

Cover Page

Order ID : Q2377

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q2377-01
Q2377-02
Q2377-03

Client Sample Number

PW-B6-L66-061925
PW-B6-L66-061925-SIM
TB01-061925

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: 6/27/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site D3868221

Project # N/A

Order ID # Q2377

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

3 Water samples were received on 06/19/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1, VOC-SIM and VOCMS Group3. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

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

The Initial Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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

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.



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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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

ORDER ID: Q2377

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 .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples. The Blank Spike Duplicate met requirements for all samples.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

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

		NA	NO	YES
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 Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
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 #: Q2377

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/27/2025



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LAB CHRONICLE

OrderID:	Q2377	OrderDate:	6/20/2025 11:23:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2377-01	PW-B6-L66-061925	Water	SVOC-SIMGroup1	8270-Modified	06/19/25	06/20/25	06/20/25	06/19/25



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Hit Summary Sheet SW-846

SDG No.: Q2377
Client: JACOBS Engineering Group, Inc.

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



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2377

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168563BL	PB168563BL	2-Methylnaphthalene-d10	0.4	0.32	81		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.37	93		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.30	75		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.33	81		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.37	93		30 (54)	130 (175)
PB168563BS	PB168563BS	2-Methylnaphthalene-d10	0.4	0.49	123		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.35	86		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.37	92		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.39	97		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.39	98		30 (54)	130 (175)
PB168563BSD	PB168563BSD	2-Methylnaphthalene-d10	0.4	0.39	97		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.35	86		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.39	97		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.40	99		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.38	94		30 (54)	130 (175)
Q2377-01	PW-B6-L66-061925	2-Methylnaphthalene-d10	0.4	0.33	83		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.38	94		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.31	77		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.35	88		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.42	105		30 (54)	130 (175)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2377

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified **DataFile:** BN037363.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168563BS	1,4-Dioxane	0.4	0.32	ug/L	80				20 (65)	160 (116)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2377

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified DataFile: BN037364.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168563BSD	1,4-Dioxane	0.4	0.30	ug/L	75	6			20 (65)	160 (116)	20 (27)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168563BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q2377

SAS No.: Q2377 SDG NO.: Q2377

Lab File ID: BN037361.D

Lab Sample ID: PB168563BL

Instrument ID: BNA_N

Date Extracted: 06/20/2025

Matrix: (soil/water) Water

Date Analyzed: 06/20/2025

Level: (low/med) LOW

Time Analyzed: 22:16

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168563BS	PB168563BS	BN037363.D	06/20/2025
PW-B6-L66-061925	Q2377-01	BN037362.D	06/20/2025
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: JAC005Lab Code: CHEMSAS No.: Q2377 SDG NO.: Q2377Lab File ID: BN037351.DDFTPP Injection Date: 06/20/2025Instrument ID: BNA_NDFTPP Injection Time: 15:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.7) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	85.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (20) 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	BN037353.D	06/20/2025	16:51
SSTDICC0.2	SSTDICC0.2	BN037354.D	06/20/2025	17:27
SSTDICCC0.4	SSTDICCC0.4	BN037355.D	06/20/2025	18:03
SSTDICC0.8	SSTDICC0.8	BN037356.D	06/20/2025	18:39
SSTDICC1.6	SSTDICC1.6	BN037357.D	06/20/2025	19:15
SSTDICC3.2	SSTDICC3.2	BN037358.D	06/20/2025	19:51
SSTDICC5.0	SSTDICC5.0	BN037359.D	06/20/2025	20:27
PB168563BL	PB168563BL	BN037361.D	06/20/2025	22:16
PW-B6-L66-061925	Q2377-01	BN037362.D	06/20/2025	22:52
PB168563BS	PB168563BS	BN037363.D	06/20/2025	23:28
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025	00:04

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG NO.: Q2377

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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	1912	7.568	4157	10.34	2811	14.21
UPPER LIMIT	3824	8.068	8314	10.84	5622	14.713
LOWER LIMIT	956	7.068	2078.5	9.84	1405.5	13.713
EPA SAMPLE NO.						
01 PB168563BL	1968	7.57	4045	10.35	2736	14.22
02 PB168563BS	1960	7.57	4204	10.34	2586	14.21
03 PB168563BSD	1885	7.57	4095	10.34	2623	14.21
04 PW-B6-L66-061925	1844	7.57	4234	10.35	2932	14.21

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

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG NO.: Q2377

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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	5776	16.971	4813	21.171	4943	23.354
UPPER LIMIT	11552	17.471	9626	21.671	9886	23.854
LOWER LIMIT	2888	16.471	2406.5	20.671	2471.5	22.854
EPA SAMPLE NO.						
01 PB168563BL	4864	16.98	4288	21.17	3457	23.36
02 PB168563BS	4830	16.97	3875	21.17	2749	23.35
03 PB168563BSD	5035	16.97	4193	21.16	4470	23.35
04 PW-B6-L66-061925	6082	16.97	5238	21.16	5349	23.35

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/19/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/19/25
Client Sample ID:	PW-B6-L66-061925	SDG No.:	Q2377
Lab Sample ID:	Q2377-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 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
BN037362.D	1	06/20/25 12:03	06/20/25 22:52	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.33		30 (20) - 150 (139)	83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 (54) - 150 (157)	94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		30 (27) - 130 (154)	77%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (30) - 130 (155)	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		30 (54) - 130 (175)	105%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1840	7.568			
1146-65-2	Naphthalene-d8	4230	10.351			
15067-26-2	Acenaphthene-d10	2930	14.213			
1517-22-2	Phenanthrene-d10	6080	16.971			
1719-03-5	Chrysene-d12	5240	21.162			
1520-96-3	Perylene-d12	5350	23.348			

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\BN062125\
 Data File : BN037362.D
 Acq On : 20 Jun 2025 22:52
 Operator : RC/JU
 Sample : Q2377-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PW-B6-L66-061925

Quant Time: Jun 20 23:51:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

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

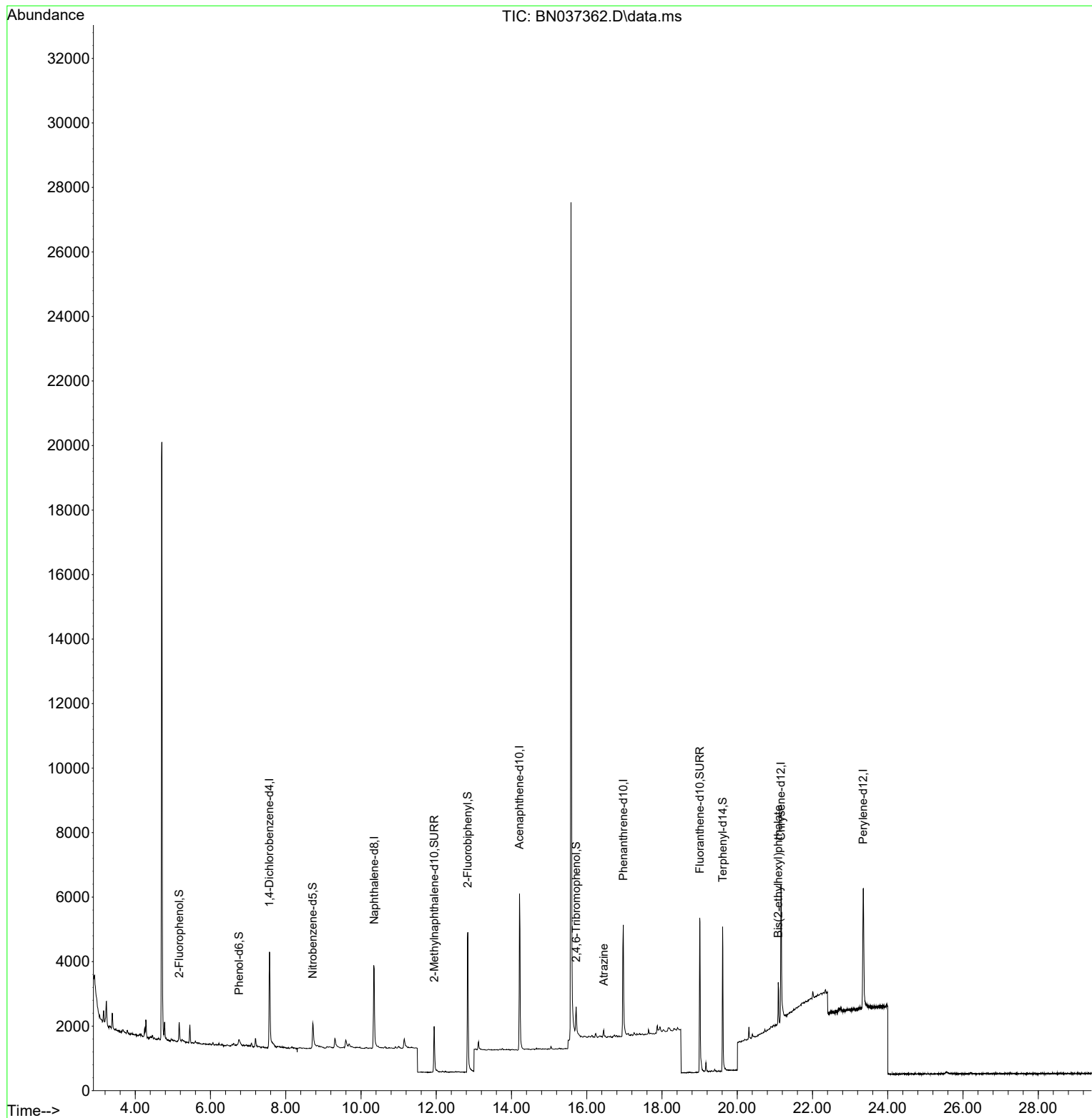
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1844	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	4234	0.400	ng	# 0.01
13) Acenaphthene-d10	14.213	164	2932	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	6082	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	5238	0.400	ng	0.00
35) Perylene-d12	23.348	264	5349	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	526	0.143	ng	0.00
5) Phenol-d6	6.759	99	262	0.069	ng	0.00
8) Nitrobenzene-d5	8.717	82	1049	0.307	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2285	0.333	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	628	0.365	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4543	0.353	ng	0.00
27) Fluoranthene-d10	19.003	212	6541	0.375	ng	0.00
31) Terphenyl-d14	19.612	244	5026	0.421	ng	0.00
Target Compounds						
23) Atrazine	16.450	200	219	0.063	ng	# 91
34) Bis(2-ethylhexyl)phtha...	21.090	149	1173	0.166	ng	99

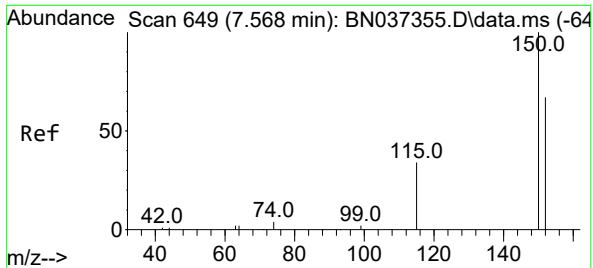
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037362.D
Acq On : 20 Jun 2025 22:52
Operator : RC/JU
Sample : Q2377-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

Quant Time: Jun 20 23:51:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

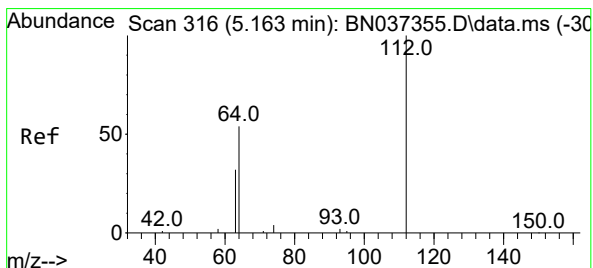
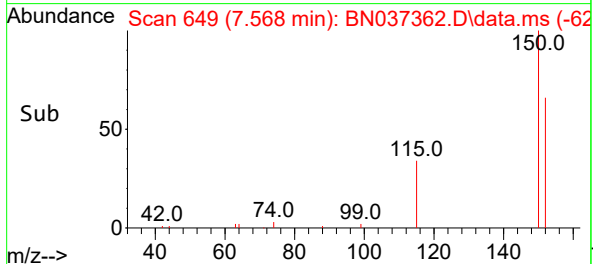
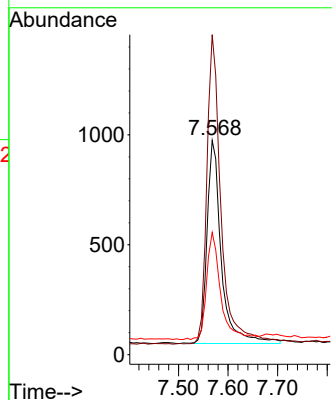
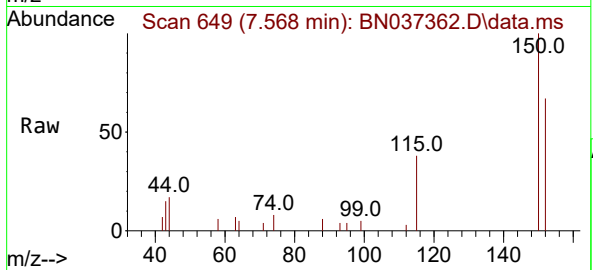




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

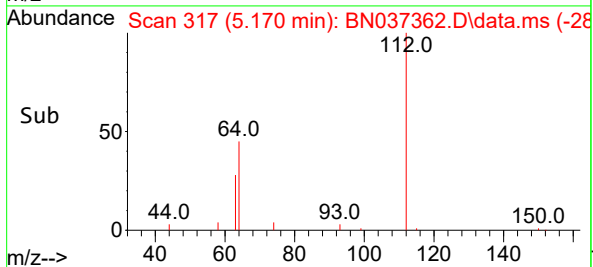
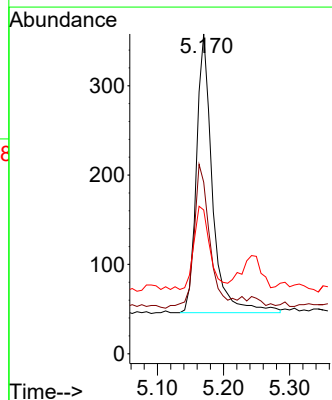
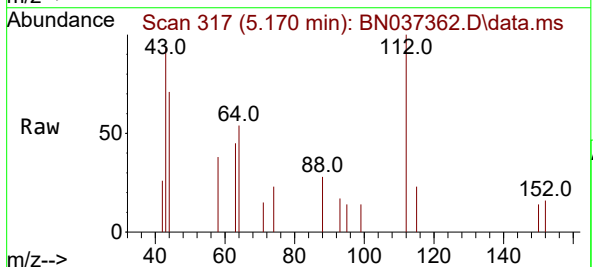
Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

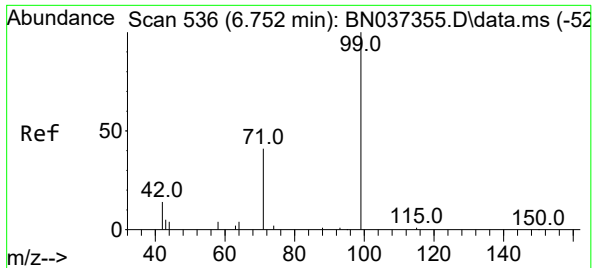
Tgt Ion:152 Resp: 1844
Ion Ratio Lower Upper
152 100
150 149.3 112.7 169.1
115 57.0 45.9 68.9



#4
2-Fluorophenol
Concen: 0.143 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

Tgt Ion:112 Resp: 526
Ion Ratio Lower Upper
112 100
64 51.5 38.7 58.1
63 31.0 26.4 39.6

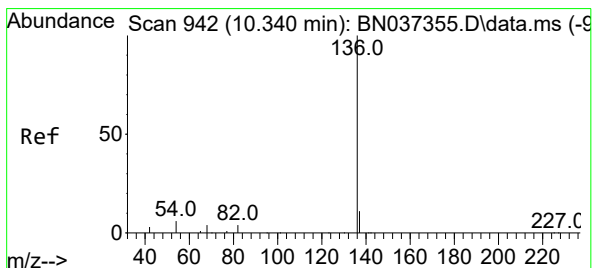
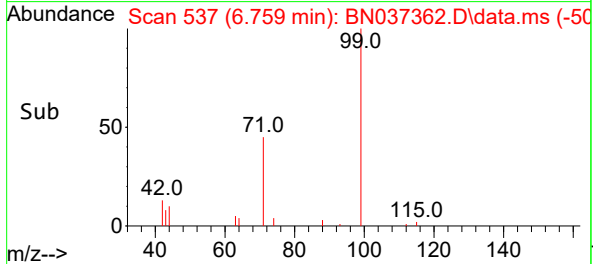
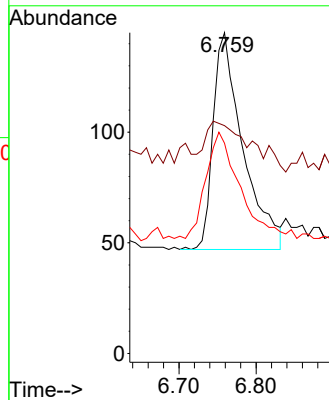
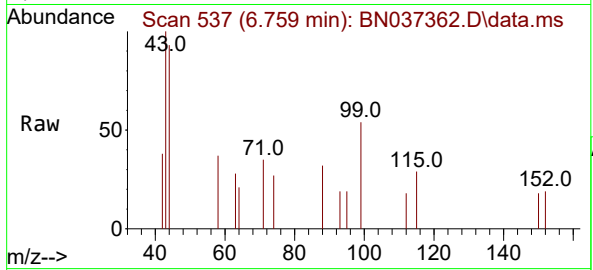




#5
Phenol-d6
Concen: 0.069 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

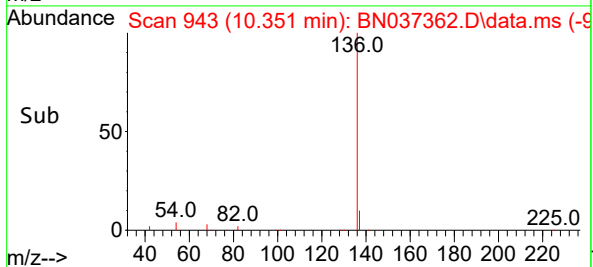
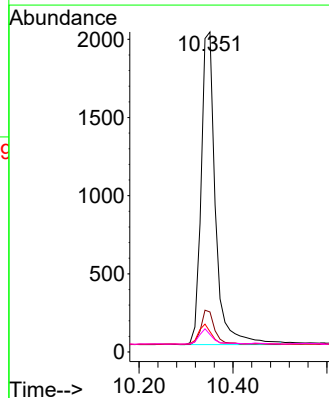
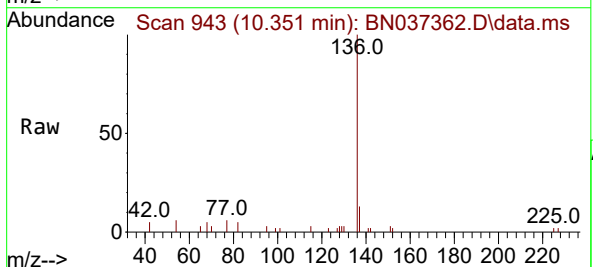
Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

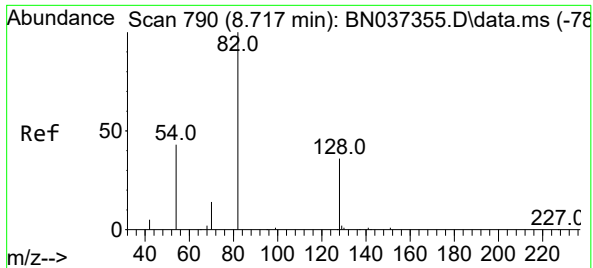
Tgt Ion: 99 Resp: 262
Ion Ratio Lower Upper
99 100
42 35.1 19.8 29.8#
71 56.5 42.6 64.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.011 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

Tgt Ion: 136 Resp: 4234
Ion Ratio Lower Upper
136 100
137 12.5 12.2 18.2
54 6.4 8.8 13.2#
68 5.5 7.0 10.4#

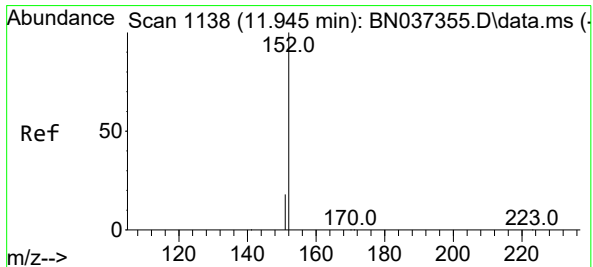
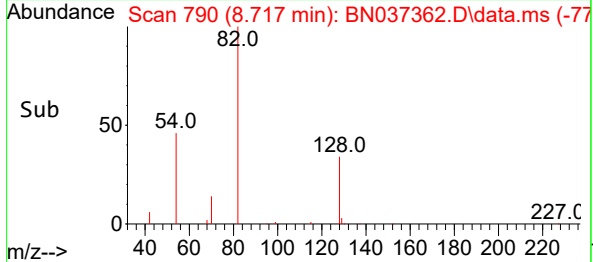
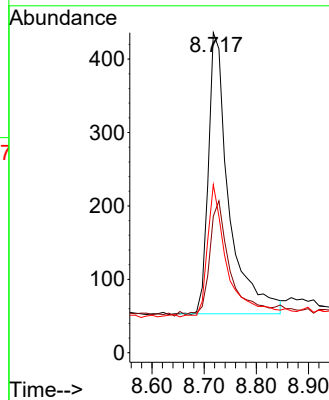
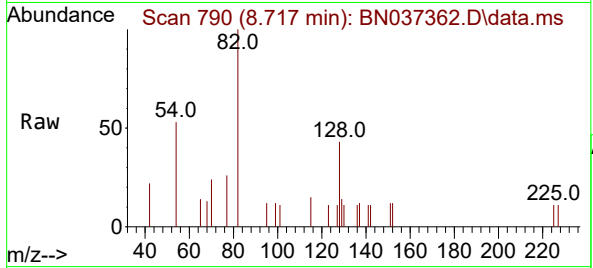




#8
Nitrobenzene-d5
Concen: 0.307 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

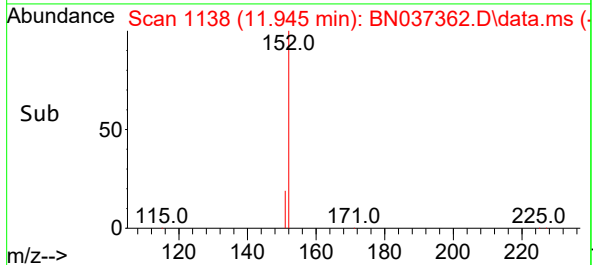
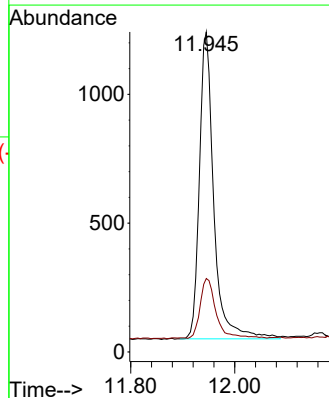
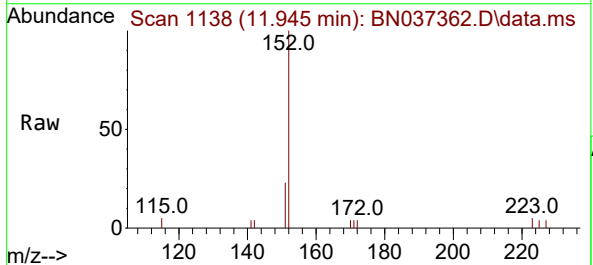
Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

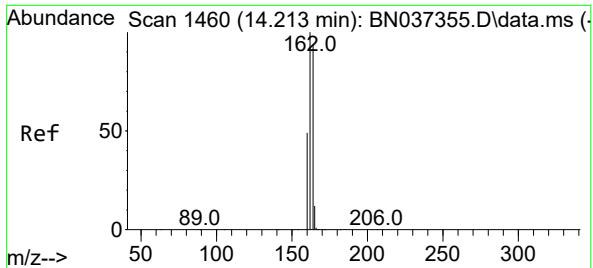
Tgt Ion	82	Resp:	1049
Ion	Ratio	Lower	Upper
82	100		
128	42.7	42.5	63.7
54	52.5	43.2	64.8



#11
2-Methylnaphthalene-d10
Concen: 0.333 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

Tgt Ion	152	Resp:	2285
Ion	Ratio	Lower	Upper
152	100		
151	21.6	17.4	26.0

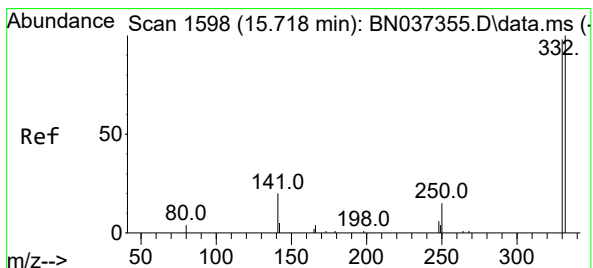
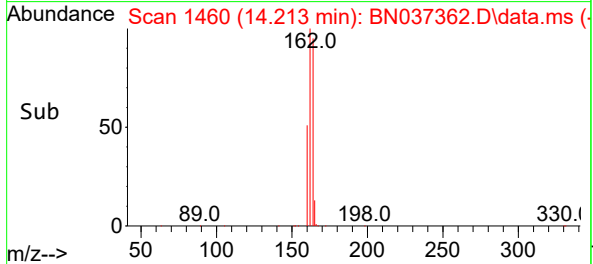
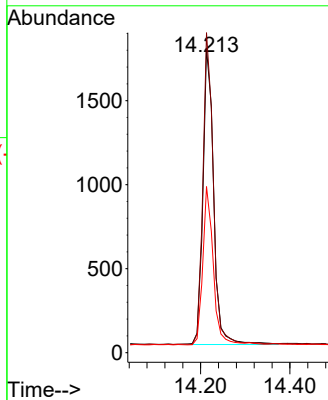
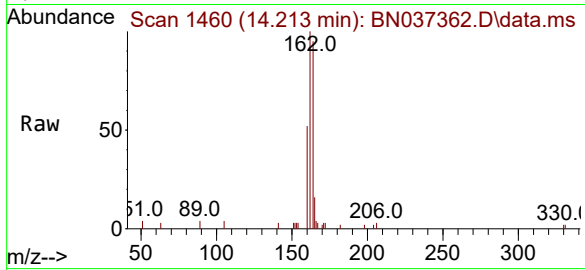




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

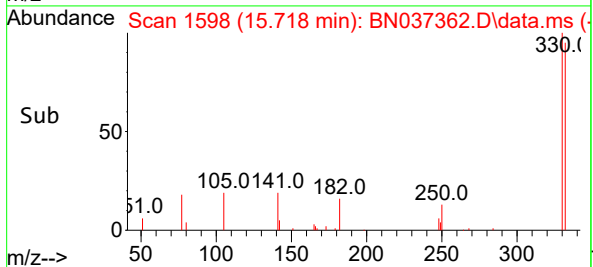
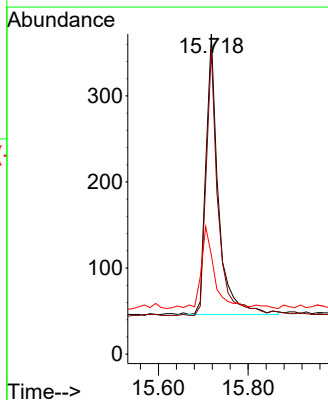
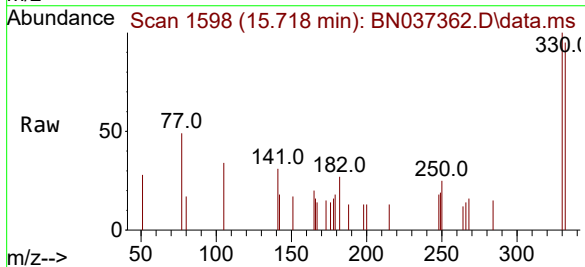
Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

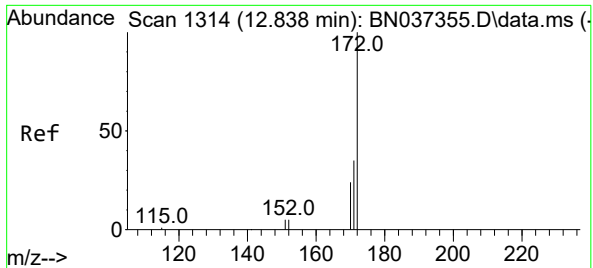
Tgt Ion:164 Resp: 2932
Ion Ratio Lower Upper
164 100
162 105.2 81.5 122.3
160 54.6 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.365 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

Tgt Ion:330 Resp: 628
Ion Ratio Lower Upper
330 100
332 91.2 78.4 117.6
141 31.4 24.4 36.6

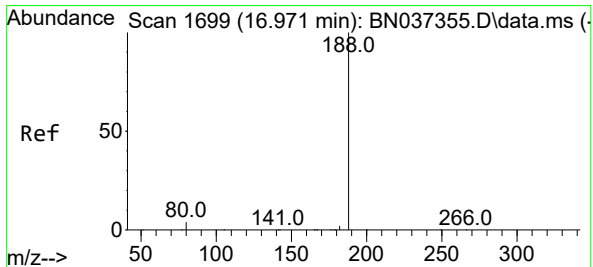
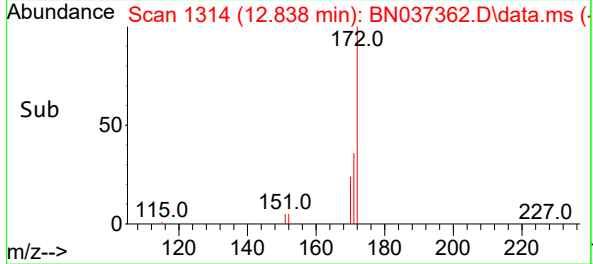
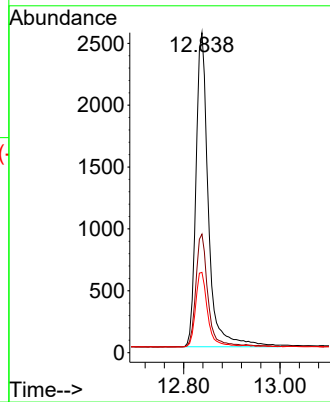
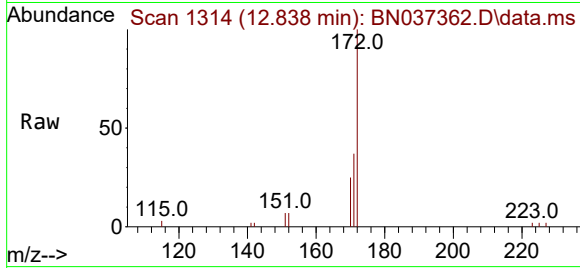




#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.838 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

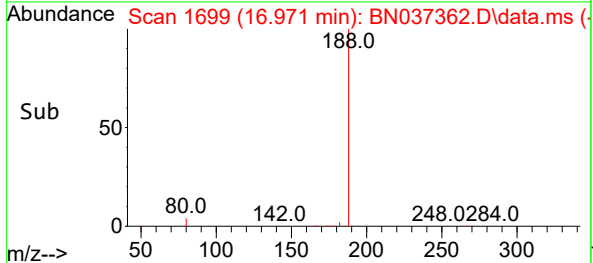
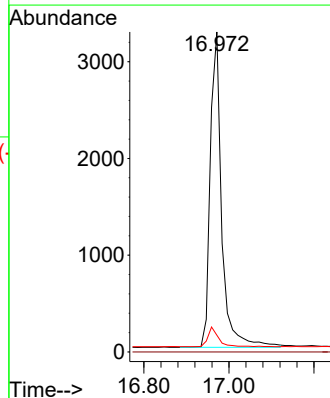
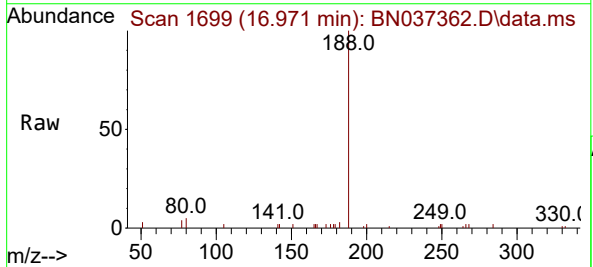
Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

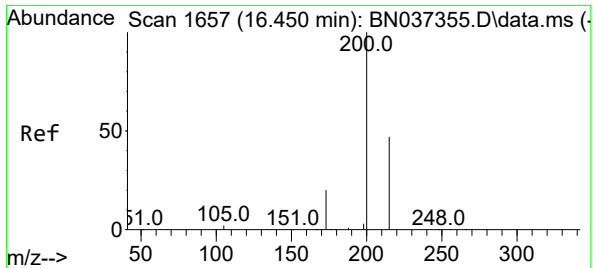
Tgt Ion:	172	Resp:	4543
Ion	Ratio	Lower	Upper
172	100		
171	37.0	30.8	46.2
170	25.1	21.9	32.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

Tgt Ion:	188	Resp:	6082
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.3	6.2	9.2#

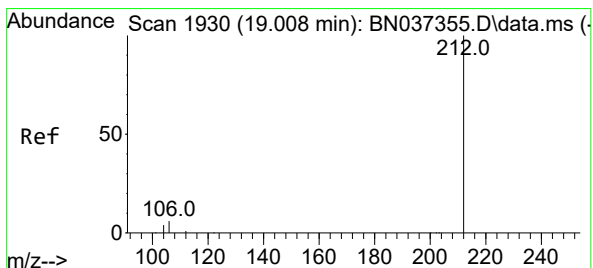
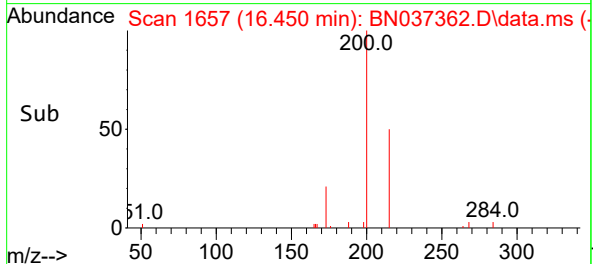
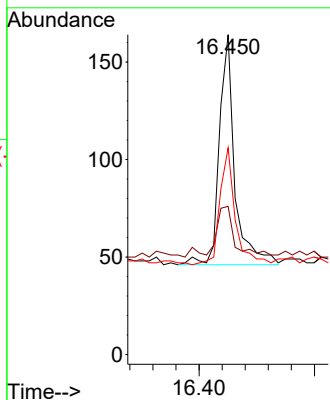
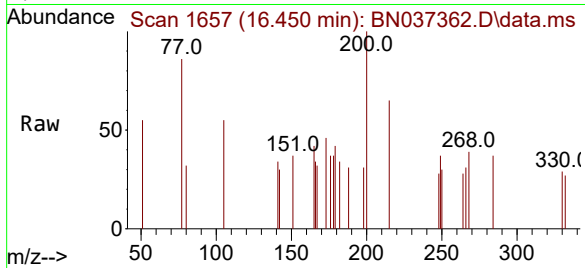




#23
Atrazine
Concen: 0.063 ng
RT: 16.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

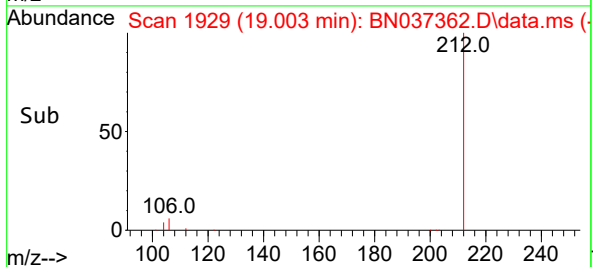
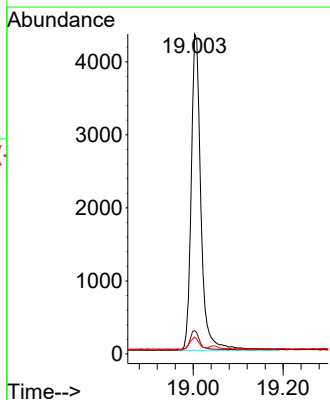
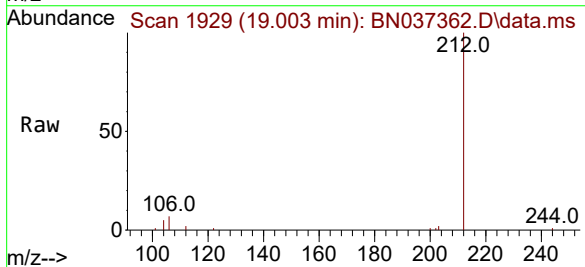
Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

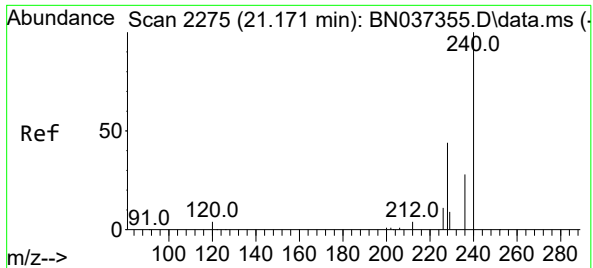
Tgt Ion:200 Resp: 219
Ion Ratio Lower Upper
200 100
173 46.3 29.2 43.8#
215 64.6 48.8 73.2



#27
Fluoranthene-d10
Concen: 0.375 ng
RT: 19.003 min Scan# 1929
Delta R.T. -0.005 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

Tgt Ion:212 Resp: 6541
Ion Ratio Lower Upper
212 100
106 6.0 3.0 4.4#
104 3.5 2.0 3.0#





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037362.D

Acq: 20 Jun 2025 22:52

Instrument :

BNA_N

ClientSampleId :

PW-B6-L66-061925

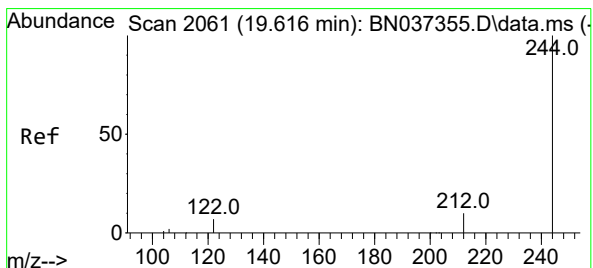
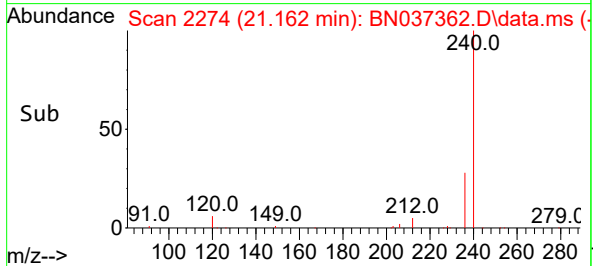
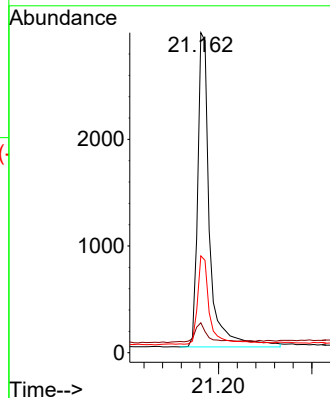
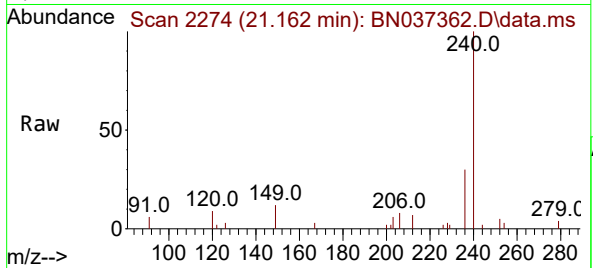
Tgt Ion:240 Resp: 5238

Ion Ratio Lower Upper

240 100

120 9.3 7.5 11.3

236 30.3 24.9 37.3



#31

Terphenyl-d14

Concen: 0.421 ng

RT: 19.612 min Scan# 2060

Delta R.T. -0.005 min

Lab File: BN037362.D

Acq: 20 Jun 2025 22:52

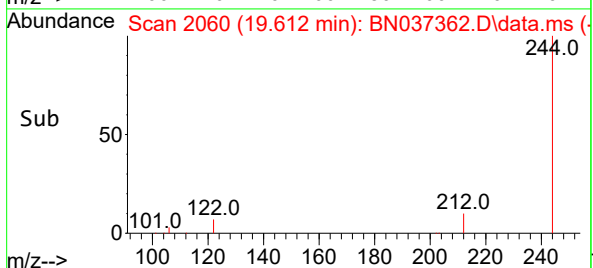
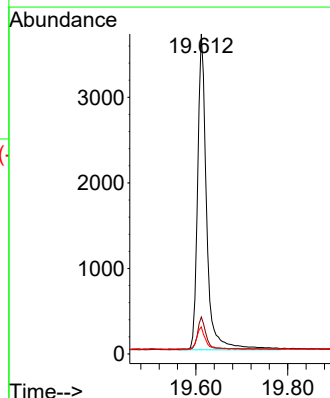
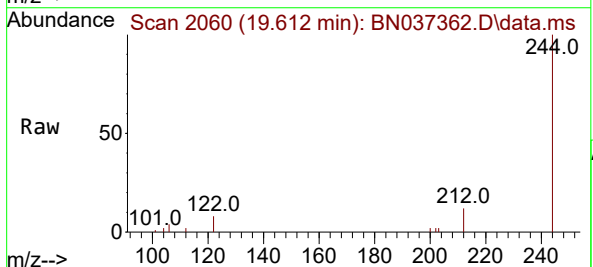
Tgt Ion:244 Resp: 5026

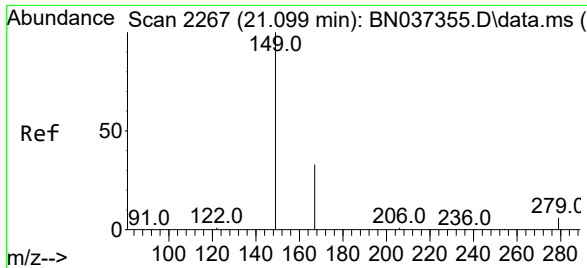
Ion Ratio Lower Upper

244 100

212 11.6 11.1 16.7

122 8.4 7.2 10.8

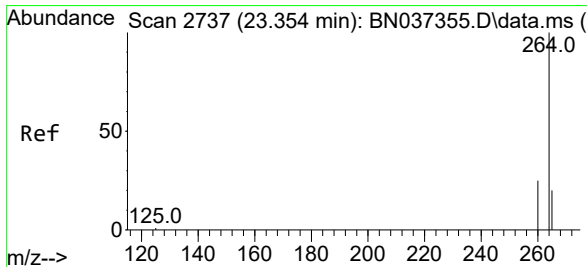
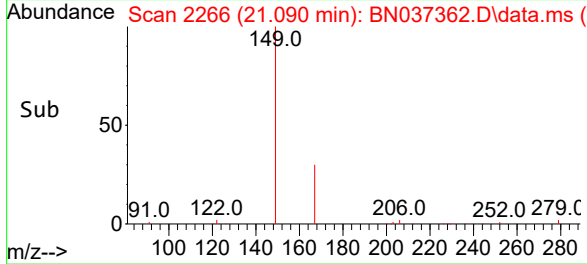
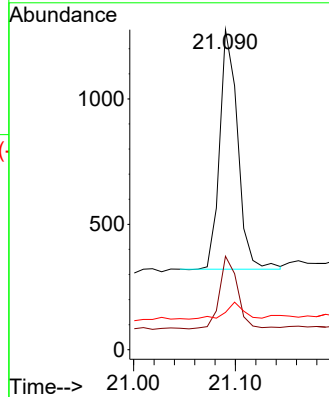
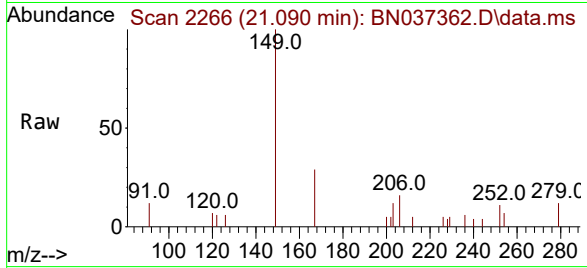




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.166 ng
RT: 21.090 min Scan# 21173
Delta R.T. -0.009 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

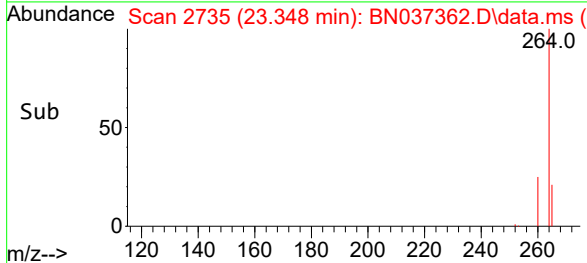
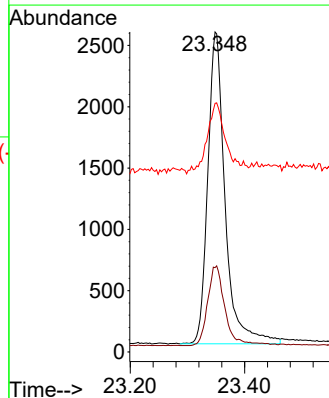
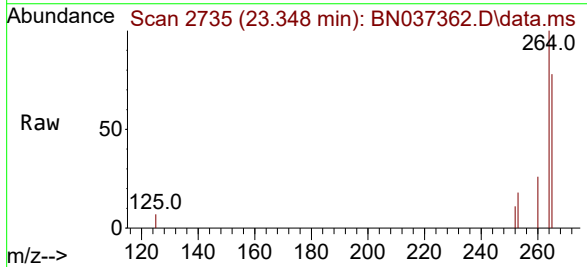
Instrument :
BNA_N
ClientSampleId :
PW-B6-L66-061925

Tgt Ion:149 Resp: 1173
Ion Ratio Lower Upper
149 100
167 30.9 24.6 37.0
279 7.2 6.5 9.7



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2735
Delta R.T. -0.006 min
Lab File: BN037362.D
Acq: 20 Jun 2025 22:52

Tgt Ion:264 Resp: 5349
Ion Ratio Lower Upper
264 100
260 26.4 21.4 32.2
265 77.7 71.4 107.0





CALIBRATION SUMMARY



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q2377 SAS No.: Q2377 SDG No.: Q2377
 Instrument ID: BNA_N Calibration Date(s): 06/20/2025 06/20/2025
 Calibration Time(s): 16:51 20:27

LAB FILE ID:		RRF0.1 = BN037353.D		RRF0.2 = BN037354.D		RRF0.4 = BN037355.D		
		RRF0.8 = BN037356.D		RRF1.6 = BN037357.D		RRF3.2 = BN037358.D		
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.619	0.638	0.666	0.610	0.666	0.664	0.648	4.0
Fluoranthene-d10	1.097	1.070	1.161	1.166	1.235	1.151	1.148	4.6
2-Fluorophenol	0.854	0.818	0.751	0.781	0.834	0.786	0.799	4.6
Phenol-d6	0.781	0.766	0.766	0.785	0.891	0.878	0.823	7.5
Nitrobenzene-d5	0.254	0.292	0.319	0.318	0.363	0.354	0.323	12.4
2-Fluorobiphenyl	1.705	1.675	1.777	1.714	1.897	1.752	1.757	4.1
2,4,6-Tribromophenol	0.219	0.226	0.230	0.231	0.253	0.238	0.235	5.0
Terphenyl-d14	0.949	0.911	0.925	0.829	0.909	0.935	0.912	4.3
1,4-Dioxane		0.506	0.390	0.412	0.417	0.370	0.407	13.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN062125.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jun 20 23:41:54 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037353.D 0.2 =BN037354.D 0.4 =BN037355.D 0.8 =BN037356.D 1.6 =BN037357.D 3.2 =BN037358.D 5 =BN037359.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	0.506	0.390	0.412	0.417	0.370	0.346	0.407	13.63	
3)	n-Nitrosodimet...	0.392	0.394	0.367	0.391	0.354	0.338	0.373	6.37	
4) S	2-Fluorophenol	0.854	0.818	0.751	0.781	0.834	0.786	0.771	0.799	4.65
5) S	Phenol-d6	0.781	0.766	0.766	0.785	0.891	0.878	0.896	0.823	7.45
6)	bis(2-Chloroet...	0.719	0.546	0.707	0.738	0.826	0.786	0.791	0.730	12.59
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.254	0.292	0.319	0.318	0.363	0.354	0.361	0.323	12.43
9)	Naphthalene	1.056	1.056	1.046	1.014	1.105	1.052	1.063	1.056	2.54
10)	Hexachlorobuta...	0.452	0.434	0.441	0.407	0.424	0.384	0.376	0.417	6.95
11) SURR2	Methylnaphth...	0.619	0.638	0.666	0.610	0.666	0.664	0.675	0.648	3.96
12)	2-Methylnaphth...	0.703	0.692	0.711	0.704	0.777	0.778	0.787	0.736	5.73
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.219	0.226	0.230	0.231	0.253	0.238	0.246	0.235	4.96
15) S	2-Fluorobiphenyl	1.705	1.675	1.777	1.714	1.897	1.752	1.778	1.757	4.15
16)	Acenaphthylene	1.646	1.636	1.597	1.595	1.797	1.717	1.786	1.682	5.06
17)	Acenaphthene	1.108	1.070	1.061	1.051	1.174	1.123	1.160	1.107	4.40
18)	Fluorene	1.499	1.470	1.506	1.490	1.660	1.605	1.660	1.556	5.34
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.070	0.079	0.097	0.110	0.107	0.114	0.096	18.63	
21)	4-Bromophenyl-...	0.264	0.267	0.279	0.284	0.305	0.295	0.299	0.285	5.55
22)	Hexachlorobenzene	0.322	0.319	0.314	0.304	0.324	0.296	0.292	0.310	4.11
23)	Atrazine	0.221	0.215	0.218	0.220	0.239	0.239	0.238	0.227	4.74
24)	Pentachlorophenol	0.131	0.137	0.157	0.169	0.161	0.170	0.154	10.69	
25)	Phenanthrene	1.108	1.075	1.104	1.139	1.242	1.221	1.222	1.158	5.88
26)	Anthracene	0.993	0.984	0.990	1.054	1.150	1.137	1.171	1.068	7.75
27) SURR	Fluoranthene-d10	1.097	1.070	1.161	1.166	1.235	1.151	1.158	1.148	4.62
28)	Fluoranthene	1.412	1.343	1.367	1.492	1.605	1.512	1.518	1.464	6.39
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.726	1.690	1.660	1.444	1.572	1.642	1.643	1.625	5.73
31) S	Terphenyl-d14	0.949	0.911	0.925	0.829	0.909	0.935	0.921	0.912	4.25
32)	Benzo(a)anthra...	1.309	1.168	1.216	1.278	1.431	1.372	1.429	1.315	7.76
33)	Chrysene	1.752	1.706	1.611	1.481	1.586	1.528	1.495	1.594	6.52
34)	Bis(2-ethylhex...	0.606	0.541	0.487	0.520	0.531	0.554	0.540	7.34	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN062125.M

36)	Indeno(1,2,3-c...	1.741	1.715	1.695	1.761	1.974	1.819	1.856	1.794	5.42
37)	Benzo(b)fluora...	1.428	1.380	1.444	1.392	1.541	1.532	1.587	1.472	5.50
38)	Benzo(k)fluora...	1.576	1.593	1.569	1.466	1.671	1.617	1.686	1.597	4.59
39) C	Benzo(a)pyrene	1.320	1.249	1.274	1.247	1.399	1.348	1.395	1.319	4.90
40)	Dibenzo(a,h)an...	1.179	1.185	1.236	1.355	1.561	1.446	1.478	1.348	11.32
41)	Benzo(g,h,i)pe...	1.620	1.554	1.589	1.560	1.720	1.577	1.598	1.603	3.53

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037353.D
 Acq On : 20 Jun 2025 16:51
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 20 23:26:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

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

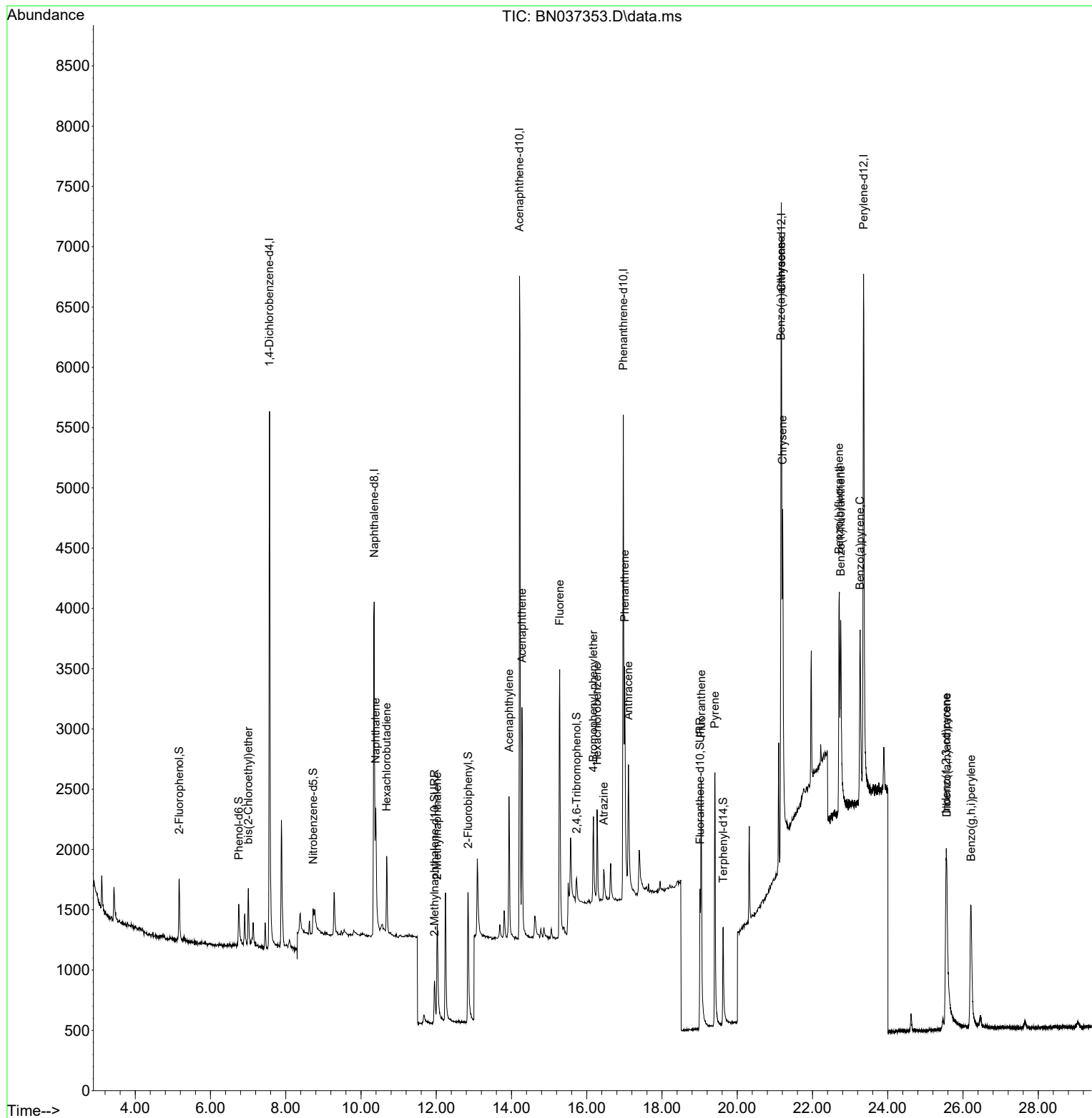
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2463	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	5110	0.400	ng	# 0.01
13) Acenaphthene-d10	14.213	164	3596	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	7299	0.400	ng	0.00
29) Chrysene-d12	21.171	240	6135	0.400	ng	0.00
35) Perylene-d12	23.357	264	6598	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	526	0.117	ng	0.00
5) Phenol-d6	6.752	99	481	0.108	ng	0.00
8) Nitrobenzene-d5	8.728	82	325	0.077	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	791	0.096	ng	0.01
14) 2,4,6-Tribromophenol	15.730	330	197	0.077	ng	0.01
15) 2-Fluorobiphenyl	12.848	172	1533	0.097	ng	0.01
27) Fluoranthene-d10	19.012	212	2001	0.088	ng	0.00
31) Terphenyl-d14	19.625	244	1456	0.104	ng	0.00
Target Compounds						
						Qvalue
6) bis(2-Chloroethyl)ether	7.004	93	443	0.114	ng	98
9) Naphthalene	10.394	128	1349	0.102	ng	98
10) Hexachlorobutadiene	10.682	225	578	0.089	ng	# 99
12) 2-Methylnaphthalene	12.026	142	898	0.096	ng	96
16) Acenaphthylene	13.935	152	1480	0.098	ng	98
17) Acenaphthene	14.277	154	996	0.100	ng	99
18) Fluorene	15.282	166	1348	0.095	ng	99
21) 4-Bromophenyl-phenylether	16.177	248	482	0.081	ng	# 95
22) Hexachlorobenzene	16.276	284	588	0.095	ng	98
23) Atrazine	16.450	200	404	0.087	ng	92
25) Phenanthrene	17.009	178	2021	0.098	ng	99
26) Anthracene	17.108	178	1812	0.094	ng	98
28) Fluoranthene	19.045	202	2576	0.091	ng	# 99
30) Pyrene	19.407	202	2647	0.113	ng	99
32) Benzo(a)anthracene	21.162	228	2007	0.101	ng	98
33) Chrysene	21.206	228	2687	0.107	ng	98
36) Indeno(1,2,3-cd)pyrene	25.550	276	2871	0.103	ng	# 98
37) Benzo(b)fluoranthene	22.708	252	2355	0.101	ng	# 75
38) Benzo(k)fluoranthene	22.749	252	2600	0.102	ng	# 79
39) Benzo(a)pyrene	23.263	252	2178	0.102	ng	# 60
40) Dibenzo(a,h)anthracene	25.567	278	1944	0.087	ng	# 78
41) Benzo(g,h,i)perylene	26.213	276	2673	0.104	ng	# 92

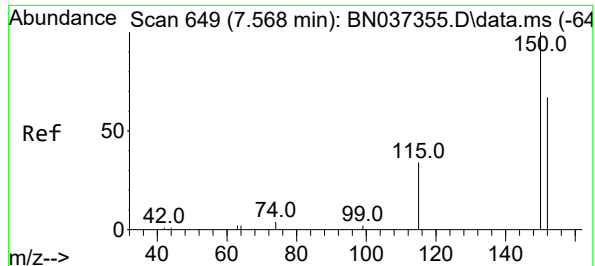
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Acq On : 20 Jun 2025 16:51
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

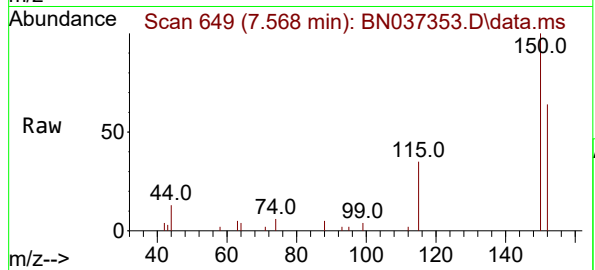
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



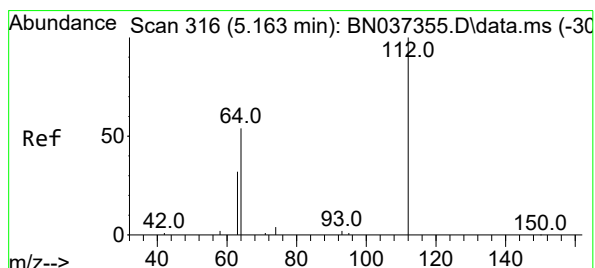
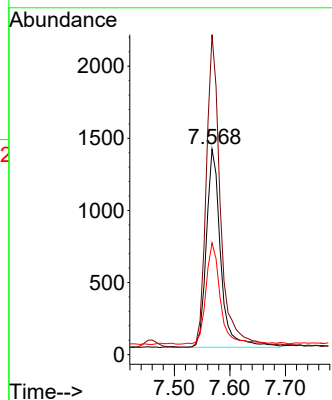
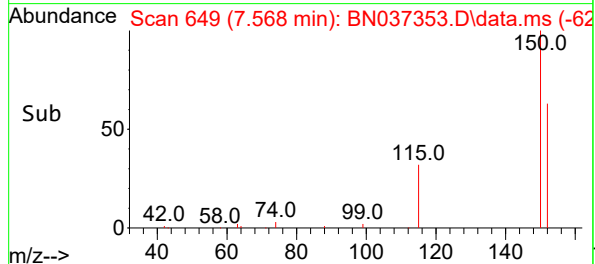


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

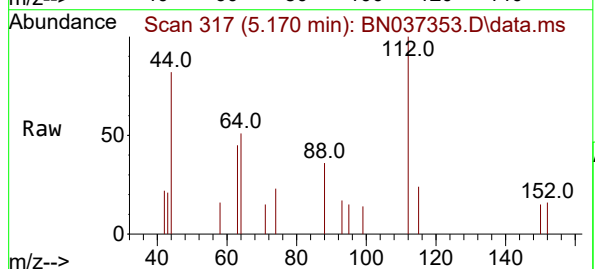
Instrument :
BNA_N
ClientSampleId :
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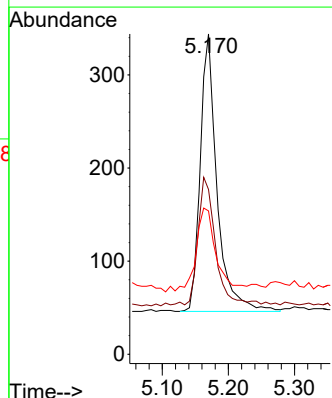
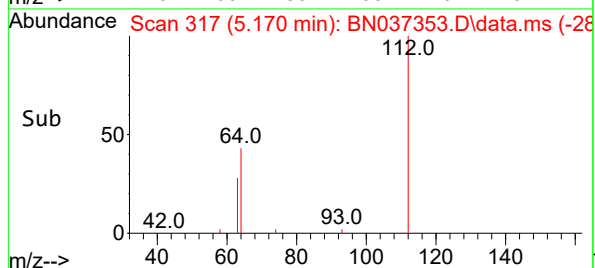
Tgt Ion:152 Resp: 2463
Ion Ratio Lower Upper
152 100
150 155.8 112.7 169.1
115 54.4 45.9 68.9

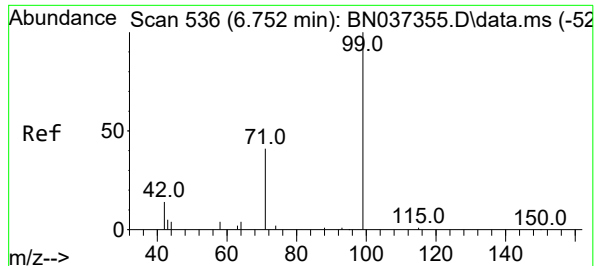


#4
2-Fluorophenol
Concen: 0.117 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51



Tgt Ion:112 Resp: 526
Ion Ratio Lower Upper
112 100
64 51.3 38.7 58.1
63 37.1 26.4 39.6

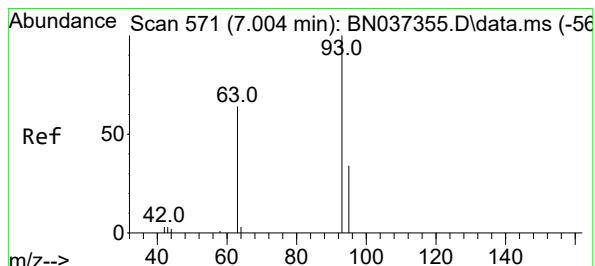
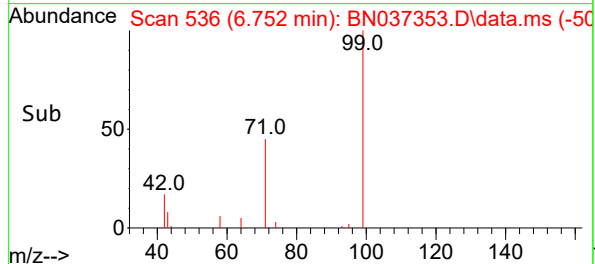
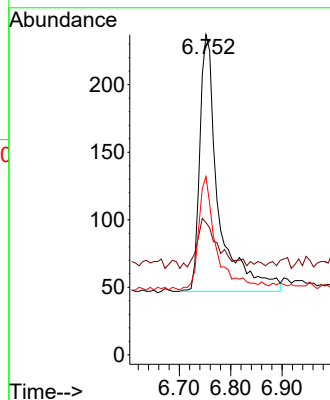
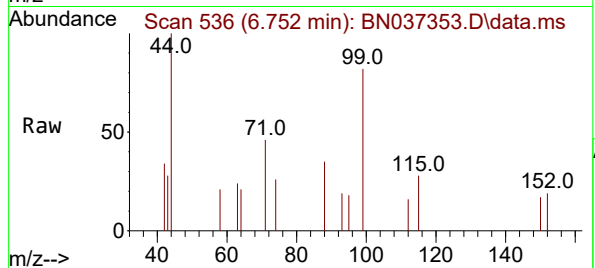




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

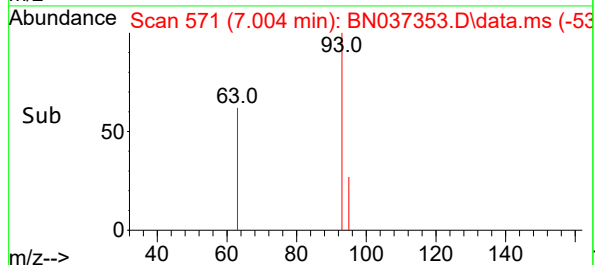
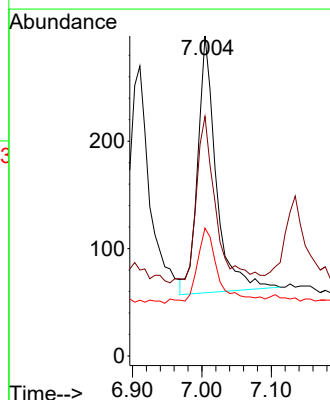
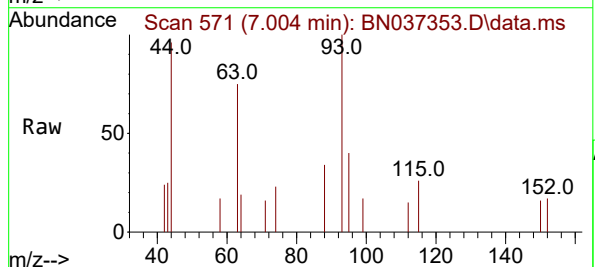
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

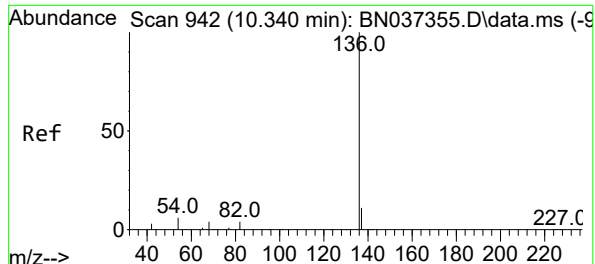
Tgt Ion: 99 Resp: 481
Ion Ratio Lower Upper
99 100
42 22.0 19.8 29.8
71 41.6 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 0.114 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion: 93 Resp: 443
Ion Ratio Lower Upper
93 100
63 68.4 53.2 79.8
95 34.5 27.3 40.9

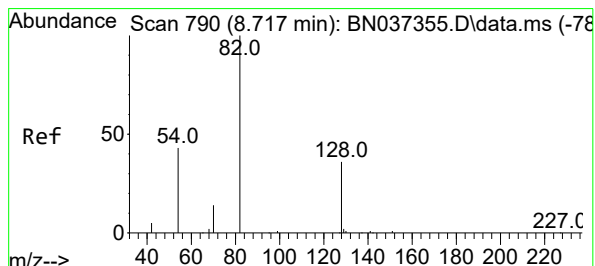
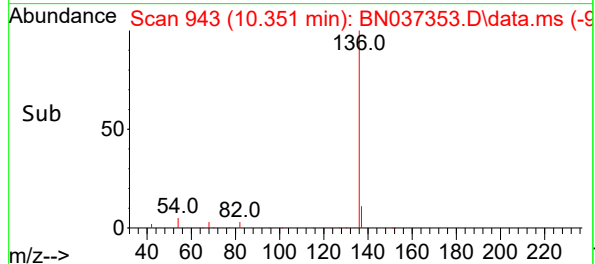
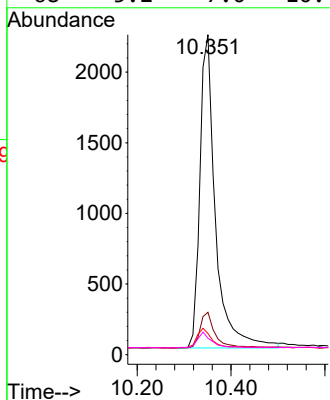
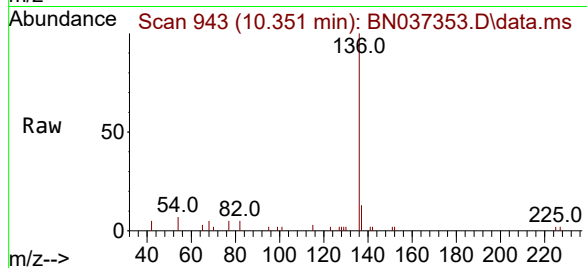




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

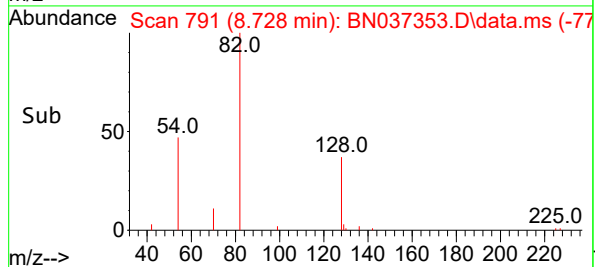
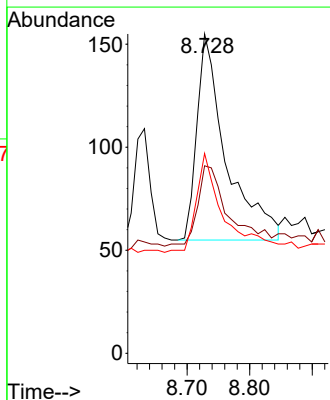
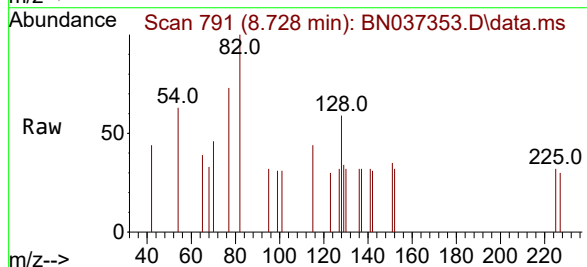
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BNA_N
ClientSampleId :
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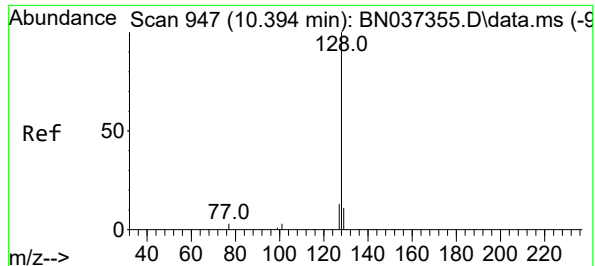
Tgt Ion:136 Resp: 5110
Ion Ratio Lower Upper
136 100
137 13.2 12.2 18.2
54 6.6 8.8 13.2#
68 5.2 7.0 10.4#



#8
Nitrobenzene-d5
Concen: 0.077 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion: 82 Resp: 325
Ion Ratio Lower Upper
82 100
128 58.7 42.5 63.7
54 62.6 43.2 64.8

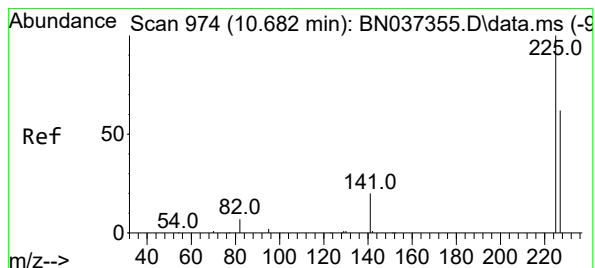
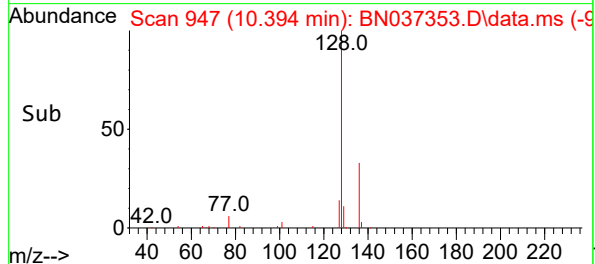
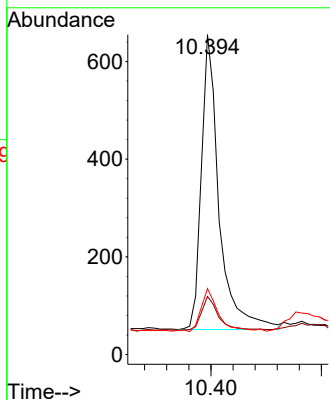
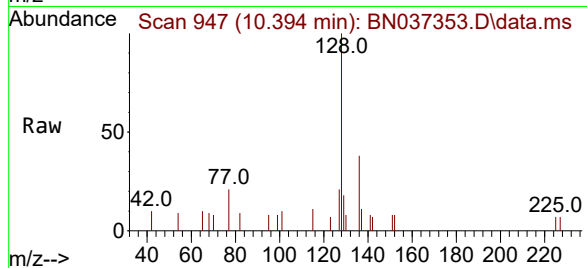




#9
Naphthalene
Concen: 0.102 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

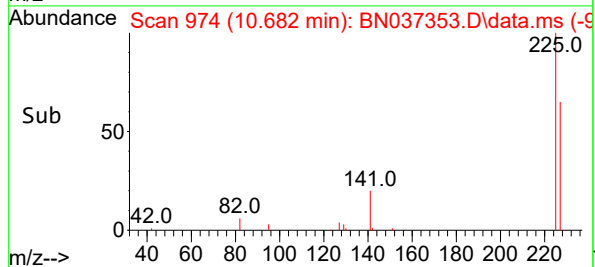
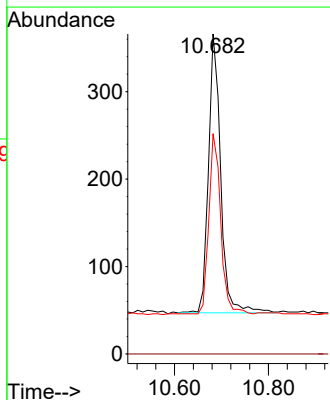
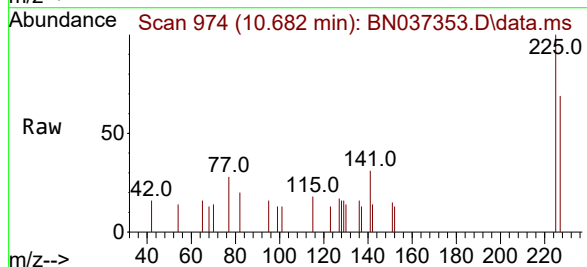
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

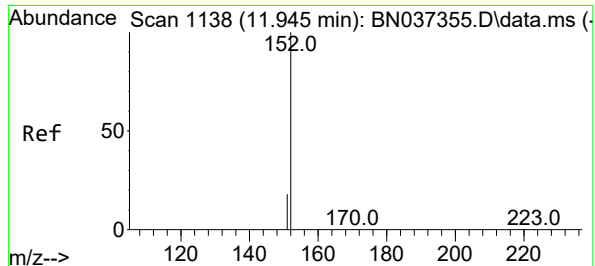
Tgt Ion	128	Resp	1349
Ion Ratio	Lower	Upper	
128	100		
129	18.2	14.0	21.0
127	20.6	15.8	23.8



#10
Hexachlorobutadiene
Concen: 0.089 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion	225	Resp	578
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	62.1	50.3	75.5

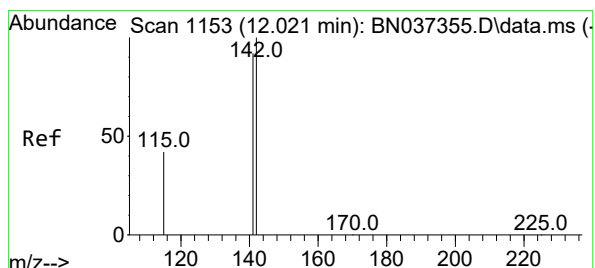
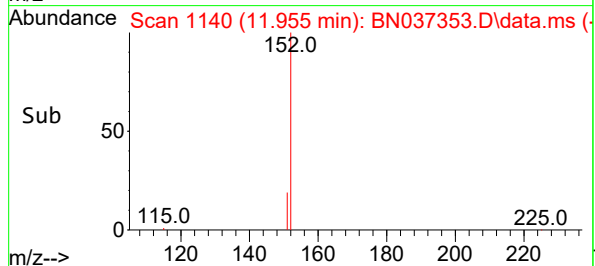
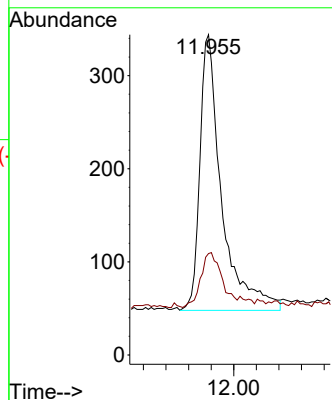
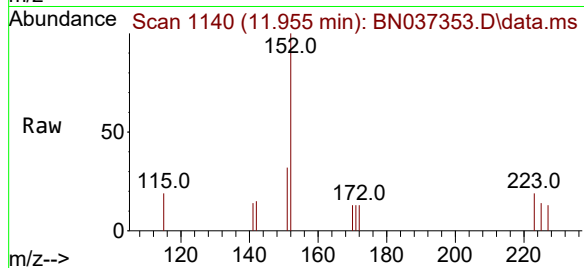




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.955 min Scan# 1138
Delta R.T. 0.010 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

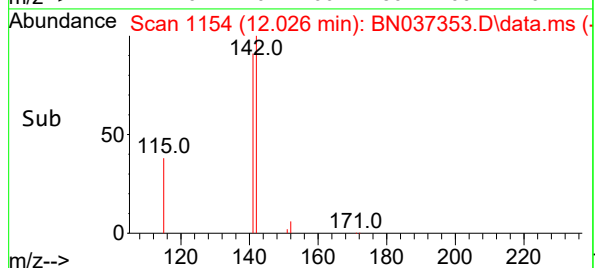
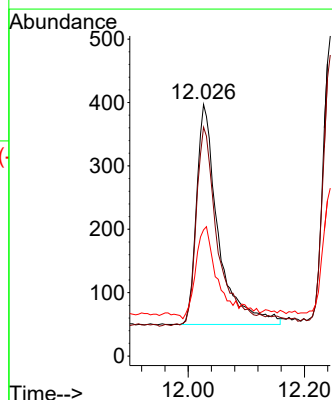
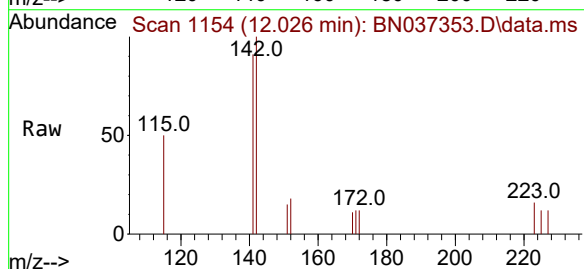
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

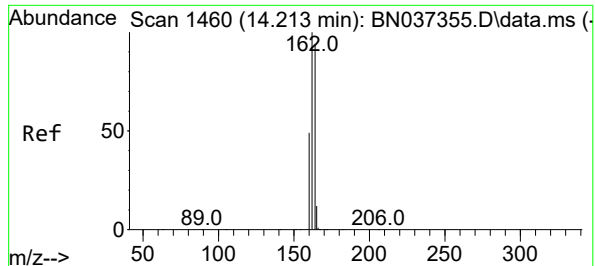
Tgt Ion:152 Resp: 791
Ion Ratio Lower Upper
152 100
151 19.5 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:142 Resp: 898
Ion Ratio Lower Upper
142 100
141 90.9 70.2 105.2
115 50.1 43.0 64.4

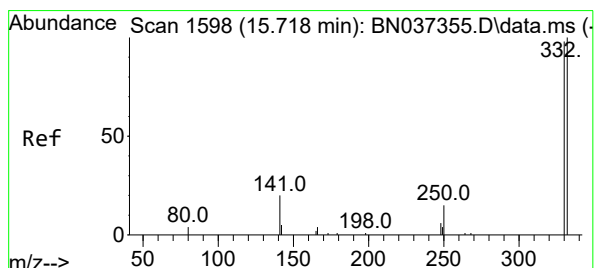
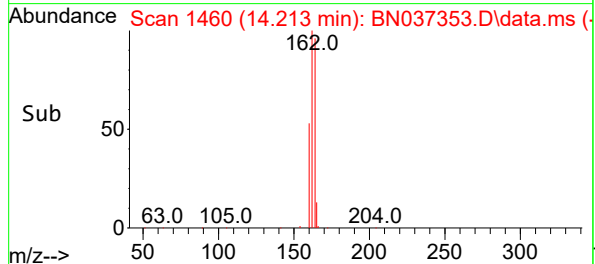
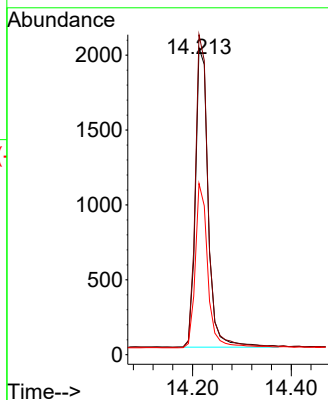
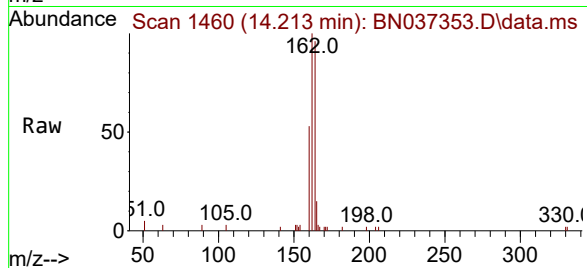




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

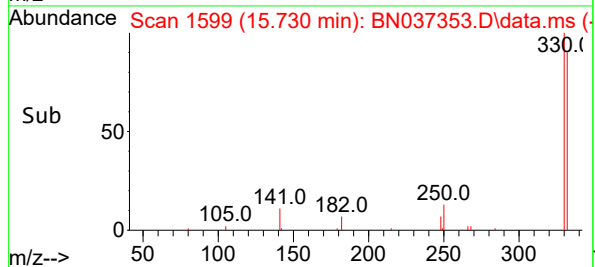
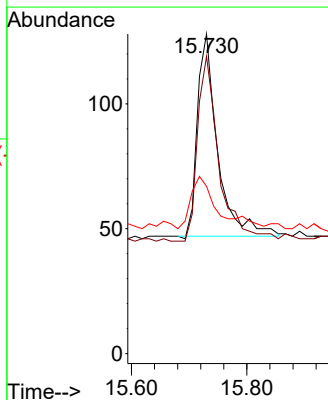
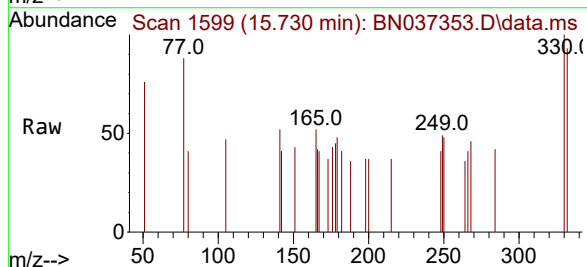
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

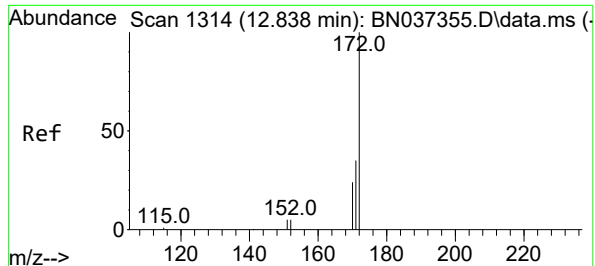
Tgt Ion:164 Resp: 3596
Ion Ratio Lower Upper
164 100
162 104.3 81.5 122.3
160 55.8 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.077 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:330 Resp: 197
Ion Ratio Lower Upper
330 100
332 97.5 78.4 117.6
141 33.5 24.4 36.6

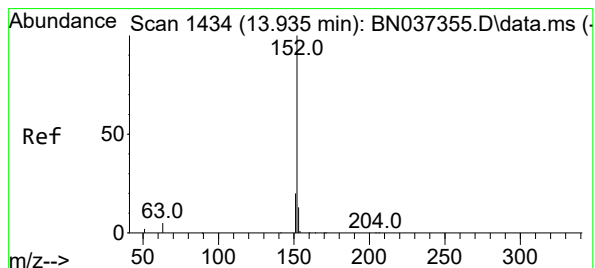
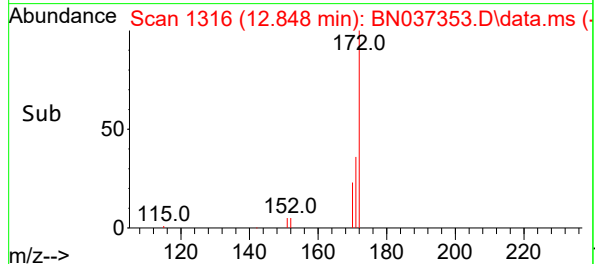
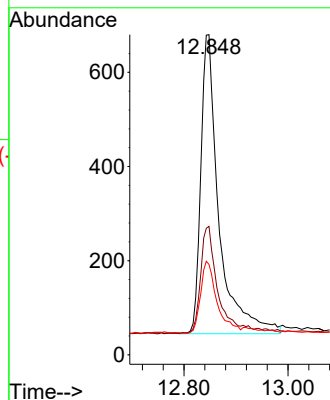
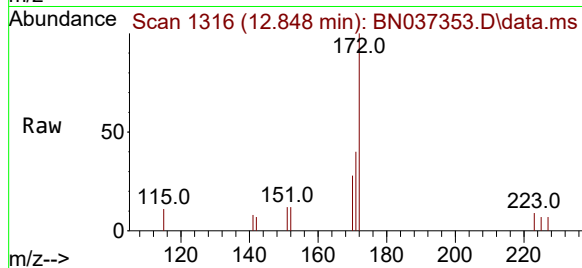




#15
2-Fluorobiphenyl
Concen: 0.097 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.010 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

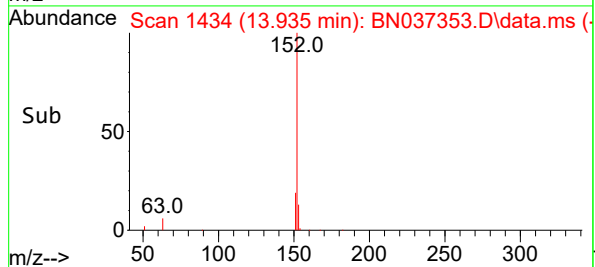
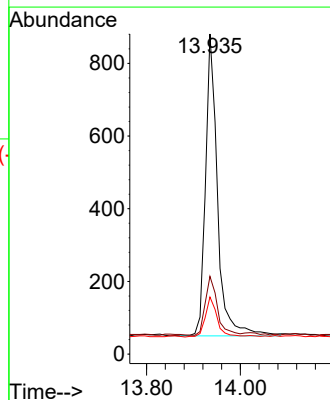
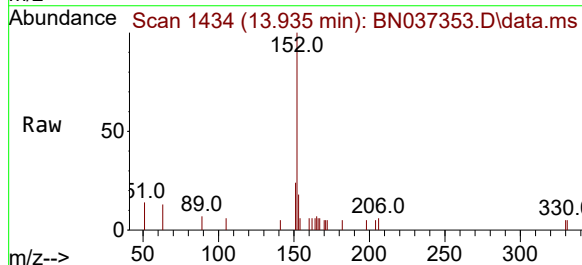
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

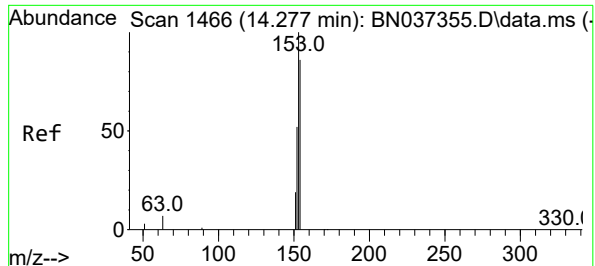
Tgt Ion:172 Resp: 1533
Ion Ratio Lower Upper
172 100
171 40.1 30.8 46.2
170 28.2 21.9 32.9



#16
Acenaphthylene
Concen: 0.098 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:152 Resp: 1480
Ion Ratio Lower Upper
152 100
151 19.5 16.6 24.8
153 13.2 10.2 15.2





#17

Acenaphthene

Concen: 0.100 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

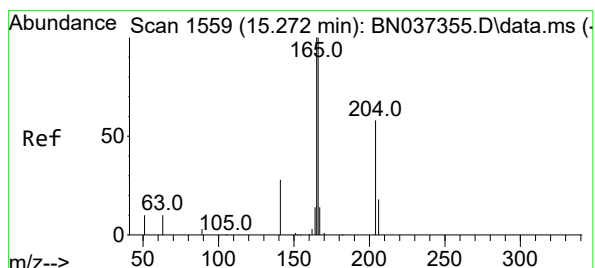
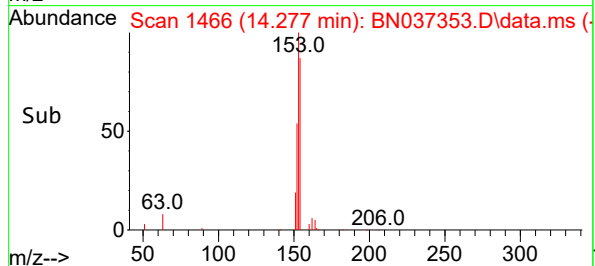
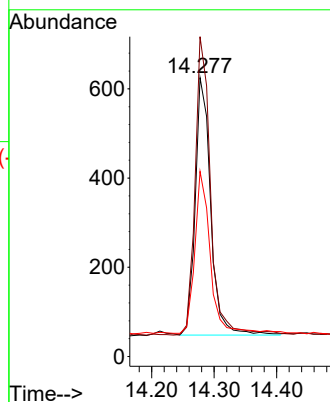
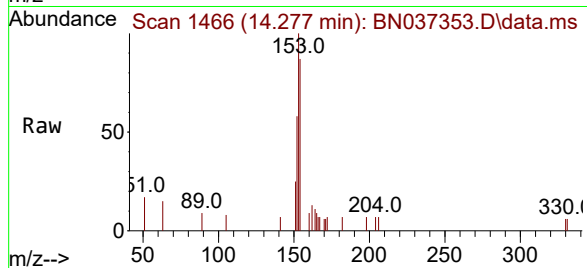
Tgt Ion:154 Resp: 996

Ion Ratio Lower Upper

154 100

153 116.2 93.1 139.7

152 62.9 48.6 73.0



#18

Fluorene

Concen: 0.095 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.011 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

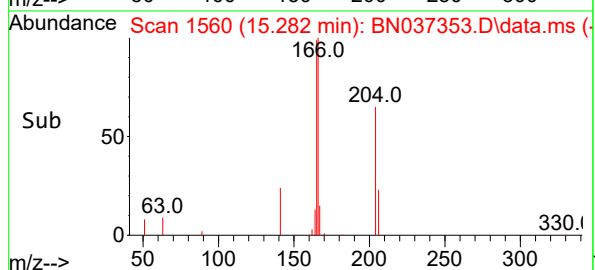
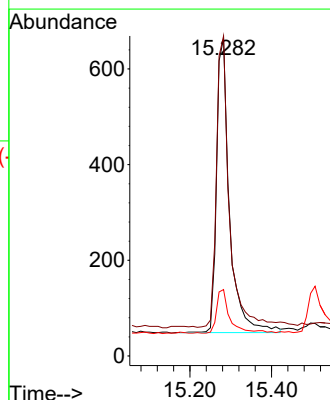
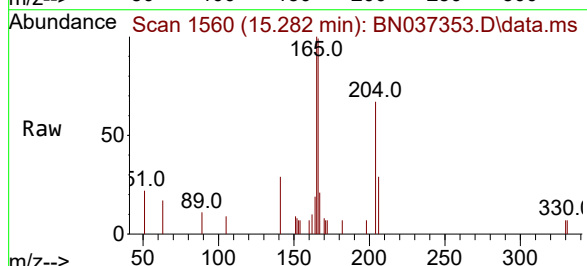
Tgt Ion:166 Resp: 1348

