Resp: 4334

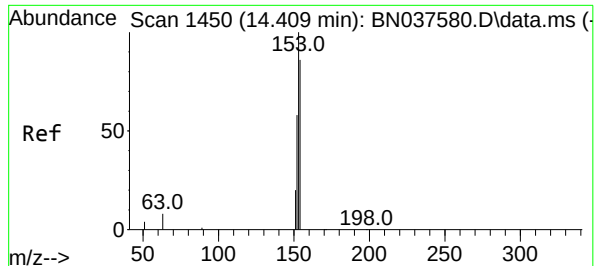
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 13.4 10.7 16.1





#17

Acenaphthene

Concen: 0.384 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

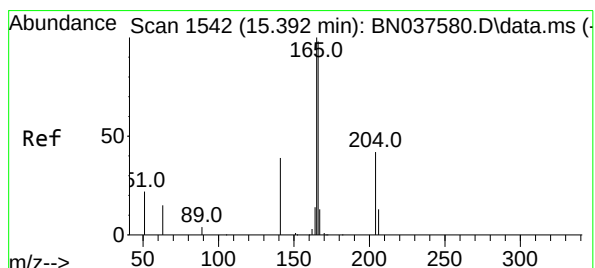
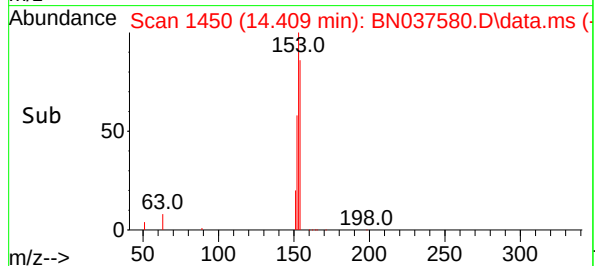
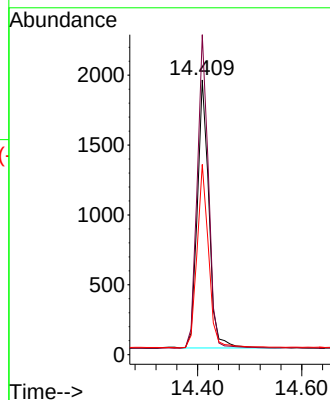
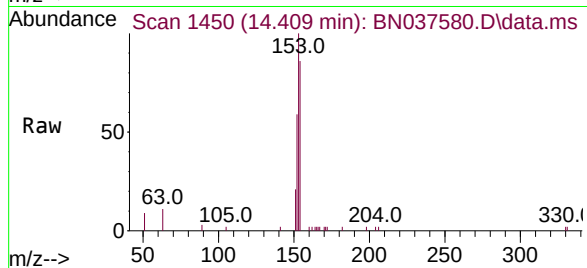
Tgt Ion:154 Resp: 2969

Ion Ratio Lower Upper

154 100

153 113.2 90.6 135.8

152 68.6 54.9 82.3



#18

Fluorene

Concen: 0.382 ng

RT: 15.392 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

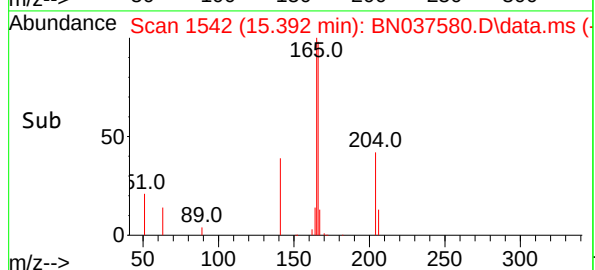
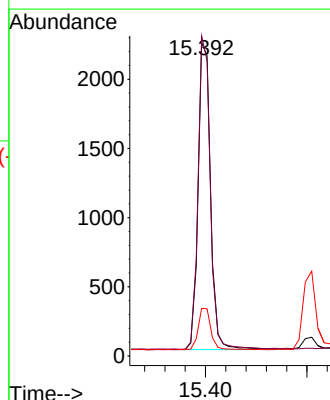
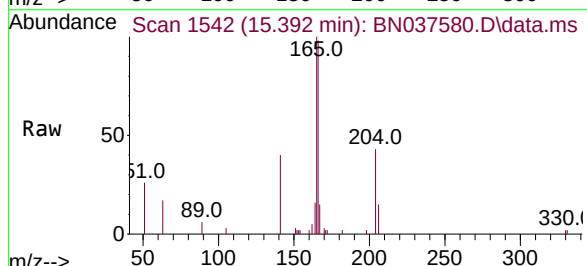
Tgt Ion:166 Resp: 3861

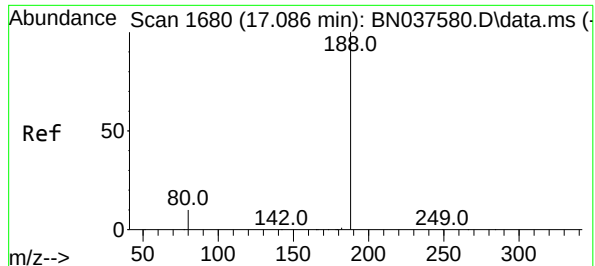
Ion Ratio Lower Upper

166 100

165 98.6 78.9 118.3

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

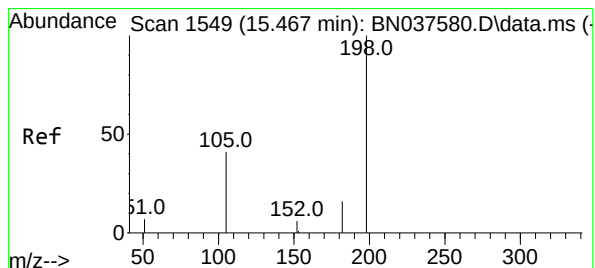
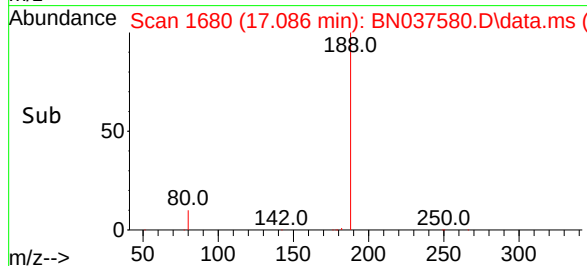
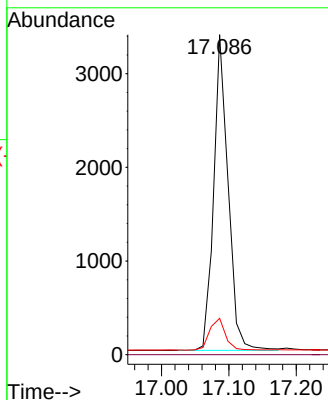
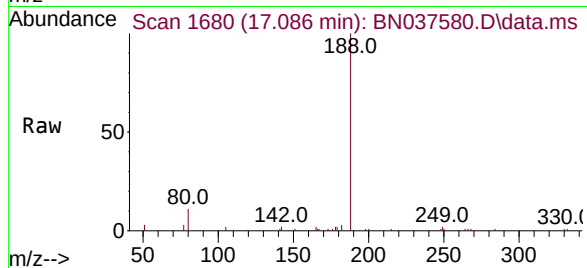
Tgt Ion:188 Resp: 5032

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

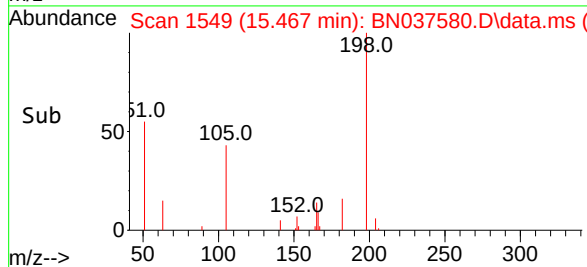
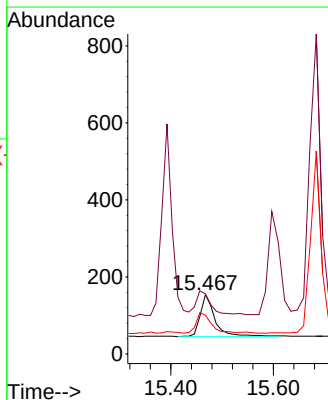
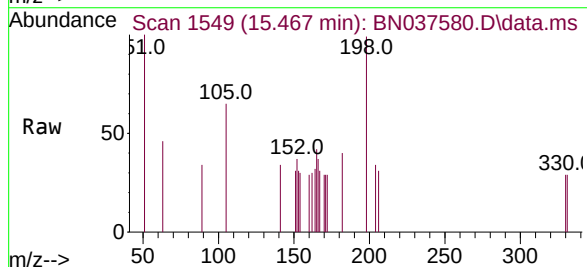
Tgt Ion:198 Resp: 231

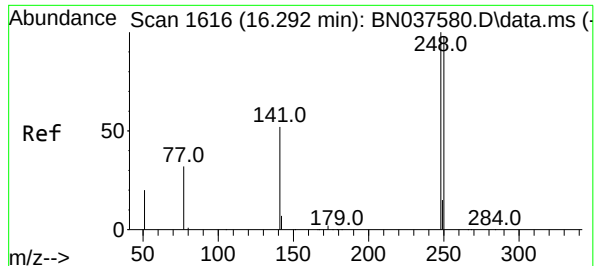
Ion Ratio Lower Upper

198 100

51 101.3 81.0 121.6

105 65.6 52.5 78.7

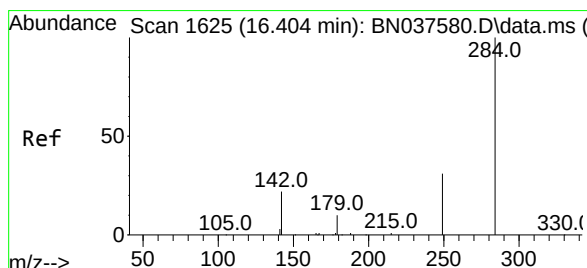
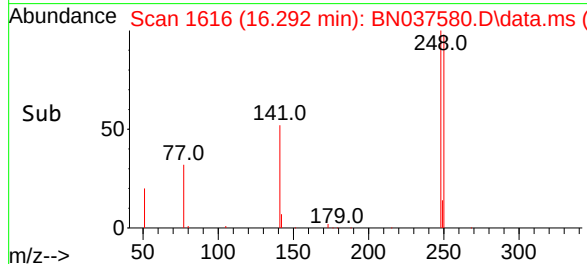
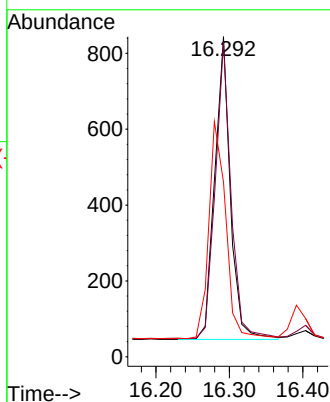
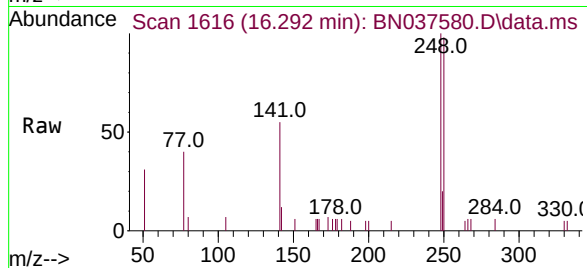




#21
4-Bromophenyl-phenylether
Concen: 0.372 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

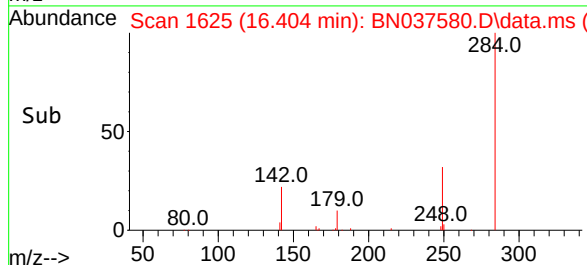
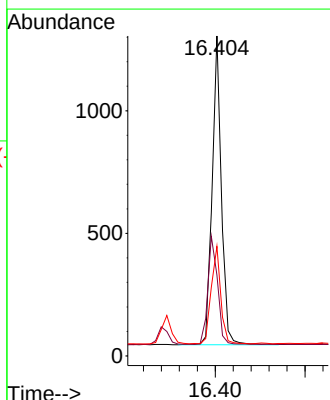
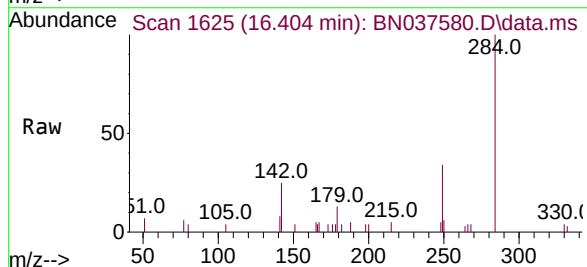
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

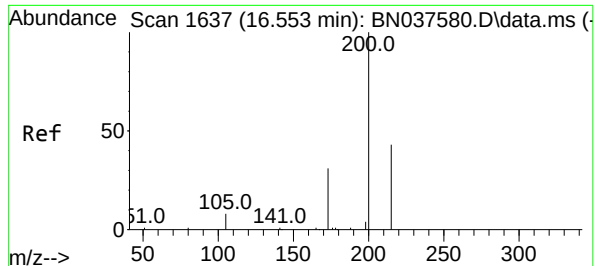
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.6	118.0
141	54.6	43.7	65.5



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

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





#23

Atrazine

Concen: 0.366 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

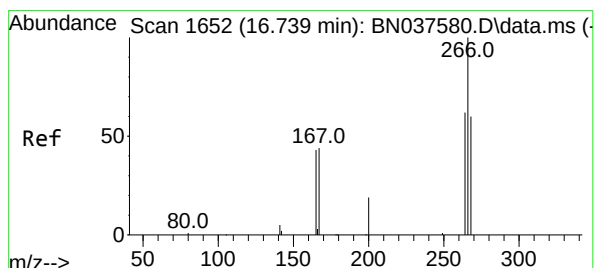
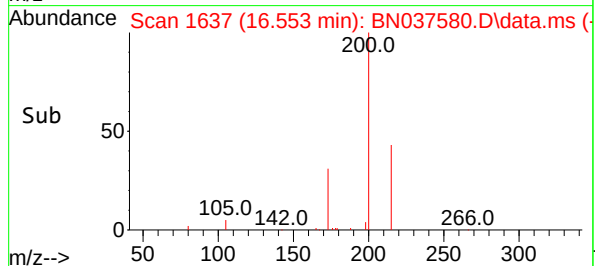
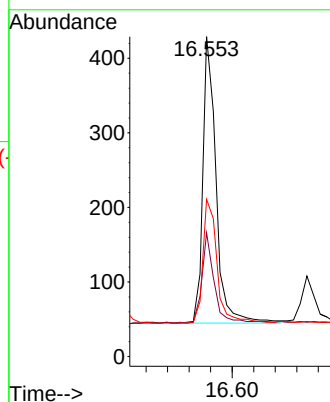
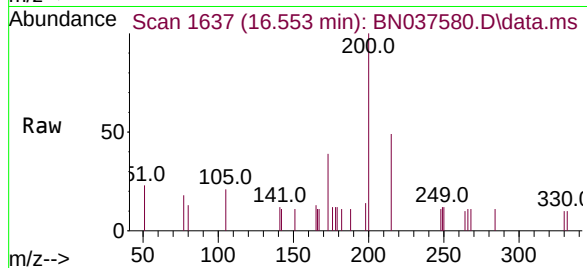
Tgt Ion:200 Resp: 654

Ion Ratio Lower Upper

200 100

173 38.7 31.0 46.4

215 49.2 39.4 59.0



#24

Pentachlorophenol

Concen: 0.363 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

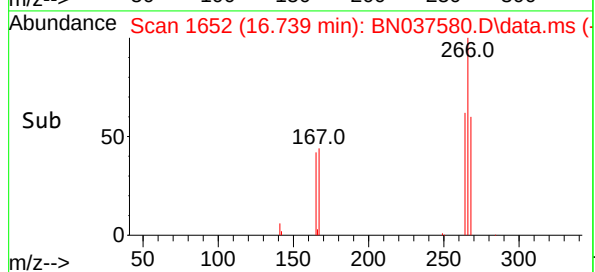
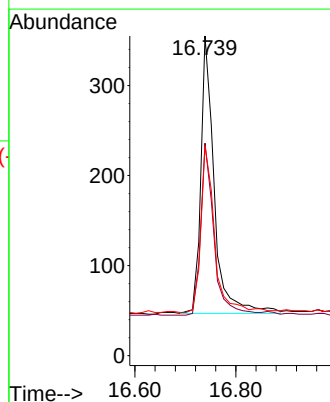
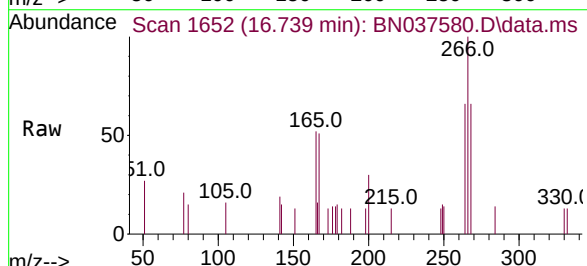
Tgt Ion:266 Resp: 571

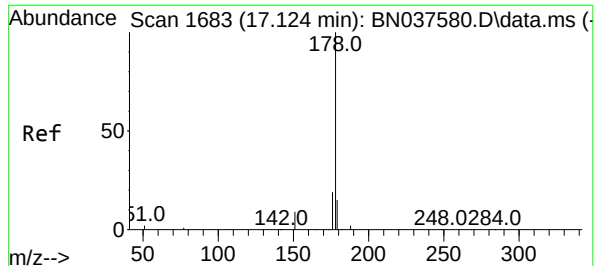
Ion Ratio Lower Upper

266 100

264 62.0 49.6 74.4

268 61.5 49.2 73.8

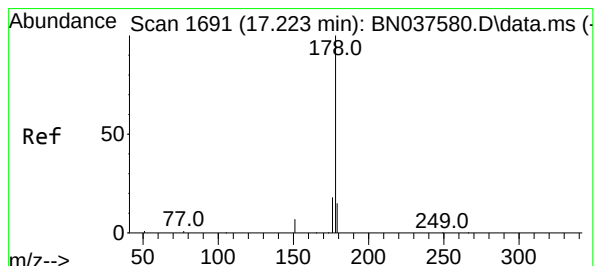
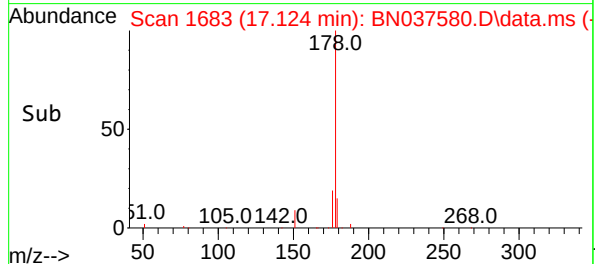
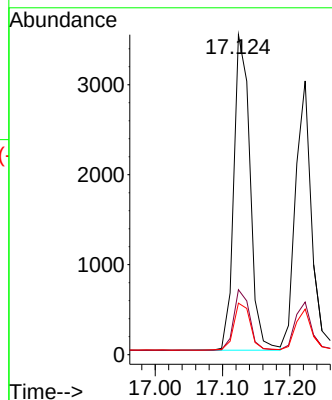
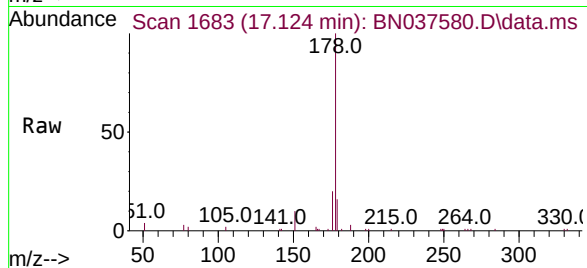




#25
Phenanthrene
Concen: 0.385 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

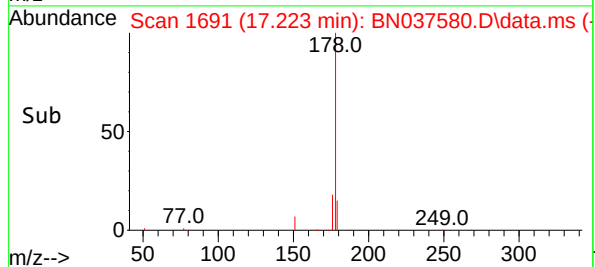
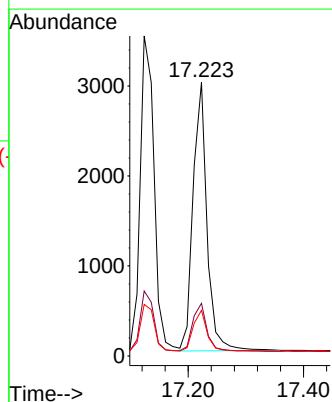
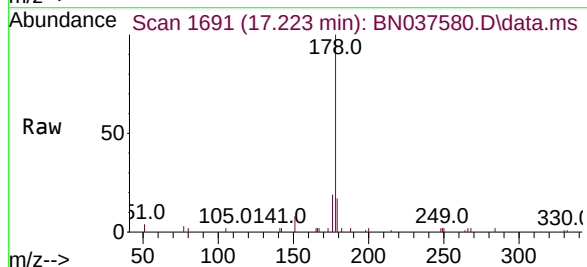
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

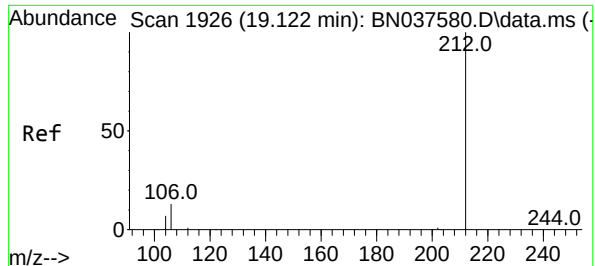
Tgt Ion:178 Resp: 5887
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5



#26
Anthracene
Concen: 0.370 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037580.D
Acq: 12 Aug 2025 17:39

Tgt Ion:178 Resp: 5009
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.122 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

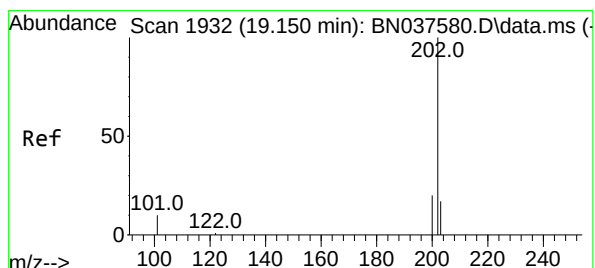
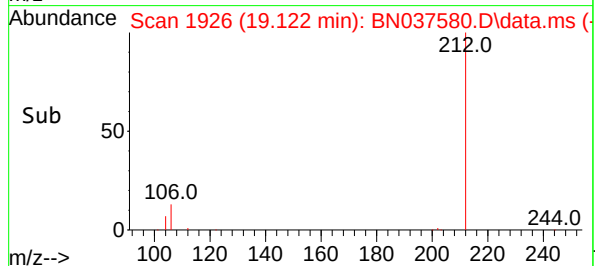
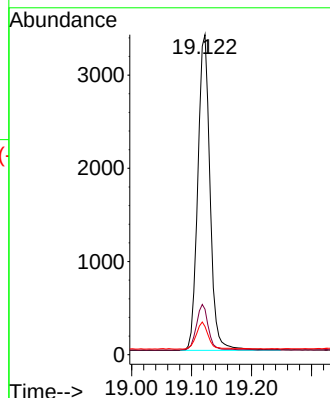
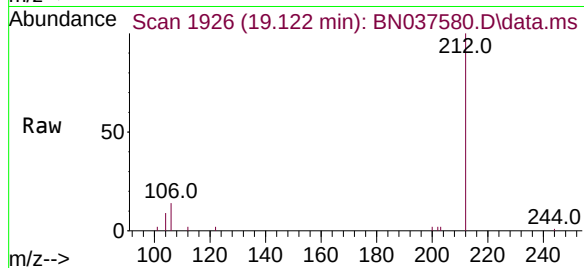
Tgt Ion:212 Resp: 4801

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

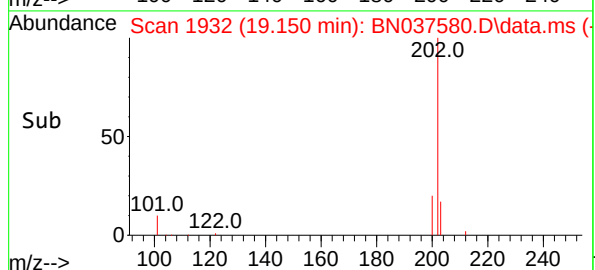
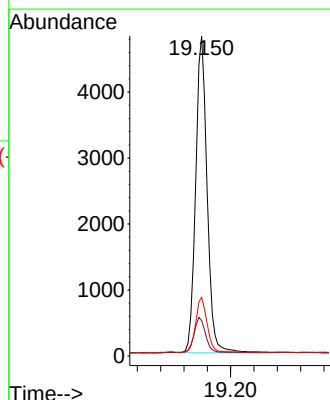
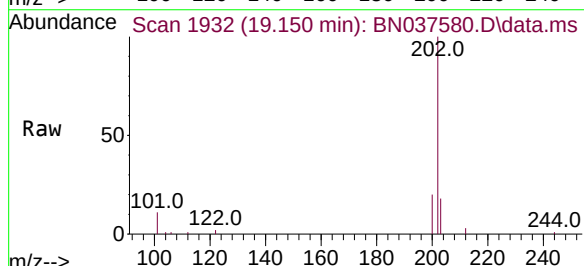
Tgt Ion:202 Resp: 6535

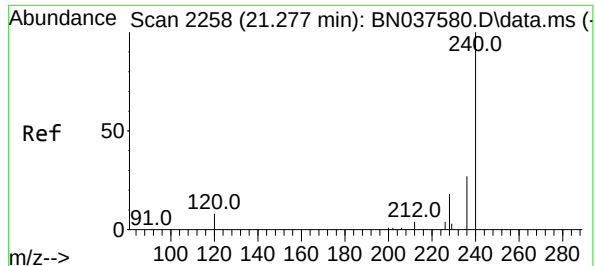
Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

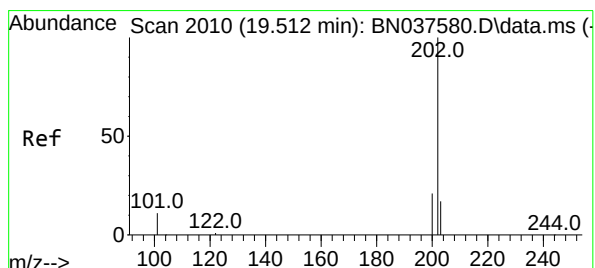
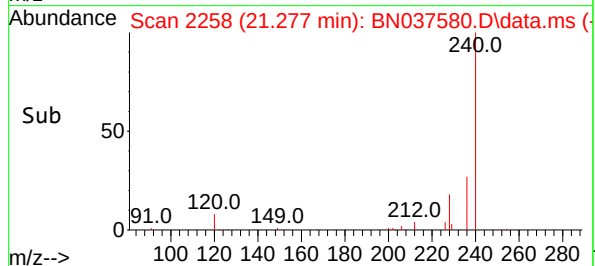
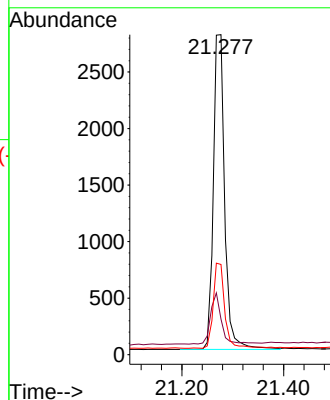
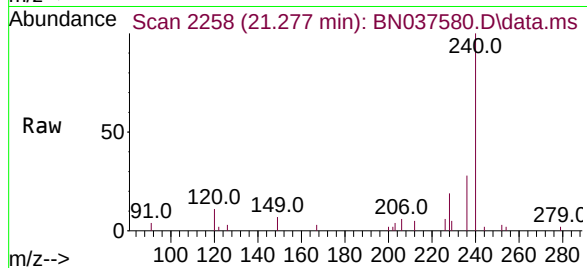
Tgt Ion:240 Resp: 4317

Ion Ratio Lower Upper

240 100

120 11.1 8.9 13.3

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.392 ng

RT: 19.512 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

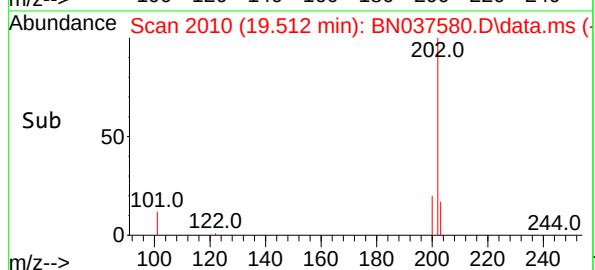
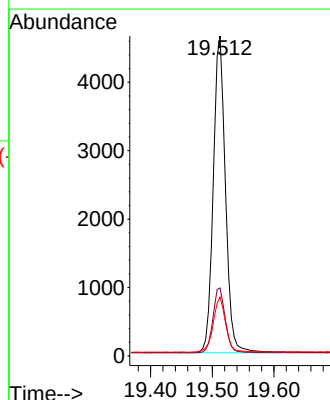
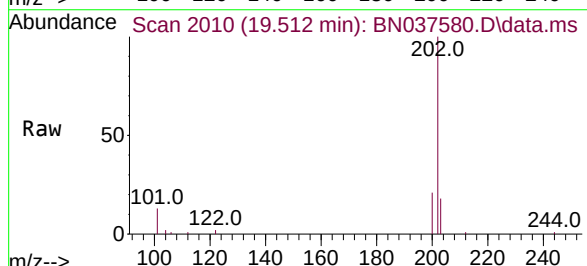
Tgt Ion:202 Resp: 6320

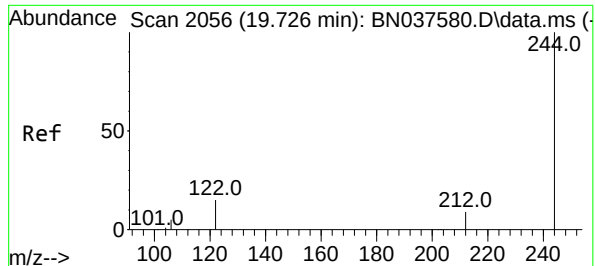
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.9 14.3 21.5





#31

Terphenyl-d14

Concen: 0.387 ng

RT: 19.726 min Scan# 2056

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

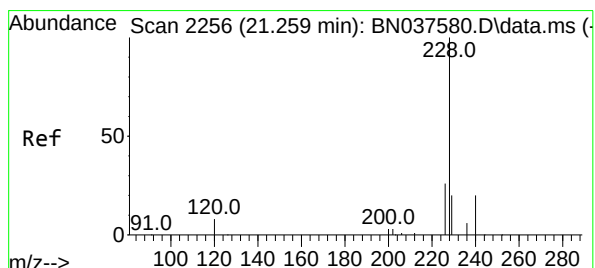
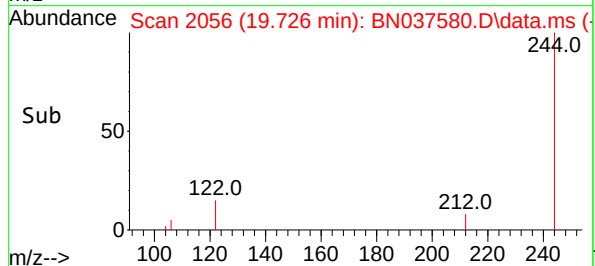
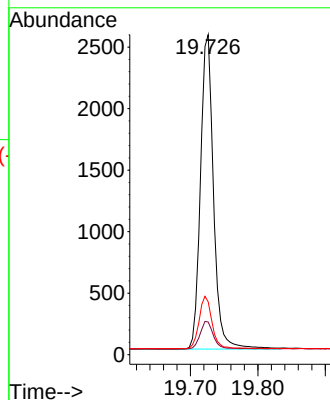
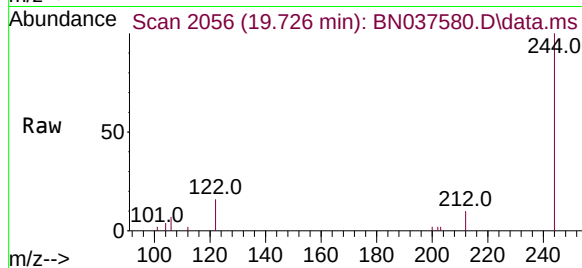
Tgt Ion:244 Resp: 3436

Ion Ratio Lower Upper

244 100

212 10.2 8.2 12.2

122 16.5 13.2 19.8



#32

Benzo(a)anthracene

Concen: 0.378 ng

RT: 21.259 min Scan# 2256

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

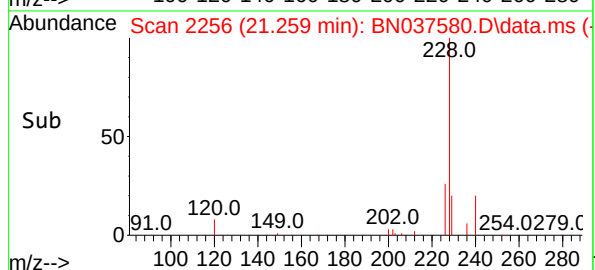
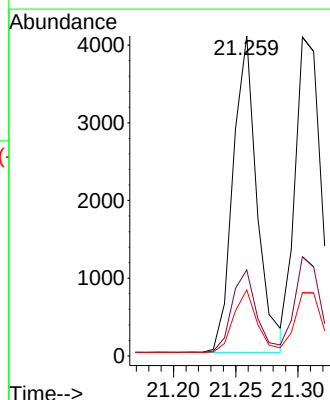
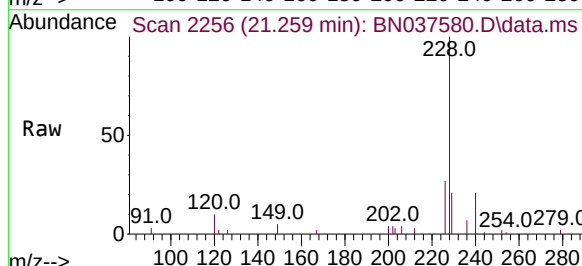
Tgt Ion:228 Resp: 5452

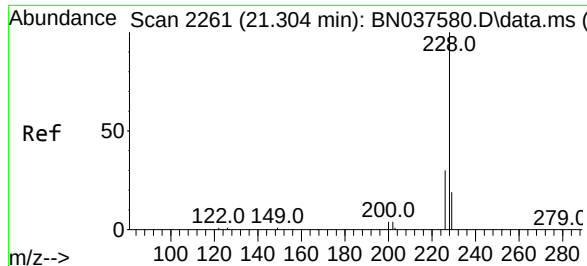
Ion Ratio Lower Upper

228 100

226 26.9 21.5 32.3

229 20.6 16.5 24.7





#33

Chrysene

Concen: 0.385 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

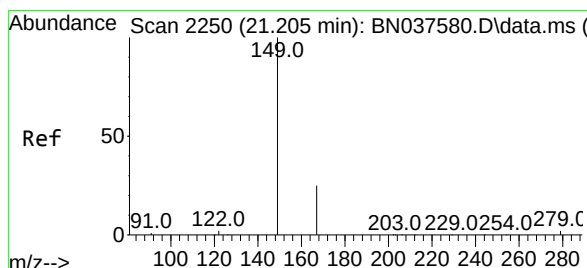
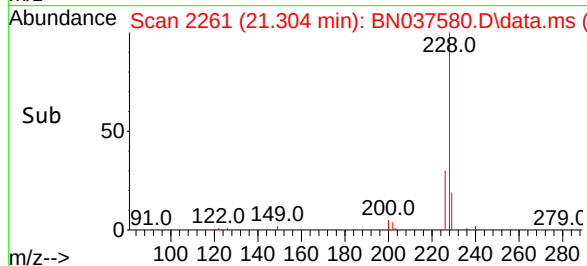
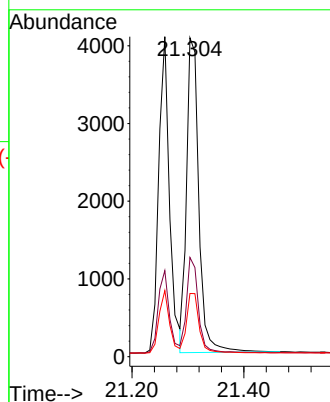
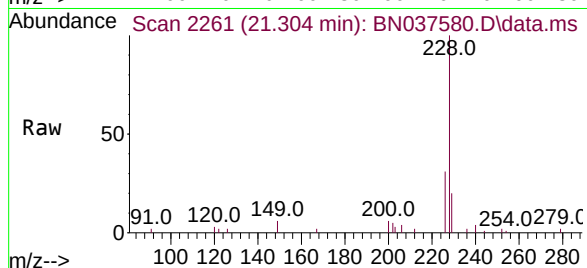
Tgt Ion:228 Resp: 6185

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.378 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

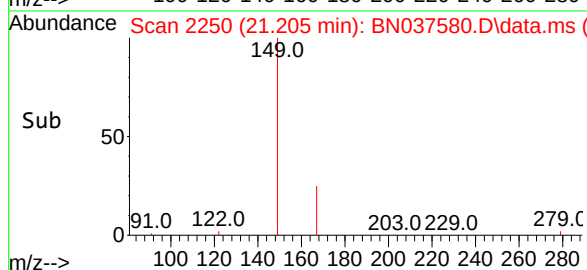
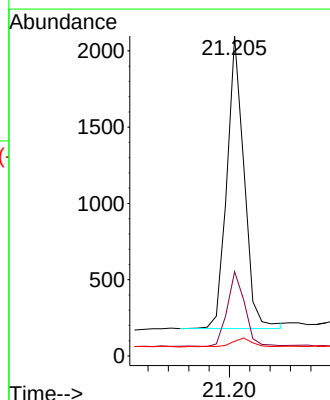
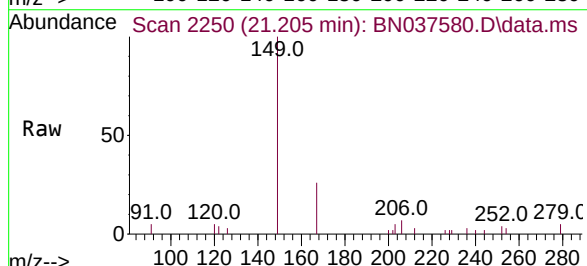
Tgt Ion:149 Resp: 2252

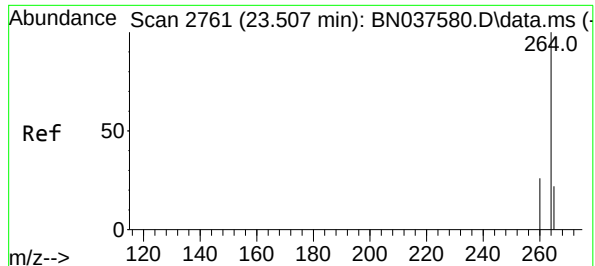
Ion Ratio Lower Upper

149 100

167 25.6 20.5 30.7

279 3.8 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.507 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

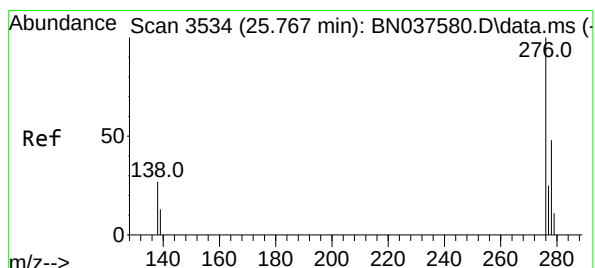
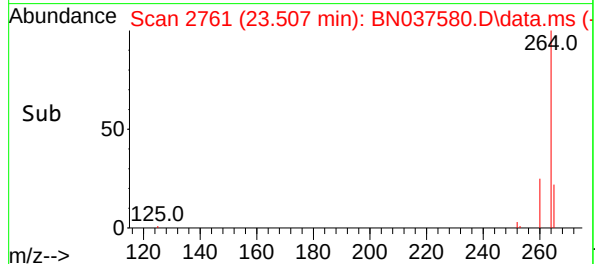
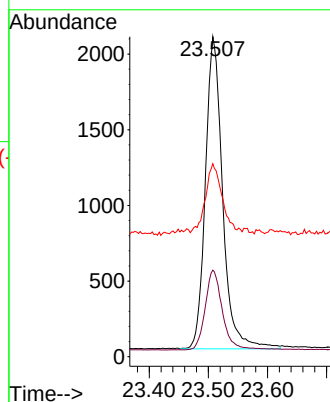
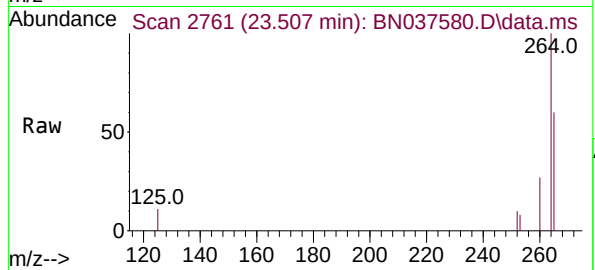
Tgt Ion:264 Resp: 4188

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 60.3 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.383 ng

RT: 25.767 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

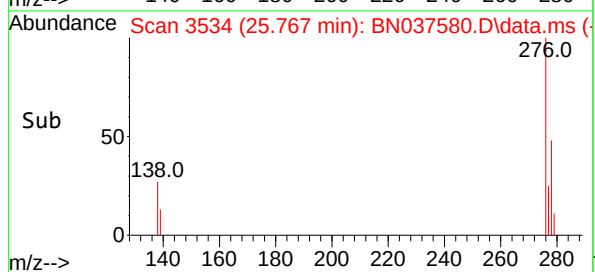
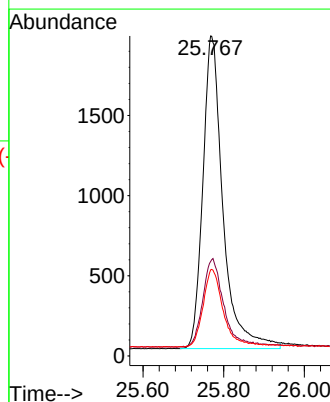
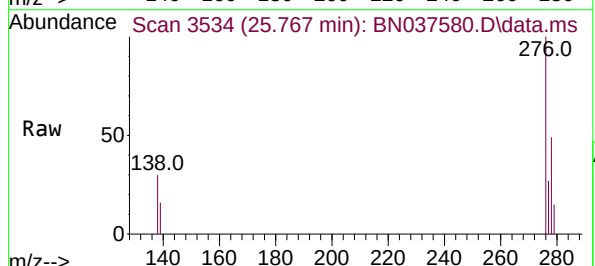
Tgt Ion:276 Resp: 6753

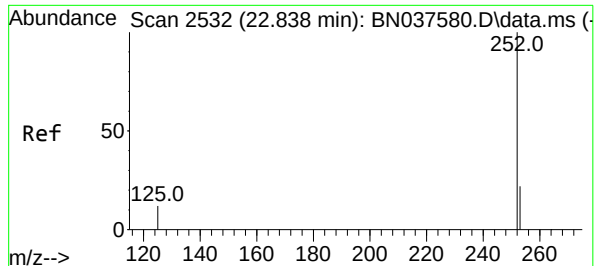
Ion Ratio Lower Upper

276 100

138 29.1 23.3 34.9

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.353 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

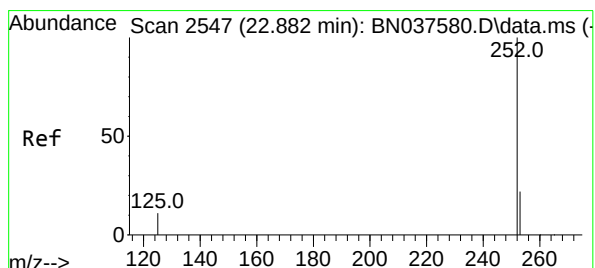
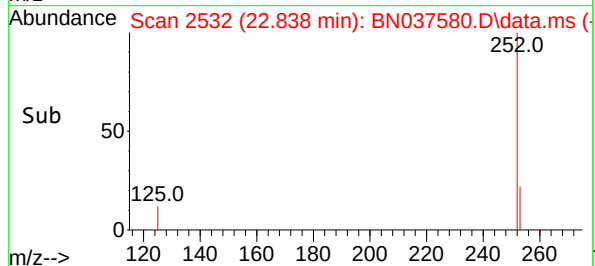
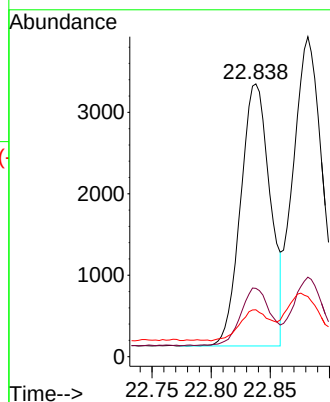
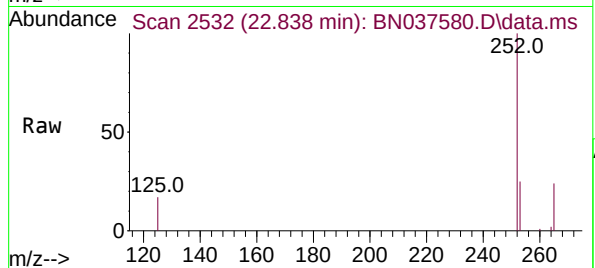
Tgt Ion:252 Resp: 5604

Ion Ratio Lower Upper

252 100

253 25.0 20.0 30.0

125 17.2 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.386 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

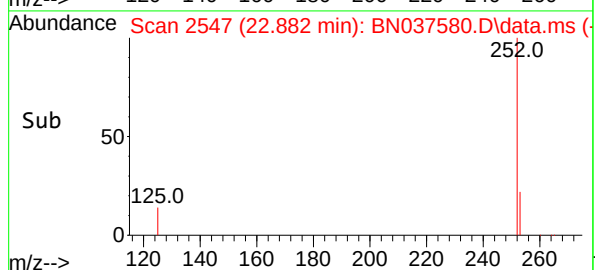
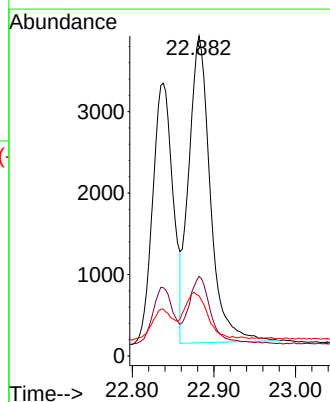
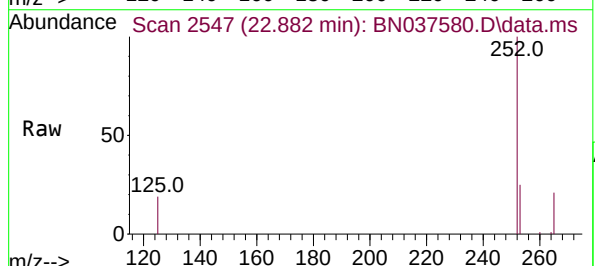
Tgt Ion:252 Resp: 6915

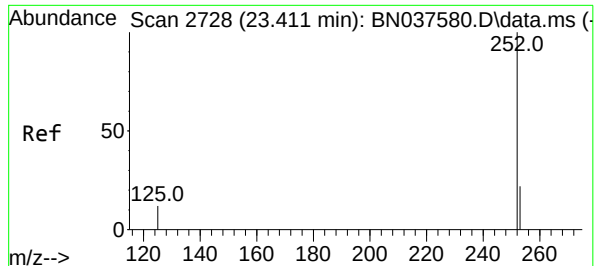
Ion Ratio Lower Upper

252 100

253 24.9 19.9 29.9

125 18.8 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

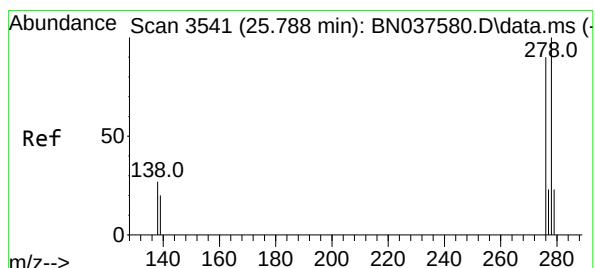
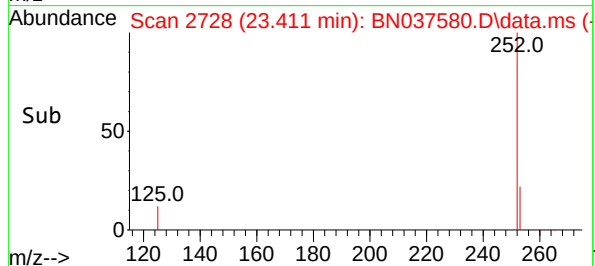
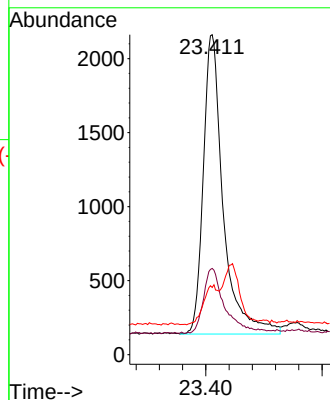
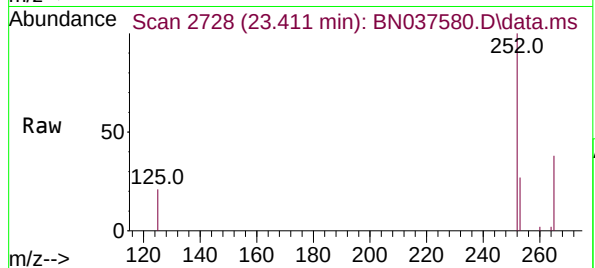
Tgt Ion:252 Resp: 4812

Ion Ratio Lower Upper

252 100

253 27.0 21.6 32.4

125 21.0 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

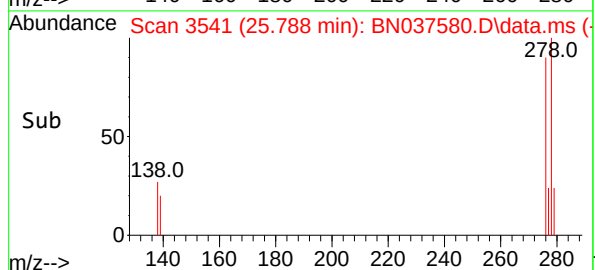
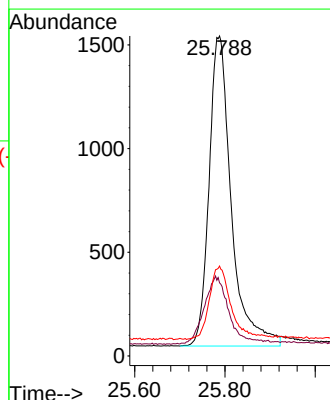
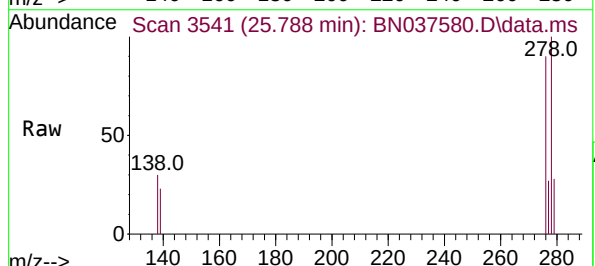
Tgt Ion:278 Resp: 5118

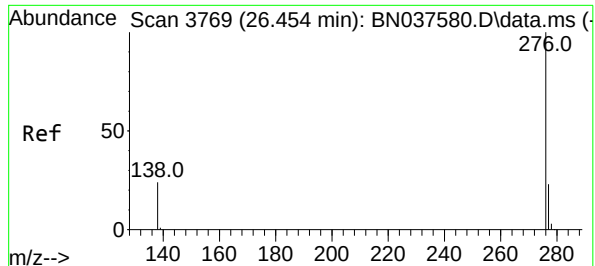
Ion Ratio Lower Upper

278 100

139 22.9 18.3 27.5

279 28.1 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037580.D

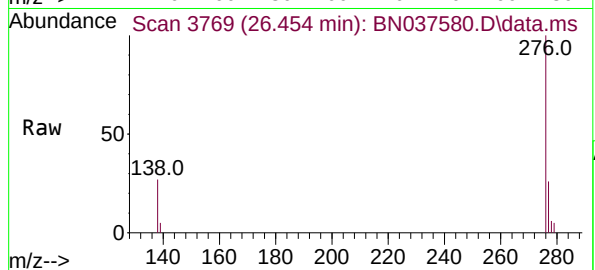
Acq: 12 Aug 2025 17:39

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



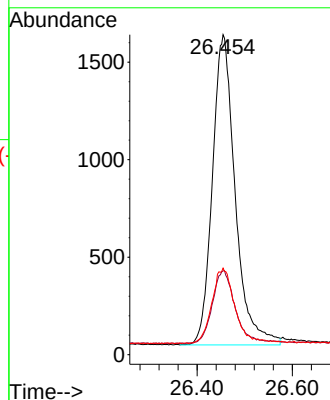
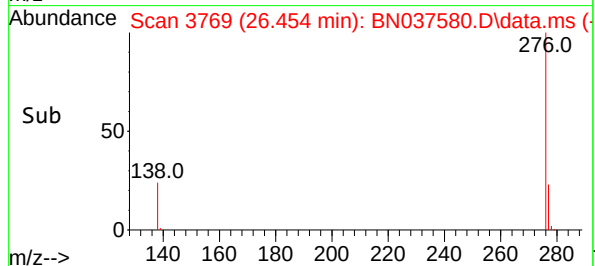
Tgt Ion:276 Resp: 5284

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

138 27.1 21.7 32.5



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

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

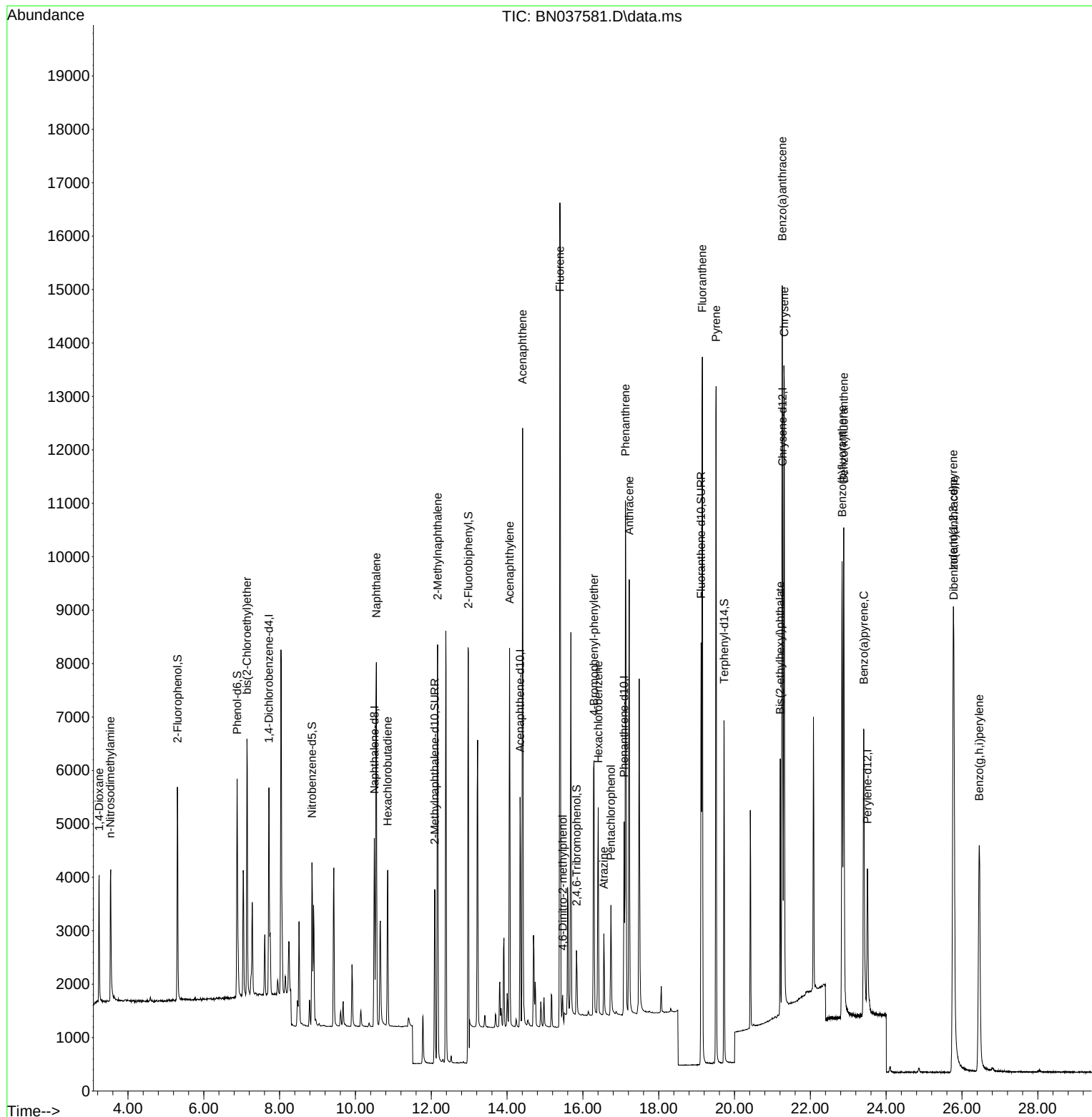
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4579	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2311	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4680	0.400	ng	0.00
29) Chrysene-d12	21.268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

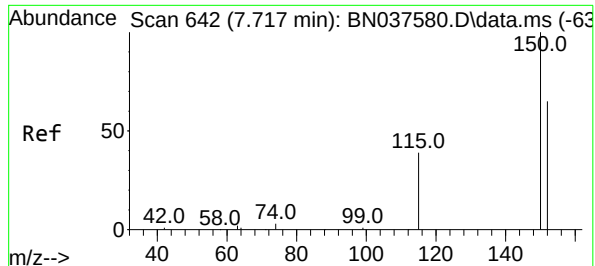
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

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

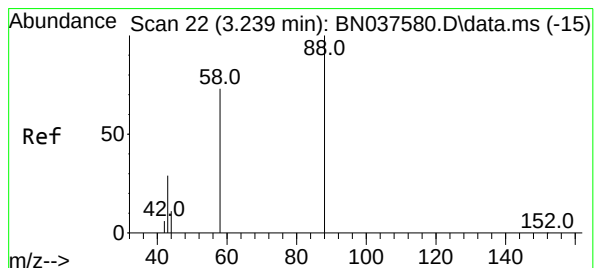
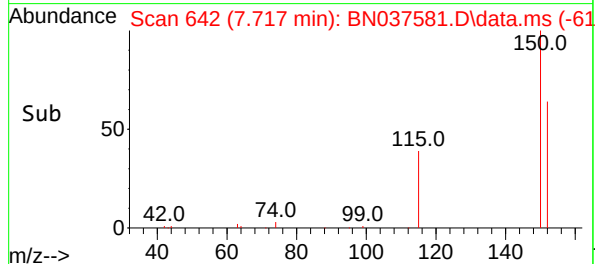
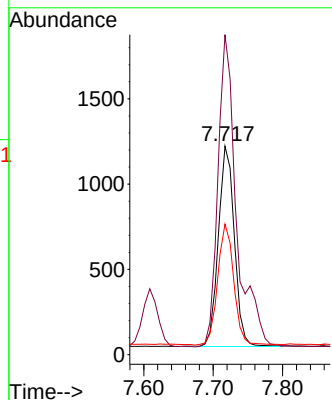
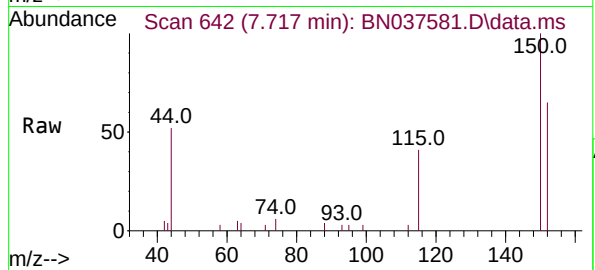




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

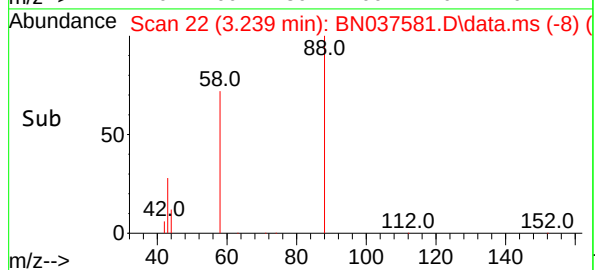
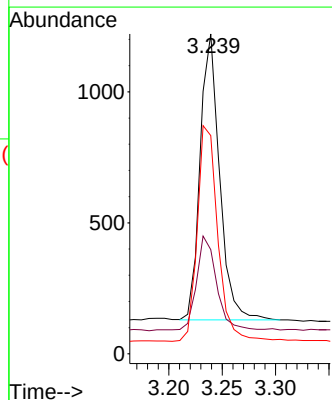
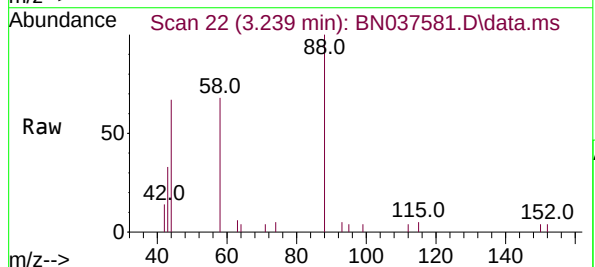
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

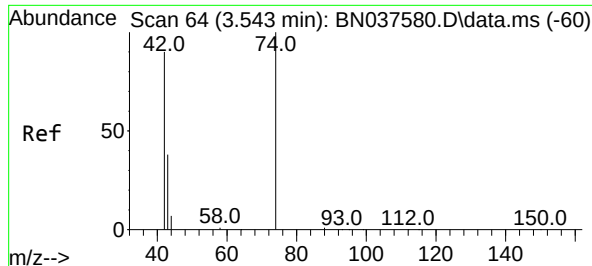
Tgt Ion:152 Resp: 1885
Ion Ratio Lower Upper
152 100
150 153.5 122.2 183.4
115 62.7 49.8 74.6



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

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

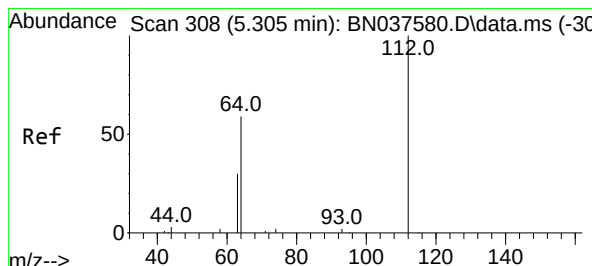
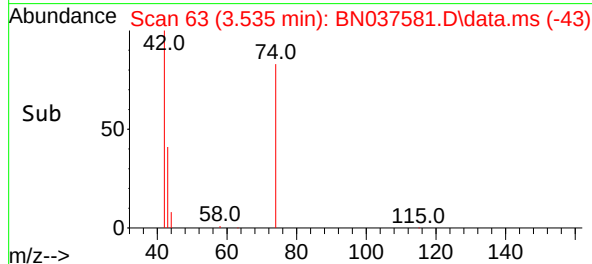
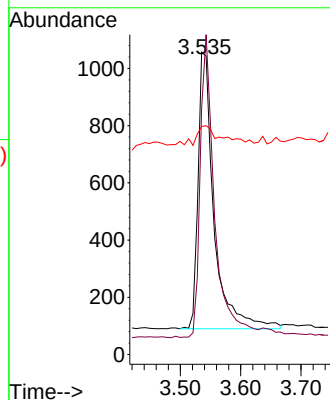
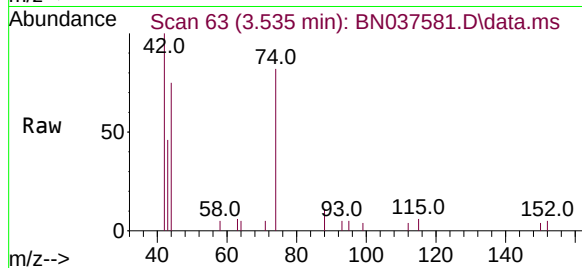




#3
n-Nitrosodimethylamine
Concen: 0.771 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

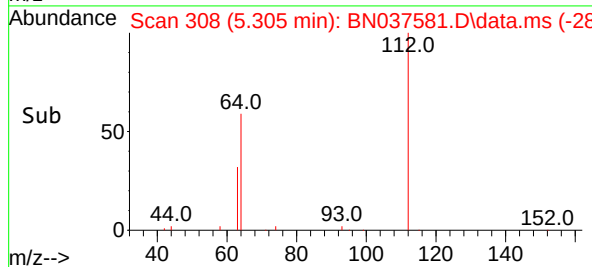
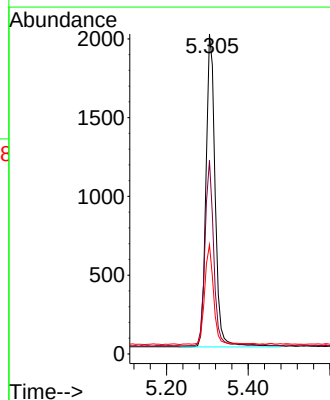
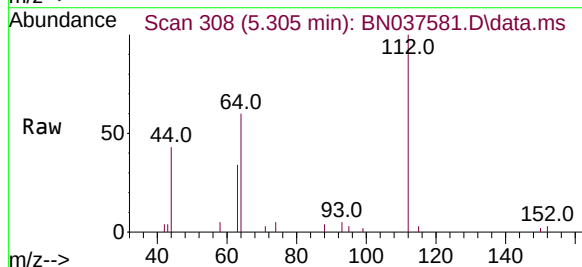
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

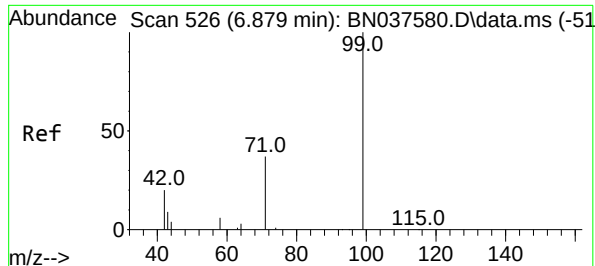
Tgt Ion: 42 Resp: 1777
Ion Ratio Lower Upper
42 100
74 98.9 82.0 123.0
44 12.9 7.9 11.9#



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

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





#5

Phenol-d6

Concen: 0.721 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

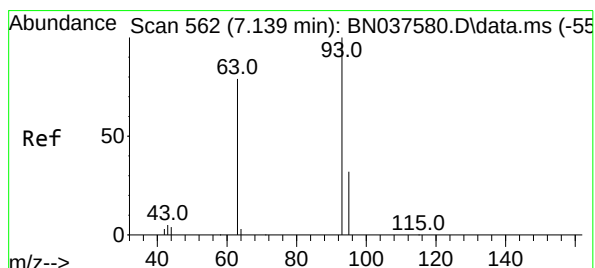
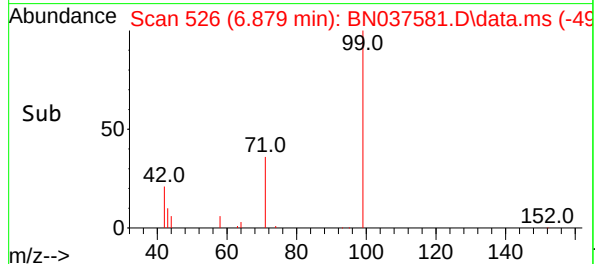
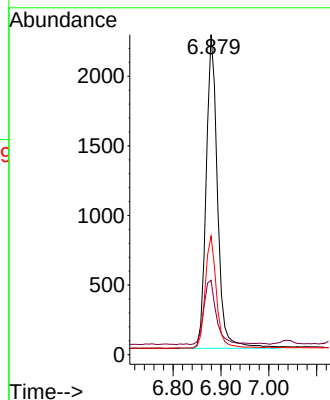
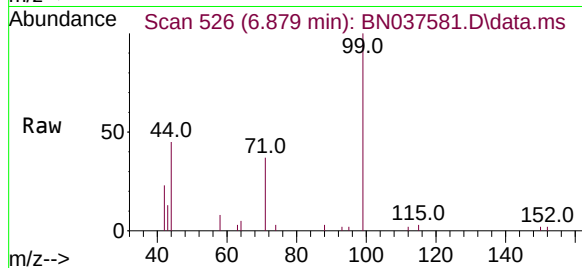
Tgt Ion: 99 Resp: 3707

Ion Ratio Lower Upper

99 100

42 22.9 18.5 27.7

71 35.5 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.762 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

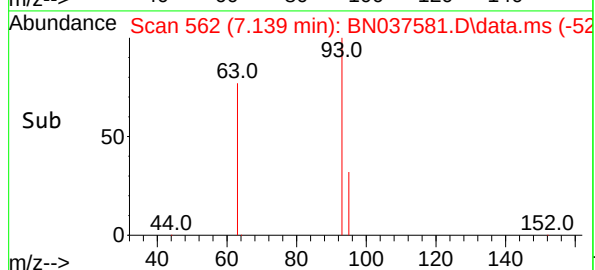
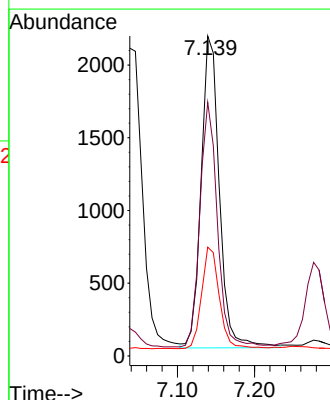
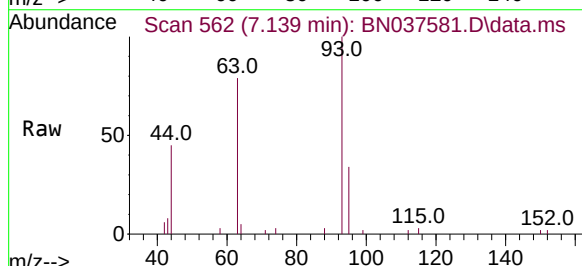
Tgt Ion: 93 Resp: 3530

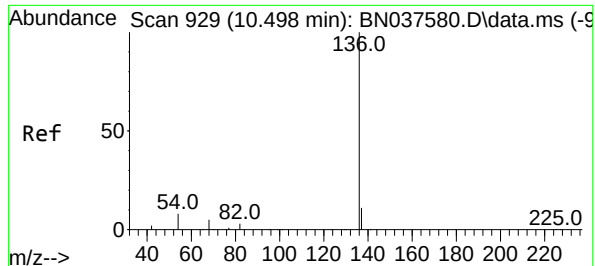
Ion Ratio Lower Upper

93 100

63 74.6 58.0 87.0

95 31.4 24.9 37.3

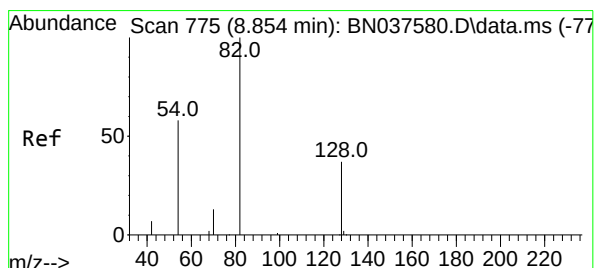
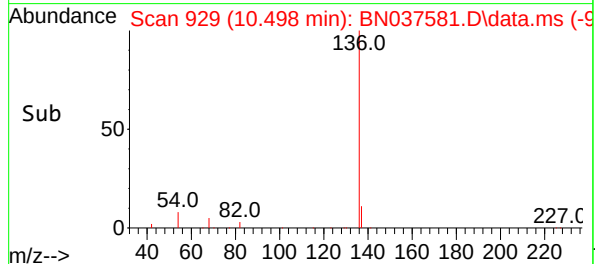
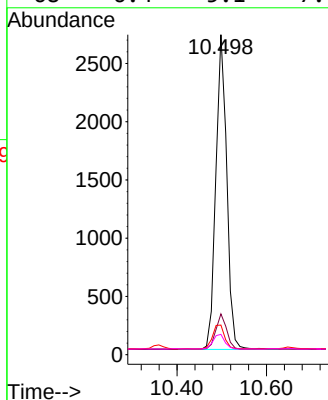
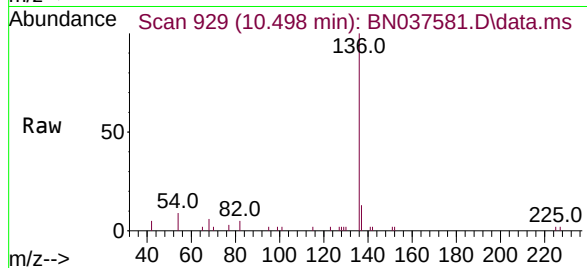




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

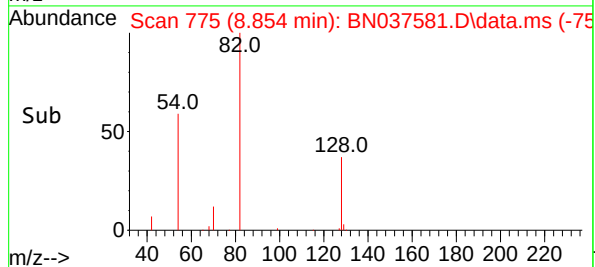
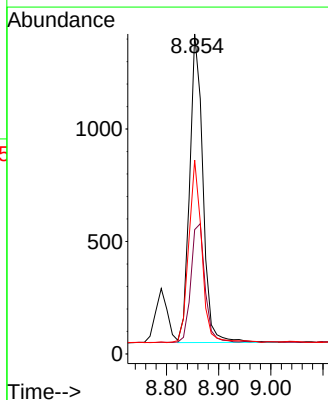
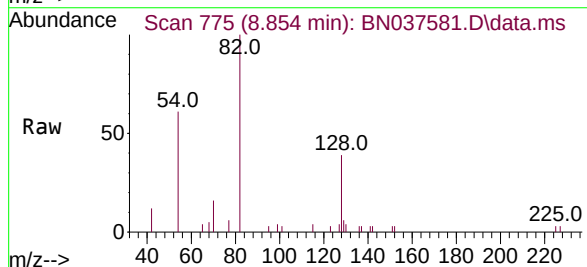
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

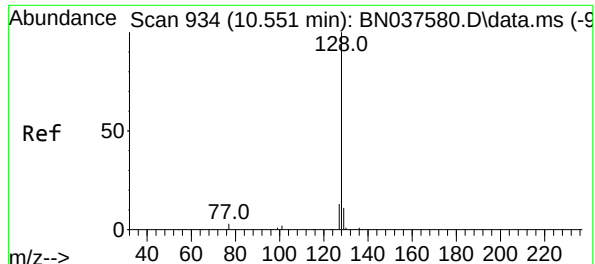
Tgt Ion:	136	Resp:	4579
Ion	Ratio	Lower	Upper
136	100		
137	12.8	9.5	14.3
54	9.3	7.3	10.9
68	6.4	5.1	7.7



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

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





#9

Naphthalene

Concen: 0.760 ng

RT: 10.551 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

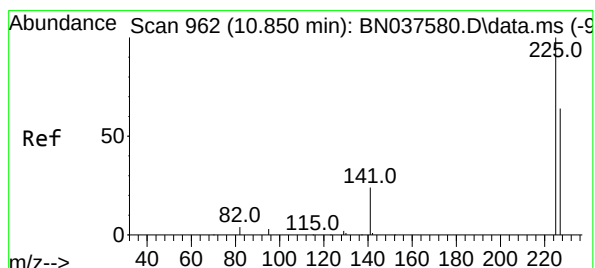
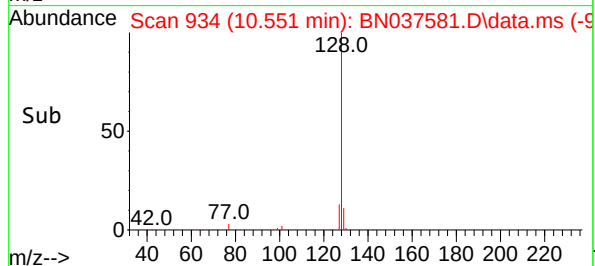
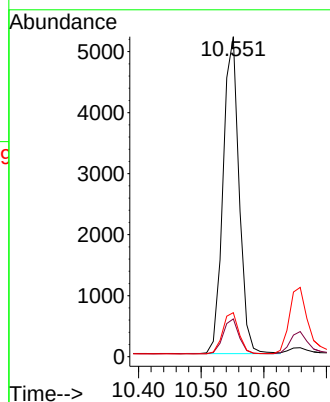
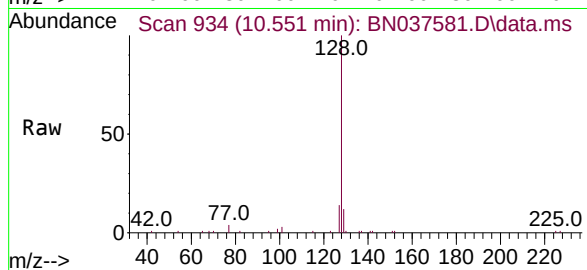
Tgt Ion:128 Resp: 9265

Ion Ratio Lower Upper

128 100

129 11.8 9.8 14.6

127 13.8 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.779 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

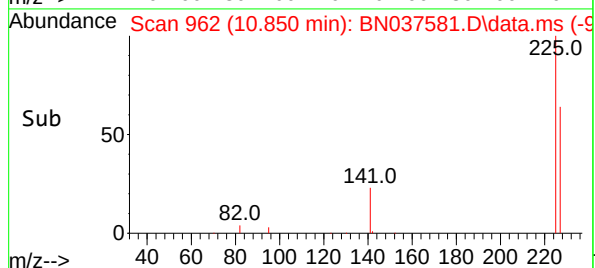
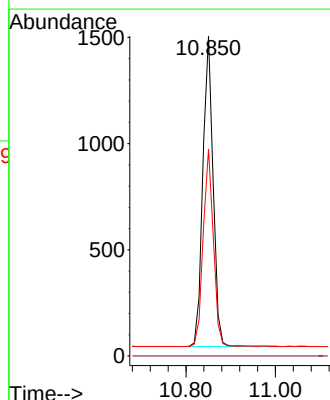
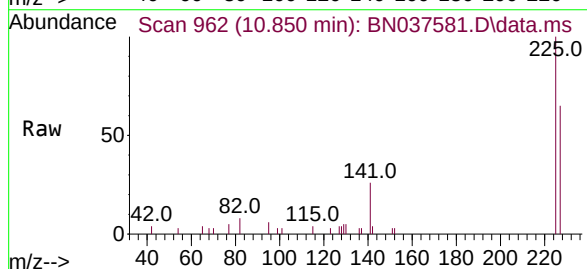
Tgt Ion:225 Resp: 2321

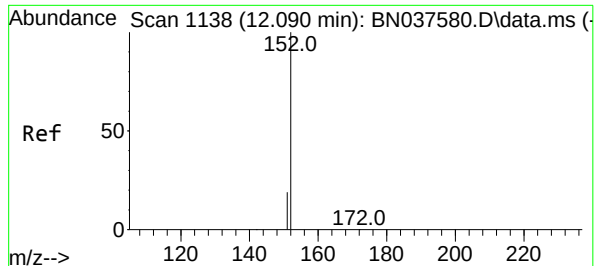
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.0 50.8 76.2

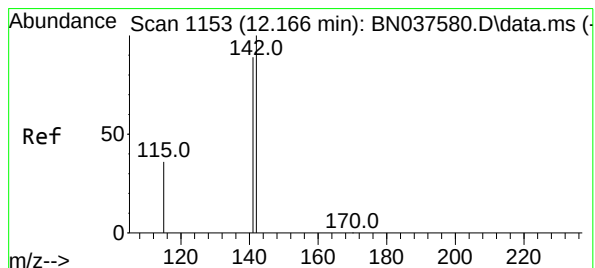
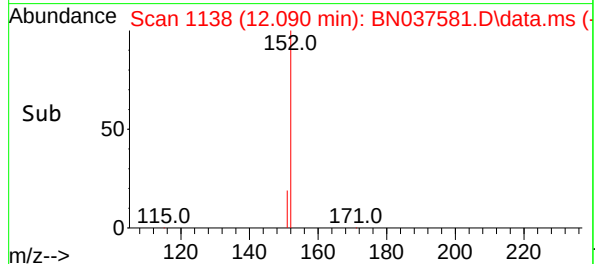
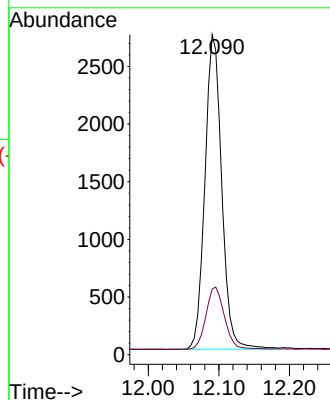
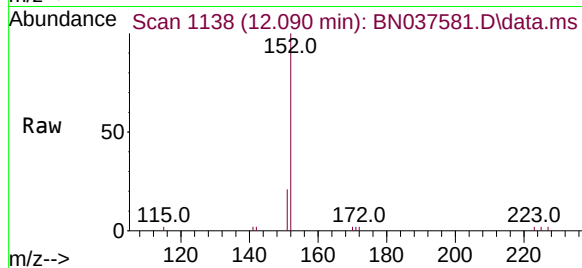




#11
2-Methylnaphthalene-d10
Concen: 0.726 ng
RT: 12.090 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

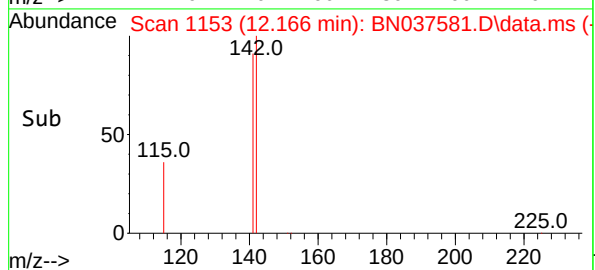
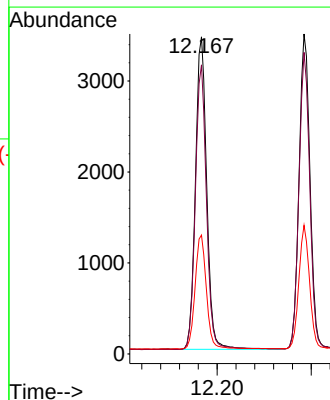
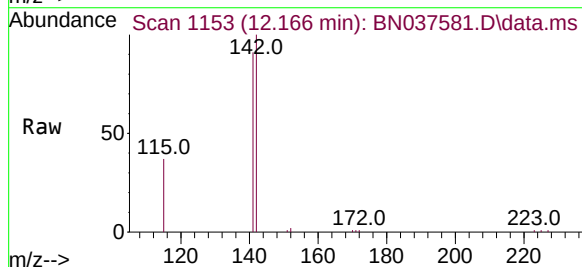
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

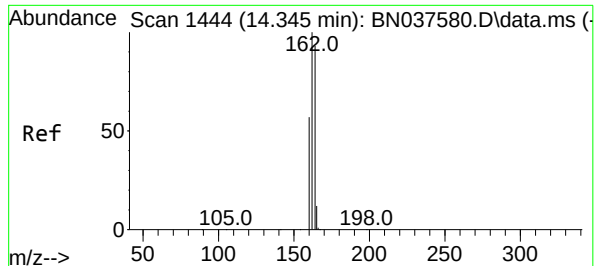
Tgt Ion:152 Resp: 4517
Ion Ratio Lower Upper
152 100
151 21.9 17.3 25.9



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

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

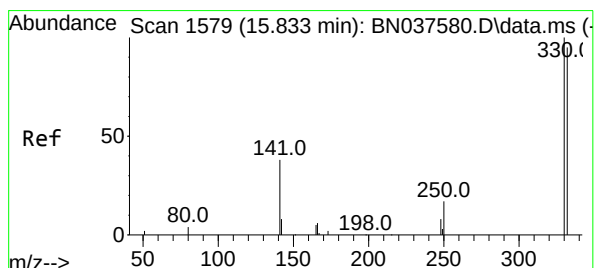
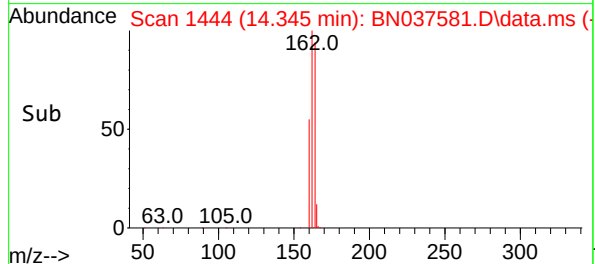
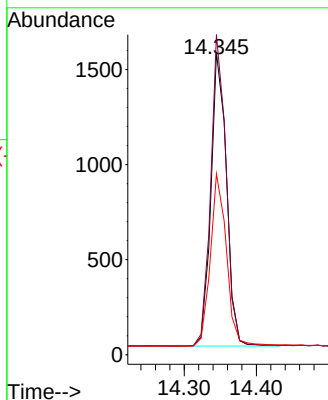
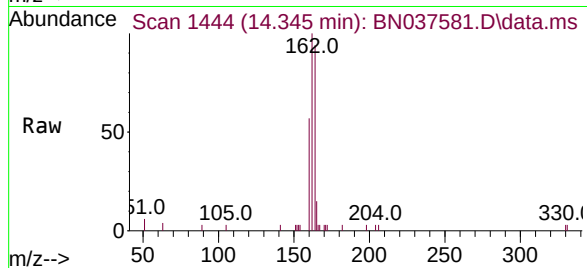




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

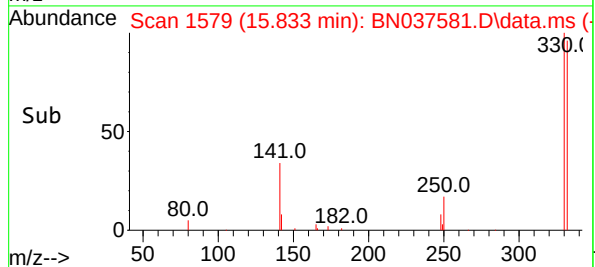
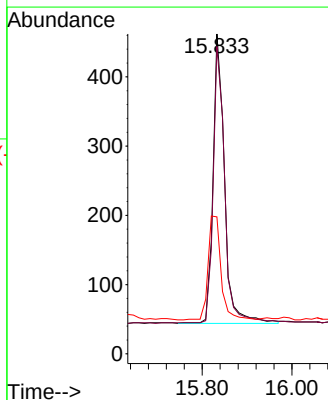
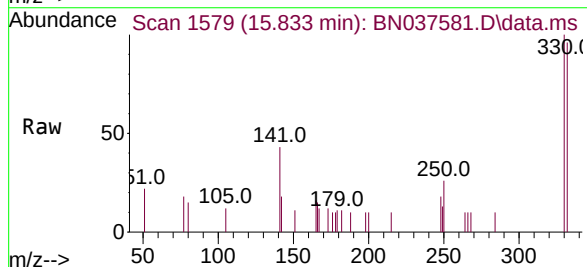
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

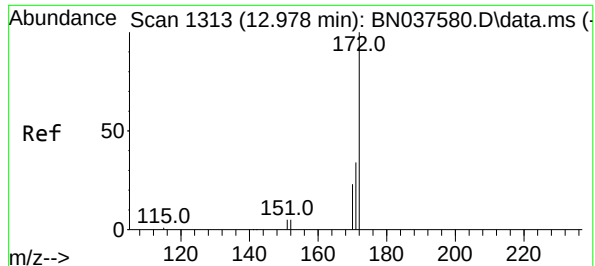
Tgt Ion	164	Resp	2311
Ion	Ratio	Lower	Upper
164	100		
162	105.9	85.5	128.3
160	59.8	49.5	74.3



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

Tgt Ion	330	Resp	739
Ion	Ratio	Lower	Upper
330	100		
332	94.3	77.4	116.0
141	40.5	30.9	46.3

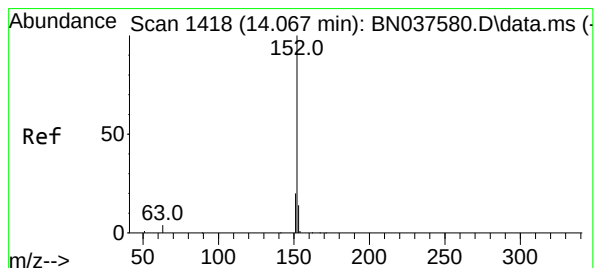
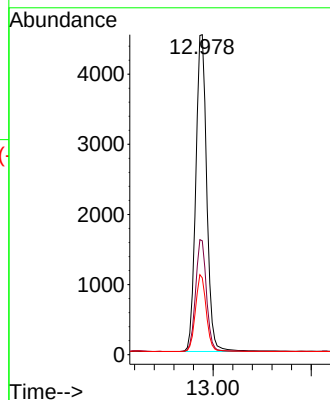
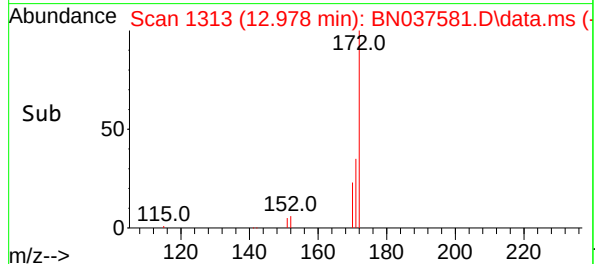
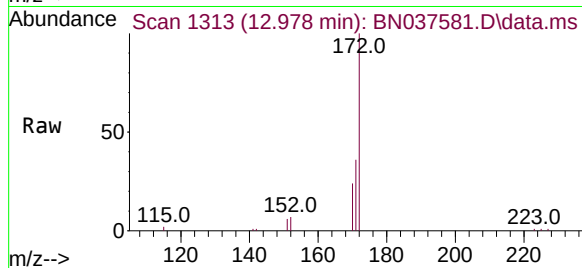




#15
2-Fluorobiphenyl
Concen: 0.778 ng
RT: 12.978 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

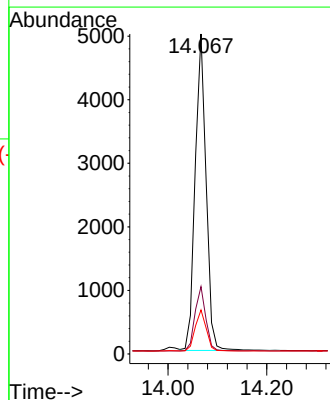
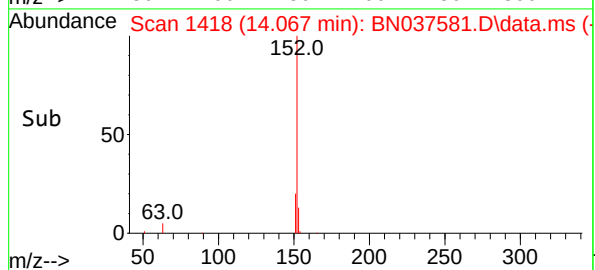
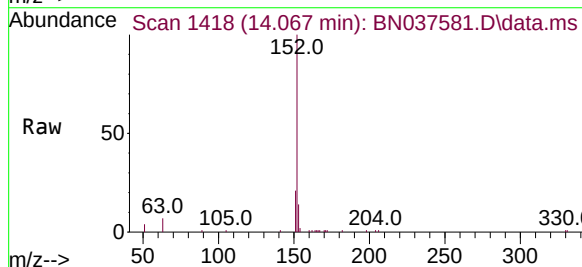
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

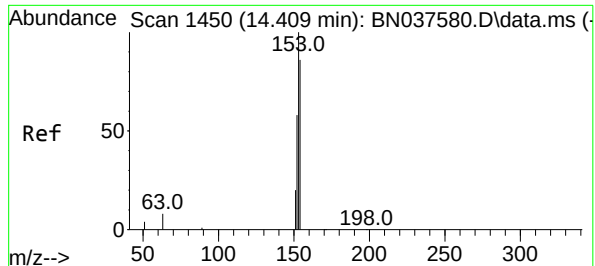
Tgt Ion:	172	Resp:	10405
Ion Ratio	Lower	Upper	
172	100		
171	35.6	28.2	42.4
170	24.0	19.2	28.8



#16
Acenaphthylene
Concen: 0.737 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:	152	Resp:	7638
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.1	24.1
153	13.1	10.7	16.1





#17

Acenaphthene

Concen: 0.757 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

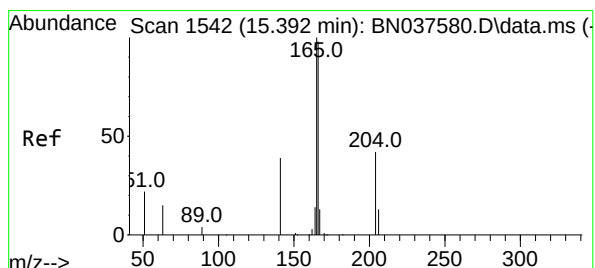
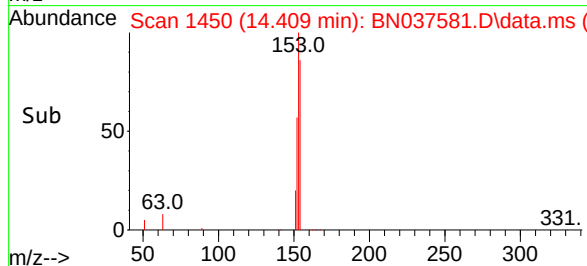
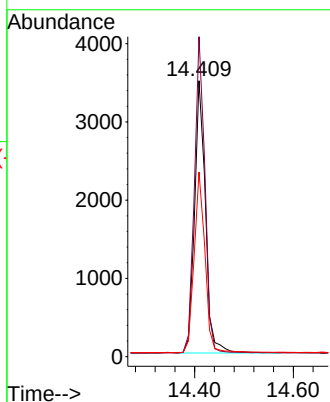
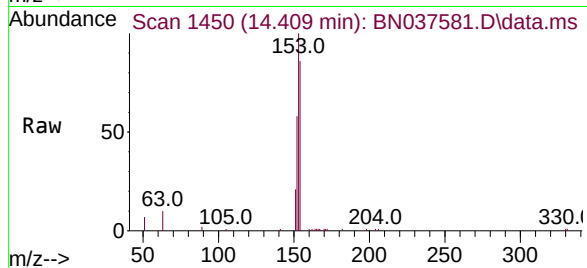
Tgt Ion:154 Resp: 5336

Ion Ratio Lower Upper

154 100

153 111.8 90.6 135.8

152 66.9 54.9 82.3



#18

Fluorene

Concen: 0.763 ng

RT: 15.392 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

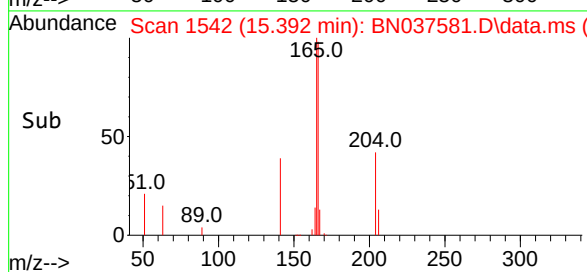
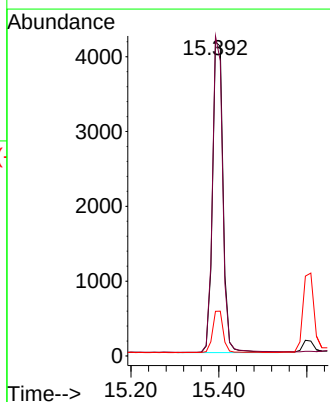
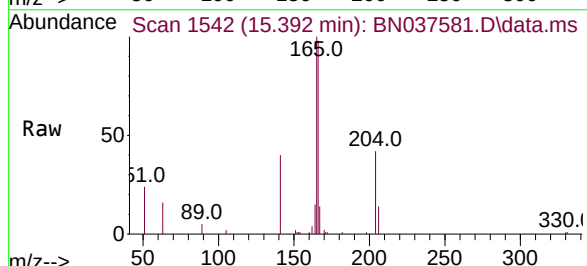
Tgt Ion:166 Resp: 7030

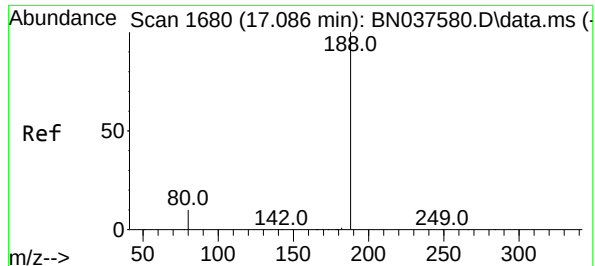
Ion Ratio Lower Upper

166 100

165 99.5 78.9 118.3

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

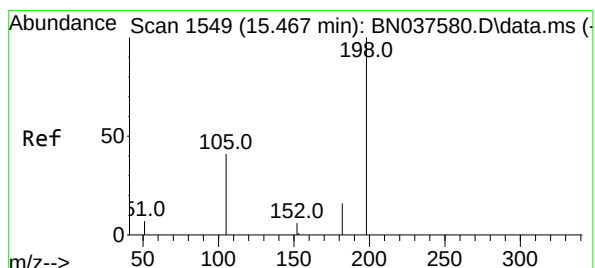
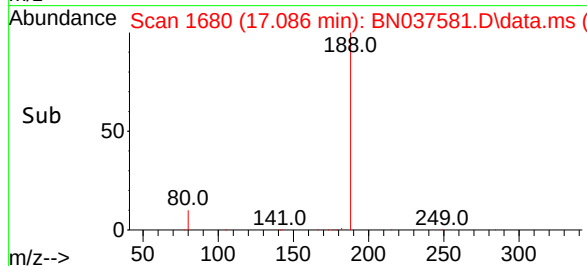
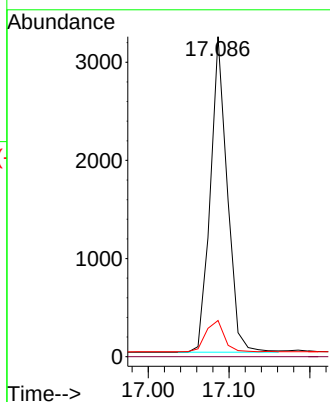
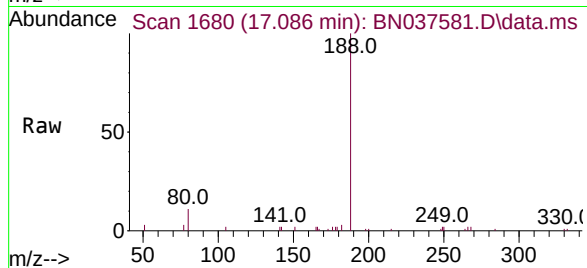
Tgt Ion:188 Resp: 4680

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.697 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

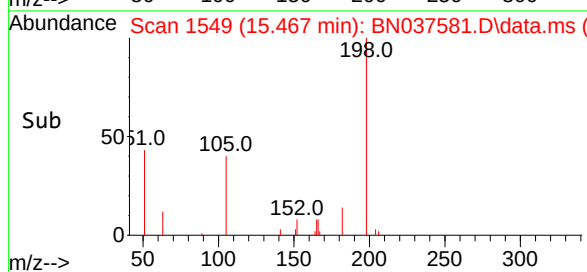
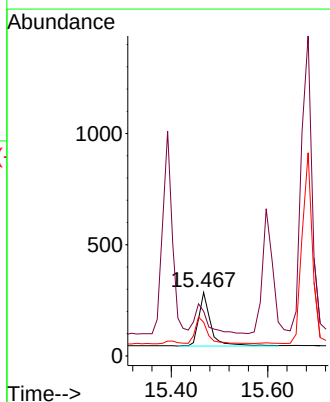
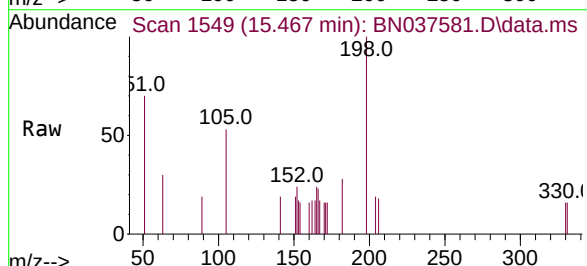
Tgt Ion:198 Resp: 439

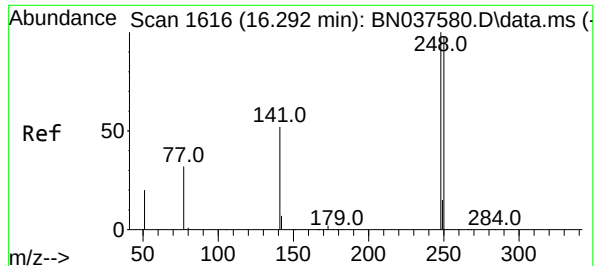
Ion Ratio Lower Upper

198 100

51 70.3 81.0 121.6#

105 53.1 52.5 78.7

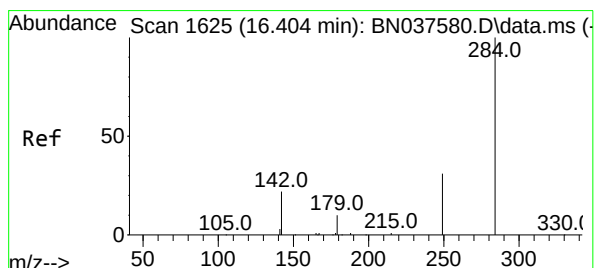
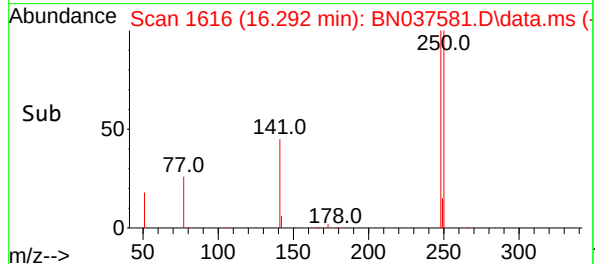
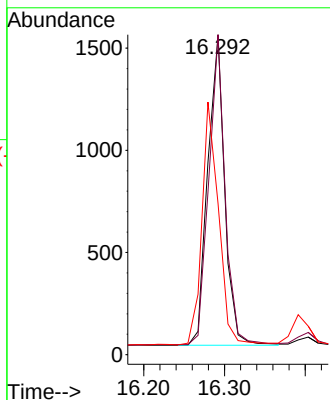
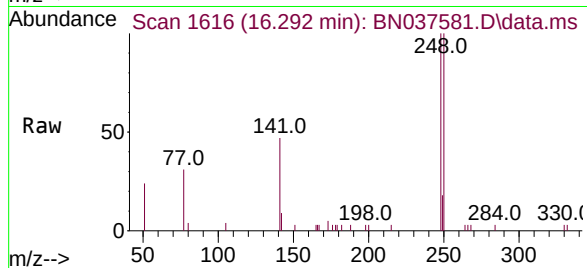




#21
4-Bromophenyl-phenylether
Concen: 0.754 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

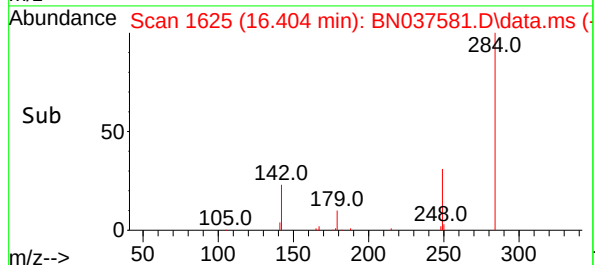
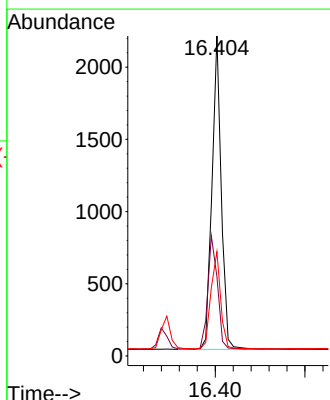
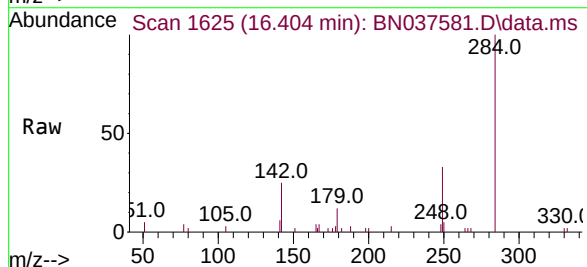
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

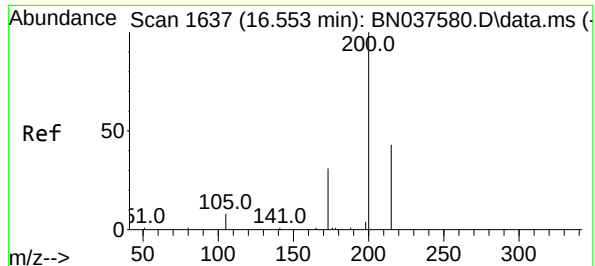
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.1	78.6	118.0
141	47.3	43.7	65.5



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

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





#23

Atrazine

Concen: 0.752 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

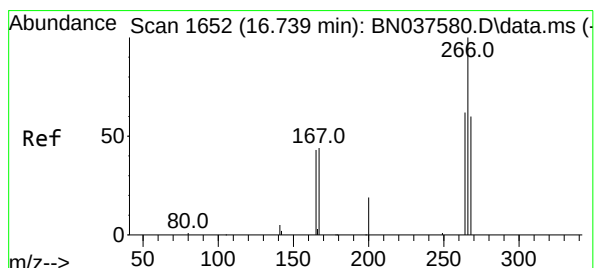
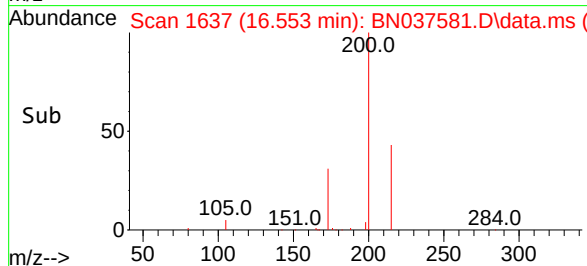
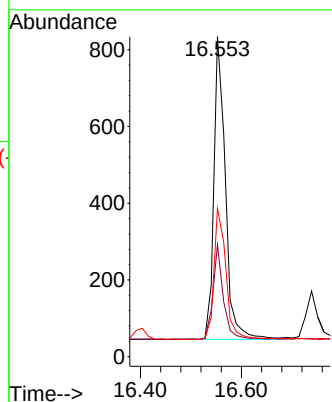
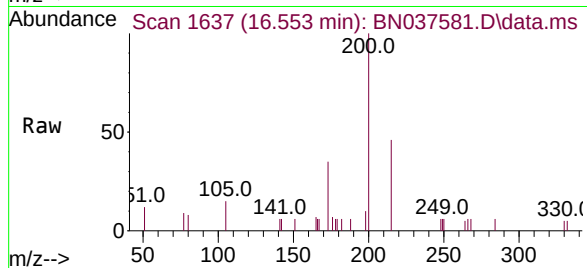
Tgt Ion:200 Resp: 1251

Ion Ratio Lower Upper

200 100

173 35.0 31.0 46.4

215 46.3 39.4 59.0



#24

Pentachlorophenol

Concen: 0.725 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

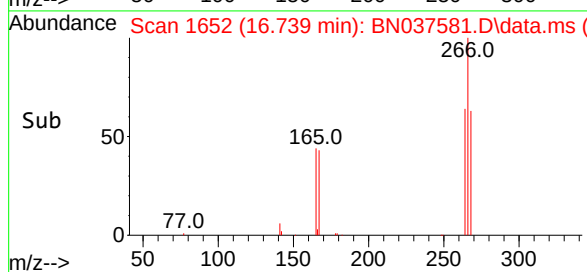
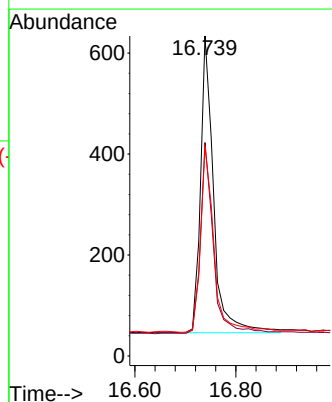
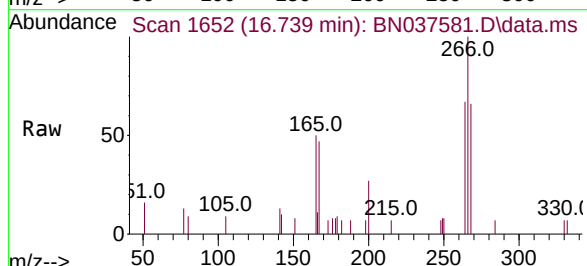
Tgt Ion:266 Resp: 1061

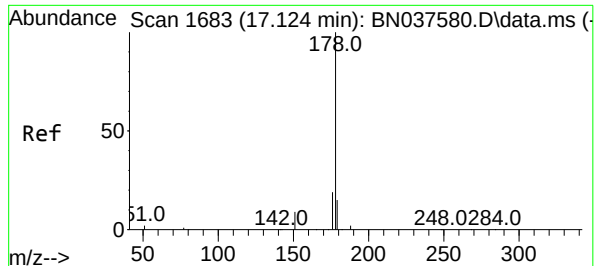
Ion Ratio Lower Upper

266 100

264 62.3 49.6 74.4

268 63.9 49.2 73.8

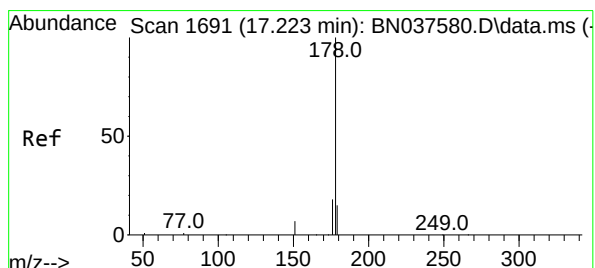
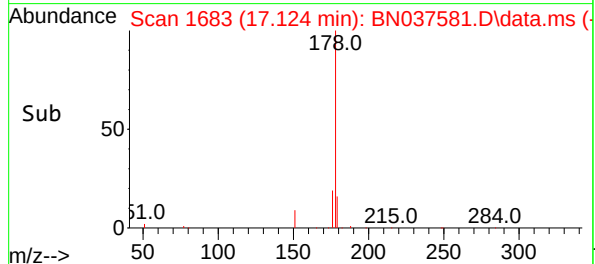
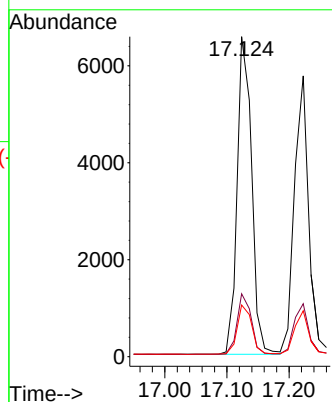
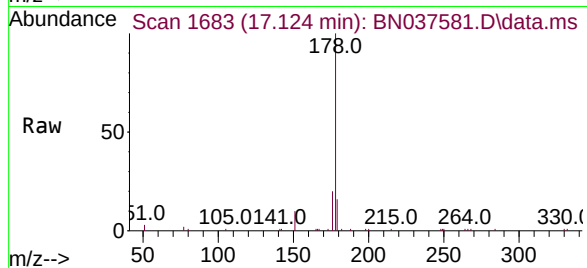




#25
Phenanthrene
Concen: 0.749 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

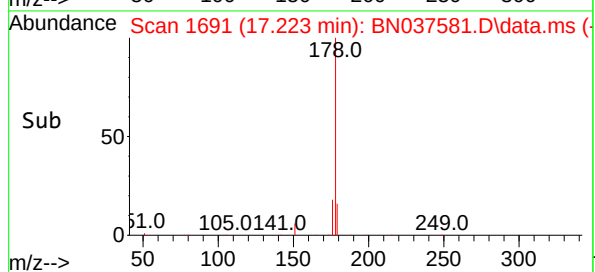
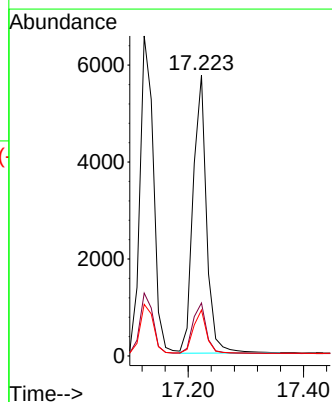
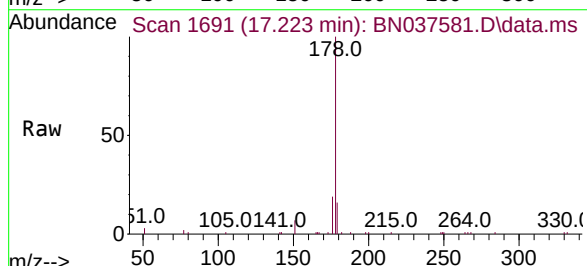
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

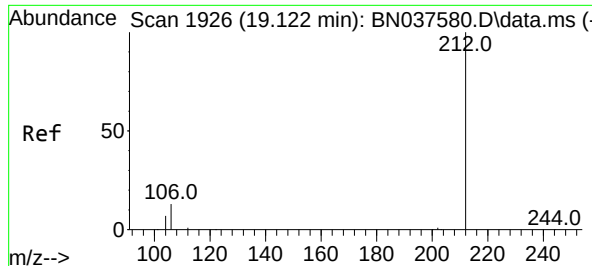
Tgt Ion:178 Resp: 10654
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.7 12.3 18.5



#26
Anthracene
Concen: 0.734 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

Tgt Ion:178 Resp: 9251
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.6 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.711 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

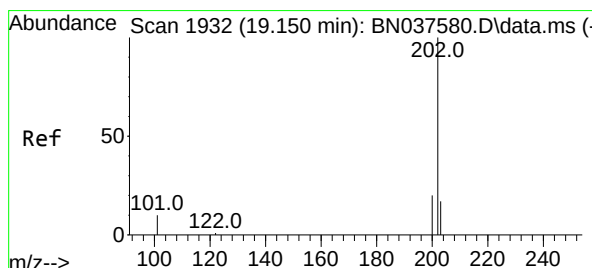
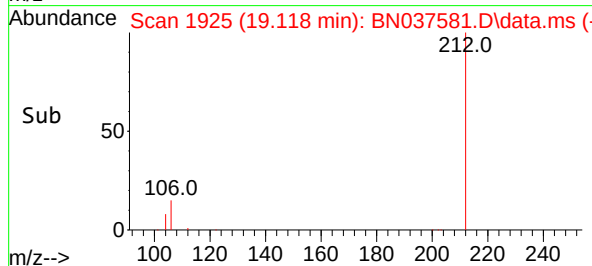
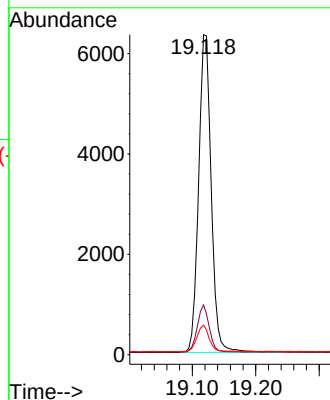
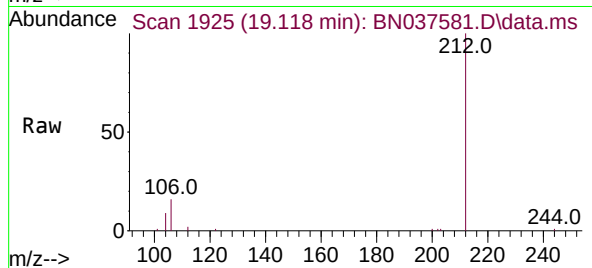
Tgt Ion:212 Resp: 8750

Ion Ratio Lower Upper

212 100

106 14.1 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.740 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

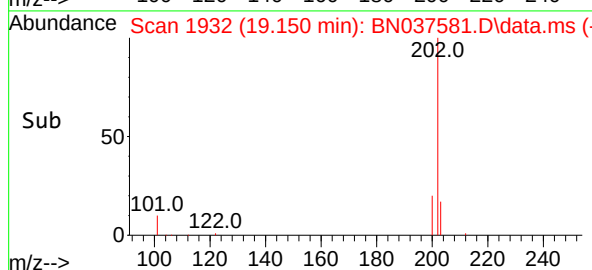
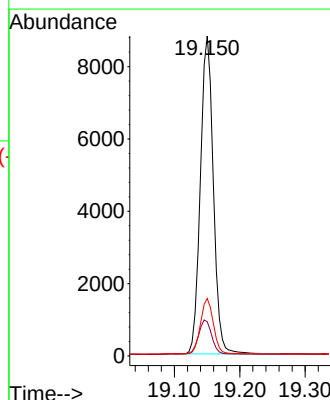
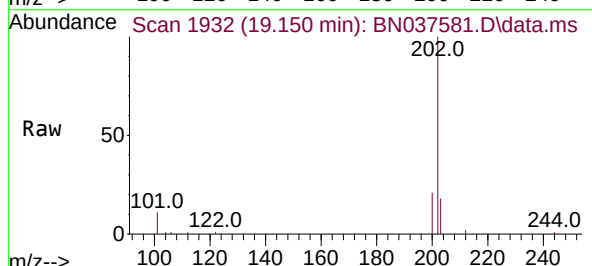
Tgt Ion:202 Resp: 12088

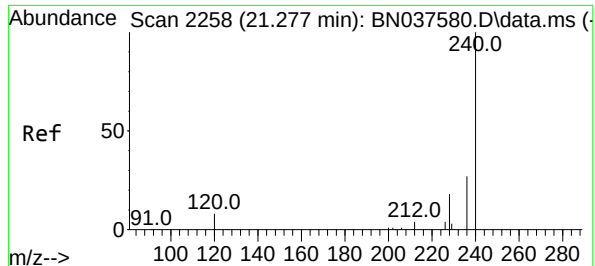
Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

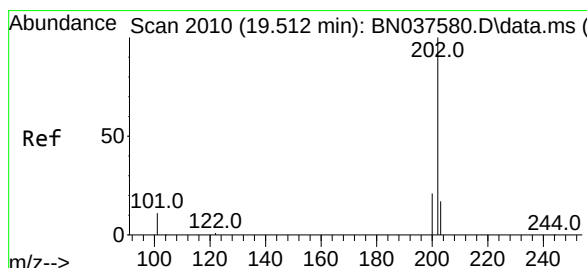
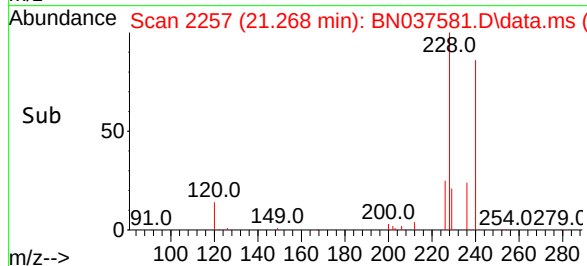
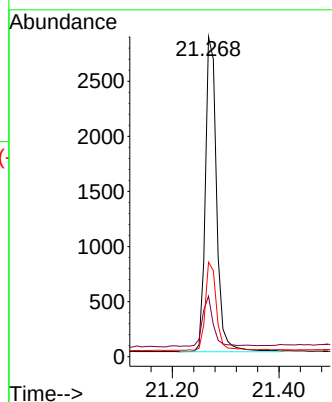
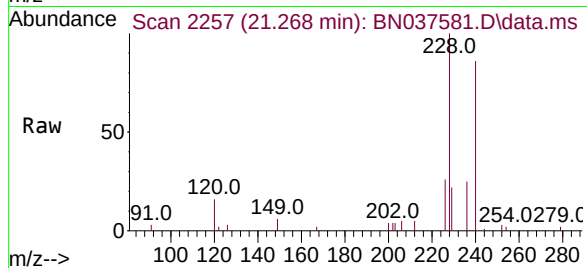
Tgt Ion:240 Resp: 4185

Ion Ratio Lower Upper

240 100

120 18.9 8.9 13.3#

236 29.5 22.6 33.8



#30

Pyrene

Concen: 0.751 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

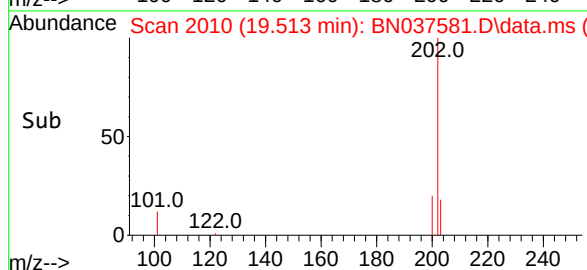
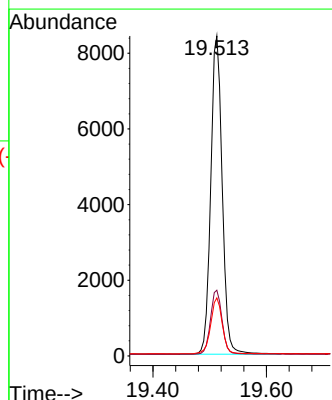
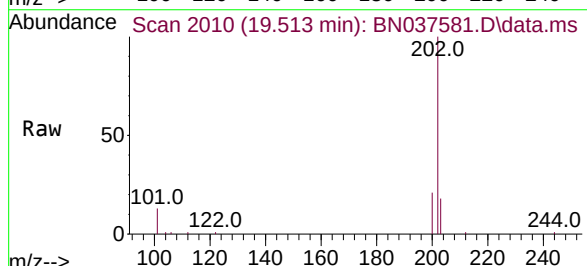
Tgt Ion:202 Resp: 11747

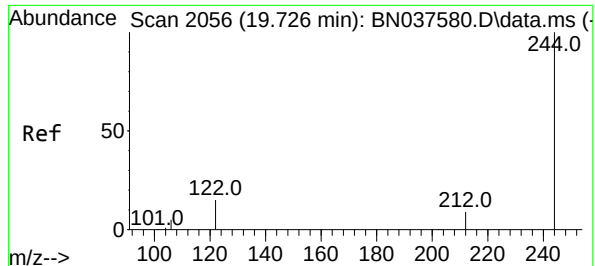
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.9 14.3 21.5

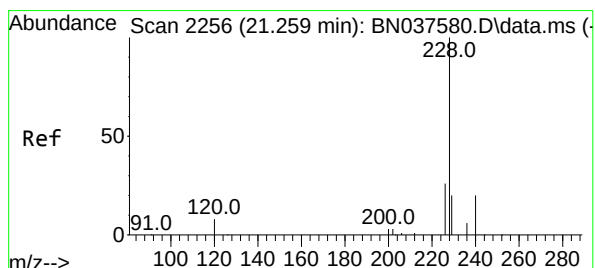
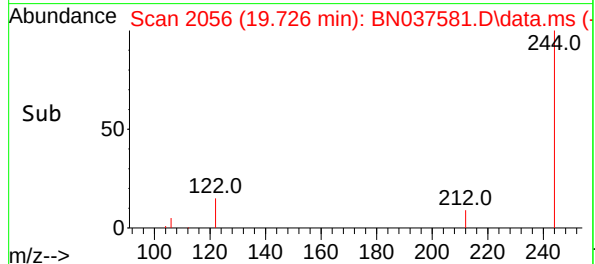
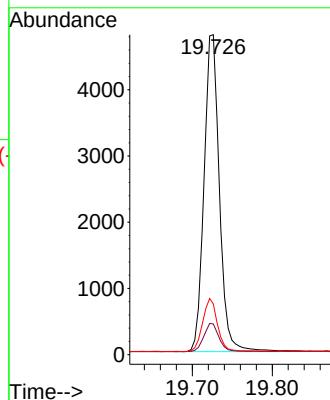
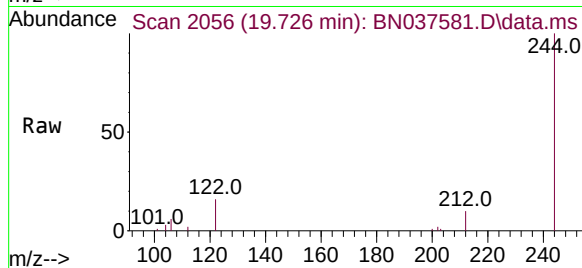




#31
Terphenyl-d14
Concen: 0.741 ng
RT: 19.726 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037581.D
Acq: 12 Aug 2025 18:16

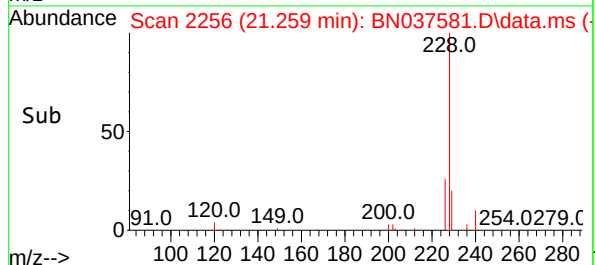
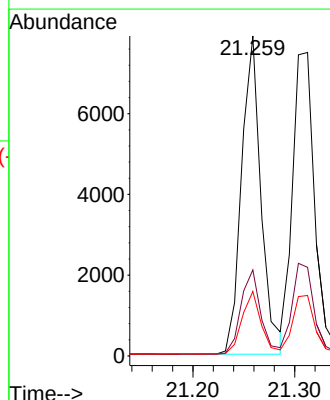
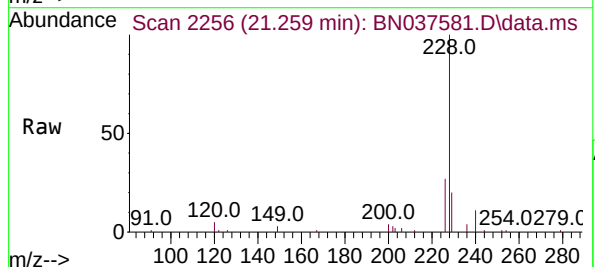
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

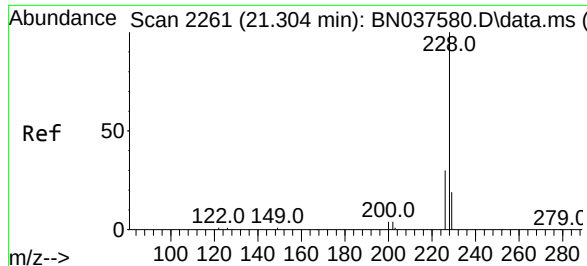
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.6	8.2	12.2
122	15.9	13.2	19.8



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

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





#33

Chrysene

Concen: 0.741 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

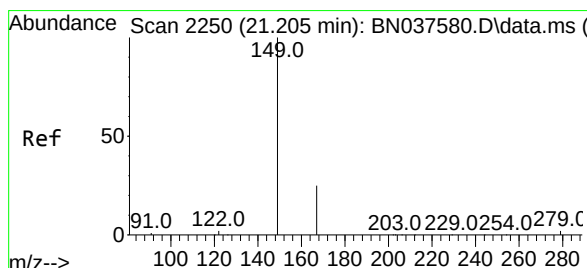
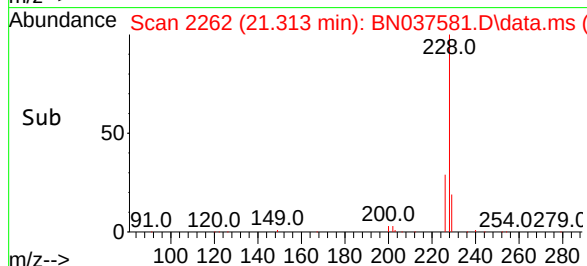
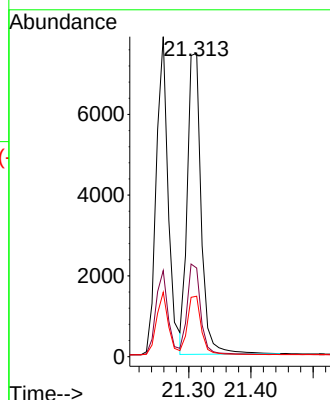
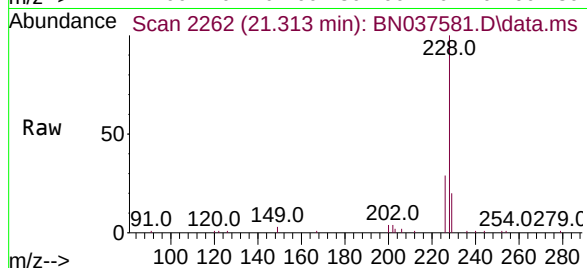
Tgt Ion:228 Resp: 11541

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

229 19.9 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.701 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

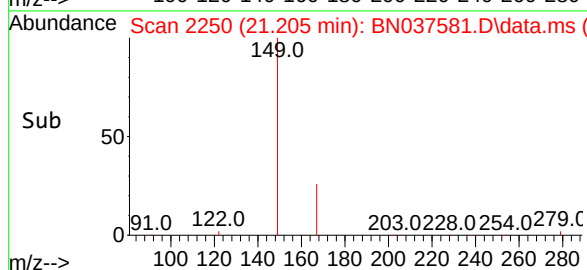
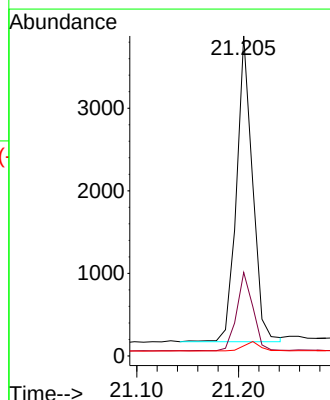
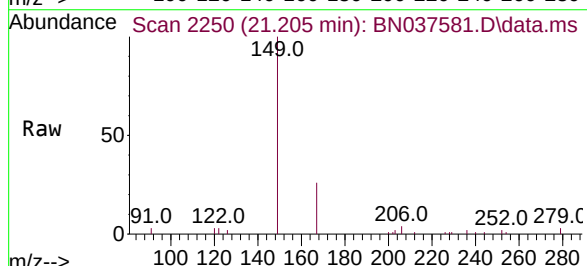
Tgt Ion:149 Resp: 4046

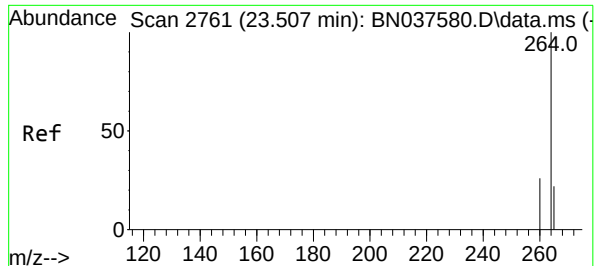
Ion Ratio Lower Upper

149 100

167 25.8 20.5 30.7

279 3.2 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

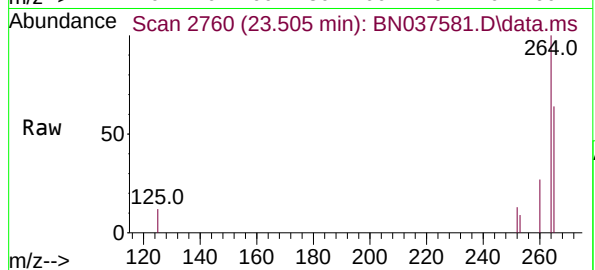
Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



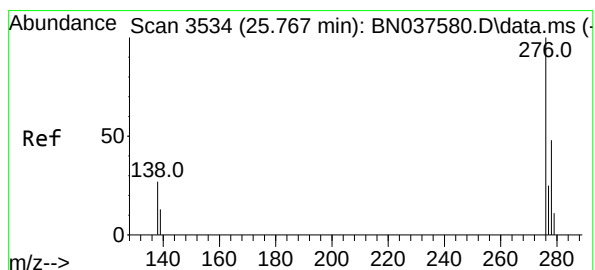
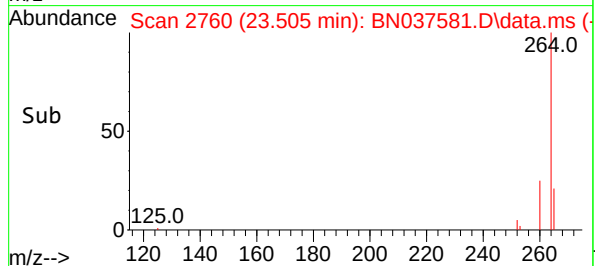
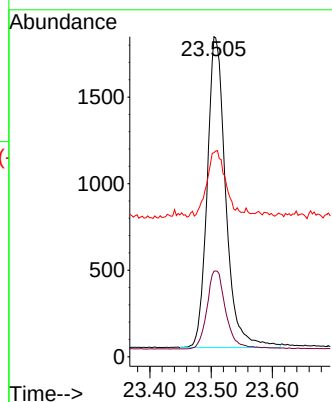
Tgt Ion:264 Resp: 3775

Ion Ratio Lower Upper

264 100

260 26.7 21.6 32.4

265 63.8 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.744 ng

RT: 25.770 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

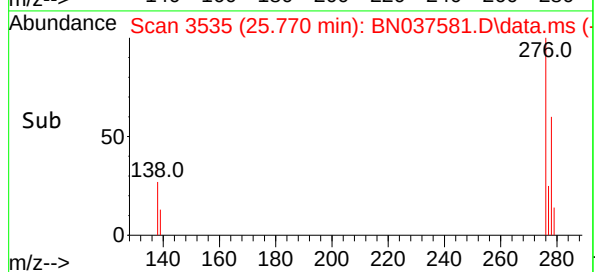
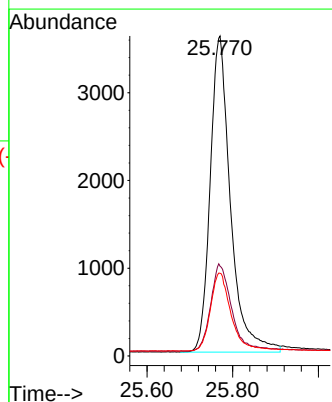
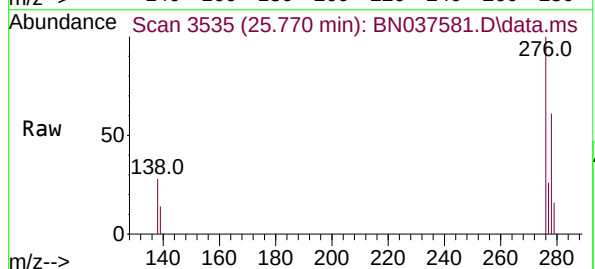
Tgt Ion:276 Resp: 11835

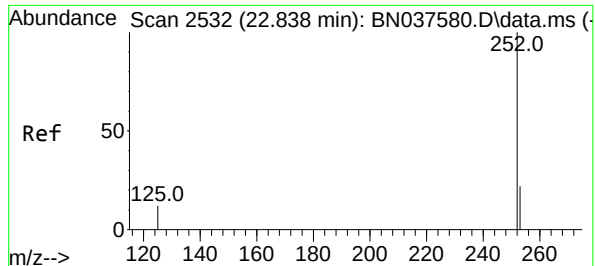
Ion Ratio Lower Upper

276 100

138 28.4 23.3 34.9

277 25.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.756 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

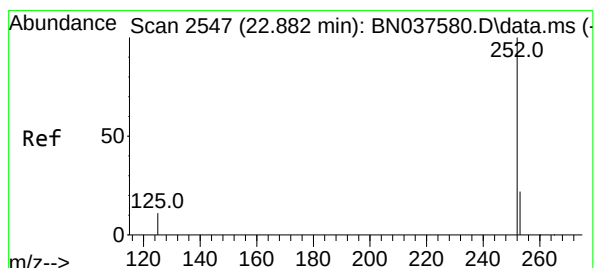
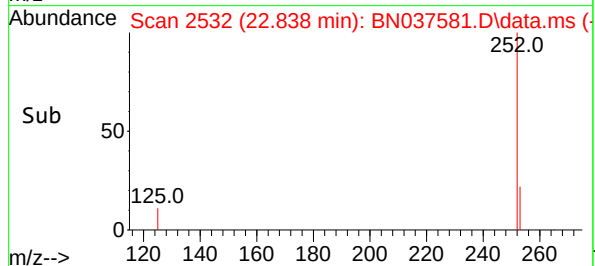
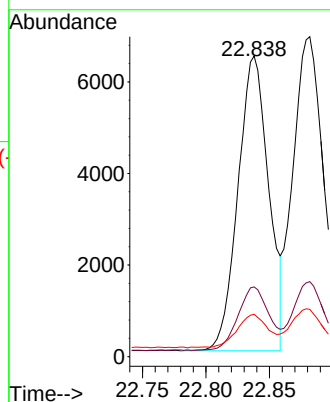
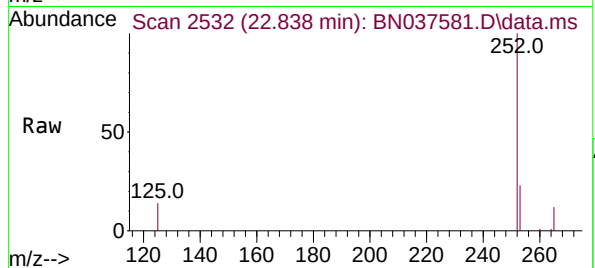
Tgt Ion:252 Resp: 10811

Ion Ratio Lower Upper

252 100

253 23.2 20.0 30.0

125 14.1 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.761 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

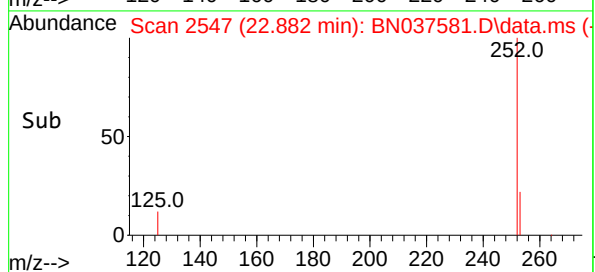
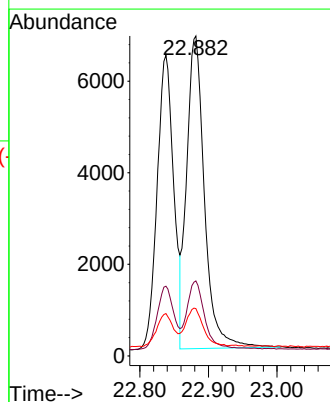
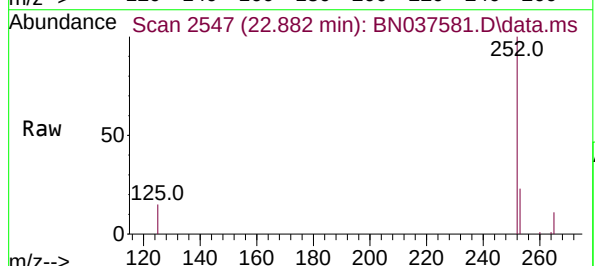
Tgt Ion:252 Resp: 12288

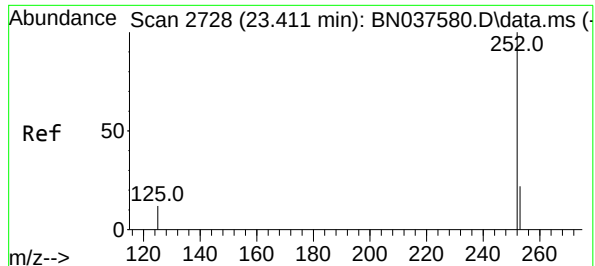
Ion Ratio Lower Upper

252 100

253 23.4 19.9 29.9

125 14.8 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.736 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

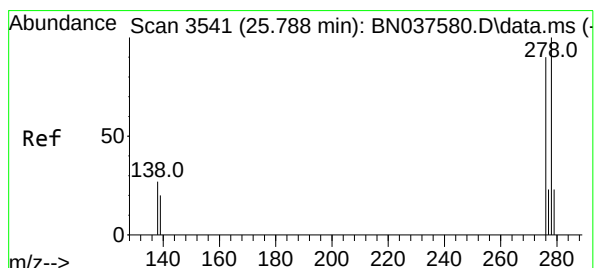
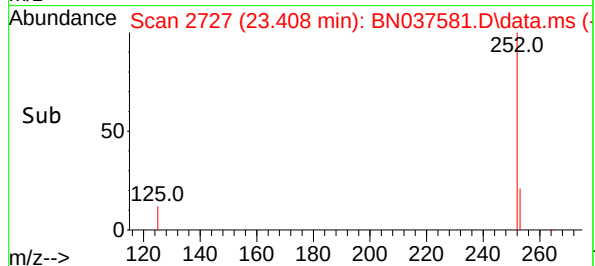
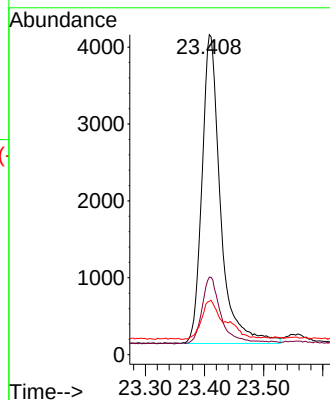
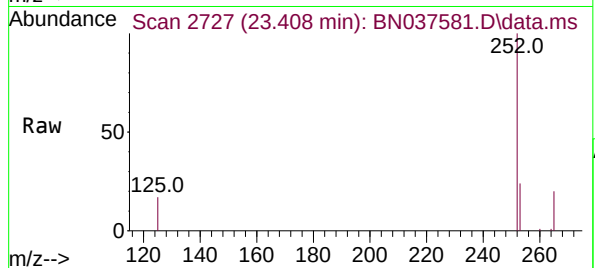
Tgt Ion:252 Resp: 8737

Ion Ratio Lower Upper

252 100

253 24.2 21.6 32.4

125 16.7 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.743 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

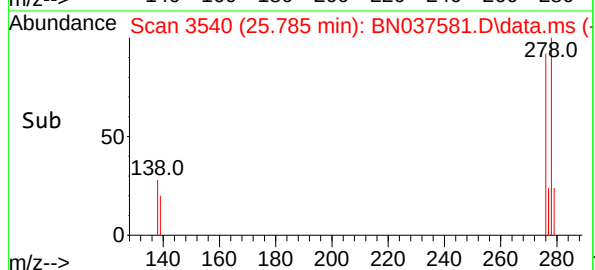
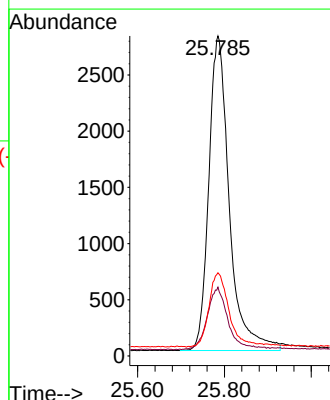
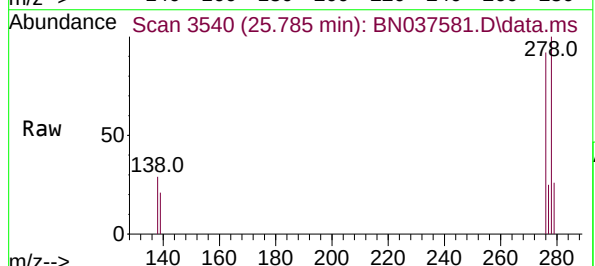
Tgt Ion:278 Resp: 9175

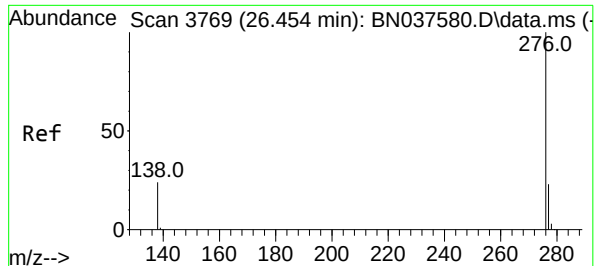
Ion Ratio Lower Upper

278 100

139 21.5 18.3 27.5

279 26.0 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.732 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037581.D

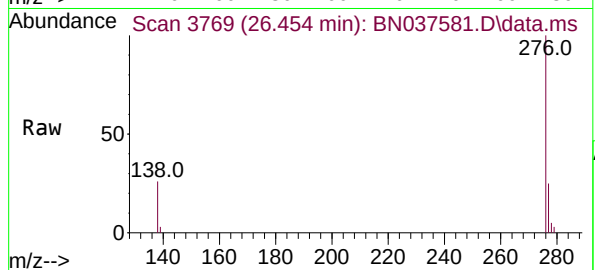
Acq: 12 Aug 2025 18:16

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



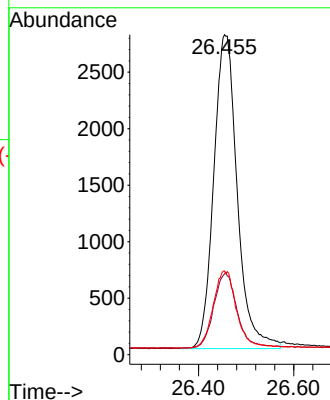
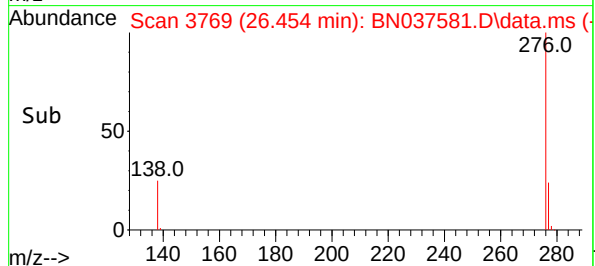
Tgt Ion:276 Resp: 9524

Ion Ratio Lower Upper

276 100

277 25.2 21.0 31.4

138 26.2 21.7 32.5



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

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

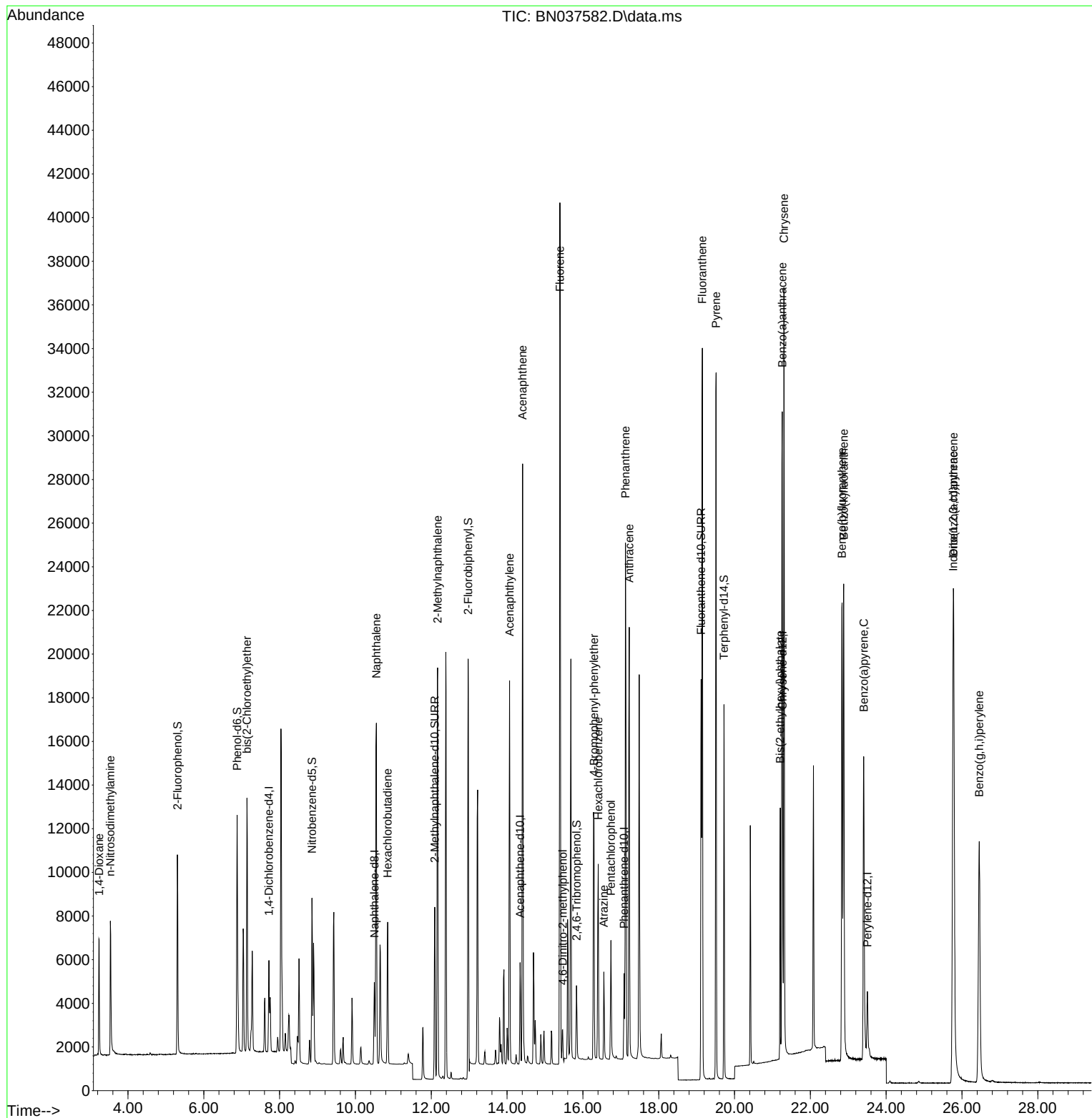
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1999	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4868	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2499	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4868	0.400	ng	0.00
29) Chrysene-d12	21.268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

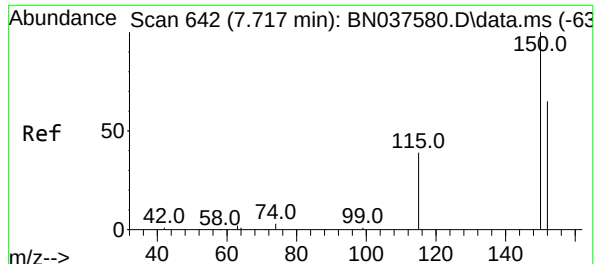
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

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

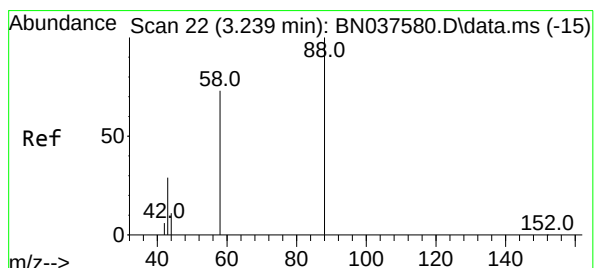
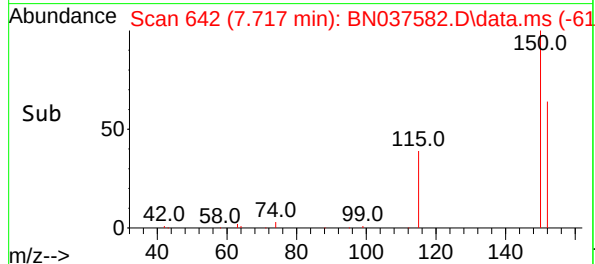
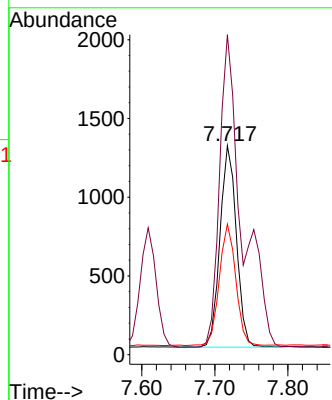
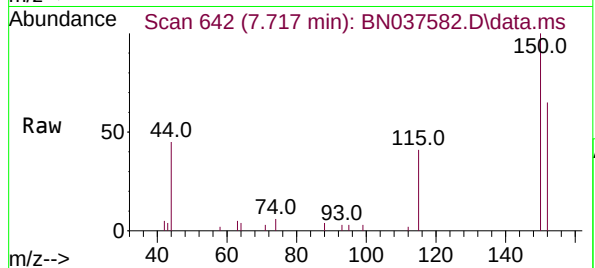




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

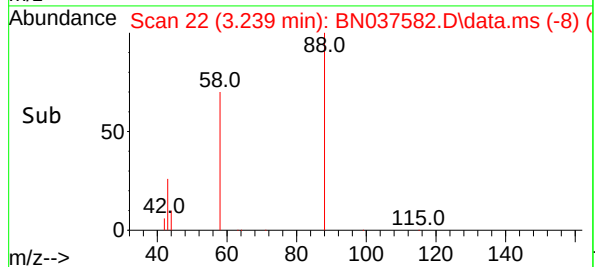
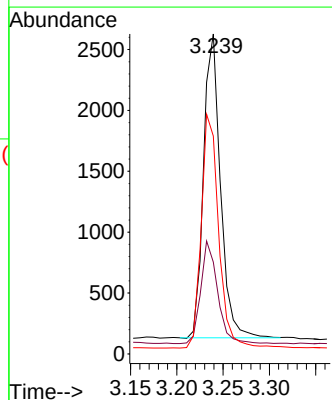
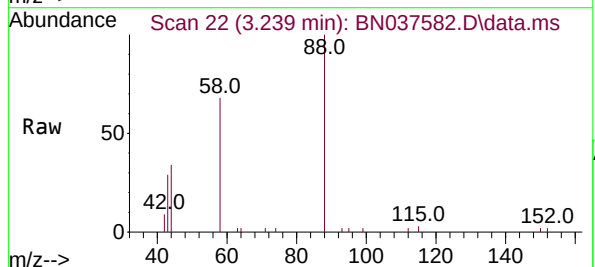
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

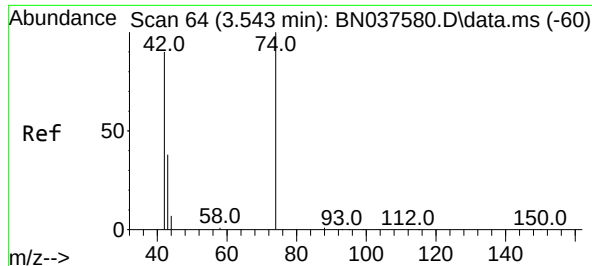
Tgt Ion:152 Resp: 1999
Ion Ratio Lower Upper
152 100
150 153.1 122.2 183.4
115 62.5 49.8 74.6



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

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

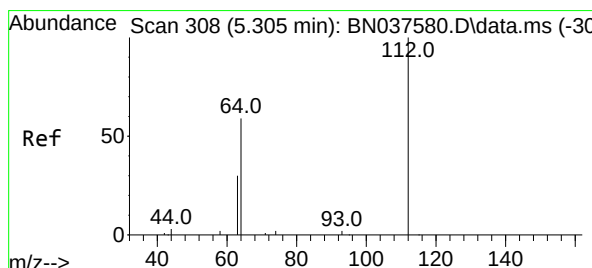
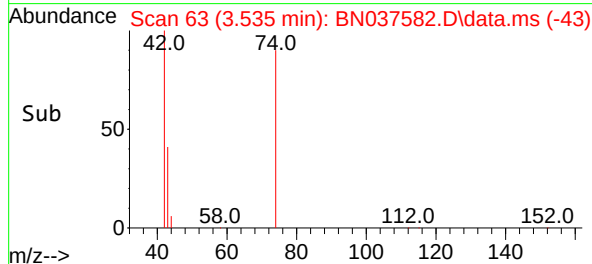
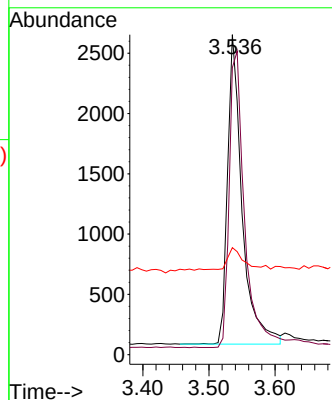
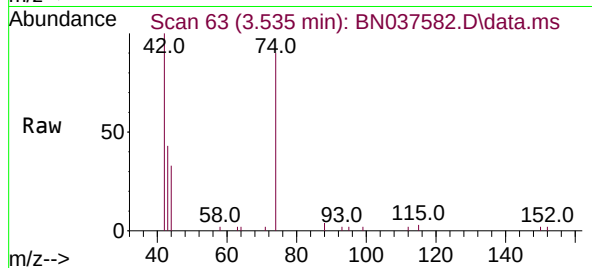




#3
n-Nitrosodimethylamine
Concen: 1.613 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

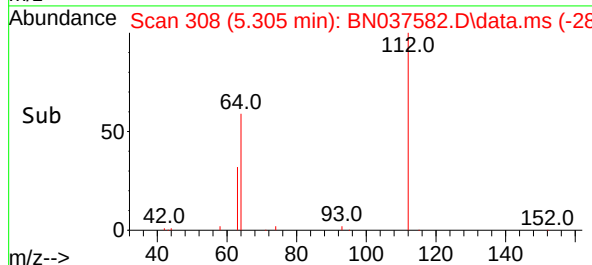
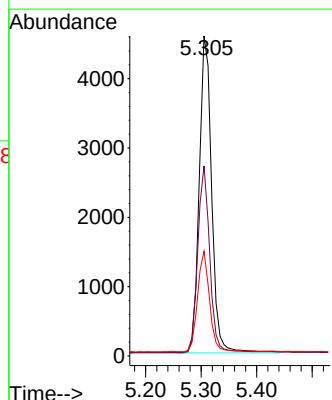
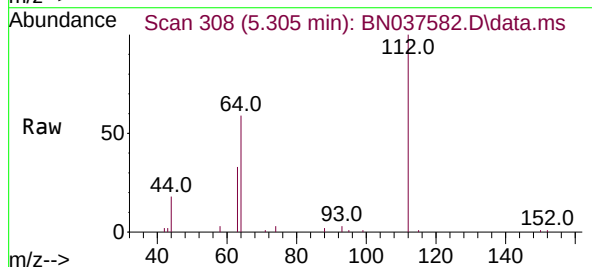
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

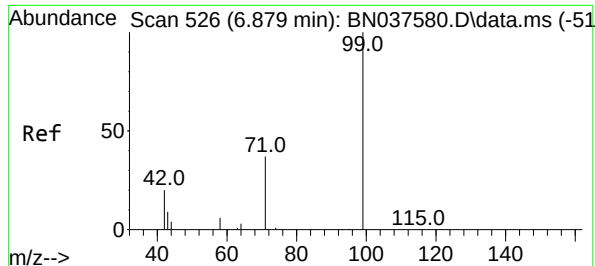
Tgt Ion: 42 Resp: 3942
Ion Ratio Lower Upper
42 100
74 105.0 82.0 123.0
44 8.0 7.9 11.9



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

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

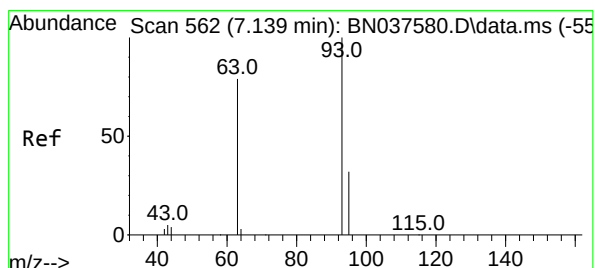
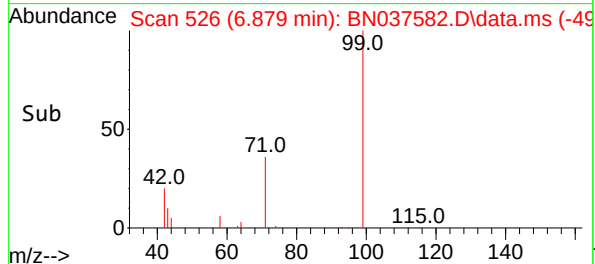
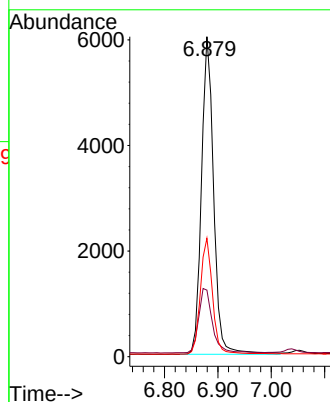
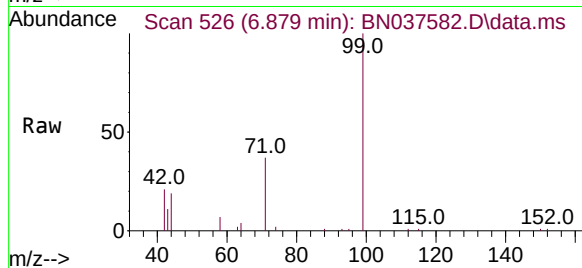




#5
Phenol-d6
Concen: 1.757 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

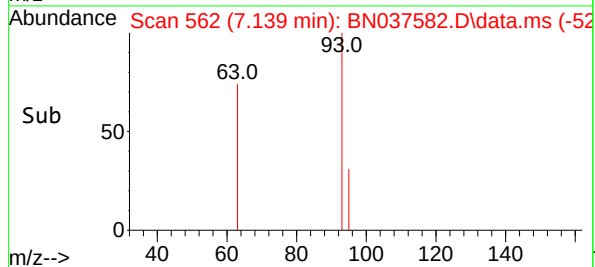
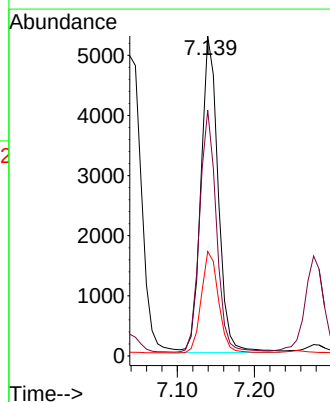
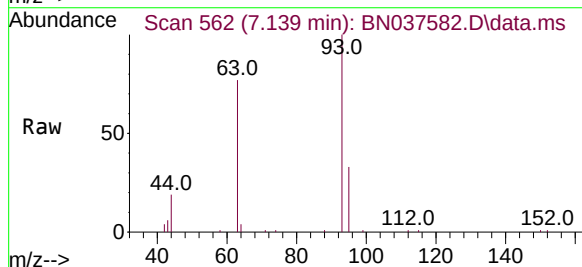
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

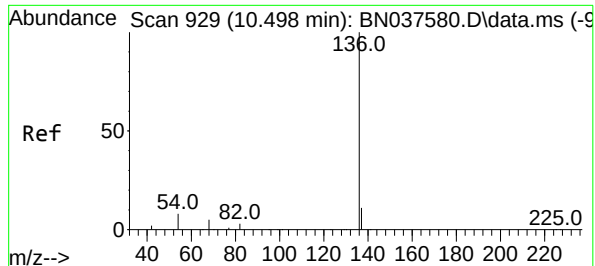
Tgt Ion:	99	Resp:	9580
Ion	Ratio	Lower	Upper
99	100		
42	22.9	18.5	27.7
71	36.8	28.6	42.8



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

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

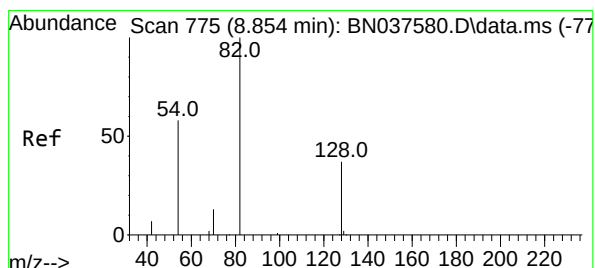
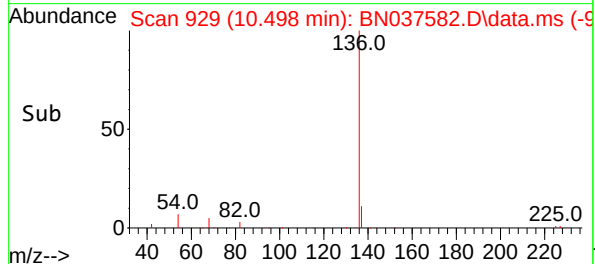
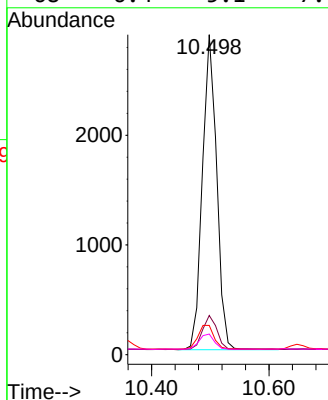
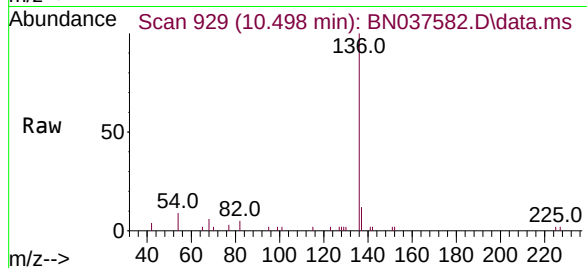




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

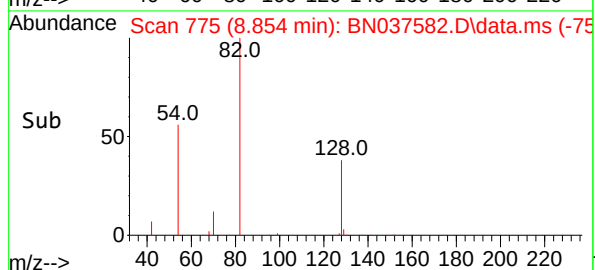
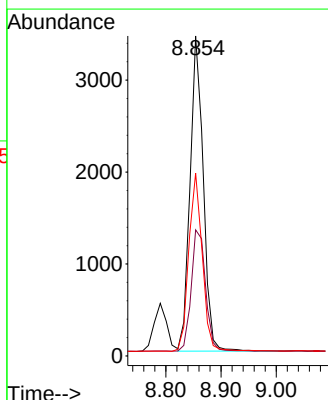
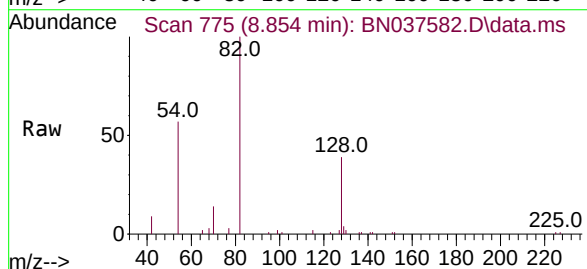
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

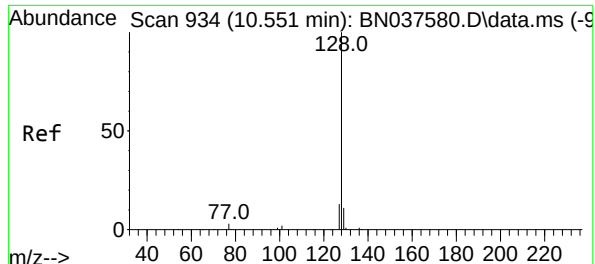
Tgt Ion:	136	Resp:	4868
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	9.1	7.3	10.9
68	6.4	5.1	7.7



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

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

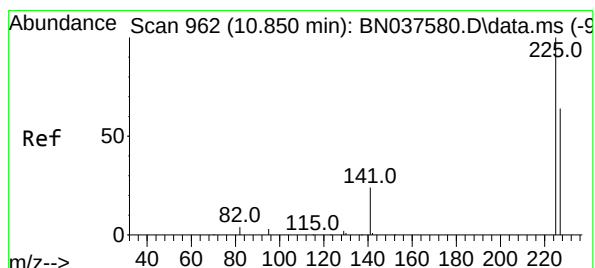
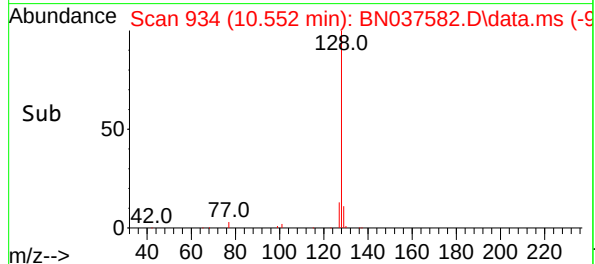
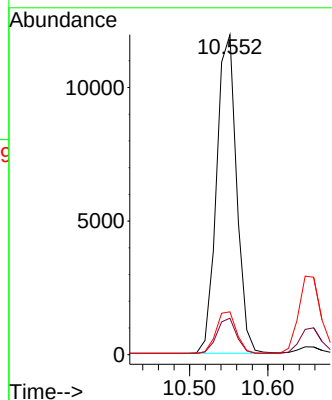
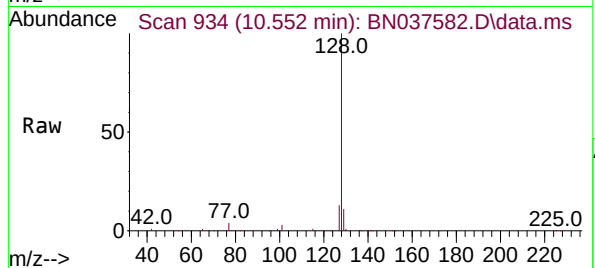




#9
Naphthalene
Concen: 1.636 ng
RT: 10.552 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

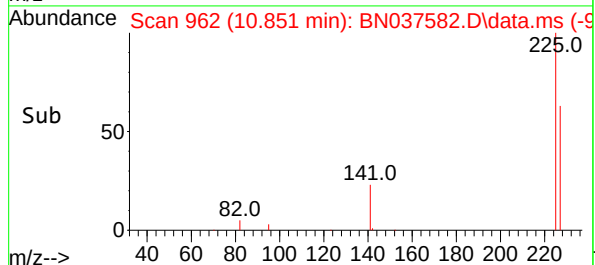
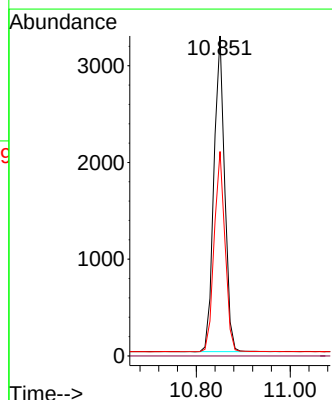
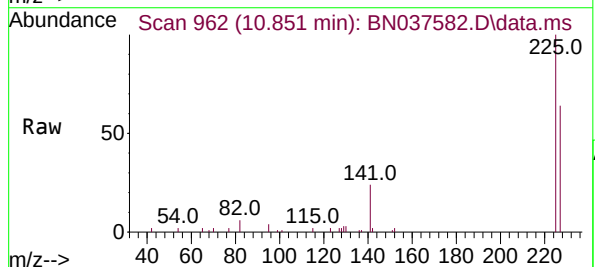
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

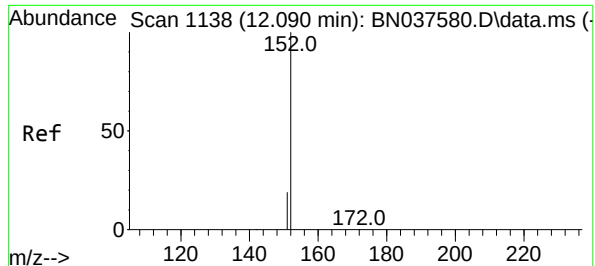
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.8	14.6
127	13.4	11.5	17.3



#10
Hexachlorobutadiene
Concen: 1.640 ng
RT: 10.851 min Scan# 962
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.8	76.2

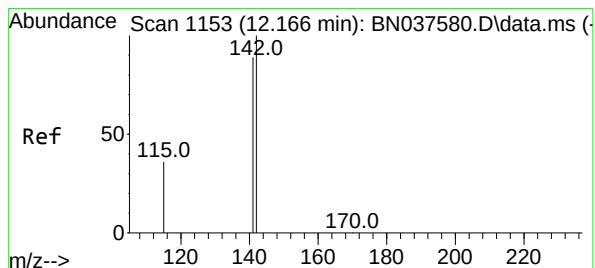
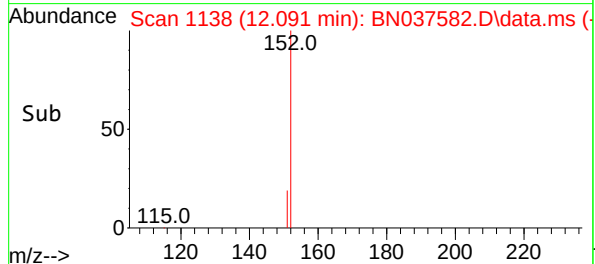
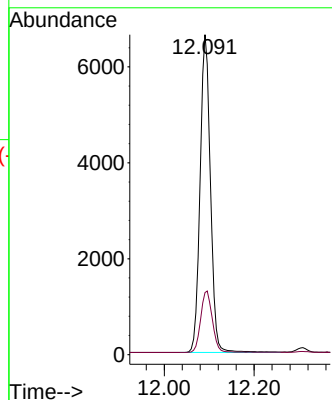
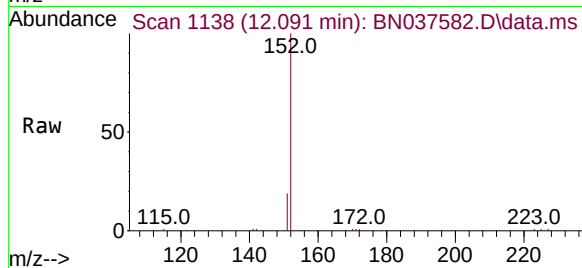




#11
2-Methylnaphthalene-d10
Concen: 1.597 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

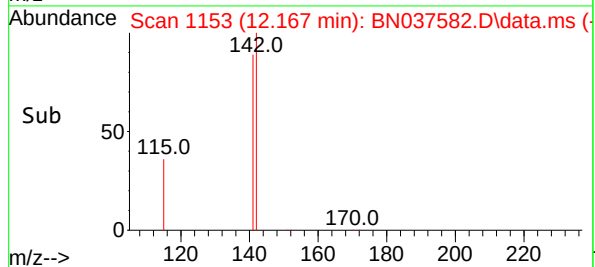
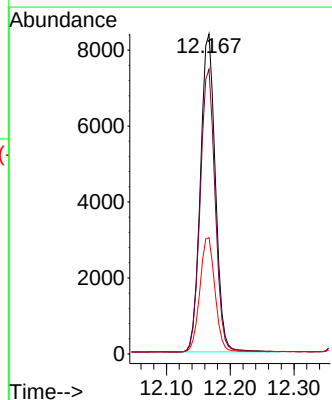
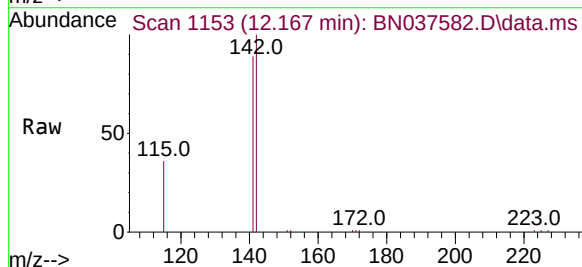
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

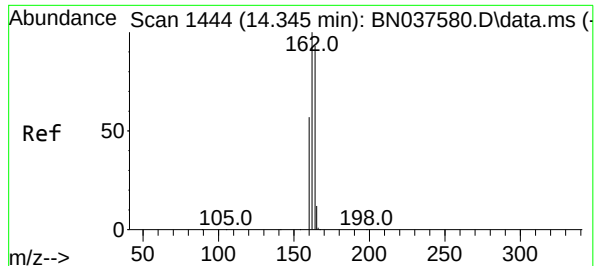
Tgt Ion:152 Resp: 10567
Ion Ratio Lower Upper
152 100
151 21.8 17.3 25.9



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

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

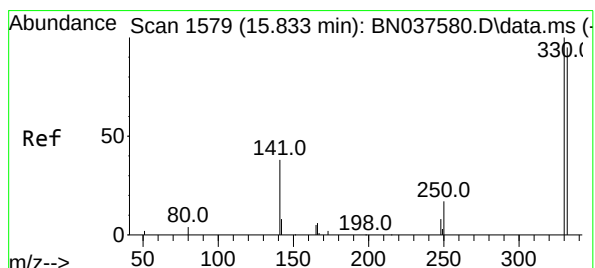
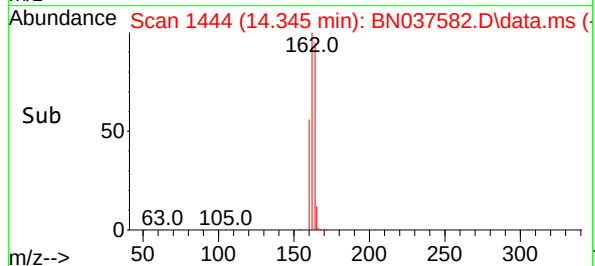
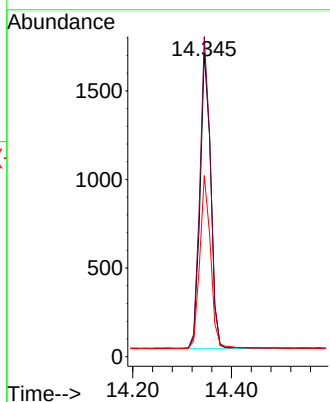
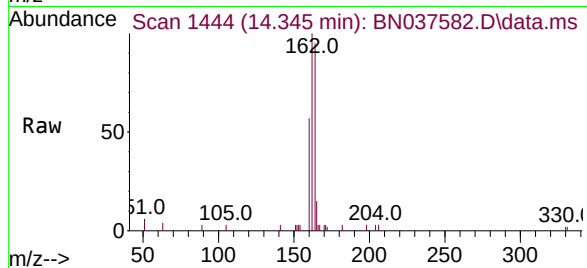




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

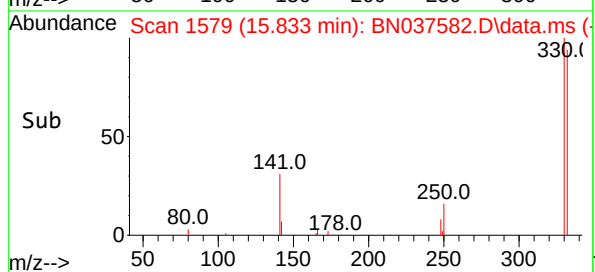
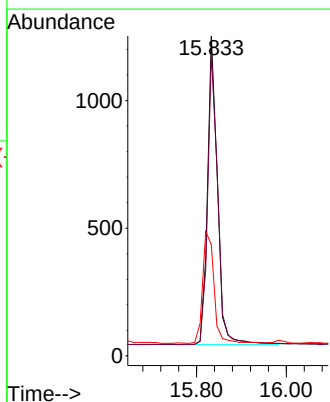
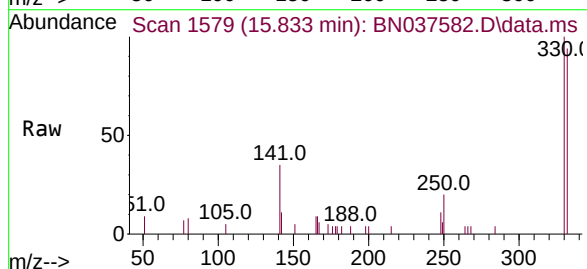
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

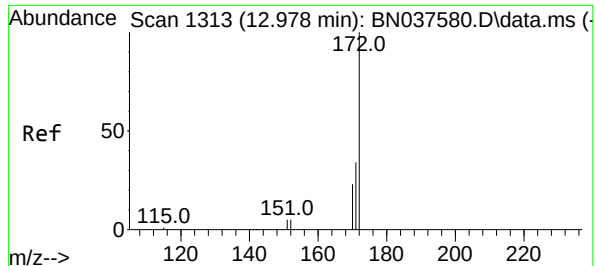
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.2	85.5	128.3
160	59.6	49.5	74.3



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

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

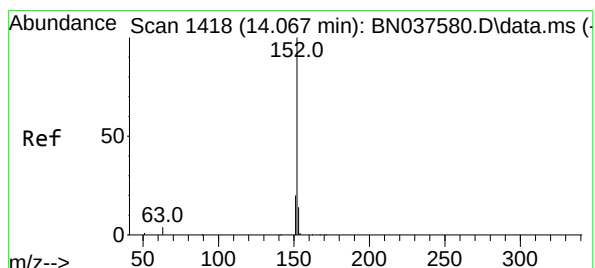
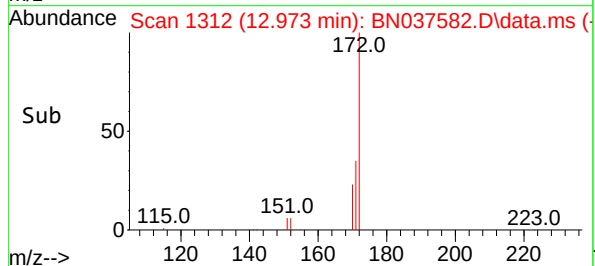
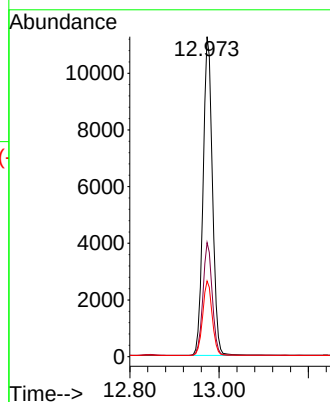
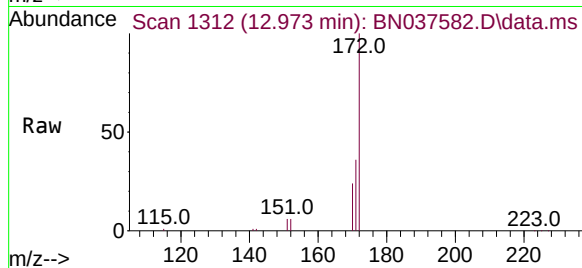




#15
2-Fluorobiphenyl
Concen: 1.619 ng
RT: 12.973 min Scan# 1312
Delta R.T. -0.005 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

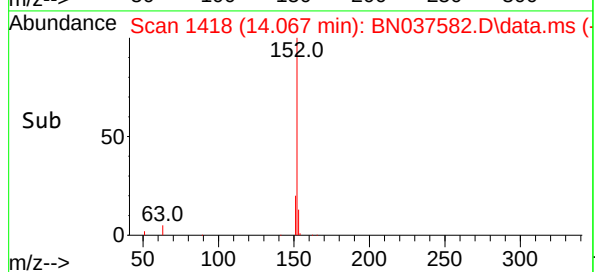
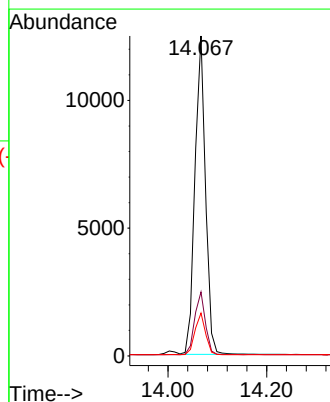
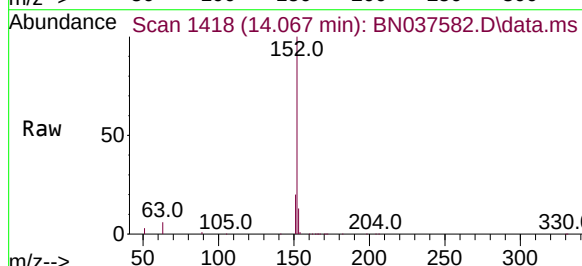
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

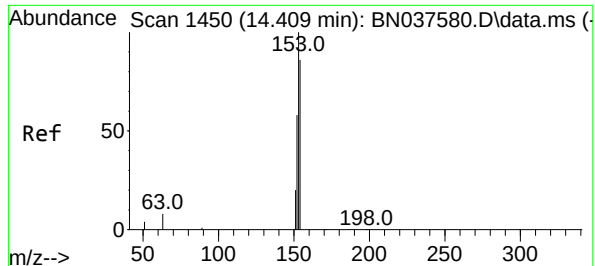
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.4
170	23.7	19.2	28.8



#16
Acenaphthylene
Concen: 1.651 ng
RT: 14.067 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.1	24.1
153	13.0	10.7	16.1





#17

Acenaphthene

Concen: 1.682 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

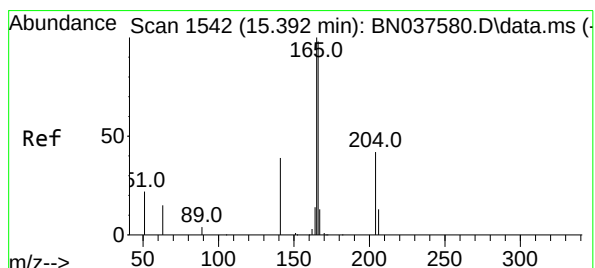
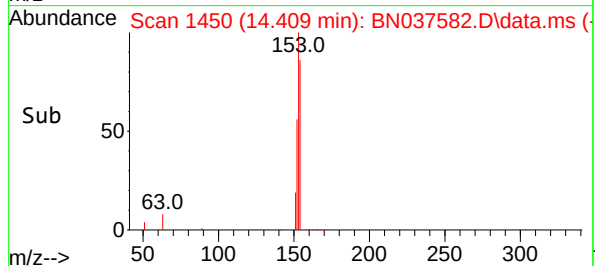
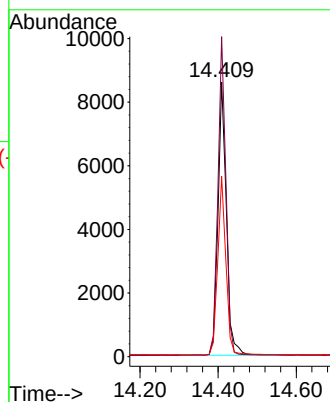
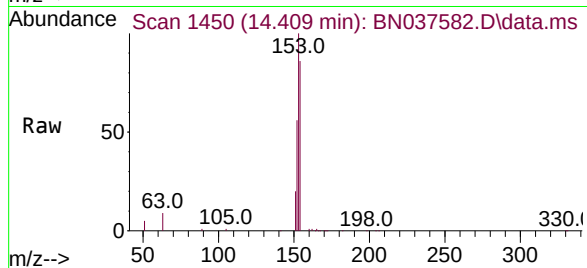
Tgt Ion:154 Resp: 12820

Ion Ratio Lower Upper

154 100

153 110.6 90.6 135.8

152 63.8 54.9 82.3



#18

Fluorene

Concen: 1.691 ng

RT: 15.393 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

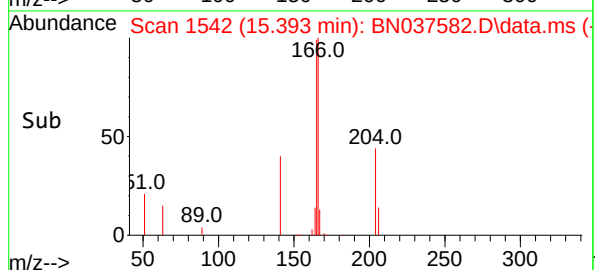
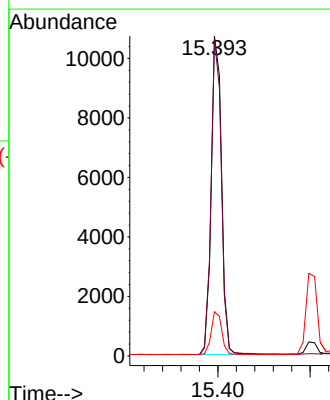
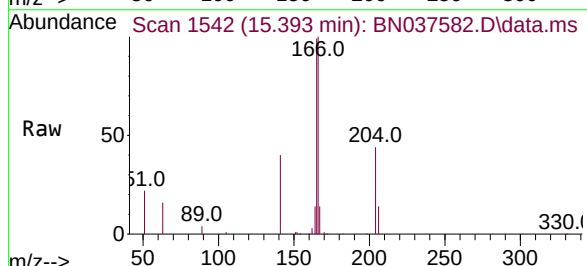
Tgt Ion:166 Resp: 16858

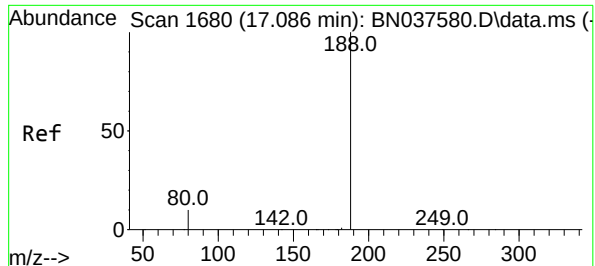
Ion Ratio Lower Upper

166 100

165 99.0 78.9 118.3

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

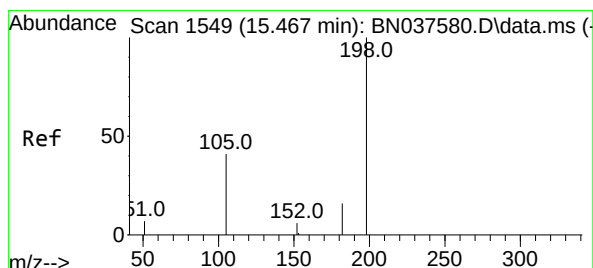
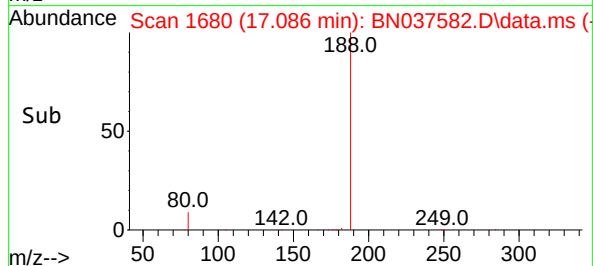
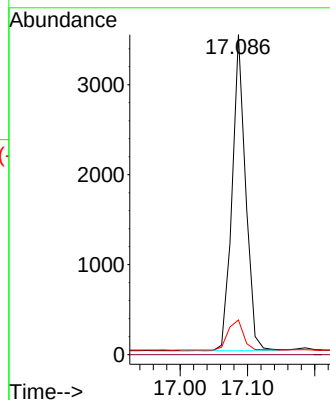
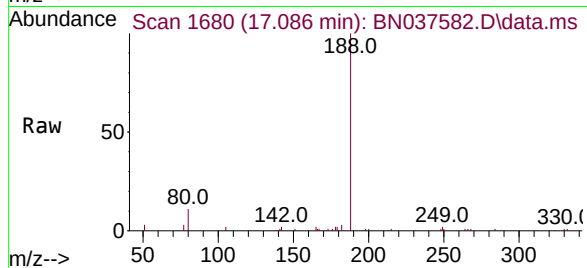
Tgt Ion:188 Resp: 4868

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 1.517 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

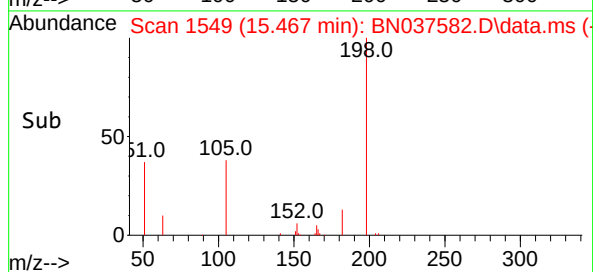
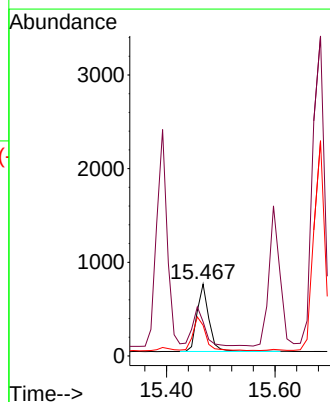
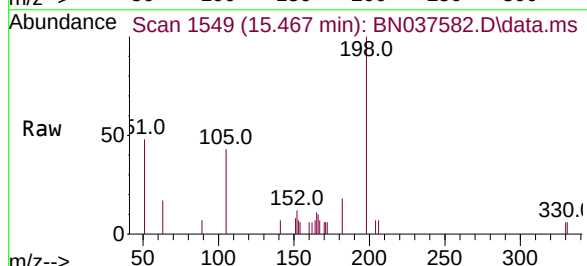
Tgt Ion:198 Resp: 1182

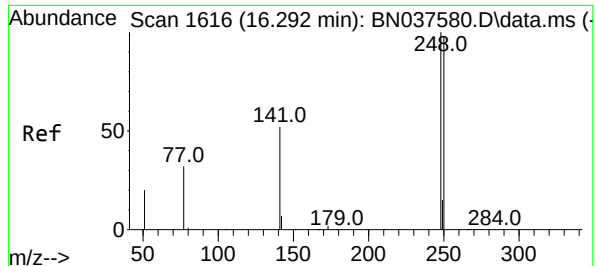
Ion Ratio Lower Upper

198 100

51 47.6 81.0 121.6#

105 42.8 52.5 78.7#

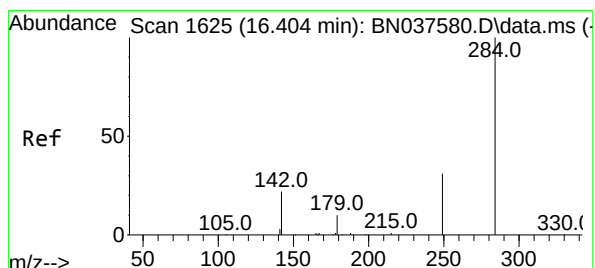
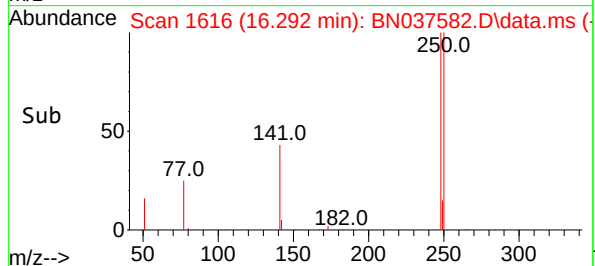
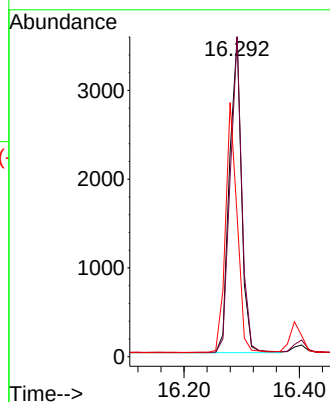
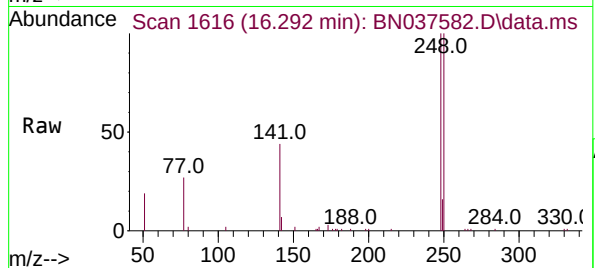




#21
4-Bromophenyl-phenylether
Concen: 1.686 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

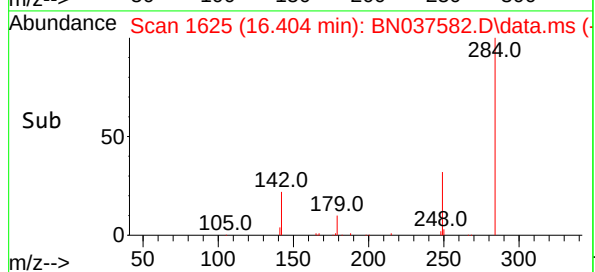
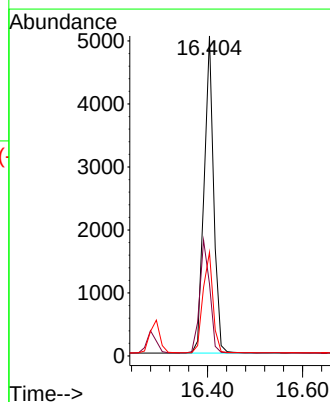
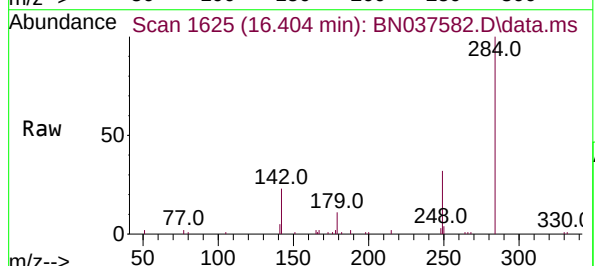
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

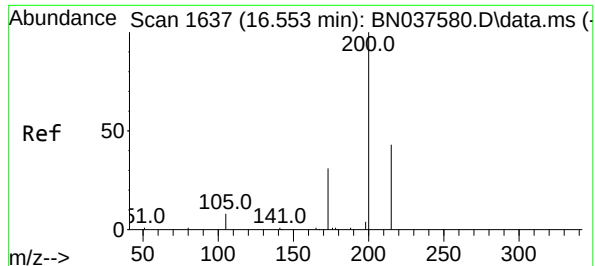
Tgt Ion:248 Resp: 5158
Ion Ratio Lower Upper
248 100
250 100.1 78.6 118.0
141 43.9 43.7 65.5



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

Tgt Ion:284 Resp: 7080
Ion Ratio Lower Upper
284 100
142 37.2 29.8 44.6
249 33.1 26.0 39.0





#23

Atrazine

Concen: 1.803 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

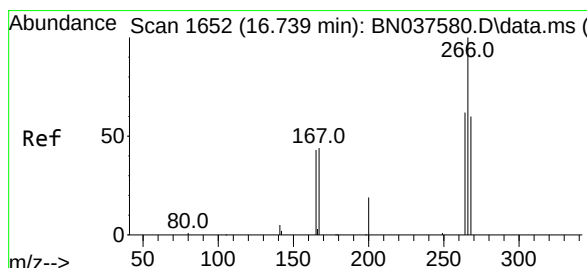
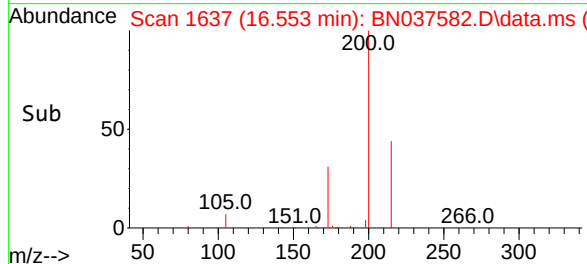
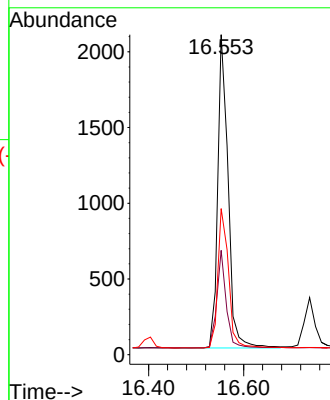
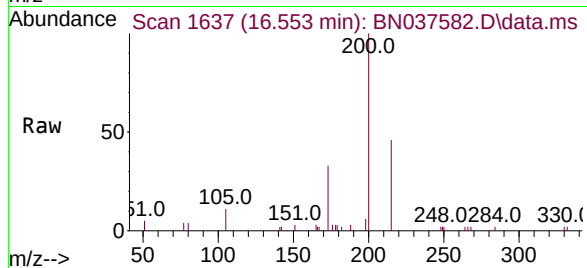
Tgt Ion:200 Resp: 3118

Ion Ratio Lower Upper

200 100

173 32.6 31.0 46.4

215 45.7 39.4 59.0



#24

Pentachlorophenol

Concen: 1.775 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

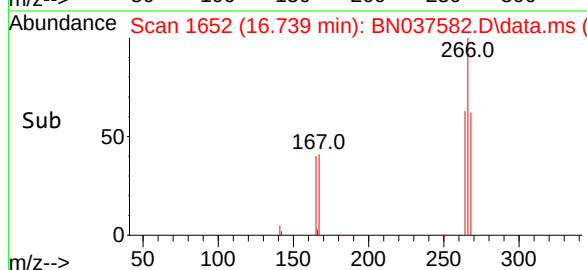
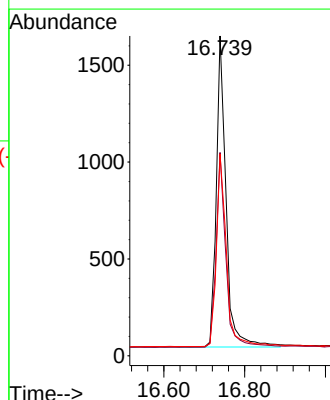
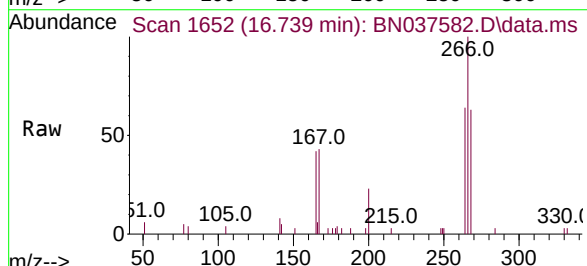
Tgt Ion:266 Resp: 2704

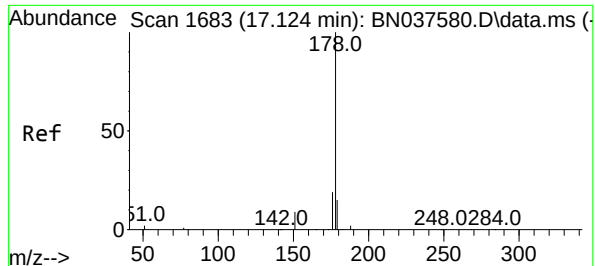
Ion Ratio Lower Upper

266 100

264 62.2 49.6 74.4

268 63.5 49.2 73.8

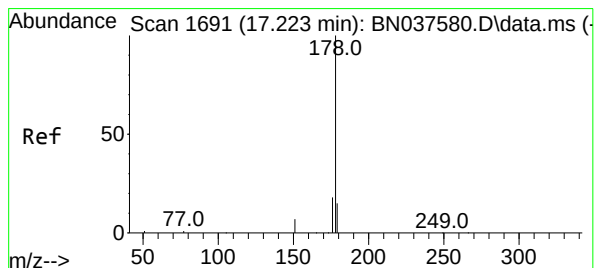
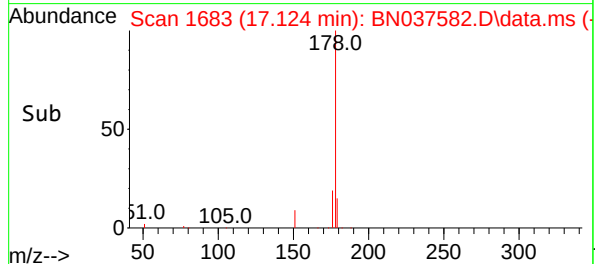
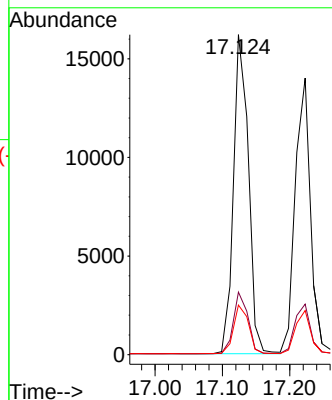
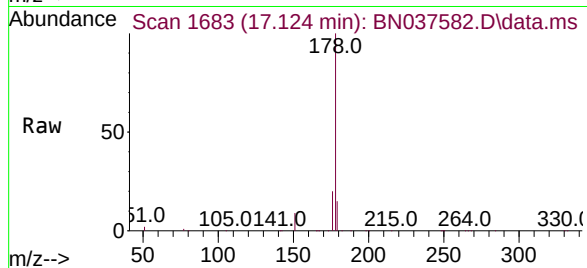




#25
Phenanthrene
Concen: 1.685 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

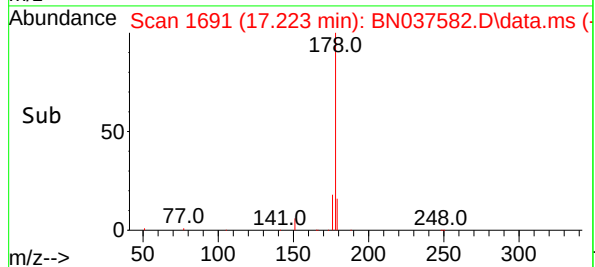
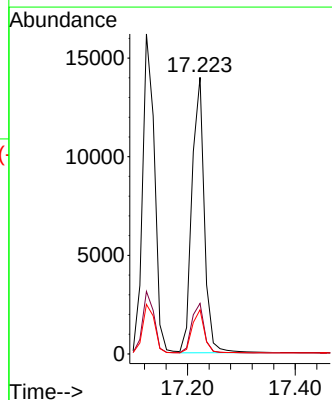
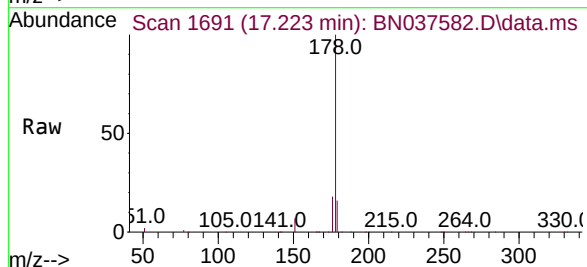
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

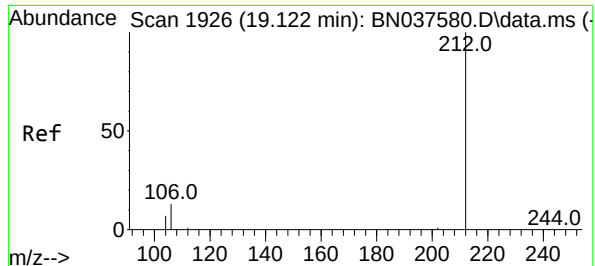
Tgt Ion:178 Resp: 24938
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5



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

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





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

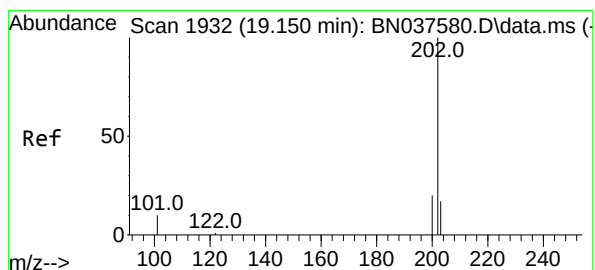
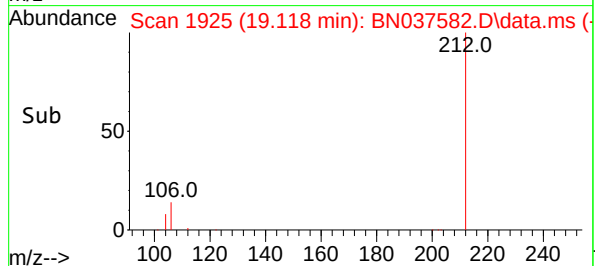
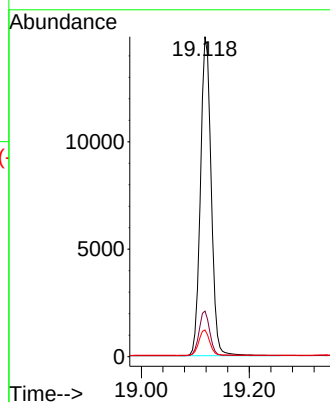
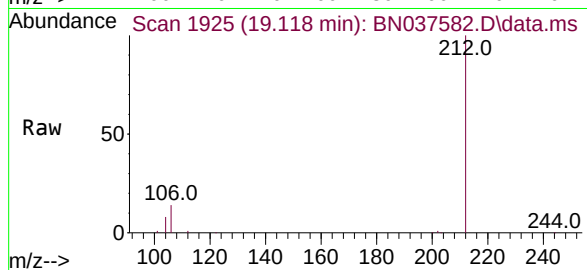
Tgt Ion:212 Resp: 20450

Ion Ratio Lower Upper

212 100

106 14.0 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 1.721 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

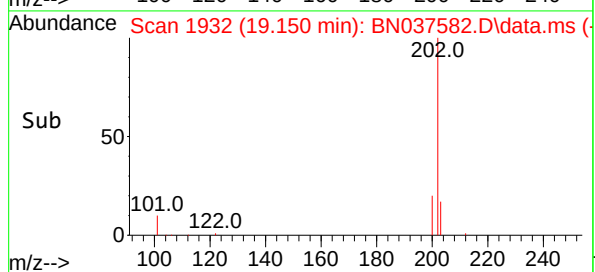
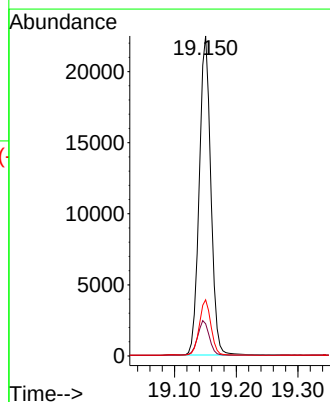
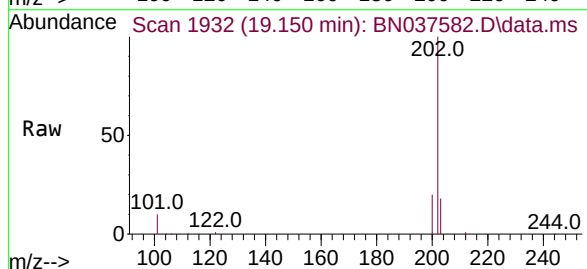
Tgt Ion:202 Resp: 29263

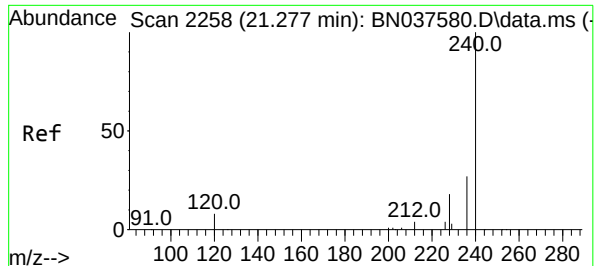
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

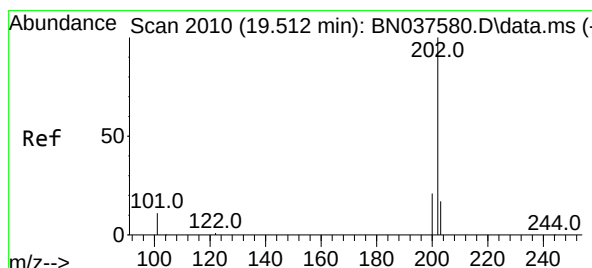
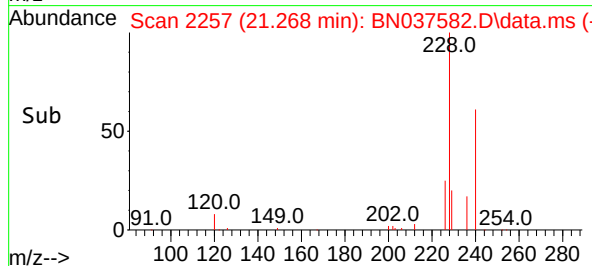
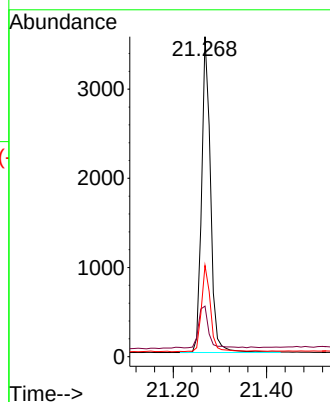
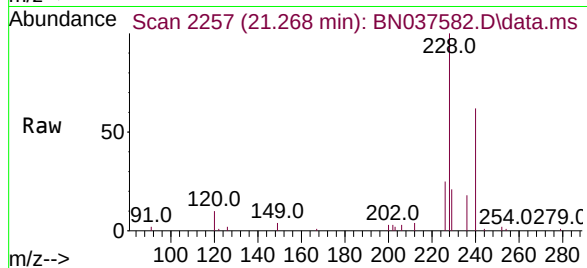
Tgt Ion:240 Resp: 4728

Ion Ratio Lower Upper

240 100

120 15.8 8.9 13.3#

236 28.5 22.6 33.8



#30

Pyrene

Concen: 1.607 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

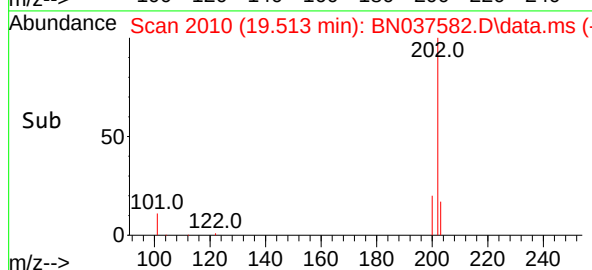
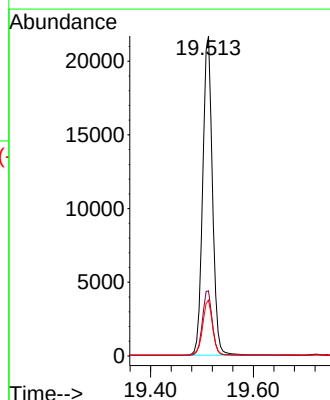
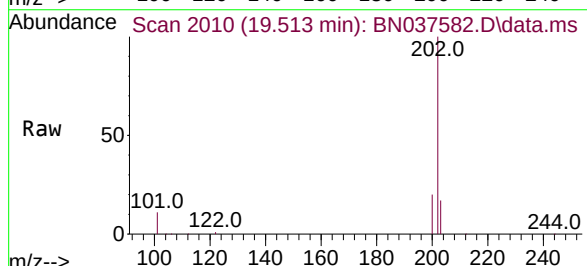
Tgt Ion:202 Resp: 28406

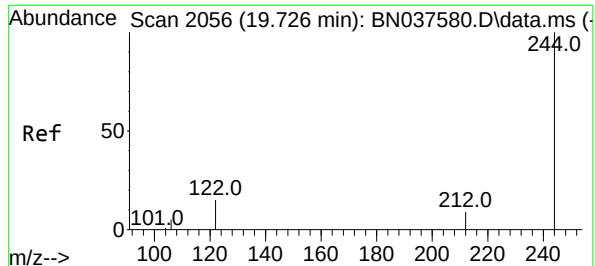
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.6 14.3 21.5

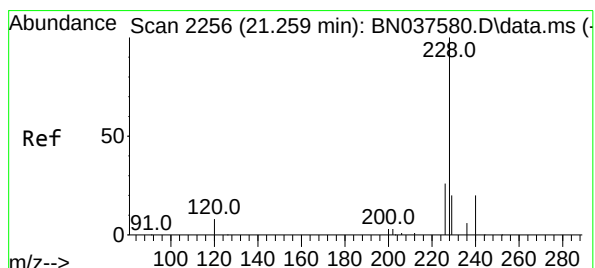
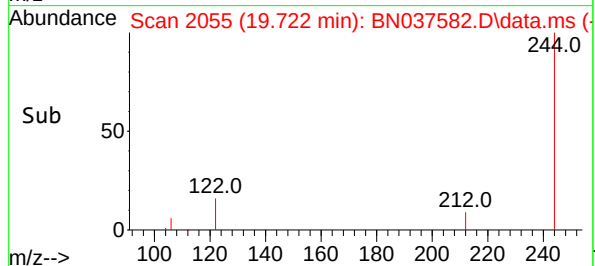
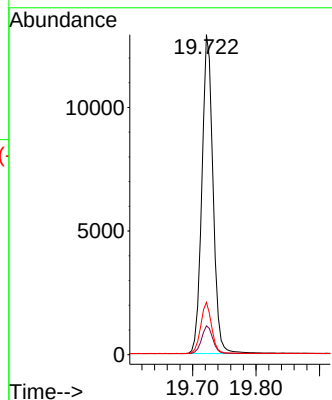
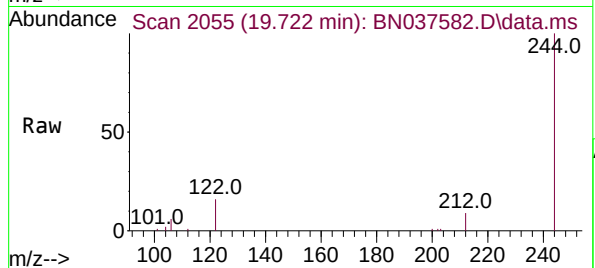




#31
Terphenyl-d14
Concen: 1.620 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037582.D
Acq: 12 Aug 2025 18:52

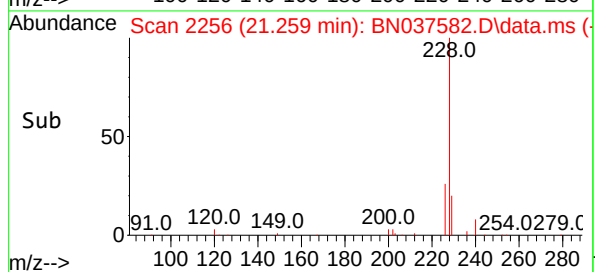
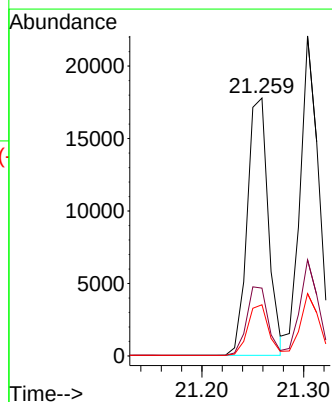
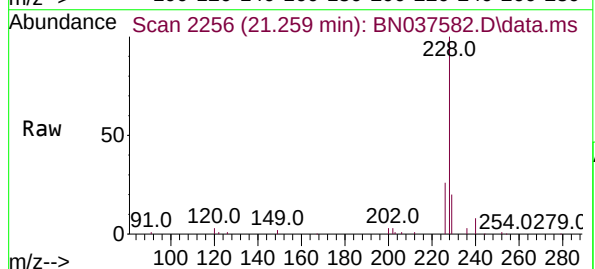
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

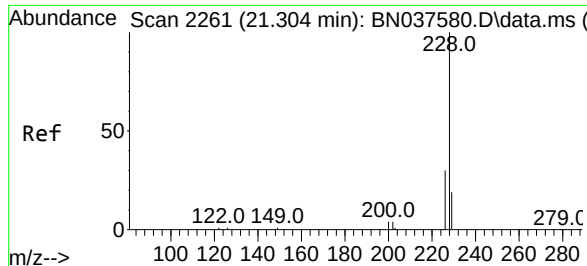
Tgt Ion:244 Resp: 15761
Ion Ratio Lower Upper
244 100
212 9.0 8.2 12.2
122 16.3 13.2 19.8



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

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





#33

Chrysene

Concen: 1.624 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

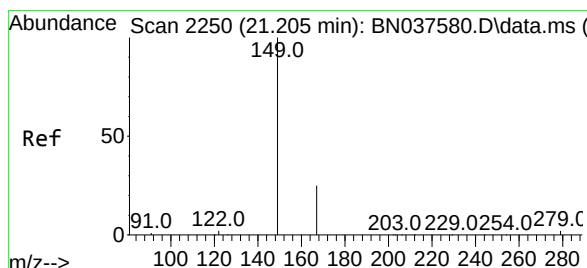
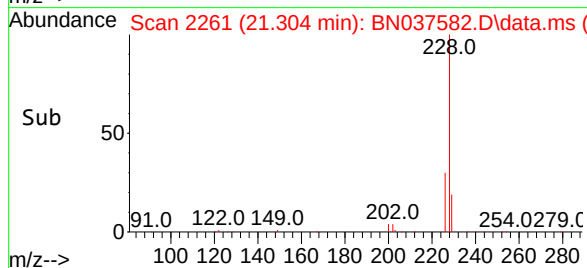
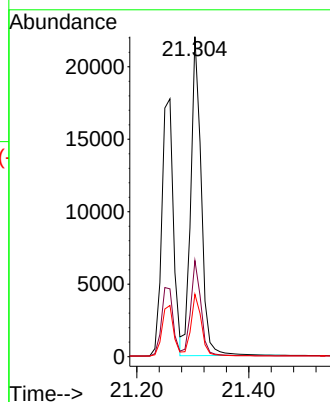
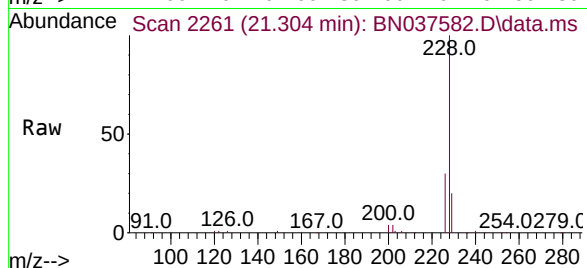
Tgt Ion:228 Resp: 28577

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

229 19.5 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.514 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

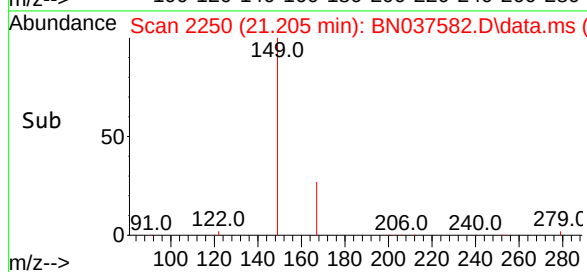
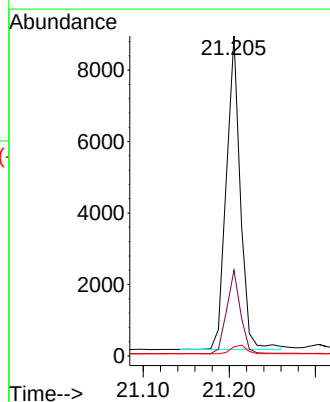
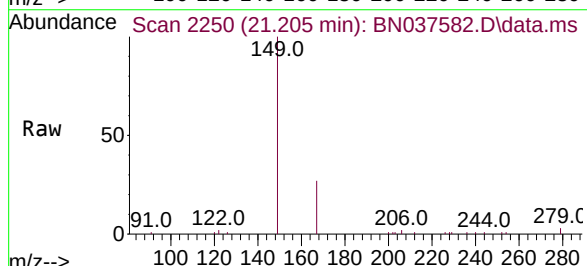
Tgt Ion:149 Resp: 9868

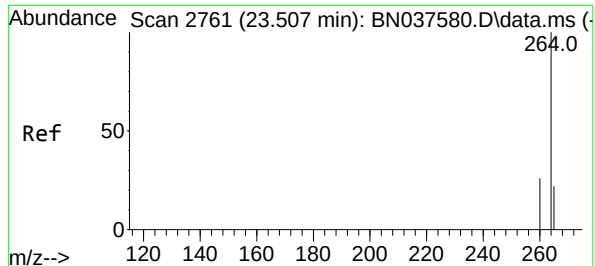
Ion Ratio Lower Upper

149 100

167 26.1 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

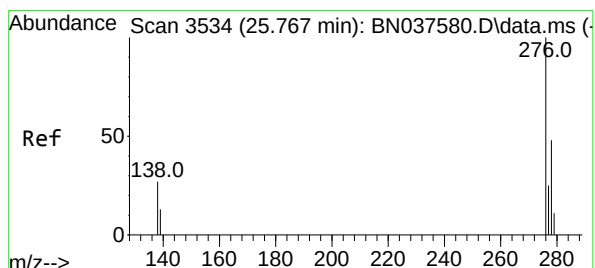
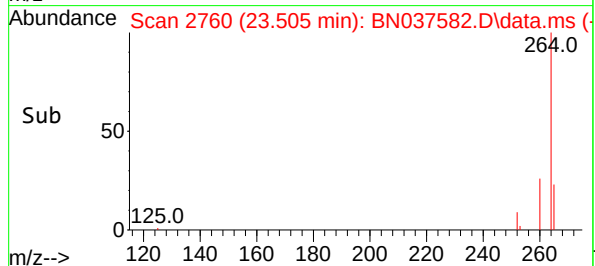
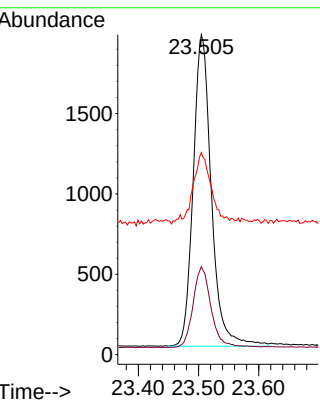
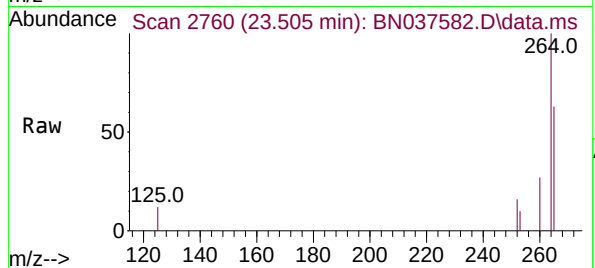
Tgt Ion:264 Resp: 4054

Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

265 63.1 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.724 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

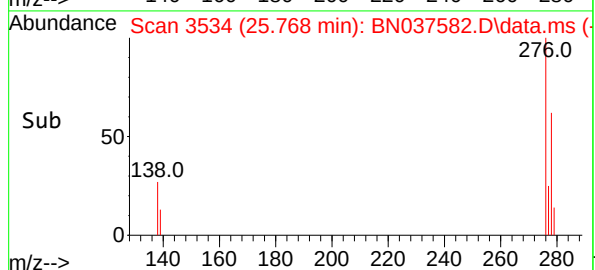
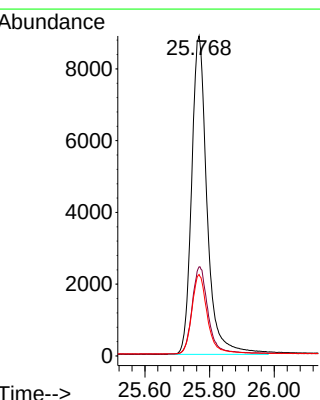
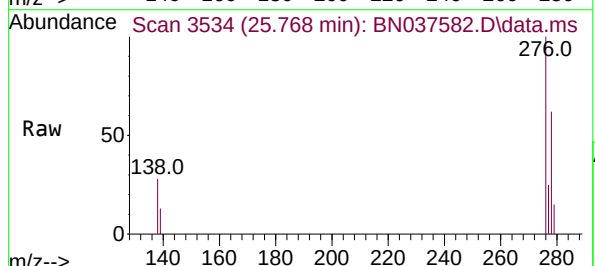
Tgt Ion:276 Resp: 29448

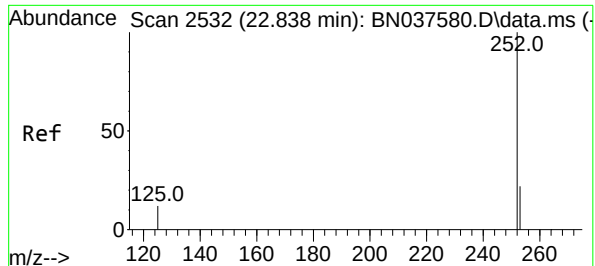
Ion Ratio Lower Upper

276 100

138 28.3 23.3 34.9

277 25.0 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 1.705 ng

RT: 22.835 min Scan# 2532

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

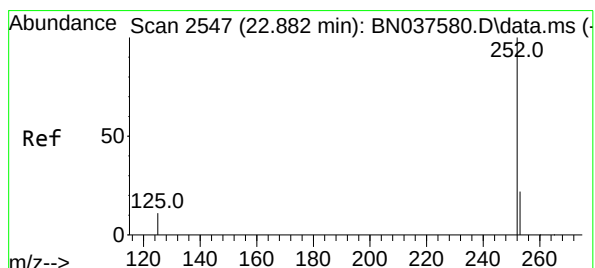
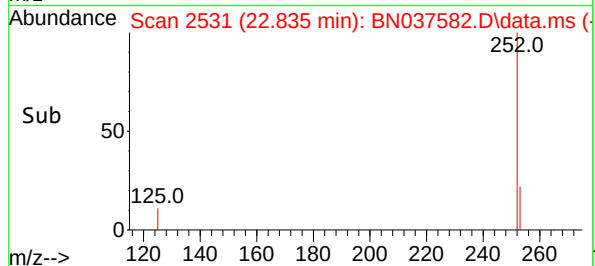
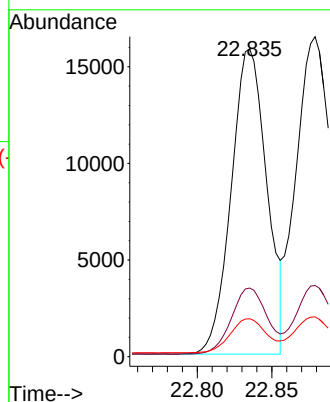
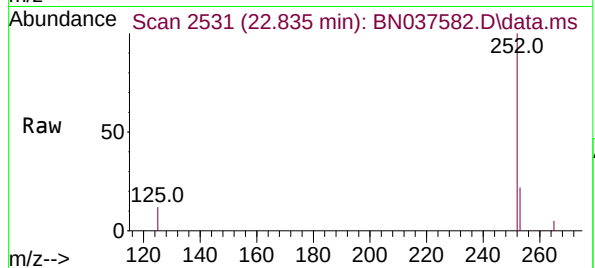
Tgt Ion:252 Resp: 26189

Ion Ratio Lower Upper

252 100

253 22.3 20.0 30.0

125 12.3 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 1.703 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

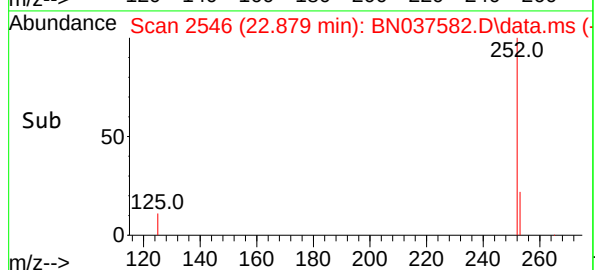
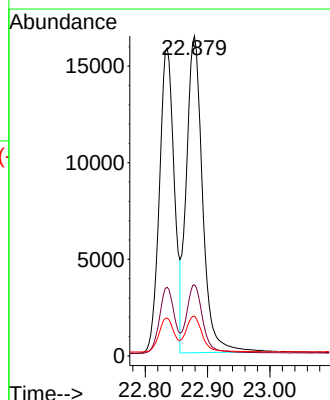
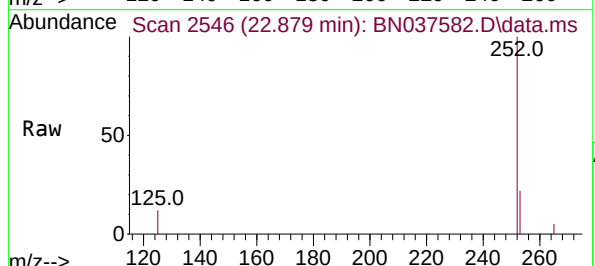
Tgt Ion:252 Resp: 29528

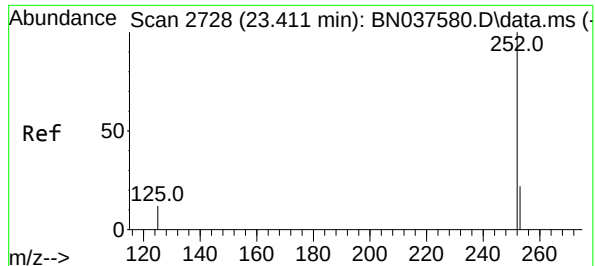
Ion Ratio Lower Upper

252 100

253 22.2 19.9 29.9

125 12.5 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 1.683 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

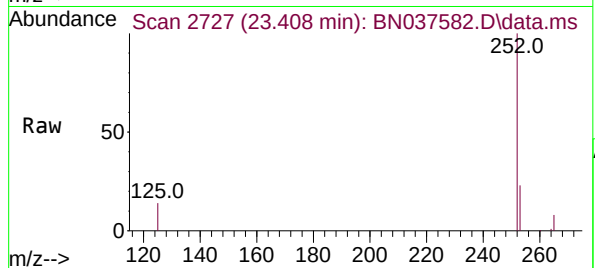
Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



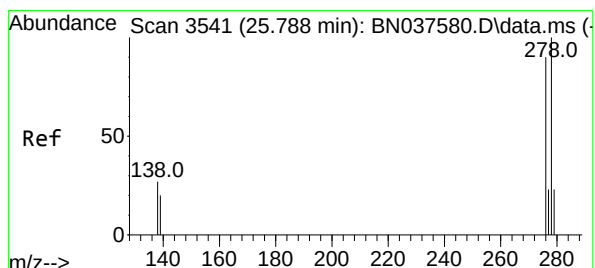
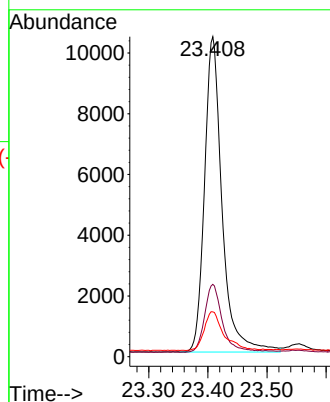
Tgt Ion:252 Resp: 21441

Ion Ratio Lower Upper

252 100

253 22.6 21.6 32.4

125 14.0 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.761 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

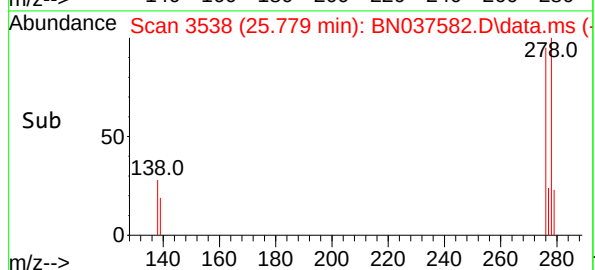
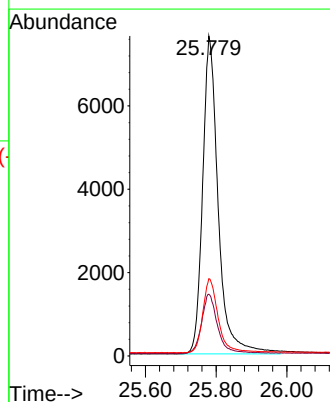
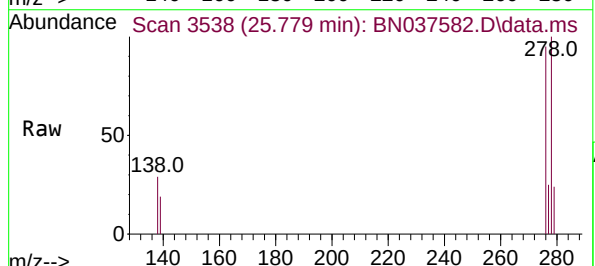
Tgt Ion:278 Resp: 23334

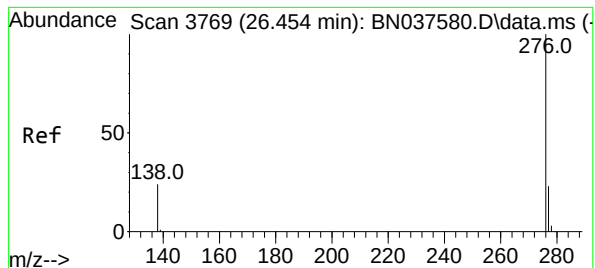
Ion Ratio Lower Upper

278 100

139 19.3 18.3 27.5

279 24.2 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 1.703 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037582.D

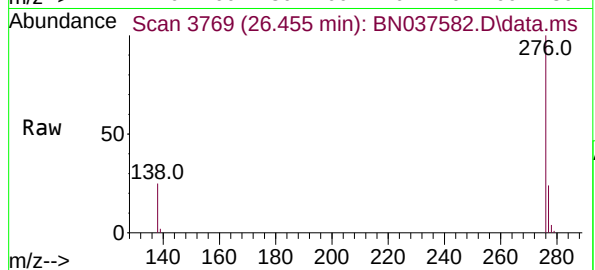
Acq: 12 Aug 2025 18:52

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



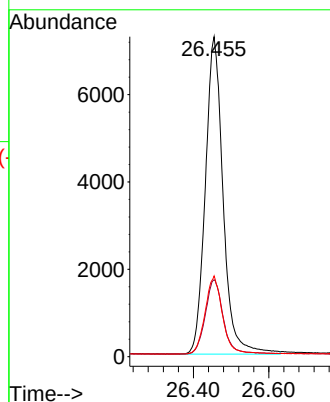
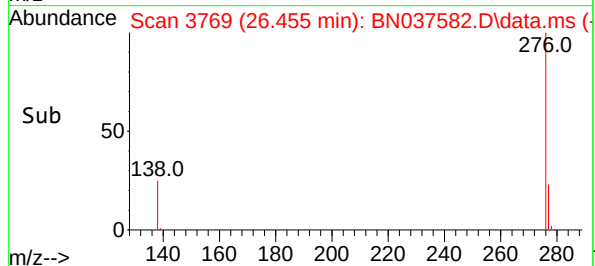
Tgt Ion:276 Resp: 23781

Ion Ratio Lower Upper

276 100

277 24.1 21.0 31.4

138 25.2 21.7 32.5



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

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

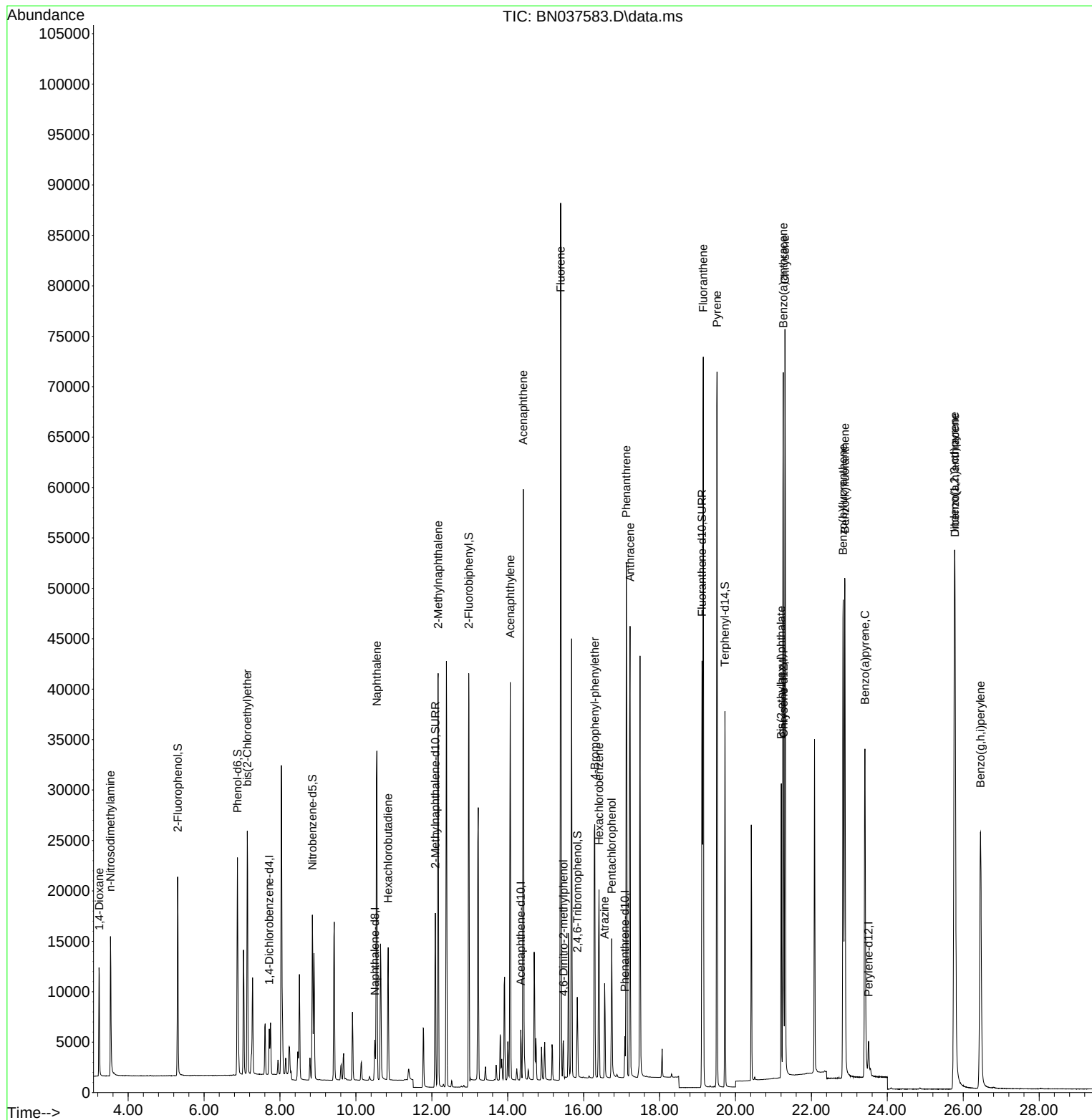
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2075	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5019	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2699	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	5200	0.400	ng	0.00
29) Chrysene-d12	21.268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

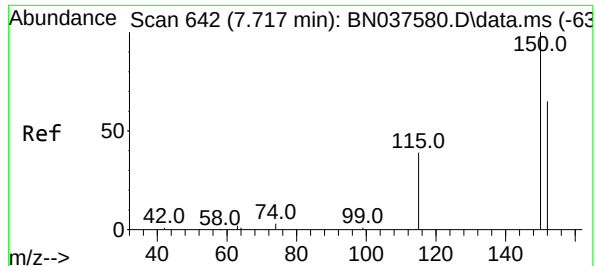
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

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

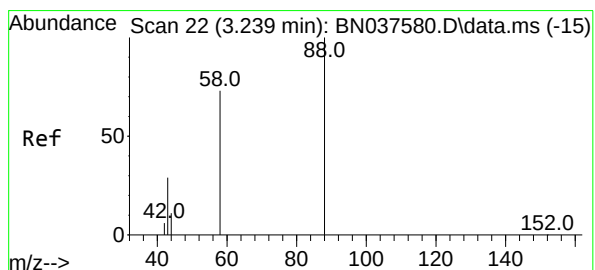
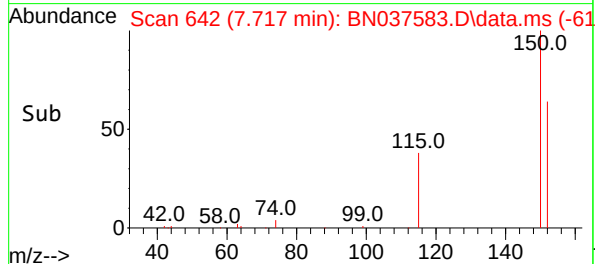
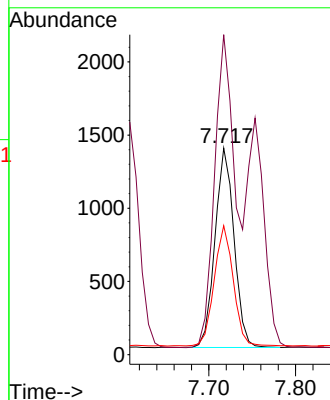
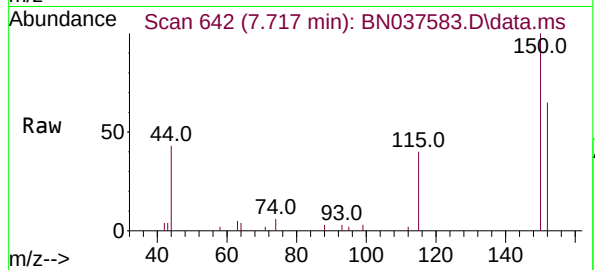




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

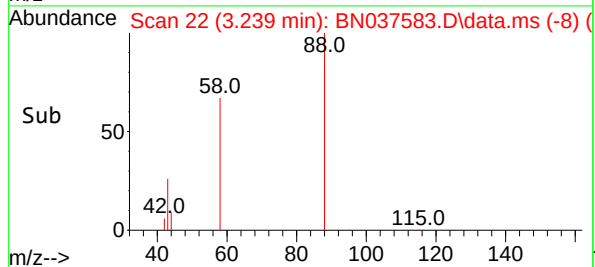
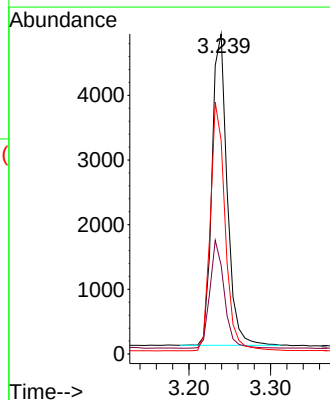
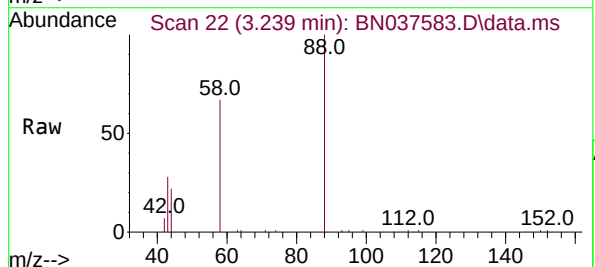
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

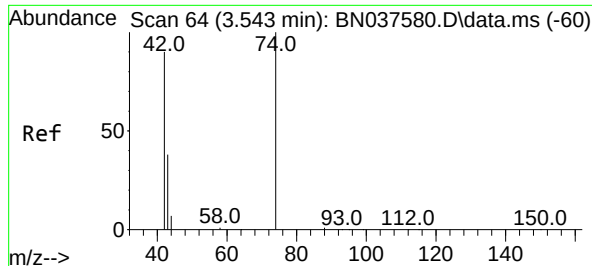
Tgt Ion:152 Resp: 2075
Ion Ratio Lower Upper
152 100
150 154.9 122.2 183.4
115 62.4 49.8 74.6



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

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

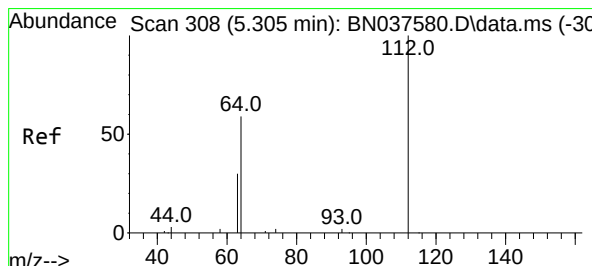
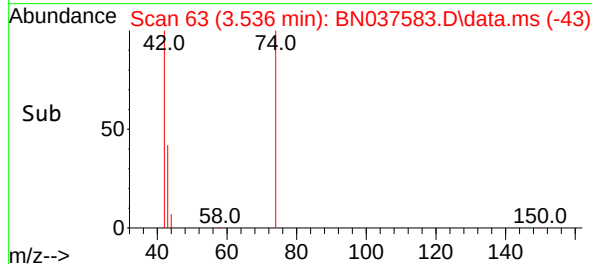
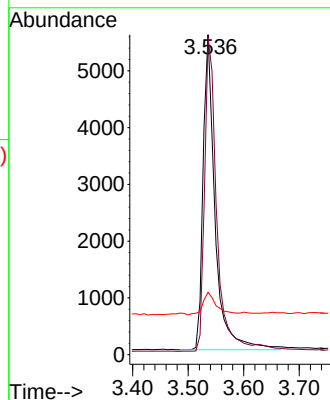
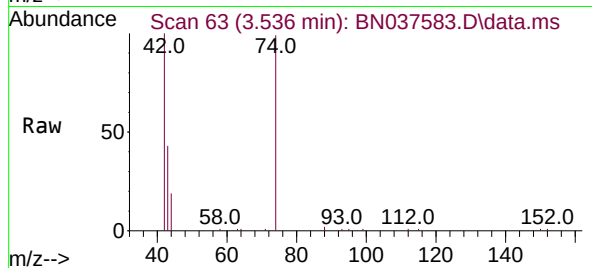




#3
n-Nitrosodimethylamine
Concen: 3.292 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

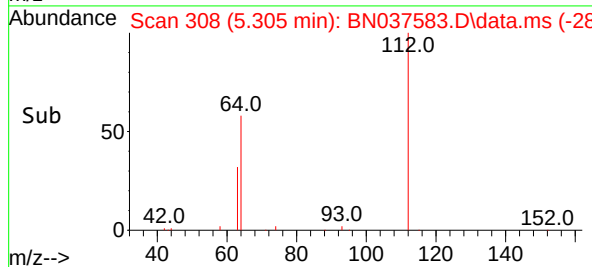
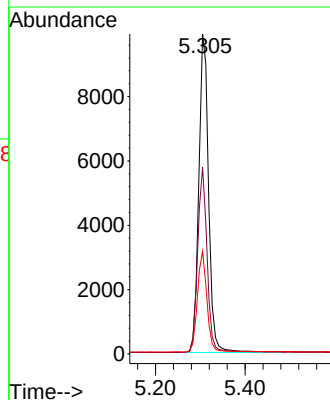
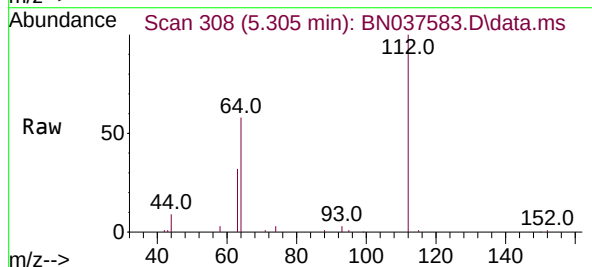
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

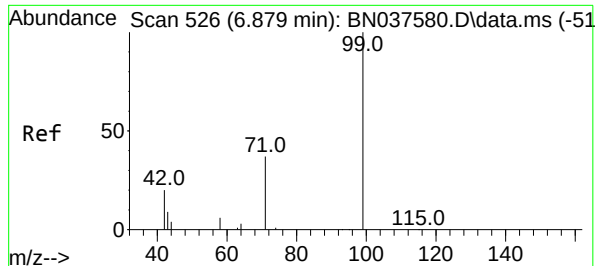
Tgt Ion: 42 Resp: 8352
Ion Ratio Lower Upper
42 100
74 99.7 82.0 123.0
44 8.0 7.9 11.9