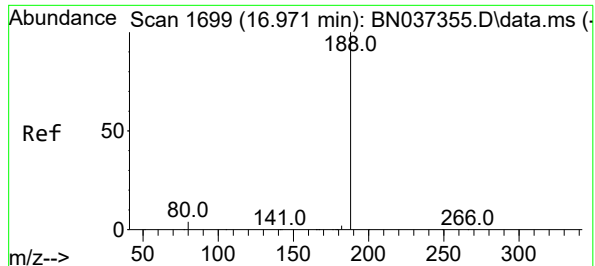
Ion Ratio Lower Upper

166 100

165 99.0 79.5 119.3

167 15.1 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

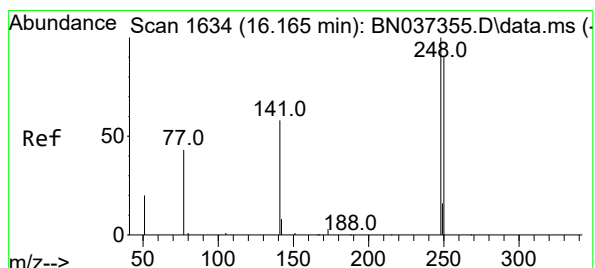
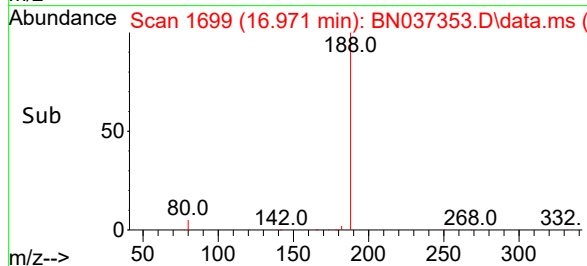
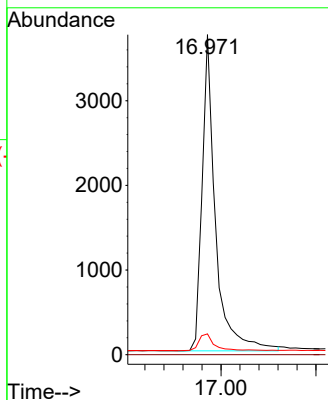
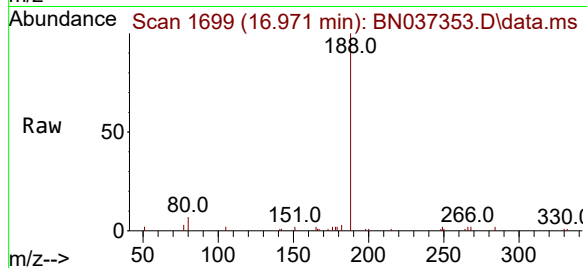
Tgt Ion:188 Resp: 7299

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.5 6.2 9.2



#21

4-Bromophenyl-phenylether

Concen: 0.081 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.012 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

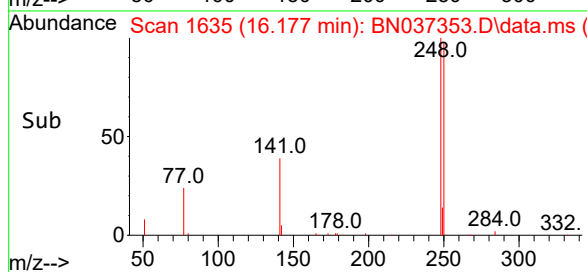
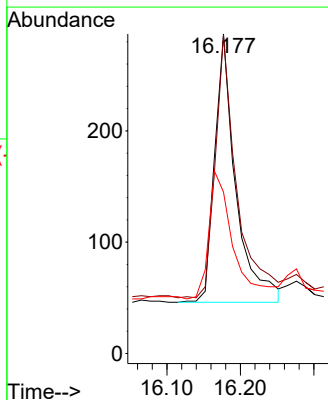
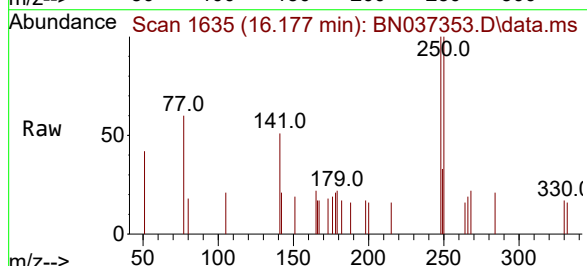
Tgt Ion:248 Resp: 482

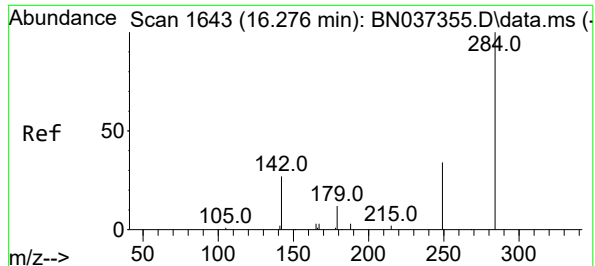
Ion Ratio Lower Upper

248 100

250 99.7 80.4 120.6

141 50.5 33.3 49.9#





#22

Hexachlorobenzene

Concen: 0.095 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

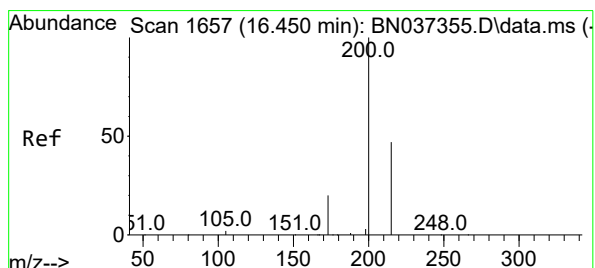
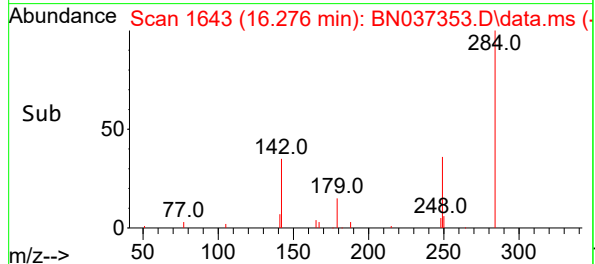
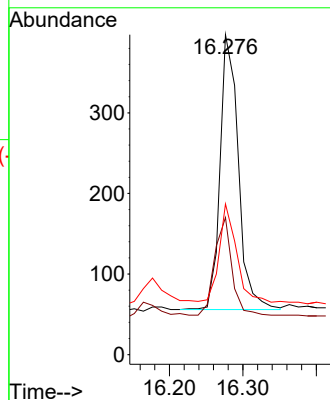
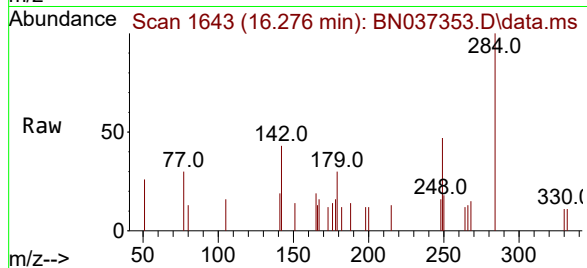
Tgt Ion:284 Resp: 588

Ion Ratio Lower Upper

284 100

142 35.9 27.0 40.6

249 36.7 28.8 43.2



#23

Atrazine

Concen: 0.087 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

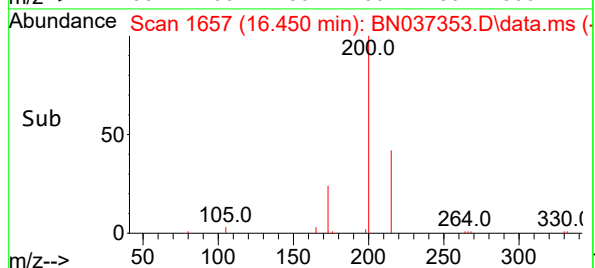
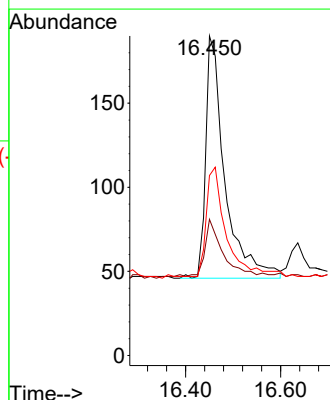
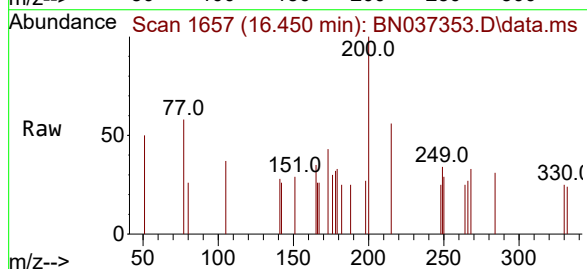
Tgt Ion:200 Resp: 404

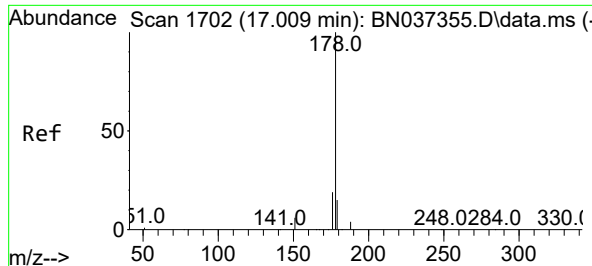
Ion Ratio Lower Upper

200 100

173 42.6 29.2 43.8

215 56.3 48.8 73.2

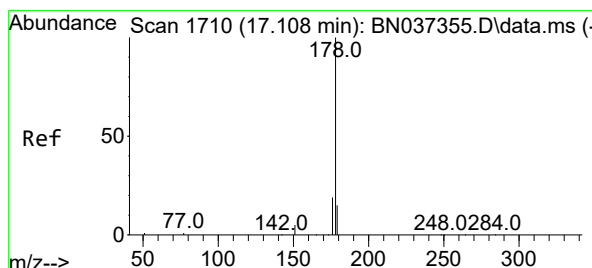
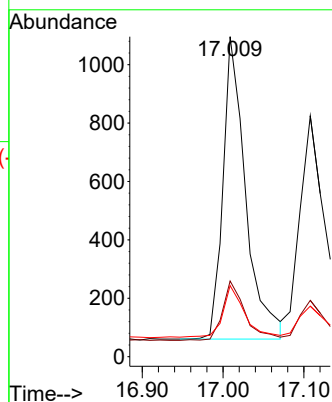
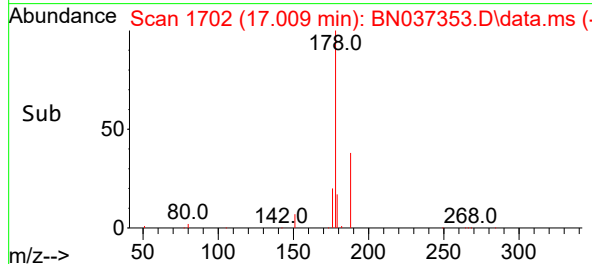
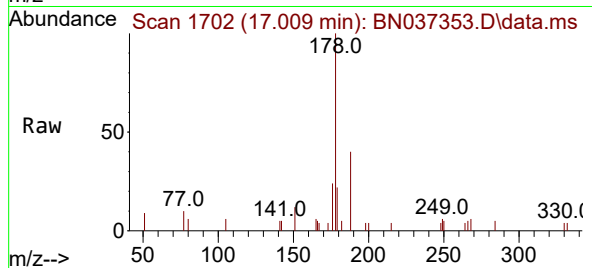




#25
Phenanthrene
Concen: 0.098 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

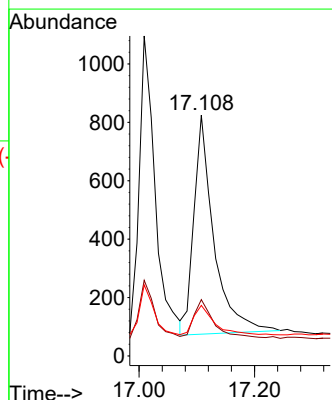
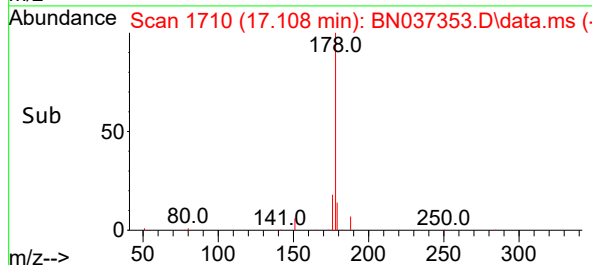
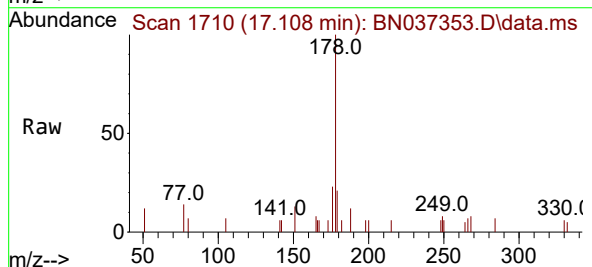
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

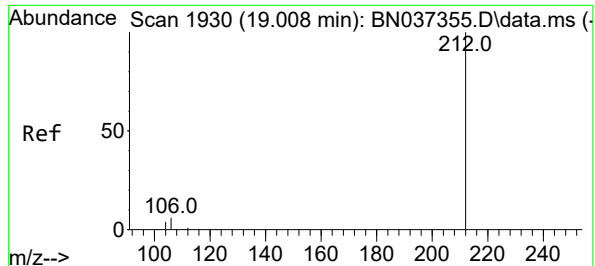
Tgt Ion:178 Resp: 2021
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 16.8 12.9 19.3



#26
Anthracene
Concen: 0.094 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:178 Resp: 1812
Ion Ratio Lower Upper
178 100
176 18.8 14.7 22.1
179 14.8 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.088 ng

RT: 19.012 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

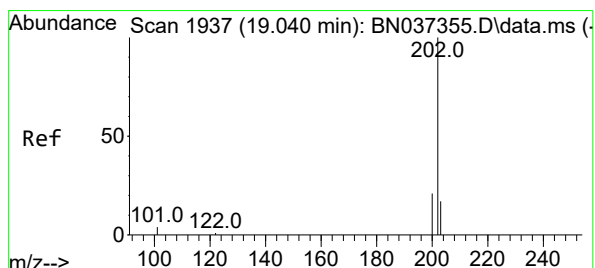
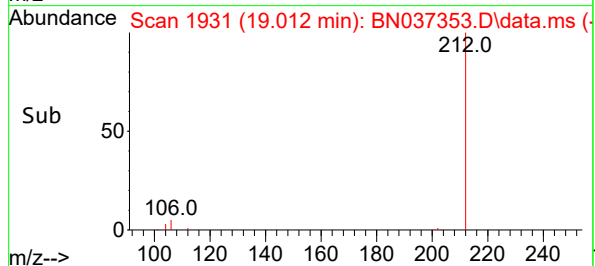
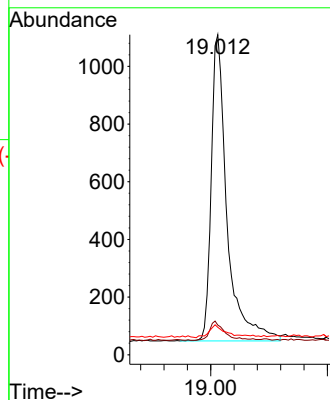
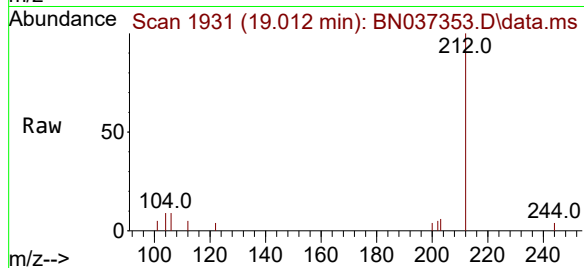
Tgt Ion:212 Resp: 2001

Ion Ratio Lower Upper

212 100

106 5.8 3.0 4.4#

104 4.1 2.0 3.0#



#28

Fluoranthene

Concen: 0.091 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

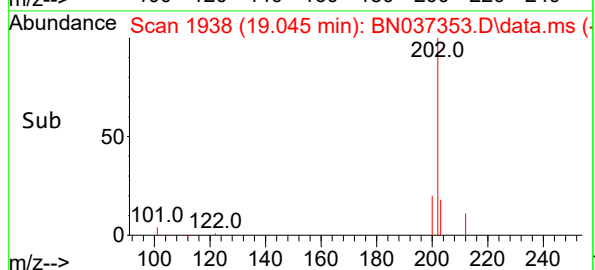
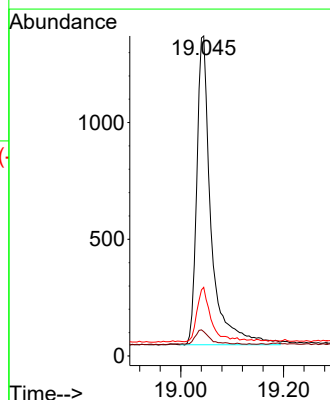
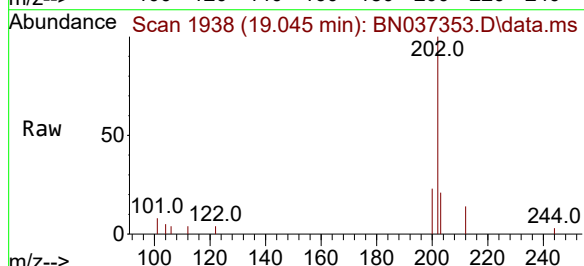
Tgt Ion:202 Resp: 2576

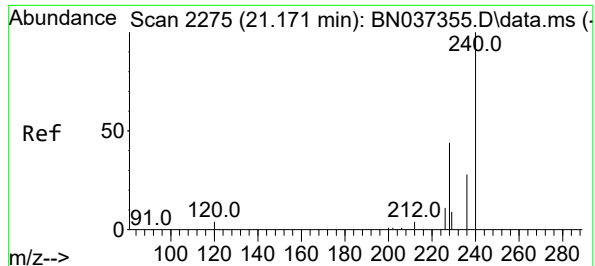
Ion Ratio Lower Upper

202 100

101 4.7 3.0 4.6#

203 17.5 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

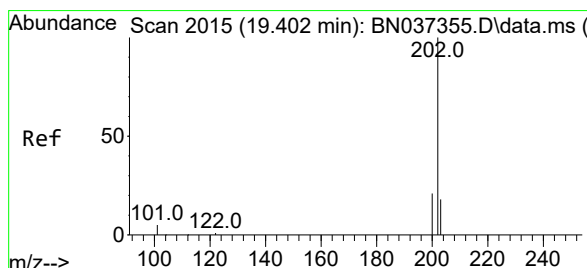
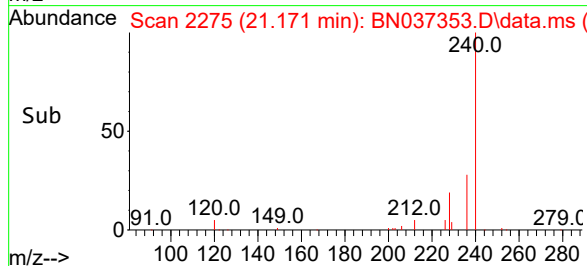
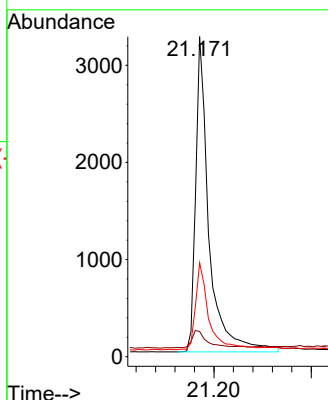
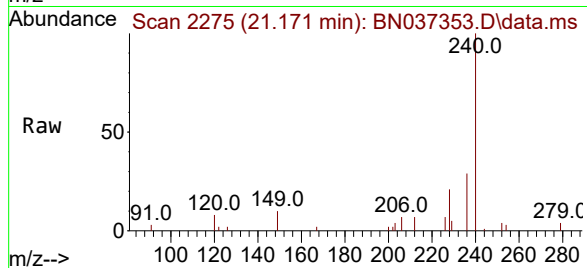
Tgt Ion:240 Resp: 6135

Ion Ratio Lower Upper

240 100

120 7.9 7.5 11.3

236 29.3 24.9 37.3



#30

Pyrene

Concen: 0.113 ng

RT: 19.407 min Scan# 2016

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

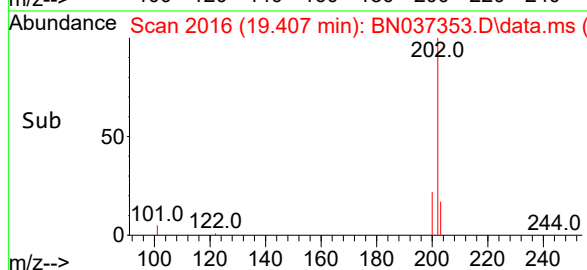
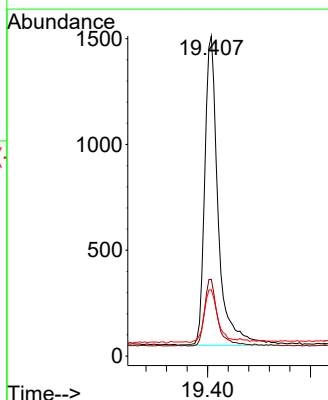
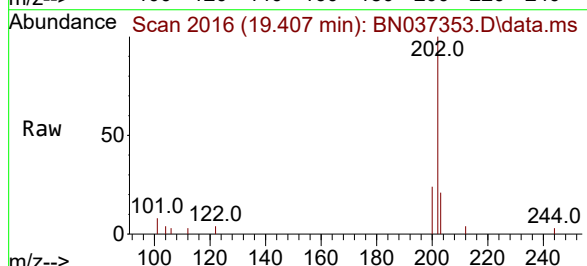
Tgt Ion:202 Resp: 2647

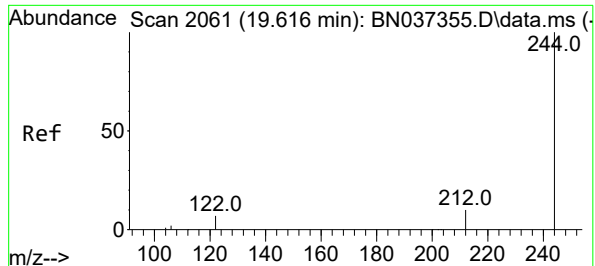
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 17.4 14.5 21.7

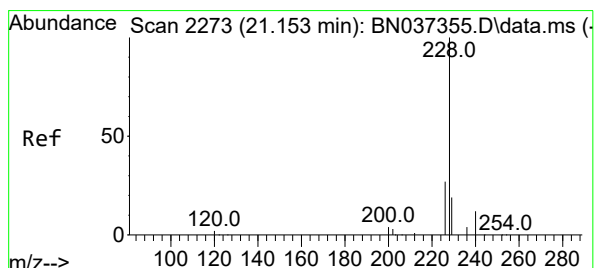
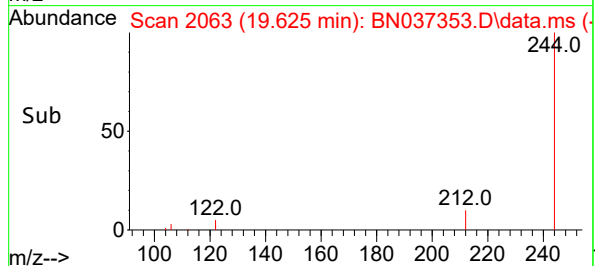
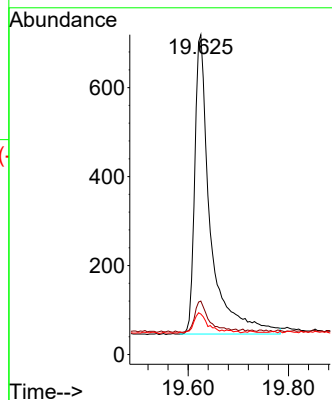
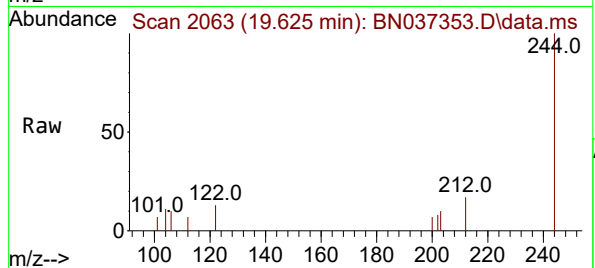




#31
Terphenyl-d14
Concen: 0.104 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

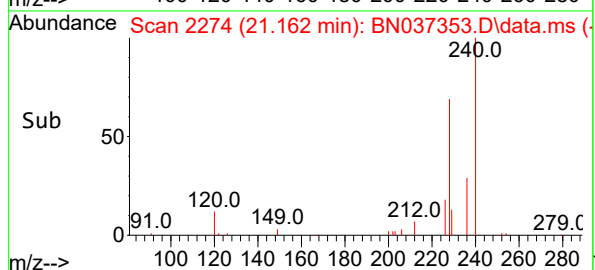
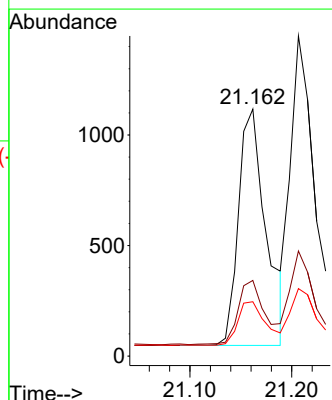
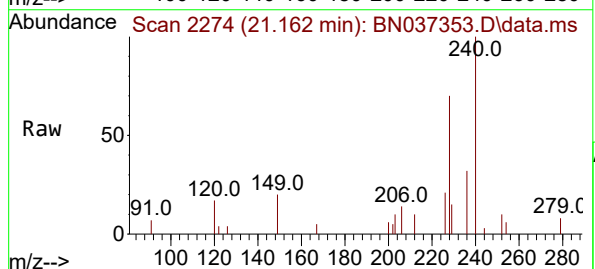
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

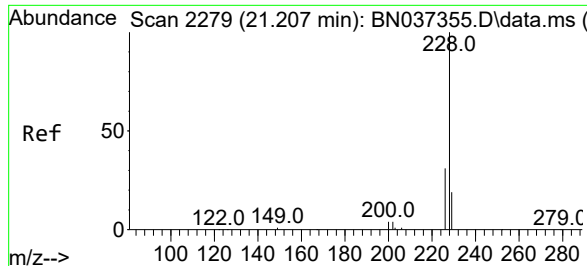
Tgt Ion:244 Resp: 1456
Ion Ratio Lower Upper
244 100
212 16.7 11.1 16.7#
122 12.7 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 0.101 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:228 Resp: 2007
Ion Ratio Lower Upper
228 100
226 30.6 23.0 34.4
229 22.0 17.4 26.0





#33

Chrysene

Concen: 0.107 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

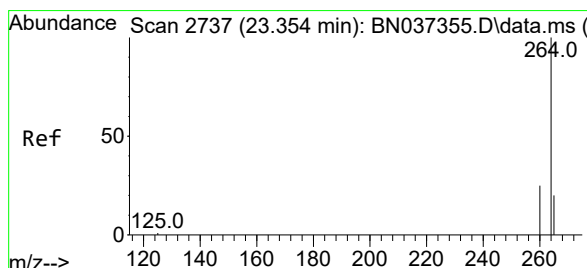
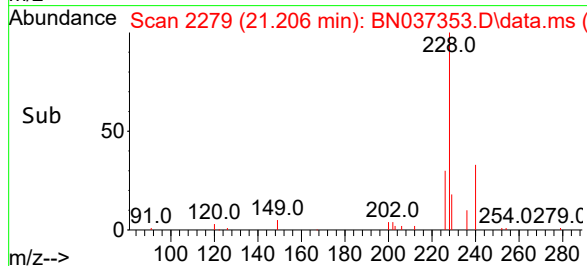
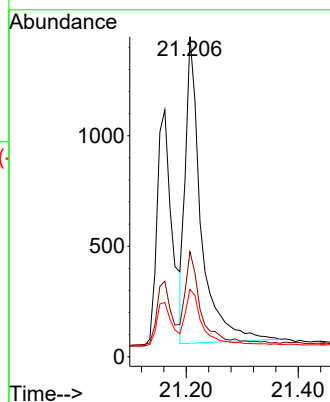
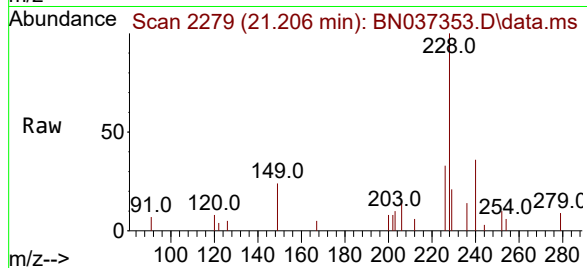
Tgt Ion:228 Resp: 2687

Ion Ratio Lower Upper

228 100

226 32.8 25.4 38.2

229 21.1 17.3 25.9



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 2738

Delta R.T. 0.003 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

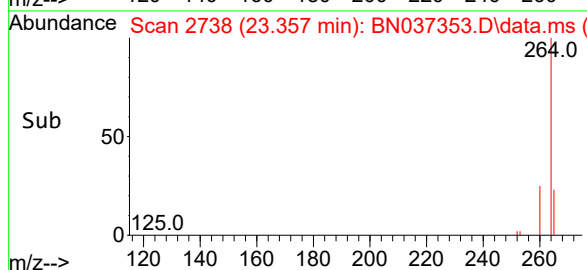
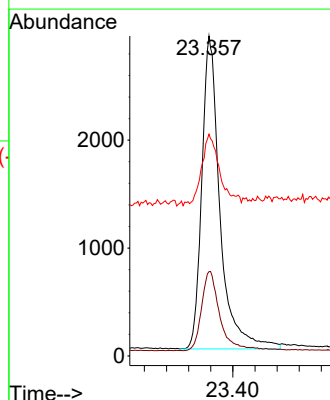
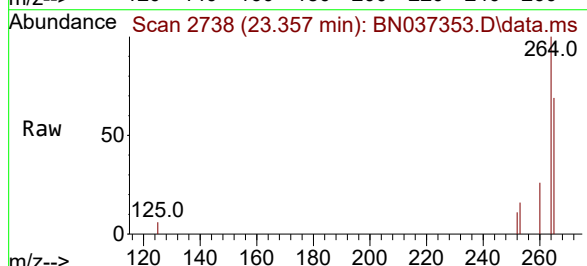
Tgt Ion:264 Resp: 6598

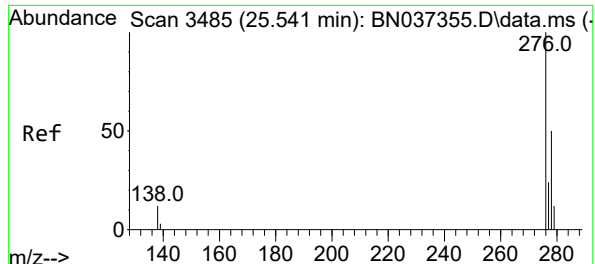
Ion Ratio Lower Upper

264 100

260 26.4 21.4 32.2

265 69.3 71.4 107.0#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.103 ng

RT: 25.550 min Scan# 3488

Delta R.T. 0.009 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

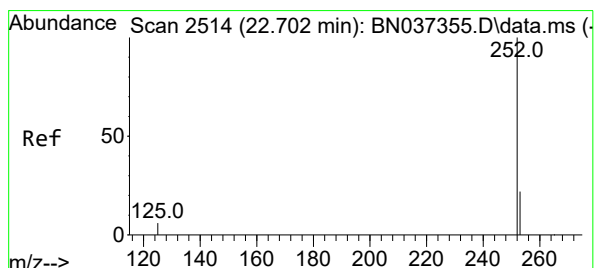
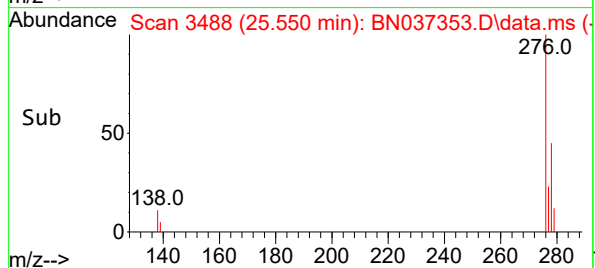
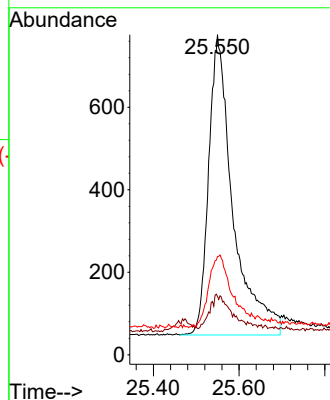
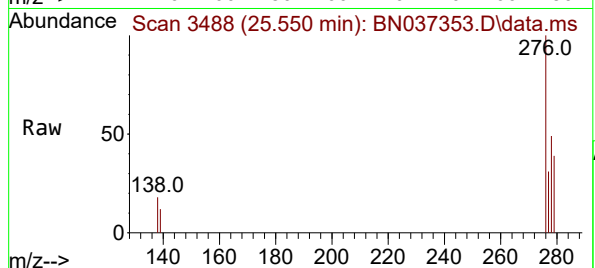
Tgt Ion:276 Resp: 2871

Ion Ratio Lower Upper

276 100

138 4.2 2.2 3.2#

277 22.3 17.1 25.7



#37

Benzo(b)fluoranthene

Concen: 0.101 ng

RT: 22.708 min Scan# 2516

Delta R.T. 0.006 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

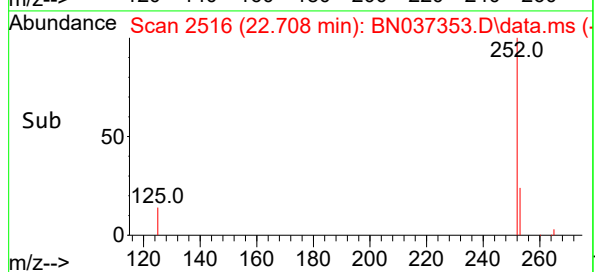
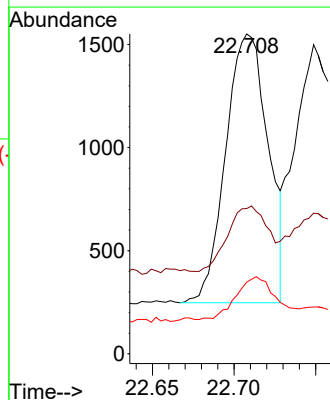
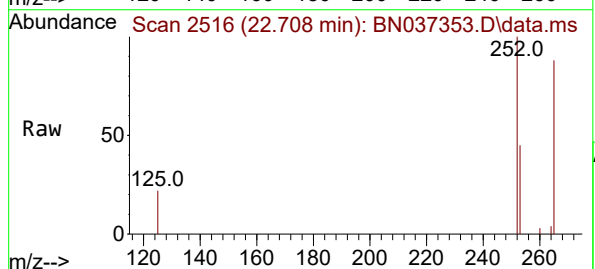
Tgt Ion:252 Resp: 2355

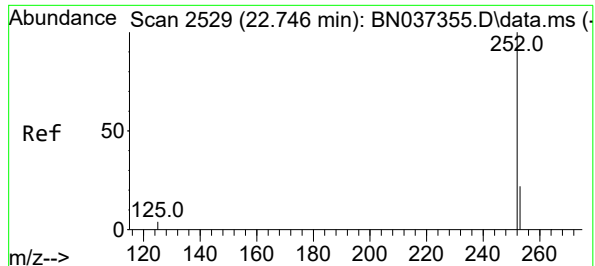
Ion Ratio Lower Upper

252 100

253 45.5 26.6 40.0#

125 22.4 6.1 9.1#





#38

Benzo(k)fluoranthene

Concen: 0.102 ng

RT: 22.749 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

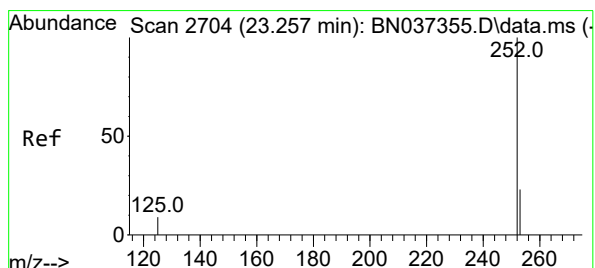
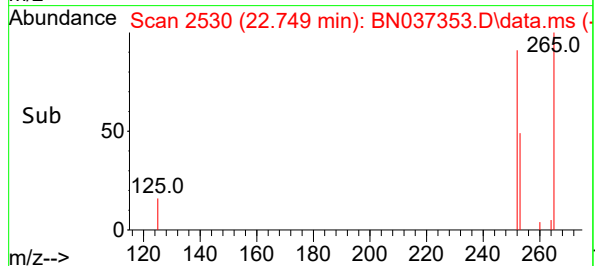
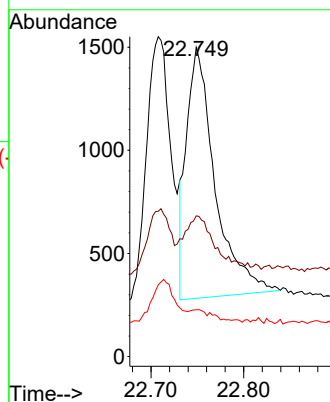
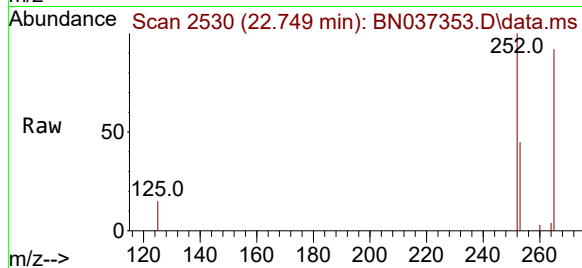
Tgt Ion:252 Resp: 2600

Ion Ratio Lower Upper

252 100

253 45.5 26.7 40.1#

125 15.1 6.5 9.7#



#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 23.263 min Scan# 2706

Delta R.T. 0.006 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

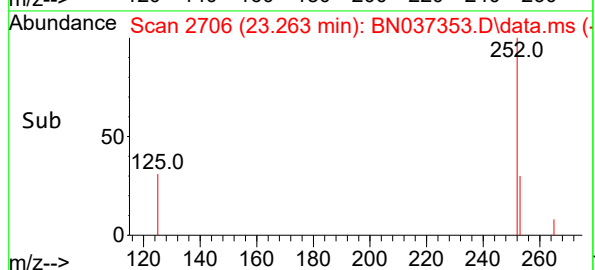
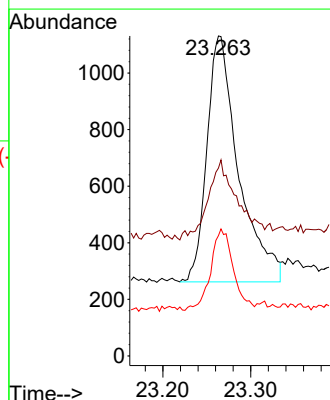
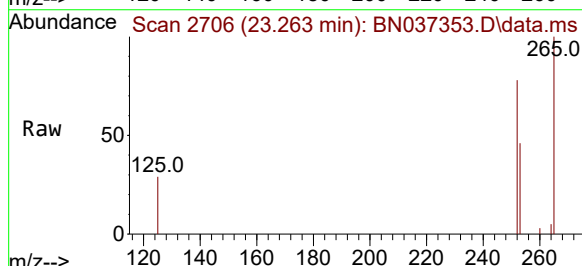
Tgt Ion:252 Resp: 2178

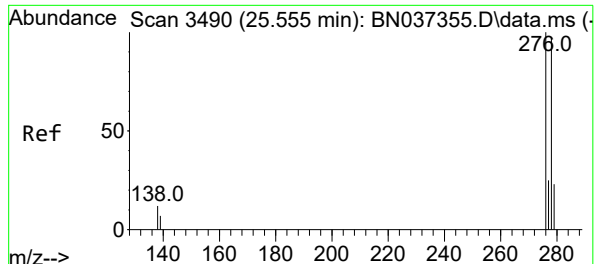
Ion Ratio Lower Upper

252 100

253 58.7 31.6 47.4#

125 37.6 8.4 12.6#

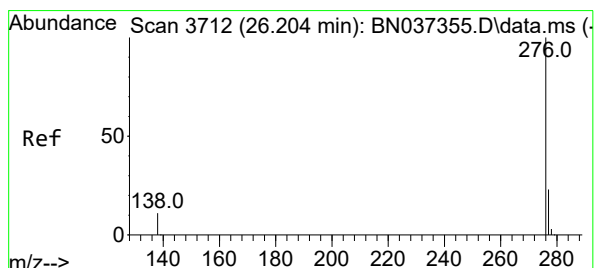
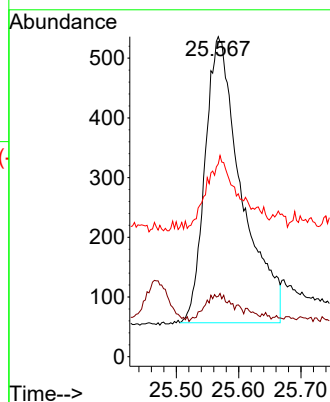
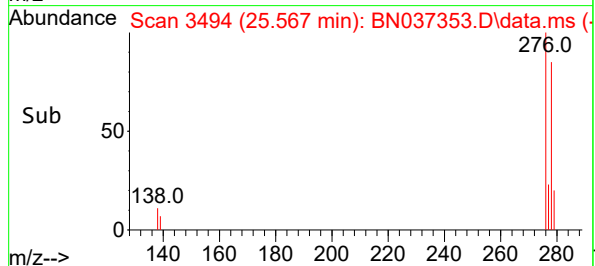
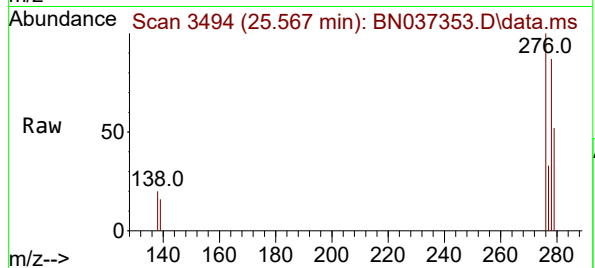




#40
Dibenzo(a,h)anthracene
Concen: 0.087 ng
RT: 25.567 min Scan# 3494
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

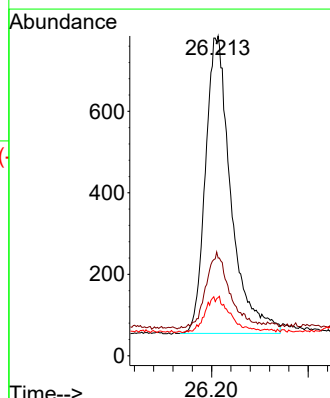
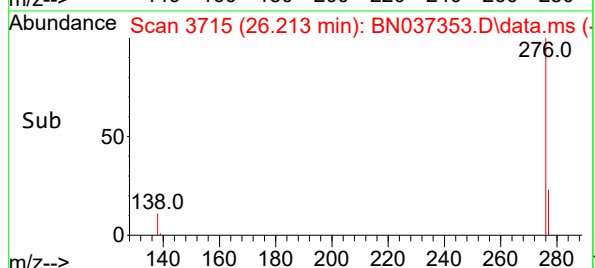
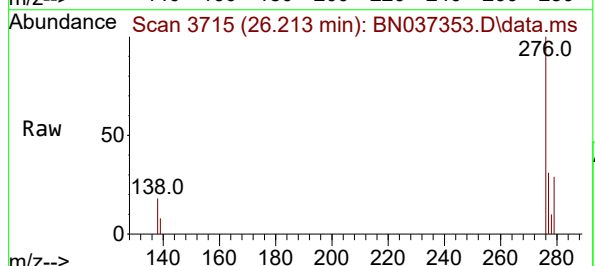
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:278 Resp: 1944
Ion Ratio Lower Upper
278 100
139 18.8 10.2 15.4#
279 60.3 35.6 53.4#



#41
Benzo(g,h,i)perylene
Concen: 0.104 ng
RT: 26.213 min Scan# 3715
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:276 Resp: 2673
Ion Ratio Lower Upper
276 100
277 30.6 22.7 34.1
138 18.2 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037354.D
 Acq On : 20 Jun 2025 17:27
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jun 20 23:26:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1865	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3983	0.400	ng	# 0.01
13) Acenaphthene-d10	14.213	164	2790	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5628	0.400	ng	0.00
29) Chrysene-d12	21.171	240	4640	0.400	ng	0.00
35) Perylene-d12	23.354	264	4914	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	763	0.224	ng	0.00
5) Phenol-d6	6.752	99	714	0.212	ng	0.00
8) Nitrobenzene-d5	8.728	82	582	0.176	ng	0.01
11) 2-Methylnaphthalene-d10	11.950	152	1271	0.197	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	315	0.158	ng	0.01
15) 2-Fluorobiphenyl	12.843	172	2337	0.191	ng	0.00
27) Fluoranthene-d10	19.008	212	3010	0.172	ng	0.00
31) Terphenyl-d14	19.621	244	2114	0.200	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	472	0.287	ng	98
3) n-Nitrosodimethylamine	3.422	42	366	0.191	ng	# 79
6) bis(2-Chloroethyl)ether	7.012	93	509	0.172	ng	95
9) Naphthalene	10.394	128	2104	0.204	ng	94
10) Hexachlorobutadiene	10.682	225	864	0.171	ng	# 99
12) 2-Methylnaphthalene	12.026	142	1379	0.190	ng	93
16) Acenaphthylene	13.935	152	2282	0.195	ng	97
17) Acenaphthene	14.277	154	1492	0.192	ng	99
18) Fluorene	15.282	166	2051	0.186	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	196	0.115	ng	# 68
21) 4-Bromophenyl-phenylether	16.177	248	750	0.163	ng	96
22) Hexachlorobenzene	16.276	284	898	0.187	ng	98
23) Atrazine	16.450	200	604	0.168	ng	96
24) Pentachlorophenol	16.636	266	369	0.140	ng	97
25) Phenanthrene	17.009	178	3024	0.190	ng	98
26) Anthracene	17.108	178	2769	0.186	ng	97
28) Fluoranthene	19.040	202	3780	0.174	ng	# 98
30) Pyrene	19.402	202	3921	0.221	ng	99
32) Benzo(a)anthracene	21.153	228	2710	0.181	ng	98
33) Chrysene	21.206	228	3959	0.208	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1406	0.229	ng	98
36) Indeno(1,2,3-cd)pyrene	25.547	276	4213	0.202	ng	# 95
37) Benzo(b)fluoranthene	22.702	252	3390	0.195	ng	# 90
38) Benzo(k)fluoranthene	22.746	252	3913	0.207	ng	# 90
39) Benzo(a)pyrene	23.260	252	3070	0.193	ng	# 79
40) Dibenzo(a,h)anthracene	25.564	278	2911	0.175	ng	# 93
41) Benzo(g,h,i)perylene	26.207	276	3819	0.200	ng	# 96

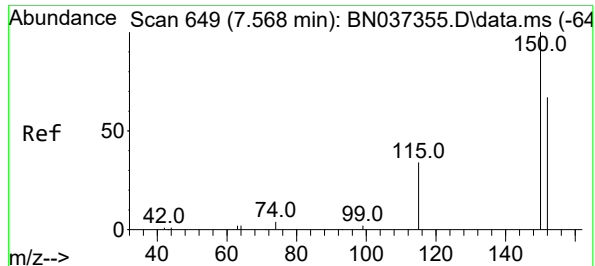
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Abundance

TIC: BN037354.D\data.ms

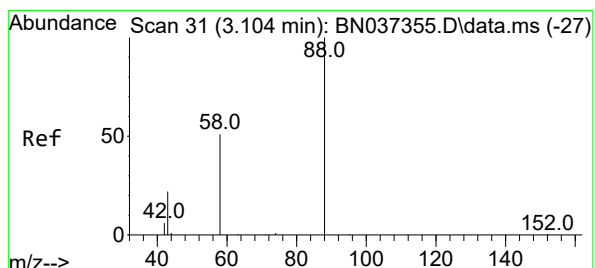
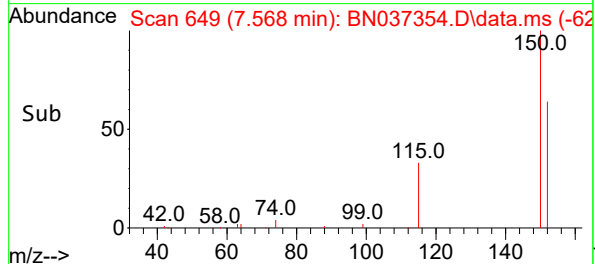
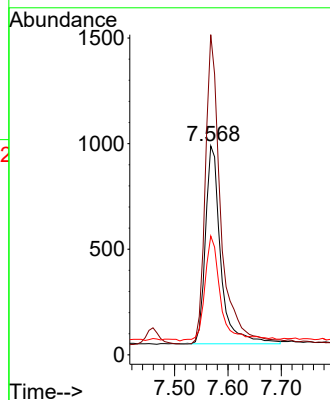
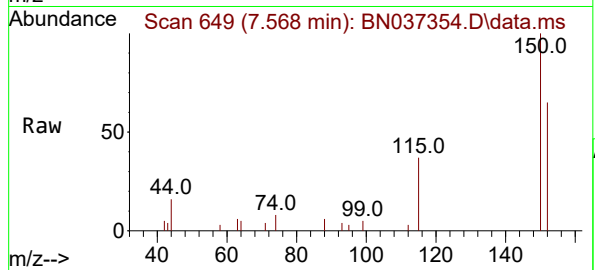
Time-->



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

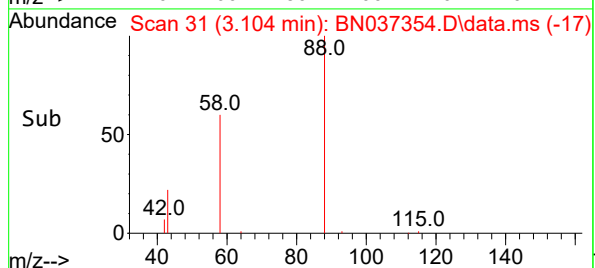
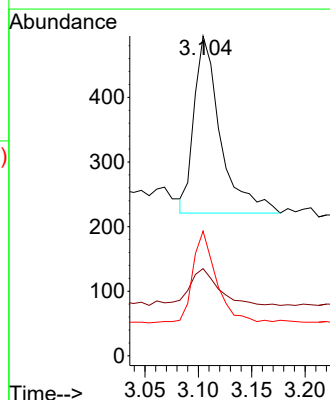
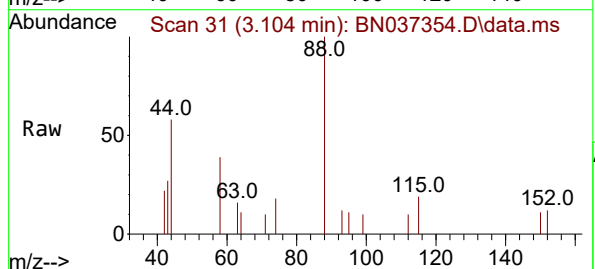
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1865
Ion Ratio Lower Upper
152 100
150 153.3 112.7 169.1
115 56.9 45.9 68.9

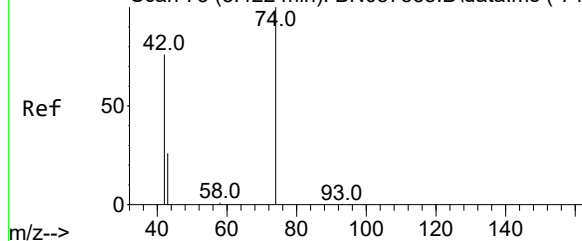


#2
1,4-Dioxane
Concen: 0.287 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

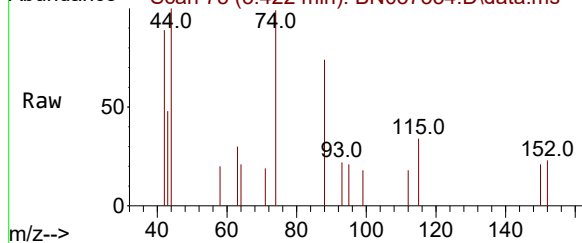
Tgt Ion: 88 Resp: 472
Ion Ratio Lower Upper
88 100
43 23.9 21.0 31.6
58 46.8 38.0 57.0



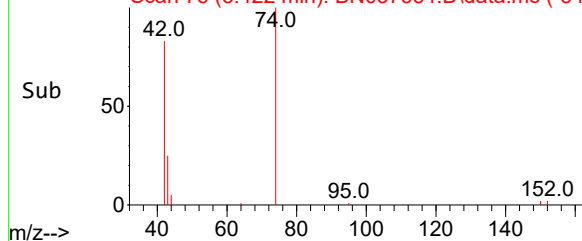
Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



Abundance Scan 75 (3.422 min): BN037354.D\data.ms



Abundance Scan 75 (3.422 min): BN037354.D\data.ms (-54)



#3

n-Nitrosodimethylamine

Concen: 0.191 ng

RT: 3.422 min Scan# 71

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion: 42 Resp: 366

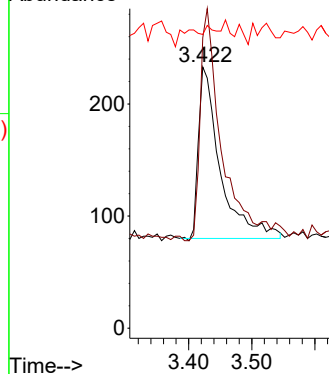
Ion Ratio Lower Upper

42 100

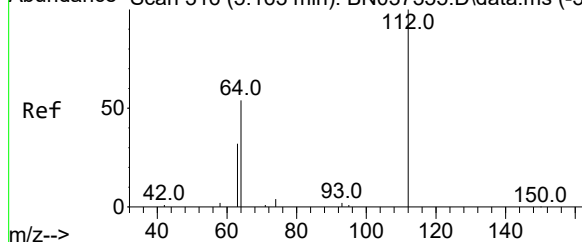
74 128.1 84.3 126.5#

44 2.5 5.0 7.4#

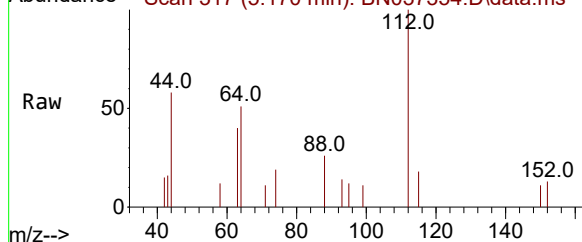
Abundance



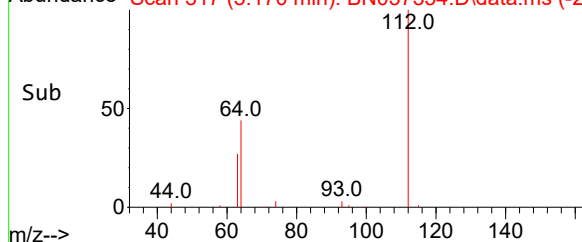
Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



Abundance Scan 317 (5.170 min): BN037354.D\data.ms



Abundance Scan 317 (5.170 min): BN037354.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.224 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.007 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Tgt Ion: 112 Resp: 763

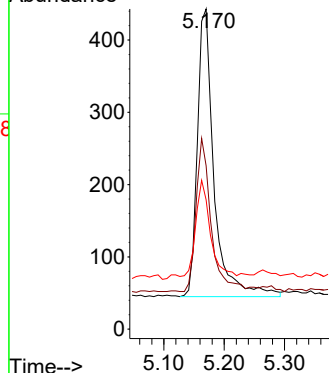
Ion Ratio Lower Upper

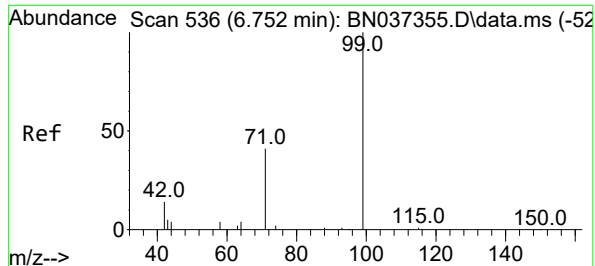
112 100

64 48.2 38.7 58.1

63 32.4 26.4 39.6

Abundance

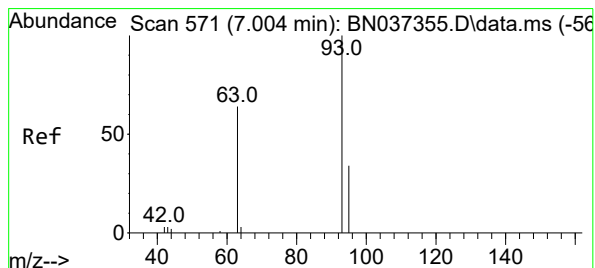
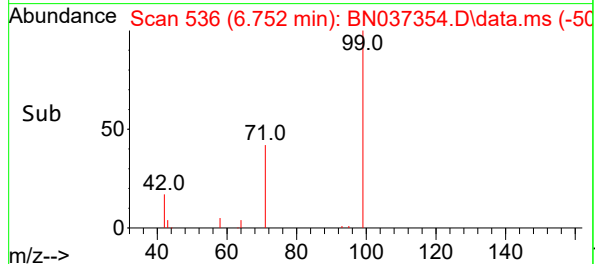
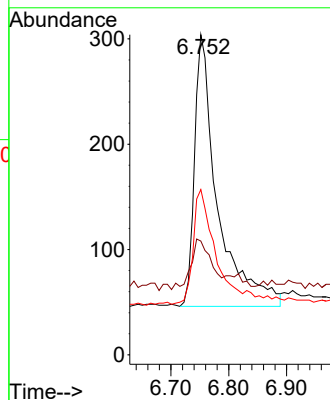
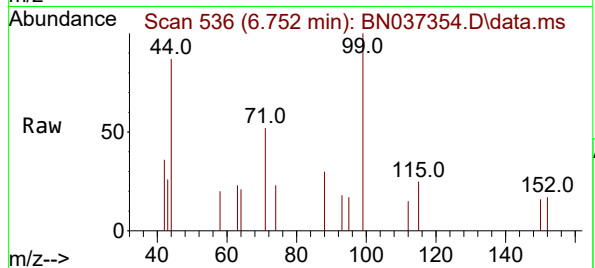




#5
Phenol-d6
Concen: 0.212 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

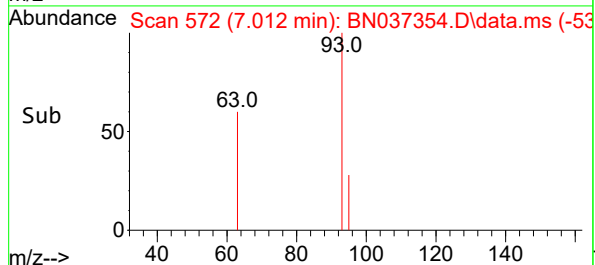
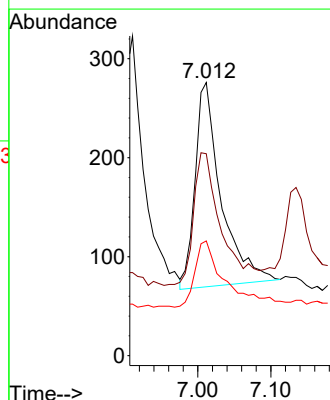
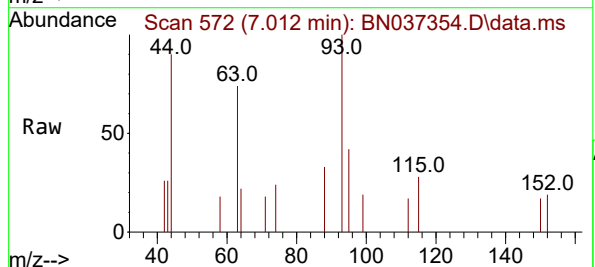
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

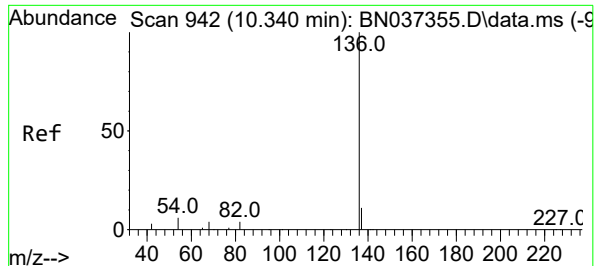
Tgt Ion: 99 Resp: 714
Ion Ratio Lower Upper
99 100
42 16.2 19.8 29.8#
71 44.0 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.172 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.007 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion: 93 Resp: 509
Ion Ratio Lower Upper
93 100
63 69.4 53.2 79.8
95 38.3 27.3 40.9

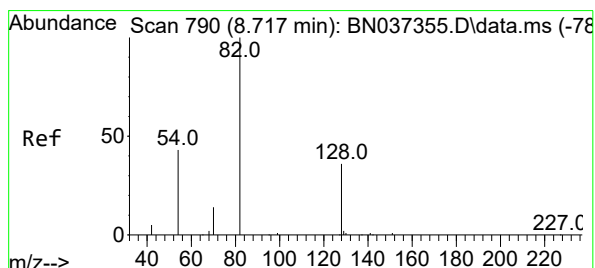
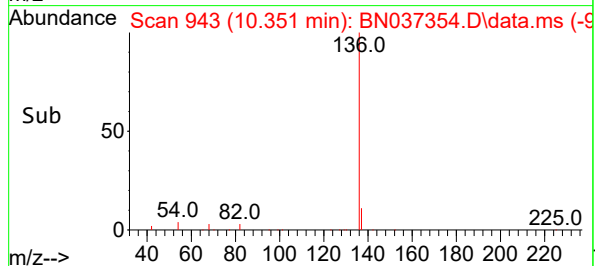
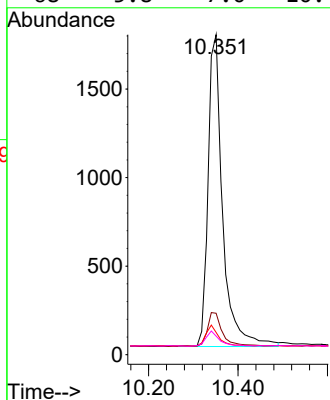
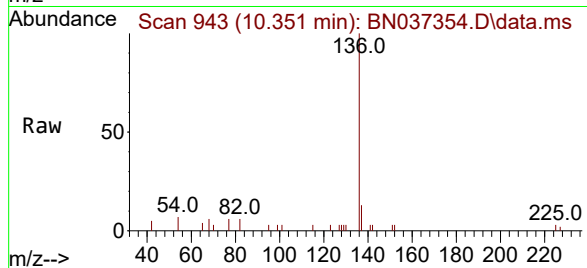




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

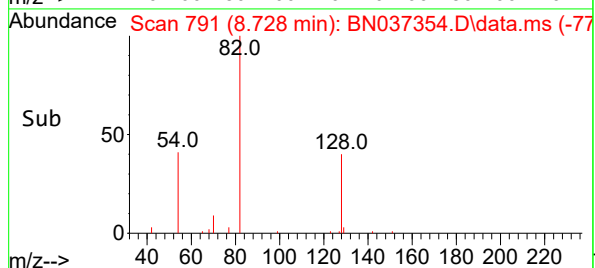
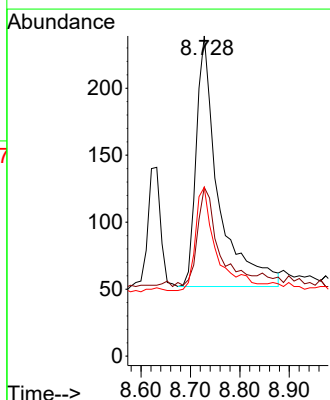
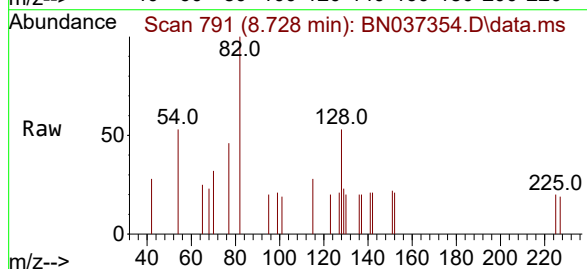
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

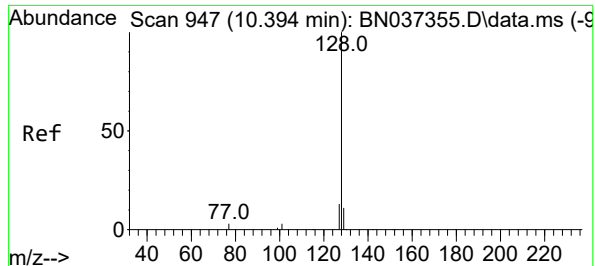
Tgt Ion:136 Resp: 3983
Ion Ratio Lower Upper
136 100
137 12.9 12.2 18.2
54 7.0 8.8 13.2#
68 5.8 7.0 10.4#



#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion: 82 Resp: 582
Ion Ratio Lower Upper
82 100
128 52.7 42.5 63.7
54 52.7 43.2 64.8

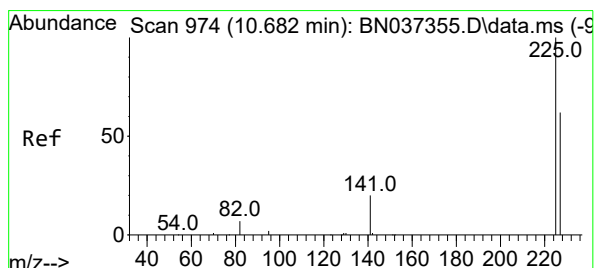
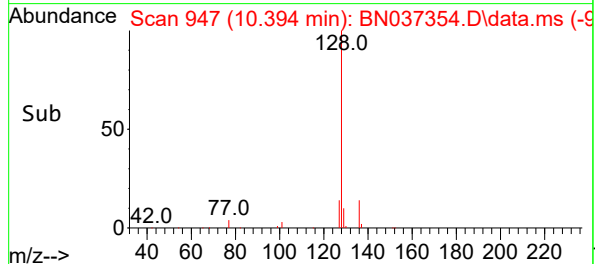
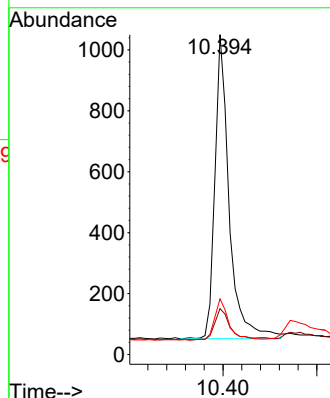
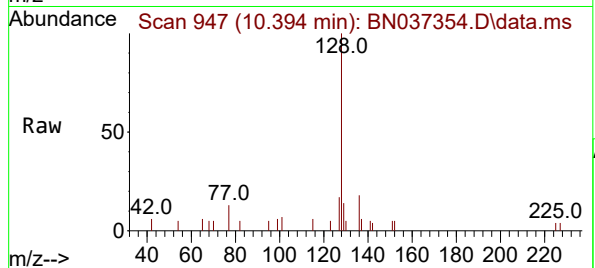




#9
Naphthalene
Concen: 0.204 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

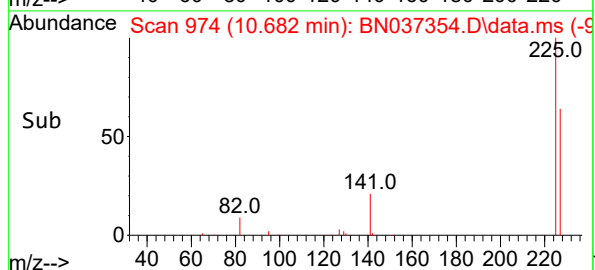
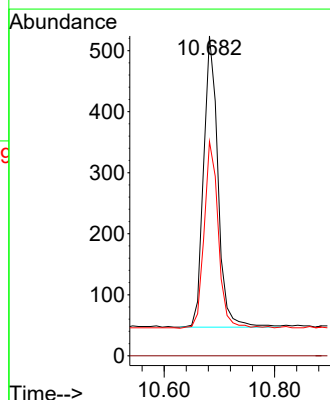
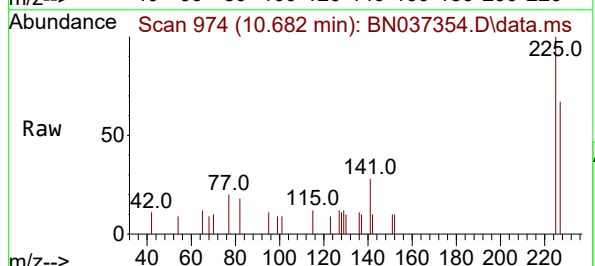
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

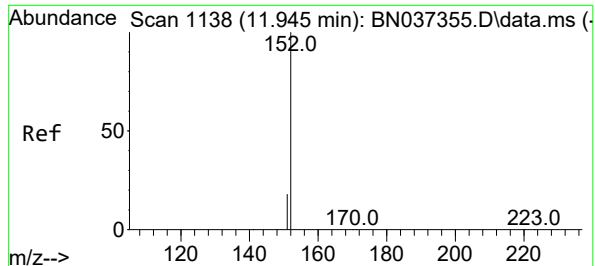
Tgt Ion	128	129	127
Resp:	2104		
Ion Ratio	100	14.4	17.4
Lower		14.0	15.8
Upper		21.0	23.8



#10
Hexachlorobutadiene
Concen: 0.171 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion	225	223	227
Resp:	864		
Ion Ratio	100	0.0	63.9
Lower		0.0	50.3
Upper		0.0	75.5

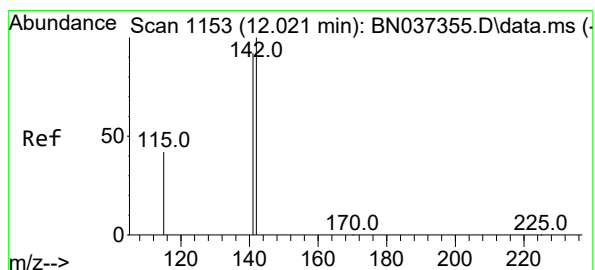
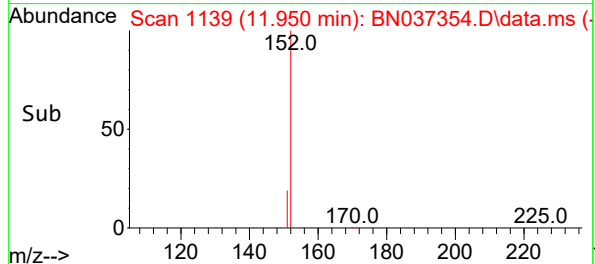
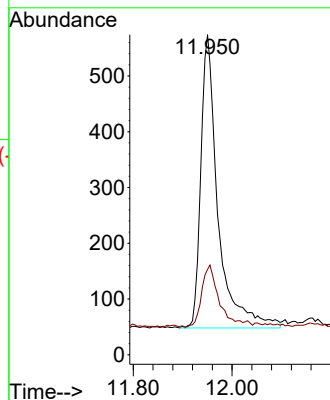
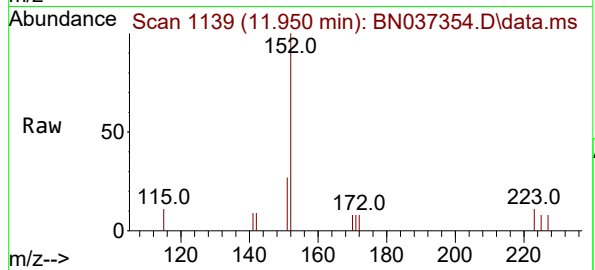




#11
2-Methylnaphthalene-d10
Concen: 0.197 ng
RT: 11.950 min Scan# 1139
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

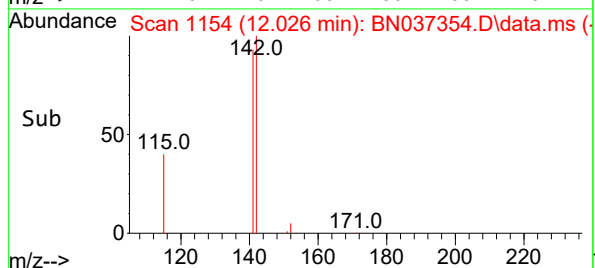
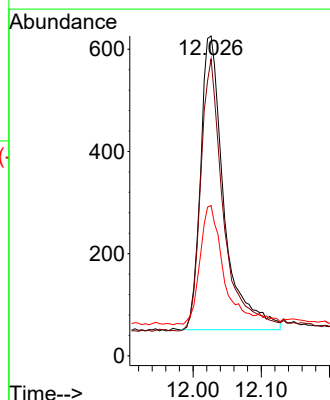
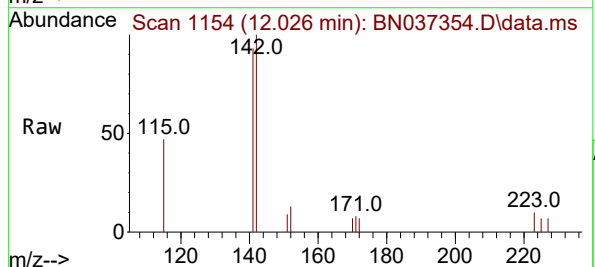
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

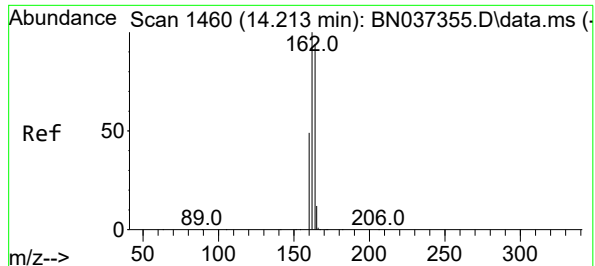
Tgt Ion:152 Resp: 1271
Ion Ratio Lower Upper
152 100
151 20.8 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.190 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:142 Resp: 1379
Ion Ratio Lower Upper
142 100
141 92.8 70.2 105.2
115 47.0 43.0 64.4

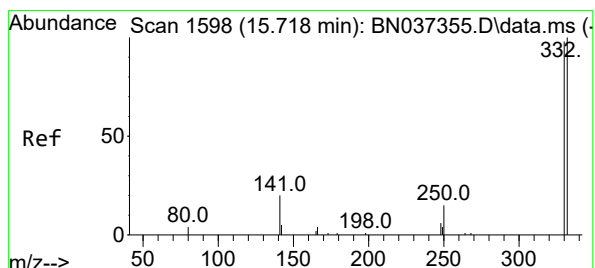
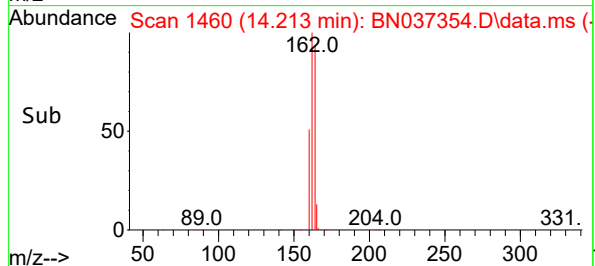
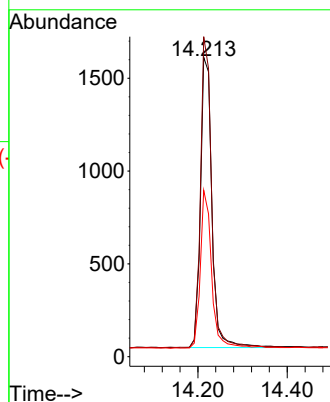
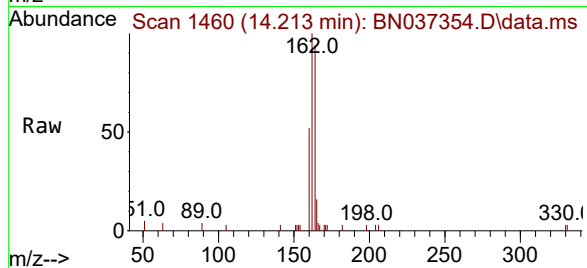




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

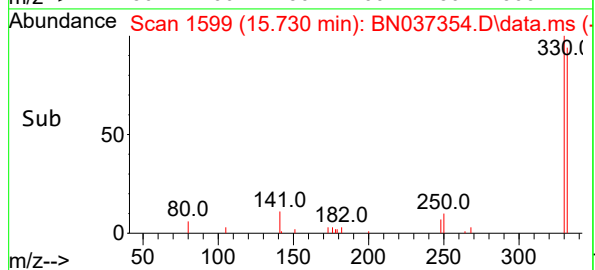
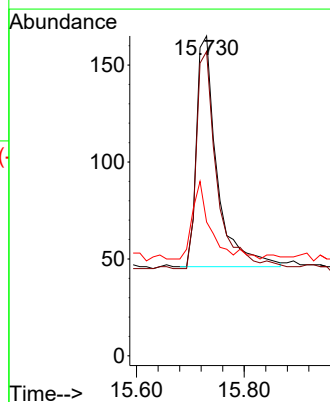
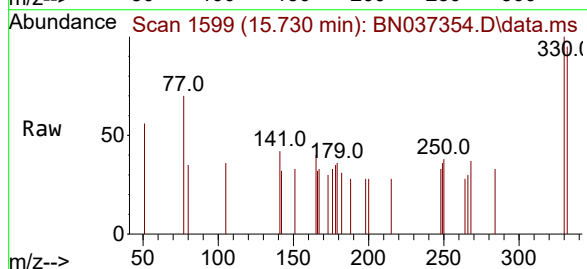
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

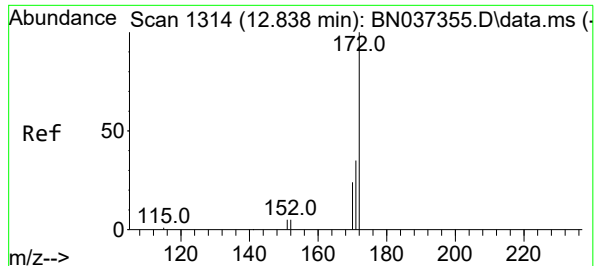
Tgt Ion:164 Resp: 2790
Ion Ratio Lower Upper
164 100
162 106.9 81.5 122.3
160 55.5 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.158 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:330 Resp: 315
Ion Ratio Lower Upper
330 100
332 94.6 78.4 117.6
141 31.1 24.4 36.6





#15

2-Fluorobiphenyl

Concen: 0.191 ng

RT: 12.843 min Scan# 1315

Delta R.T. 0.005 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

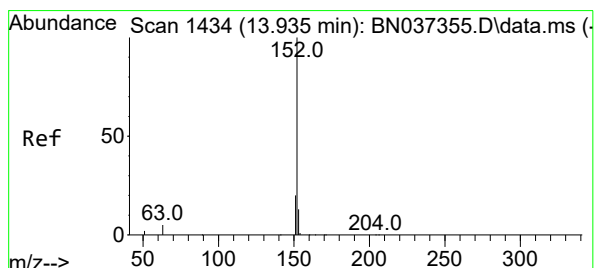
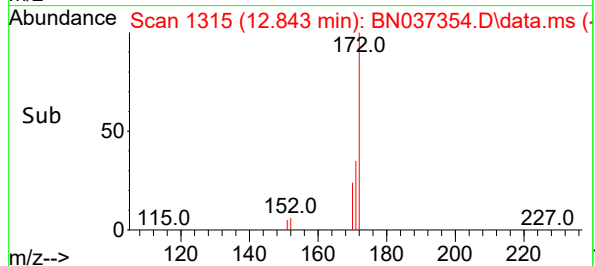
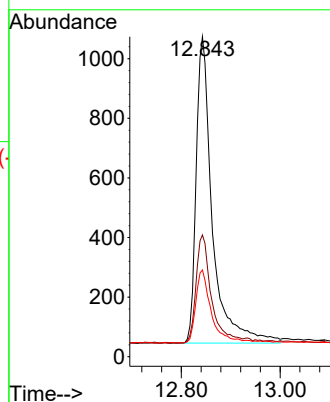
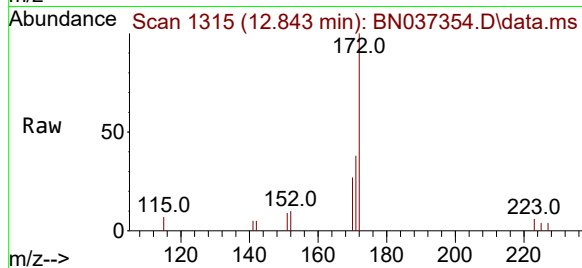
Tgt Ion:172 Resp: 2337

Ion Ratio Lower Upper

172 100

171 38.1 30.8 46.2

170 27.1 21.9 32.9



#16

Acenaphthylene

Concen: 0.195 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

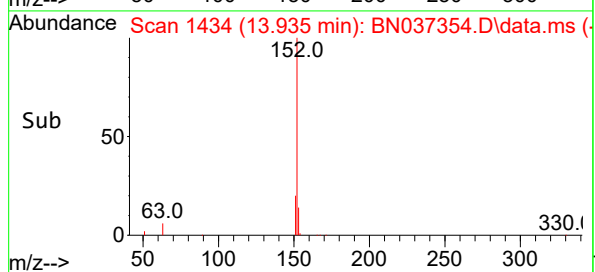
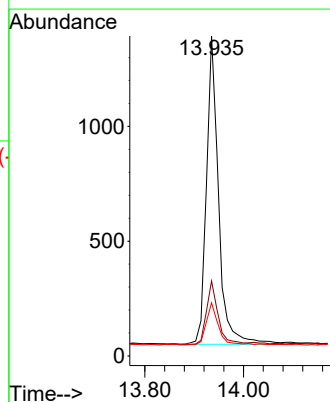
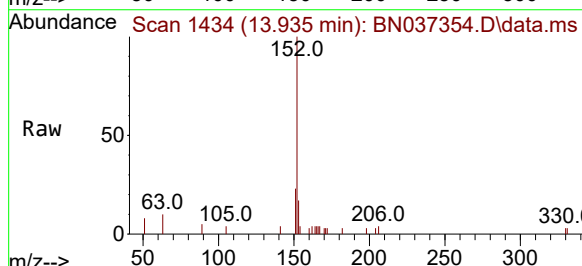
Tgt Ion:152 Resp: 2282

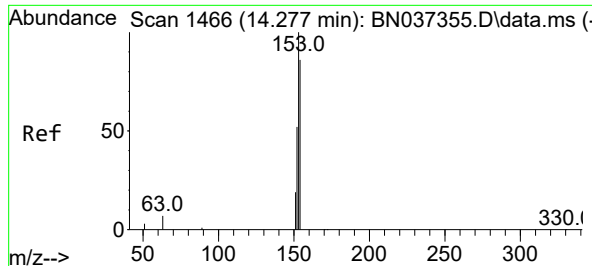
Ion Ratio Lower Upper

152 100

151 19.8 16.6 24.8

153 14.1 10.2 15.2

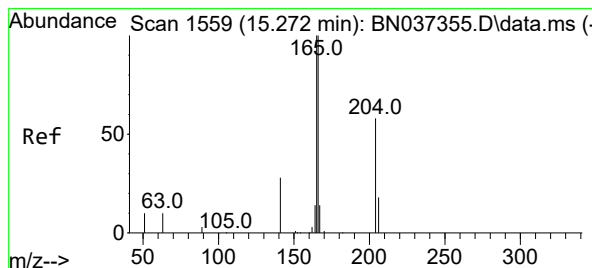
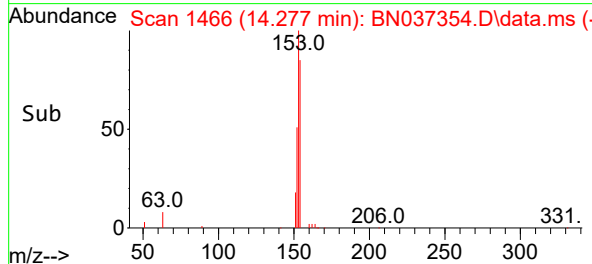
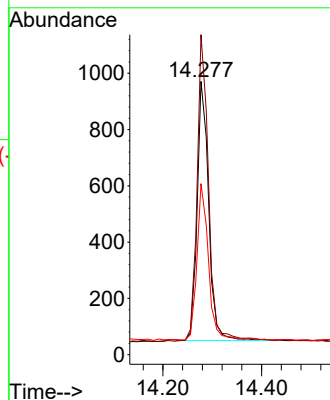
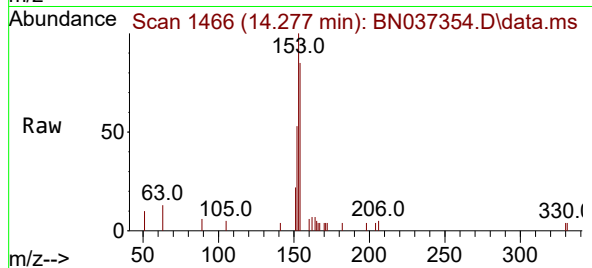




#17
Acenaphthene
Concen: 0.192 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

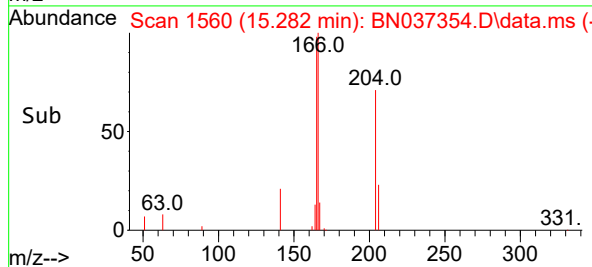
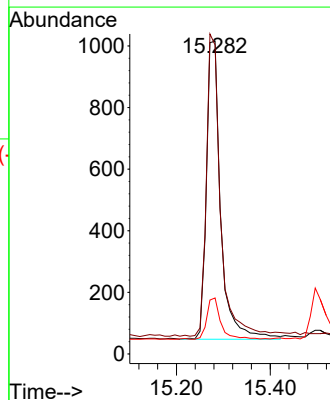
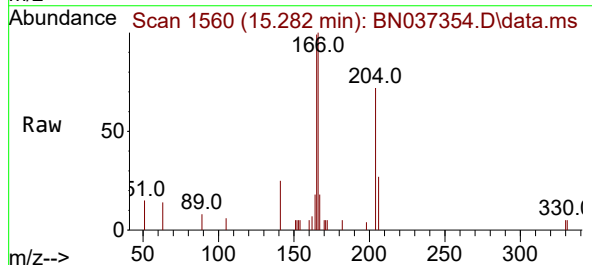
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

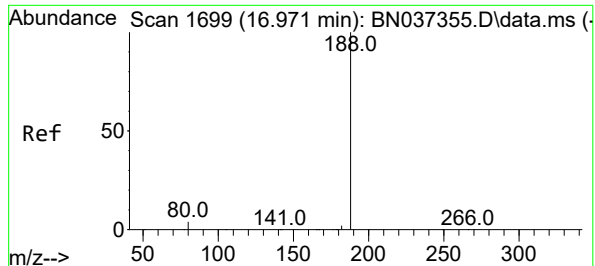
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.3	93.1	139.7
152	60.7	48.6	73.0



#18
Fluorene
Concen: 0.186 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.9	79.5	119.3
167	13.3	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

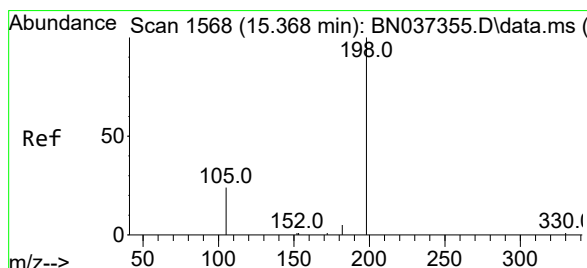
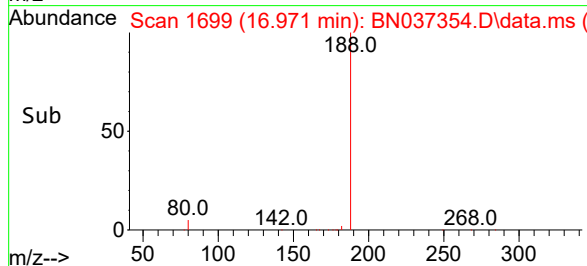
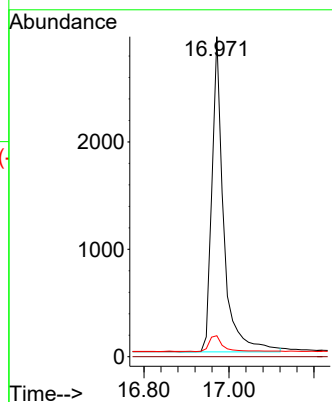
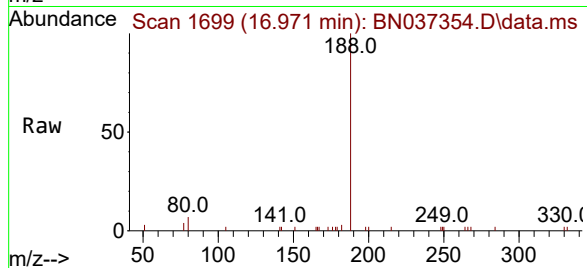
Tgt Ion:188 Resp: 5628

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.5 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.115 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

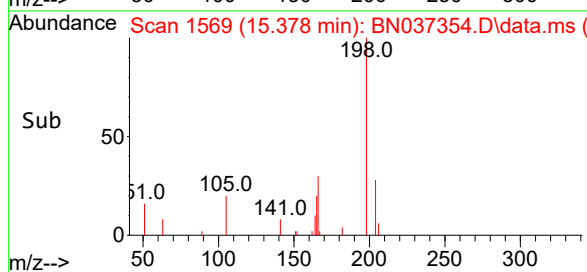
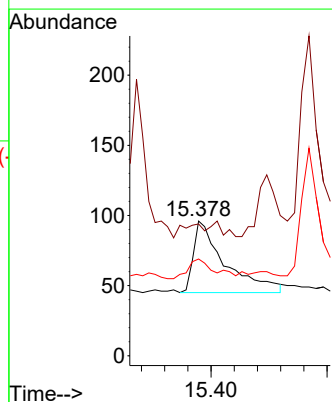
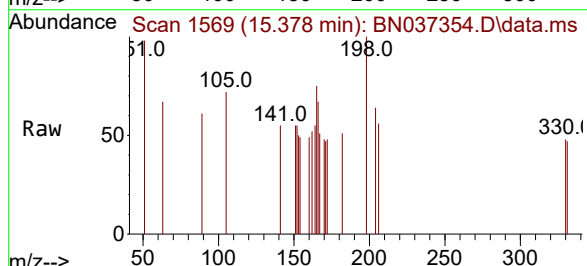
Tgt Ion:198 Resp: 196

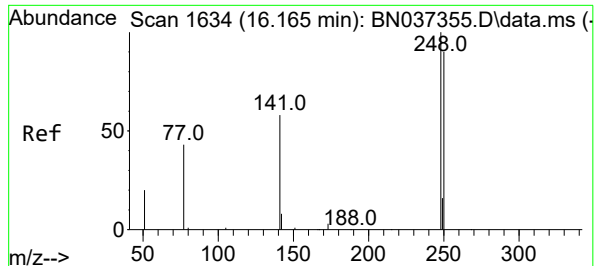
Ion Ratio Lower Upper

198 100

51 97.9 51.4 77.0#

105 71.9 45.5 68.3#

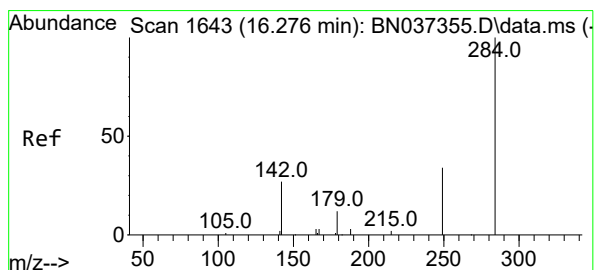
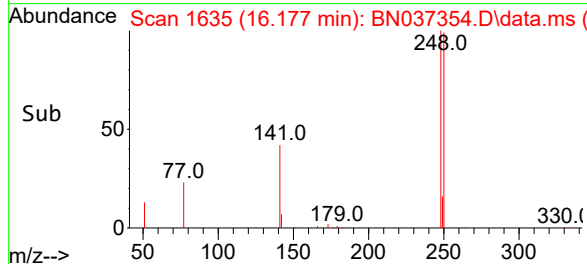
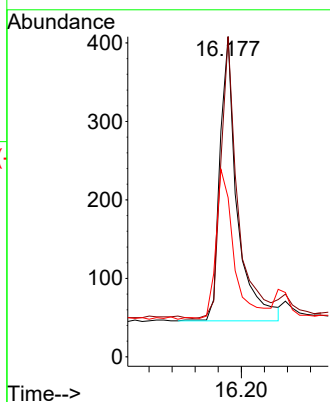
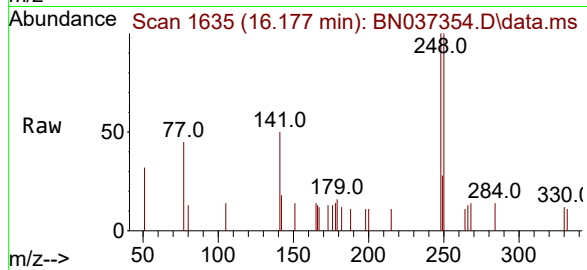




#21
4-Bromophenyl-phenylether
Concen: 0.163 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

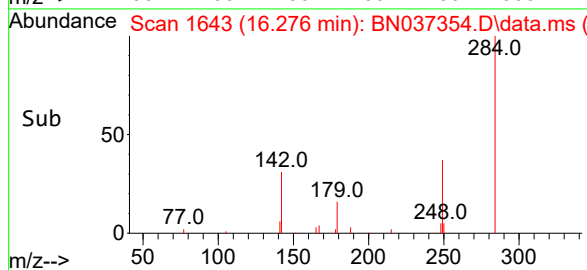
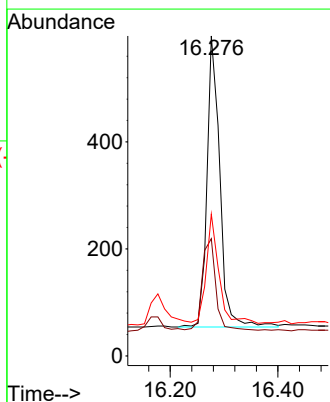
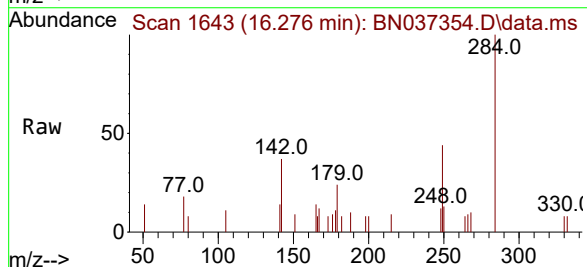
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

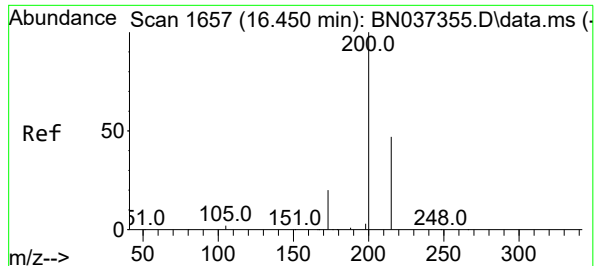
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.0	80.4	120.6
141	49.8	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.187 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.4	27.0	40.6
249	37.8	28.8	43.2

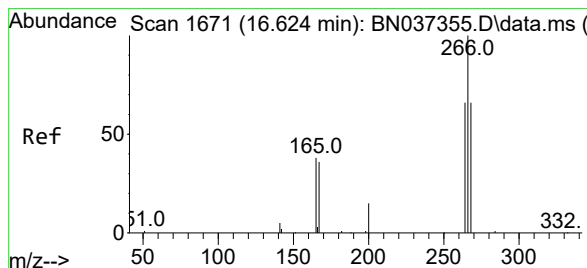
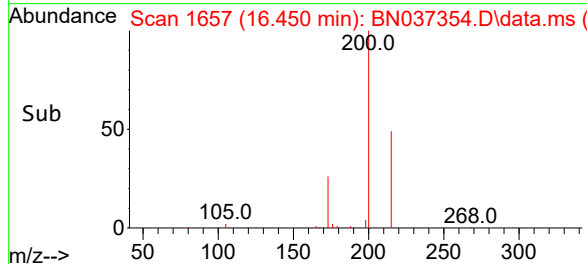
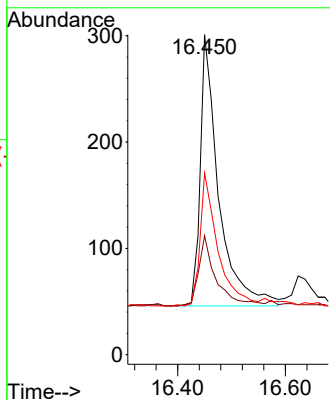
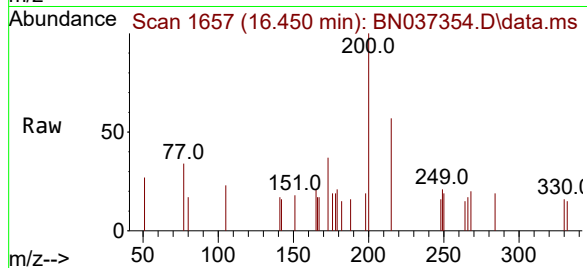




#23
Atrazine
Concen: 0.168 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

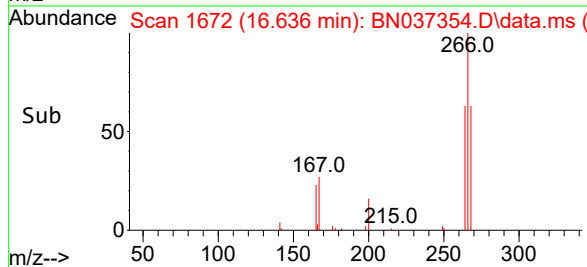
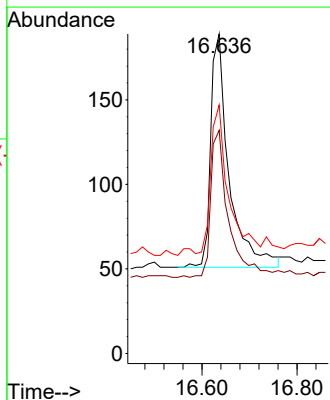
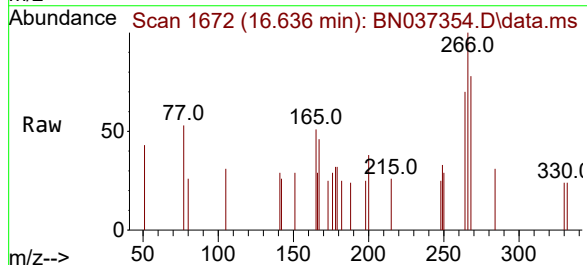
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

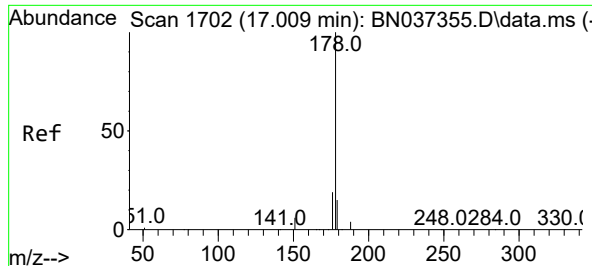
Tgt Ion	Ratio	Lower	Upper
200	100		
173	37.2	29.2	43.8
215	56.8	48.8	73.2



#24
Pentachlorophenol
Concen: 0.140 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.012 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.2	50.3	75.5
268	65.3	55.3	82.9

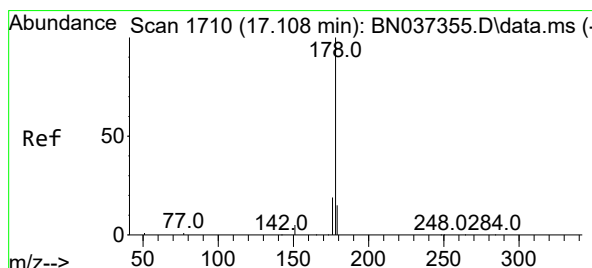
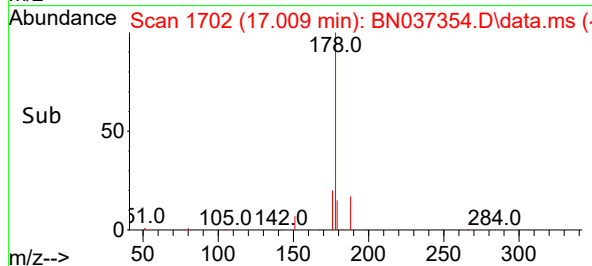
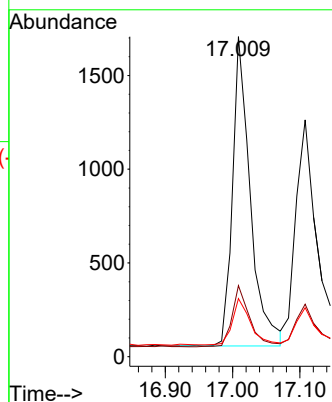
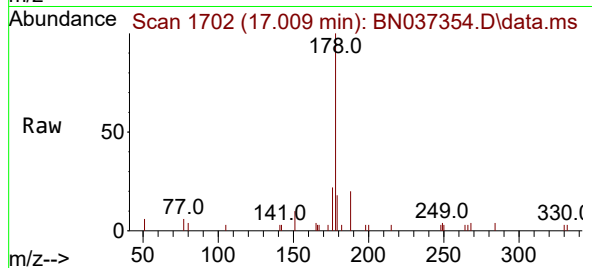




#25
Phenanthrene
Concen: 0.190 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

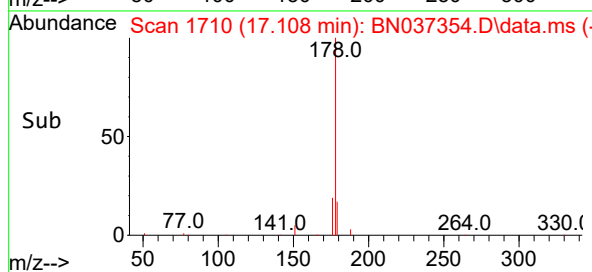
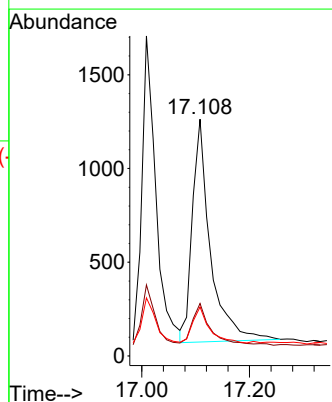
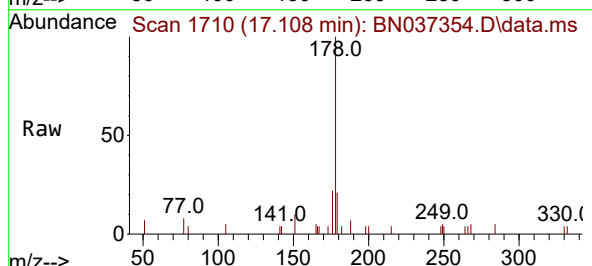
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

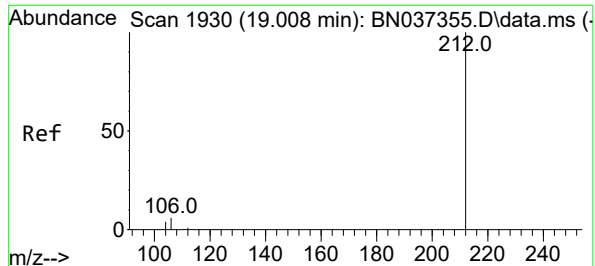
Tgt Ion:178 Resp: 3024
Ion Ratio Lower Upper
178 100
176 19.6 15.2 22.8
179 15.3 12.9 19.3



#26
Anthracene
Concen: 0.186 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:178 Resp: 2769
Ion Ratio Lower Upper
178 100
176 19.7 14.7 22.1
179 15.0 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.172 ng

RT: 19.008 min Scan# 1930

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

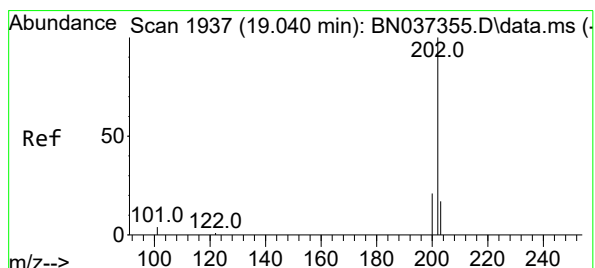
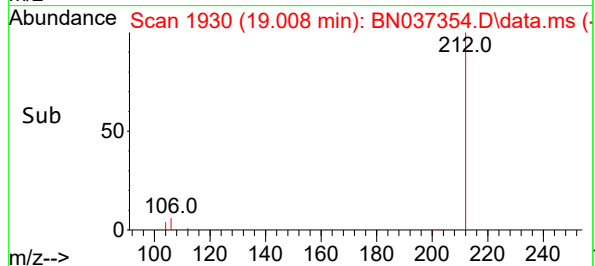
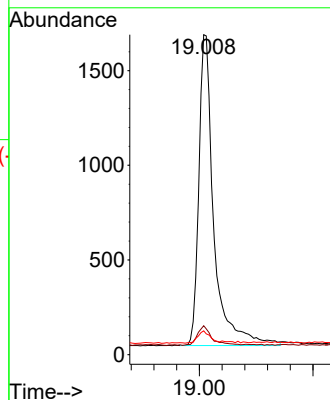
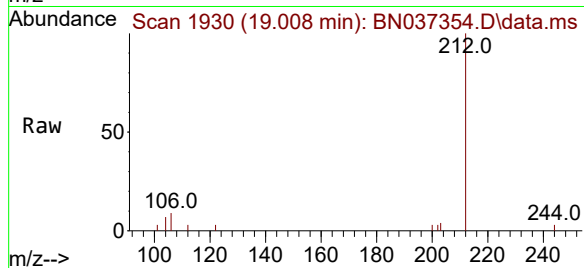
Tgt Ion:212 Resp: 3010

Ion Ratio Lower Upper

212 100

106 6.0 3.0 4.4#

104 3.2 2.0 3.0#



#28

Fluoranthene

Concen: 0.174 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

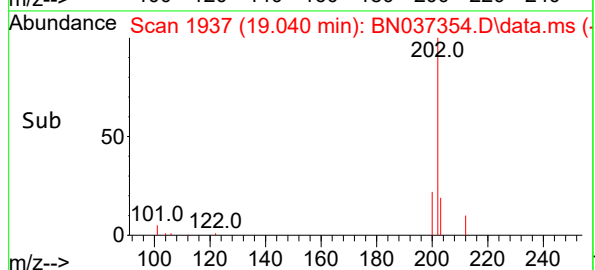
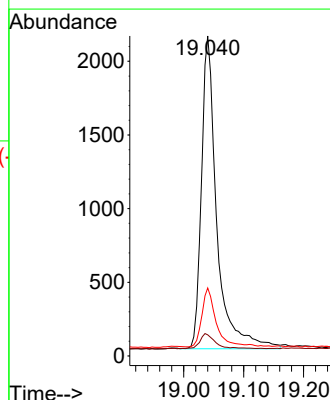
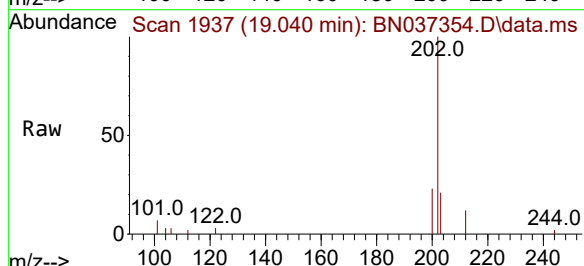
Tgt Ion:202 Resp: 3780

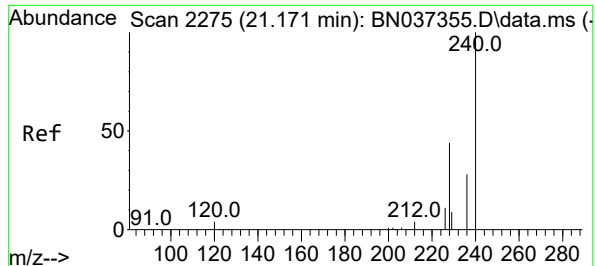
Ion Ratio Lower Upper

202 100

101 4.7 3.0 4.6#

203 17.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

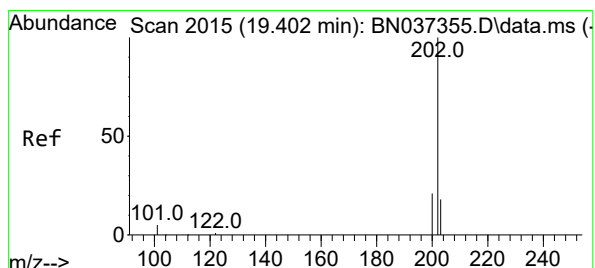
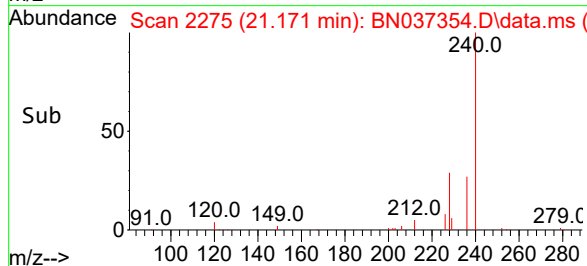
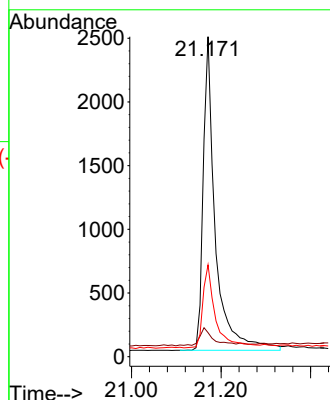
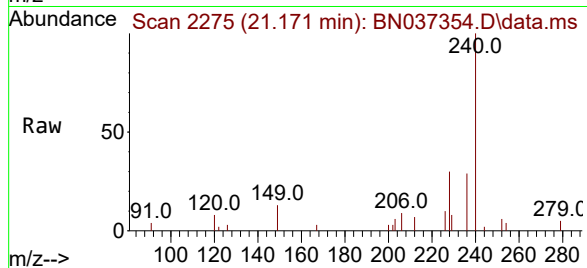
Tgt Ion:240 Resp: 4640

Ion Ratio Lower Upper

240 100

120 7.5 7.5 11.3

236 28.7 24.9 37.3



#30

Pyrene

Concen: 0.221 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

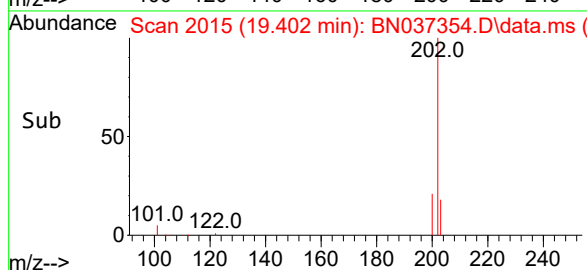
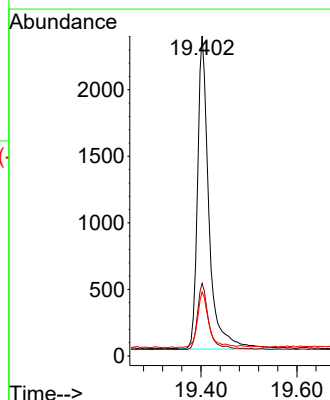
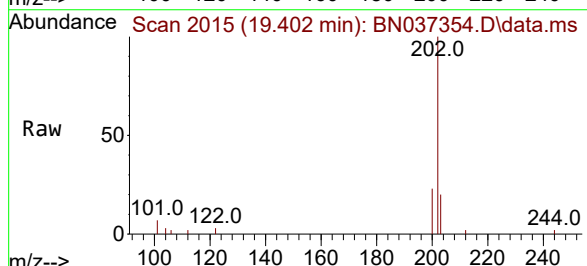
Tgt Ion:202 Resp: 3921

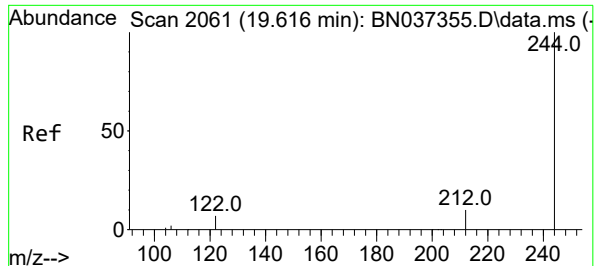
Ion Ratio Lower Upper

202 100

200 20.4 16.8 25.2

203 17.9 14.5 21.7

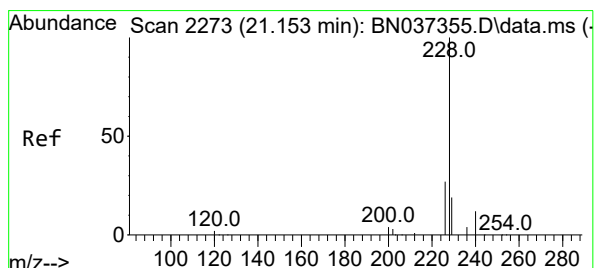
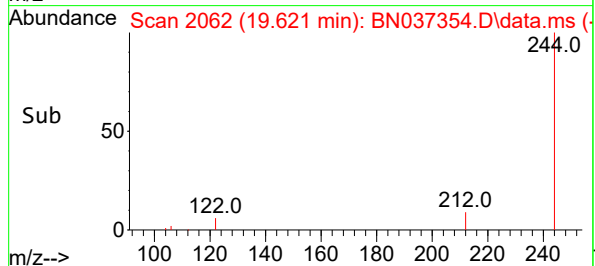
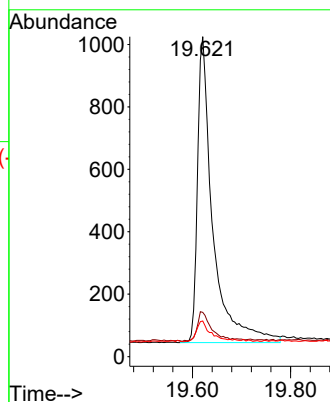
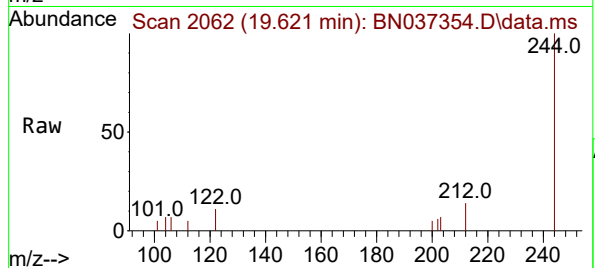




#31
Terphenyl-d14
Concen: 0.200 ng
RT: 19.621 min Scan# 2062
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

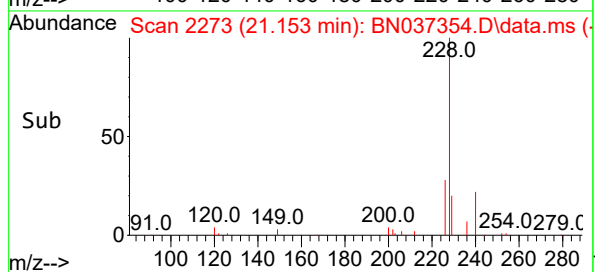
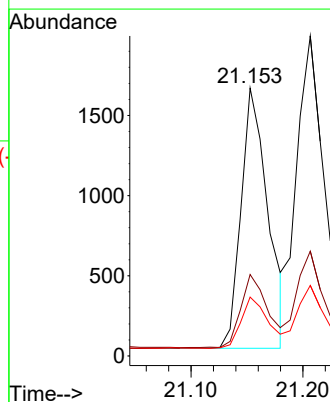
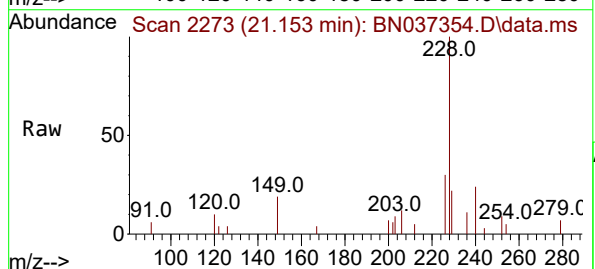
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

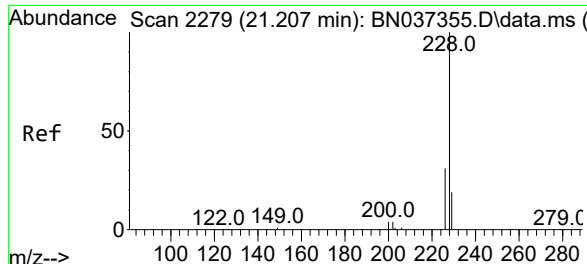
Tgt Ion:244 Resp: 2114
Ion Ratio Lower Upper
244 100
212 13.9 11.1 16.7
122 11.1 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 0.181 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:228 Resp: 2710
Ion Ratio Lower Upper
228 100
226 30.4 23.0 34.4
229 22.0 17.4 26.0





#33

Chrysene

Concen: 0.208 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

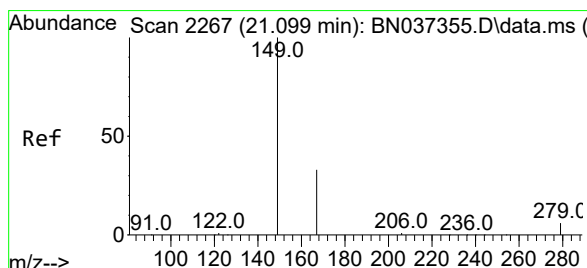
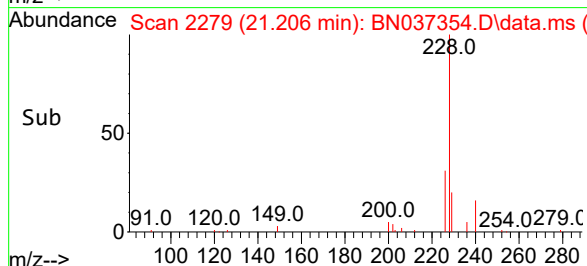
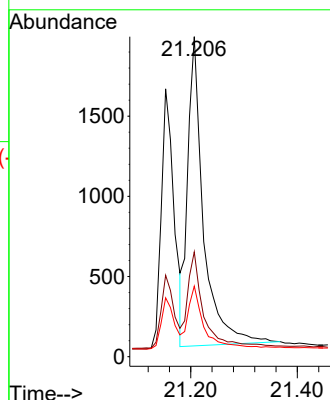
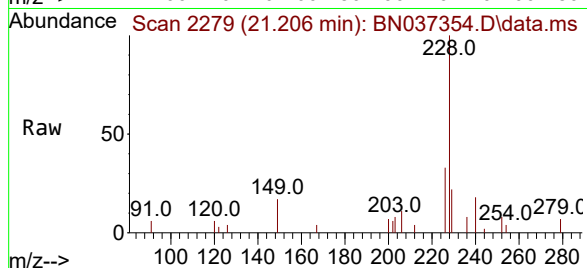
Tgt Ion:228 Resp: 3959

Ion Ratio Lower Upper

228 100

226 32.8 25.4 38.2

229 22.0 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.229 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

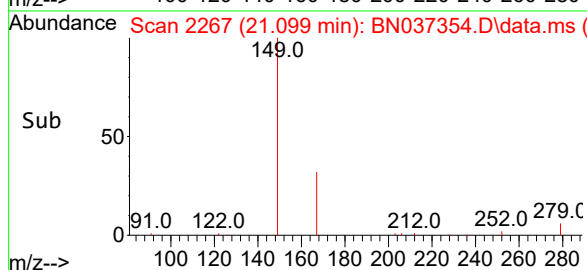
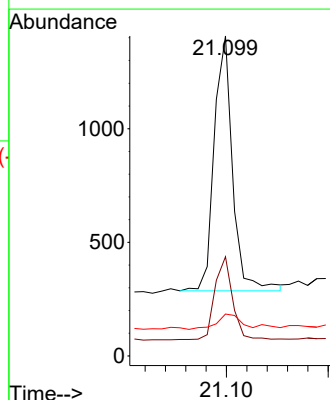
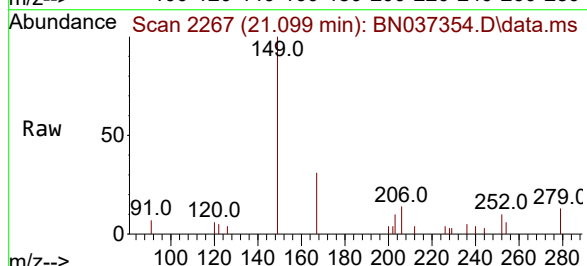
Tgt Ion:149 Resp: 1406

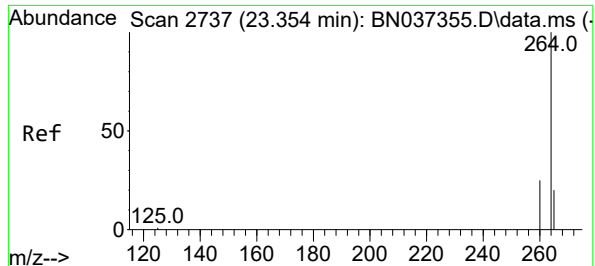
Ion Ratio Lower Upper

149 100

167 31.8 24.6 37.0

279 7.7 6.5 9.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

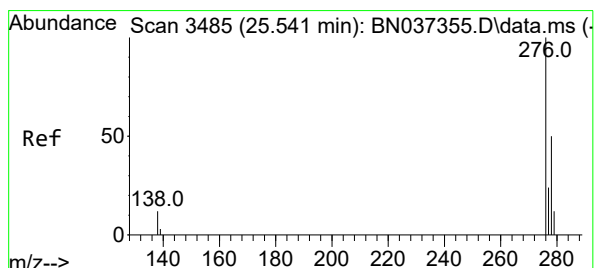
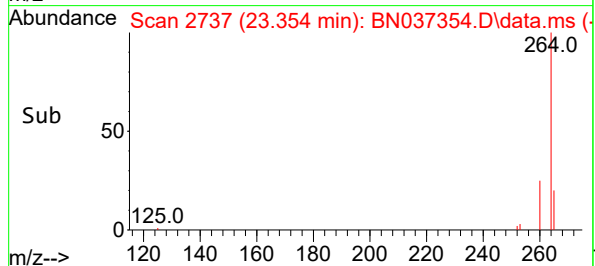
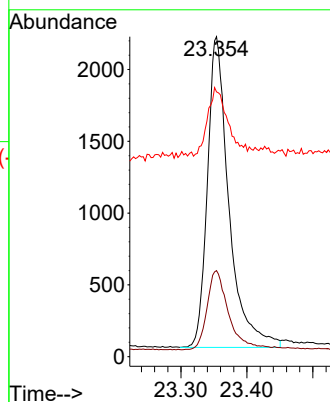
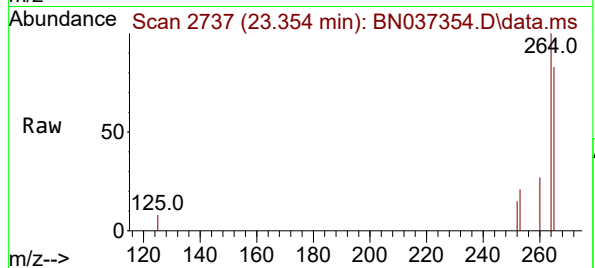
Tgt Ion:264 Resp: 4914

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.2

265 82.7 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.202 ng

RT: 25.547 min Scan# 3487

Delta R.T. 0.006 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

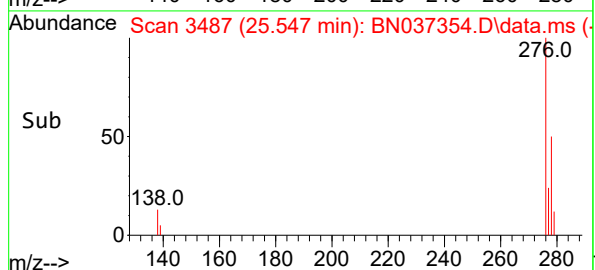
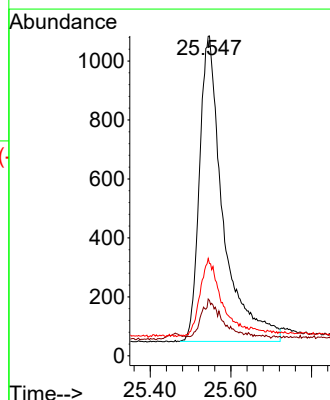
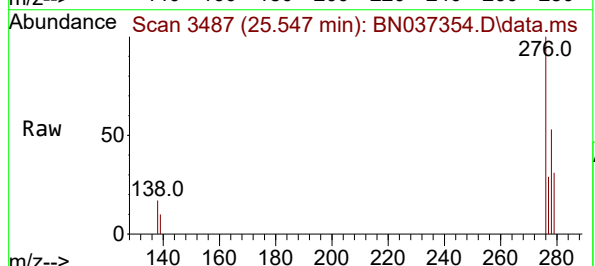
Tgt Ion:276 Resp: 4213

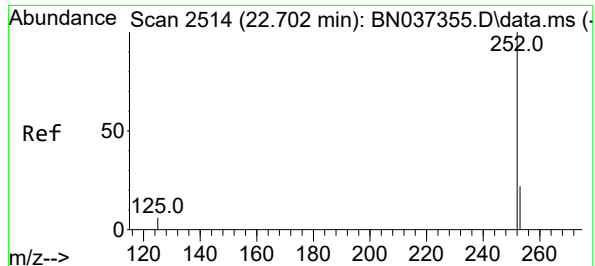
Ion Ratio Lower Upper

276 100

138 9.1 2.2 3.2#

277 22.8 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.195 ng

RT: 22.702 min Scan# 2514

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

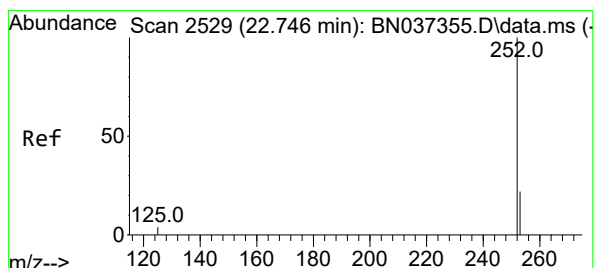
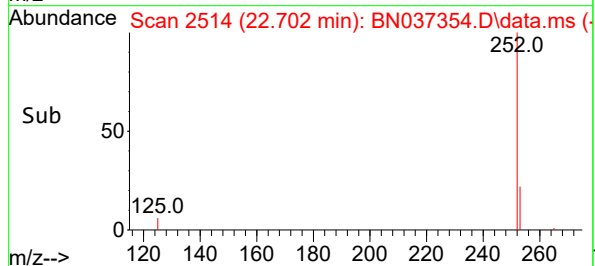
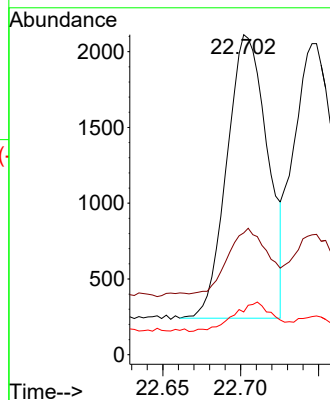
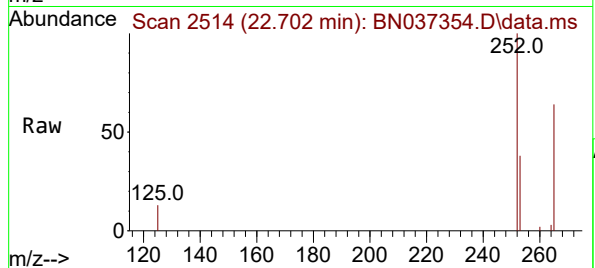
Tgt Ion:252 Resp: 3390

Ion Ratio Lower Upper

252 100

253 38.1 26.6 40.0

125 13.4 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.207 ng

RT: 22.746 min Scan# 2529

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

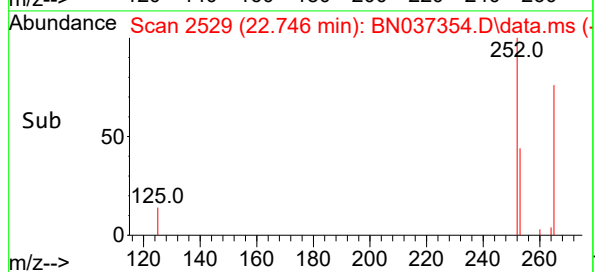
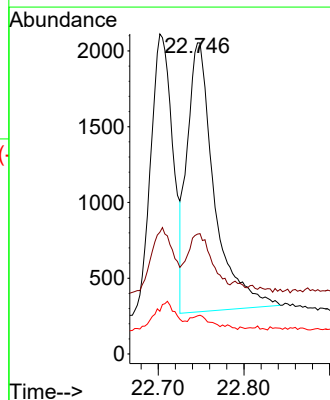
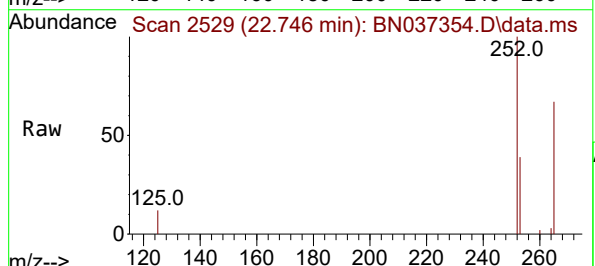
Tgt Ion:252 Resp: 3913

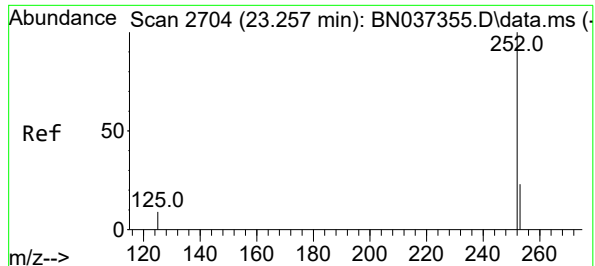
Ion Ratio Lower Upper

252 100

253 38.5 26.7 40.1

125 12.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.193 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037354.D

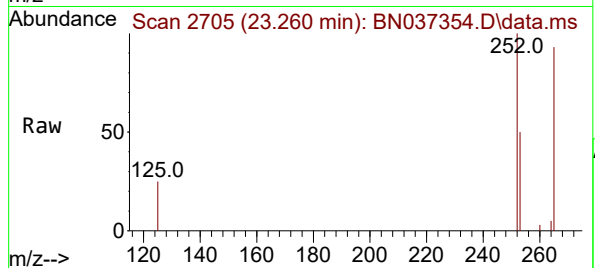
Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



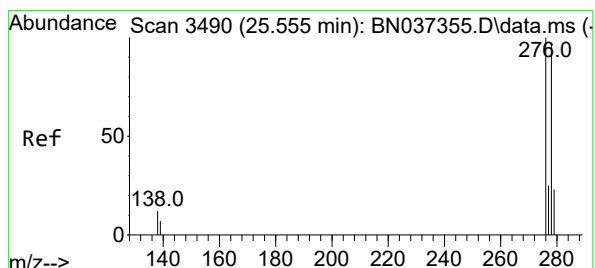
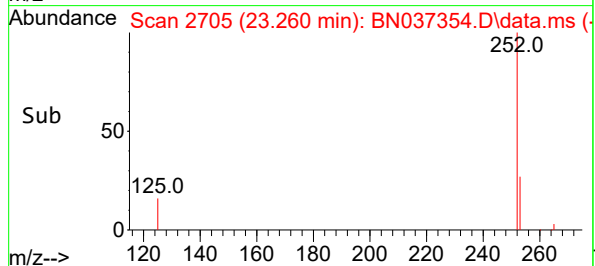
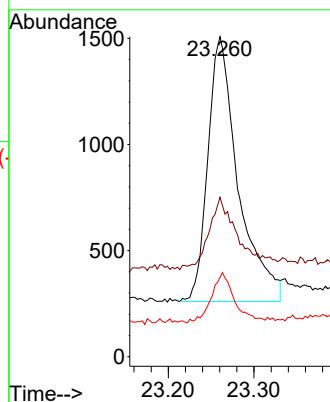
Tgt Ion:252 Resp: 3070

Ion Ratio Lower Upper

252 100

253 49.8 31.6 47.4#

125 24.8 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

RT: 25.564 min Scan# 3493

Delta R.T. 0.009 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

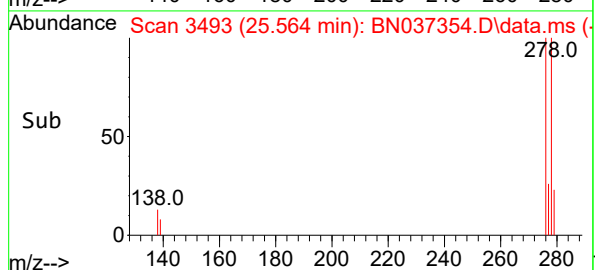
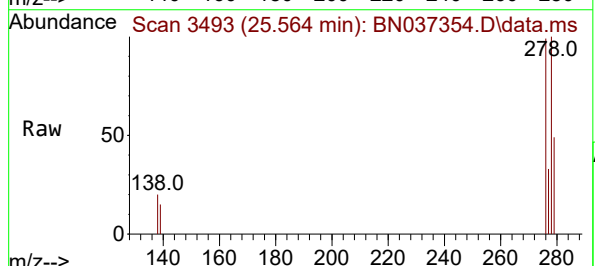
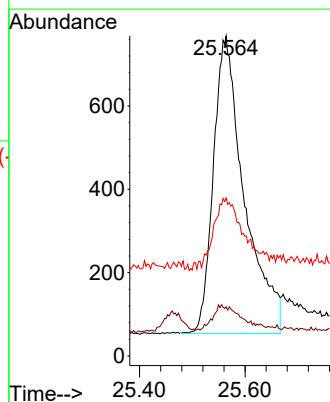
Tgt Ion:278 Resp: 2911

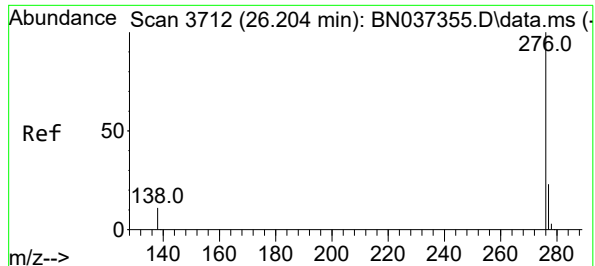
Ion Ratio Lower Upper

278 100

139 15.4 10.2 15.4#

279 49.3 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.200 ng

RT: 26.207 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037354.D

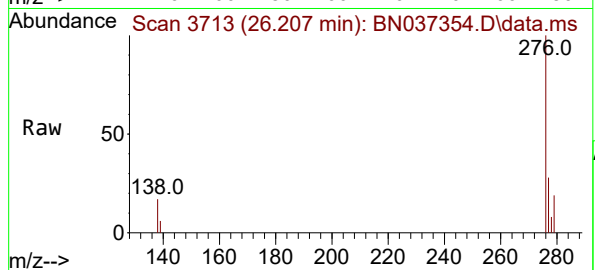
Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



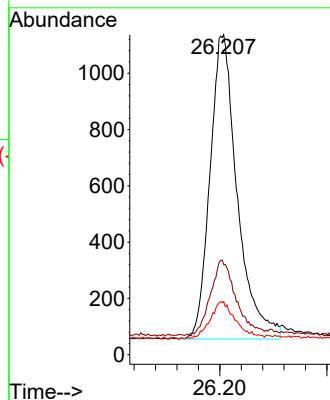
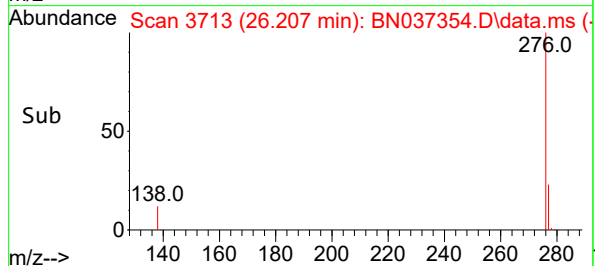
Tgt Ion:276 Resp: 3819

Ion Ratio Lower Upper

276 100

277 28.1 22.7 34.1

138 16.6 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037355.D
 Acq On : 20 Jun 2025 18:03
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 20 23:26:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

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

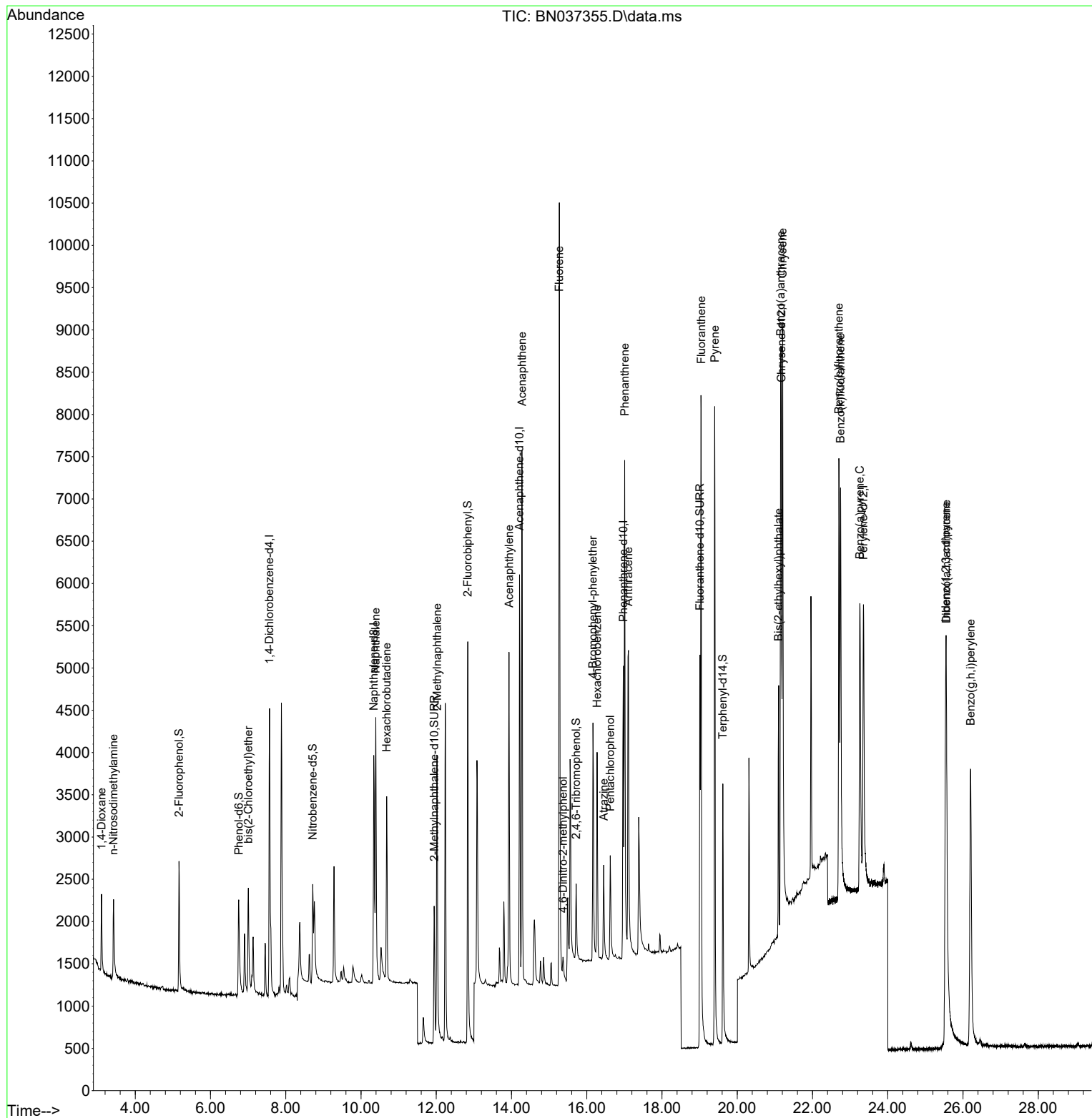
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1912	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4157	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2811	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5776	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	4813	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	4943	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1436	0.411	ng	0.00
5) Phenol-d6	6.752	99	1465	0.424	ng	0.00
8) Nitrobenzene-d5	8.717	82	1327	0.385	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2768	0.411	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	646	0.321	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4996	0.405	ng	0.00
27) Fluoranthene-d10	19.008	212	6705	0.373	ng	0.00
31) Terphenyl-d14	19.616	244	4452	0.405	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	745	0.441	ng	94
3) n-Nitrosodimethylamine	3.422	42	754	0.383	ng	81
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.446	ng	94
9) Naphthalene	10.394	128	4347	0.403	ng	# 89
10) Hexachlorobutadiene	10.682	225	1832	0.348	ng	# 99
12) 2-Methylnaphthalene	12.021	142	2957	0.390	ng	92
16) Acenaphthylene	13.935	152	4490	0.381	ng	99
17) Acenaphthene	14.277	154	2983	0.381	ng	98
18) Fluorene	15.272	166	4232	0.382	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	459	0.263	ng	89
21) 4-Bromophenyl-phenylether	16.165	248	1611	0.342	ng	# 85
22) Hexachlorobenzene	16.276	284	1814	0.369	ng	98
23) Atrazine	16.450	200	1262	0.342	ng	# 85
24) Pentachlorophenol	16.624	266	792	0.293	ng	98
25) Phenanthrene	17.009	178	6374	0.391	ng	99
26) Anthracene	17.108	178	5717	0.375	ng	98
28) Fluoranthene	19.040	202	7896	0.354	ng	# 98
30) Pyrene	19.402	202	7990	0.434	ng	100
32) Benzo(a)anthracene	21.153	228	5851	0.377	ng	98
33) Chrysene	21.207	228	7754	0.394	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	2603	0.409	ng	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	8379	0.400	ng	# 93
37) Benzo(b)fluoranthene	22.702	252	7138m	0.407	ng	
38) Benzo(k)fluoranthene	22.746	252	7755	0.407	ng	95
39) Benzo(a)pyrene	23.257	252	6298	0.393	ng	# 92
40) Dibenzo(a,h)anthracene	25.555	278	6108	0.366	ng	# 88
41) Benzo(g,h,i)perylene	26.204	276	7852	0.408	ng	95

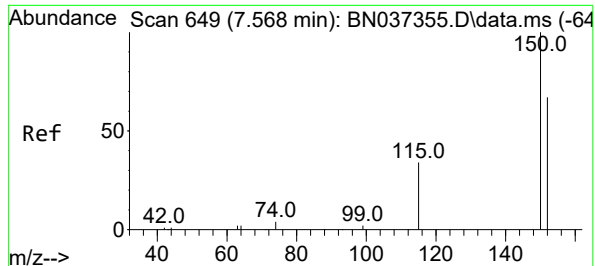
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037355.D
Acq On : 20 Jun 2025 18:03
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 20 23:26:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

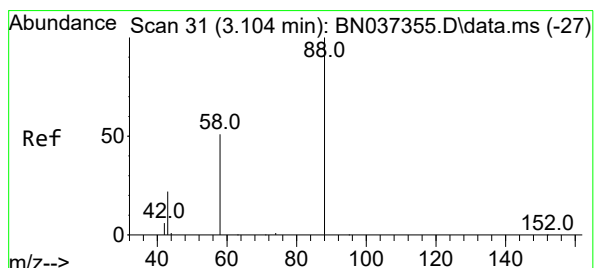
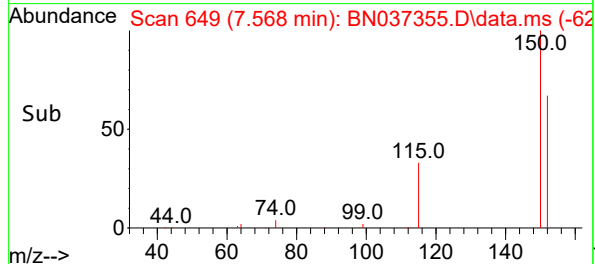
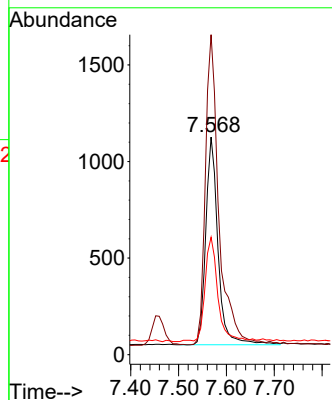
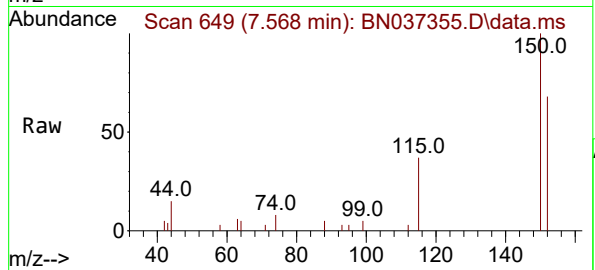




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

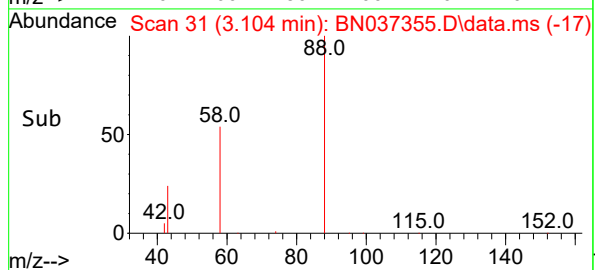
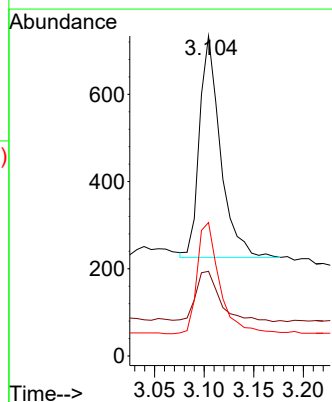
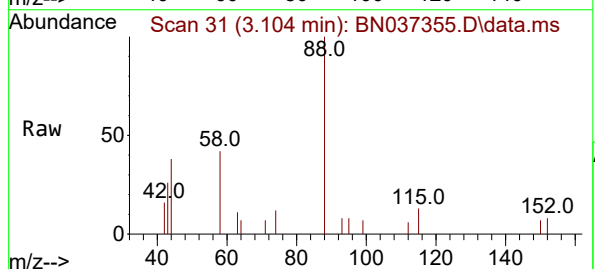
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

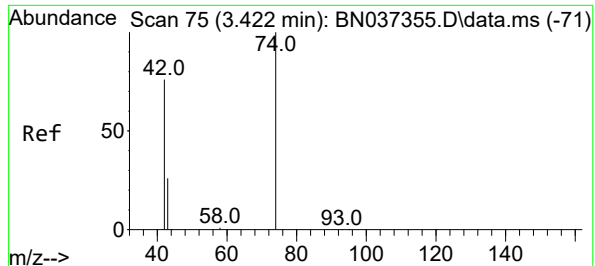
Tgt Ion:152 Resp: 1912
Ion Ratio Lower Upper
152 100
150 147.0 112.7 169.1
115 53.9 45.9 68.9



#2
1,4-Dioxane
Concen: 0.441 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 88 Resp: 745
Ion Ratio Lower Upper
88 100
43 26.3 21.0 31.6
58 54.1 38.0 57.0

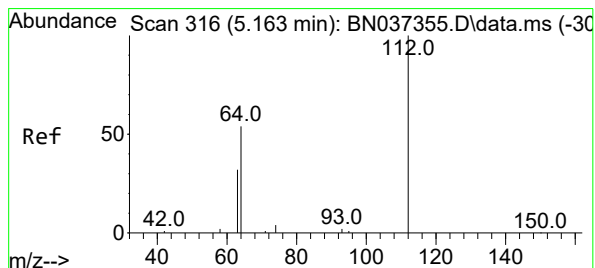
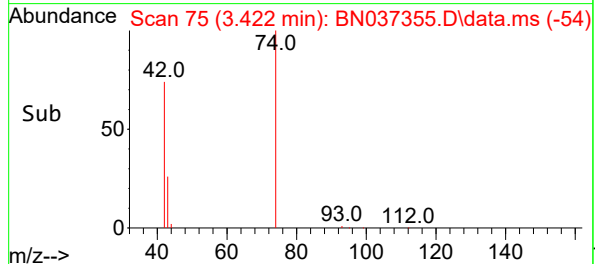
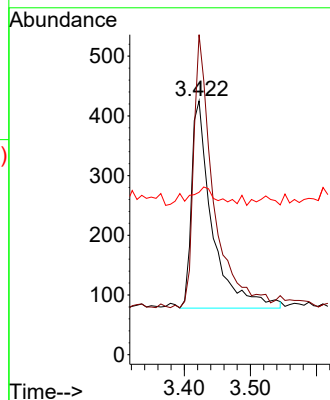
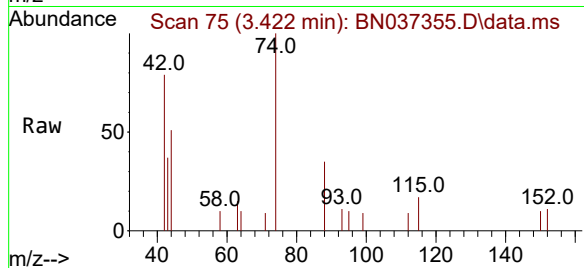




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

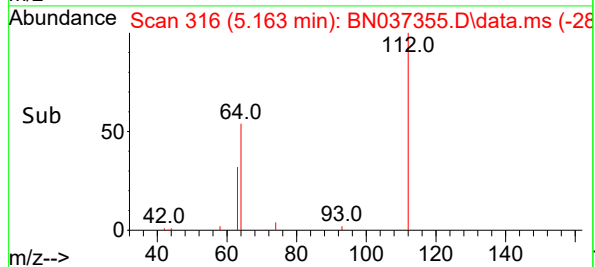
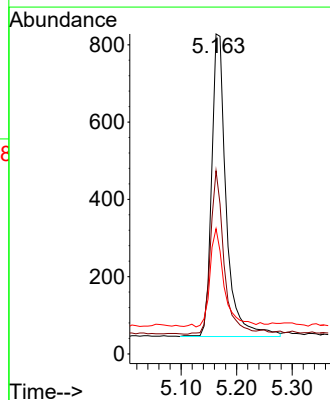
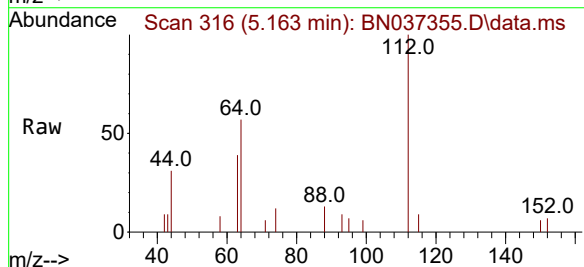
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

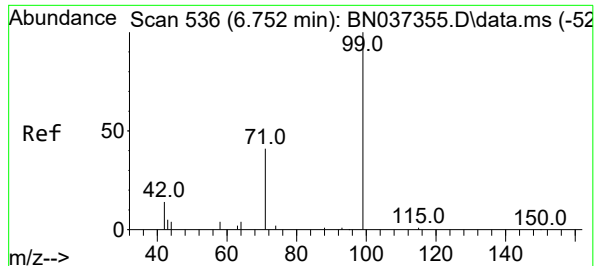
Tgt Ion: 42 Resp: 754
Ion Ratio Lower Upper
42 100
74 126.4 84.3 126.5
44 5.7 5.0 7.4



#4
2-Fluorophenol
Concen: 0.411 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 112 Resp: 1436
Ion Ratio Lower Upper
112 100
64 49.6 38.7 58.1
63 31.1 26.4 39.6

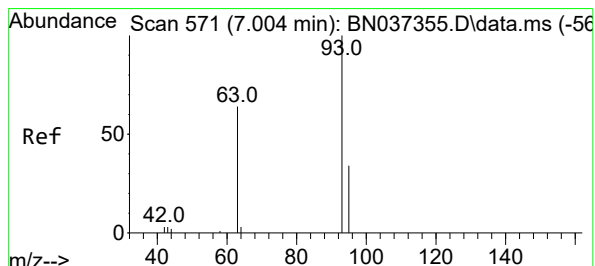
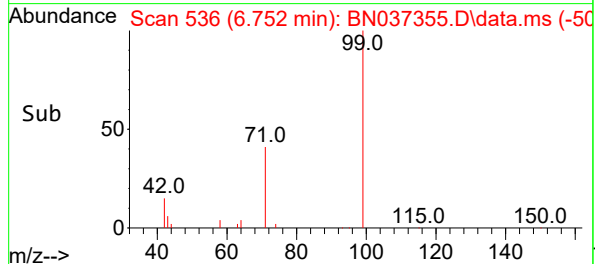
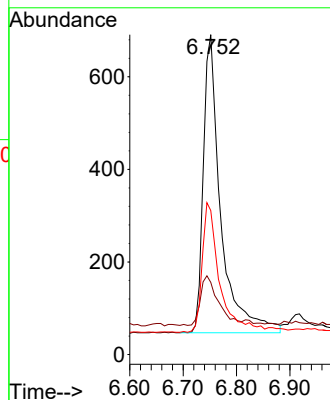
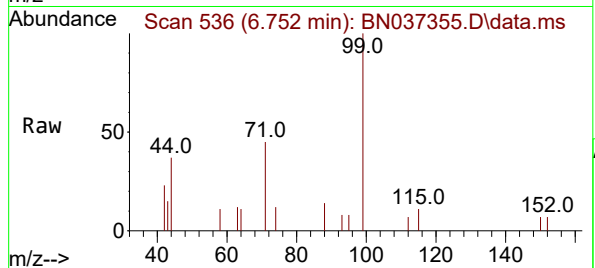




#5
Phenol-d6
Concen: 0.424 ng
RT: 6.752 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

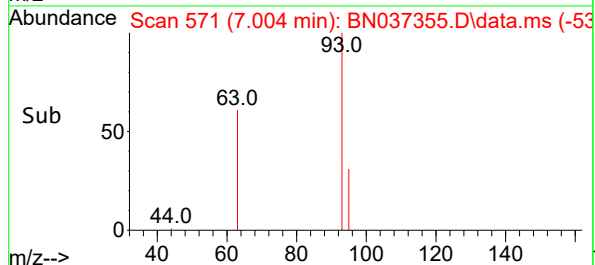
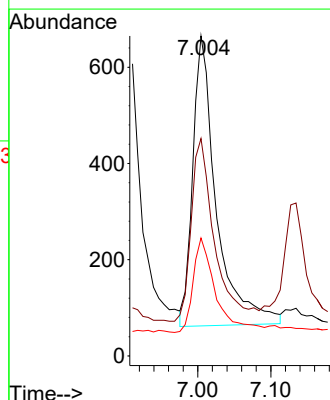
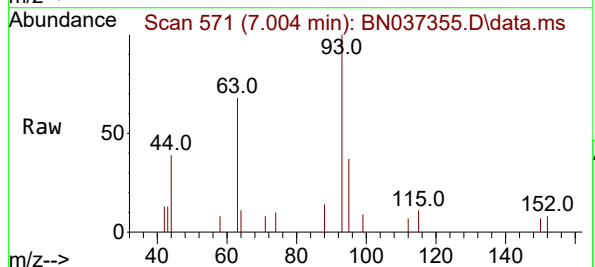
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

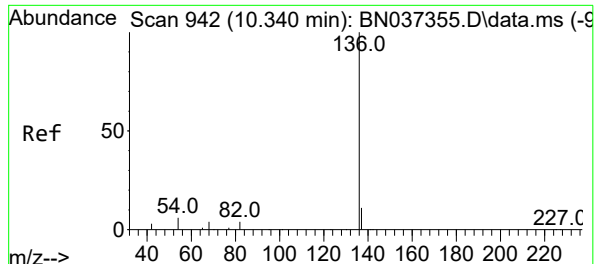
Tgt Ion: 99 Resp: 1465
Ion Ratio Lower Upper
99 100
42 17.0 19.8 29.8#
71 43.2 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.446 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 93 Resp: 1351
Ion Ratio Lower Upper
93 100
63 60.9 53.2 79.8
95 31.1 27.3 40.9

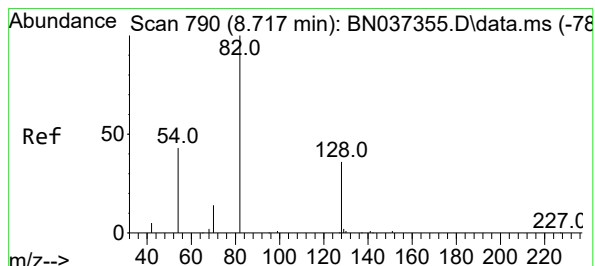
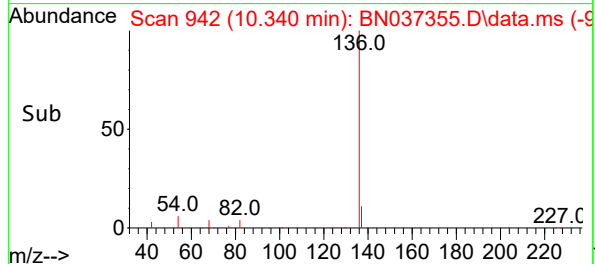
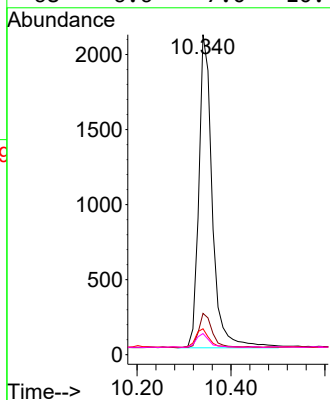
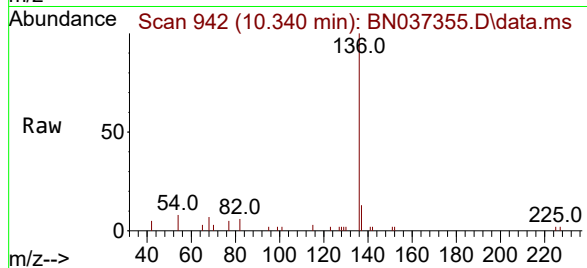




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

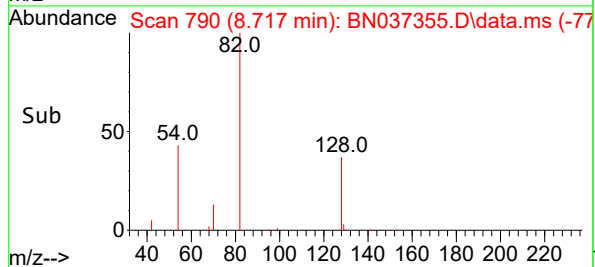
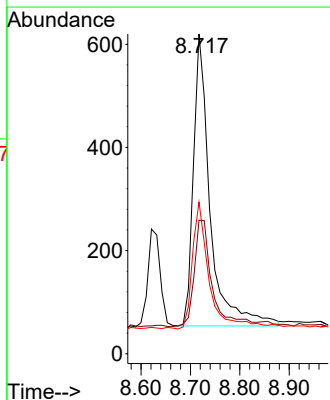
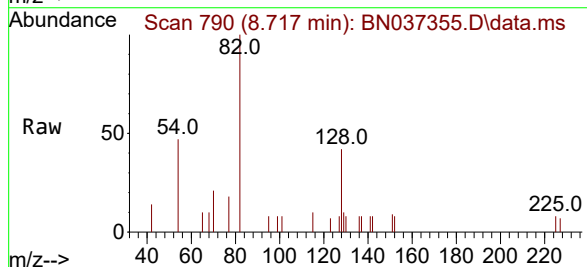
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

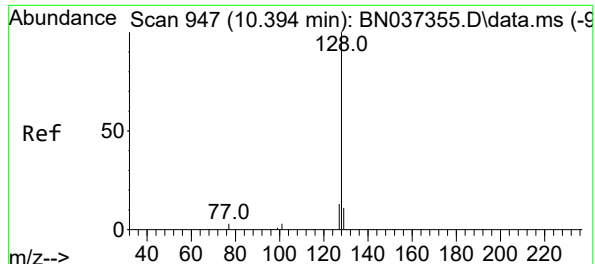
Tgt Ion	136	Resp	4157
Ion	Ratio	Lower	Upper
136	100		
137	12.9	12.2	18.2
54	8.1	8.8	13.2#
68	6.6	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion	82	Resp	1327
Ion	Ratio	Lower	Upper
82	100		
128	41.8	42.5	63.7#
54	47.4	43.2	64.8





#9
Naphthalene

Concen: 0.403 ng

RT: 10.394 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

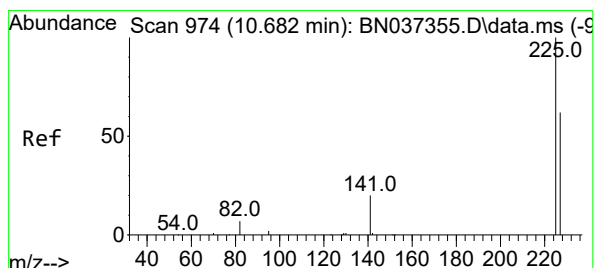
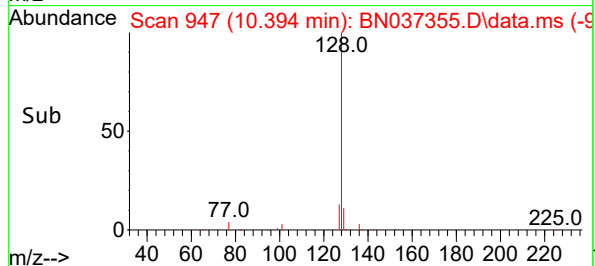
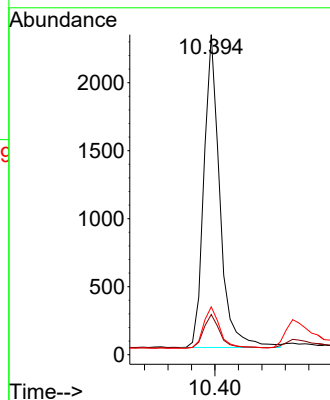
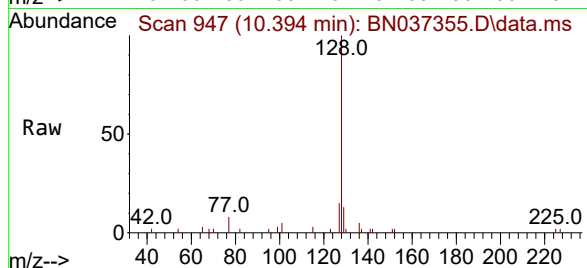
Tgt Ion:128 Resp: 4347

Ion Ratio Lower Upper

128 100

129 12.5 14.0 21.0#

127 14.9 15.8 23.8#



#10

Hexachlorobutadiene

Concen: 0.348 ng

RT: 10.682 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

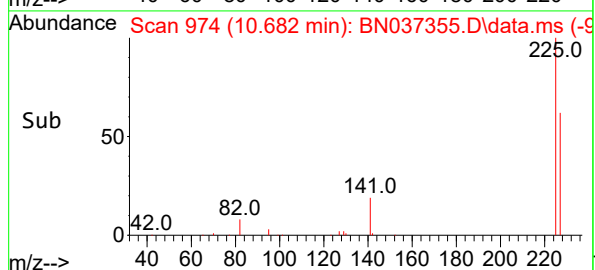
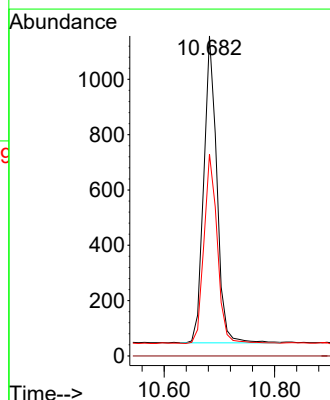
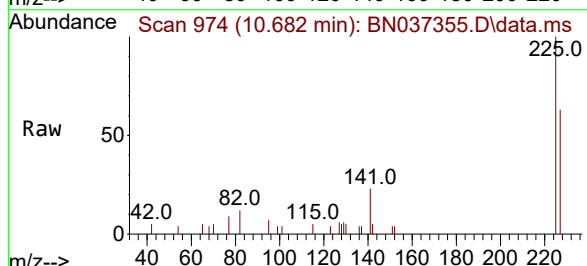
Tgt Ion:225 Resp: 1832

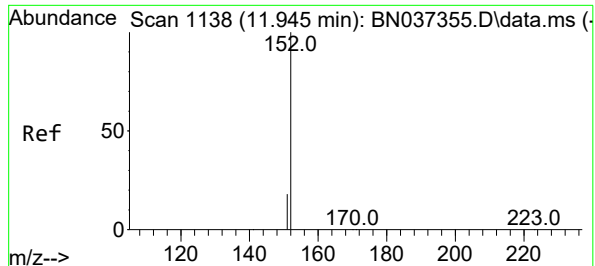
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.4 50.3 75.5

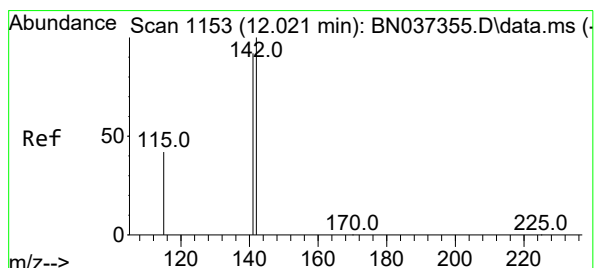
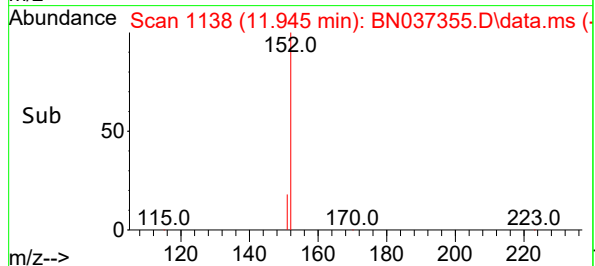
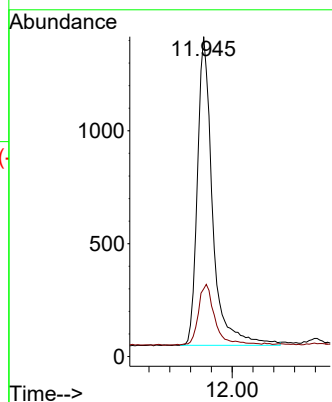
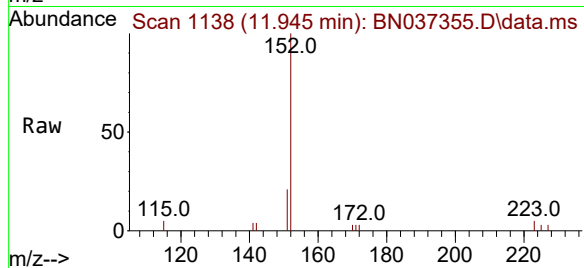




#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

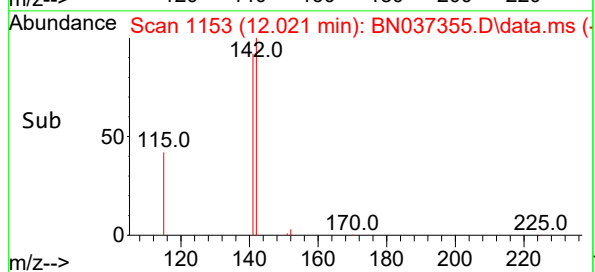
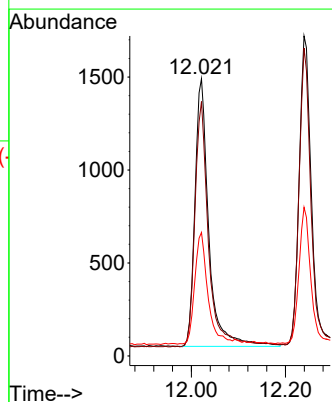
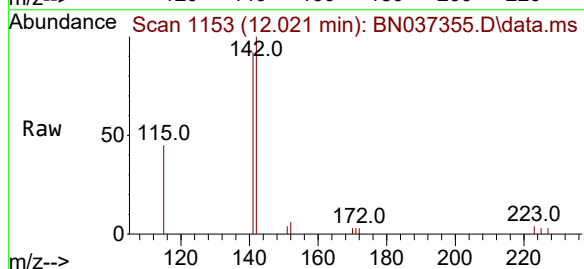
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

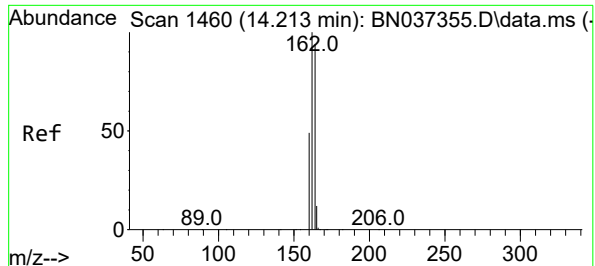
Tgt Ion:152 Resp: 2768
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:142 Resp: 2957
Ion Ratio Lower Upper
142 100
141 91.8 70.2 105.2
115 44.5 43.0 64.4

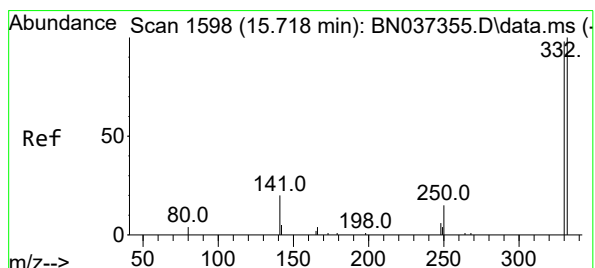
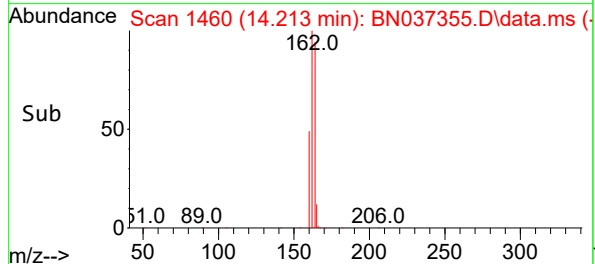
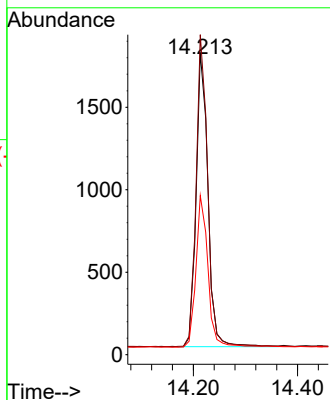
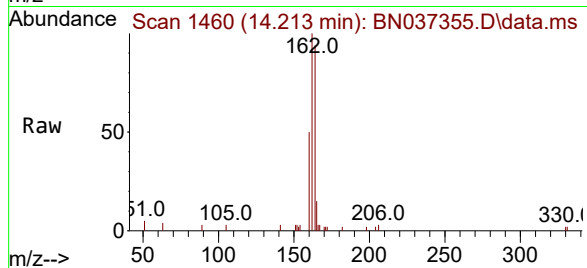




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

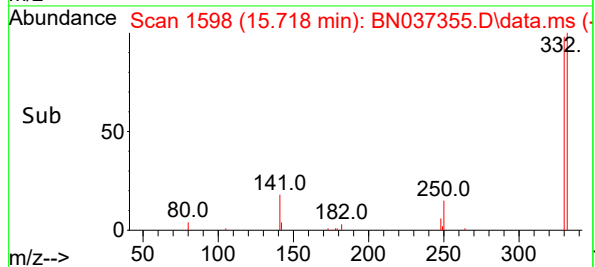
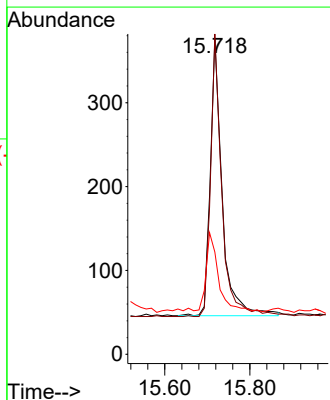
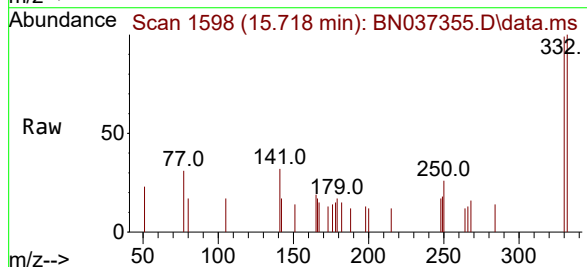
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

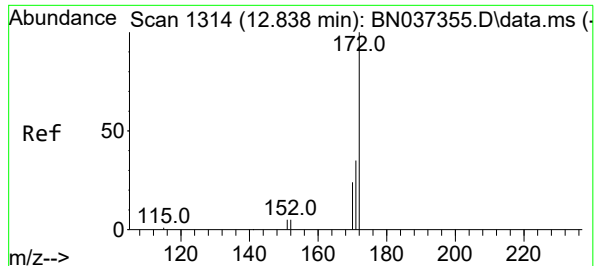
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.2	81.5	122.3
160	52.8	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.4	117.6
141	29.6	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 0.405 ng

RT: 12.838 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

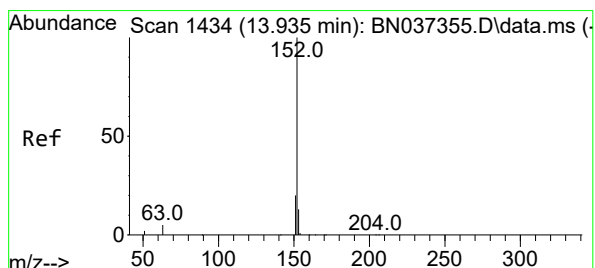
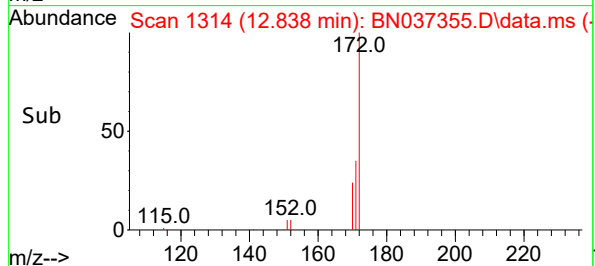
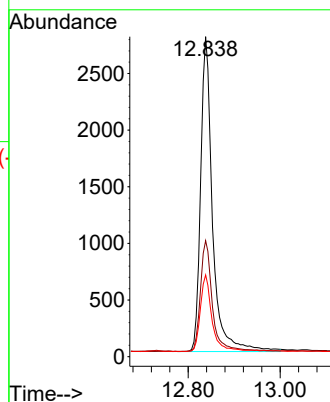
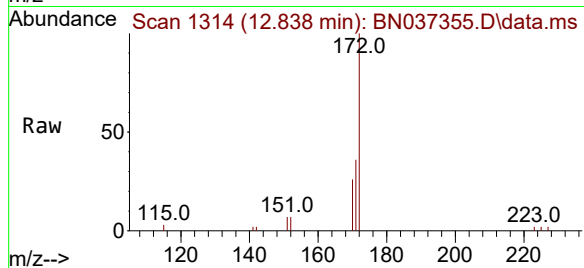
Tgt Ion:172 Resp: 4996

Ion Ratio Lower Upper

172 100

171 36.2 30.8 46.2

170 25.6 21.9 32.9



#16

Acenaphthylene

Concen: 0.381 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

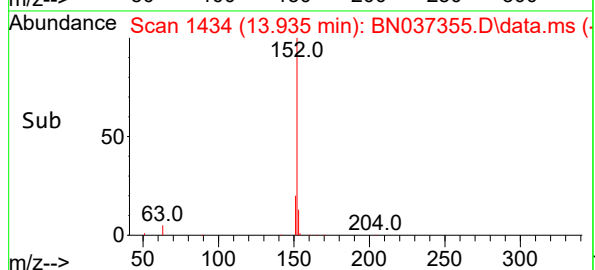
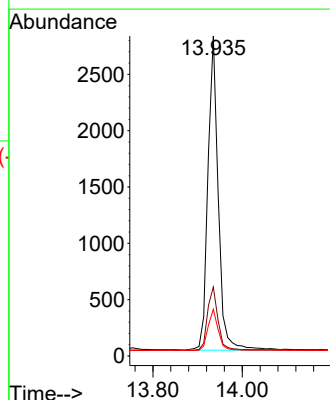
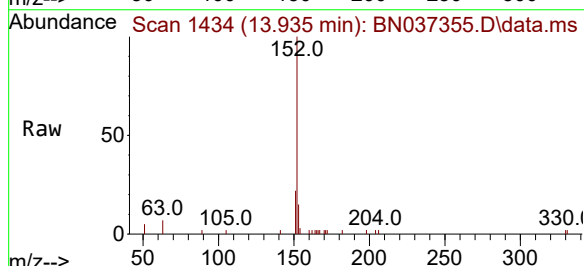
Tgt Ion:152 Resp: 4490

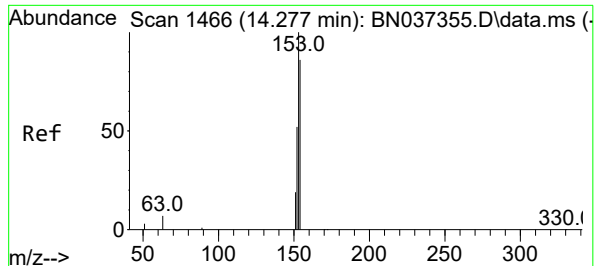
Ion Ratio Lower Upper

152 100

151 20.3 16.6 24.8

153 13.1 10.2 15.2

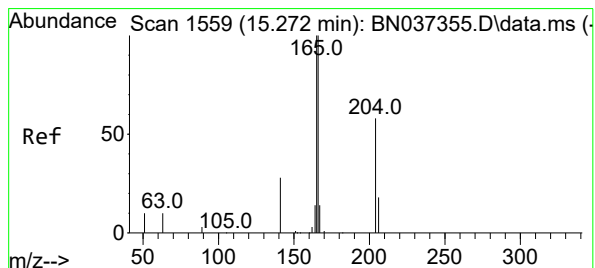
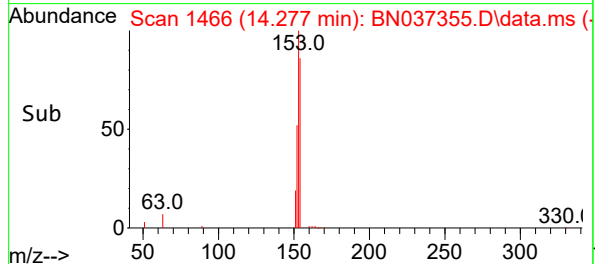
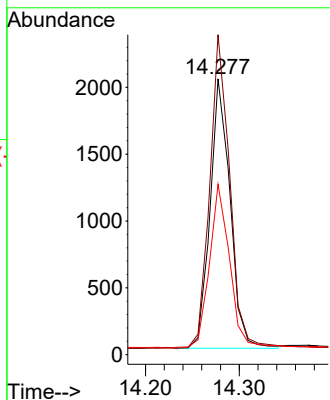
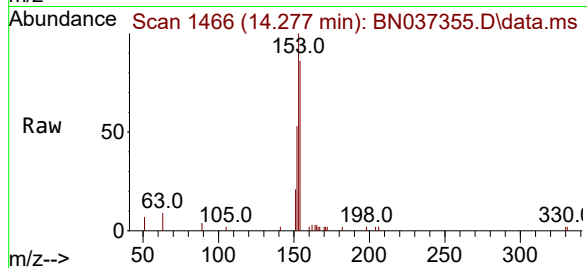




#17
Acenaphthene
Concen: 0.381 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

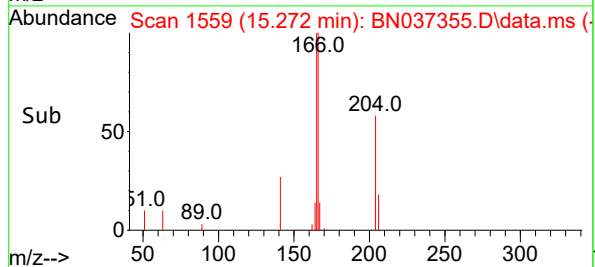
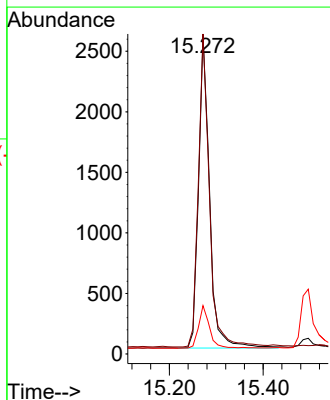
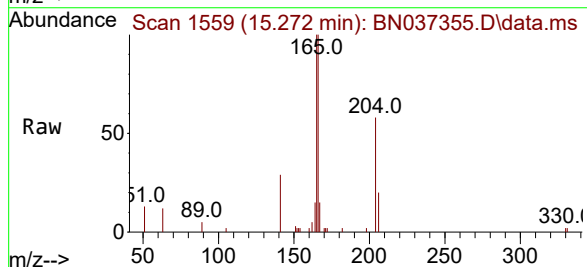
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

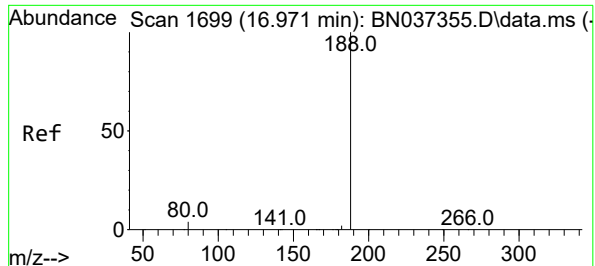
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.6	93.1	139.7
152	63.0	48.6	73.0



#18
Fluorene
Concen: 0.382 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.5	119.3
167	13.6	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

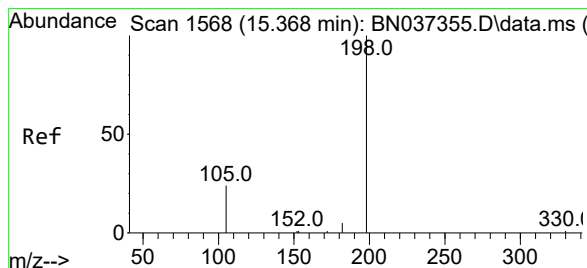
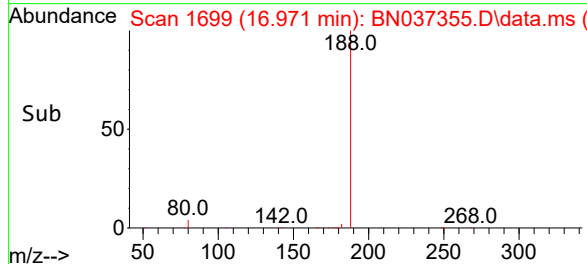
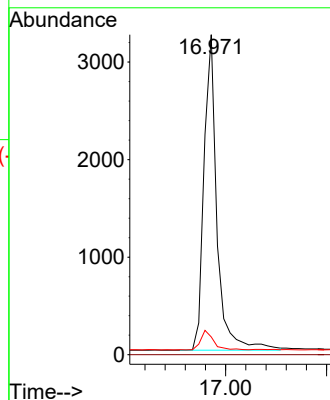
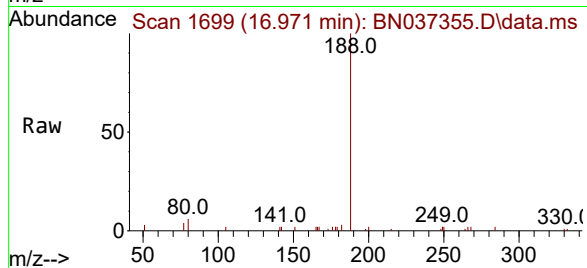
Tgt Ion:188 Resp: 5776

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.6 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.263 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

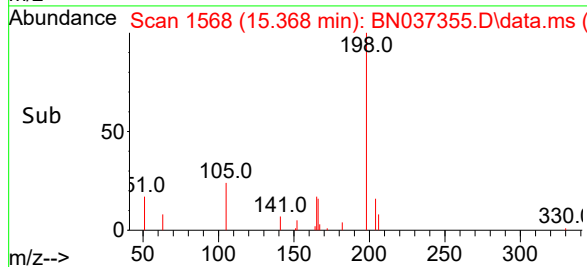
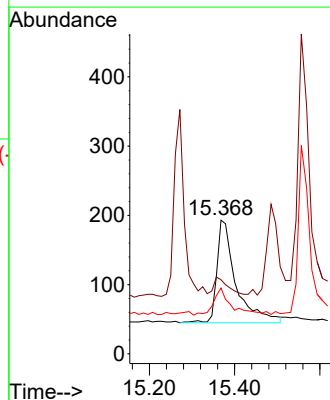
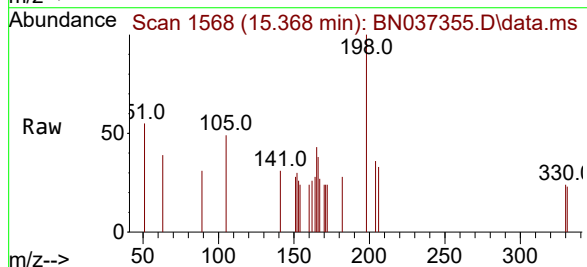
Tgt Ion:198 Resp: 459