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

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

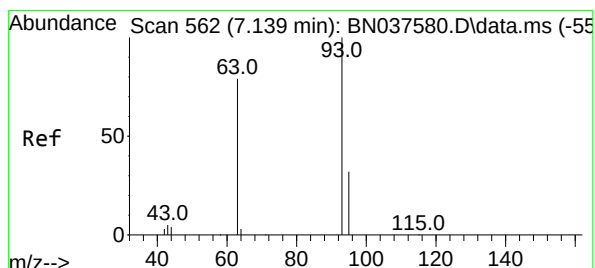
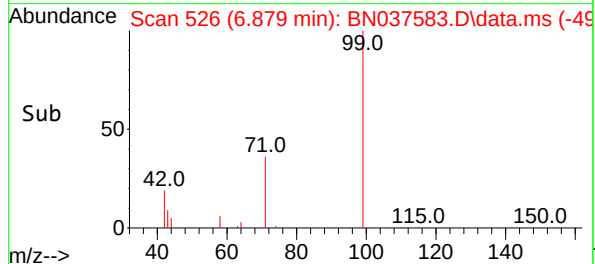
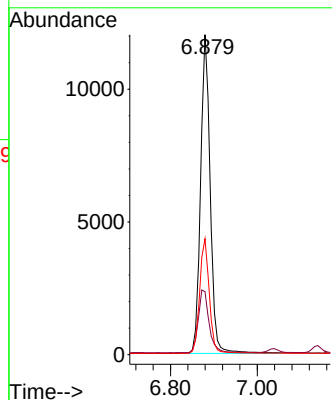
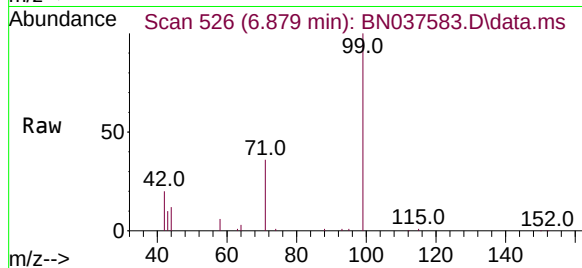




#5
Phenol-d6
Concen: 3.276 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

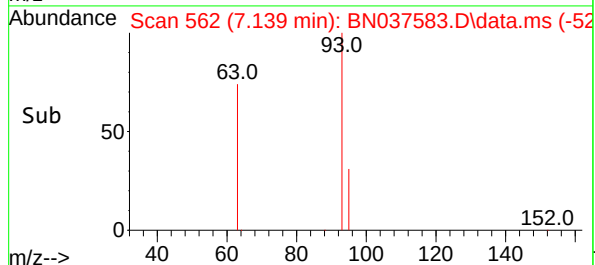
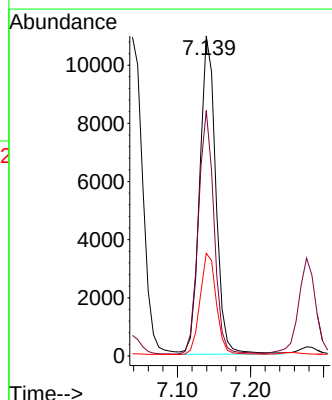
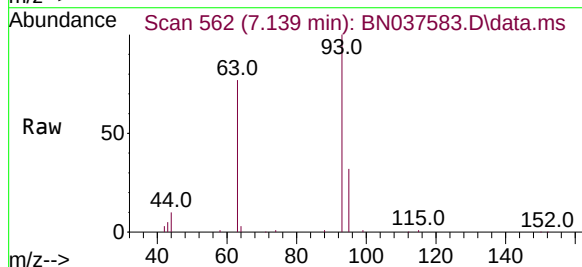
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

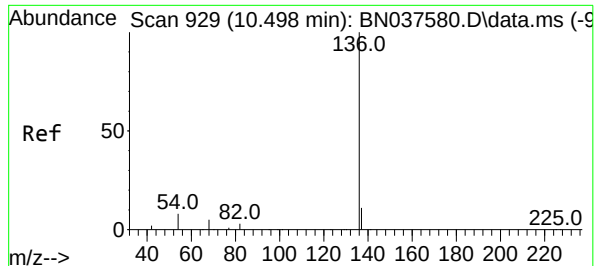
Tgt Ion: 99 Resp: 18546
Ion Ratio Lower Upper
99 100
42 22.2 18.5 27.7
71 36.1 28.6 42.8



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

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

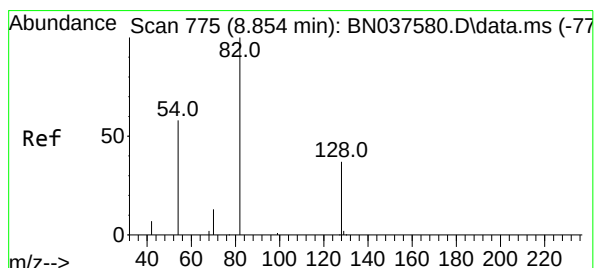
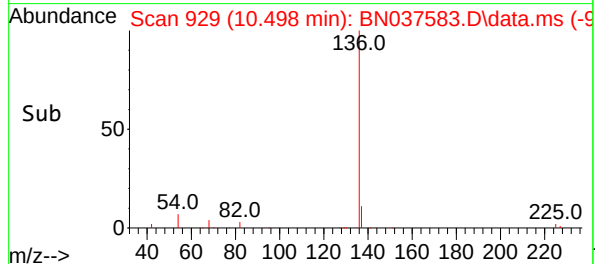
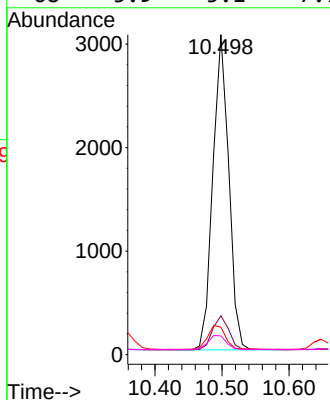
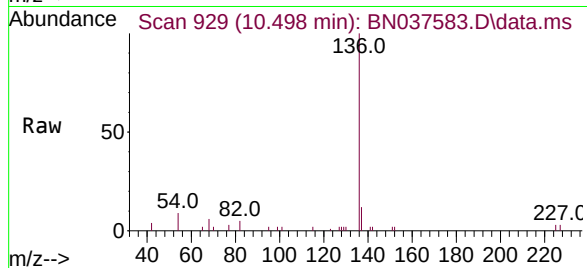




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

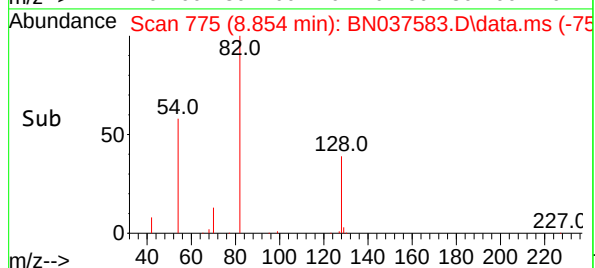
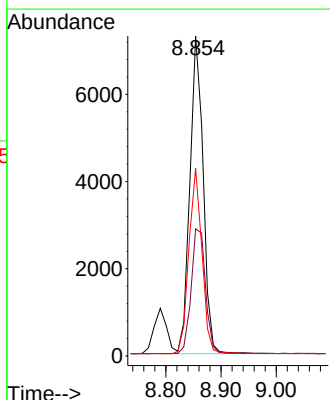
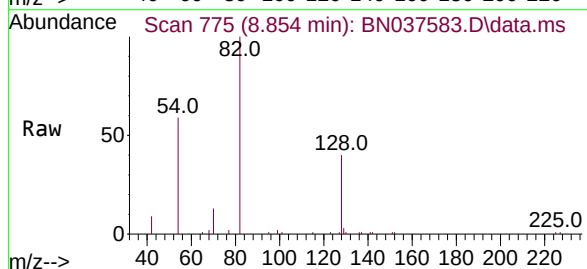
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

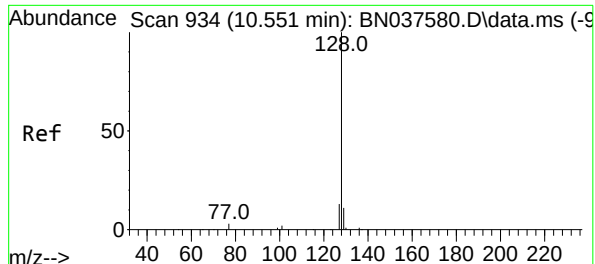
Tgt Ion:	136	Resp:	5019
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.5	14.3
54	8.6	7.3	10.9
68	5.9	5.1	7.7



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

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

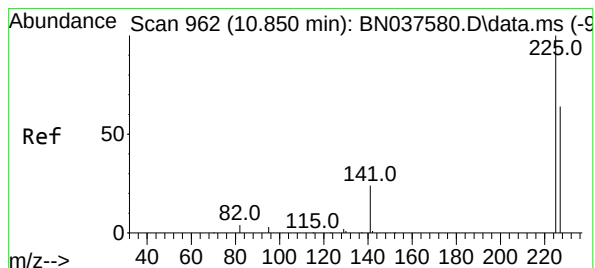
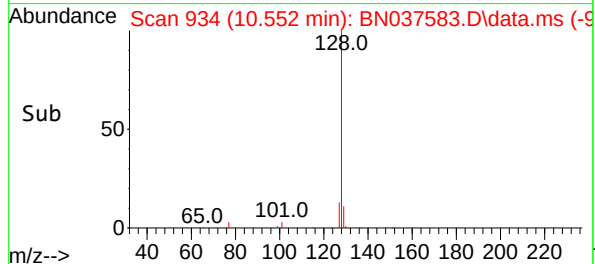
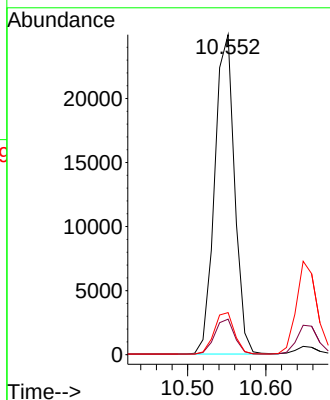
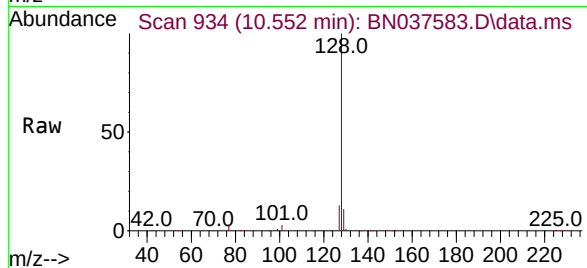




#9
Naphthalene
Concen: 3.292 ng
RT: 10.552 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

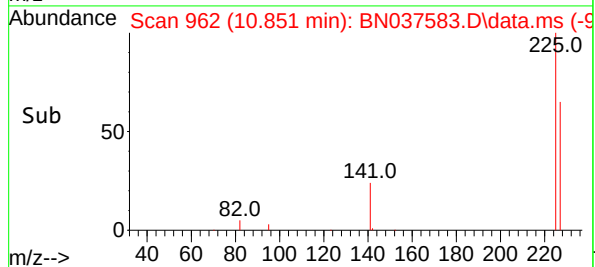
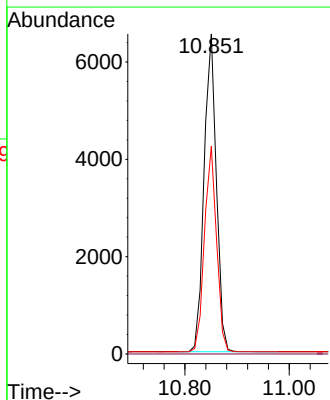
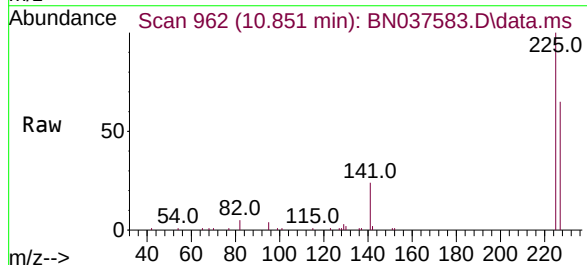
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

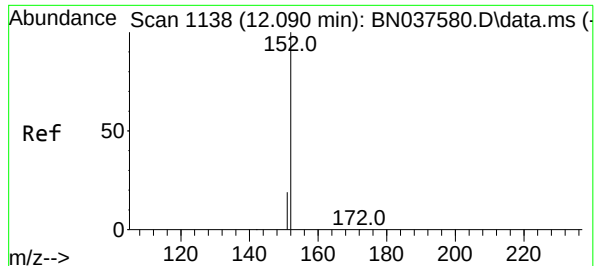
Tgt Ion	128	129	127
Resp:	43991		
Ion Ratio	100	11.1	13.2
Lower		9.8	11.5
Upper		14.6	17.3



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

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

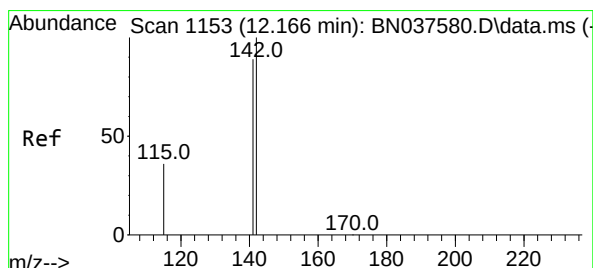
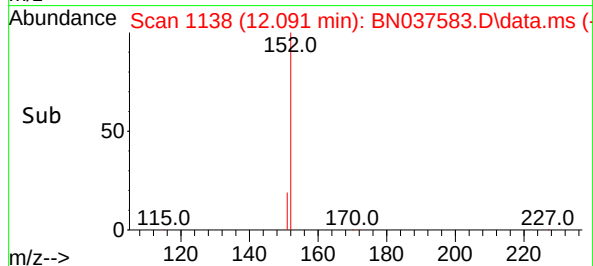
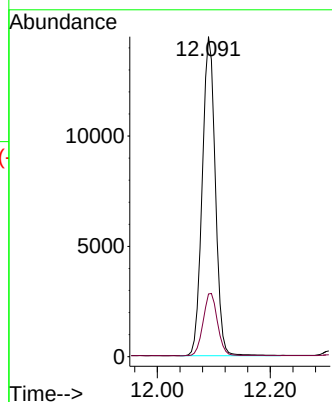
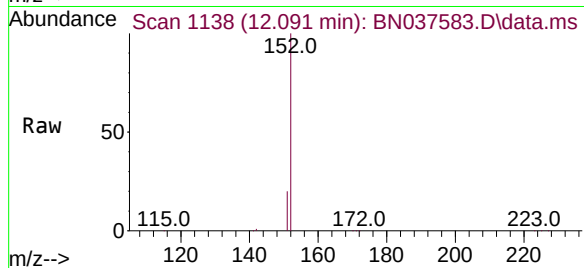




#11
2-Methylnaphthalene-d10
Concen: 3.402 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

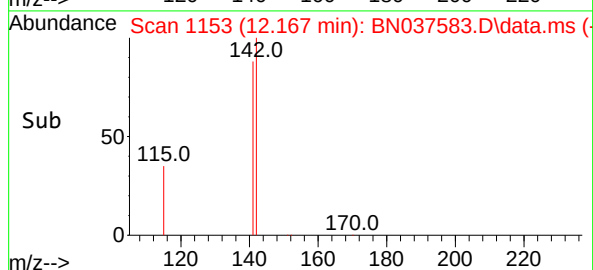
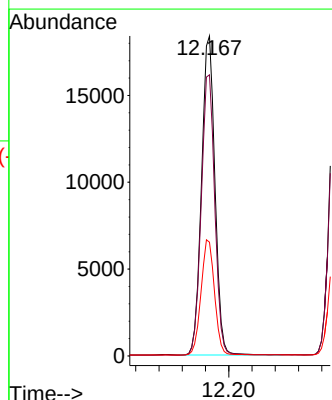
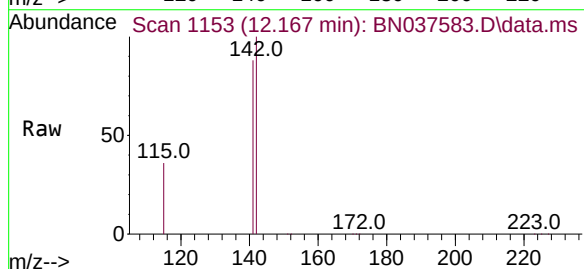
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

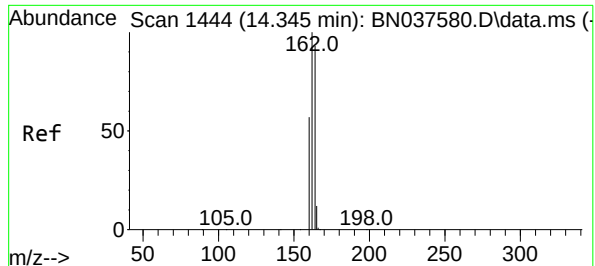
Tgt Ion:152 Resp: 23211
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 1444

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

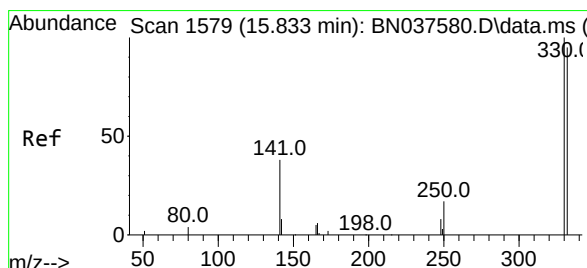
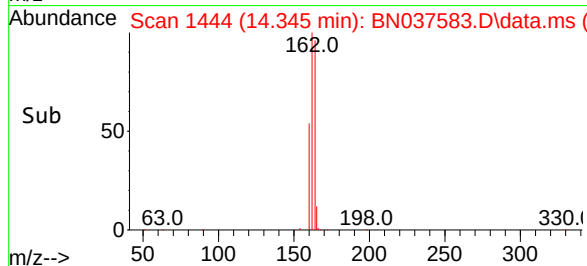
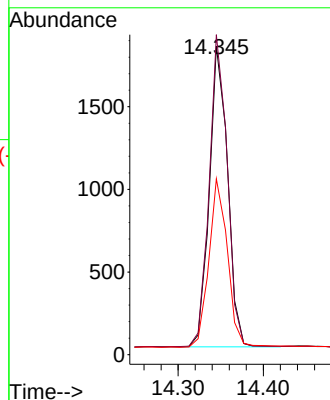
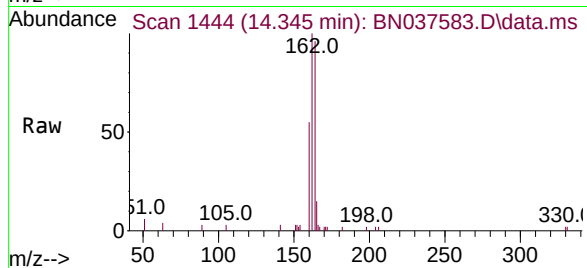
Tgt Ion:164 Resp: 2699

Ion Ratio Lower Upper

164 100

162 103.8 85.5 128.3

160 57.0 49.5 74.3



#14

2,4,6-Tribromophenol

Concen: 3.710 ng

RT: 15.833 min Scan# 1579

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

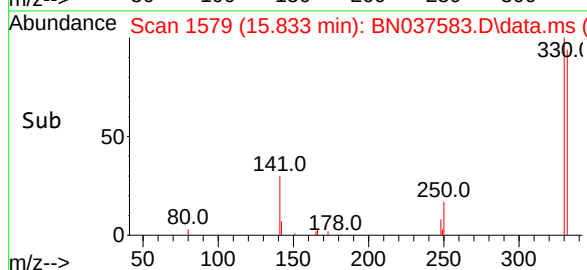
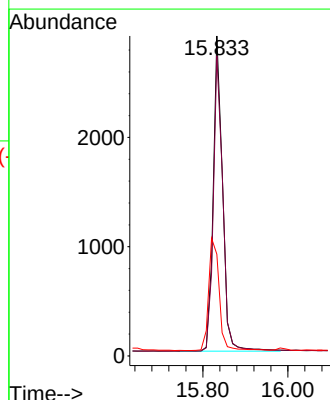
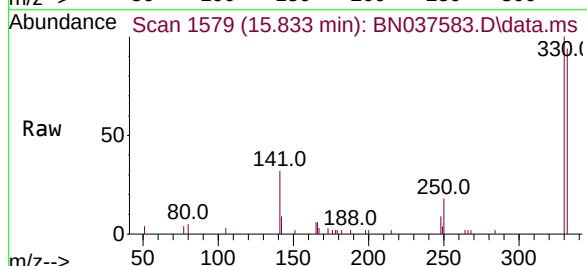
Tgt Ion:330 Resp: 4382

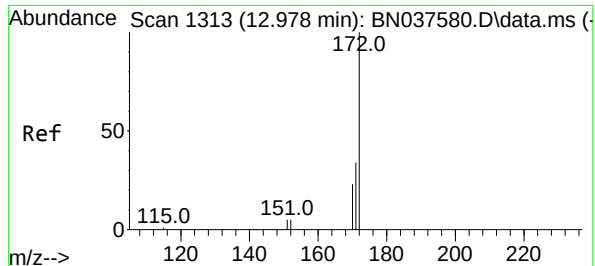
Ion Ratio Lower Upper

330 100

332 95.1 77.4 116.0

141 40.3 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 3.308 ng

RT: 12.973 min Scan# 1313

Delta R.T. -0.005 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

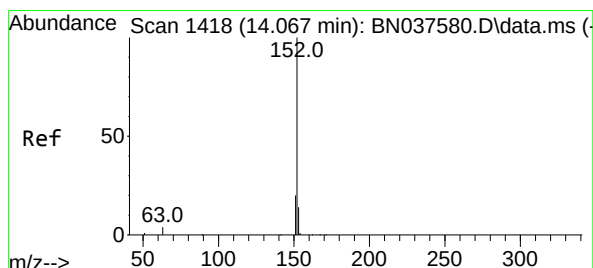
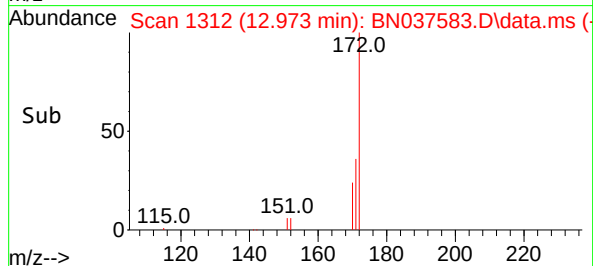
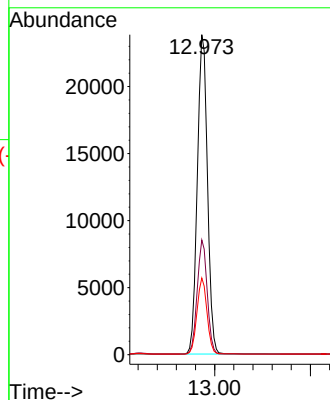
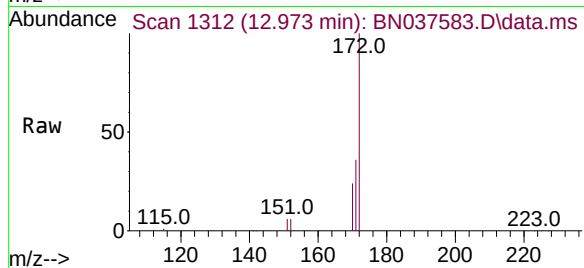
Tgt Ion:172 Resp: 51634

Ion Ratio Lower Upper

172 100

171 35.9 28.2 42.4

170 24.0 19.2 28.8



#16

Acenaphthylene

Concen: 3.316 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

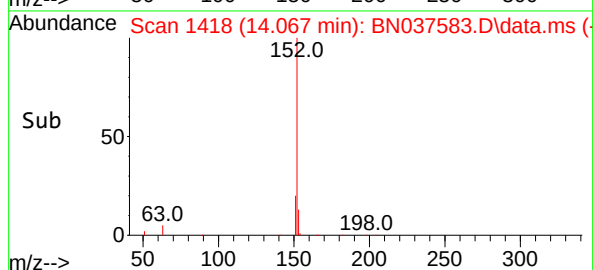
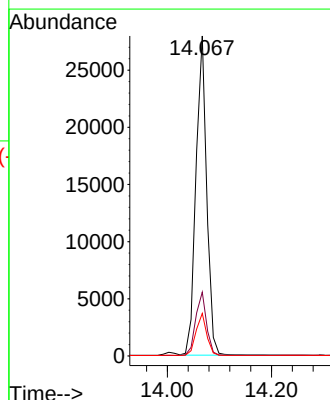
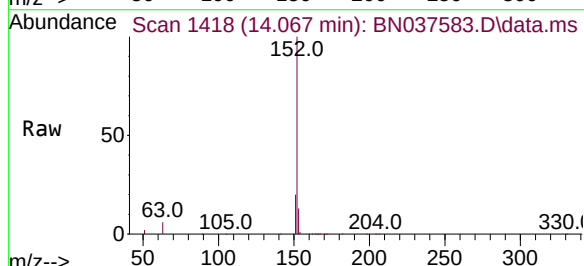
Tgt Ion:152 Resp: 40122

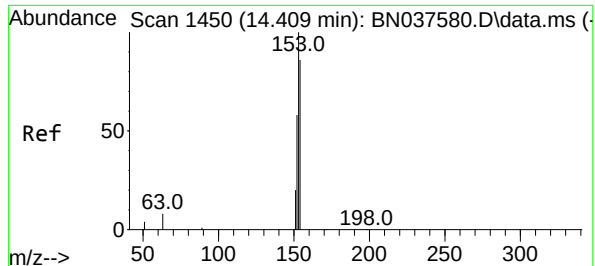
Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

153 13.0 10.7 16.1

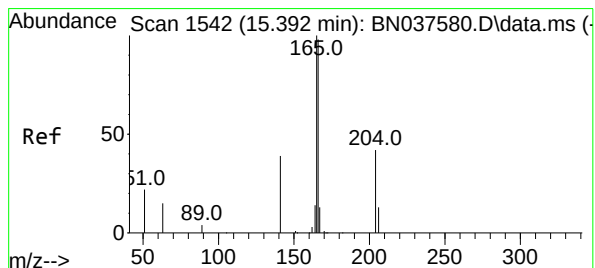
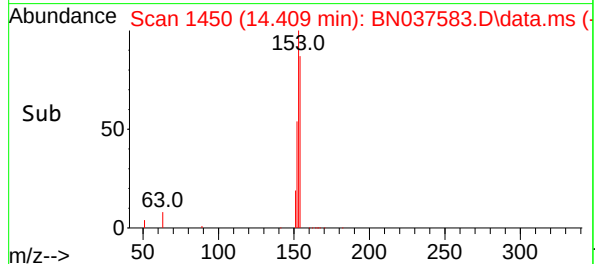
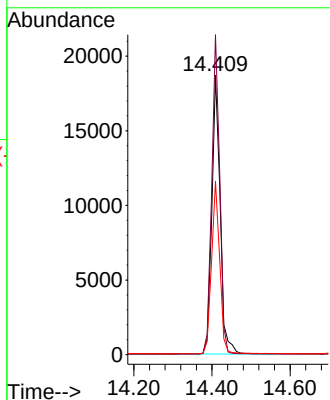
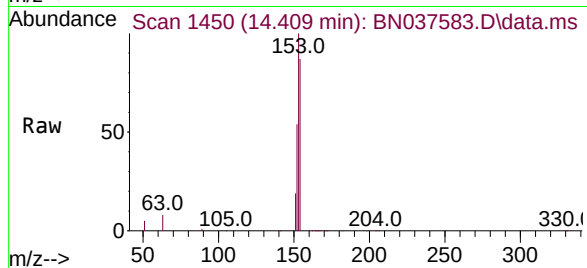




#17
Acenaphthene
Concen: 3.375 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

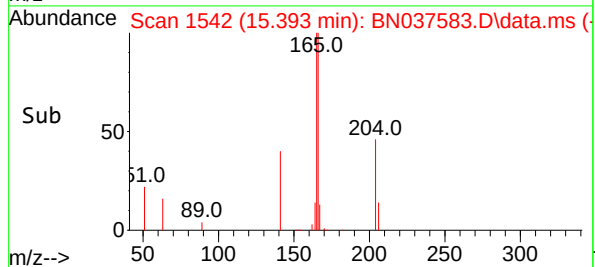
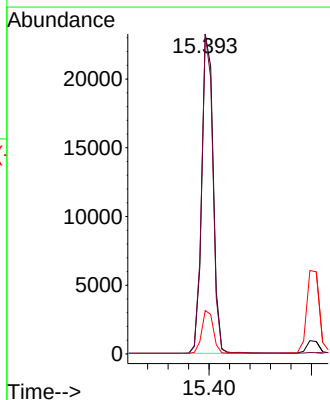
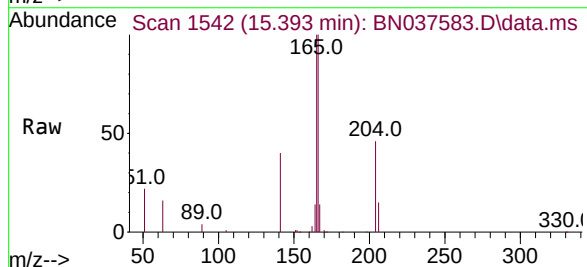
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

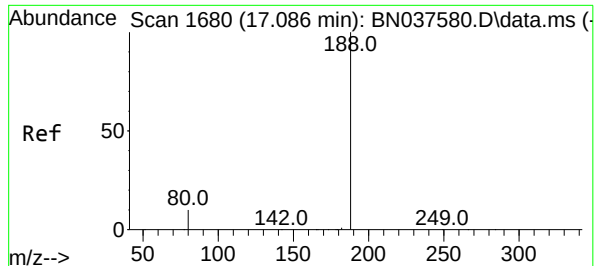
Tgt Ion:154 Resp: 27774
Ion Ratio Lower Upper
154 100
153 109.4 90.6 135.8
152 60.7 54.9 82.3



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

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

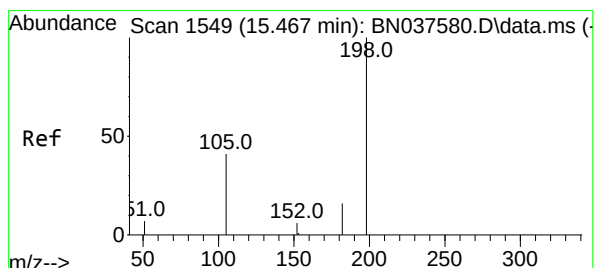
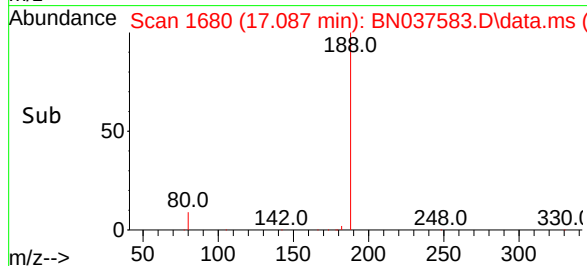
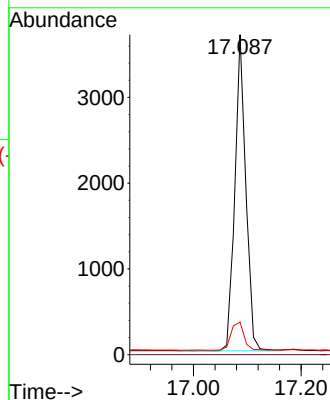
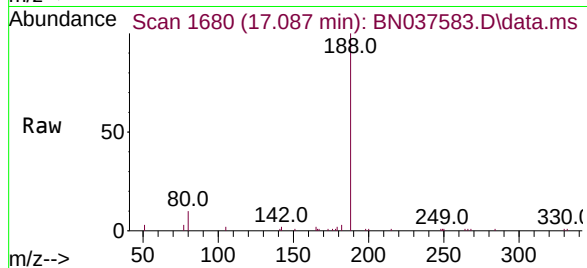
Tgt Ion:188 Resp: 5200

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 3.257 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

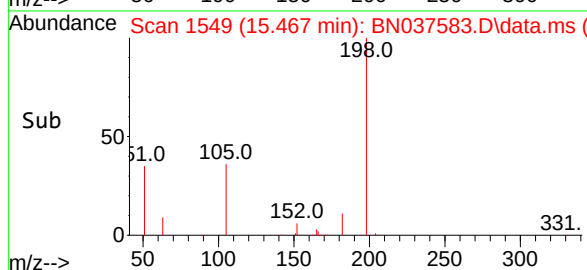
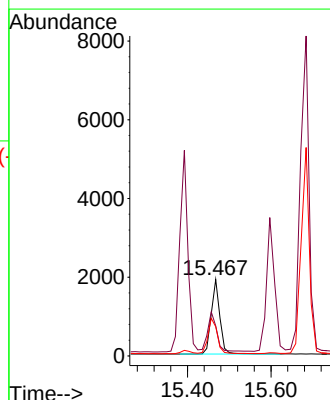
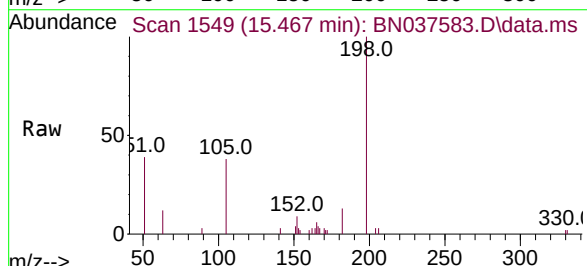
Tgt Ion:198 Resp: 2906

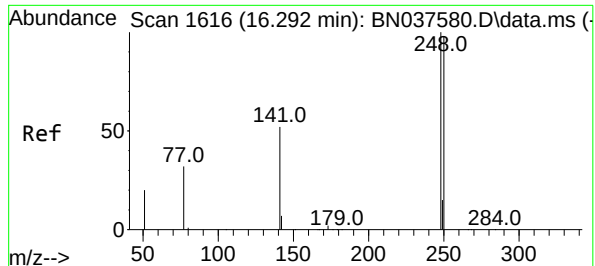
Ion Ratio Lower Upper

198 100

51 39.4 81.0 121.6#

105 38.3 52.5 78.7#





#21

4-Bromophenyl-phenylether

Concen: 3.444 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

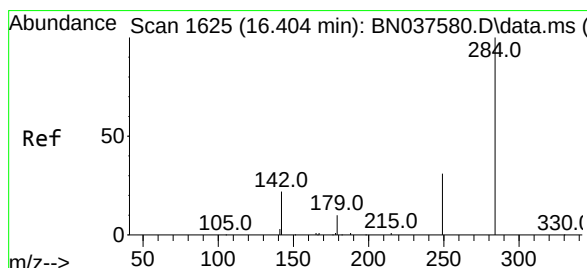
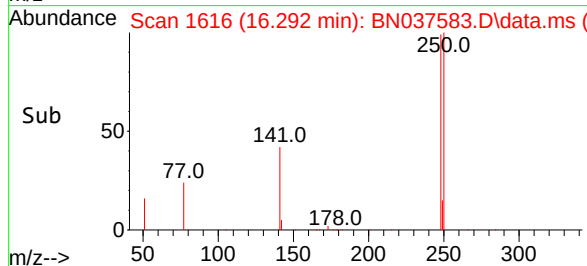
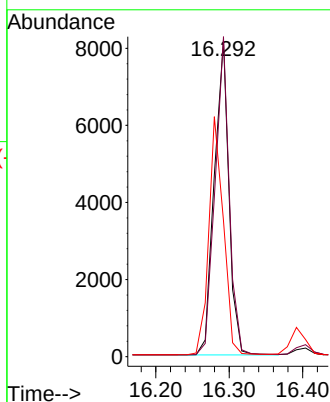
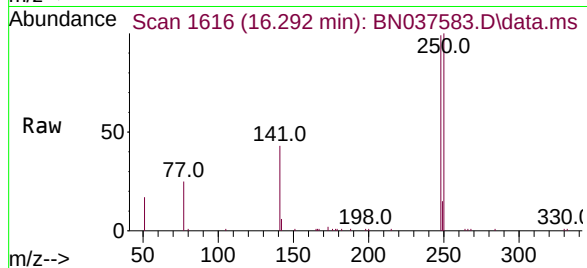
Tgt Ion:248 Resp: 11254

Ion Ratio Lower Upper

248 100

250 101.0 78.6 118.0

141 42.9 43.7 65.5#



#22

Hexachlorobenzene

Concen: 3.183 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

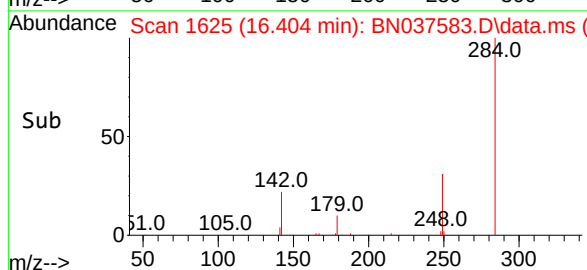
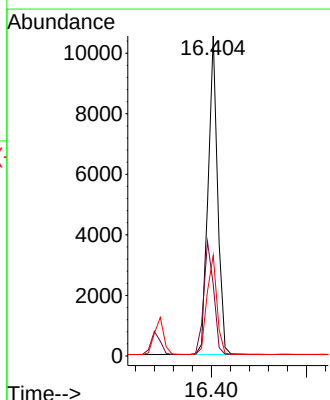
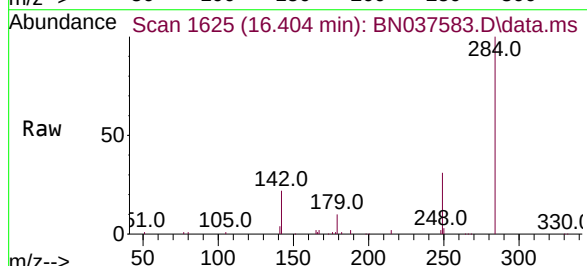
Tgt Ion:284 Resp: 14747

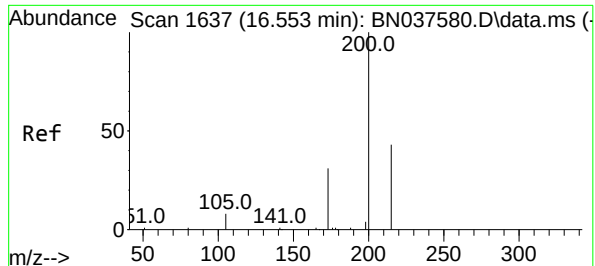
Ion Ratio Lower Upper

284 100

142 37.0 29.8 44.6

249 32.6 26.0 39.0





#23

Atrazine

Concen: 3.967 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

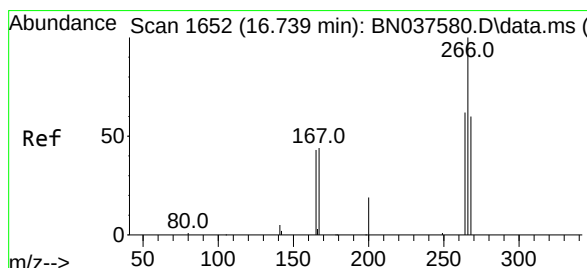
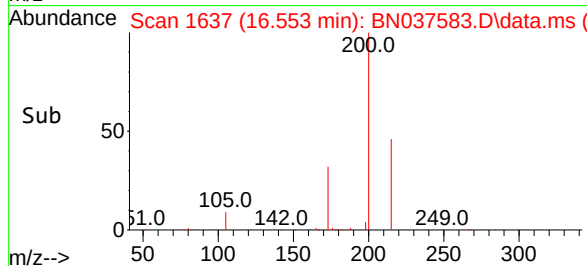
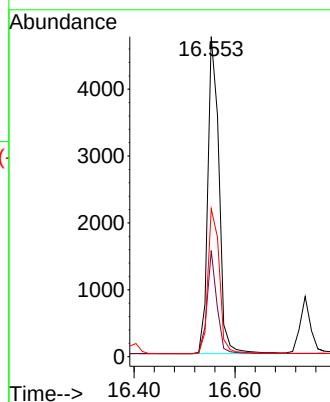
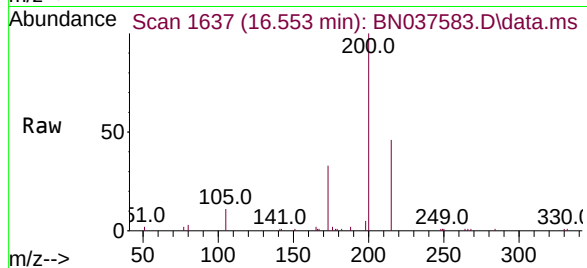
Tgt Ion:200 Resp: 7330

Ion Ratio Lower Upper

200 100

173 33.1 31.0 46.4

215 46.2 39.4 59.0



#24

Pentachlorophenol

Concen: 3.887 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

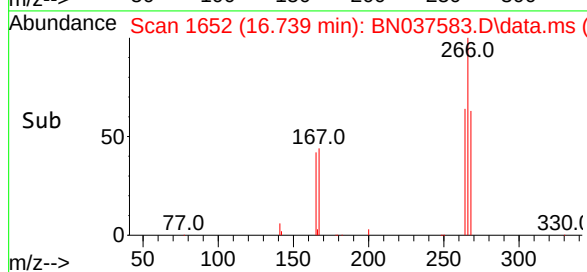
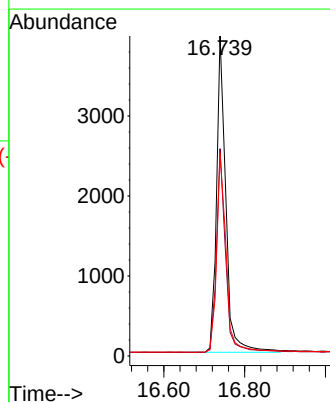
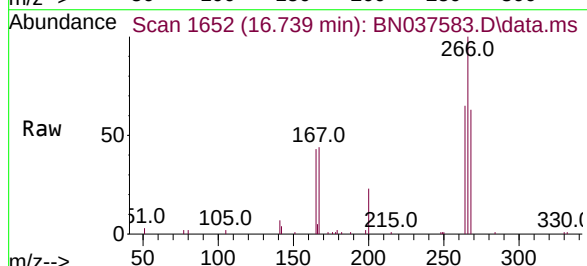
Tgt Ion:266 Resp: 6325

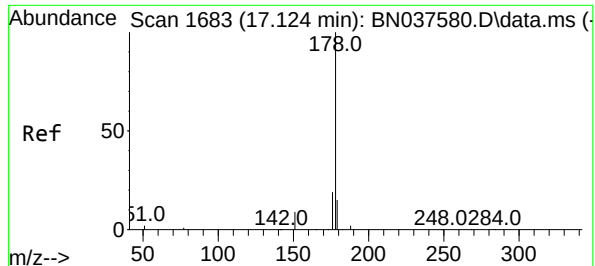
Ion Ratio Lower Upper

266 100

264 63.4 49.6 74.4

268 64.3 49.2 73.8





#25

Phenanthrene

Concen: 3.339 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

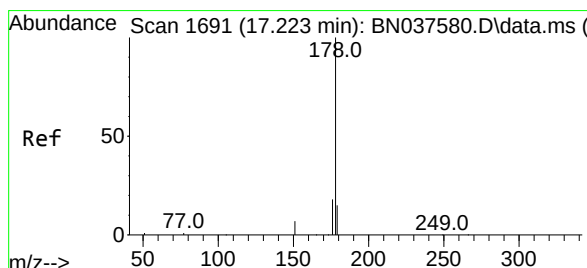
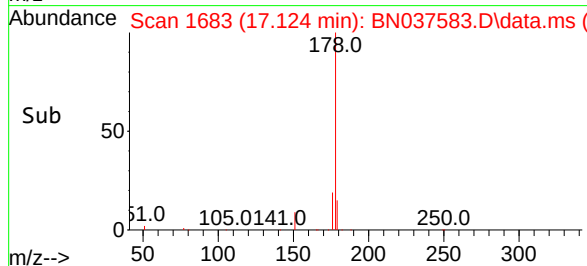
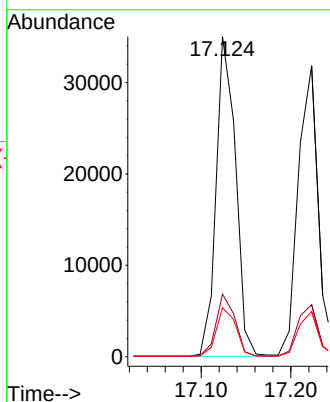
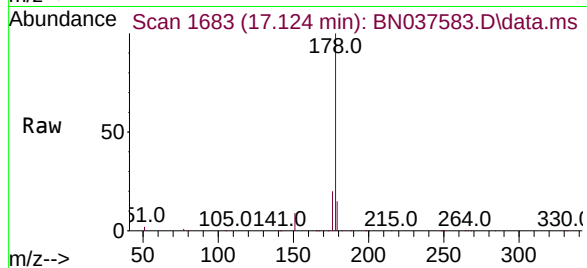
Tgt Ion:178 Resp: 52784

Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.6

179 15.3 12.3 18.5



#26

Anthracene

Concen: 3.525 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

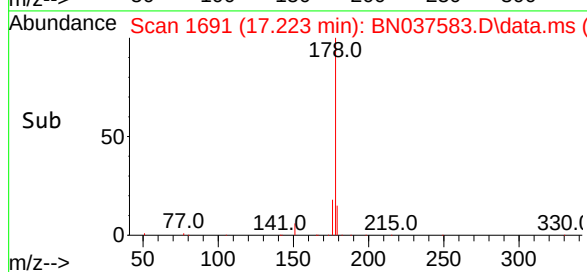
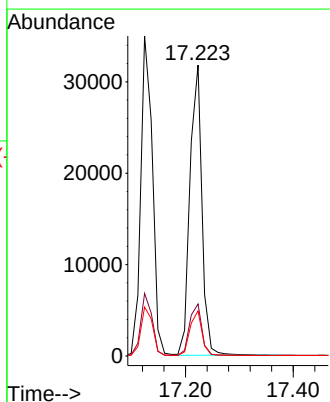
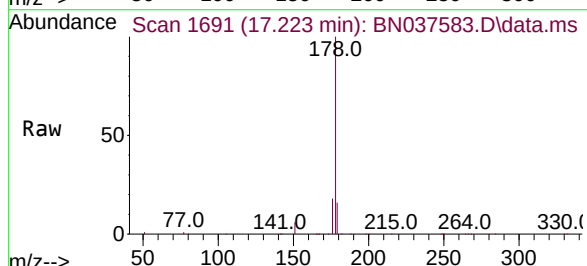
Tgt Ion:178 Resp: 49333

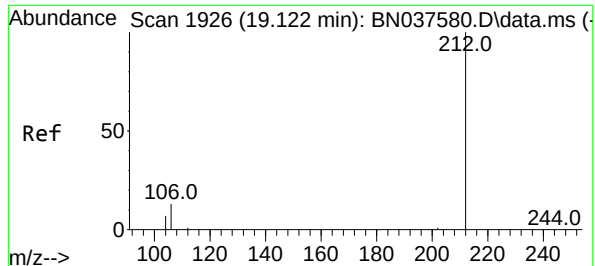
Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.376 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

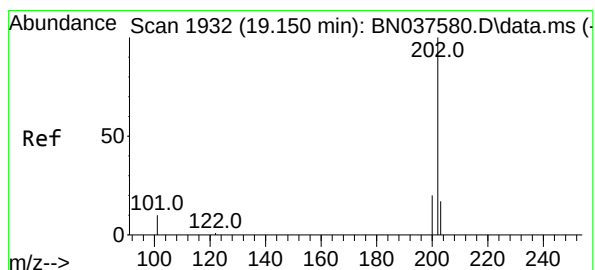
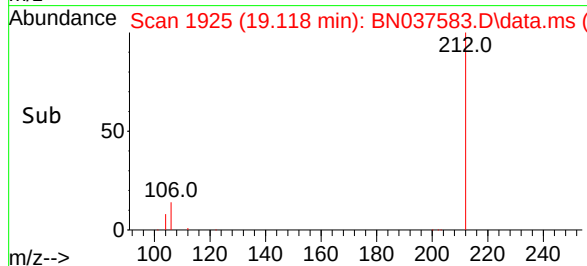
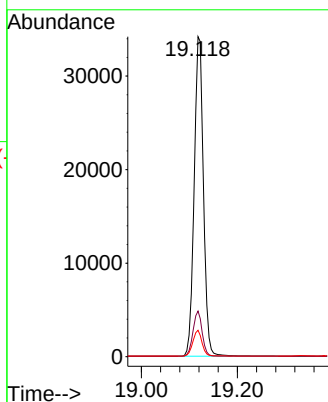
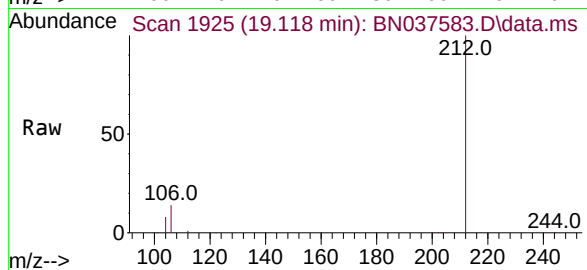
Tgt Ion:212 Resp: 46178

Ion Ratio Lower Upper

212 100

106 13.9 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 3.511 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

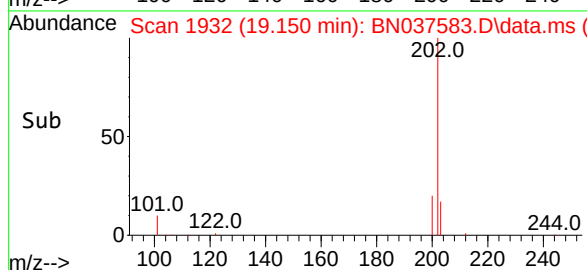
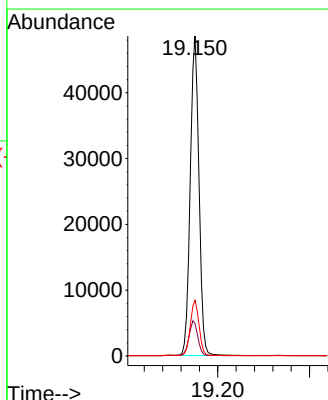
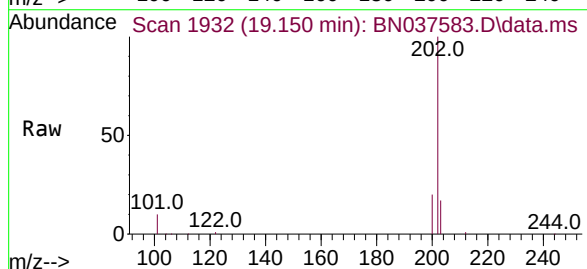
Tgt Ion:202 Resp: 63765

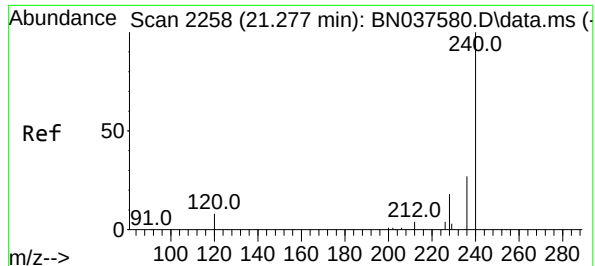
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

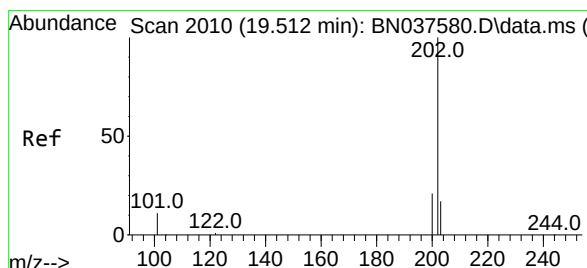
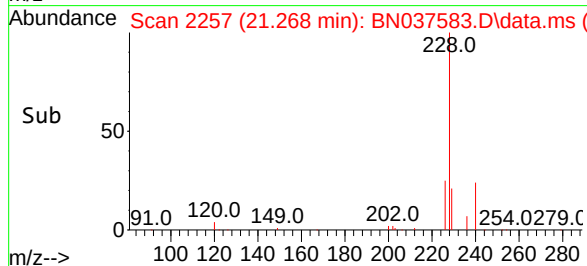
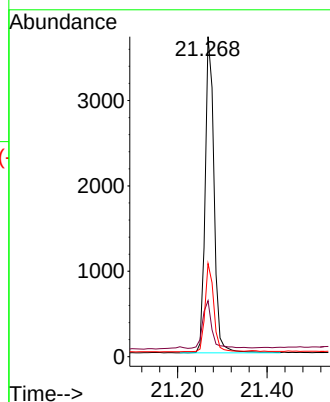
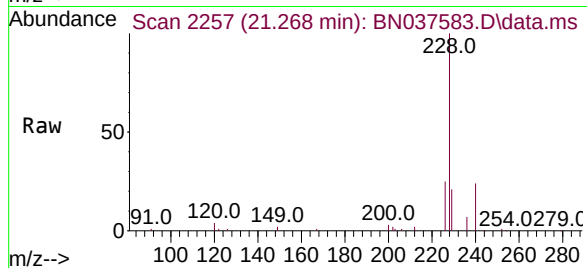
Tgt Ion:240 Resp: 5116

Ion Ratio Lower Upper

240 100

120 17.5 8.9 13.3#

236 29.1 22.6 33.8



#30

Pyrene

Concen: 3.254 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

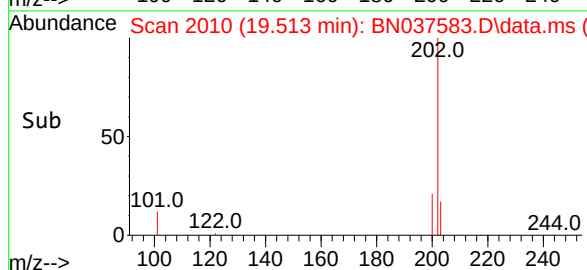
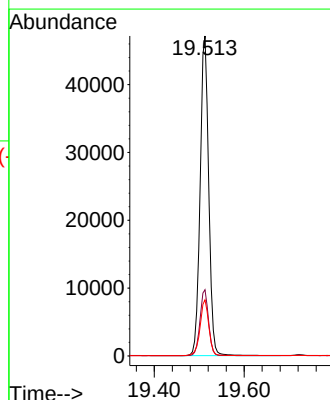
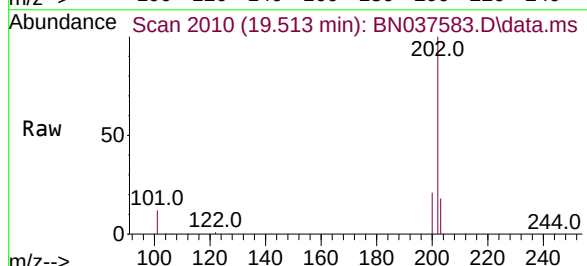
Tgt Ion:202 Resp: 62227

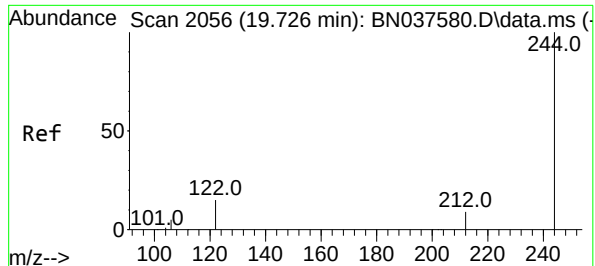
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.8 14.3 21.5

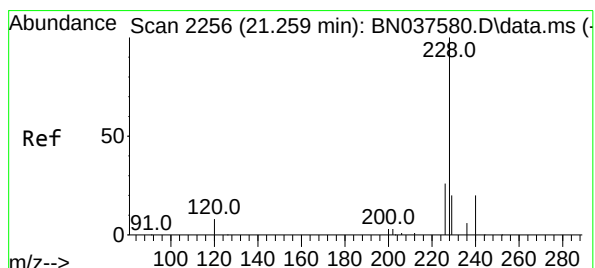
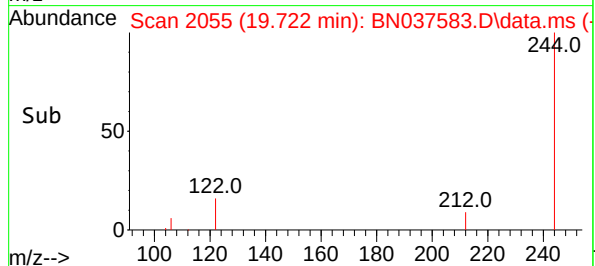
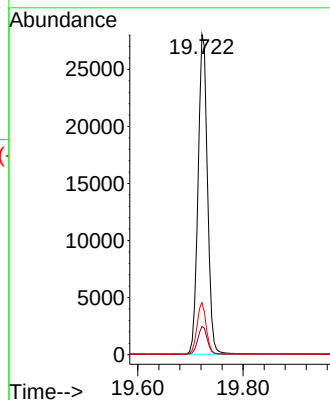
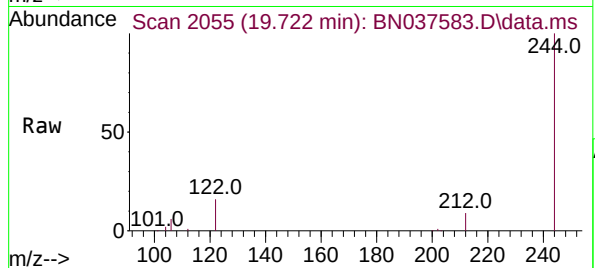




#31
Terphenyl-d14
Concen: 3.315 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037583.D
Acq: 12 Aug 2025 19:29

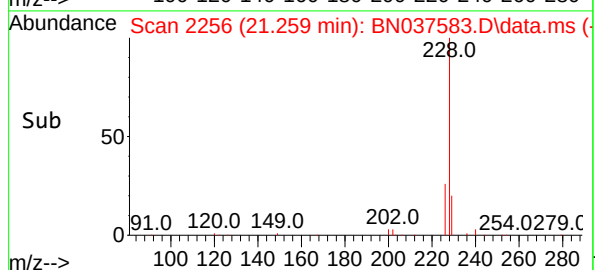
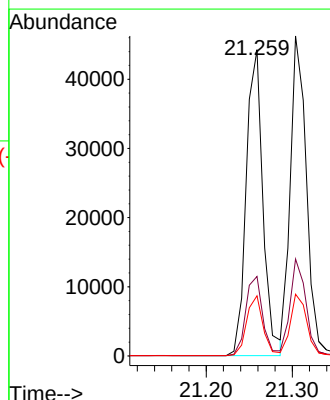
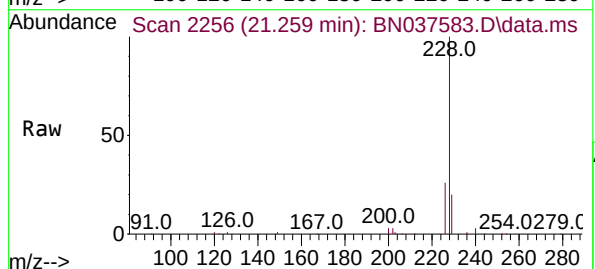
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

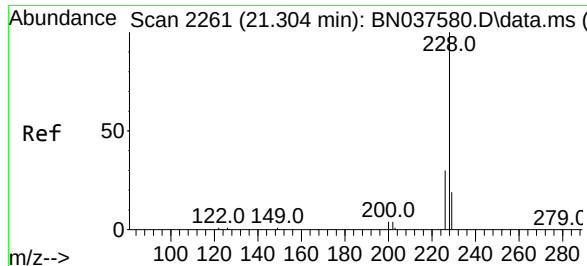
Tgt Ion:244 Resp: 34892
Ion Ratio Lower Upper
244 100
212 8.8 8.2 12.2
122 16.2 13.2 19.8



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

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





#33

Chrysene

Concen: 3.199 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

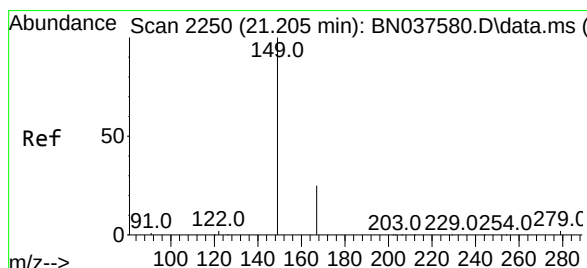
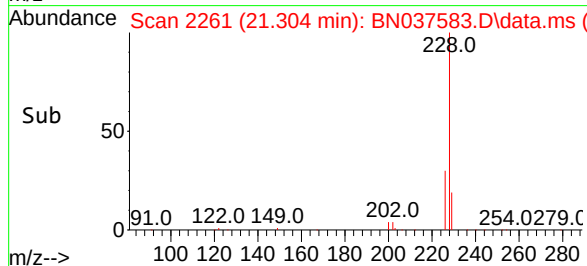
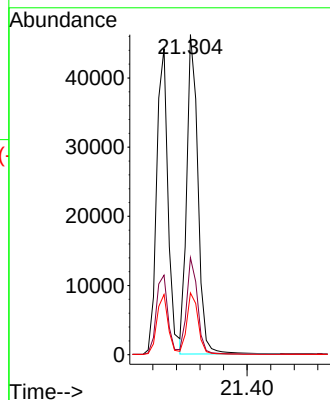
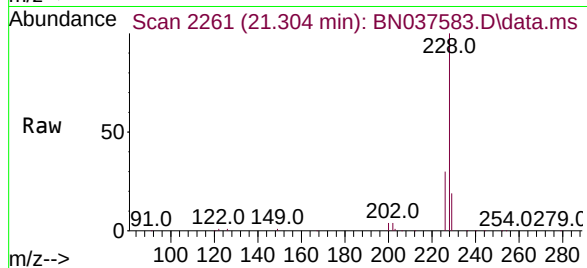
Tgt Ion:228 Resp: 60925

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.440 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

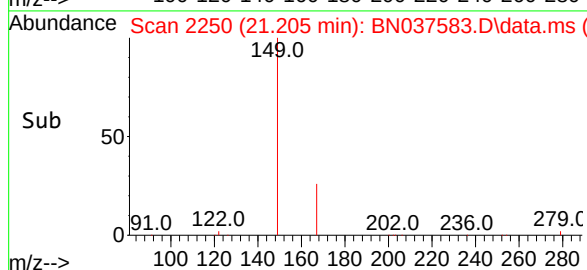
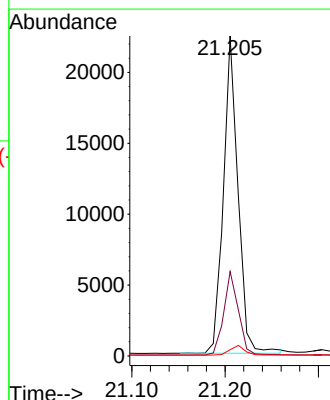
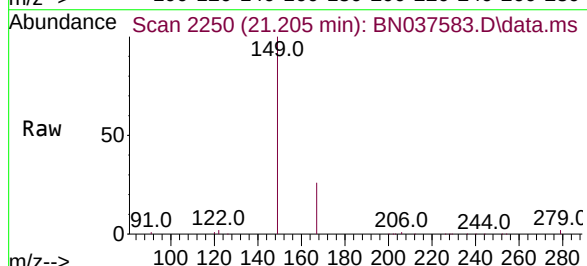
Tgt Ion:149 Resp: 24265

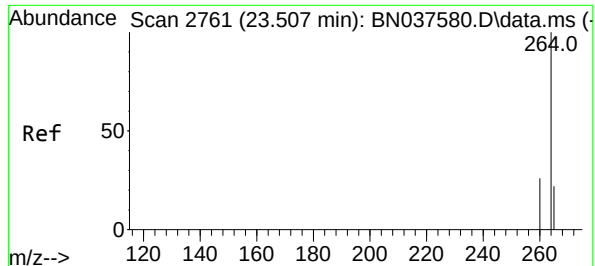
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

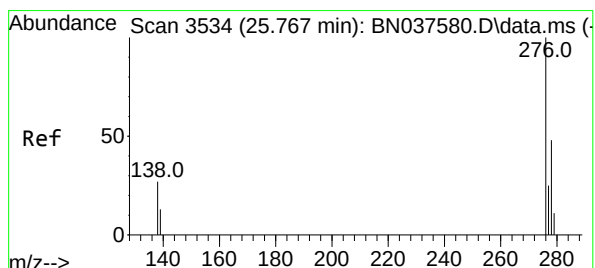
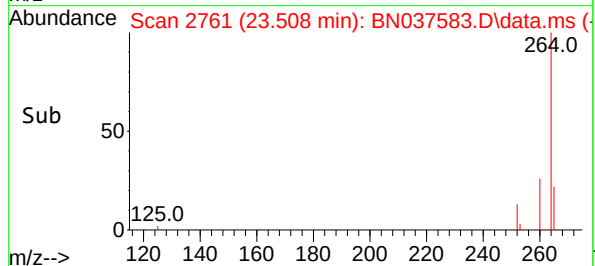
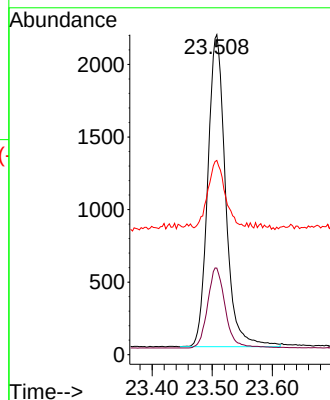
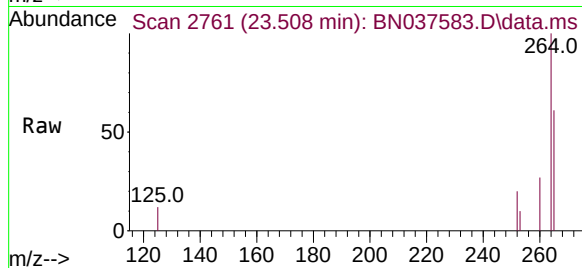
Tgt Ion:264 Resp: 4411

Ion Ratio Lower Upper

264 100

260 27.1 21.6 32.4

265 60.7 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.576 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

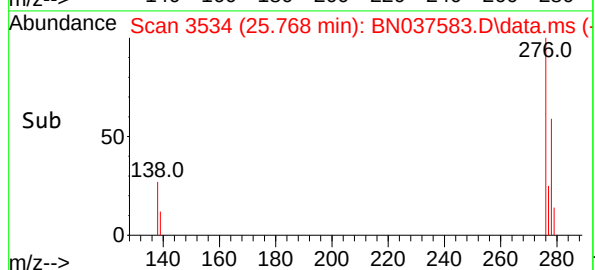
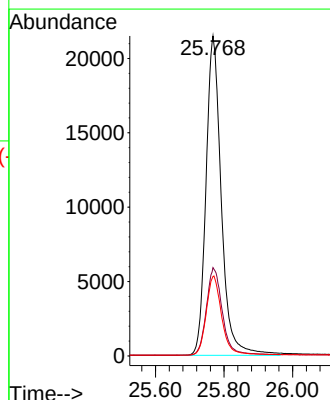
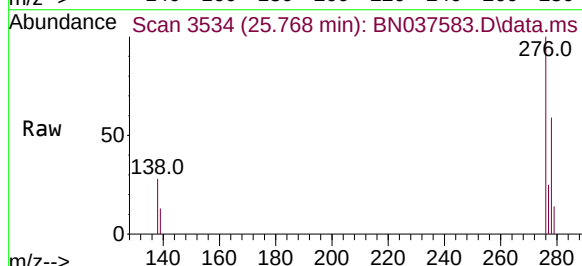
Tgt Ion:276 Resp: 66459

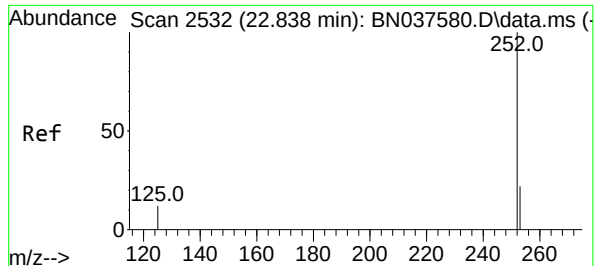
Ion Ratio Lower Upper

276 100

138 28.5 23.3 34.9

277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.535 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

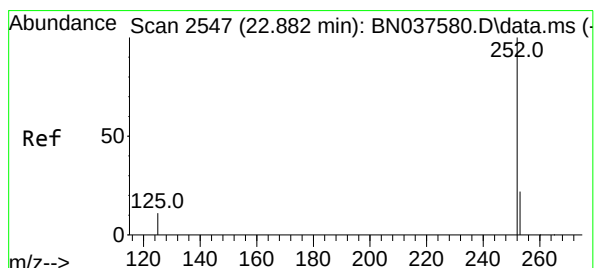
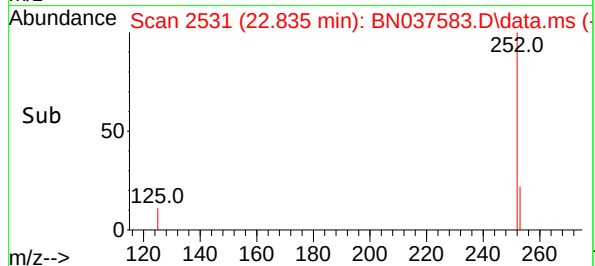
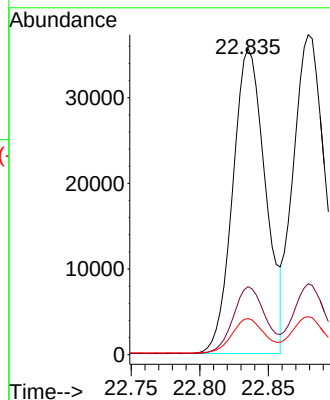
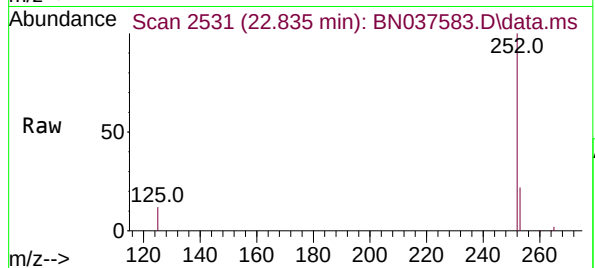
Tgt Ion:252 Resp: 59086

Ion Ratio Lower Upper

252 100

253 22.2 20.0 30.0

125 11.8 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 3.363 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

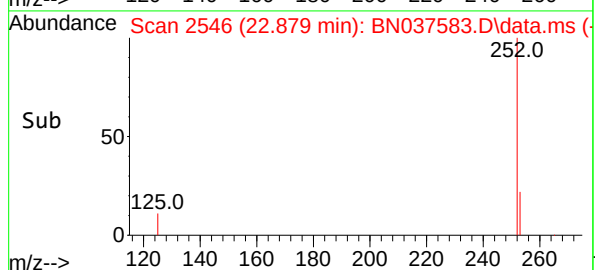
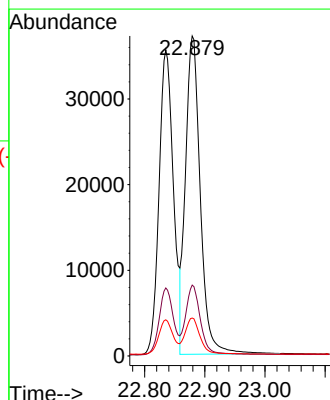
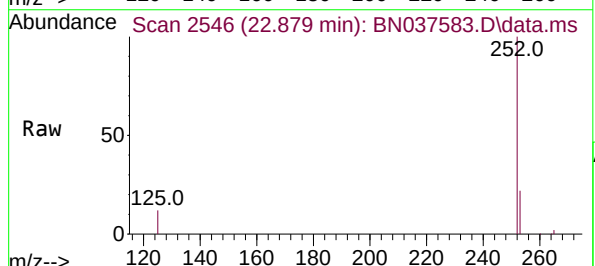
Tgt Ion:252 Resp: 63422

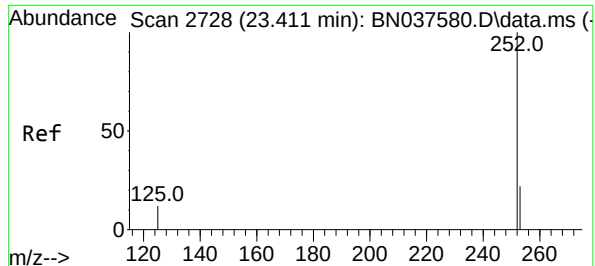
Ion Ratio Lower Upper

252 100

253 22.2 19.9 29.9

125 11.8 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 3.518 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

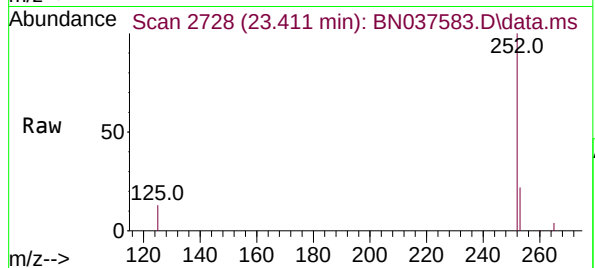
Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



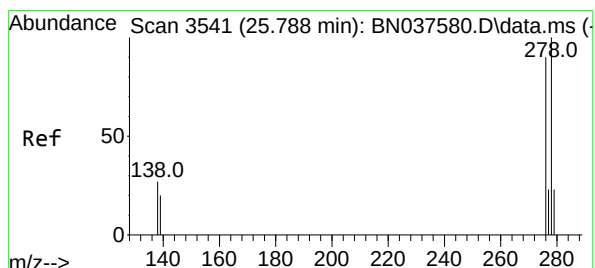
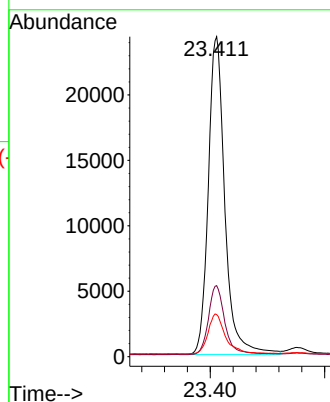
Tgt Ion:252 Resp: 48767

Ion Ratio Lower Upper

252 100

253 22.2 21.6 32.4

125 13.1 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 3.709 ng

RT: 25.782 min Scan# 3539

Delta R.T. -0.006 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

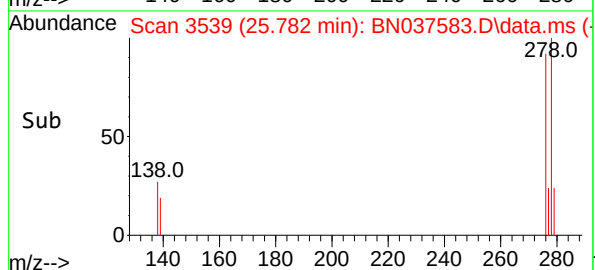
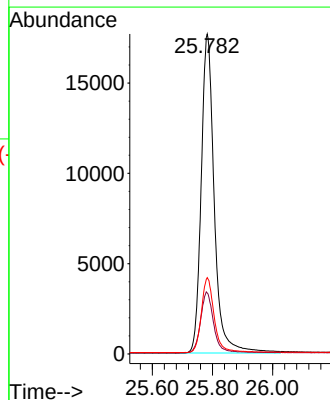
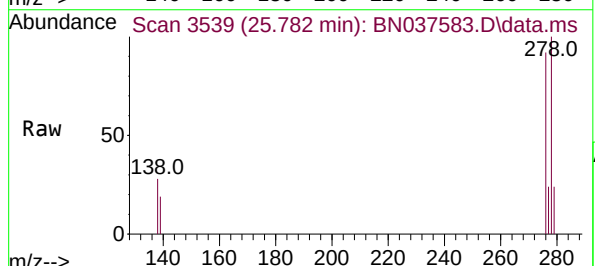
Tgt Ion:278 Resp: 53486

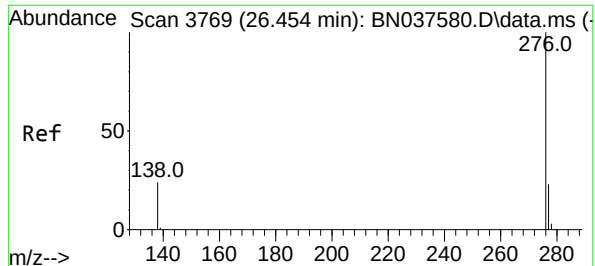
Ion Ratio Lower Upper

278 100

139 19.0 18.3 27.5

279 23.9 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 3.558 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037583.D

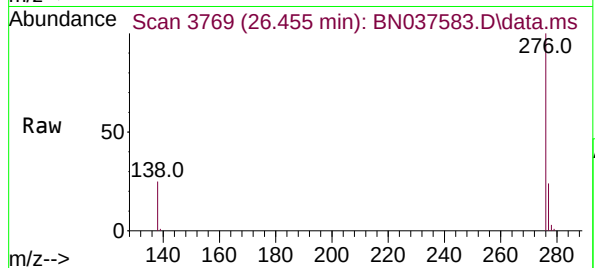
Acq: 12 Aug 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



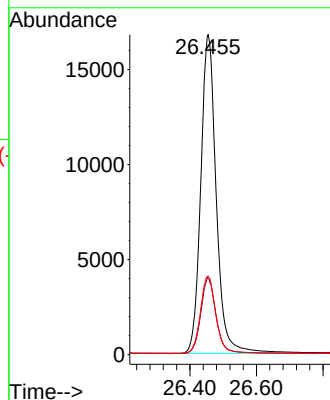
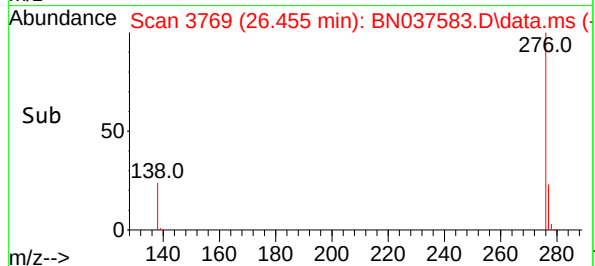
Tgt Ion:276 Resp: 54068

Ion Ratio Lower Upper

276 100

277 23.7 21.0 31.4

138 24.6 21.7 32.5



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

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

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

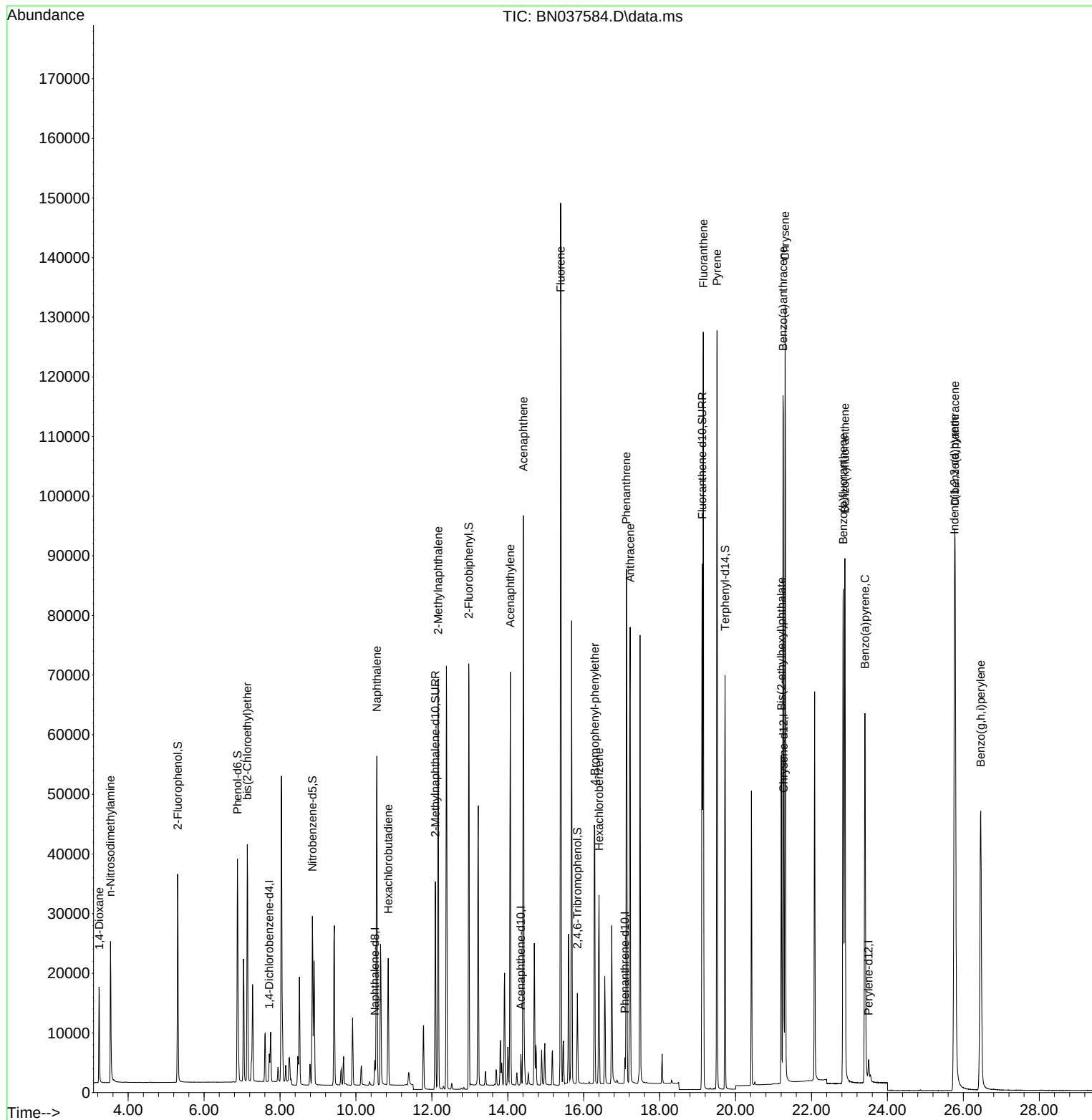
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	2149	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	5152	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2803	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5318	0.400	ng	0.00
29) Chrysene-d12	21.268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

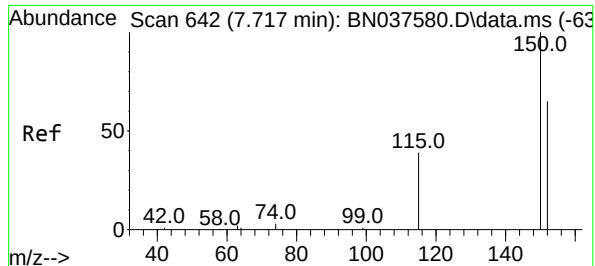
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

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

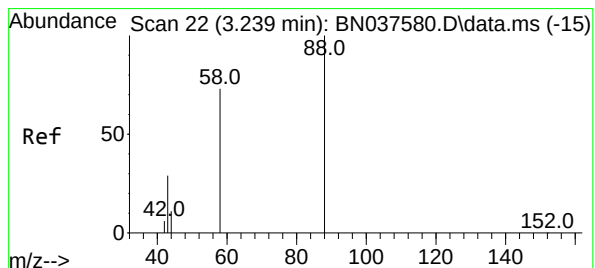
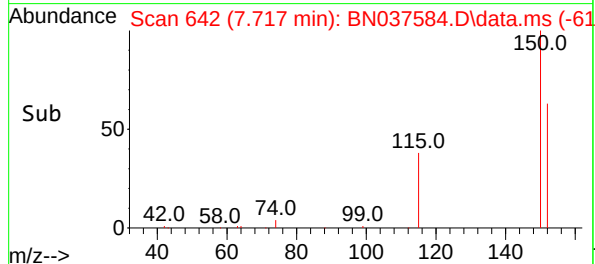
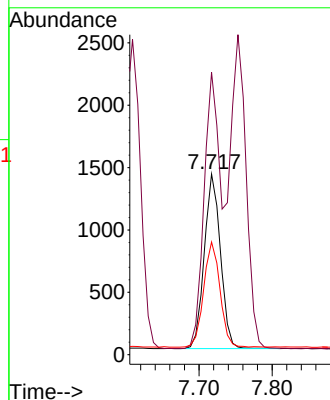
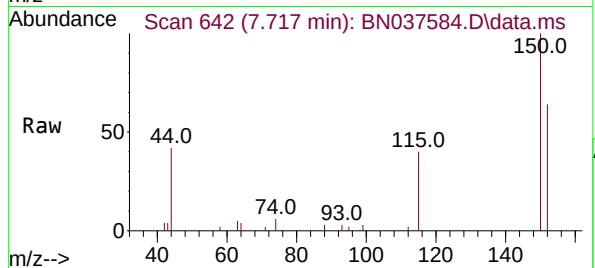




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

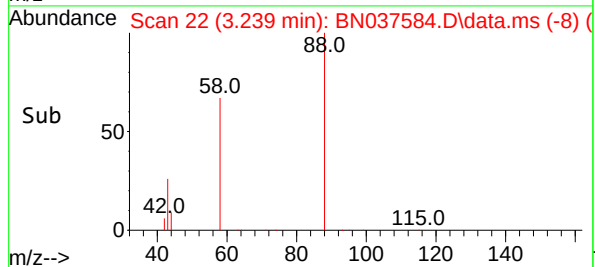
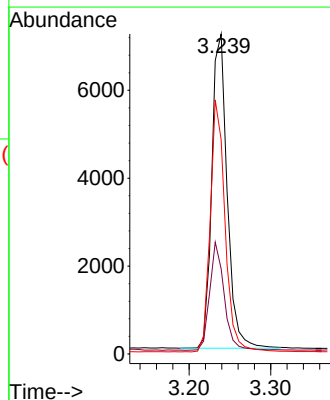
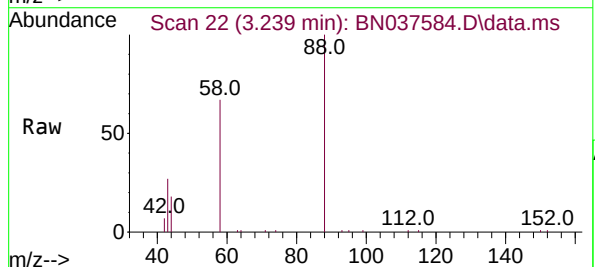
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

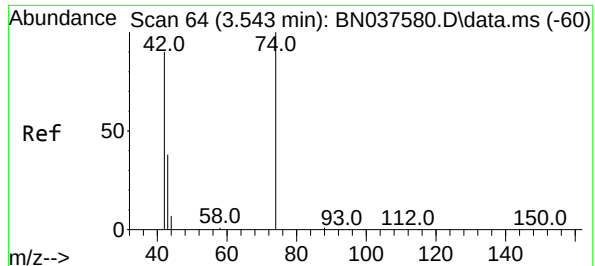
Tgt Ion:152 Resp: 2149
Ion Ratio Lower Upper
152 100
150 156.4 122.2 183.4
115 62.4 49.8 74.6



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

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

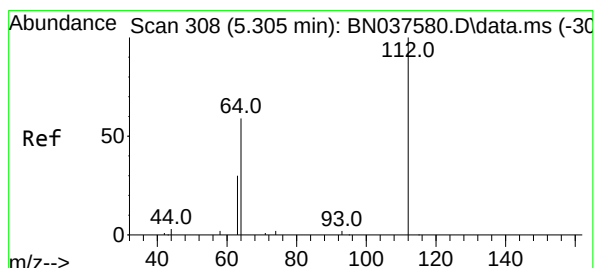
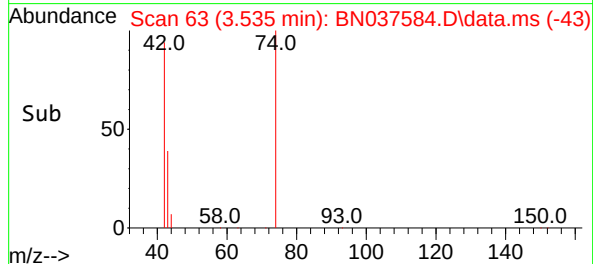
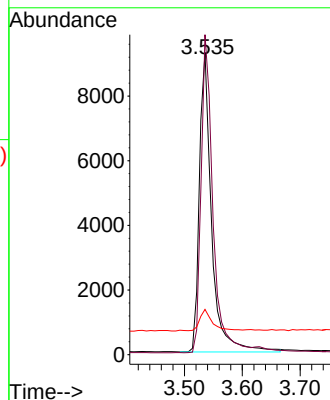
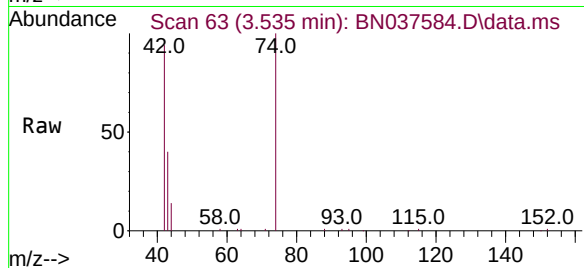




#3
n-Nitrosodimethylamine
Concen: 5.192 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

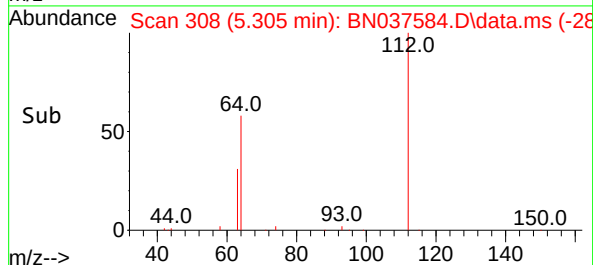
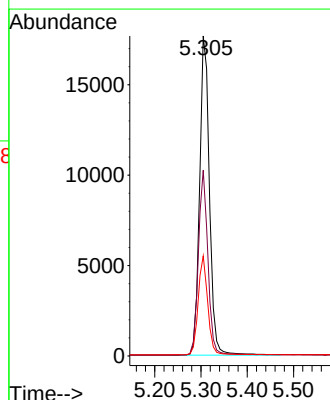
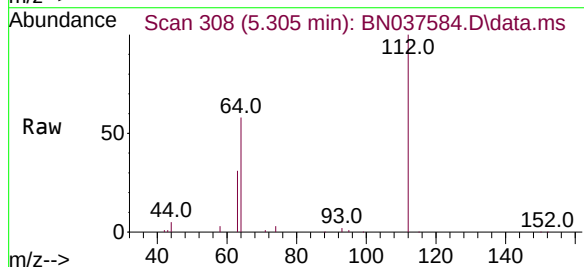
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

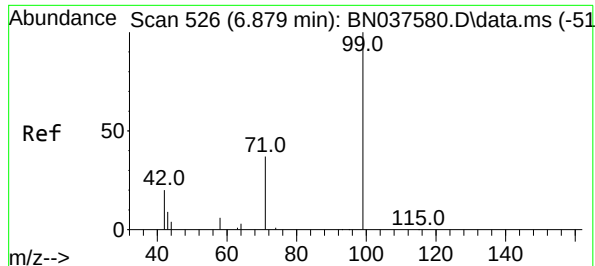
Tgt Ion: 42 Resp: 13640
Ion Ratio Lower Upper
42 100
74 102.7 82.0 123.0
44 7.6 7.9 11.9#



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

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

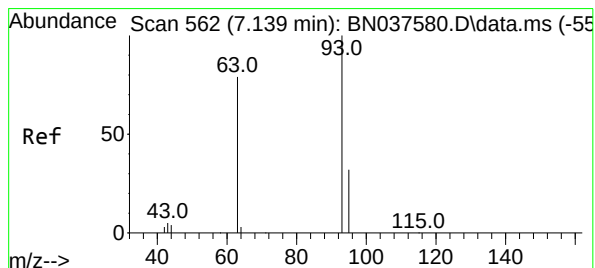
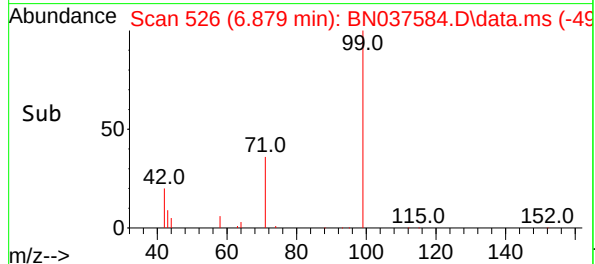
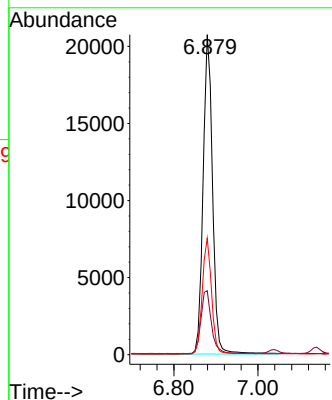
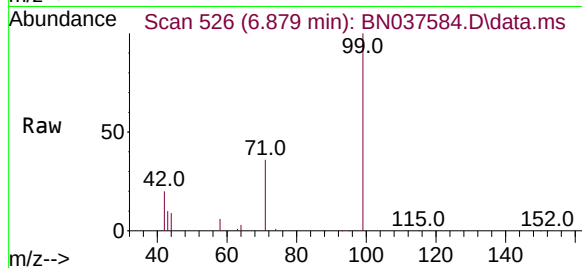




#5
Phenol-d6
Concen: 5.504 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

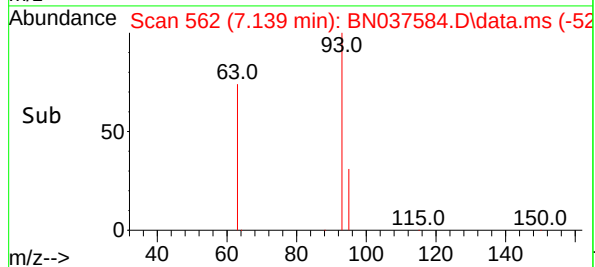
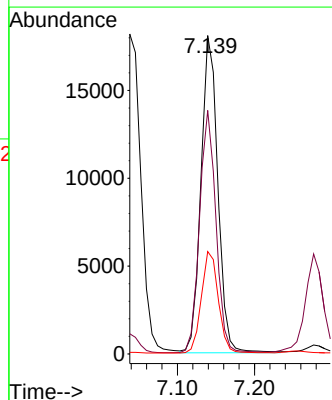
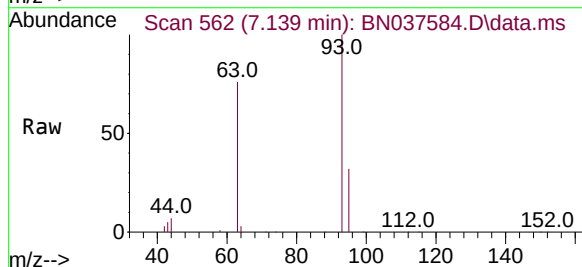
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

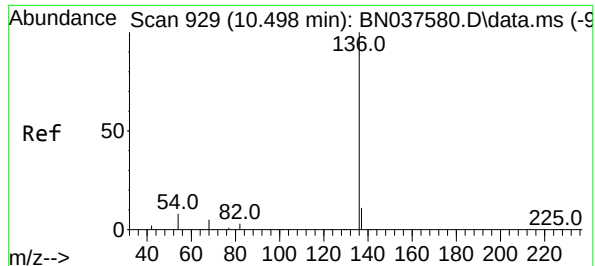
Tgt Ion:	99	Resp:	32269
Ion	Ratio	Lower	Upper
99	100		
42	21.8	18.5	27.7
71	35.9	28.6	42.8



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

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

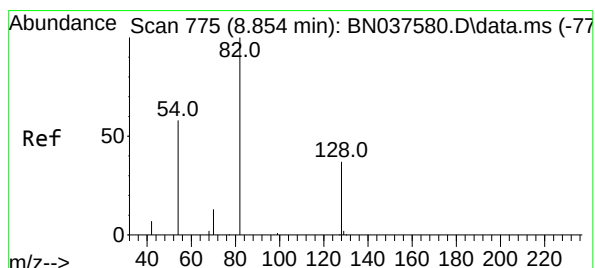
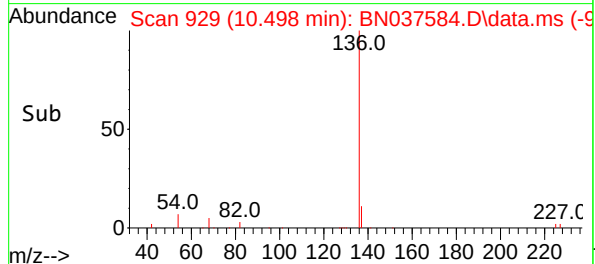
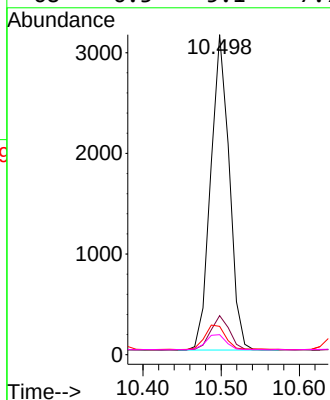
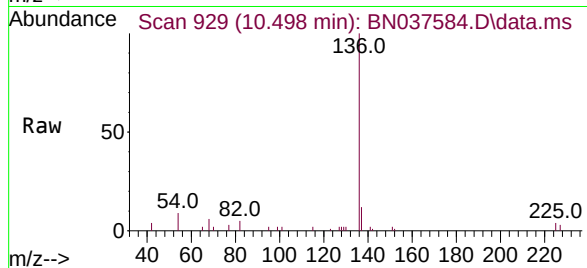




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

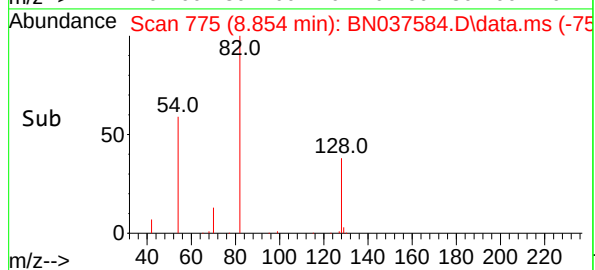
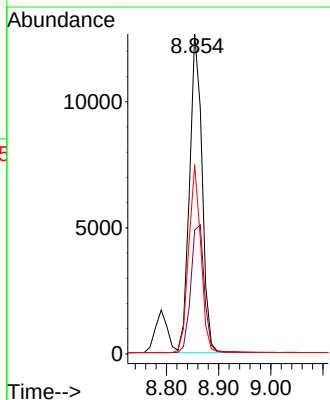
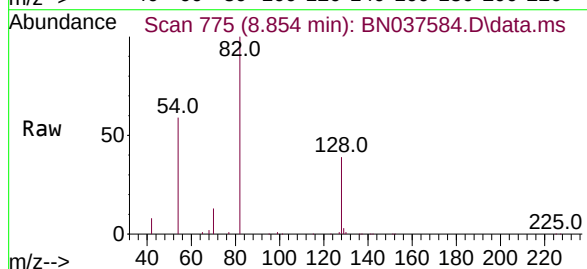
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

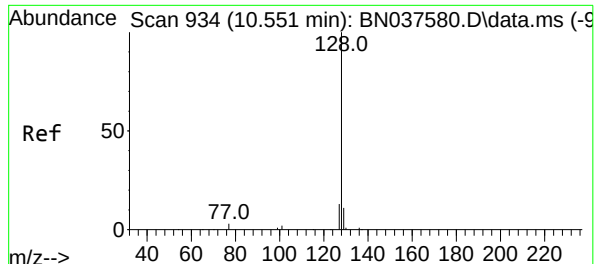
Tgt Ion:	136	Resp:	5152
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	8.9	7.3	10.9
68	6.3	5.1	7.7



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

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

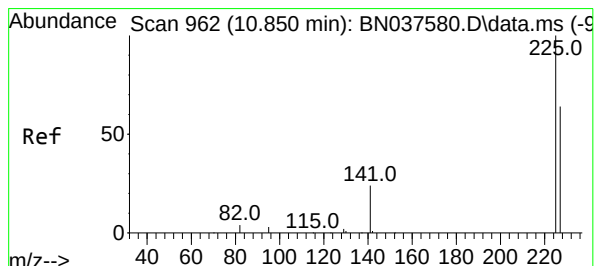
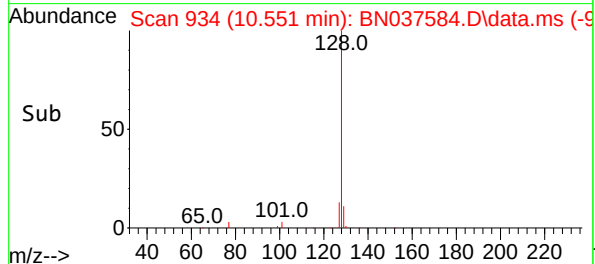
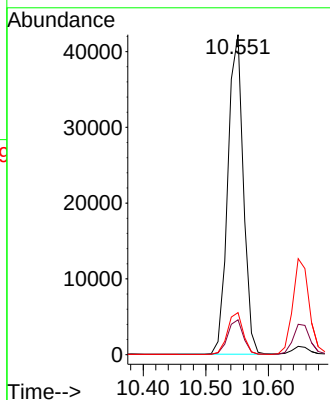
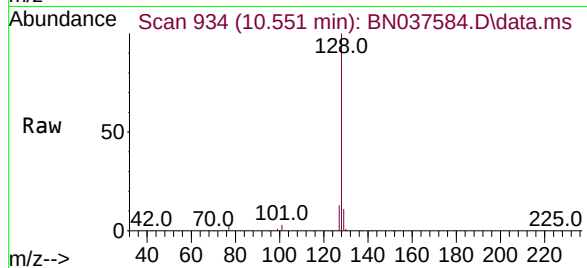




#9
Naphthalene
Concen: 5.293 ng
RT: 10.551 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

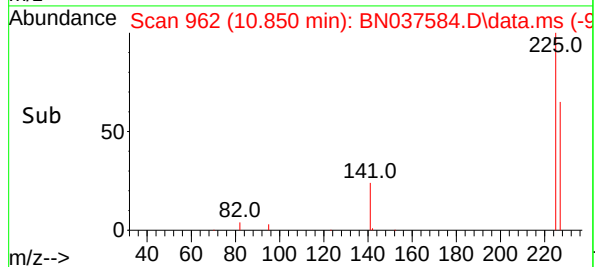
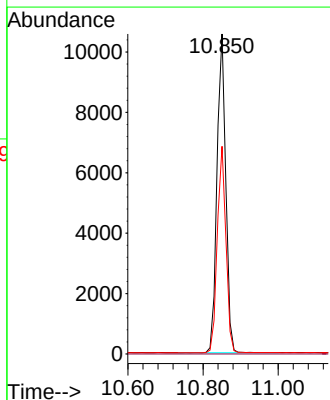
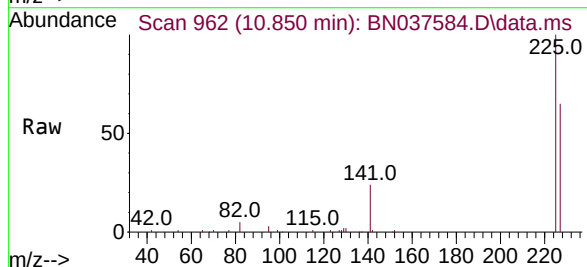
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

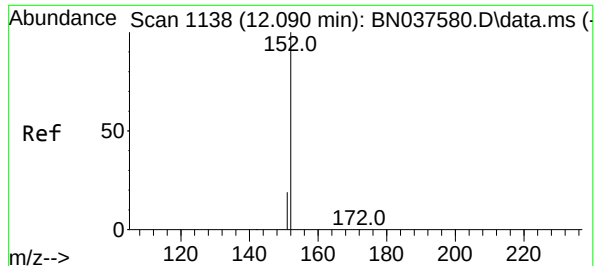
Tgt Ion:128 Resp: 72603
Ion Ratio Lower Upper
128 100
129 10.9 9.8 14.6
127 13.1 11.5 17.3



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

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

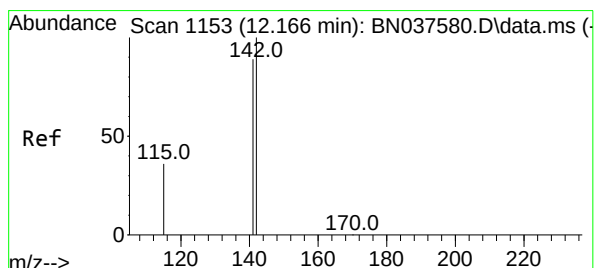
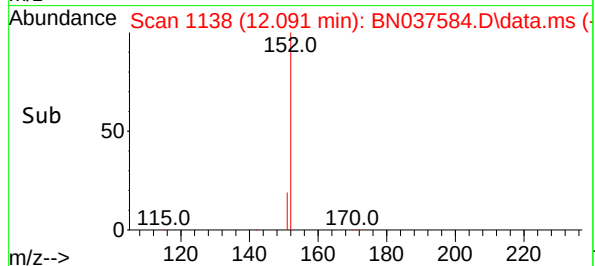
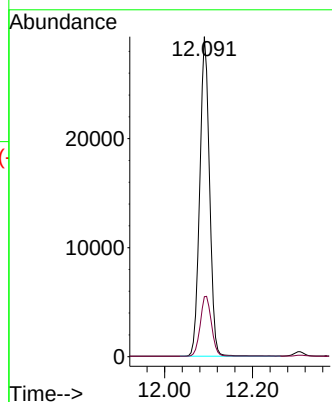
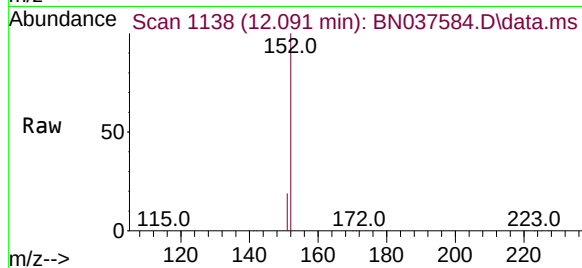




#11
2-Methylnaphthalene-d10
Concen: 6.480 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

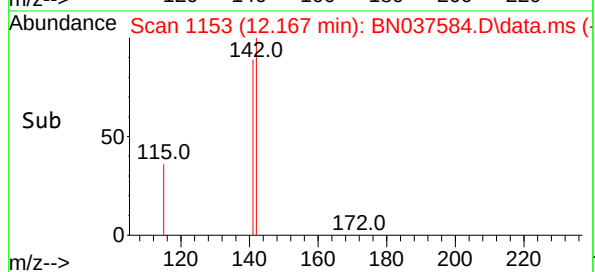
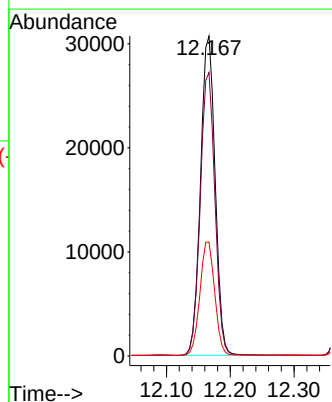
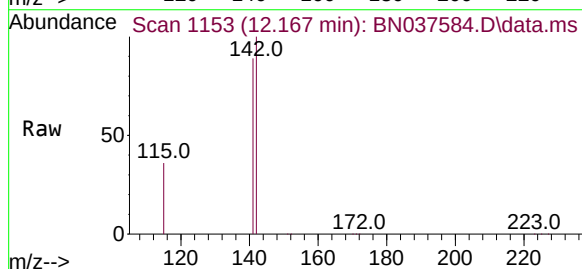
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

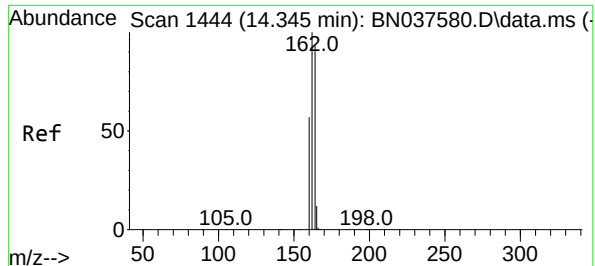
Tgt Ion:152 Resp: 45385
Ion Ratio Lower Upper
152 100
151 21.4 17.3 25.9



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

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





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 1444

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

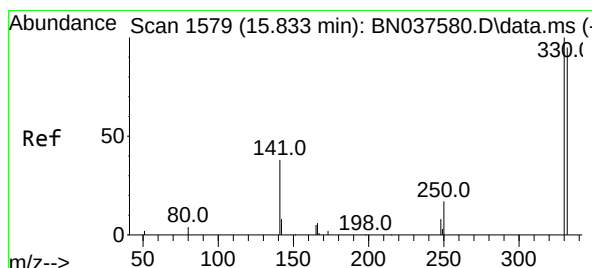
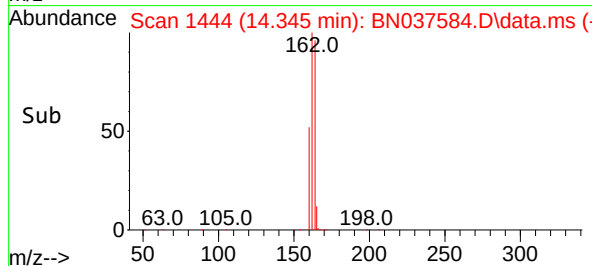
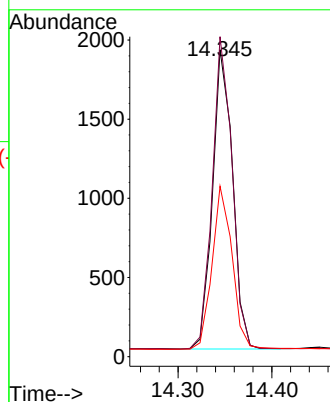
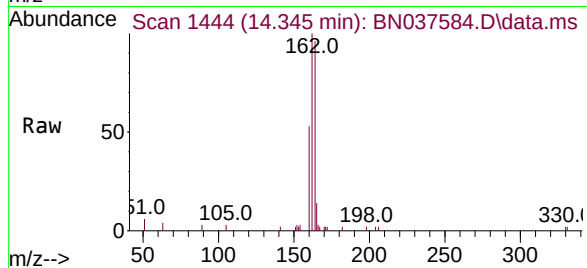
Tgt Ion:164 Resp: 2803

Ion Ratio Lower Upper

164 100

162 104.2 85.5 128.3

160 55.5 49.5 74.3



#14

2,4,6-Tribromophenol

Concen: 6.672 ng

RT: 15.833 min Scan# 1579

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

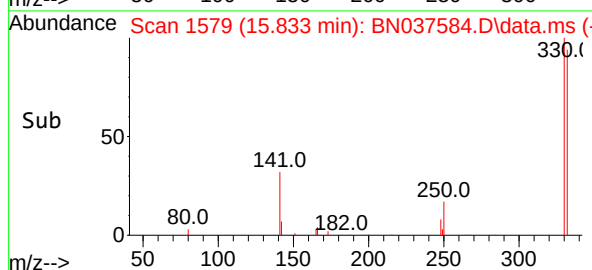
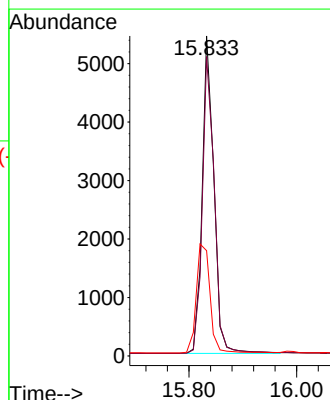
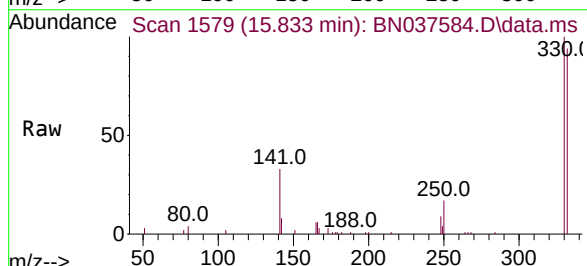
Tgt Ion:330 Resp: 8185

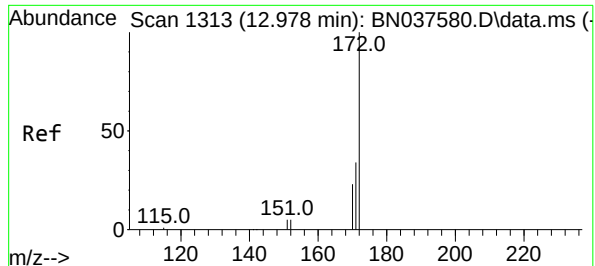
Ion Ratio Lower Upper

330 100

332 96.2 77.4 116.0

141 40.7 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 5.273 ng

RT: 12.973 min Scan# 1312

Delta R.T. -0.005 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

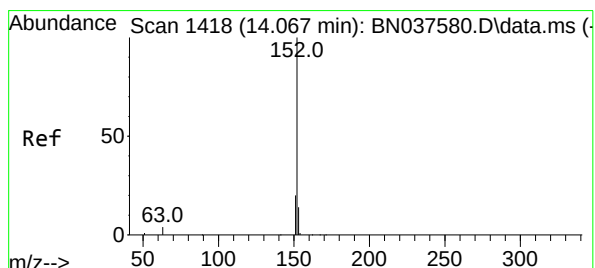
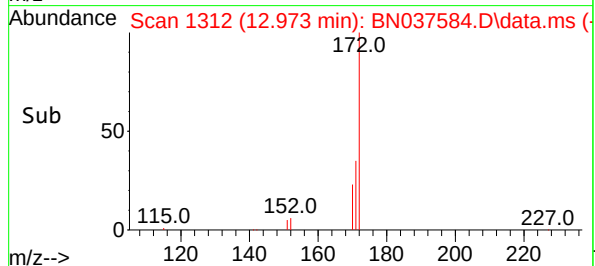
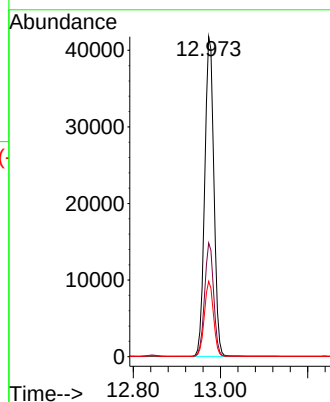
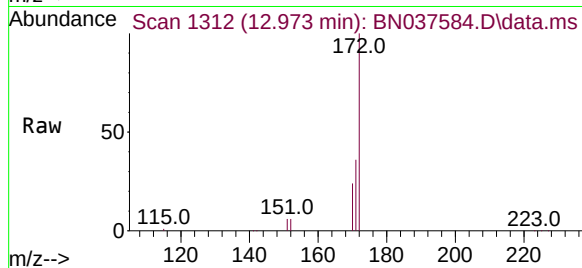
Tgt Ion:172 Resp: 85489

Ion Ratio Lower Upper

172 100

171 35.6 28.2 42.4

170 23.6 19.2 28.8



#16

Acenaphthylene

Concen: 5.521 ng

RT: 14.067 min Scan# 1418

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

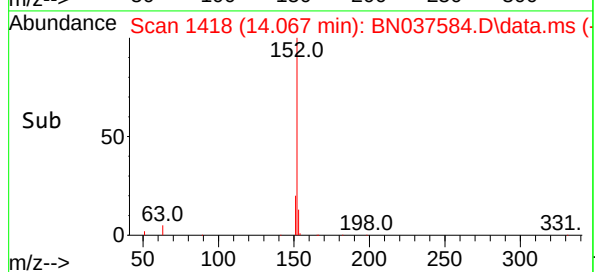
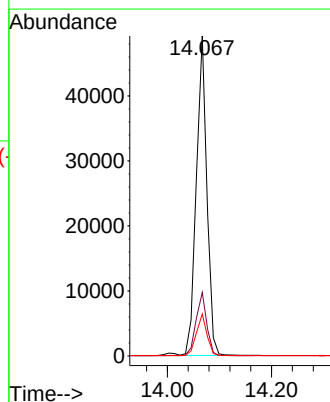
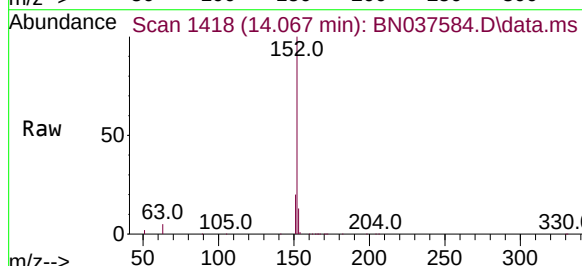
Tgt Ion:152 Resp: 69369

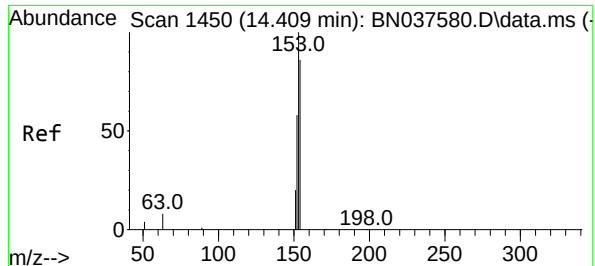
Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

153 12.9 10.7 16.1

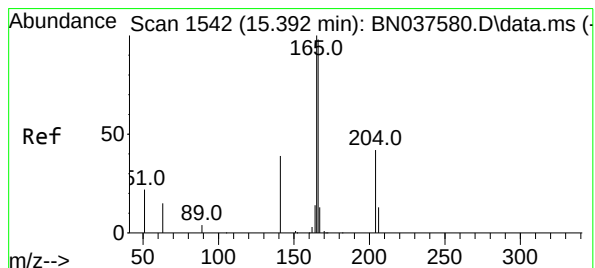
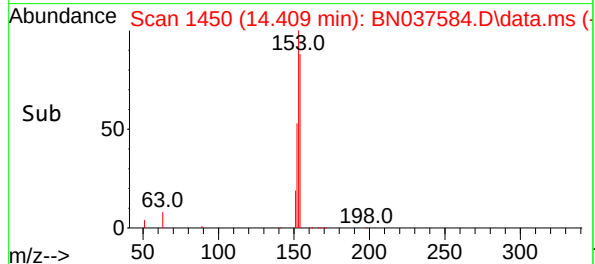
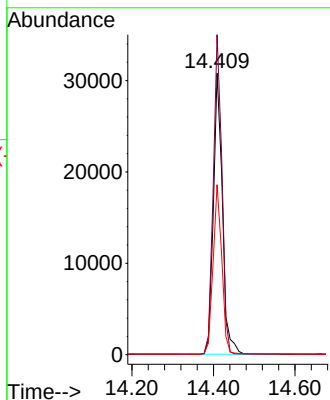
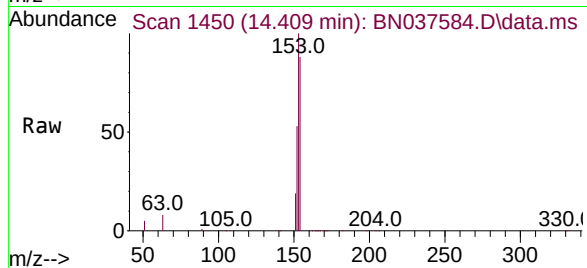




#17
Acenaphthene
Concen: 5.527 ng
RT: 14.409 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

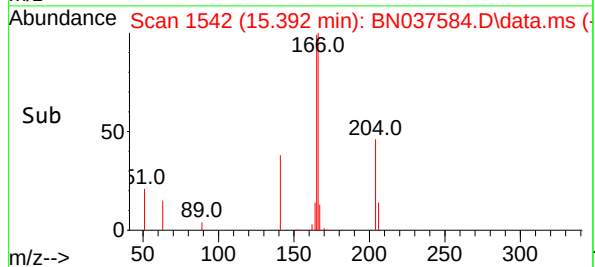
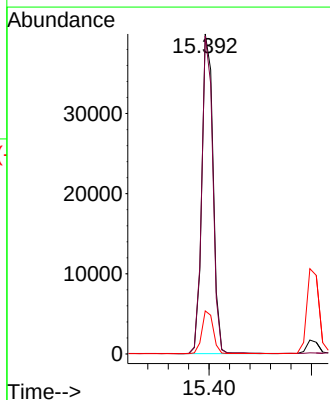
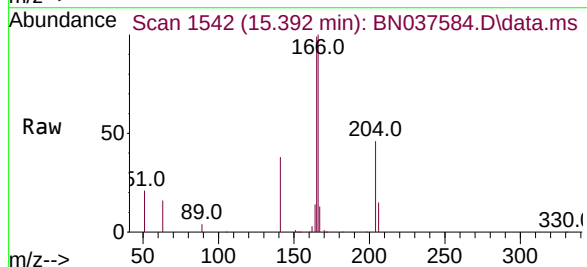
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

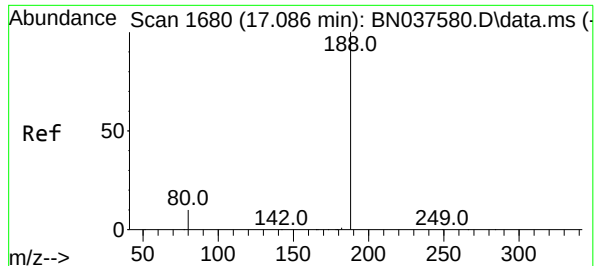
Tgt Ion:154 Resp: 47237
Ion Ratio Lower Upper
154 100
153 108.5 90.6 135.8
152 58.2 54.9 82.3



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

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





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

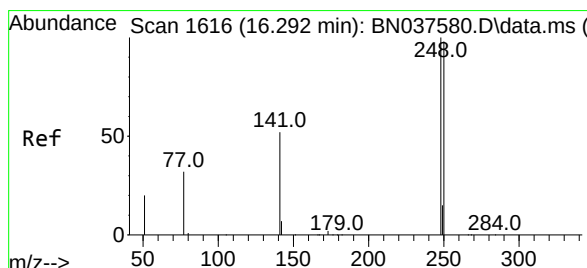
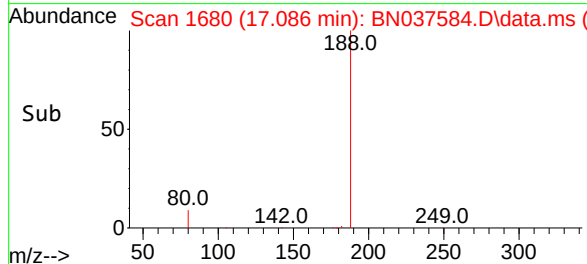
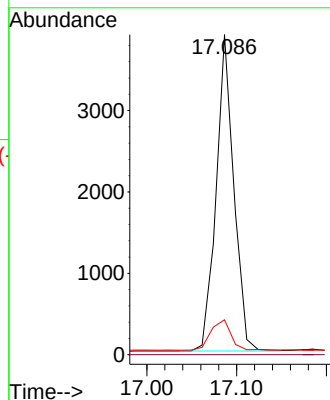
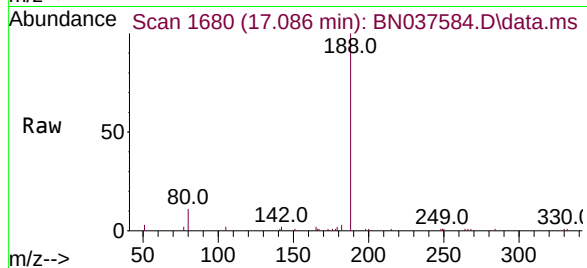
Tgt Ion:188 Resp: 5318

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 5.809 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

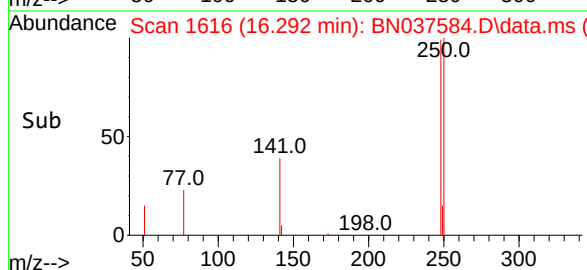
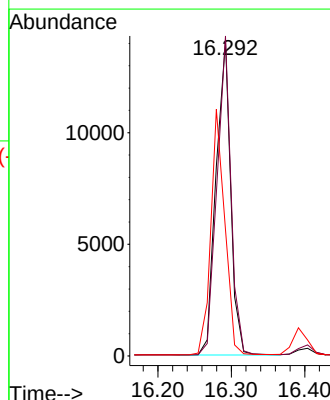
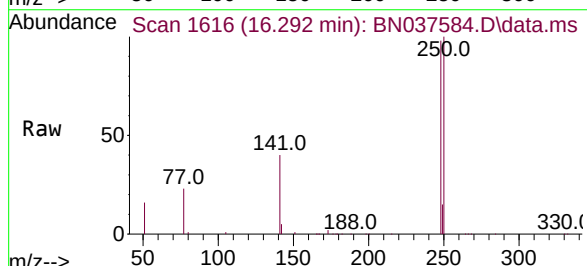
Tgt Ion:248 Resp: 19417

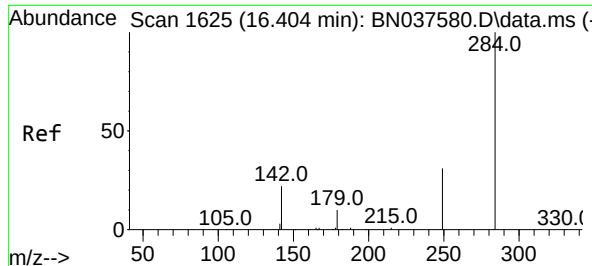
Ion Ratio Lower Upper

248 100

250 101.5 78.6 118.0

141 40.1 43.7 65.5#

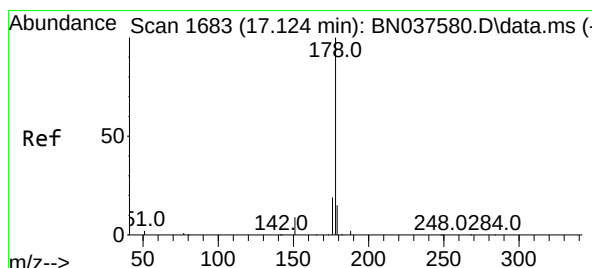
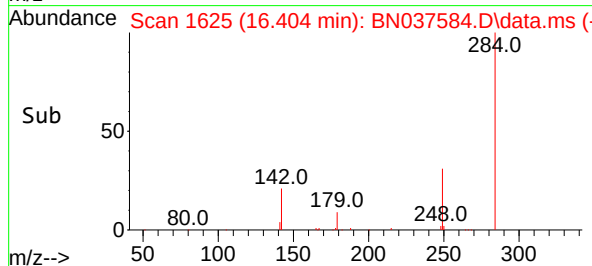
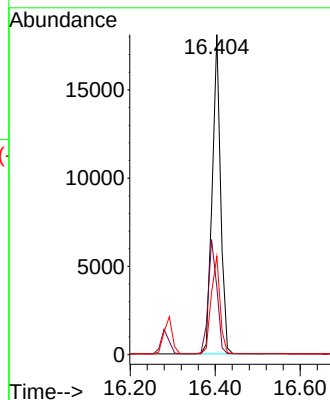
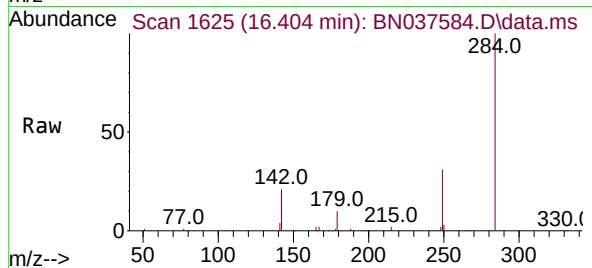




#22
Hexachlorobenzene
Concen: 5.190 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

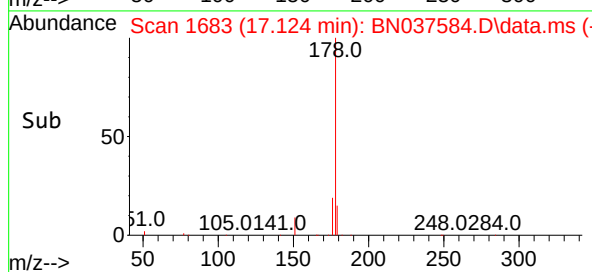
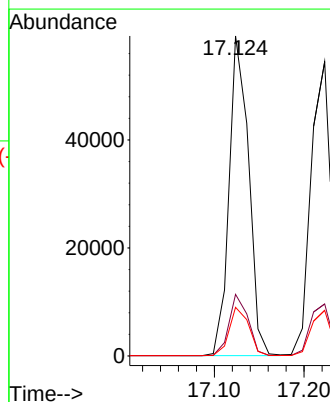
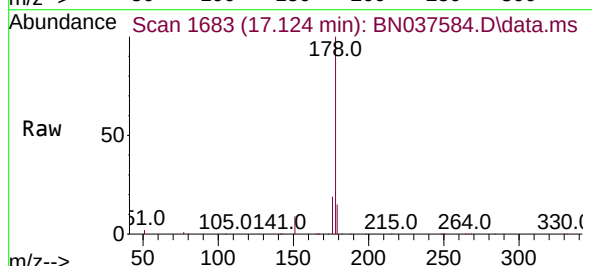
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

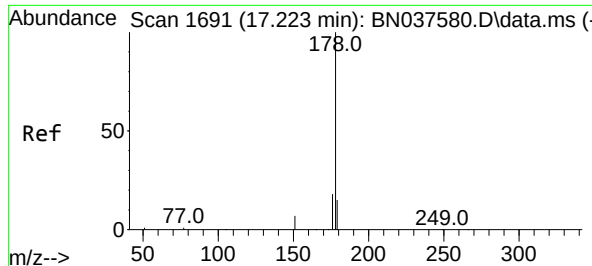
Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.2	29.8	44.6
249	32.3	26.0	39.0



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

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

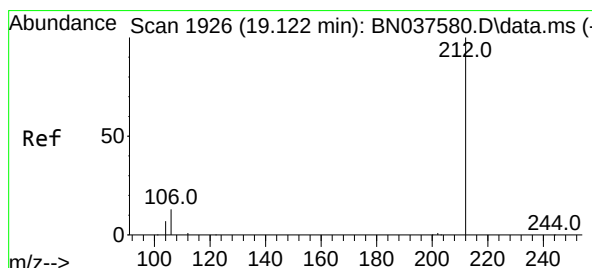
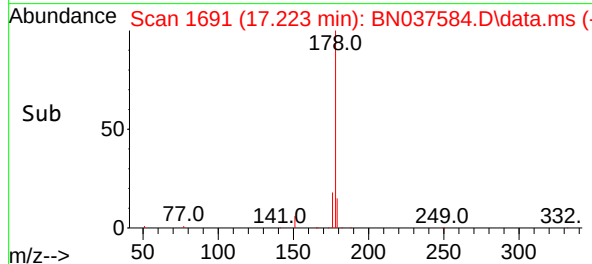
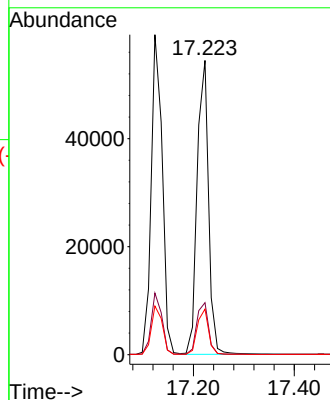
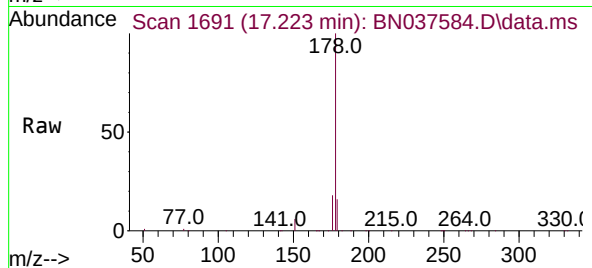




#26
Anthracene
Concen: 5.972 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

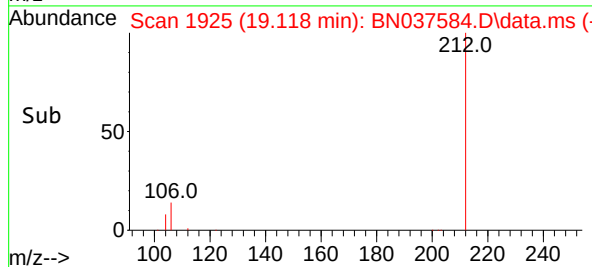
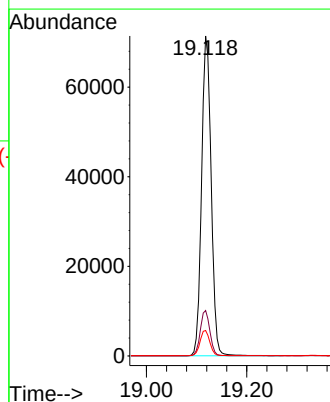
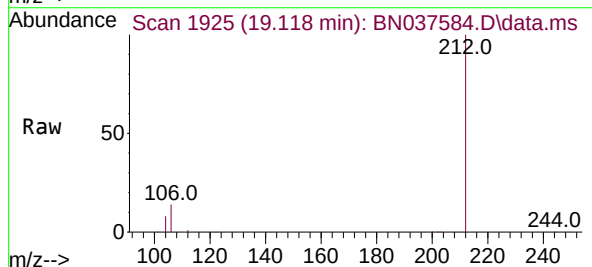
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

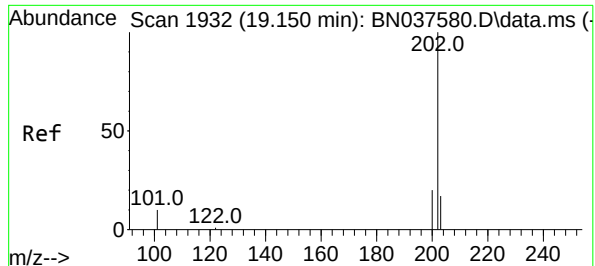
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	15.4	12.3	18.5



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

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

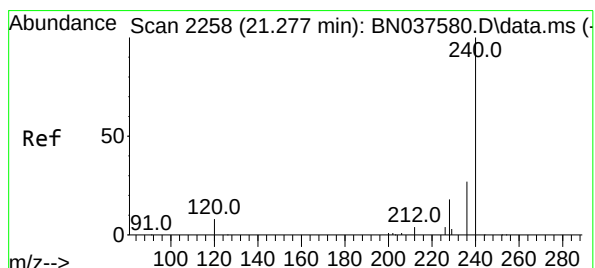
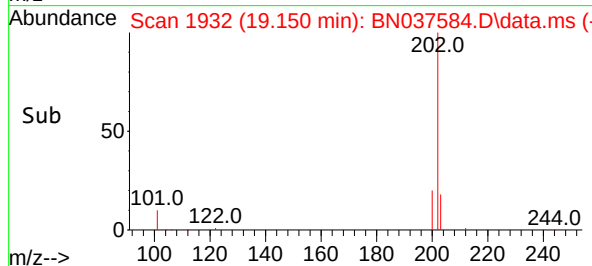
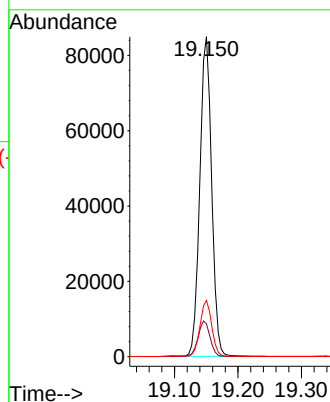
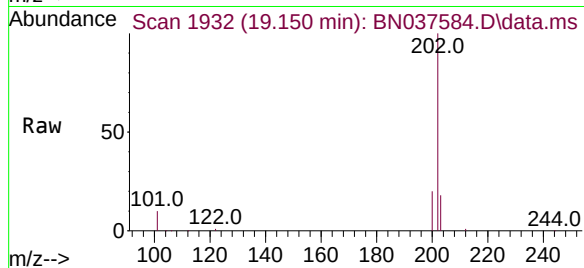




#28
Fluoranthene
Concen: 5.900 ng
RT: 19.150 min Scan# 1932
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

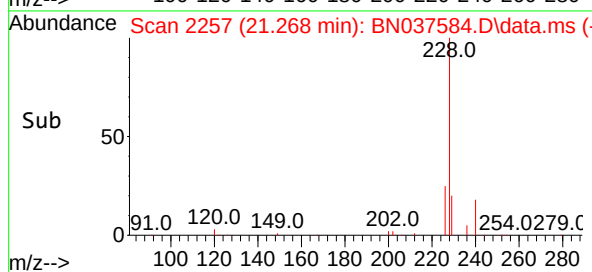
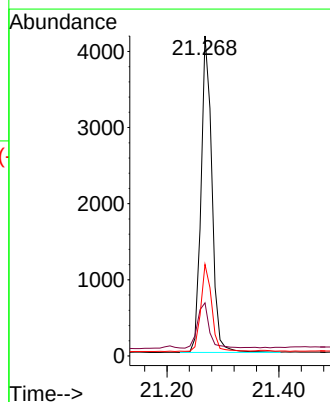
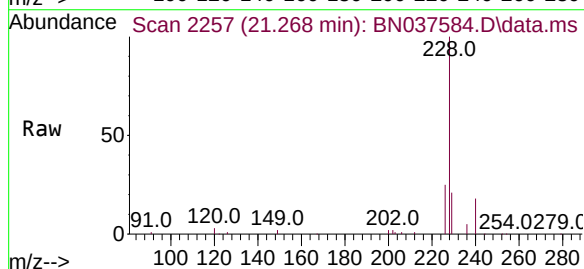
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

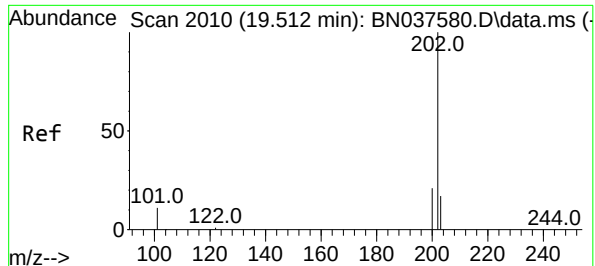
Tgt Ion:202 Resp: 109583
Ion Ratio Lower Upper
202 100
101 11.4 9.0 13.6
203 17.4 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.009 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:240 Resp: 5600
Ion Ratio Lower Upper
240 100
120 16.6 8.9 13.3#
236 28.6 22.6 33.8





#30

Pyrene

Concen: 5.190 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

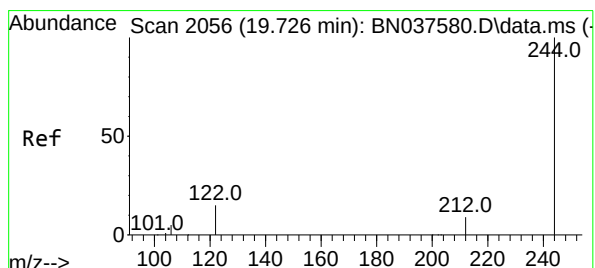
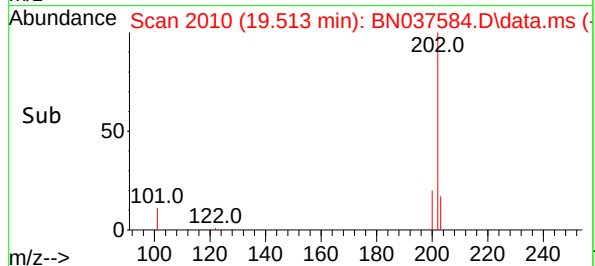
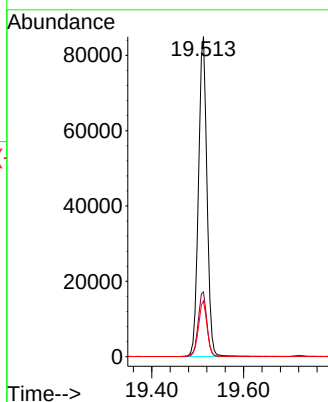
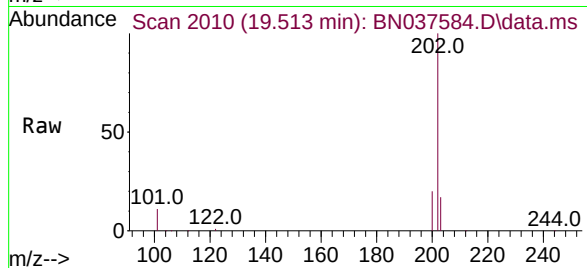
Tgt Ion:202 Resp: 108658

Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.8 14.3 21.5



#31

Terphenyl-d14

Concen: 5.477 ng

RT: 19.722 min Scan# 2055

Delta R.T. -0.005 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

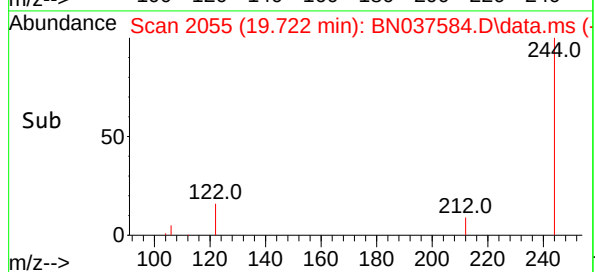
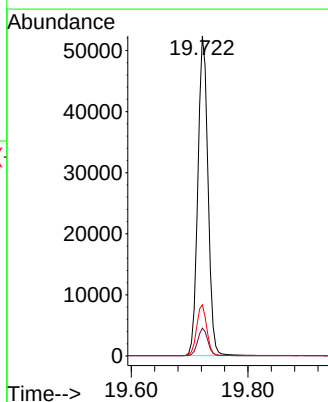
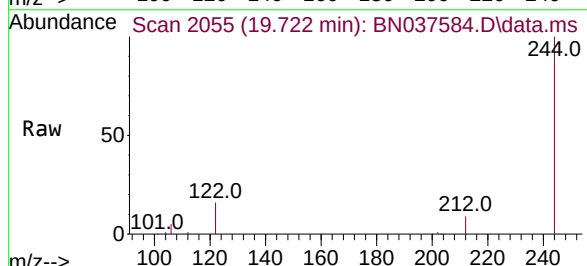
Tgt Ion:244 Resp: 63100

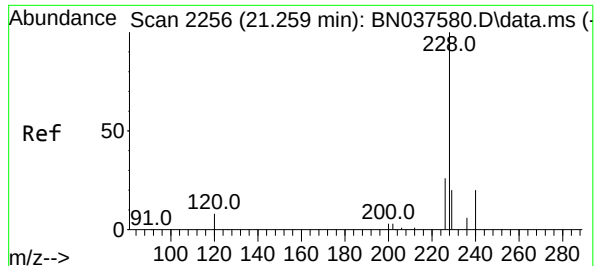
Ion Ratio Lower Upper

244 100

212 8.7 8.2 12.2

122 16.0 13.2 19.8

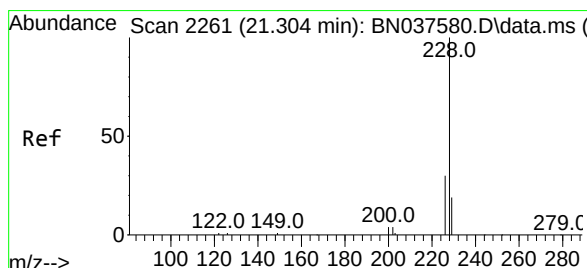
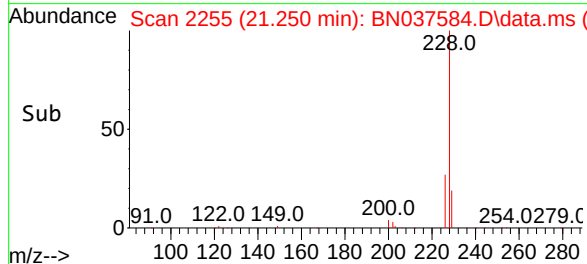
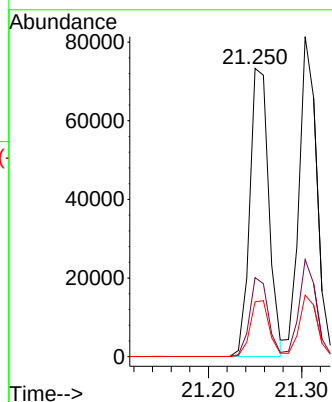
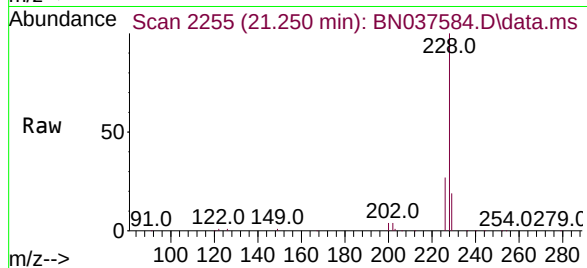




#32
Benzo(a)anthracene
Concen: 5.564 ng
RT: 21.250 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

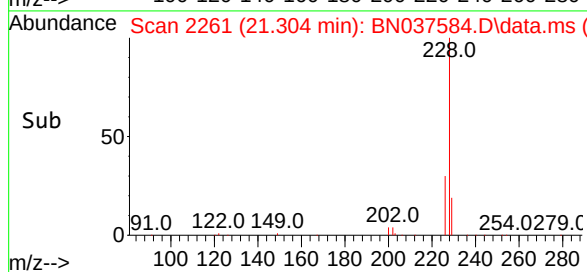
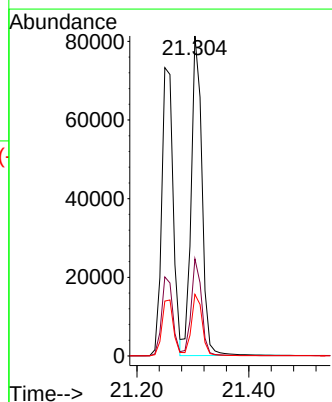
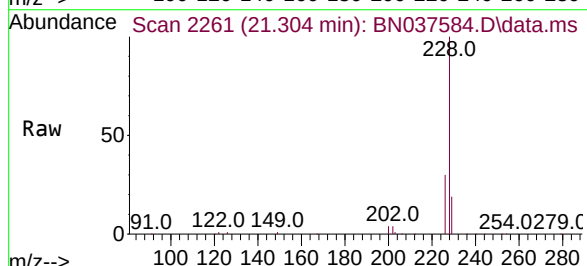
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

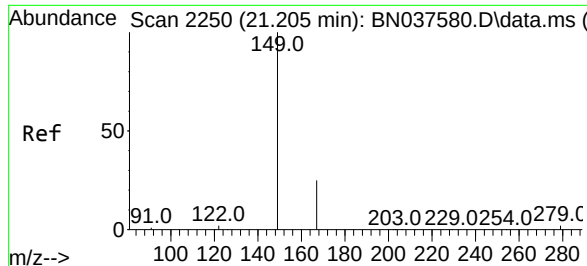
Tgt Ion:228 Resp: 104084
Ion Ratio Lower Upper
228 100
226 27.4 21.5 32.3
229 19.0 16.5 24.7



#33
Chrysene
Concen: 5.207 ng
RT: 21.304 min Scan# 2261
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:228 Resp: 108554
Ion Ratio Lower Upper
228 100
226 30.4 24.9 37.3
229 19.2 15.8 23.8

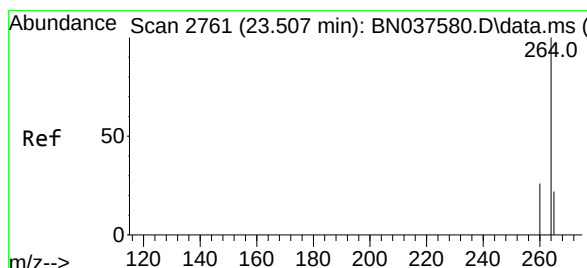
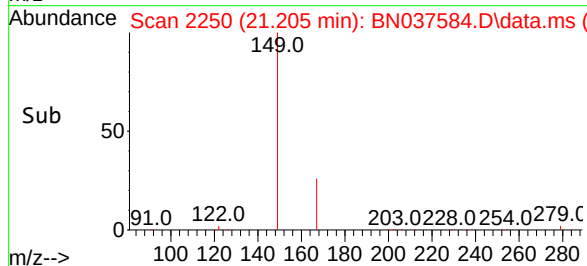
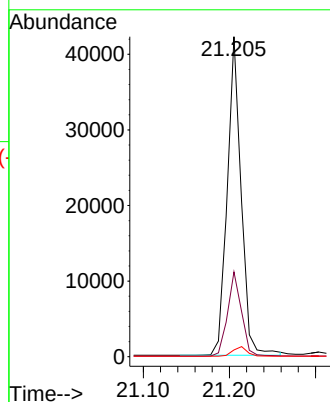
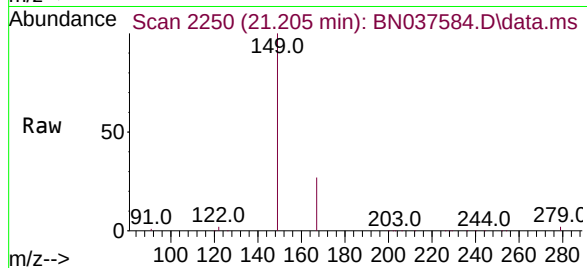




#34
Bis(2-ethylhexyl)phthalate
Concen: 6.087 ng
RT: 21.205 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

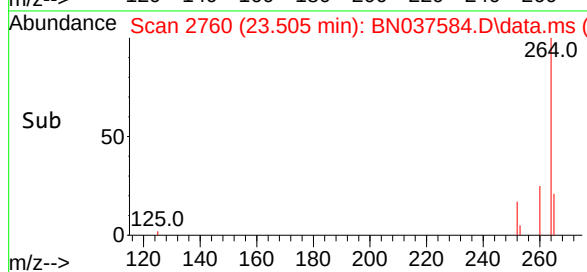
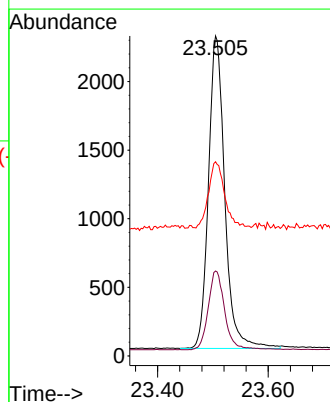
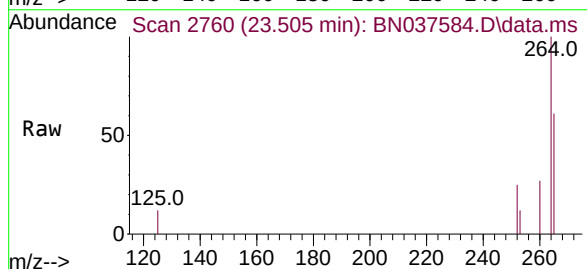
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

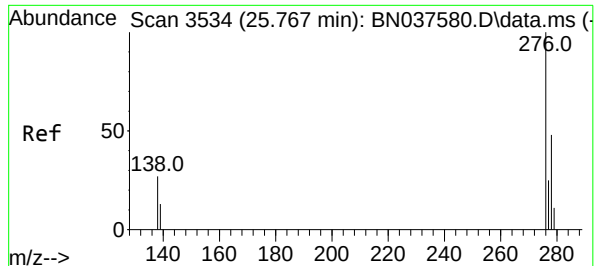
Tgt Ion:149 Resp: 46994
Ion Ratio Lower Upper
149 100
167 26.4 20.5 30.7
279 3.1 2.6 4.0



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

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

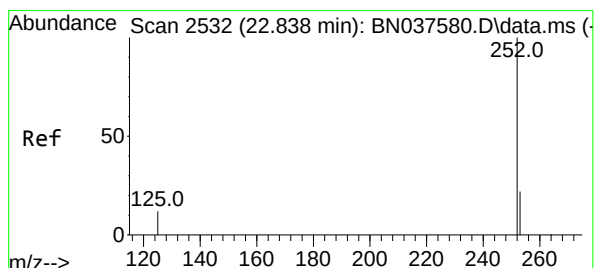
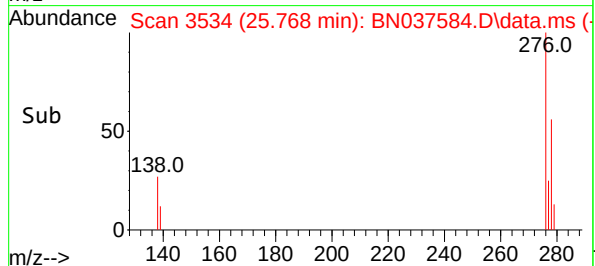
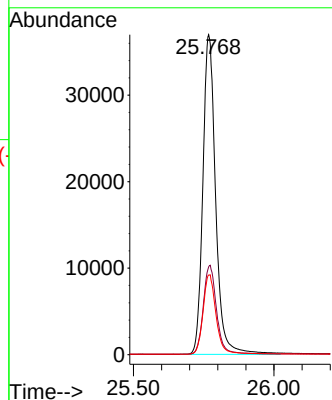
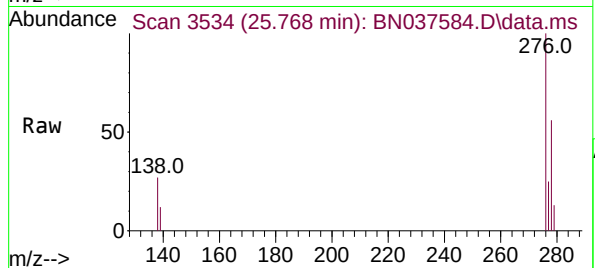




#36
Indeno(1,2,3-cd)pyrene
Concen: 5.965 ng
RT: 25.768 min Scan# 3534
Delta R.T. 0.000 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

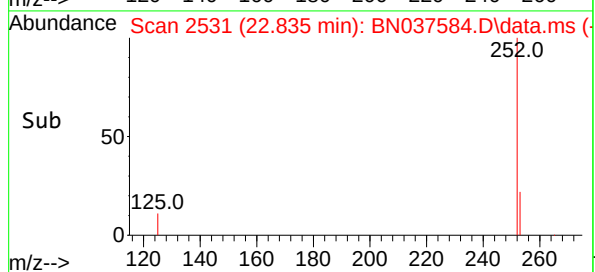
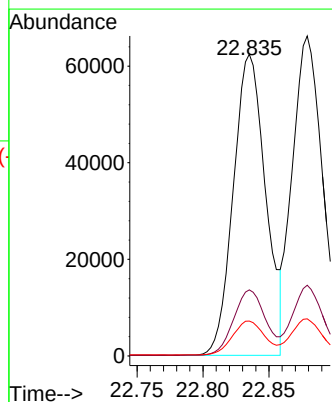
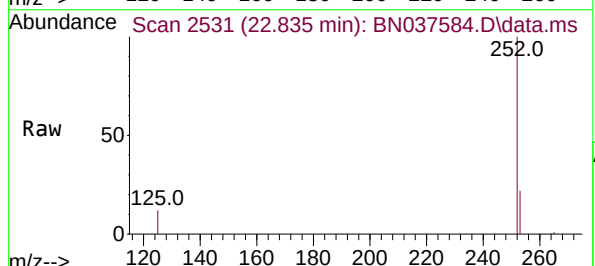
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

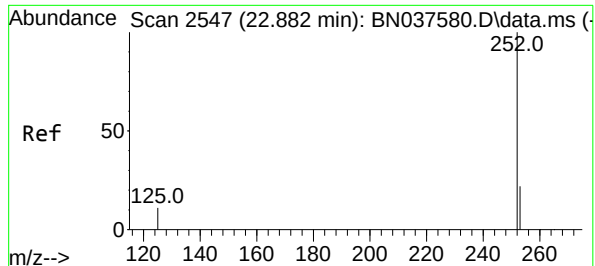
Tgt Ion:276 Resp: 116962
Ion Ratio Lower Upper
276 100
138 28.5 23.3 34.9
277 25.2 19.5 29.3



#37
Benzo(b)fluoranthene
Concen: 6.019 ng
RT: 22.835 min Scan# 2531
Delta R.T. -0.003 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:252 Resp: 106138
Ion Ratio Lower Upper
252 100
253 21.9 20.0 30.0
125 11.6 13.8 20.6#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 22.879 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

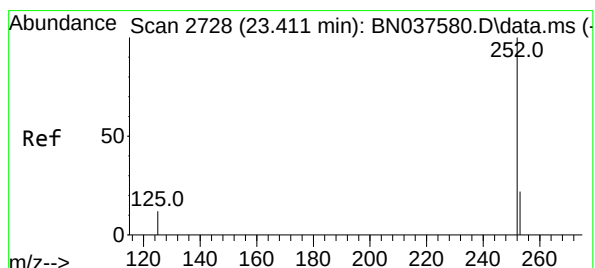
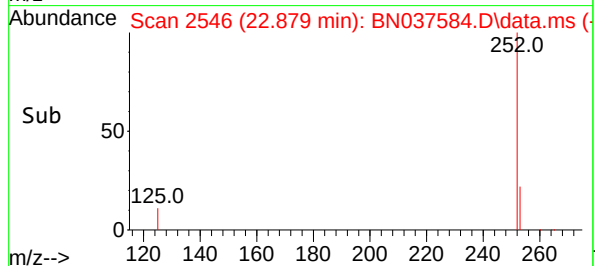
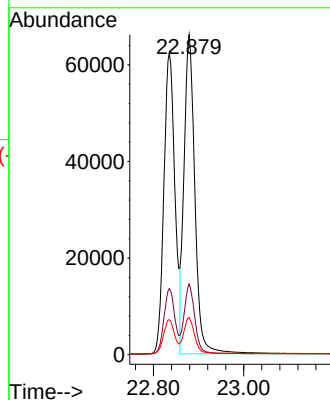
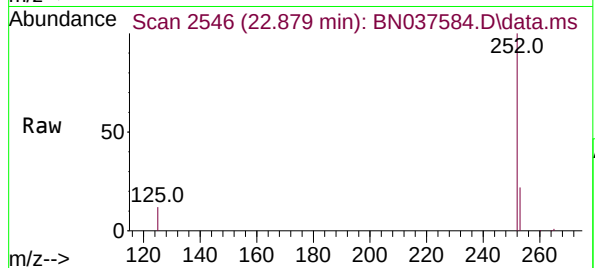
Tgt Ion:252 Resp: 110373

Ion Ratio Lower Upper

252 100

253 22.1 19.9 29.9

125 11.6 15.0 22.6#



#39

Benzo(a)pyrene

Concen: 5.997 ng

RT: 23.408 min Scan# 2727

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

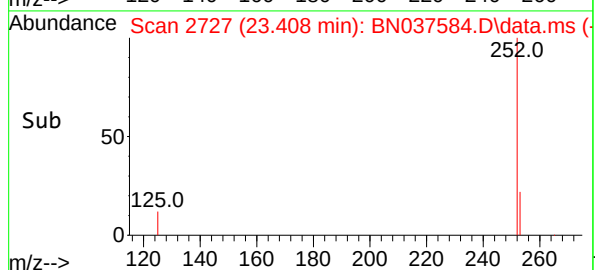
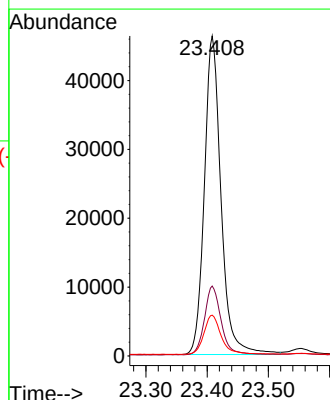
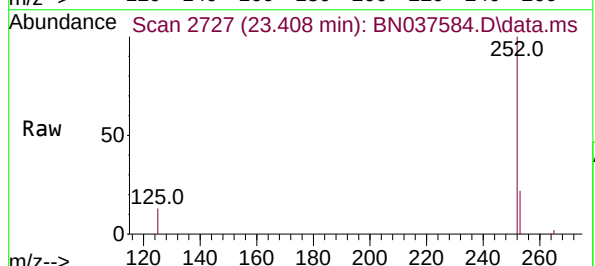
Tgt Ion:252 Resp: 87699

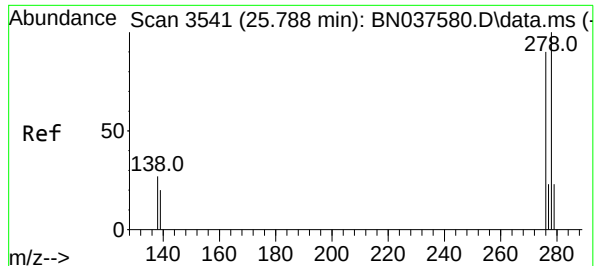
Ion Ratio Lower Upper

252 100

253 21.8 21.6 32.4

125 12.8 16.8 25.2#

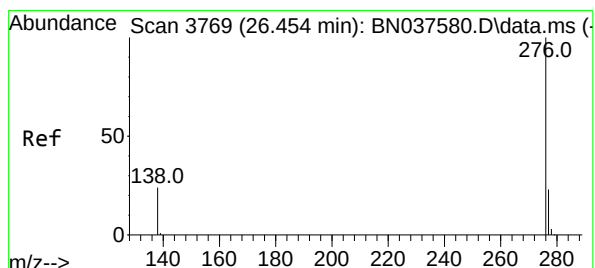
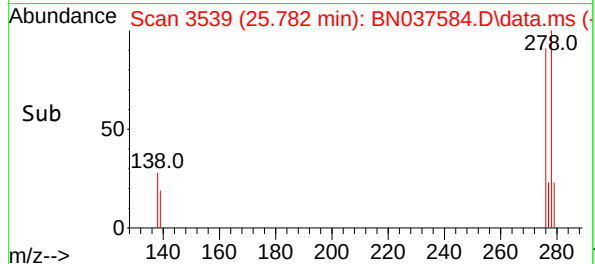
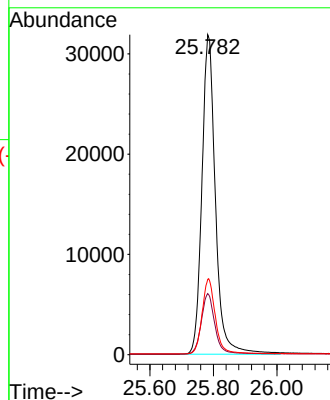
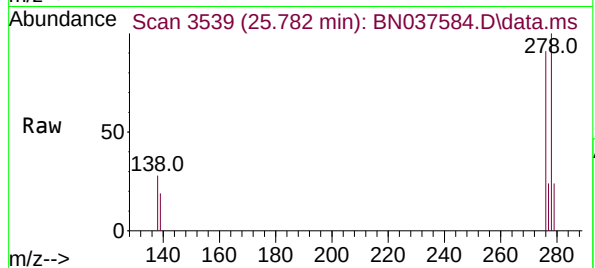




#40
Dibenzo(a,h)anthracene
Concen: 6.197 ng
RT: 25.782 min Scan# 31
Delta R.T. -0.006 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

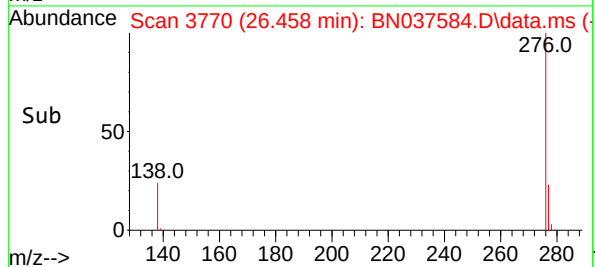
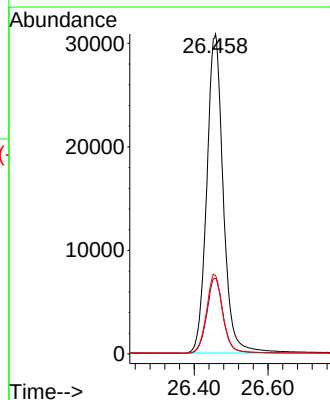
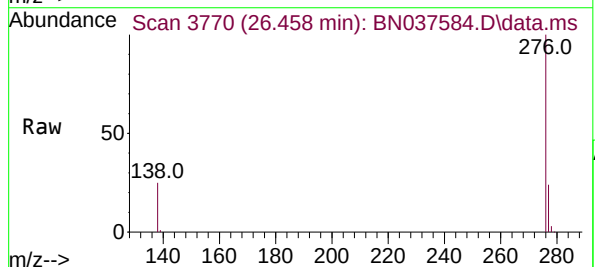
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 94267
Ion Ratio Lower Upper
278 100
139 19.1 18.3 27.5
279 23.6 22.5 33.7



#41
Benzo(g,h,i)perylene
Concen: 5.960 ng
RT: 26.458 min Scan# 3770
Delta R.T. 0.003 min
Lab File: BN037584.D
Acq: 12 Aug 2025 20:05

Tgt Ion:276 Resp: 95537
Ion Ratio Lower Upper
276 100
277 23.6 21.0 31.4
138 24.5 21.7 32.5



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

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081225

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

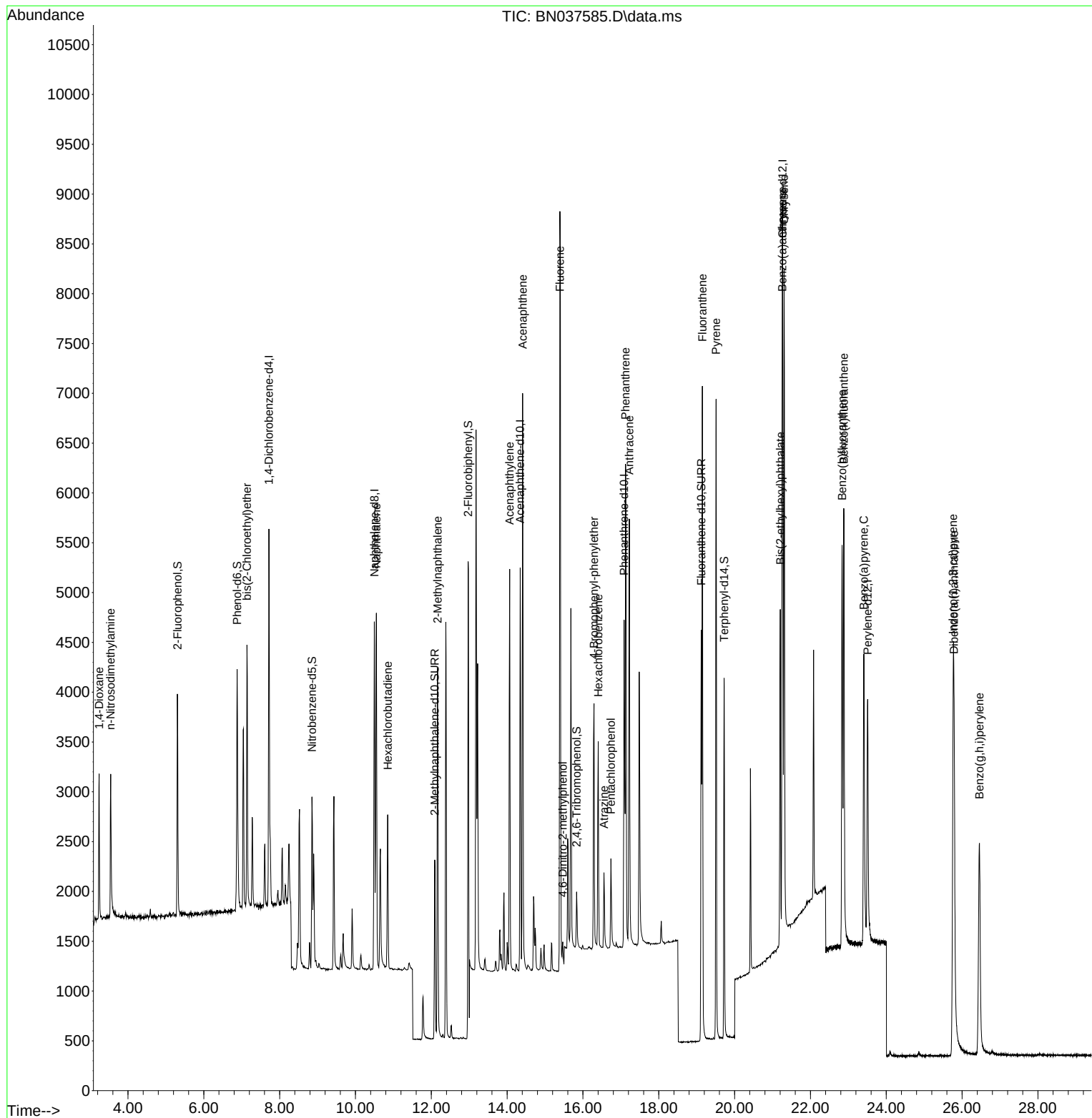
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1850	0.400	ng	0.00
7) Naphthalene-d8	10.498	136	4517	0.400	ng	0.00
13) Acenaphthene-d10	14.345	164	2241	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4564	0.400	ng	0.00
29) Chrysene-d12	21.268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

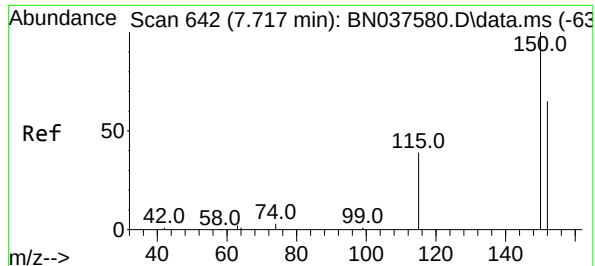
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

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

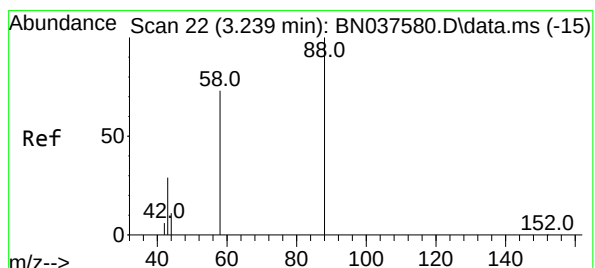
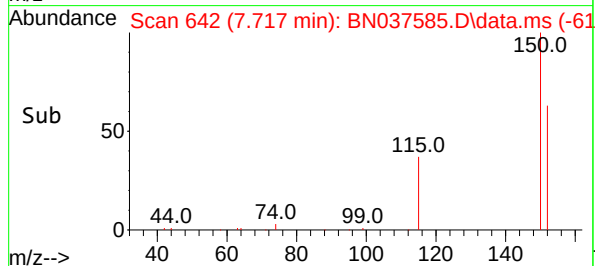
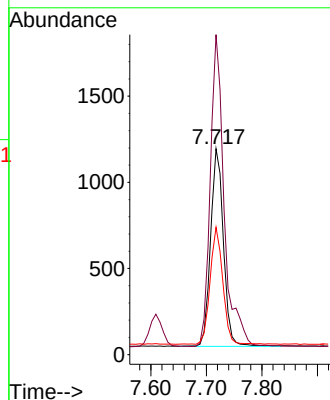
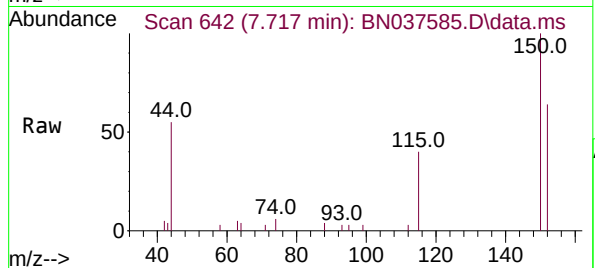




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

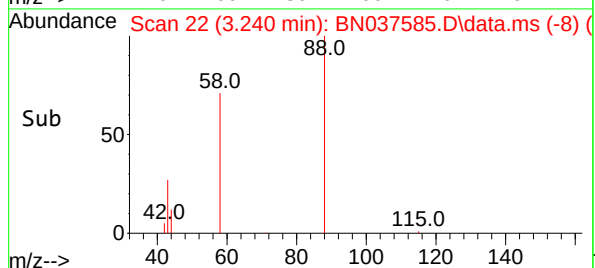
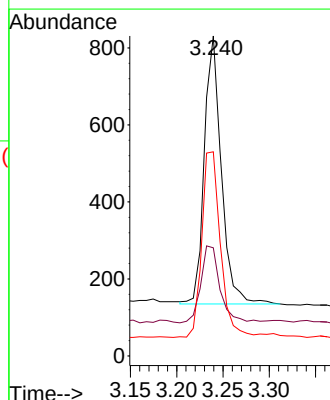
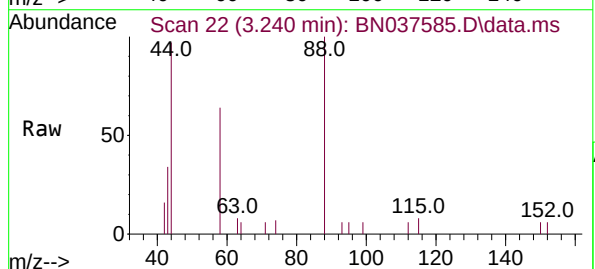
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

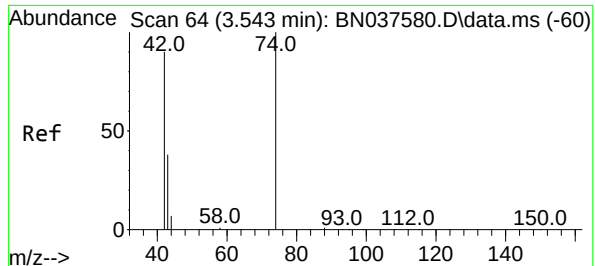
Tgt Ion:152 Resp: 1850
Ion Ratio Lower Upper
152 100
150 155.4 122.2 183.4
115 61.8 49.8 74.6



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

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

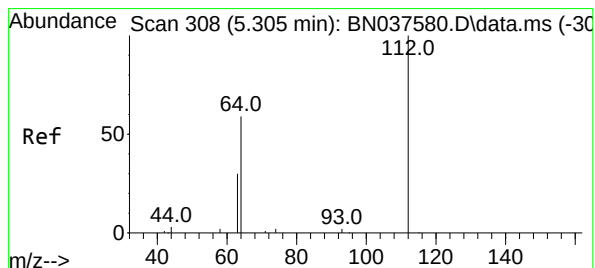
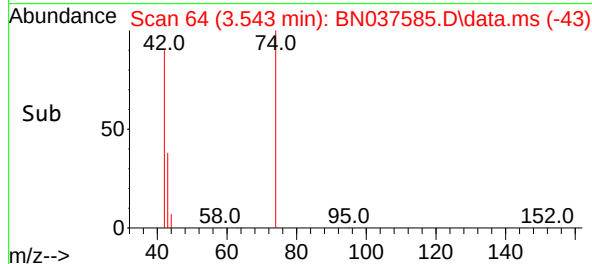
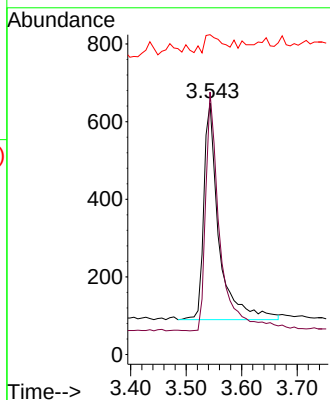
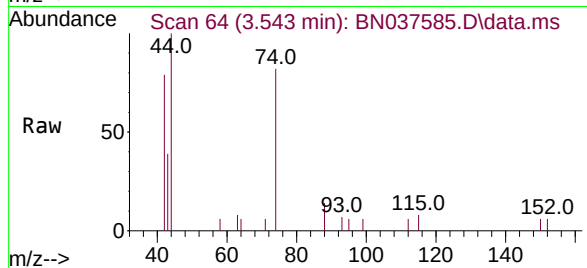




#3
n-Nitrosodimethylamine
Concen: 0.466 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

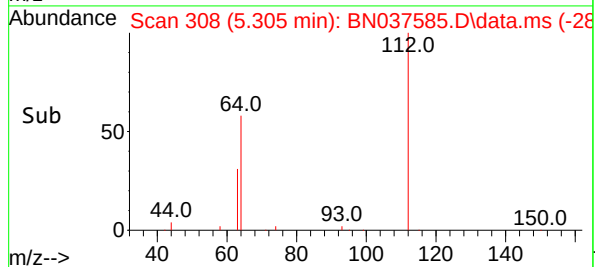
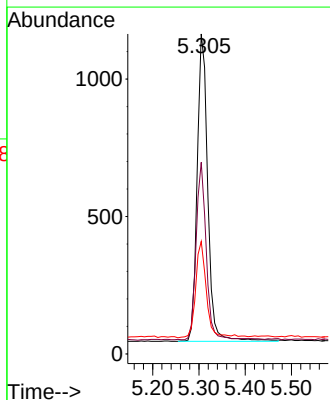
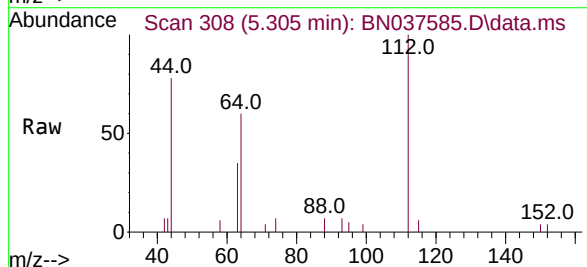
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

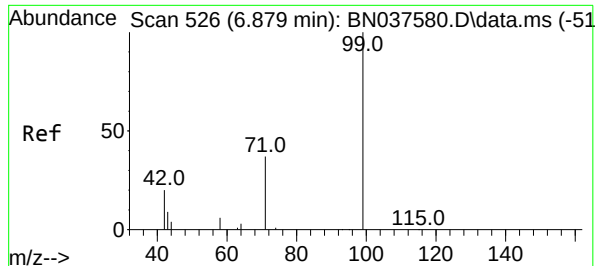
Tgt Ion: 42 Resp: 1054
Ion Ratio Lower Upper
42 100
74 104.6 82.0 123.0
44 9.7 7.9 11.9



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

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





#5

Phenol-d6

Concen: 0.450 ng

RT: 6.880 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

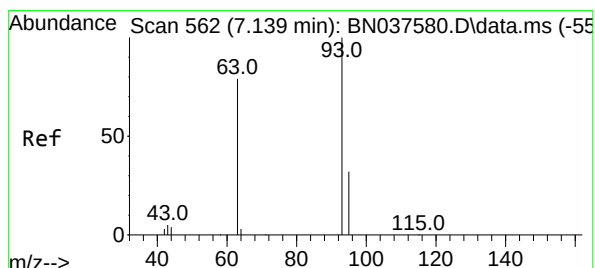
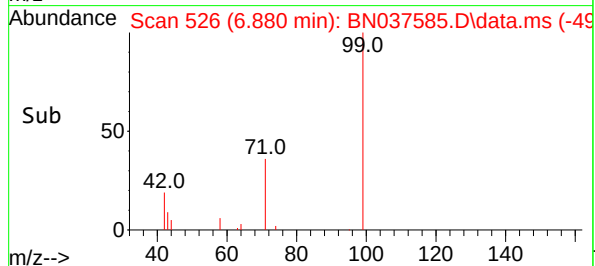
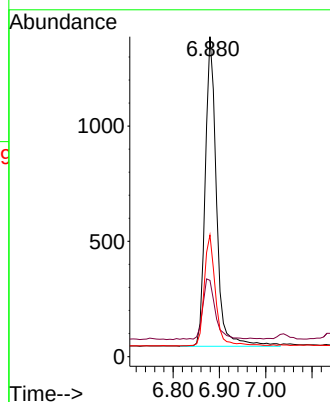
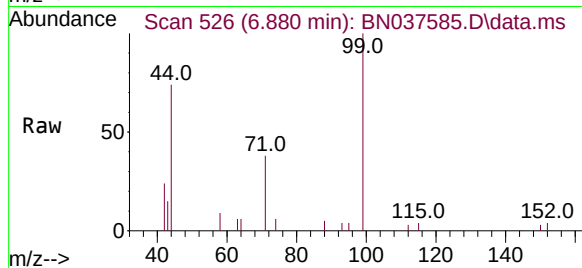
Tgt Ion: 99 Resp: 2272

Ion Ratio Lower Upper

99 100

42 21.9 18.5 27.7

71 35.6 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.438 ng

RT: 7.140 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

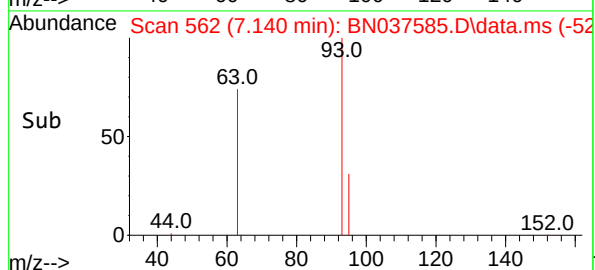
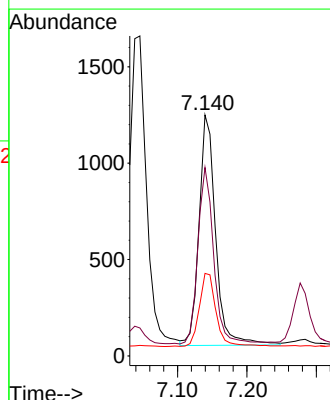
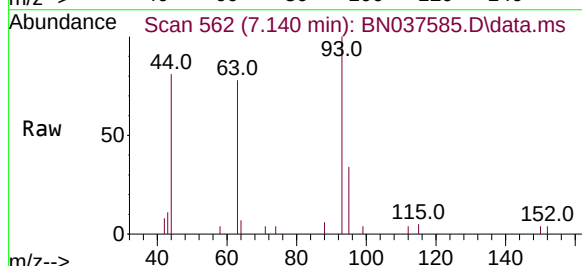
Tgt Ion: 93 Resp: 1993

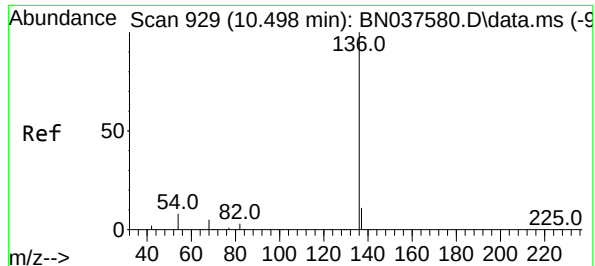
Ion Ratio Lower Upper

93 100

63 72.5 58.0 87.0

95 32.1 24.9 37.3

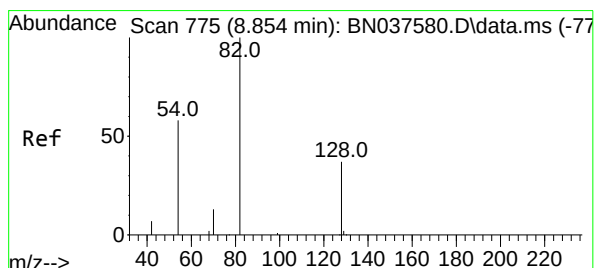
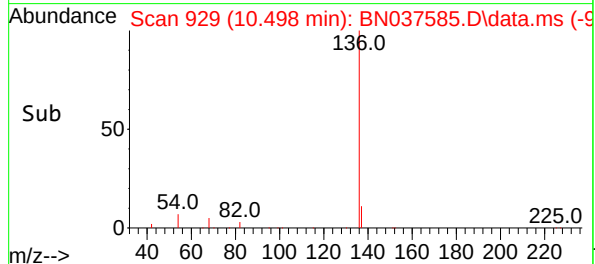
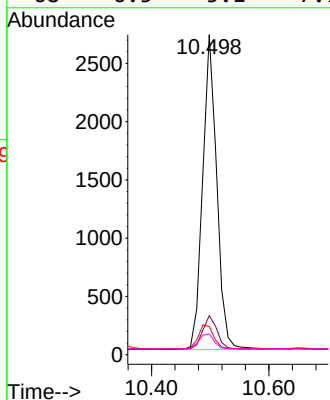
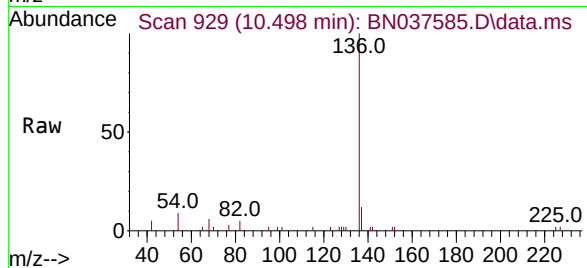




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.498 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

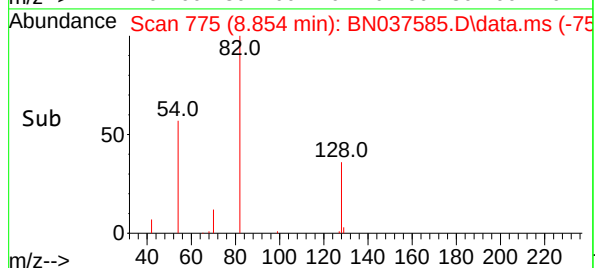
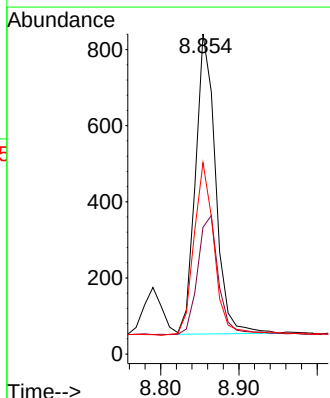
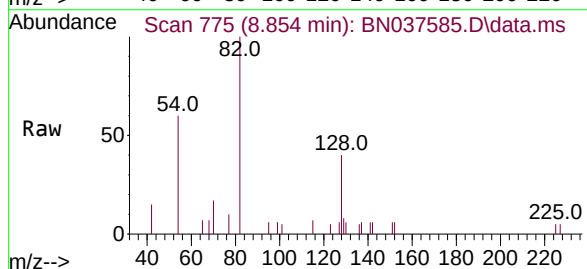
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

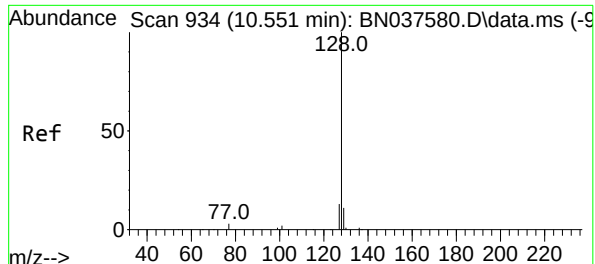
Tgt Ion:	136	Resp:	4517
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	8.8	7.3	10.9
68	6.5	5.1	7.7



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

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





#9

Naphthalene

Concen: 0.415 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

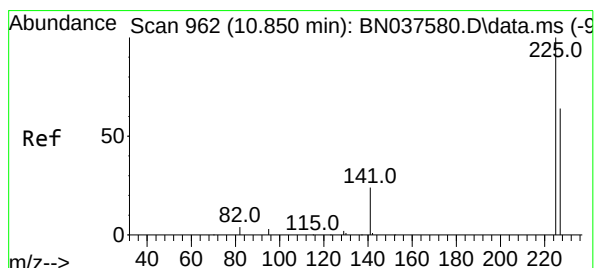
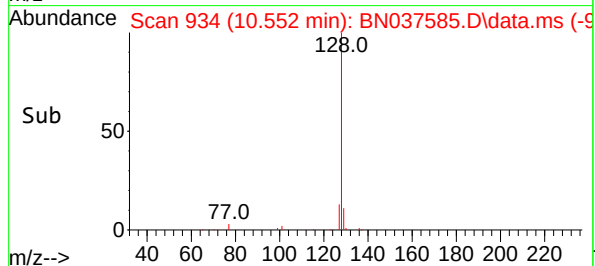
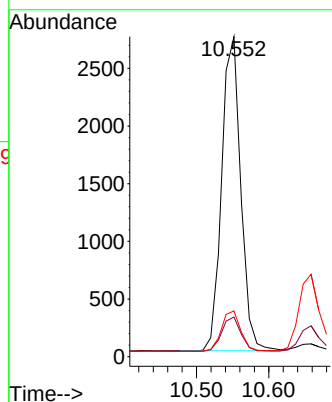
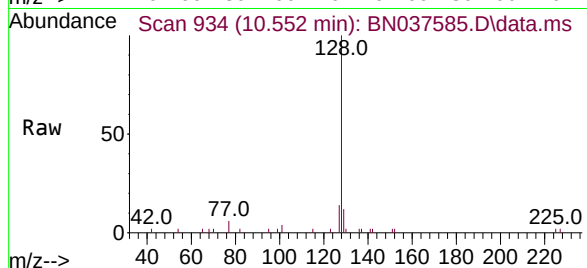
Tgt Ion:128 Resp: 4985

Ion Ratio Lower Upper

128 100

129 12.4 9.8 14.6

127 14.3 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.429 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

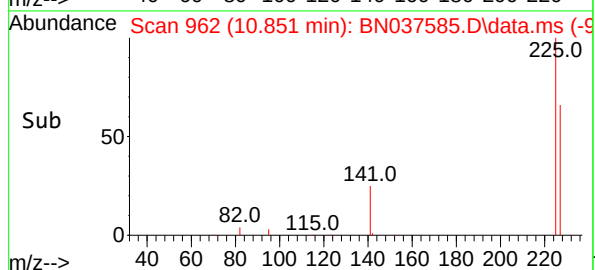
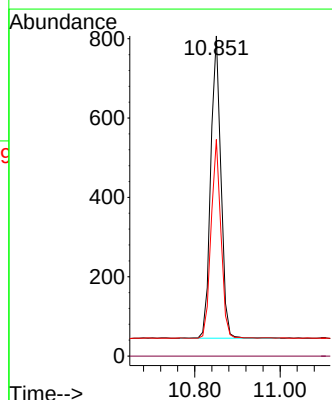
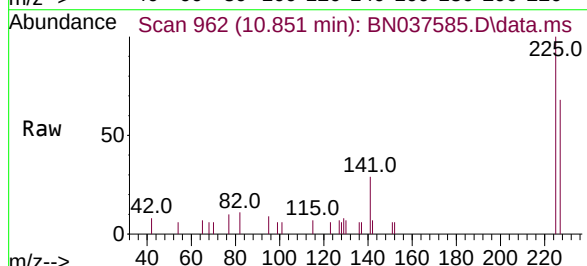
Tgt Ion:225 Resp: 1259

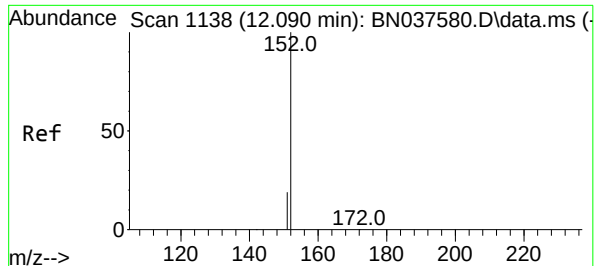
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.4 50.8 76.2

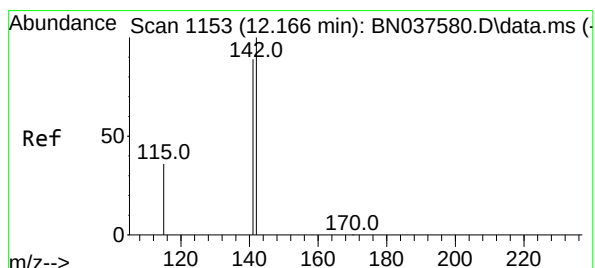
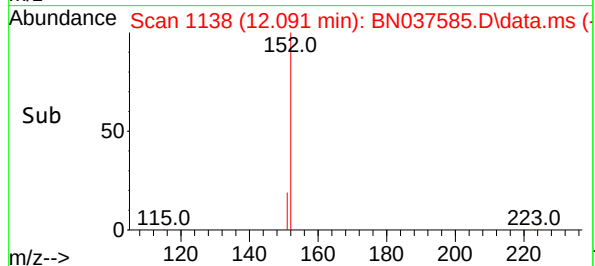
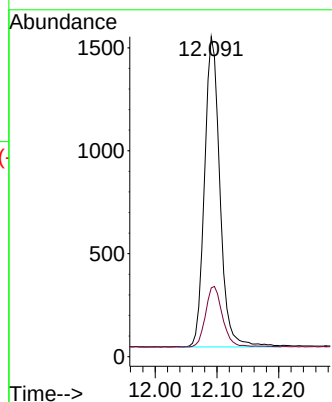
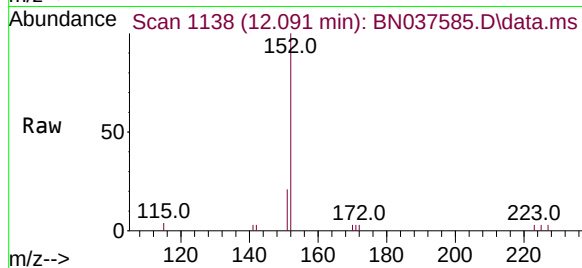




#11
2-Methylnaphthalene-d10
Concen: 0.425 ng
RT: 12.091 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

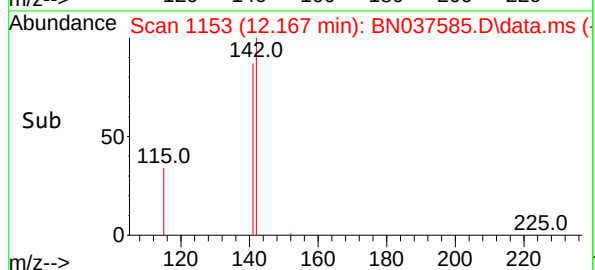
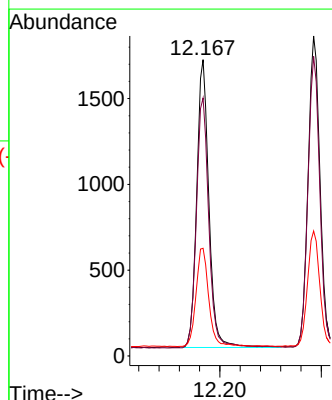
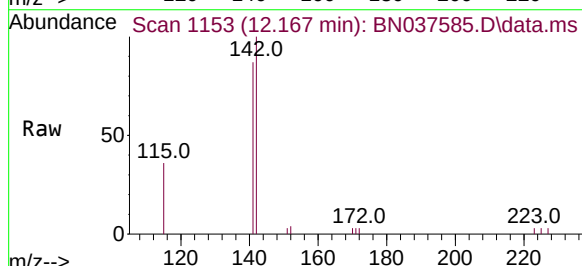
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

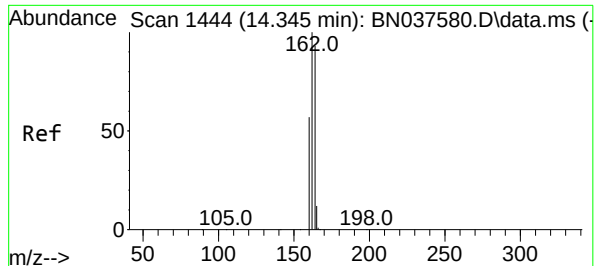
Tgt Ion:152 Resp: 2611
Ion Ratio Lower Upper
152 100
151 21.5 17.3 25.9



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

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

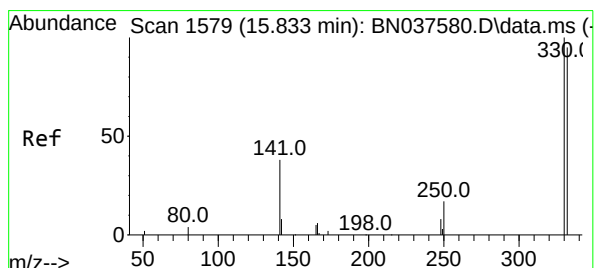
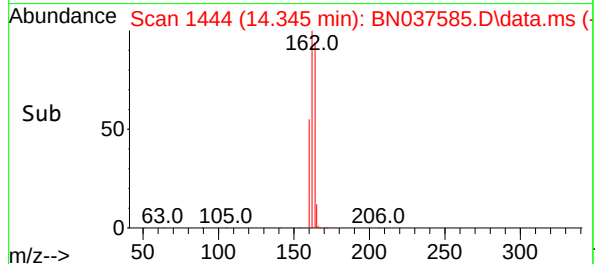
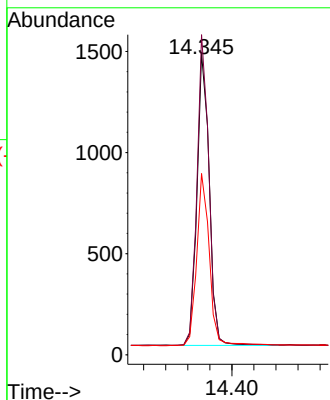
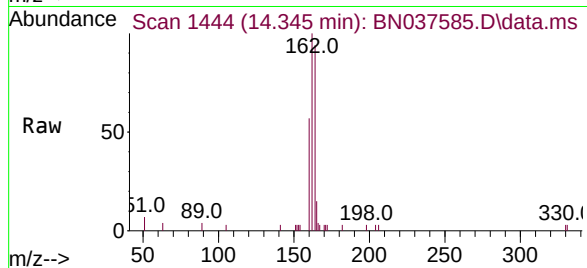




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

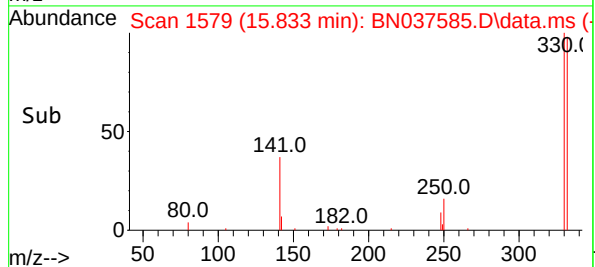
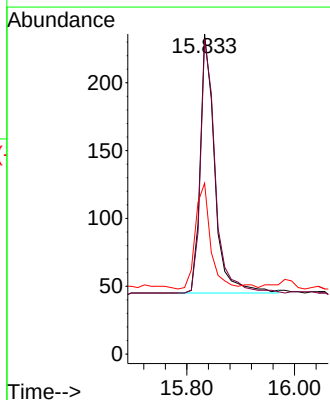
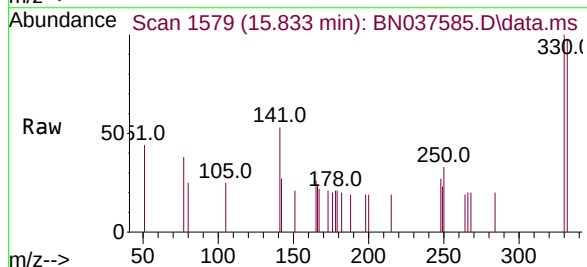
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

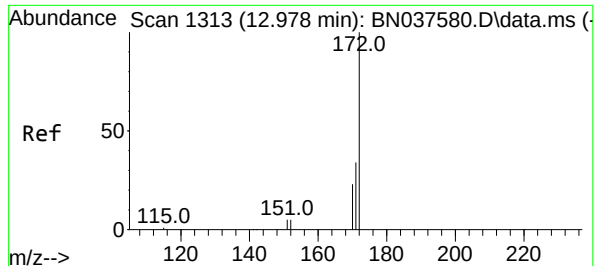
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.2	85.5	128.3
160	60.1	49.5	74.3



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

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

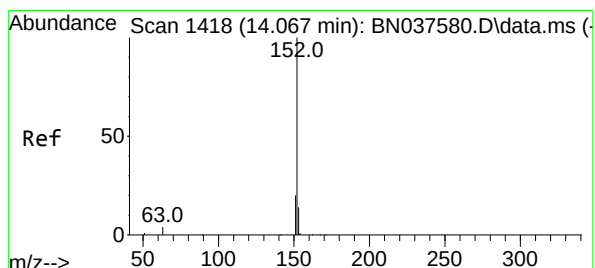
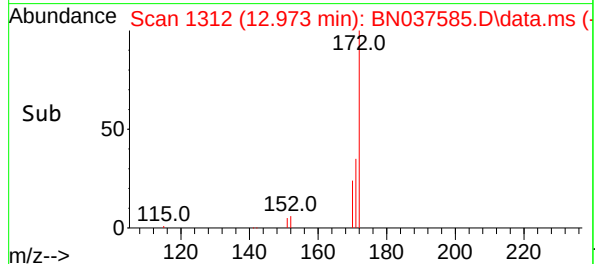
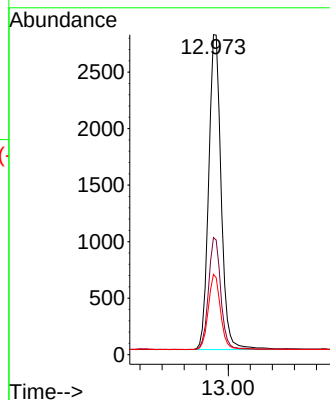
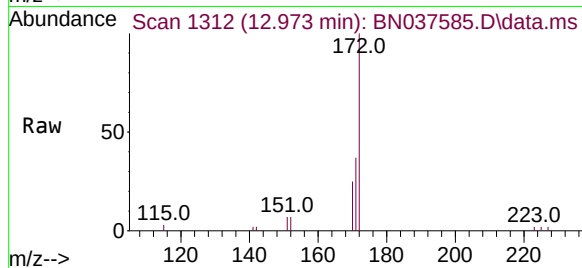




#15
2-Fluorobiphenyl
Concen: 0.443 ng
RT: 12.973 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

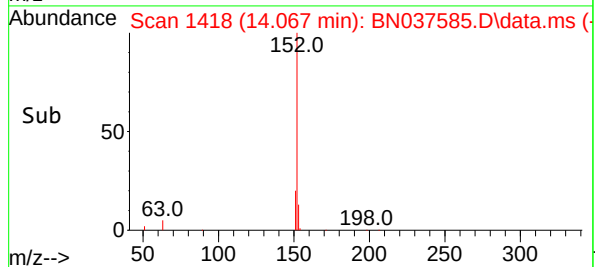
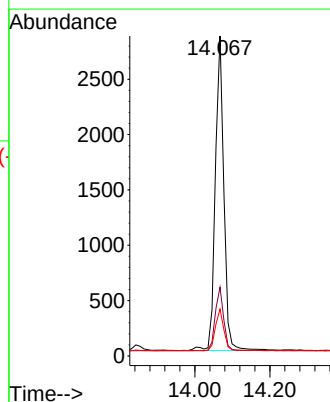
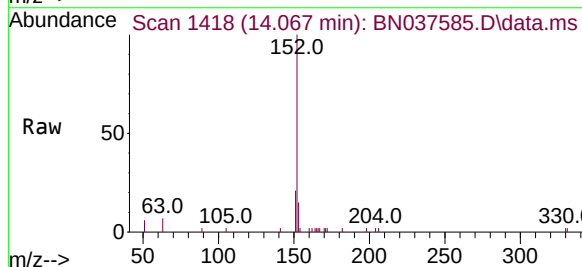
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

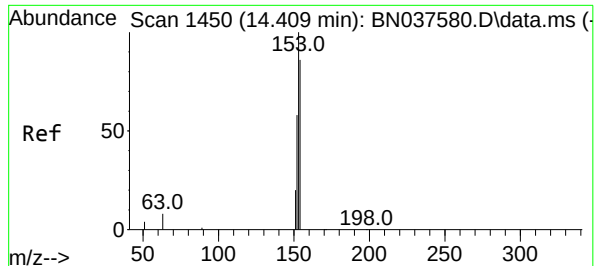
Tgt Ion:	172	Resp:	5746
Ion Ratio	Lower	Upper	
172	100		
171	36.6	28.2	42.4
170	25.1	19.2	28.8



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

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





#17

Acenaphthene

Concen: 0.405 ng

RT: 14.409 min Scan# 1450

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

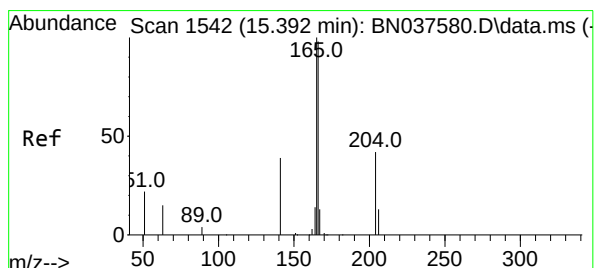
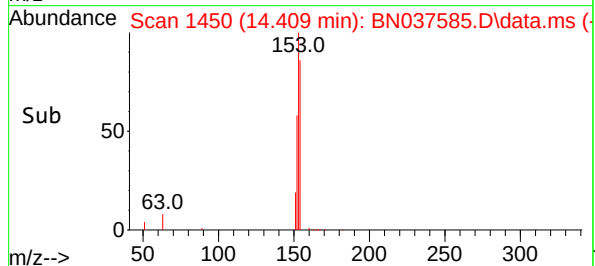
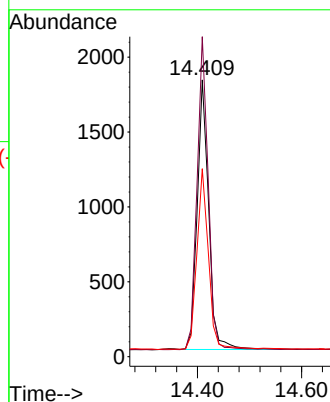
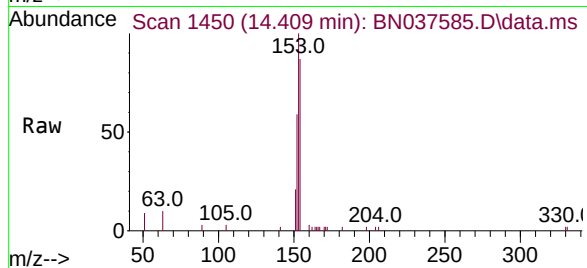
Tgt Ion:154 Resp: 2768

Ion Ratio Lower Upper

154 100

153 112.4 90.6 135.8

152 67.8 54.9 82.3



#18

Fluorene

Concen: 0.402 ng

RT: 15.393 min Scan# 1542

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

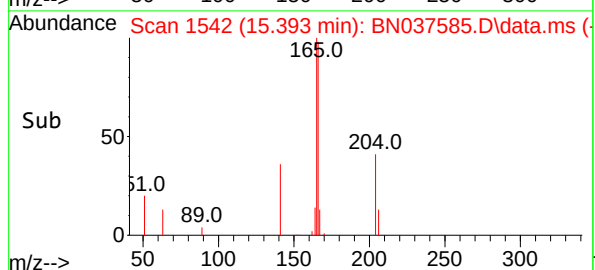
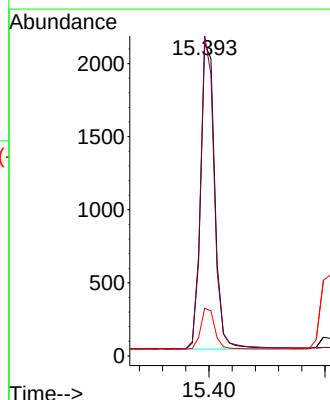
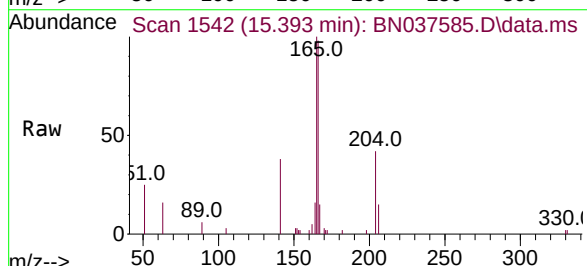
Tgt Ion:166 Resp: 3592

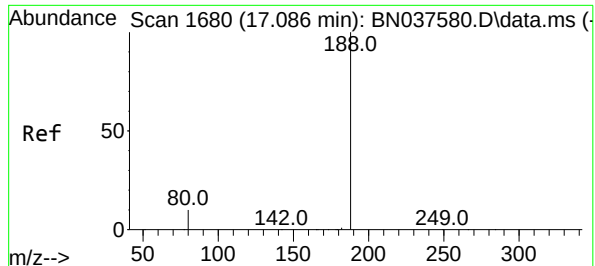
Ion Ratio Lower Upper

166 100

165 100.0 78.9 118.3

167 14.0 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

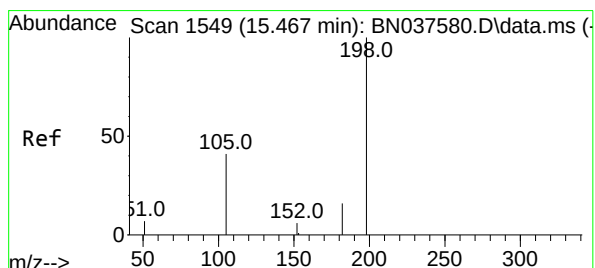
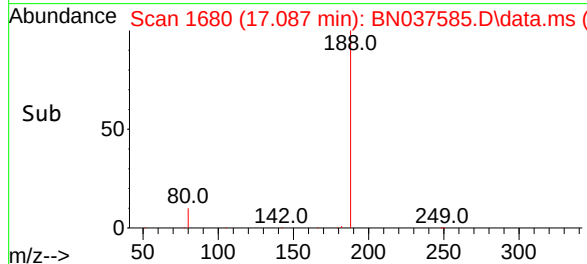
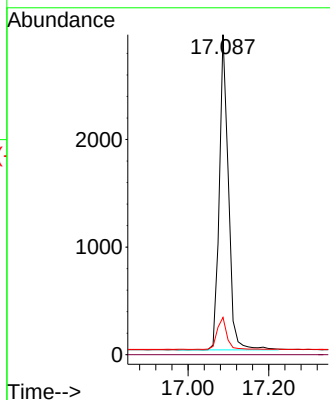
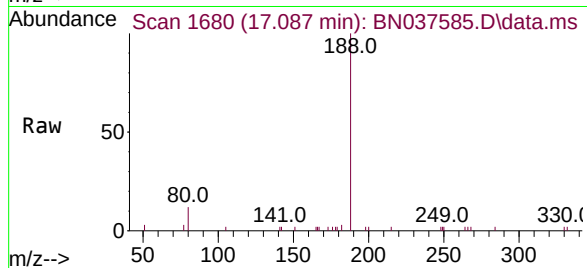
Tgt Ion:188 Resp: 4564

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.6 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

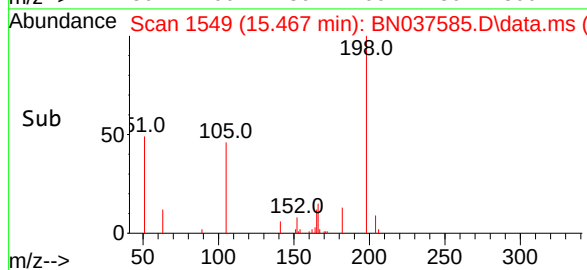
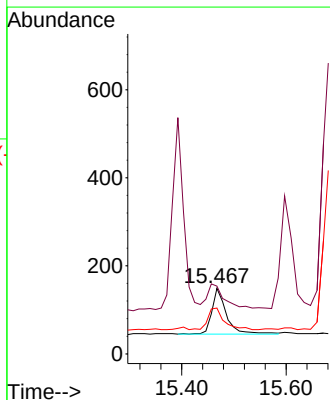
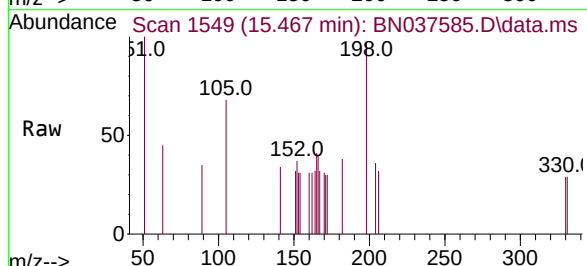
Tgt Ion:198 Resp: 209

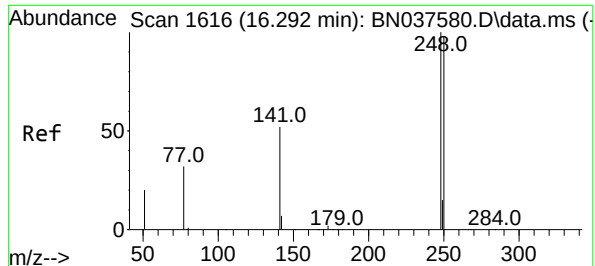
Ion Ratio Lower Upper

198 100

51 103.4 81.0 121.6

105 69.8 52.5 78.7

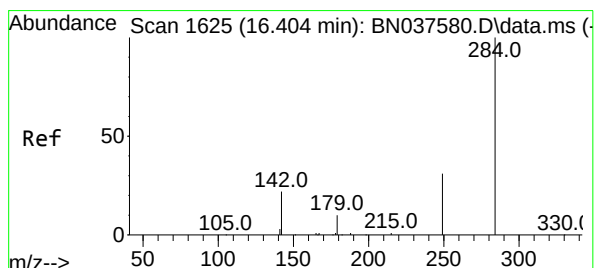
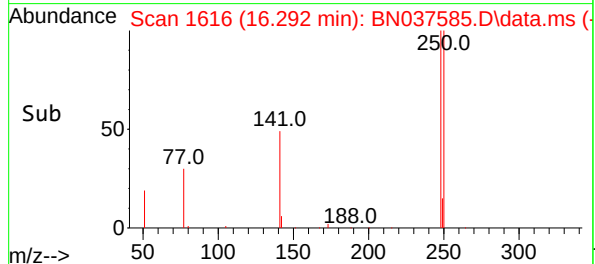
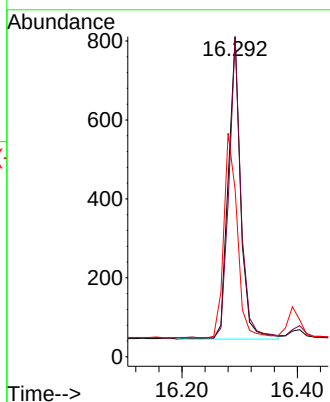
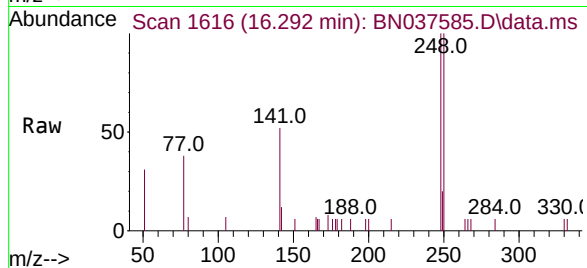




#21
4-Bromophenyl-phenylether
Concen: 0.400 ng
RT: 16.292 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

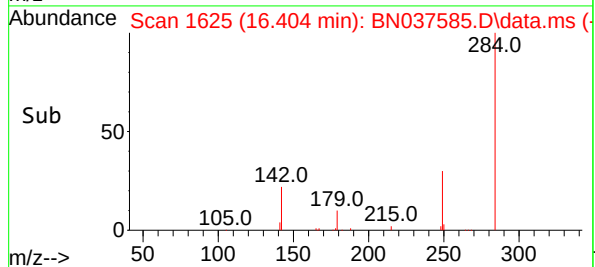
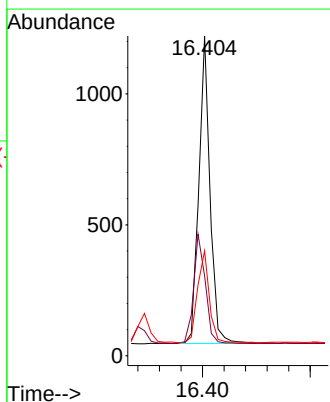
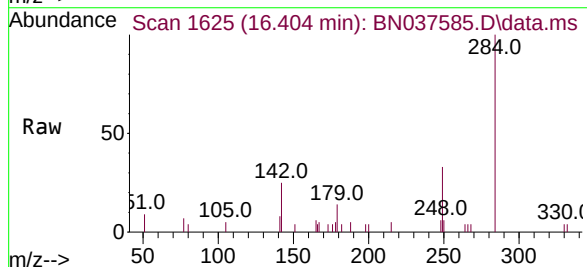
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

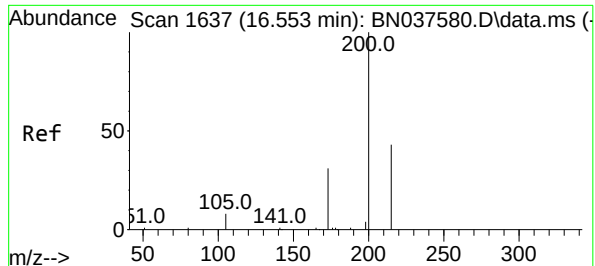
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.0	78.6	118.0
141	52.2	43.7	65.5



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

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





#23

Atrazine

Concen: 0.420 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

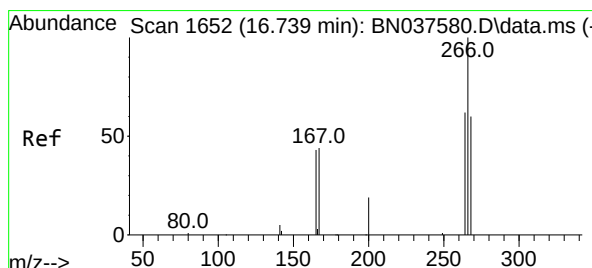
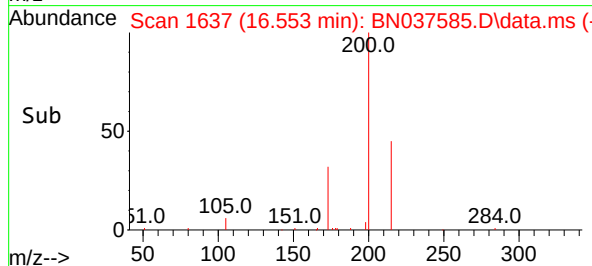
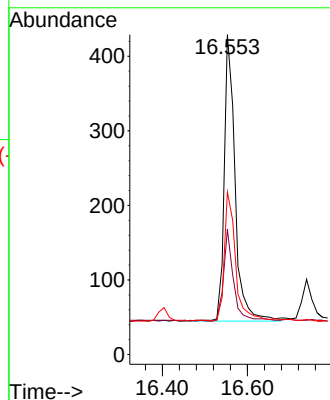
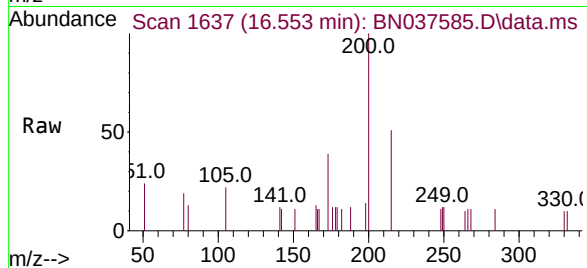
Tgt Ion:200 Resp: 681

Ion Ratio Lower Upper

200 100

173 39.2 31.0 46.4

215 50.8 39.4 59.0



#24

Pentachlorophenol

Concen: 0.339 ng

RT: 16.739 min Scan# 1652

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

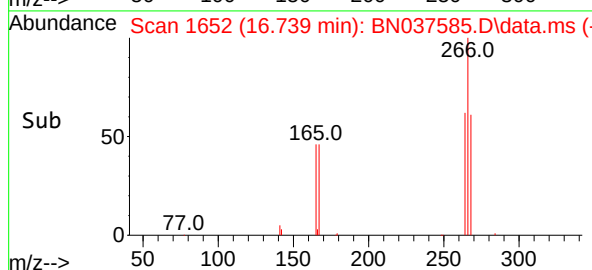
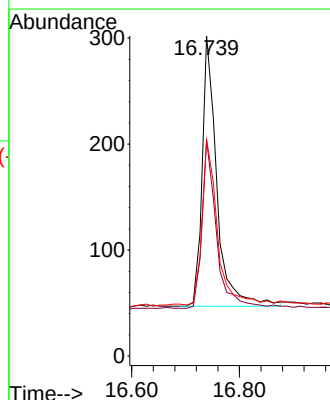
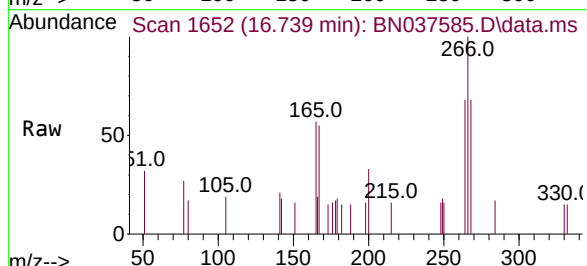
Tgt Ion:266 Resp: 484

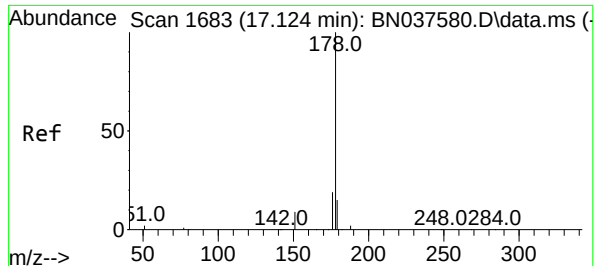
Ion Ratio Lower Upper

266 100

264 61.8 49.6 74.4

268 67.4 49.2 73.8





#25

Phenanthrene

Concen: 0.404 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

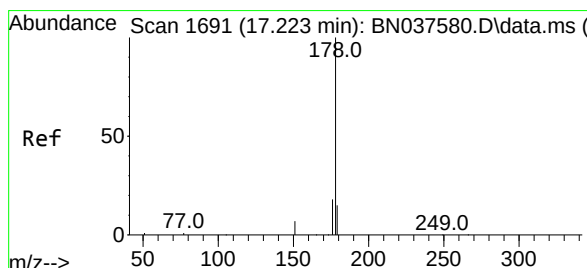
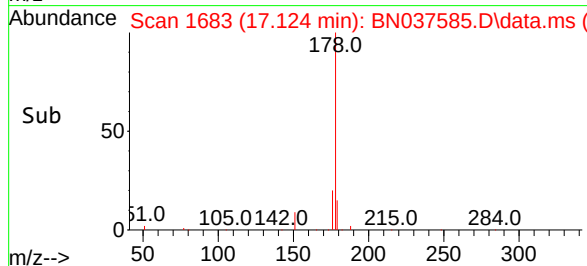
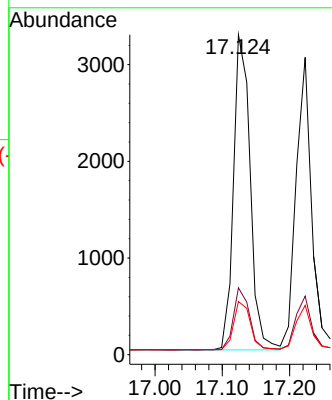
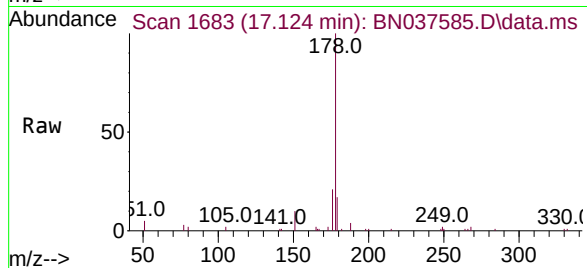
Tgt Ion:178 Resp: 5612

Ion Ratio Lower Upper

178 100

176 19.0 15.0 22.6

179 15.3 12.3 18.5



#26

Anthracene

Concen: 0.402 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

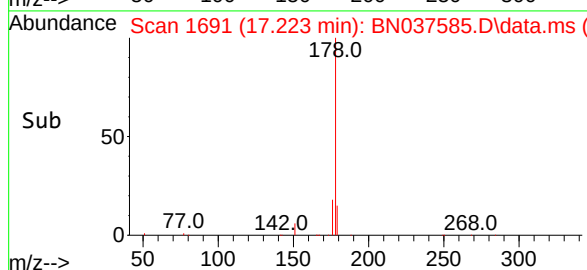
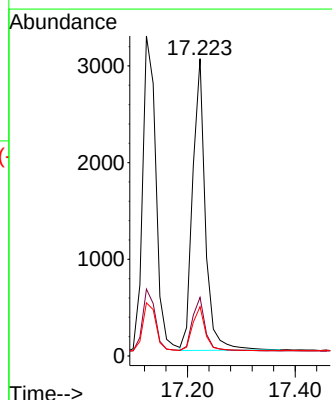
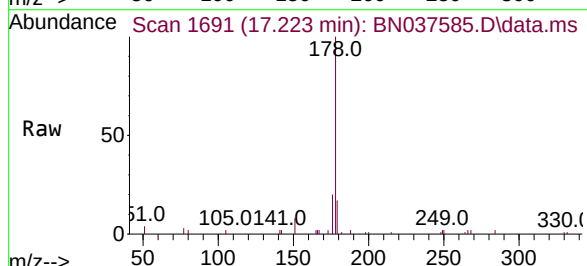
Tgt Ion:178 Resp: 4939

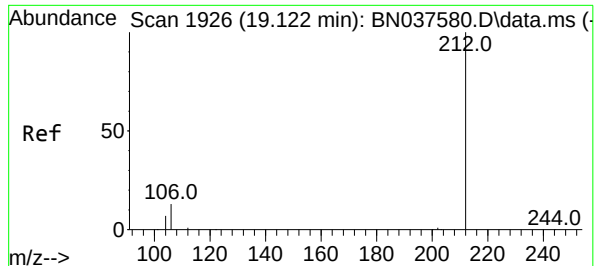
Ion Ratio Lower Upper

178 100

176 19.0 14.7 22.1

179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.405 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

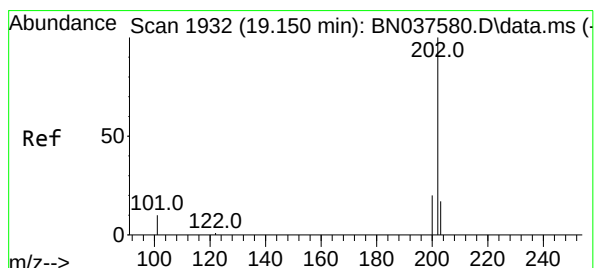
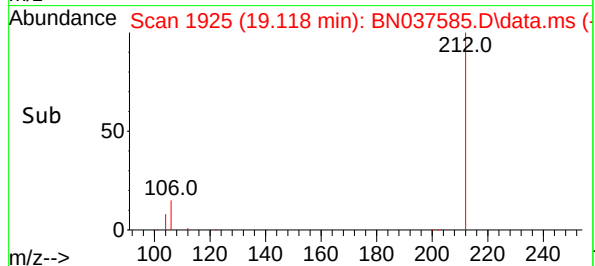
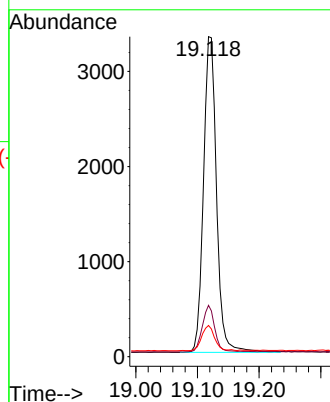
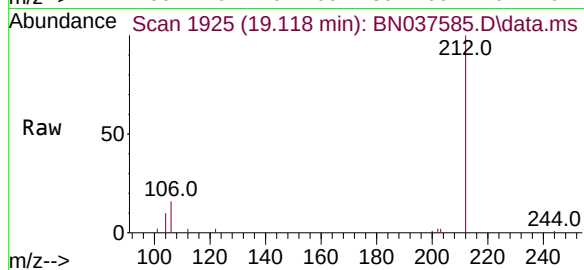
Tgt Ion:212 Resp: 4866

Ion Ratio Lower Upper

212 100

106 14.3 11.5 17.3

104 7.7 6.6 9.8



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

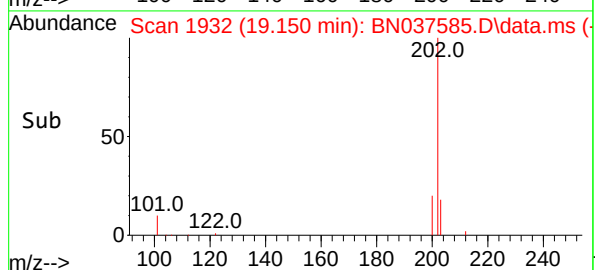
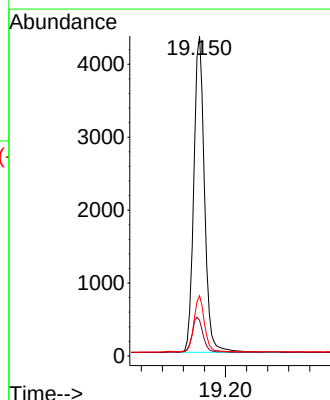
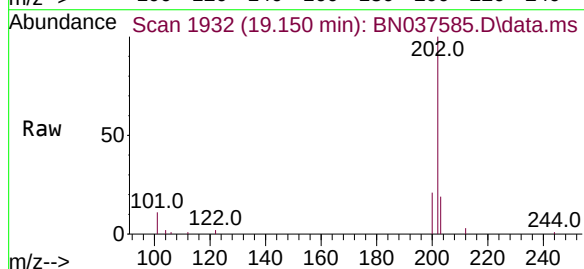
Tgt Ion:202 Resp: 6097

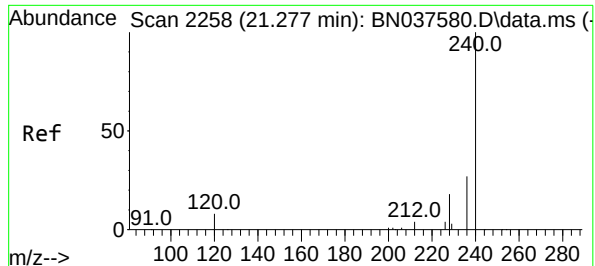
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

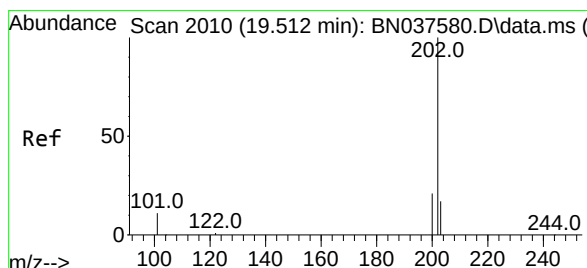
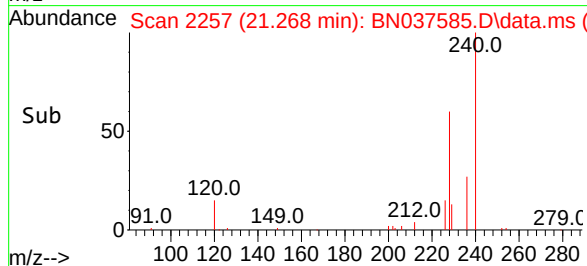
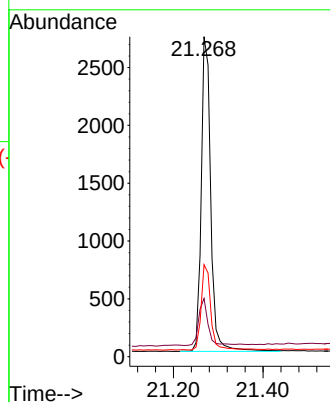
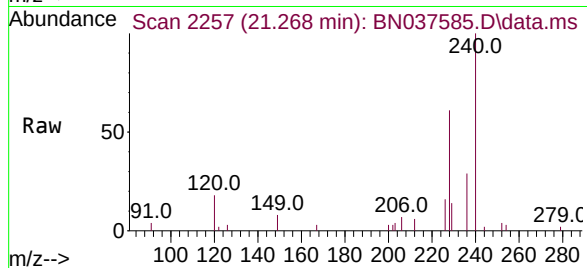
Tgt Ion:240 Resp: 4001

Ion Ratio Lower Upper

240 100

120 18.2 8.9 13.3#

236 28.8 22.6 33.8



#30

Pyrene

Concen: 0.396 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

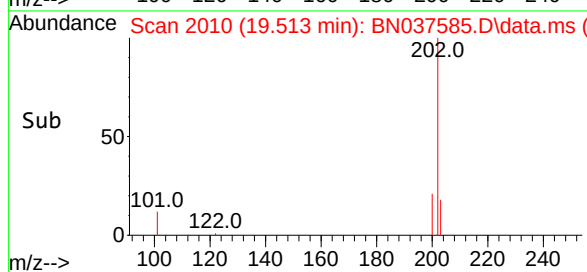
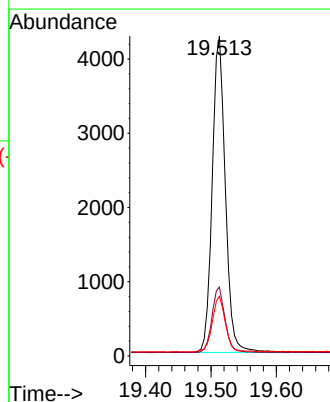
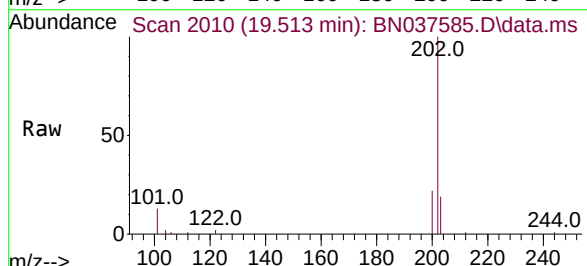
Tgt Ion:202 Resp: 5925

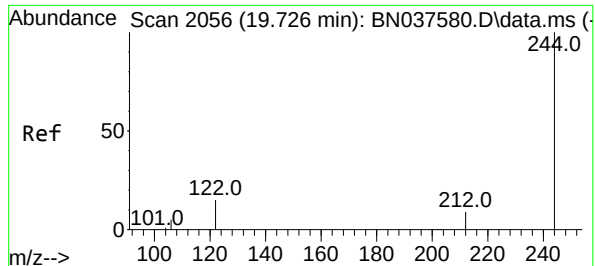
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.7 14.3 21.5

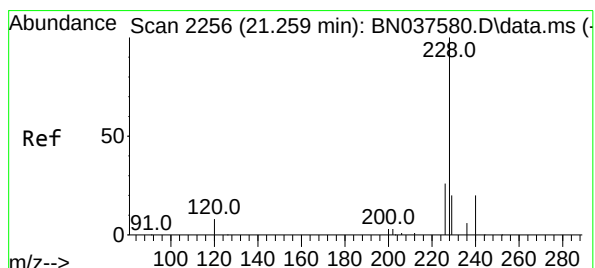
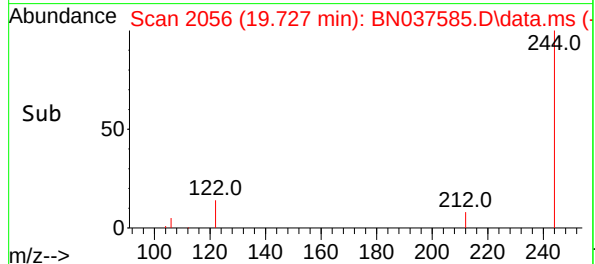
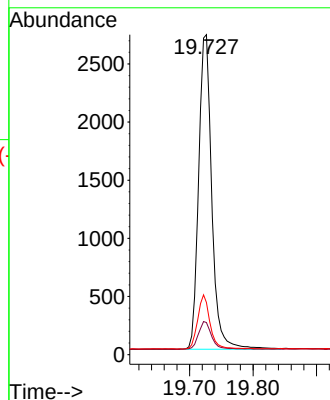
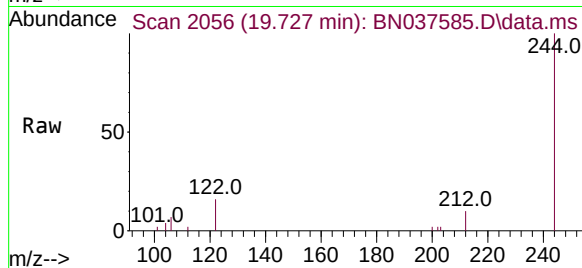




#31
Terphenyl-d14
Concen: 0.472 ng
RT: 19.727 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN037585.D
Acq: 12 Aug 2025 20:42

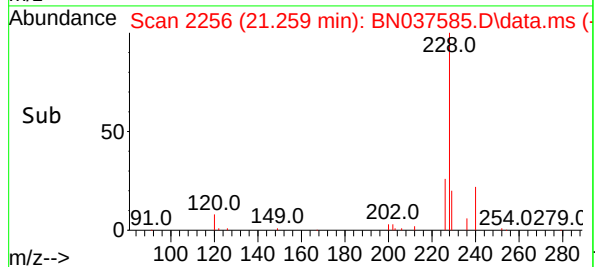
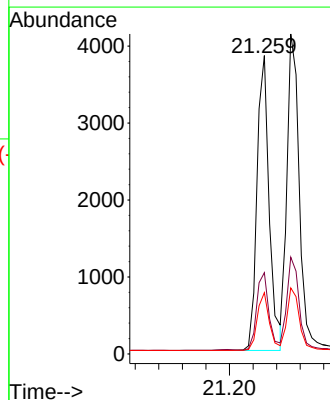
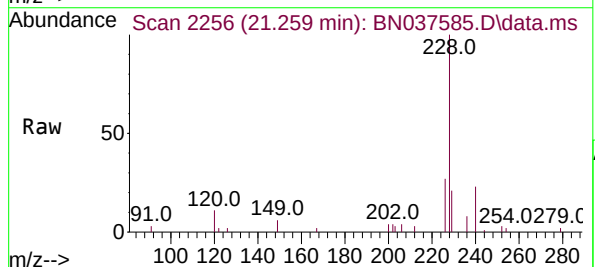
Instrument :
BNA_N
ClientSampleId :
ICVBN081225

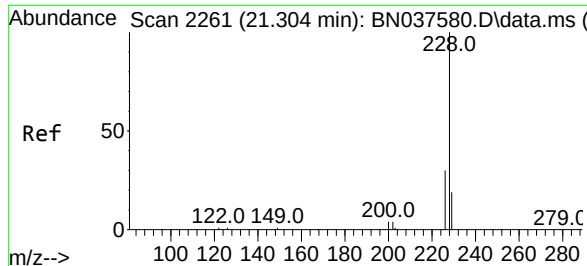
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.0	8.2	12.2
122	16.3	13.2	19.8



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

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





#33

Chrysene

Concen: 0.405 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

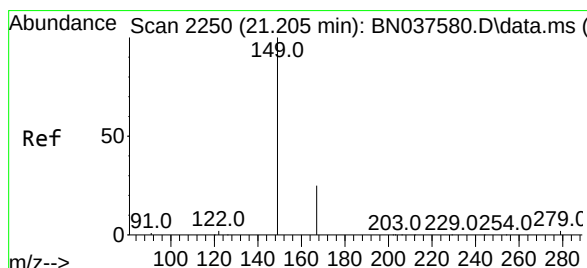
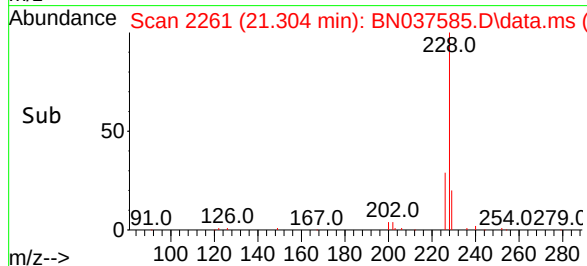
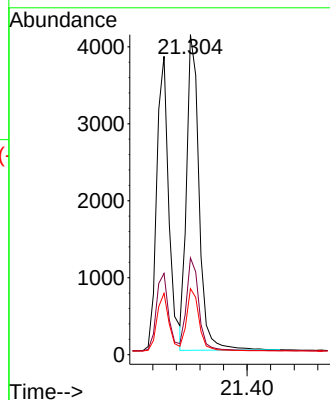
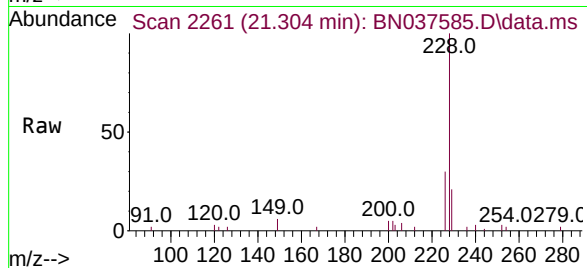
Tgt Ion:228 Resp: 6035

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 20.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.418 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

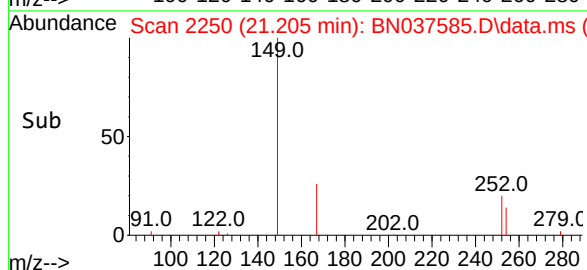
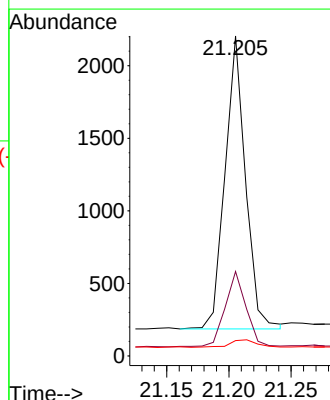
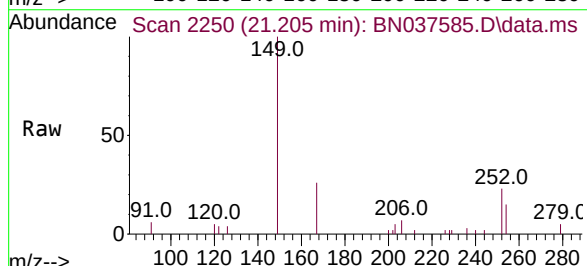
Tgt Ion:149 Resp: 2306

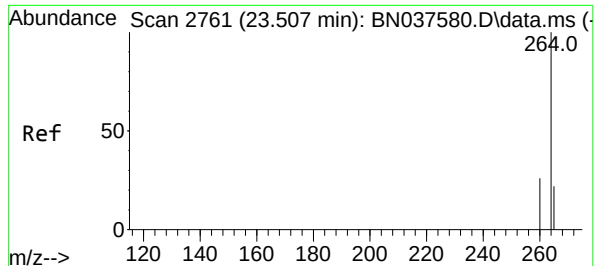
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.3 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.511 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037585.D

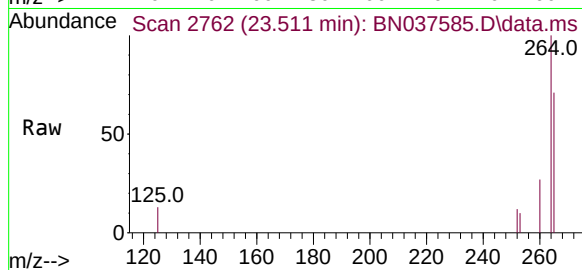
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



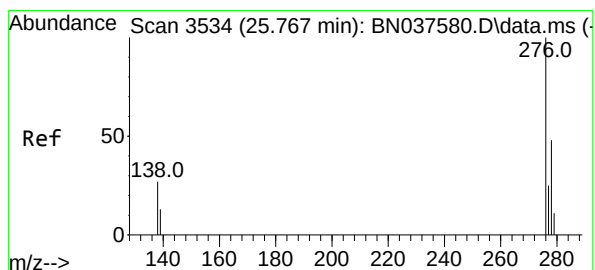
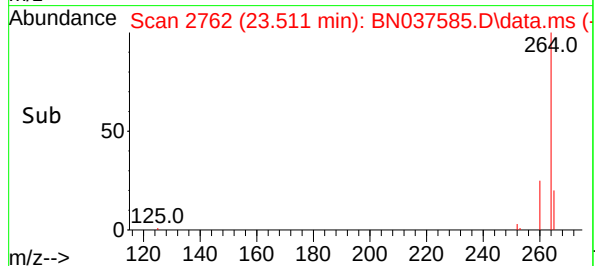
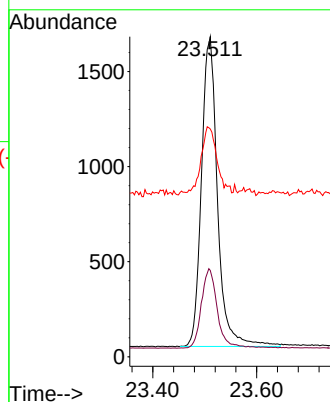
Tgt Ion:264 Resp: 3490

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 71.2 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.410 ng

RT: 25.765 min Scan# 3533

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

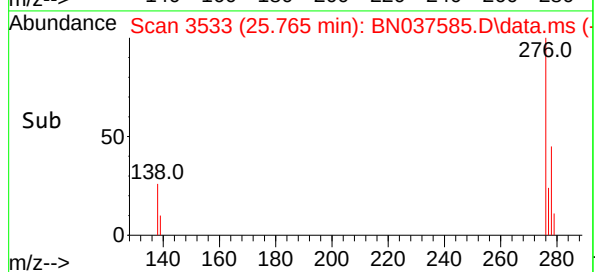
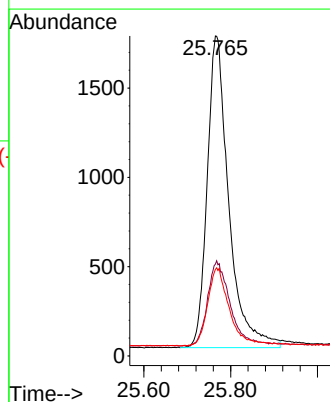
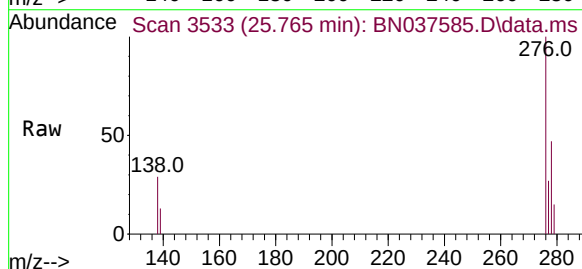
Tgt Ion:276 Resp: 6028

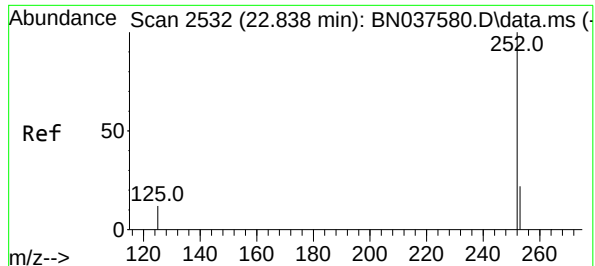
Ion Ratio Lower Upper

276 100

138 28.3 23.3 34.9

277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.409 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

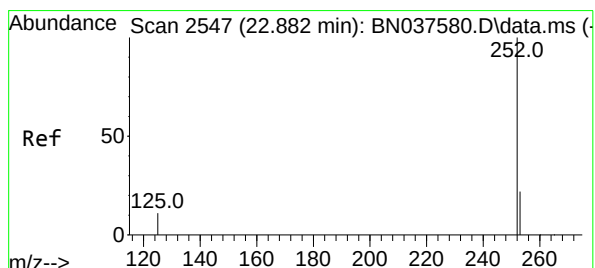
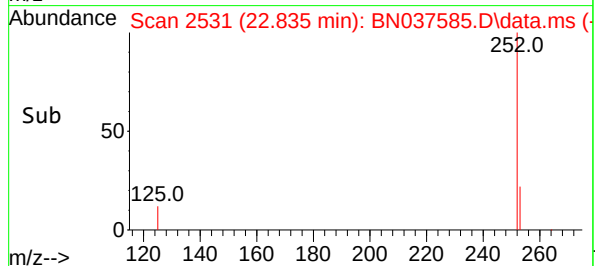
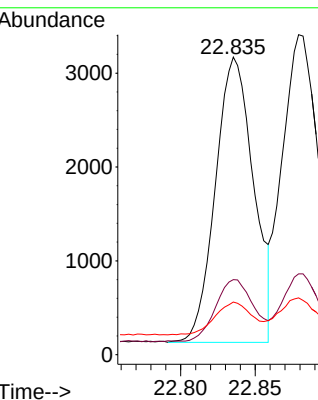
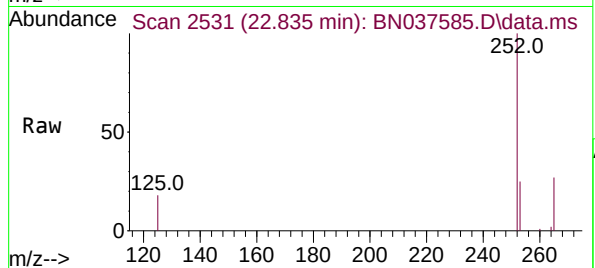
Tgt Ion:252 Resp: 5410

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

125 17.7 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

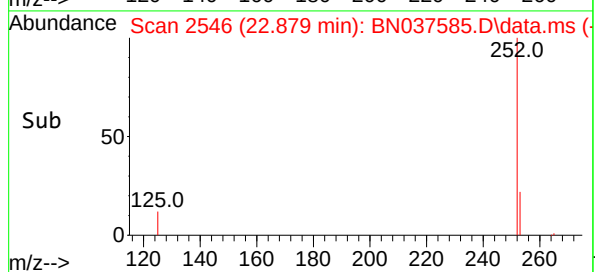
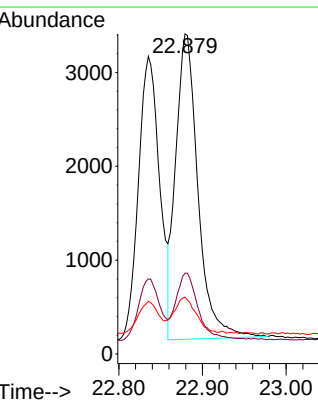
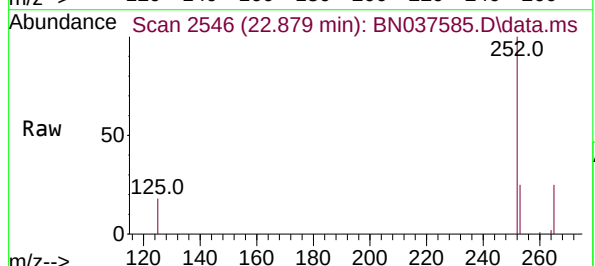
Tgt Ion:252 Resp: 6026