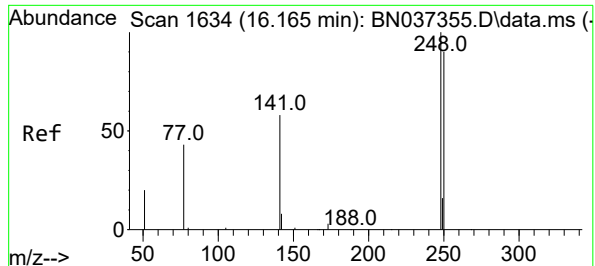
Ion Ratio Lower Upper

198 100

51 55.4 51.4 77.0

105 49.2 45.5 68.3

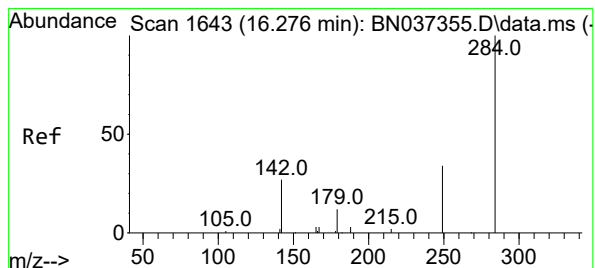
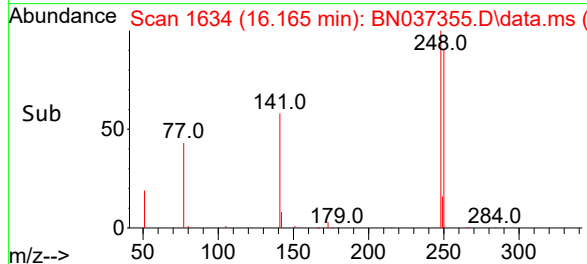
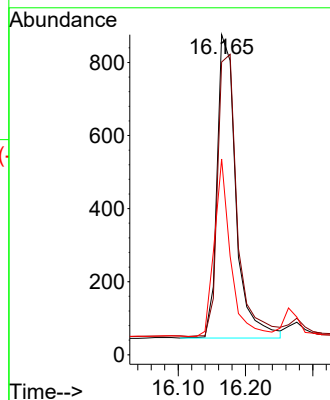
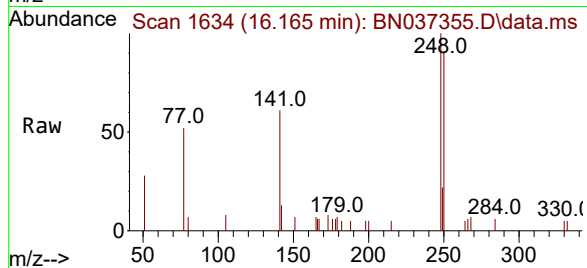




#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.165 min Scan# 1611
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

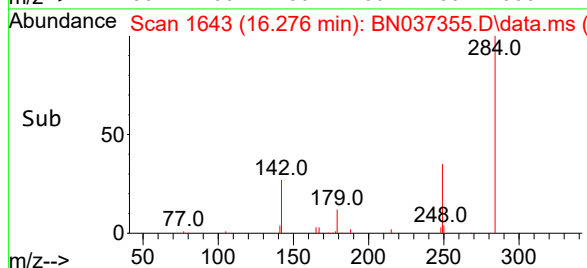
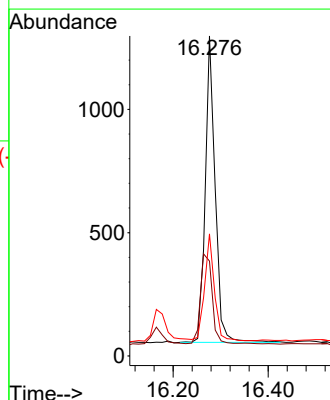
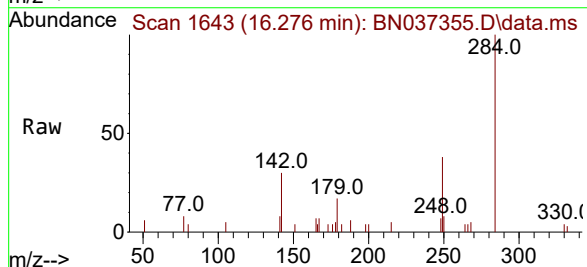
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

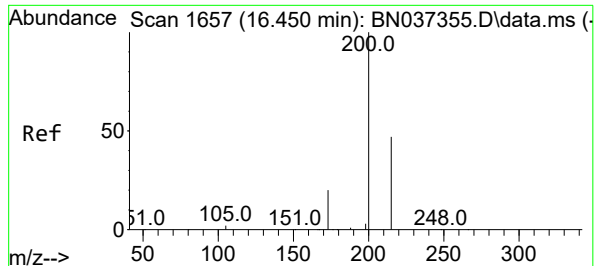
Tgt Ion:248 Resp: 1611
Ion Ratio Lower Upper
248 100
250 91.4 80.4 120.6
141 61.2 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.369 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:284 Resp: 1814
Ion Ratio Lower Upper
284 100
142 34.2 27.0 40.6
249 34.2 28.8 43.2

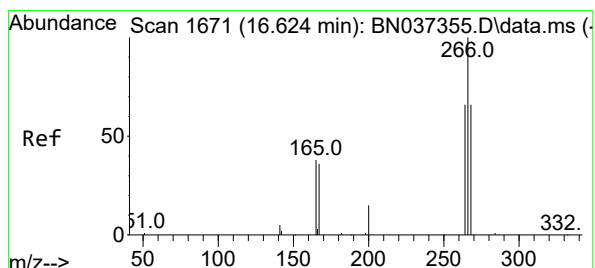
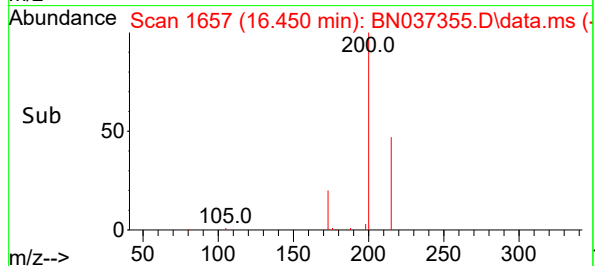
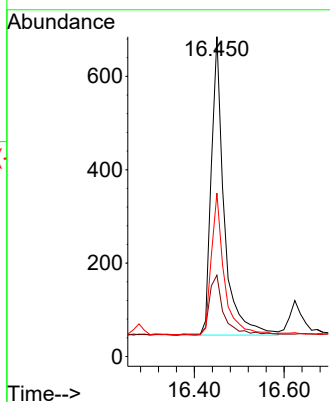
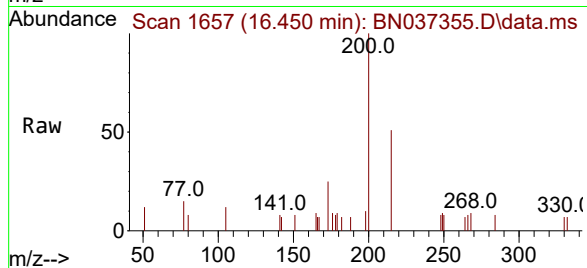




#23
Atrazine
Concen: 0.342 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

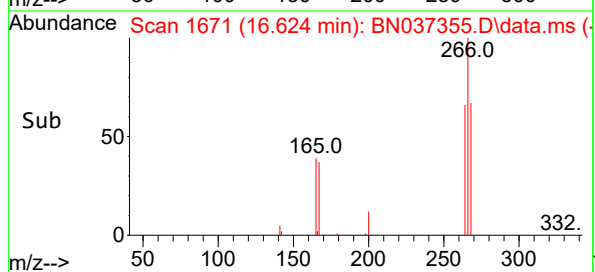
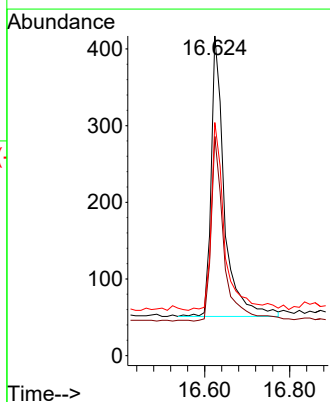
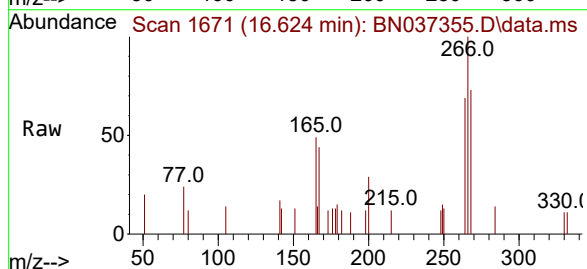
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

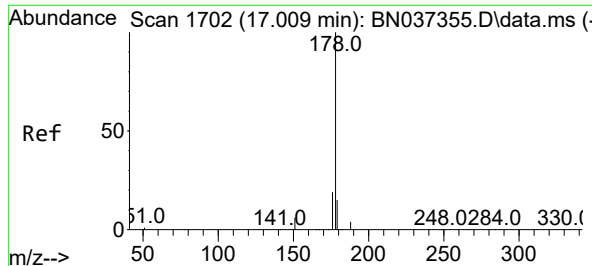
Tgt Ion:200 Resp: 1262
Ion Ratio Lower Upper
200 100
173 25.4 29.2 43.8#
215 51.1 48.8 73.2



#24
Pentachlorophenol
Concen: 0.293 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:266 Resp: 792
Ion Ratio Lower Upper
266 100
264 64.3 50.3 75.5
268 67.4 55.3 82.9

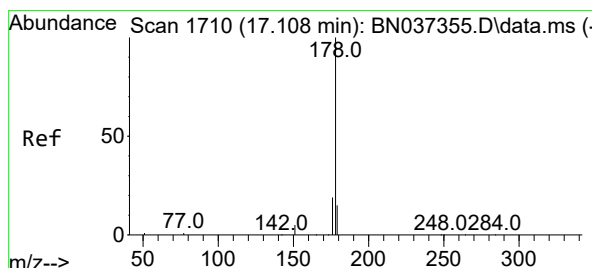
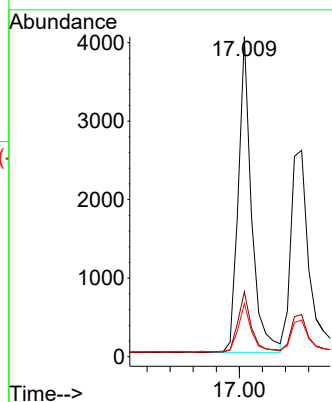
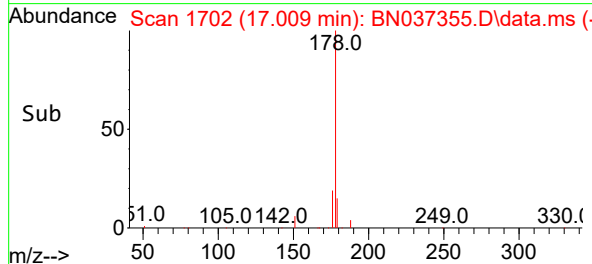
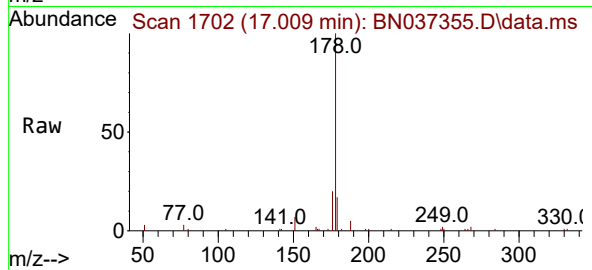




#25
Phenanthrene
Concen: 0.391 ng
RT: 17.009 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

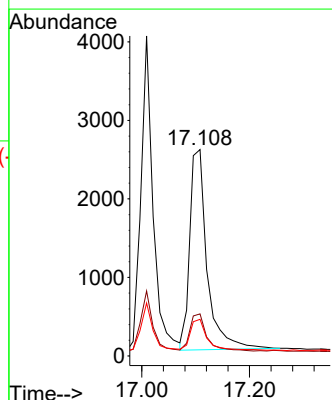
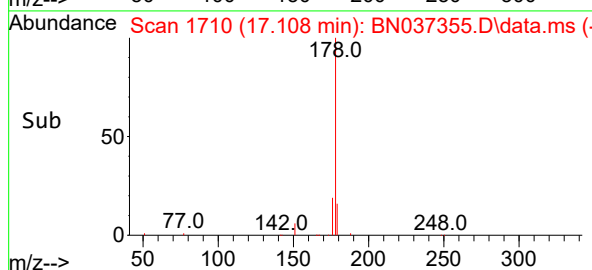
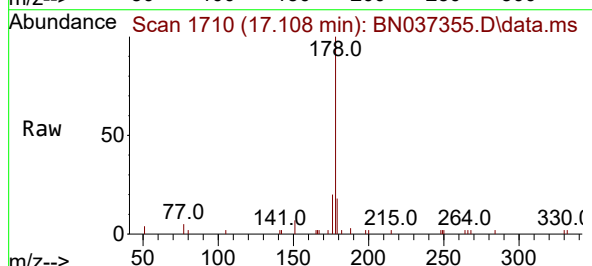
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

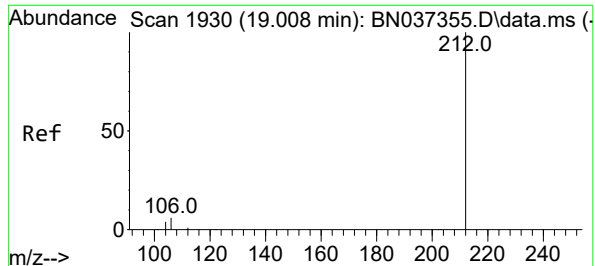
Tgt Ion:178 Resp: 6374
Ion Ratio Lower Upper
178 100
176 19.7 15.2 22.8
179 15.8 12.9 19.3



#26
Anthracene
Concen: 0.375 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:178 Resp: 5717
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.373 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

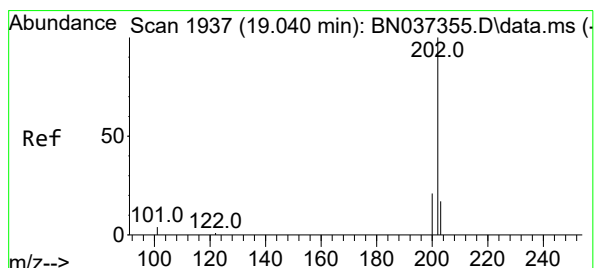
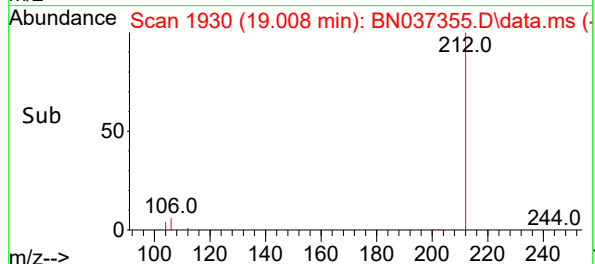
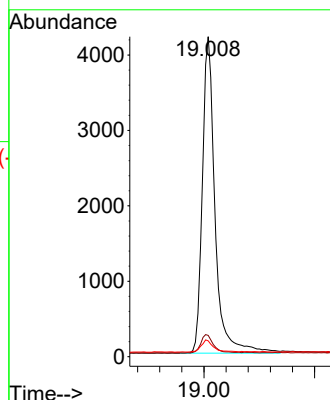
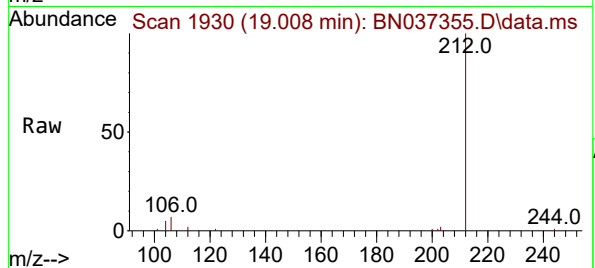
Tgt Ion:212 Resp: 6705

Ion Ratio Lower Upper

212 100

106 5.8 3.0 4.4#

104 3.8 2.0 3.0#



#28

Fluoranthene

Concen: 0.354 ng

RT: 19.040 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

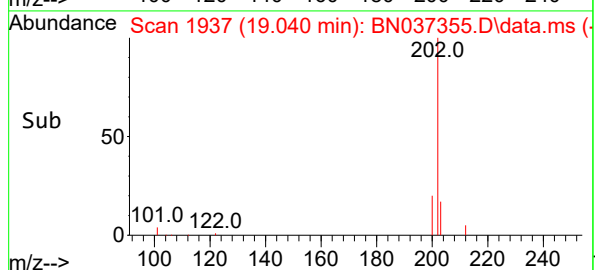
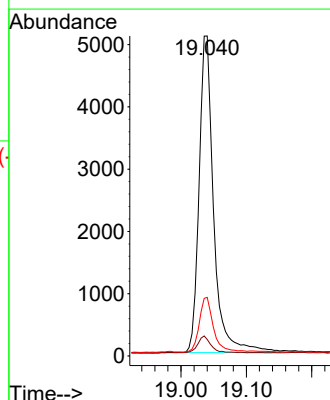
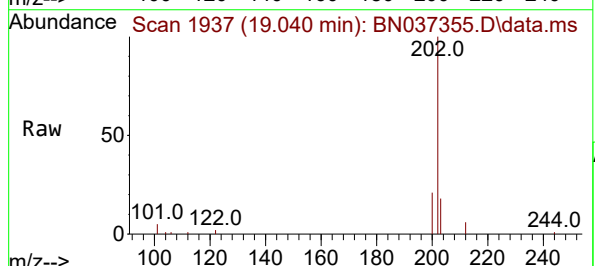
Tgt Ion:202 Resp: 7896

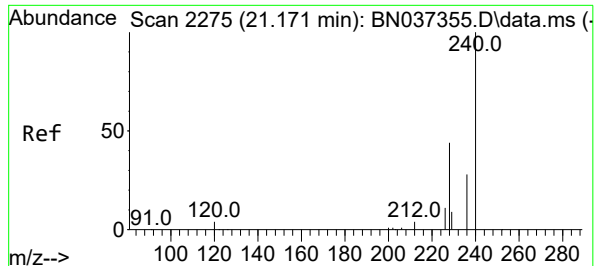
Ion Ratio Lower Upper

202 100

101 5.2 3.0 4.6#

203 16.6 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

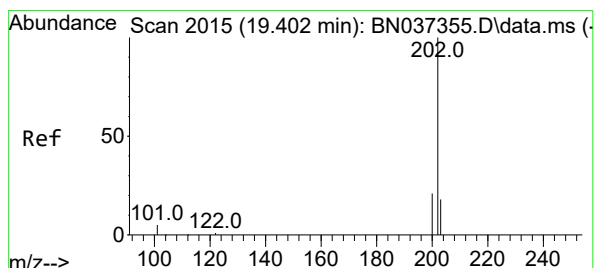
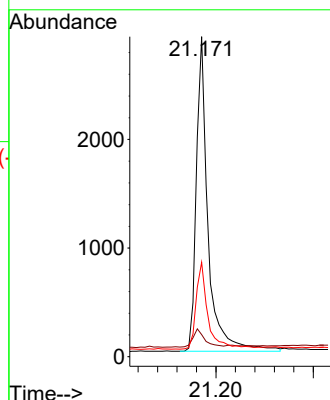
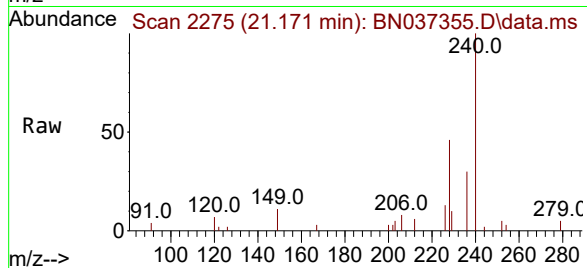
Tgt Ion:240 Resp: 4813

Ion Ratio Lower Upper

240 100

120 6.9 7.5 11.3#

236 29.5 24.9 37.3



#30

Pyrene

Concen: 0.434 ng

RT: 19.402 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

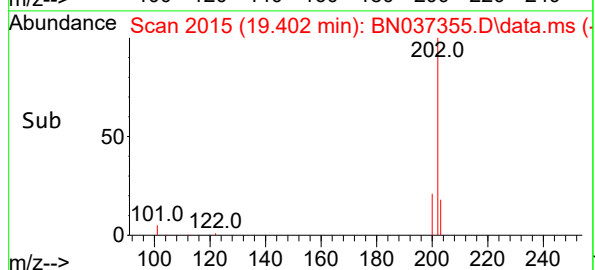
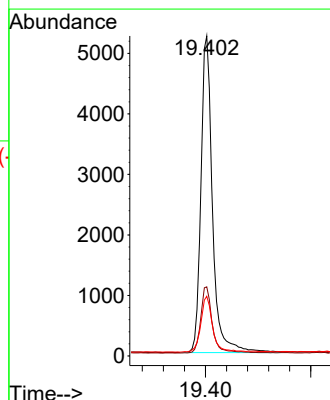
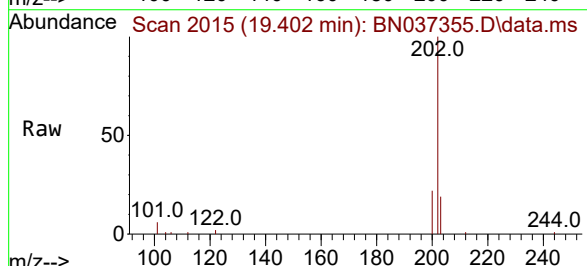
Tgt Ion:202 Resp: 7990

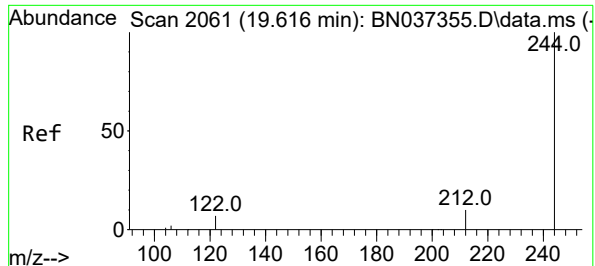
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

203 18.0 14.5 21.7

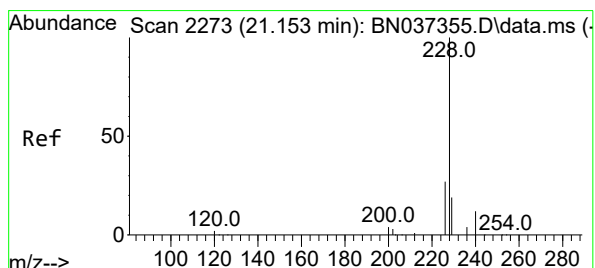
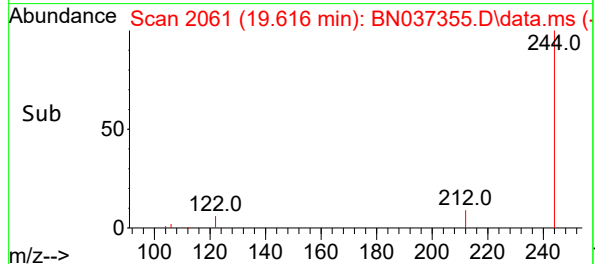
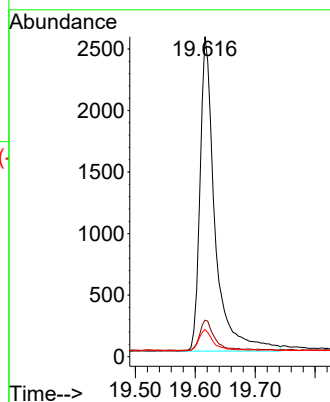
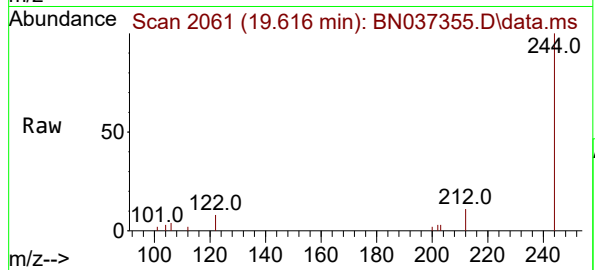




#31
Terphenyl-d14
Concen: 0.405 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

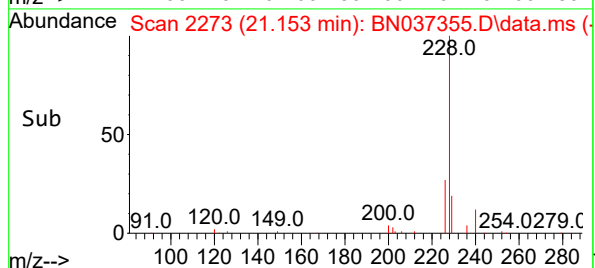
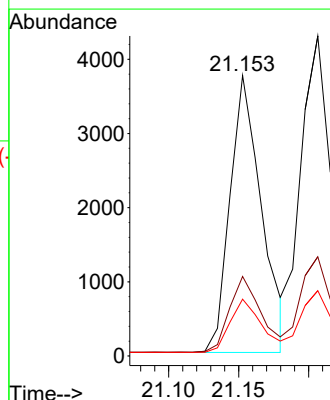
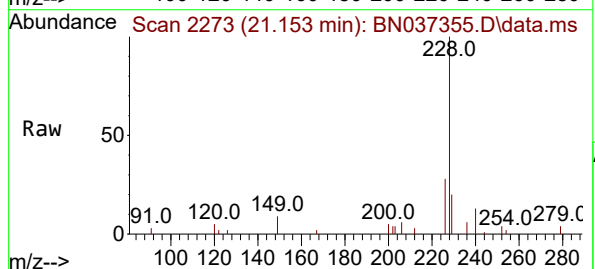
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

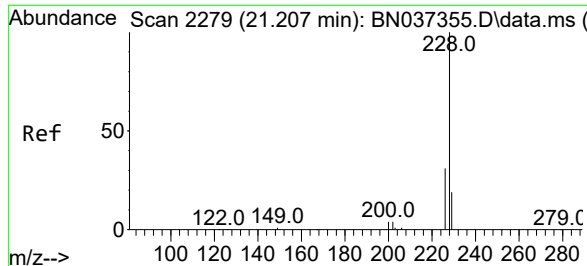
Tgt Ion:244 Resp: 4452
Ion Ratio Lower Upper
244 100
212 11.4 11.1 16.7
122 8.5 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:228 Resp: 5851
Ion Ratio Lower Upper
228 100
226 28.4 23.0 34.4
229 20.3 17.4 26.0





#33

Chrysene

Concen: 0.394 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

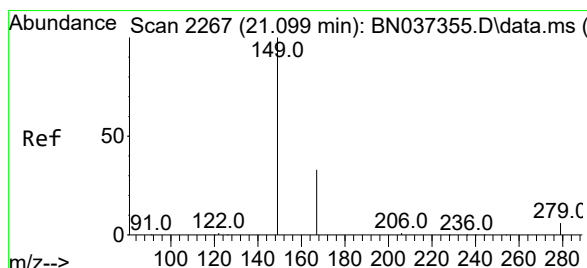
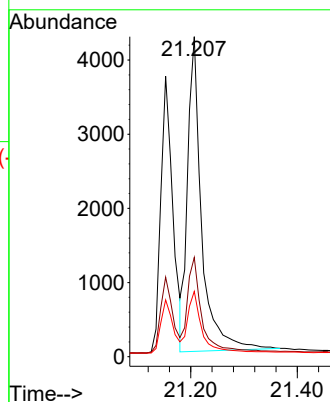
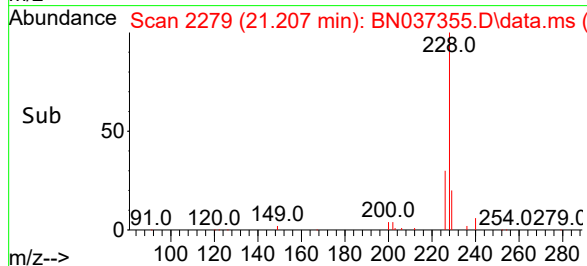
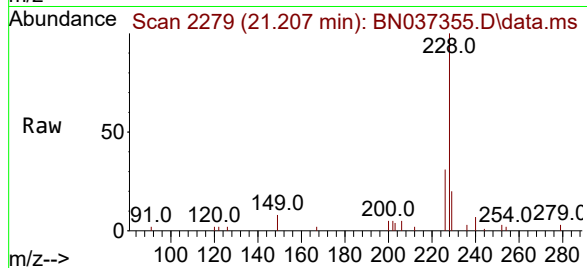
Tgt Ion:228 Resp: 7754

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.2

229 20.4 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.409 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

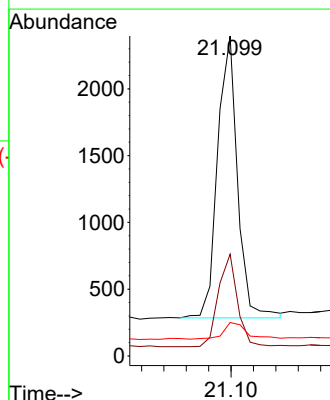
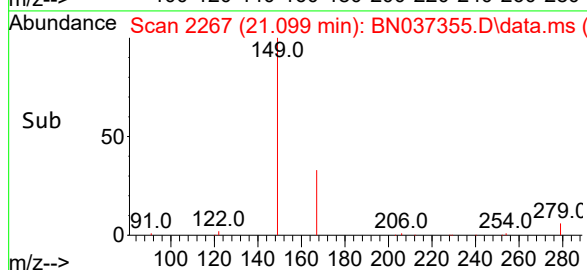
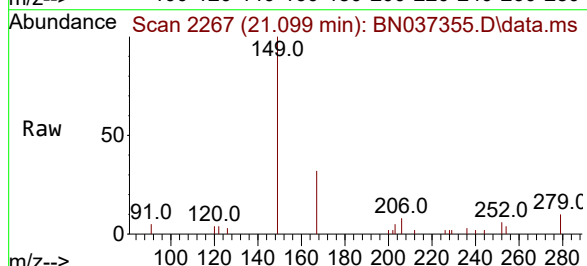
Tgt Ion:149 Resp: 2603

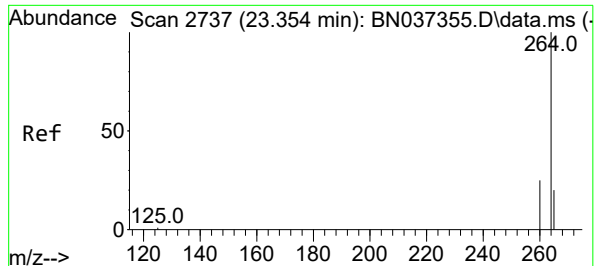
Ion Ratio Lower Upper

149 100

167 31.9 24.6 37.0

279 7.2 6.5 9.7

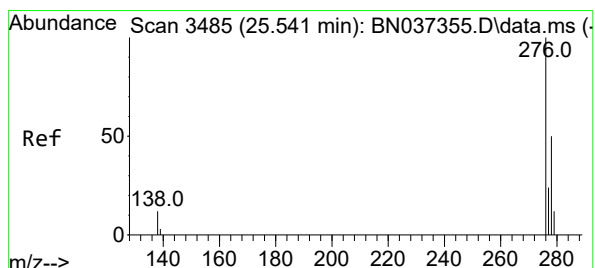
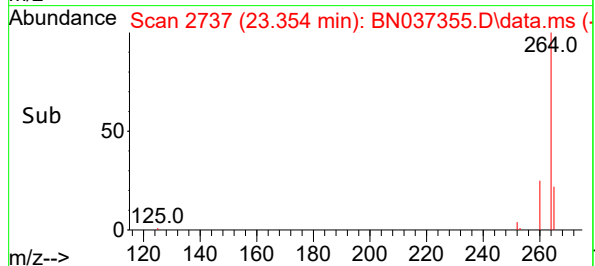
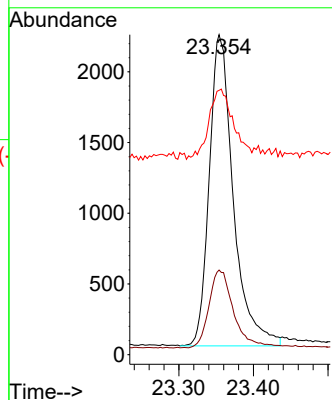
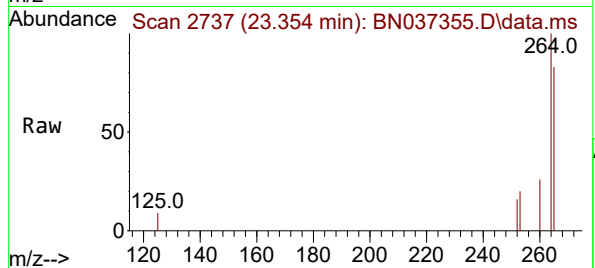




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

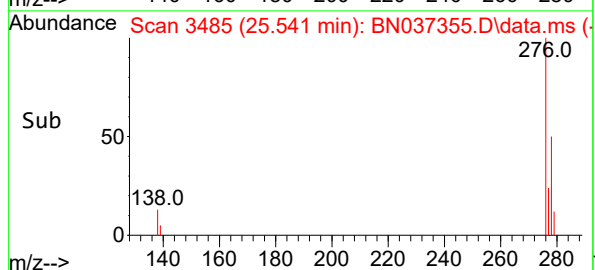
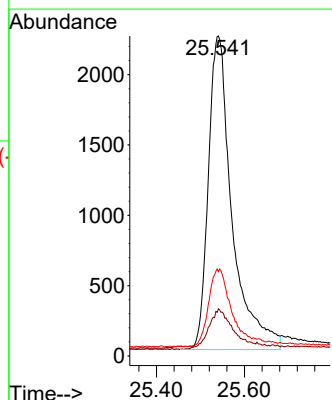
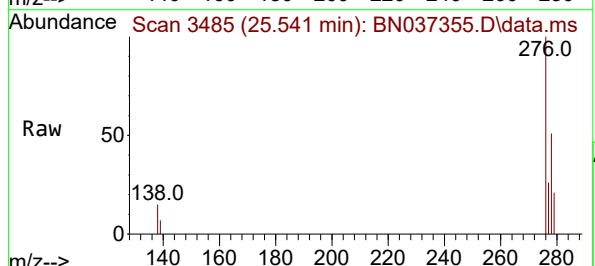
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

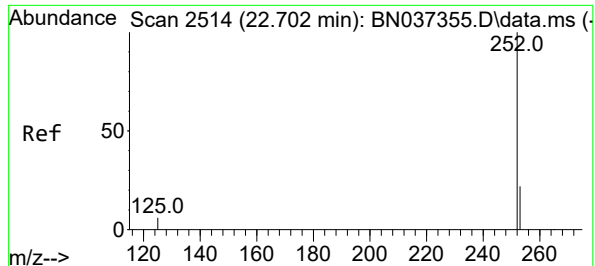
Tgt Ion:264 Resp: 4943
Ion Ratio Lower Upper
264 100
260 26.5 21.4 32.2
265 82.6 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.541 min Scan# 3485
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:276 Resp: 8379
Ion Ratio Lower Upper
276 100
138 11.3 2.2 3.2#
277 23.4 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.407 ng m

RT: 22.702 min Scan# 2514

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

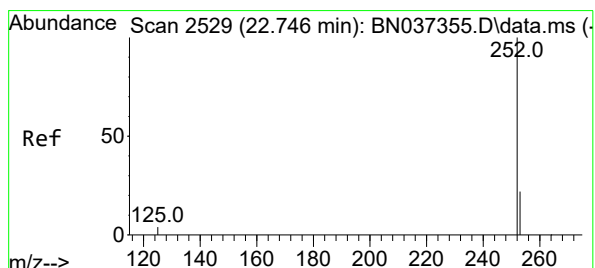
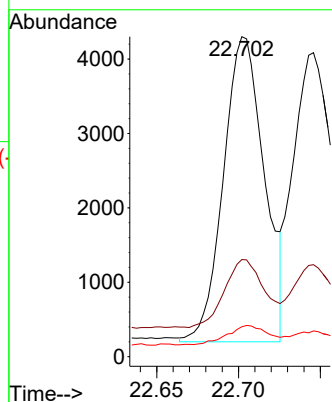
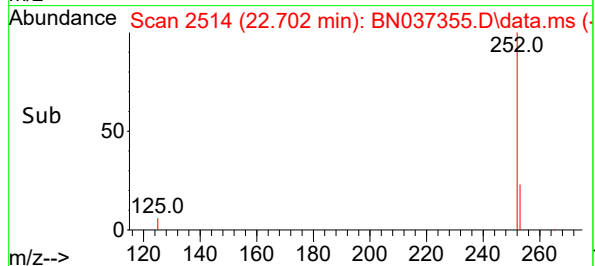
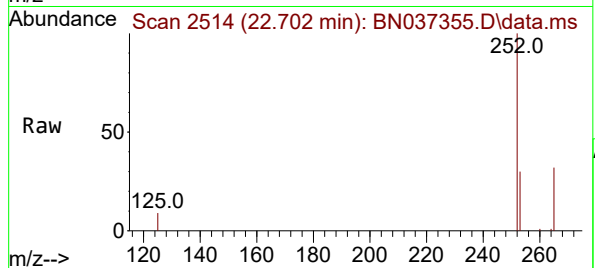
Tgt Ion:252 Resp: 7138

Ion Ratio Lower Upper

252 100

253 30.3 26.6 40.0

125 9.4 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.746 min Scan# 2529

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

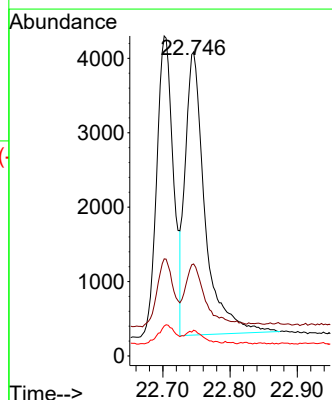
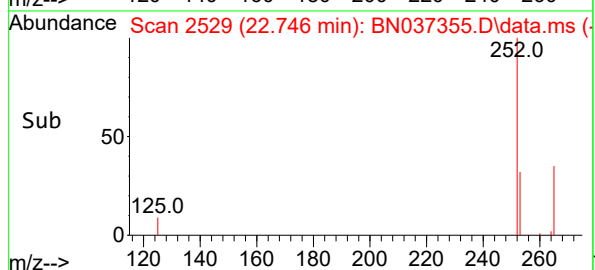
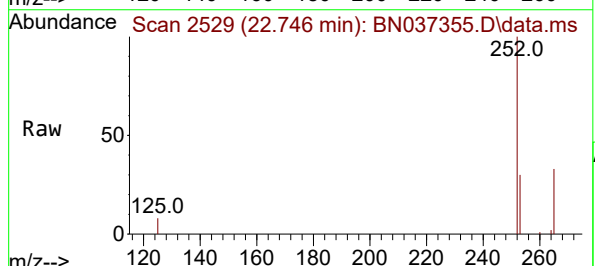
Tgt Ion:252 Resp: 7755

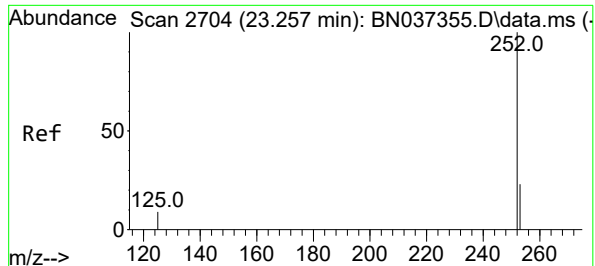
Ion Ratio Lower Upper

252 100

253 30.3 26.7 40.1

125 8.5 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.257 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

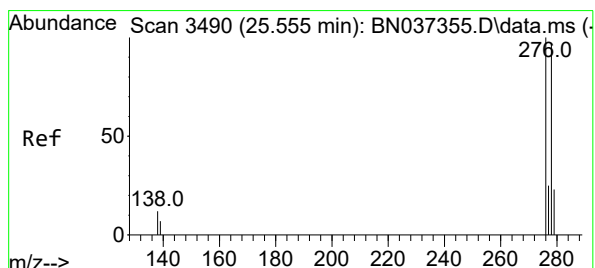
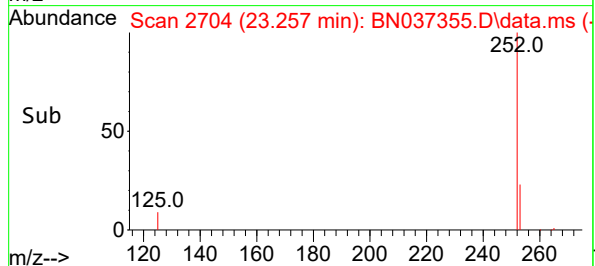
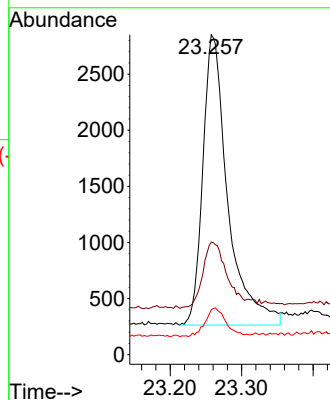
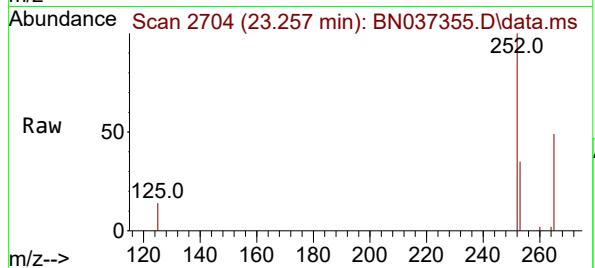
Tgt Ion:252 Resp: 6298

Ion Ratio Lower Upper

252 100

253 35.2 31.6 47.4

125 14.0 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.366 ng

RT: 25.555 min Scan# 3490

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

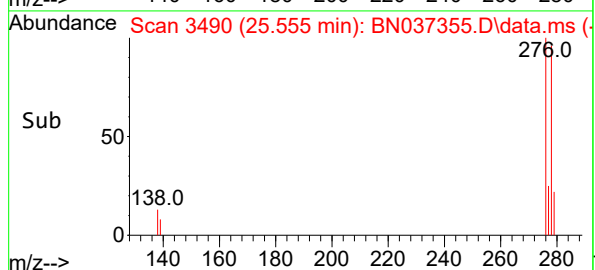
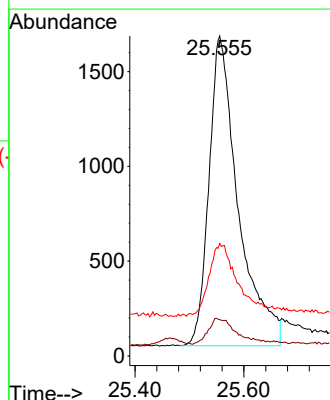
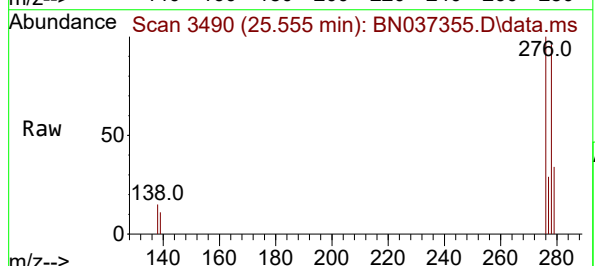
Tgt Ion:278 Resp: 6108

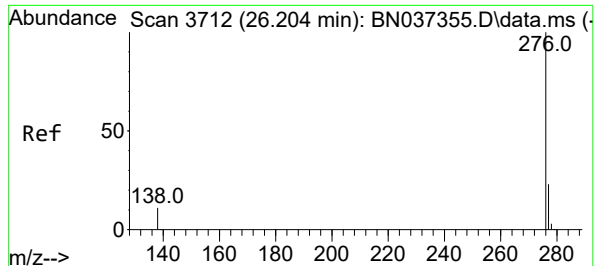
Ion Ratio Lower Upper

278 100

139 11.3 10.2 15.4

279 35.1 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.408 ng

RT: 26.204 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037355.D

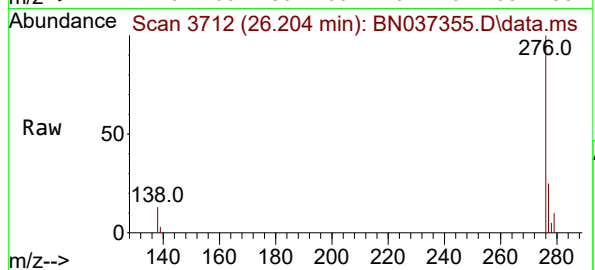
Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



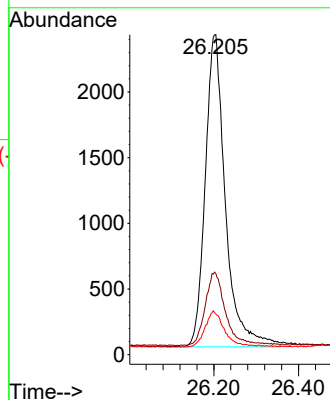
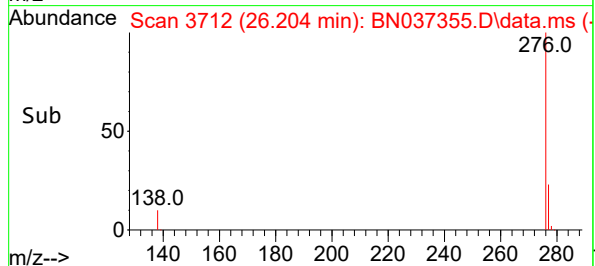
Tgt Ion:276 Resp: 7852

Ion Ratio Lower Upper

276 100

277 25.4 22.7 34.1

138 12.7 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037356.D
 Acq On : 20 Jun 2025 18:39
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 20 23:27:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

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

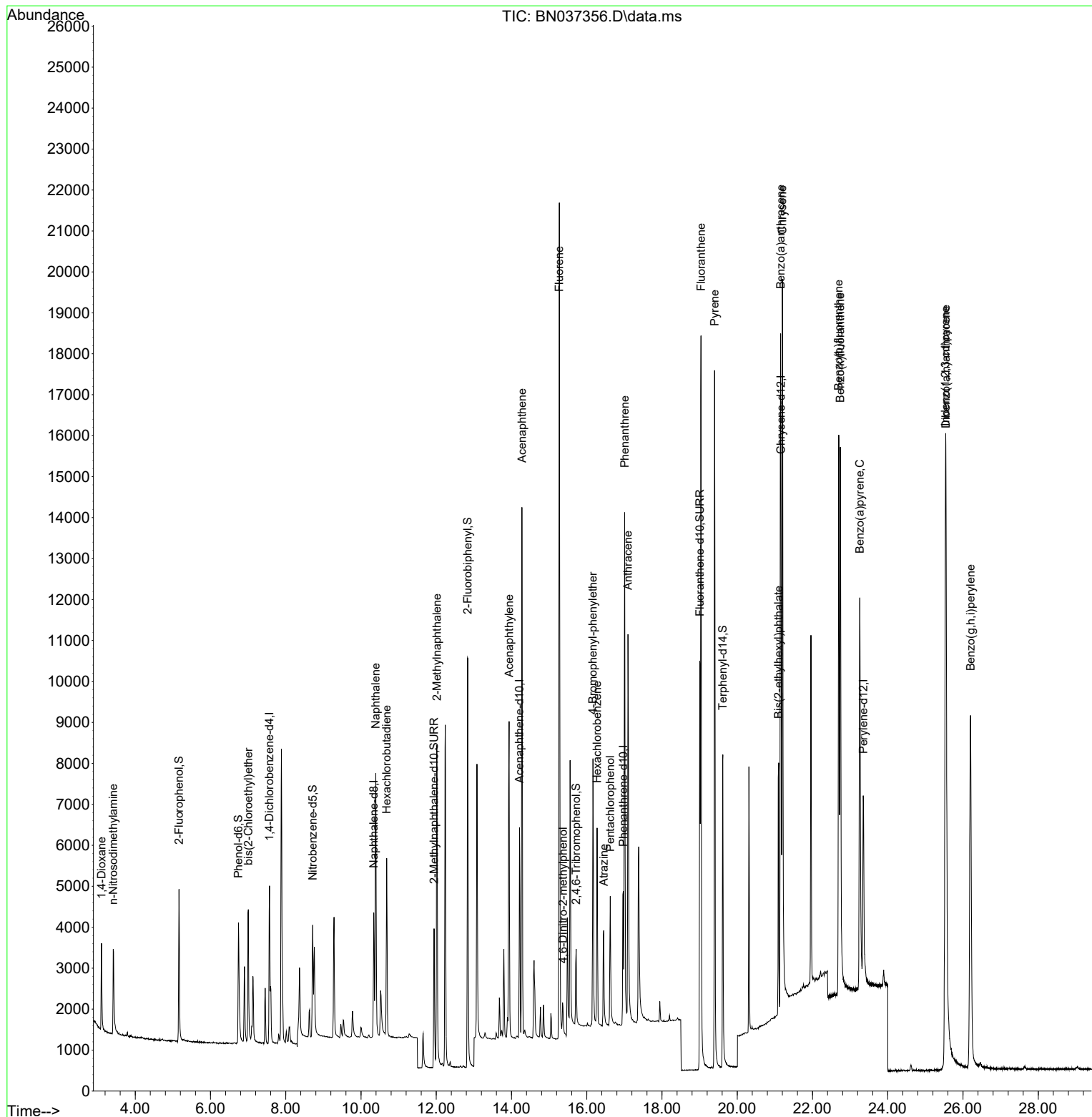
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2011	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4268	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2836	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5716	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	5944	0.400	ng	0.00
35) Perylene-d12	23.351	264	6423	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	3141	0.854	ng	0.00
5) Phenol-d6	6.744	99	3157	0.868	ng	0.00
8) Nitrobenzene-d5	8.717	82	2717	0.767	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	5209	0.754	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1310	0.646	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	9720	0.781	ng	0.00
27) Fluoranthene-d10	19.003	212	13334	0.749	ng	0.00
31) Terphenyl-d14	19.616	244	9859	0.726	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	1657	0.933	ng	93
3) n-Nitrosodimethylamine	3.415	42	1478	0.715	ng	# 74
6) bis(2-Chloroethyl)ether	7.004	93	2967	0.932	ng	96
9) Naphthalene	10.394	128	8659	0.783	ng	# 87
10) Hexachlorobutadiene	10.682	225	3472	0.642	ng	# 99
12) 2-Methylnaphthalene	12.016	142	6007	0.772	ng	93
16) Acenaphthylene	13.935	152	9047	0.760	ng	99
17) Acenaphthene	14.277	154	5960	0.755	ng	100
18) Fluorene	15.272	166	8453	0.756	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	1108	0.641	ng	# 55
21) 4-Bromophenyl-phenylether	16.165	248	3252	0.697	ng	# 89
22) Hexachlorobenzene	16.276	284	3471	0.713	ng	98
23) Atrazine	16.450	200	2516	0.689	ng	# 82
24) Pentachlorophenol	16.624	266	1797	0.673	ng	96
25) Phenanthrene	17.009	178	13016	0.806	ng	99
26) Anthracene	17.096	178	12050	0.799	ng	99
28) Fluoranthene	19.035	202	17056	0.772	ng	# 99
30) Pyrene	19.398	202	17163	0.754	ng	100
32) Benzo(a)anthracene	21.153	228	15193	0.792	ng	97
33) Chrysene	21.198	228	17610	0.724	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	5787	0.736	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.535	276	22625	0.831	ng	# 91
37) Benzo(b)fluoranthene	22.696	252	17878	0.785	ng	# 87
38) Benzo(k)fluoranthene	22.740	252	18833	0.761	ng	# 86
39) Benzo(a)pyrene	23.257	252	16022	0.769	ng	# 84
40) Dibenzo(a,h)anthracene	25.547	278	17405	0.803	ng	# 77
41) Benzo(g,h,i)perylene	26.202	276	20041	0.801	ng	94

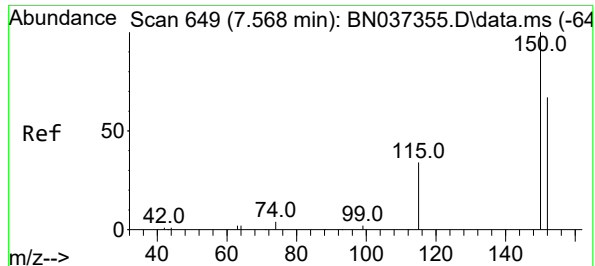
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037356.D
Acq On : 20 Jun 2025 18:39
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 20 23:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

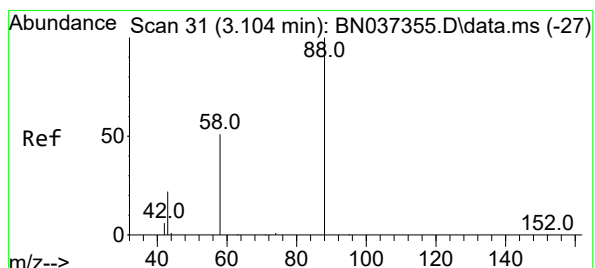
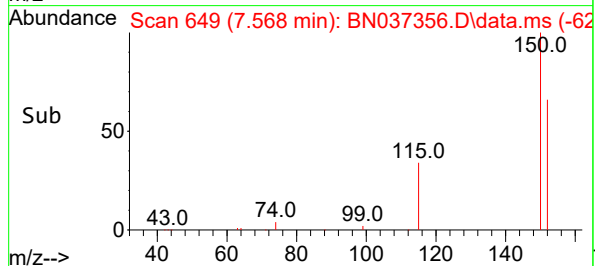
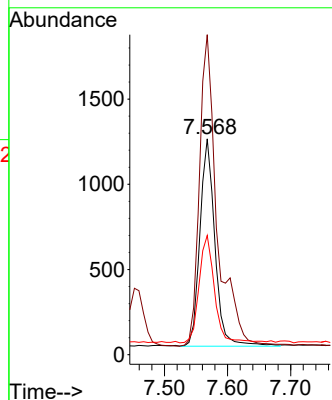
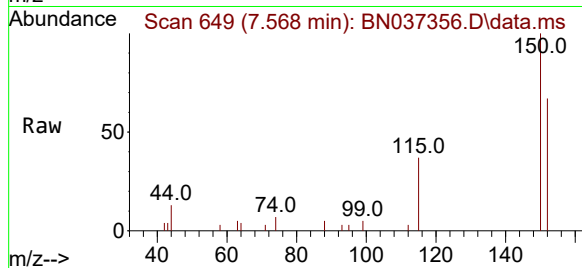




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

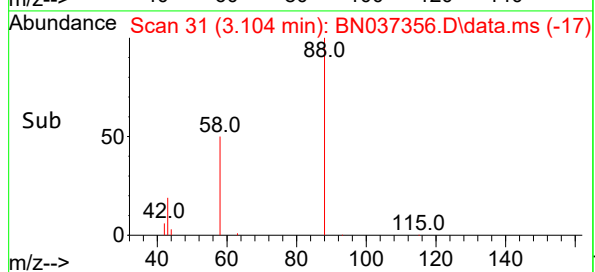
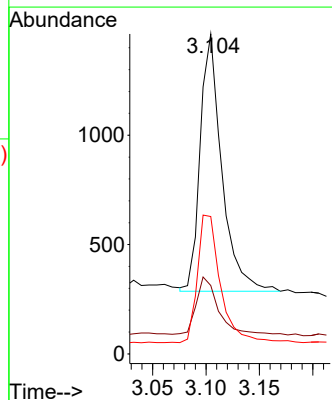
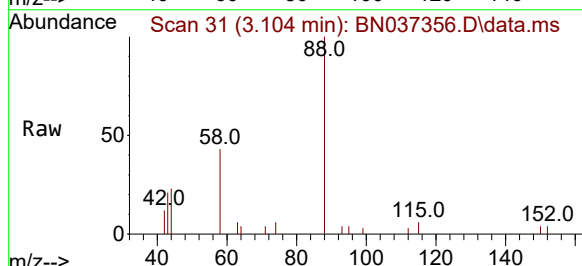
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2011
Ion Ratio Lower Upper
152 100
150 148.2 112.7 169.1
115 55.2 45.9 68.9

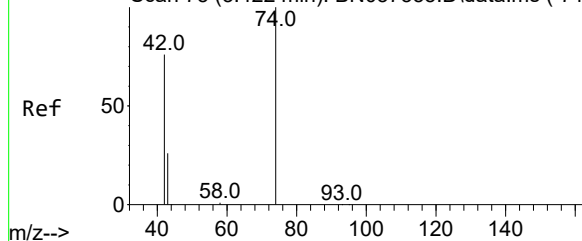


#2
1,4-Dioxane
Concen: 0.933 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

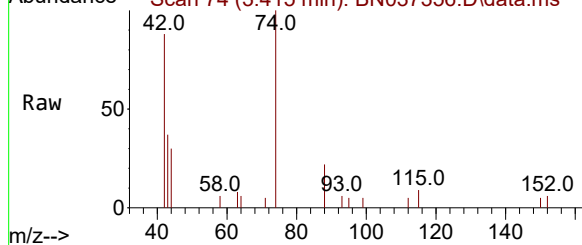
Tgt Ion: 88 Resp: 1657
Ion Ratio Lower Upper
88 100
43 23.4 21.0 31.6
58 52.7 38.0 57.0



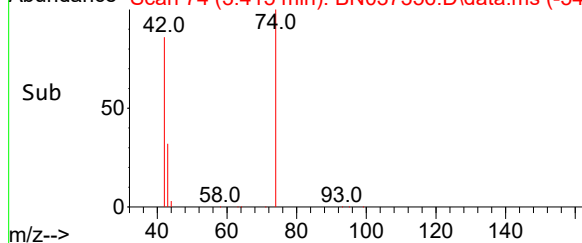
Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



Abundance Scan 74 (3.415 min): BN037356.D\data.ms



Abundance Scan 74 (3.415 min): BN037356.D\data.ms (-54)



#3

n-Nitrosodimethylamine

Concen: 0.715 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion: 42 Resp: 1478

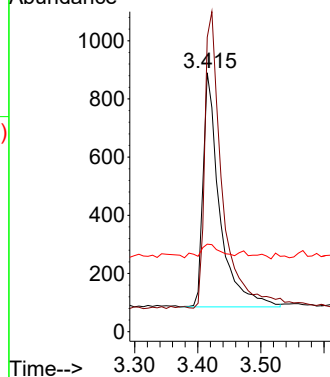
Ion Ratio Lower Upper

42 100

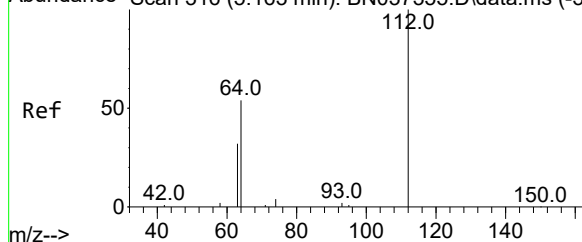
74 133.4 84.3 126.5#

44 7.1 5.0 7.4

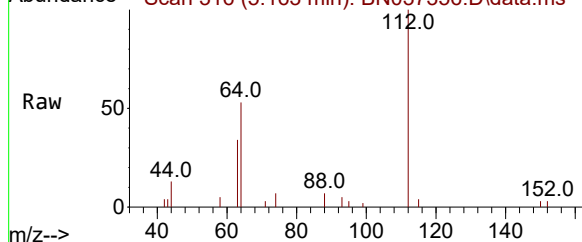
Abundance



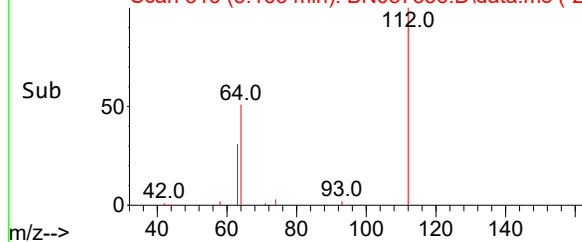
Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



Abundance Scan 316 (5.163 min): BN037356.D\data.ms



Abundance Scan 316 (5.163 min): BN037356.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.854 ng

RT: 5.163 min Scan# 316

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Tgt Ion: 112 Resp: 3141

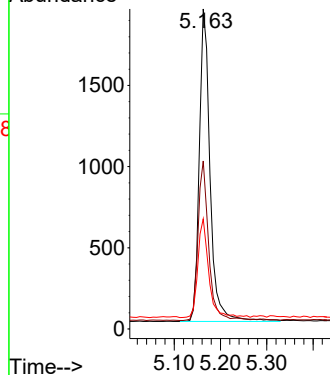
Ion Ratio Lower Upper

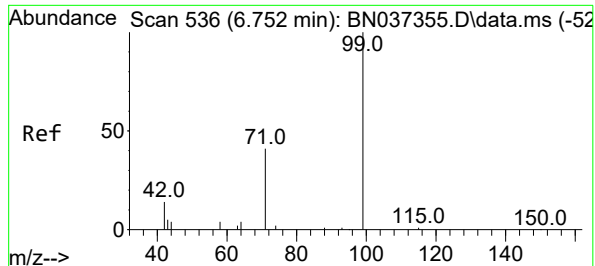
112 100

64 50.2 38.7 58.1

63 31.9 26.4 39.6

Abundance

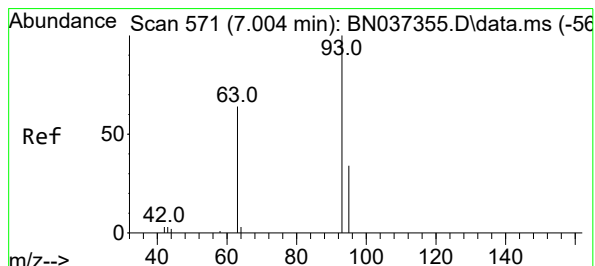
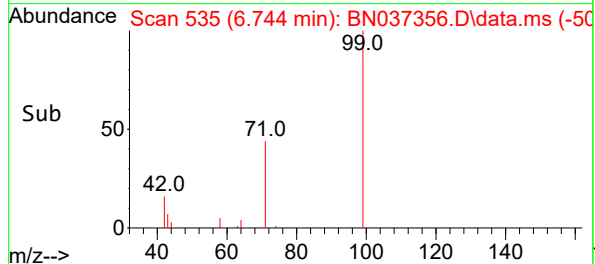
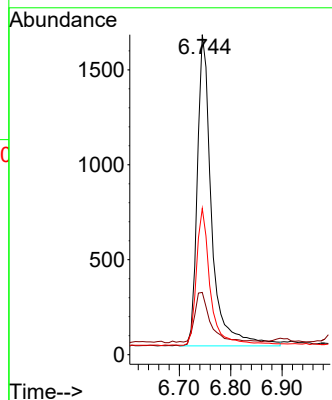
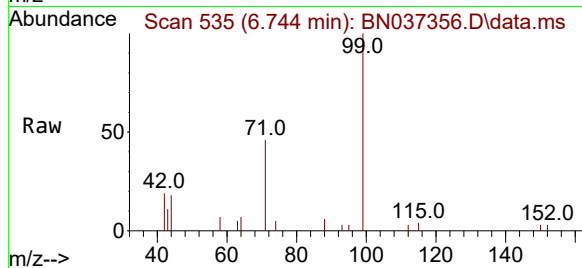




#5
Phenol-d6
Concen: 0.868 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

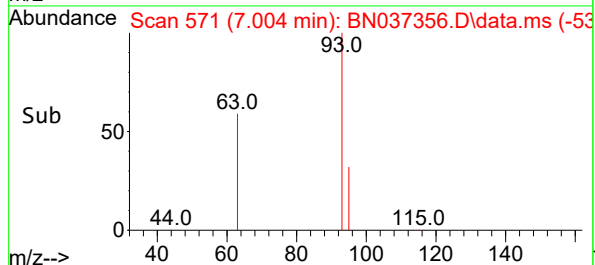
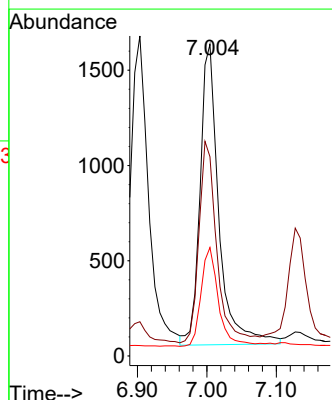
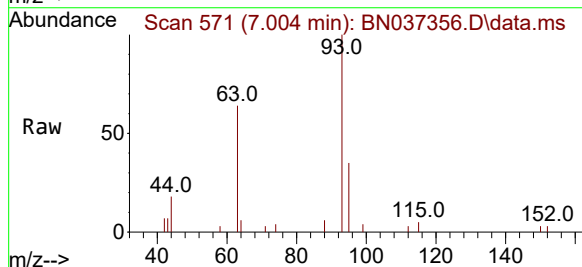
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

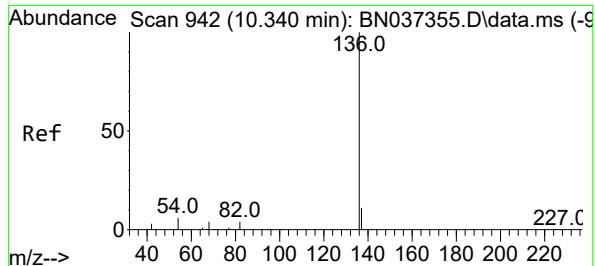
Tgt Ion: 99 Resp: 3157
Ion Ratio Lower Upper
99 100
42 17.5 19.8 29.8#
71 43.4 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.932 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion: 93 Resp: 2967
Ion Ratio Lower Upper
93 100
63 64.0 53.2 79.8
95 30.4 27.3 40.9

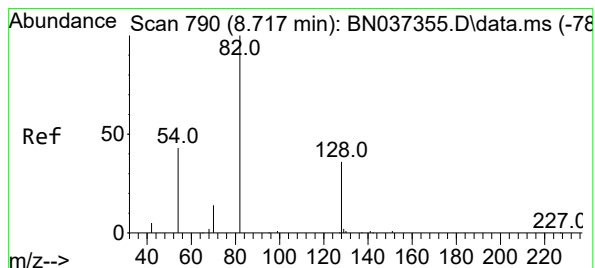
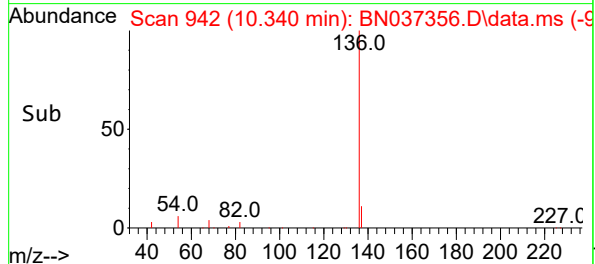
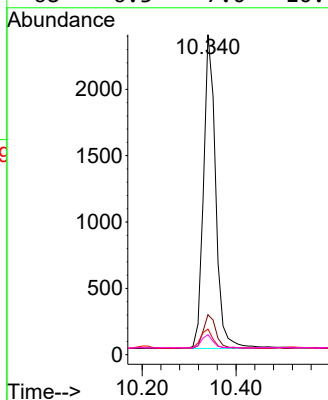
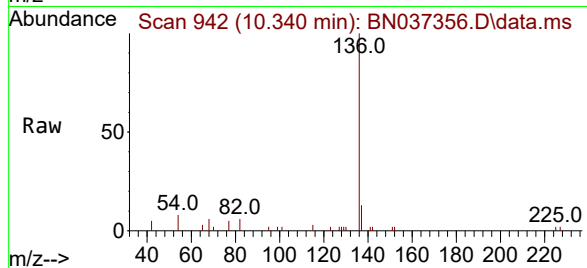




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

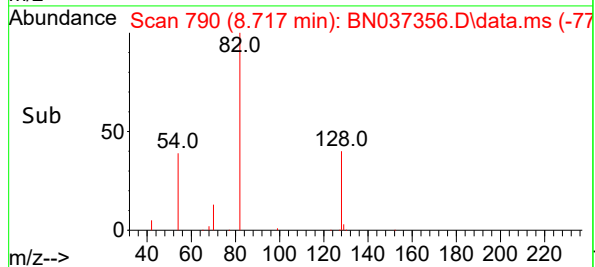
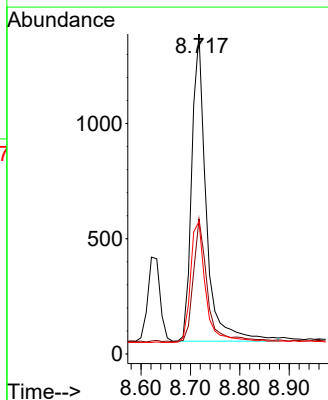
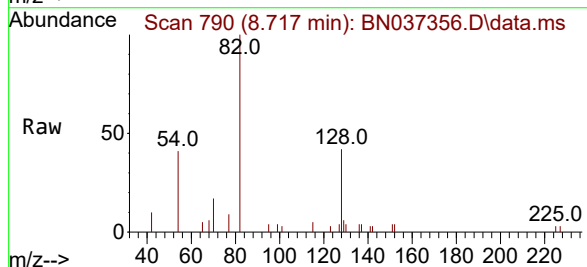
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

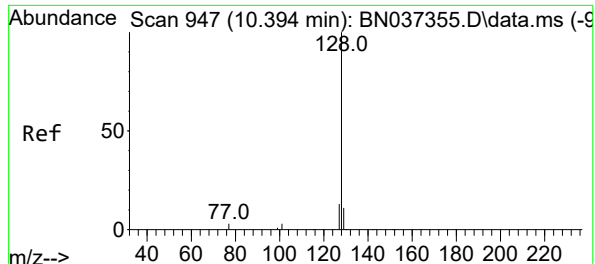
Tgt Ion:	136	Resp:	4268
Ion	Ratio	Lower	Upper
136	100		
137	12.5	12.2	18.2
54	8.0	8.8	13.2#
68	6.3	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.767 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:	82	Resp:	2717
Ion	Ratio	Lower	Upper
82	100		
128	42.2	42.5	63.7#
54	41.4	43.2	64.8#

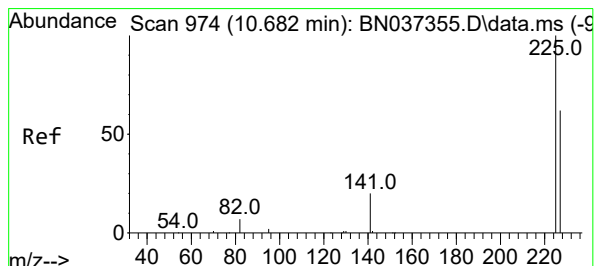
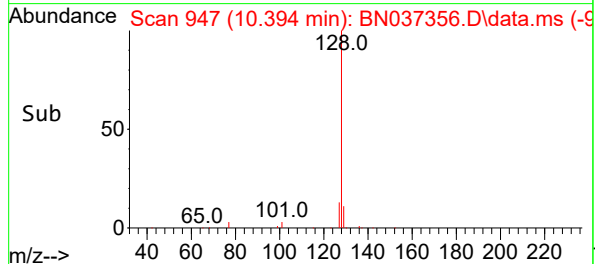
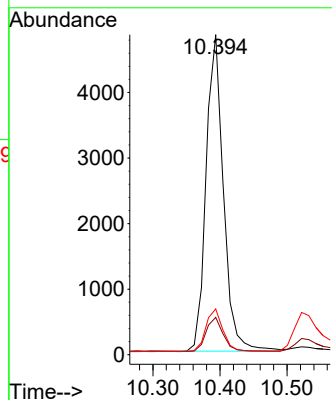
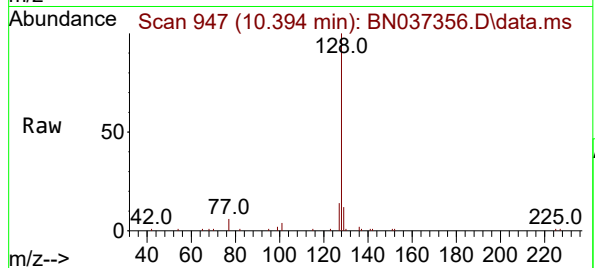




#9
Naphthalene
Concen: 0.783 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

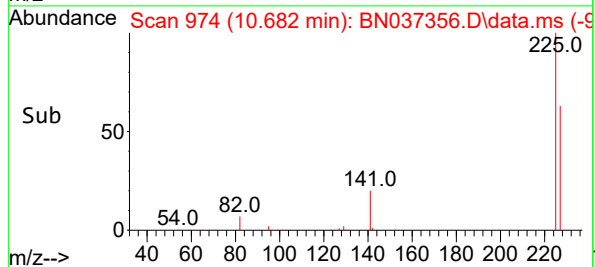
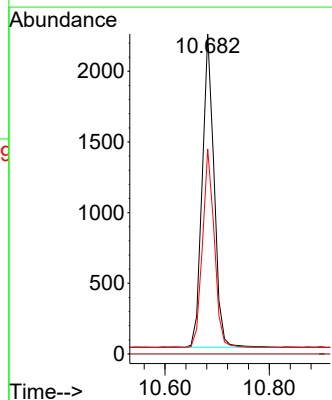
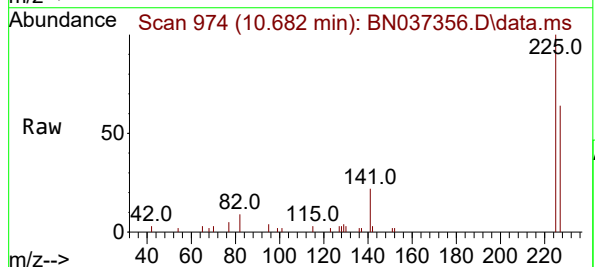
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

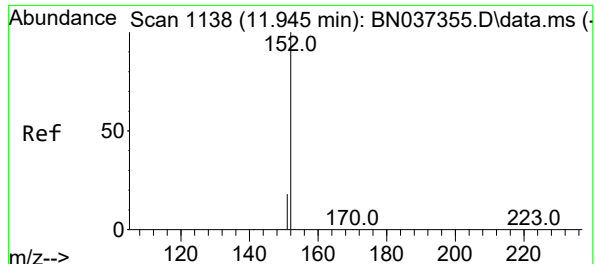
Tgt Ion:128 Resp: 8659
Ion Ratio Lower Upper
128 100
129 11.7 14.0 21.0#
127 14.3 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.642 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:225 Resp: 3472
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.6 50.3 75.5

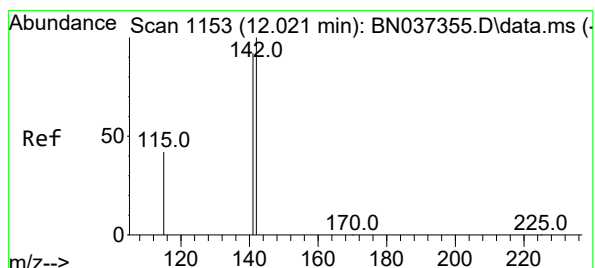
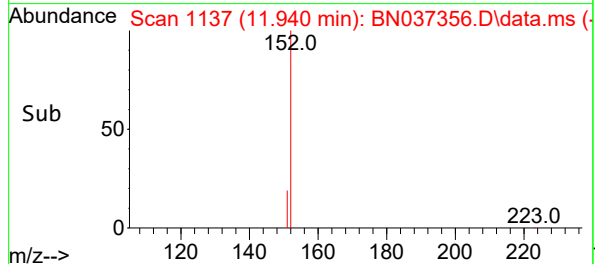
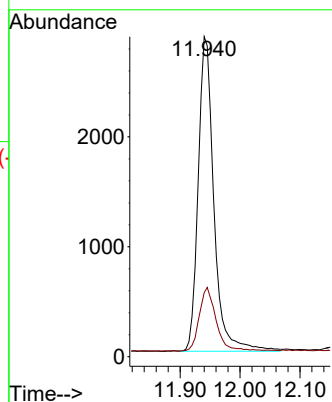
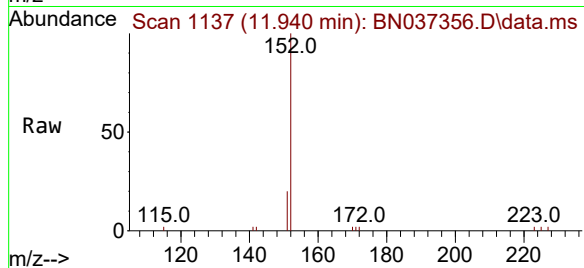




#11
2-Methylnaphthalene-d10
Concen: 0.754 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

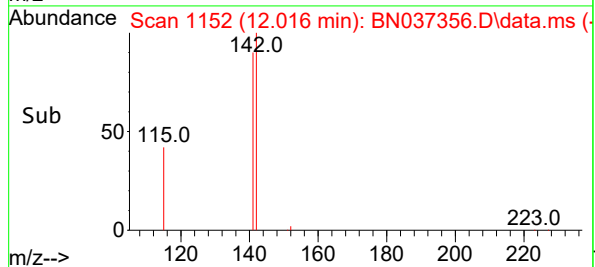
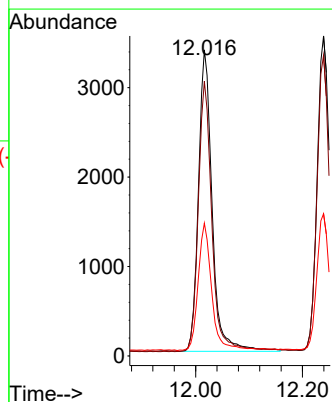
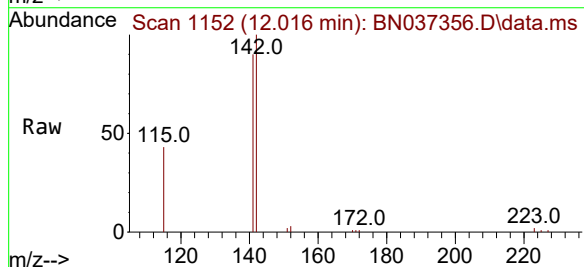
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

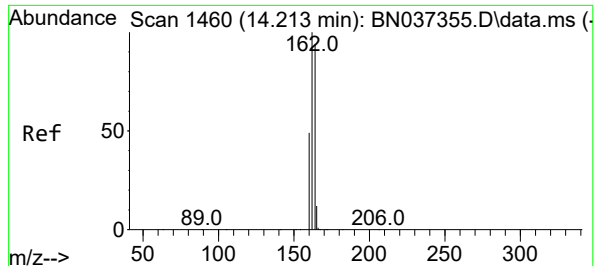
Tgt Ion:152 Resp: 5209
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.772 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:142 Resp: 6007
Ion Ratio Lower Upper
142 100
141 89.7 70.2 105.2
115 43.4 43.0 64.4

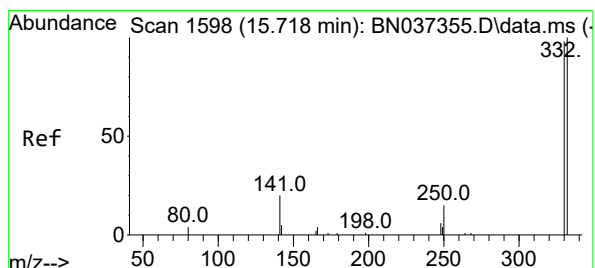
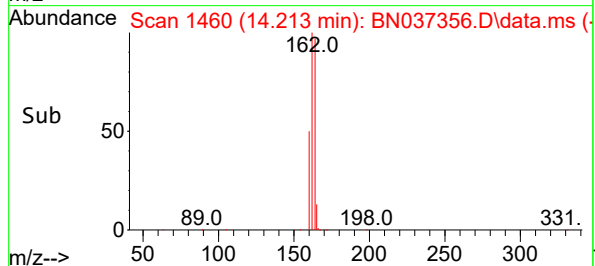
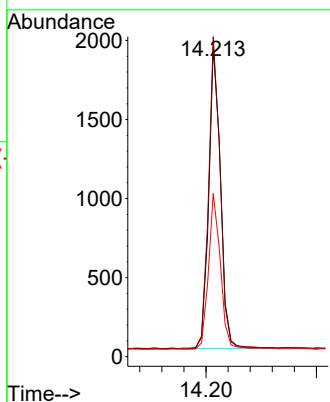
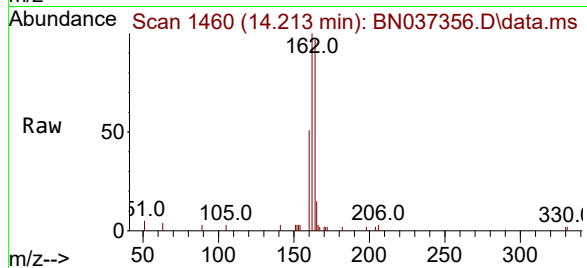




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

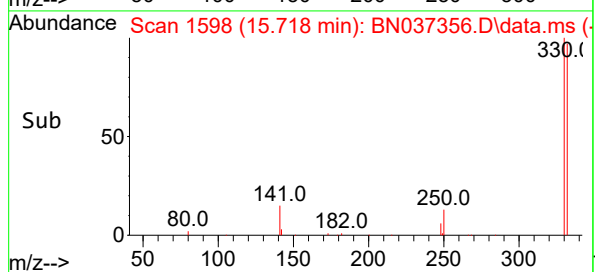
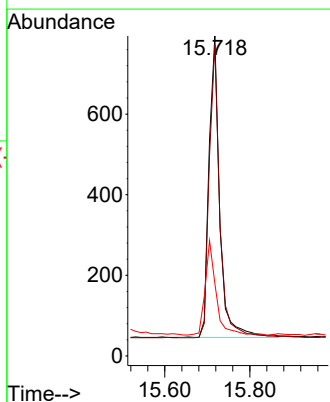
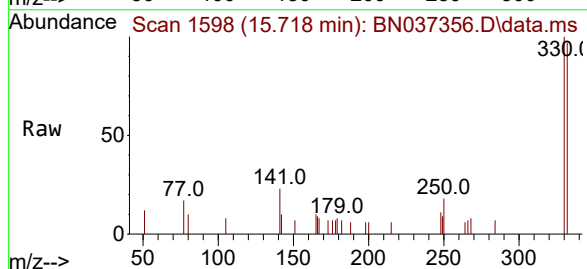
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

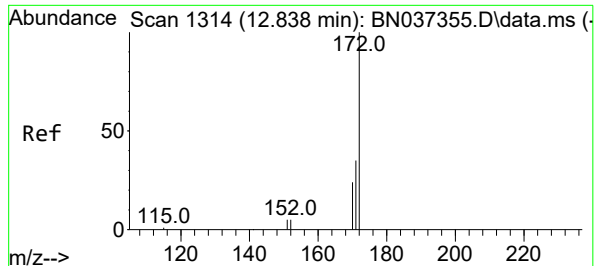
Tgt Ion:164 Resp: 2836
Ion Ratio Lower Upper
164 100
162 103.4 81.5 122.3
160 52.7 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.646 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:330 Resp: 1310
Ion Ratio Lower Upper
330 100
332 96.3 78.4 117.6
141 32.2 24.4 36.6





#15

2-Fluorobiphenyl

Concen: 0.781 ng

RT: 12.838 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

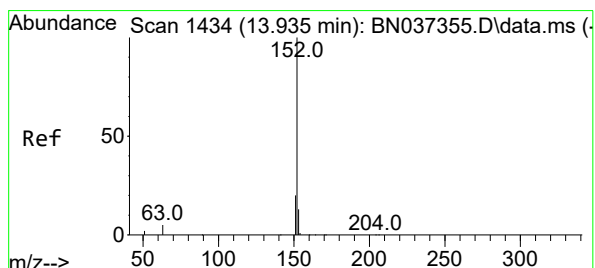
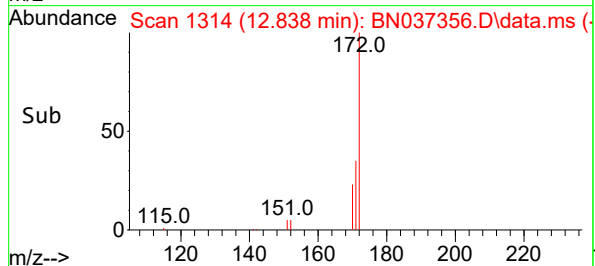
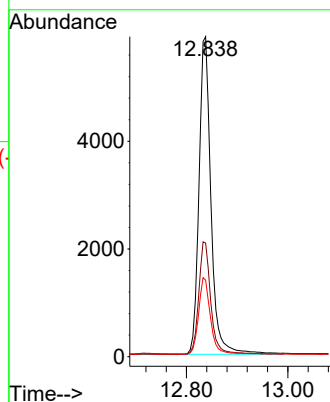
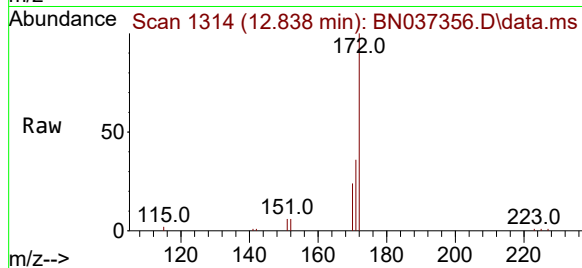
Tgt Ion:172 Resp: 9720

Ion Ratio Lower Upper

172 100

171 35.5 30.8 46.2

170 23.9 21.9 32.9



#16

Acenaphthylene

Concen: 0.760 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

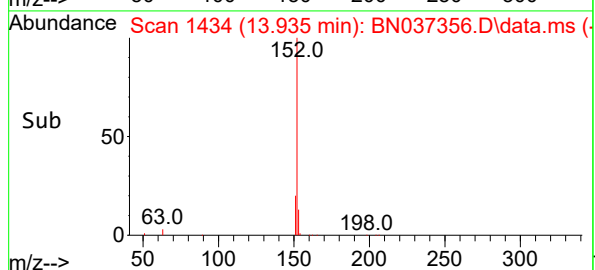
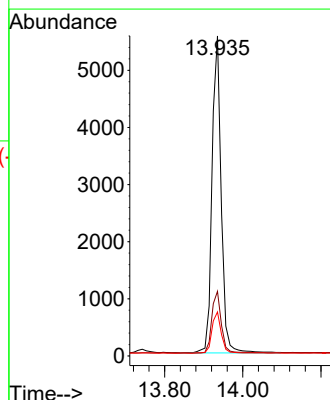
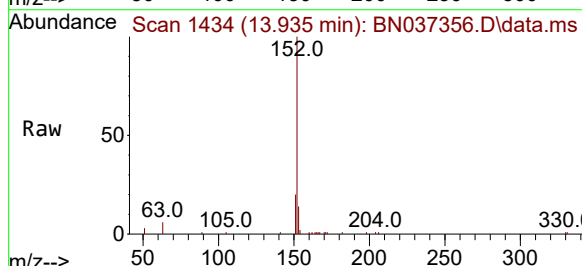
Tgt Ion:152 Resp: 9047

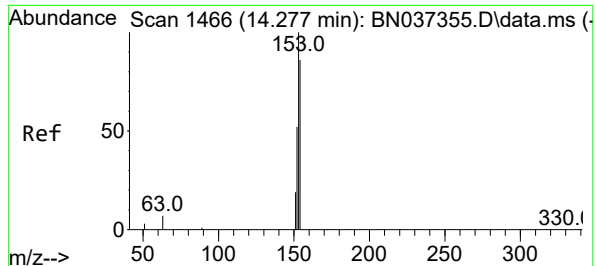
Ion Ratio Lower Upper

152 100

151 20.1 16.6 24.8

153 13.4 10.2 15.2

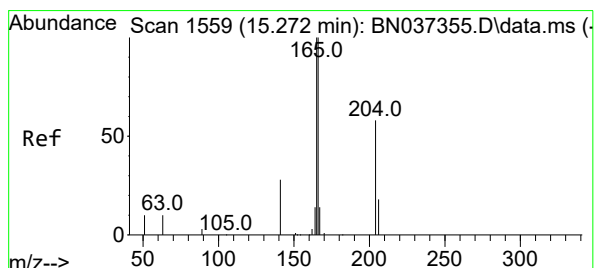
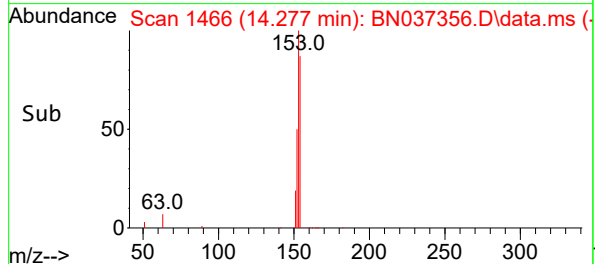
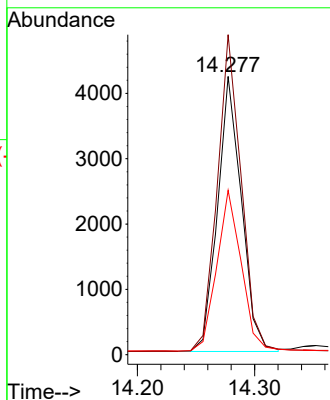
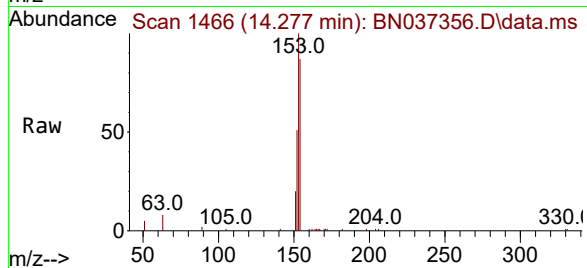




#17
Acenaphthene
Concen: 0.755 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

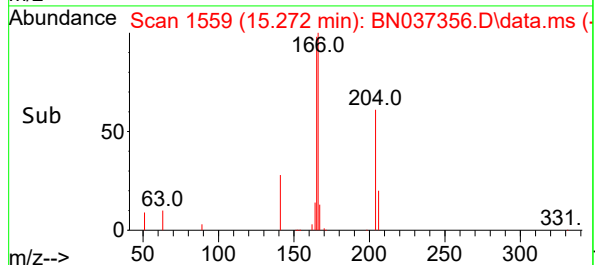
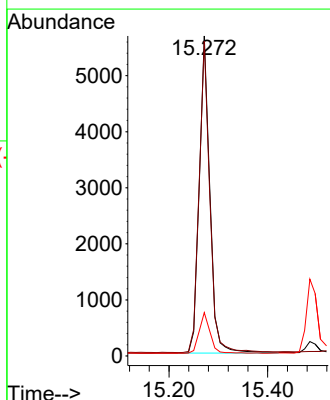
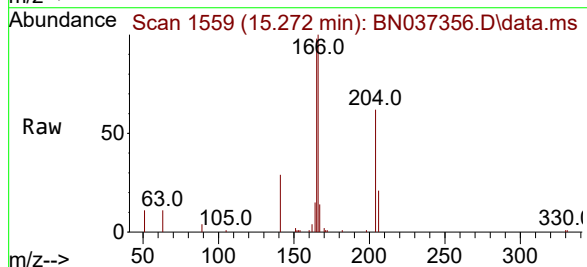
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

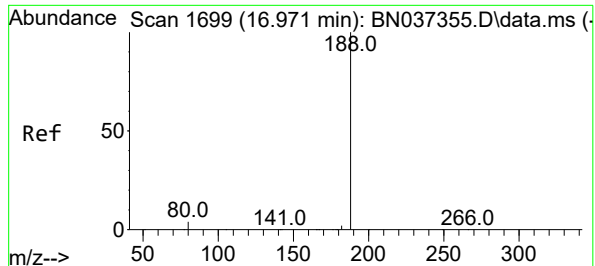
Tgt Ion:154 Resp: 5960
Ion Ratio Lower Upper
154 100
153 116.3 93.1 139.7
152 60.6 48.6 73.0



#18
Fluorene
Concen: 0.756 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:166 Resp: 8453
Ion Ratio Lower Upper
166 100
165 99.0 79.5 119.3
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

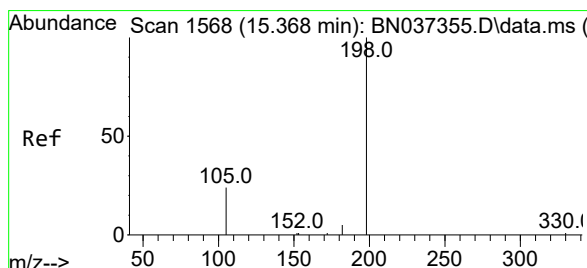
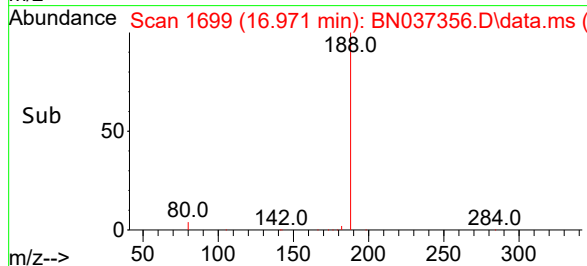
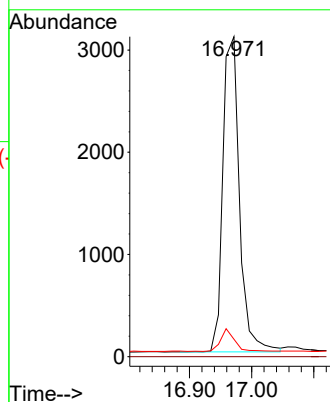
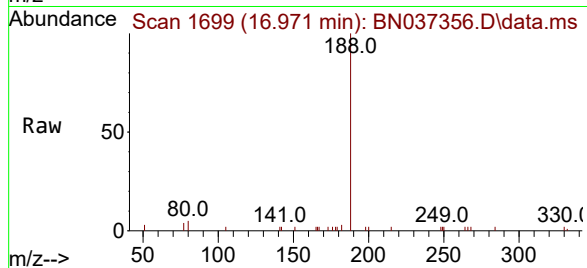
Tgt Ion:188 Resp: 5716