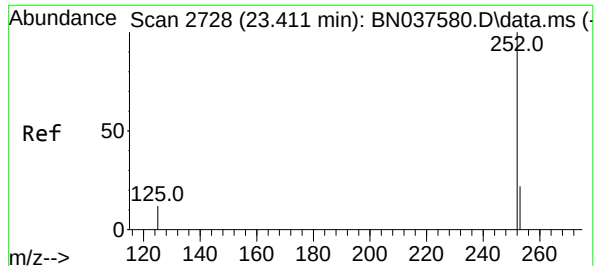
Ion Ratio Lower Upper

252 100

253 25.2 19.9 29.9

125 17.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225

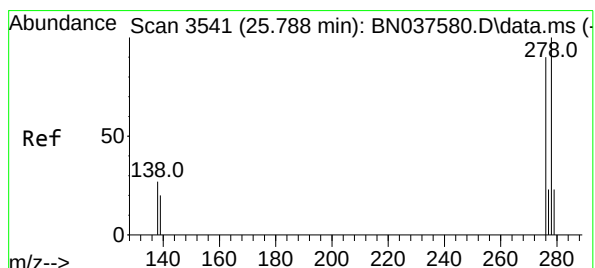
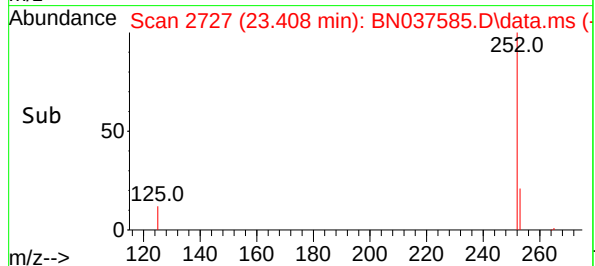
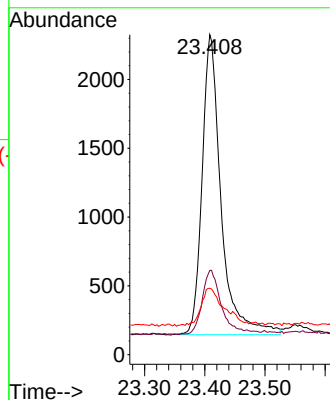
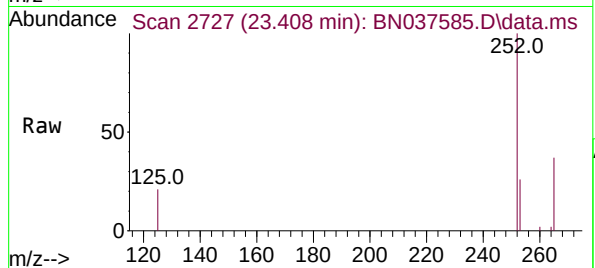
Tgt Ion:252 Resp: 4761

Ion Ratio Lower Upper

252 100

253 26.4 21.6 32.4

125 20.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.401 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

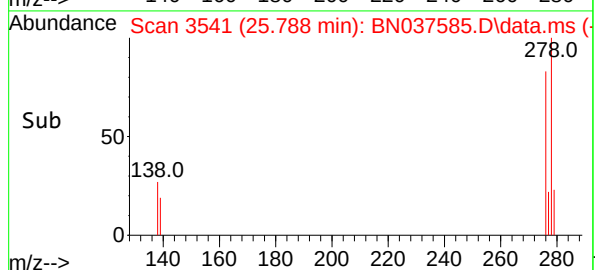
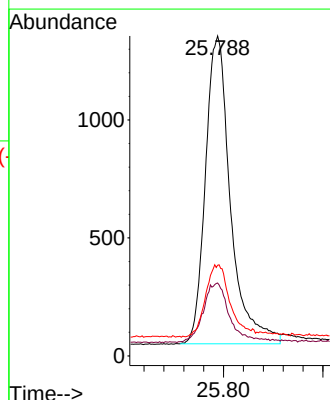
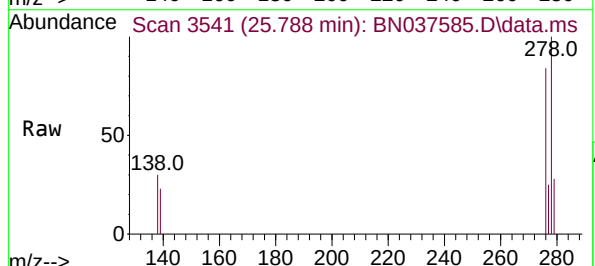
Tgt Ion:278 Resp: 4571

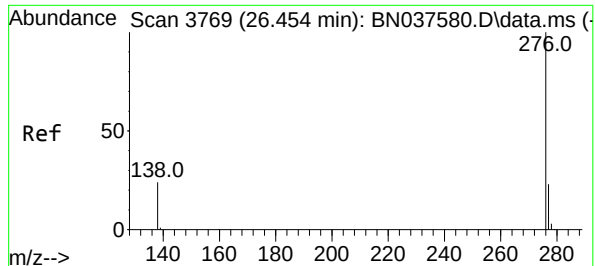
Ion Ratio Lower Upper

278 100

139 22.8 18.3 27.5

279 28.3 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.407 ng

RT: 26.458 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037585.D

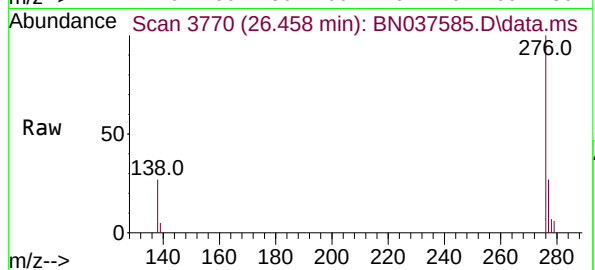
Acq: 12 Aug 2025 20:42

Instrument :

BNA_N

ClientSampleId :

ICVBN081225



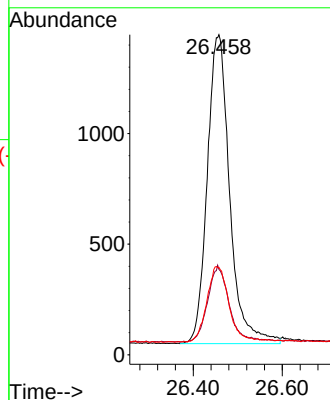
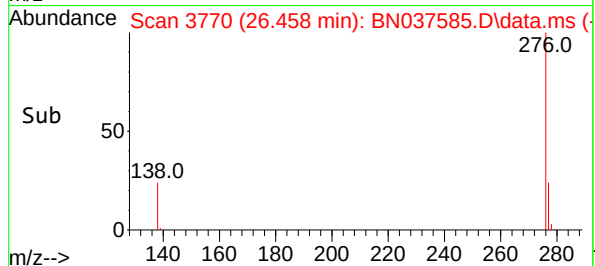
Tgt Ion:276 Resp: 4888

Ion Ratio Lower Upper

276 100

277 26.7 21.0 31.4

138 27.3 21.7 32.5



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

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN081225

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

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

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

(#) = Out of Range

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

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

Instrument :
BNA_N
ClientSampleId :
ICVBN081225

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	88	0.00
2	1,4-Dioxane	0.400	0.502	-25.5#	107	0.00
3	n-Nitrosodimethylamine	0.400	0.466	-16.5	103	0.00
4 S	2-Fluorophenol	0.400	0.426	-6.5	96	0.00
5 S	Phenol-d6	0.400	0.450	-12.5	103	0.00
6	bis(2-Chloroethyl)ether	0.400	0.438	-9.5	97	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	88	0.00
8 S	Nitrobenzene-d5	0.400	0.443	-10.7	104	0.00
9	Naphthalene	0.400	0.415	-3.7	94	0.00
10	Hexachlorobutadiene	0.400	0.429	-7.2	93	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.425	-6.2	100	0.00
12	2-Methylnaphthalene	0.400	0.372	7.0	86	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	88	0.00
14 S	2,4,6-Tribromophenol	0.400	0.365	8.8	90	0.00
15 S	2-Fluorobiphenyl	0.400	0.443	-10.7	99	0.00
16	Acenaphthylene	0.400	0.448	-12.0	104	0.00
17	Acenaphthene	0.400	0.405	-1.3	93	0.00
18	Fluorene	0.400	0.402	-0.5	93	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	91	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.433	-8.2	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.400	0.0	97	0.00
22	Hexachlorobenzene	0.400	0.419	-4.7	95	0.00
23	Atrazine	0.400	0.420	-5.0	104	0.00
24	Pentachlorophenol	0.400	0.339	15.3	85	0.00
25	Phenanthrene	0.400	0.404	-1.0	95	0.00
26	Anthracene	0.400	0.402	-0.5	99	0.00
27 SURR	Fluoranthene-d10	0.400	0.405	-1.3	101	0.00
28	Fluoranthene	0.400	0.382	4.5	93	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.396	1.0	94	0.00
31 S	Terphenyl-d14	0.400	0.472	-18.0	113	0.00
32	Benzo(a)anthracene	0.400	0.411	-2.7	101	0.00
33	Chrysene	0.400	0.405	-1.3	98	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.418	-4.5	102	0.00
35 I	Perylene-d12	0.400	0.400	0.0	83	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.410	-2.5	89	0.00
37	Benzo(b)fluoranthene	0.400	0.409	-2.2	97	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	87	0.00
39 C	Benzo(a)pyrene	0.400	0.434	-8.5	99	0.00
40	Dibenzo(a,h)anthracene	0.400	0.401	-0.3	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.407	-1.7	93	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2886
 Instrument ID: BNA_N Calibration Date/Time: 08/20/2025 16:57
 Lab File ID: BN037633.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.500		-8.1	20.0
Fluoranthene-d10	1.052	0.958		-8.9	20.0
2-Fluorophenol	0.907	0.835		-7.9	20.0
Phenol-d6	1.091	1.002		-8.2	20.0
Nitrobenzene-d5	0.282	0.274		-2.8	20.0
2-Fluorobiphenyl	2.313	2.325		0.5	20.0
2,4,6-Tribromophenol	0.175	0.180		2.9	20.0
Terphenyl-d14	0.823	0.755		-8.3	20.0
1,4-Dioxane	0.383	0.377		-1.6	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
 Data File : BN037633.D
 Acq On : 20 Aug 2025 16:57
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Aug 21 04:56:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

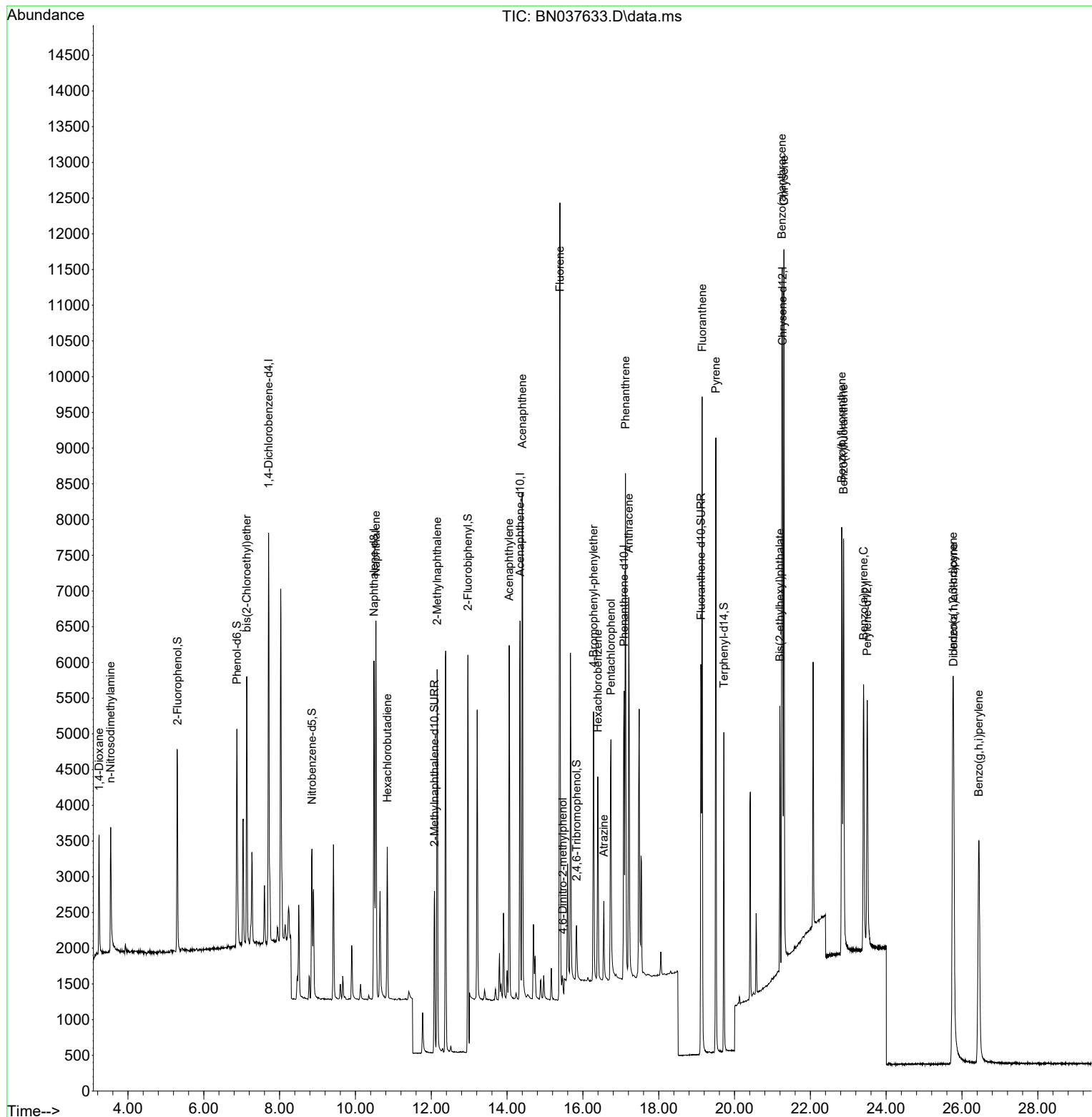
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2754	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	6418	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	3102	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	6405	0.400	ng	# 0.00
29) Chrysene-d12	21.268	240	5848	0.400	ng	# 0.00
35) Perylene-d12	23.502	264	4933	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2300	0.368	ng	0.00
5) Phenol-d6	6.872	99	2760	0.367	ng	0.00
8) Nitrobenzene-d5	8.854	82	1759	0.389	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	3210	0.368	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	558	0.411	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	7213	0.402	ng	-0.01
27) Fluoranthene-d10	19.113	212	6134	0.364	ng	0.00
31) Terphenyl-d14	19.717	244	4414	0.367	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	1037	0.394	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.543	42	1327	0.394	ng	99
6) bis(2-Chloroethyl)ether	7.132	93	2700	0.399	ng	96
9) Naphthalene	10.541	128	6826	0.399	ng	100
10) Hexachlorobutadiene	10.840	225	1701	0.407	ng	# 99
12) 2-Methylnaphthalene	12.156	142	4074	0.380	ng	100
16) Acenaphthylene	14.056	152	5508	0.396	ng	100
17) Acenaphthene	14.398	154	3711	0.392	ng	100
18) Fluorene	15.392	166	4875	0.394	ng	98
20) 4,6-Dinitro-2-methylph...	15.467	198	234	0.382	ng	# 85
21) 4-Bromophenyl-phenylether	16.280	248	1537	0.382	ng	# 89
22) Hexachlorobenzene	16.391	284	2350	0.412	ng	97
23) Atrazine	16.553	200	954	0.419	ng	92
24) Pentachlorophenol	16.739	266	2004	1.000	ng	97
25) Phenanthrene	17.124	178	7486	0.384	ng	99
26) Anthracene	17.210	178	6431	0.373	ng	100
28) Fluoranthene	19.146	202	8465	0.378	ng	99
30) Pyrene	19.508	202	8139	0.372	ng	100
32) Benzo(a)anthracene	21.250	228	7419	0.380	ng	99
33) Chrysene	21.304	228	8400	0.386	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	3443	0.427	ng	99
36) Indeno(1,2,3-cd)pyrene	25.759	276	7685	0.370	ng	99
37) Benzo(b)fluoranthene	22.829	252	7623	0.408	ng	100
38) Benzo(k)fluoranthene	22.876	252	7812	0.370	ng	98
39) Benzo(a)pyrene	23.405	252	5881	0.379	ng	99
40) Dibenzo(a,h)anthracene	25.776	278	5887	0.365	ng	99
41) Benzo(g,h,i)perylene	26.443	276	6965	0.410	ng	100

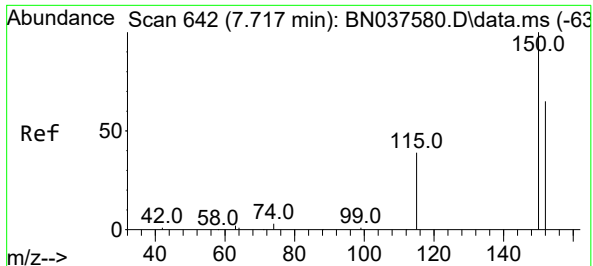
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037633.D
Acq On : 20 Aug 2025 16:57
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Aug 21 04:56:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

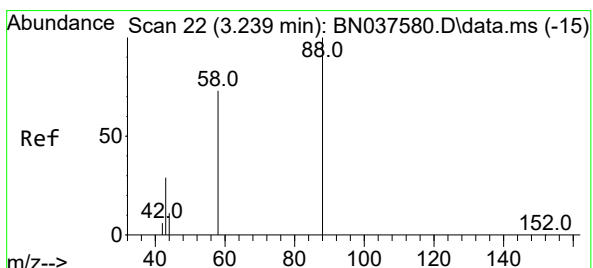
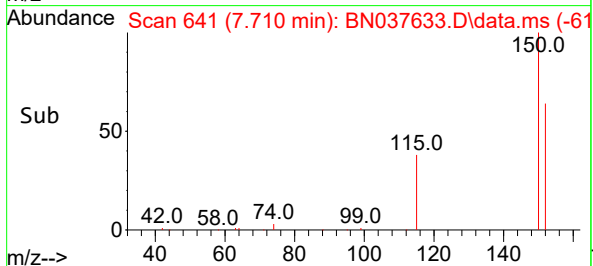
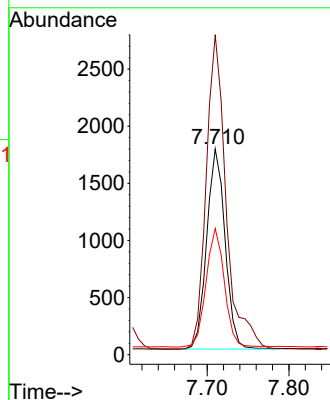
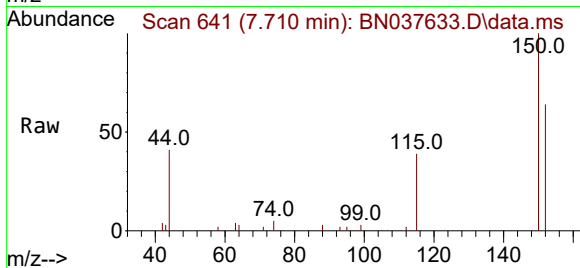




#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.710 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN037633.D
 Acq: 20 Aug 2025 16:57

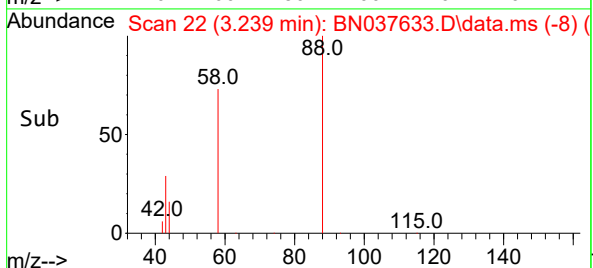
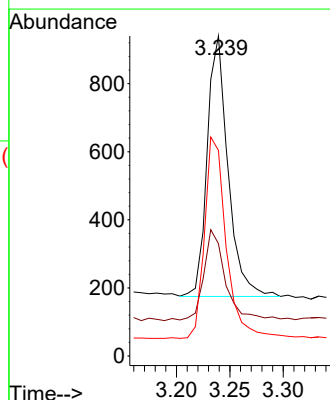
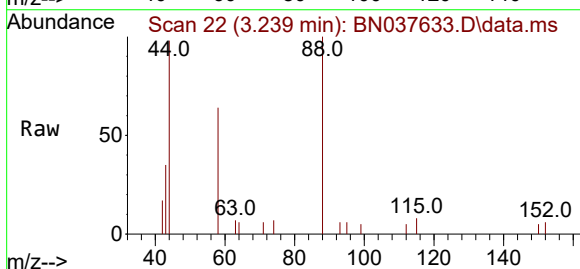
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

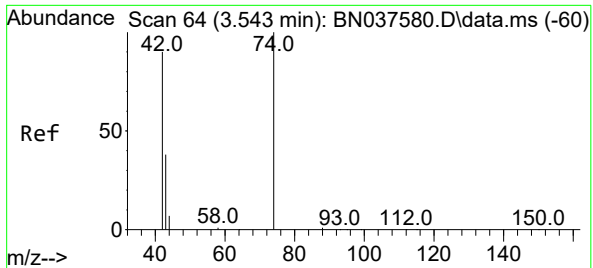
Tgt Ion:152 Resp: 2754
 Ion Ratio Lower Upper
 152 100
 150 155.5 122.2 183.4
 115 61.3 49.8 74.6



#2
 1,4-Dioxane
 Concen: 0.394 ng
 RT: 3.239 min Scan# 22
 Delta R.T. 0.000 min
 Lab File: BN037633.D
 Acq: 20 Aug 2025 16:57

Tgt Ion: 88 Resp: 1037
 Ion Ratio Lower Upper
 88 100
 43 36.9 25.8 38.6
 58 80.8 61.2 91.8

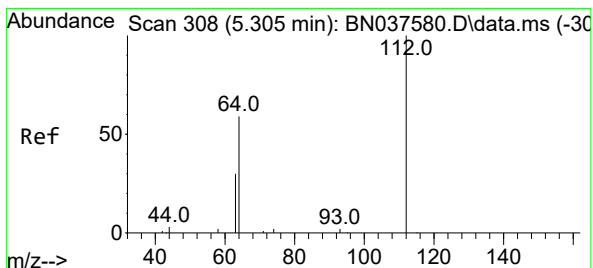
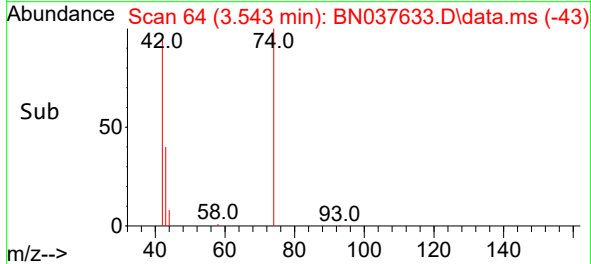
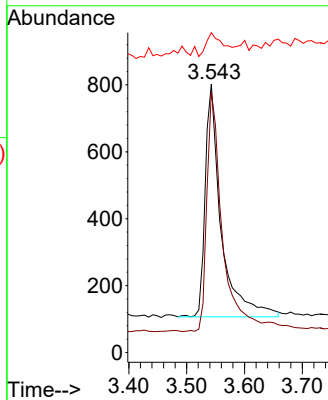
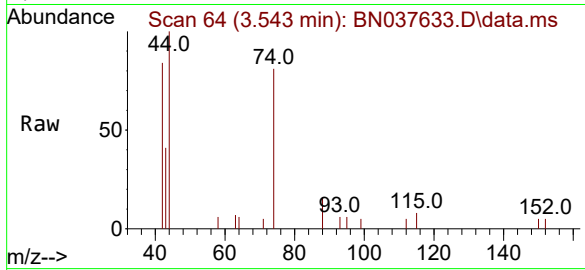




#3
n-Nitrosodimethylamine
Concen: 0.394 ng
RT: 3.543 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

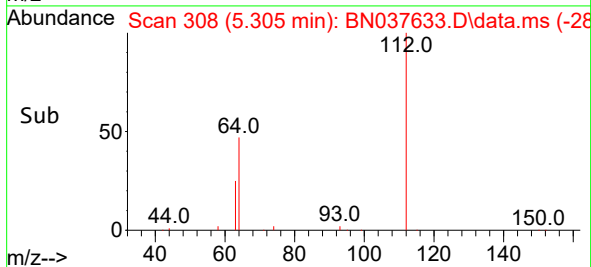
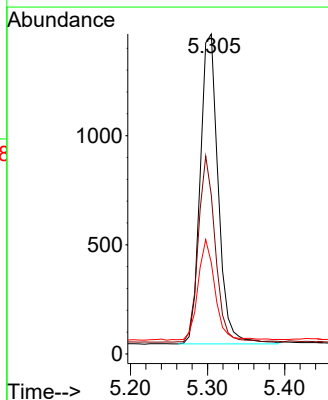
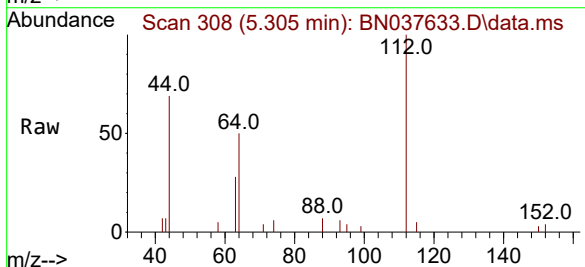
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BNA_N
ClientSampleId :
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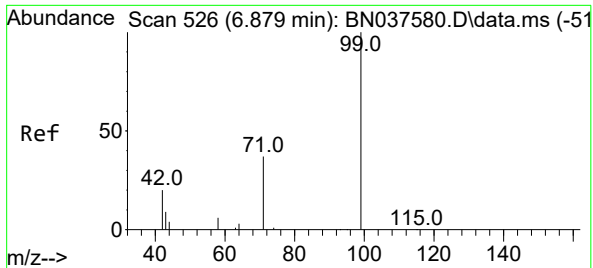
Tgt Ion: 42 Resp: 1327
Ion Ratio Lower Upper
42 100
74 103.2 82.0 123.0
44 10.6 7.9 11.9



#4
2-Fluorophenol
Concen: 0.368 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion: 112 Resp: 2300
Ion Ratio Lower Upper
112 100
64 56.6 44.9 67.3
63 30.1 23.4 35.2

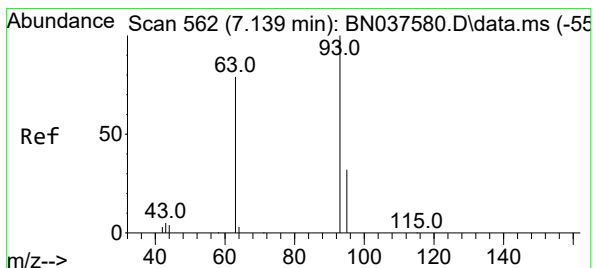
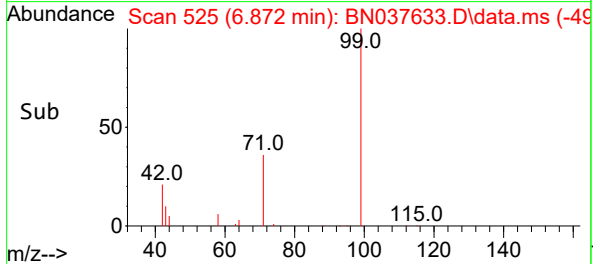
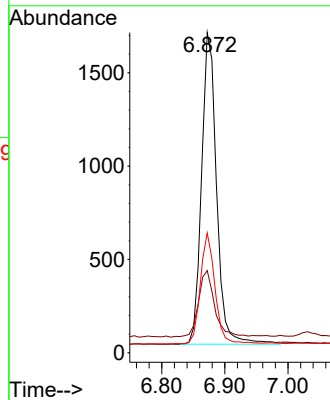
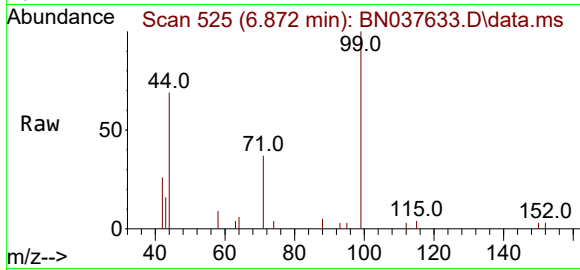




#5
Phenol-d6
Concen: 0.367 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

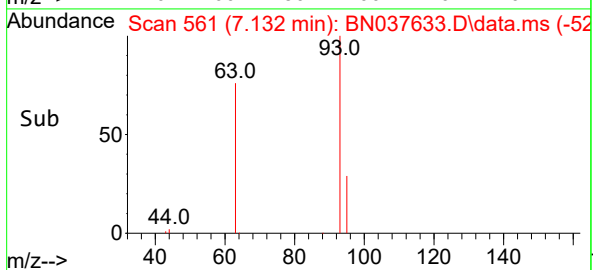
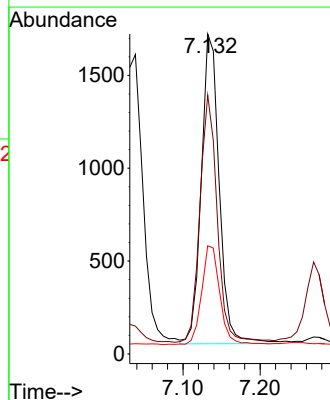
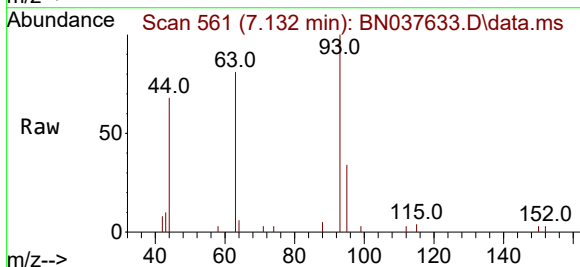
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

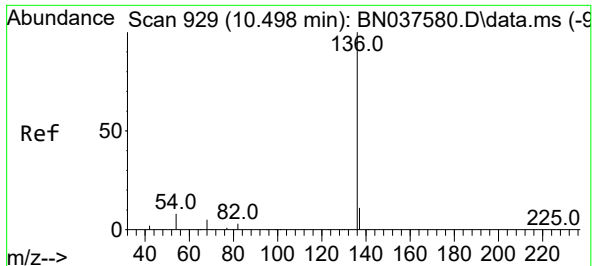
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.2	18.5	27.7
71	34.5	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.399 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.7	58.0	87.0
95	32.4	24.9	37.3

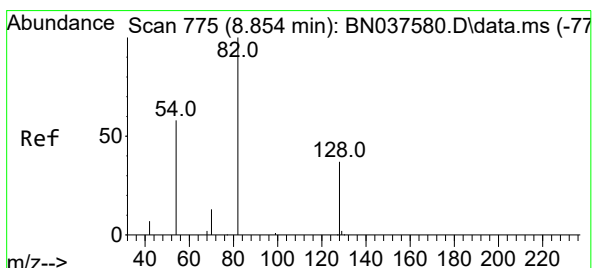
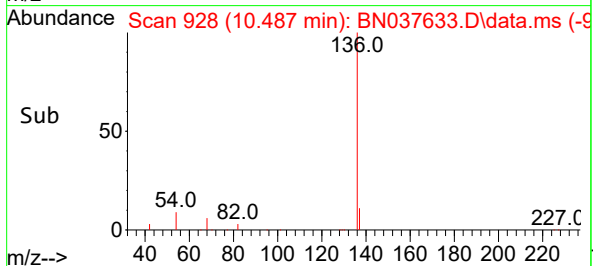
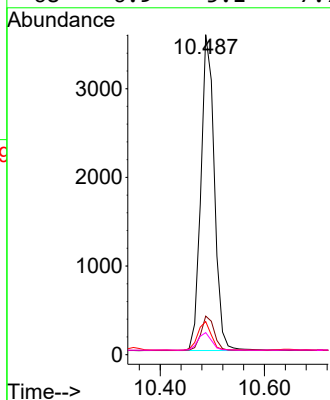
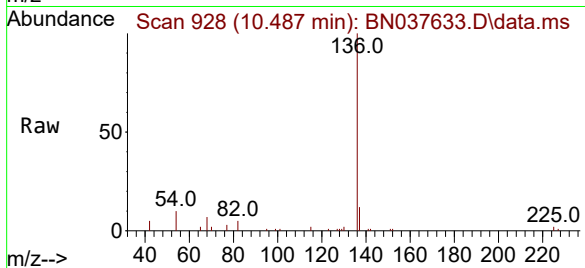




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

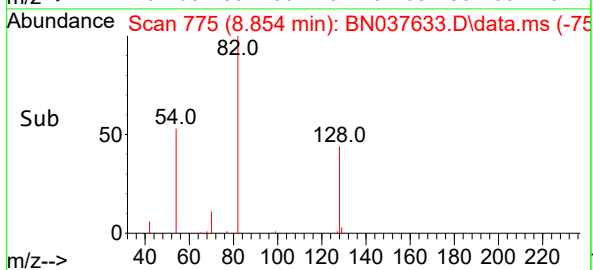
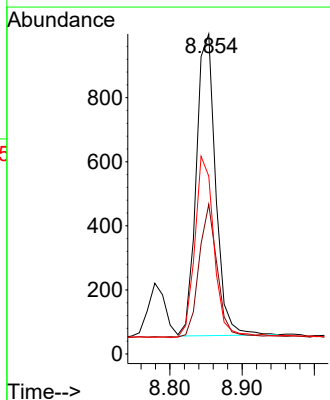
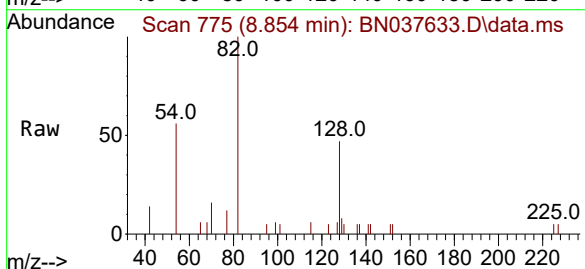
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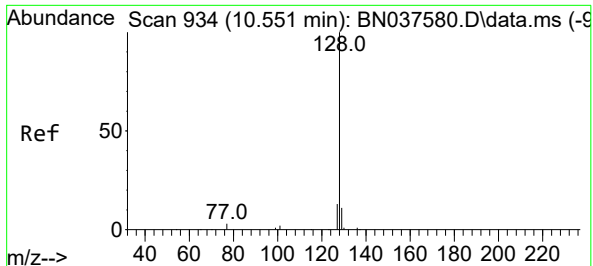
Tgt Ion:	136	Resp:	6418
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.5	14.3
54	10.3	7.3	10.9
68	6.9	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.389 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:	82	Resp:	1759
Ion	Ratio	Lower	Upper
82	100		
128	46.7	32.6	48.8
54	55.6	48.9	73.3

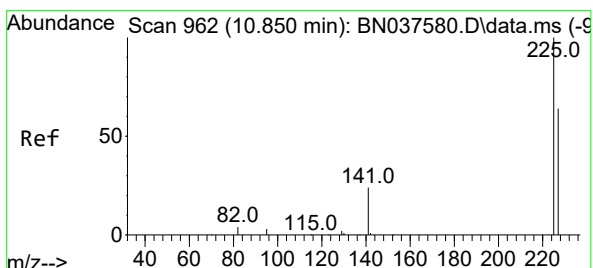
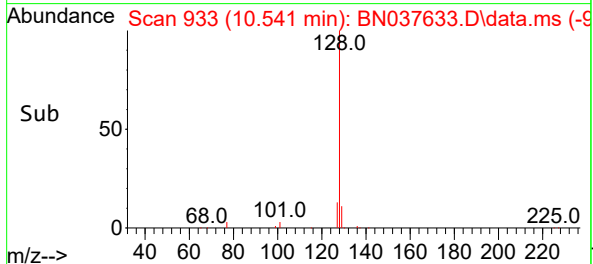
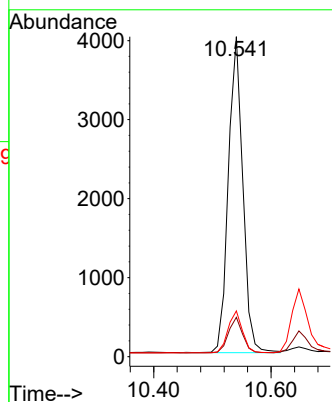
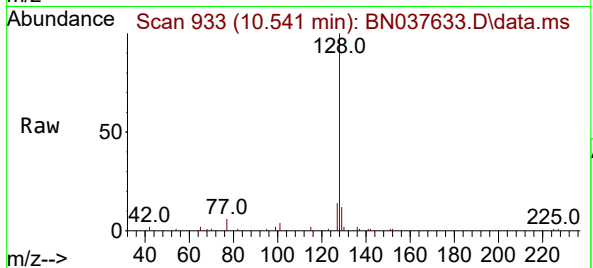




#9
Naphthalene
Concen: 0.399 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

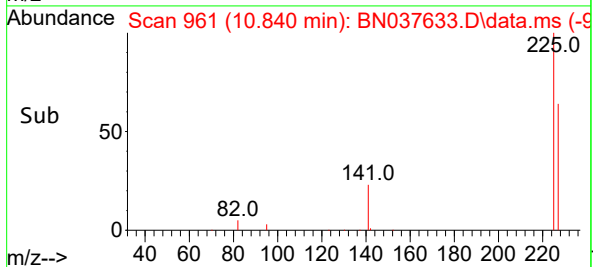
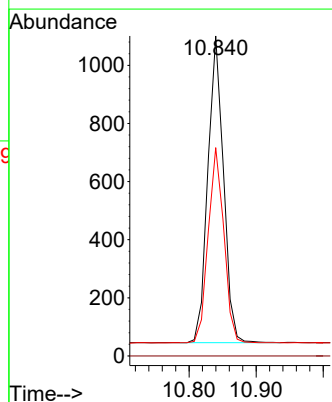
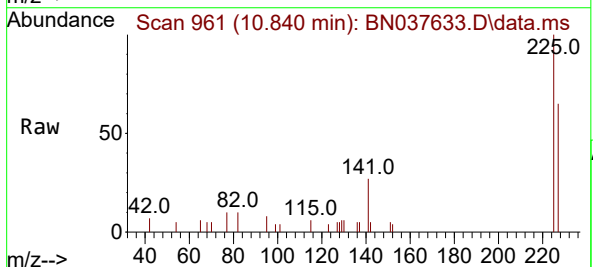
Instrument :
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ClientSampleId :
SSTDCCC0.4

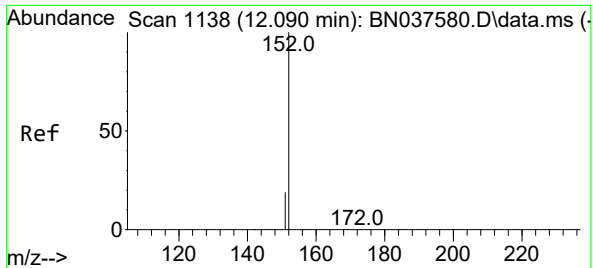
Tgt Ion:128 Resp: 6826
Ion Ratio Lower Upper
128 100
129 12.3 9.8 14.6
127 14.3 11.5 17.3



#10
Hexachlorobutadiene
Concen: 0.407 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:225 Resp: 1701
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.2 50.8 76.2

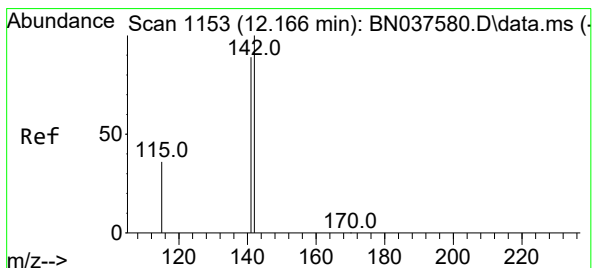
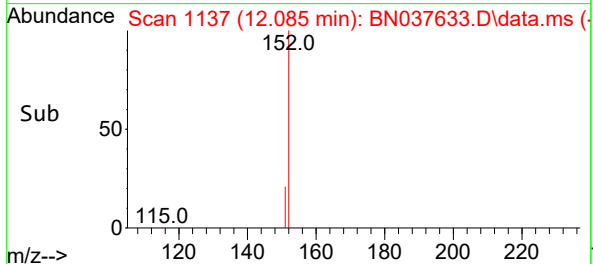
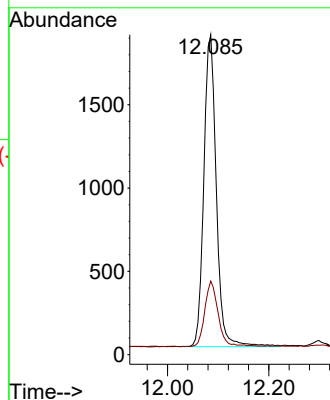
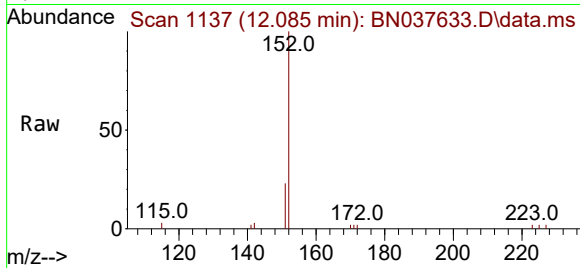




#11
2-Methylnaphthalene-d10
Concen: 0.368 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

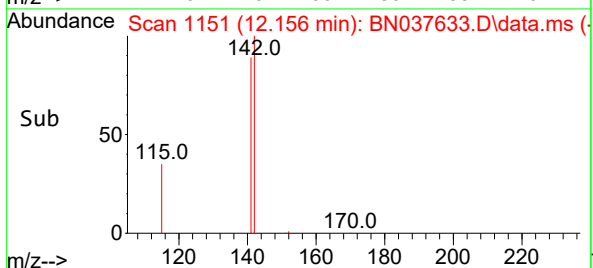
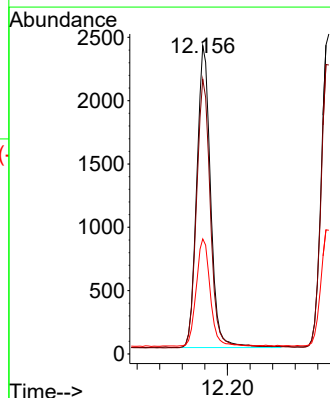
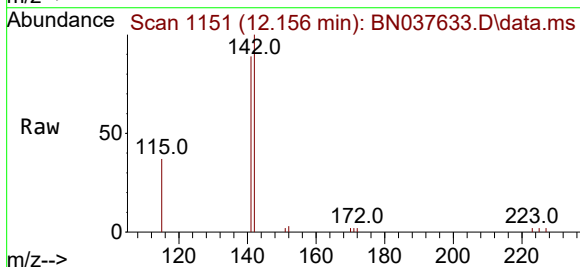
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

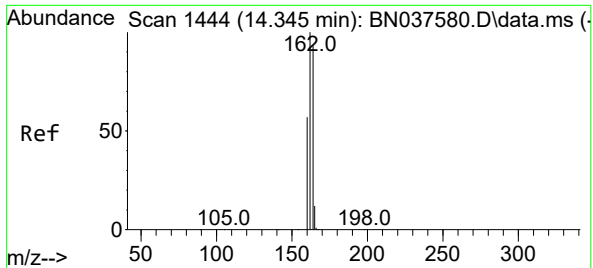
Tgt Ion:152 Resp: 3210
Ion Ratio Lower Upper
152 100
151 22.3 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:142 Resp: 4074
Ion Ratio Lower Upper
142 100
141 89.1 71.4 107.0
115 37.3 30.2 45.4

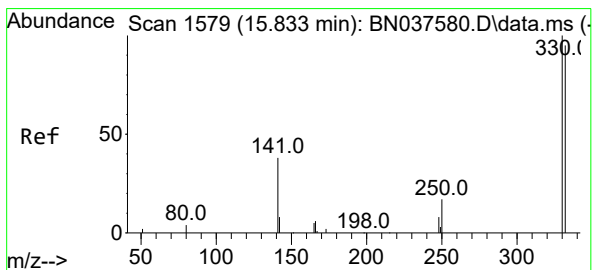
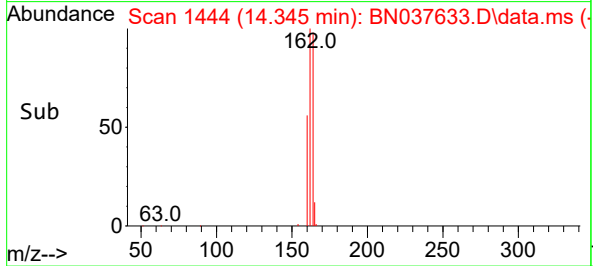
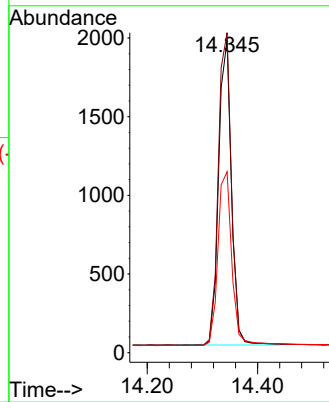
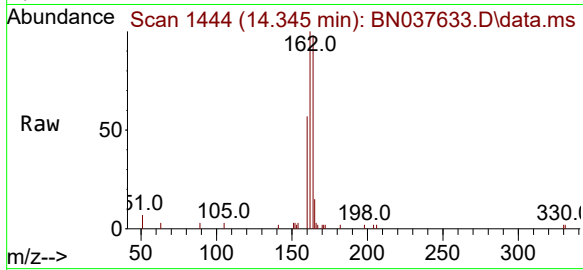




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

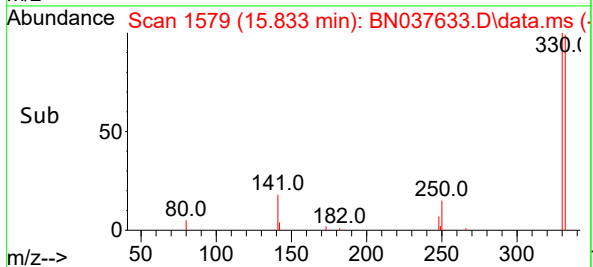
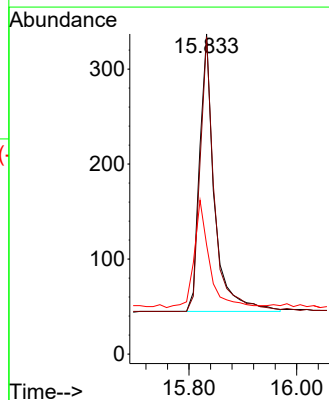
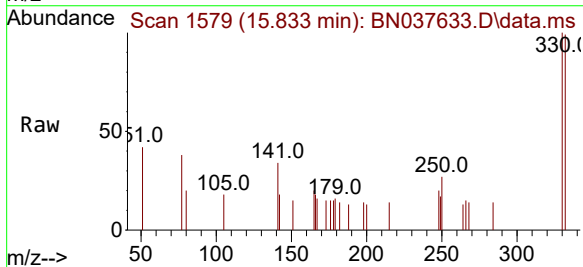
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

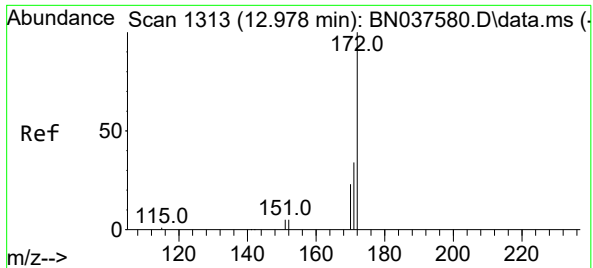
Tgt Ion:	164	Resp:	3102
Ion	Ratio	Lower	Upper
164	100		
162	102.4	85.5	128.3
160	57.9	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.411 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:	330	Resp:	558
Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.4	116.0
141	40.0	30.9	46.3

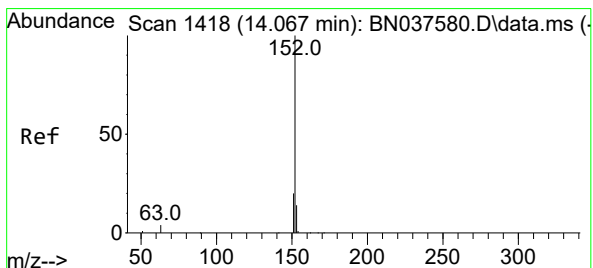
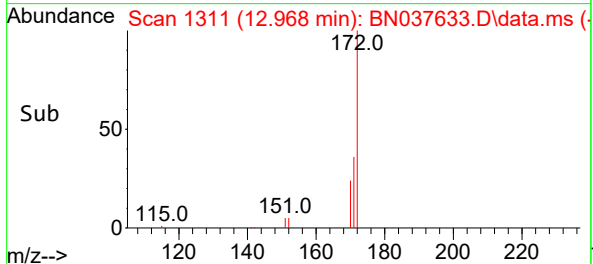
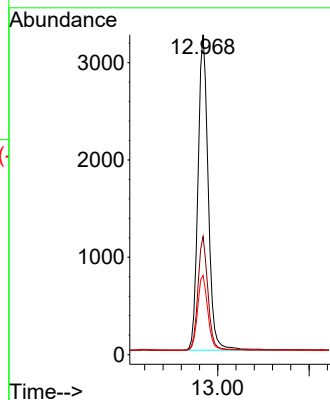
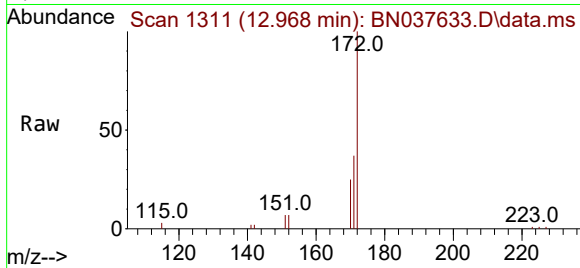




#15
2-Fluorobiphenyl
Concen: 0.402 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

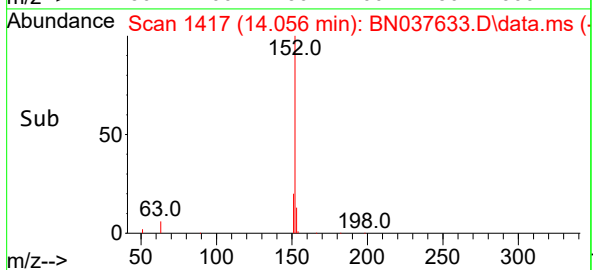
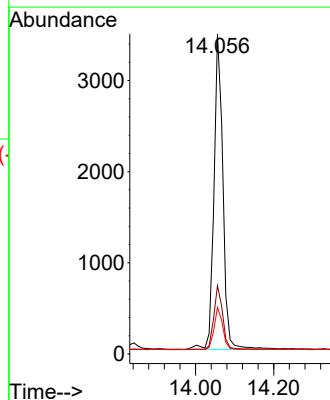
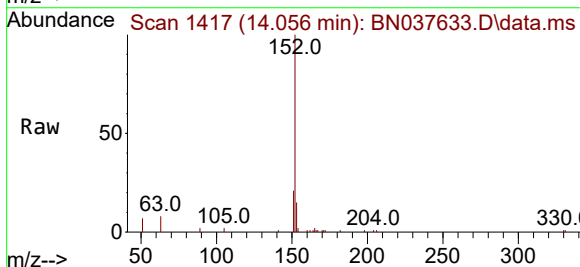
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

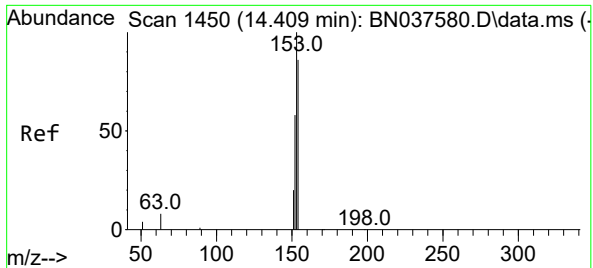
Tgt Ion:	172	Resp:	7213
Ion	Ratio	Lower	Upper
172	100		
171	36.9	28.2	42.4
170	24.7	19.2	28.8



#16
Acenaphthylene
Concen: 0.396 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:	152	Resp:	5508
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.1	24.1
153	13.1	10.7	16.1

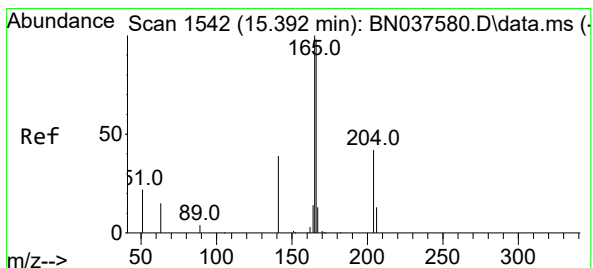
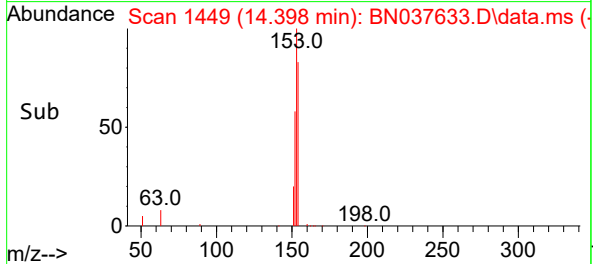
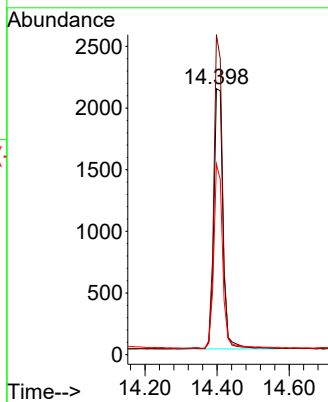
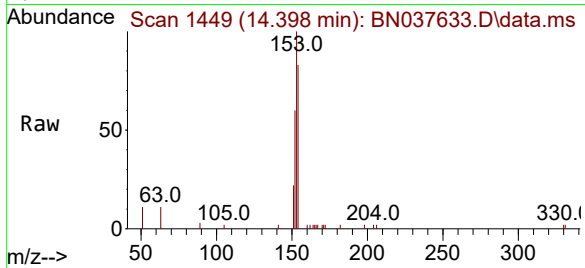




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.011 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

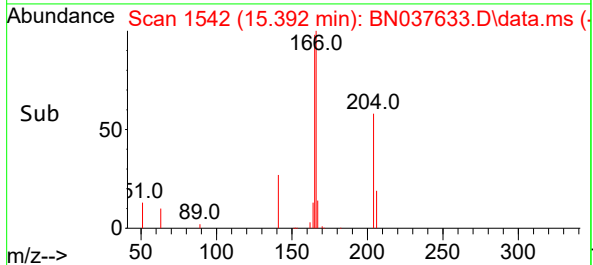
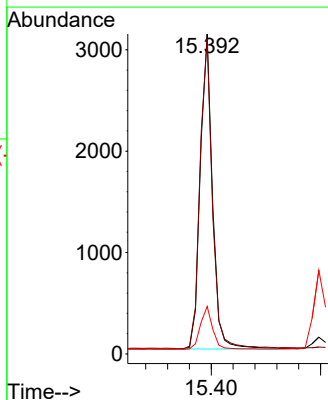
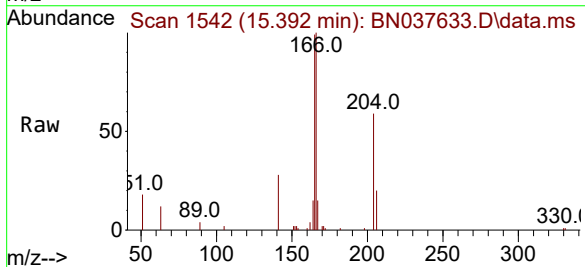
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

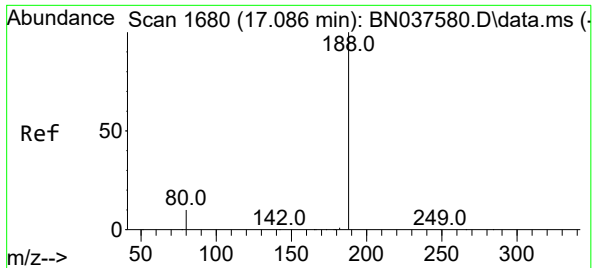
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.3	90.6	135.8
152	69.3	54.9	82.3



#18
Fluorene
Concen: 0.394 ng
RT: 15.392 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.3	78.9	118.3
167	13.6	10.7	16.1

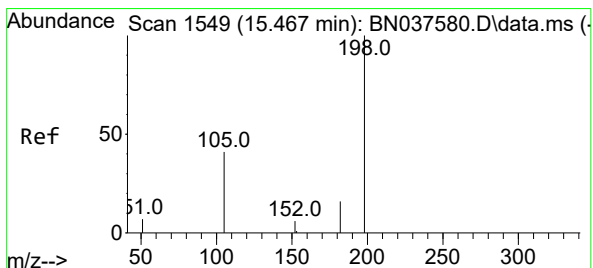
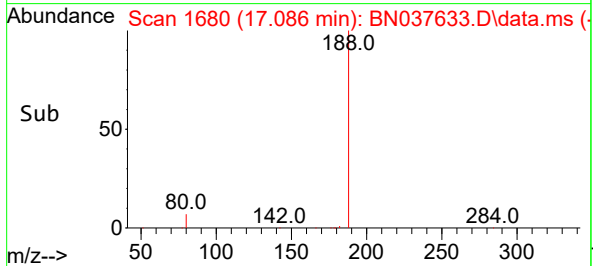
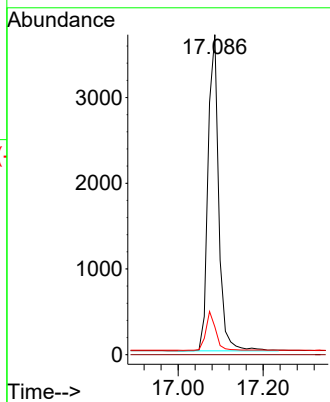
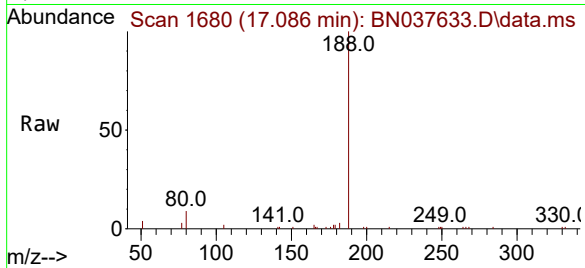




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

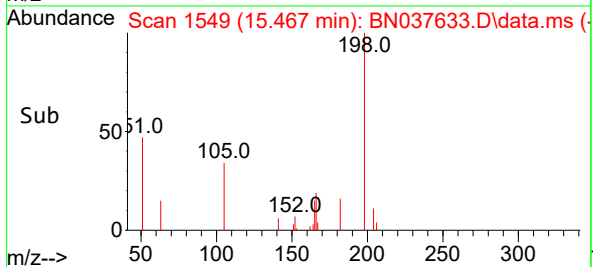
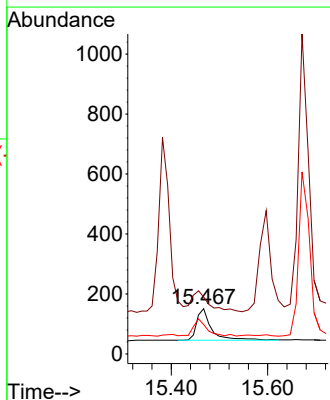
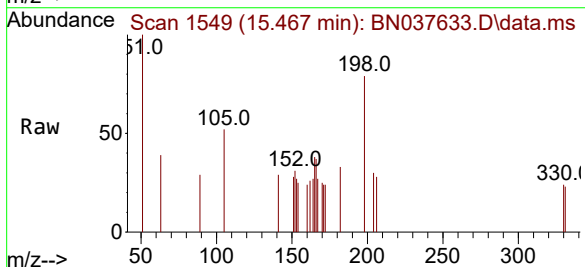
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

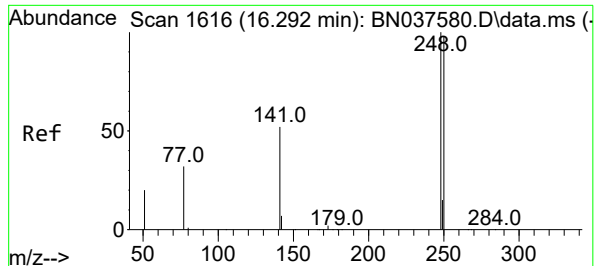
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.7	9.1	13.7#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.382 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion	Ratio	Lower	Upper
198	100		
51	125.8	81.0	121.6#
105	64.9	52.5	78.7

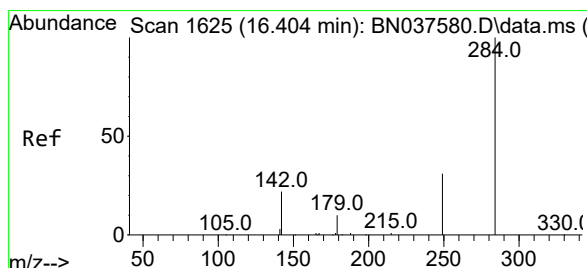
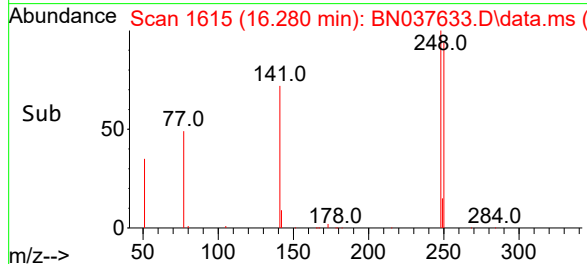
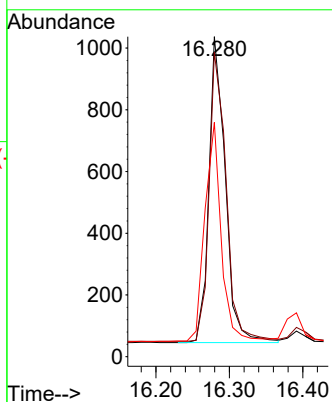
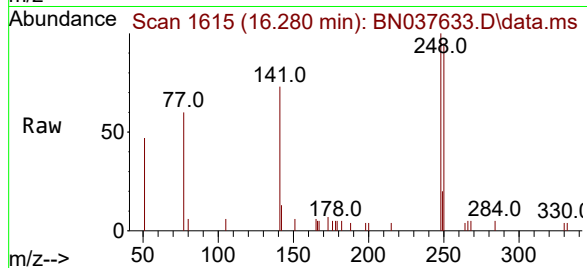




#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

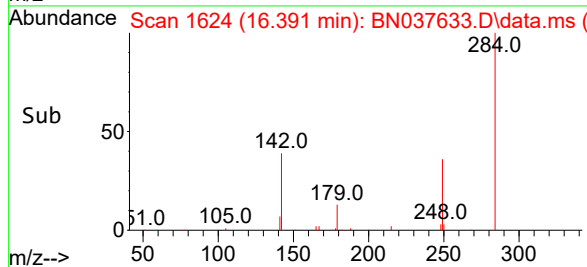
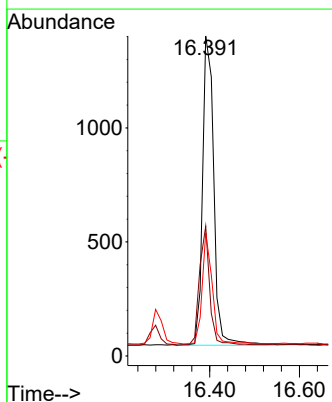
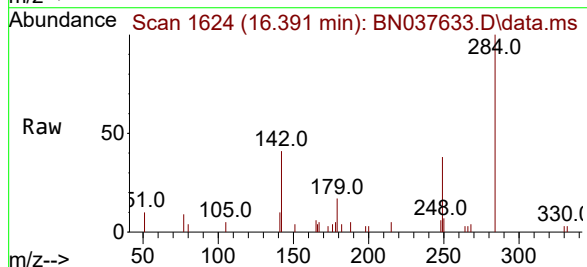
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

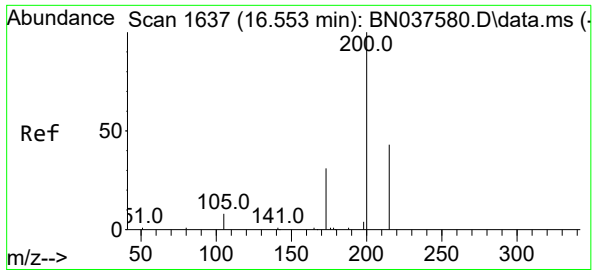
Tgt Ion:248 Resp: 1537
Ion Ratio Lower Upper
248 100
250 95.1 78.6 118.0
141 73.2 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.412 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:284 Resp: 2350
Ion Ratio Lower Upper
284 100
142 35.0 29.8 44.6
249 31.7 26.0 39.0





#23

Atrazine

Concen: 0.419 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

Instrument :

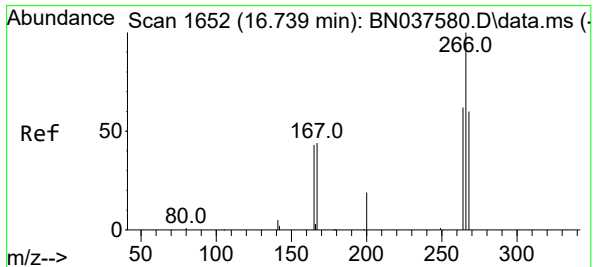
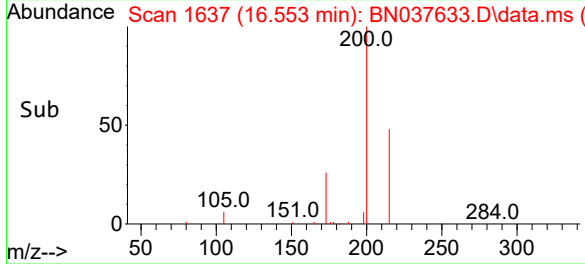
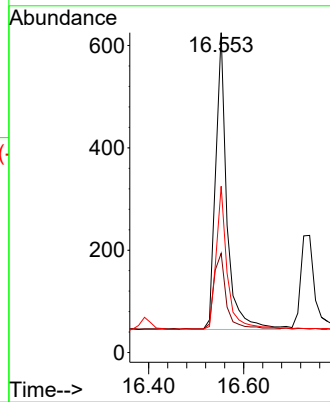
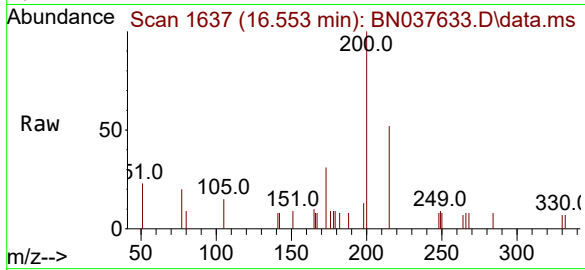
BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:200 Resp: 954

Ion	Ratio	Lower	Upper
200	100		
173	31.0	31.0	46.4
215	52.0	39.4	59.0



#24

Pentachlorophenol

Concen: 1.000 ng

RT: 16.739 min Scan# 1652

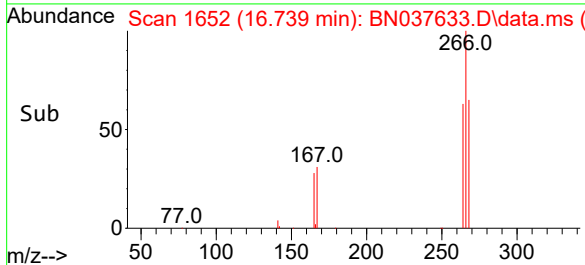
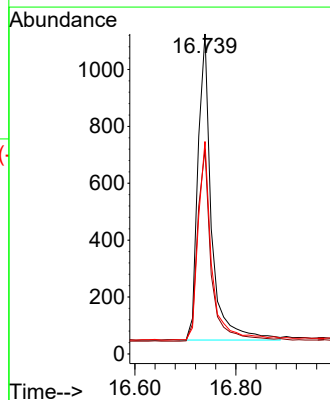
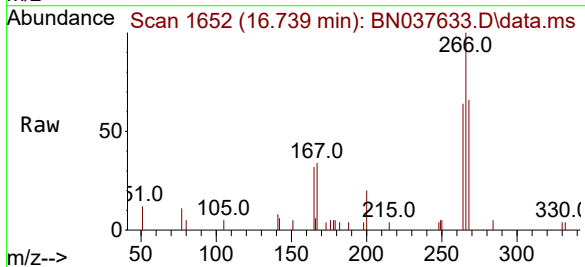
Delta R.T. -0.000 min

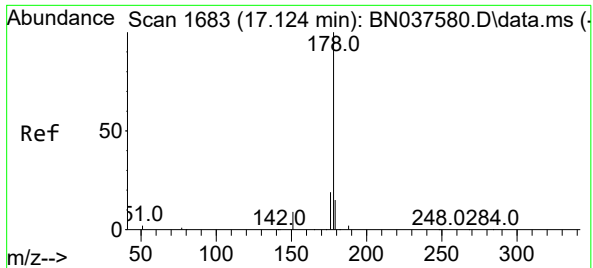
Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

Tgt Ion:266 Resp: 2004

Ion	Ratio	Lower	Upper
266	100		
264	63.5	49.6	74.4
268	64.9	49.2	73.8

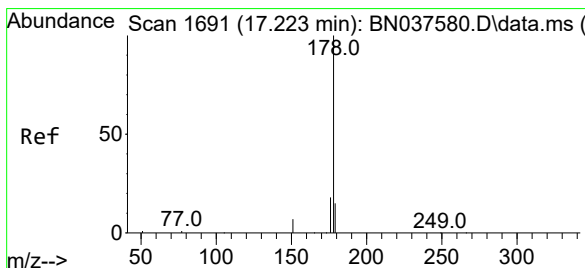
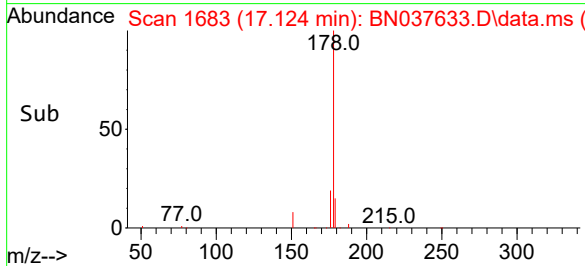
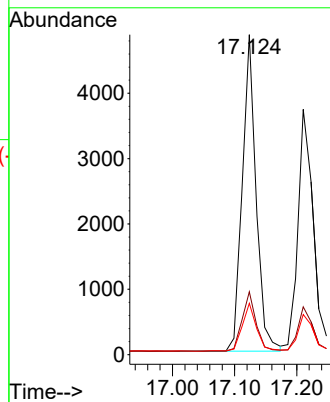
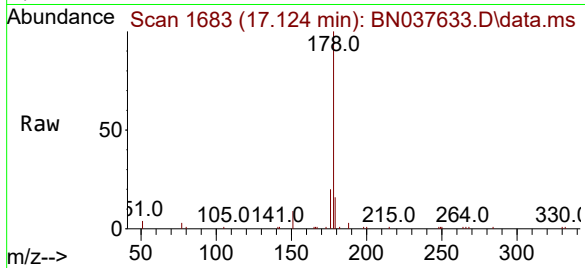




#25
Phenanthrene
Concen: 0.384 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

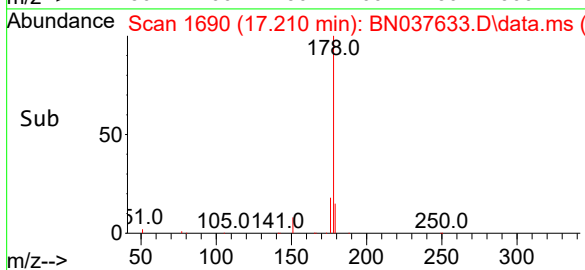
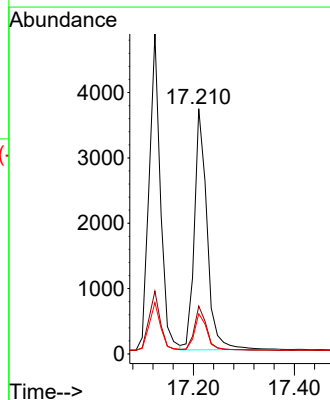
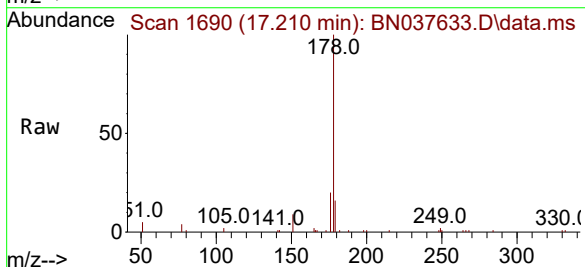
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

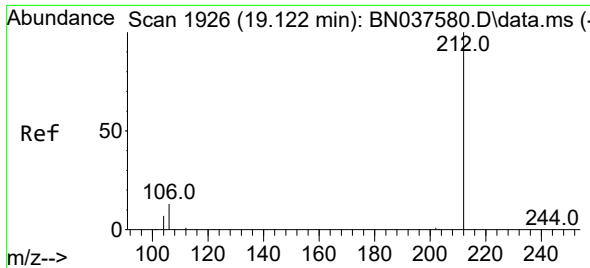
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.6	12.3	18.5



#26
Anthracene
Concen: 0.373 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.3	12.3	18.5

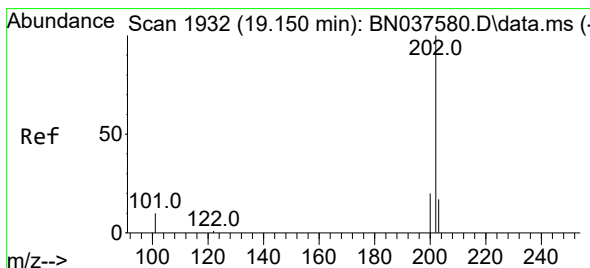
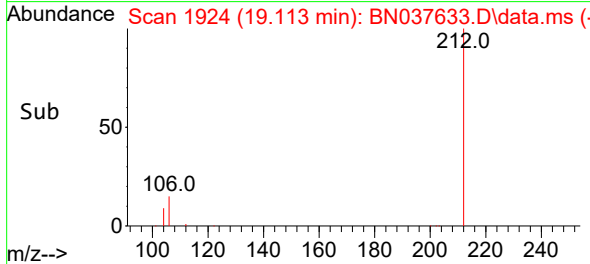
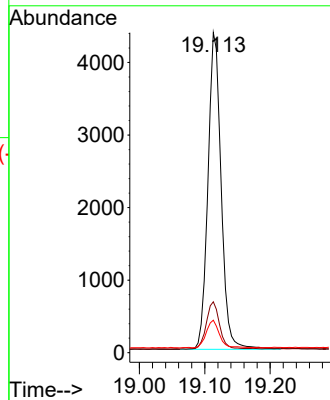
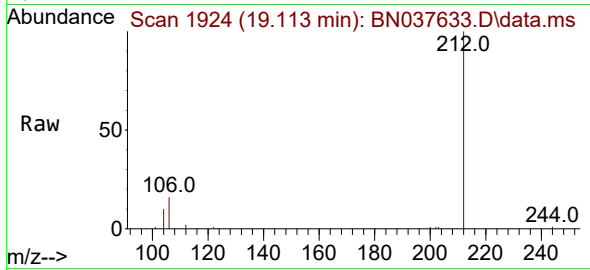




#27
Fluoranthene-d10
Concen: 0.364 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.009 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

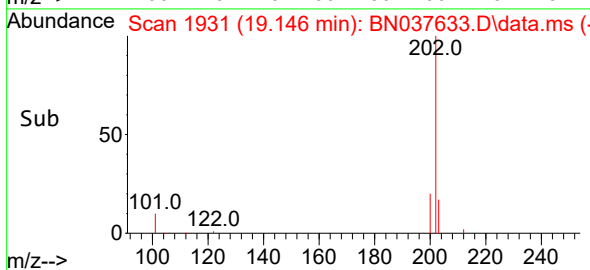
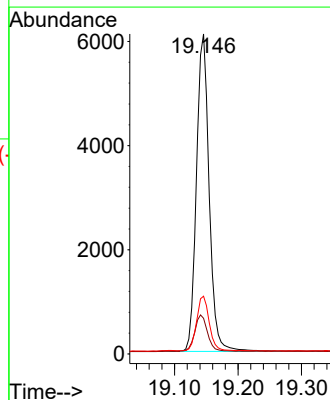
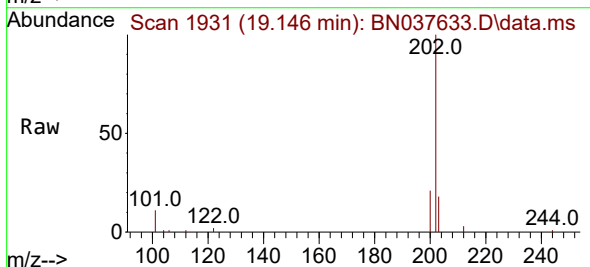
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

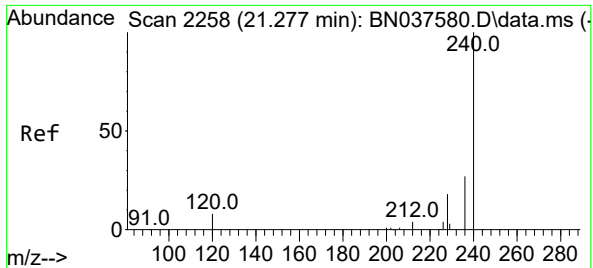
Tgt Ion:212 Resp: 6134
Ion Ratio Lower Upper
212 100
106 15.1 11.5 17.3
104 8.9 6.6 9.8



#28
Fluoranthene
Concen: 0.378 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:202 Resp: 8465
Ion Ratio Lower Upper
202 100
101 11.7 9.0 13.6
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

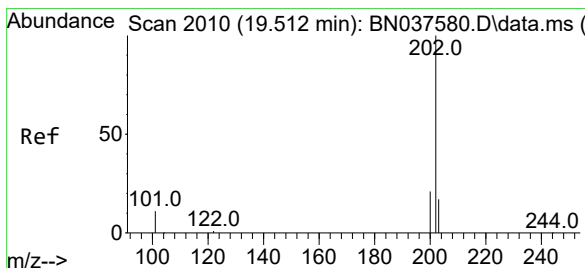
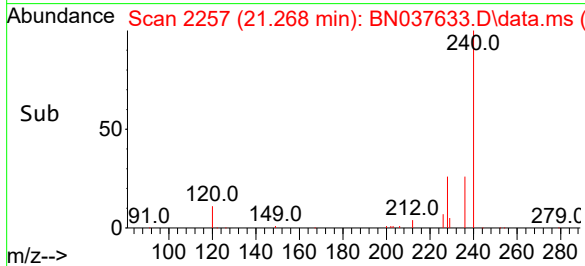
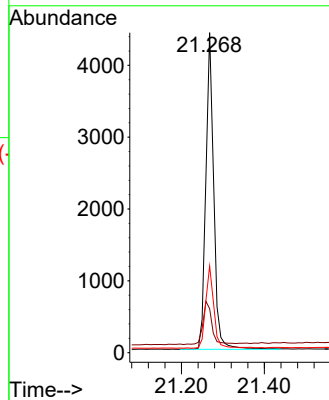
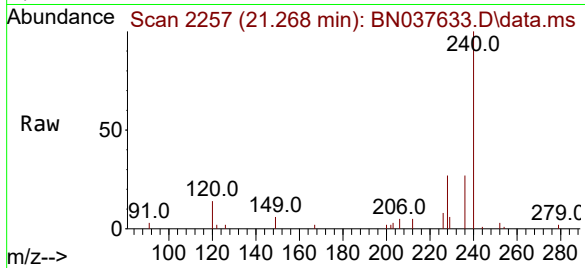
Tgt Ion:240 Resp: 5848

Ion Ratio Lower Upper

240 100

120 13.8 8.9 13.3#

236 27.1 22.6 33.8



#30

Pyrene

Concen: 0.372 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

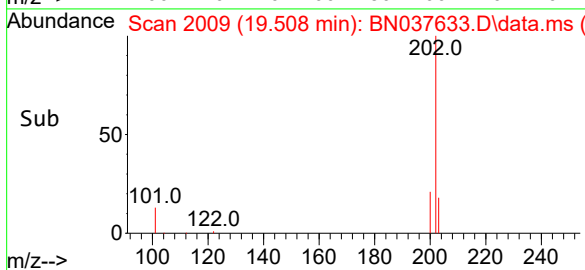
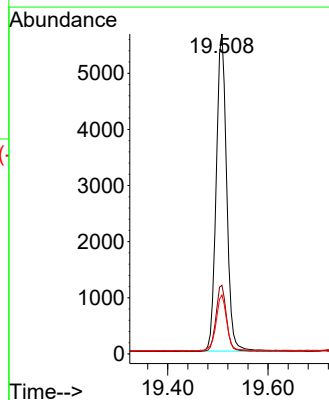
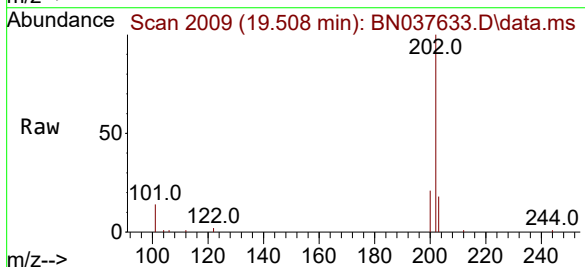
Tgt Ion:202 Resp: 8139

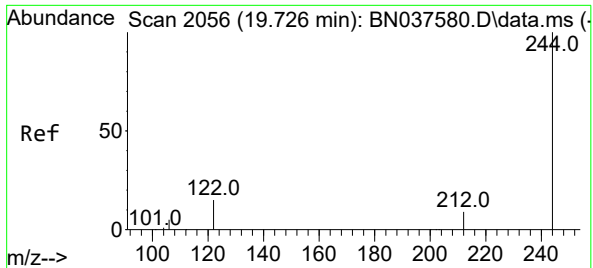
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 18.1 14.3 21.5

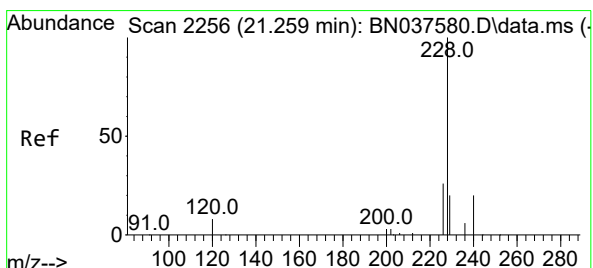
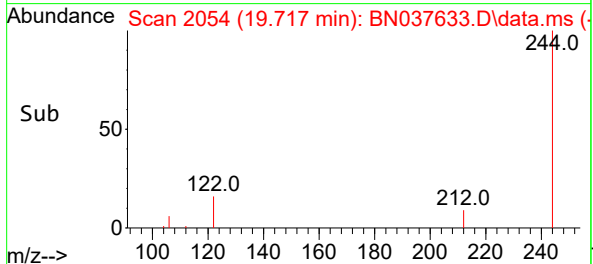
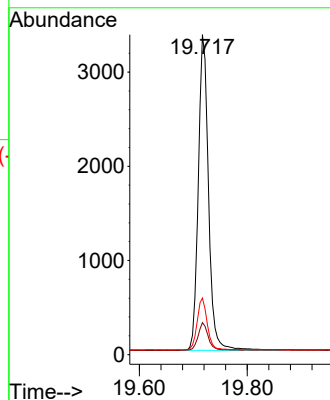
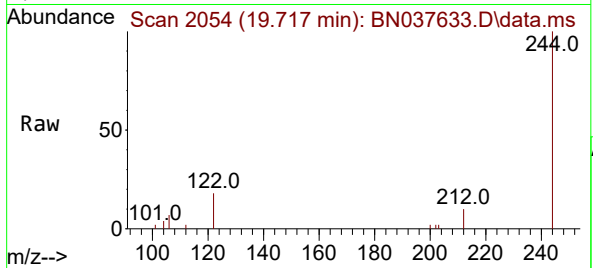




#31
Terphenyl-d14
Concen: 0.367 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

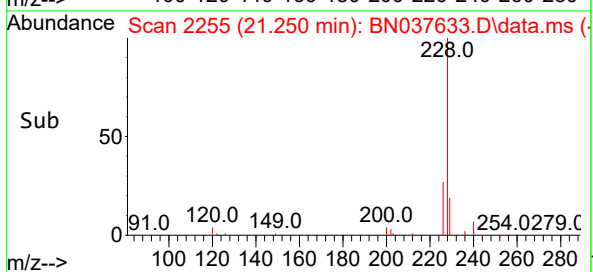
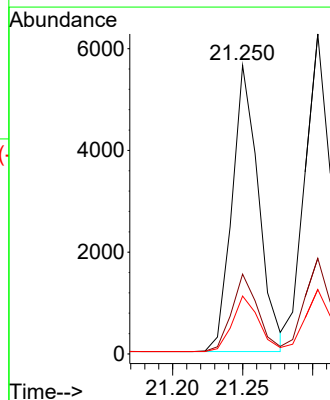
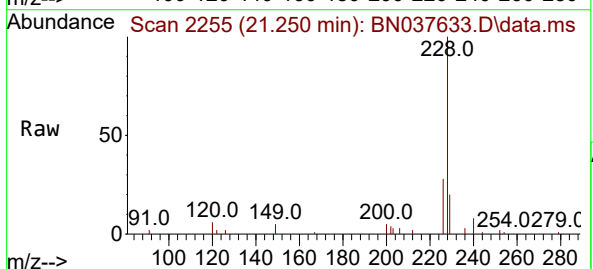
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

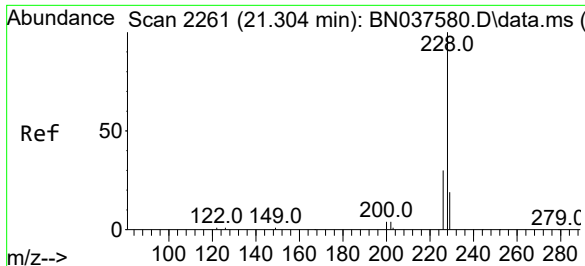
Tgt Ion:244 Resp: 4414
Ion Ratio Lower Upper
244 100
212 10.0 8.2 12.2
122 17.7 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.380 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:228 Resp: 7419
Ion Ratio Lower Upper
228 100
226 27.7 21.5 32.3
229 20.1 16.5 24.7

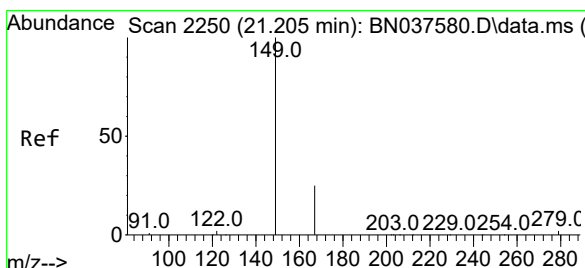
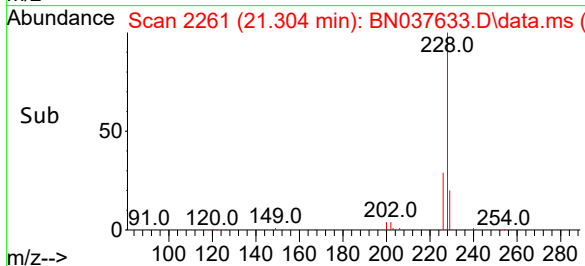
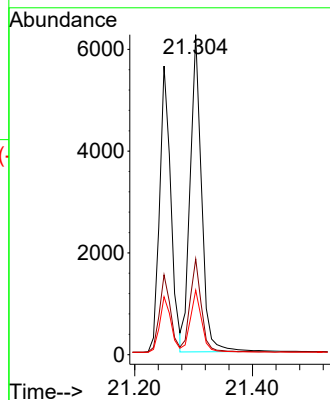
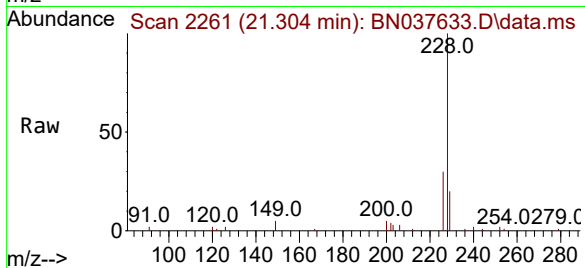




#33
Chrysene
Concen: 0.386 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

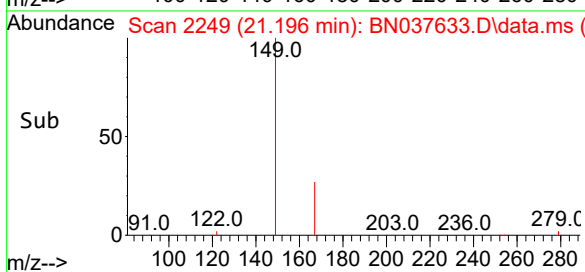
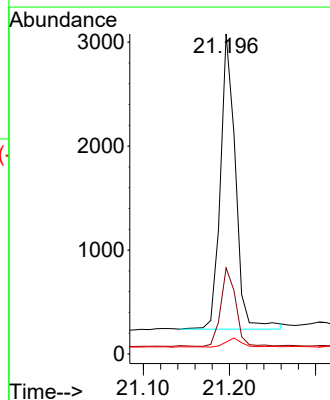
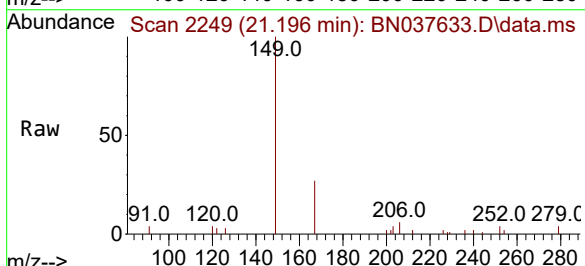
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

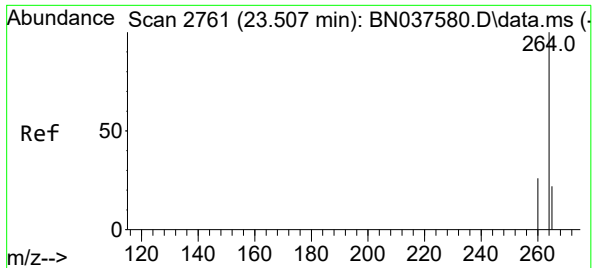
Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.9	37.3
229	20.1	15.8	23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.427 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.009 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.5	30.7
279	3.2	2.6	4.0

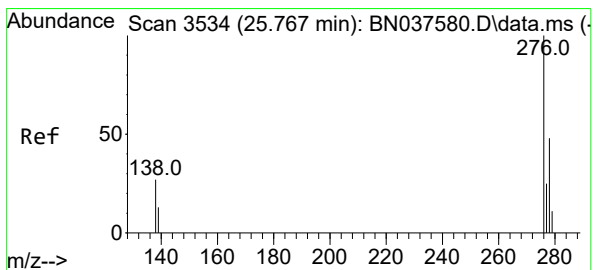
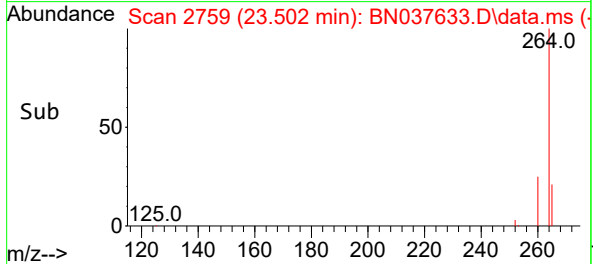
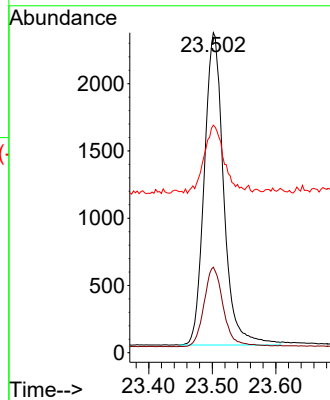
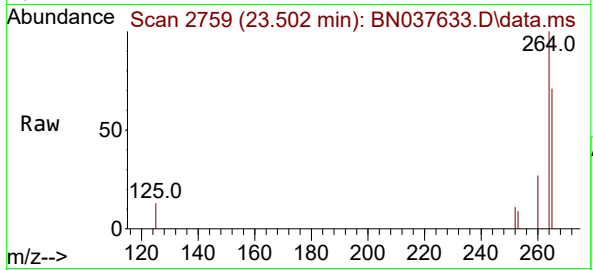




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.502 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

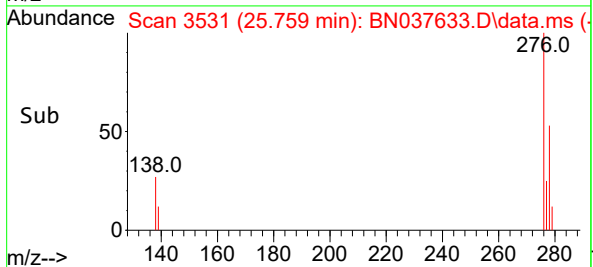
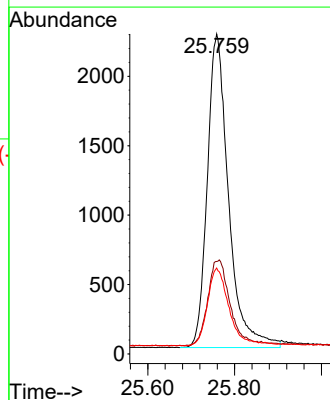
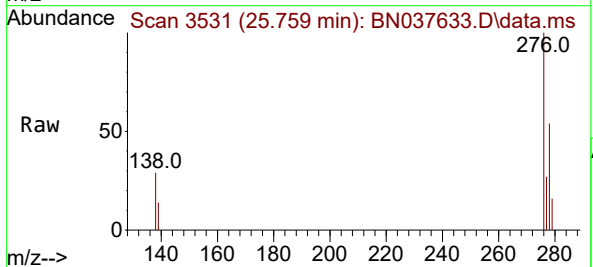
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

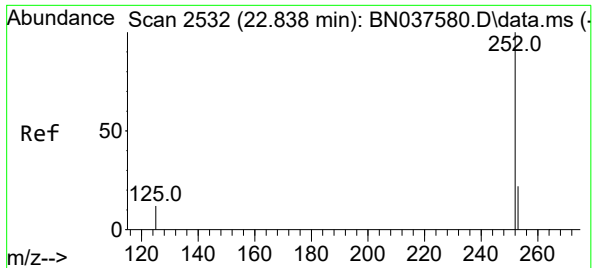
Tgt Ion:264 Resp: 4933
Ion Ratio Lower Upper
264 100
260 26.7 21.6 32.4
265 71.1 48.2 72.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.370 ng
RT: 25.759 min Scan# 3531
Delta R.T. -0.009 min
Lab File: BN037633.D
Acq: 20 Aug 2025 16:57

Tgt Ion:276 Resp: 7685
Ion Ratio Lower Upper
276 100
138 28.6 23.3 34.9
277 24.8 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.408 ng

RT: 22.829 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

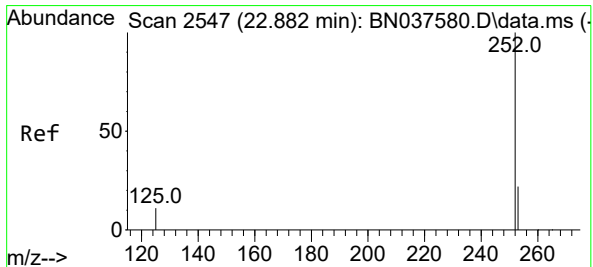
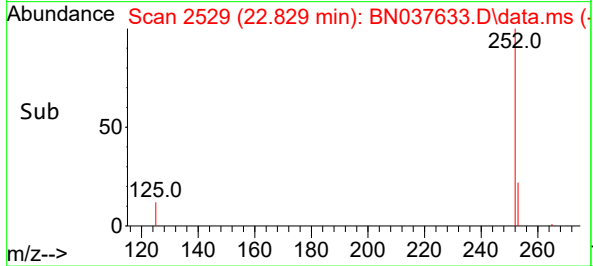
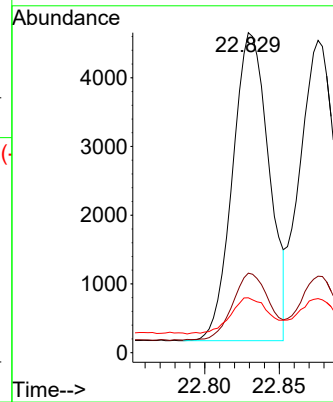
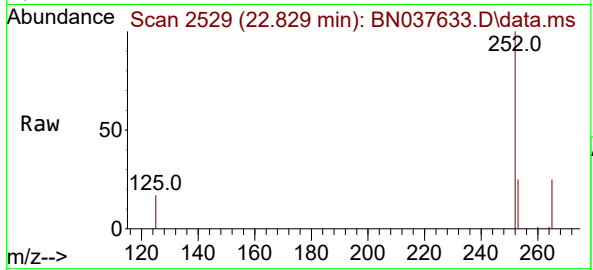
Tgt Ion:252 Resp: 7623

Ion Ratio Lower Upper

252 100

253 24.8 20.0 30.0

125 17.2 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.370 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

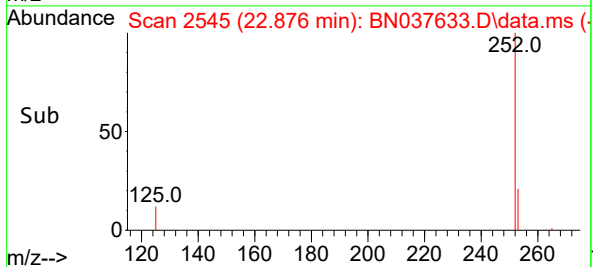
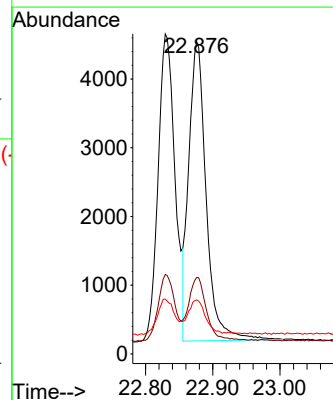
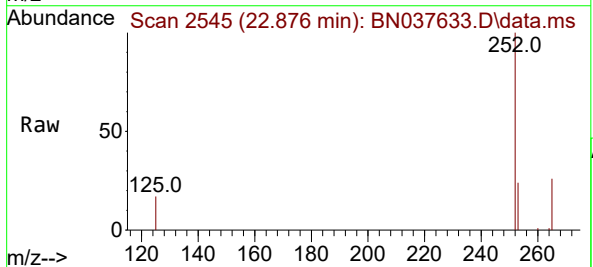
Tgt Ion:252 Resp: 7812

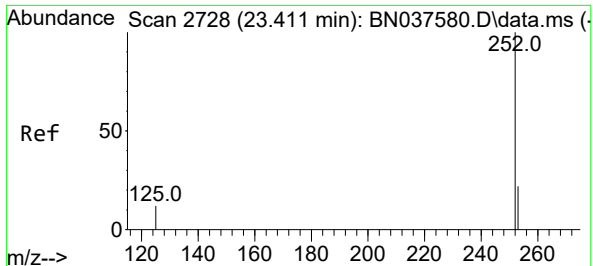
Ion Ratio Lower Upper

252 100

253 24.5 19.9 29.9

125 17.3 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

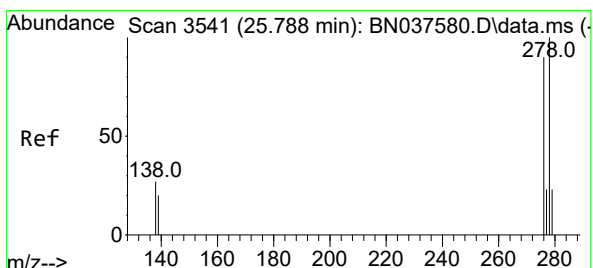
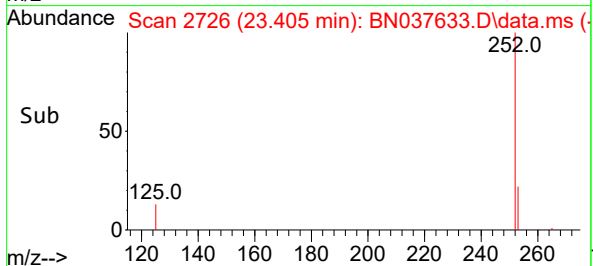
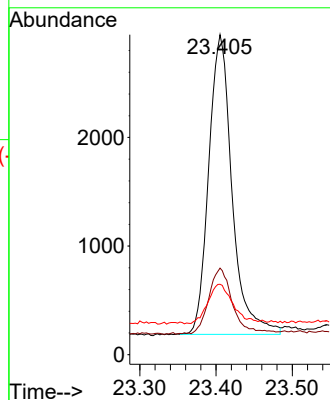
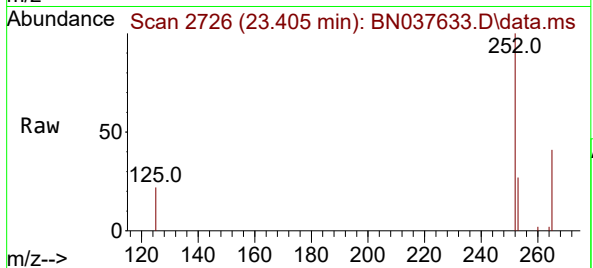
Tgt Ion:252 Resp: 5881

Ion Ratio Lower Upper

252 100

253 27.1 21.6 32.4

125 22.0 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 25.776 min Scan# 3537

Delta R.T. -0.012 min

Lab File: BN037633.D

Acq: 20 Aug 2025 16:57

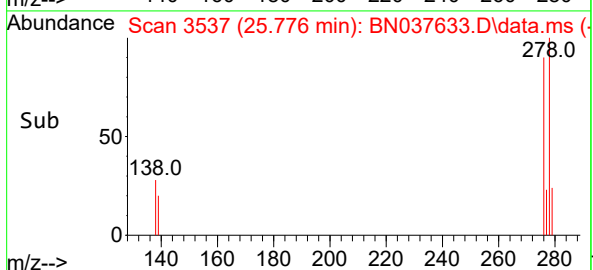
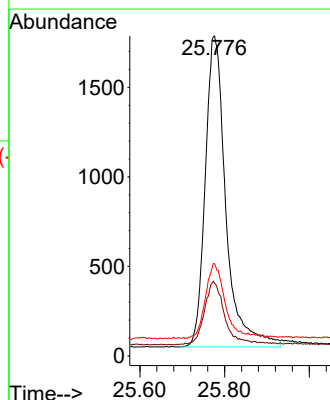
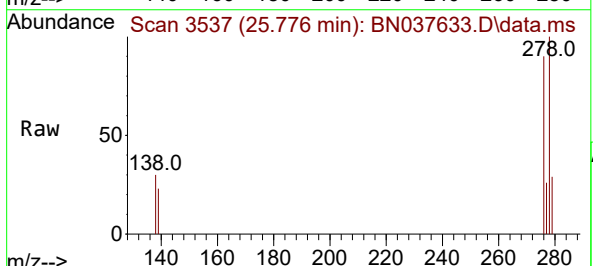
Tgt Ion:278 Resp: 5887

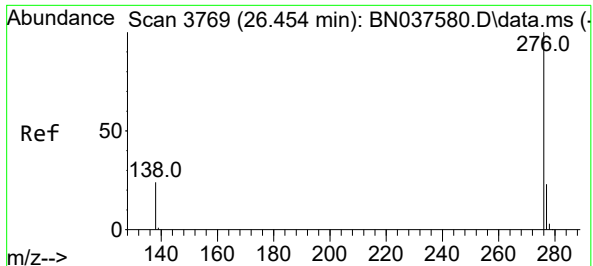
Ion Ratio Lower Upper

278 100

139 22.7 18.3 27.5

279 28.8 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.410 ng

RT: 26.443 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037633.D

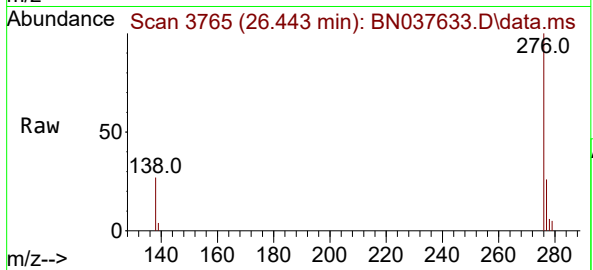
Acq: 20 Aug 2025 16:57

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



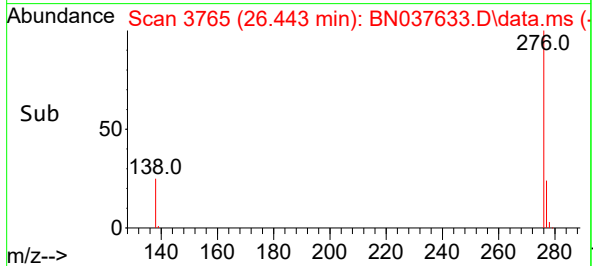
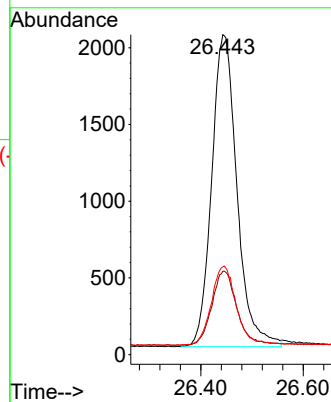
Tgt Ion:276 Resp: 6965

Ion Ratio Lower Upper

276 100

277 26.0 21.0 31.4

138 27.4 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037633.D
Acq On : 20 Aug 2025 16:57
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 21 04:56:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	131	0.00
2	1,4-Dioxane	0.383	0.377	1.6	125	0.00
3	n-Nitrosodimethylamine	0.489	0.482	1.4	129	0.00
4 S	2-Fluorophenol	0.907	0.835	7.9	123	0.00
5 S	Phenol-d6	1.091	1.002	8.2	126	0.00
6	bis(2-Chloroethyl)ether	0.983	0.980	0.3	132	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.282	0.274	2.8	130	0.00
9	Naphthalene	1.065	1.064	0.1	128	-0.01
10	Hexachlorobutadiene	0.260	0.265	-1.9	126	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.500	8.1	123	0.00
12	2-Methylnaphthalene	0.668	0.635	4.9	125	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00
14 S	2,4,6-Tribromophenol	0.175	0.180	-2.9	141	0.00
15 S	2-Fluorobiphenyl	2.313	2.325	-0.5	124	-0.01
16	Acenaphthylene	1.793	1.776	0.9	127	-0.01
17	Acenaphthene	1.220	1.196	2.0	125	-0.01
18	Fluorene	1.596	1.572	1.5	126	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	127	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.037	30.2#	101	0.00
21	4-Bromophenyl-phenylether	0.251	0.240	4.4	131	-0.01
22	Hexachlorobenzene	0.356	0.367	-3.1	131	-0.01
23	Atrazine	0.142	0.149	-4.9	146	0.00
24	Pentachlorophenol	0.125	0.313	-150.4#	351#	0.00
25	Phenanthrene	1.216	1.169	3.9	127	0.00
26	Anthracene	1.077	1.004	6.8	128	-0.01
27 SURR	Fluoranthene-d10	1.052	0.958	8.9	128	0.00
28	Fluoranthene	1.397	1.322	5.4	130	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	135	0.00
30	Pyrene	1.495	1.392	6.9	129	0.00
31 S	Terphenyl-d14	0.823	0.755	8.3	128	0.00
32	Benzo(a)anthracene	1.336	1.269	5.0	136	0.00
33	Chrysene	1.489	1.436	3.6	136	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.589	-6.9	153#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.558	7.6	114	0.00
37	Benzo(b)fluoranthene	1.516	1.545	-1.9	136	0.00
38	Benzo(k)fluoranthene	1.710	1.584	7.4	113	0.00
39 C	Benzo(a)pyrene	1.257	1.192	5.2	122	0.00
40	Dibenzo(a,h)anthracene	1.308	1.193	8.8	115	-0.01
41	Benzo(g,h,i)perylene	1.378	1.412	-2.5	132	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037633.D
Acq On : 20 Aug 2025 16:57
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Aug 21 04:56:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	131	0.00
2	1,4-Dioxane	0.400	0.394	1.5	125	0.00
3	n-Nitrosodimethylamine	0.400	0.394	1.5	129	0.00
4 S	2-Fluorophenol	0.400	0.368	8.0	123	0.00
5 S	Phenol-d6	0.400	0.367	8.3	126	0.00
6	bis(2-Chloroethyl)ether	0.400	0.399	0.3	132	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	125	-0.01
8 S	Nitrobenzene-d5	0.400	0.389	2.8	130	0.00
9	Naphthalene	0.400	0.399	0.3	128	-0.01
10	Hexachlorobutadiene	0.400	0.407	-1.7	126	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.368	8.0	123	0.00
12	2-Methylnaphthalene	0.400	0.380	5.0	125	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	122	0.00
14 S	2,4,6-Tribromophenol	0.400	0.411	-2.7	141	0.00
15 S	2-Fluorobiphenyl	0.400	0.402	-0.5	124	-0.01
16	Acenaphthylene	0.400	0.396	1.0	127	-0.01
17	Acenaphthene	0.400	0.392	2.0	125	-0.01
18	Fluorene	0.400	0.394	1.5	126	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	127	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.382	4.5	101	0.00
21	4-Bromophenyl-phenylether	0.400	0.382	4.5	131	-0.01
22	Hexachlorobenzene	0.400	0.412	-3.0	131	-0.01
23	Atrazine	0.400	0.419	-4.7	146	0.00
24	Pentachlorophenol	0.400	1.000	-150.0#	351	0.00
25	Phenanthrene	0.400	0.384	4.0	127	0.00
26	Anthracene	0.400	0.373	6.8	128	-0.01
27 SURR	Fluoranthene-d10	0.400	0.364	9.0	128	0.00
28	Fluoranthene	0.400	0.378	5.5	130	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	135	0.00
30	Pyrene	0.400	0.372	7.0	129	0.00
31 S	Terphenyl-d14	0.400	0.367	8.3	128	0.00
32	Benzo(a)anthracene	0.400	0.380	5.0	136	0.00
33	Chrysene	0.400	0.386	3.5	136	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.427	-6.7	153	0.00
35 I	Perylene-d12	0.400	0.400	0.0	118	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.370	7.5	114	0.00
37	Benzo(b)fluoranthene	0.400	0.408	-2.0	136	0.00
38	Benzo(k)fluoranthene	0.400	0.370	7.5	113	0.00
39 C	Benzo(a)pyrene	0.400	0.379	5.3	122	0.00
40	Dibenzo(a,h)anthracene	0.400	0.365	8.8	115	-0.01
41	Benzo(g,h,i)perylene	0.400	0.410	-2.5	132	-0.01

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TETR06
 Lab Code: ACE SDG No.: Q2886
 Instrument ID: BNA_N Calibration Date/Time: 08/20/2025 21:47
 Lab File ID: BN037641.D Init. Calib. Date(s): 08/12/2025 08/12/2025
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:26 20:05
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.544	0.462		-15.1	50.0
Fluoranthene-d10	1.052	0.964		-8.4	50.0
2-Fluorophenol	0.907	1.118		23.3	50.0
Phenol-d6	1.091	2.134		95.6	50.0
Nitrobenzene-d5	0.282	0.380		34.8	50.0
2-Fluorobiphenyl	2.313	2.315		0.1	50.0
2,4,6-Tribromophenol	0.175	0.178		1.7	50.0
Terphenyl-d14	0.823	0.809		-1.7	50.0
1,4-Dioxane	0.383	0.350		-8.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
 Data File : BN037641.D
 Acq On : 20 Aug 2025 21:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Aug 21 04:58:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

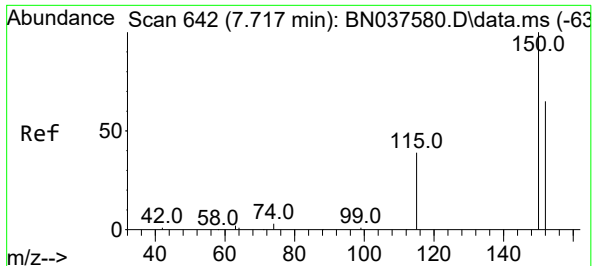
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2575	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	5737	0.400	ng	-0.01
13) Acenaphthene-d10	14.345	164	2634	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	5428	0.400	ng	0.00
29) Chrysene-d12	21.268	240	4679	0.400	ng	0.00
35) Perylene-d12	23.499	264	4145	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	2880	0.493	ng	0.00
5) Phenol-d6	6.872	99	5496	0.782	ng	0.00
8) Nitrobenzene-d5	8.854	82	2180	0.539	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	2649	0.340	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	469	0.407	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	6098	0.400	ng	0.00
27) Fluoranthene-d10	19.113	212	5231	0.366	ng	0.00
31) Terphenyl-d14	19.717	244	3784	0.393	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.232	88	902	0.366	ng	96
3) n-Nitrosodimethylamine	3.536	42	1300	0.413	ng	# 95
6) bis(2-Chloroethyl)ether	7.132	93	2750	0.434	ng	97
9) Naphthalene	10.541	128	6566	0.430	ng	100
10) Hexachlorobutadiene	10.840	225	1717	0.460	ng	# 99
12) 2-Methylnaphthalene	12.157	142	3486	0.364	ng	100
16) Acenaphthylene	14.056	152	4568	0.387	ng	99
17) Acenaphthene	14.398	154	3082	0.384	ng	100
18) Fluorene	15.393	166	4114	0.392	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	206	0.390	ng	87
21) 4-Bromophenyl-phenylether	16.280	248	1295	0.380	ng	# 88
22) Hexachlorobenzene	16.391	284	1986	0.411	ng	98
23) Atrazine	16.553	200	824	0.427	ng	93
24) Pentachlorophenol	16.739	266	623	0.367	ng	98
25) Phenanthrene	17.124	178	6316	0.383	ng	99
26) Anthracene	17.211	178	5430	0.372	ng	100
28) Fluoranthene	19.141	202	7068	0.373	ng	100
30) Pyrene	19.503	202	6918	0.396	ng	99
32) Benzo(a)anthracene	21.250	228	5896	0.377	ng	99
33) Chrysene	21.304	228	6785	0.390	ng	98
34) Bis(2-ethylhexyl)phtha...	21.196	149	2674	0.415	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.750	276	6653	0.381	ng	100
37) Benzo(b)fluoranthene	22.826	252	6519	0.415	ng	98
38) Benzo(k)fluoranthene	22.873	252	6736	0.380	ng	98
39) Benzo(a)pyrene	23.399	252	4941	0.379	ng	95
40) Dibenzo(a,h)anthracene	25.768	278	5088	0.375	ng	99
41) Benzo(g,h,i)perylene	26.437	276	5748	0.403	ng	99

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

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

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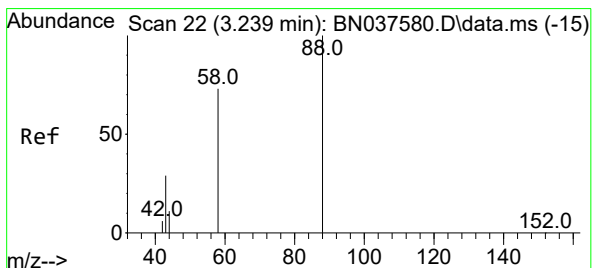
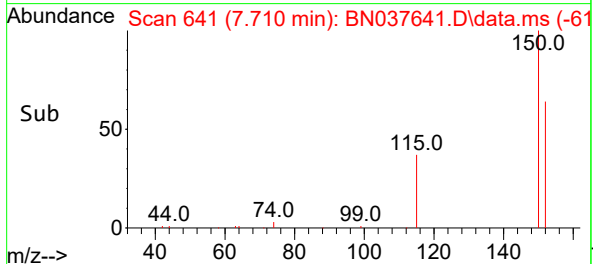
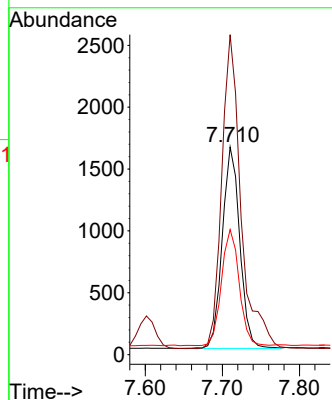
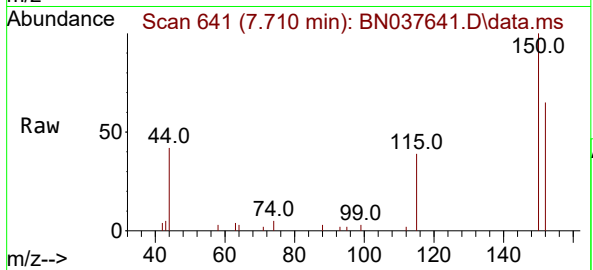




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

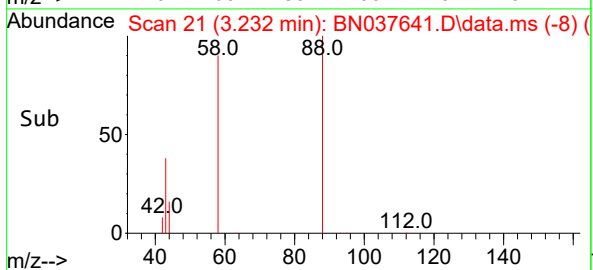
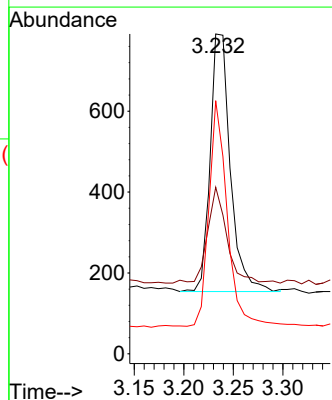
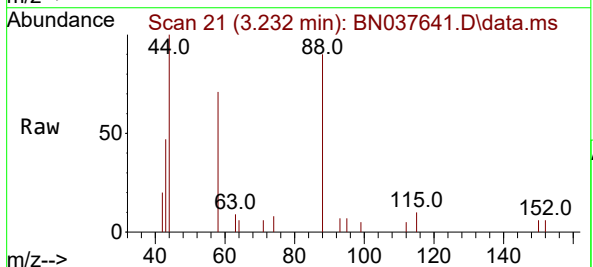
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BNA_N
ClientSampleId :
SSTDCCC0.4EC

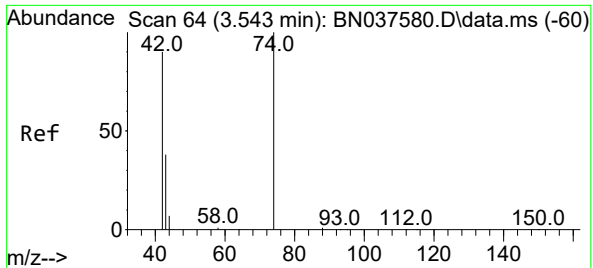
Tgt Ion:152 Resp: 2575
Ion Ratio Lower Upper
152 100
150 154.1 122.2 183.4
115 60.3 49.8 74.6



#2
1,4-Dioxane
Concen: 0.366 ng
RT: 3.232 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion: 88 Resp: 902
Ion Ratio Lower Upper
88 100
43 35.5 25.8 38.6
58 79.5 61.2 91.8

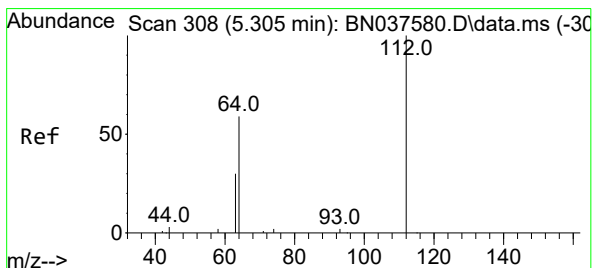
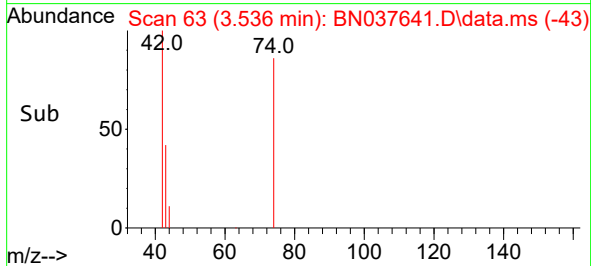
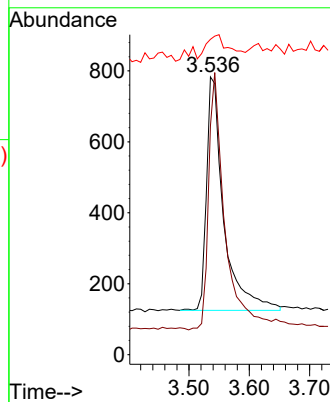
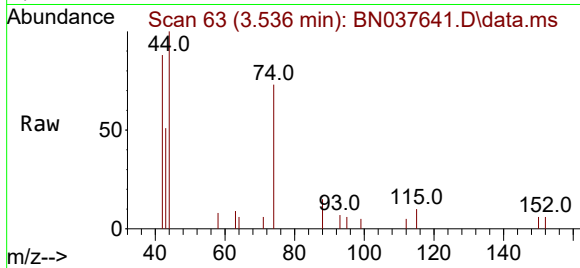




#3
n-Nitrosodimethylamine
Concen: 0.413 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

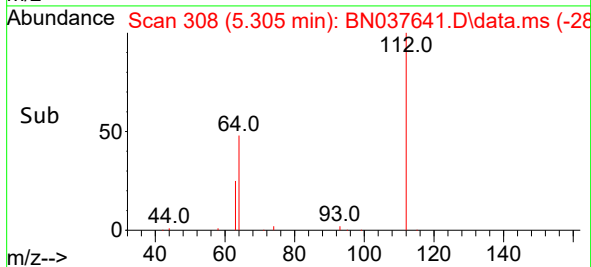
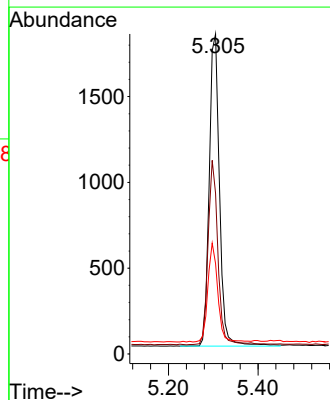
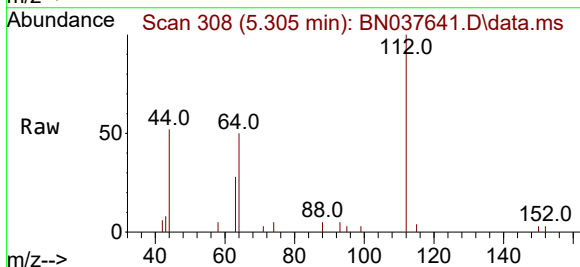
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ClientSampleId :
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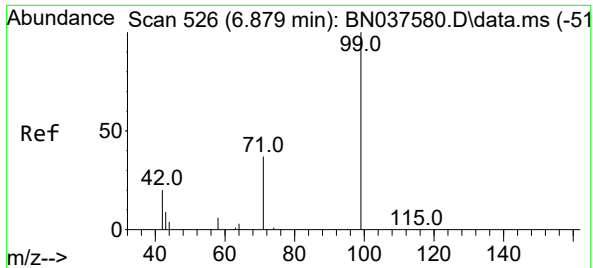
Tgt Ion: 42 Resp: 1300
Ion Ratio Lower Upper
42 100
74 107.2 82.0 123.0
44 13.2 7.9 11.9#



#4
2-Fluorophenol
Concen: 0.493 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion: 112 Resp: 2880
Ion Ratio Lower Upper
112 100
64 57.1 44.9 67.3
63 30.4 23.4 35.2

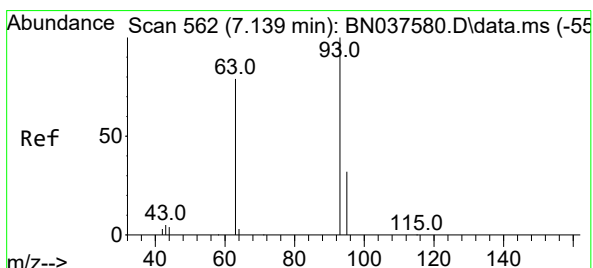
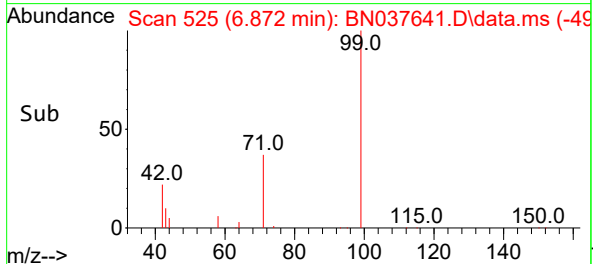
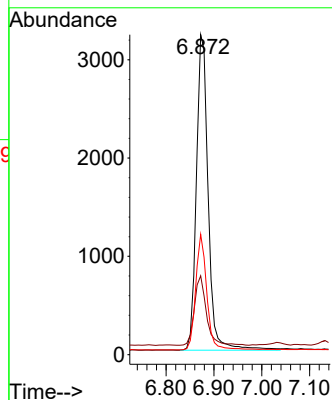
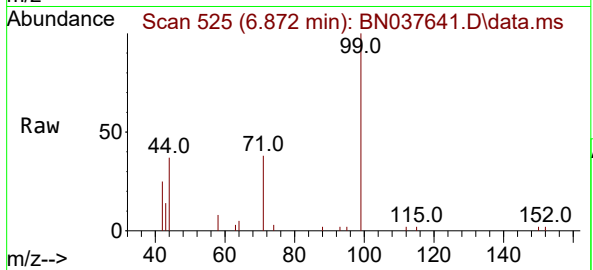




#5
Phenol-d6
Concen: 0.782 ng
RT: 6.872 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

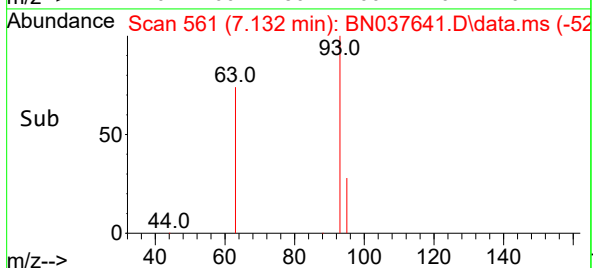
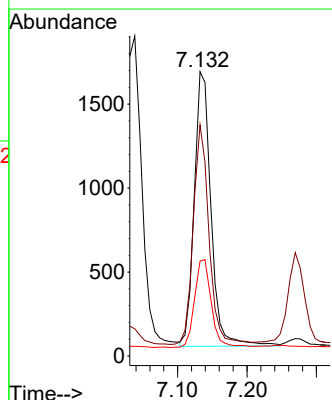
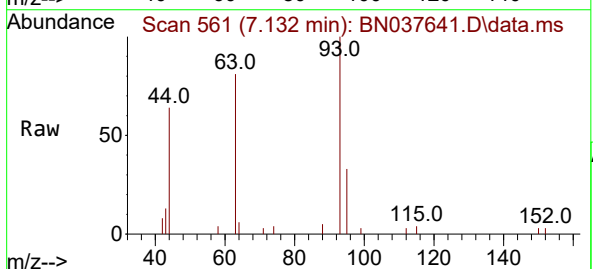
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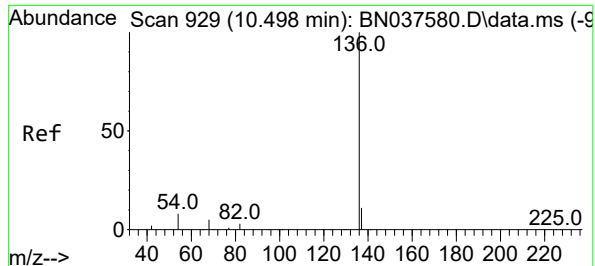
Tgt Ion	Ratio	Lower	Upper
99	100		
42	22.4	18.5	27.7
71	34.9	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.434 ng
RT: 7.132 min Scan# 561
Delta R.T. -0.007 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion	Ratio	Lower	Upper
93	100		
63	75.0	58.0	87.0
95	32.4	24.9	37.3

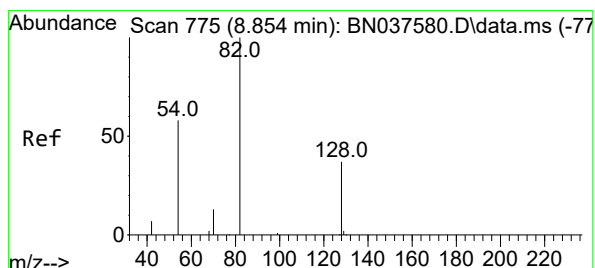
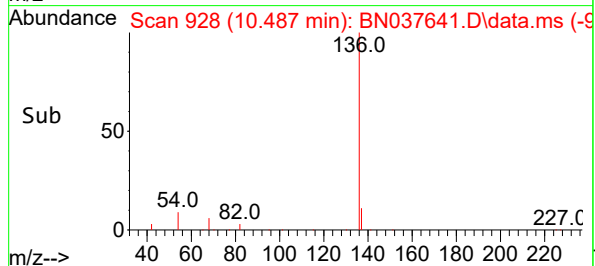
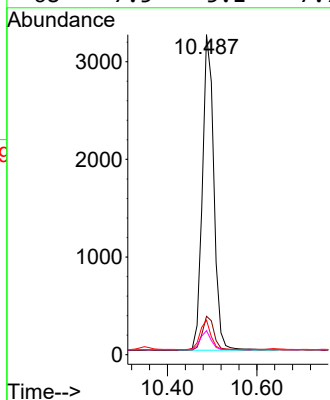
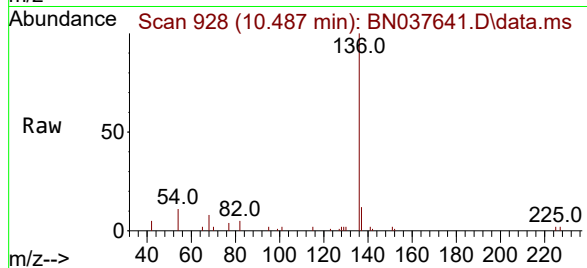




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 911
Delta R.T. -0.010 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

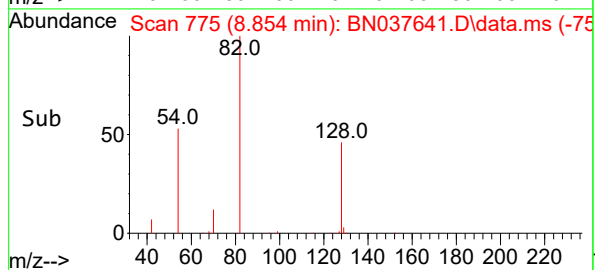
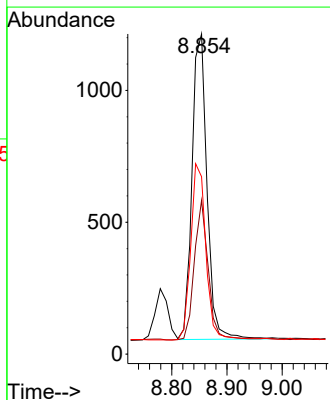
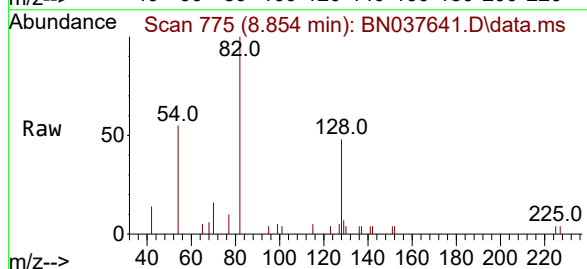
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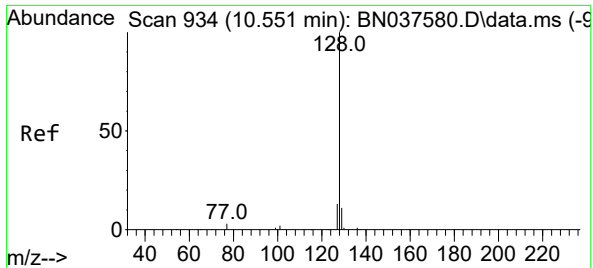
Tgt Ion:	136	Resp:	5737
Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.5	14.3
54	10.8	7.3	10.9
68	7.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.539 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:	82	Resp:	2180
Ion	Ratio	Lower	Upper
82	100		
128	48.0	32.6	48.8
54	55.4	48.9	73.3

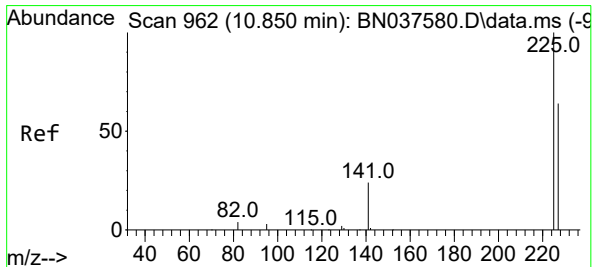
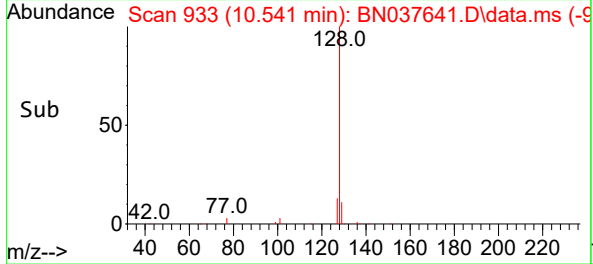
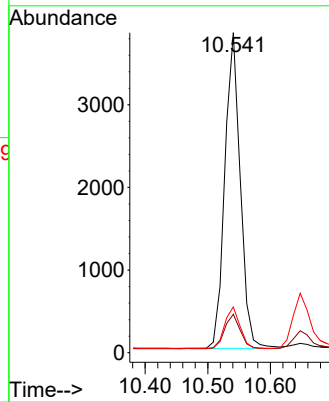
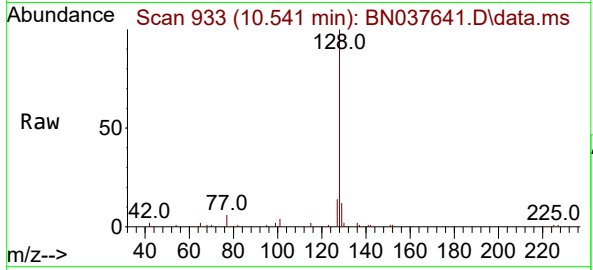




#9
Naphthalene
Concen: 0.430 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

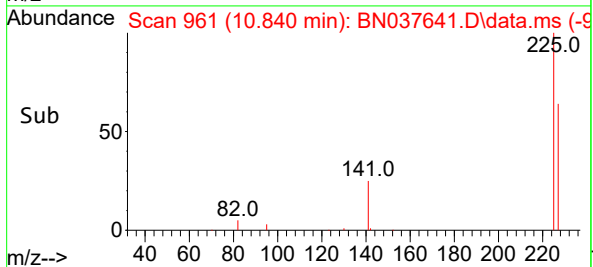
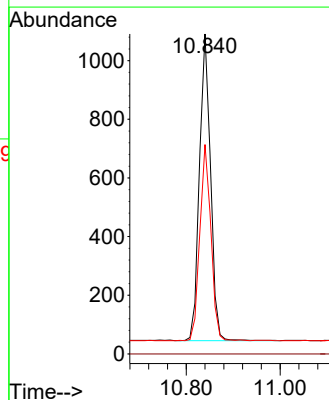
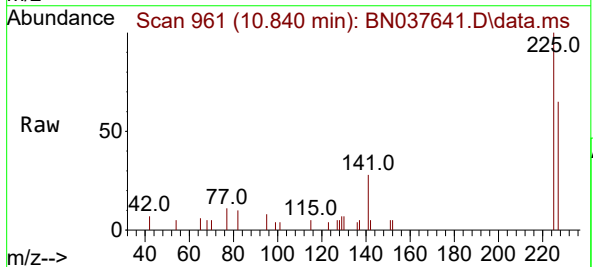
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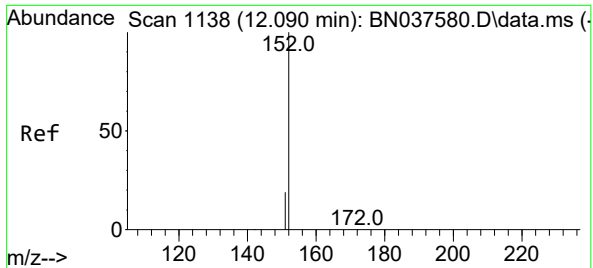
Tgt Ion:	128	Resp:	6566
Ion Ratio	Lower	Upper	
128	100		
129	12.0	9.8	14.6
127	14.3	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.460 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:	225	Resp:	1717
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	63.9	50.8	76.2

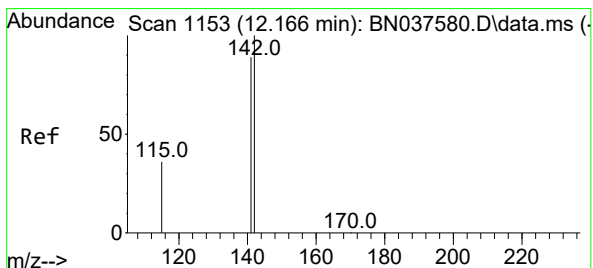
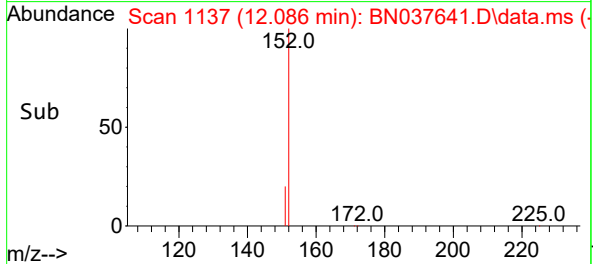
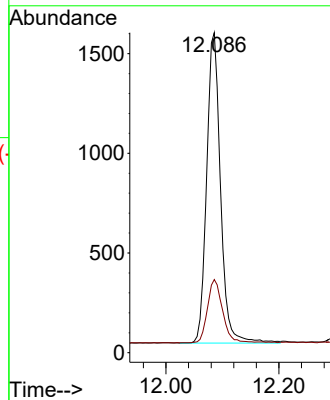
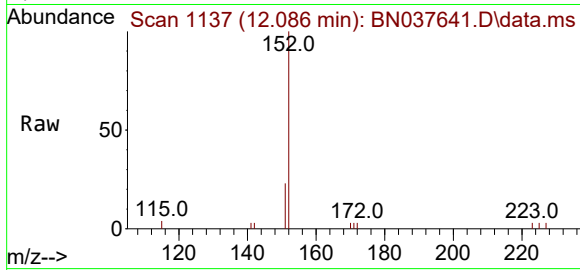




#11
2-Methylnaphthalene-d10
Concen: 0.340 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

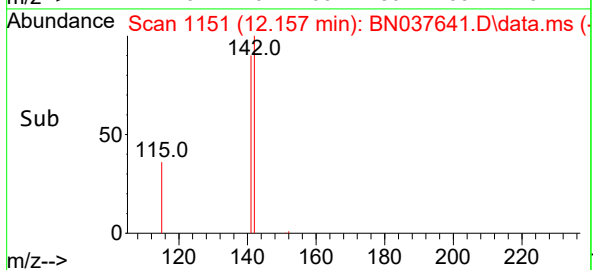
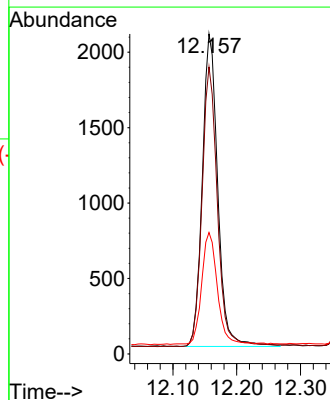
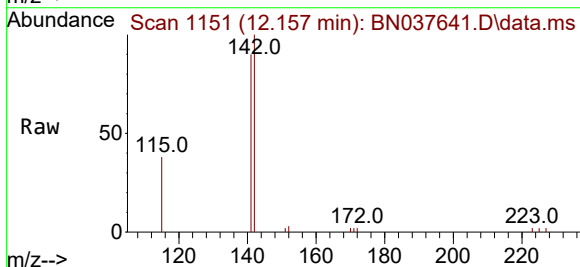
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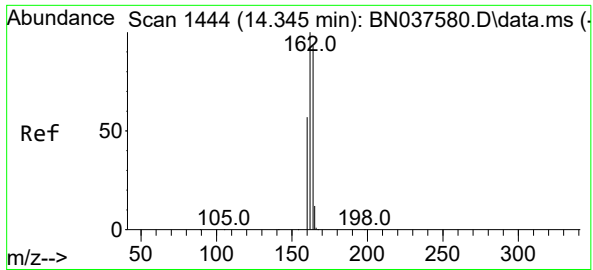
Tgt Ion:152 Resp: 2649
Ion Ratio Lower Upper
152 100
151 22.0 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.364 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:142 Resp: 3486
Ion Ratio Lower Upper
142 100
141 89.7 71.4 107.0
115 38.0 30.2 45.4

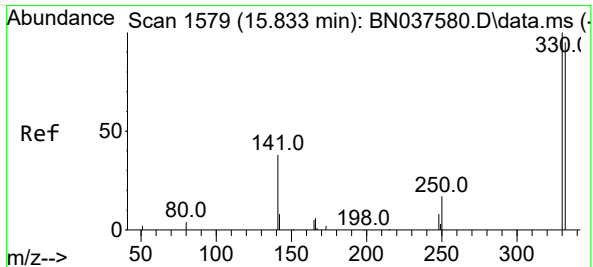
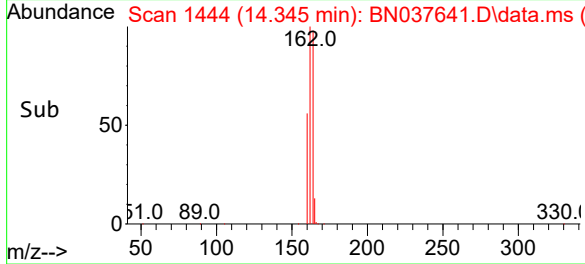
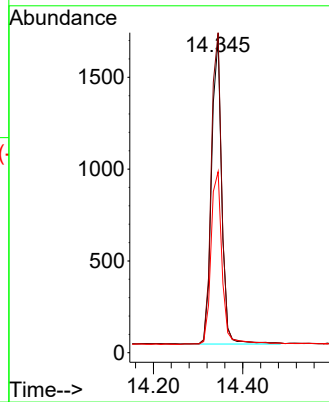
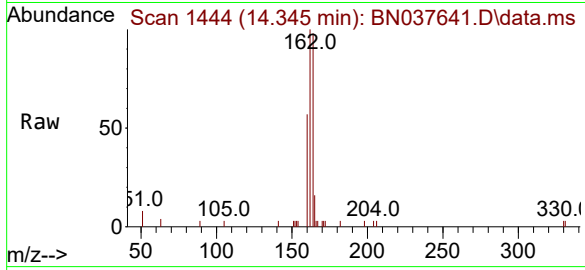




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

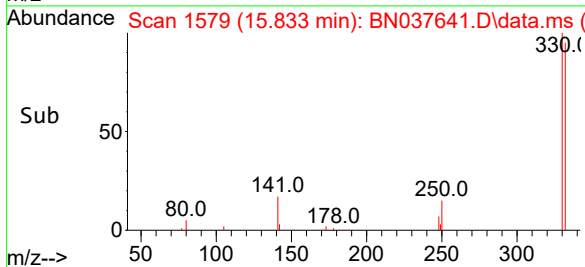
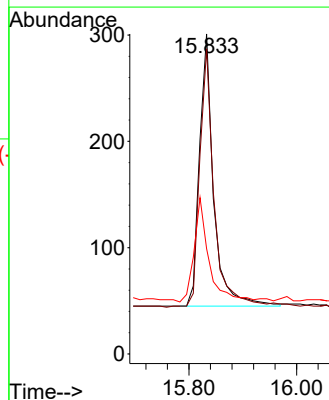
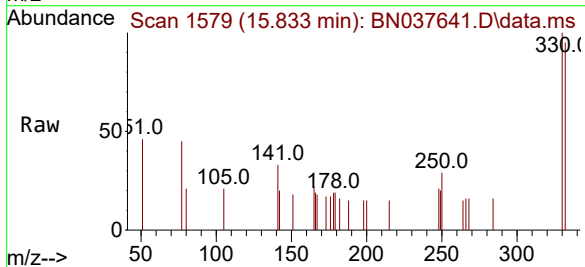
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ClientSampleId :
SSTDCCC0.4EC

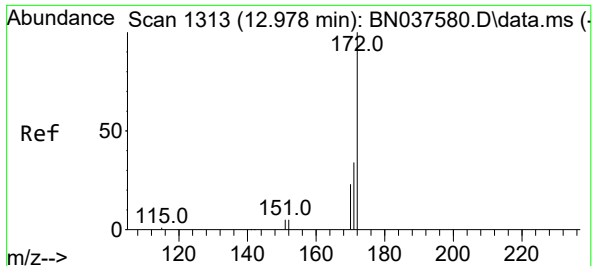
Tgt Ion:	164	Resp:	2634
Ion	Ratio	Lower	Upper
164	100		
162	101.9	85.5	128.3
160	57.7	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.407 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:	330	Resp:	469
Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.4	116.0
141	38.6	30.9	46.3

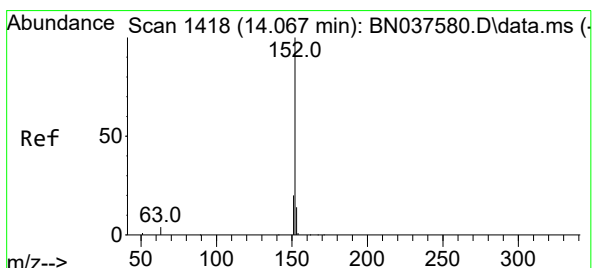
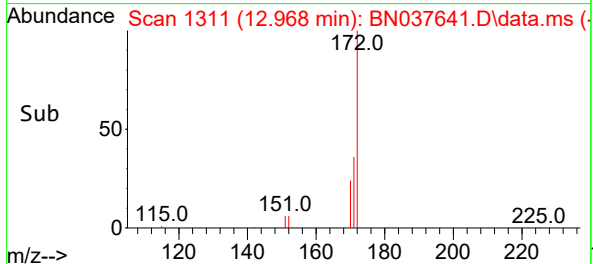
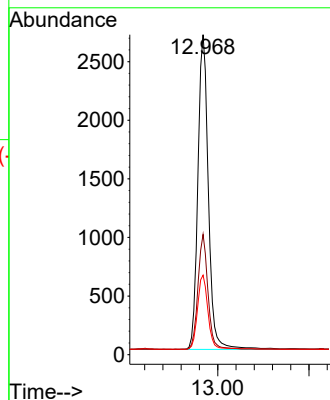
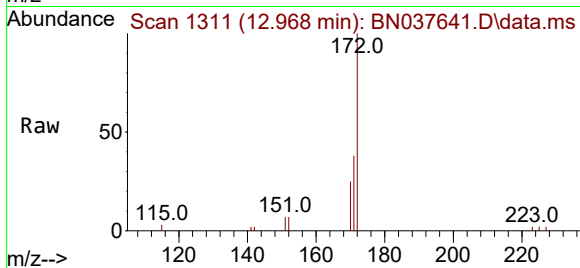




#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

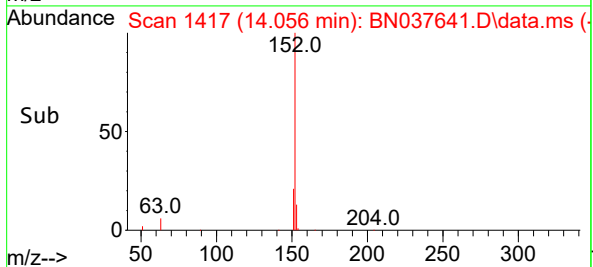
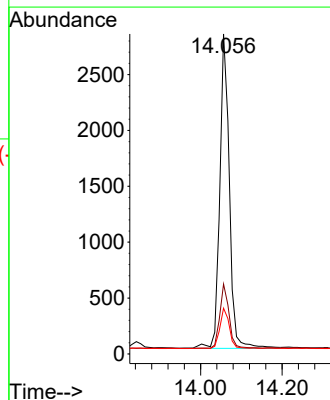
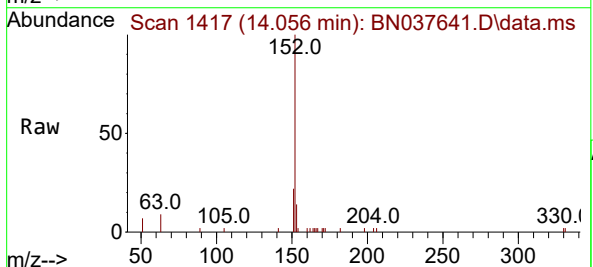
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

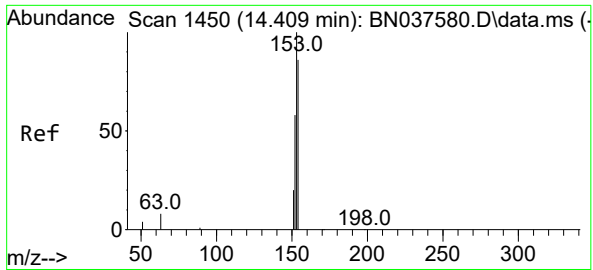
Tgt Ion:	172	Resp:	6098
Ion	Ratio	Lower	Upper
172	100		
171	37.6	28.2	42.4
170	24.9	19.2	28.8



#16
Acenaphthylene
Concen: 0.387 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:	152	Resp:	4568
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.1	24.1
153	13.0	10.7	16.1

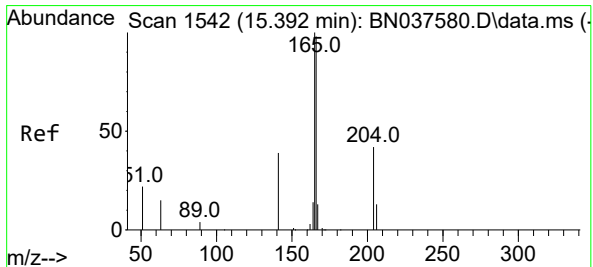
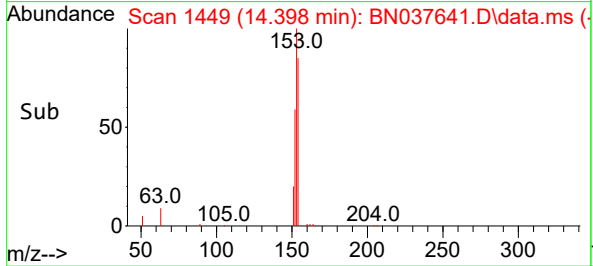
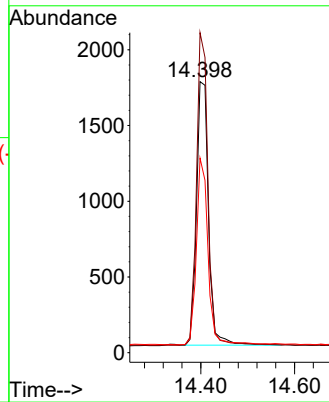
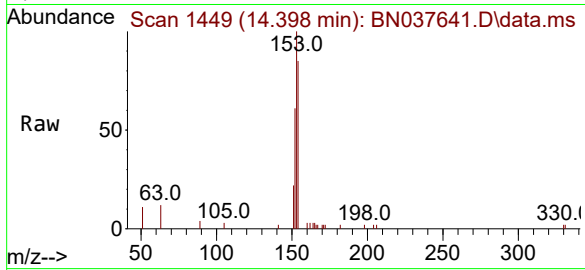




#17
Acenaphthene
Concen: 0.384 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.010 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

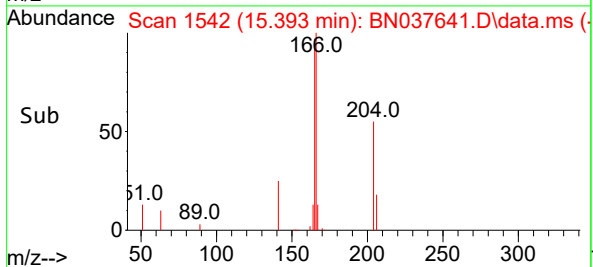
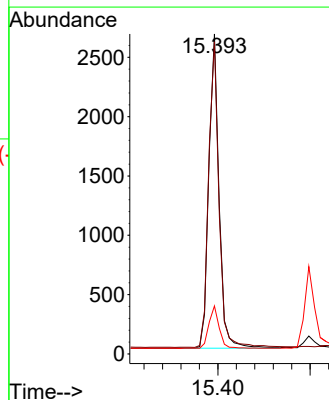
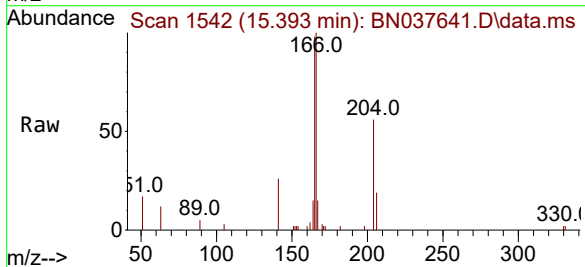
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

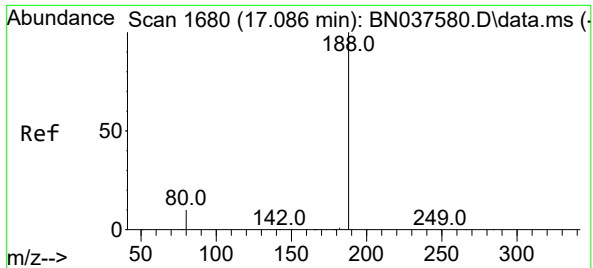
Tgt Ion:154 Resp: 3082
Ion Ratio Lower Upper
154 100
153 113.6 90.6 135.8
152 68.4 54.9 82.3



#18
Fluorene
Concen: 0.392 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:166 Resp: 4114
Ion Ratio Lower Upper
166 100
165 99.4 78.9 118.3
167 13.9 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037641.D

Acq: 20 Aug 2025 21:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

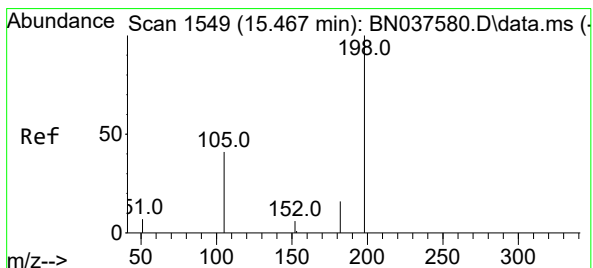
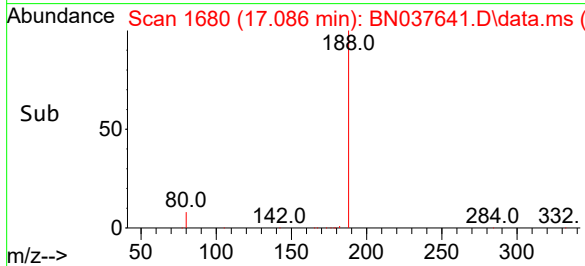
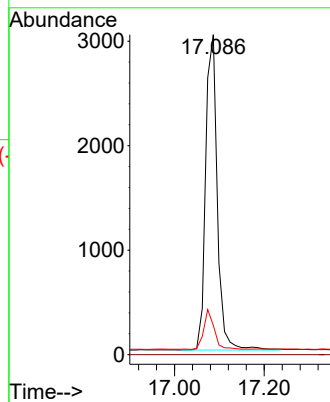
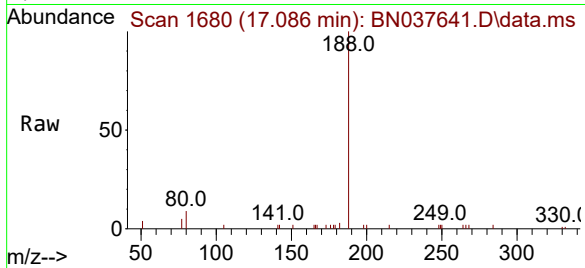
Tgt Ion:188 Resp: 5428

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.1 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.390 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037641.D

Acq: 20 Aug 2025 21:47

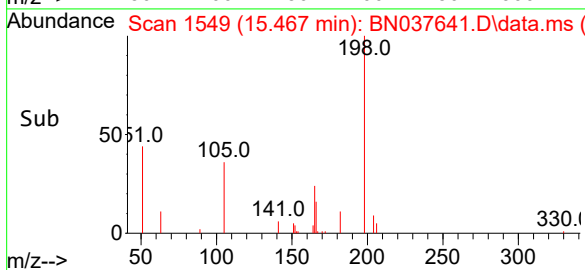
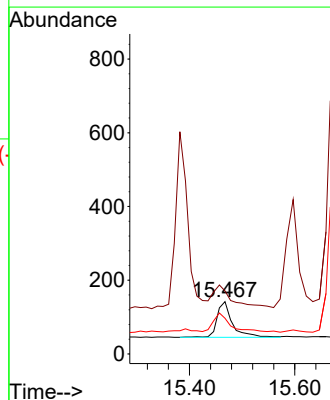
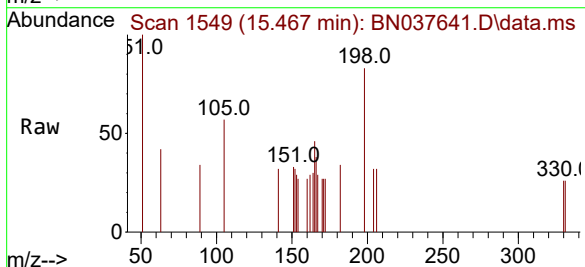
Tgt Ion:198 Resp: 206

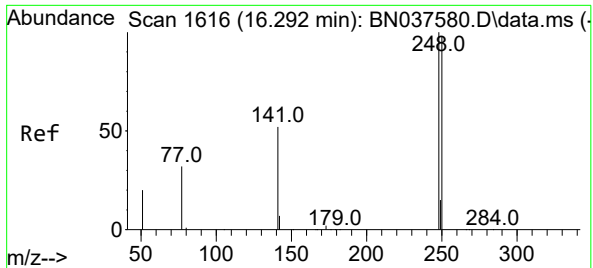
Ion Ratio Lower Upper

198 100

51 120.4 81.0 121.6

105 68.3 52.5 78.7

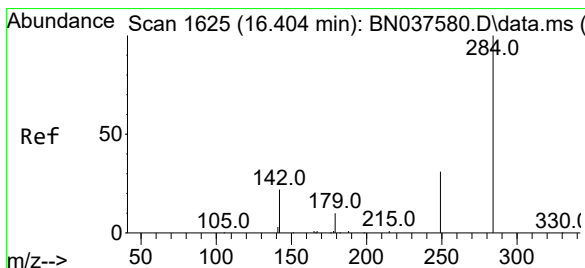
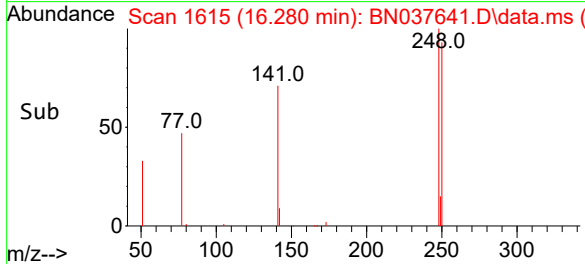
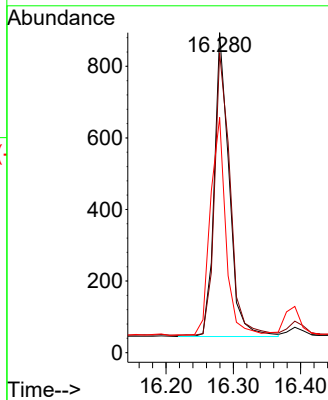
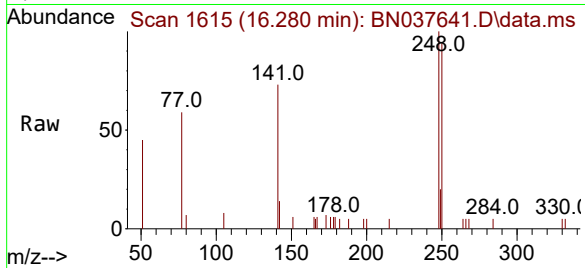




#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

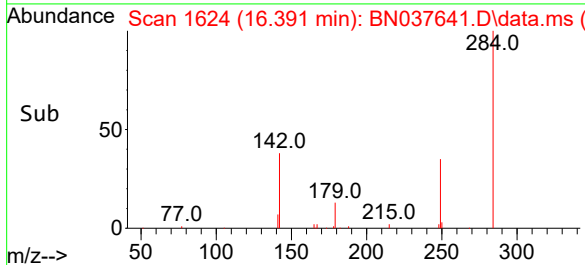
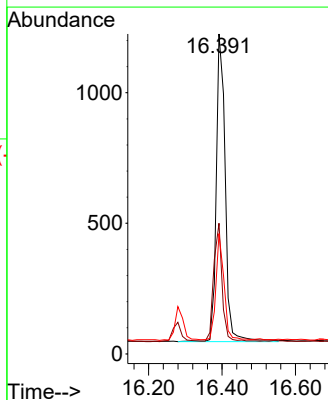
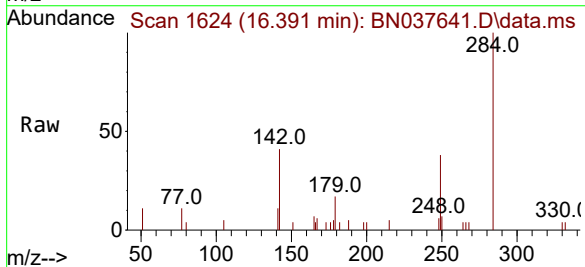
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

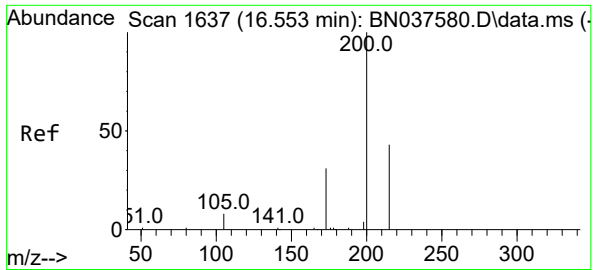
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.7	78.6	118.0
141	73.5	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.411 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.9	29.8	44.6
249	31.2	26.0	39.0

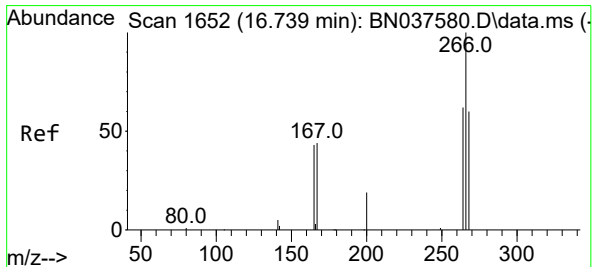
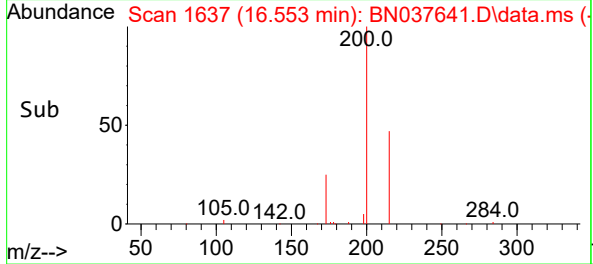
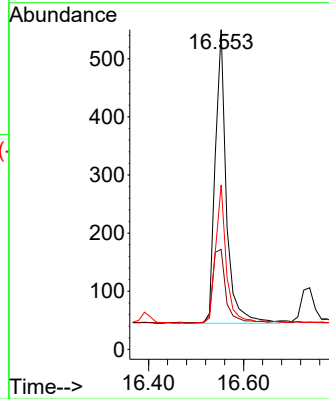
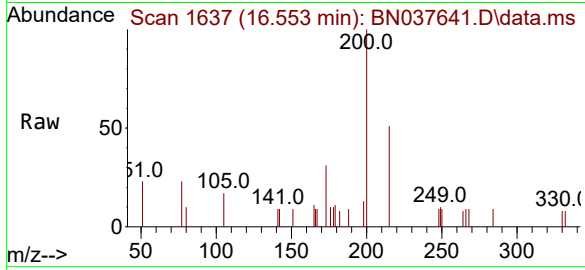




#23
Atrazine
Concen: 0.427 ng
RT: 16.553 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

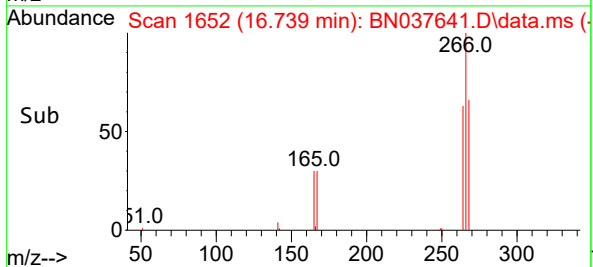
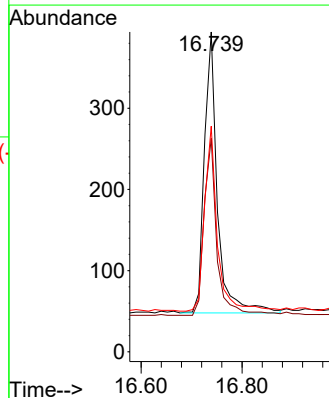
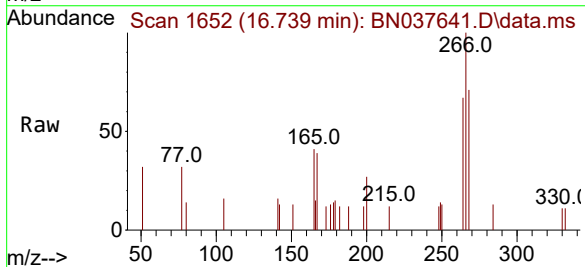
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

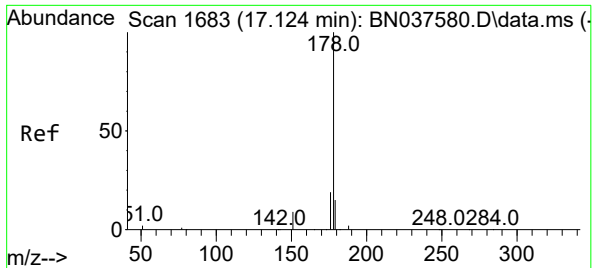
Tgt Ion:	200	Resp:	824
Ion	Ratio	Lower	Upper
200	100		
173	31.3	31.0	46.4
215	51.5	39.4	59.0



#24
Pentachlorophenol
Concen: 0.367 ng
RT: 16.739 min Scan# 1652
Delta R.T. -0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:	266	Resp:	623
Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.6	74.4
268	64.8	49.2	73.8

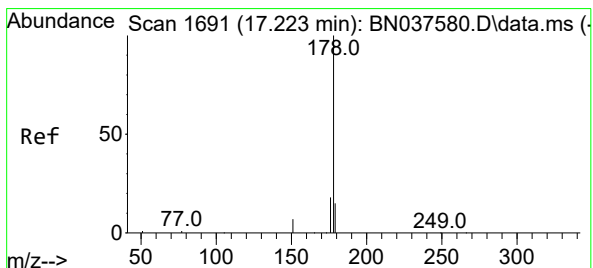
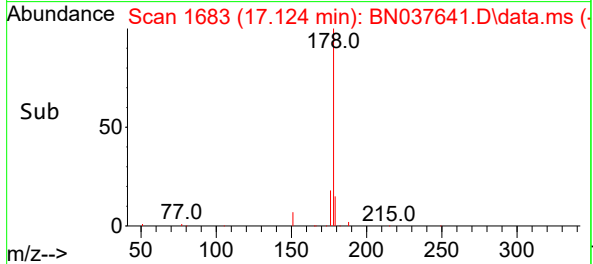
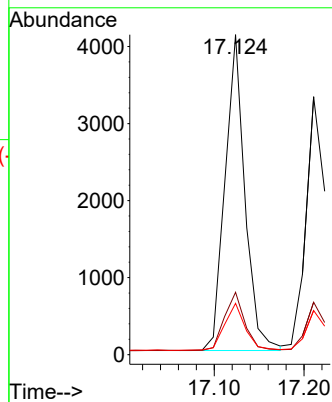
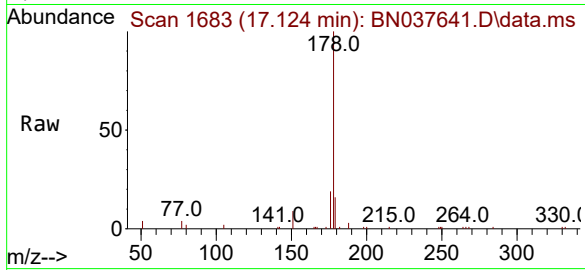




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

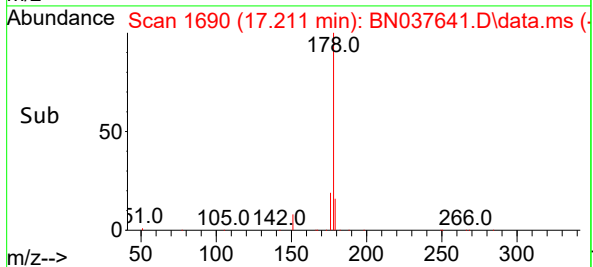
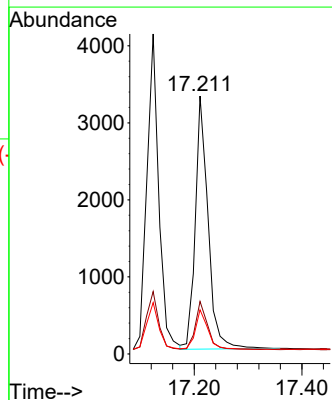
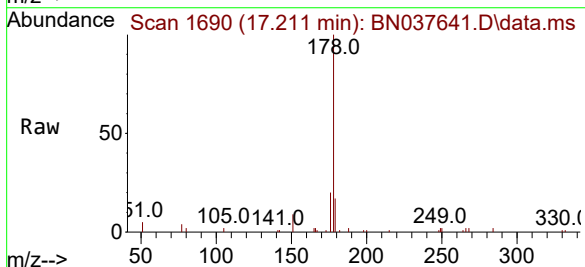
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

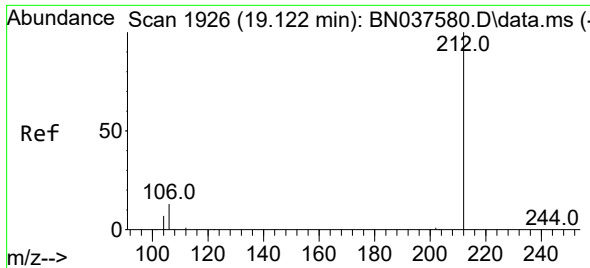
Tgt Ion:178 Resp: 6316
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.6 12.3 18.5



#26
Anthracene
Concen: 0.372 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:178 Resp: 5430
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.3 12.3 18.5

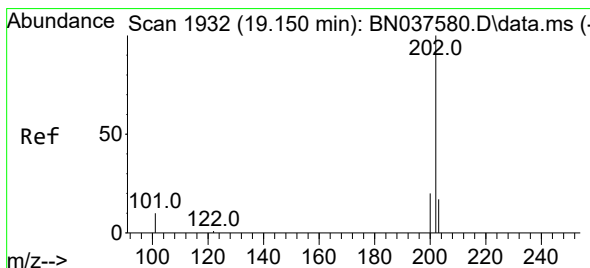
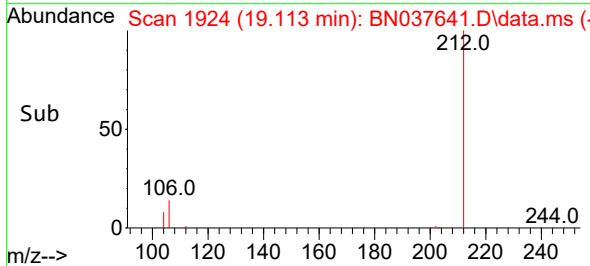
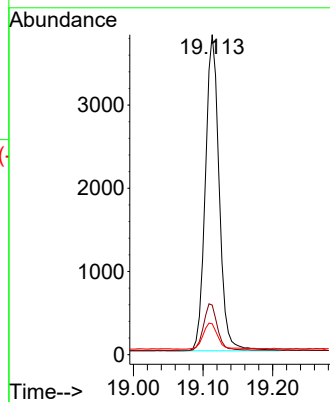
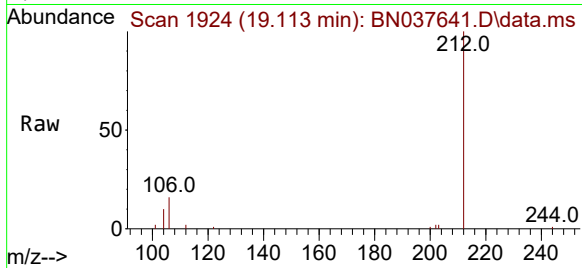




#27
Fluoranthene-d10
Concen: 0.366 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

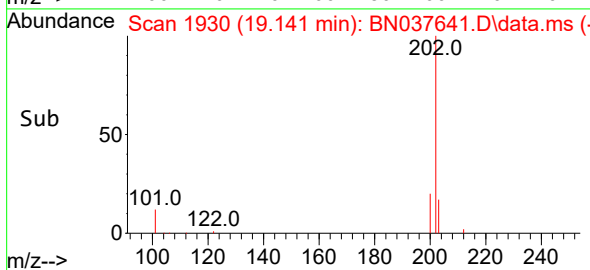
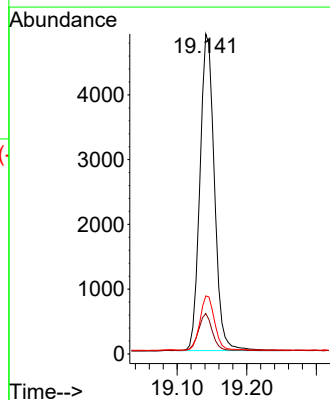
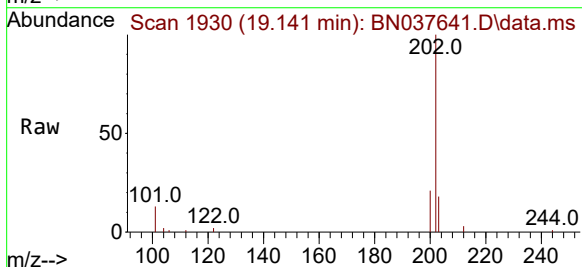
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

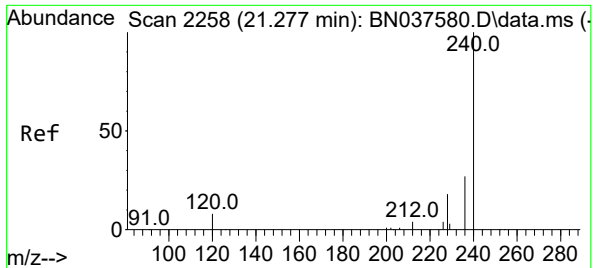
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.5	17.3
104	8.7	6.6	9.8



#28
Fluoranthene
Concen: 0.373 ng
RT: 19.141 min Scan# 1930
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.3	9.0	13.6
203	17.1	13.8	20.8

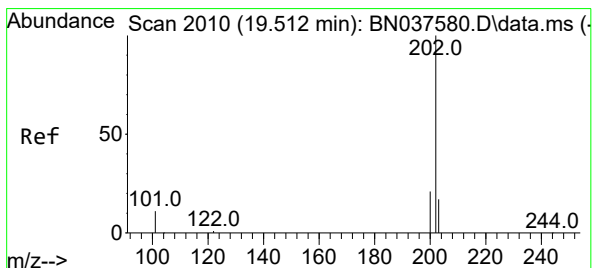
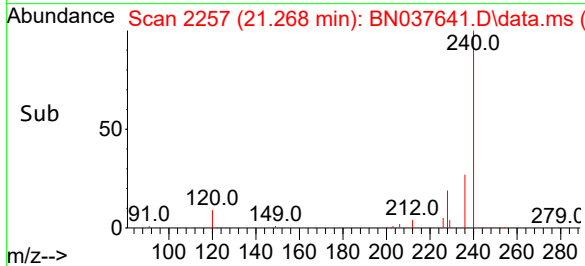
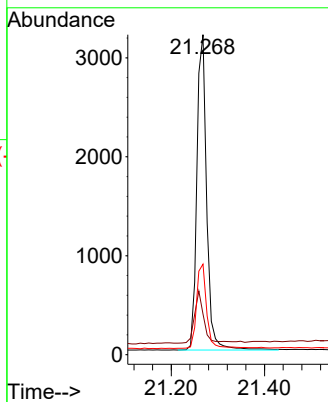
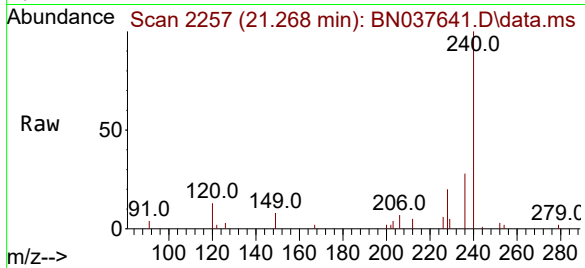




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

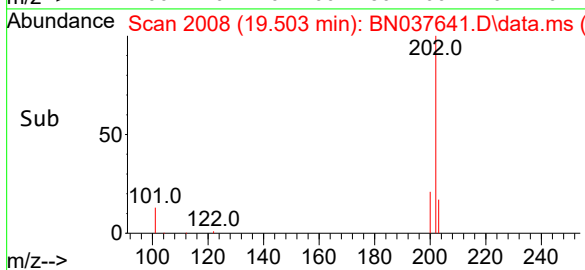
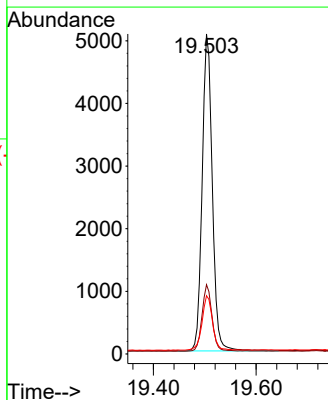
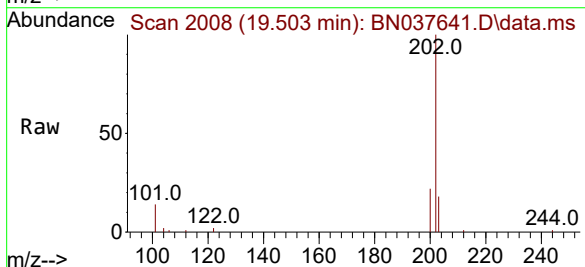
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

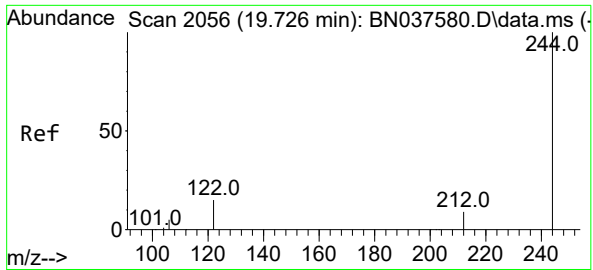
Tgt Ion:240 Resp: 4679
Ion Ratio Lower Upper
240 100
120 12.7 8.9 13.3
236 28.3 22.6 33.8



#30
Pyrene
Concen: 0.396 ng
RT: 19.503 min Scan# 2008
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:202 Resp: 6918
Ion Ratio Lower Upper
202 100
200 20.5 16.6 25.0
203 17.6 14.3 21.5

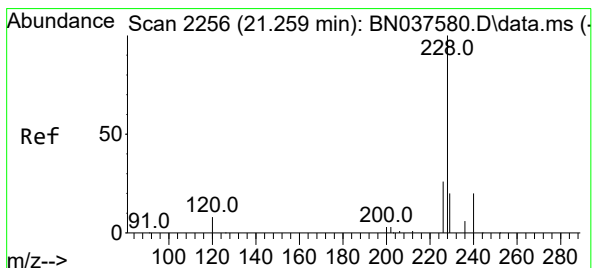
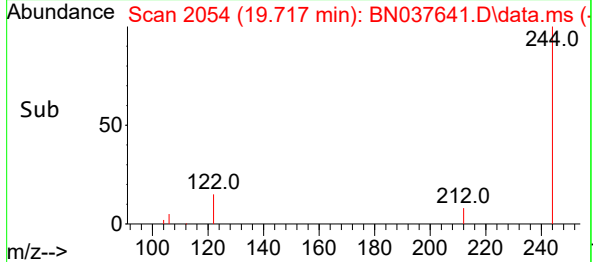
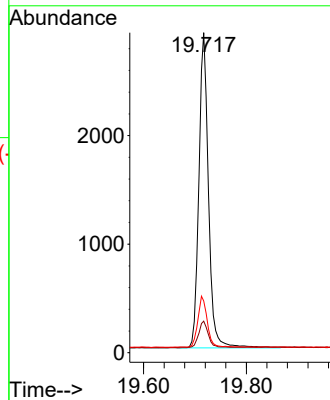
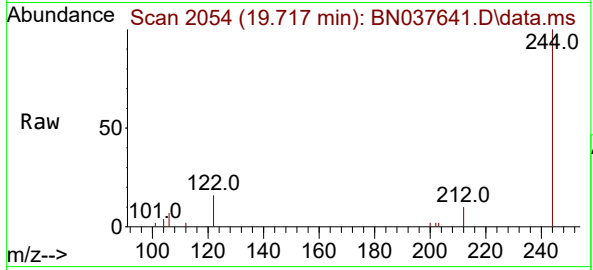




#31
Terphenyl-d14
Concen: 0.393 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

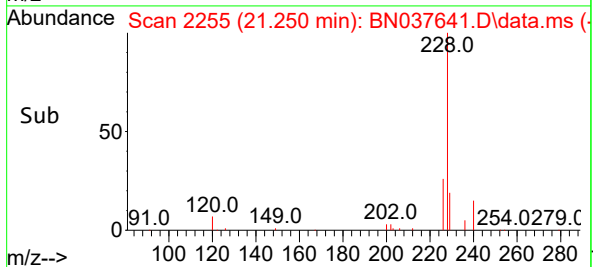
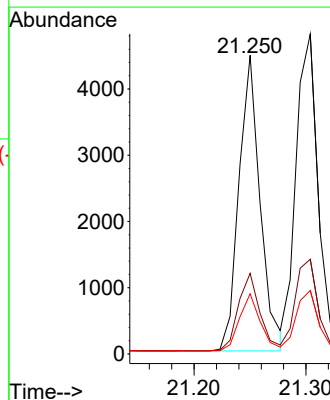
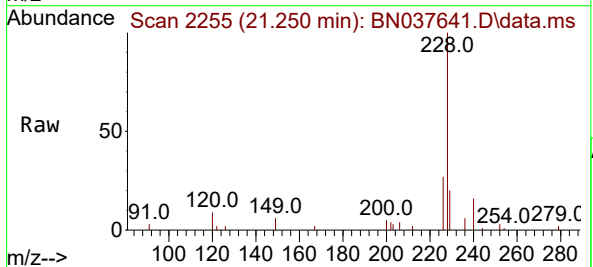
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

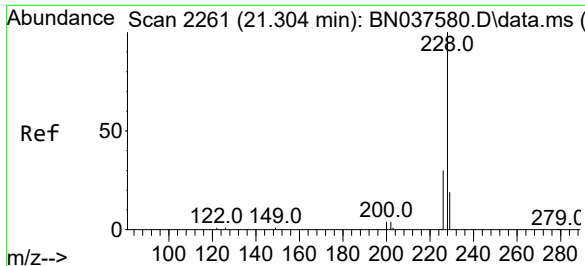
Tgt Ion:244 Resp: 3784
Ion Ratio Lower Upper
244 100
212 9.9 8.2 12.2
122 16.1 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:228 Resp: 5896
Ion Ratio Lower Upper
228 100
226 27.0 21.5 32.3
229 20.2 16.5 24.7

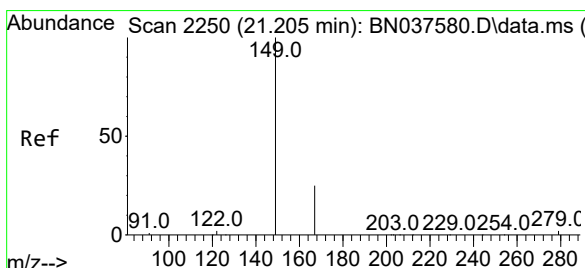
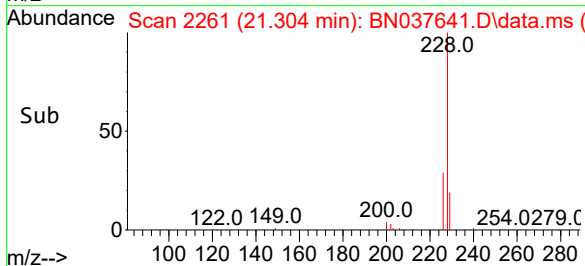
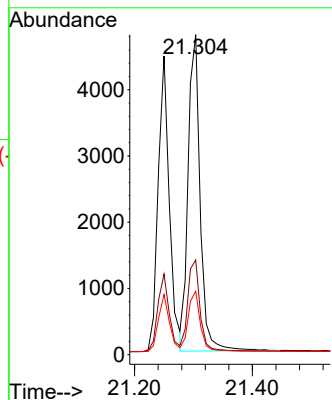
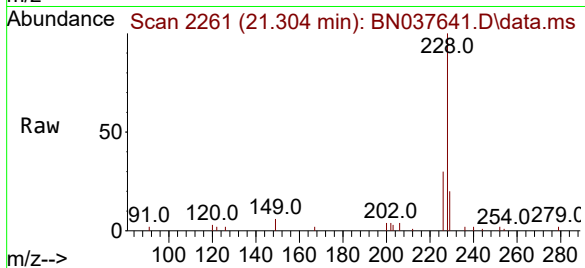




#33
Chrysene
Concen: 0.390 ng
RT: 21.304 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

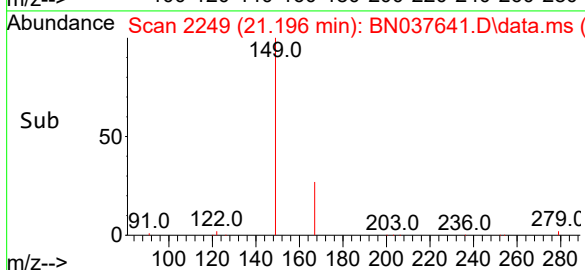
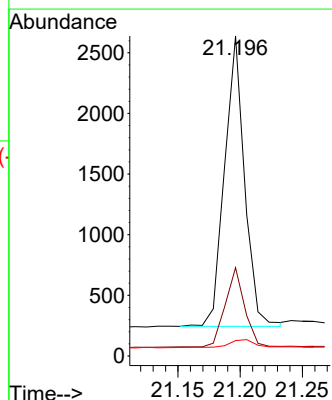
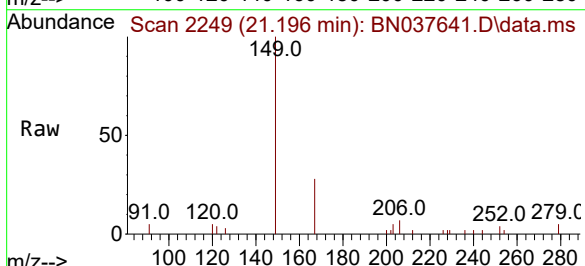
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

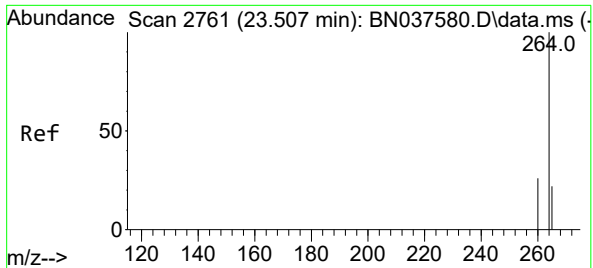
Tgt Ion:228 Resp: 6785
Ion Ratio Lower Upper
228 100
226 29.6 24.9 37.3
229 19.9 15.8 23.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.415 ng
RT: 21.196 min Scan# 2249
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

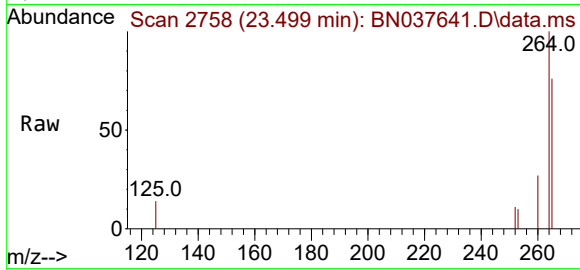
Tgt Ion:149 Resp: 2674
Ion Ratio Lower Upper
149 100
167 26.7 20.5 30.7
279 4.0 2.6 4.0#



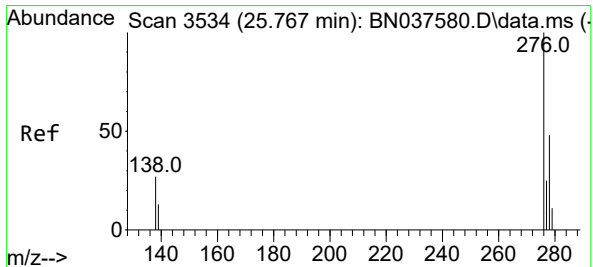
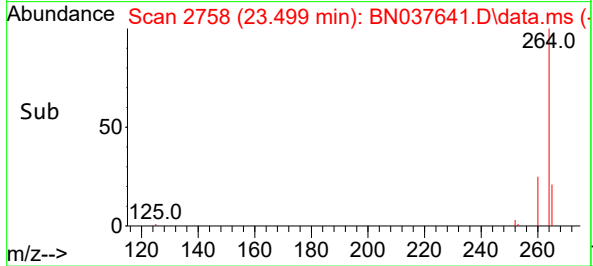
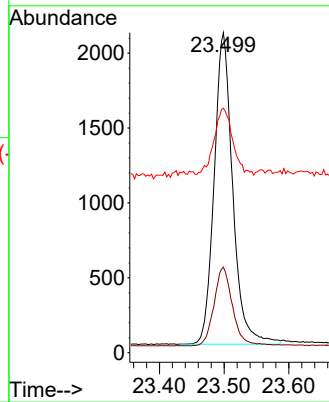


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

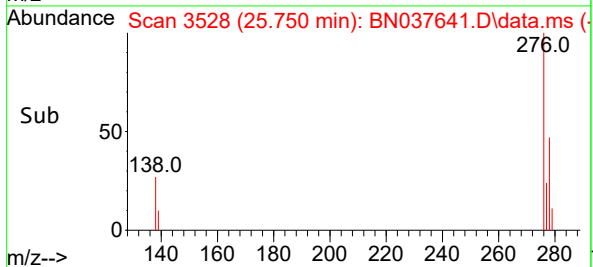
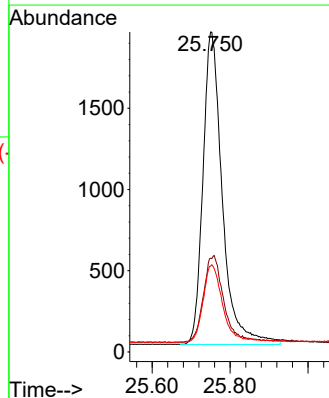
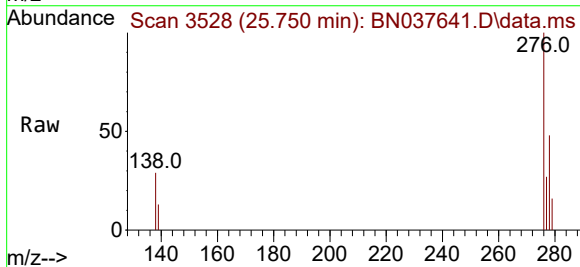


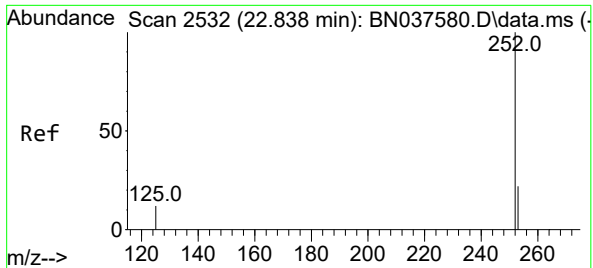
Tgt Ion:264 Resp: 4145
Ion Ratio Lower Upper
264 100
260 26.8 21.6 32.4
265 76.4 48.2 72.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.750 min Scan# 3528
Delta R.T. -0.017 min
Lab File: BN037641.D
Acq: 20 Aug 2025 21:47

Tgt Ion:276 Resp: 6653
Ion Ratio Lower Upper
276 100
138 29.0 23.3 34.9
277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.415 ng

RT: 22.826 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN037641.D

Acq: 20 Aug 2025 21:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

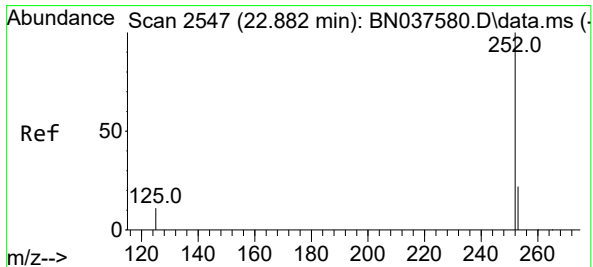
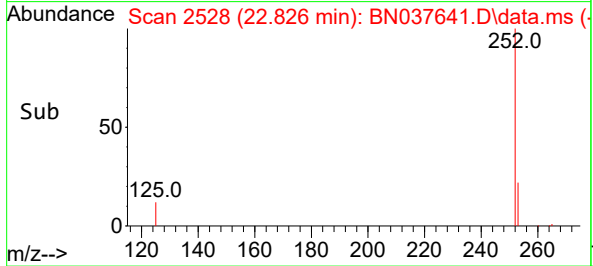
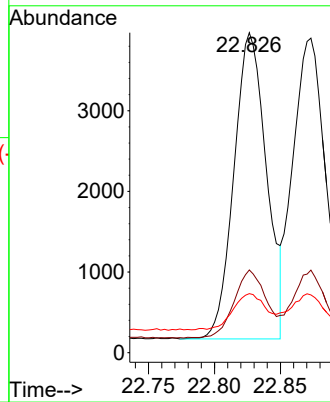
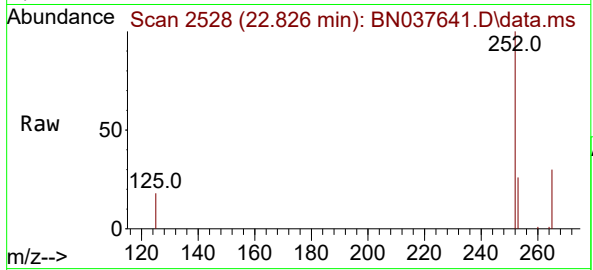
Tgt Ion:252 Resp: 6519

Ion Ratio Lower Upper

252 100

253 25.8 20.0 30.0

125 18.5 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.380 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.009 min

Lab File: BN037641.D

Acq: 20 Aug 2025 21:47

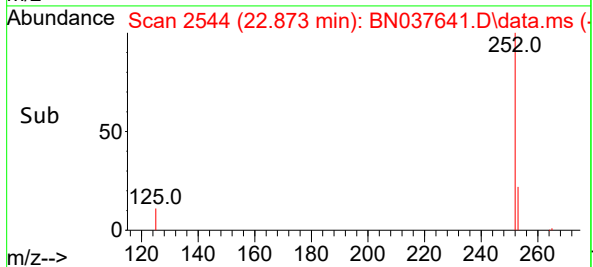
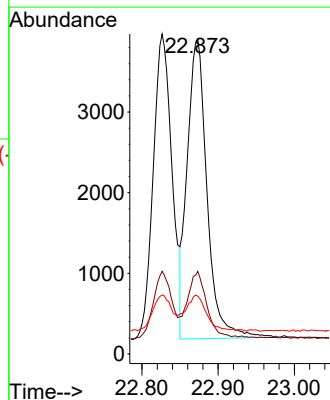
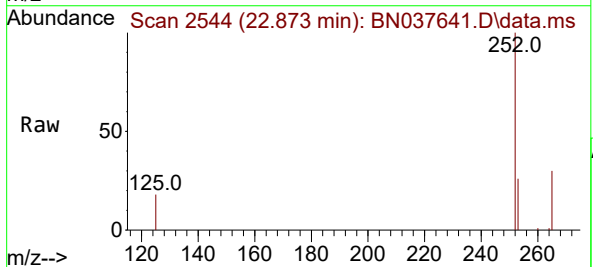
Tgt Ion:252 Resp: 6736

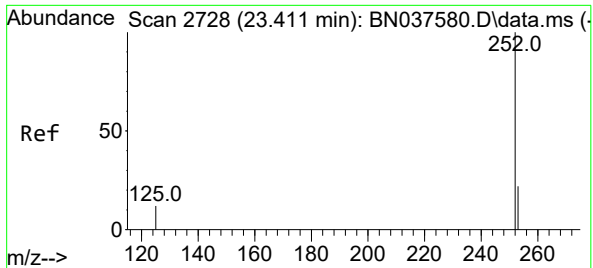
Ion Ratio Lower Upper

252 100

253 26.2 19.9 29.9

125 18.4 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.399 min Scan# 21

Delta R.T. -0.011 min

Lab File: BN037641.D

Acq: 20 Aug 2025 21:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

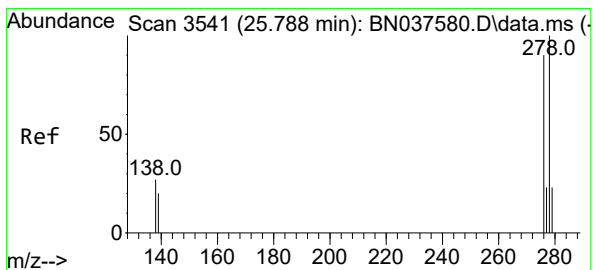
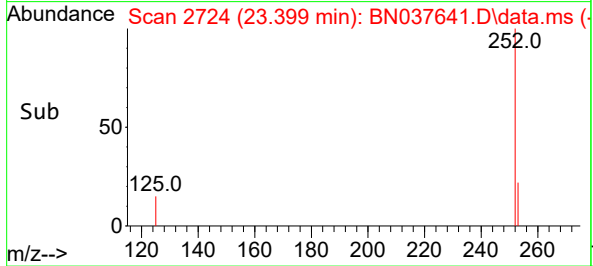
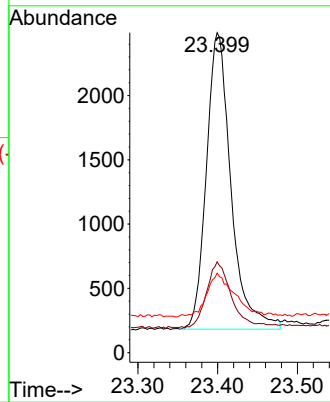
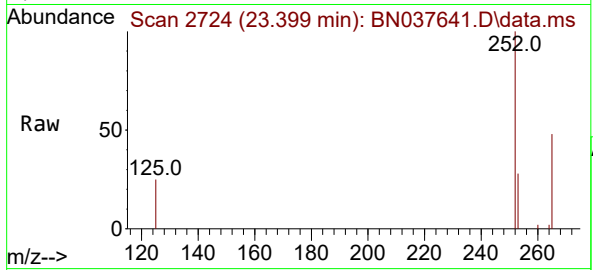
Tgt Ion:252 Resp: 4941

Ion Ratio Lower Upper

252 100

253 28.4 21.6 32.4

125 24.8 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

RT: 25.768 min Scan# 3534

Delta R.T. -0.020 min

Lab File: BN037641.D

Acq: 20 Aug 2025 21:47

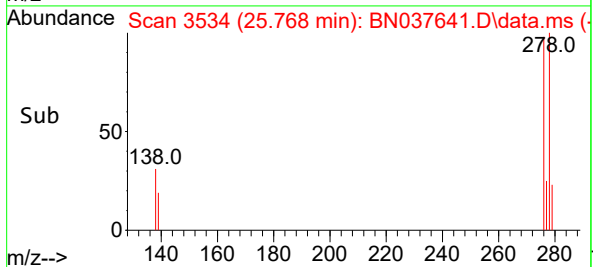
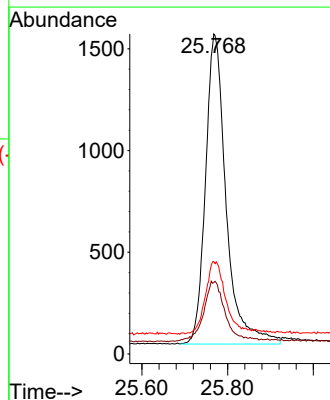
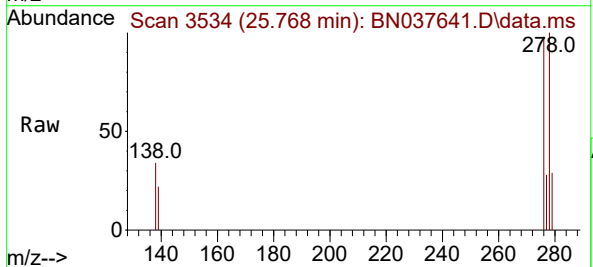
Tgt Ion:278 Resp: 5088

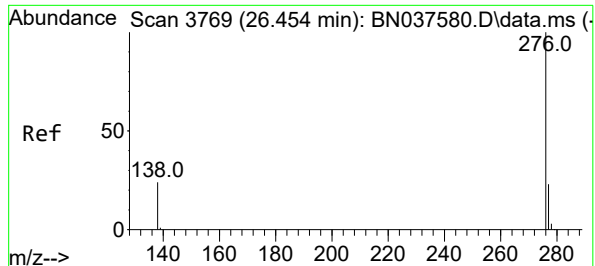
Ion Ratio Lower Upper

278 100

139 22.3 18.3 27.5

279 28.9 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.403 ng

RT: 26.437 min Scan# 31

Delta R.T. -0.017 min

Lab File: BN037641.D

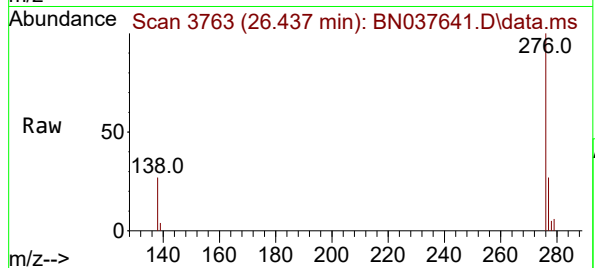
Acq: 20 Aug 2025 21:47

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



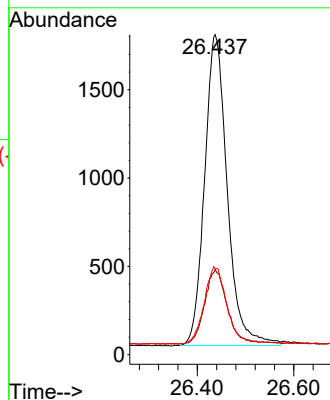
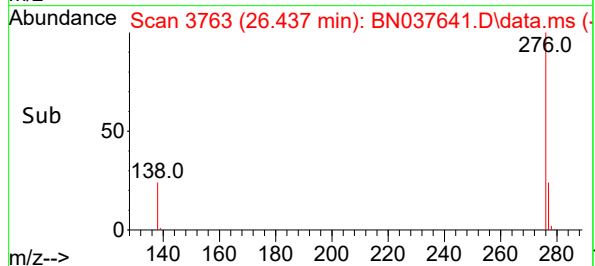
Tgt Ion:276 Resp: 5748

Ion Ratio Lower Upper

276 100

277 26.7 21.0 31.4

138 26.8 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
 Data File : BN037641.D
 Acq On : 20 Aug 2025 21:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 21 04:58:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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	122	0.00
2	1,4-Dioxane	0.383	0.350	8.6	108	0.00
3	n-Nitrosodimethylamine	0.489	0.505	-3.3	127	0.00
4 S	2-Fluorophenol	0.907	1.118	-23.3	154#	0.00
5 S	Phenol-d6	1.091	2.134	-95.6#	250#	0.00
6	bis(2-Chloroethyl)ether	0.983	1.068	-8.6	134	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	112	-0.01
8 S	Nitrobenzene-d5	0.282	0.380	-34.8#	162#	0.00
9	Naphthalene	1.065	1.145	-7.5	123	-0.01
10	Hexachlorobutadiene	0.260	0.299	-15.0	127	-0.01
11 SURR	2-Methylnaphthalene-d10	0.544	0.462	15.1	102	0.00
12	2-Methylnaphthalene	0.668	0.608	9.0	107	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
14 S	2,4,6-Tribromophenol	0.175	0.178	-1.7	118	0.00
15 S	2-Fluorobiphenyl	2.313	2.315	-0.1	105	0.00
16	Acenaphthylene	1.793	1.734	3.3	105	-0.01
17	Acenaphthene	1.220	1.170	4.1	104	-0.01
18	Fluorene	1.596	1.562	2.1	107	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
20	4,6-Dinitro-2-methylphenol	0.053	0.038	28.3#	89	0.00
21	4-Bromophenyl-phenylether	0.251	0.239	4.8	110	-0.01
22	Hexachlorobenzene	0.356	0.366	-2.8	111	-0.01
23	Atrazine	0.142	0.152	-7.0	126	0.00
24	Pentachlorophenol	0.125	0.115	8.0	109	0.00
25	Phenanthrene	1.216	1.164	4.3	107	0.00
26	Anthracene	1.077	1.000	7.1	108	-0.01
27 SURR	Fluoranthene-d10	1.052	0.964	8.4	109	0.00
28	Fluoranthene	1.397	1.302	6.8	108	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	108	0.00
30	Pyrene	1.495	1.479	1.1	109	0.00
31 S	Terphenyl-d14	0.823	0.809	1.7	110	0.00
32	Benzo(a)anthracene	1.336	1.260	5.7	108	0.00
33	Chrysene	1.489	1.450	2.6	110	0.00
34	Bis(2-ethylhexyl)phthalate	0.551	0.571	-3.6	119	0.00
35 I	Perylene-d12	1.000	1.000	0.0	99	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.605	4.8	99	-0.02
37	Benzo(b)fluoranthene	1.516	1.573	-3.8	116	-0.01
38	Benzo(k)fluoranthene	1.710	1.625	5.0	97	0.00
39 C	Benzo(a)pyrene	1.257	1.192	5.2	103	-0.01
40	Dibenzo(a,h)anthracene	1.308	1.228	6.1	99	-0.02
41	Benzo(g,h,i)perylene	1.378	1.387	-0.7	109	-0.02

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
 Data File : BN037641.D
 Acq On : 20 Aug 2025 21:47
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Aug 21 04:58:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

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	122	0.00
2	1,4-Dioxane	0.400	0.366	8.5	108	0.00
3	n-Nitrosodimethylamine	0.400	0.413	-3.2	127	0.00
4 S	2-Fluorophenol	0.400	0.493	-23.2	154	0.00
5 S	Phenol-d6	0.400	0.782	-95.5#	250	0.00
6	bis(2-Chloroethyl)ether	0.400	0.434	-8.5	134	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	112	-0.01
8 S	Nitrobenzene-d5	0.400	0.539	-34.8#	162	0.00
9	Naphthalene	0.400	0.430	-7.5	123	-0.01
10	Hexachlorobutadiene	0.400	0.460	-15.0	127	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.340	15.0	102	0.00
12	2-Methylnaphthalene	0.400	0.364	9.0	107	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	104	0.00
14 S	2,4,6-Tribromophenol	0.400	0.407	-1.7	118	0.00
15 S	2-Fluorobiphenyl	0.400	0.400	0.0	105	0.00
16	Acenaphthylene	0.400	0.387	3.3	105	-0.01
17	Acenaphthene	0.400	0.384	4.0	104	-0.01
18	Fluorene	0.400	0.392	2.0	107	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	108	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.390	2.5	89	0.00
21	4-Bromophenyl-phenylether	0.400	0.380	5.0	110	-0.01
22	Hexachlorobenzene	0.400	0.411	-2.7	111	-0.01
23	Atrazine	0.400	0.427	-6.7	126	0.00
24	Pentachlorophenol	0.400	0.367	8.3	109	0.00
25	Phenanthrene	0.400	0.383	4.3	107	0.00
26	Anthracene	0.400	0.372	7.0	108	-0.01
27 SURR	Fluoranthene-d10	0.400	0.366	8.5	109	0.00
28	Fluoranthene	0.400	0.373	6.8	108	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	108	0.00
30	Pyrene	0.400	0.396	1.0	109	0.00
31 S	Terphenyl-d14	0.400	0.393	1.8	110	0.00
32	Benzo(a)anthracene	0.400	0.377	5.8	108	0.00
33	Chrysene	0.400	0.390	2.5	110	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.415	-3.7	119	0.00
35 I	Perylene-d12	0.400	0.400	0.0	99	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.381	4.8	99	-0.02
37	Benzo(b)fluoranthene	0.400	0.415	-3.7	116	-0.01
38	Benzo(k)fluoranthene	0.400	0.380	5.0	97	0.00
39 C	Benzo(a)pyrene	0.400	0.379	5.3	103	-0.01
40	Dibenzo(a,h)anthracene	0.400	0.375	6.3	99	-0.02
41	Benzo(g,h,i)perylene	0.400	0.403	-0.8	109	-0.02

(#) = Out of Range

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



QC SAMPLE DATA

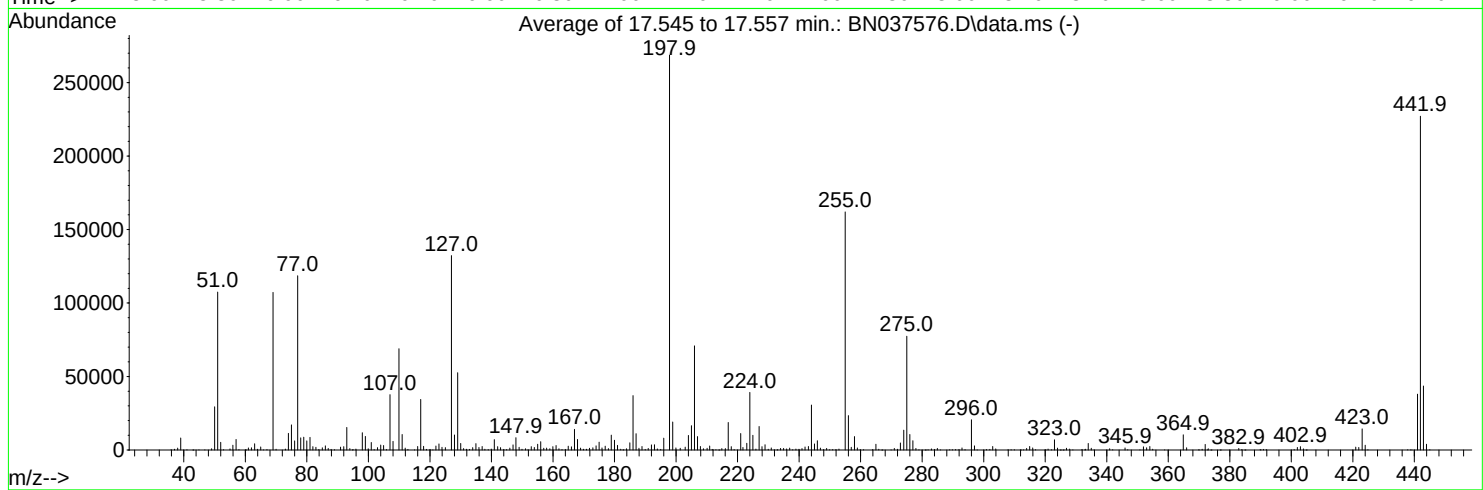
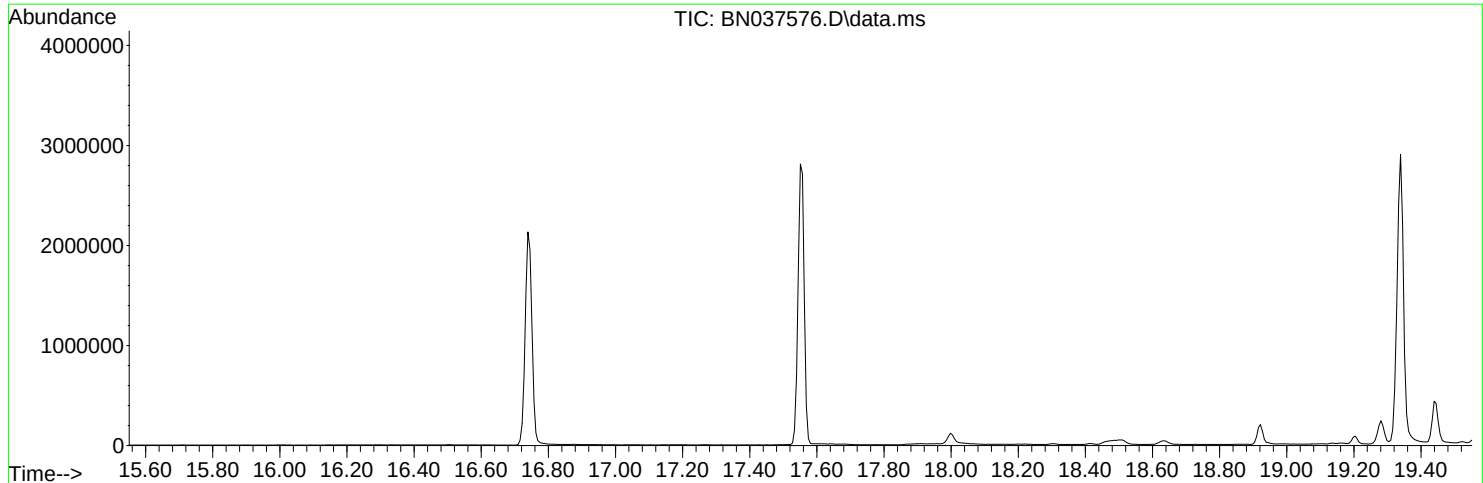
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- 2
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- 8
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- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

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



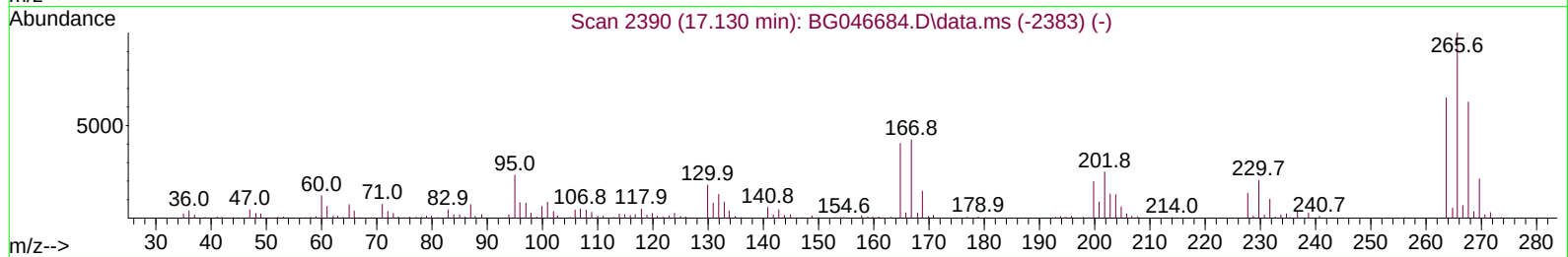
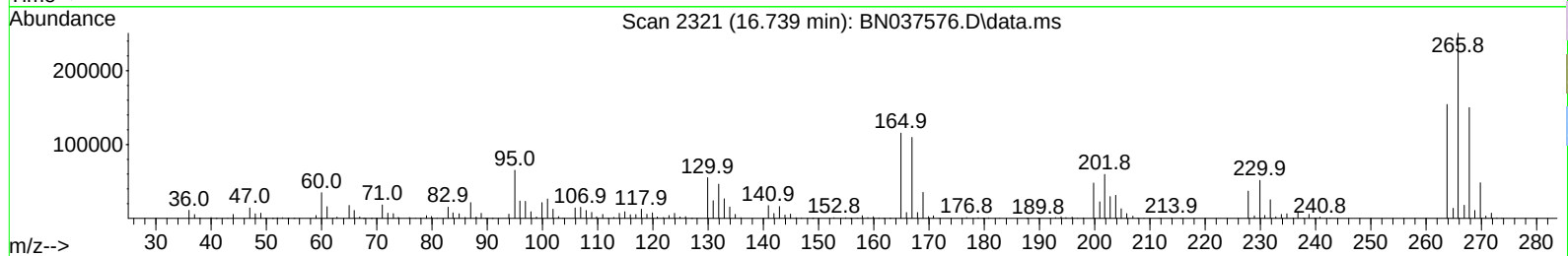
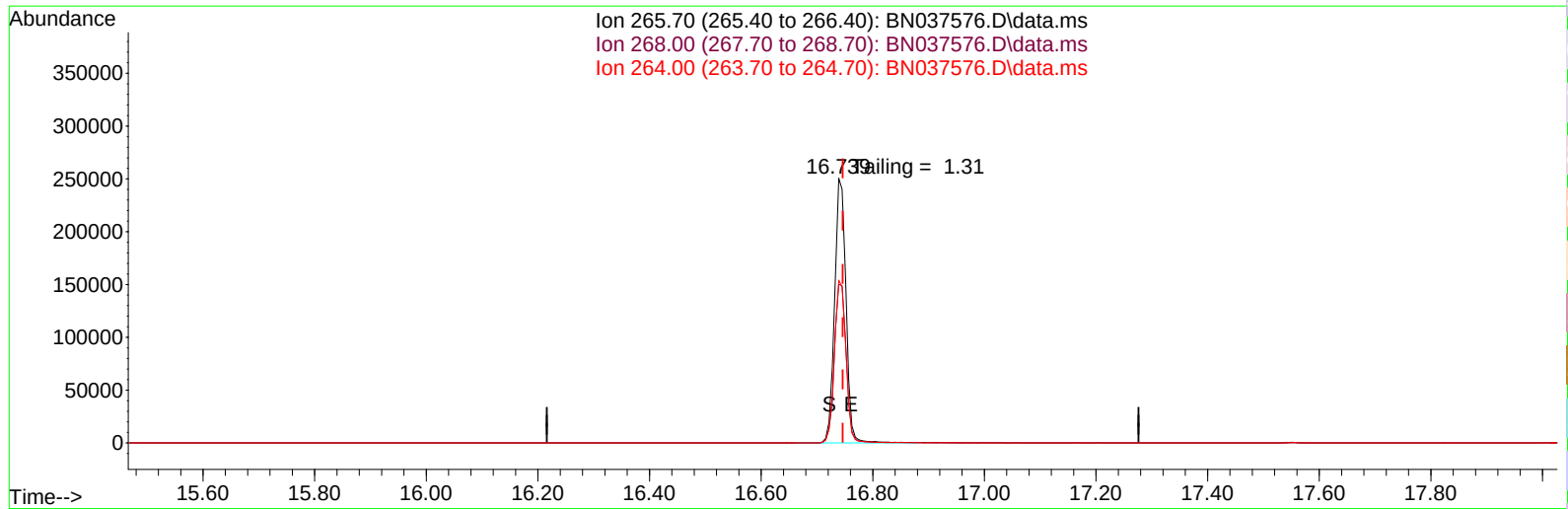
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	107227	PASS
70	69	0.00	2	0.6	598	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	268651	PASS
199	198	5	9	7.1	19058	PASS
365	198	1	100	3.9	10363	PASS
441	443	0.01	150	87.2	38019	PASS
442	442	100	100	100.0	227139	PASS
443	442	15	24	19.2	43589	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 13 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037576.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.007) 29662.60 ng

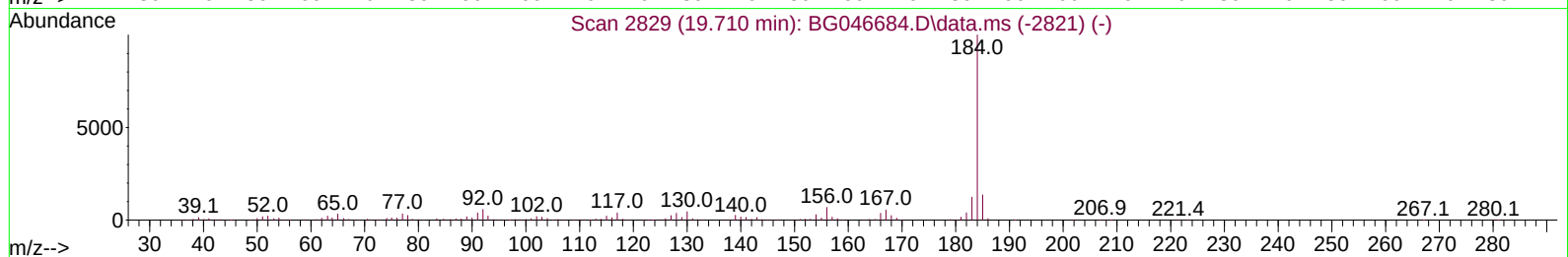
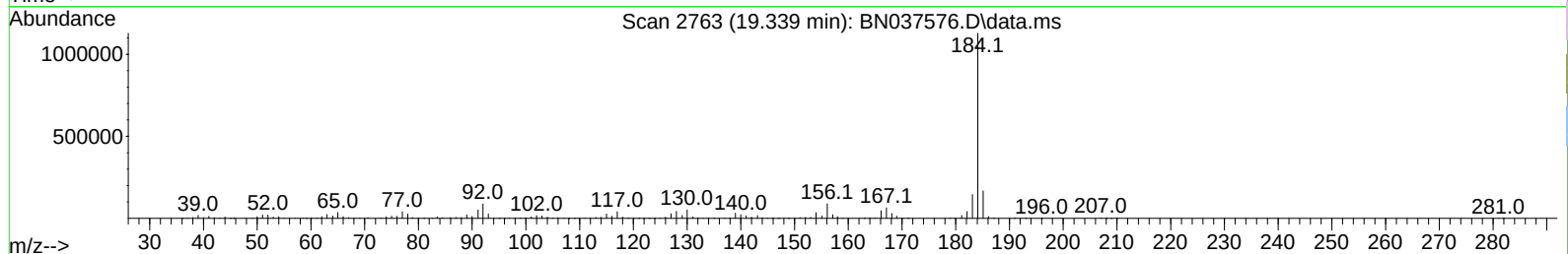
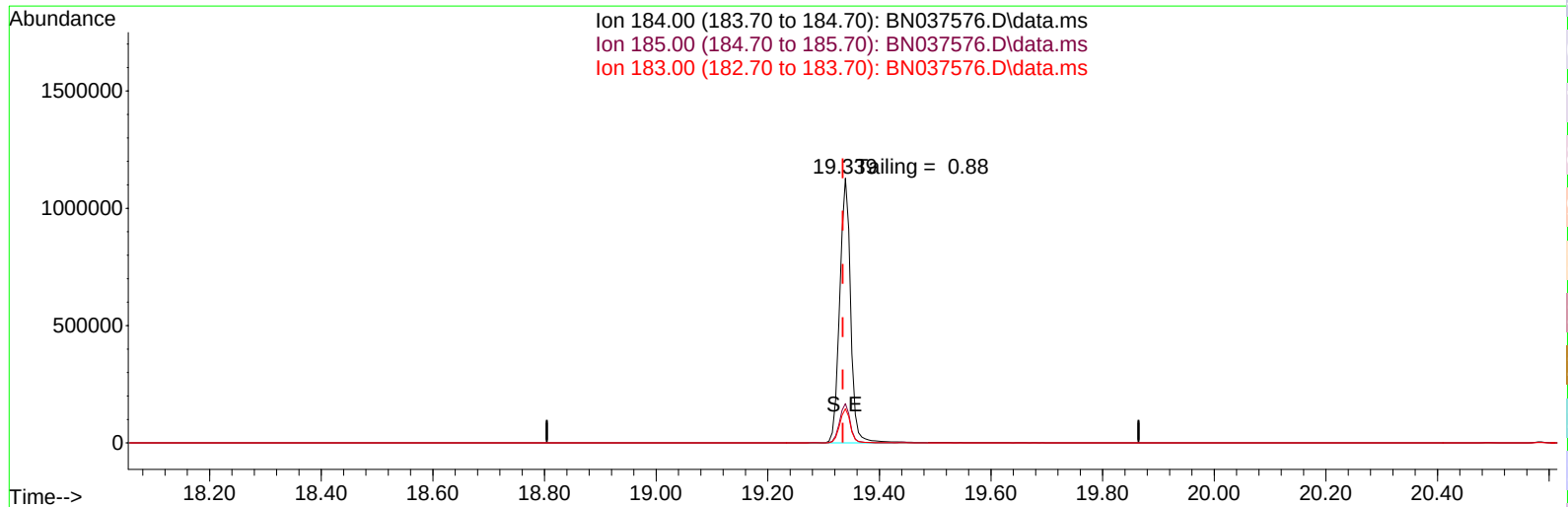
response 357790

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.87
264.00	61.60	61.53
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN081225\
Data File : BN037576.D
Acq On : 12 Aug 2025 15:05
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 13 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037576.D\data.ms

(77) Benzidine

19.339min (+ 0.005) 0.00 ng

response 1542567

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.86
183.00	13.20	12.90
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

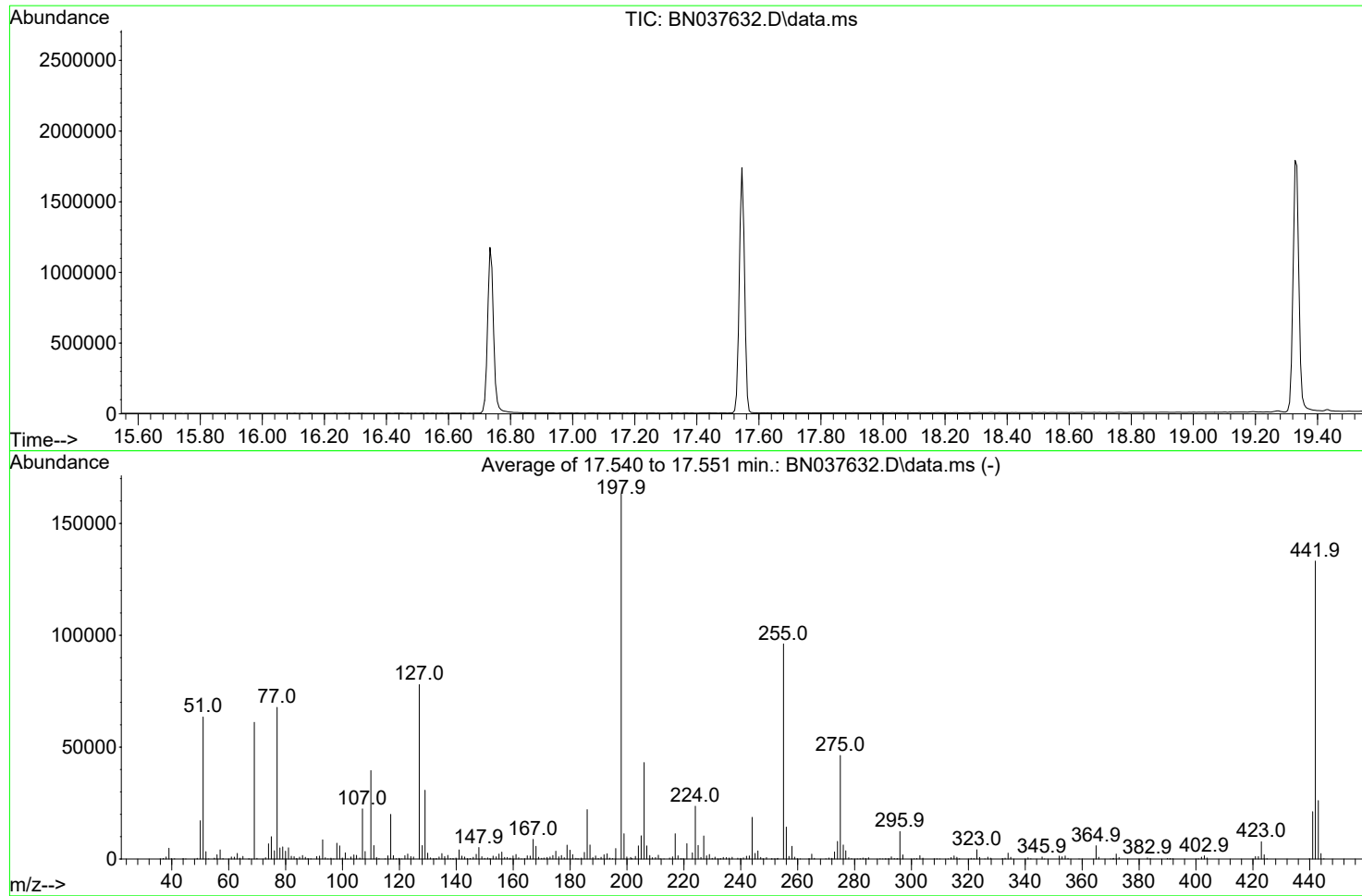
Date	Instrument Name	DFTPP Data File
8/12/2025	BNA_N	<u>BN037576.D</u>
Compound Name	Response	Retention Time
DDT	903527	20.586
DDD	9291	20.192
DDE	170	19.633
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
9461	912988	1.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037632.D
Acq On : 20 Aug 2025 16:18
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

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



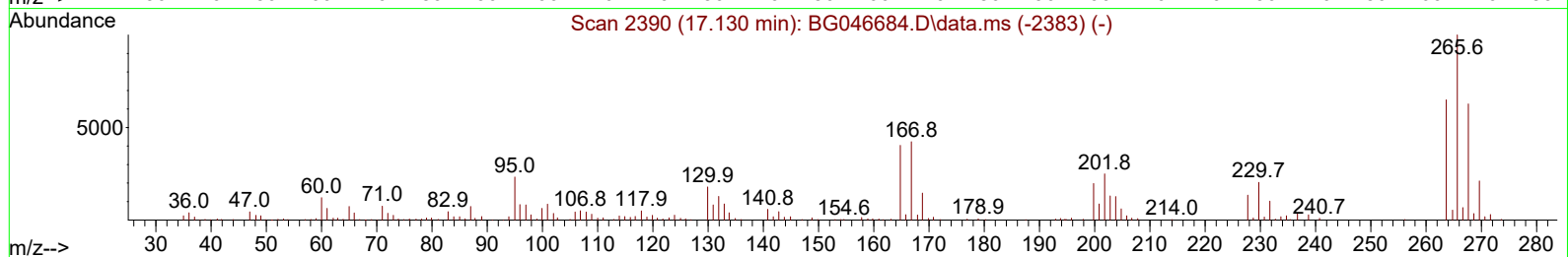
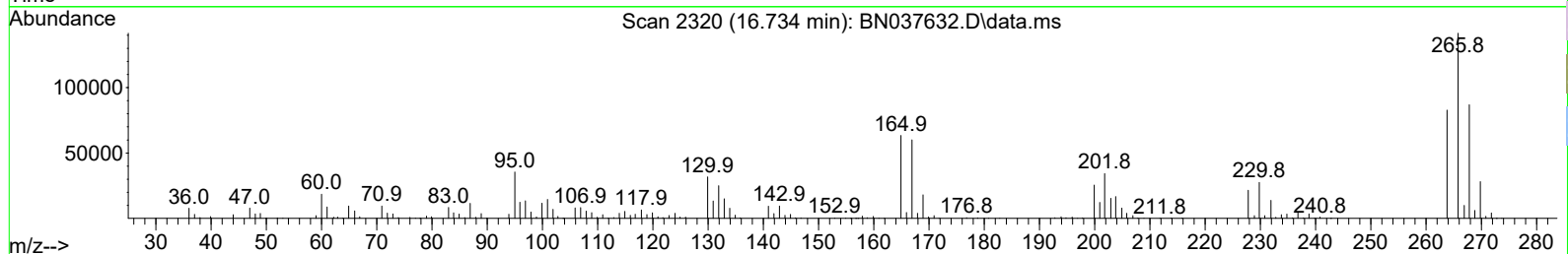
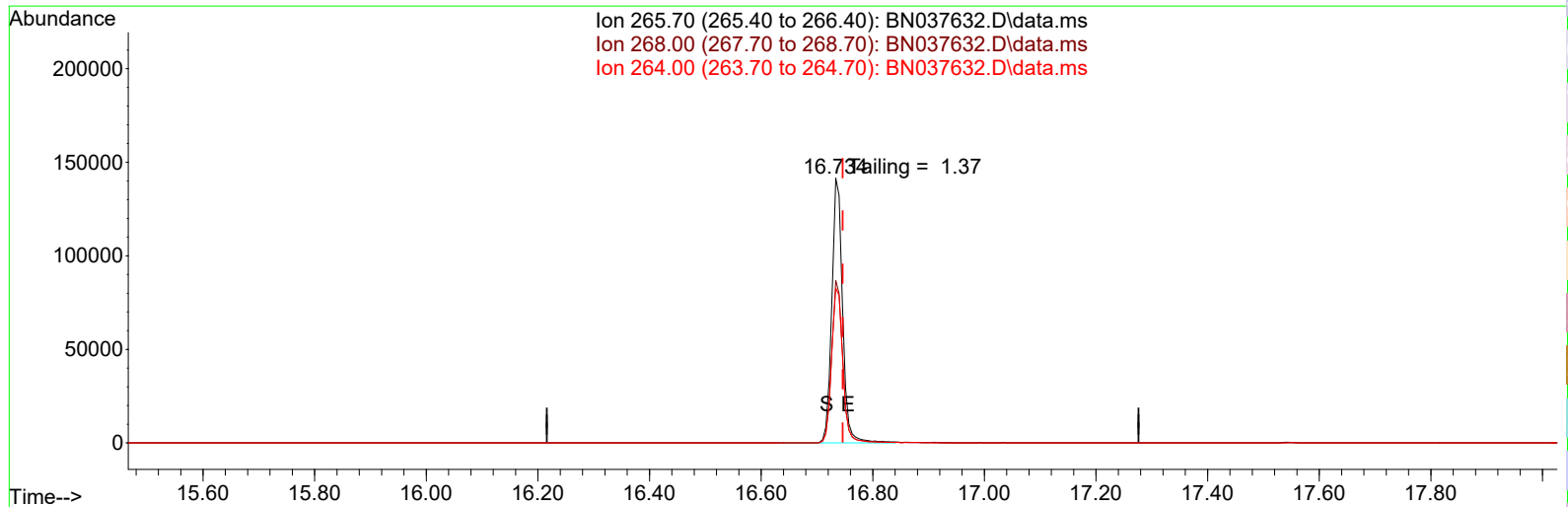
AutoFind: Scans 2457, 2458, 2459; Background Corrected with Scan 2450

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	61109	PASS
70	69	0.00	2	0.5	320	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	163179	PASS
199	198	5	9	6.9	11287	PASS
365	198	1	100	3.7	5979	PASS
441	443	0.01	150	81.1	21173	PASS
442	442	100	100	100.0	133187	PASS
443	442	15	24	19.6	26096	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037632.D
Acq On : 20 Aug 2025 16:18
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 21 05:59:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037632.D\data.ms

(70) Pentachlorophenol (C)

16.734min (-0.012) 25391.22 ng

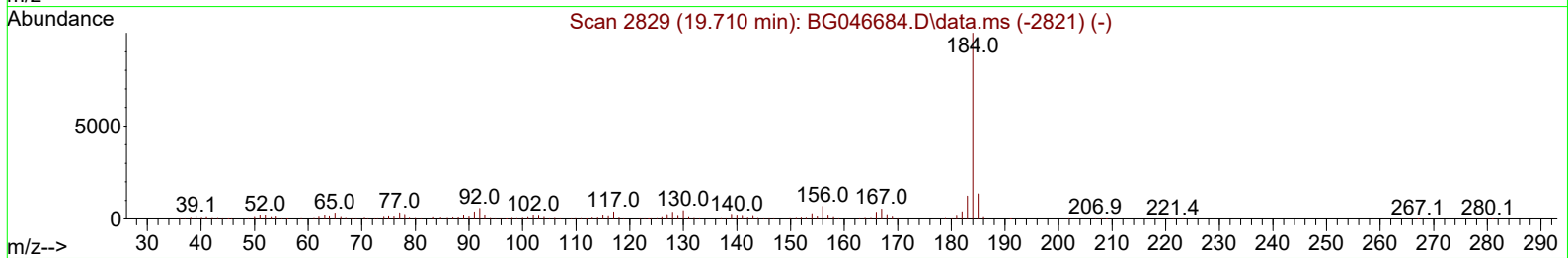
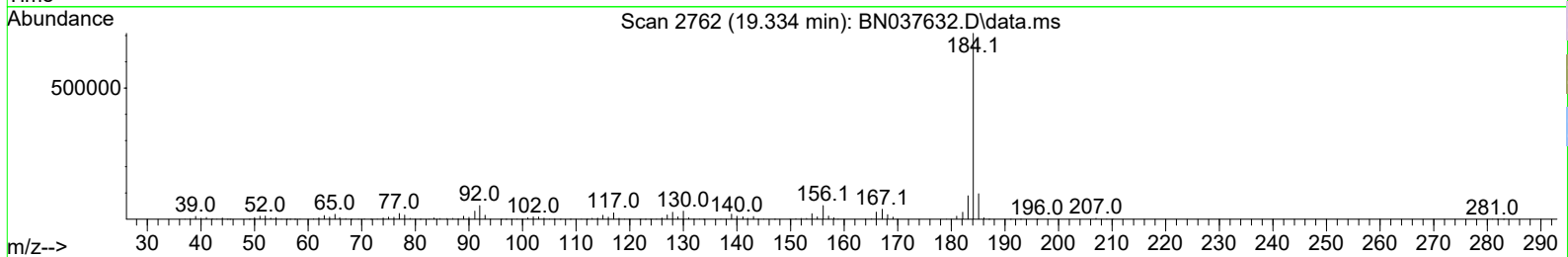
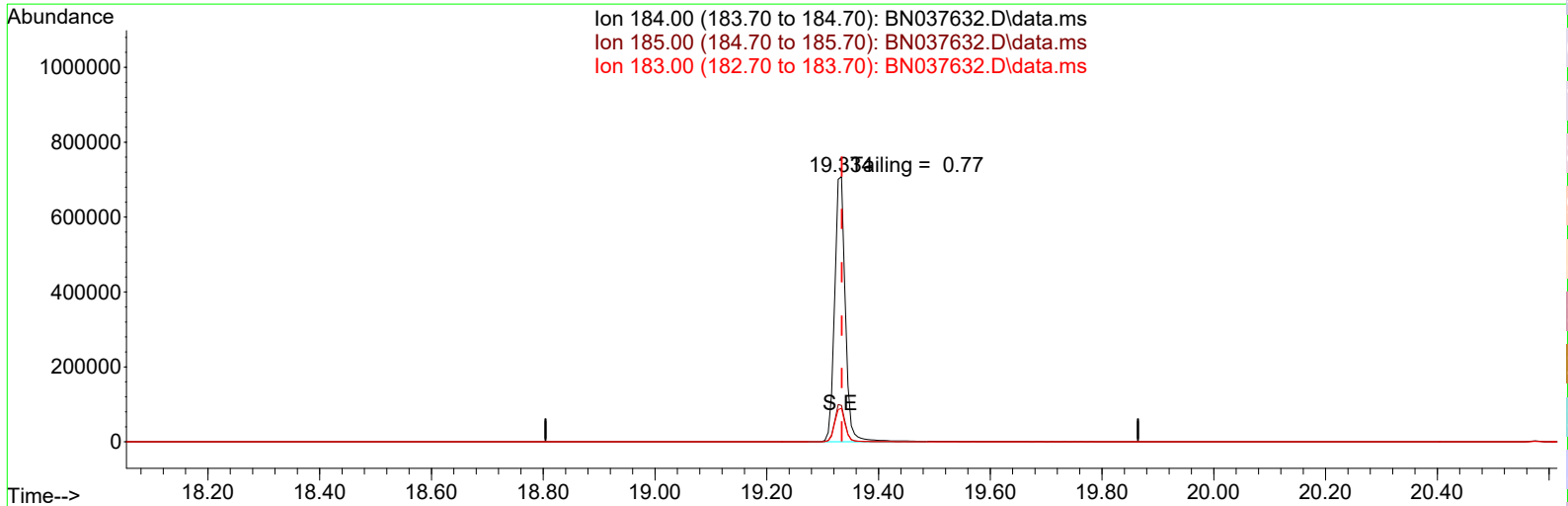
response 190297

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	61.37
264.00	61.60	58.51
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037632.D
Acq On : 20 Aug 2025 16:18
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Aug 21 05:59:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 06 01:49:15 2025
Response via : Initial Calibration



TIC: BN037632.D\data.ms

(77) Benzidine

19.334min (-0.001) 0.00 ng m

response 940808

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.76
183.00	13.20	12.63
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/20/2025	BNA_N	<u>BN037632.D</u>
Compound Name	Response	Retention Time
DDT	551703	20.575
DDD	7513	20.134
DDE	470	19.628
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
7983	559686	1.43

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	PB169328BL		SDG No.:	Q2886
Lab Sample ID:	PB169328BL		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
BN037634.D	1	08/20/25 09:05	08/20/25 17:33	PB169328

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	0.31		30 - 150		78%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2140	7.71				
1146-65-2	Naphthalene-d8	4910	10.488				
15067-26-2	Acenaphthene-d10	2090	14.345				
1517-22-2	Phenanthrene-d10	4210	17.087				
1719-03-5	Chrysene-d12	3650	21.268				
1520-96-3	Perylene-d12	3410	23.505				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037634.D
Acq On : 20 Aug 2025 17:33
Operator : RC/JU
Sample : PB169328BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169328BL

Quant Time: Aug 21 04:56:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2138	0.400	ng	0.00
7) Naphthalene-d8	10.488	136	4908	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	2089	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4205	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3648	0.400	ng	# 0.00
35) Perylene-d12	23.505	264	3405	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1635	0.337	ng	0.00
5) Phenol-d6	6.879	99	1766	0.303	ng	0.00
8) Nitrobenzene-d5	8.854	82	1254	0.363	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	2083	0.312	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	249	0.272	ng	0.00
15) 2-Fluorobiphenyl	12.973	172	4365	0.361	ng	0.00
27) Fluoranthene-d10	19.113	212	3736	0.338	ng	0.00
31) Terphenyl-d14	19.722	244	2734	0.364	ng	0.00

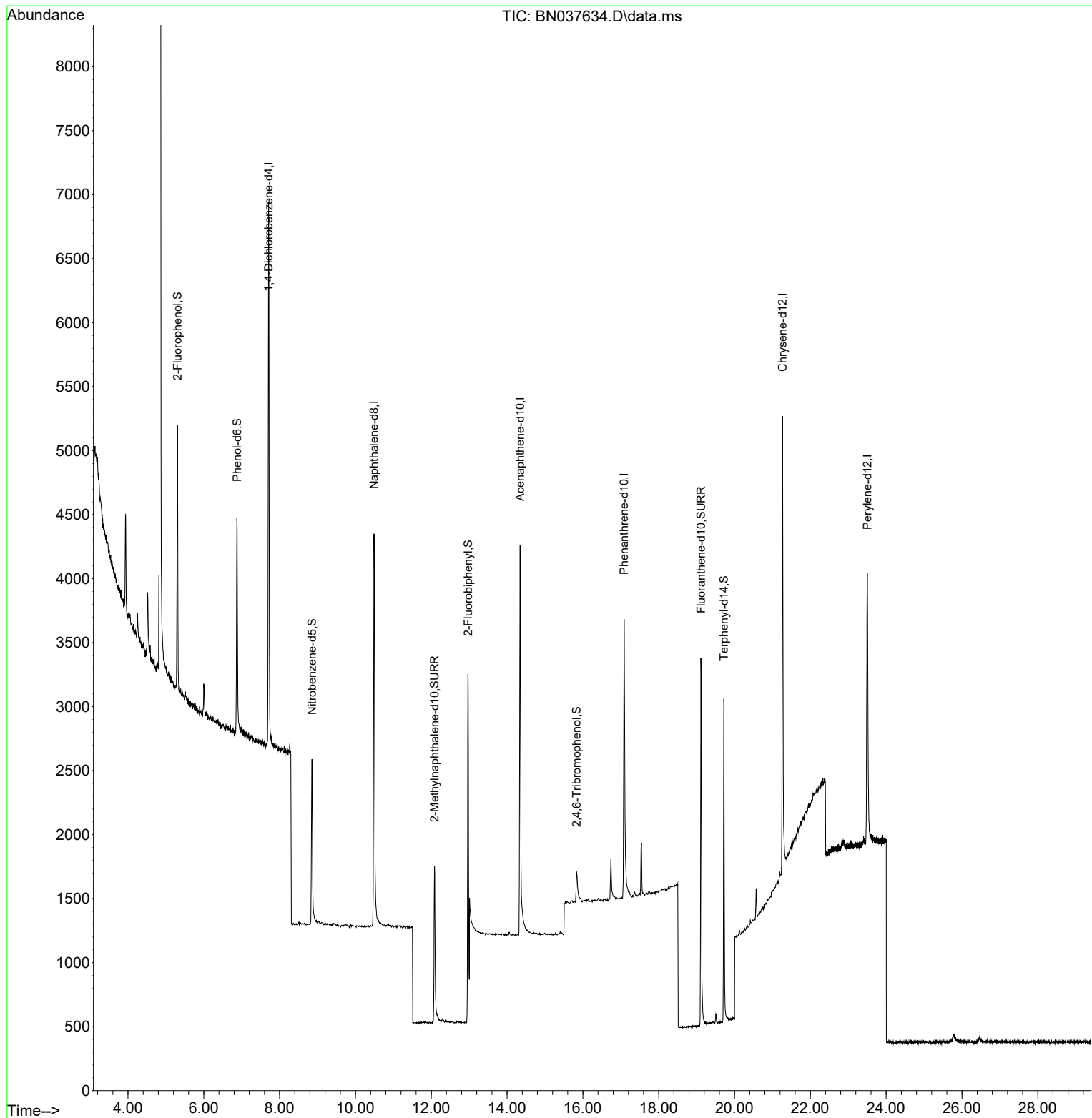
Target Compounds	Qvalue
------------------	--------

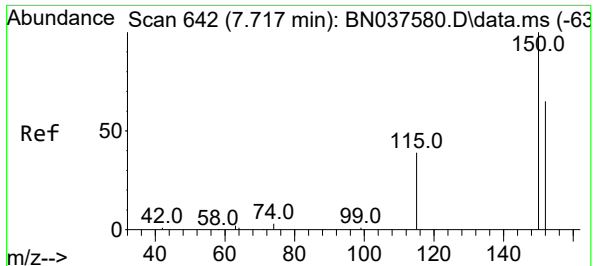
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037634.D
Acq On : 20 Aug 2025 17:33
Operator : RC/JU
Sample : PB169328BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169328BL

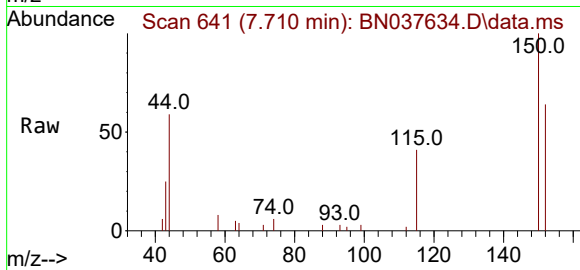
Quant Time: Aug 21 04:56:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



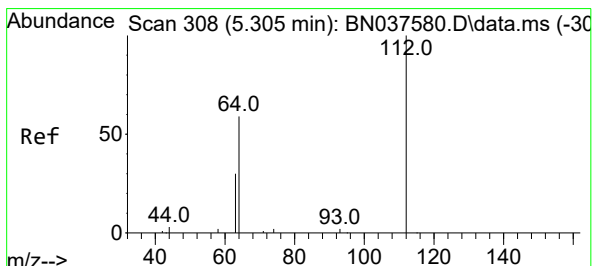
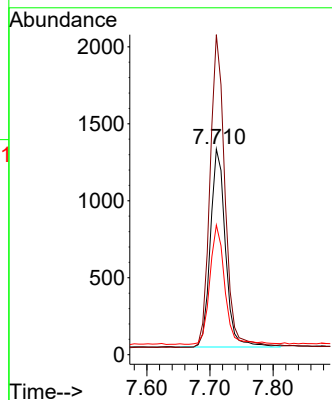
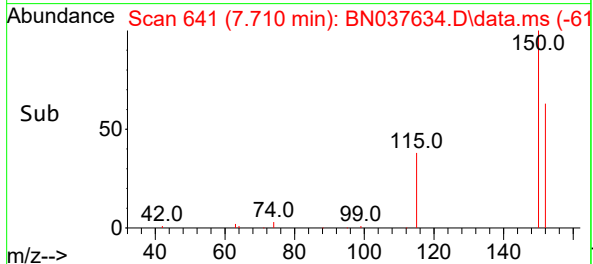


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 641
Delta R.T. -0.007 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

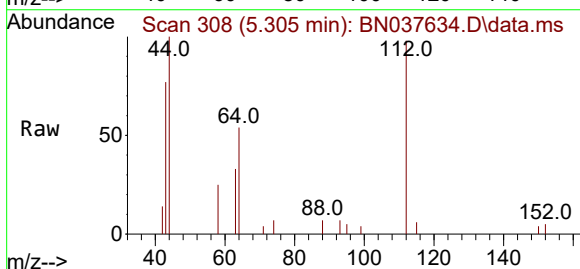
Instrument :
BNA_N
ClientSampleId :
PB169328BL