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.5 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.641 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

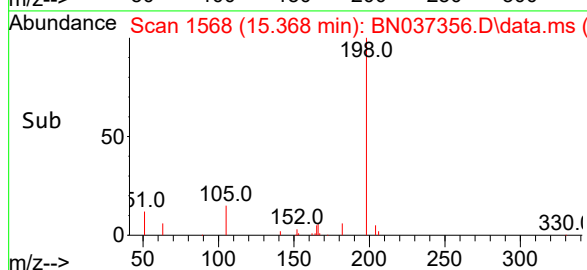
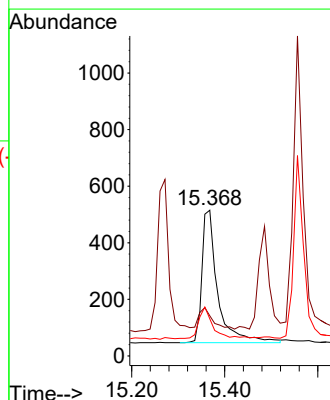
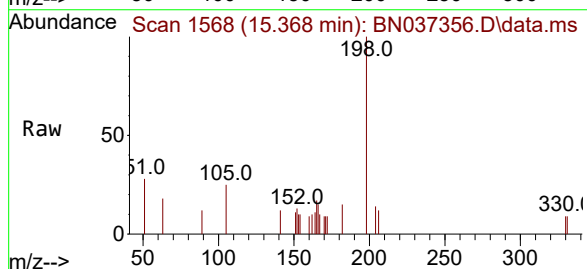
Tgt Ion:198 Resp: 1108

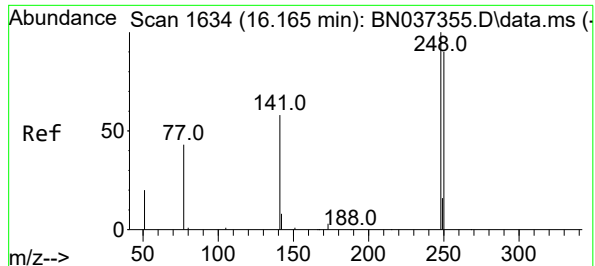
Ion Ratio Lower Upper

198 100

51 27.6 51.4 77.0#

105 25.4 45.5 68.3#

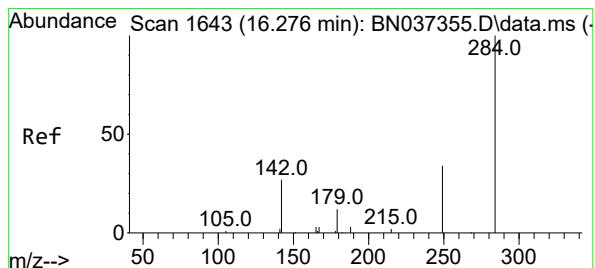
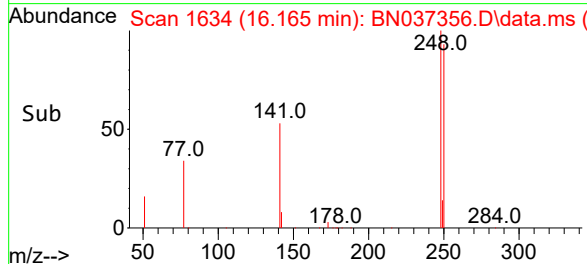
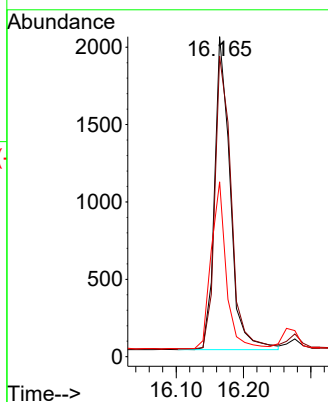
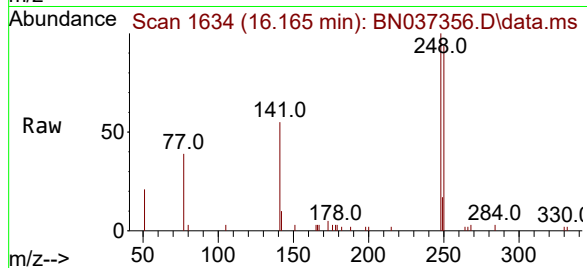




#21
4-Bromophenyl-phenylether
Concen: 0.697 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

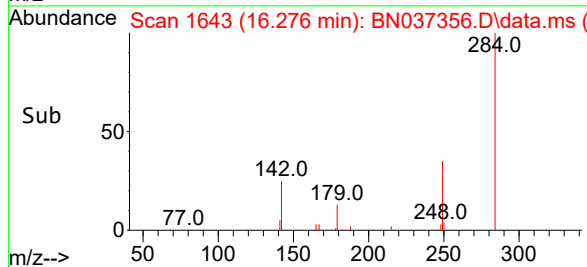
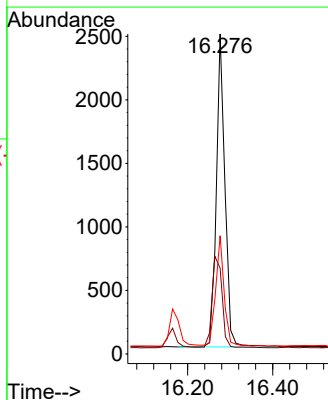
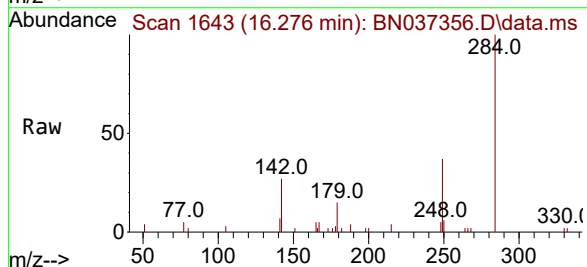
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

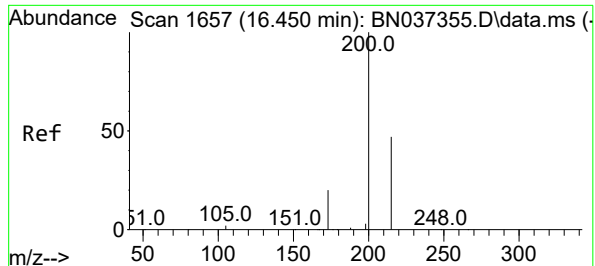
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	80.4	120.6
141	54.6	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.713 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.9	27.0	40.6
249	34.1	28.8	43.2

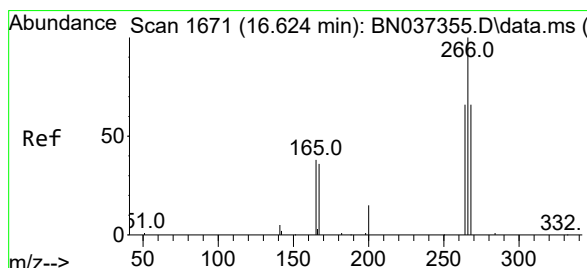
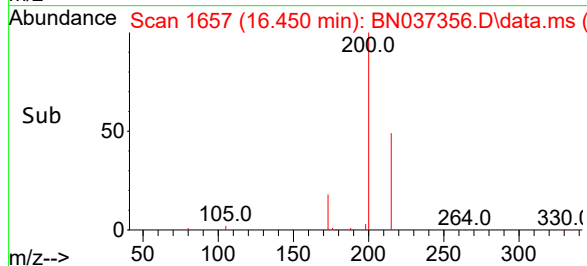
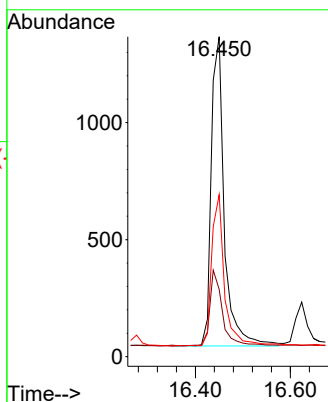
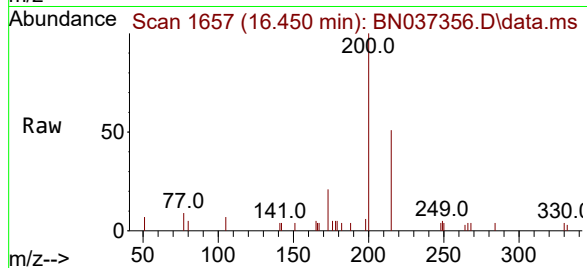




#23
Atrazine
Concen: 0.689 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

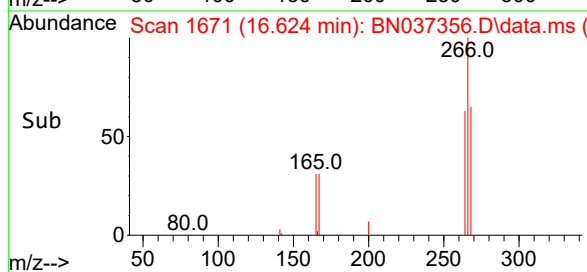
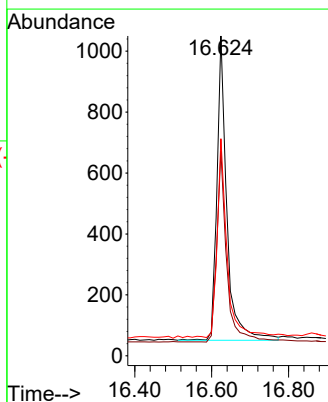
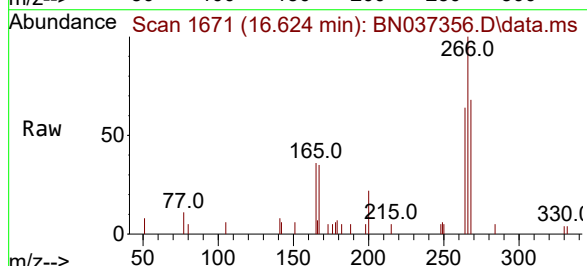
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

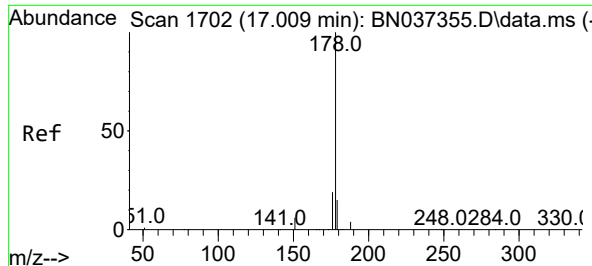
Tgt Ion:200 Resp: 2516
Ion Ratio Lower Upper
200 100
173 21.1 29.2 43.8#
215 50.6 48.8 73.2



#24
Pentachlorophenol
Concen: 0.673 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:266 Resp: 1797
Ion Ratio Lower Upper
266 100
264 61.8 50.3 75.5
268 63.2 55.3 82.9

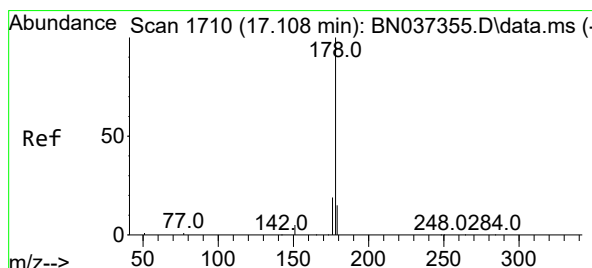
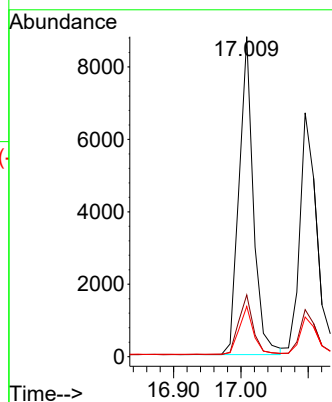
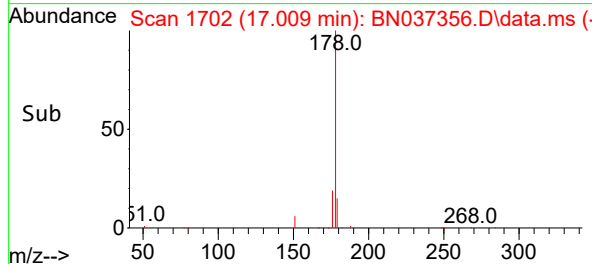
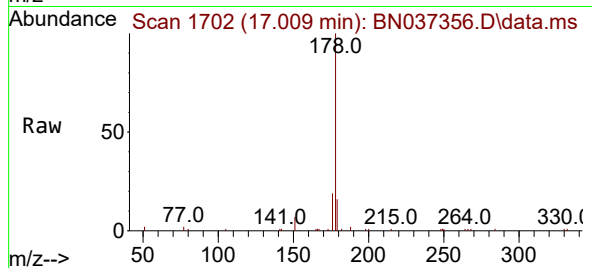




#25
Phenanthrene
Concen: 0.806 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

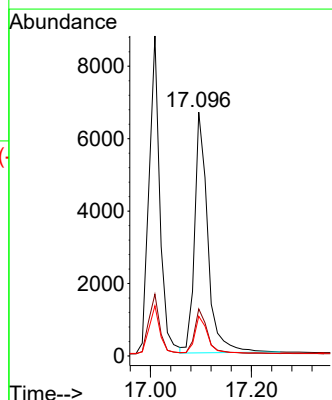
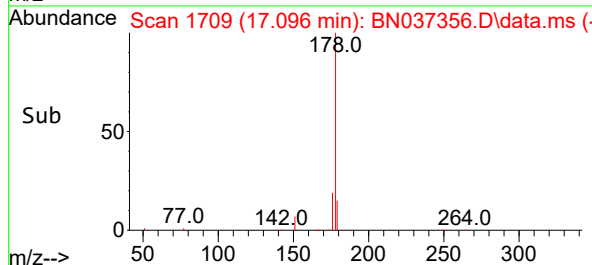
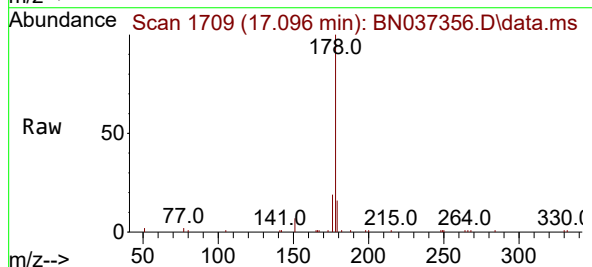
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

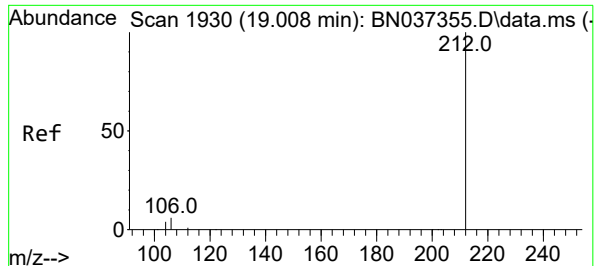
Tgt Ion:178 Resp: 13016
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.2 12.9 19.3



#26
Anthracene
Concen: 0.799 ng
RT: 17.096 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:178 Resp: 12050
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.6 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.749 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

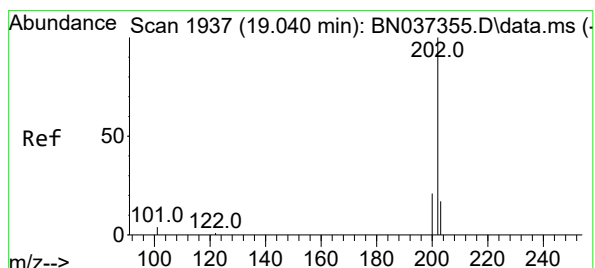
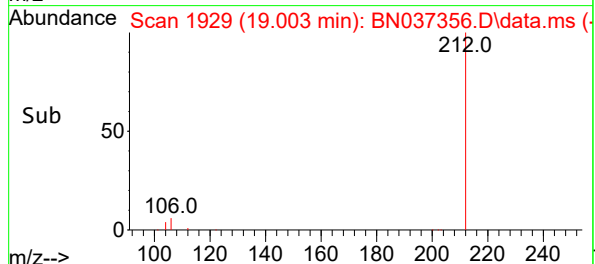
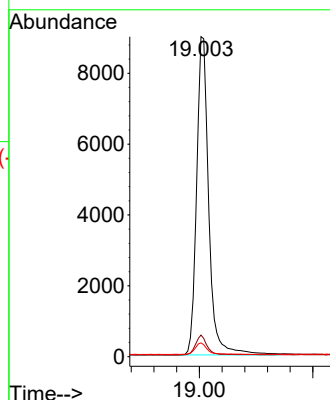
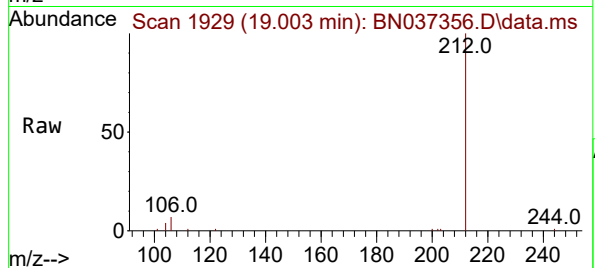
Tgt Ion:212 Resp: 13334

Ion Ratio Lower Upper

212 100

106 5.9 3.0 4.4#

104 3.6 2.0 3.0#



#28

Fluoranthene

Concen: 0.772 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

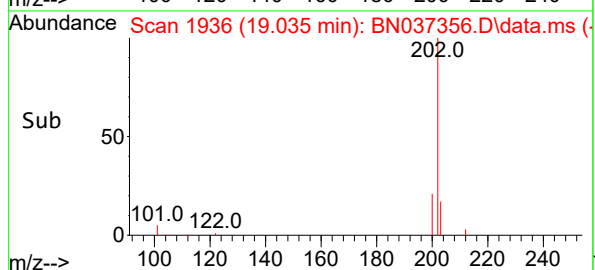
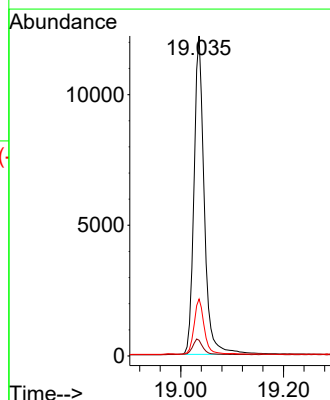
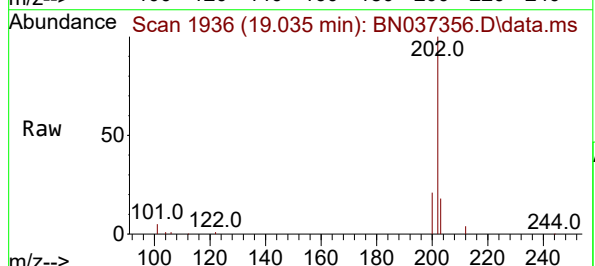
Tgt Ion:202 Resp: 17056

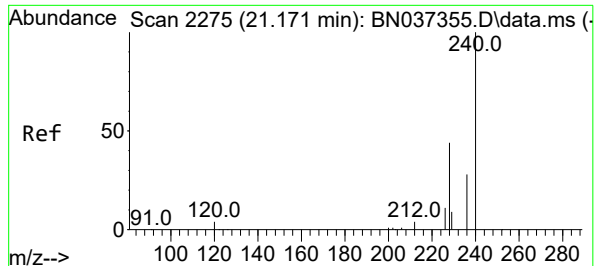
Ion Ratio Lower Upper

202 100

101 5.1 3.0 4.6#

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

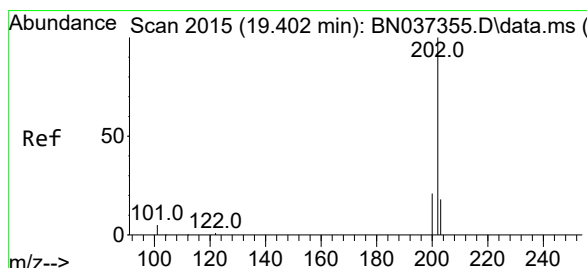
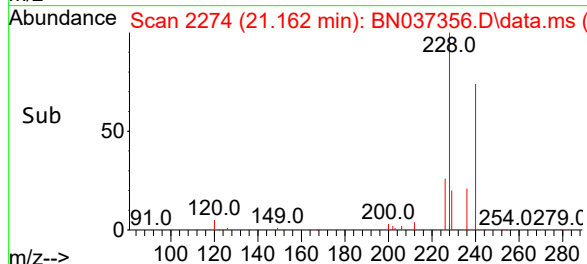
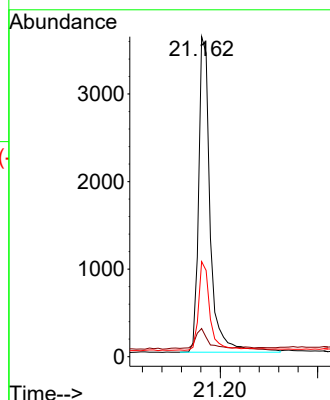
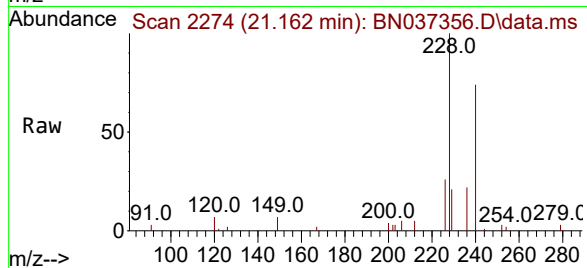
Tgt Ion:240 Resp: 5944

Ion Ratio Lower Upper

240 100

120 8.8 7.5 11.3

236 29.7 24.9 37.3



#30

Pyrene

Concen: 0.754 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

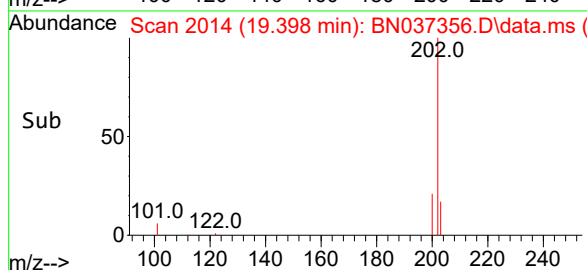
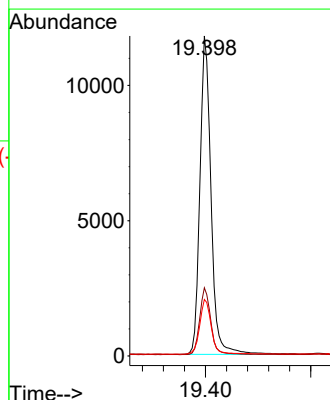
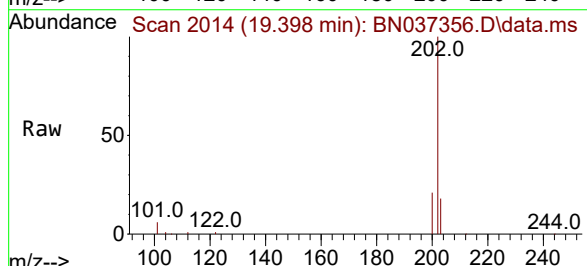
Tgt Ion:202 Resp: 17163

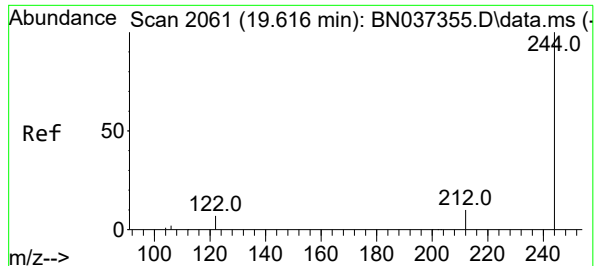
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.8 14.5 21.7

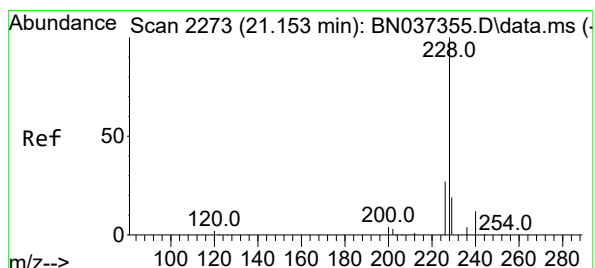
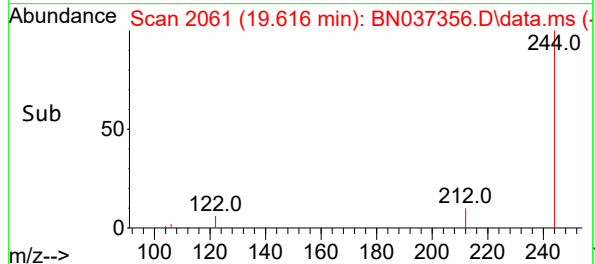
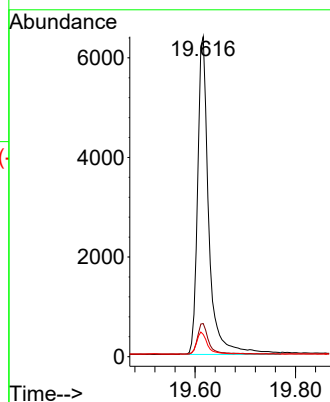
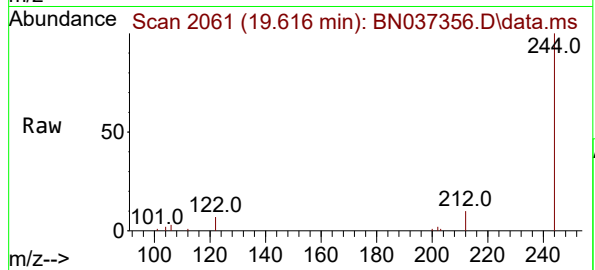




#31
Terphenyl-d14
Concen: 0.726 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

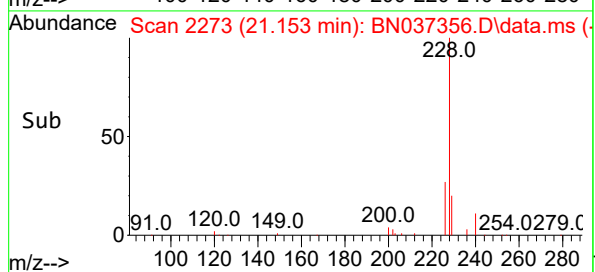
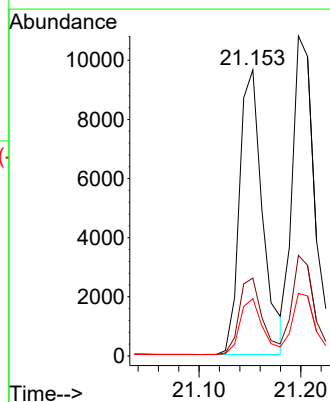
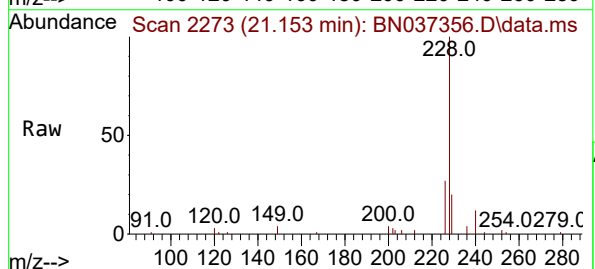
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

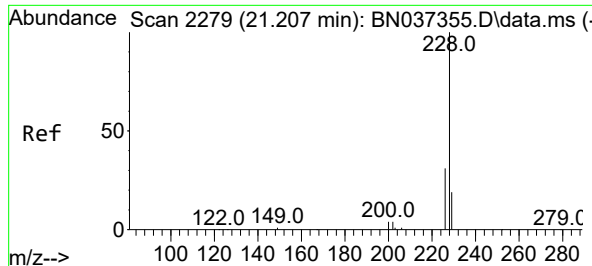
Tgt Ion:244 Resp: 9859
Ion Ratio Lower Upper
244 100
212 10.4 11.1 16.7#
122 6.9 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 0.792 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:228 Resp: 15193
Ion Ratio Lower Upper
228 100
226 27.3 23.0 34.4
229 20.0 17.4 26.0





#33

Chrysene

Concen: 0.724 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

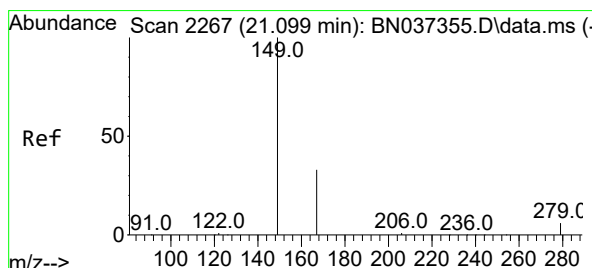
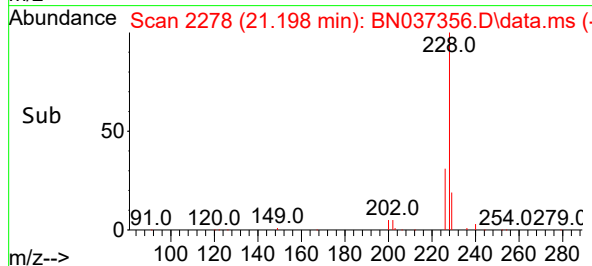
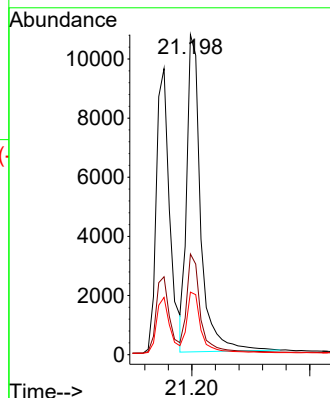
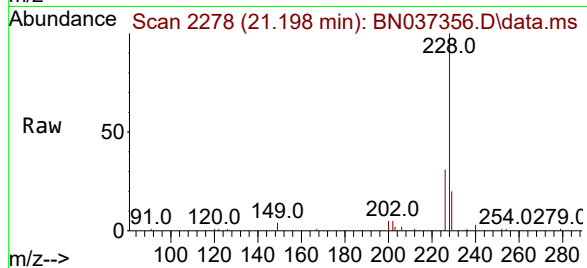
Tgt Ion:228 Resp: 17610

Ion Ratio Lower Upper

228 100

226 31.4 25.4 38.2

229 19.5 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.736 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

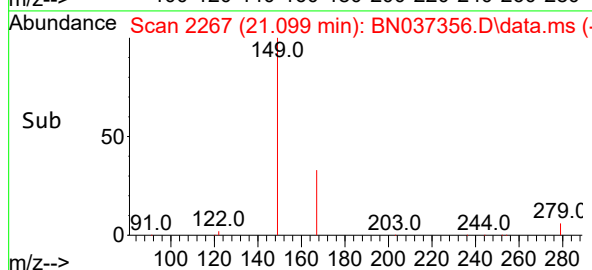
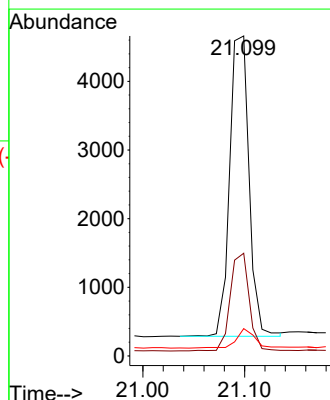
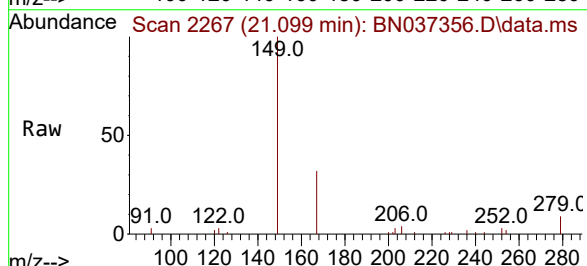
Tgt Ion:149 Resp: 5787

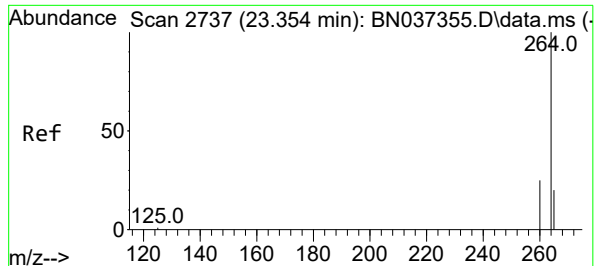
Ion Ratio Lower Upper

149 100

167 31.8 24.6 37.0

279 6.2 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

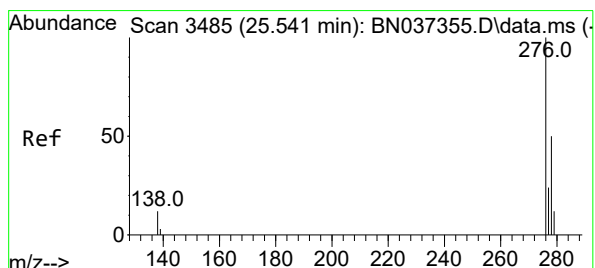
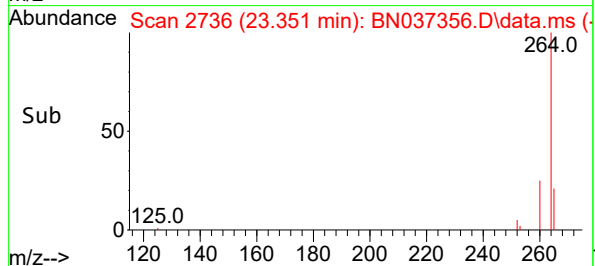
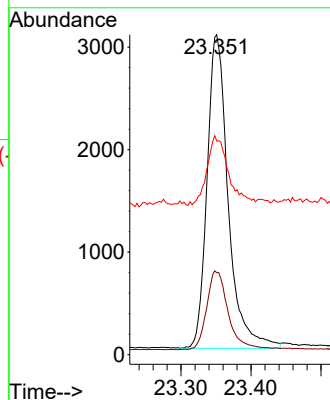
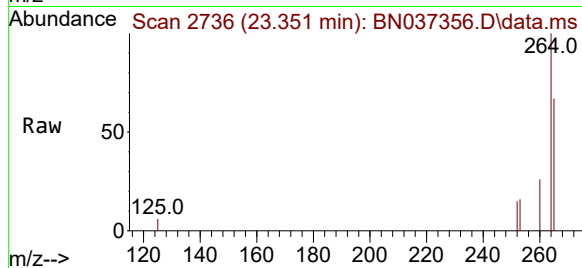
Tgt Ion:264 Resp: 6423

Ion Ratio Lower Upper

264 100

260 25.7 21.4 32.2

265 66.8 71.4 107.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.831 ng

RT: 25.535 min Scan# 3483

Delta R.T. -0.006 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

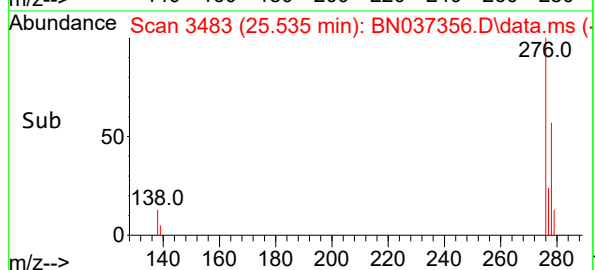
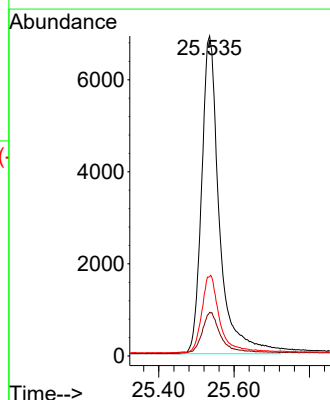
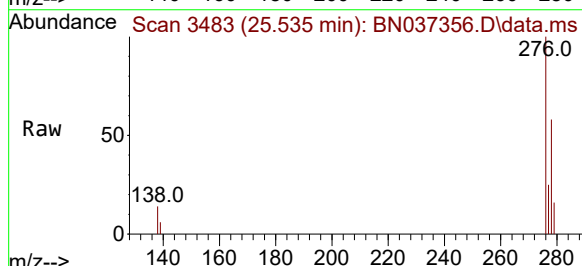
Tgt Ion:276 Resp: 22625

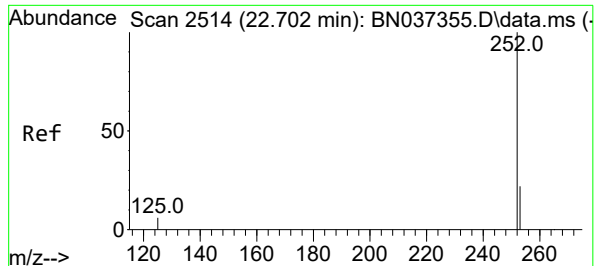
Ion Ratio Lower Upper

276 100

138 12.3 2.2 3.2#

277 24.3 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.785 ng

RT: 22.696 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037356.D

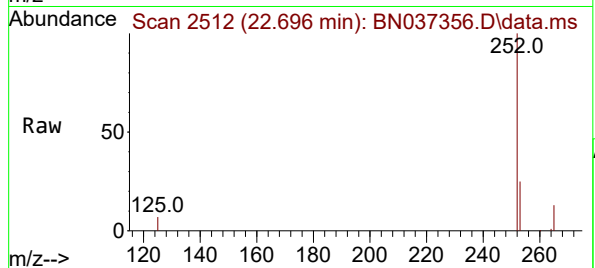
Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



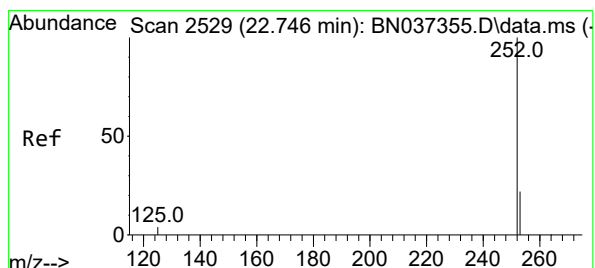
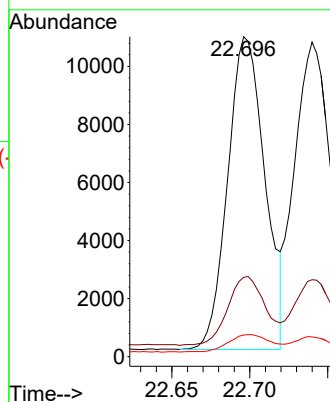
Tgt Ion:252 Resp: 17878

Ion Ratio Lower Upper

252 100

253 24.8 26.6 40.0#

125 6.7 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 0.761 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

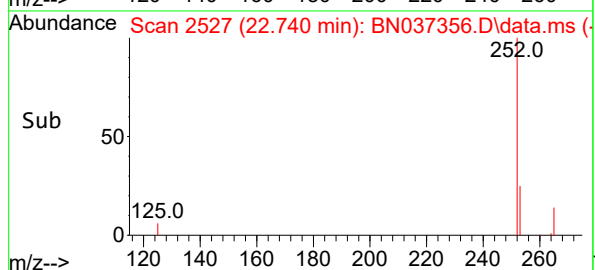
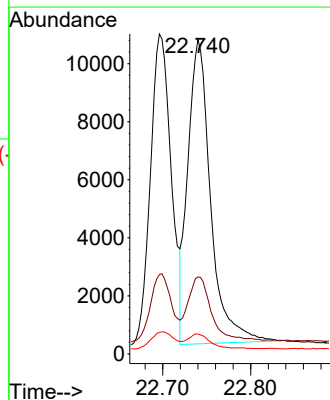
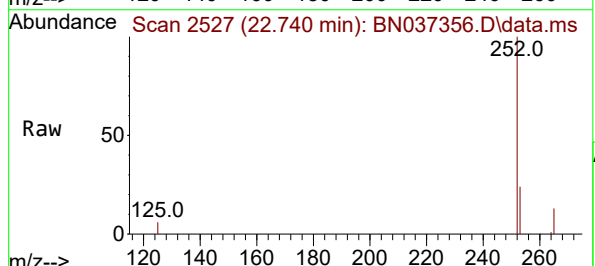
Tgt Ion:252 Resp: 18833

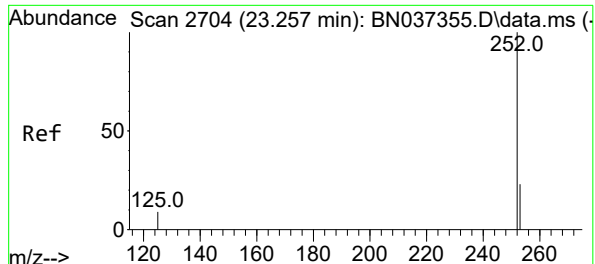
Ion Ratio Lower Upper

252 100

253 24.4 26.7 40.1#

125 6.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.769 ng

RT: 23.257 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

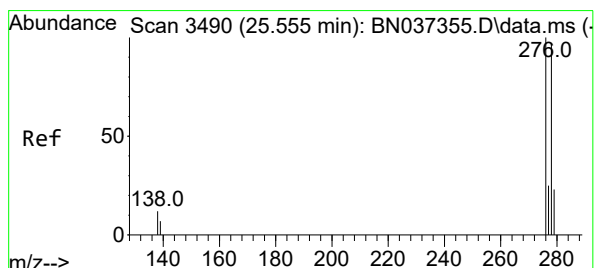
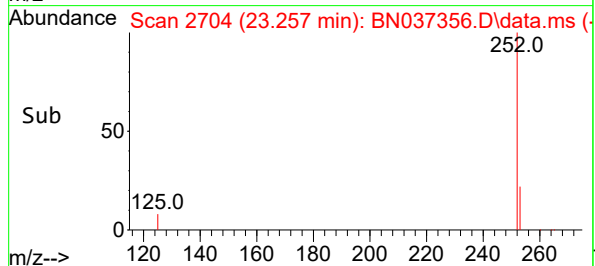
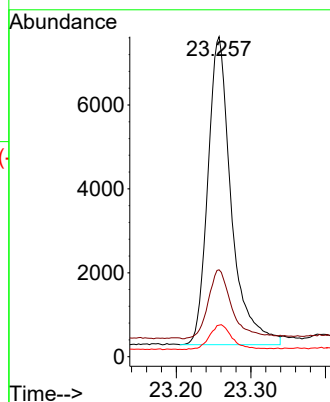
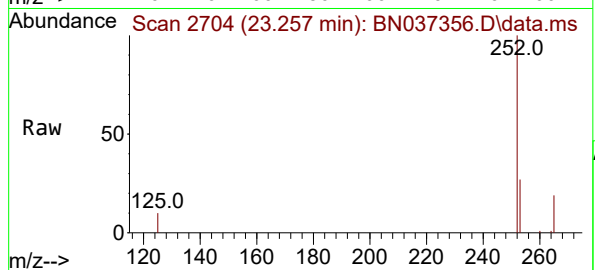
Tgt Ion:252 Resp: 16022

Ion Ratio Lower Upper

252 100

253 27.1 31.6 47.4#

125 9.9 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.803 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.009 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

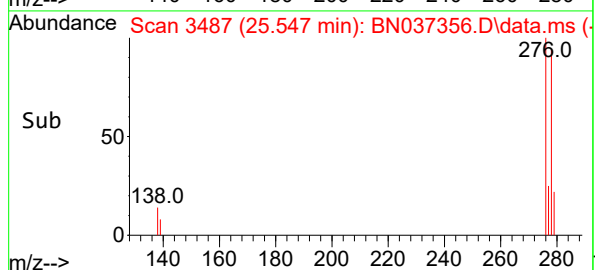
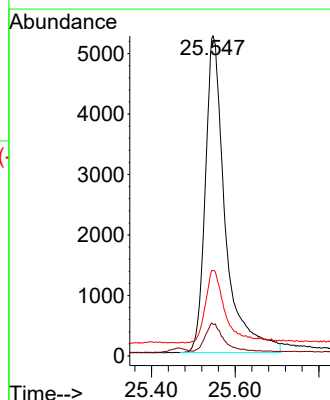
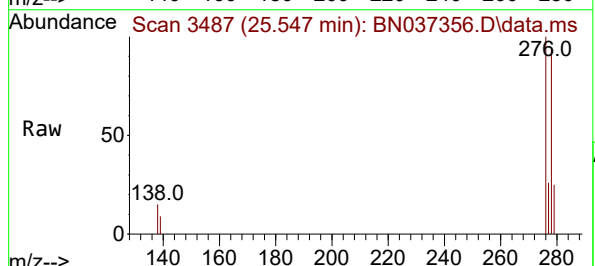
Tgt Ion:278 Resp: 17405

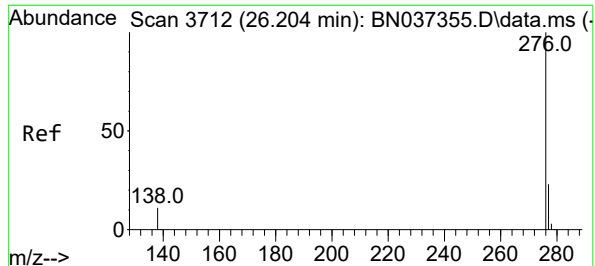
Ion Ratio Lower Upper

278 100

139 9.9 10.2 15.4#

279 26.7 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.801 ng

RT: 26.202 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037356.D

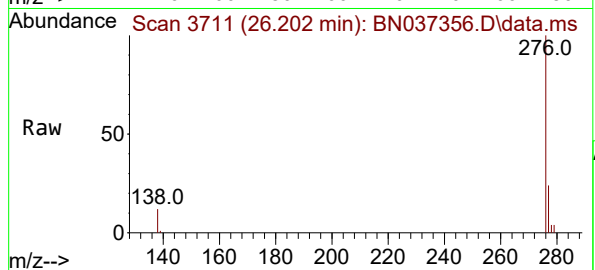
Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



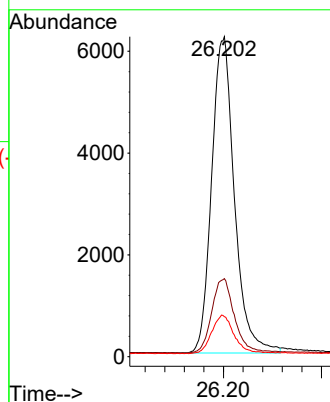
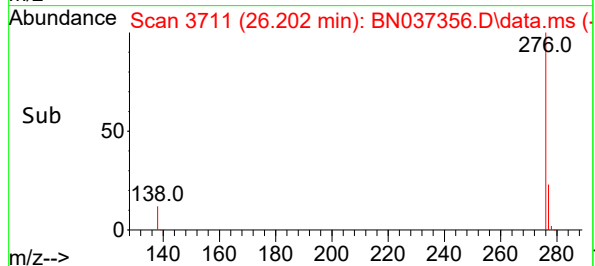
Tgt Ion:276 Resp: 20041

Ion Ratio Lower Upper

276 100

277 24.4 22.7 34.1

138 12.5 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037357.D
 Acq On : 20 Jun 2025 19:15
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 20 23:27:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

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

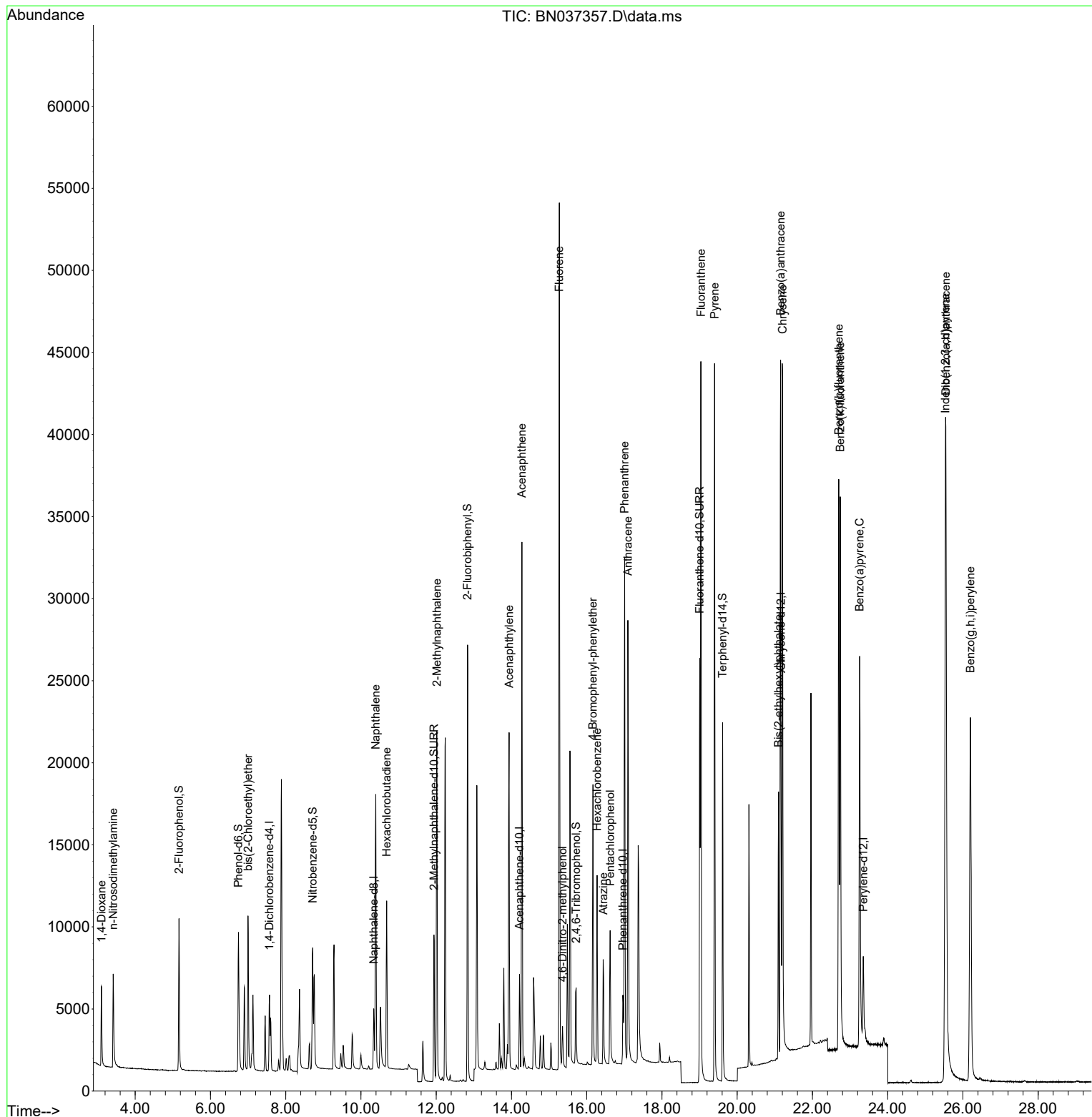
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2270	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4835	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	3136	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6455	0.400	ng	-0.01
29) Chrysene-d12	21.162	240	6604	0.400	ng	0.00
35) Perylene-d12	23.351	264	7013	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	7577	1.826	ng	0.00
5) Phenol-d6	6.744	99	8087	1.969	ng	0.00
8) Nitrobenzene-d5	8.717	82	7020	1.749	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	12882	1.647	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	3170	1.413	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	23802	1.730	ng	0.00
27) Fluoranthene-d10	19.003	212	31876	1.586	ng	0.00
31) Terphenyl-d14	19.612	244	24025	1.593	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	3788	1.889	ng	92
3) n-Nitrosodimethylamine	3.415	42	3553	1.522	ng	# 73
6) bis(2-Chloroethyl)ether	6.997	93	7504	2.088	ng	96
9) Naphthalene	10.394	128	21372	1.705	ng	# 86
10) Hexachlorobutadiene	10.682	225	8200	1.339	ng	# 99
12) 2-Methylnaphthalene	12.016	142	15021	1.704	ng	# 92
16) Acenaphthylene	13.935	152	22546	1.713	ng	98
17) Acenaphthene	14.277	154	14727	1.688	ng	99
18) Fluorene	15.272	166	20827	1.684	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	2836	1.453	ng	# 49
21) 4-Bromophenyl-phenylether	16.165	248	7869	1.493	ng	# 91
22) Hexachlorobenzene	16.276	284	8354	1.519	ng	97
23) Atrazine	16.438	200	6166	1.495	ng	# 83
24) Pentachlorophenol	16.624	266	4361	1.445	ng	96
25) Phenanthrene	17.009	178	32059	1.758	ng	99
26) Anthracene	17.096	178	29693	1.743	ng	99
28) Fluoranthene	19.035	202	41430	1.660	ng	# 99
30) Pyrene	19.398	202	41513	1.642	ng	100
32) Benzo(a)anthracene	21.153	228	37793	1.773	ng	97
33) Chrysene	21.207	228	41889	1.550	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	13738	1.573	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.535	276	55371	1.863	ng	# 91
37) Benzo(b)fluoranthene	22.699	252	43215	1.738	ng	# 85
38) Benzo(k)fluoranthene	22.740	252	46879	1.736	ng	# 85
39) Benzo(a)pyrene	23.255	252	39242	1.724	ng	# 78
40) Dibenzo(a,h)anthracene	25.547	278	43786	1.849	ng	# 74
41) Benzo(g,h,i)perylene	26.199	276	48259	1.767	ng	94

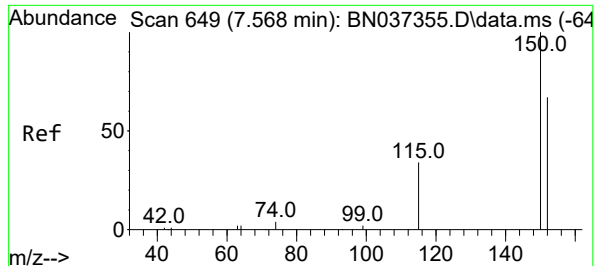
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037357.D
Acq On : 20 Jun 2025 19:15
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 20 23:27:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

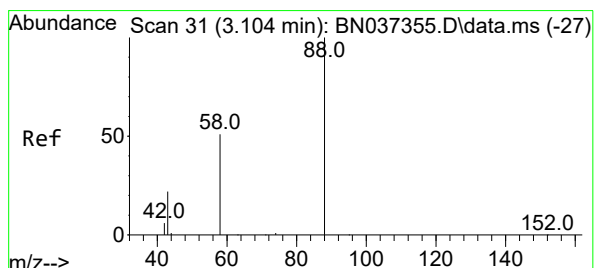
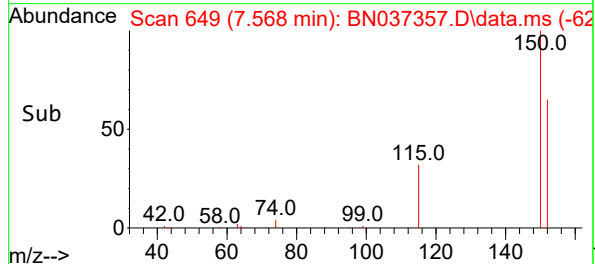
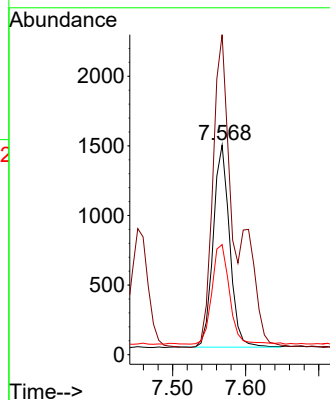
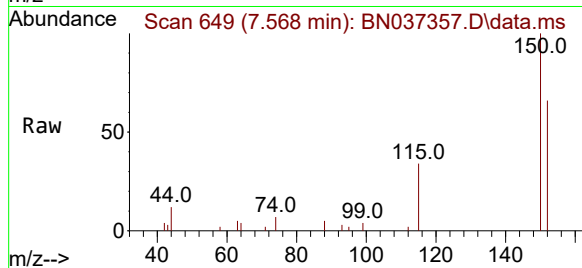




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

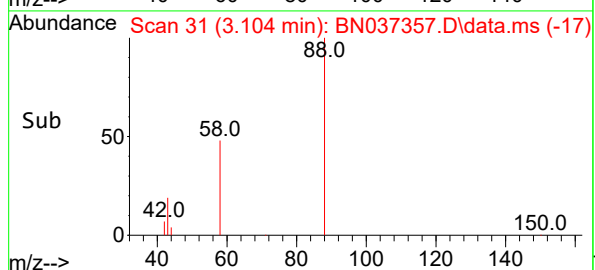
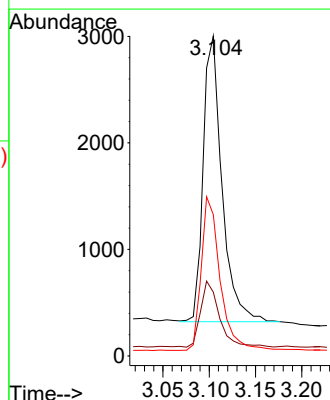
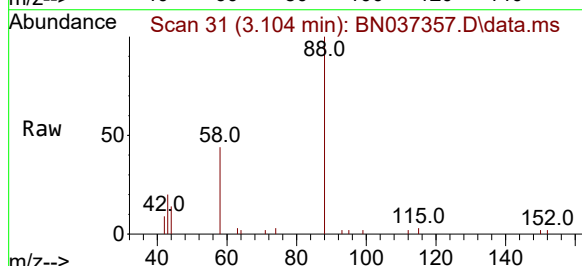
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

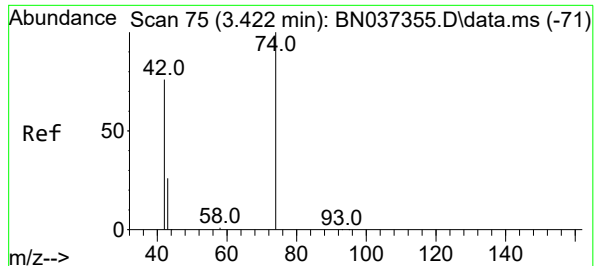
Tgt Ion:152 Resp: 2270
Ion Ratio Lower Upper
152 100
150 152.7 112.7 169.1
115 52.5 45.9 68.9



#2
1,4-Dioxane
Concen: 1.889 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 88 Resp: 3788
Ion Ratio Lower Upper
88 100
43 22.8 21.0 31.6
58 53.7 38.0 57.0

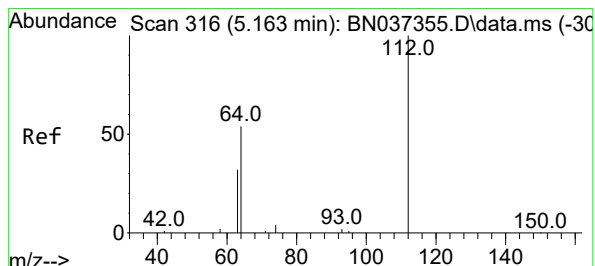
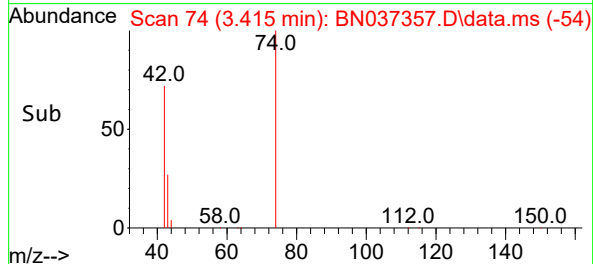
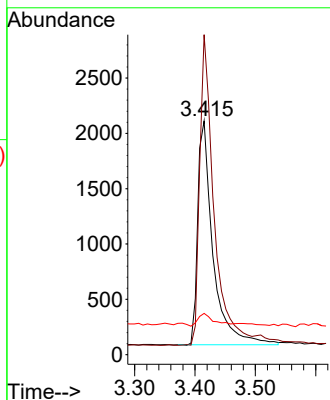
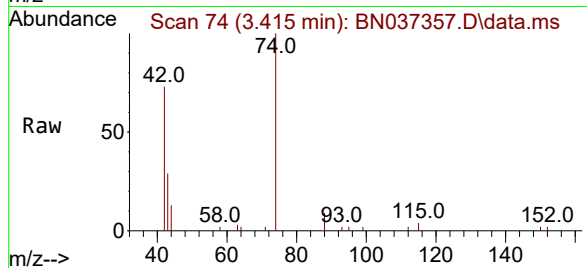




#3
n-Nitrosodimethylamine
Concen: 1.522 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

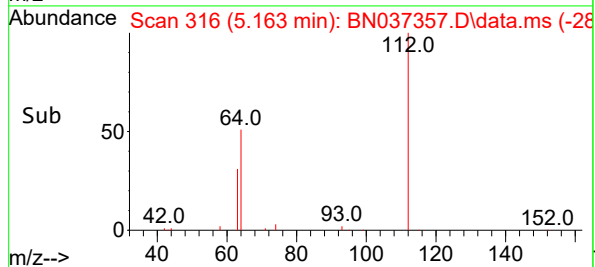
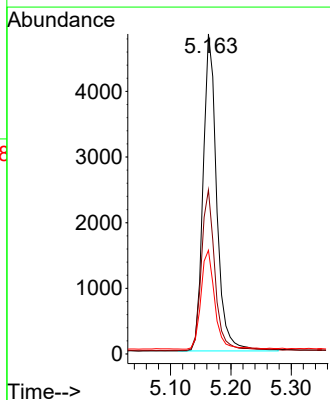
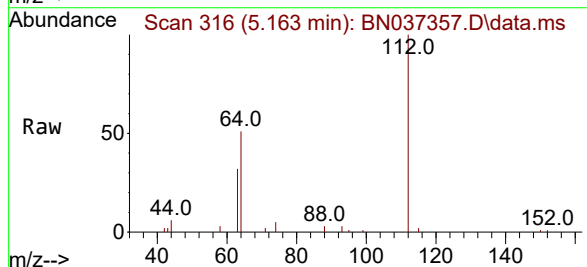
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

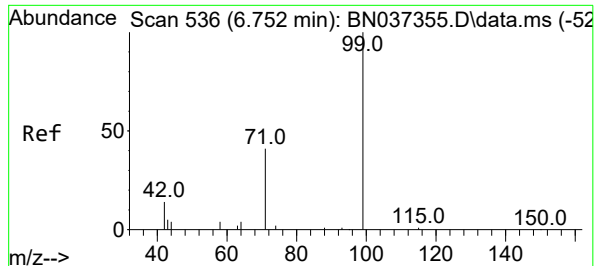
Tgt Ion: 42 Resp: 3553
Ion Ratio Lower Upper
42 100
74 134.8 84.3 126.5#
44 6.3 5.0 7.4



#4
2-Fluorophenol
Concen: 1.826 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 112 Resp: 7577
Ion Ratio Lower Upper
112 100
64 50.7 38.7 58.1
63 31.5 26.4 39.6

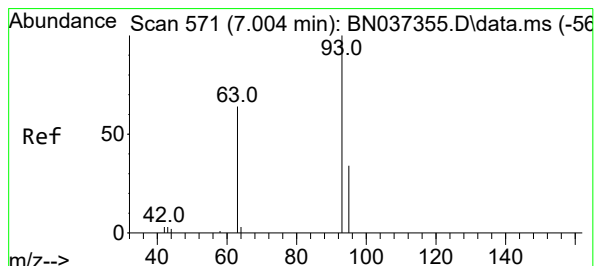
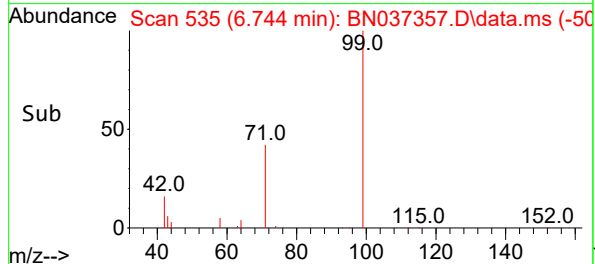
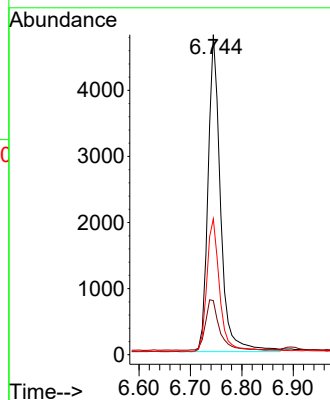
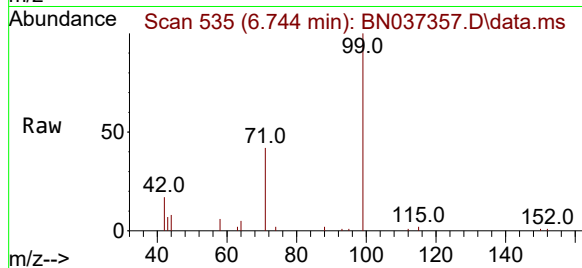




#5
Phenol-d6
Concen: 1.969 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

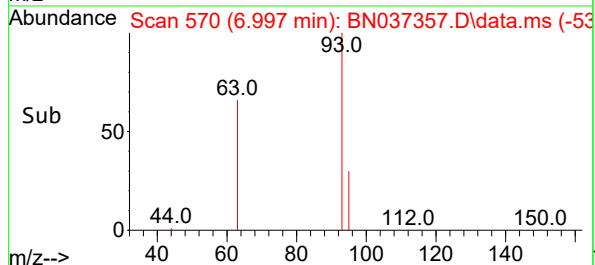
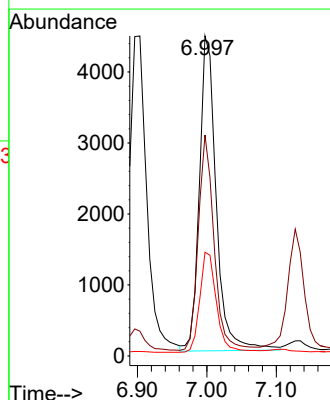
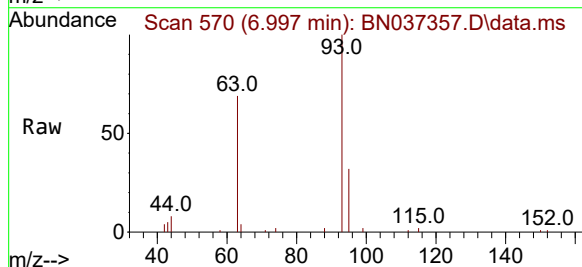
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

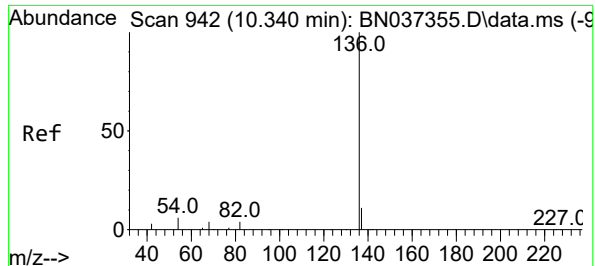
Tgt Ion: 99 Resp: 8087
Ion Ratio Lower Upper
99 100
42 18.1 19.8 29.8#
71 44.2 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 2.088 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 93 Resp: 7504
Ion Ratio Lower Upper
93 100
63 64.1 53.2 79.8
95 31.5 27.3 40.9

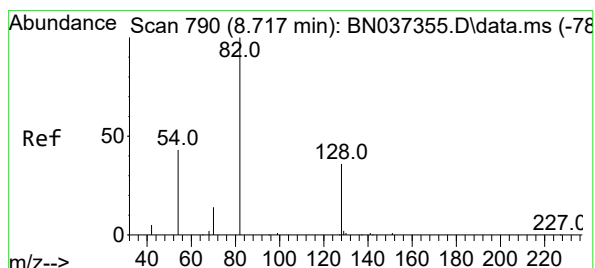
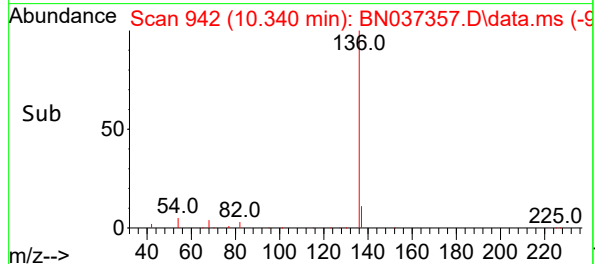
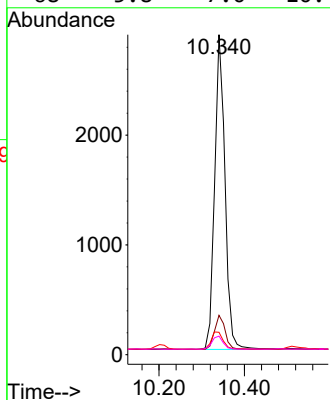
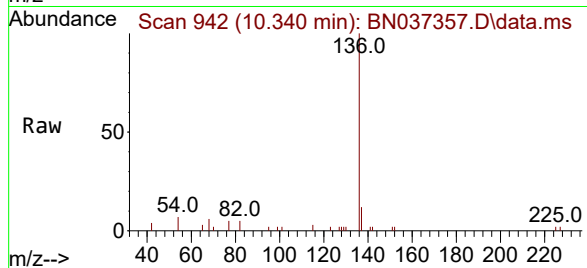




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

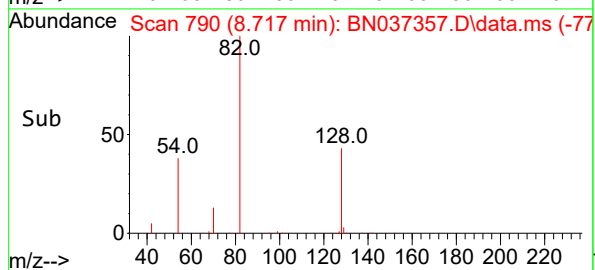
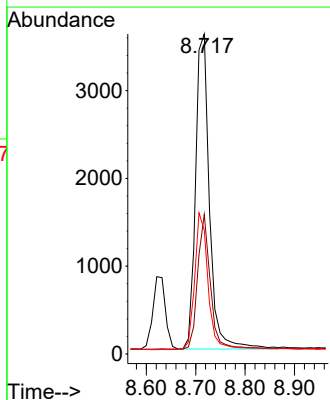
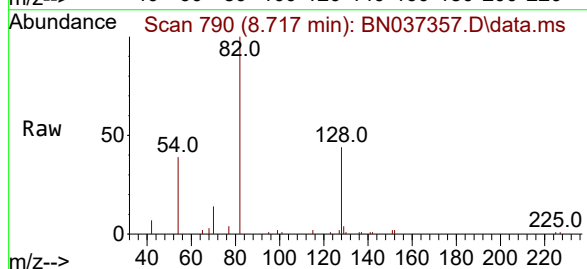
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

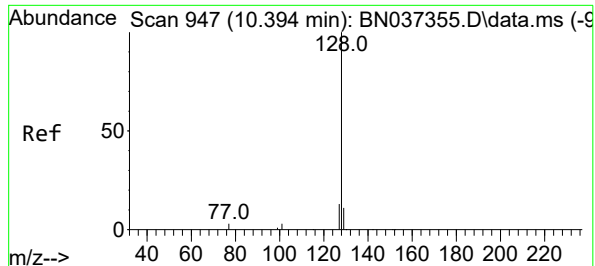
Tgt Ion:	136	Resp:	4835
Ion	Ratio	Lower	Upper
136	100		
137	12.3	12.2	18.2
54	7.0	8.8	13.2#
68	5.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 1.749 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:	82	Resp:	7020
Ion	Ratio	Lower	Upper
82	100		
128	43.6	42.5	63.7
54	38.7	43.2	64.8#

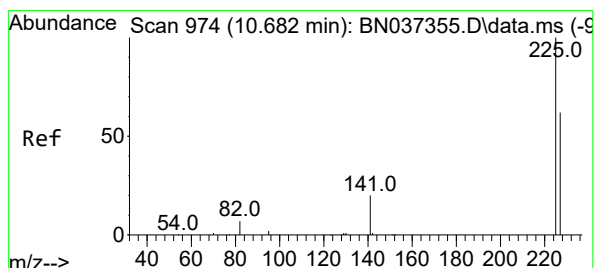
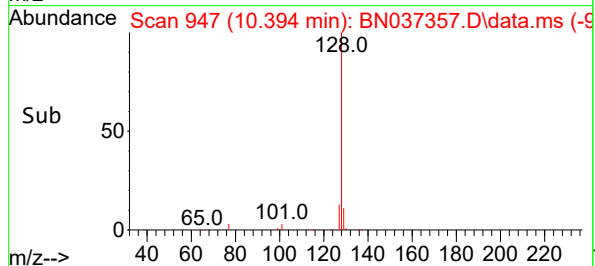
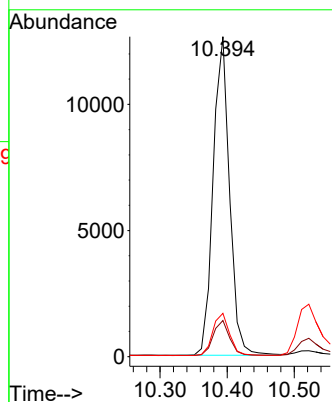
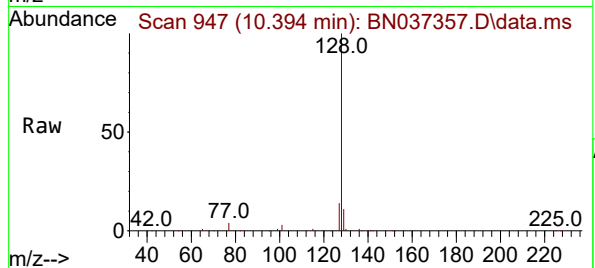




#9
Naphthalene
Concen: 1.705 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

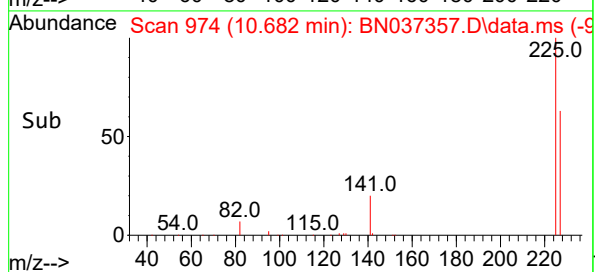
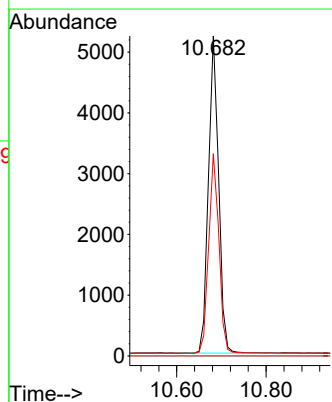
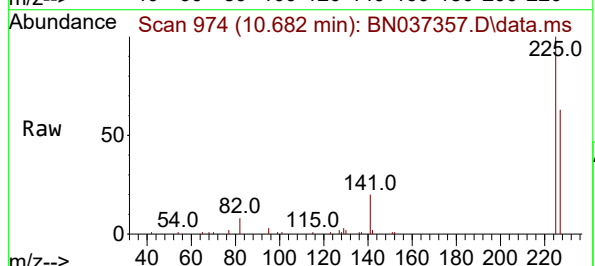
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

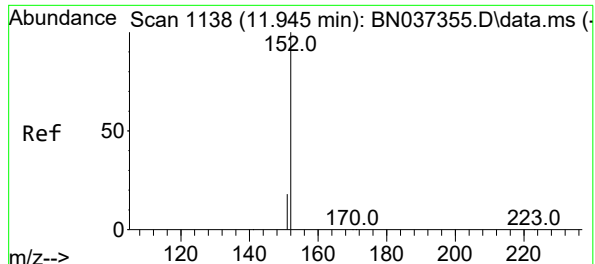
Tgt Ion:128 Resp: 21372
Ion Ratio Lower Upper
128 100
129 11.3 14.0 21.0#
127 13.6 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 1.339 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:225 Resp: 8200
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.3 75.5

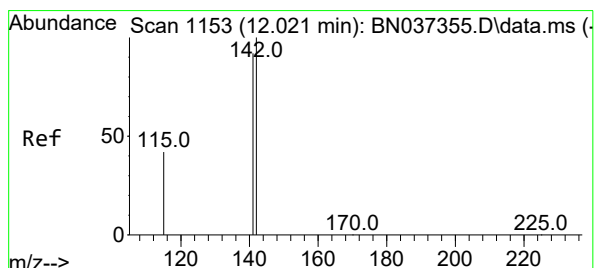
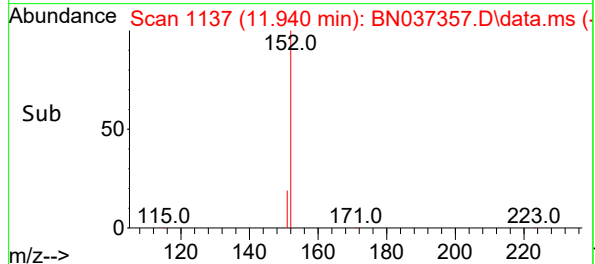
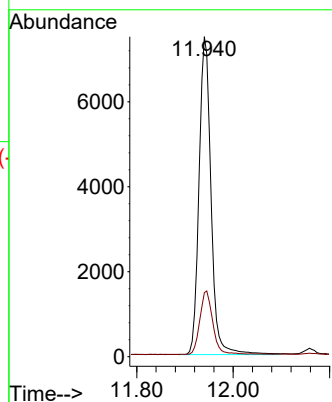
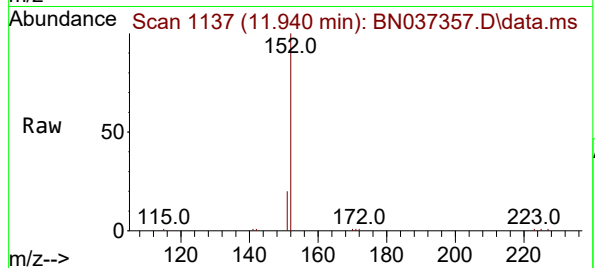




#11
2-Methylnaphthalene-d10
Concen: 1.647 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

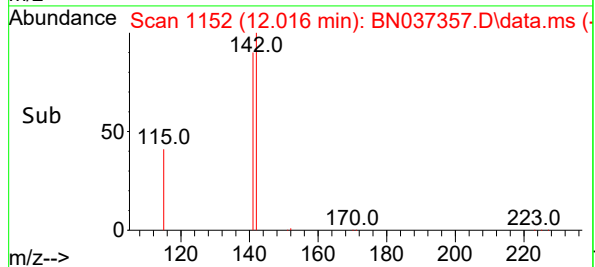
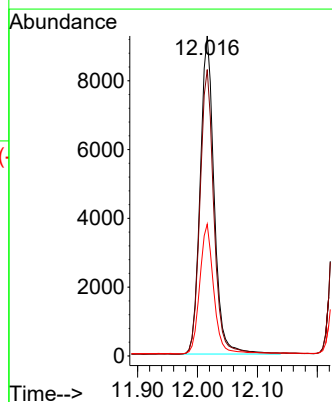
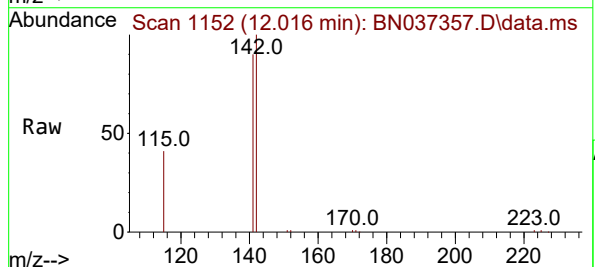
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

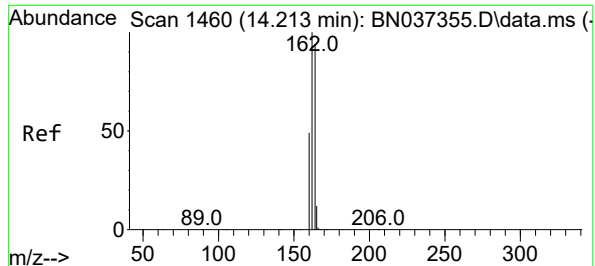
Tgt Ion:152 Resp: 12882
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.0



#12
2-Methylnaphthalene
Concen: 1.704 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:142 Resp: 15021
Ion Ratio Lower Upper
142 100
141 89.5 70.2 105.2
115 41.2 43.0 64.4#

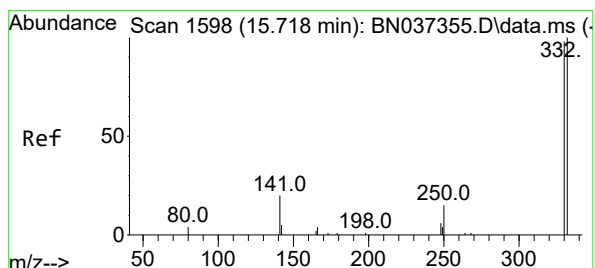
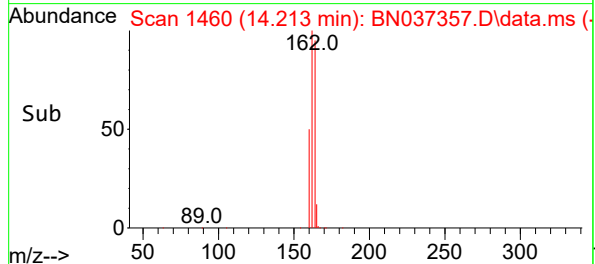
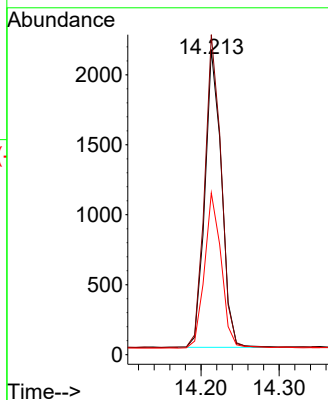
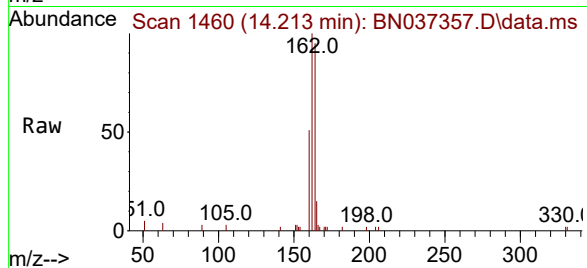




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

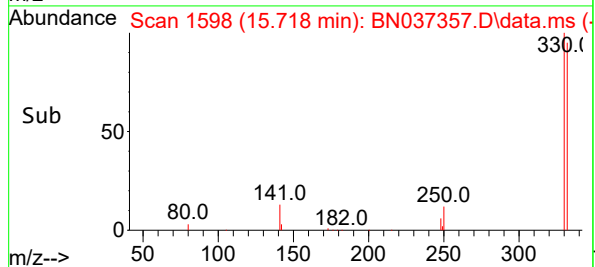
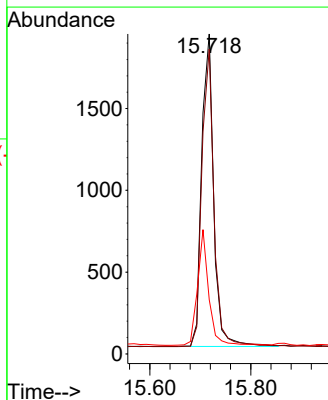
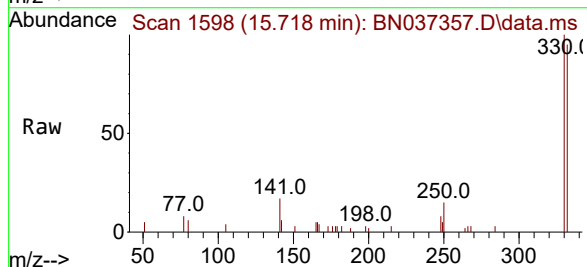
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

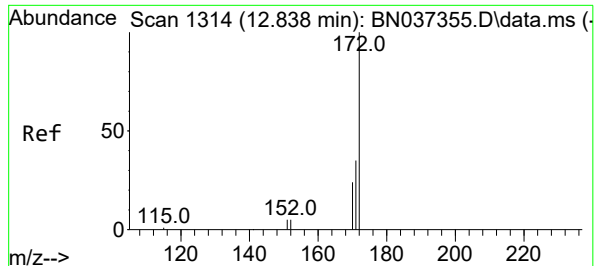
Tgt Ion:164 Resp: 3136
Ion Ratio Lower Upper
164 100
162 105.0 81.5 122.3
160 53.1 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 1.413 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:330 Resp: 3170
Ion Ratio Lower Upper
330 100
332 95.9 78.4 117.6
141 34.3 24.4 36.6

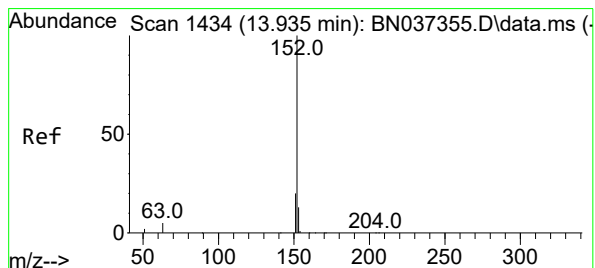
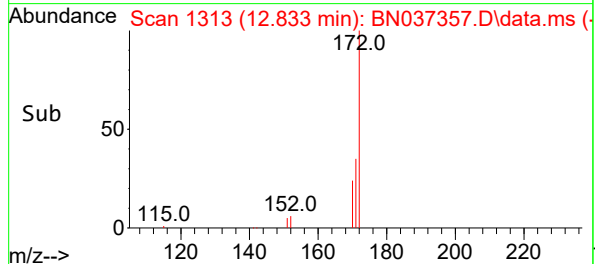
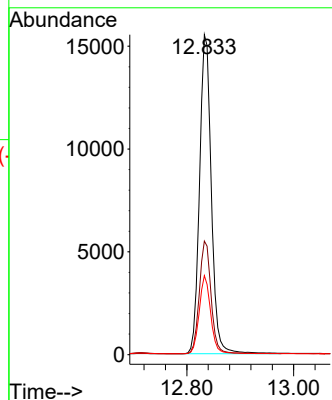
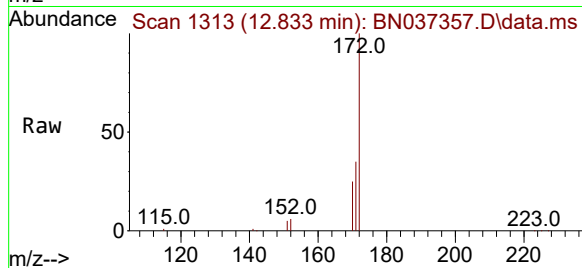




#15
2-Fluorobiphenyl
Concen: 1.730 ng
RT: 12.833 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

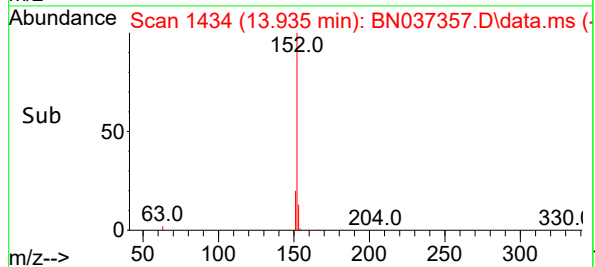
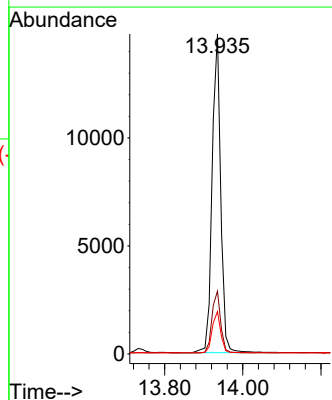
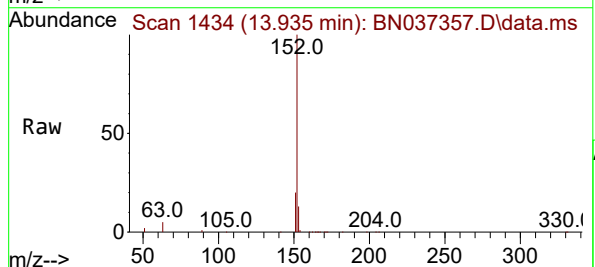
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

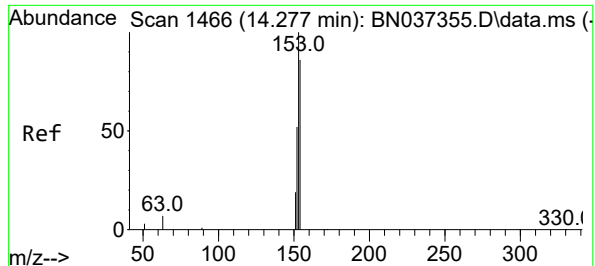
Tgt Ion:172 Resp: 23802
Ion Ratio Lower Upper
172 100
171 35.5 30.8 46.2
170 24.7 21.9 32.9



#16
Acenaphthylene
Concen: 1.713 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:152 Resp: 22546
Ion Ratio Lower Upper
152 100
151 19.6 16.6 24.8
153 13.0 10.2 15.2

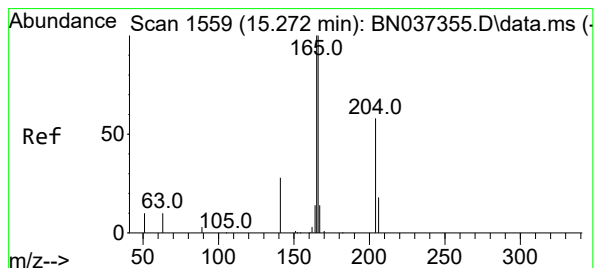
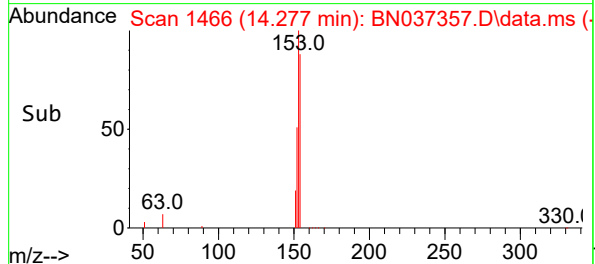
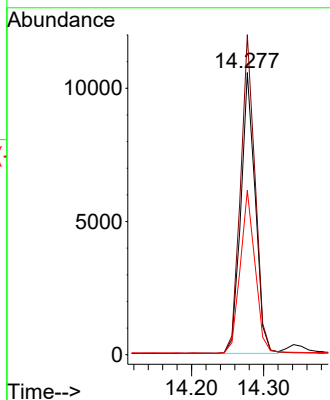
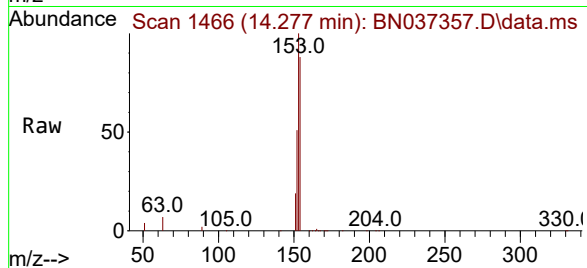




#17
Acenaphthene
Concen: 1.688 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

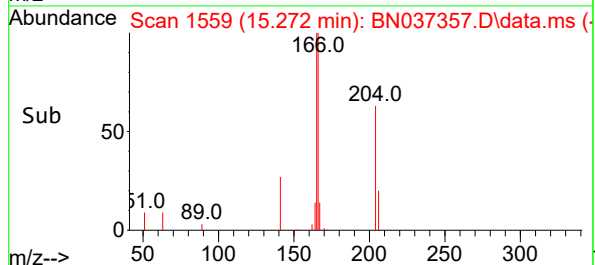
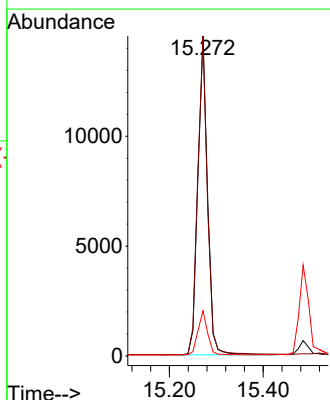
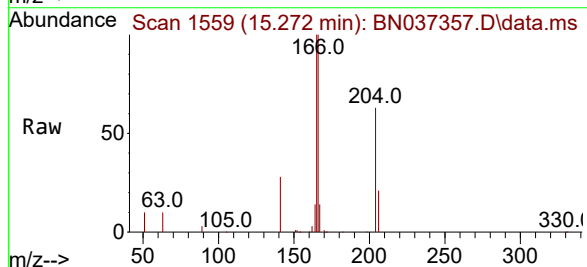
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