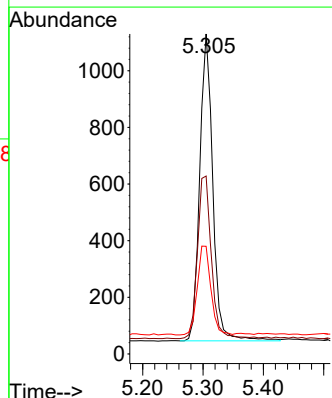
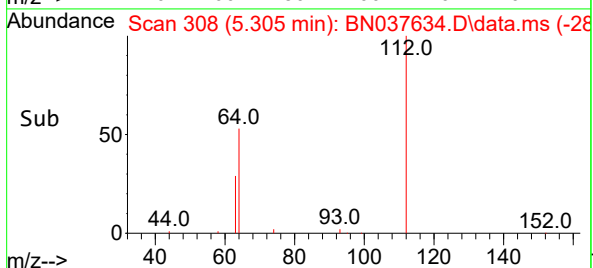
Tgt Ion:152 Resp: 2138
Ion Ratio Lower Upper
152 100
150 155.6 122.2 183.4
115 63.0 49.8 74.6

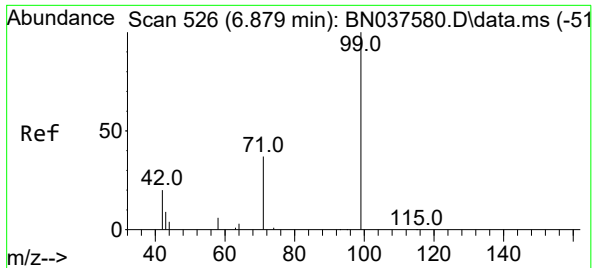


#4
2-Fluorophenol
Concen: 0.337 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33



Tgt Ion:112 Resp: 1635
Ion Ratio Lower Upper
112 100
64 56.3 44.9 67.3
63 30.0 23.4 35.2

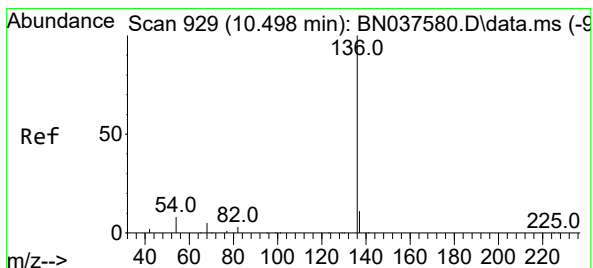
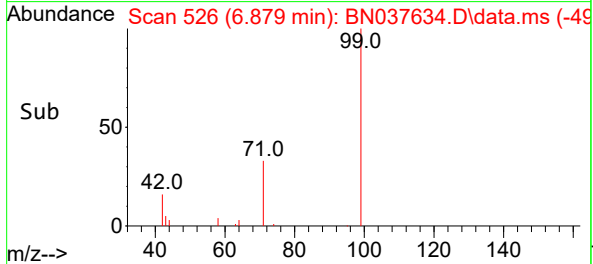
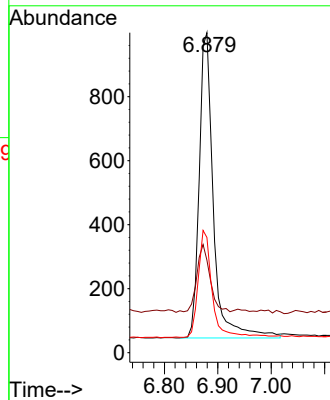
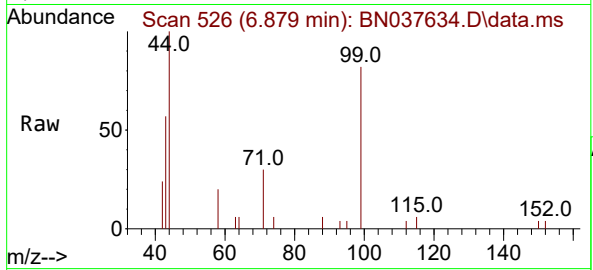




#5
Phenol-d6
Concen: 0.303 ng
RT: 6.879 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

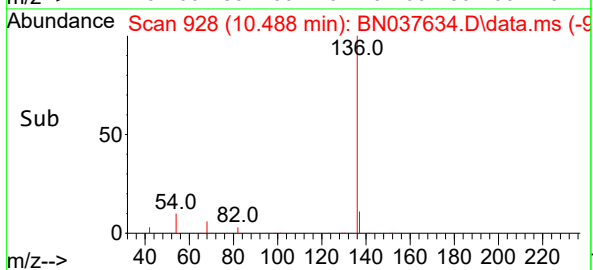
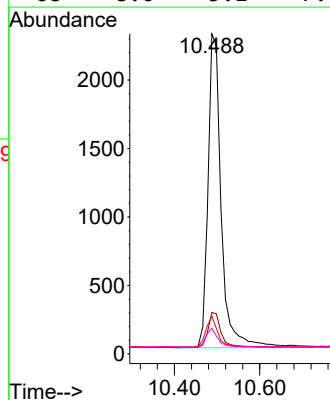
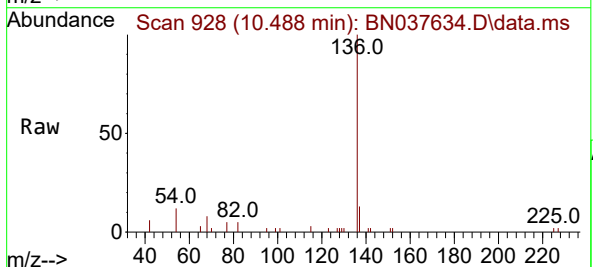
Instrument :
BNA_N
ClientSampleId :
PB169328BL

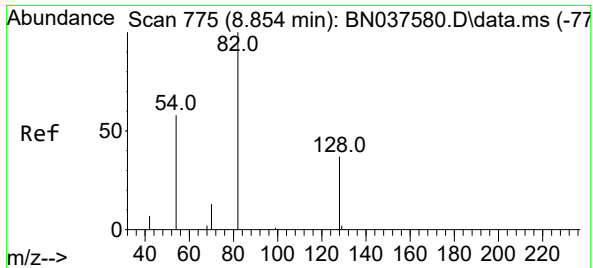
Tgt Ion:	99	Resp:	1766
Ion	Ratio	Lower	Upper
99	100		
42	20.3	18.5	27.7
71	34.4	28.6	42.8



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 928
Delta R.T. -0.010 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

Tgt Ion:	136	Resp:	4908
Ion	Ratio	Lower	Upper
136	100		
137	13.0	9.5	14.3
54	11.8	7.3	10.9#
68	8.0	5.1	7.7#

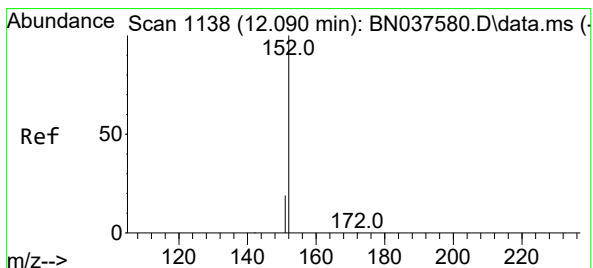
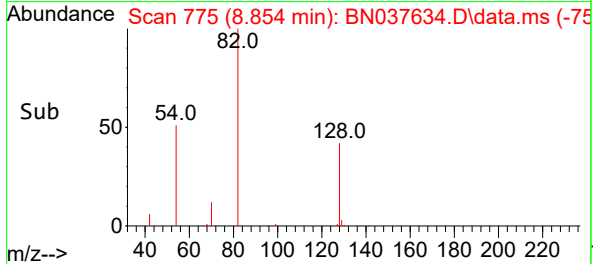
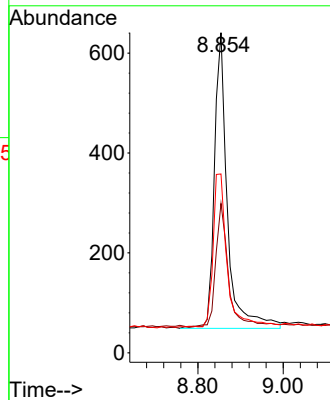
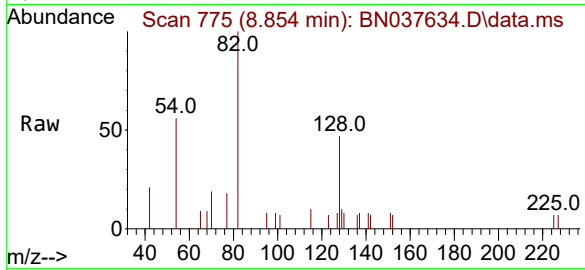




#8
Nitrobenzene-d5
Concen: 0.363 ng
RT: 8.854 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

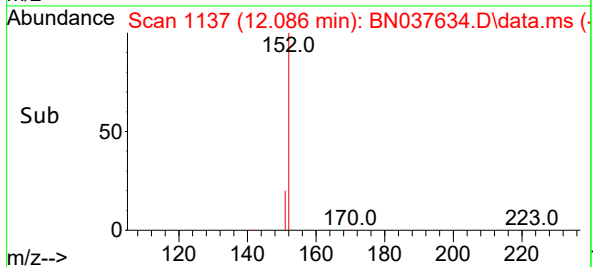
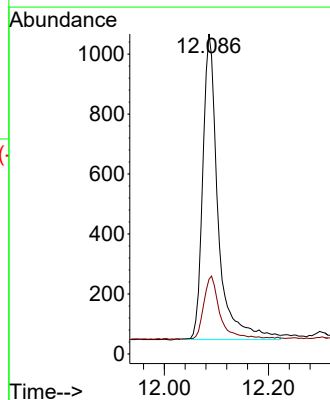
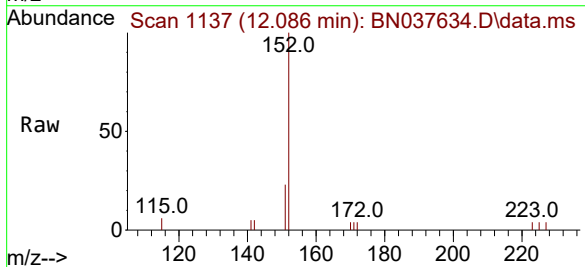
Instrument :
BNA_N
ClientSampleId :
PB169328BL

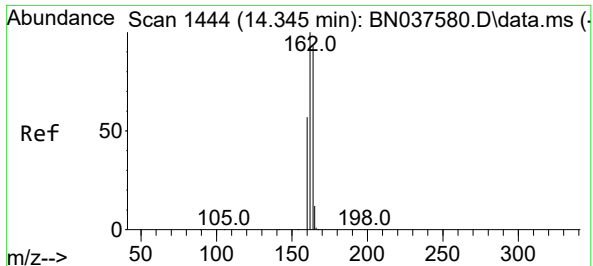
Tgt Ion	82	Resp:	1254
Ion	Ratio	Lower	Upper
82	100		
128	46.6	32.6	48.8
54	55.9	48.9	73.3



#11
2-Methylnaphthalene-d10
Concen: 0.312 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

Tgt Ion	152	Resp:	2083
Ion	Ratio	Lower	Upper
152	100		
151	22.1	17.3	25.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.345 min Scan# 1444

Delta R.T. 0.000 min

Lab File: BN037634.D

Acq: 20 Aug 2025 17:33

Instrument :

BNA_N

ClientSampleId :

PB169328BL

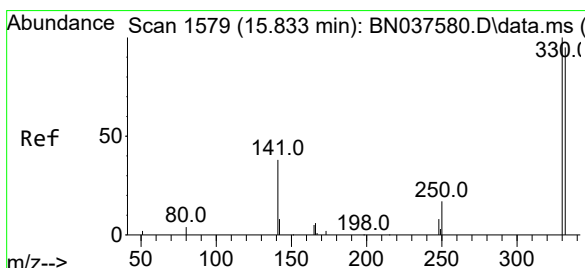
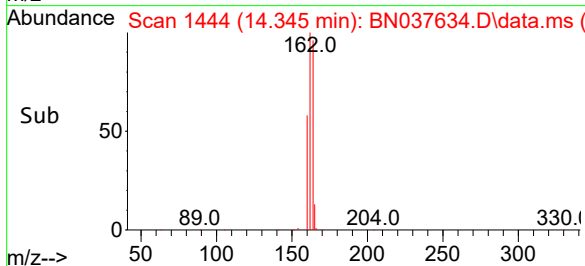
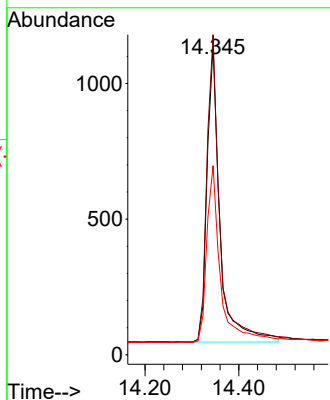
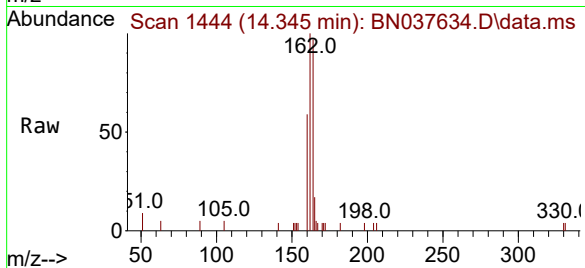
Tgt Ion:164 Resp: 2089

Ion Ratio Lower Upper

164 100

162 103.6 85.5 128.3

160 61.2 49.5 74.3



#14

2,4,6-Tribromophenol

Concen: 0.272 ng

RT: 15.833 min Scan# 1579

Delta R.T. 0.000 min

Lab File: BN037634.D

Acq: 20 Aug 2025 17:33

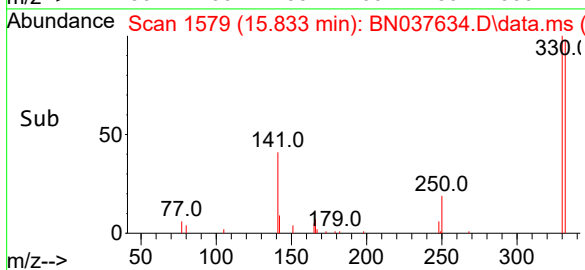
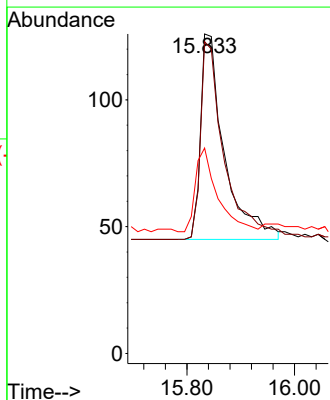
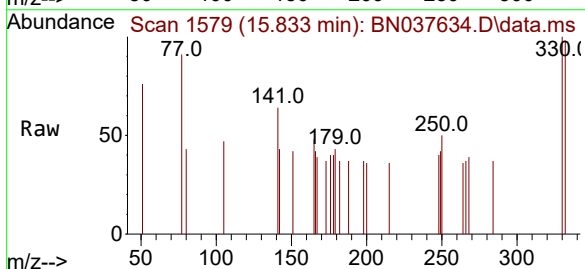
Tgt Ion:330 Resp: 249

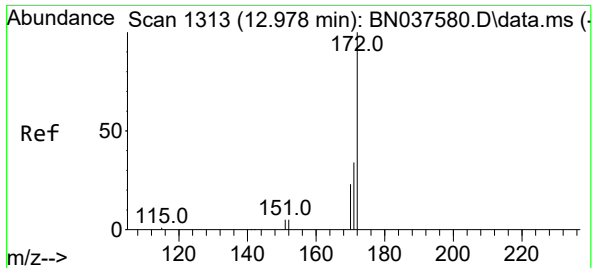
Ion Ratio Lower Upper

330 100

332 96.4 77.4 116.0

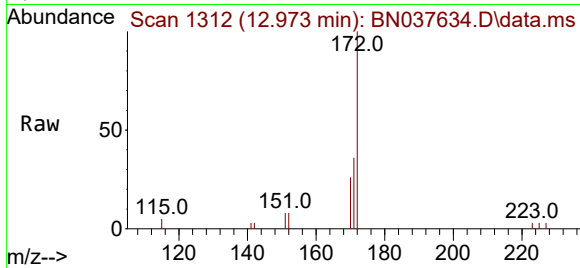
141 37.8 30.9 46.3



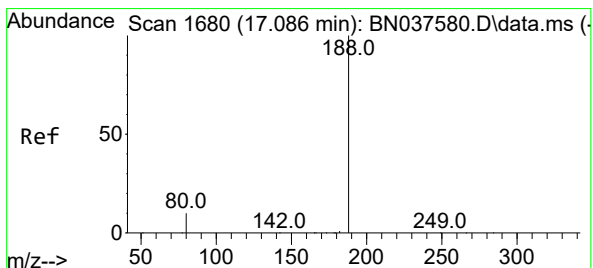
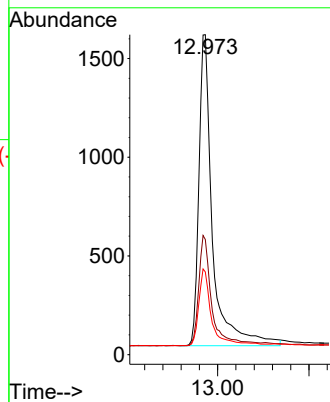
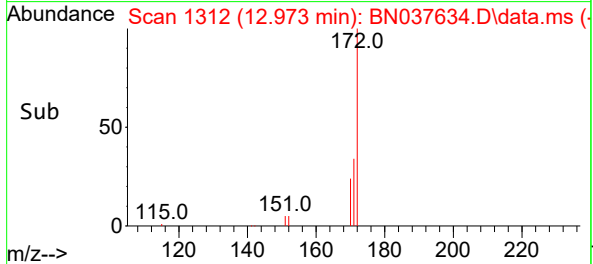


#15
2-Fluorobiphenyl
Concen: 0.361 ng
RT: 12.973 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

Instrument :
BNA_N
ClientSampleId :
PB169328BL

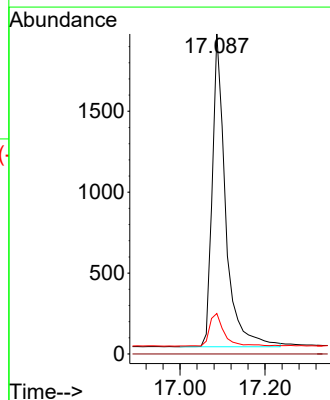
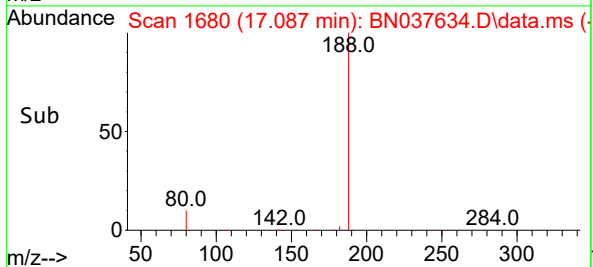
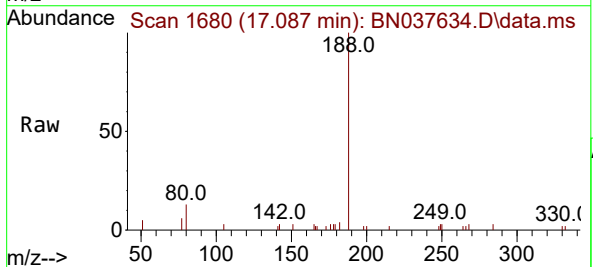


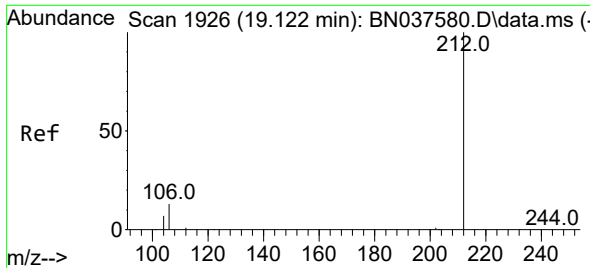
Tgt Ion:172 Resp: 4365
Ion Ratio Lower Upper
172 100
171 36.0 28.2 42.4
170 25.8 19.2 28.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.087 min Scan# 1680
Delta R.T. 0.000 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

Tgt Ion:188 Resp: 4205
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 12.7 9.1 13.7

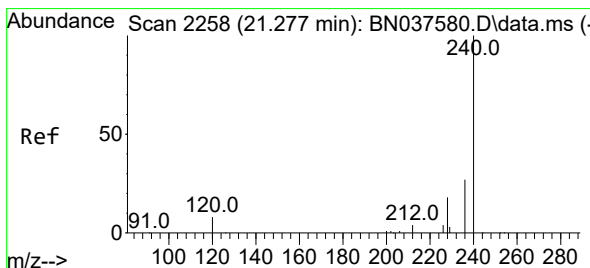
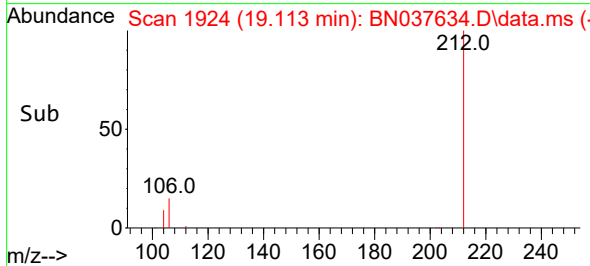
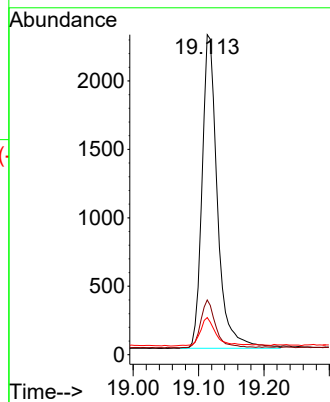
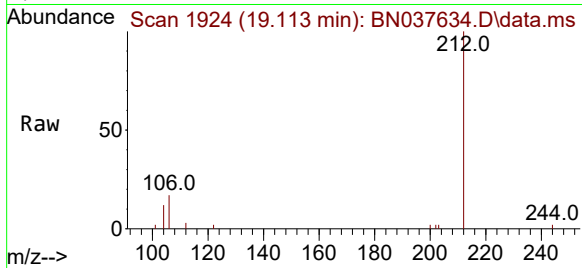




#27
Fluoranthene-d10
Concen: 0.338 ng
RT: 19.113 min Scan# 1924
Delta R.T. -0.009 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

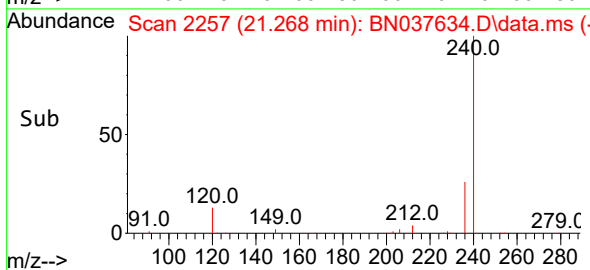
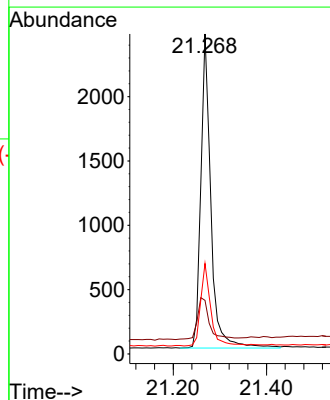
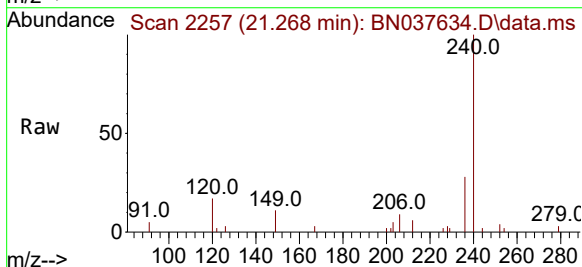
Instrument :
BNA_N
ClientSampleId :
PB169328BL

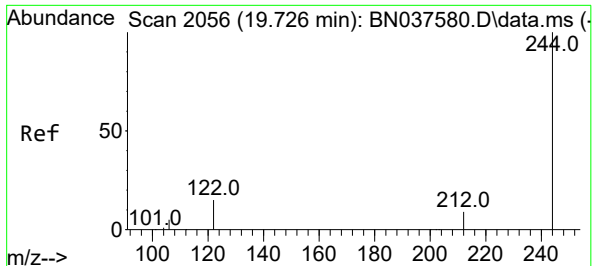
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.8	11.5	17.3
104	9.5	6.6	9.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.009 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

Tgt Ion	Ratio	Lower	Upper
240	100		
120	16.7	8.9	13.3
236	28.3	22.6	33.8

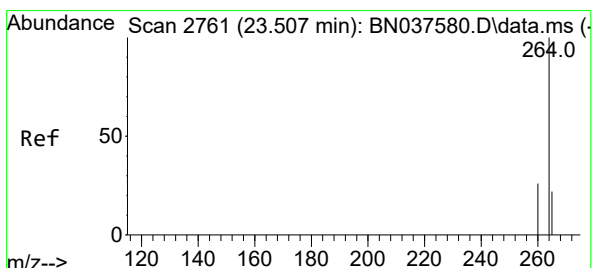
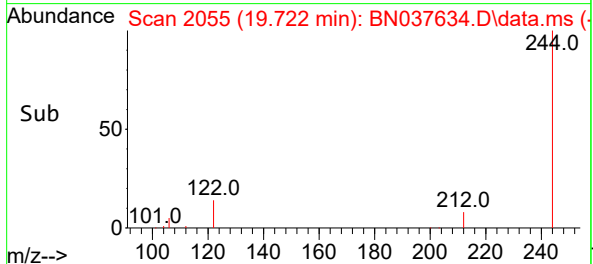
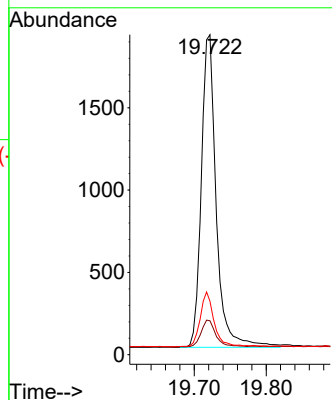
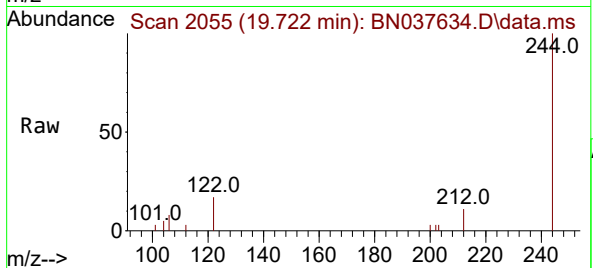




#31
Terphenyl-d14
Concen: 0.364 ng
RT: 19.722 min Scan# 2055
Delta R.T. -0.004 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

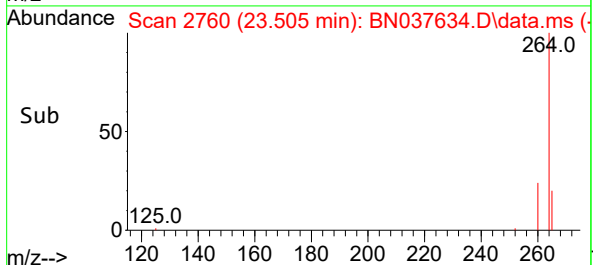
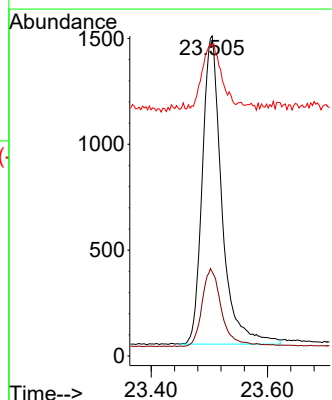
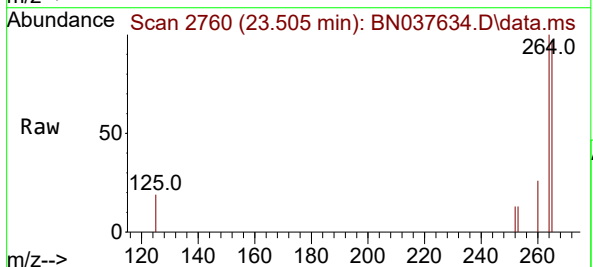
Instrument :
BNA_N
ClientSampleId :
PB169328BL

Tgt Ion:244 Resp: 2734
Ion Ratio Lower Upper
244 100
212 10.6 8.2 12.2
122 16.7 13.2 19.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.505 min Scan# 2760
Delta R.T. -0.003 min
Lab File: BN037634.D
Acq: 20 Aug 2025 17:33

Tgt Ion:264 Resp: 3405
Ion Ratio Lower Upper
264 100
260 26.3 21.6 32.4
265 96.8 48.2 72.4#



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169328BS	SDG No.:	Q2886
Lab Sample ID:	PB169328BS	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
BN037635.D	1	08/20/25 09:05	08/20/25 18:10	PB169328

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	0.34		30 - 150		86%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		95%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2190	7.71				
1146-65-2	Naphthalene-d8	5030	10.488				
15067-26-2	Acenaphthene-d10	2230	14.345				
1517-22-2	Phenanthrene-d10	4280	17.087				
1719-03-5	Chrysene-d12	3520	21.268				
1520-96-3	Perylene-d12	3230	23.499				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
 Data File : BN037635.D
 Acq On : 20 Aug 2025 18:10
 Operator : RC/JU
 Sample : PB169328BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169328BS

Quant Time: Aug 21 04:56:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

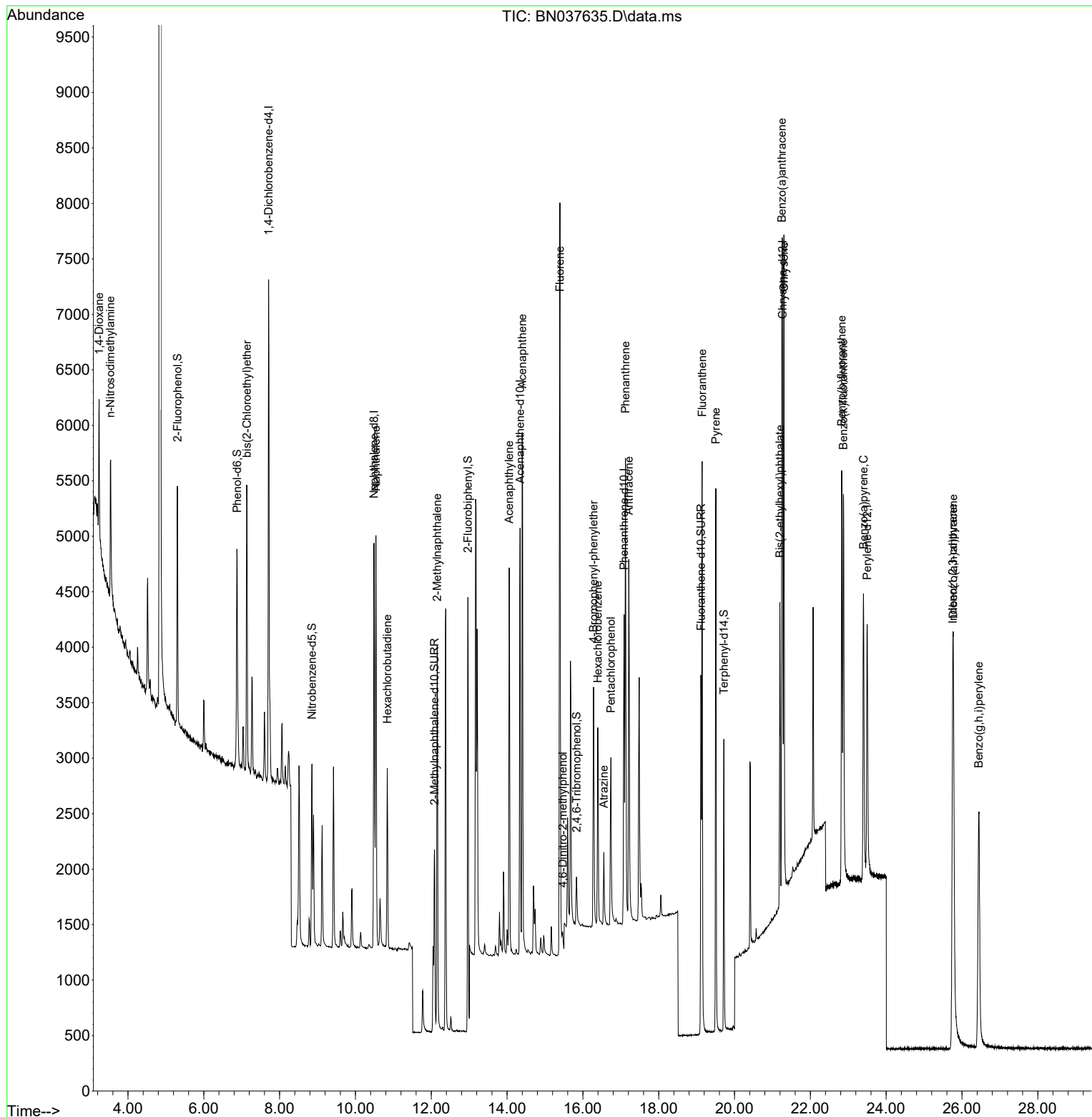
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2188	0.400	ng	0.00
7) Naphthalene-d8	10.488	136	5030	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	2230	0.400	ng	0.00
19) Phenanthrene-d10	17.087	188	4276	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3523	0.400	ng	# 0.00
35) Perylene-d12	23.499	264	3228	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1699	0.343	ng	0.00
5) Phenol-d6	6.880	99	1893	0.317	ng	0.00
8) Nitrobenzene-d5	8.854	82	1355	0.382	ng	0.00
11) 2-Methylnaphthalene-d10	12.086	152	2347	0.343	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	317	0.325	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	5028	0.390	ng	0.00
27) Fluoranthene-d10	19.113	212	3658	0.325	ng	0.00
31) Terphenyl-d14	19.717	244	2755	0.380	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.240	88	676	0.323	ng	# 83
3) n-Nitrosodimethylamine	3.536	42	982	0.367	ng	99
6) bis(2-Chloroethyl)ether	7.140	93	1955	0.363	ng	96
9) Naphthalene	10.541	128	4840	0.361	ng	100
10) Hexachlorobutadiene	10.840	225	1296	0.396	ng	# 100
12) 2-Methylnaphthalene	12.157	142	2619	0.312	ng	98
16) Acenaphthylene	14.056	152	4080	0.408	ng	99
17) Acenaphthene	14.398	154	2407	0.354	ng	96
18) Fluorene	15.393	166	3189	0.358	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	161	0.388	ng	# 83
21) 4-Bromophenyl-phenylether	16.280	248	945	0.352	ng	# 86
22) Hexachlorobenzene	16.391	284	1511	0.397	ng	99
23) Atrazine	16.553	200	611	0.402	ng	95
24) Pentachlorophenol	16.739	266	893	0.667	ng	97
25) Phenanthrene	17.124	178	4667	0.359	ng	100
26) Anthracene	17.211	178	4096	0.356	ng	100
28) Fluoranthene	19.146	202	4866	0.326	ng	99
30) Pyrene	19.508	202	4706	0.357	ng	100
32) Benzo(a)anthracene	21.250	228	4388	0.373	ng	99
33) Chrysene	21.304	228	5035	0.384	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	1752	0.361	ng	99
36) Indeno(1,2,3-cd)pyrene	25.756	276	5331	0.392	ng	99
37) Benzo(b)fluoranthene	22.829	252	4900	0.401	ng	94
38) Benzo(k)fluoranthene	22.873	252	5036	0.365	ng	96
39) Benzo(a)pyrene	23.402	252	4168	0.411	ng	94
40) Dibenzo(a,h)anthracene	25.774	278	4110	0.389	ng	96
41) Benzo(g,h,i)perylene	26.443	276	4708	0.423	ng	100

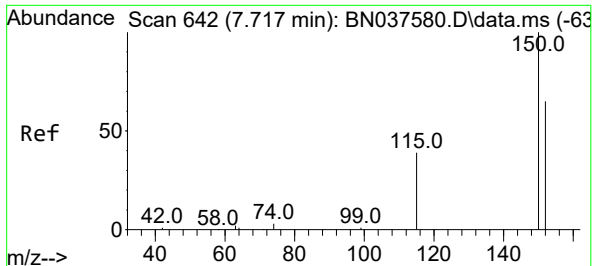
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037635.D
Acq On : 20 Aug 2025 18:10
Operator : RC/JU
Sample : PB169328BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169328BS

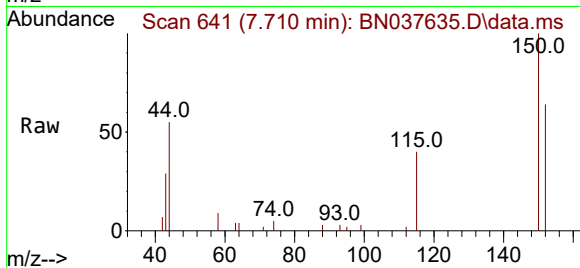
Quant Time: Aug 21 04:56:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration



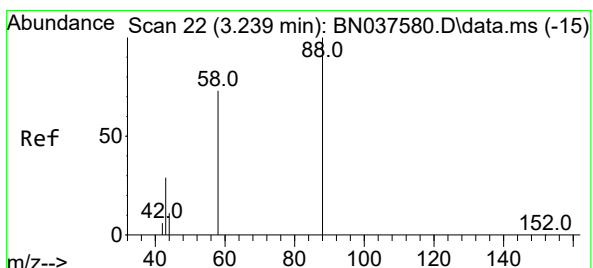
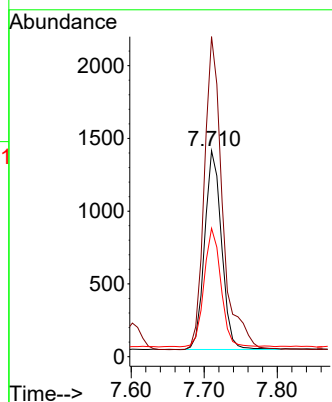
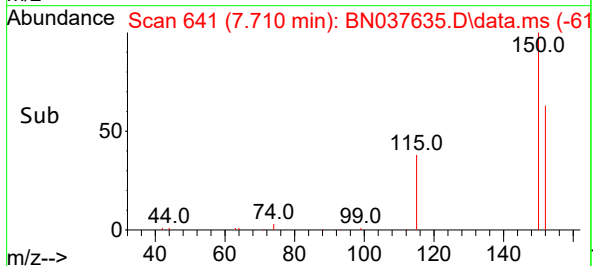


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

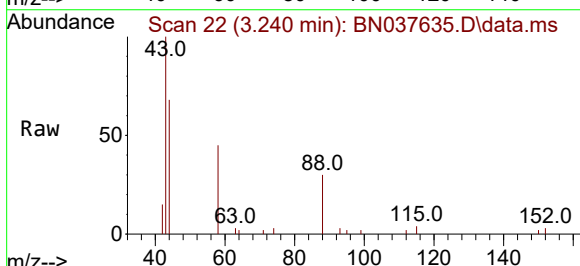
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BNA_N
ClientSampleId :
PB169328BS



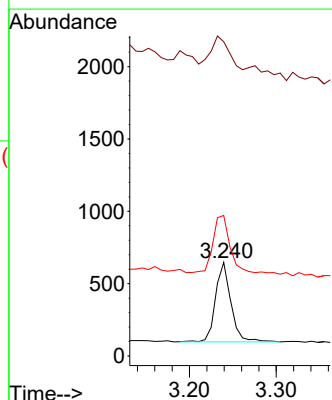
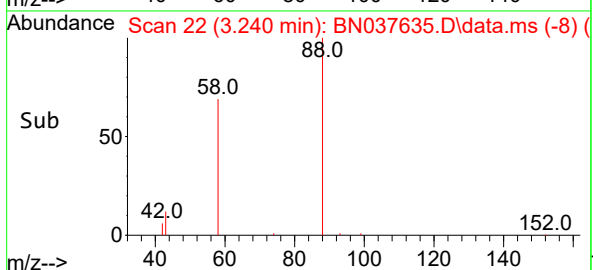
Tgt Ion:152 Resp: 2188
Ion Ratio Lower Upper
152 100
150 155.4 122.2 183.4
115 62.3 49.8 74.6

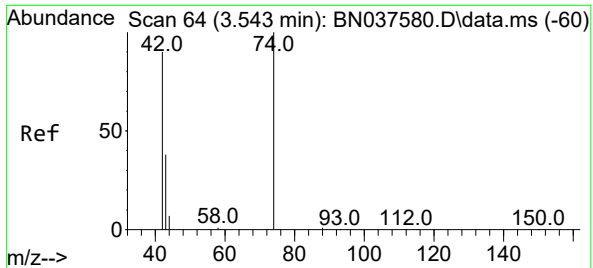


#2
1,4-Dioxane
Concen: 0.323 ng
RT: 3.240 min Scan# 22
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10



Tgt Ion: 88 Resp: 676
Ion Ratio Lower Upper
88 100
43 49.0 25.8 38.6#
58 86.1 61.2 91.8

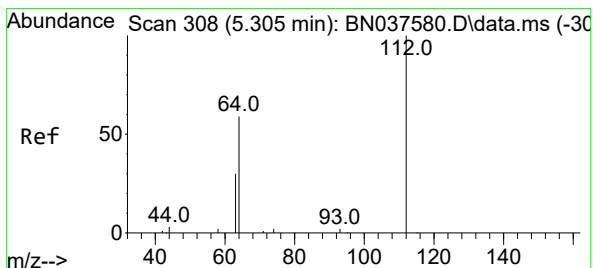
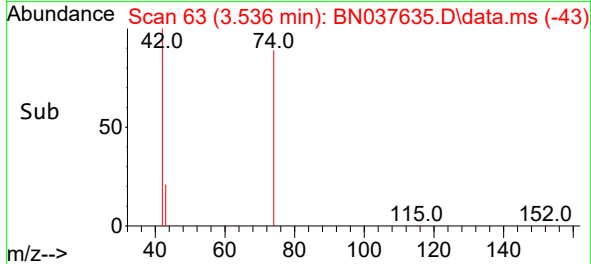
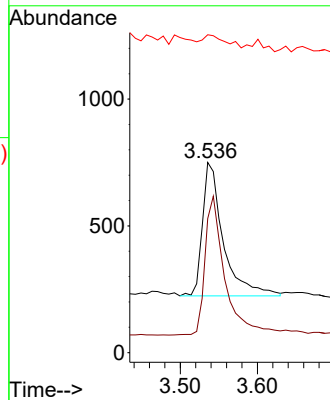
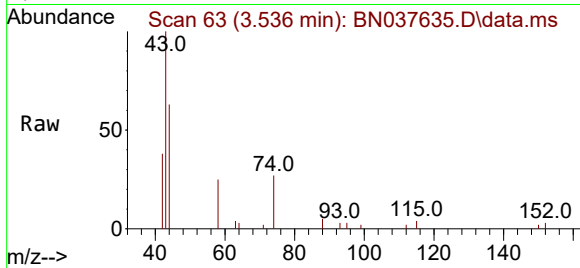




#3
n-Nitrosodimethylamine
Concen: 0.367 ng
RT: 3.536 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

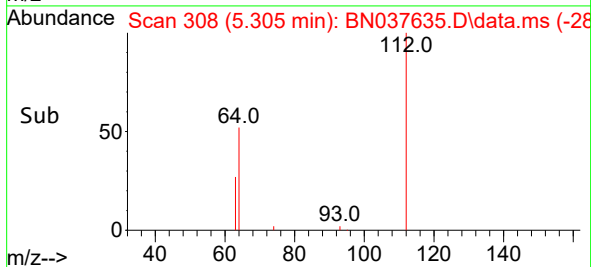
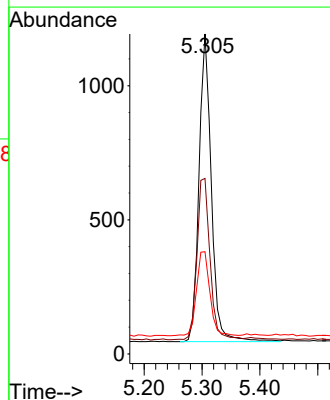
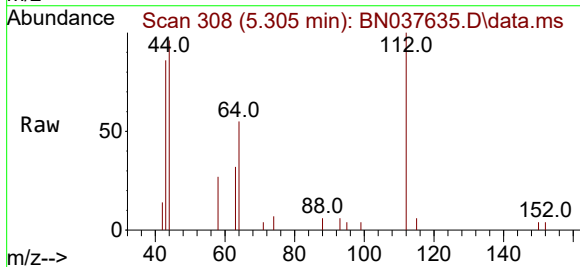
Instrument :
BNA_N
ClientSampleId :
PB169328BS

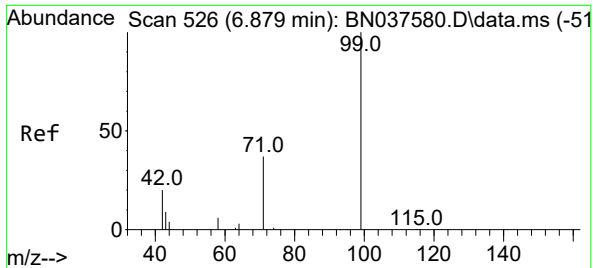
Tgt Ion: 42 Resp: 982
Ion Ratio Lower Upper
42 100
74 103.0 82.0 123.0
44 10.9 7.9 11.9



#4
2-Fluorophenol
Concen: 0.343 ng
RT: 5.305 min Scan# 308
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion: 112 Resp: 1699
Ion Ratio Lower Upper
112 100
64 55.5 44.9 67.3
63 29.5 23.4 35.2

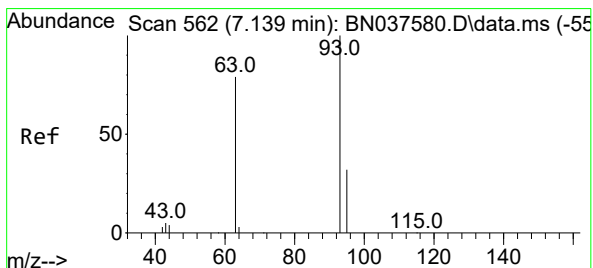
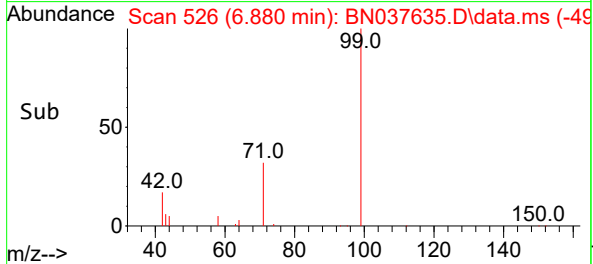
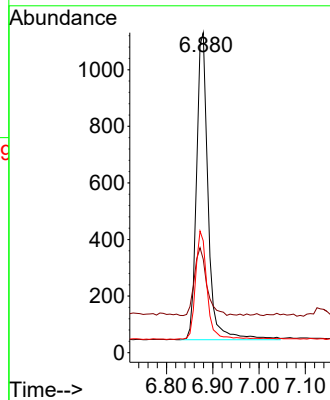
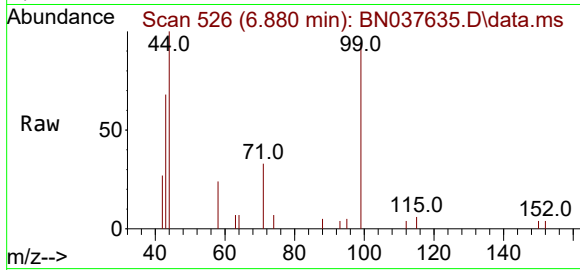




#5
Phenol-d6
Concen: 0.317 ng
RT: 6.880 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

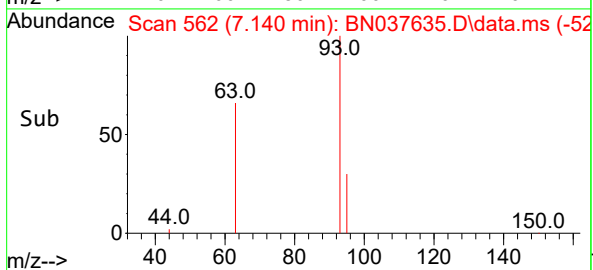
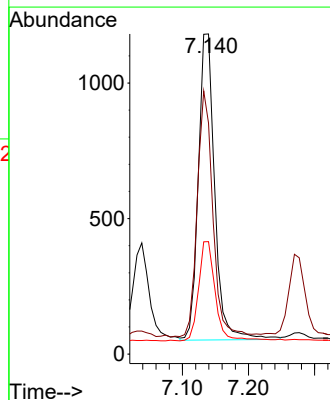
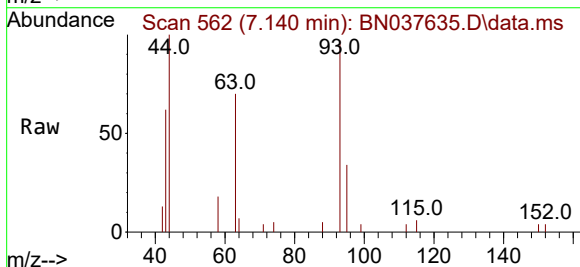
Instrument :
BNA_N
ClientSampleId :
PB169328BS

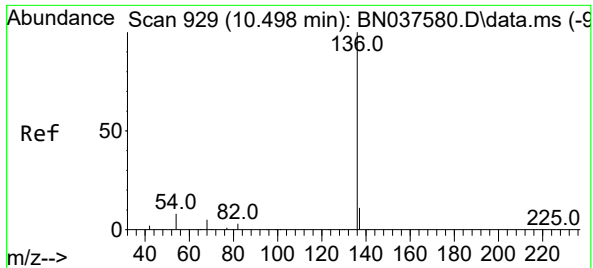
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.7	18.5	27.7
71	35.4	28.6	42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.363 ng
RT: 7.140 min Scan# 562
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion	Ratio	Lower	Upper
93	100		
63	76.5	58.0	87.0
95	32.8	24.9	37.3

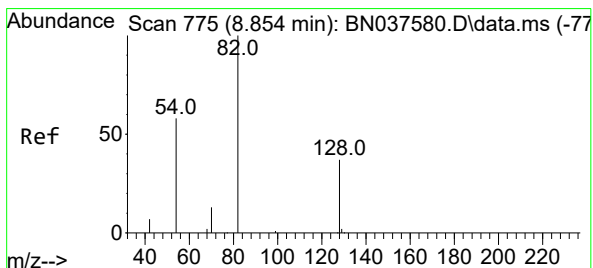
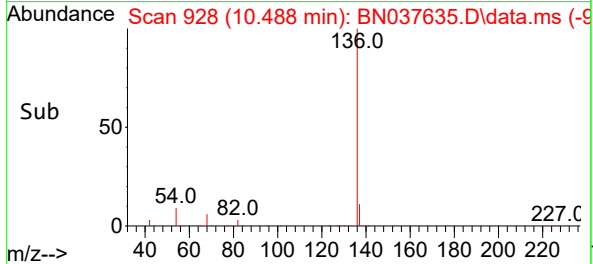
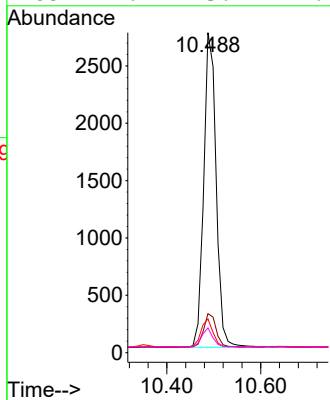
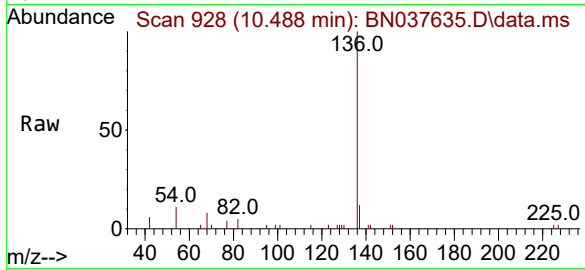




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.488 min Scan# 911
Delta R.T. -0.010 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

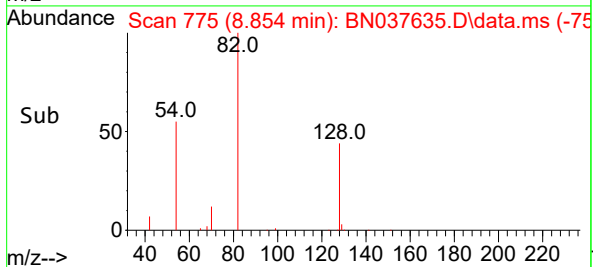
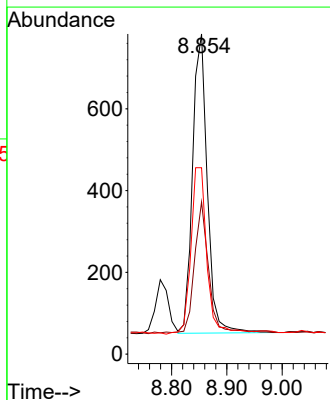
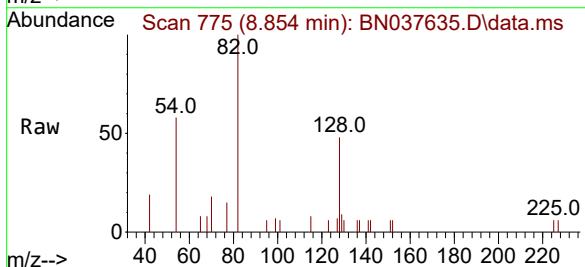
Instrument :
BNA_N
ClientSampleId :
PB169328BS

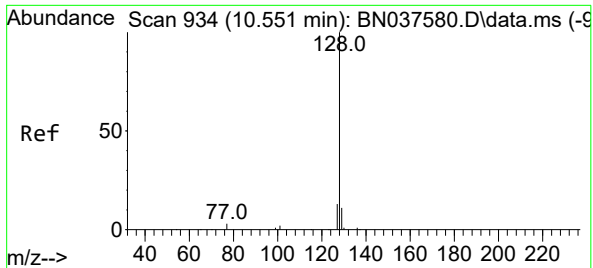
Tgt Ion:	136	Resp:	5030
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	10.5	7.3	10.9
68	7.7	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.382 ng
RT: 8.854 min Scan# 775
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:	82	Resp:	1355
Ion	Ratio	Lower	Upper
82	100		
128	47.5	32.6	48.8
54	58.2	48.9	73.3

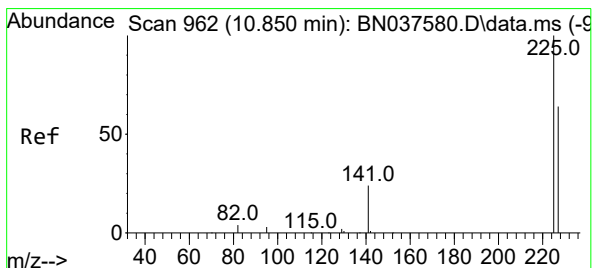
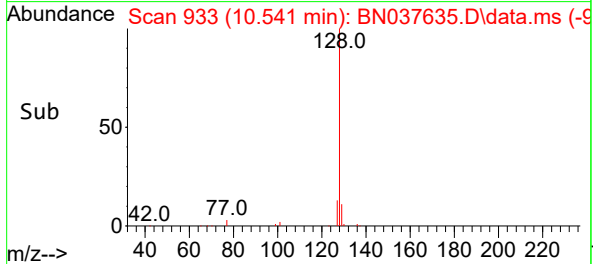
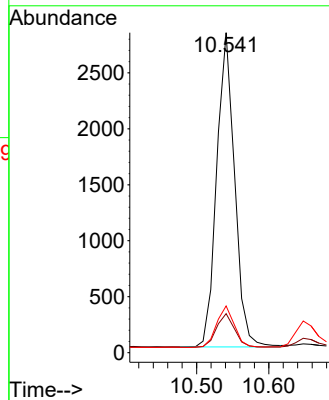
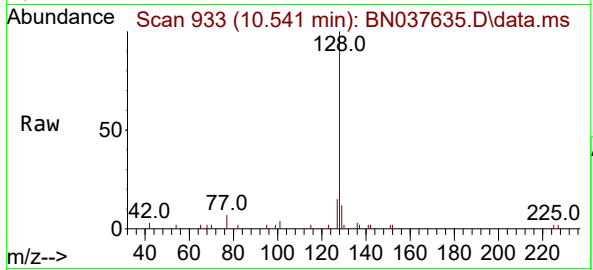




#9
Naphthalene
Concen: 0.361 ng
RT: 10.541 min Scan# 91
Delta R.T. -0.010 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

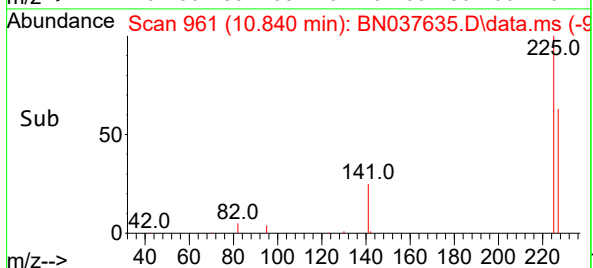
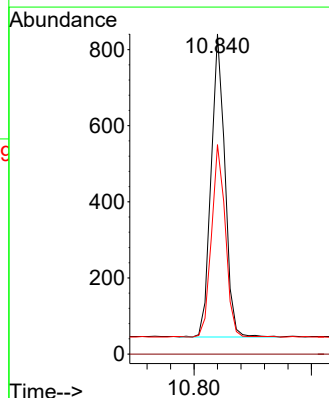
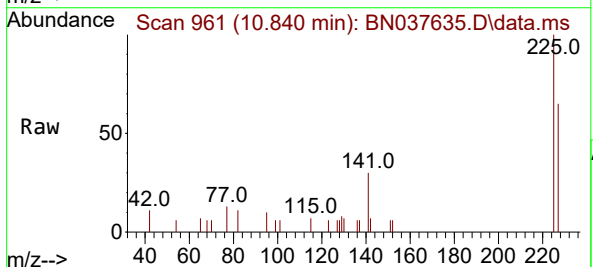
Instrument :
BNA_N
ClientSampleId :
PB169328BS

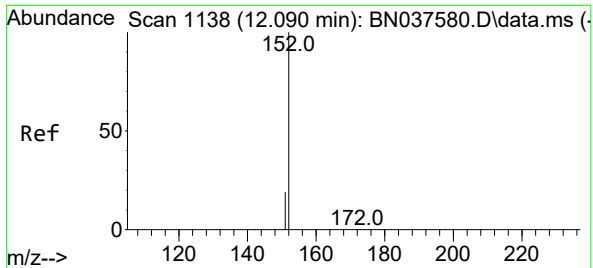
Tgt Ion:	128	Resp:	4840
Ion	Ratio	Lower	Upper
128	100		
129	12.2	9.8	14.6
127	14.6	11.5	17.3



#10
Hexachlorobutadiene
Concen: 0.396 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.010 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:	225	Resp:	1296
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.8	76.2

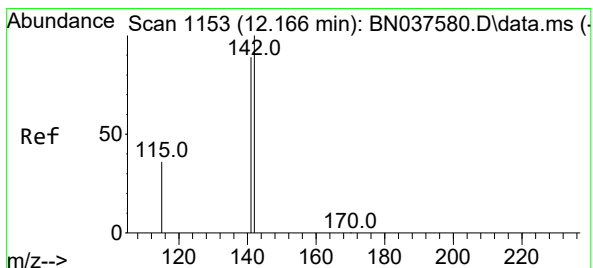
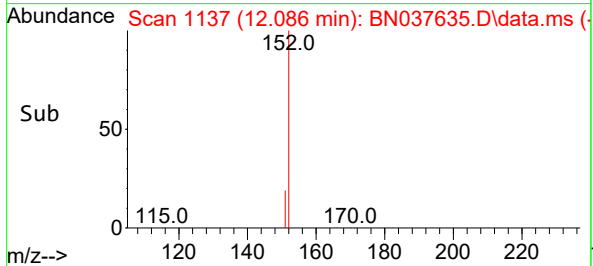
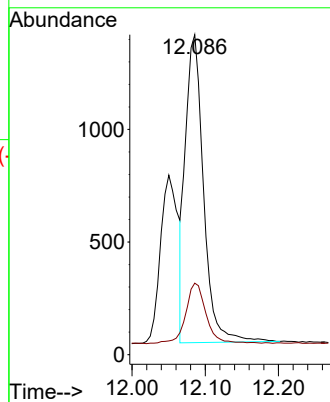
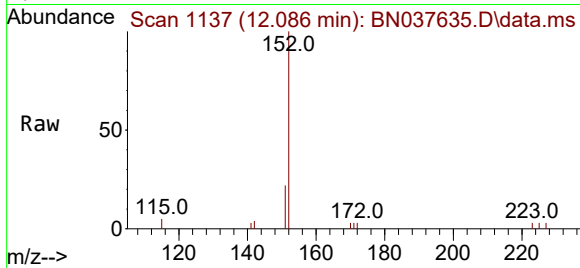




#11
2-Methylnaphthalene-d10
Concen: 0.343 ng
RT: 12.086 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

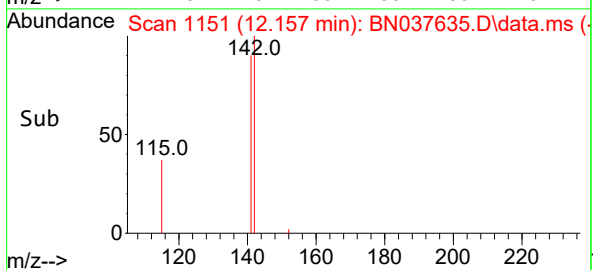
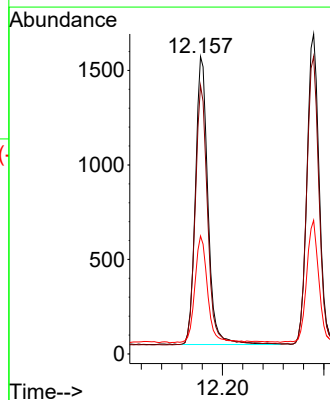
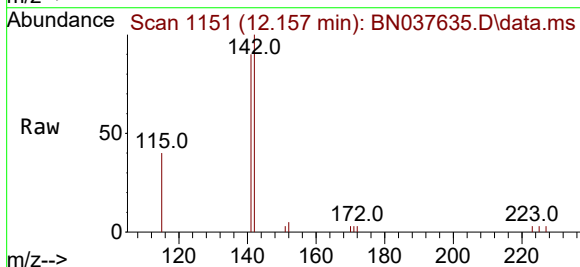
Instrument :
BNA_N
ClientSampleId :
PB169328BS

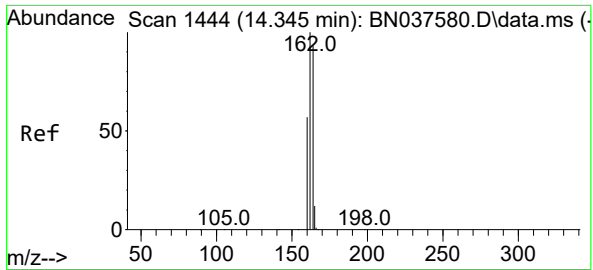
Tgt Ion:152 Resp: 2347
Ion Ratio Lower Upper
152 100
151 22.2 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.312 ng
RT: 12.157 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:142 Resp: 2619
Ion Ratio Lower Upper
142 100
141 90.2 71.4 107.0
115 39.6 30.2 45.4

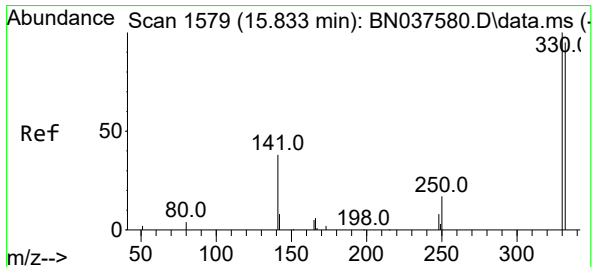
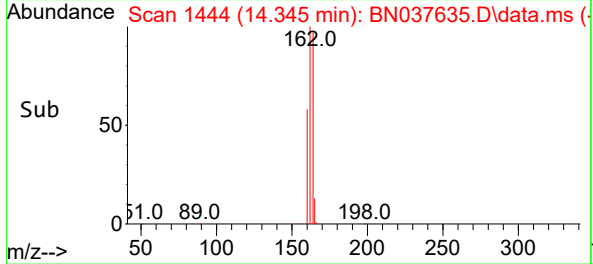
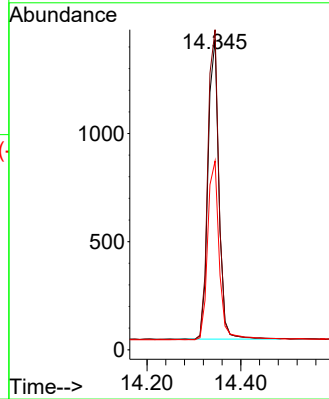
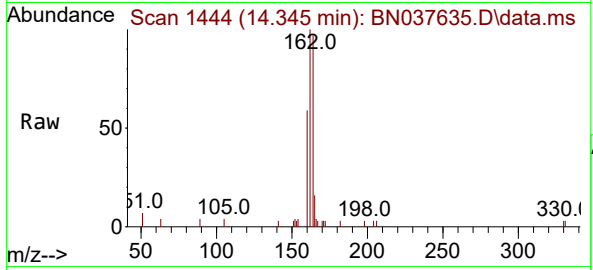




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

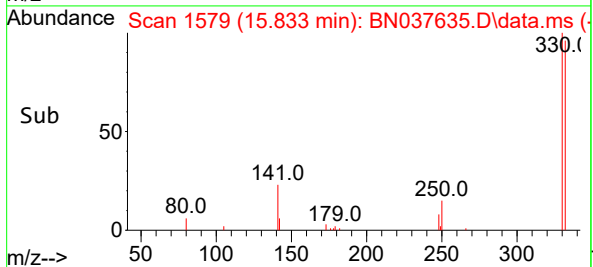
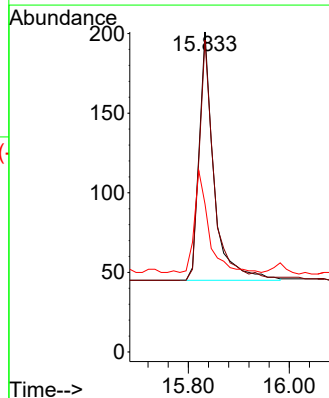
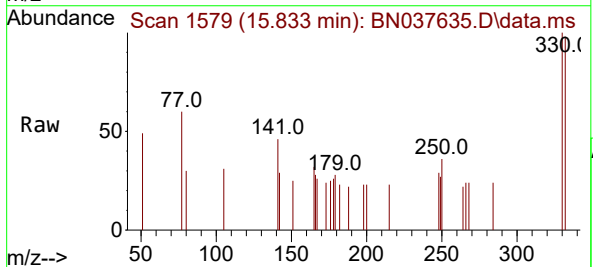
Instrument :
BNA_N
ClientSampleId :
PB169328BS

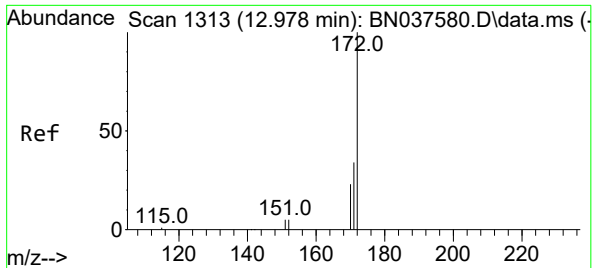
Tgt Ion:164 Resp: 2230
Ion Ratio Lower Upper
164 100
162 103.1 85.5 128.3
160 60.8 49.5 74.3



#14
2,4,6-Tribromophenol
Concen: 0.325 ng
RT: 15.833 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:330 Resp: 317
Ion Ratio Lower Upper
330 100
332 97.8 77.4 116.0
141 39.4 30.9 46.3

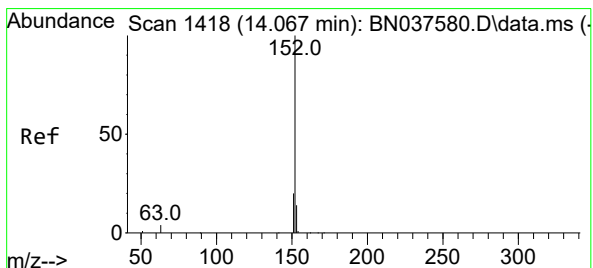
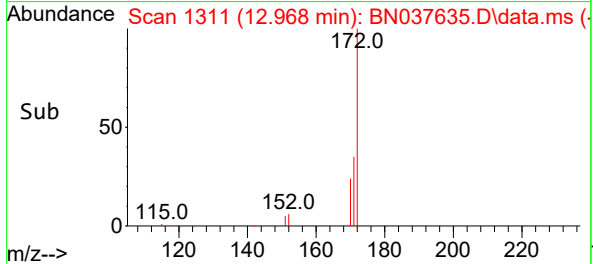
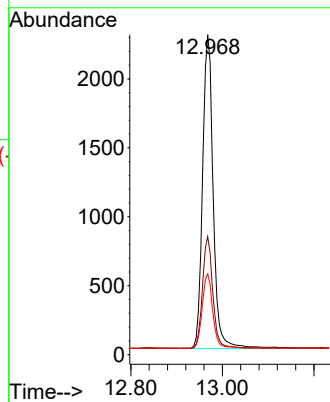
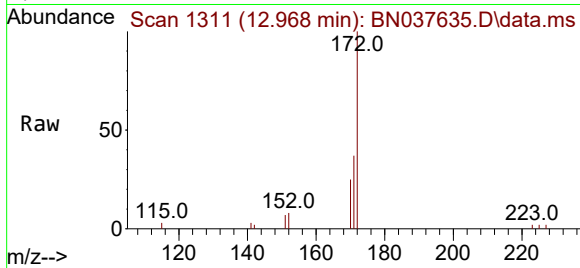




#15
2-Fluorobiphenyl
Concen: 0.390 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

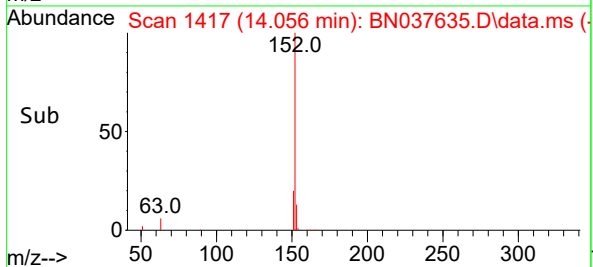
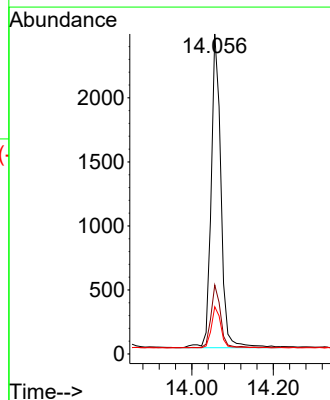
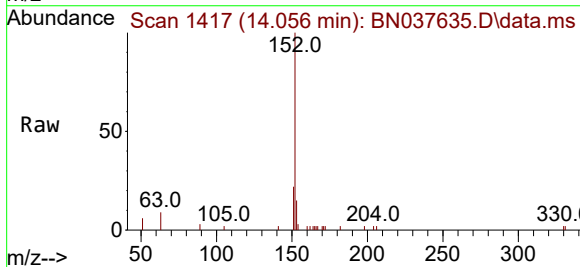
Instrument :
BNA_N
ClientSampleId :
PB169328BS

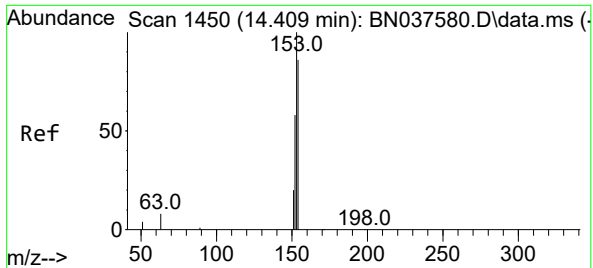
Tgt Ion:	172	Resp:	5028
Ion	Ratio	Lower	Upper
172	100		
171	36.9	28.2	42.4
170	25.2	19.2	28.8



#16
Acenaphthylene
Concen: 0.408 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.010 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:	152	Resp:	4080
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.1	24.1
153	12.8	10.7	16.1

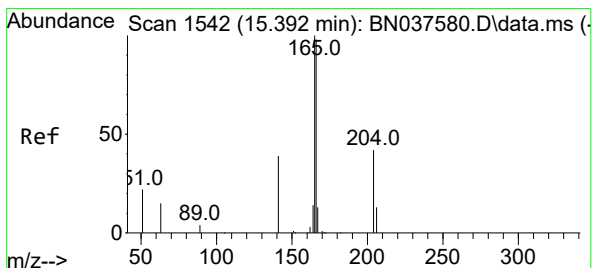
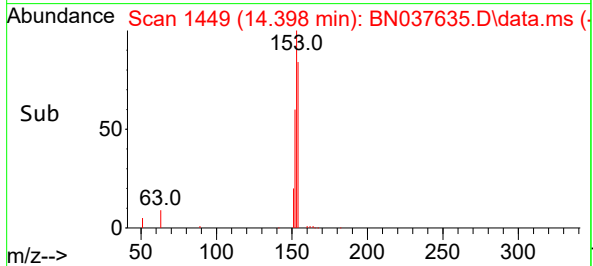
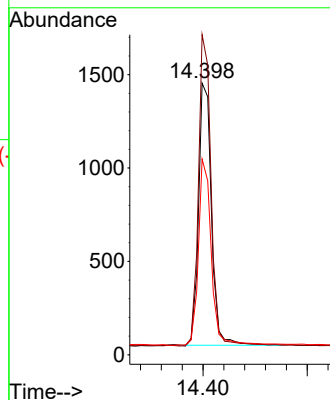
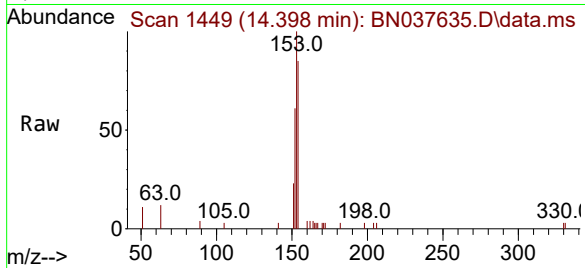




#17
Acenaphthene
Concen: 0.354 ng
RT: 14.398 min Scan# 1449
Delta R.T. -0.010 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

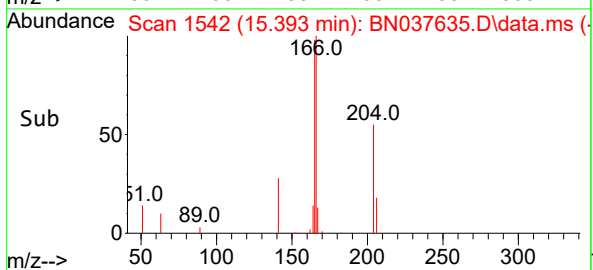
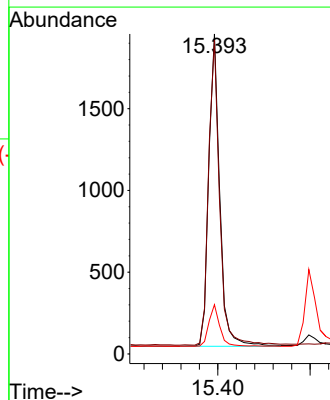
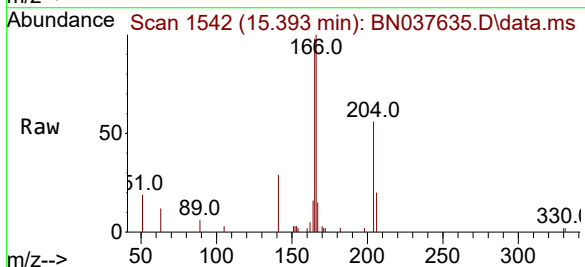
Instrument :
BNA_N
ClientSampleId :
PB169328BS

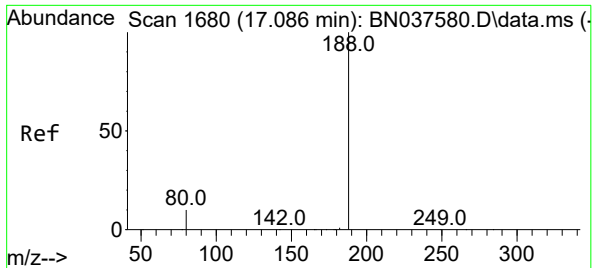
Tgt Ion:154 Resp: 2407
Ion Ratio Lower Upper
154 100
153 117.1 90.6 135.8
152 71.5 54.9 82.3



#18
Fluorene
Concen: 0.358 ng
RT: 15.393 min Scan# 1542
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:166 Resp: 3189
Ion Ratio Lower Upper
166 100
165 97.7 78.9 118.3
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

Instrument :

BNA_N

ClientSampleId :

PB169328BS

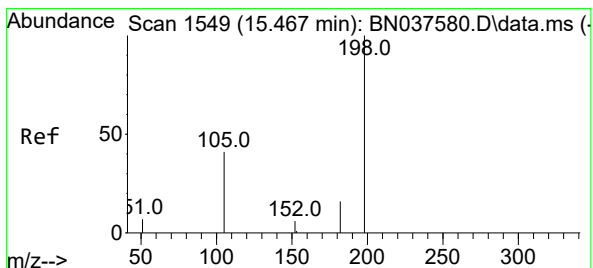
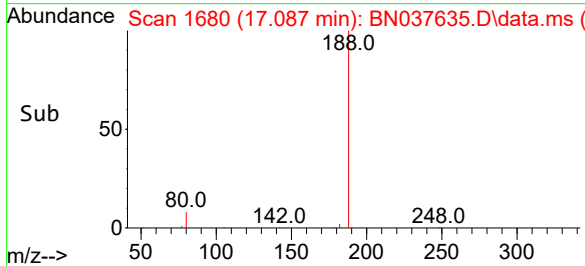
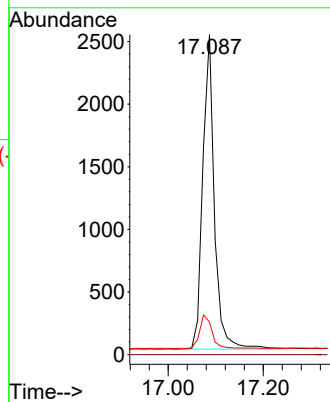
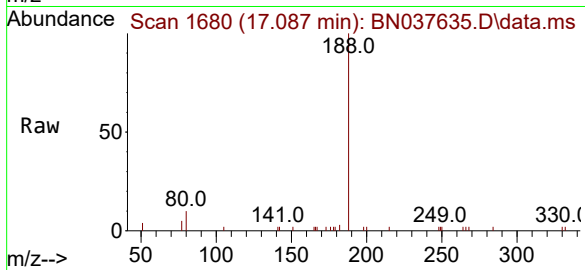
Tgt Ion:188 Resp: 4276

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.388 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

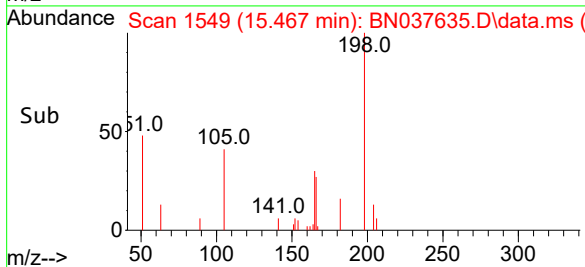
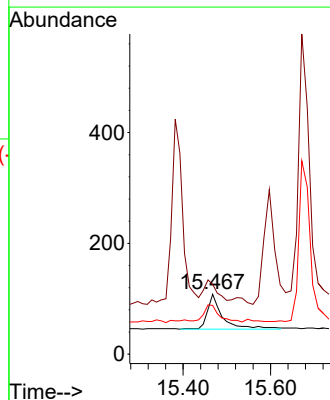
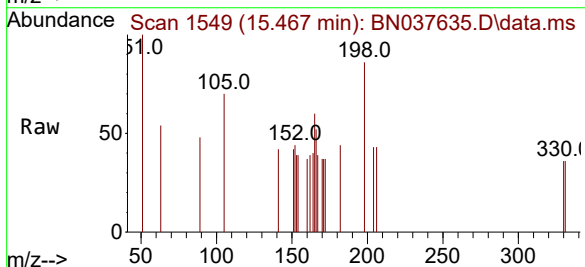
Tgt Ion:198 Resp: 161

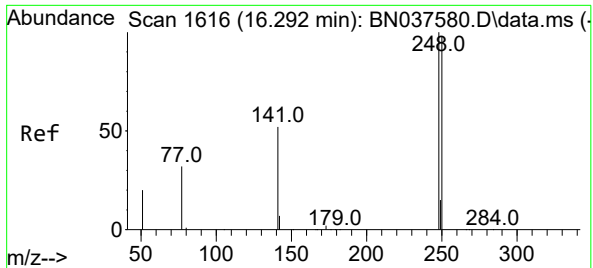
Ion Ratio Lower Upper

198 100

51 116.7 81.0 121.6

105 81.5 52.5 78.7#

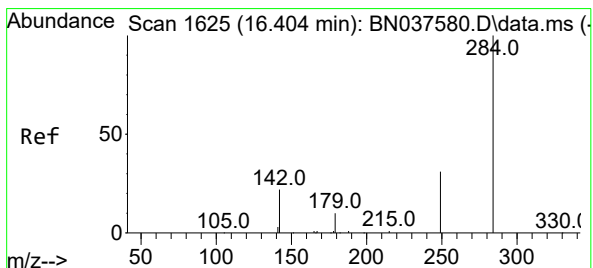
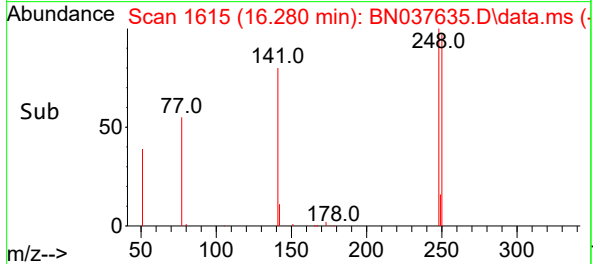
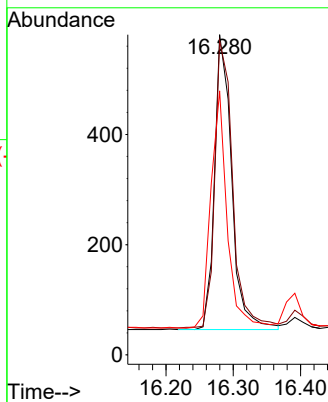
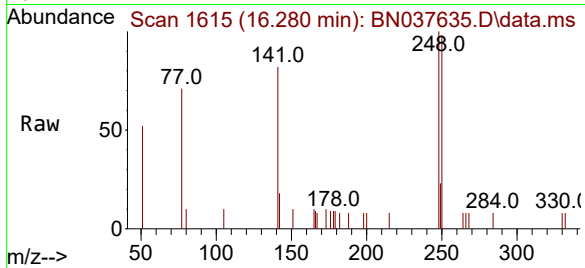




#21
4-Bromophenyl-phenylether
Concen: 0.352 ng
RT: 16.280 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

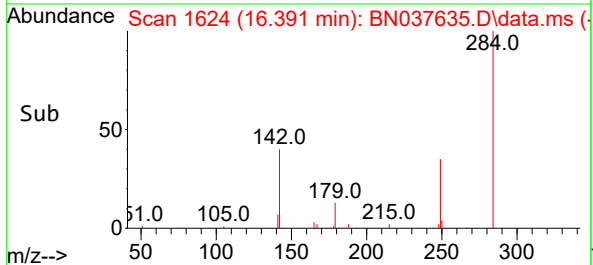
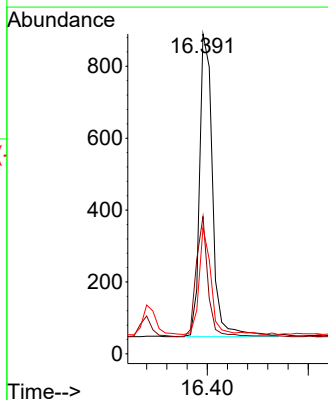
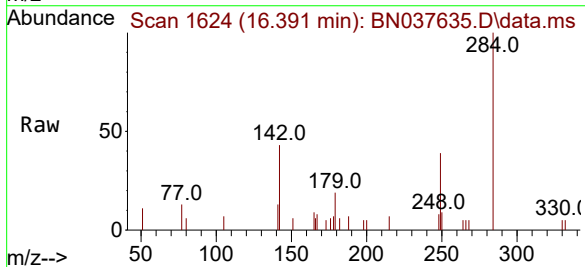
Instrument :
BNA_N
ClientSampleId :
PB169328BS

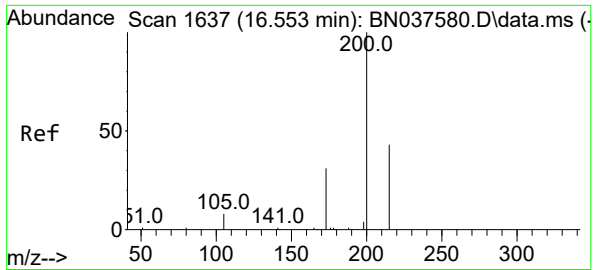
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.1	78.6	118.0
141	82.4	43.7	65.5



#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.391 min Scan# 1624
Delta R.T. -0.013 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion	Ratio	Lower	Upper
284	100		
142	36.1	29.8	44.6
249	32.7	26.0	39.0





#23

Atrazine

Concen: 0.402 ng

RT: 16.553 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

Instrument :

BNA_N

ClientSampleId :

PB169328BS

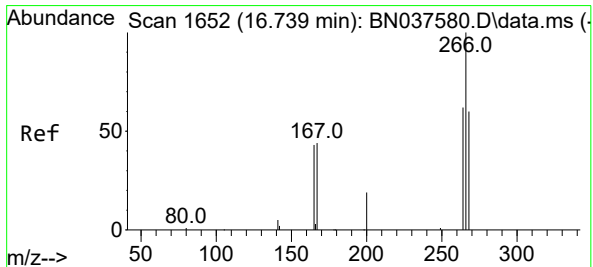
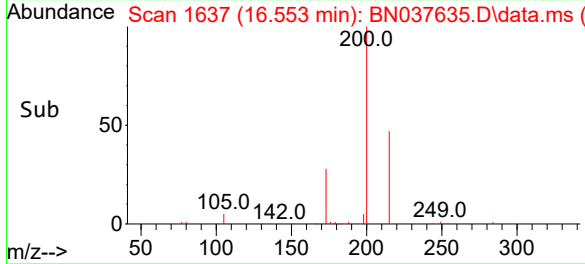
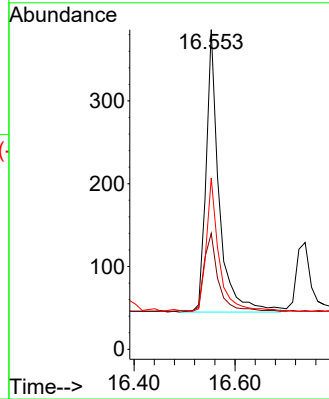
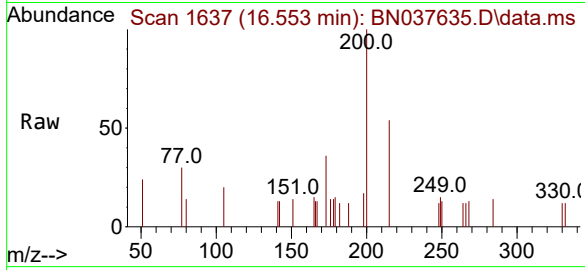
Tgt Ion:200 Resp: 611

Ion Ratio Lower Upper

200 100

173 36.3 31.0 46.4

215 53.6 39.4 59.0



#24

Pentachlorophenol

Concen: 0.667 ng

RT: 16.739 min Scan# 1652

Delta R.T. 0.000 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

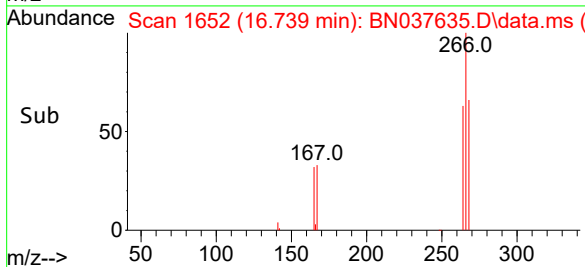
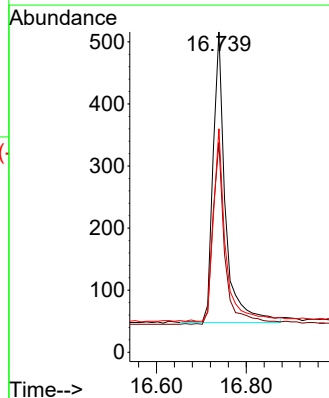
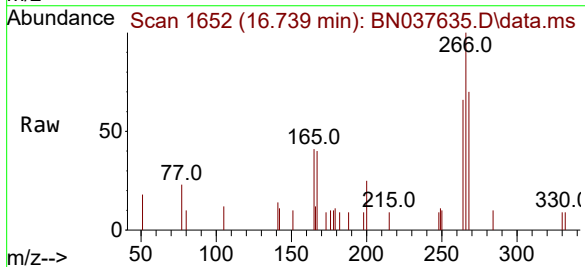
Tgt Ion:266 Resp: 893

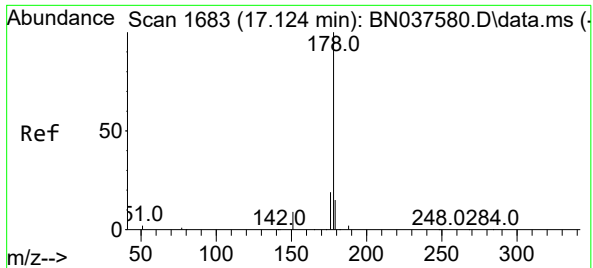
Ion Ratio Lower Upper

266 100

264 61.6 49.6 74.4

268 65.1 49.2 73.8

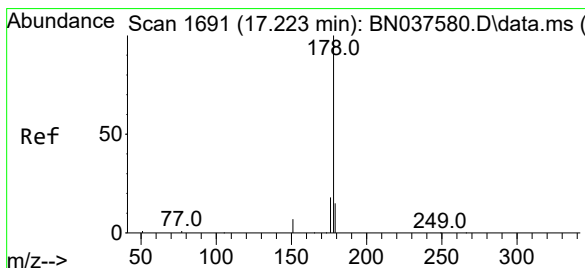
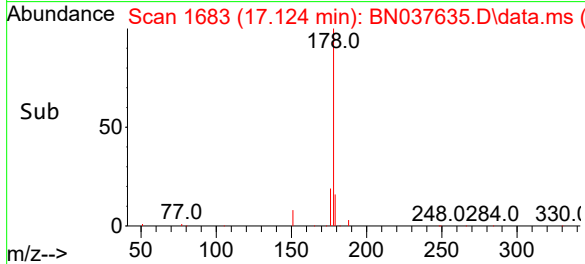
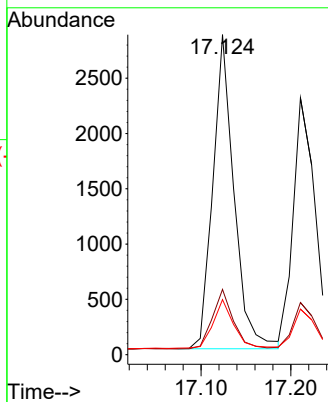
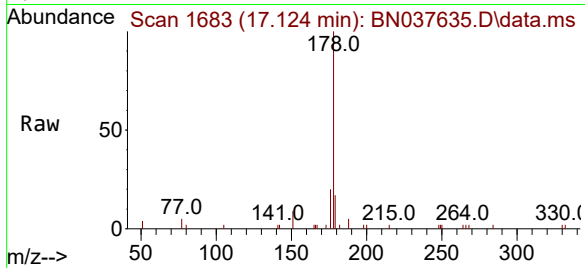




#25
Phenanthrene
Concen: 0.359 ng
RT: 17.124 min Scan# 1683
Delta R.T. 0.000 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

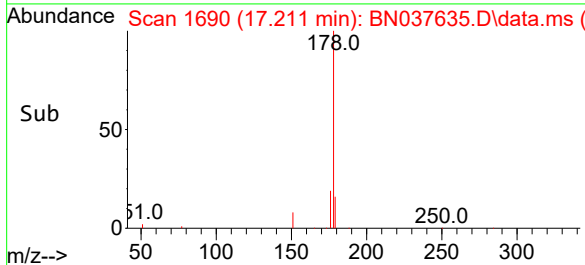
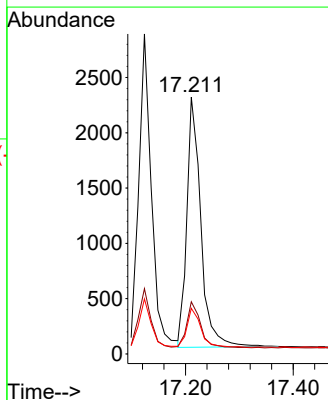
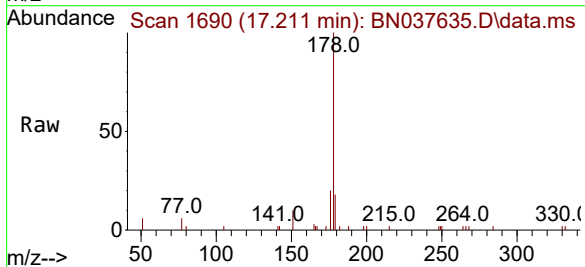
Instrument :
BNA_N
ClientSampleId :
PB169328BS

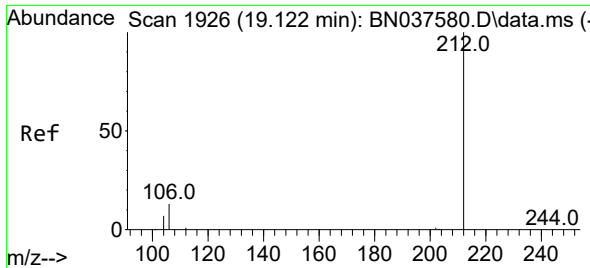
Tgt Ion:178 Resp: 4667
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.5 12.3 18.5



#26
Anthracene
Concen: 0.356 ng
RT: 17.211 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:178 Resp: 4096
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.3 12.3 18.5

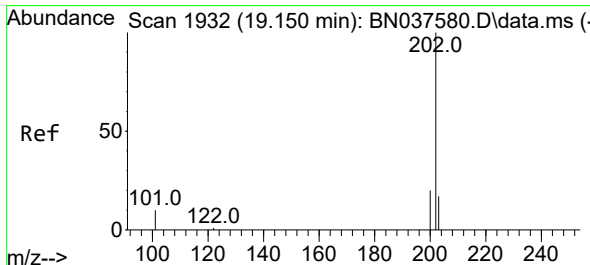
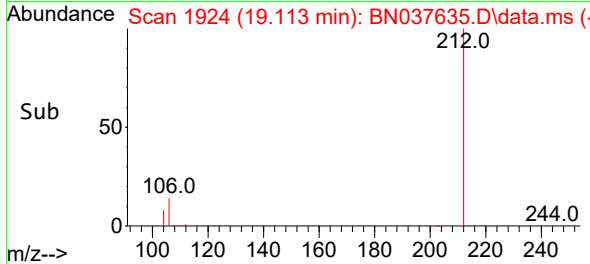
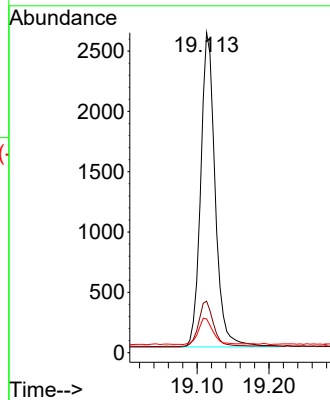
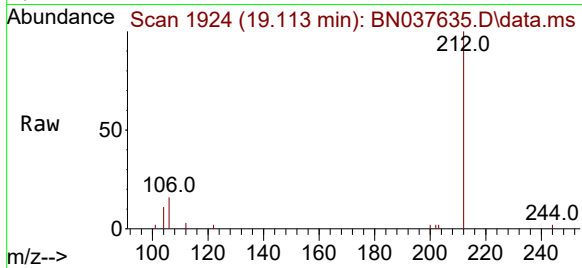




#27
Fluoranthene-d10
Concen: 0.325 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.009 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

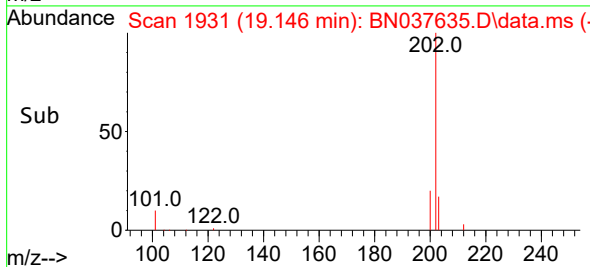
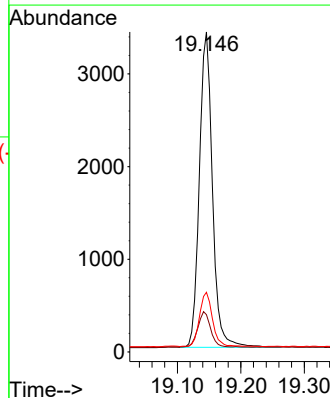
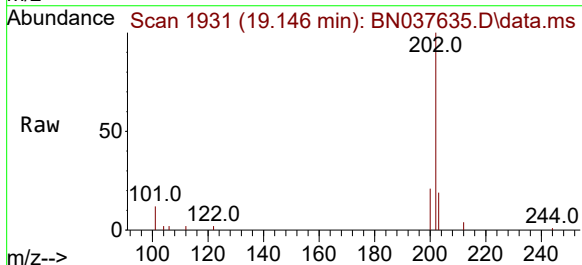
Instrument :
BNA_N
ClientSampleId :
PB169328BS

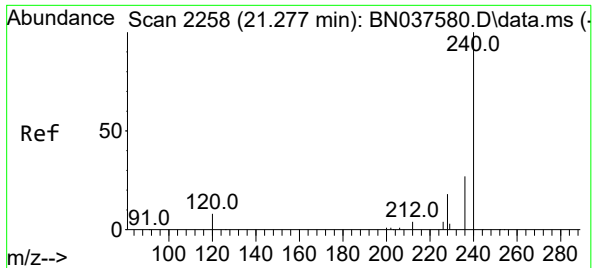
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.9	11.5	17.3
104	8.4	6.6	9.8



#28
Fluoranthene
Concen: 0.326 ng
RT: 19.146 min Scan# 1931
Delta R.T. -0.004 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.8	9.0	13.6
203	16.9	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

Instrument :

BNA_N

ClientSampleId :

PB169328BS

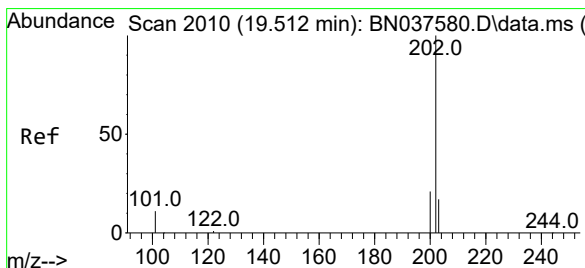
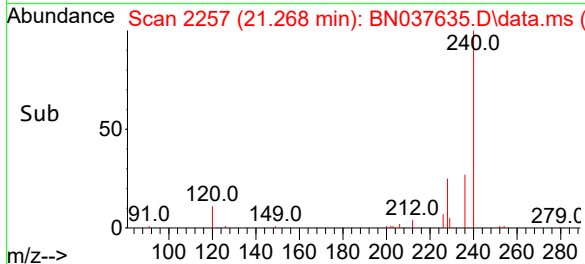
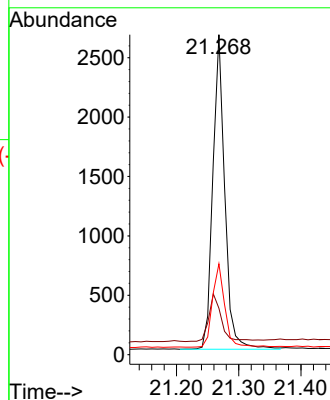
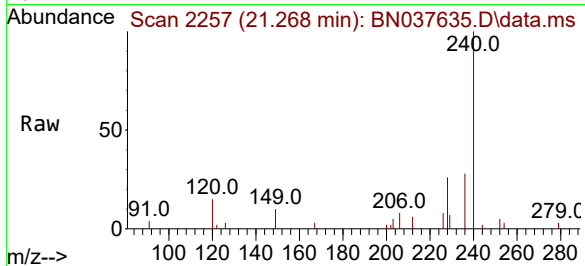
Tgt Ion:240 Resp: 3523

Ion Ratio Lower Upper

240 100

120 14.5 8.9 13.3#

236 28.4 22.6 33.8



#30

Pyrene

Concen: 0.357 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.004 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

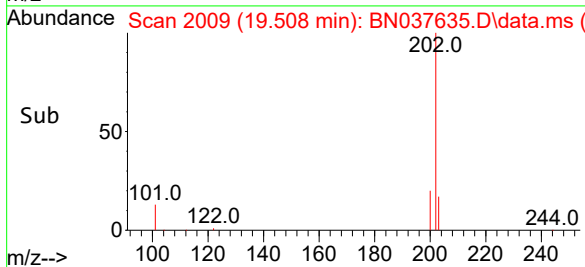
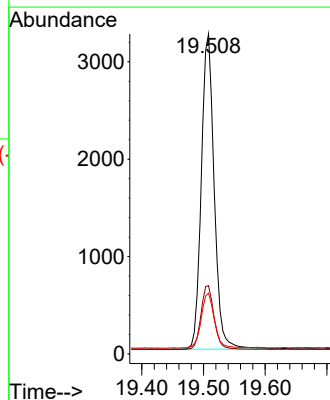
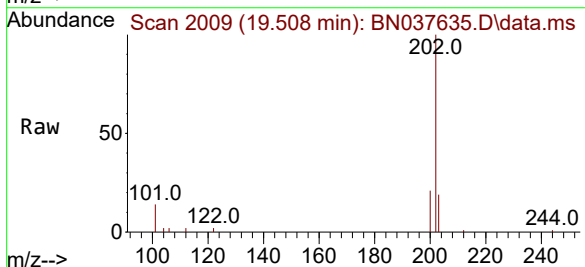
Tgt Ion:202 Resp: 4706

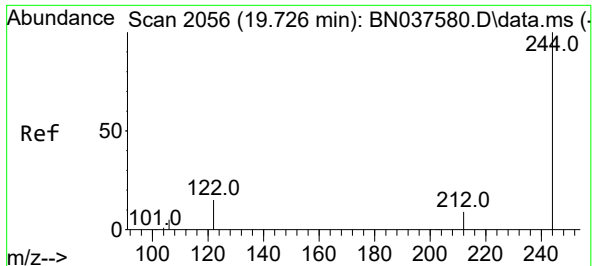
Ion Ratio Lower Upper

202 100

200 20.7 16.6 25.0

203 18.0 14.3 21.5

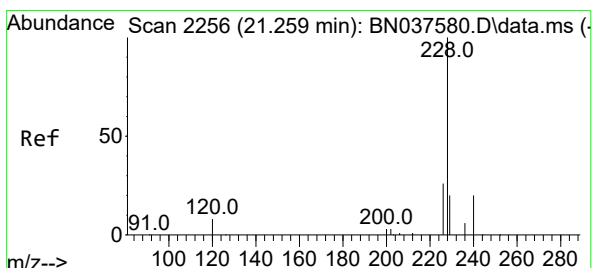
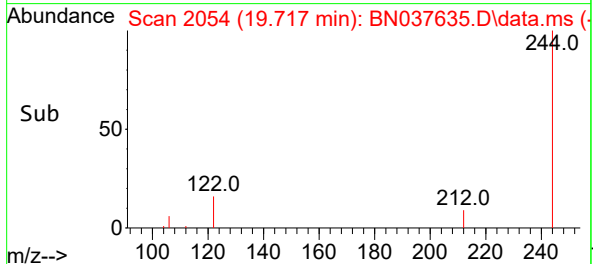
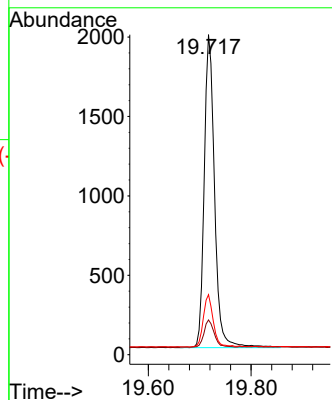
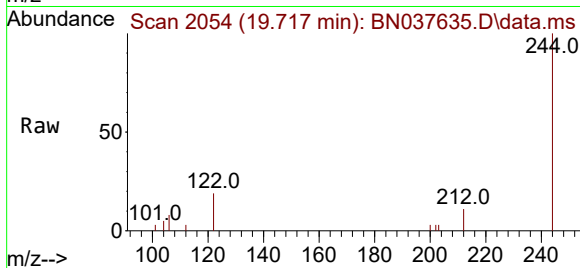




#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

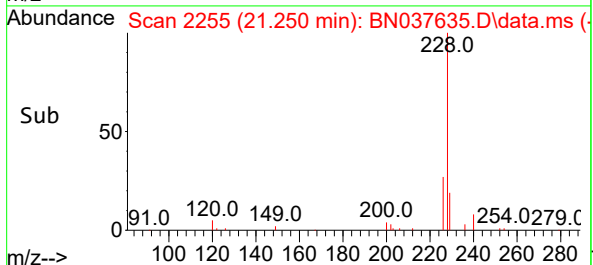
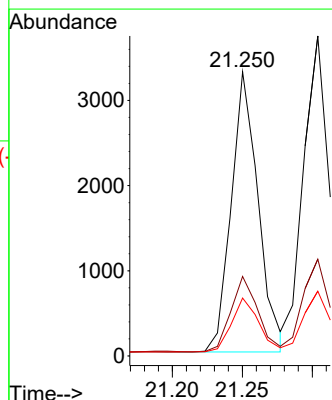
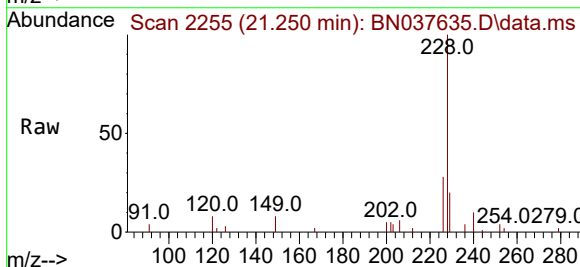
Instrument :
BNA_N
ClientSampleId :
PB169328BS

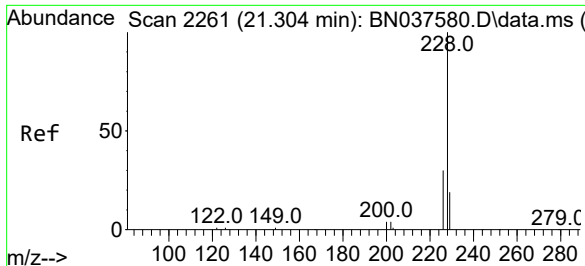
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.9	8.2	12.2
122	18.8	13.2	19.8



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	21.5	32.3
229	20.4	16.5	24.7





#33

Chrysene

Concen: 0.384 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

Instrument :

BNA_N

ClientSampleId :

PB169328BS

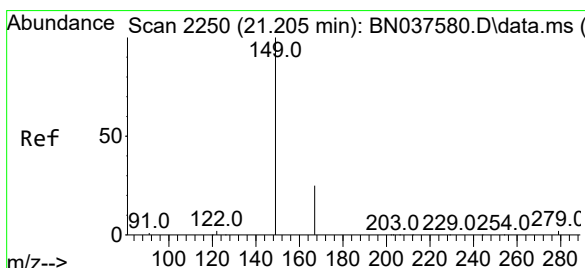
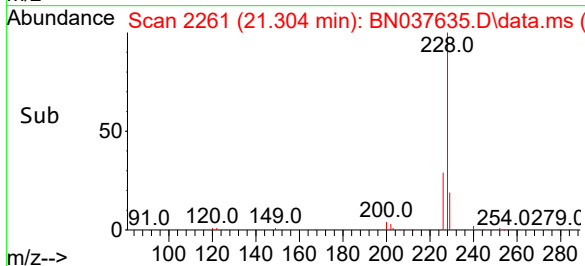
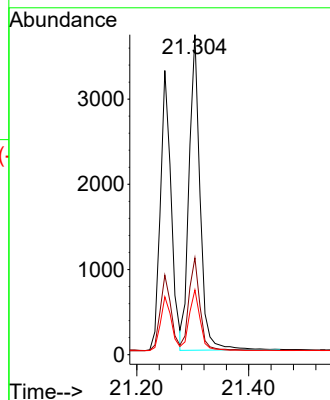
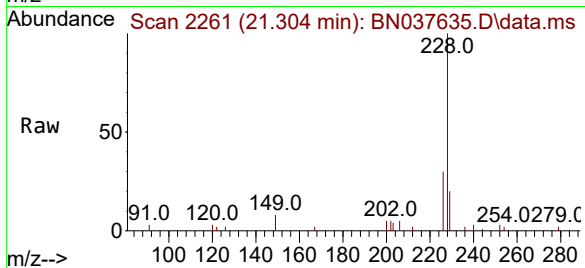
Tgt Ion:228 Resp: 5035

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

229 20.2 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.361 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

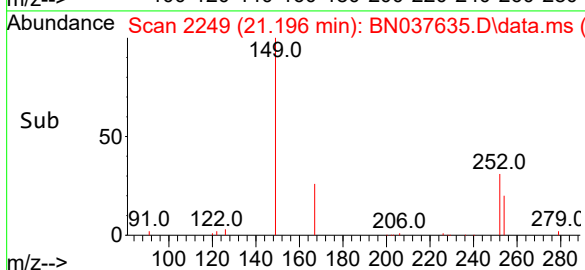
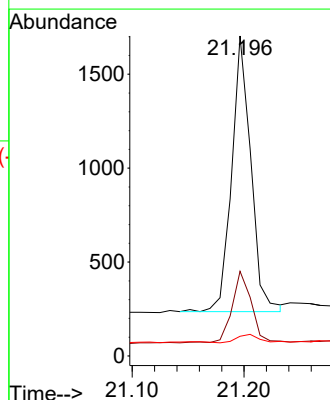
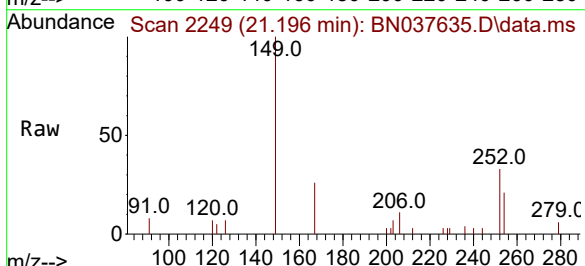
Tgt Ion:149 Resp: 1752

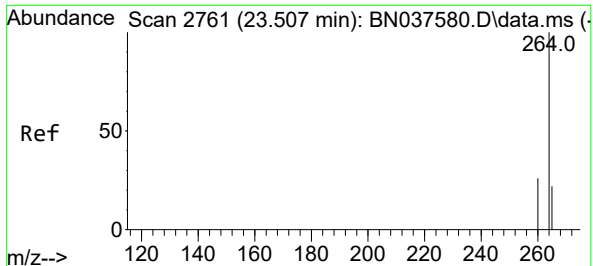
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

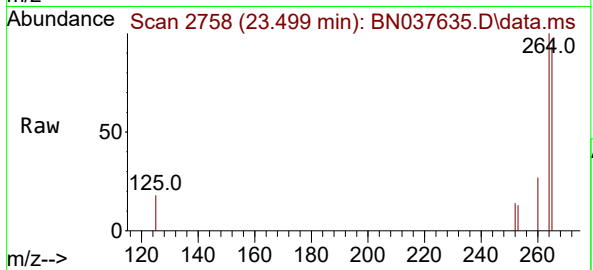
279 3.8 2.6 4.0



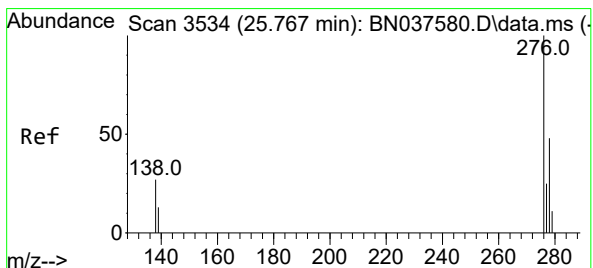
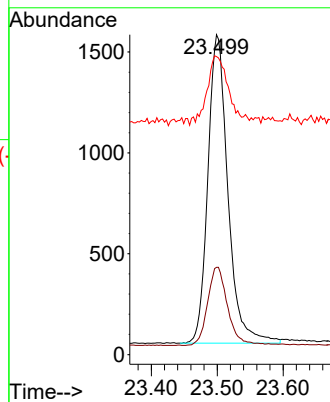
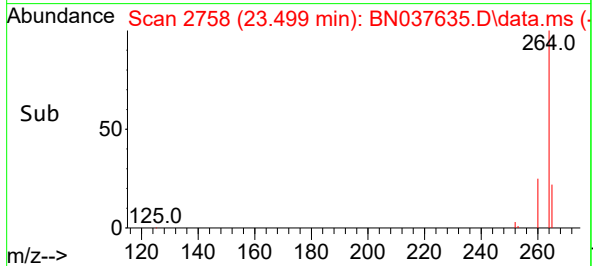


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.499 min Scan# 21
Delta R.T. -0.008 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Instrument :
BNA_N
ClientSampleId :
PB169328BS

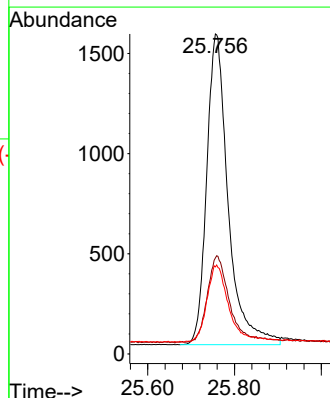
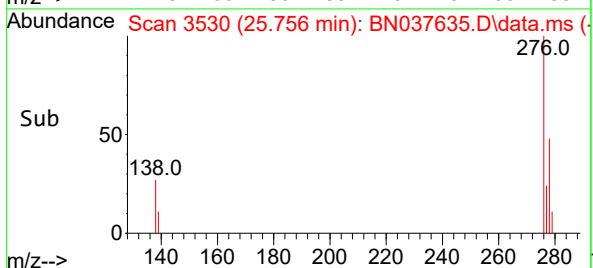
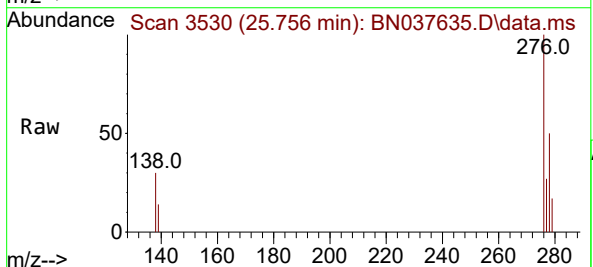


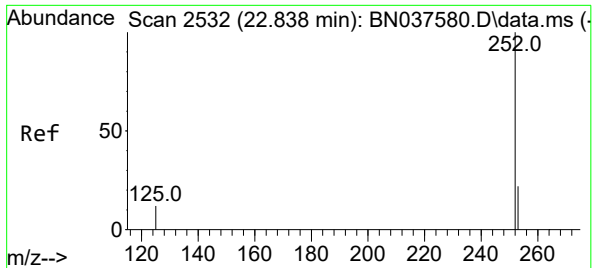
Tgt Ion:264 Resp: 3228
Ion Ratio Lower Upper
264 100
260 27.3 21.6 32.4
265 93.1 48.2 72.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.392 ng
RT: 25.756 min Scan# 3530
Delta R.T. -0.011 min
Lab File: BN037635.D
Acq: 20 Aug 2025 18:10

Tgt Ion:276 Resp: 5331
Ion Ratio Lower Upper
276 100
138 27.9 23.3 34.9
277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.401 ng

RT: 22.829 min Scan# 2529

Delta R.T. -0.008 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

Instrument :

BNA_N

ClientSampleId :

PB169328BS

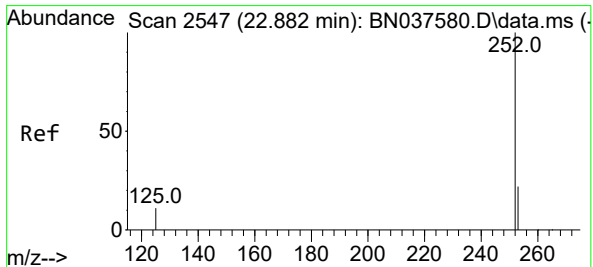
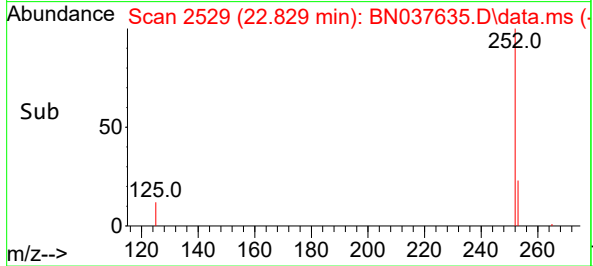
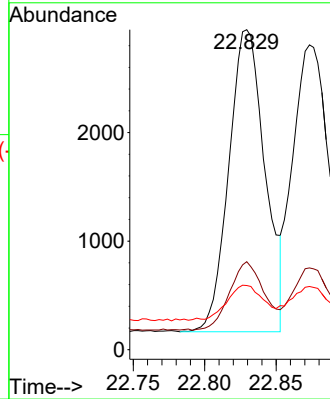
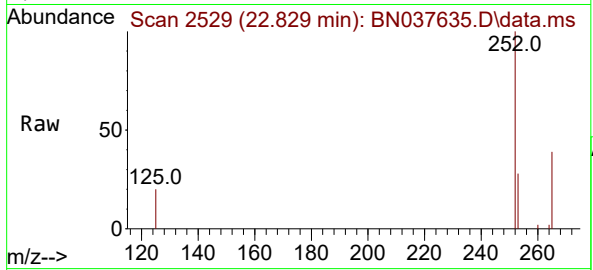
Tgt Ion:252 Resp: 4900

Ion Ratio Lower Upper

252 100

253 27.5 20.0 30.0

125 20.1 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.365 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.008 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

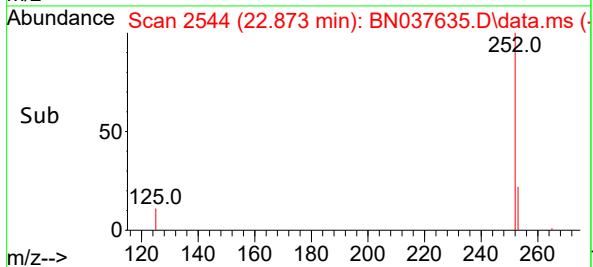
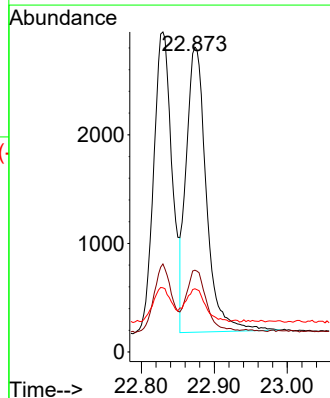
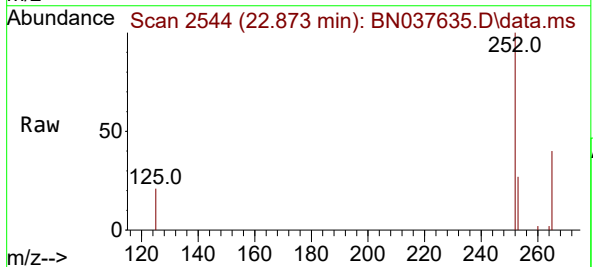
Tgt Ion:252 Resp: 5036

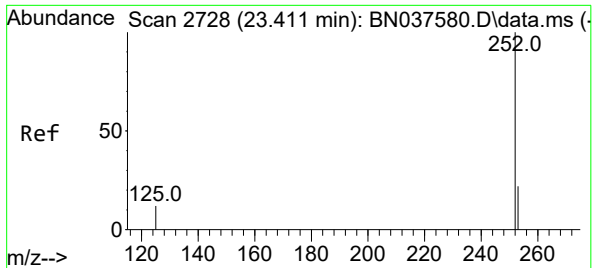
Ion Ratio Lower Upper

252 100

253 26.8 19.9 29.9

125 20.8 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.411 ng

RT: 23.402 min Scan# 21

Delta R.T. -0.008 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

Instrument :

BNA_N

ClientSampleId :

PB169328BS

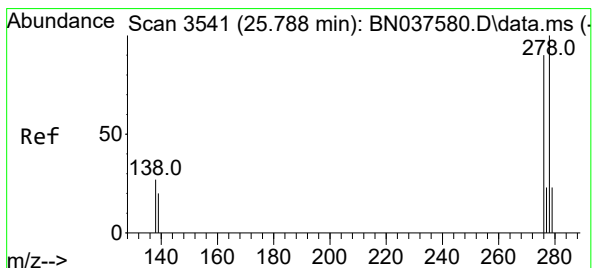
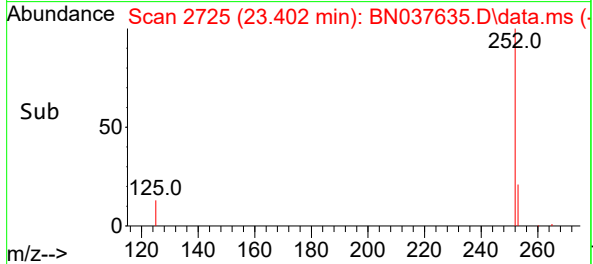
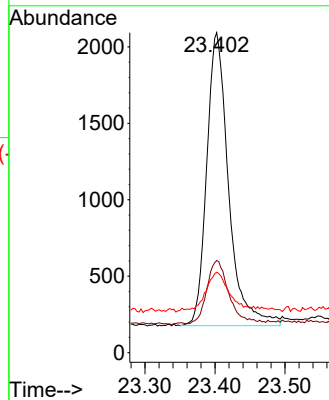
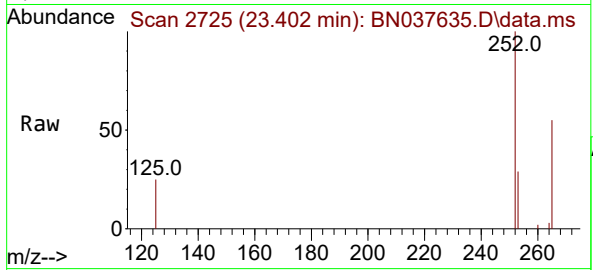
Tgt Ion:252 Resp: 4168

Ion Ratio Lower Upper

252 100

253 28.8 21.6 32.4

125 25.1 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.389 ng

RT: 25.774 min Scan# 3536

Delta R.T. -0.014 min

Lab File: BN037635.D

Acq: 20 Aug 2025 18:10

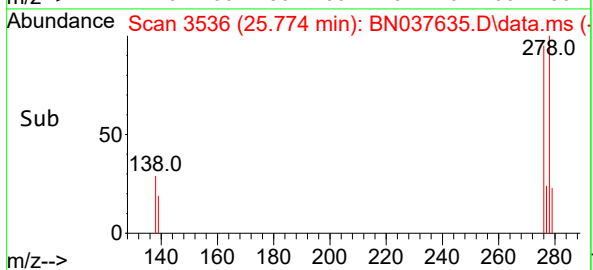
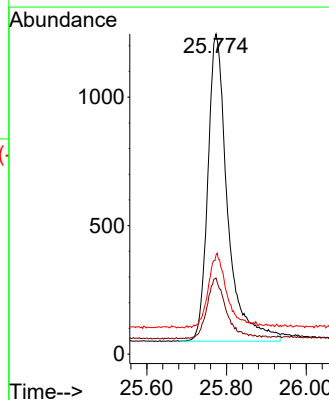
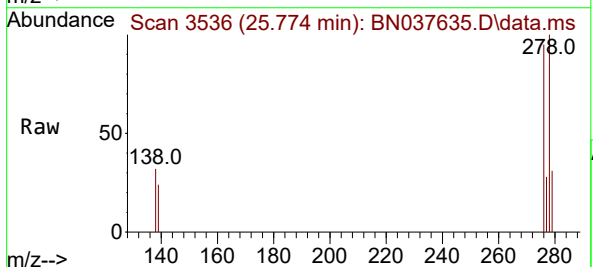
Tgt Ion:278 Resp: 4110