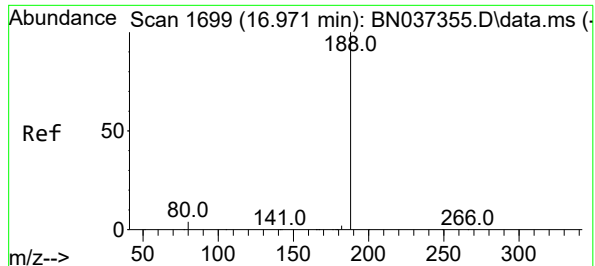
Tgt Ion:154 Resp: 14727
Ion Ratio Lower Upper
154 100
153 115.0 93.1 139.7
152 60.4 48.6 73.0



#18
Fluorene
Concen: 1.684 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:166 Resp: 20827
Ion Ratio Lower Upper
166 100
165 99.5 79.5 119.3
167 13.8 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

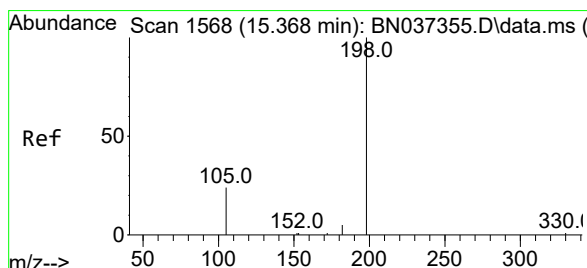
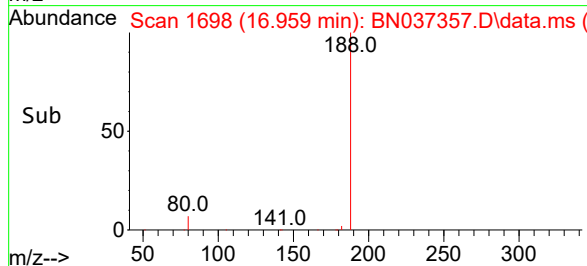
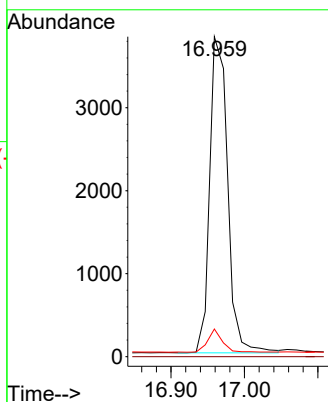
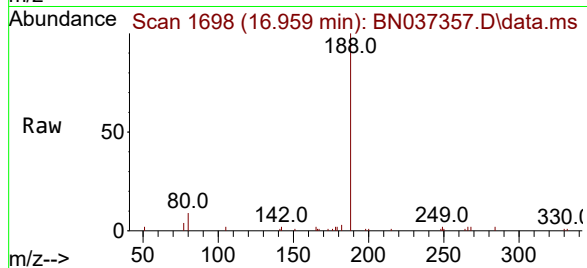
Tgt Ion:188 Resp: 6455

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 1.453 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

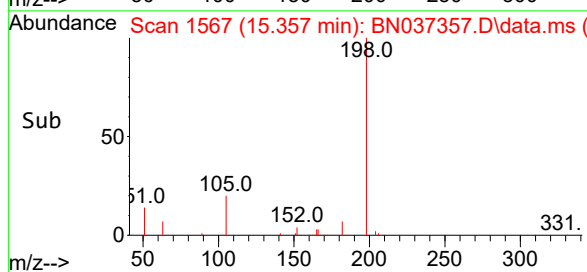
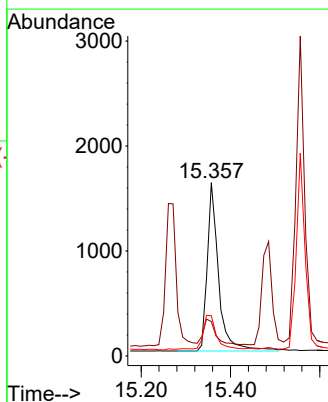
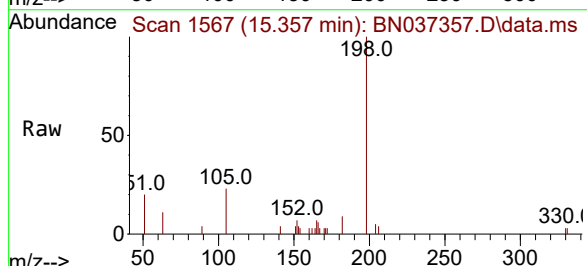
Tgt Ion:198 Resp: 2836

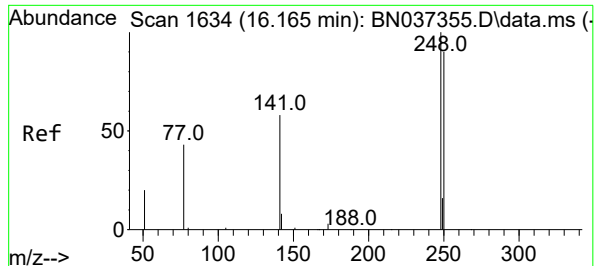
Ion Ratio Lower Upper

198 100

51 19.9 51.4 77.0#

105 23.3 45.5 68.3#

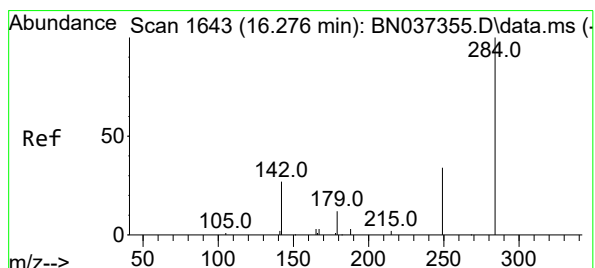
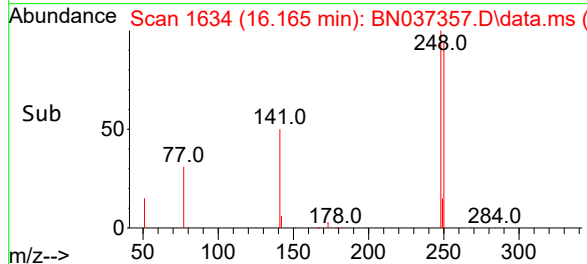
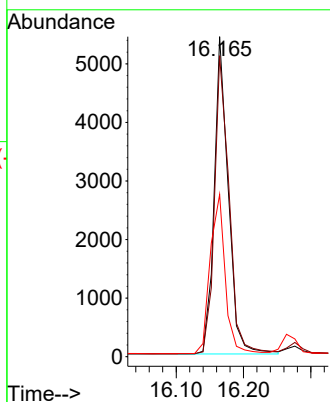
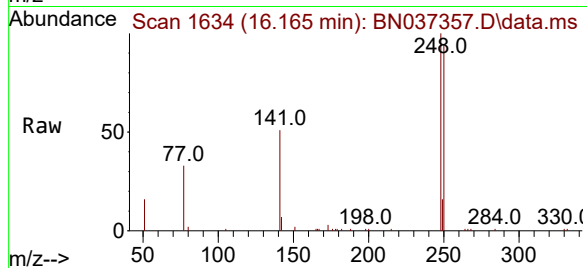




#21
4-Bromophenyl-phenylether
Concen: 1.493 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

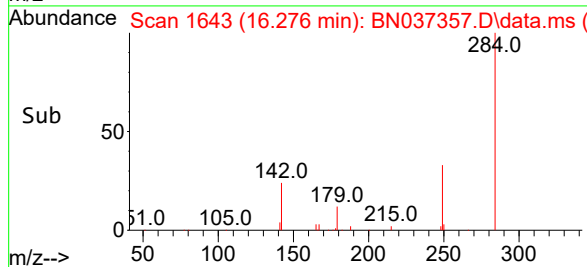
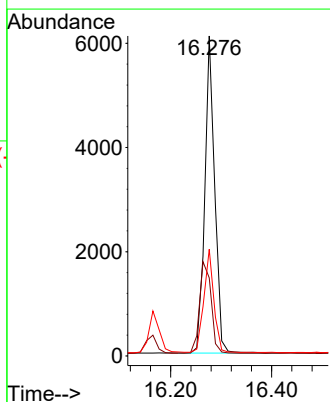
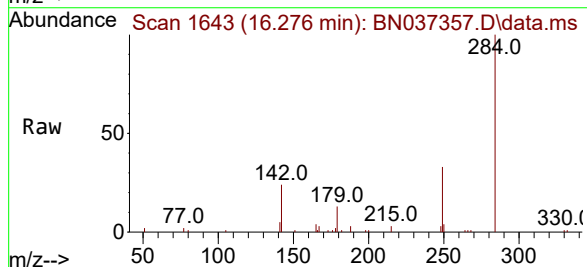
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

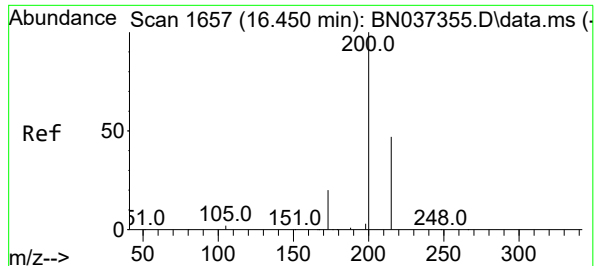
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	80.4	120.6
141	50.7	33.3	49.9



#22
Hexachlorobenzene
Concen: 1.519 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.8	27.0	40.6
249	32.9	28.8	43.2

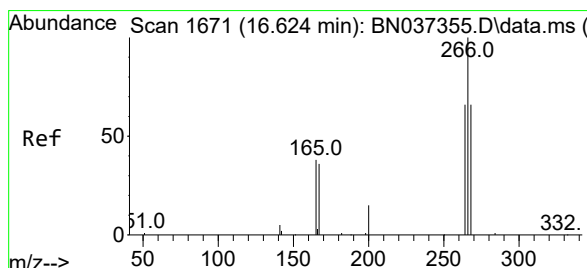
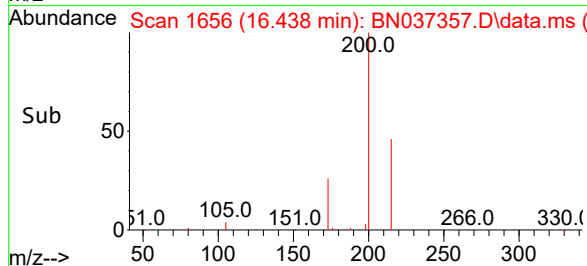
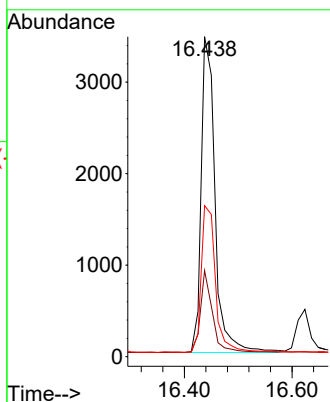
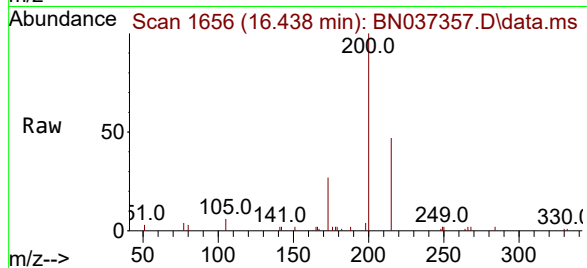




#23
Atrazine
Concen: 1.495 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

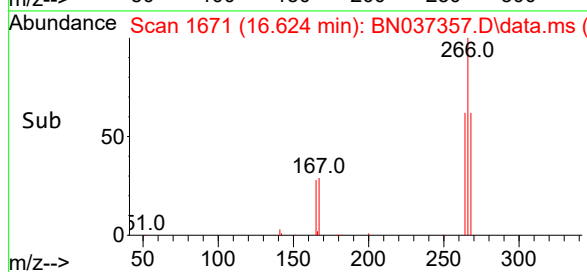
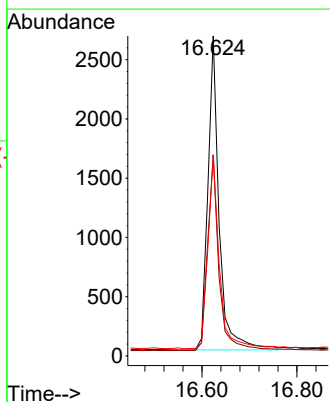
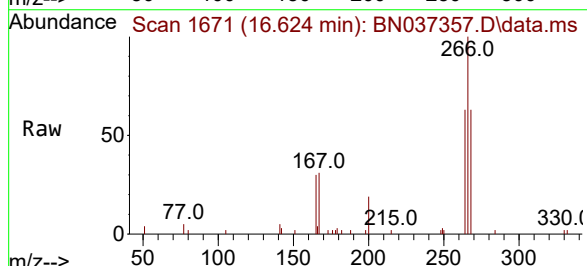
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

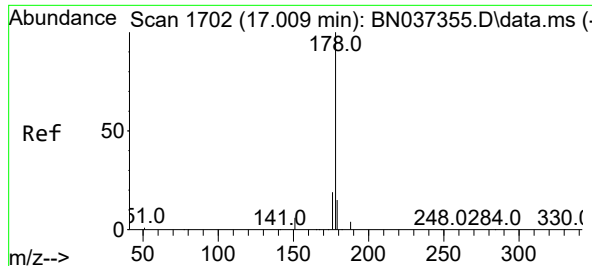
Tgt Ion:200 Resp: 6166
Ion Ratio Lower Upper
200 100
173 26.9 29.2 43.8#
215 47.2 48.8 73.2#



#24
Pentachlorophenol
Concen: 1.445 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:266 Resp: 4361
Ion Ratio Lower Upper
266 100
264 62.9 50.3 75.5
268 63.6 55.3 82.9

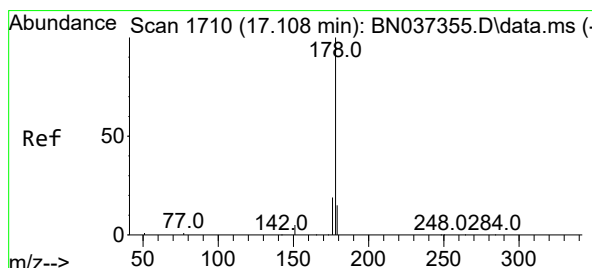
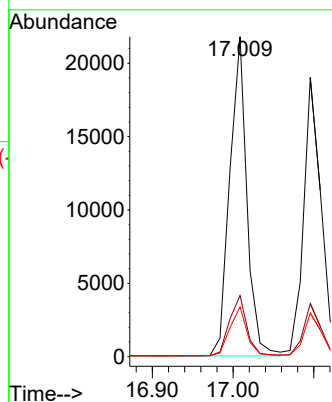
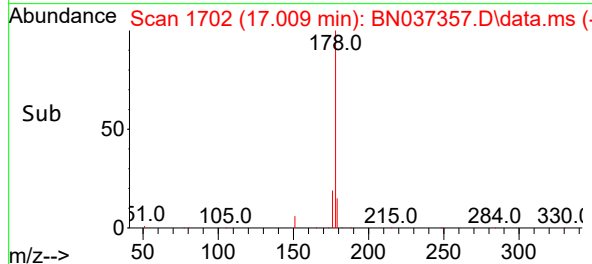
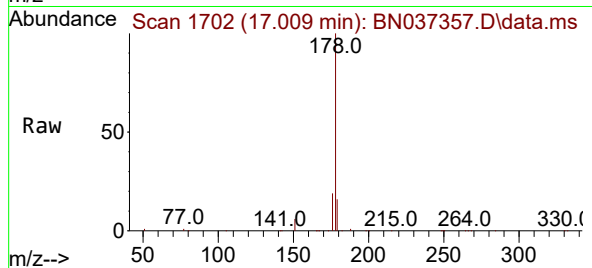




#25
Phenanthrene
Concen: 1.758 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

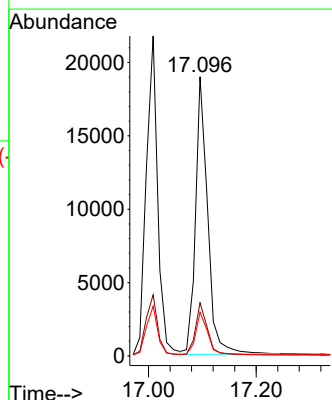
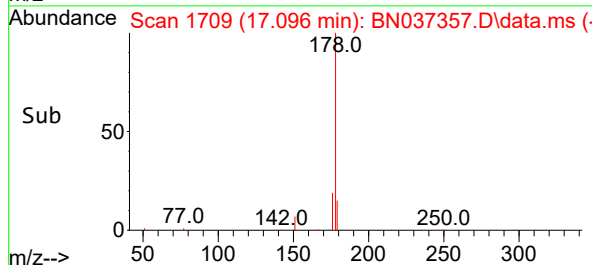
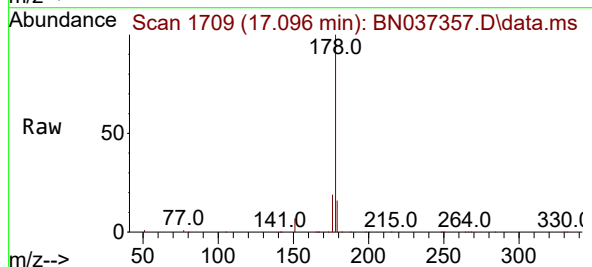
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

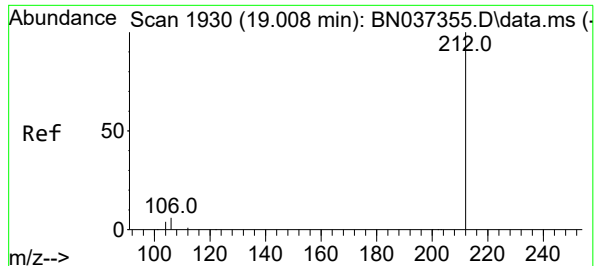
Tgt Ion:178 Resp: 32059
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.4 12.9 19.3



#26
Anthracene
Concen: 1.743 ng
RT: 17.096 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:178 Resp: 29693
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.5 13.0 19.6





#27

Fluoranthene-d10

Concen: 1.586 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

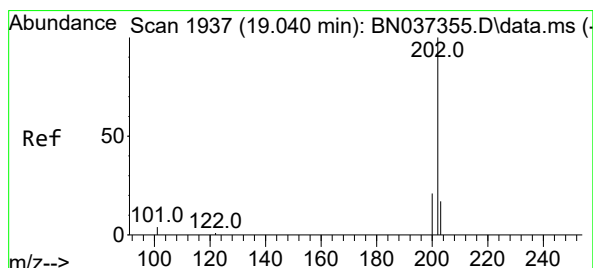
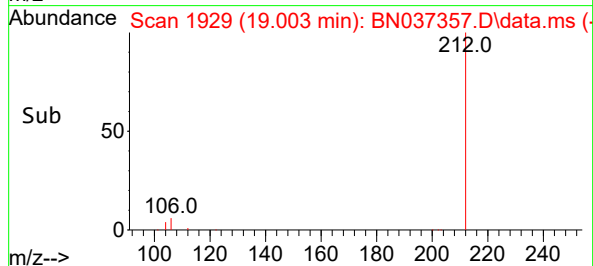
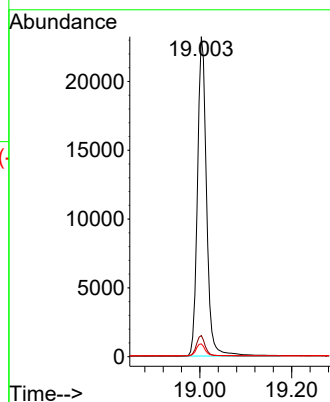
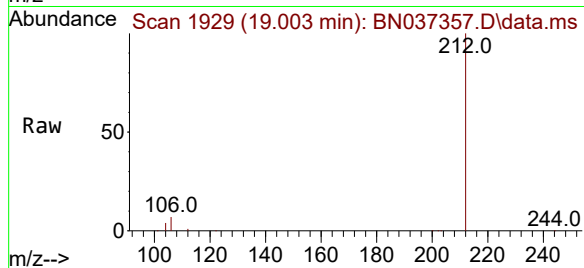
Tgt Ion:212 Resp: 31876

Ion Ratio Lower Upper

212 100

106 6.3 3.0 4.4#

104 3.8 2.0 3.0#



#28

Fluoranthene

Concen: 1.660 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

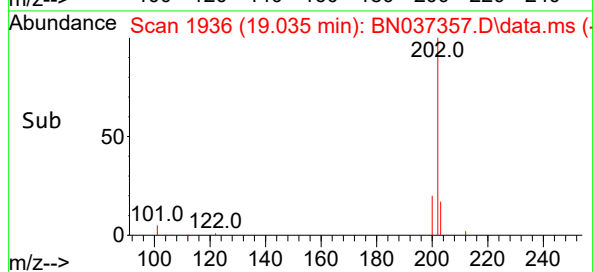
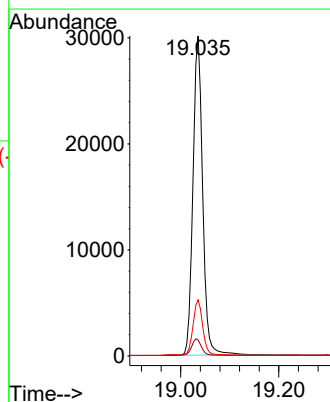
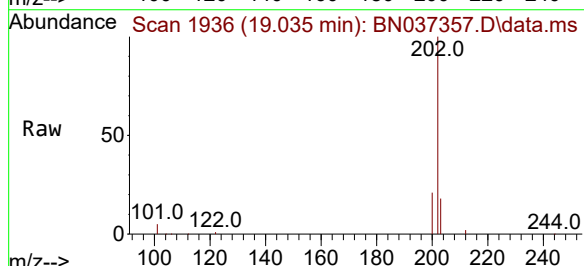
Tgt Ion:202 Resp: 41430

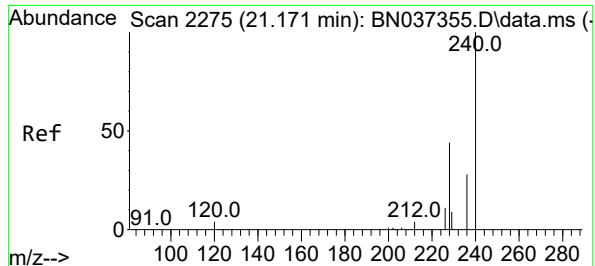
Ion Ratio Lower Upper

202 100

101 5.4 3.0 4.6#

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

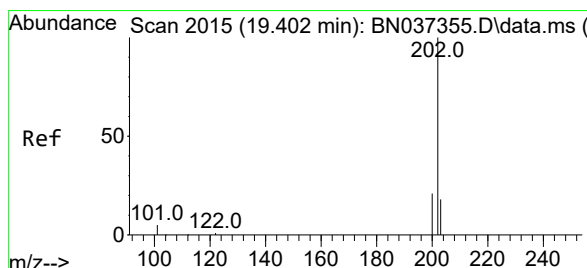
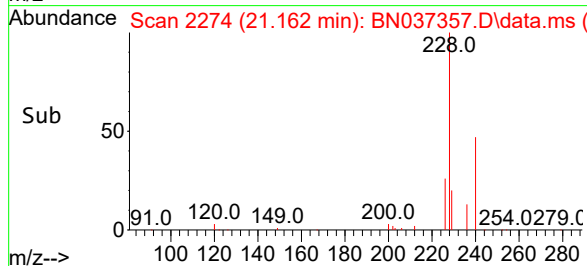
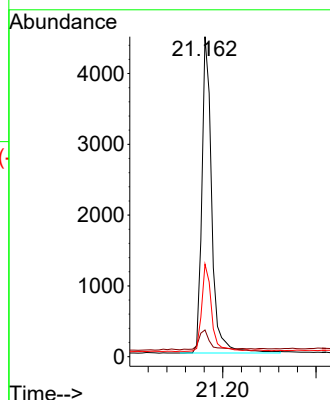
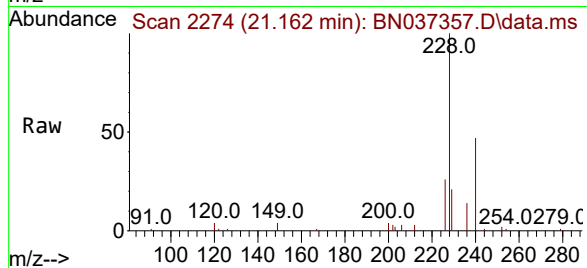
Tgt Ion:240 Resp: 6604

Ion Ratio Lower Upper

240 100

120 8.3 7.5 11.3

236 28.9 24.9 37.3



#30

Pyrene

Concen: 1.642 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

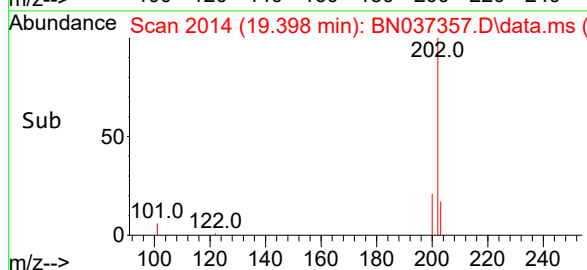
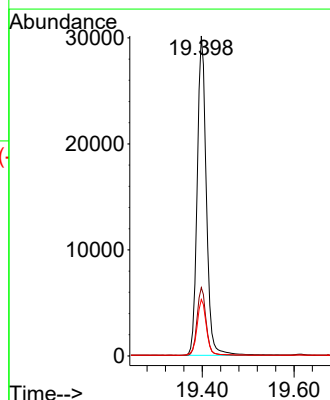
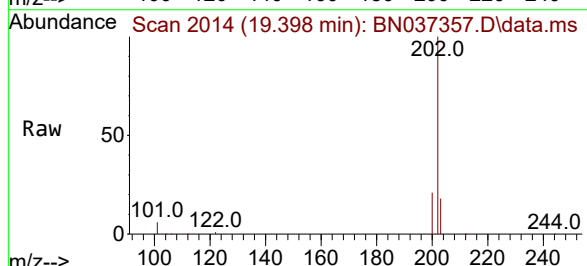
Tgt Ion:202 Resp: 41513

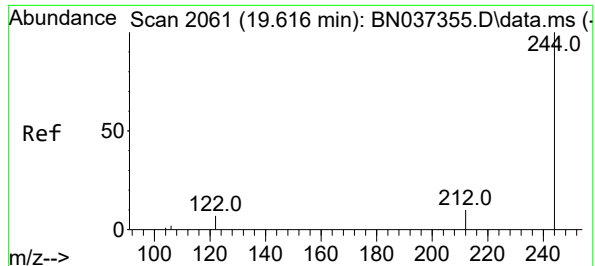
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.9 14.5 21.7

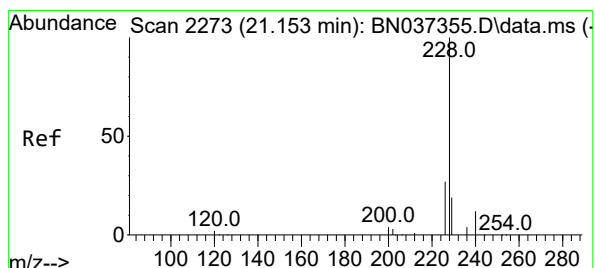
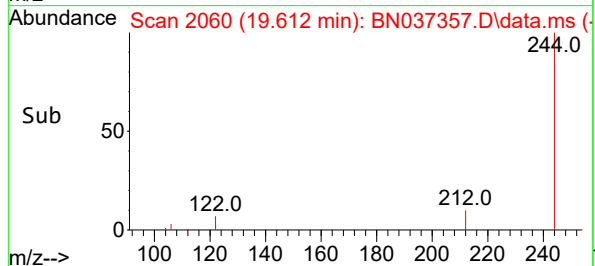
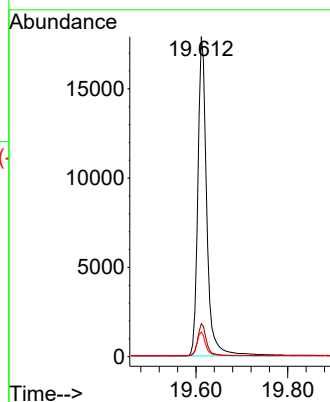
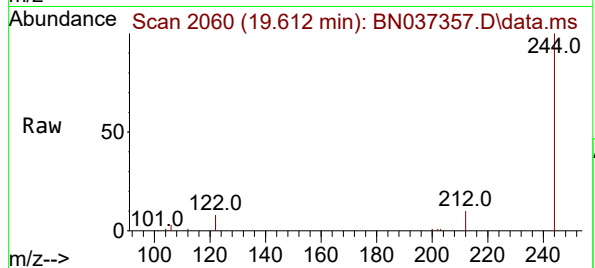




#31
Terphenyl-d14
Concen: 1.593 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

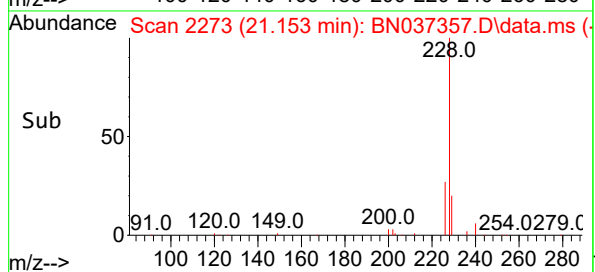
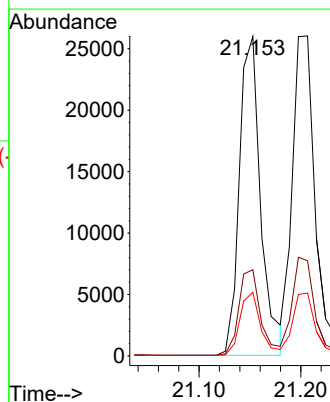
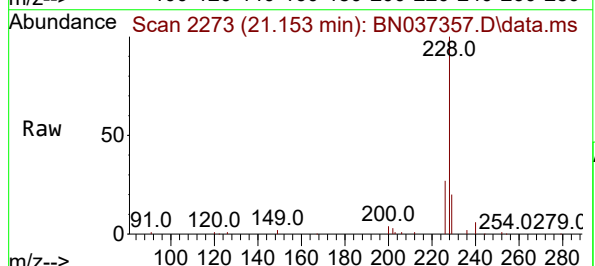
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

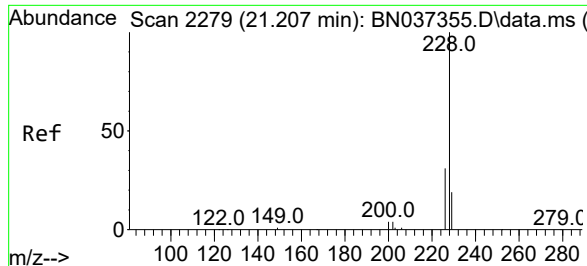
Tgt Ion:244 Resp: 24025
Ion Ratio Lower Upper
244 100
212 10.3 11.1 16.7#
122 7.7 7.2 10.8



#32
Benzo(a)anthracene
Concen: 1.773 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:228 Resp: 37793
Ion Ratio Lower Upper
228 100
226 27.0 23.0 34.4
229 19.9 17.4 26.0





#33

Chrysene

Concen: 1.550 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

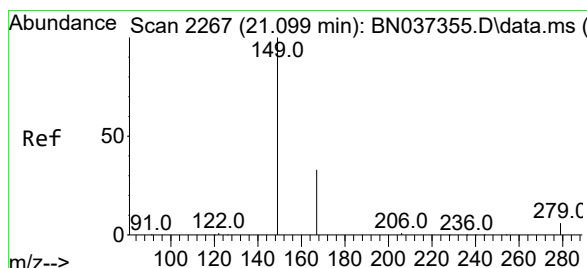
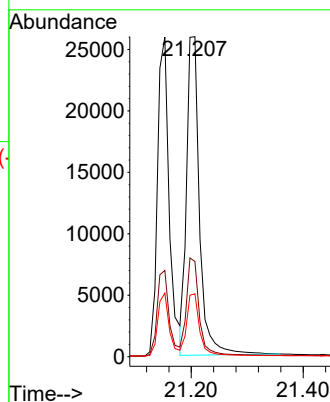
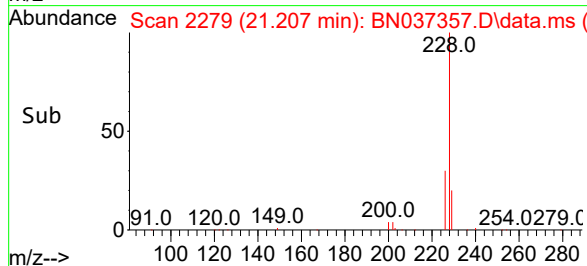
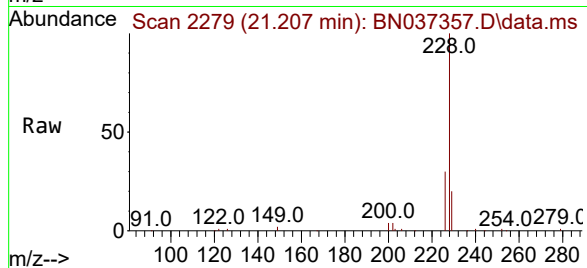
Tgt Ion:228 Resp: 41889

Ion Ratio Lower Upper

228 100

226 29.8 25.4 38.2

229 19.7 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.573 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

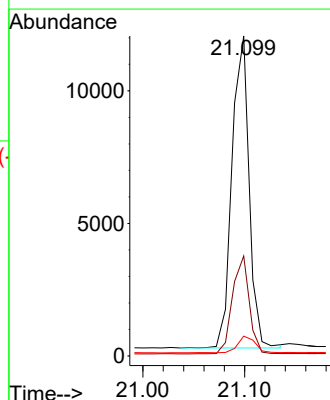
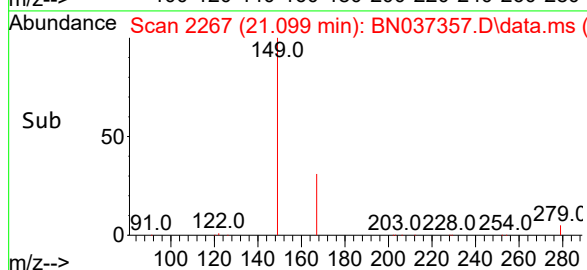
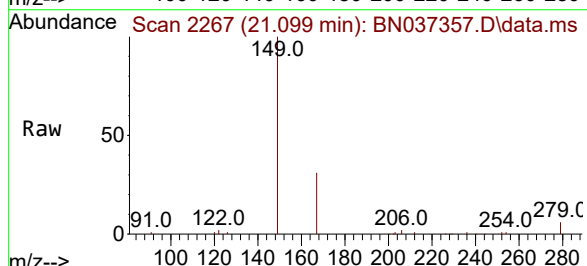
Tgt Ion:149 Resp: 13738

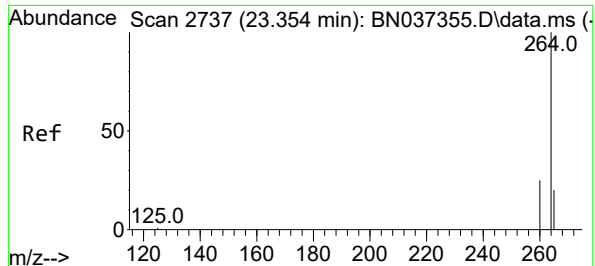
Ion Ratio Lower Upper

149 100

167 30.9 24.6 37.0

279 5.5 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

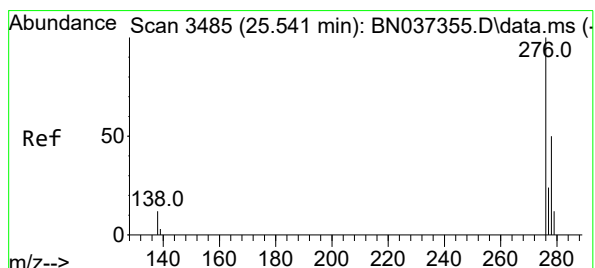
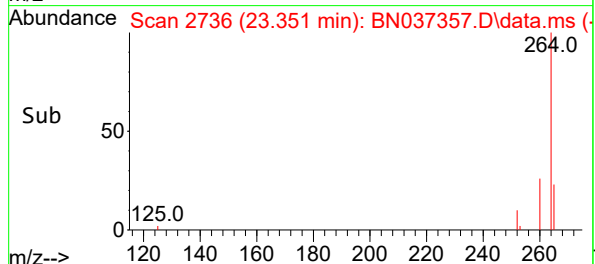
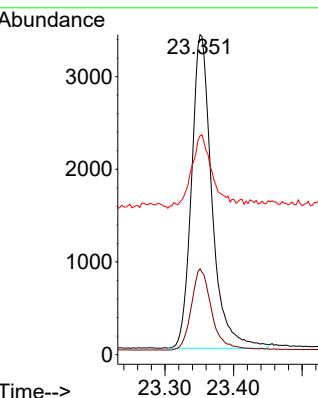
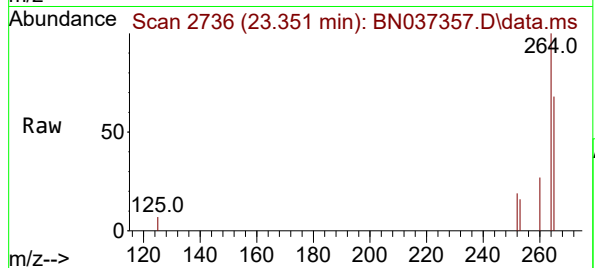
Tgt Ion:264 Resp: 7013

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.2

265 68.4 71.4 107.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.863 ng

RT: 25.535 min Scan# 3483

Delta R.T. -0.006 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

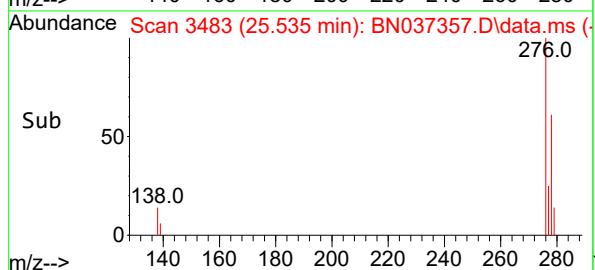
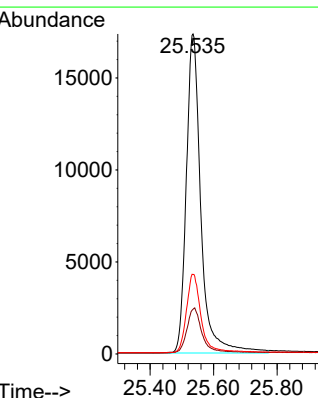
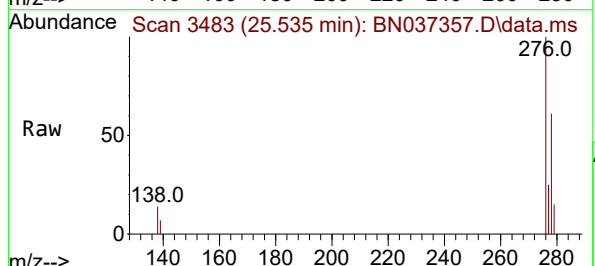
Tgt Ion:276 Resp: 55371

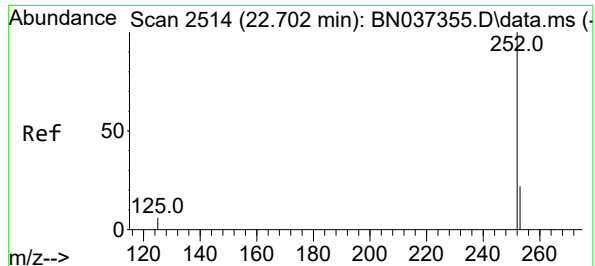
Ion Ratio Lower Upper

276 100

138 14.3 2.2 3.2#

277 24.2 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 1.738 ng

RT: 22.699 min Scan# 2513

Delta R.T. -0.003 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

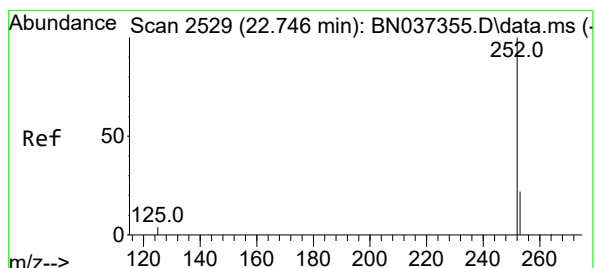
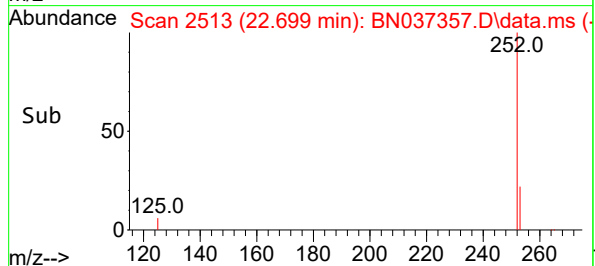
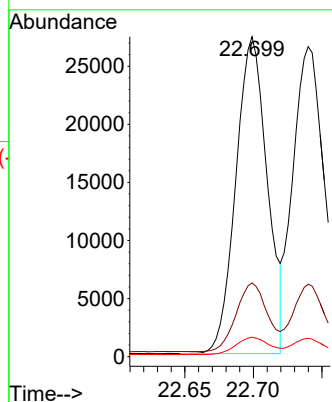
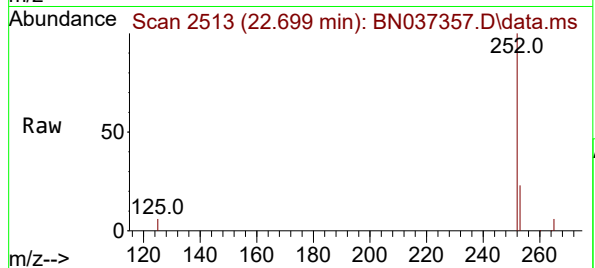
Tgt Ion:252 Resp: 43215

Ion Ratio Lower Upper

252 100

253 23.1 26.6 40.0#

125 6.1 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 1.736 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

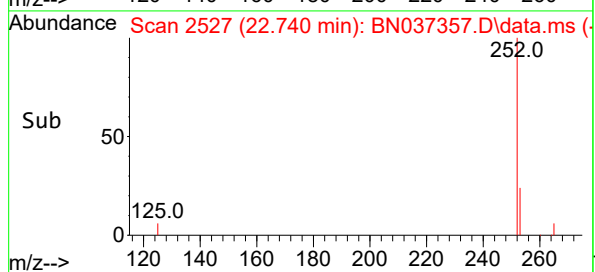
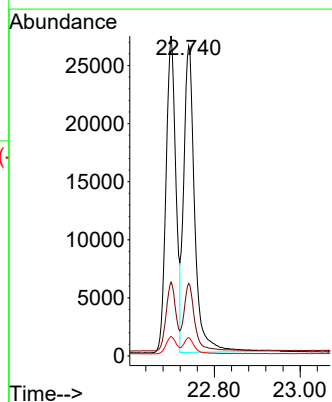
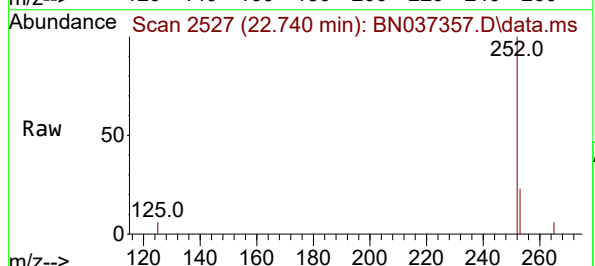
Tgt Ion:252 Resp: 46879

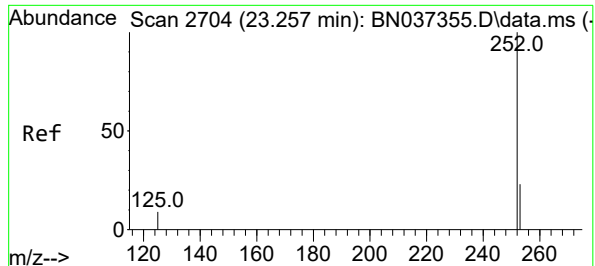
Ion Ratio Lower Upper

252 100

253 23.4 26.7 40.1#

125 6.0 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 1.724 ng

RT: 23.255 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

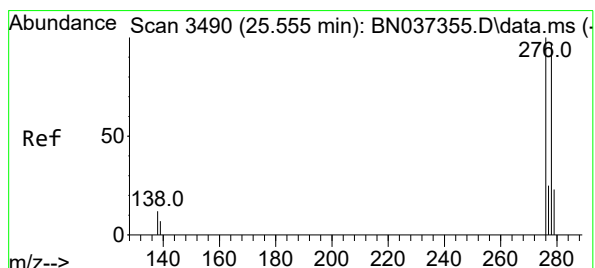
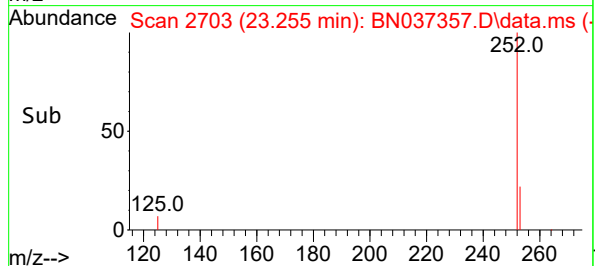
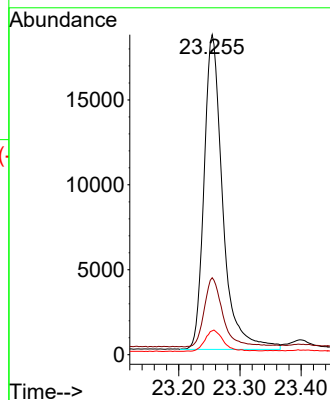
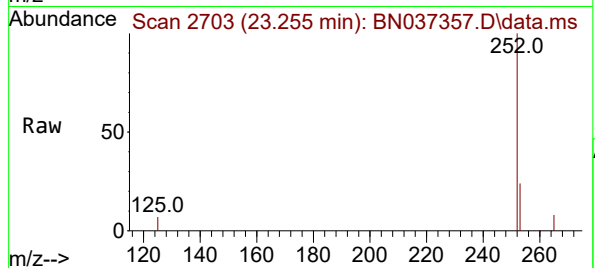
Tgt Ion:252 Resp: 39242

Ion Ratio Lower Upper

252 100

253 24.1 31.6 47.4#

125 7.5 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.849 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.009 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

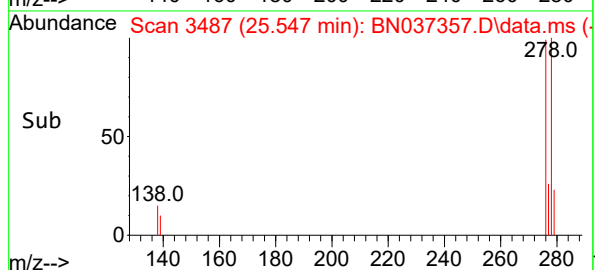
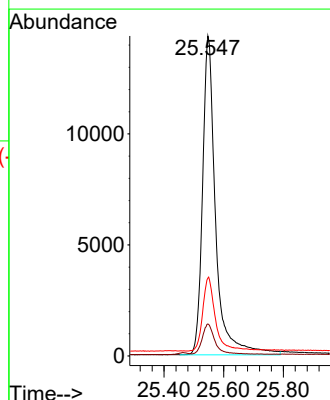
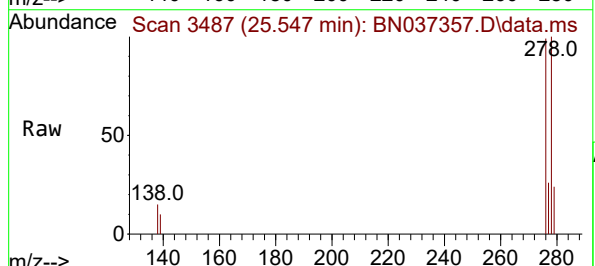
Tgt Ion:278 Resp: 43786

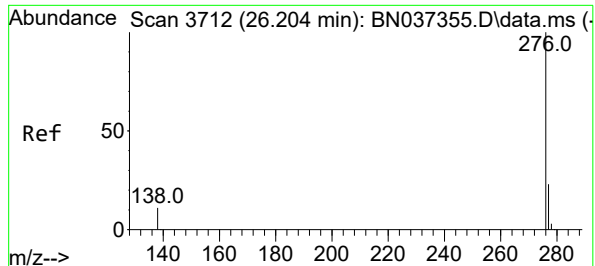
Ion Ratio Lower Upper

278 100

139 10.0 10.2 15.4#

279 24.3 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 1.767 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037357.D

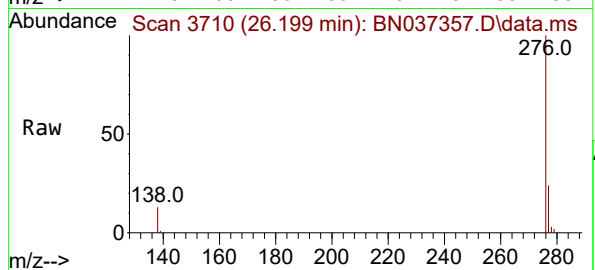
Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



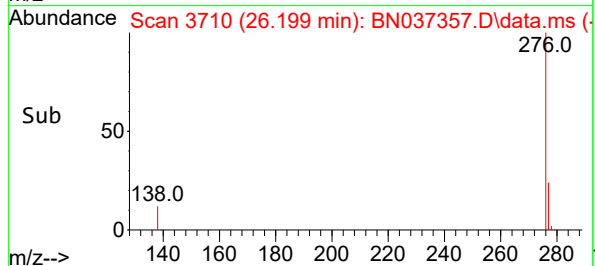
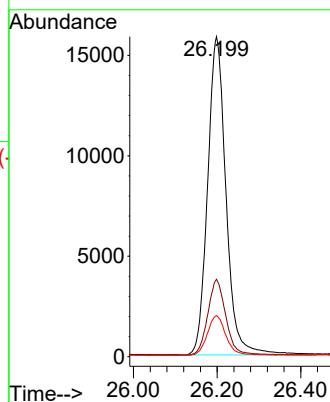
Tgt Ion:276 Resp: 48259

Ion Ratio Lower Upper

276 100

277 24.2 22.7 34.1

138 12.9 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037358.D
 Acq On : 20 Jun 2025 19:51
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 20 23:28:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

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

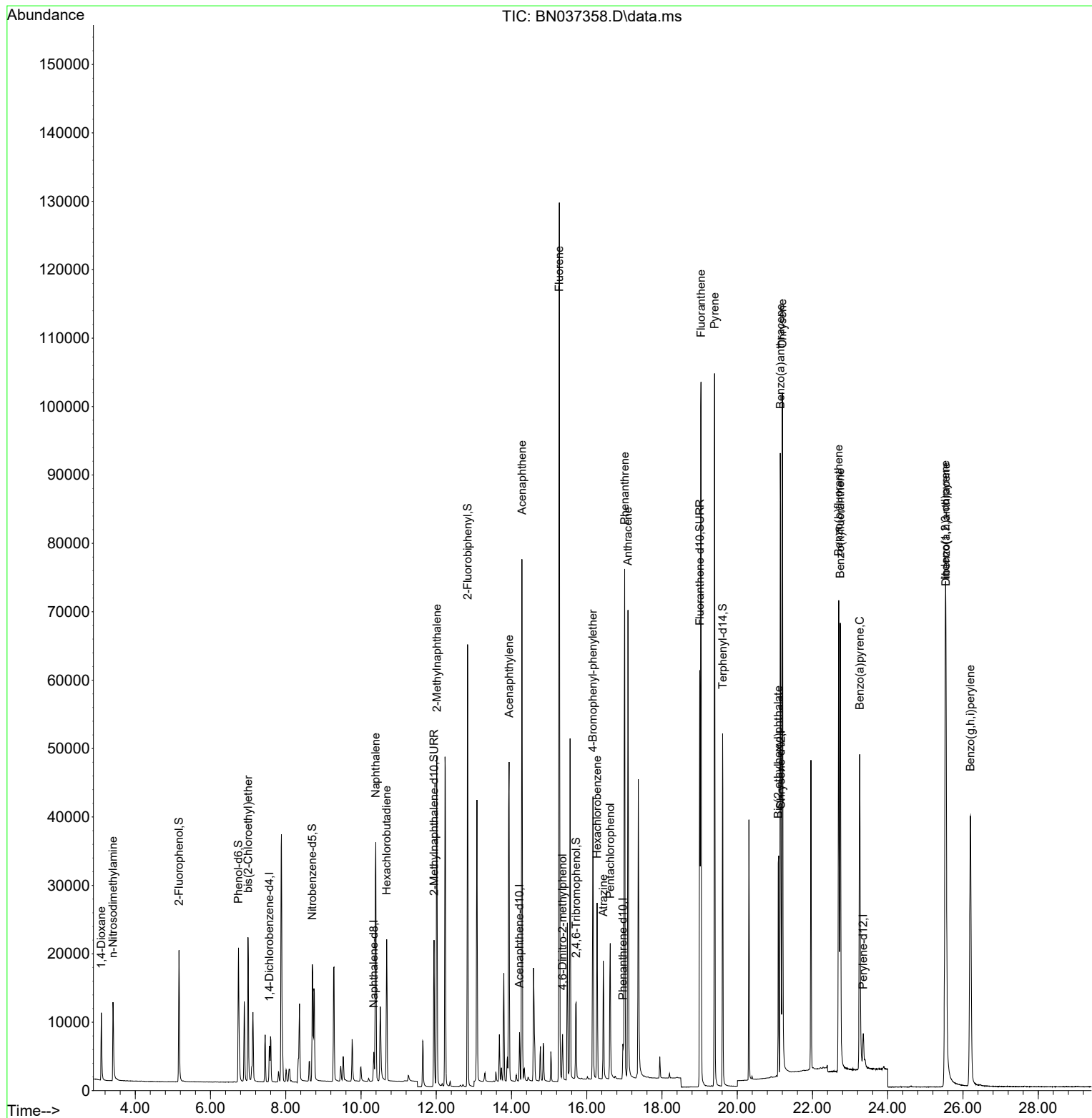
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2553	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	5431	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	3830	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	7833	0.400	ng	#-0.01
29) Chrysene-d12	21.162	240	7155	0.400	ng	0.00
35) Perylene-d12	23.348	264	6736	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	16051	3.439	ng	0.00
5) Phenol-d6	6.744	99	17930	3.882	ng	0.00
8) Nitrobenzene-d5	8.707	82	15387	3.413	ng	-0.01
11) 2-Methylnaphthalene-d10	11.940	152	28839	3.282	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	7296	2.664	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	53666	3.194	ng	0.00
27) Fluoranthene-d10	19.003	212	72122	2.957	ng	0.00
31) Terphenyl-d14	19.611	244	53536	3.277	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.097	88	7556	3.351	ng	91
3) n-Nitrosodimethylamine	3.408	42	7228	2.753	ng	# 72
6) bis(2-Chloroethyl)ether	6.997	93	16052	3.972	ng	97
9) Naphthalene	10.394	128	45711	3.247	ng	# 86
10) Hexachlorobutadiene	10.682	225	16687	2.426	ng	# 99
12) 2-Methylnaphthalene	12.016	142	33783	3.412	ng	# 92
16) Acenaphthylene	13.935	152	52599	3.272	ng	98
17) Acenaphthene	14.277	154	34413	3.229	ng	98
18) Fluorene	15.271	166	49180	3.256	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	6721	2.838	ng	# 44
21) 4-Bromophenyl-phenylether	16.165	248	18488	2.891	ng	96
22) Hexachlorobenzene	16.276	284	18573	2.784	ng	98
23) Atrazine	16.438	200	14961	2.988	ng	# 81
24) Pentachlorophenol	16.624	266	10110	2.761	ng	97
25) Phenanthrene	17.009	178	76487	3.455	ng	99
26) Anthracene	17.095	178	71218	3.446	ng	98
28) Fluoranthene	19.035	202	94745	3.129	ng	# 99
30) Pyrene	19.398	202	93984	3.430	ng	99
32) Benzo(a)anthracene	21.144	228	78532	3.401	ng	97
33) Chrysene	21.197	228	87474	2.987	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	30412	3.214	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.529	276	98025	3.433	ng	# 90
37) Benzo(b)fluoranthene	22.696	252	82568	3.456	ng	# 84
38) Benzo(k)fluoranthene	22.737	252	87144	3.359	ng	# 83
39) Benzo(a)pyrene	23.254	252	72643	3.323	ng	# 76
40) Dibenzo(a,h)anthracene	25.547	278	77899	3.426	ng	# 74
41) Benzo(g,h,i)perylene	26.199	276	84957	3.239	ng	93

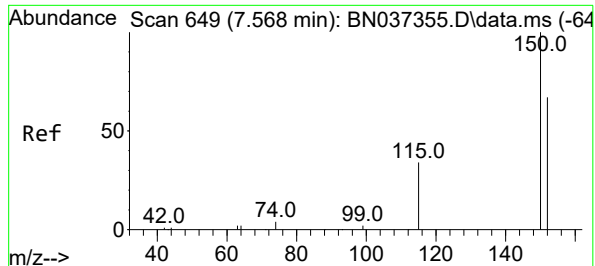
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037358.D
Acq On : 20 Jun 2025 19:51
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

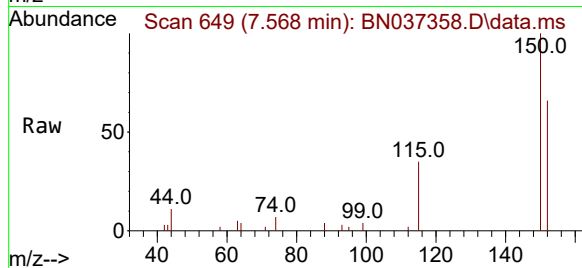
Quant Time: Jun 20 23:28:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



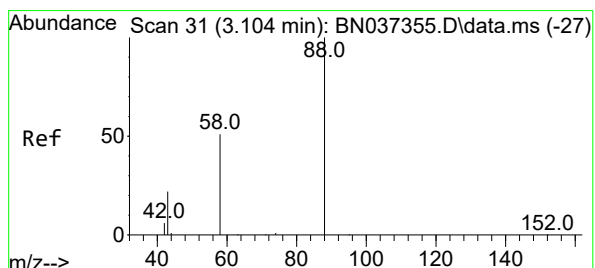
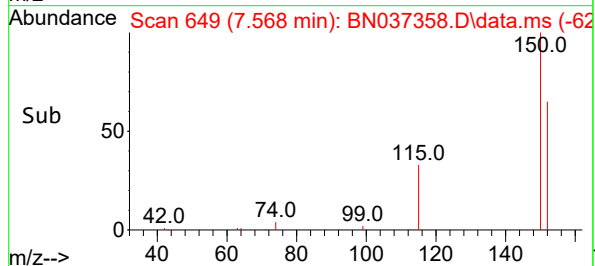
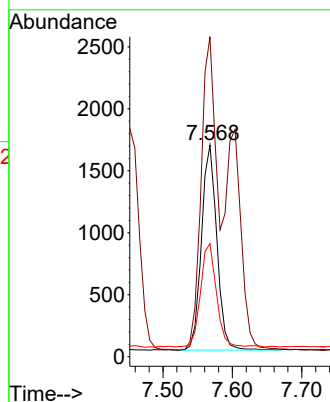


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

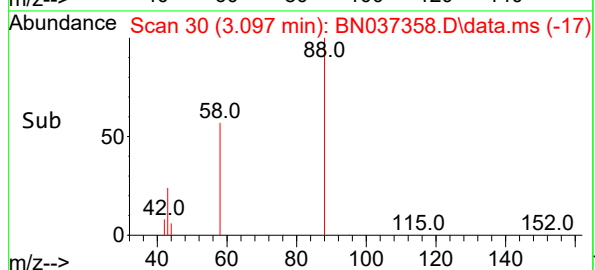
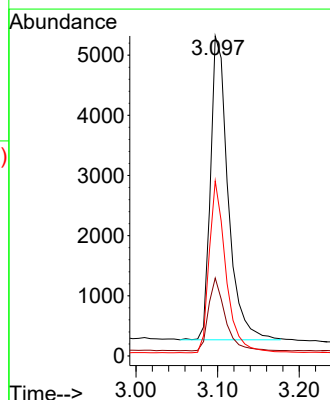
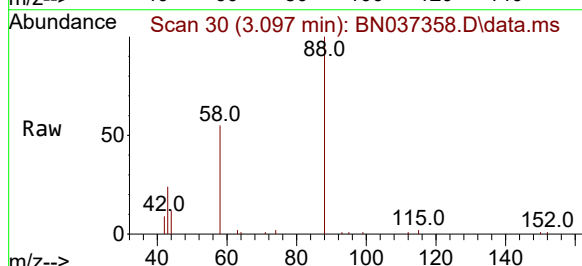


Tgt Ion:152 Resp: 2553
Ion Ratio Lower Upper
152 100
150 151.3 112.7 169.1
115 53.5 45.9 68.9

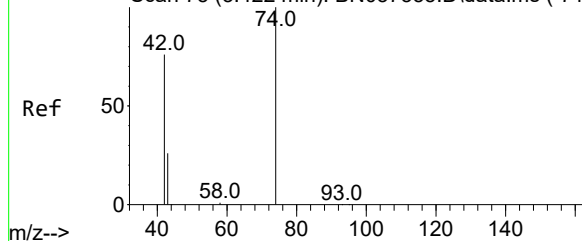


#2
1,4-Dioxane
Concen: 3.351 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion: 88 Resp: 7556
Ion Ratio Lower Upper
88 100
43 22.5 21.0 31.6
58 54.2 38.0 57.0



Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



#3

n-Nitrosodimethylamine

Concen: 2.753 ng

RT: 3.408 min Scan# 71

Delta R.T. -0.015 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

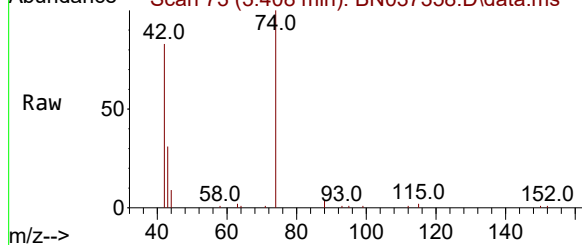
Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

Abundance Scan 73 (3.408 min): BN037358.D\data.ms



Tgt Ion: 42 Resp: 7228

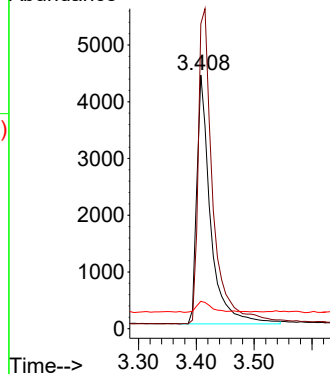
Ion Ratio Lower Upper

42 100

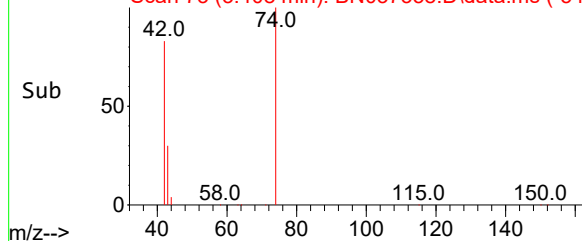
74 135.8 84.3 126.5#

44 5.2 5.0 7.4

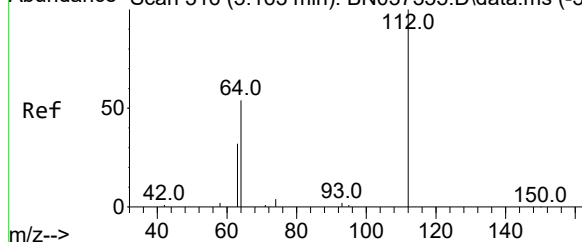
Abundance



Abundance Scan 73 (3.408 min): BN037358.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 3.439 ng

RT: 5.163 min Scan# 316

Delta R.T. -0.000 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Tgt Ion: 112 Resp: 16051

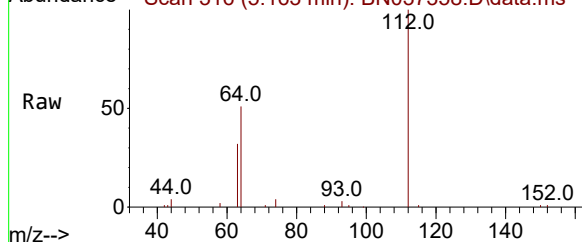
Ion Ratio Lower Upper

112 100

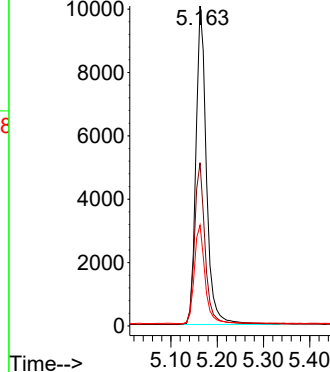
64 50.8 38.7 58.1

63 31.2 26.4 39.6

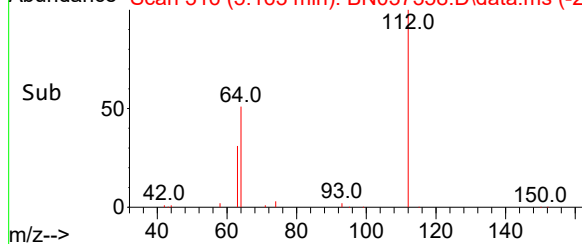
Abundance Scan 316 (5.163 min): BN037358.D\data.ms

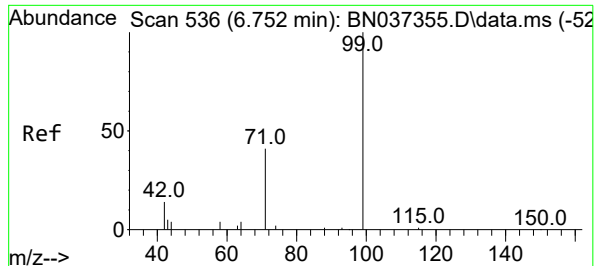


Abundance



Abundance Scan 316 (5.163 min): BN037358.D\data.ms (-28)

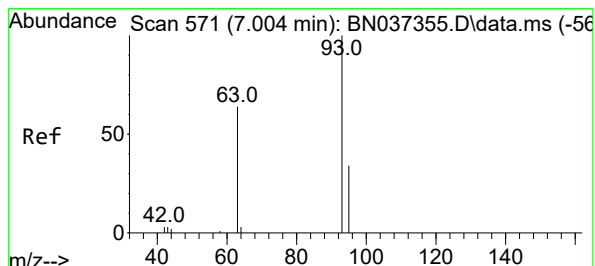
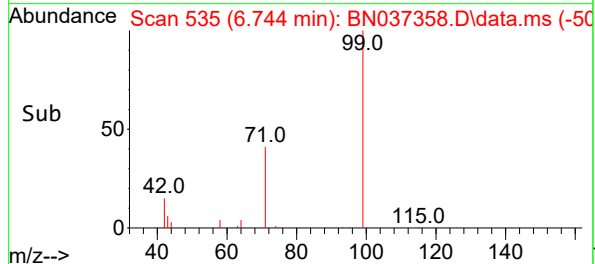
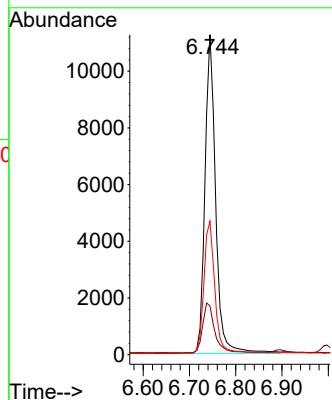
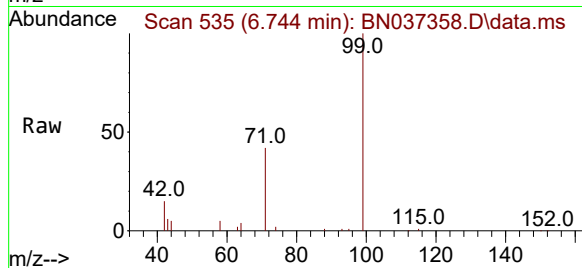




#5
Phenol-d6
Concen: 3.882 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

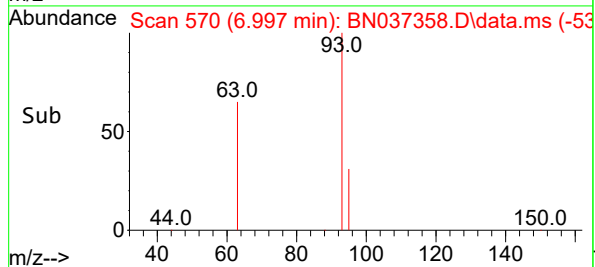
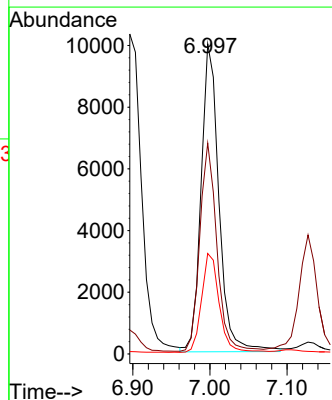
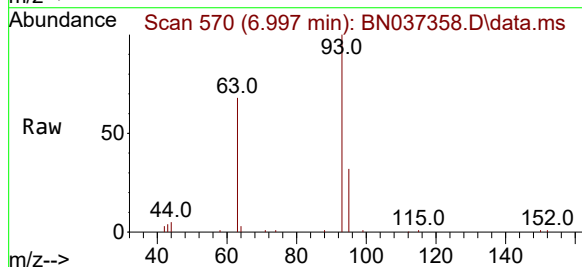
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

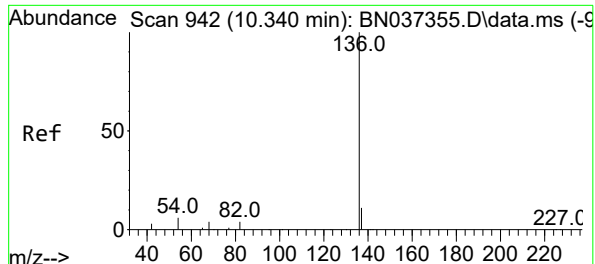
Tgt Ion: 99 Resp: 17930
Ion Ratio Lower Upper
99 100
42 17.7 19.8 29.8#
71 42.9 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 3.972 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion: 93 Resp: 16052
Ion Ratio Lower Upper
93 100
63 64.4 53.2 79.8
95 31.6 27.3 40.9

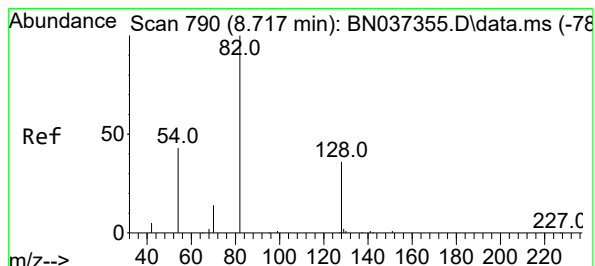
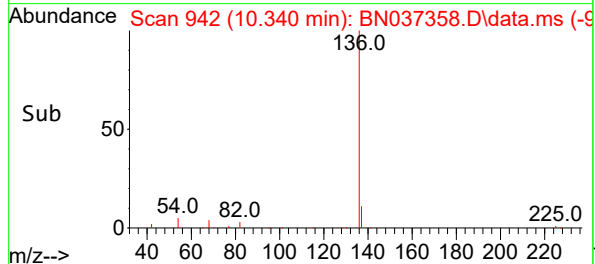
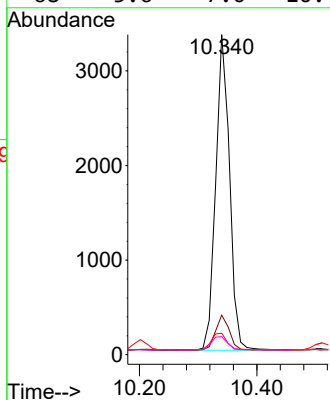
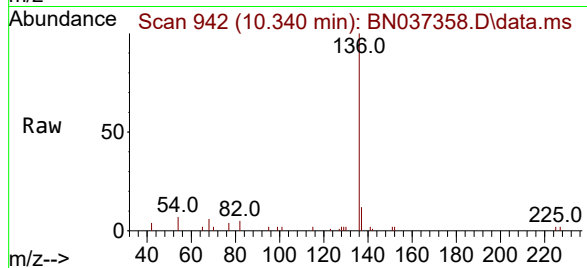




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

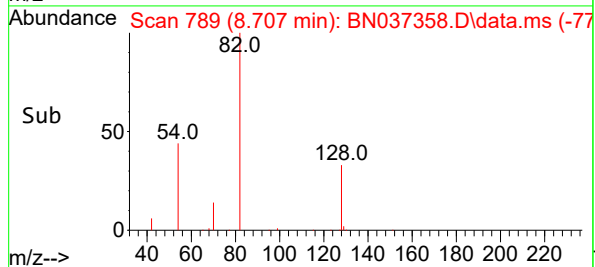
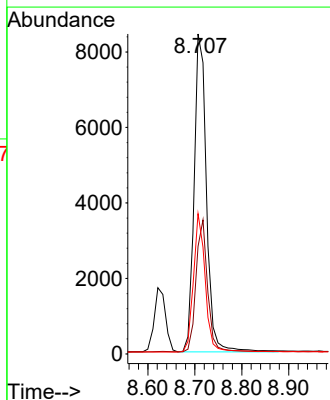
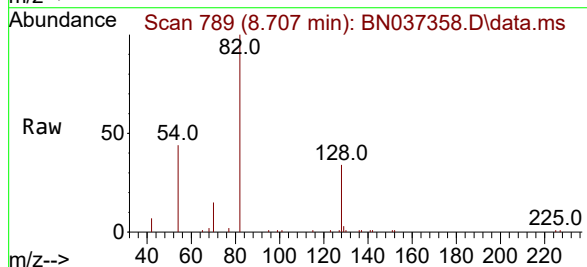
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

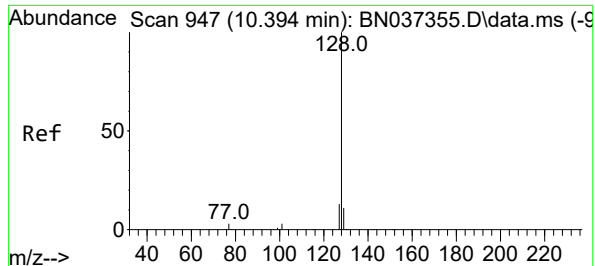
Tgt Ion	136	Resp	5431
Ion Ratio	Lower	Upper	
136	100		
137	12.4	12.2	18.2
54	6.7	8.8	13.2#
68	5.6	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 3.413 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion	82	Resp	15387
Ion Ratio	Lower	Upper	
82	100		
128	33.6	42.5	63.7#
54	43.9	43.2	64.8

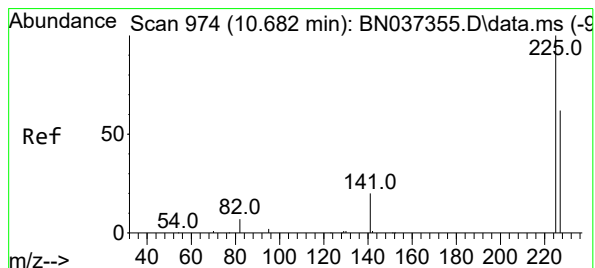
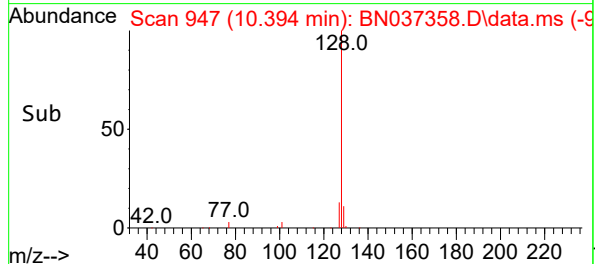
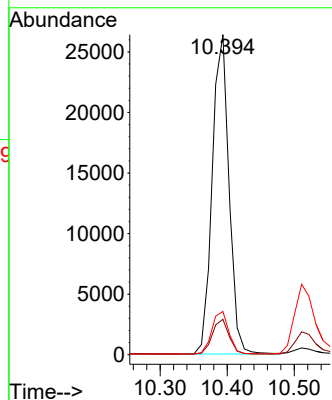
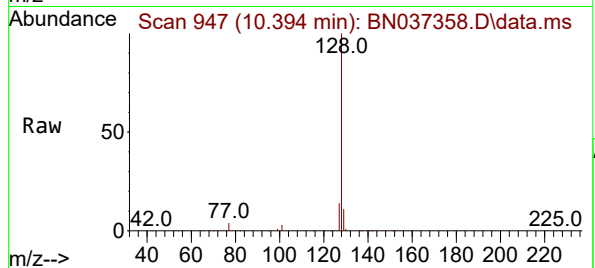




#9
Naphthalene
Concen: 3.247 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

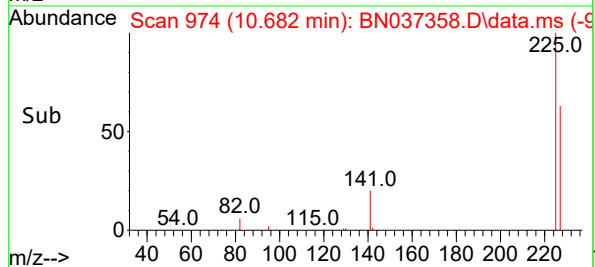
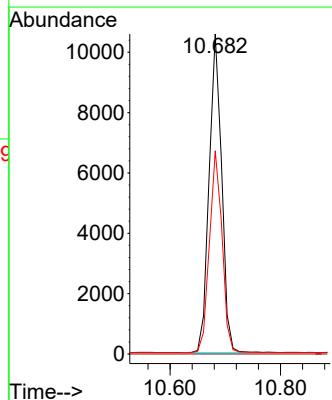
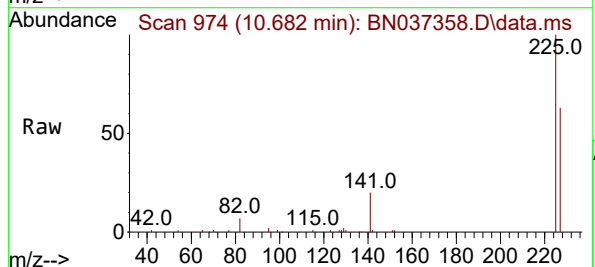
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

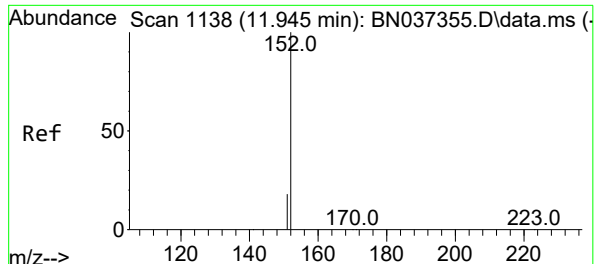
Tgt Ion:128 Resp: 45711
Ion Ratio Lower Upper
128 100
129 11.1 14.0 21.0#
127 13.5 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 2.426 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:225 Resp: 16687
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.3 75.5

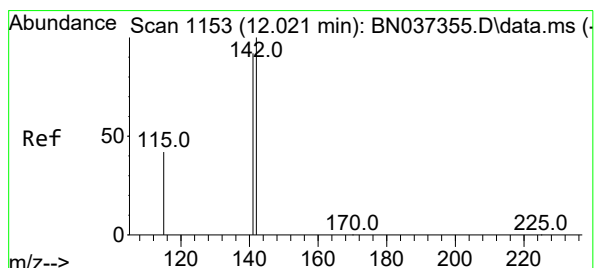
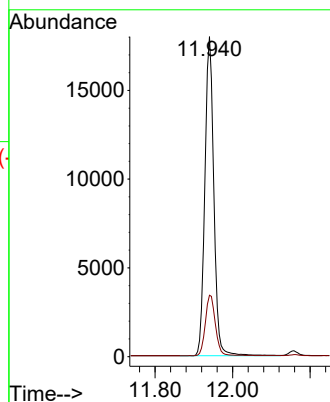
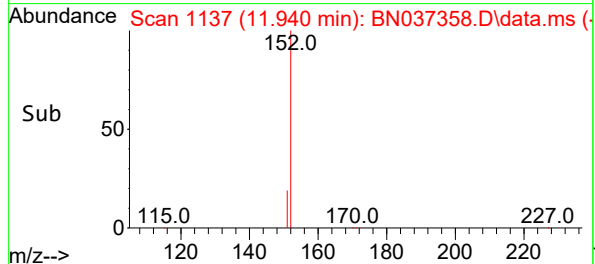
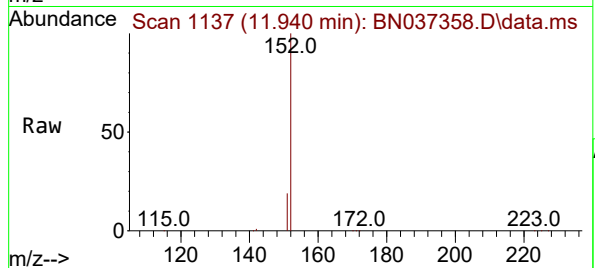




#11
2-Methylnaphthalene-d10
Concen: 3.282 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

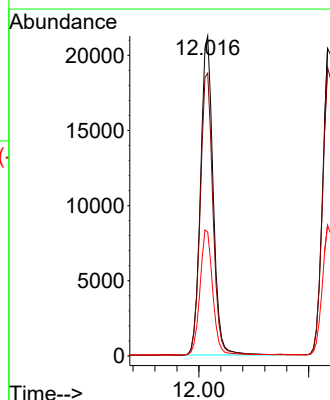
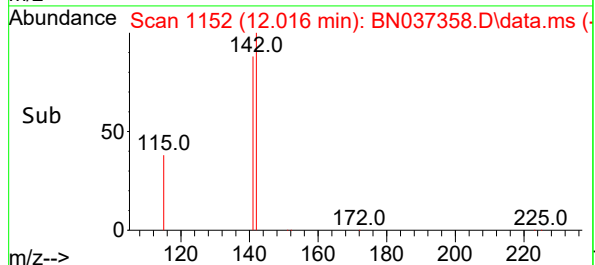
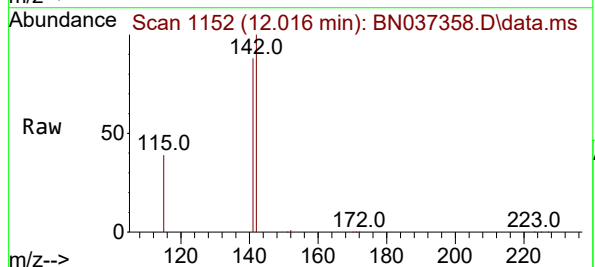
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

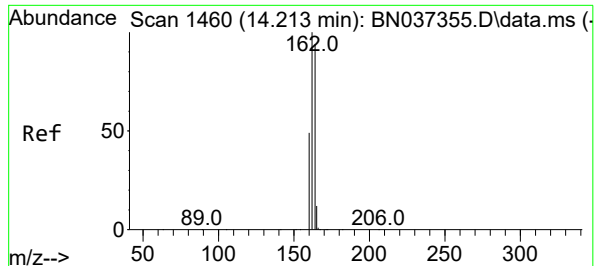
Tgt Ion:152 Resp: 28839
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.0



#12
2-Methylnaphthalene
Concen: 3.412 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:142 Resp: 33783
Ion Ratio Lower Upper
142 100
141 88.4 70.2 105.2
115 38.7 43.0 64.4#

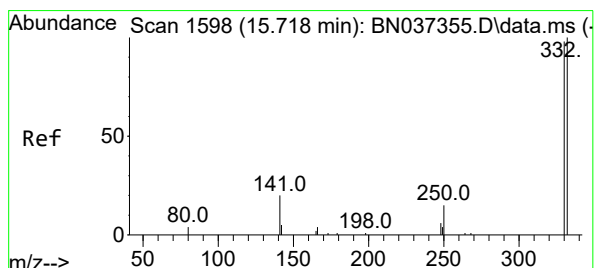
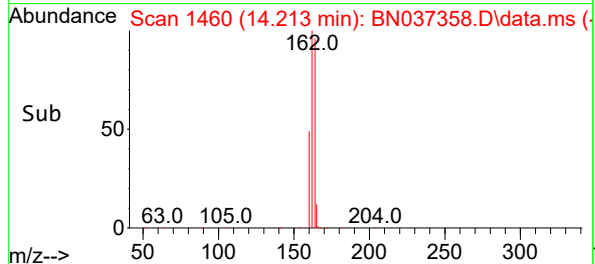
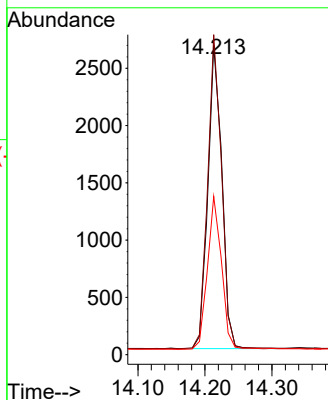
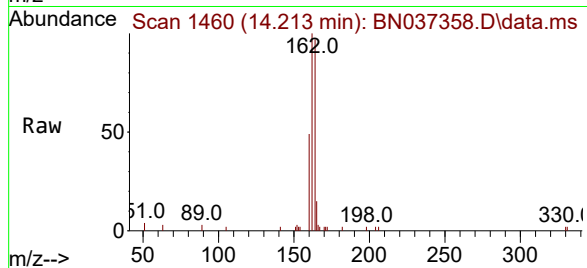




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

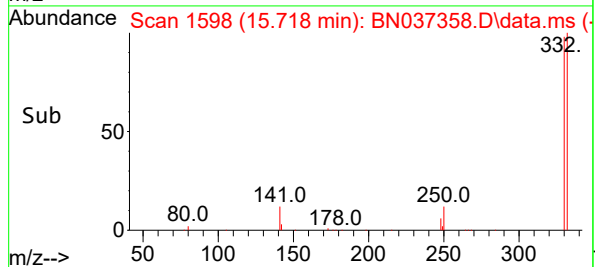
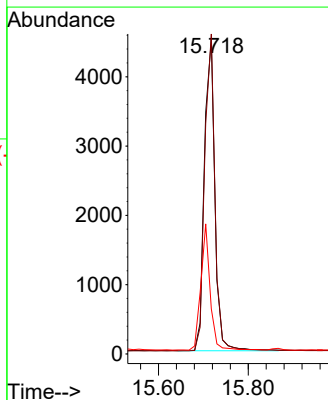
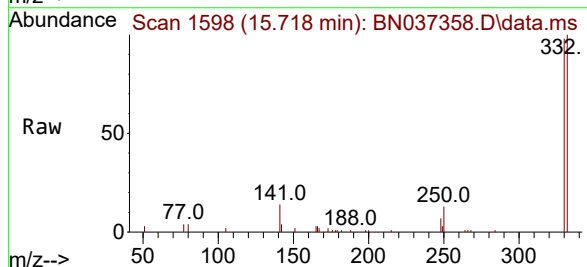
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

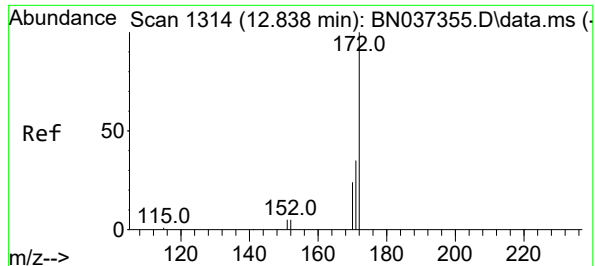
Tgt Ion:164 Resp: 3830
Ion Ratio Lower Upper
164 100
162 103.5 81.5 122.3
160 51.1 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 2.664 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:330 Resp: 7296
Ion Ratio Lower Upper
330 100
332 98.6 78.4 117.6
141 35.6 24.4 36.6

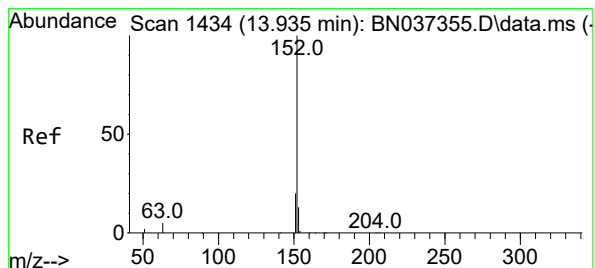
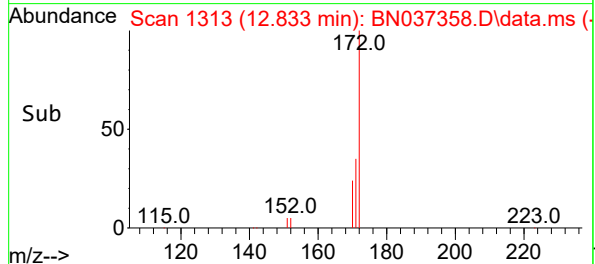
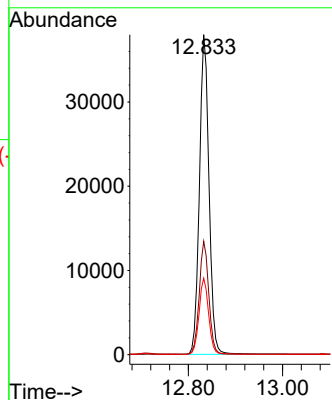
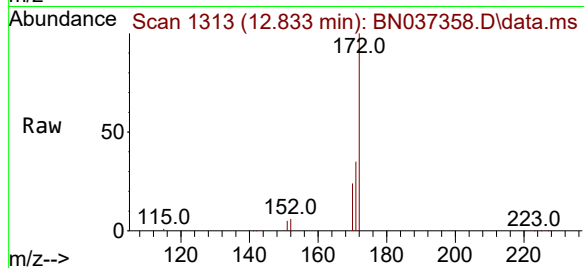




#15
2-Fluorobiphenyl
Concen: 3.194 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

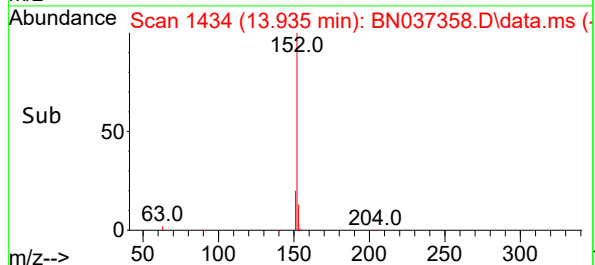
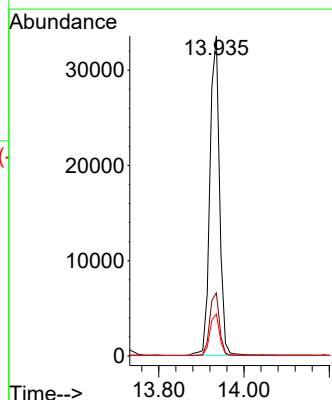
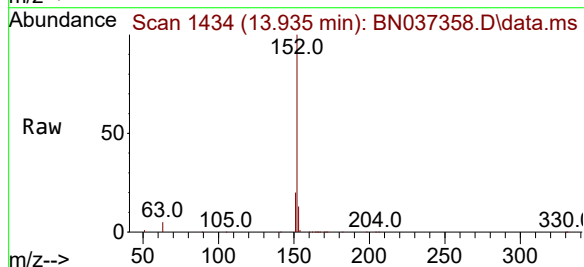
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

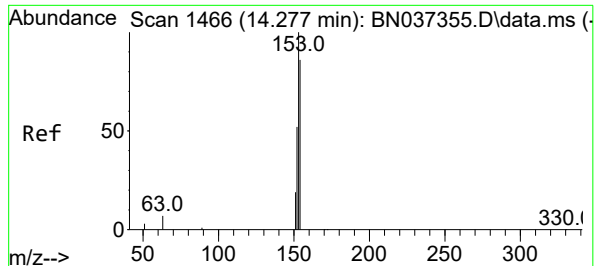
Tgt Ion:172 Resp: 53666
Ion Ratio Lower Upper
172 100
171 35.5 30.8 46.2
170 23.9 21.9 32.9



#16
Acenaphthylene
Concen: 3.272 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:152 Resp: 52599
Ion Ratio Lower Upper
152 100
151 19.8 16.6 24.8
153 13.1 10.2 15.2

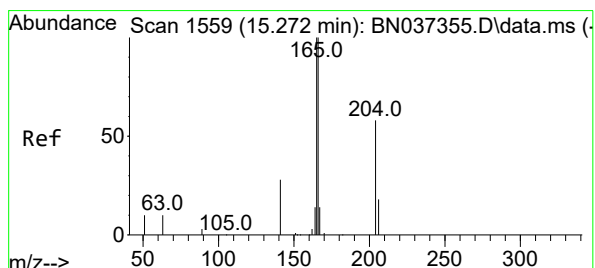
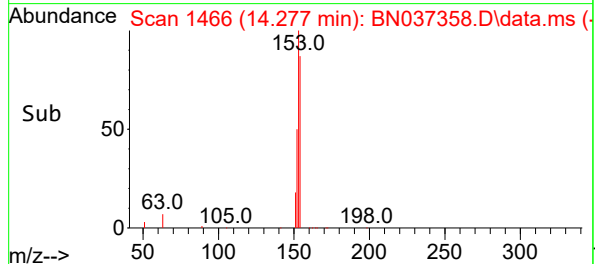
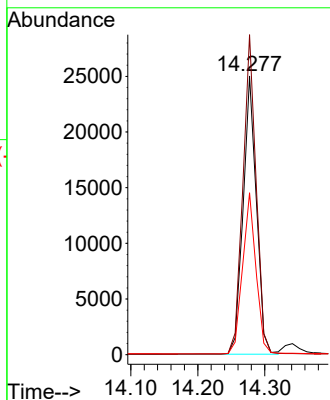
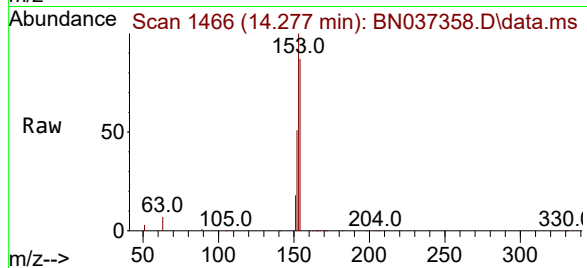




#17
Acenaphthene
Concen: 3.229 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

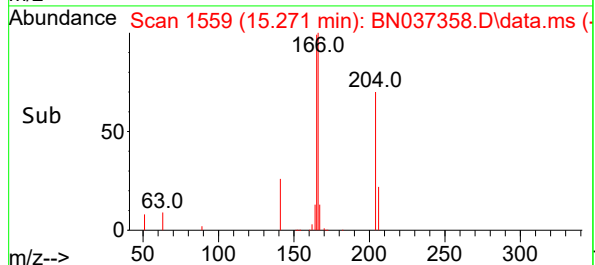
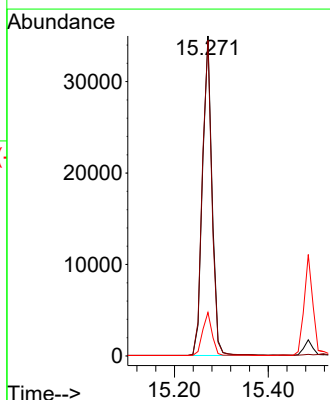
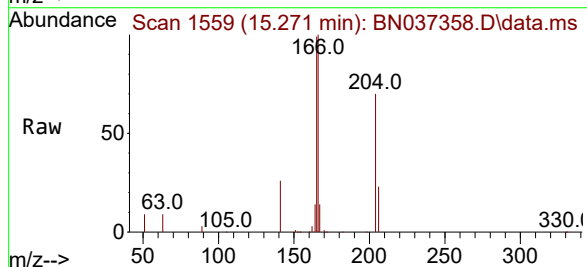
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

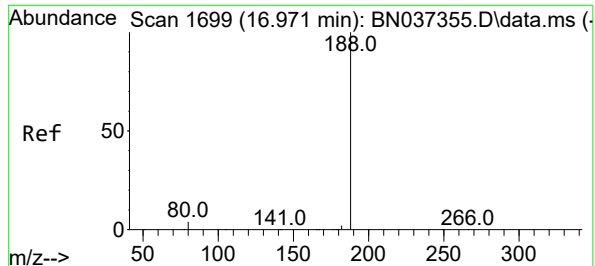
Tgt Ion:154 Resp: 34413
Ion Ratio Lower Upper
154 100
153 114.5 93.1 139.7
152 58.7 48.6 73.0



#18
Fluorene
Concen: 3.256 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:166 Resp: 49180
Ion Ratio Lower Upper
166 100
165 99.3 79.5 119.3
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

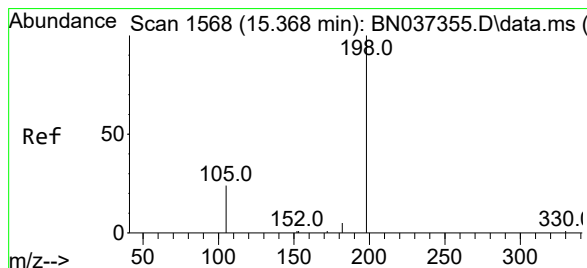
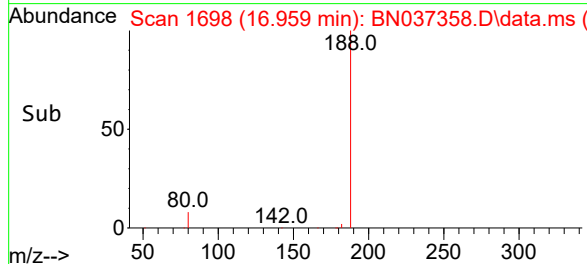
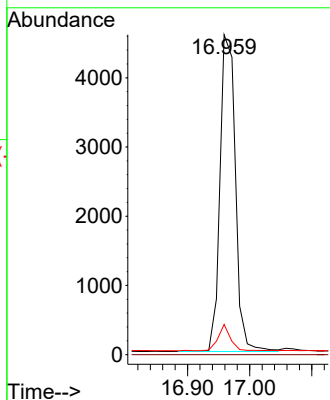
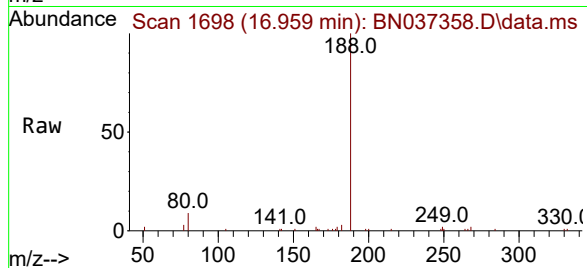
Tgt Ion:188 Resp: 7833

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 2.838 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

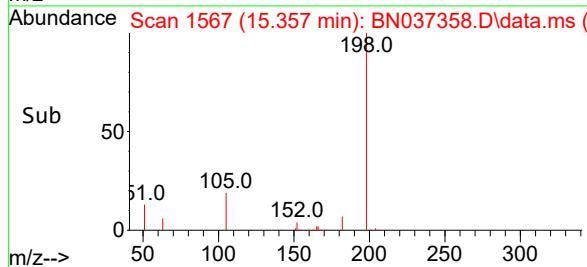
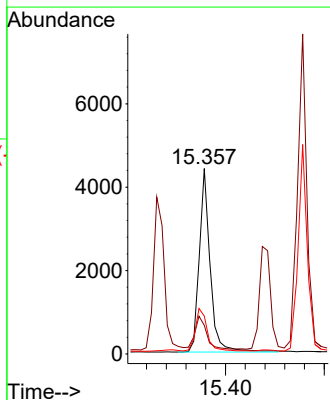
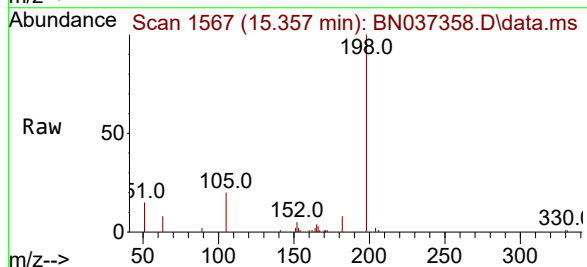
Tgt Ion:198 Resp: 6721

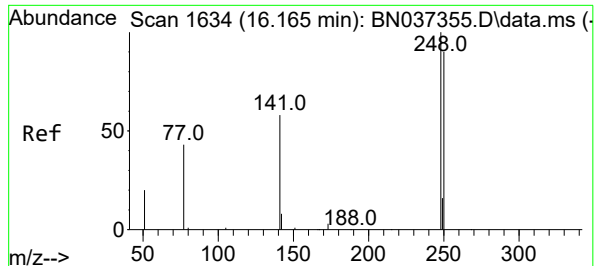
Ion Ratio Lower Upper

198 100

51 15.4 51.4 77.0#

105 20.5 45.5 68.3#

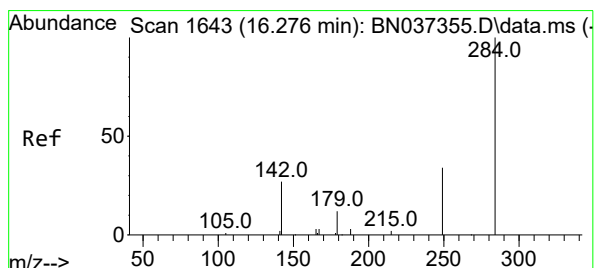
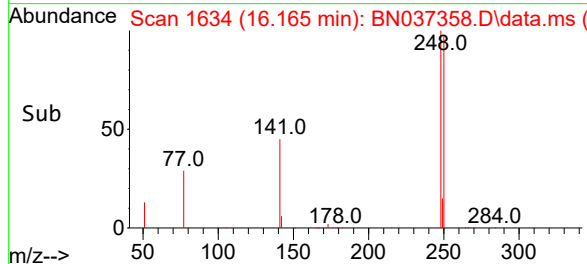
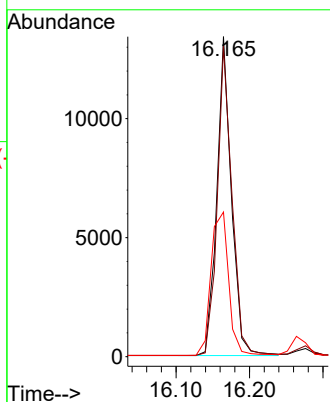
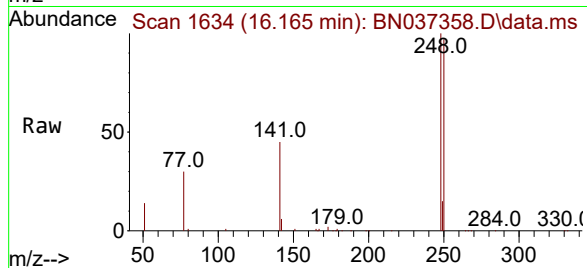




#21
4-Bromophenyl-phenylether
Concen: 2.891 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

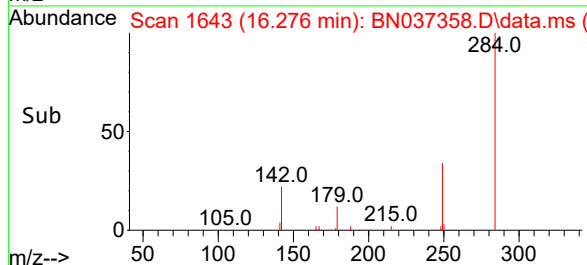
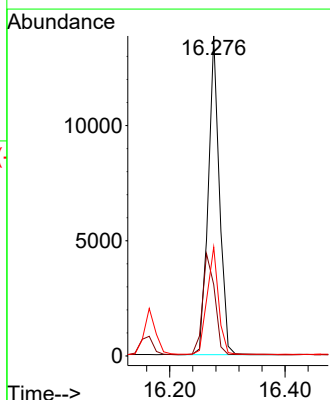
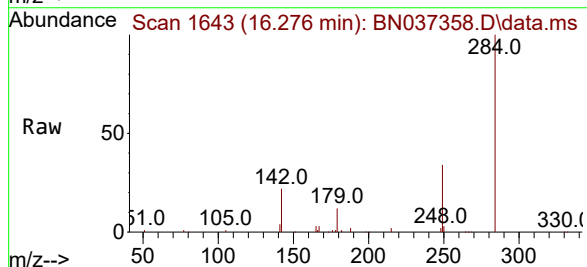
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

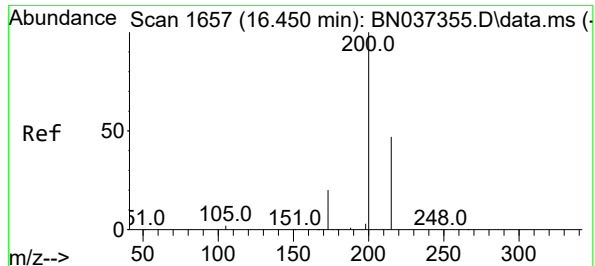
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.9	80.4	120.6
141	45.2	33.3	49.9



#22
Hexachlorobenzene
Concen: 2.784 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.8	27.0	40.6
249	34.5	28.8	43.2

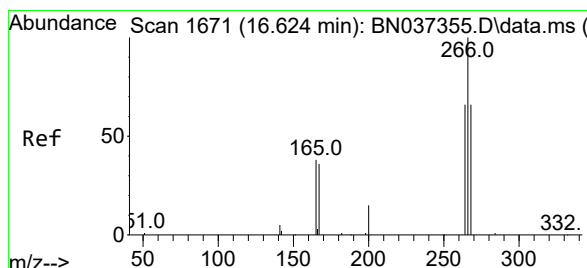
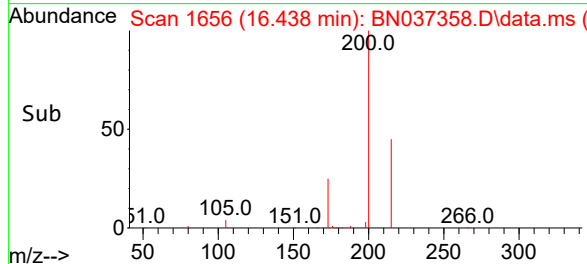
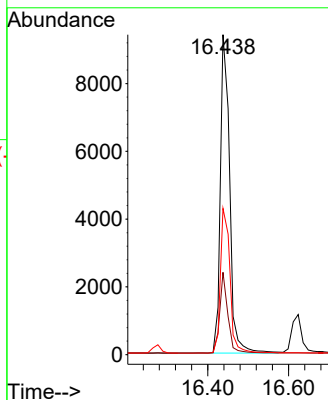
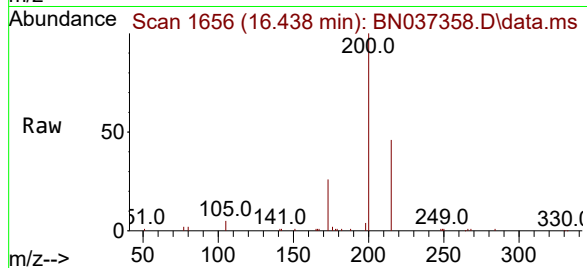




#23
Atrazine
Concen: 2.988 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

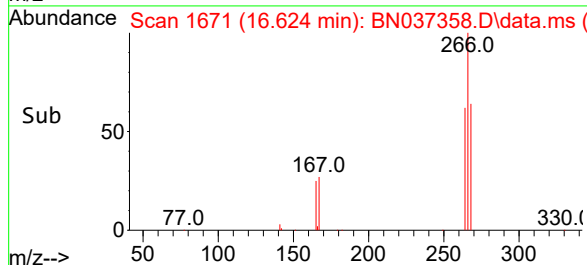
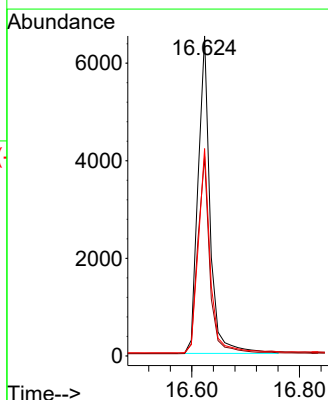
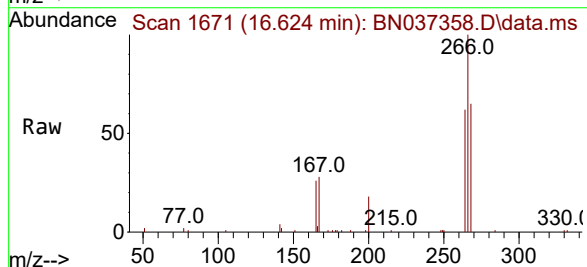
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

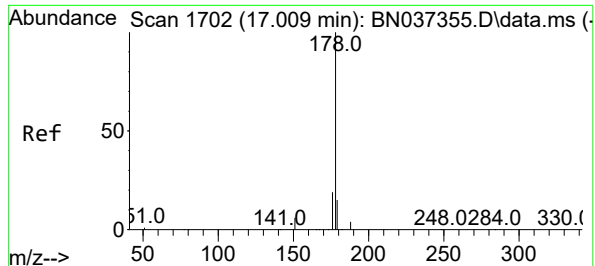
Tgt Ion:200 Resp: 14961
Ion Ratio Lower Upper
200 100
173 25.8 29.2 43.8#
215 45.7 48.8 73.2#



#24
Pentachlorophenol
Concen: 2.761 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:266 Resp: 10110
Ion Ratio Lower Upper
266 100
264 62.8 50.3 75.5
268 64.4 55.3 82.9

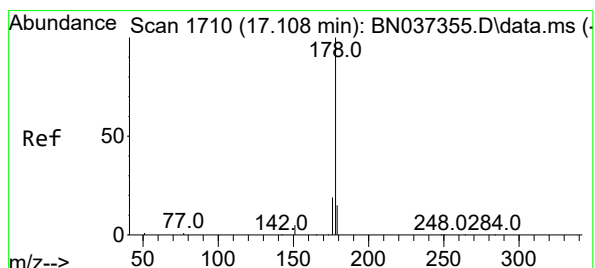
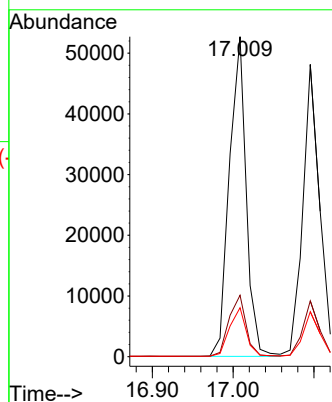
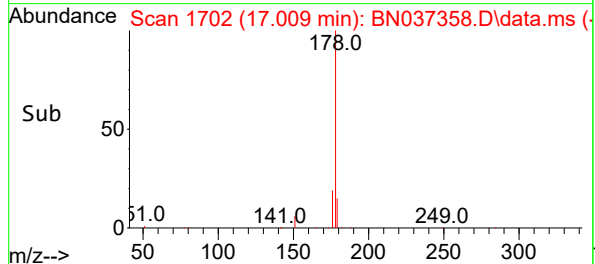
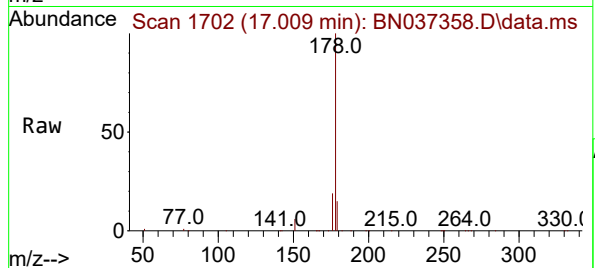




#25
Phenanthrene
Concen: 3.455 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

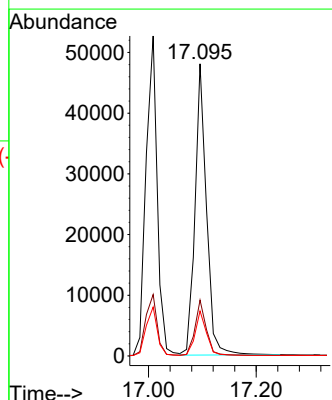
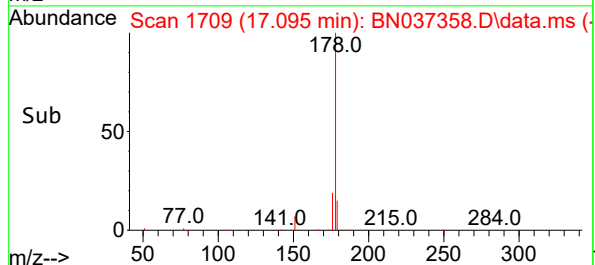
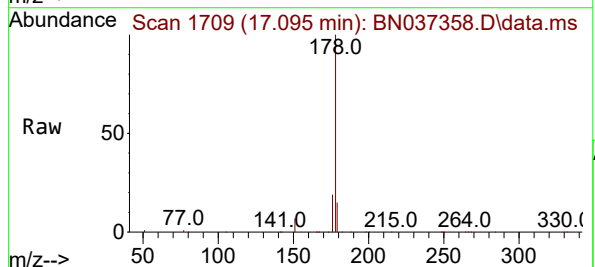
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

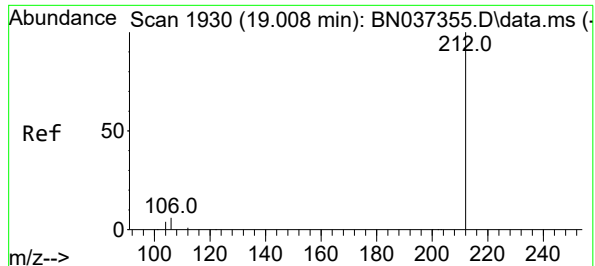
Tgt Ion:178 Resp: 76487
Ion Ratio Lower Upper
178 100
176 19.4 15.2 22.8
179 15.2 12.9 19.3



#26
Anthracene
Concen: 3.446 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:178 Resp: 71218
Ion Ratio Lower Upper
178 100
176 18.8 14.7 22.1
179 15.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 2.957 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

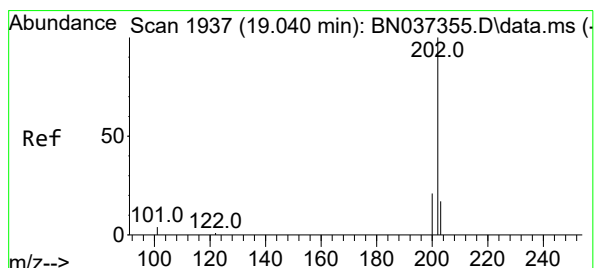
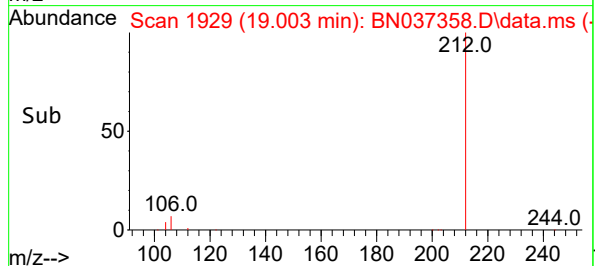
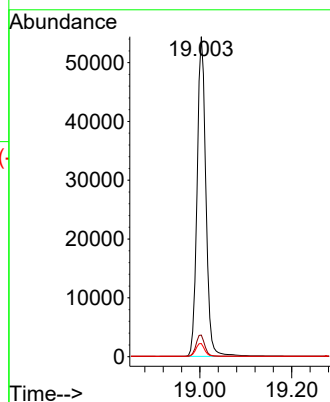
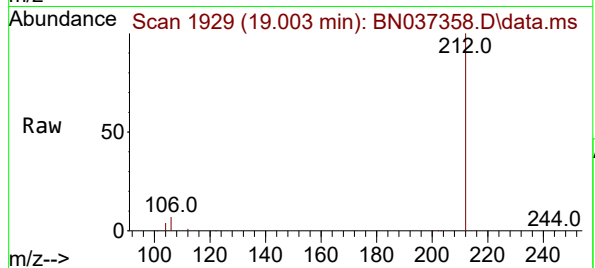
Tgt Ion:212 Resp: 72122

Ion Ratio Lower Upper

212 100

106 6.8 3.0 4.4#

104 4.1 2.0 3.0#



#28

Fluoranthene

Concen: 3.129 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

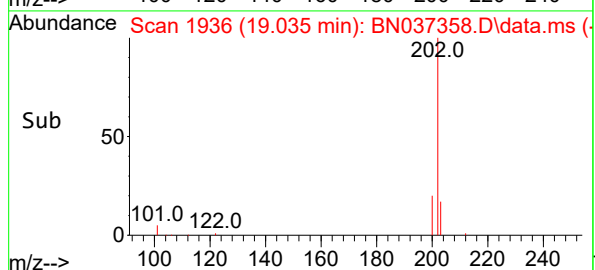
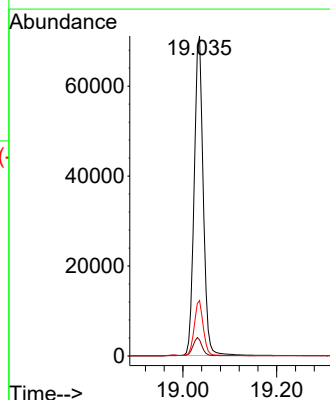
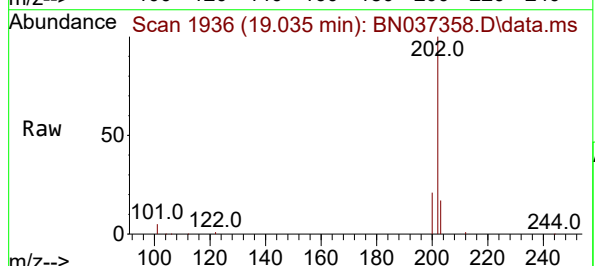
Tgt Ion:202 Resp: 94745

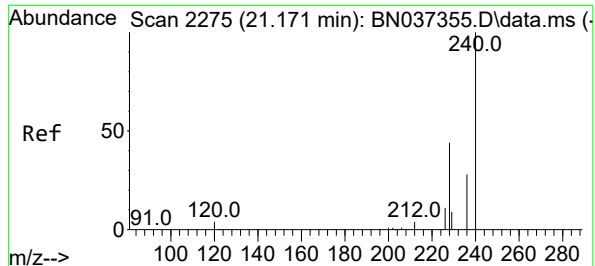
Ion Ratio Lower Upper

202 100

101 5.9 3.0 4.6#

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

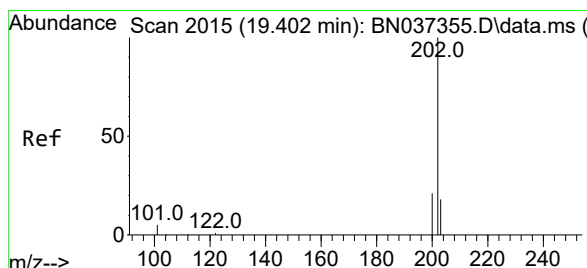
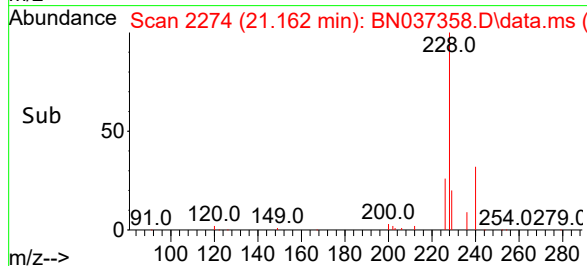
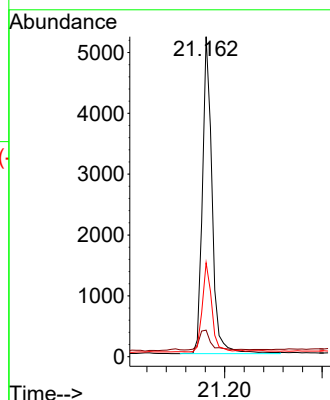
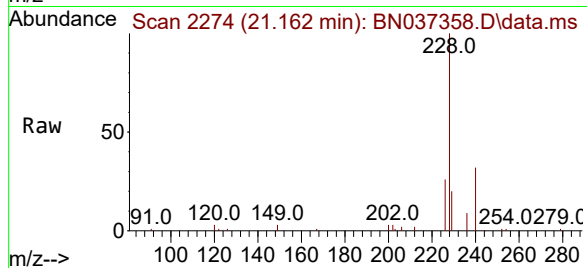
Tgt Ion:240 Resp: 7155

Ion Ratio Lower Upper

240 100

120 8.3 7.5 11.3

236 29.3 24.9 37.3



#30

Pyrene

Concen: 3.430 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

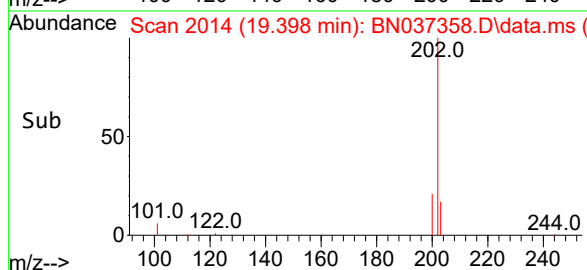
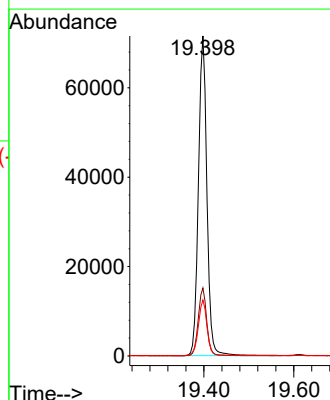
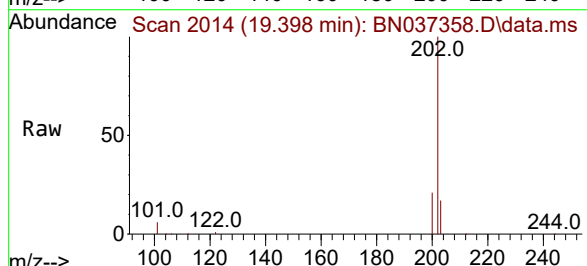
Tgt Ion:202 Resp: 93984

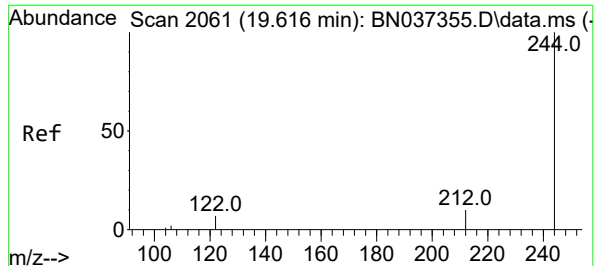
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.8 14.5 21.7

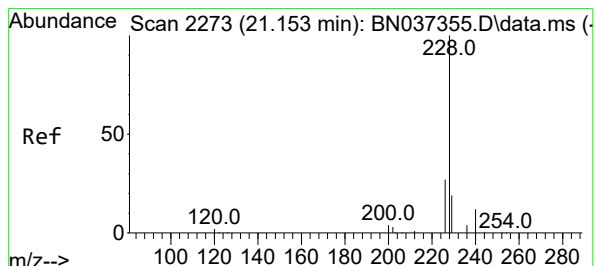
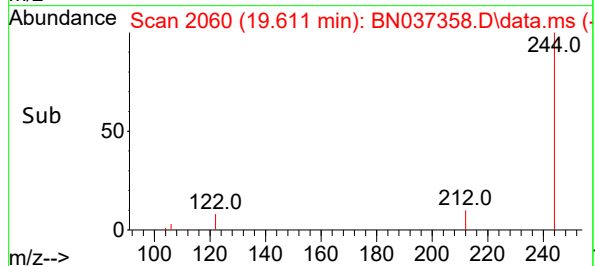
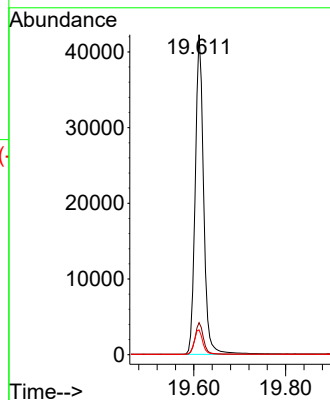
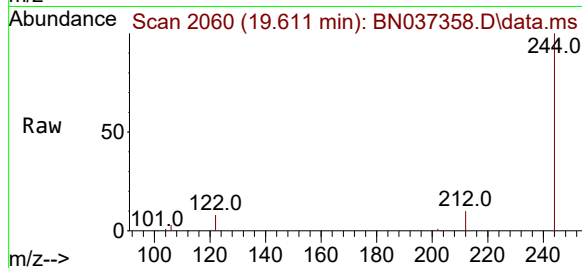




#31
Terphenyl-d14
Concen: 3.277 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

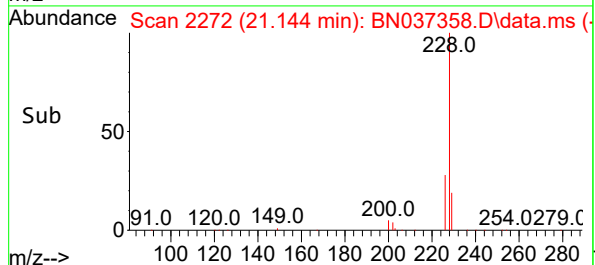
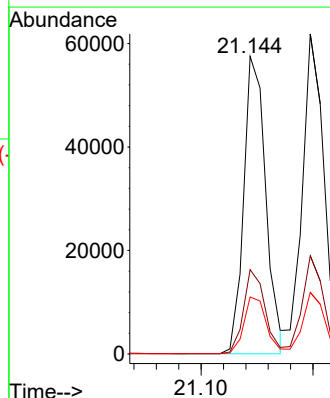
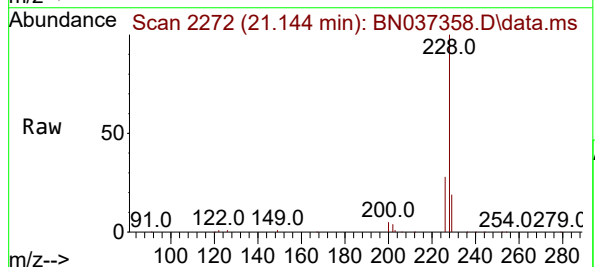
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

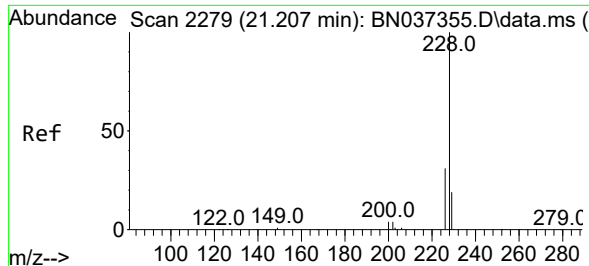
Tgt Ion:244 Resp: 53536
Ion Ratio Lower Upper
244 100
212 10.0 11.1 16.7#
122 7.7 7.2 10.8



#32
Benzo(a)anthracene
Concen: 3.401 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:228 Resp: 78532
Ion Ratio Lower Upper
228 100
226 28.4 23.0 34.4
229 19.1 17.4 26.0





#33

Chrysene

Concen: 2.987 ng

RT: 21.197 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

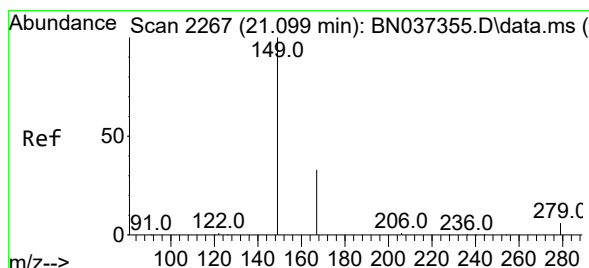
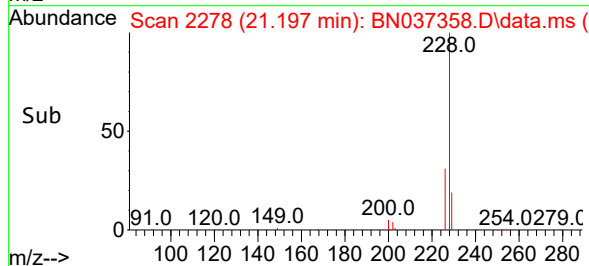
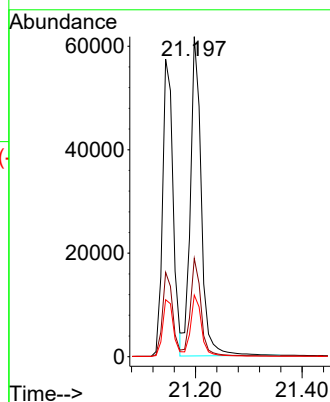
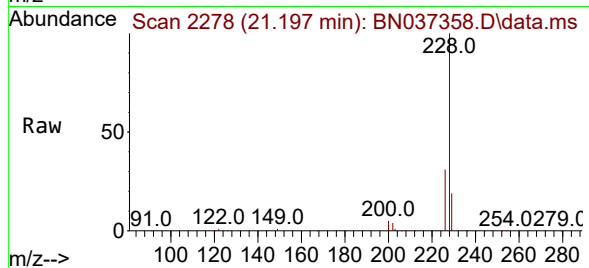
Tgt Ion:228 Resp: 87474

Ion Ratio Lower Upper

228 100

226 30.7 25.4 38.2

229 19.3 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.214 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

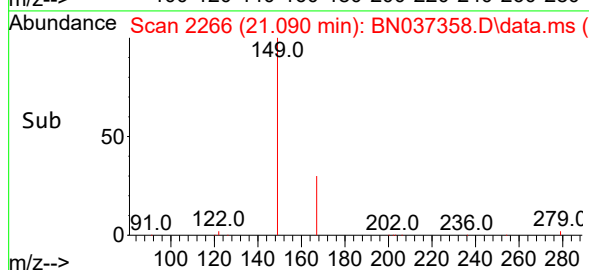
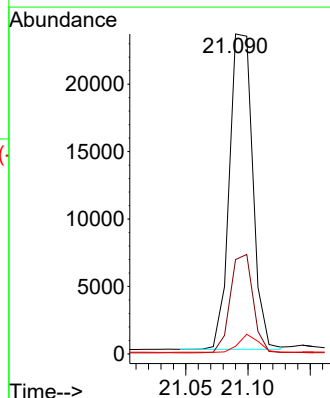
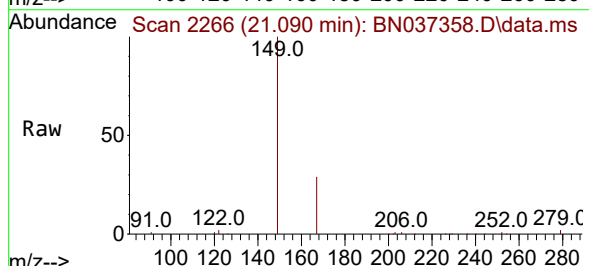
Tgt Ion:149 Resp: 30412

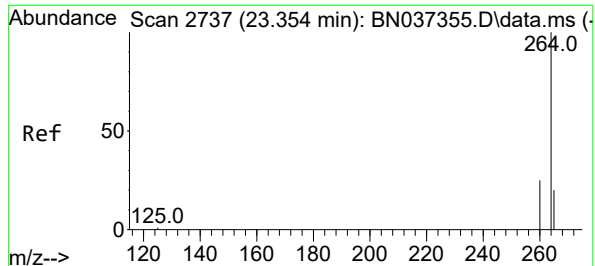
Ion Ratio Lower Upper

149 100

167 30.6 24.6 37.0

279 5.0 6.5 9.7#

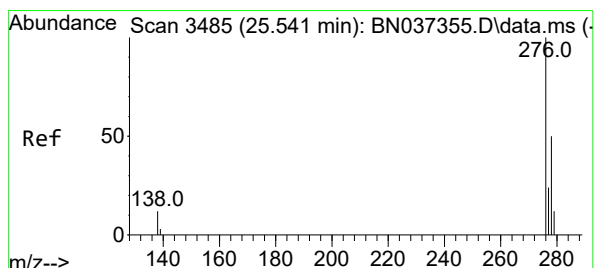
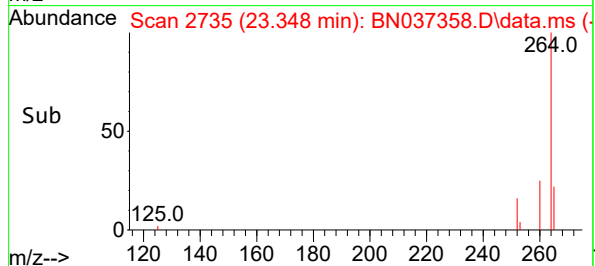
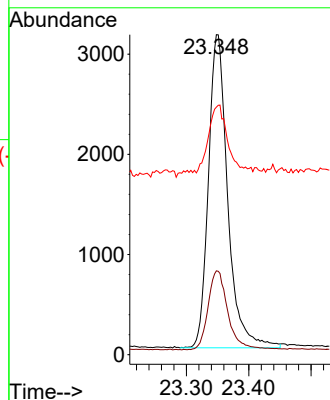
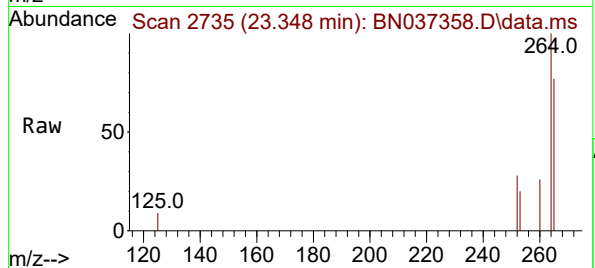




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

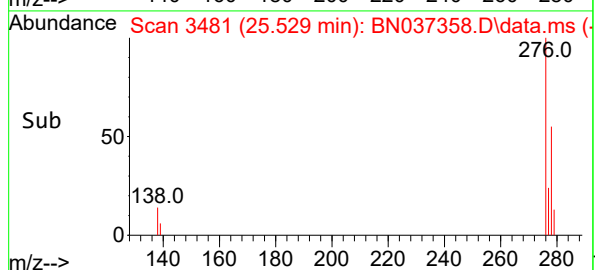
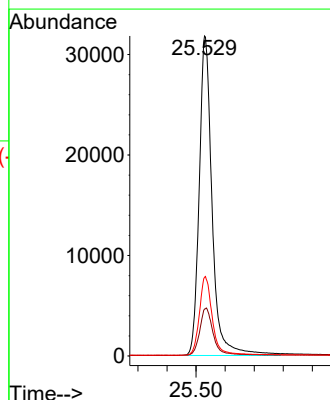
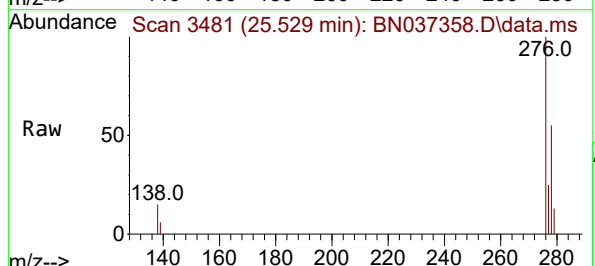
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

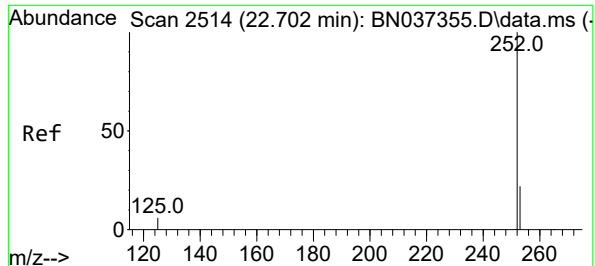
Tgt Ion:264 Resp: 6736
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.2
265 77.3 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.433 ng
RT: 25.529 min Scan# 3481
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:276 Resp: 98025
Ion Ratio Lower Upper
276 100
138 15.2 2.2 3.2#
277 24.7 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 3.456 ng

RT: 22.696 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037358.D

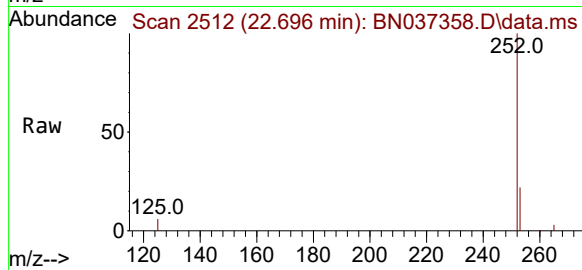
Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



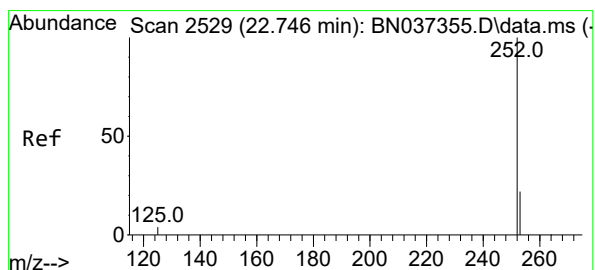
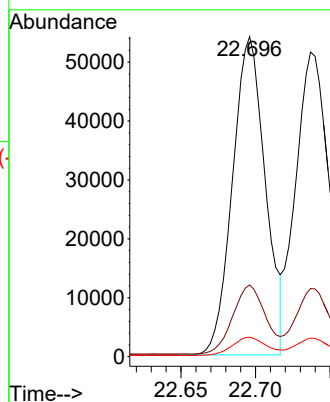
Tgt Ion:252 Resp: 82568

Ion Ratio Lower Upper

252 100

253 22.4 26.6 40.0#

125 6.1 6.1 9.1



#38

Benzo(k)fluoranthene

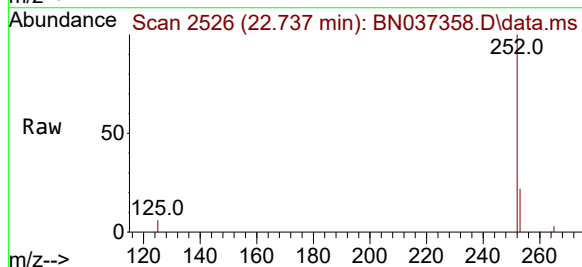
Concen: 3.359 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51



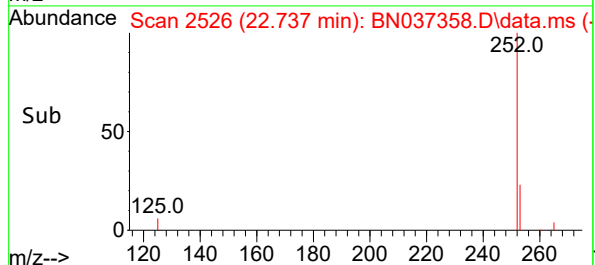
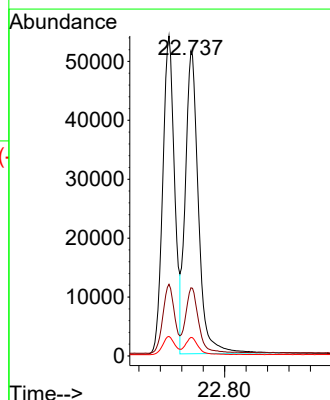
Tgt Ion:252 Resp: 87144

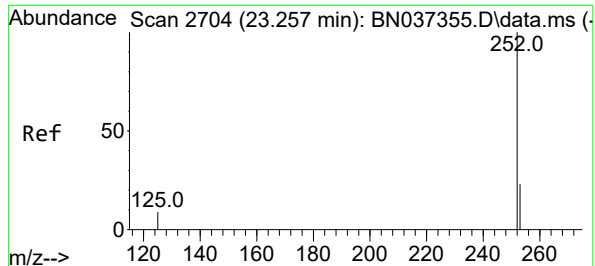
Ion Ratio Lower Upper

252 100

253 22.4 26.7 40.1#

125 6.1 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 3.323 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

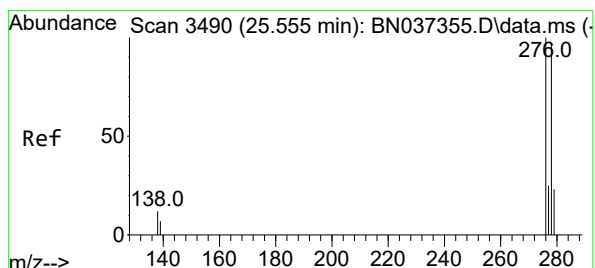
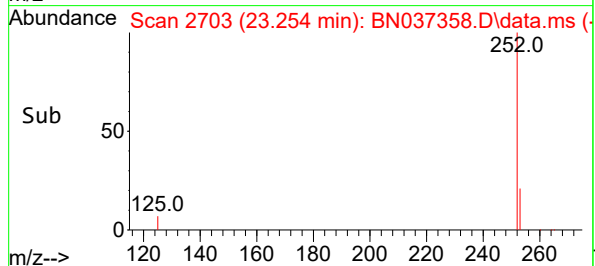
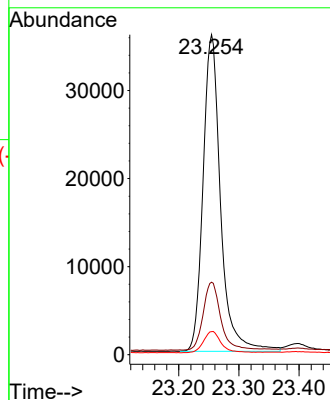
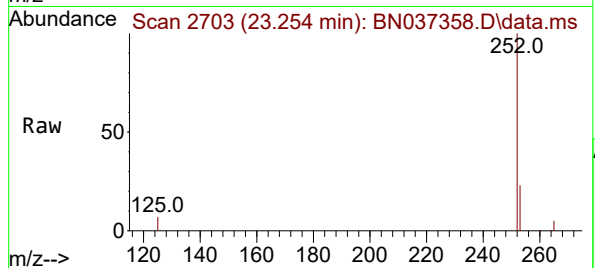
Tgt Ion:252 Resp: 72643

Ion Ratio Lower Upper

252 100

253 22.7 31.6 47.4#

125 7.2 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 3.426 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

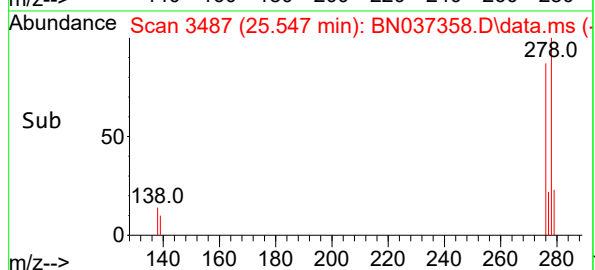
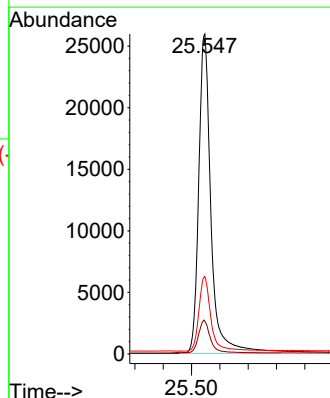
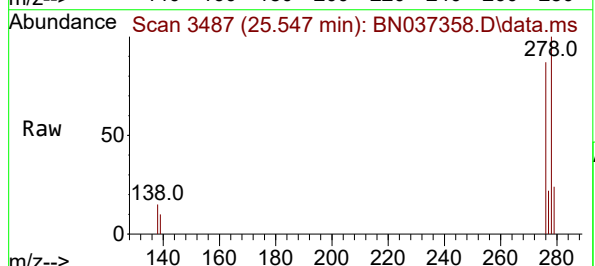
Tgt Ion:278 Resp: 77899

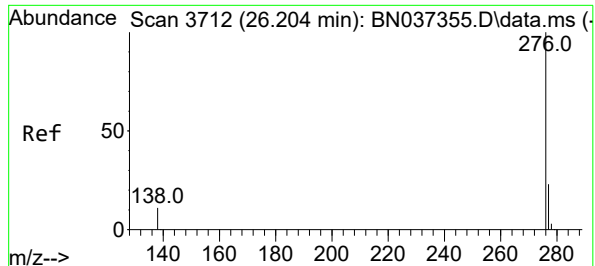
Ion Ratio Lower Upper

278 100

139 10.2 10.2 15.4#

279 24.2 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 3.239 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037358.D

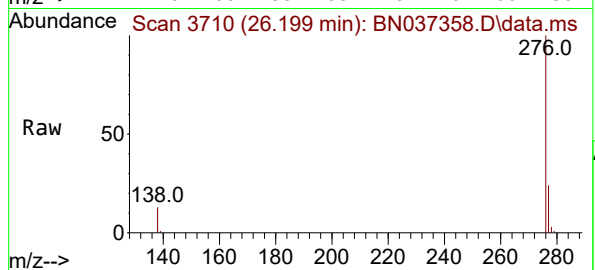
Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



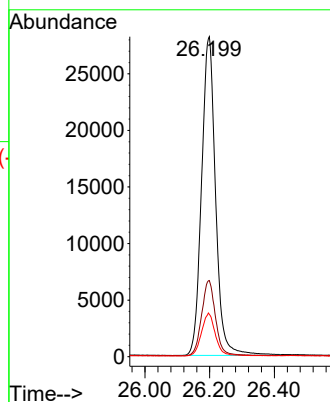
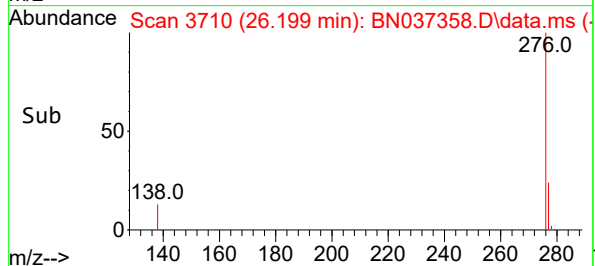
Tgt Ion:276 Resp: 84957

Ion Ratio Lower Upper

276 100

277 23.8 22.7 34.1

138 13.3 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037359.D
 Acq On : 20 Jun 2025 20:27
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 20 23:28:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

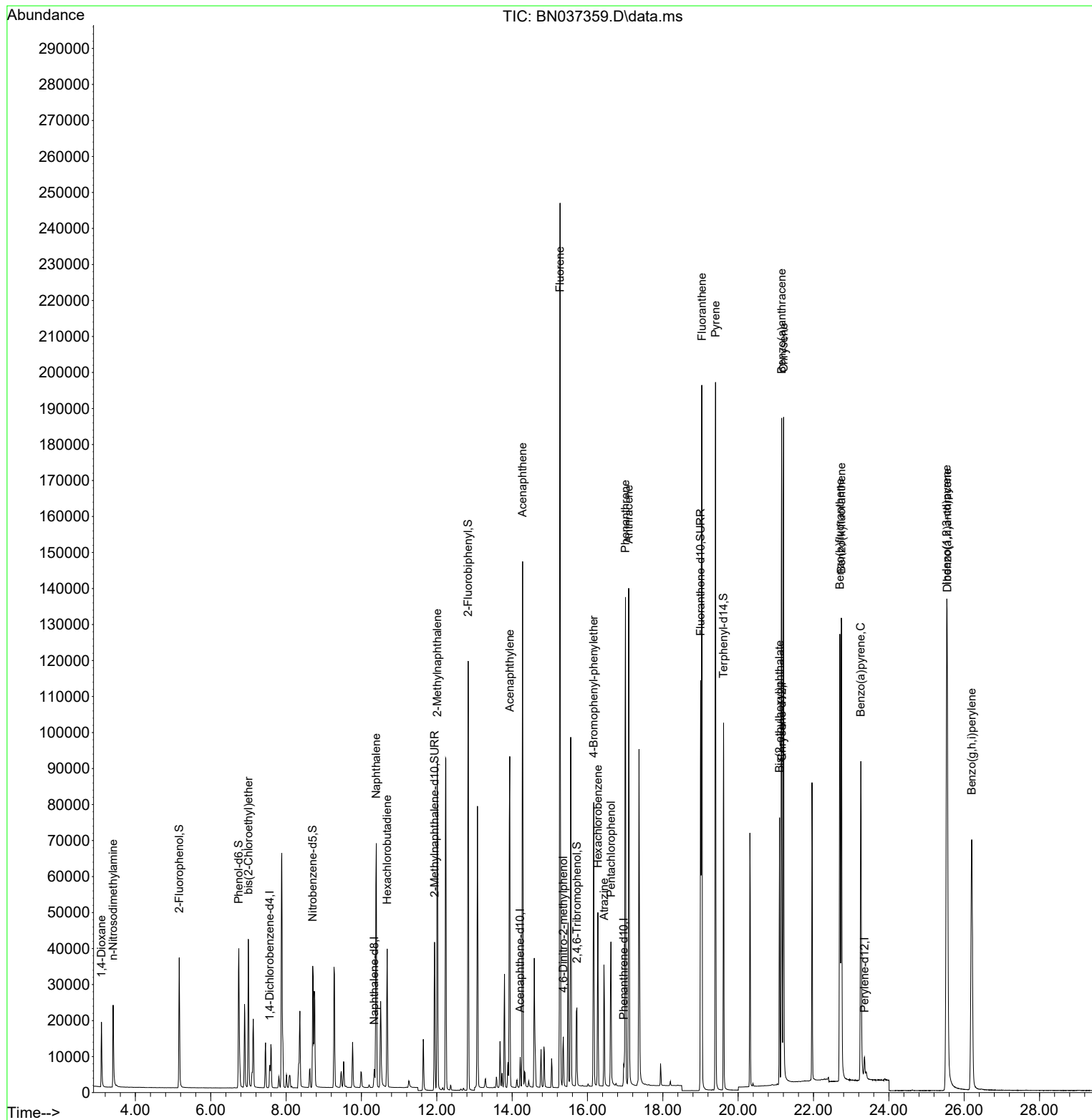
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	3043	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	6418	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	4465	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	9254	0.400	ng	#-0.01
29) Chrysene-d12	21.162	240	8543	0.400	ng	0.00
35) Perylene-d12	23.354	264	7704	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	29312	5.270	ng	0.00
5) Phenol-d6	6.744	99	34073	6.190	ng	0.00
8) Nitrobenzene-d5	8.707	82	28934	5.432	ng	-0.01
11) 2-Methylnaphthalene-d10	11.940	152	54112	5.210	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	13707	4.292	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	99254	5.067	ng	0.00
27) Fluoranthene-d10	19.003	212	133941	4.649	ng	0.00
31) Terphenyl-d14	19.611	244	98354	5.042	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	13159	4.896	ng	Qvalue 90
3) n-Nitrosodimethylamine	3.408	42	12840	4.103	ng	# 68
6) bis(2-Chloroethyl)ether	6.997	93	30083	6.246	ng	97
9) Naphthalene	10.394	128	85311	5.128	ng	# 86
10) Hexachlorobutadiene	10.682	225	30147	3.708	ng	# 99
12) 2-Methylnaphthalene	12.011	142	63177	5.400	ng	# 91
16) Acenaphthylene	13.935	152	99681	5.319	ng	98
17) Acenaphthene	14.277	154	64734	5.211	ng	98
18) Fluorene	15.271	166	92629	5.260	ng	99
20) 4,6-Dinitro-2-methylph...	15.357	198	13168	4.707	ng	# 44
21) 4-Bromophenyl-phenylether	16.165	248	34583	4.578	ng	94
22) Hexachlorobenzene	16.276	284	33797	4.288	ng	98
23) Atrazine	16.438	200	27492	4.648	ng	# 81
24) Pentachlorophenol	16.624	266	19702	4.555	ng	97
25) Phenanthrene	17.009	178	141308	5.404	ng	99
26) Anthracene	17.095	178	135503	5.549	ng	99
28) Fluoranthene	19.035	202	175639	4.910	ng	# 98
30) Pyrene	19.398	202	175487	5.364	ng	99
32) Benzo(a)anthracene	21.153	228	152551	5.534	ng	97
33) Chrysene	21.206	228	159633	4.566	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	59151	5.235	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.535	276	178739	5.473	ng	# 89
37) Benzo(b)fluoranthene	22.699	252	152855	5.595	ng	# 83
38) Benzo(k)fluoranthene	22.740	252	162397	5.473	ng	# 83
39) Benzo(a)pyrene	23.254	252	134379	5.375	ng	# 76
40) Dibenzo(a,h)anthracene	25.549	278	142364	5.474	ng	# 74
41) Benzo(g,h,i)perylene	26.199	276	153920	5.131	ng	92

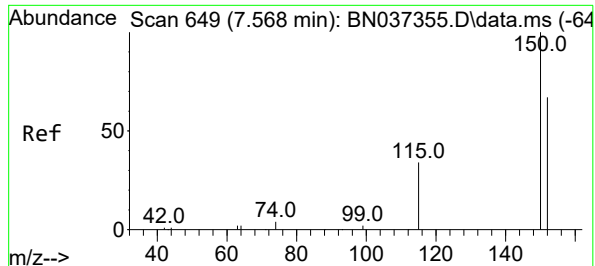
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037359.D
Acq On : 20 Jun 2025 20:27
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 20 23:28:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

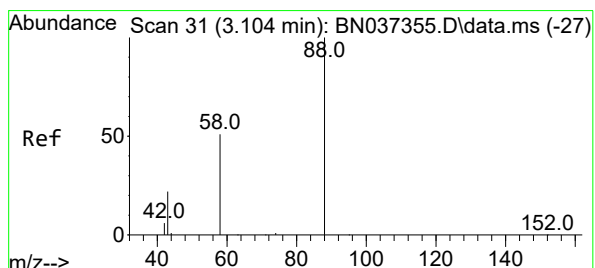
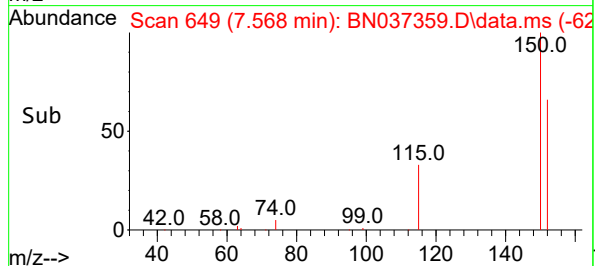
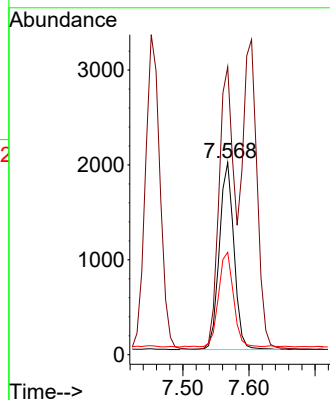
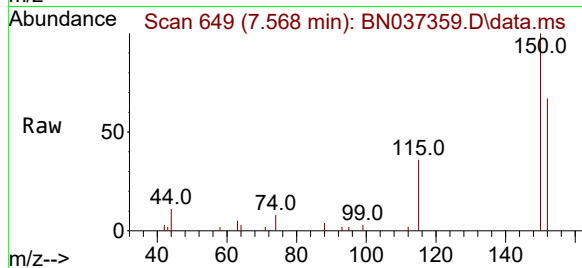




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

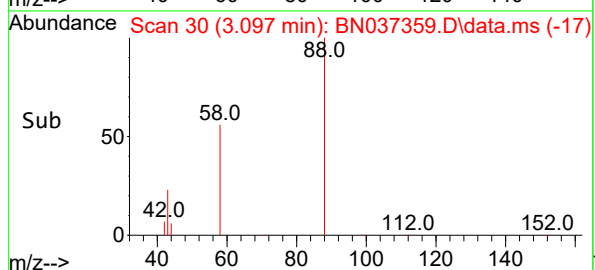
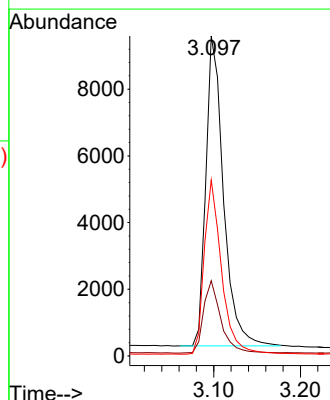
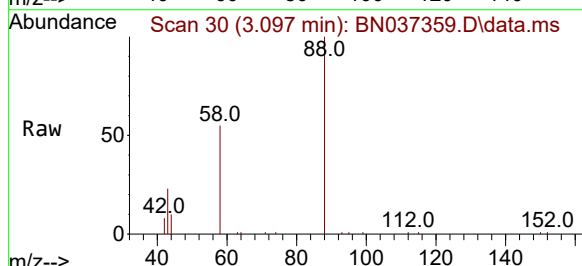
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

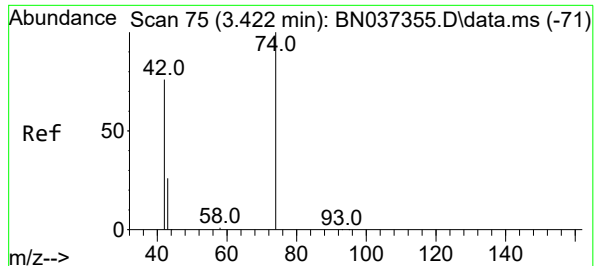
Tgt Ion:152 Resp: 3043
Ion Ratio Lower Upper
152 100
150 149.8 112.7 169.1
115 53.3 45.9 68.9



#2
1,4-Dioxane
Concen: 4.896 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 88 Resp: 13159
Ion Ratio Lower Upper
88 100
43 22.8 21.0 31.6
58 55.2 38.0 57.0

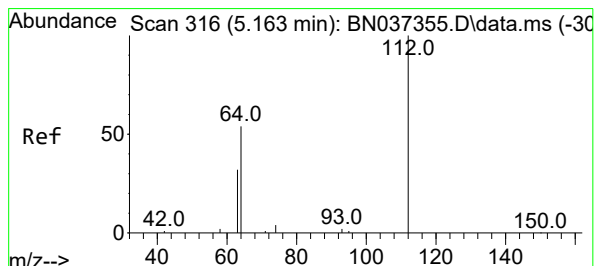
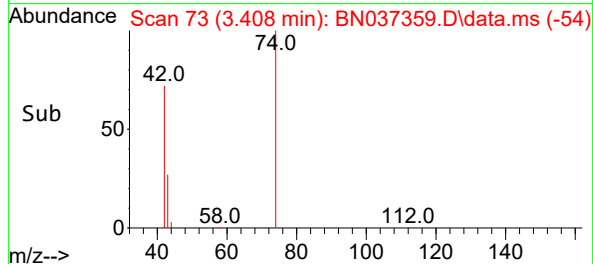
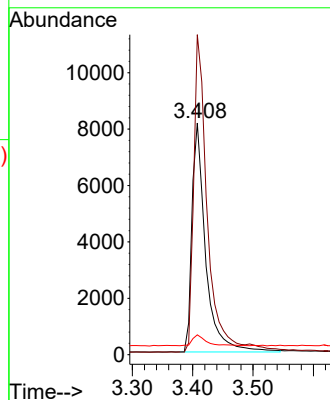
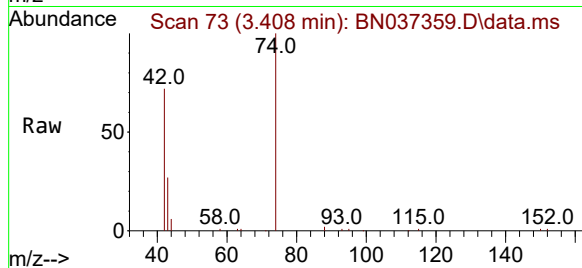




#3
n-Nitrosodimethylamine
Concen: 4.103 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

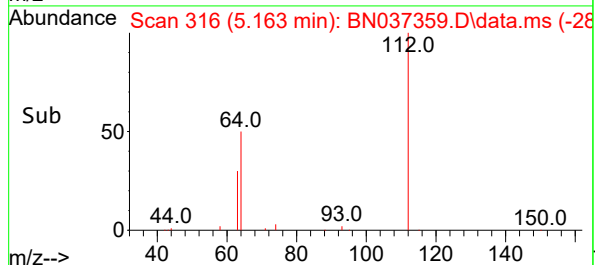
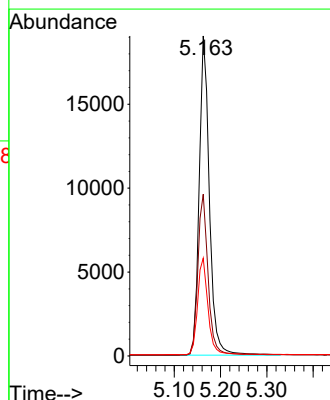
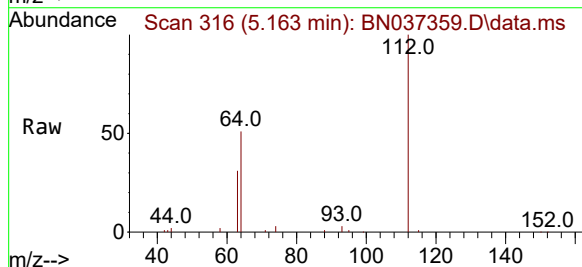
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

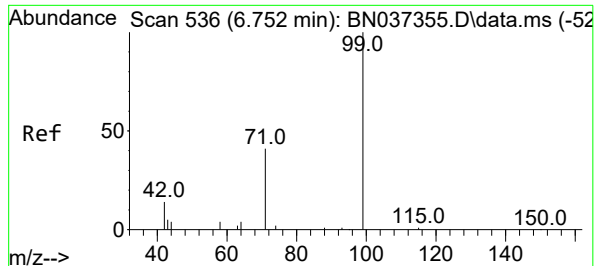
Tgt Ion: 42 Resp: 12840
Ion Ratio Lower Upper
42 100
74 139.7 84.3 126.5#
44 5.0 5.0 7.4



#4
2-Fluorophenol
Concen: 5.270 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 112 Resp: 29312
Ion Ratio Lower Upper
112 100
64 50.9 38.7 58.1
63 30.9 26.4 39.6

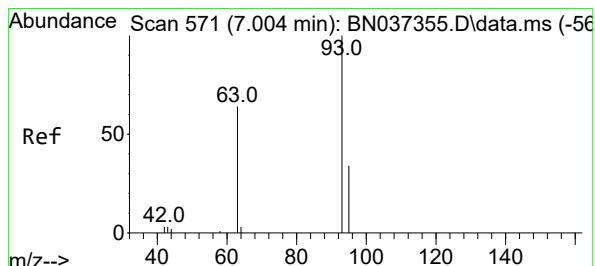
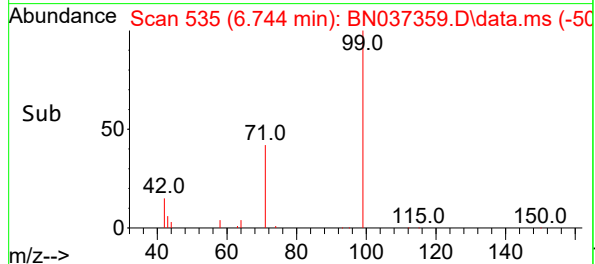
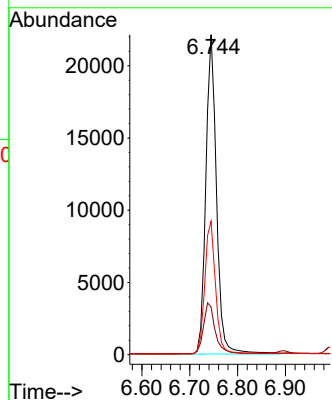
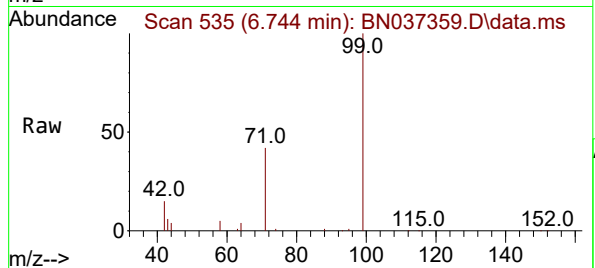




#5
Phenol-d6
Concen: 6.190 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

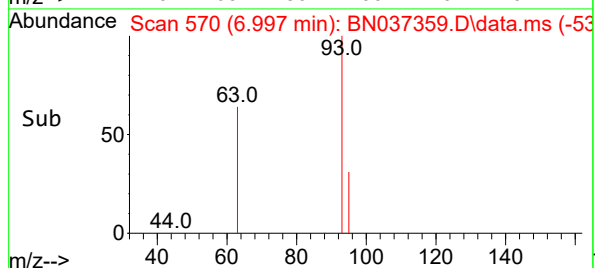
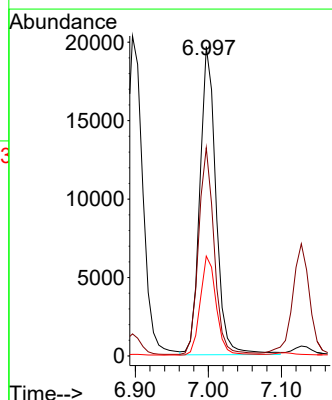
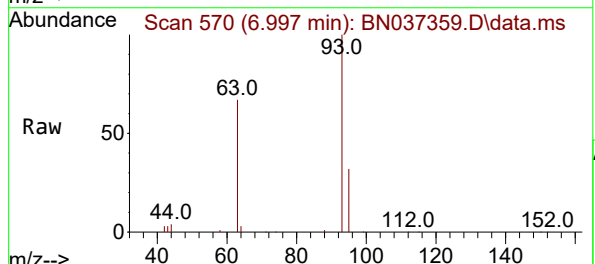
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

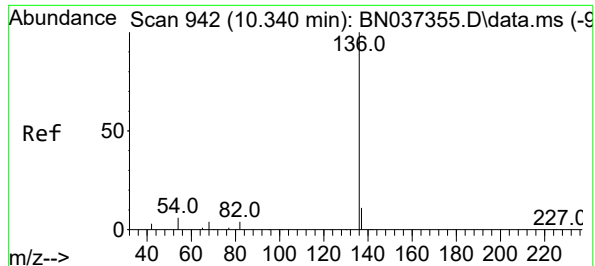
Tgt Ion: 99 Resp: 34073
Ion Ratio Lower Upper
99 100
42 17.4 19.8 29.8#
71 42.6 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 6.246 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 93 Resp: 30083
Ion Ratio Lower Upper
93 100
63 64.8 53.2 79.8
95 31.7 27.3 40.9

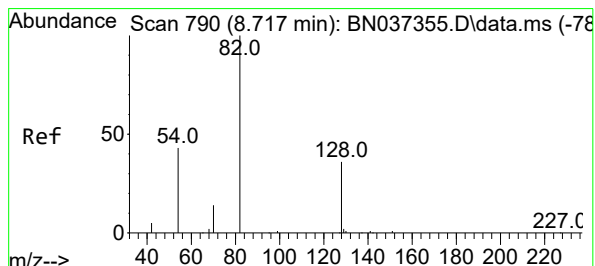
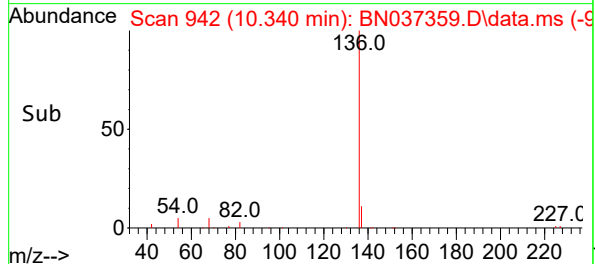
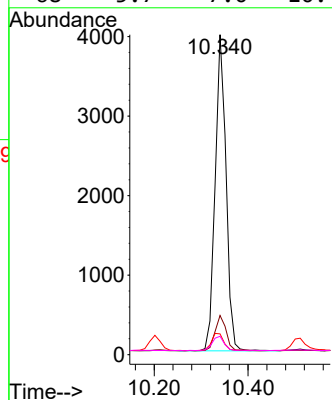
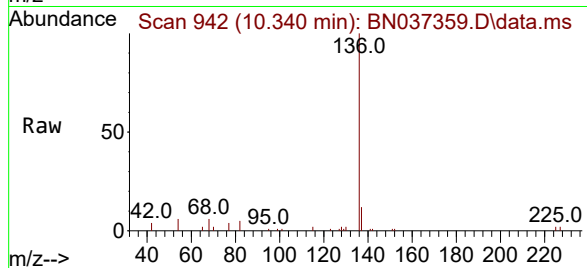




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

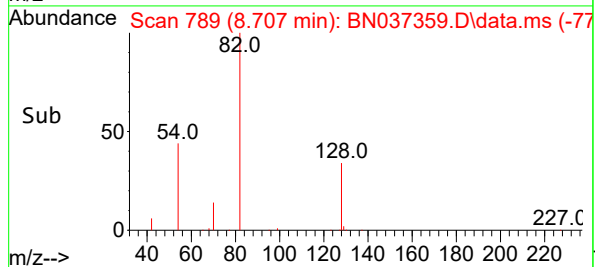
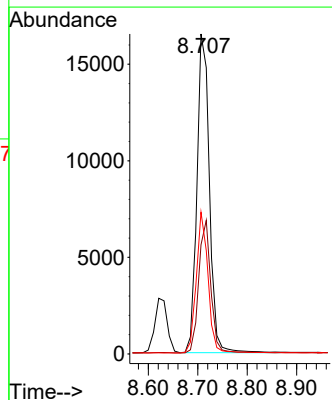
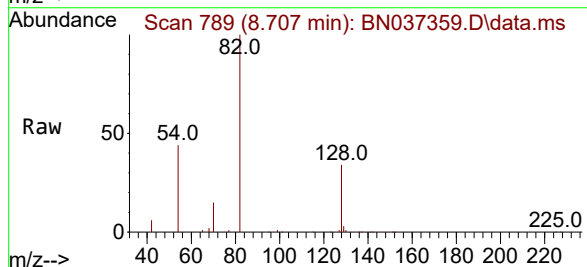
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

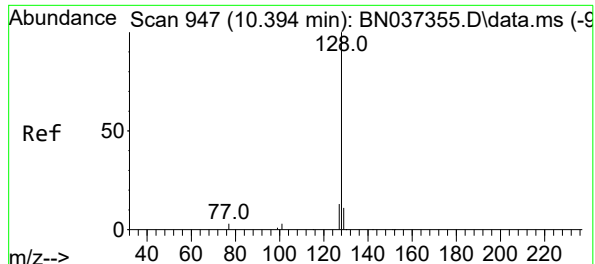
Tgt Ion:136 Resp: 6418
Ion Ratio Lower Upper
136 100
137 12.3 12.2 18.2
54 6.5 8.8 13.2#
68 5.7 7.0 10.4#



#8
Nitrobenzene-d5
Concen: 5.432 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 82 Resp: 28934
Ion Ratio Lower Upper
82 100
128 34.1 42.5 63.7#
54 44.3 43.2 64.8

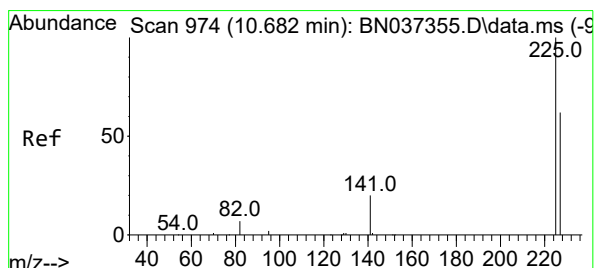
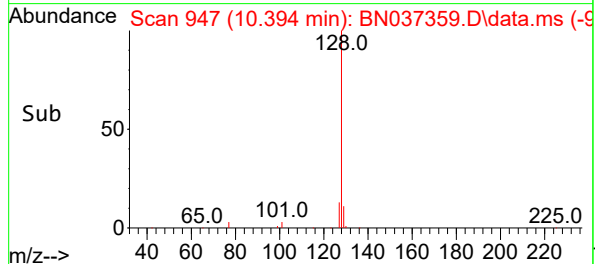
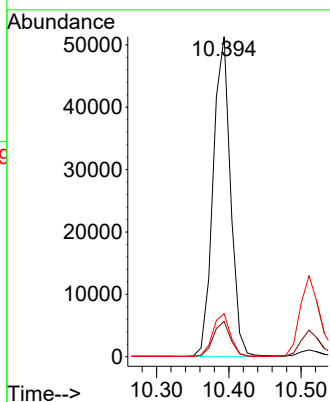
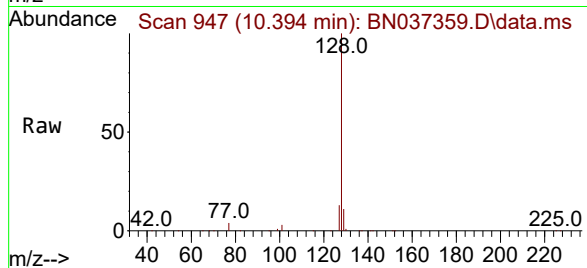




#9
Naphthalene
Concen: 5.128 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

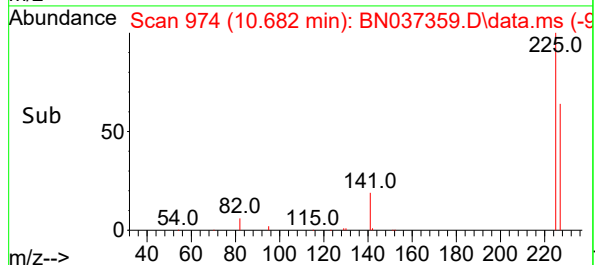
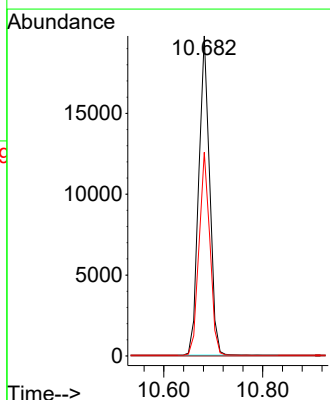
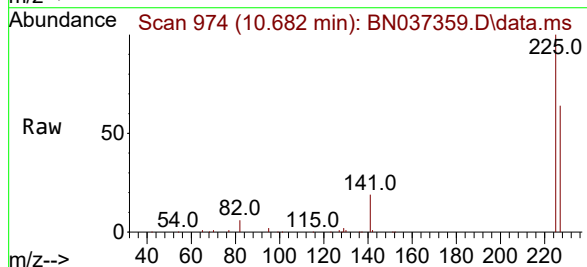
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

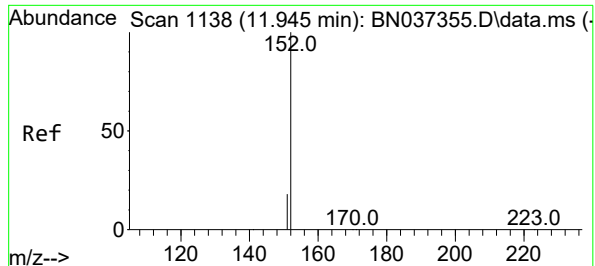
Tgt Ion:128 Resp: 85311
Ion Ratio Lower Upper
128 100
129 11.0 14.0 21.0#
127 13.5 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 3.708 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:225 Resp: 30147
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.3 75.5

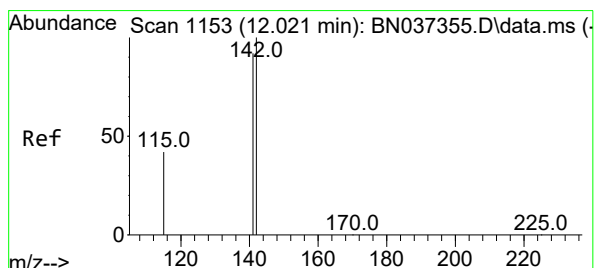
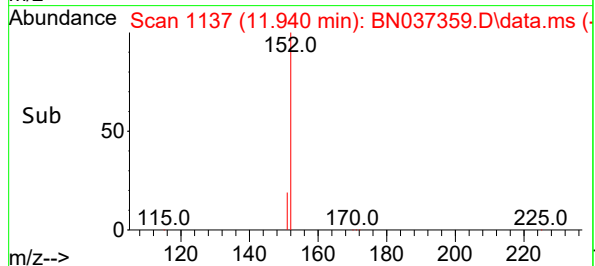
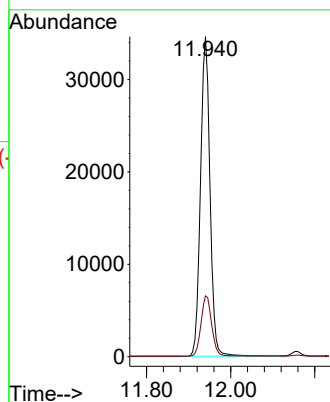
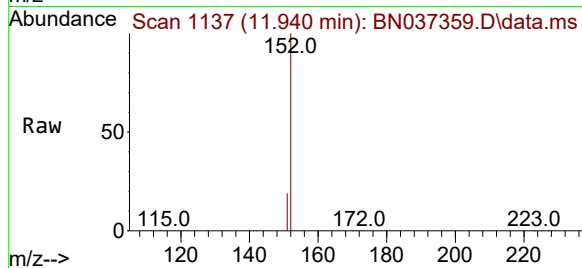




#11
2-Methylnaphthalene-d10
Concen: 5.210 ng
RT: 11.940 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

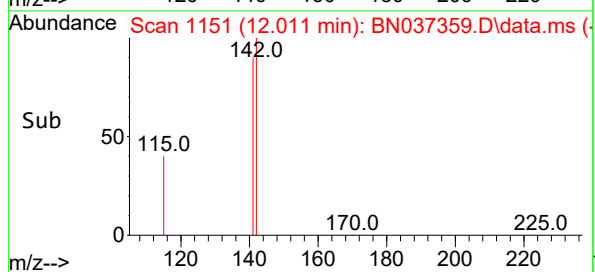
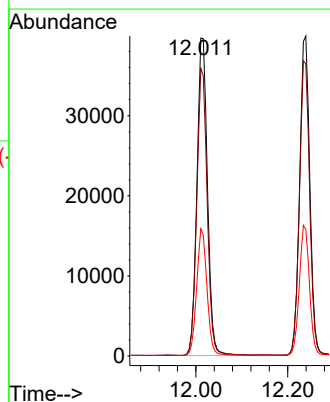
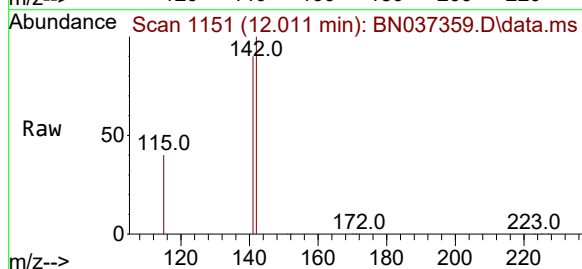
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

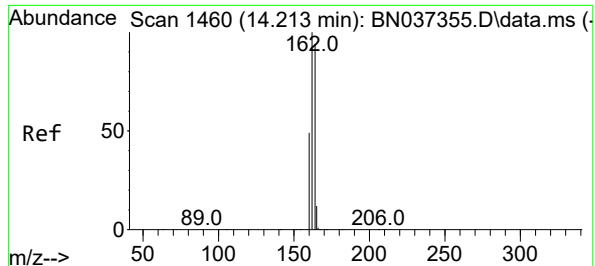
Tgt Ion:152 Resp: 54112
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.0



#12
2-Methylnaphthalene
Concen: 5.400 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:142 Resp: 63177
Ion Ratio Lower Upper
142 100
141 90.4 70.2 105.2
115 40.0 43.0 64.4#

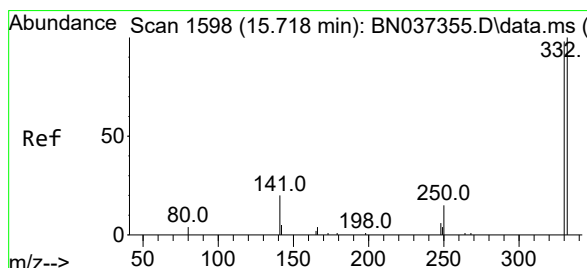
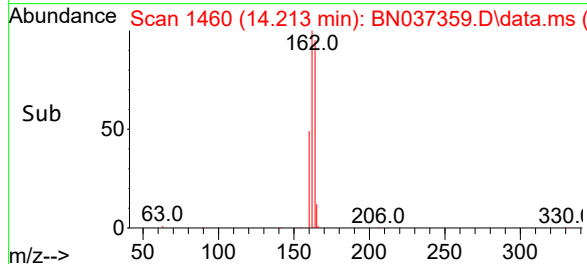
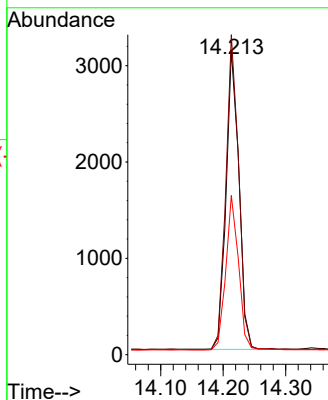
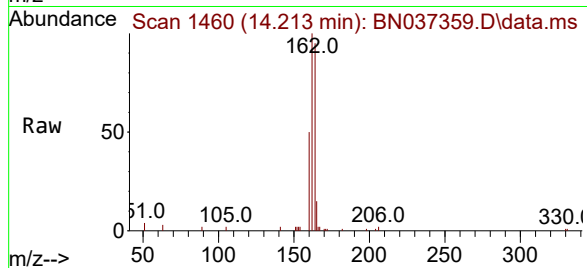




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

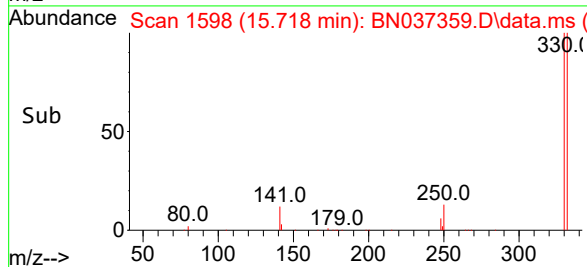
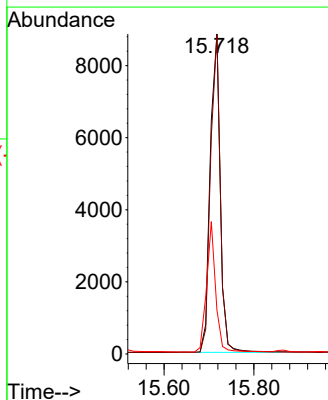
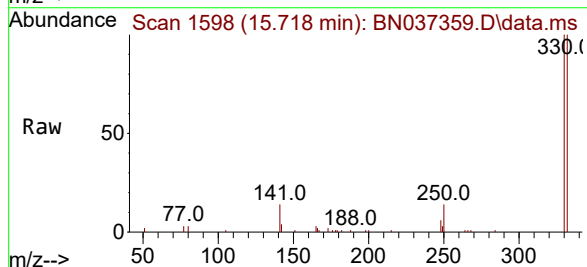
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

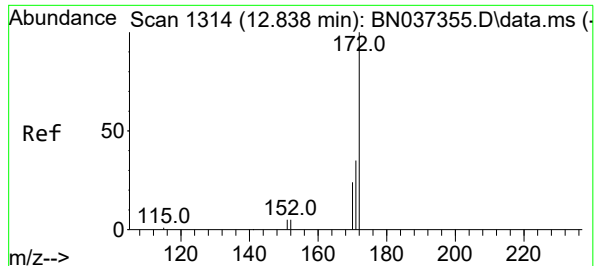
Tgt Ion:164 Resp: 4465
Ion Ratio Lower Upper
164 100
162 105.2 81.5 122.3
160 52.3 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 4.292 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:330 Resp: 13707
Ion Ratio Lower Upper
330 100
332 96.8 78.4 117.6
141 36.8 24.4 36.6#

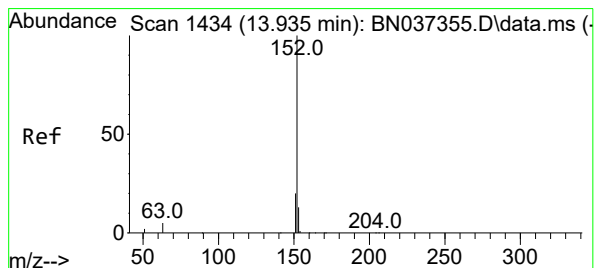
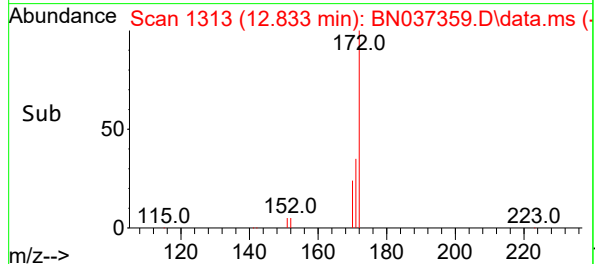
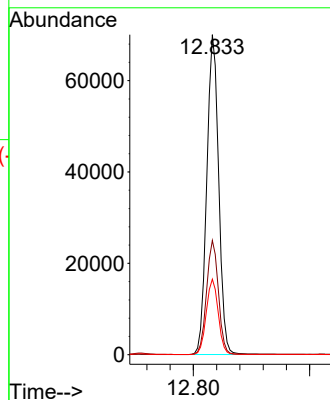
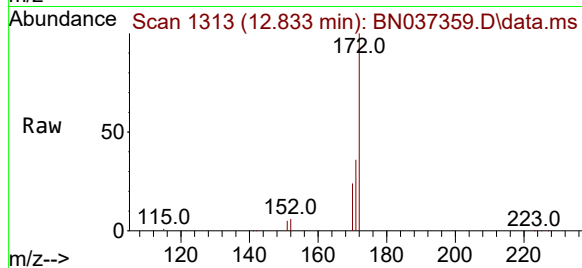




#15
2-Fluorobiphenyl
Concen: 5.067 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