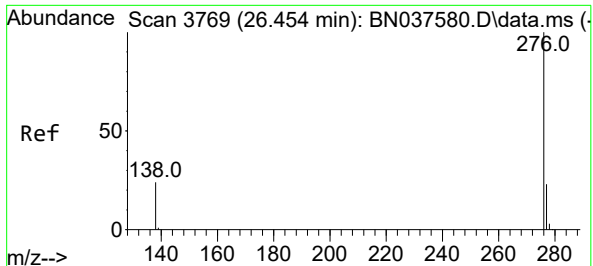
Ion Ratio Lower Upper

278 100

139 23.8 18.3 27.5

279 30.9 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.423 ng

RT: 26.443 min Scan# 31

Delta R.T. -0.011 min

Lab File: BN037635.D

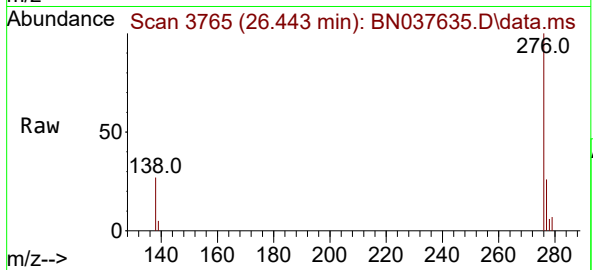
Acq: 20 Aug 2025 18:10

Instrument :

BNA_N

ClientSampleId :

PB169328BS



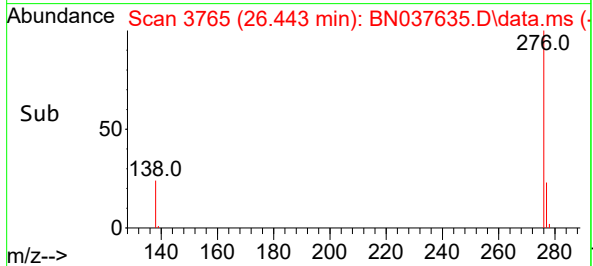
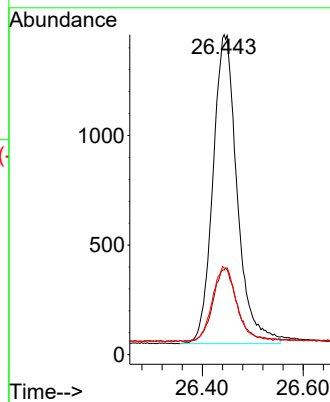
Tgt Ion:276 Resp: 4708

Ion Ratio Lower Upper

276 100

277 26.4 21.0 31.4

138 27.1 21.7 32.5



Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	
Client Sample ID:	PB169328BSD	SDG No.:	Q2886
Lab Sample ID:	PB169328BSD	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
BN037636.D	1	08/20/25 09:05	08/20/25 18:46	PB169328

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.31		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		93%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2350	7.71				
1146-65-2	Naphthalene-d8	5380	10.487				
15067-26-2	Acenaphthene-d10	2390	14.345				
1517-22-2	Phenanthrene-d10	4370	17.086				
1719-03-5	Chrysene-d12	3470	21.268				
1520-96-3	Perylene-d12	3180	23.501				

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\BN082025\
 Data File : BN037636.D
 Acq On : 20 Aug 2025 18:46
 Operator : RC/JU
 Sample : PB169328BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB169328BSD

Quant Time: Aug 21 04:57:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 13 05:00:58 2025
 Response via : Initial Calibration

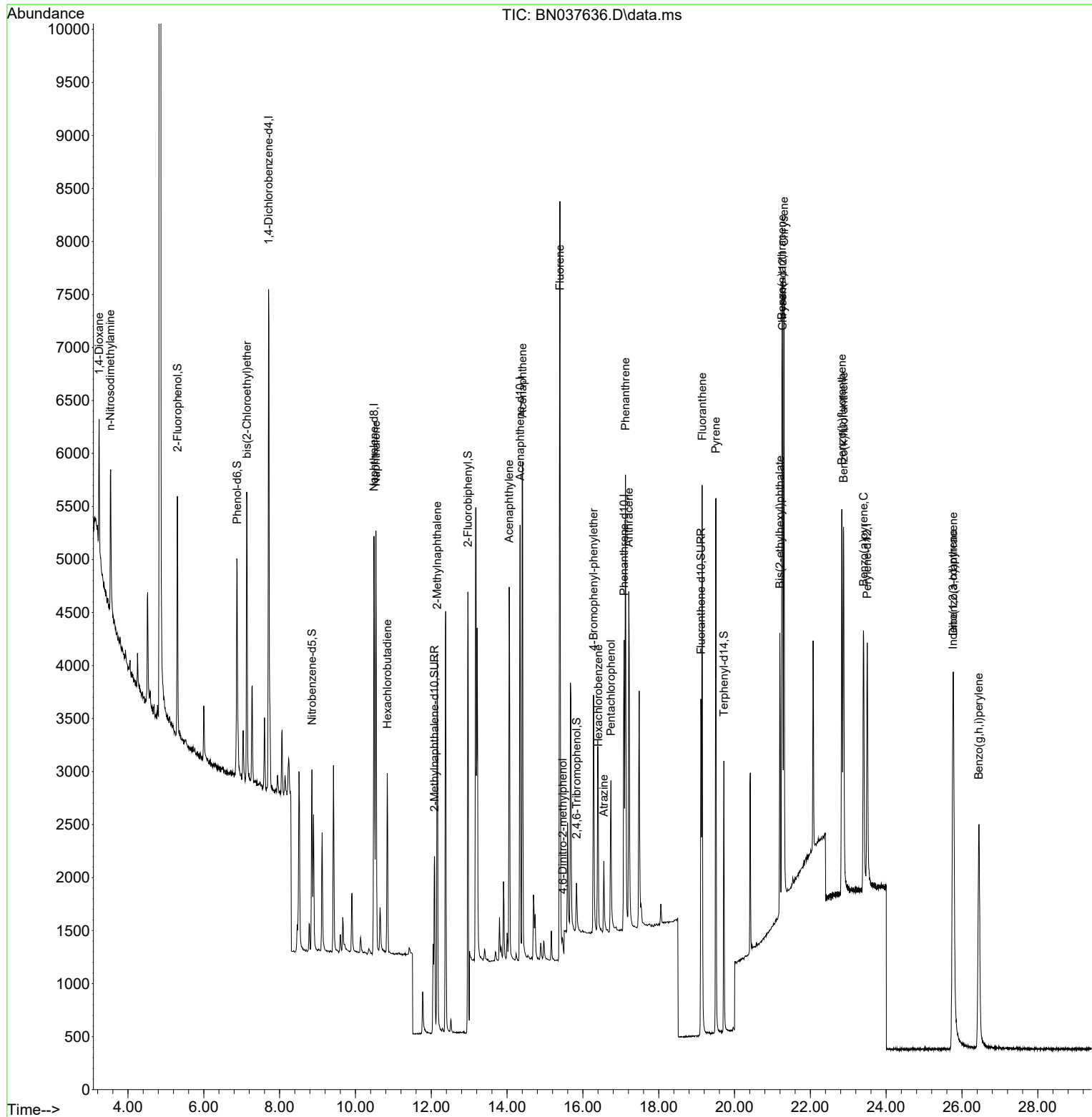
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.710	152	2346	0.400	ng	0.00
7) Naphthalene-d8	10.487	136	5382	0.400	ng	#-0.01
13) Acenaphthene-d10	14.345	164	2393	0.400	ng	0.00
19) Phenanthrene-d10	17.086	188	4365	0.400	ng	0.00
29) Chrysene-d12	21.268	240	3473	0.400	ng	# 0.00
35) Perylene-d12	23.501	264	3177	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.305	112	1752	0.329	ng	0.00
5) Phenol-d6	6.879	99	1957	0.306	ng	0.00
8) Nitrobenzene-d5	8.854	82	1401	0.370	ng	0.00
11) 2-Methylnaphthalene-d10	12.085	152	2458	0.336	ng	0.00
14) 2,4,6-Tribromophenol	15.833	330	336	0.321	ng	0.00
15) 2-Fluorobiphenyl	12.968	172	4984	0.360	ng	-0.01
27) Fluoranthene-d10	19.113	212	3639	0.317	ng	0.00
31) Terphenyl-d14	19.717	244	2708	0.379	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.239	88	686	0.306	ng	# 70
3) n-Nitrosodimethylamine	3.535	42	1025	0.357	ng	98
6) bis(2-Chloroethyl)ether	7.139	93	2035	0.353	ng	96
9) Naphthalene	10.541	128	5079	0.354	ng	99
10) Hexachlorobutadiene	10.840	225	1378	0.394	ng	# 99
12) 2-Methylnaphthalene	12.156	142	2755	0.307	ng	98
16) Acenaphthylene	14.056	152	4211	0.393	ng	99
17) Acenaphthene	14.409	154	2509	0.344	ng	97
18) Fluorene	15.392	166	3240	0.339	ng	99
20) 4,6-Dinitro-2-methylph...	15.467	198	146	0.365	ng	87
21) 4-Bromophenyl-phenylether	16.279	248	993	0.362	ng	# 79
22) Hexachlorobenzene	16.404	284	1568	0.403	ng	97
23) Atrazine	16.552	200	641	0.413	ng	97
24) Pentachlorophenol	16.739	266	821	0.601	ng	97
25) Phenanthrene	17.123	178	4769	0.359	ng	100
26) Anthracene	17.210	178	4180	0.356	ng	99
28) Fluoranthene	19.145	202	4825	0.316	ng	99
30) Pyrene	19.508	202	4714	0.363	ng	100
32) Benzo(a)anthracene	21.250	228	4227	0.364	ng	98
33) Chrysene	21.304	228	4944	0.382	ng	99
34) Bis(2-ethylhexyl)phtha...	21.196	149	1720	0.359	ng	96
36) Indeno(1,2,3-cd)pyrene	25.761	276	5153	0.385	ng	99
37) Benzo(b)fluoranthene	22.832	252	4699	0.390	ng	95
38) Benzo(k)fluoranthene	22.876	252	4893	0.360	ng	96
39) Benzo(a)pyrene	23.402	252	4041	0.405	ng	# 94
40) Dibenzo(a,h)anthracene	25.773	278	3907	0.376	ng	96
41) Benzo(g,h,i)perylene	26.446	276	4575	0.418	ng	99

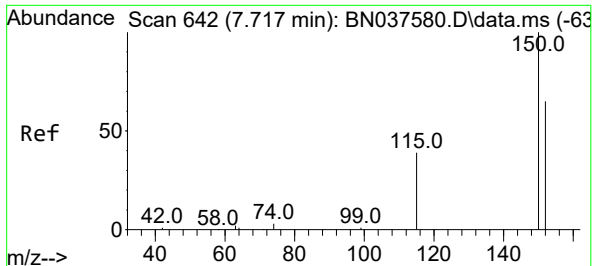
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN082025\
Data File : BN037636.D
Acq On : 20 Aug 2025 18:46
Operator : RC/JU
Sample : PB169328BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB169328BSD

Quant Time: Aug 21 04:57:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN081225.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 13 05:00:58 2025
Response via : Initial Calibration

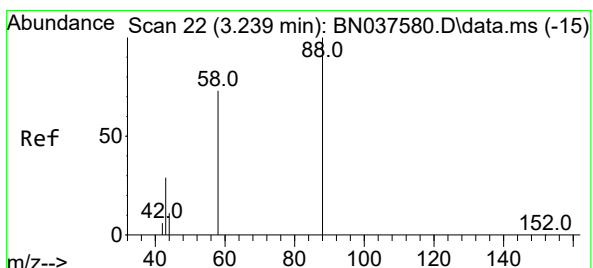
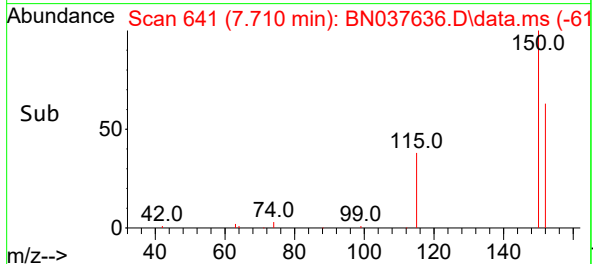
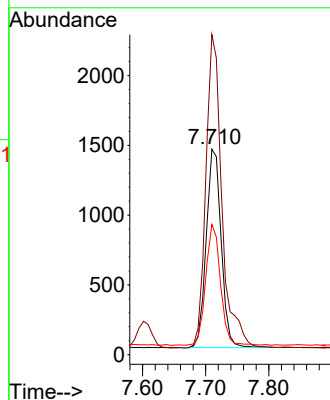
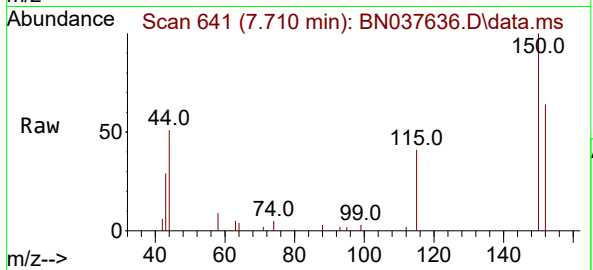




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.710 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

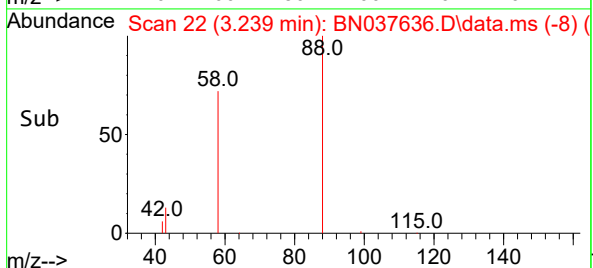
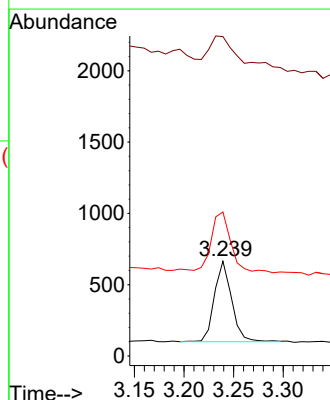
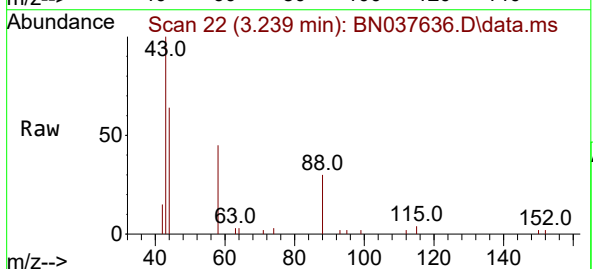
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

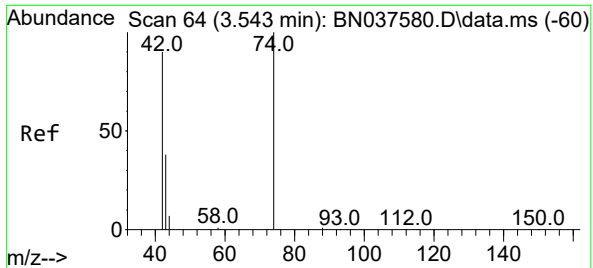
Tgt Ion:152 Resp: 2346
Ion Ratio Lower Upper
152 100
150 155.8 122.2 183.4
115 63.4 49.8 74.6



#2
1,4-Dioxane
Concen: 0.306 ng
RT: 3.239 min Scan# 22
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion: 88 Resp: 686
Ion Ratio Lower Upper
88 100
43 76.8 25.8 38.6#
58 83.8 61.2 91.8

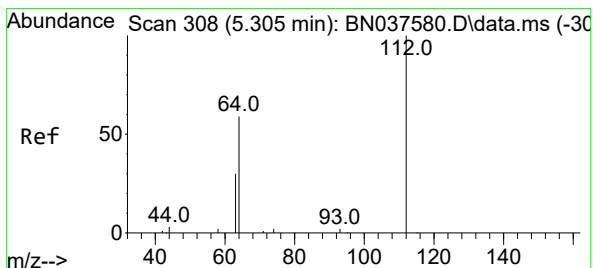
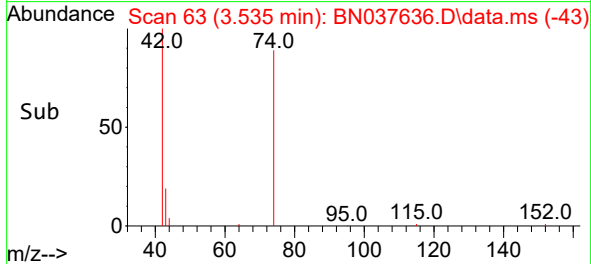
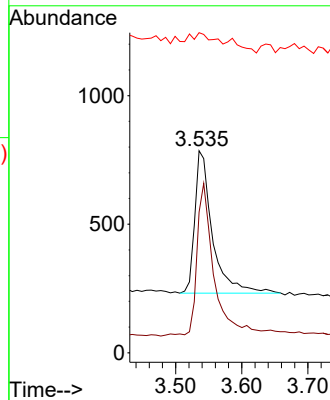
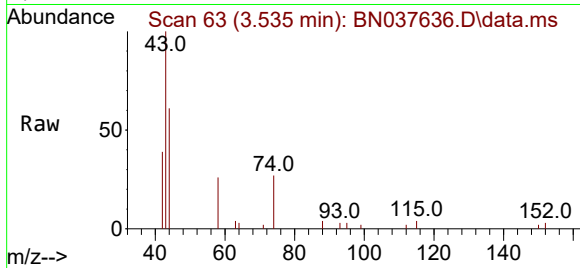




#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.535 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

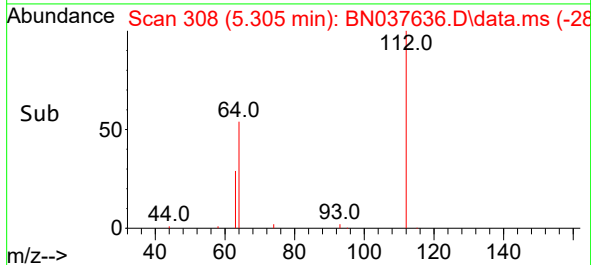
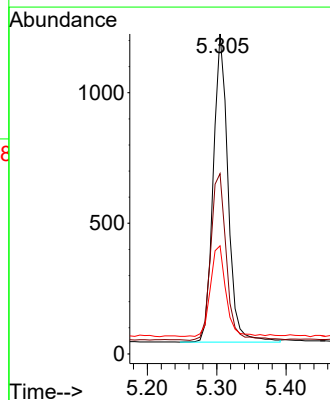
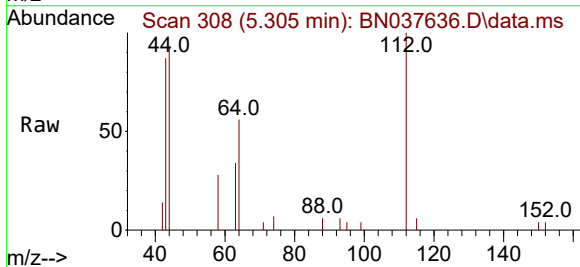
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

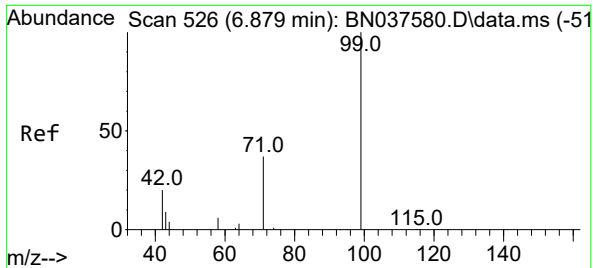
Tgt Ion: 42 Resp: 1025
Ion Ratio Lower Upper
42 100
74 104.5 82.0 123.0
44 8.1 7.9 11.9



#4
2-Fluorophenol
Concen: 0.329 ng
RT: 5.305 min Scan# 308
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion: 112 Resp: 1752
Ion Ratio Lower Upper
112 100
64 57.2 44.9 67.3
63 30.7 23.4 35.2

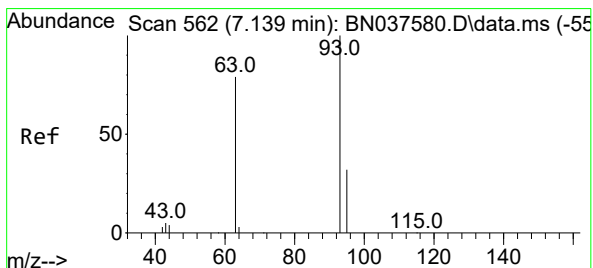
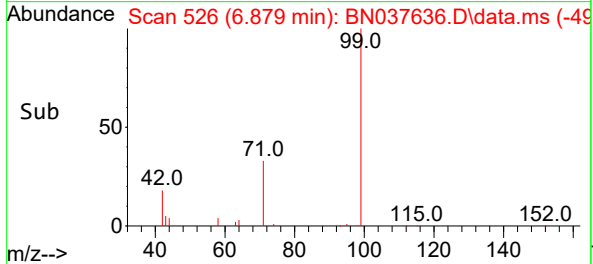
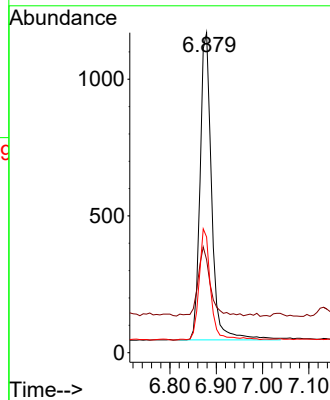
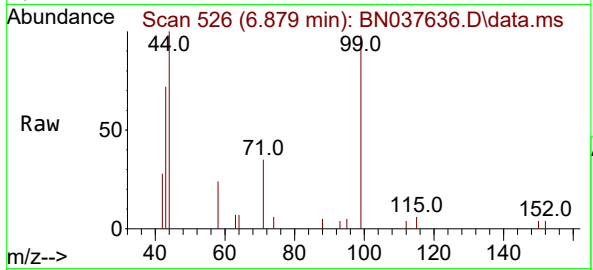




#5
Phenol-d6
Concen: 0.306 ng
RT: 6.879 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

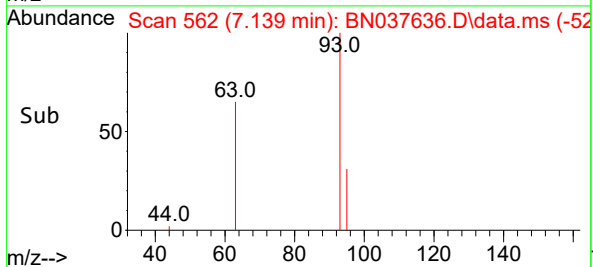
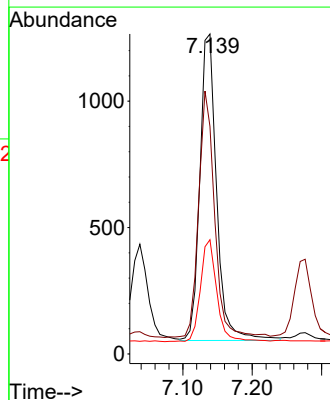
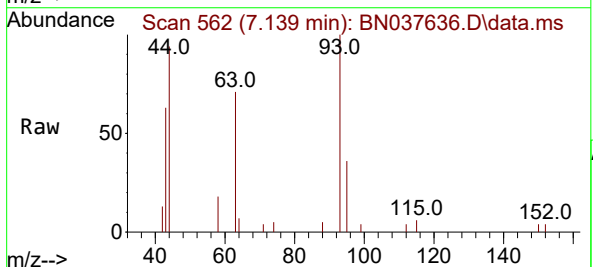
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

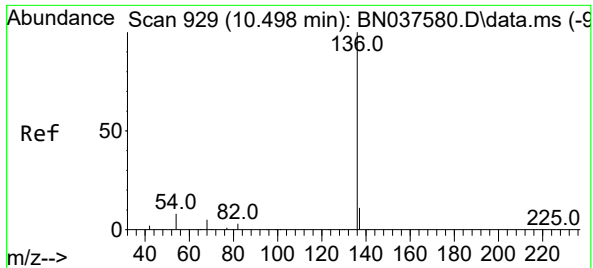
Tgt Ion: 99 Resp: 1957
Ion Ratio Lower Upper
99 100
42 23.8 18.5 27.7
71 35.9 28.6 42.8



#6
bis(2-Chloroethyl)ether
Concen: 0.353 ng
RT: 7.139 min Scan# 562
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion: 93 Resp: 2035
Ion Ratio Lower Upper
93 100
63 76.9 58.0 87.0
95 32.5 24.9 37.3

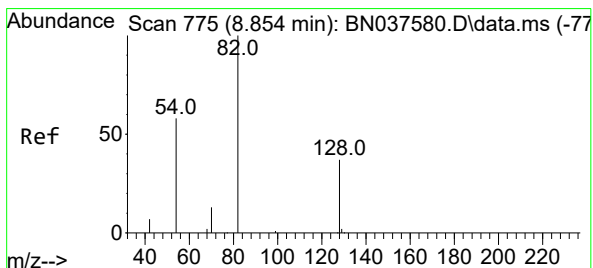
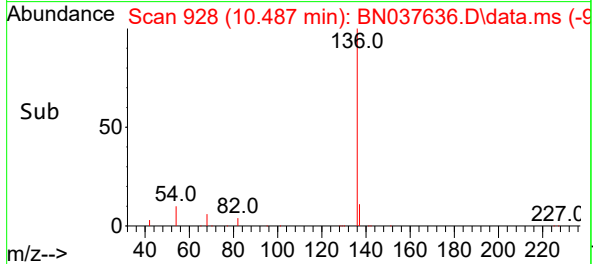
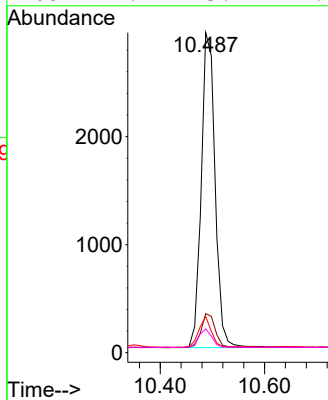
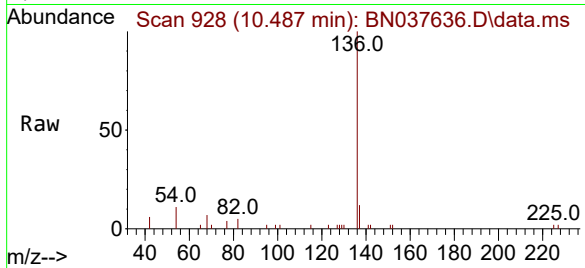




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.487 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

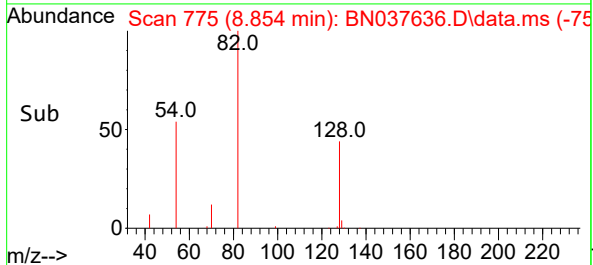
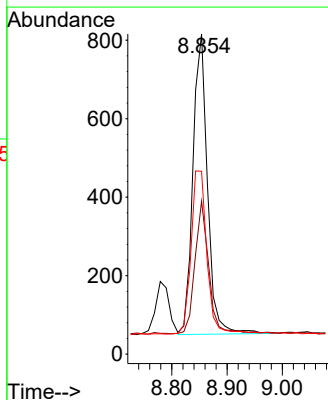
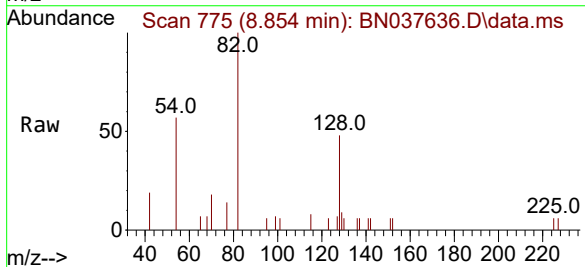
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

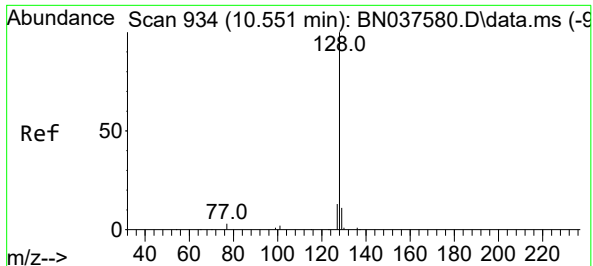
Tgt Ion:	136	Resp:	5382
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.5	14.3
54	11.3	7.3	10.9
68	7.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.370 ng
RT: 8.854 min Scan# 775
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:	82	Resp:	1401
Ion	Ratio	Lower	Upper
82	100		
128	47.8	32.6	48.8
54	57.1	48.9	73.3

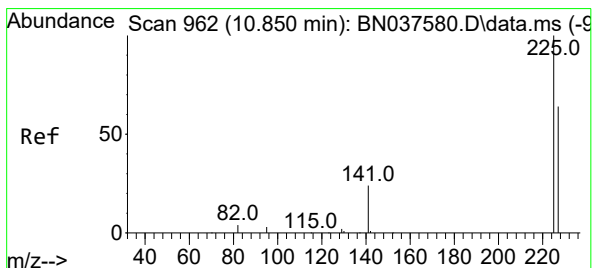
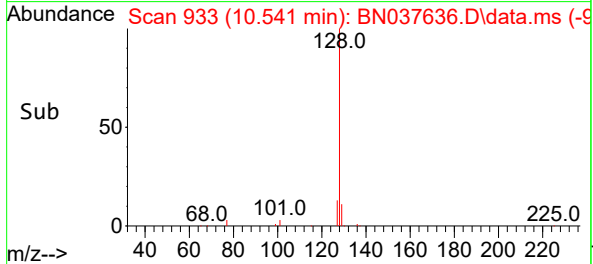
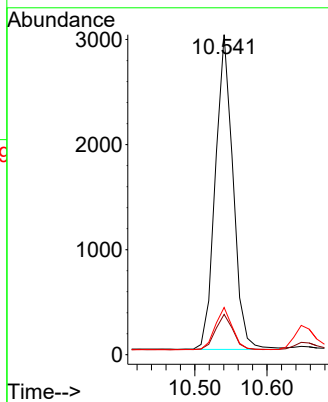
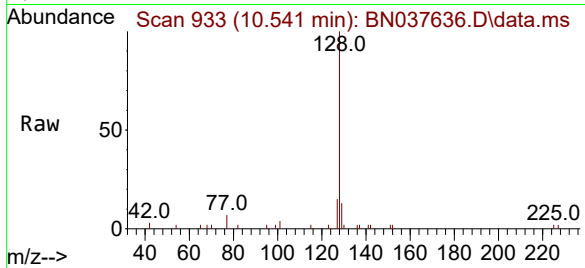




#9
Naphthalene
Concen: 0.354 ng
RT: 10.541 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

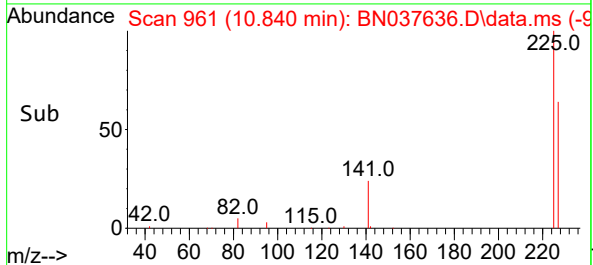
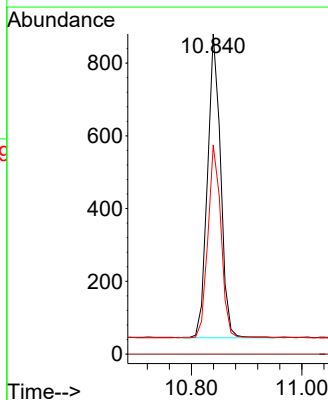
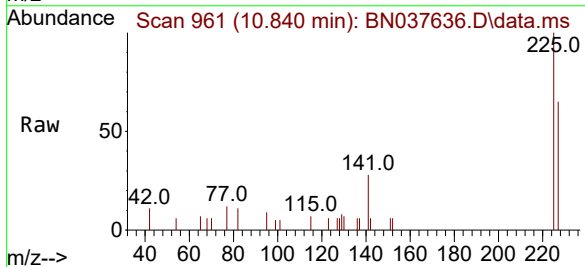
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

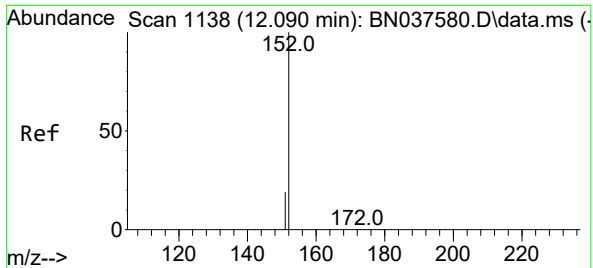
Tgt Ion	128	129	127
Resp:	5079		
Ion Ratio	100	12.6	14.7
Lower		9.8	11.5
Upper		14.6	17.3



#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.840 min Scan# 961
Delta R.T. -0.011 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion	225	223	227
Resp:	1378		
Ion Ratio	100	0.0	63.1
Lower		0.0	50.8
Upper		0.0	76.2

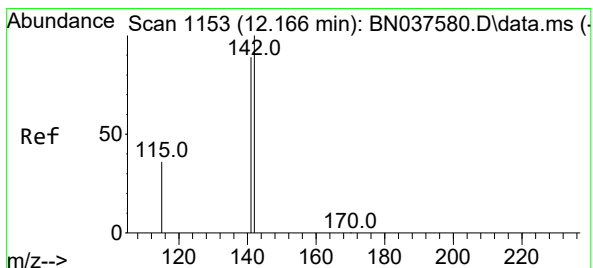
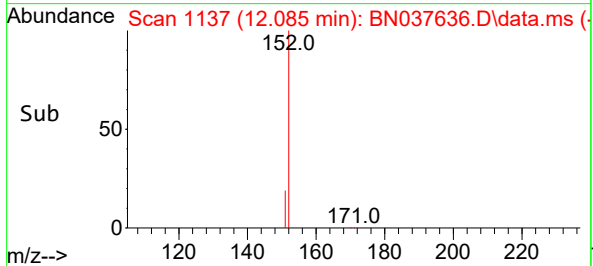
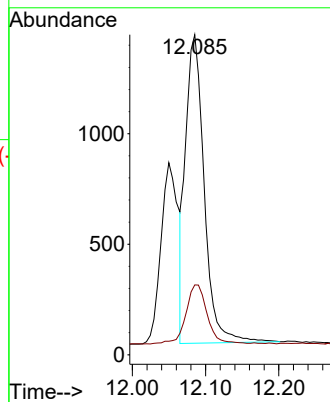
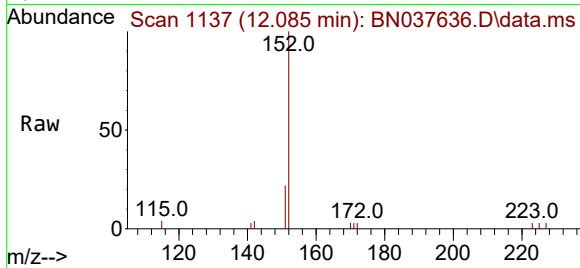




#11
2-Methylnaphthalene-d10
Concen: 0.336 ng
RT: 12.085 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

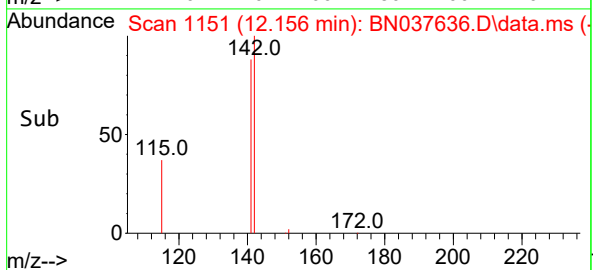
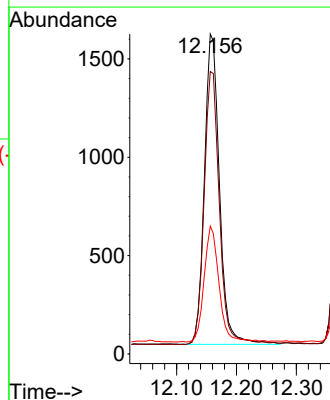
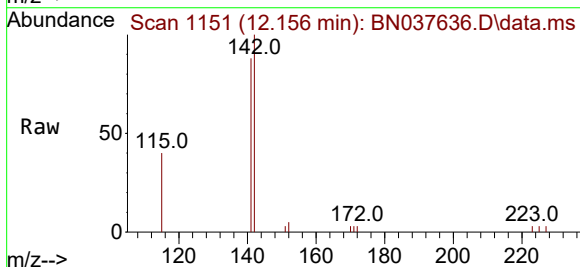
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

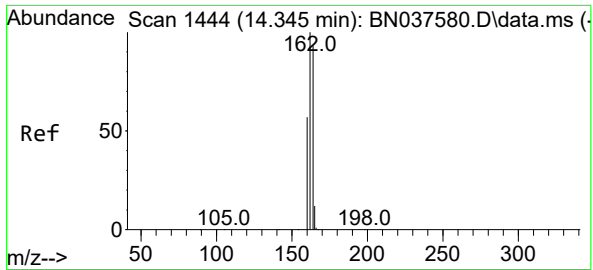
Tgt Ion:152 Resp: 2458
Ion Ratio Lower Upper
152 100
151 22.0 17.3 25.9



#12
2-Methylnaphthalene
Concen: 0.307 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:142 Resp: 2755
Ion Ratio Lower Upper
142 100
141 88.3 71.4 107.0
115 40.0 30.2 45.4

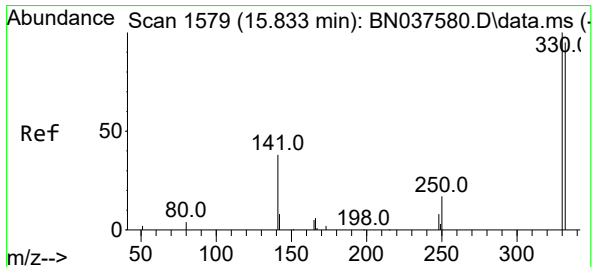
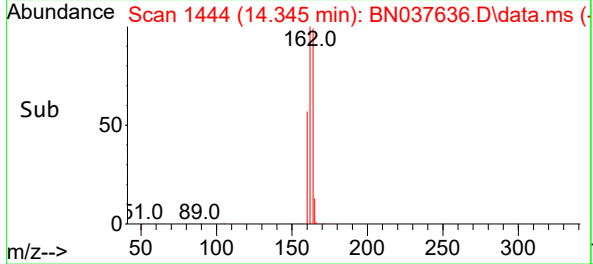
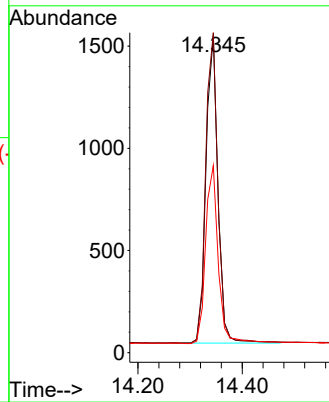
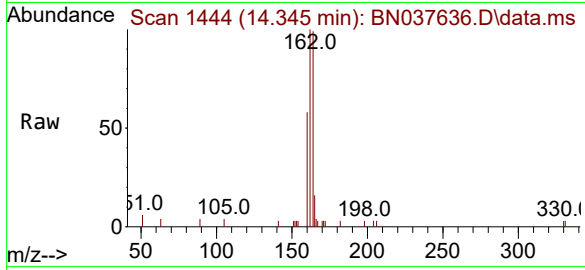




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.345 min Scan# 1444
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

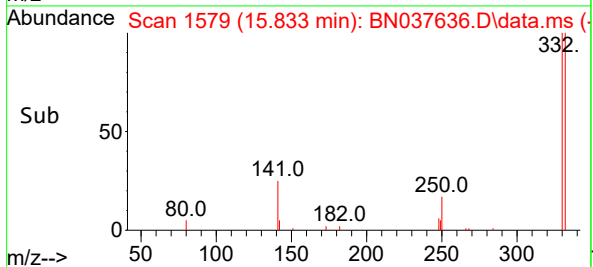
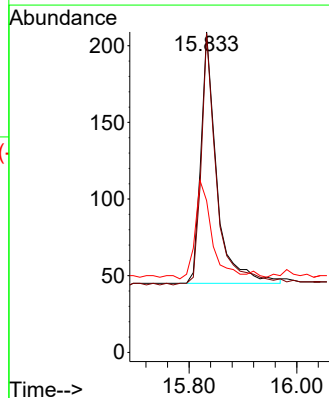
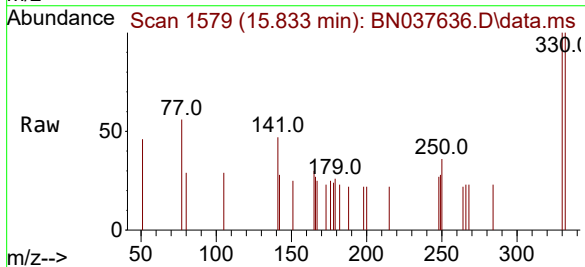
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

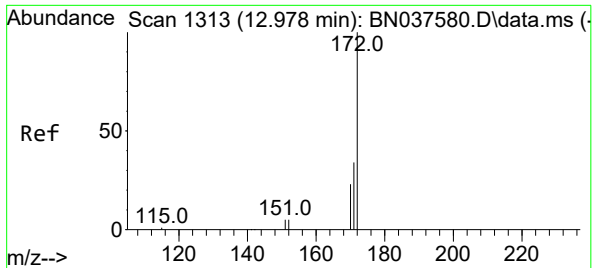
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	85.5	128.3
160	59.0	49.5	74.3



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.833 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.5	77.4	116.0
141	43.2	30.9	46.3

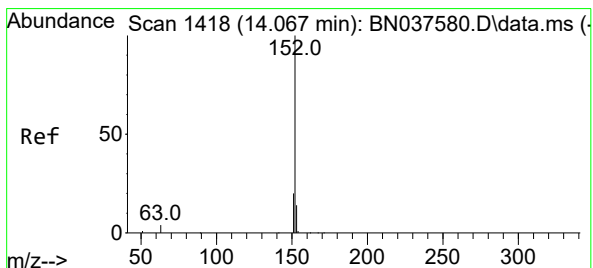
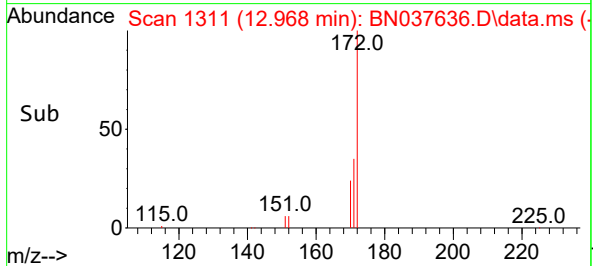
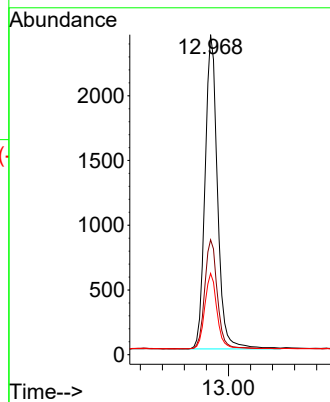
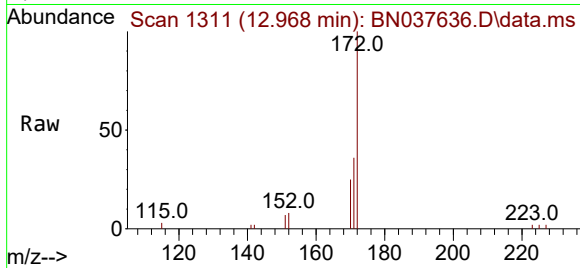




#15
2-Fluorobiphenyl
Concen: 0.360 ng
RT: 12.968 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

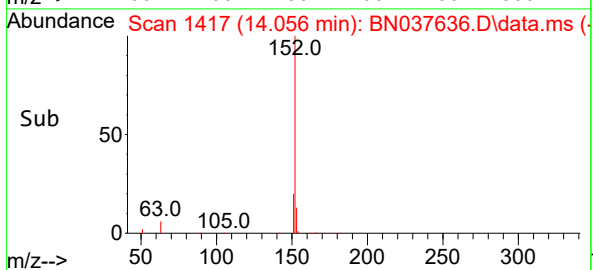
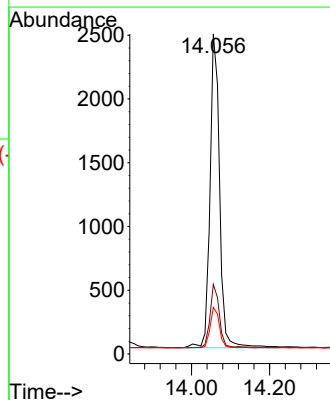
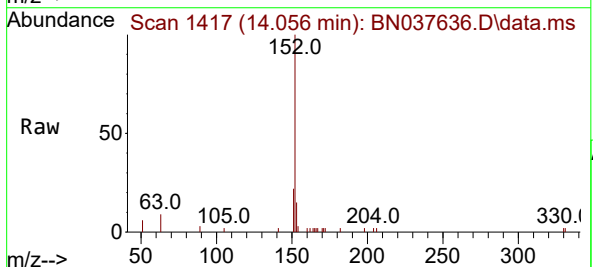
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

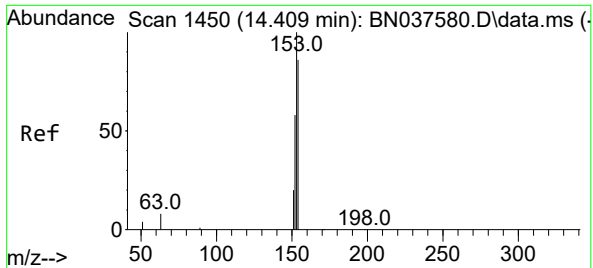
Tgt Ion:	172	Resp:	4984
Ion Ratio	Lower	Upper	
172	100		
171	35.9	28.2	42.4
170	25.4	19.2	28.8



#16
Acenaphthylene
Concen: 0.393 ng
RT: 14.056 min Scan# 1417
Delta R.T. -0.011 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:	152	Resp:	4211
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.1	24.1
153	12.9	10.7	16.1

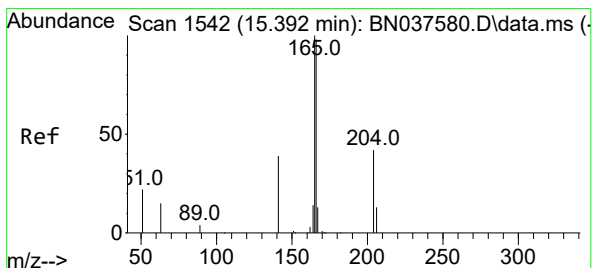
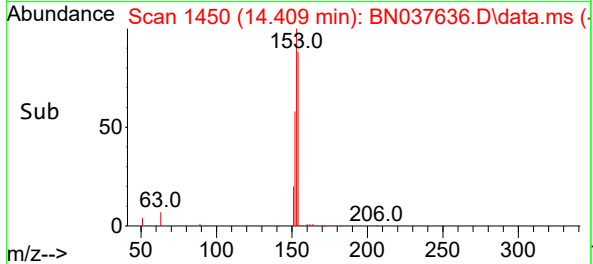
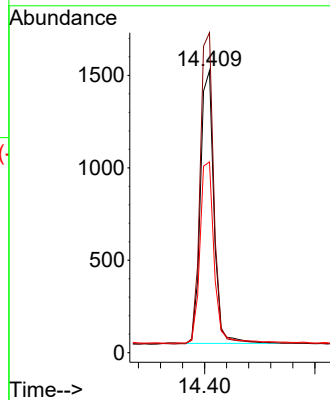
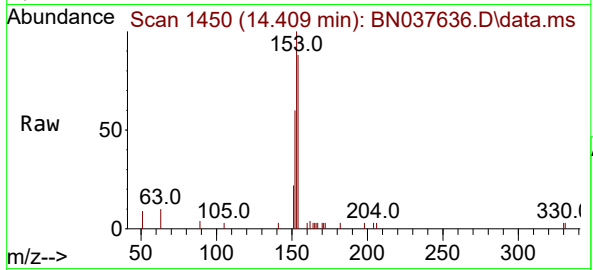




#17
Acenaphthene
Concen: 0.344 ng
RT: 14.409 min Scan# 1450
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

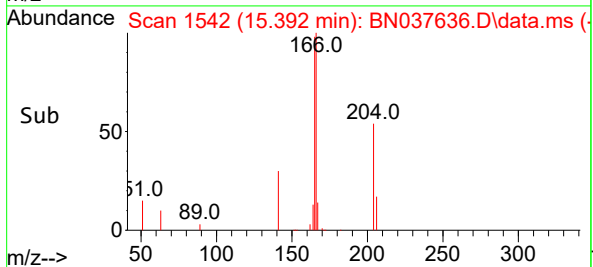
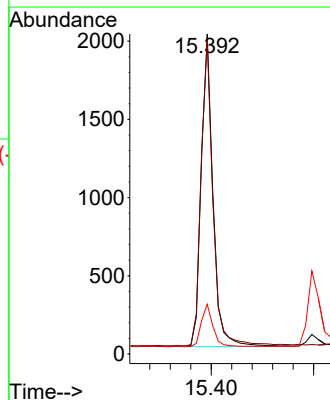
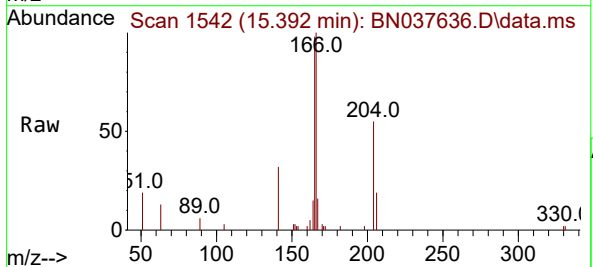
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

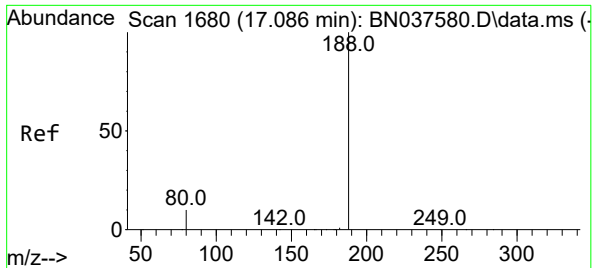
Tgt Ion:154 Resp: 2509
Ion Ratio Lower Upper
154 100
153 116.2 90.6 135.8
152 70.7 54.9 82.3



#18
Fluorene
Concen: 0.339 ng
RT: 15.392 min Scan# 1542
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:166 Resp: 3240
Ion Ratio Lower Upper
166 100
165 99.9 78.9 118.3
167 13.7 10.7 16.1

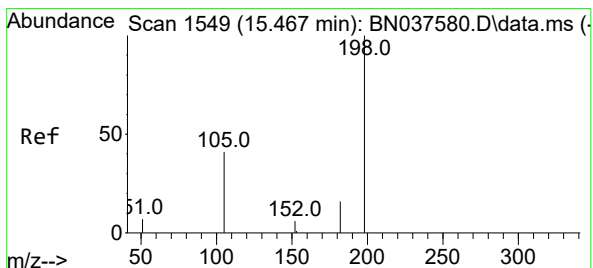
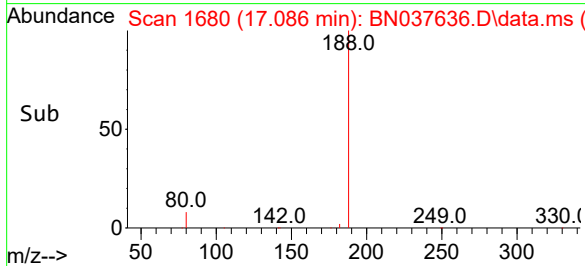
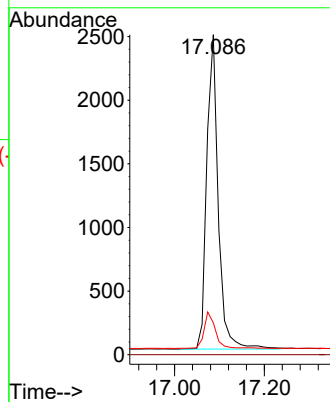
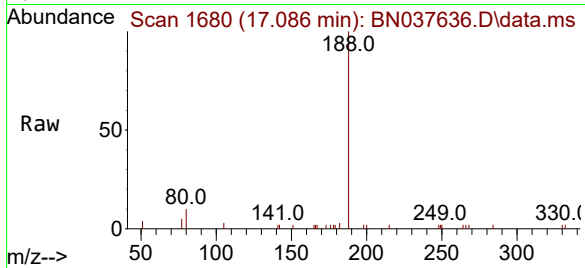




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.086 min Scan# 1680
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

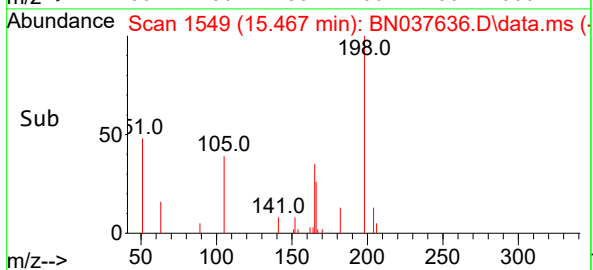
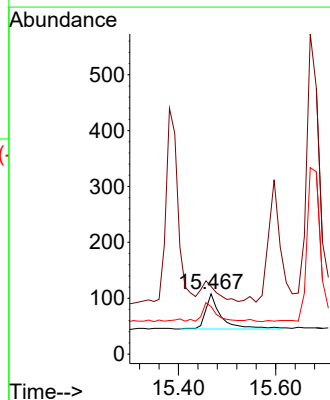
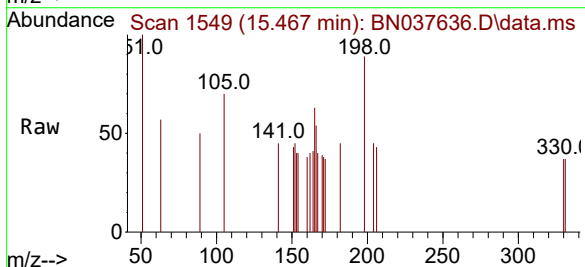
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

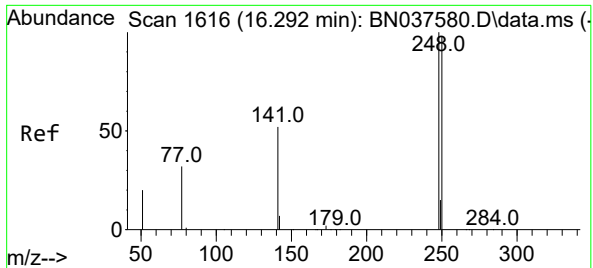
Tgt Ion:188 Resp: 4365
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.0 9.1 13.7



#20
4,6-Dinitro-2-methylphenol
Concen: 0.365 ng
RT: 15.467 min Scan# 1549
Delta R.T. 0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:198 Resp: 146
Ion Ratio Lower Upper
198 100
51 112.0 81.0 121.6
105 78.7 52.5 78.7

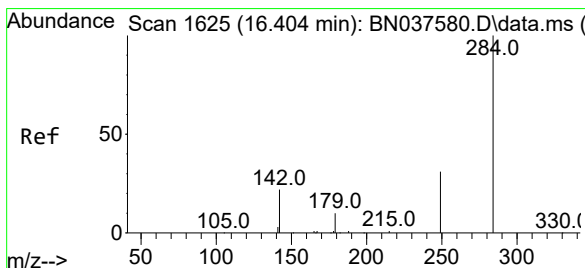
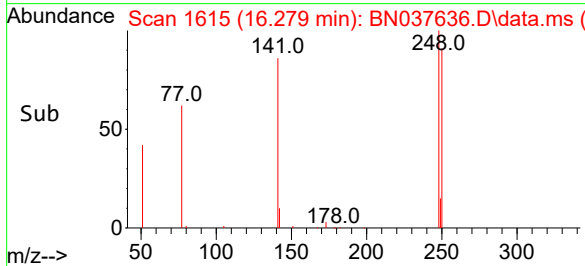
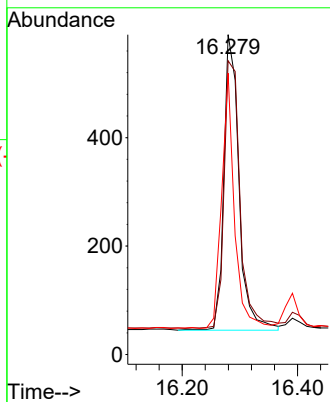
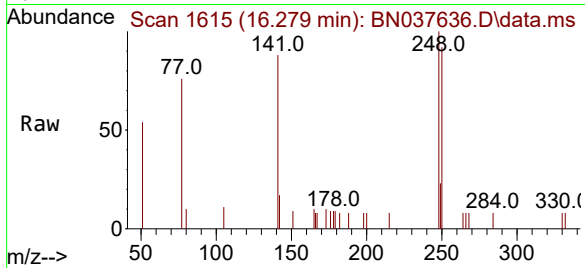




#21
4-Bromophenyl-phenylether
Concen: 0.362 ng
RT: 16.279 min Scan# 1615
Delta R.T. -0.012 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

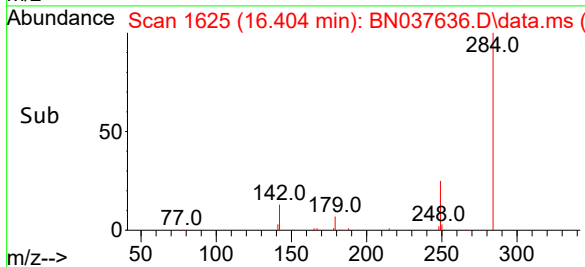
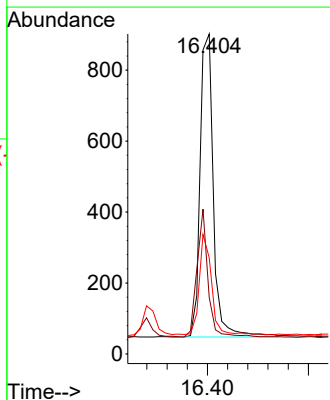
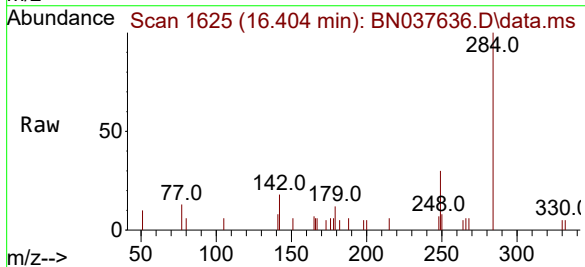
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

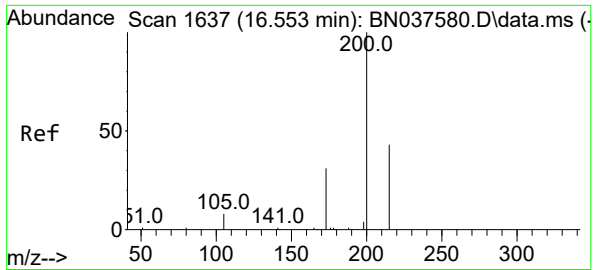
Tgt Ion:248 Resp: 993
Ion Ratio Lower Upper
248 100
250 91.9 78.6 118.0
141 88.0 43.7 65.5#



#22
Hexachlorobenzene
Concen: 0.403 ng
RT: 16.404 min Scan# 1625
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:284 Resp: 1568
Ion Ratio Lower Upper
284 100
142 34.9 29.8 44.6
249 30.8 26.0 39.0





#23

Atrazine

Concen: 0.413 ng

RT: 16.552 min Scan# 1637

Delta R.T. -0.001 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

Instrument :

BNA_N

ClientSampleId :

PB169328BSD

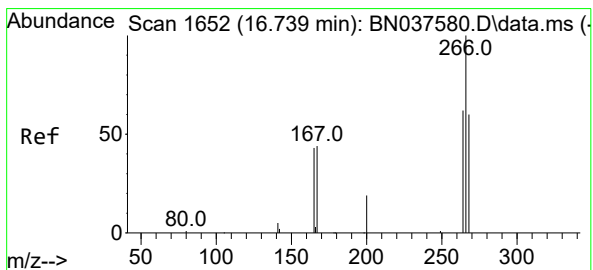
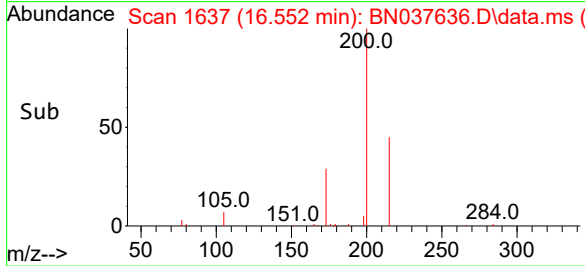
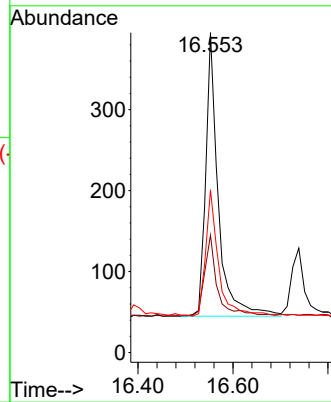
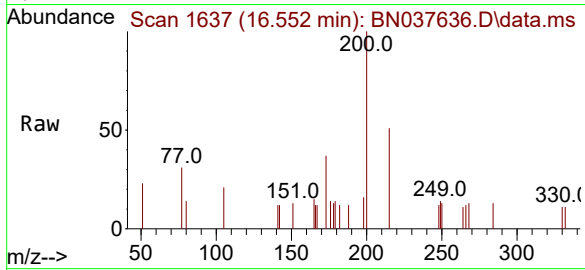
Tgt Ion:200 Resp: 641

Ion Ratio Lower Upper

200 100

173 36.7 31.0 46.4

215 50.9 39.4 59.0



#24

Pentachlorophenol

Concen: 0.601 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

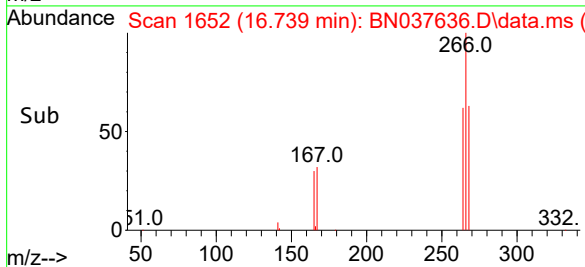
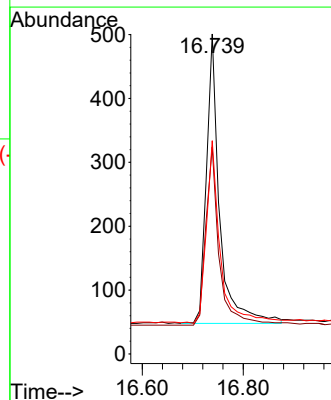
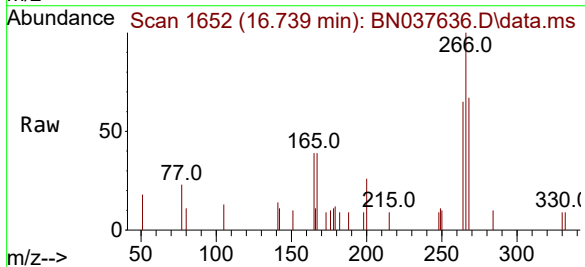
Tgt Ion:266 Resp: 821

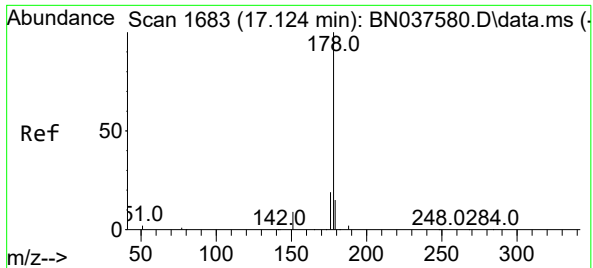
Ion Ratio Lower Upper

266 100

264 62.7 49.6 74.4

268 65.2 49.2 73.8

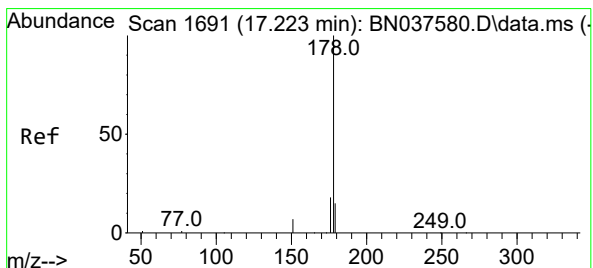
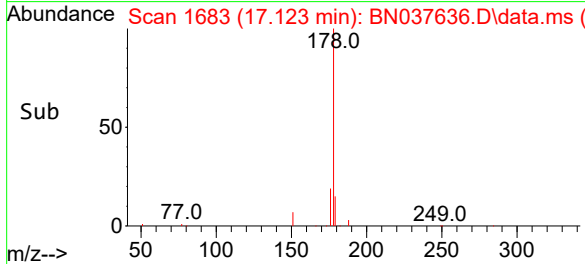
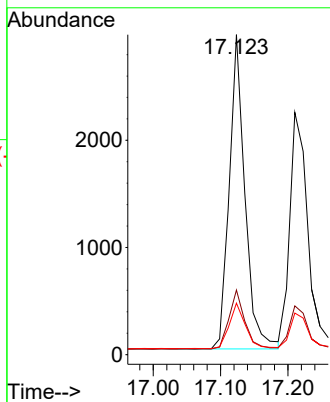
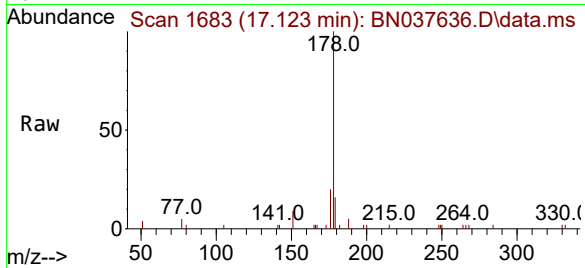




#25
Phenanthrene
Concen: 0.359 ng
RT: 17.123 min Scan# 1683
Delta R.T. -0.000 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

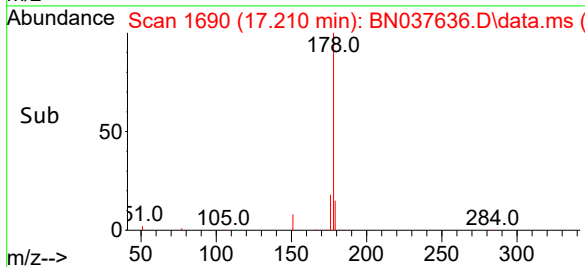
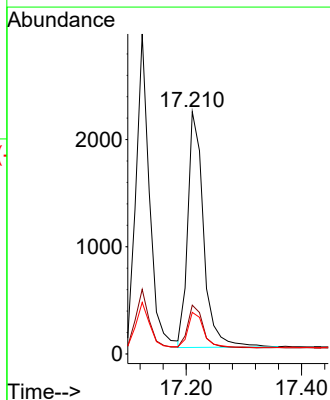
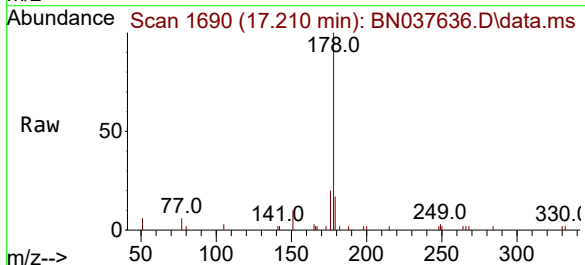
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

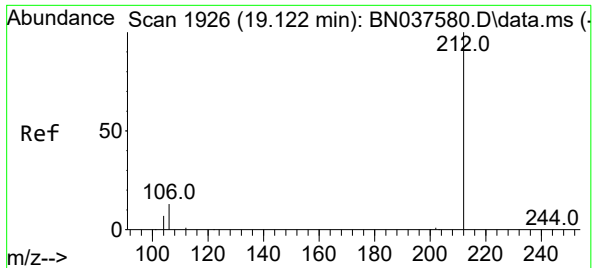
Tgt Ion:178 Resp: 4769
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.3 18.5



#26
Anthracene
Concen: 0.356 ng
RT: 17.210 min Scan# 1690
Delta R.T. -0.012 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:178 Resp: 4180
Ion Ratio Lower Upper
178 100
176 18.1 14.7 22.1
179 15.1 12.3 18.5

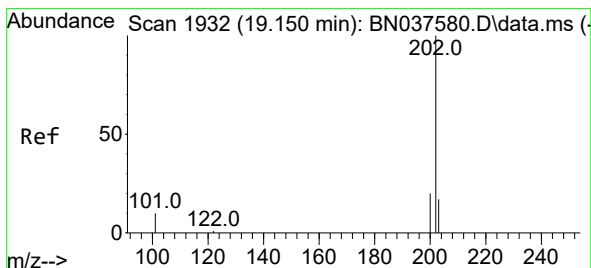
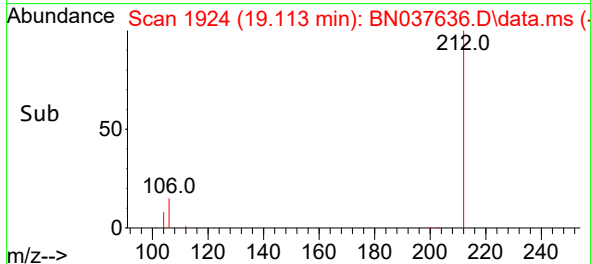
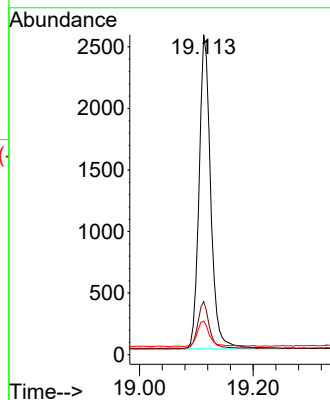
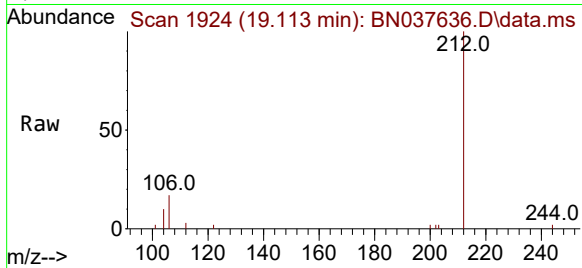




#27
Fluoranthene-d10
Concen: 0.317 ng
RT: 19.113 min Scan# 1913
Delta R.T. -0.009 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

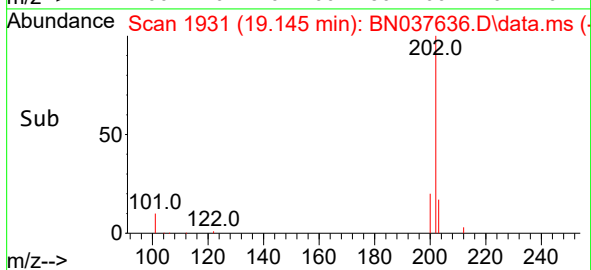
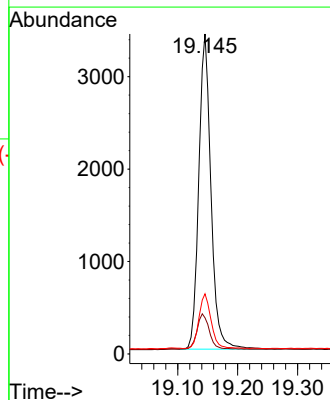
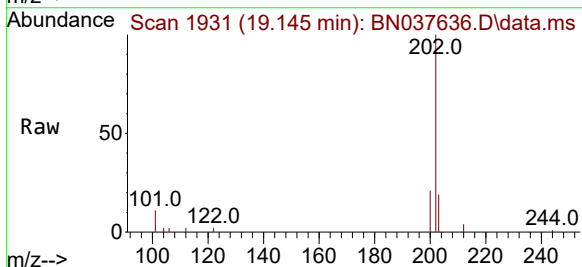
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

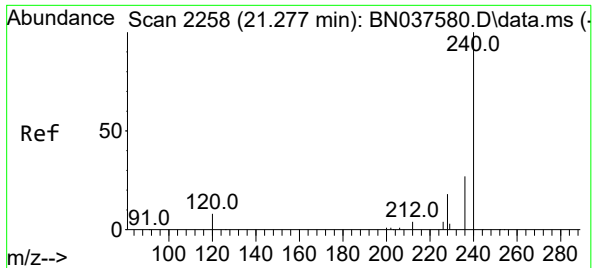
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.5	17.3
104	8.5	6.6	9.8



#28
Fluoranthene
Concen: 0.316 ng
RT: 19.145 min Scan# 1931
Delta R.T. -0.005 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.0	13.6
203	17.3	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

Instrument :

BNA_N

ClientSampleId :

PB169328BSD

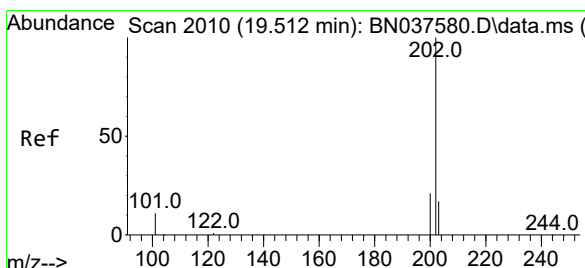
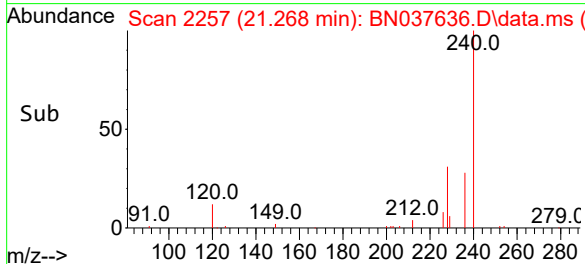
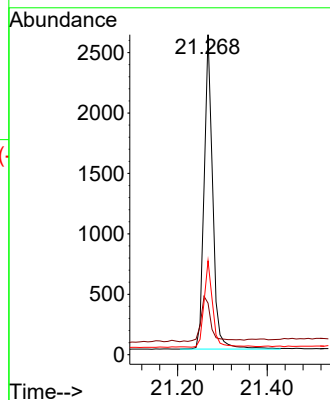
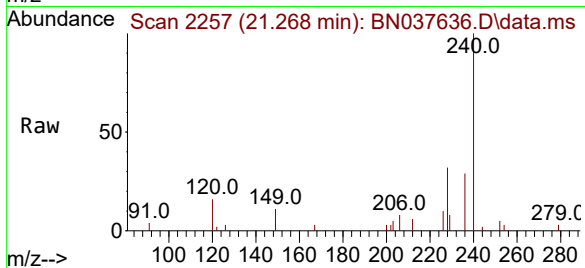
Tgt Ion:240 Resp: 3473

Ion Ratio Lower Upper

240 100

120 16.1 8.9 13.3#

236 29.4 22.6 33.8



#30

Pyrene

Concen: 0.363 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

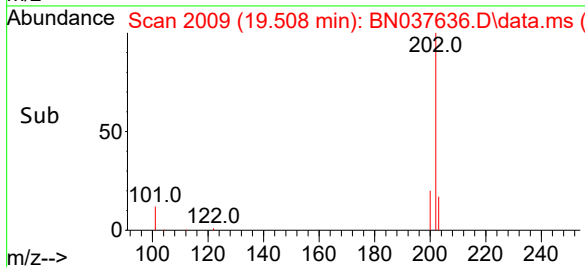
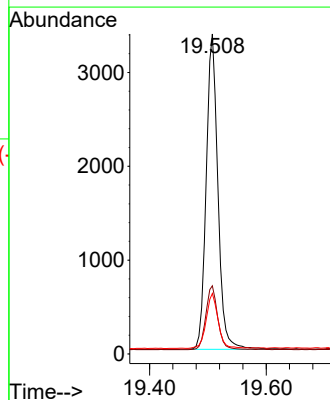
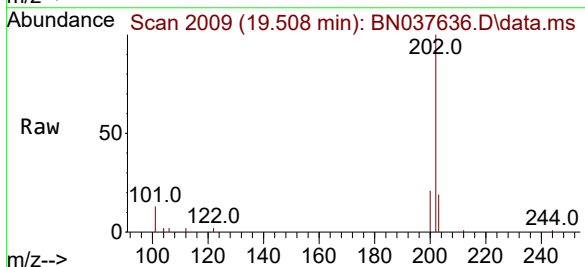
Tgt Ion:202 Resp: 4714

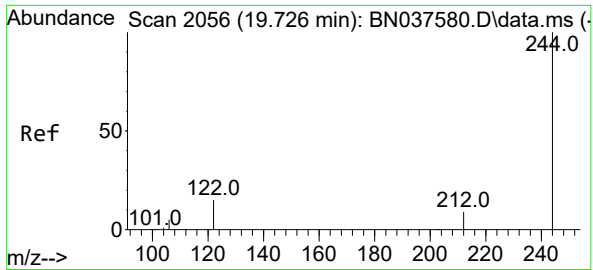
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.6 14.3 21.5

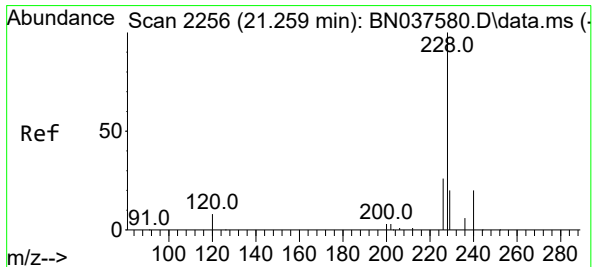
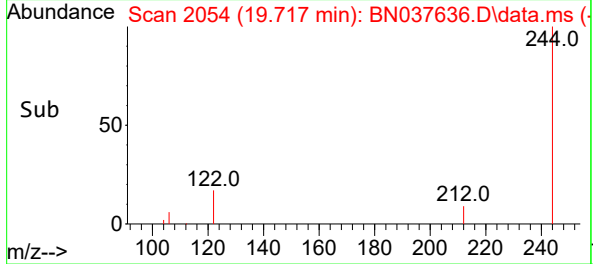
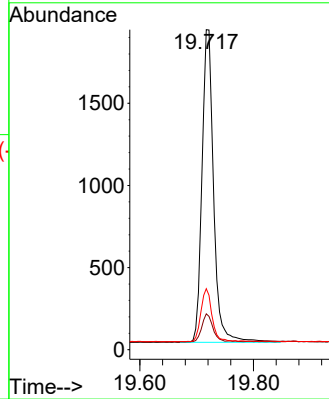
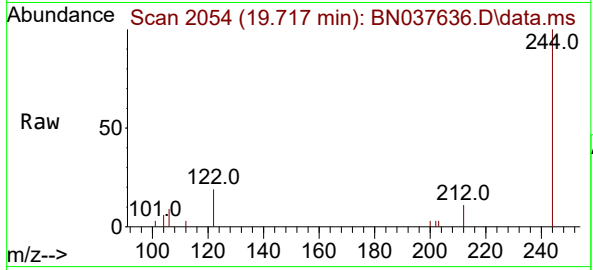




#31
Terphenyl-d14
Concen: 0.379 ng
RT: 19.717 min Scan# 2054
Delta R.T. -0.009 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

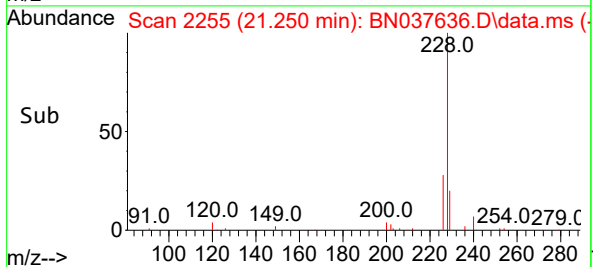
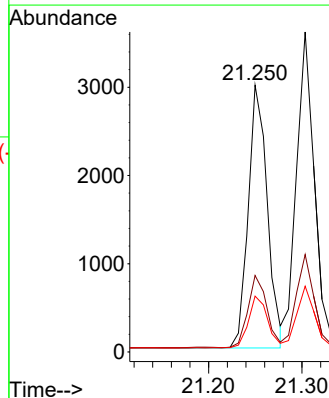
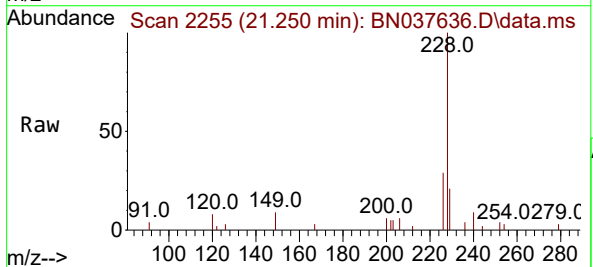
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

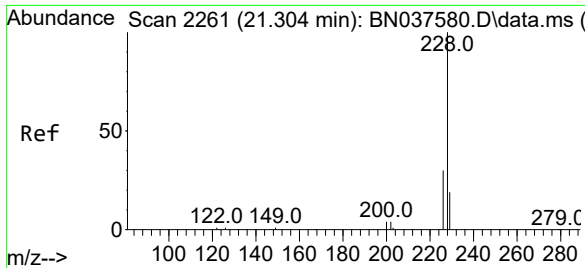
Tgt Ion:244 Resp: 2708
Ion Ratio Lower Upper
244 100
212 11.2 8.2 12.2
122 19.0 13.2 19.8



#32
Benzo(a)anthracene
Concen: 0.364 ng
RT: 21.250 min Scan# 2255
Delta R.T. -0.009 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:228 Resp: 4227
Ion Ratio Lower Upper
228 100
226 28.7 21.5 32.3
229 20.9 16.5 24.7





#33

Chrysene

Concen: 0.382 ng

RT: 21.304 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

Instrument :

BNA_N

ClientSampleId :

PB169328BSD

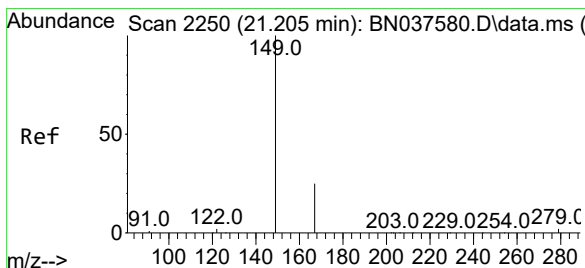
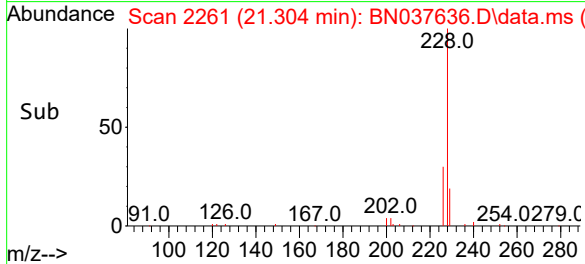
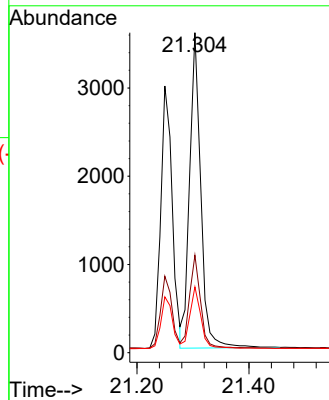
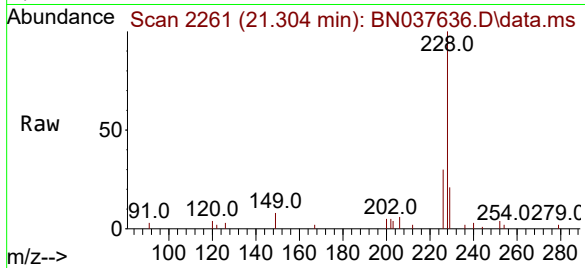
Tgt Ion:228 Resp: 4944

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

229 20.5 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.359 ng

RT: 21.196 min Scan# 2249

Delta R.T. -0.009 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

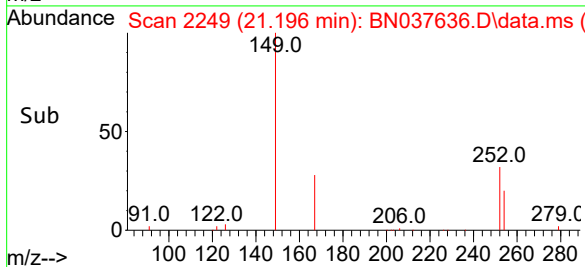
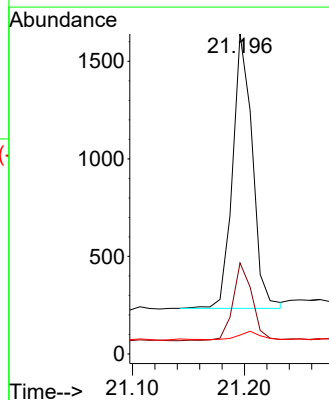
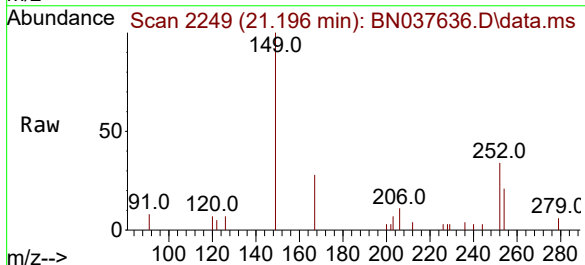
Tgt Ion:149 Resp: 1720

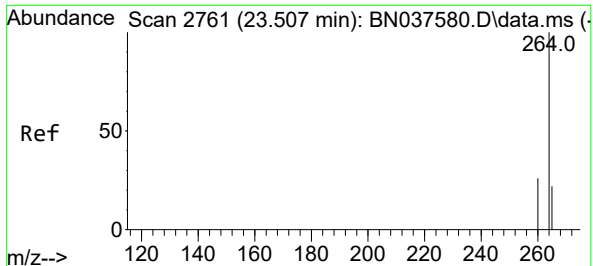
Ion Ratio Lower Upper

149 100

167 28.1 20.5 30.7

279 3.4 2.6 4.0

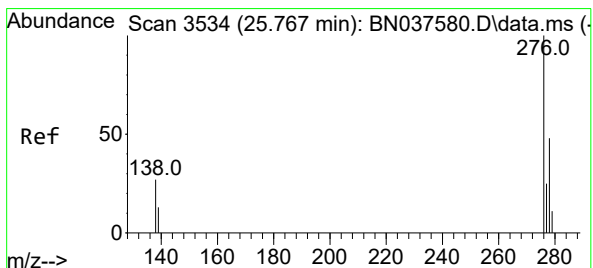
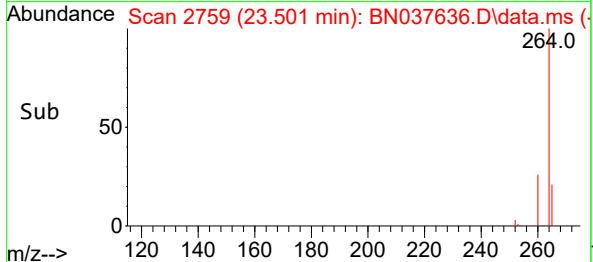
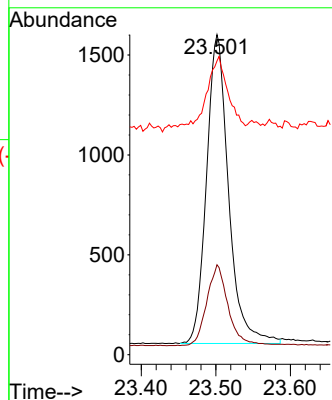
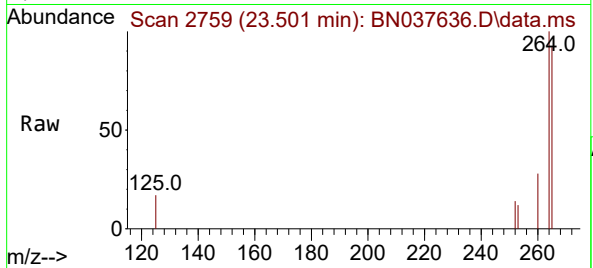




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.501 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

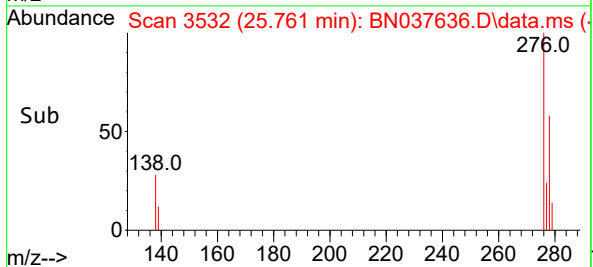
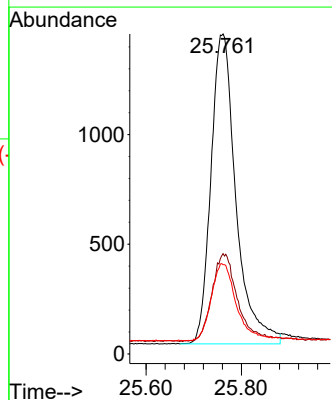
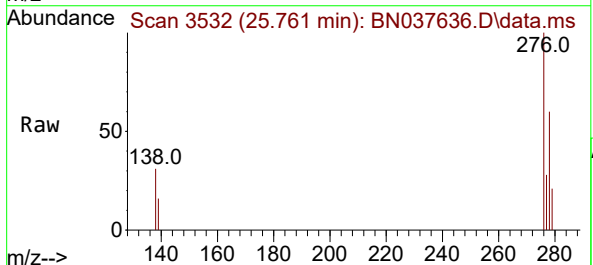
Instrument :
BNA_N
ClientSampleId :
PB169328BSD

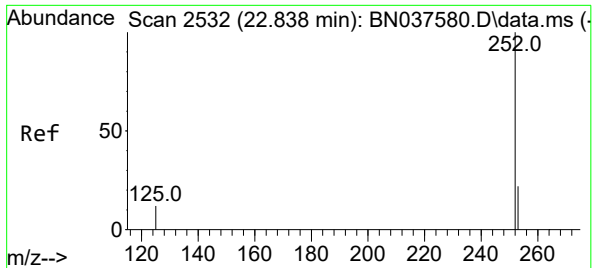
Tgt Ion:264 Resp: 3177
Ion Ratio Lower Upper
264 100
260 28.1 21.6 32.4
265 91.8 48.2 72.4#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.385 ng
RT: 25.761 min Scan# 3532
Delta R.T. -0.006 min
Lab File: BN037636.D
Acq: 20 Aug 2025 18:46

Tgt Ion:276 Resp: 5153
Ion Ratio Lower Upper
276 100
138 28.6 23.3 34.9
277 24.8 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.832 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

Instrument :

BNA_N

ClientSampleId :

PB169328BSD

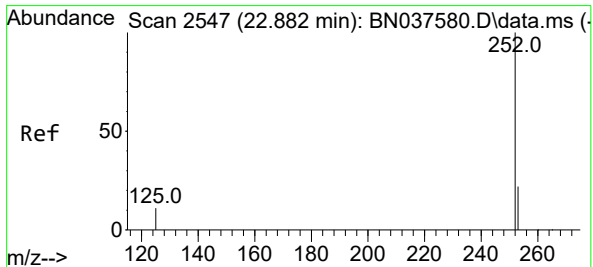
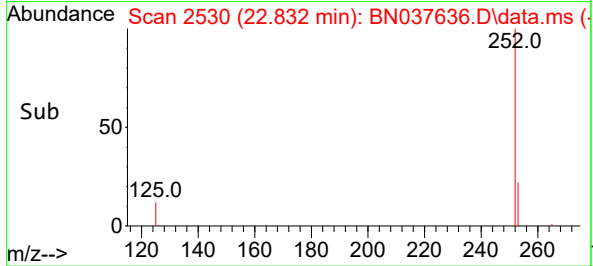
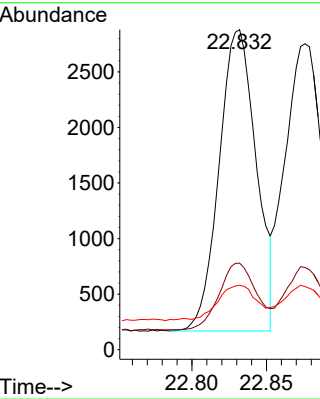
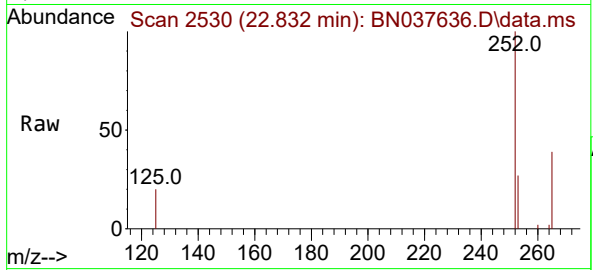
Tgt Ion:252 Resp: 4699

Ion Ratio Lower Upper

252 100

253 27.1 20.0 30.0

125 20.2 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.360 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

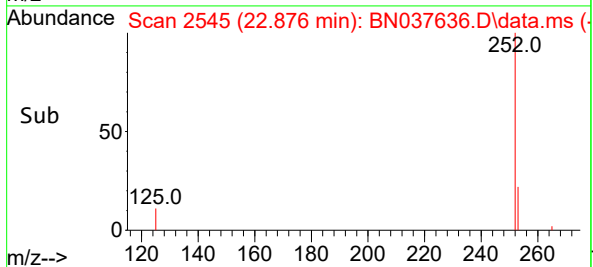
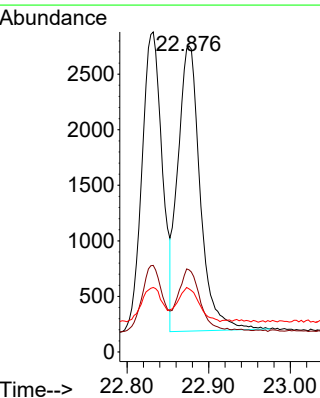
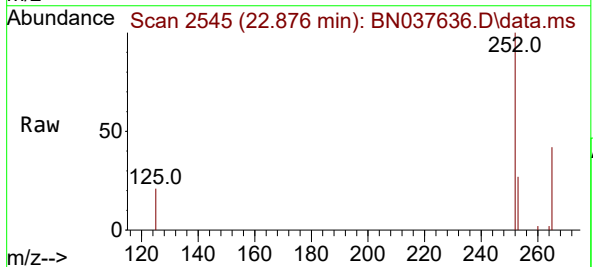
Tgt Ion:252 Resp: 4893

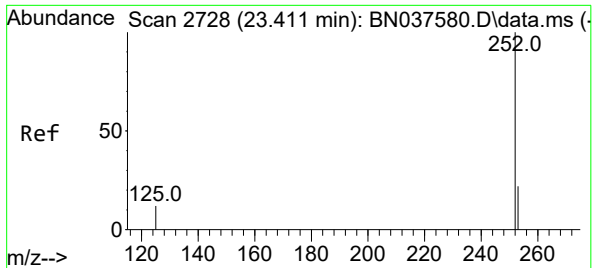
Ion Ratio Lower Upper

252 100

253 26.8 19.9 29.9

125 20.6 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.405 ng

RT: 23.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

Instrument :

BNA_N

ClientSampleId :

PB169328BSD

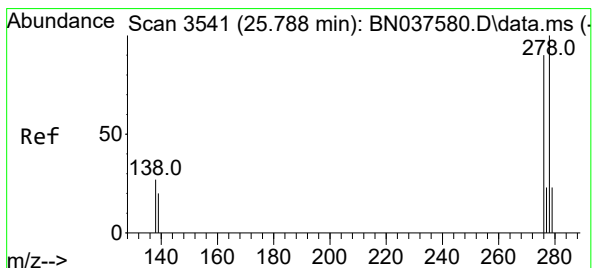
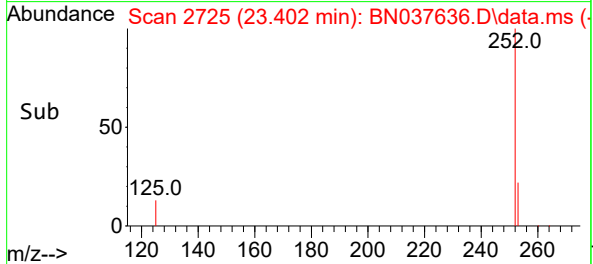
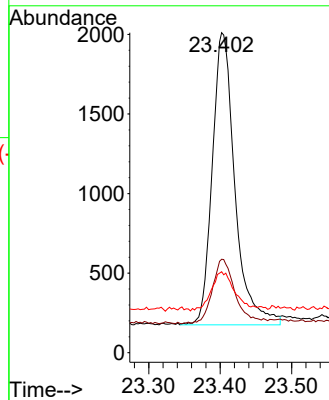
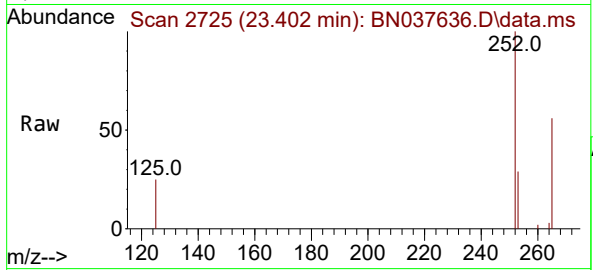
Tgt Ion:252 Resp: 4041

Ion Ratio Lower Upper

252 100

253 29.2 21.6 32.4

125 25.3 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.376 ng

RT: 25.773 min Scan# 3536

Delta R.T. -0.015 min

Lab File: BN037636.D

Acq: 20 Aug 2025 18:46

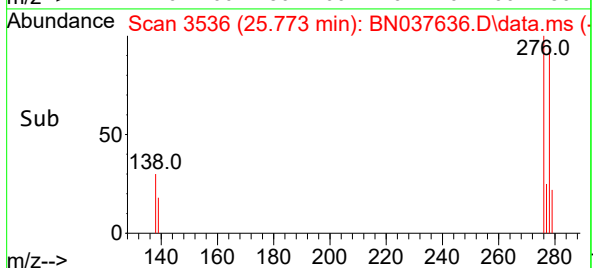
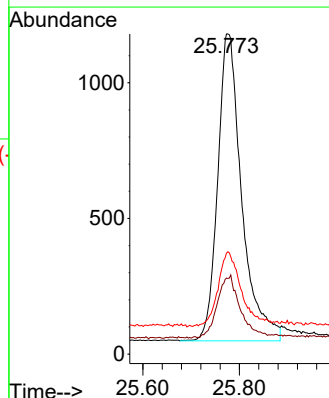
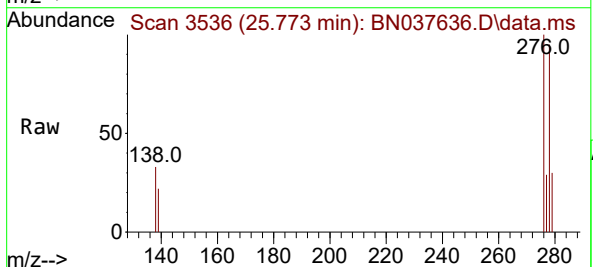
Tgt Ion:278 Resp: 3907

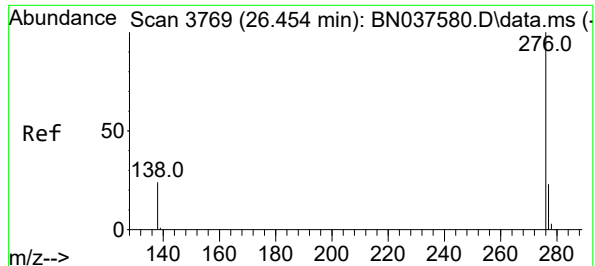
Ion Ratio Lower Upper

278 100

139 23.7 18.3 27.5

279 31.5 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.418 ng

RT: 26.446 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037636.D

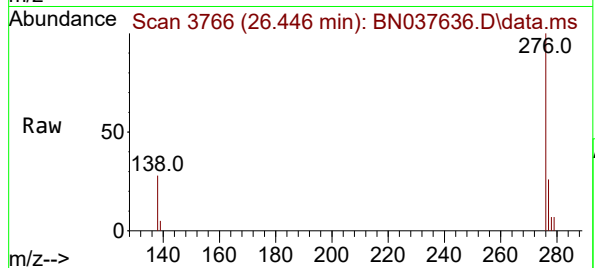
Acq: 20 Aug 2025 18:46

Instrument :

BNA_N

ClientSampleId :

PB169328BSD



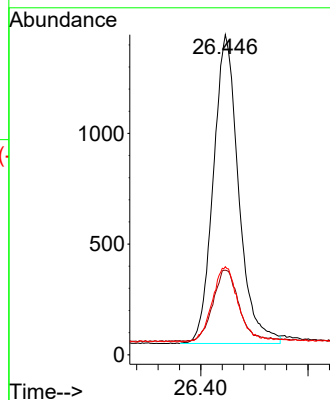
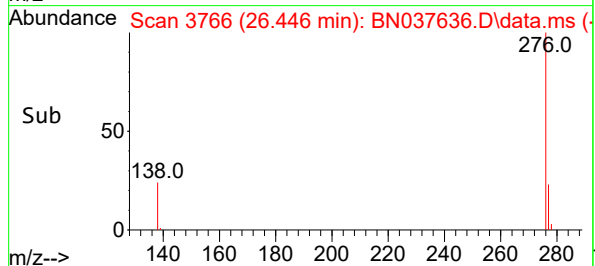
Tgt Ion:276 Resp: 4575

Ion Ratio Lower Upper

276 100

277 26.4 21.0 31.4

138 27.5 21.7 32.5





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

Manual Integration Report

Sequence:

BN081225

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason



Manual Integration Report

Sequence:	BN082025	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN081225

Review By	Rahul	Review On	8/13/2025 11:25:23 AM
Supervise By	Jagrut	Supervise On	8/13/2025 11:26:50 AM
SubDirectory	BN081225	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037576.D	12 Aug 2025 15:05	RC/JU	Ok
2	SSTDCCC0.4	BN037577.D	12 Aug 2025 15:49	RC/JU	Not Ok
3	SSTDICC0.1	BN037578.D	12 Aug 2025 16:26	RC/JU	Ok
4	SSTDICC0.2	BN037579.D	12 Aug 2025 17:03	RC/JU	Ok
5	SSTDICCC0.4	BN037580.D	12 Aug 2025 17:39	RC/JU	Ok
6	SSTDICC0.8	BN037581.D	12 Aug 2025 18:16	RC/JU	Ok
7	SSTDICC1.6	BN037582.D	12 Aug 2025 18:52	RC/JU	Ok
8	SSTDICC3.2	BN037583.D	12 Aug 2025 19:29	RC/JU	Ok
9	SSTDICC5.0	BN037584.D	12 Aug 2025 20:05	RC/JU	Ok
10	SSTDICV0.4	BN037585.D	12 Aug 2025 20:42	RC/JU	Ok
11	PB169094BL	BN037586.D	12 Aug 2025 21:55	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082025

Review By	Rahul	Review On	8/21/2025 3:03:33 PM
Supervise By	Jagrut	Supervise On	8/21/2025 5:57:59 PM
SubDirectory	BN082025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn081225
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6830,1ul/100ul sample		
ICV/I.BLK	SP6854		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037632.D	20 Aug 2025 16:18	RC/JU	Ok
2	SSTDCCC0.4	BN037633.D	20 Aug 2025 16:57	RC/JU	Ok
3	PB169328BL	BN037634.D	20 Aug 2025 17:33	RC/JU	Ok
4	PB169328BS	BN037635.D	20 Aug 2025 18:10	RC/JU	Ok
5	PB169328BSD	BN037636.D	20 Aug 2025 18:46	RC/JU	Ok
6	Q2885-01	BN037637.D	20 Aug 2025 19:22	RC/JU	Dilution
7	Q2885-02	BN037638.D	20 Aug 2025 19:58	RC/JU	Ok
8	Q2885-03	BN037639.D	20 Aug 2025 20:34	RC/JU	Ok
9	Q2886-02	BN037640.D	20 Aug 2025 21:10	RC/JU	Ok
10	SSTDCCC0.4	BN037641.D	20 Aug 2025 21:47	RC/JU	Ok
11	DFTPP	BN037642.D	21 Aug 2025 09:12	RC/JU	Ok
12	SSTDCCC0.4	BN037643.D	21 Aug 2025 09:51	RC/JU	Ok
13	PB169328BL	BN037644.D	21 Aug 2025 11:09	RC/JU	Not Ok
14	Q2885-01DL	BN037645.D	21 Aug 2025 11:45	RC/JU	Ok
15	SSTDCCC0.4	BN037646.D	21 Aug 2025 13:11	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN081225

Review By	Rahul	Review On	8/13/2025 11:25:23 AM
Supervise By	Jagrut	Supervise On	8/13/2025 11:26:50 AM
SubDirectory	BN081225	HP Acquire Method	BNA_N, 8270_HP Processing Method bn081225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037576.D	12 Aug 2025 15:05		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037577.D	12 Aug 2025 15:49	A Fresh Calibration is required	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037578.D	12 Aug 2025 16:26		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037579.D	12 Aug 2025 17:03		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037580.D	12 Aug 2025 17:39	Compound #20 kept on LR	RC/JU	Ok
6	SSTDICC0.8	SSTDICC0.8	BN037581.D	12 Aug 2025 18:16		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037582.D	12 Aug 2025 18:52		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037583.D	12 Aug 2025 19:29		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037584.D	12 Aug 2025 20:05	Comp #20,23,24 removed from 5ppm	RC/JU	Ok
10	SSTDICV0.4	ICVBN081225	BN037585.D	12 Aug 2025 20:42		RC/JU	Ok
11	PB169094BL	PB169094BL	BN037586.D	12 Aug 2025 21:55		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN082025

Review By	Rahul	Review On	8/21/2025 3:03:33 PM
Supervise By	Jagrut	Supervise On	8/21/2025 5:57:59 PM
SubDirectory	BN082025	HP Acquire Method	BNA_N, 8270_HP Processing Method bn081225

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848
CCC	SP6846
Internal Standard/PEM	SP6830, 1ul/100ul sample
ICV/I.BLK	SP6854
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037632.D	20 Aug 2025 16:18		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037633.D	20 Aug 2025 16:57		RC/JU	Ok
3	PB169328BL	PB169328BL	BN037634.D	20 Aug 2025 17:33		RC/JU	Ok
4	PB169328BS	PB169328BS	BN037635.D	20 Aug 2025 18:10		RC/JU	Ok
5	PB169328BSD	PB169328BSD	BN037636.D	20 Aug 2025 18:46		RC/JU	Ok
6	Q2885-01	RW5-SP100-20250814	BN037637.D	20 Aug 2025 19:22	Need 2X.	RC/JU	Dilution
7	Q2885-02	RW5-SP201-20250814	BN037638.D	20 Aug 2025 19:58		RC/JU	Ok
8	Q2885-03	RW5-SP303-20250814	BN037639.D	20 Aug 2025 20:34		RC/JU	Ok
9	Q2886-02	BP-TT182D-GW-20250	BN037640.D	20 Aug 2025 21:10		RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4EC	BN037641.D	20 Aug 2025 21:47		RC/JU	Ok
11	DFTPP	DFTPP	BN037642.D	21 Aug 2025 09:12		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN037643.D	21 Aug 2025 09:51		RC/JU	Ok
13	PB169328BL	PB169328BL	BN037644.D	21 Aug 2025 11:09	already analyzed	RC/JU	Not Ok
14	Q2885-01DL	RW5-SP100-20250814	BN037645.D	21 Aug 2025 11:45		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4EC	BN037646.D	21 Aug 2025 13:11		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix : Water

Wegh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,6,7

Extraction Start Date : 08/20/2025

Extraction Start Time : 09:05

Extraction End Date : 08/20/2025

Extraction End Time : 14:05

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6855
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3964
Baked Na2SO4	N/A	EP2632
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

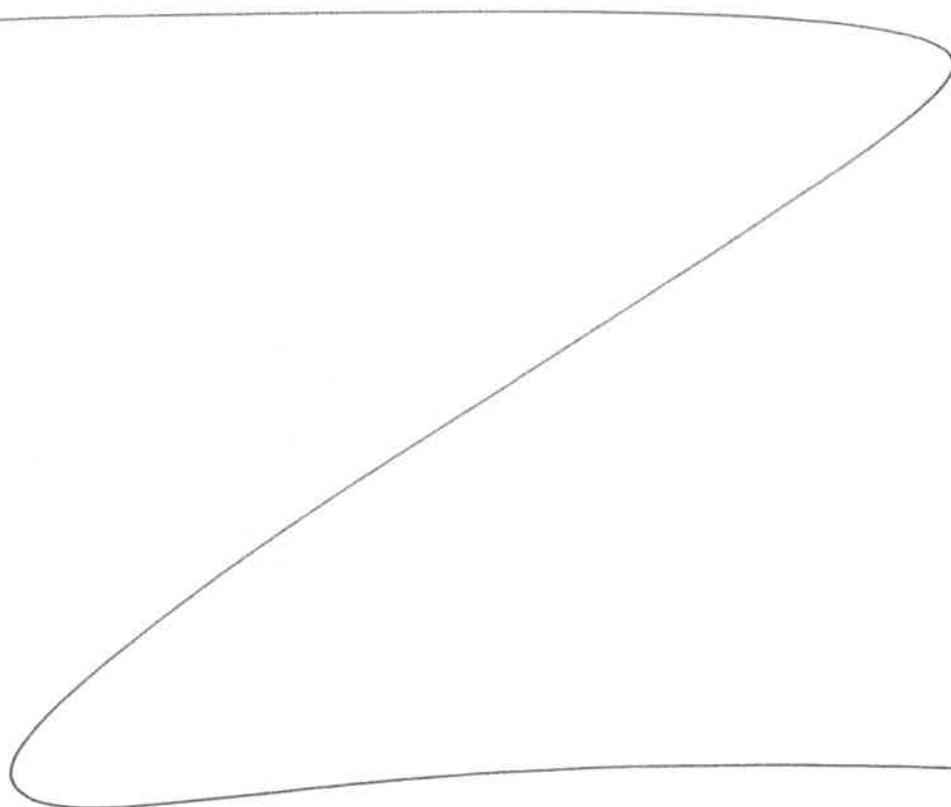
Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
8/20/25	RS (Ext 46)	JU / SVOC
14:10	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 08/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169328BL	SBLK328	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB169328BS	SLCS328	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
PB169328BS D	SLCSD328	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			3
Q2885-01	RW5-SP100-20250814	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1			4
Q2885-02	RW5-SP201-20250814	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			5
Q2885-03	RW5-SP303-20250814	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			6
Q2886-02	BP-TT182D-GW-20250814	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	D		7



Rs
8/20

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2885 WorkList ID : 191380 Department : Extraction Date : 08-20-2025 08:58:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2885-01	RW5-SP100-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J22	08/14/2025	8270-Modified
Q2885-02	RW5-SP201-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J22	08/14/2025	8270-Modified
Q2885-03	RW5-SP303-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J22	08/14/2025	8270-Modified
Q2886-02	BP-TT182D-GW-20250814	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	J13	08/14/2025	8270-Modified

Date/Time 8/20/25 9:00
 Raw Sample Received by: RS (Ext Lab)
 Raw Sample Relinquished by: OK SM

Date/Time 8/20/25 9:30
 Raw Sample Received by: OK SM
 Raw Sample Relinquished by: RS (Ext Lab)

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Prep Standard - Chemical Standard Summary

Order ID : Q2886
Test : SVOC-SIMGroup1
Prepbatch ID : PB169328,
Sequence ID/Qc Batch ID: BN082025,

Standard ID :
EP2609,EP2610,EP2632,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

Chemical ID :
1ul/100ul
sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3964,M6157,S10105,S 11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W 3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2632	08/11/2025	01/28/2026	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 08/11/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTTP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
06/25/2025								

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
06/25/2025								

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6853	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 + 0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6854	07/02/2025	09/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli
SOURCE FROM 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6855	07/30/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
FROM 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 / RUPESH	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25C1262005	04/16/2026	08/14/2025 / RUPESH	03/06/2025 / RUPESH	E3964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12498

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/30/2025	06/04/2025 / Jagrut	12/11/2024 / anahy	S12986

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Z-112090 **Lot No.:** 440246 **Storage:** $\leq -10^{\circ}\text{C}$ **Solvent:** Methylene Chloride **Exp. Date:** 2/16/2026 **Description:** CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on
02/08/23

b1
CG

S 11071
to
S 11075

Catalog No. : 31853 Lot No.: A0187043
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : July 31, 2027 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	1,4-Dioxane CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 44.5129 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

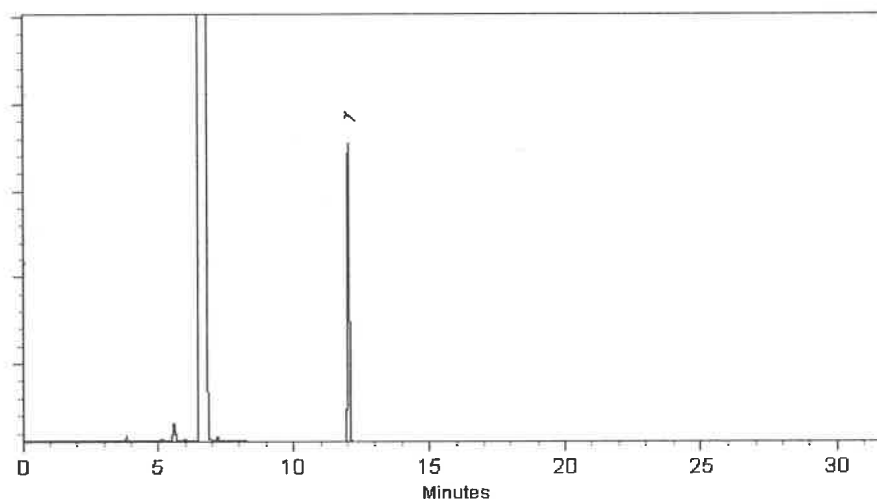
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

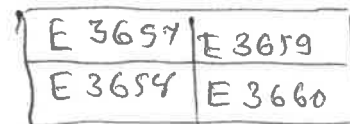
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.





**PRODUCTOS
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MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 67 67
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER:	6399	RELEASE DATE:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

J. Croak

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH 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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_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 ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01%

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25C1262005
Manufactured Date: 2025-01-15
Expiration Date: 2026-04-16
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Received on .

E 3964

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities – Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities – Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0200655
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11795
↓
S11808 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

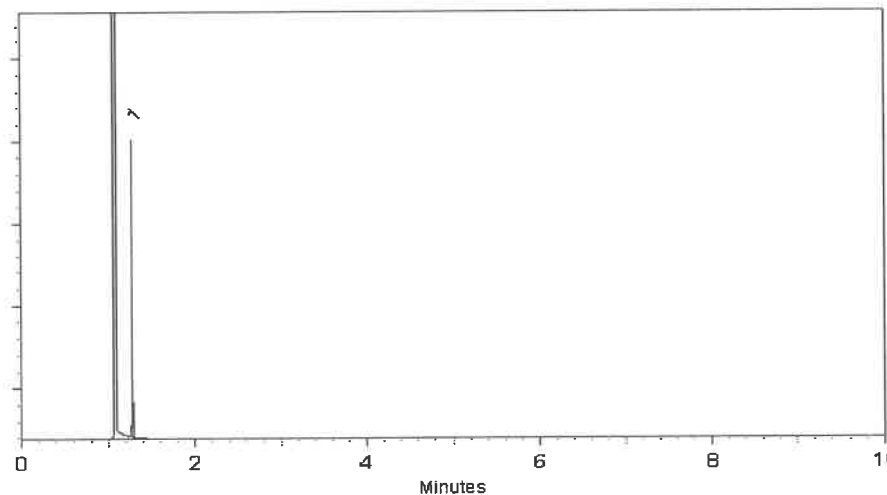
FID

Split Vent:

100 mL/min.

Inj. Vol

1µL



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

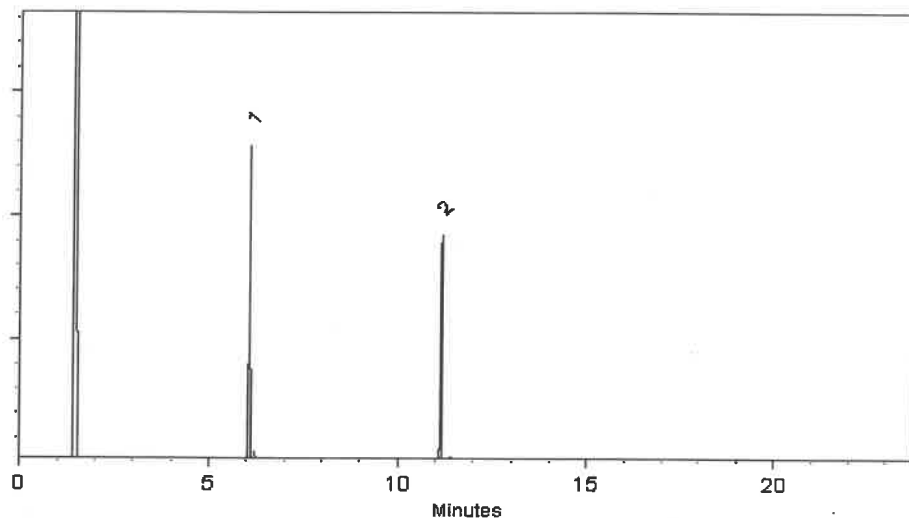
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

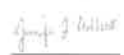


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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Date Received: _____

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

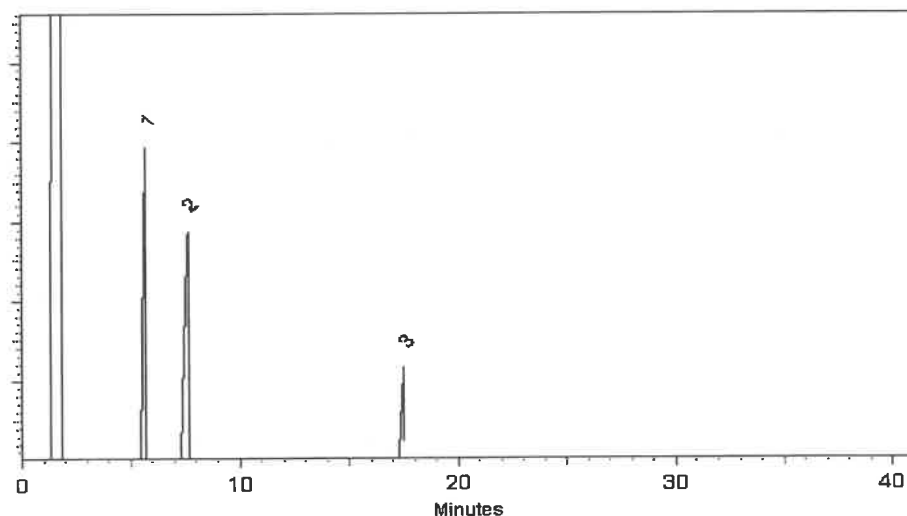
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope B. 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
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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:

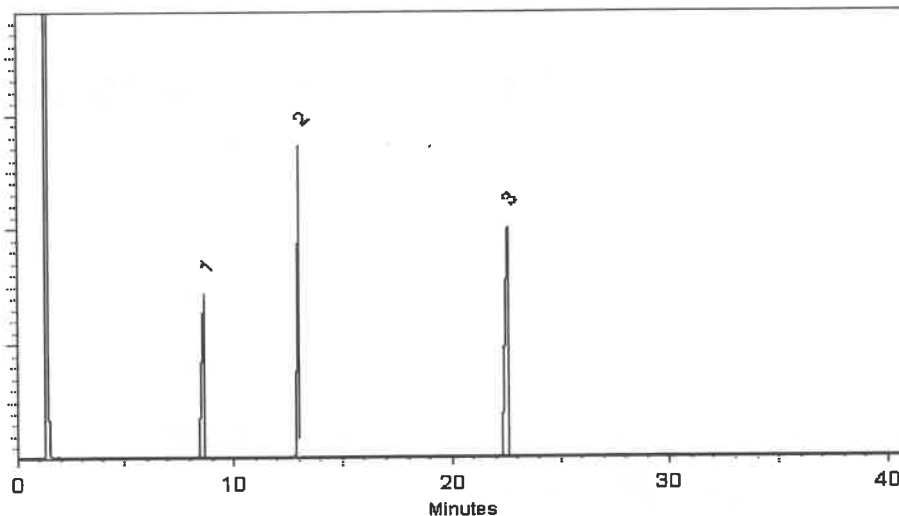
FID

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

Date Received: _____

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Rev 0

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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. : 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
↓
S12579 } RC
8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

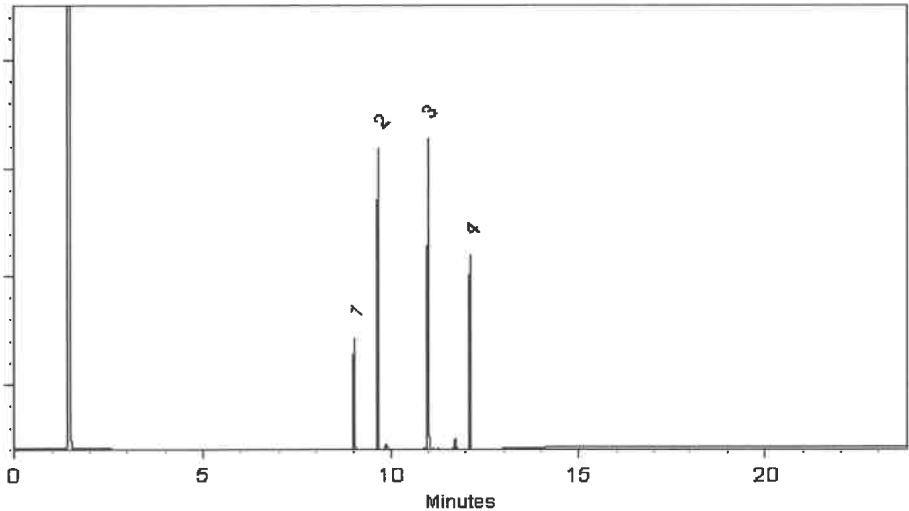
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

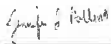
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline Blvd
Santa Rosa, CA 95403

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(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	≤ -10 °C	Methylene Chloride	1/2/2030	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 } AC
↓
513061 } 1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Melissa Workoff
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

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CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: <u>Q 2886</u>	
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: TT182D		ADDRESS:	
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:	
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetrattech.com		ATTENTION: PHONE:	
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148			
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		ANALYSIS	
FAX: _____ 10 _____ DAYS* HARD COPY: _____ 10 _____ DAYS* EDD _____ 10 _____ DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____		VOC(SW846-3260E) _____ 1,4 Dioxane (8270 SIM) _____ 1 2 3 4 5 6 7 8 9	
				PRESERVATIVES	
CHEMTECH SAMPLE ID		PROJECT SAMPLE IDENTIFICATION		SAMPLE MATRIX	
		SAMPLE TYPE		SAMPLE COLLECTION	
		COMP GRAB		DATE TIME	
		# of Bottles		A	
				1 2 3 4 5 6 7 8 9	
				COMMENTS	
				<-- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other	
1.		BP-TT182D-TB-20250814		QA	
2.		BP-TT182D-GW-20250814		AQ	
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY	
1. <u>Hand Delivered</u>		8/14/25 1500		1. _____	
RELINQUISHED BY		DATE/TIME		RECEIVED BY	
2. <u>FedEx</u>		8/15/25 1045		2. _____	
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY	
3. _____				3. _____	
Page <u>1</u> of <u>1</u>				SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight	
				Shipment Complete ☐ YES ☐ NO	
WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY					

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2886	TETR06	Order Date : 8/15/2025 11:08:00 AM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : NWIRP Bethpage 112G080	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 8/15/2025 10:45:00 AM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2886-01	BP-TT182D-TB- 2025814 20250814	Water	08/14/2025	09:00					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	
Q2886-02	BP-TT182D-GW- 2025814 20250814	Water	08/14/2025	13:20					
					VOC-TCLVOA-10		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :


8/15/25 1200

Received By :

Date / Time :


8/15/25 12:00 *YH 4*

Storage Area : VOA Refridgerator Room