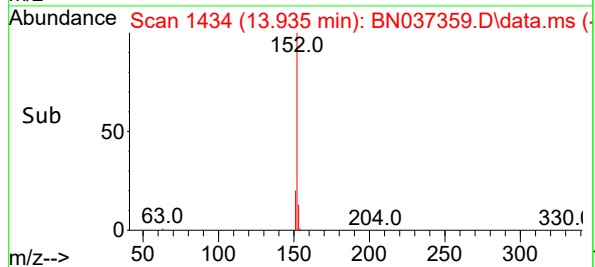
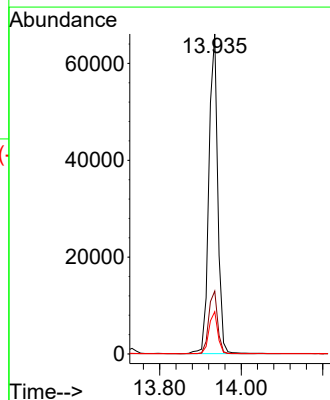
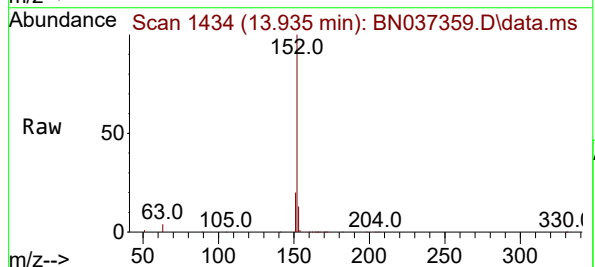
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

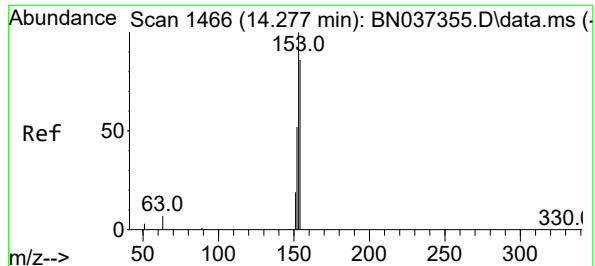
Tgt Ion:172 Resp: 99254
Ion Ratio Lower Upper
172 100
171 35.7 30.8 46.2
170 23.6 21.9 32.9



#16
Acenaphthylene
Concen: 5.319 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:152 Resp: 99681
Ion Ratio Lower Upper
152 100
151 19.8 16.6 24.8
153 13.1 10.2 15.2

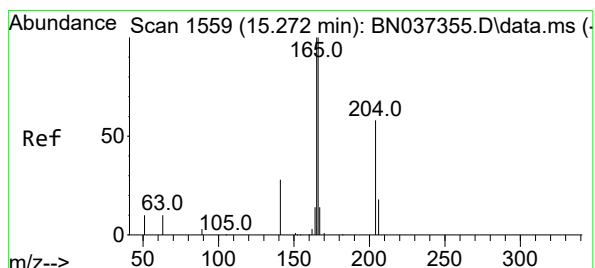
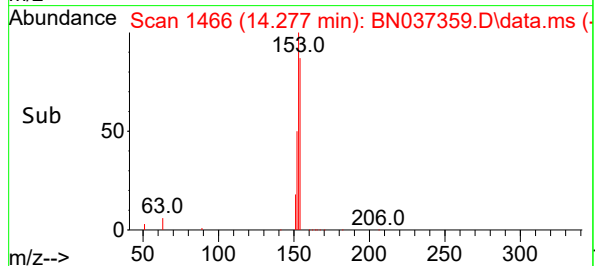
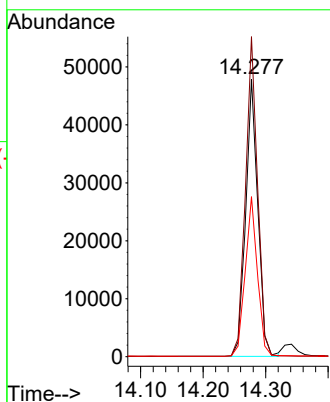
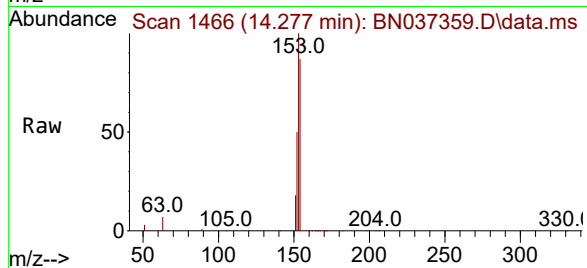




#17
Acenaphthene
Concen: 5.211 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

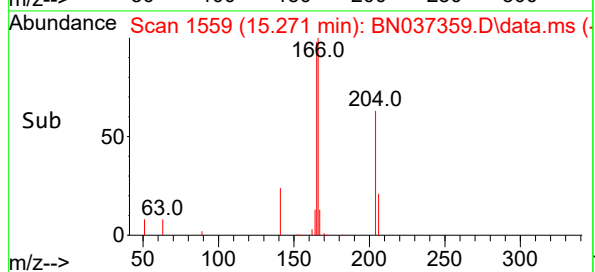
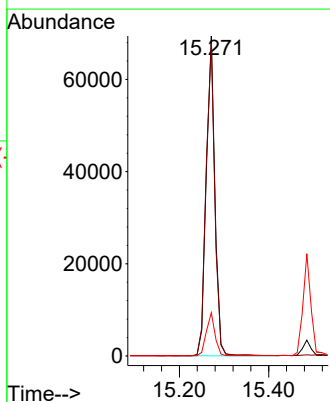
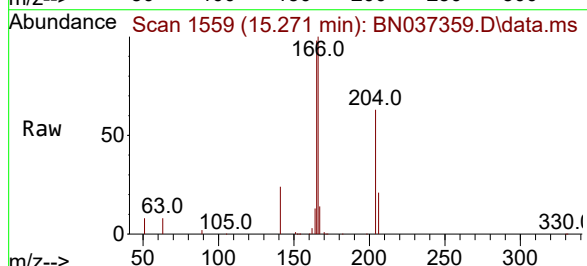
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

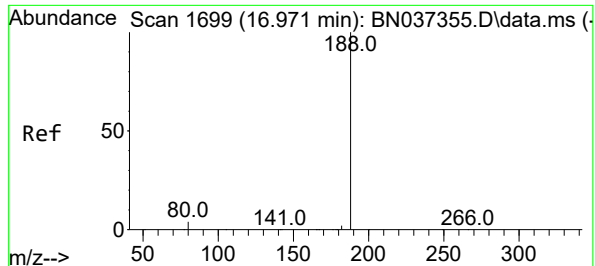
Tgt Ion:154 Resp: 64734
Ion Ratio Lower Upper
154 100
153 115.1 93.1 139.7
152 58.2 48.6 73.0



#18
Fluorene
Concen: 5.260 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:166 Resp: 92629
Ion Ratio Lower Upper
166 100
165 98.8 79.5 119.3
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

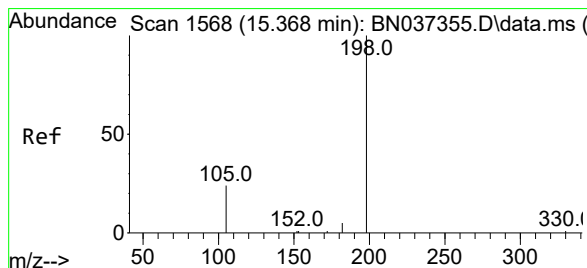
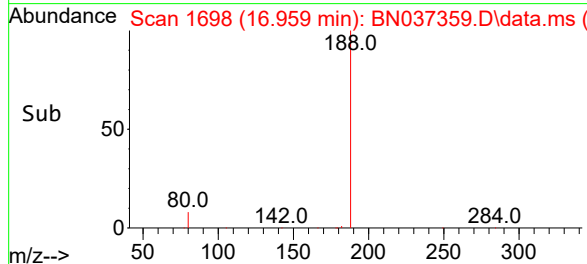
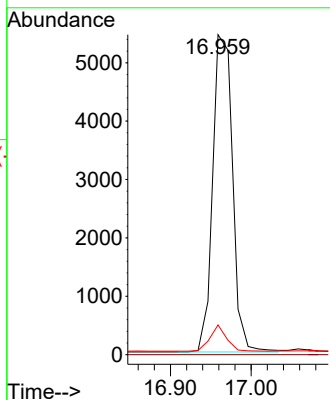
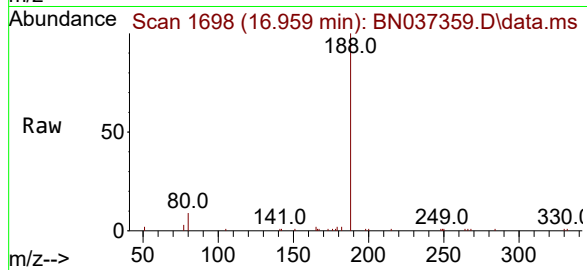
Tgt Ion:188 Resp: 9254

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 4.707 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

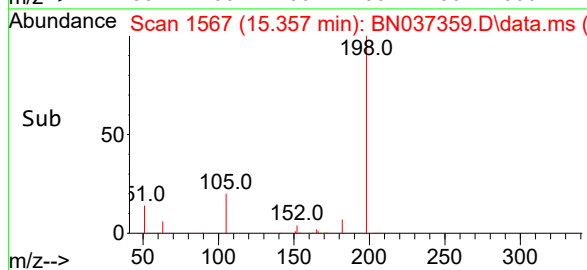
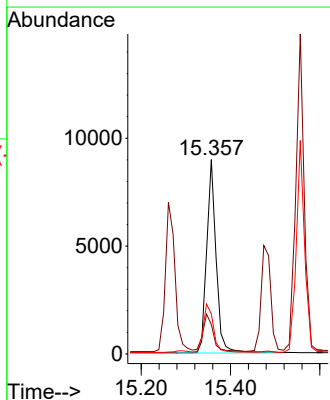
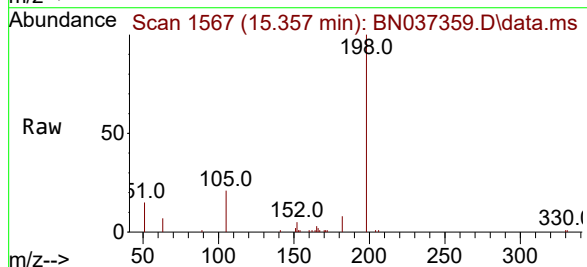
Tgt Ion:198 Resp: 13168

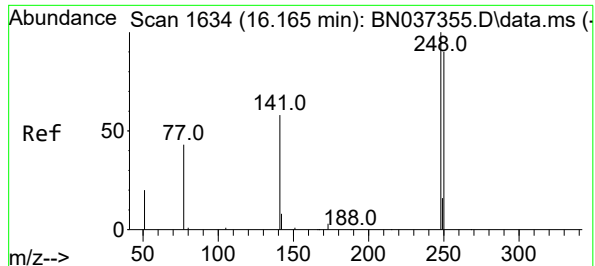
Ion Ratio Lower Upper

198 100

51 15.1 51.4 77.0#

105 20.6 45.5 68.3#

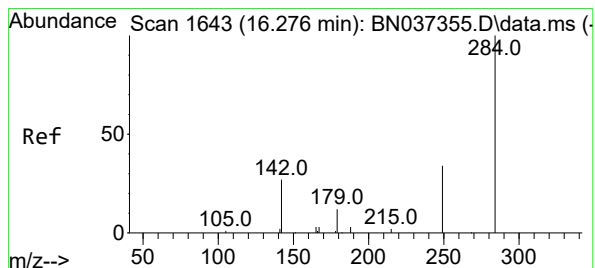
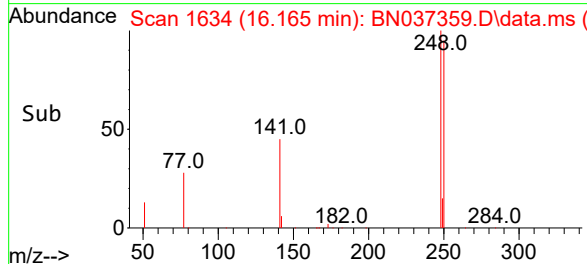
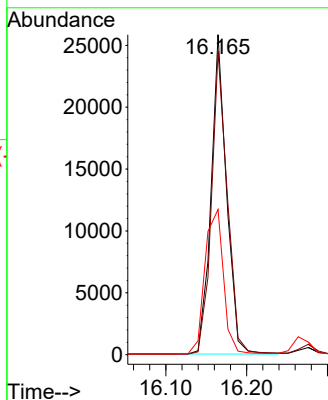
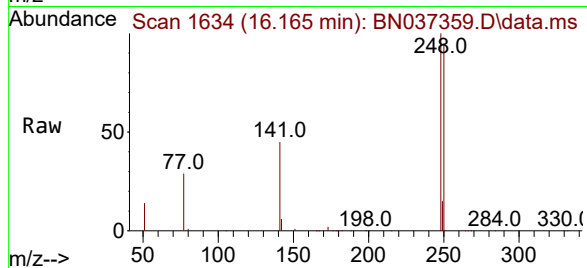




#21
4-Bromophenyl-phenylether
Concen: 4.578 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

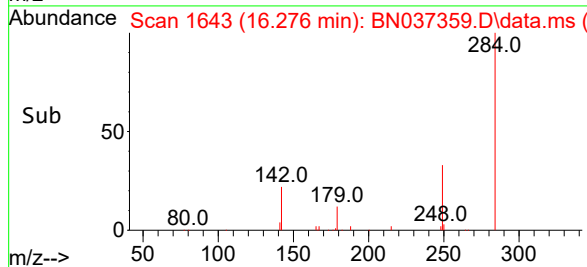
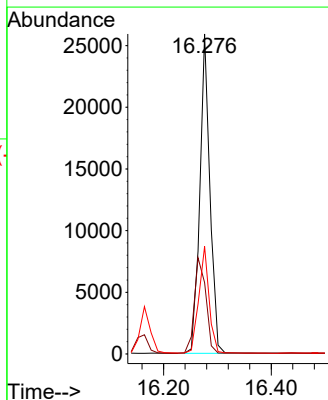
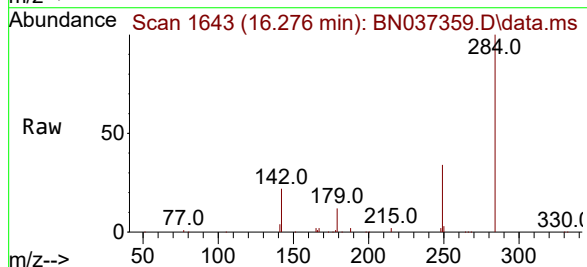
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

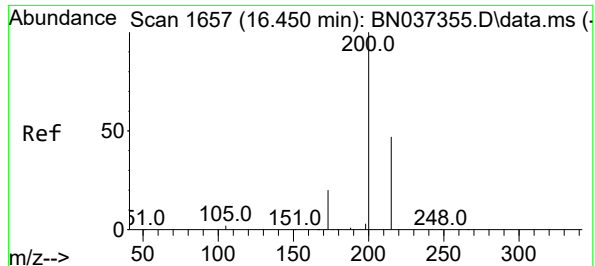
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.8	80.4	120.6
141	45.4	33.3	49.9



#22
Hexachlorobenzene
Concen: 4.288 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	34.0	28.8	43.2

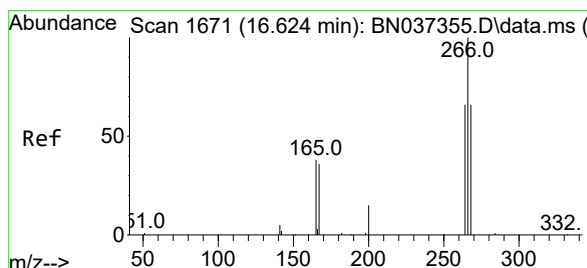
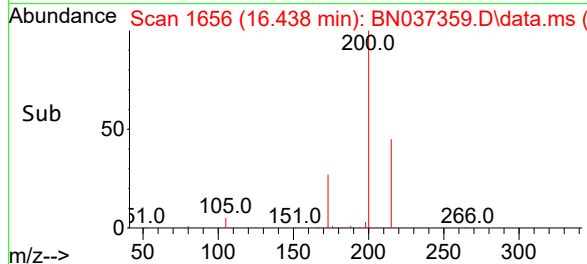
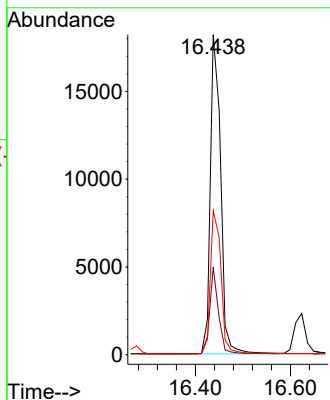
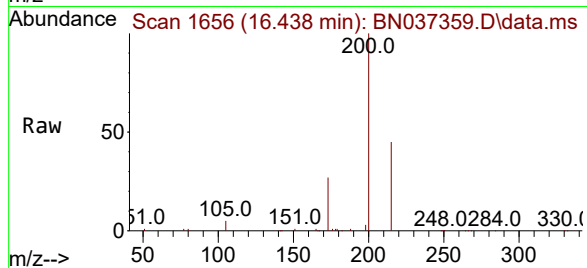




#23
Atrazine
Concen: 4.648 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

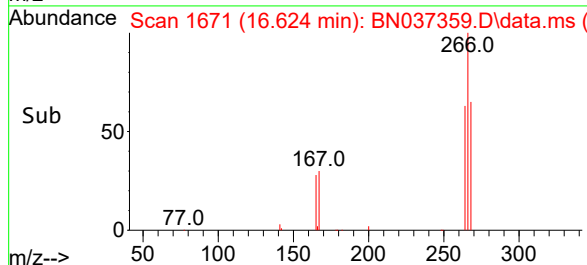
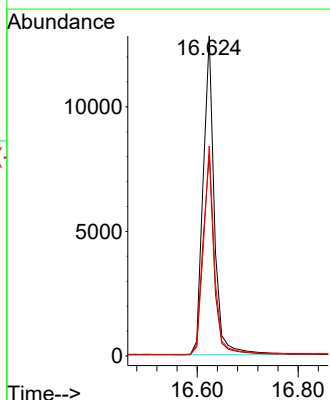
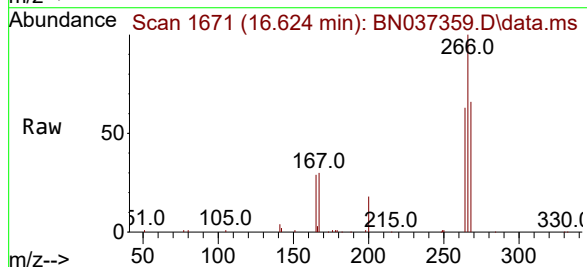
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

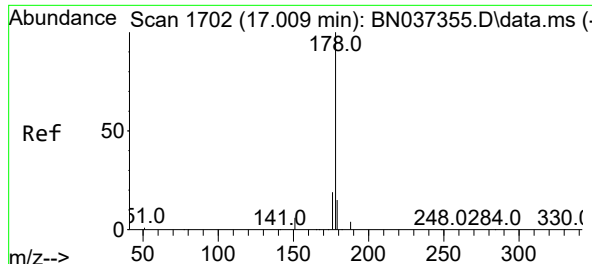
Tgt Ion:200 Resp: 27492
Ion Ratio Lower Upper
200 100
173 27.4 29.2 43.8#
215 45.1 48.8 73.2#



#24
Pentachlorophenol
Concen: 4.555 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:266 Resp: 19702
Ion Ratio Lower Upper
266 100
264 63.2 50.3 75.5
268 64.3 55.3 82.9

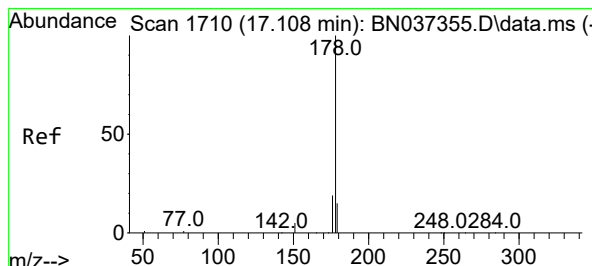
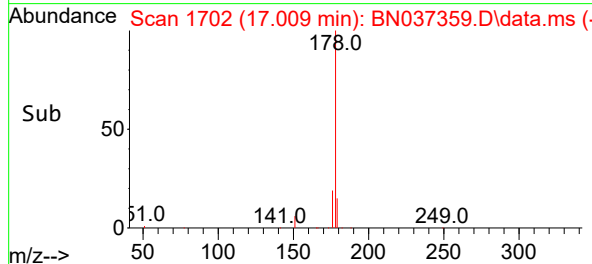
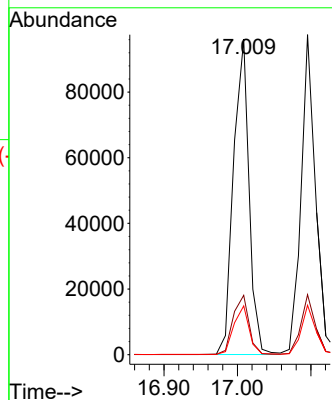
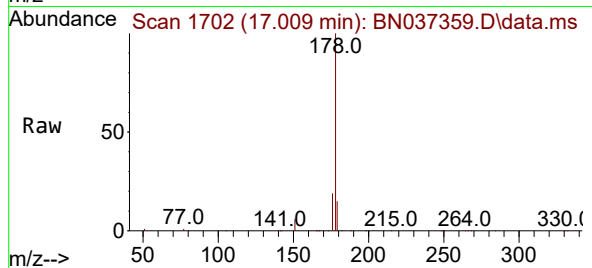




#25
Phenanthrene
Concen: 5.404 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

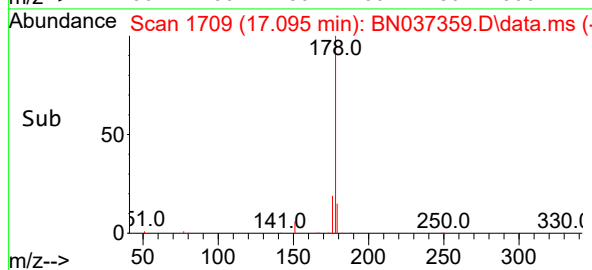
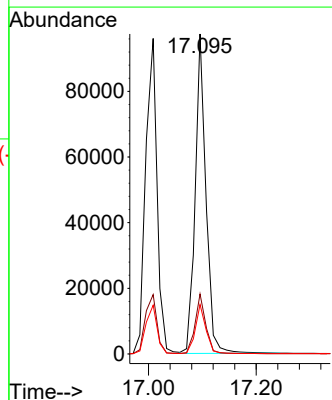
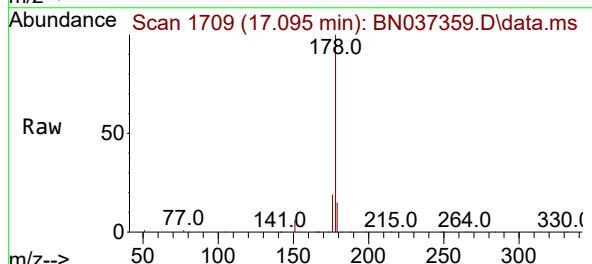
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

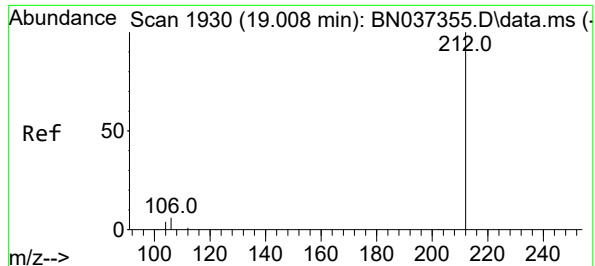
Tgt Ion:178 Resp: 141308
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.2 12.9 19.3



#26
Anthracene
Concen: 5.549 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.013 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:178 Resp: 135503
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.4 13.0 19.6





#27

Fluoranthene-d10

Concen: 4.649 ng

RT: 19.003 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

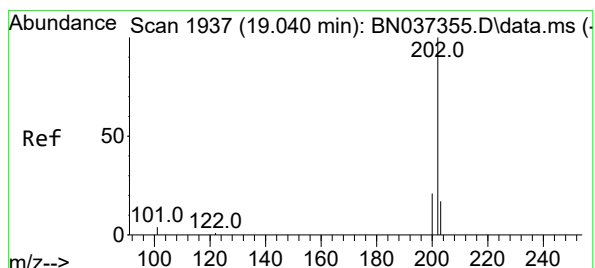
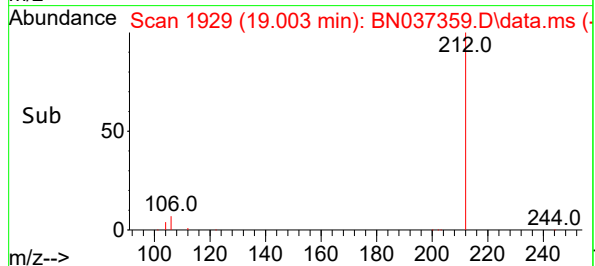
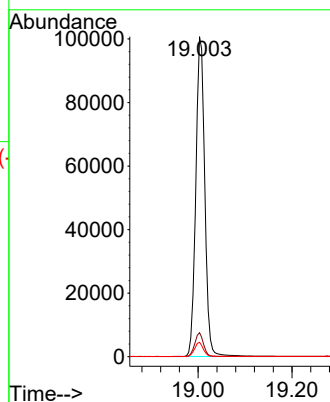
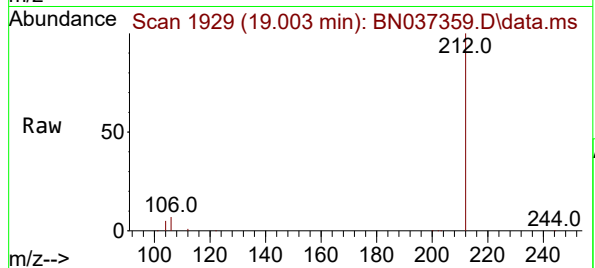
Tgt Ion:212 Resp: 133941

Ion Ratio Lower Upper

212 100

106 7.3 3.0 4.4#

104 4.3 2.0 3.0#



#28

Fluoranthene

Concen: 4.910 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

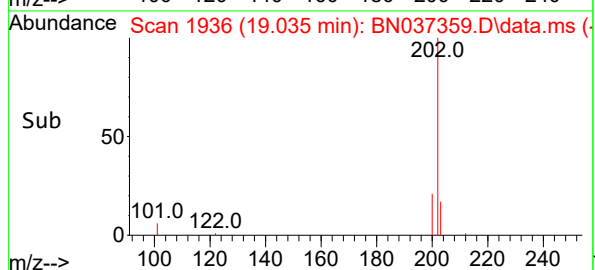
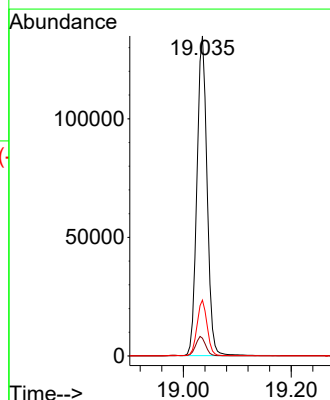
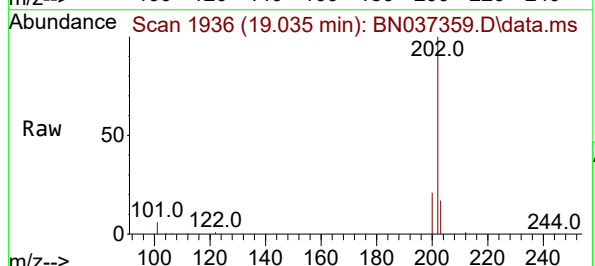
Tgt Ion:202 Resp: 175639

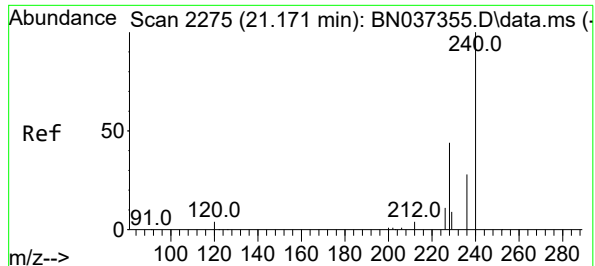
Ion Ratio Lower Upper

202 100

101 6.2 3.0 4.6#

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

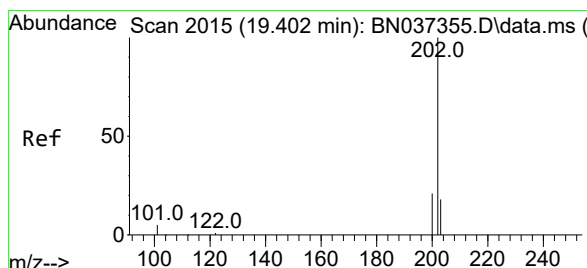
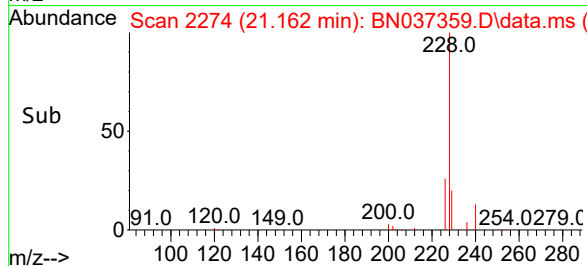
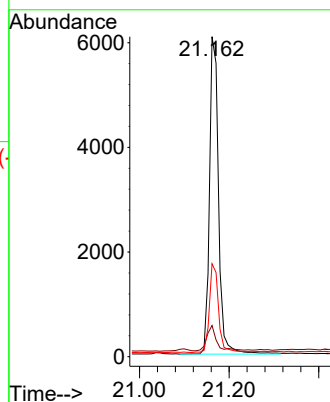
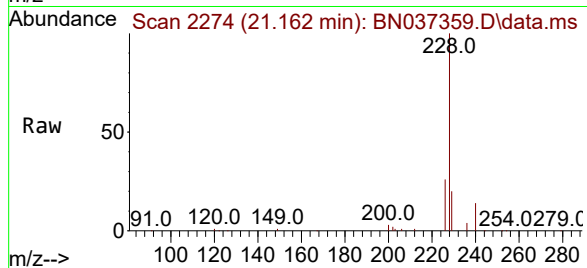
Tgt Ion:240 Resp: 8543

Ion Ratio Lower Upper

240 100

120 9.8 7.5 11.3

236 29.1 24.9 37.3



#30

Pyrene

Concen: 5.364 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

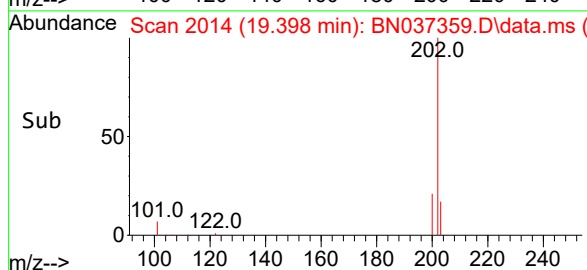
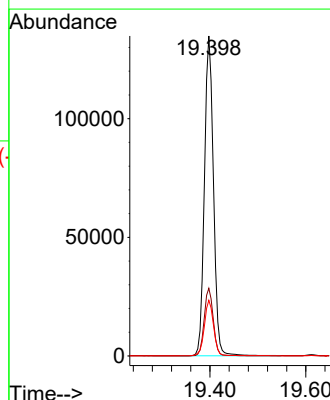
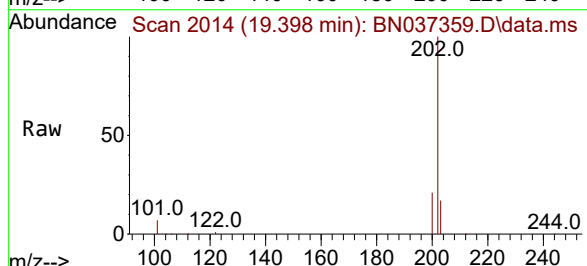
Tgt Ion:202 Resp: 175487

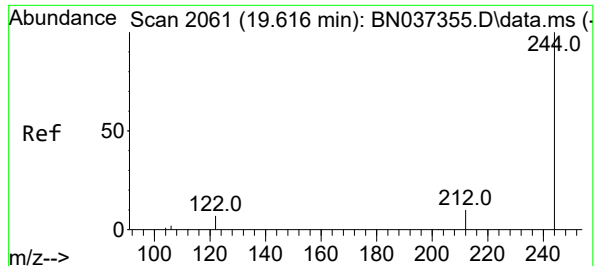
Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

203 17.8 14.5 21.7

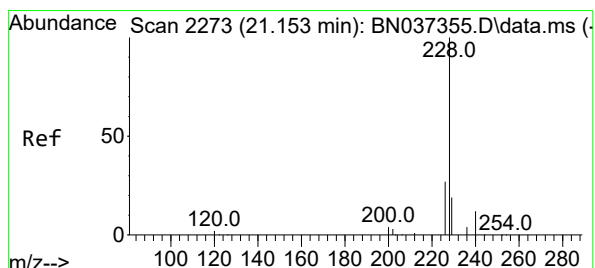
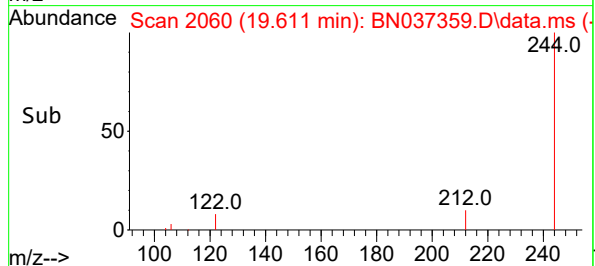
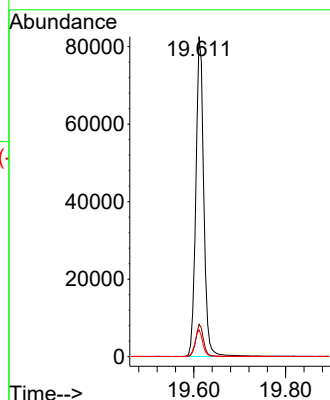
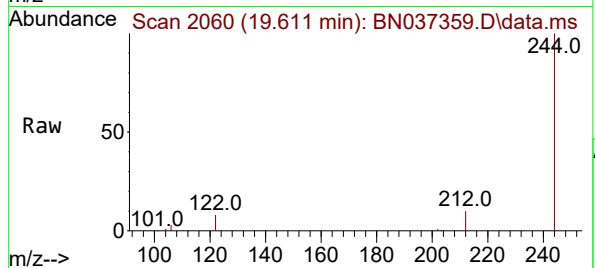




#31
Terphenyl-d14
Concen: 5.042 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

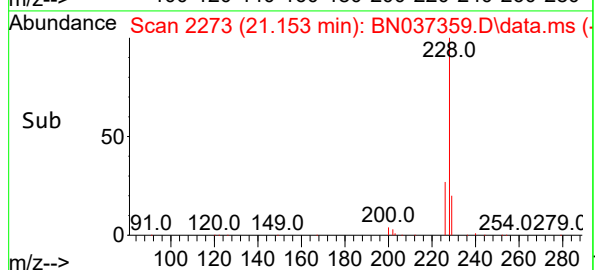
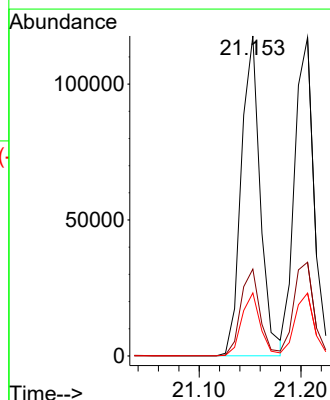
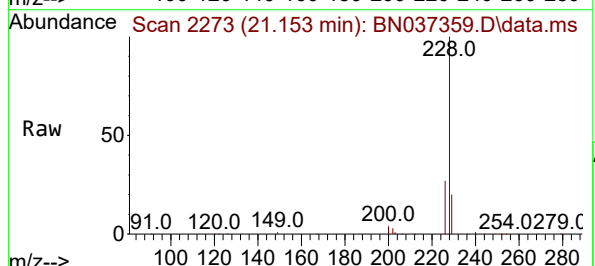
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

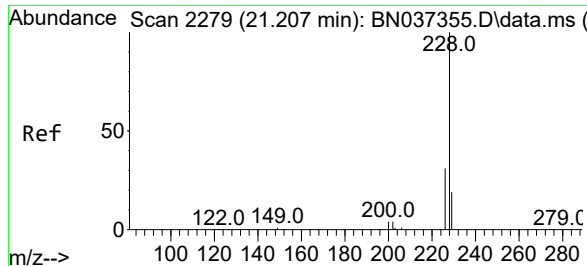
Tgt Ion:244 Resp: 98354
Ion Ratio Lower Upper
244 100
212 10.2 11.1 16.7#
122 8.4 7.2 10.8



#32
Benzo(a)anthracene
Concen: 5.534 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:228 Resp: 152551
Ion Ratio Lower Upper
228 100
226 27.1 23.0 34.4
229 19.7 17.4 26.0





#33

Chrysene

Concen: 4.566 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

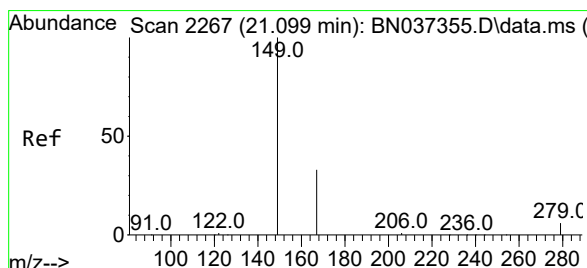
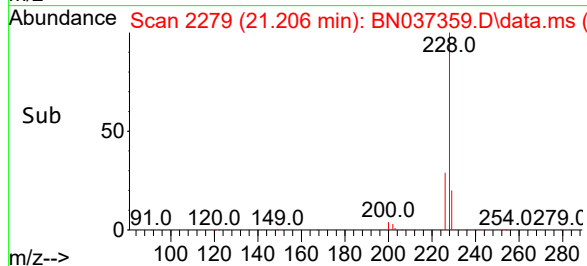
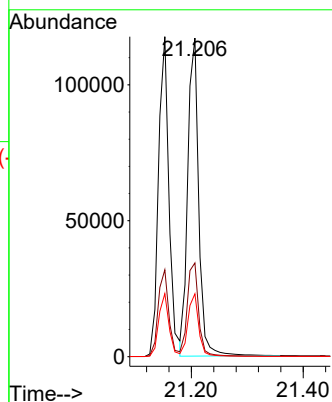
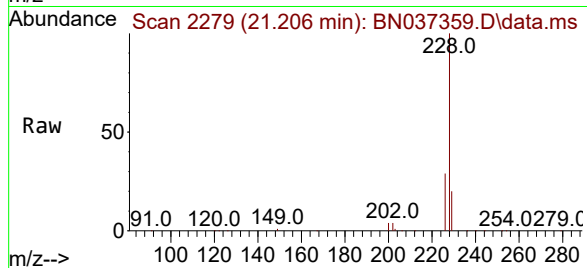
Tgt Ion:228 Resp: 159633

Ion Ratio Lower Upper

228 100

226 29.5 25.4 38.2

229 19.7 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.235 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

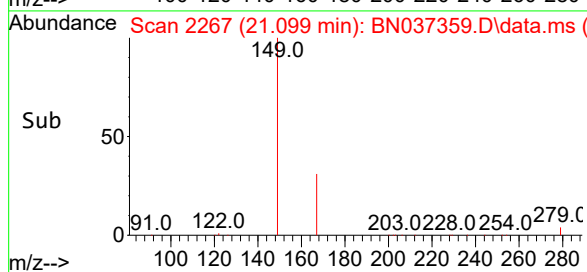
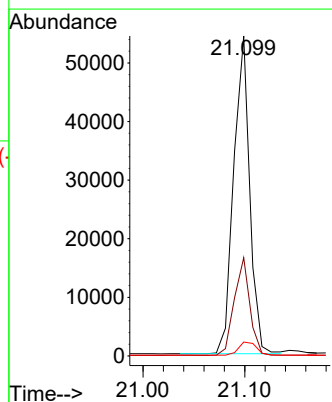
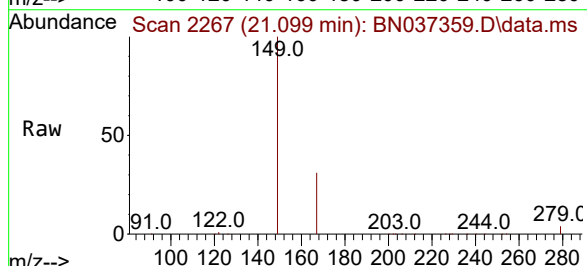
Tgt Ion:149 Resp: 59151

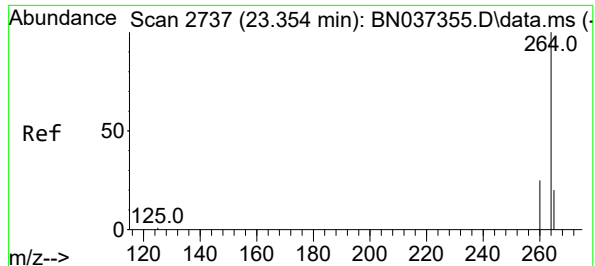
Ion Ratio Lower Upper

149 100

167 30.2 24.6 37.0

279 4.7 6.5 9.7#

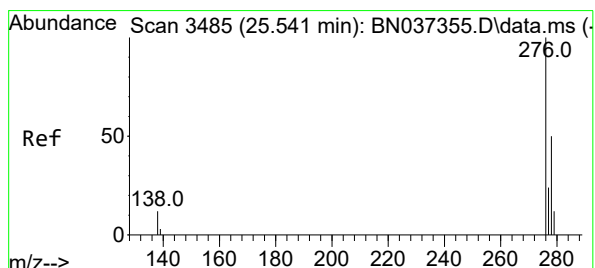
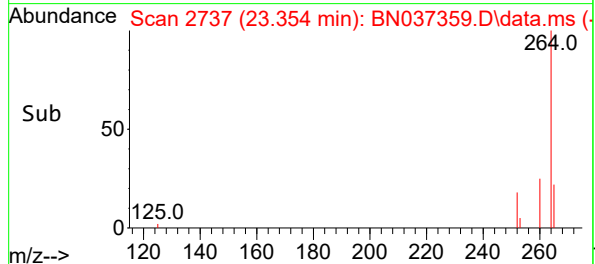
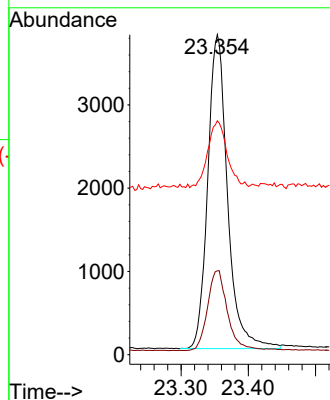
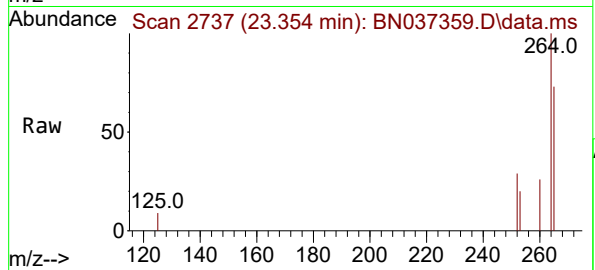




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

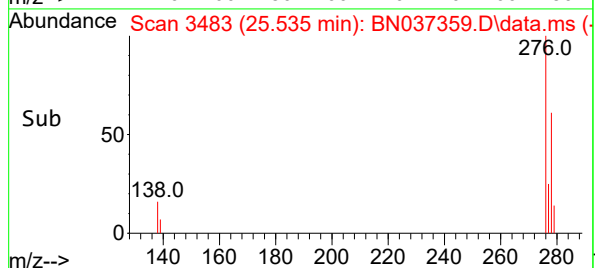
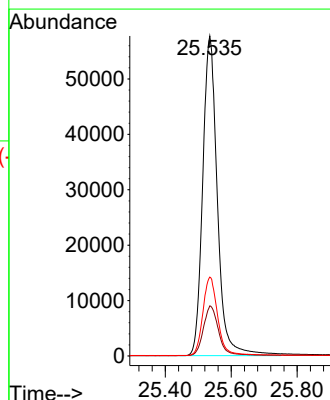
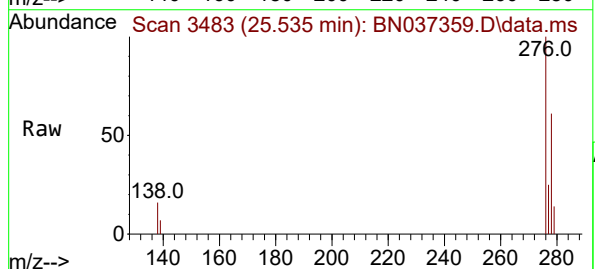
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

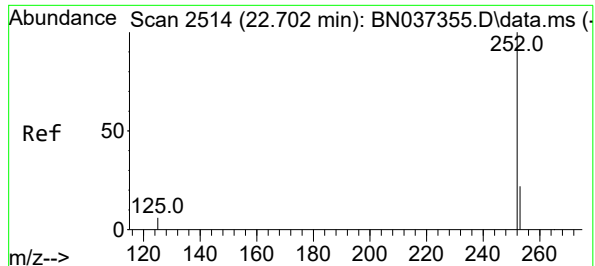
Tgt Ion:264 Resp: 7704
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.2
265 73.1 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 5.473 ng
RT: 25.535 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:276 Resp: 178739
Ion Ratio Lower Upper
276 100
138 16.1 2.2 3.2#
277 24.9 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 5.595 ng

RT: 22.699 min Scan# 2513

Delta R.T. -0.003 min

Lab File: BN037359.D

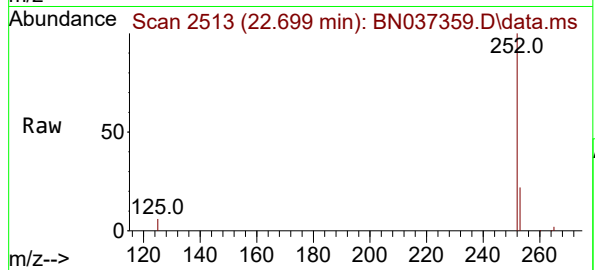
Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



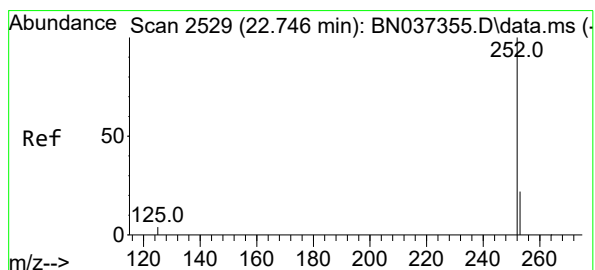
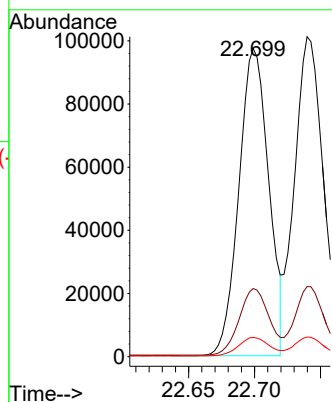
Tgt Ion:252 Resp: 152855

Ion Ratio Lower Upper

252 100

253 22.1 26.6 40.0#

125 6.3 6.1 9.1



#38

Benzo(k)fluoranthene

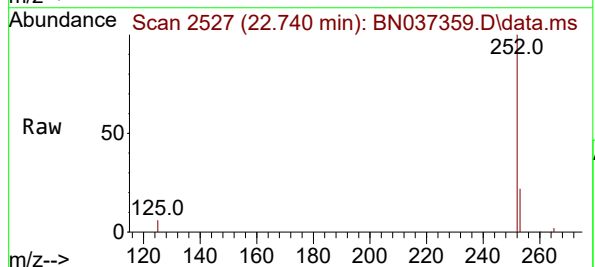
Concen: 5.473 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27



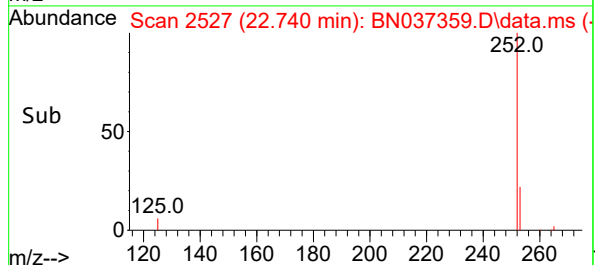
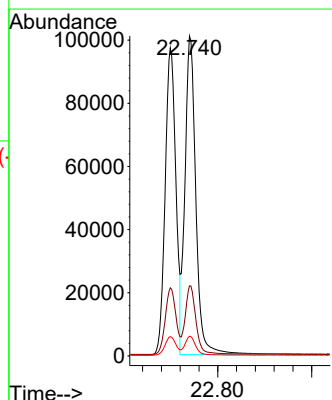
Tgt Ion:252 Resp: 162397

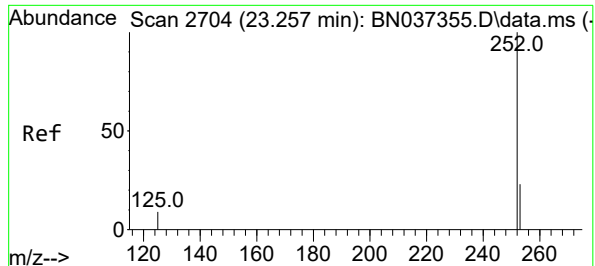
Ion Ratio Lower Upper

252 100

253 21.9 26.7 40.1#

125 6.2 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 5.375 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

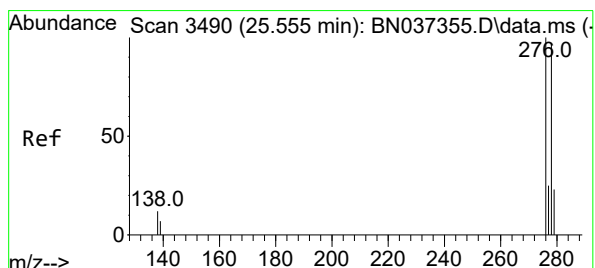
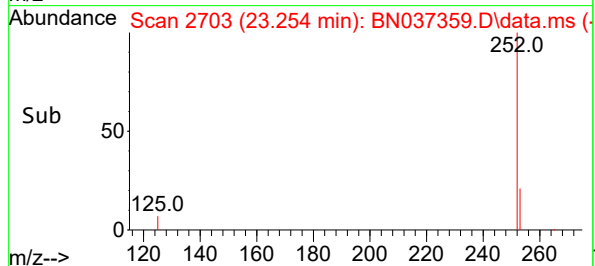
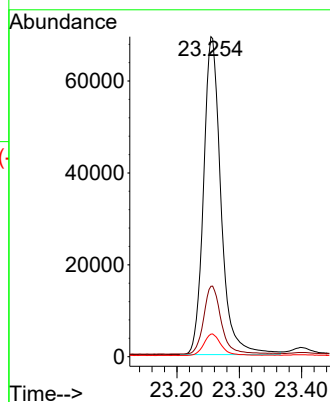
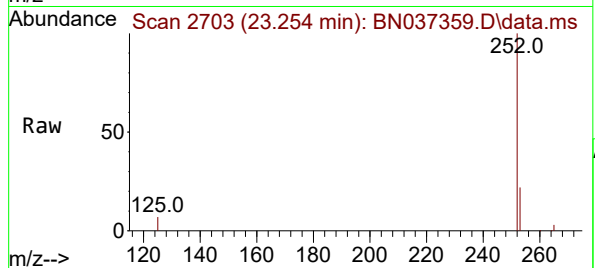
Tgt Ion:252 Resp: 134379

Ion Ratio Lower Upper

252 100

253 22.0 31.6 47.4#

125 7.0 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.474 ng

RT: 25.549 min Scan# 3488

Delta R.T. -0.006 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

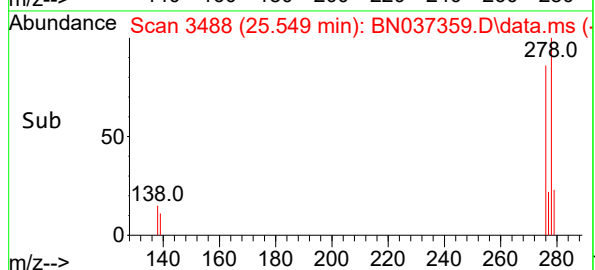
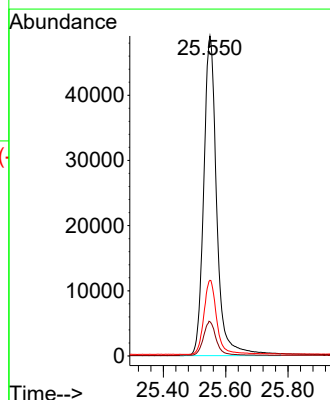
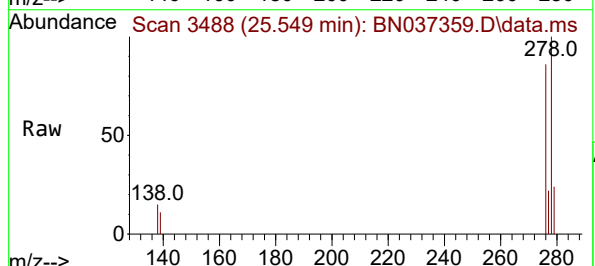
Tgt Ion:278 Resp: 142364

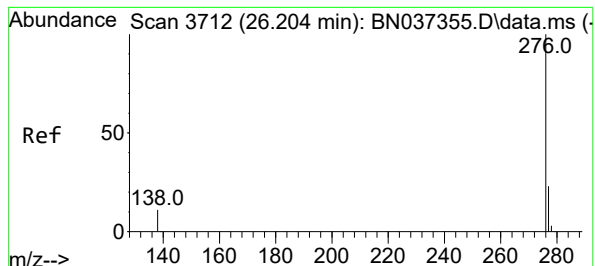
Ion Ratio Lower Upper

278 100

139 10.7 10.2 15.4

279 23.6 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 5.131 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037359.D

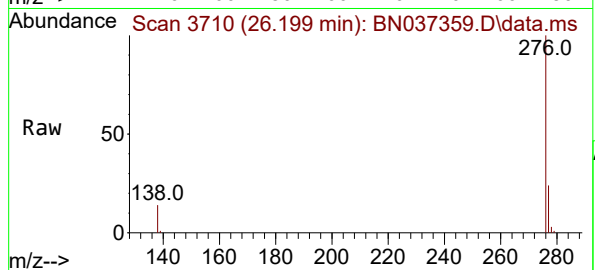
Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



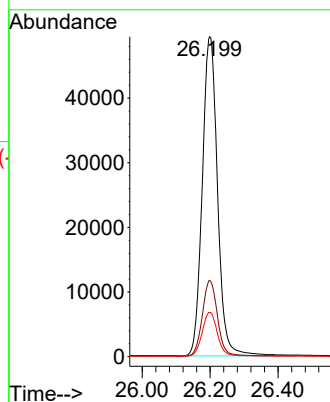
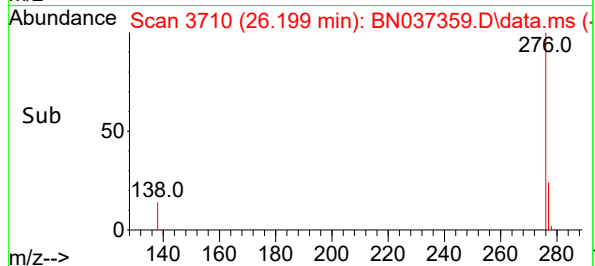
Tgt Ion:276 Resp: 153920

Ion Ratio Lower Upper

276 100

277 23.8 22.7 34.1

138 13.8 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037360.D
 Acq On : 20 Jun 2025 21:39
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

Quant Time: Jun 20 23:48:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

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

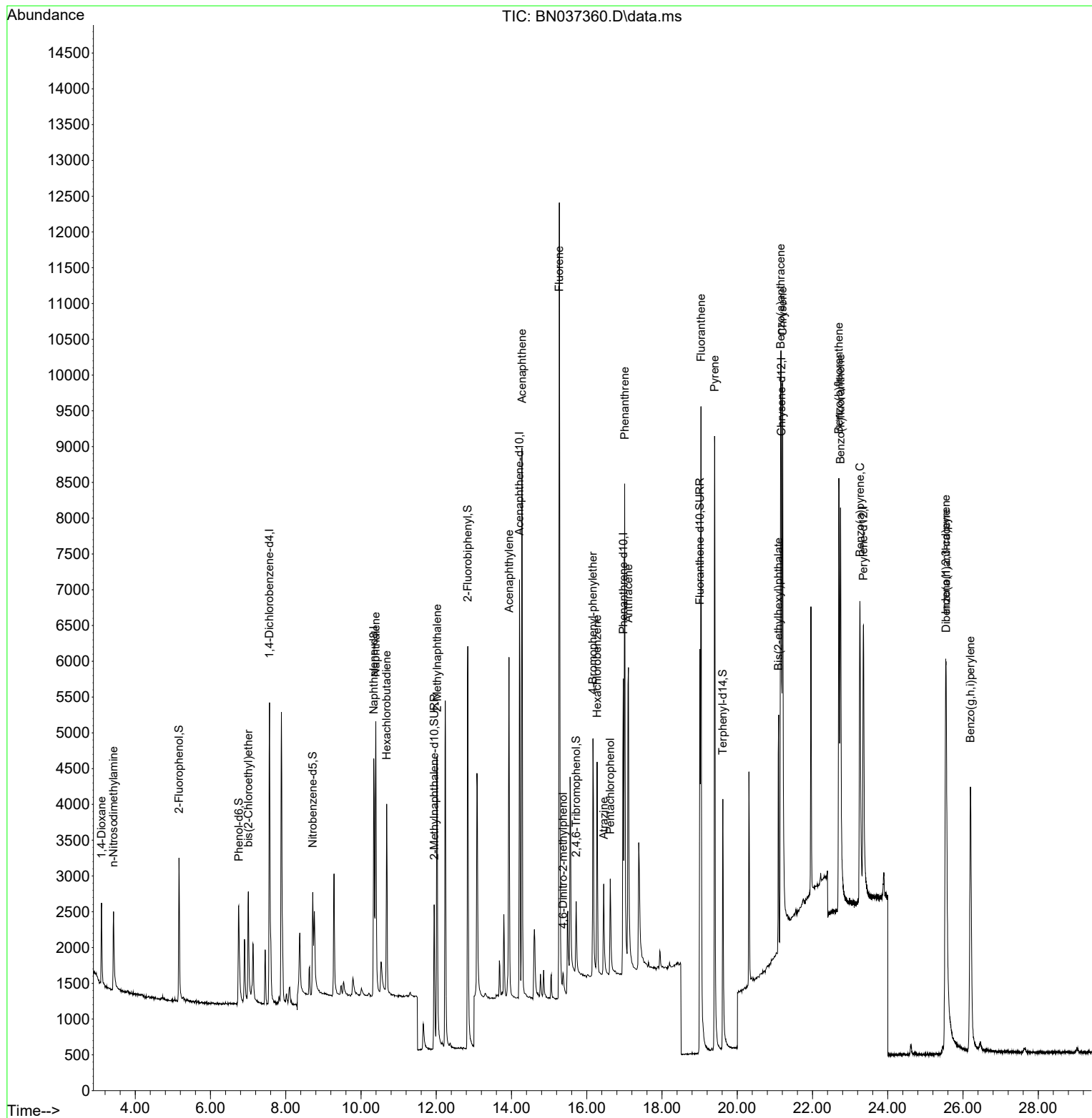
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2309	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	5064	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	3457	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	7065	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	5560	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	5756	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1841	0.399	ng	0.00
5) Phenol-d6	6.752	99	1797	0.378	ng	0.00
8) Nitrobenzene-d5	8.717	82	1658	0.405	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	3394	0.414	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	756	0.373	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	6049	0.398	ng	0.00
27) Fluoranthene-d10	19.008	212	7940	0.392	ng	0.00
31) Terphenyl-d14	19.616	244	5266	0.416	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.104	88	942	0.401	ng	91
3) n-Nitrosodimethylamine	3.422	42	845	0.393	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1718	0.407	ng	93
9) Naphthalene	10.394	128	5338	0.399	ng	# 89
10) Hexachlorobutadiene	10.682	225	2157	0.409	ng	# 99
12) 2-Methylnaphthalene	12.021	142	3620	0.388	ng	# 91
16) Acenaphthylene	13.935	152	5463	0.376	ng	98
17) Acenaphthene	14.277	154	3720	0.389	ng	99
18) Fluorene	15.272	166	5193	0.386	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	491	0.289	ng	92
21) 4-Bromophenyl-phenylether	16.165	248	1905	0.379	ng	# 84
22) Hexachlorobenzene	16.276	284	2222	0.406	ng	98
23) Atrazine	16.450	200	1453	0.362	ng	# 84
24) Pentachlorophenol	16.624	266	881	0.323	ng	97
25) Phenanthrene	17.009	178	7743	0.378	ng	99
26) Anthracene	17.108	178	6739	0.357	ng	99
28) Fluoranthene	19.036	202	9535	0.369	ng	# 99
30) Pyrene	19.398	202	9570	0.424	ng	100
32) Benzo(a)anthracene	21.153	228	6805	0.372	ng	99
33) Chrysene	21.207	228	9119	0.412	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	3022	0.403	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.541	276	9492	0.368	ng	# 92
37) Benzo(b)fluoranthene	22.702	252	8083m	0.382	ng	
38) Benzo(k)fluoranthene	22.746	252	9472	0.412	ng	95
39) Benzo(a)pyrene	23.260	252	7258	0.382	ng	# 89
40) Dibenzo(a,h)anthracene	25.553	278	7116	0.367	ng	# 87
41) Benzo(g,h,i)perylene	26.199	276	8707	0.378	ng	95

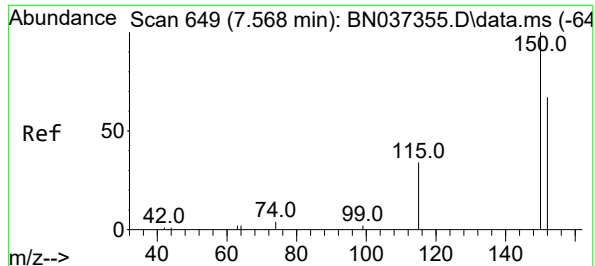
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

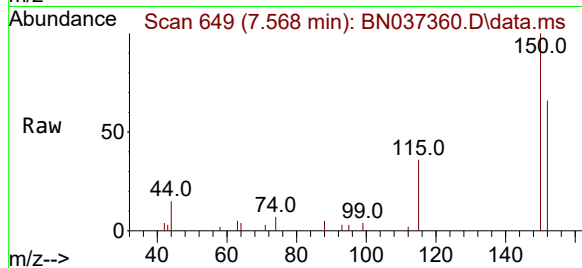
Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration





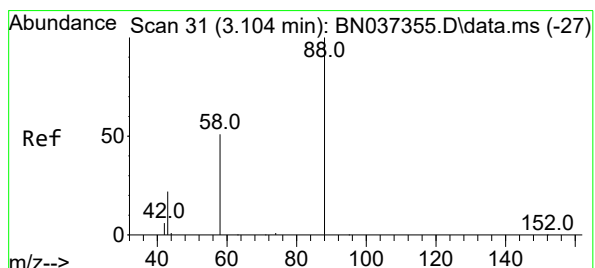
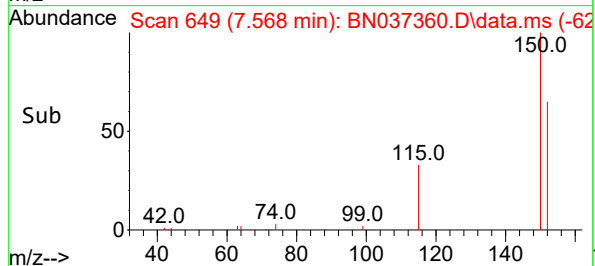
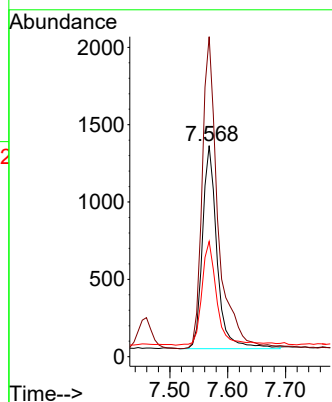
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125



Tgt Ion: 152 Resp: 2309

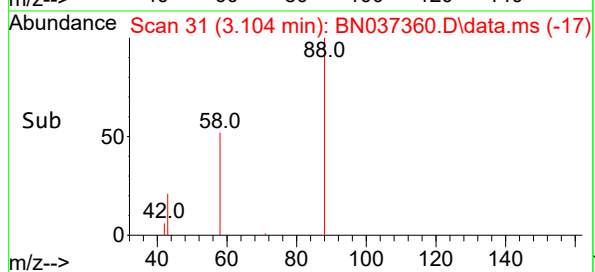
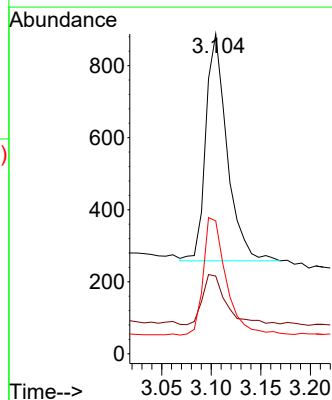
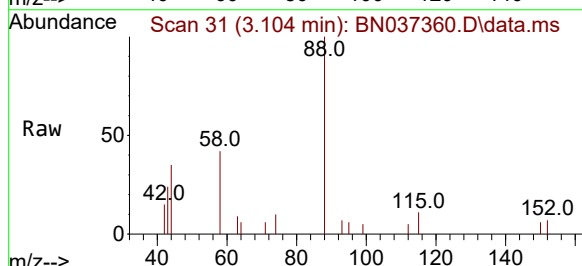
Ion	Ratio	Lower	Upper
152	100		
150	151.6	112.7	169.1
115	54.6	45.9	68.9

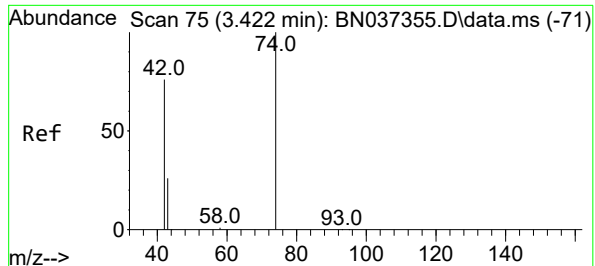


#2
1,4-Dioxane
Concen: 0.401 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 88 Resp: 942

Ion	Ratio	Lower	Upper
88	100		
43	24.5	21.0	31.6
58	55.4	38.0	57.0

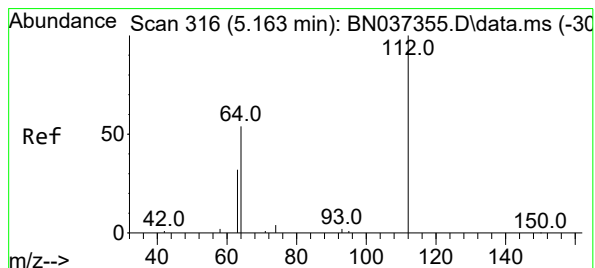
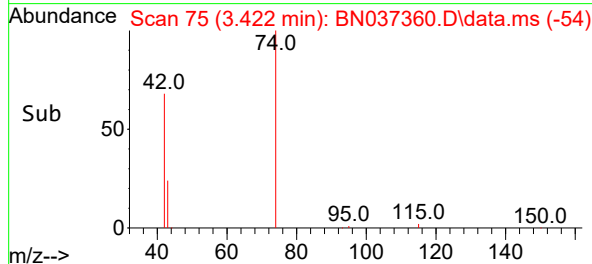
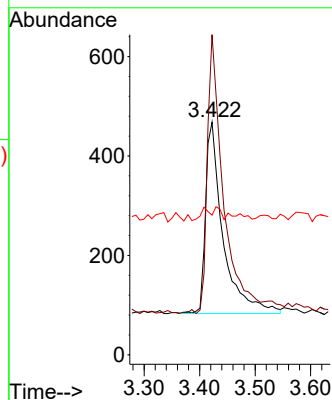
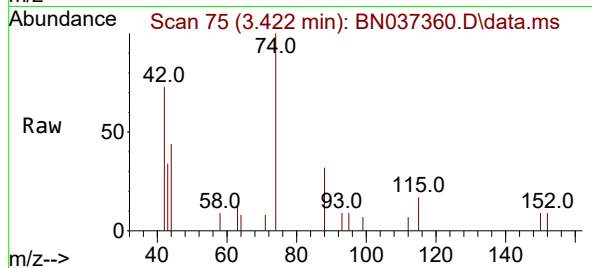




#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

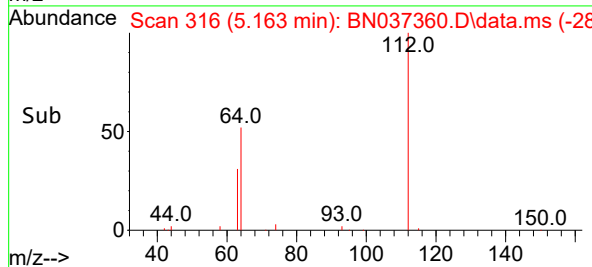
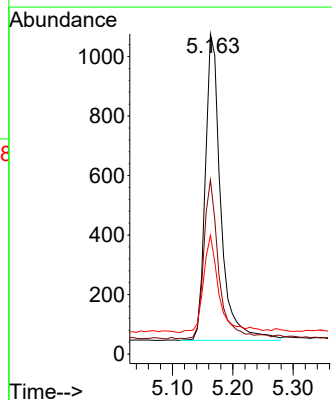
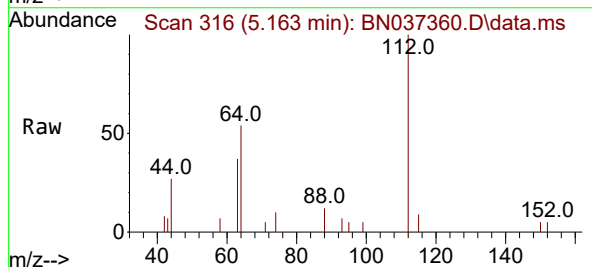
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

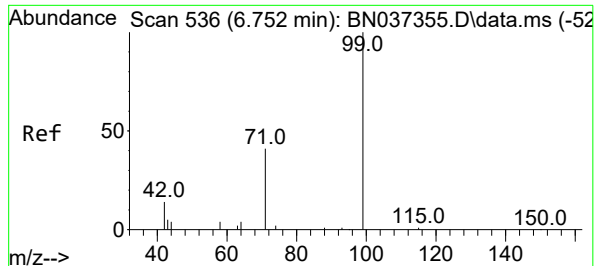
Tgt Ion: 42 Resp: 845
Ion Ratio Lower Upper
42 100
74 137.3 84.3 126.5#
44 2.5 5.0 7.4#



#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 112 Resp: 1841
Ion Ratio Lower Upper
112 100
64 50.3 38.7 58.1
63 31.9 26.4 39.6

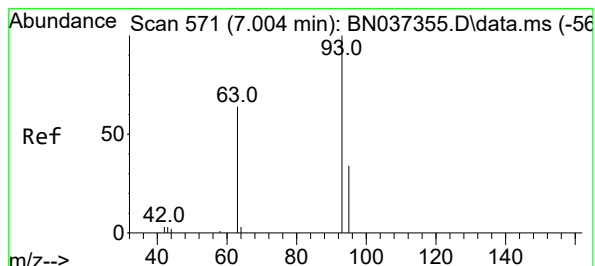
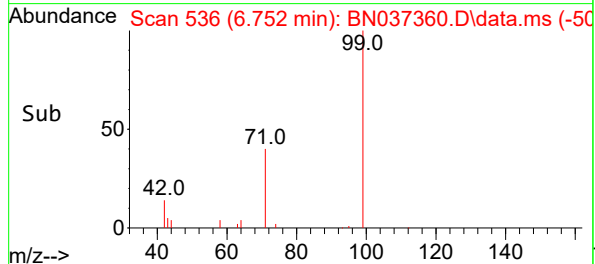
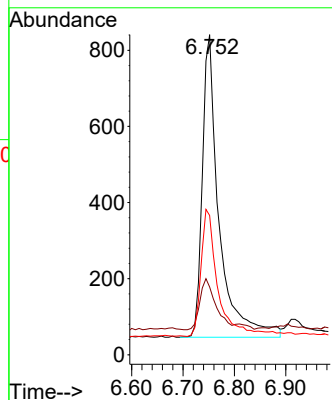
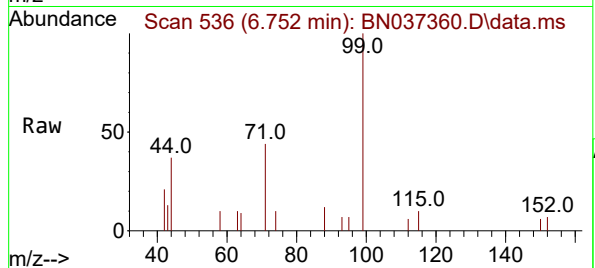




#5
Phenol-d6
Concen: 0.378 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

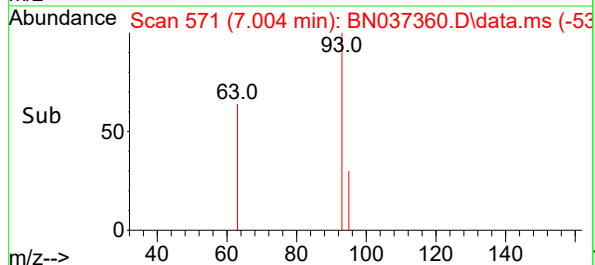
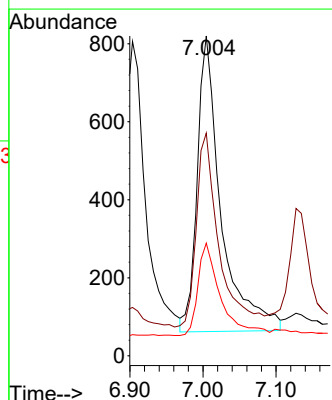
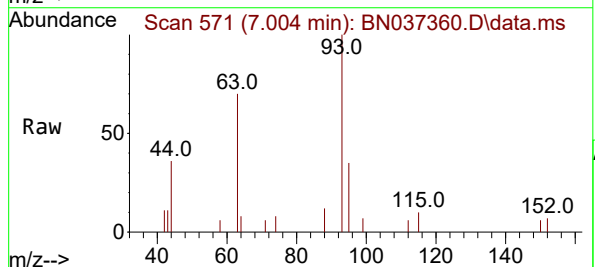
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

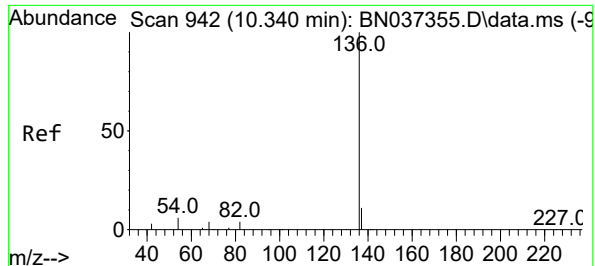
Tgt Ion: 99 Resp: 1797
Ion Ratio Lower Upper
99 100
42 15.9 19.8 29.8#
71 43.3 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 93 Resp: 1718
Ion Ratio Lower Upper
93 100
63 61.8 53.2 79.8
95 29.5 27.3 40.9

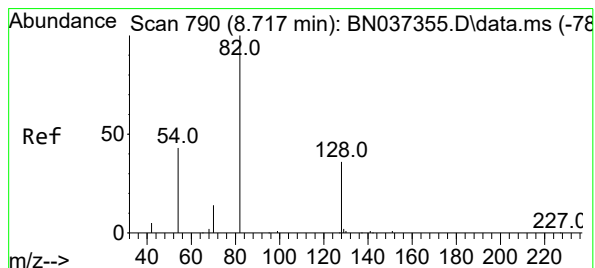
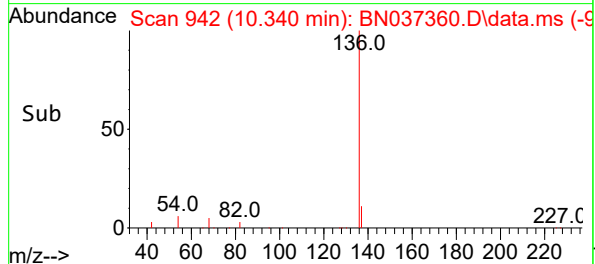
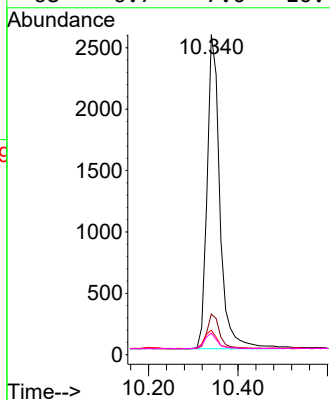
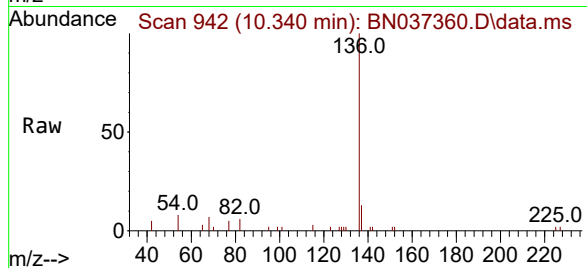




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

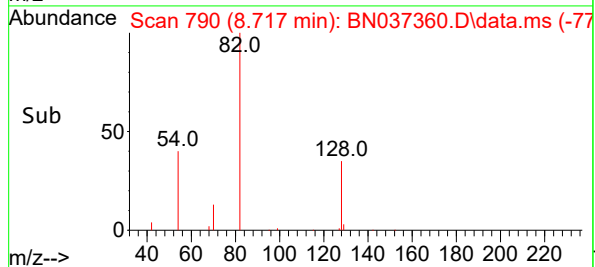
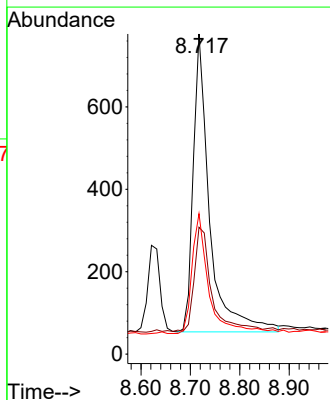
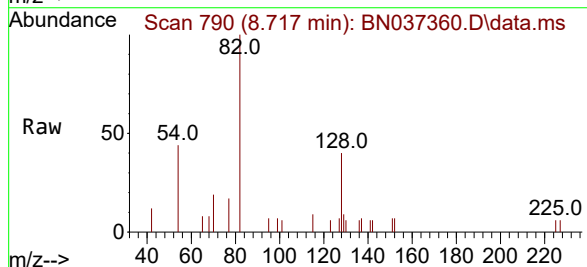
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

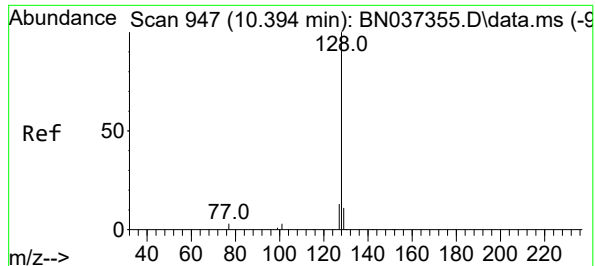
Tgt Ion:	136	Resp:	5064
Ion	Ratio	Lower	Upper
136	100		
137	12.7	12.2	18.2
54	7.6	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:	82	Resp:	1658
Ion	Ratio	Lower	Upper
82	100		
128	39.6	42.5	63.7#
54	43.9	43.2	64.8

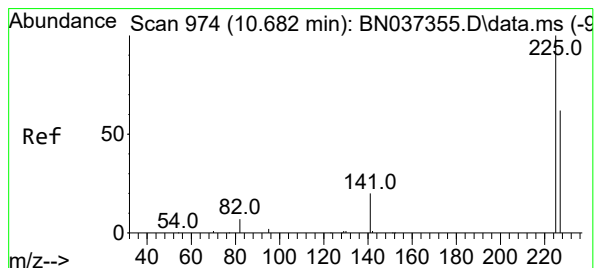
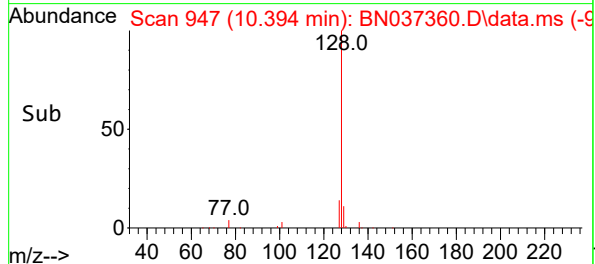
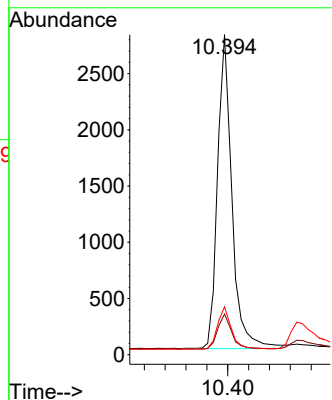
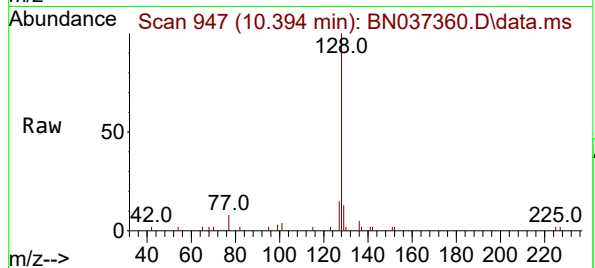




#9
Naphthalene
Concen: 0.399 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

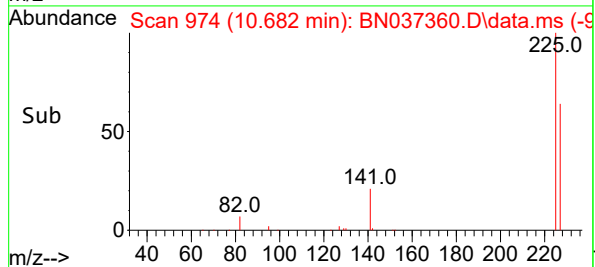
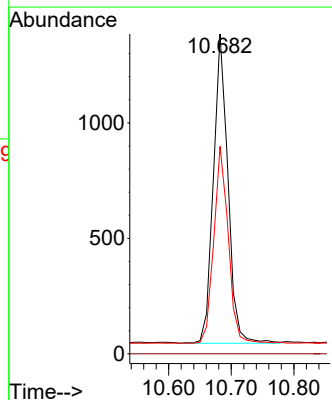
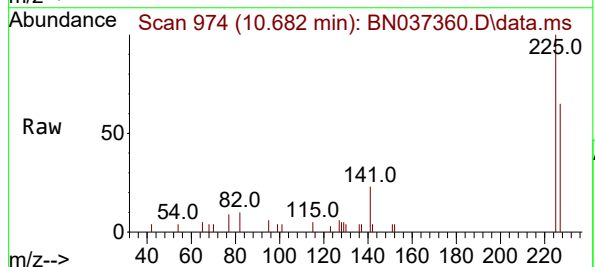
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

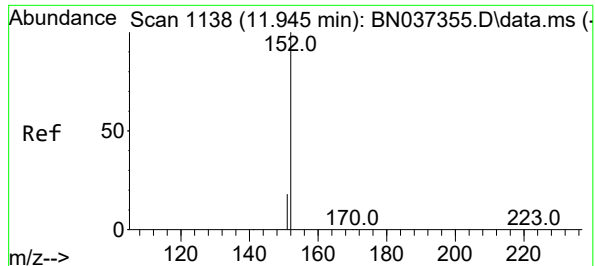
Tgt Ion:128 Resp: 5338
Ion Ratio Lower Upper
128 100
129 12.7 14.0 21.0#
127 15.0 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:225 Resp: 2157
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 50.3 75.5

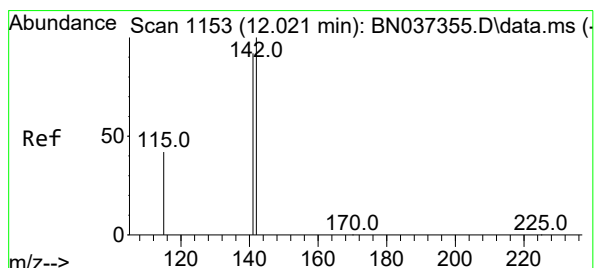
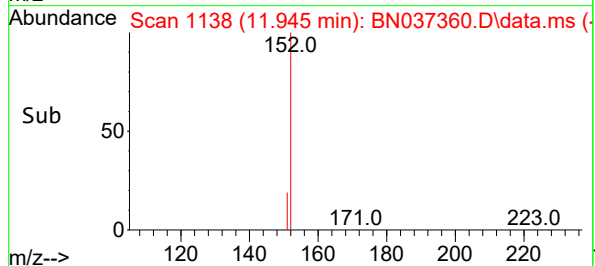
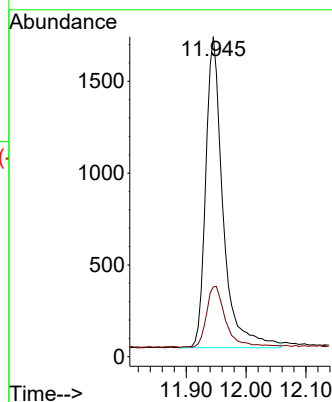
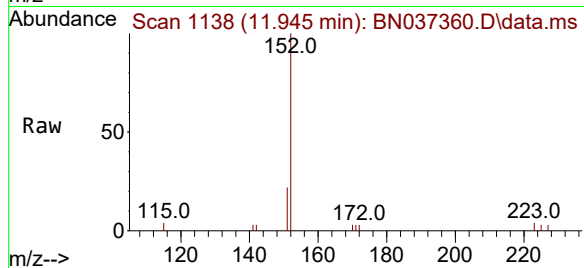




#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

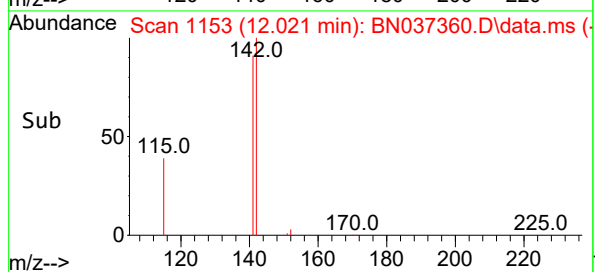
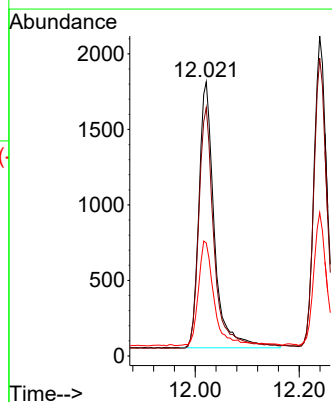
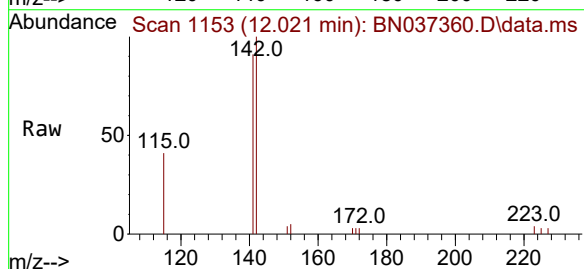
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

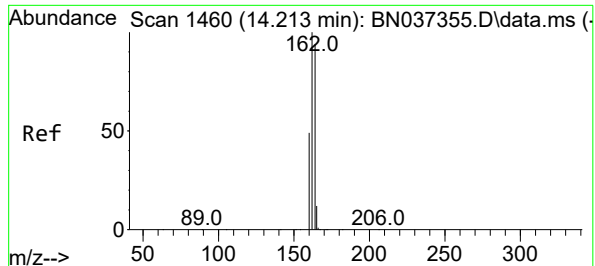
Tgt Ion:152 Resp: 3394
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:142 Resp: 3620
Ion Ratio Lower Upper
142 100
141 90.6 70.2 105.2
115 41.2 43.0 64.4#

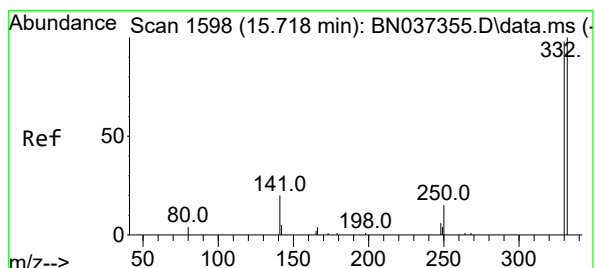
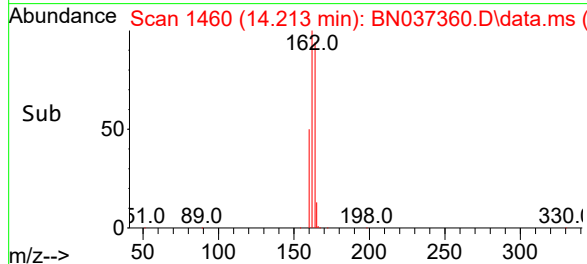
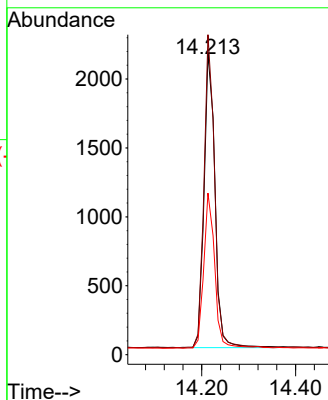
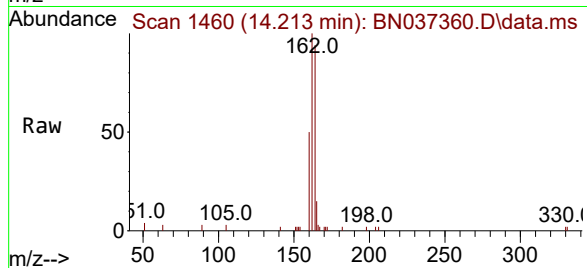




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

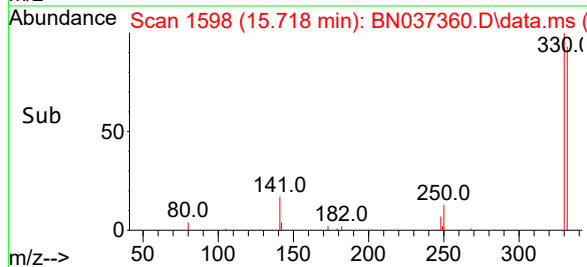
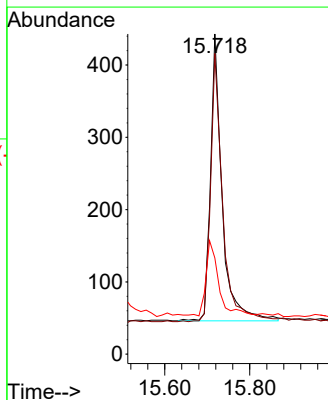
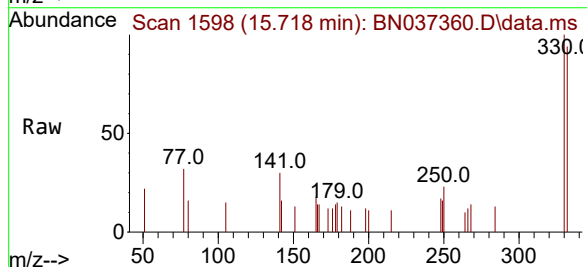
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

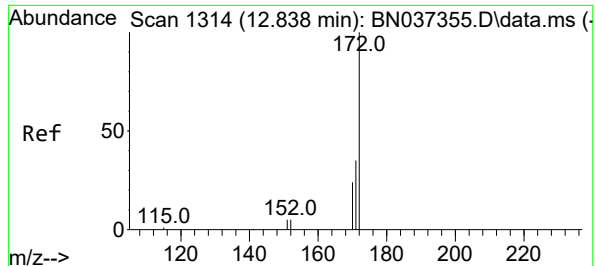
Tgt Ion:164 Resp: 3457
Ion Ratio Lower Upper
164 100
162 106.3 81.5 122.3
160 53.6 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:330 Resp: 756
Ion Ratio Lower Upper
330 100
332 96.7 78.4 117.6
141 28.0 24.4 36.6

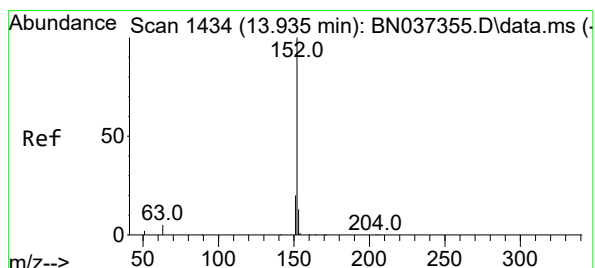
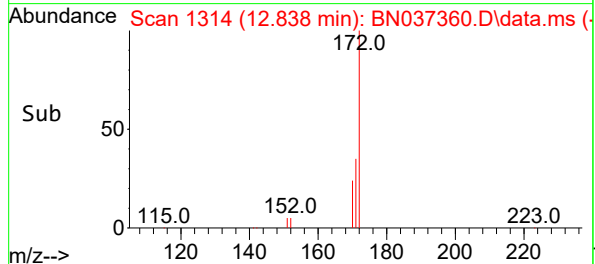
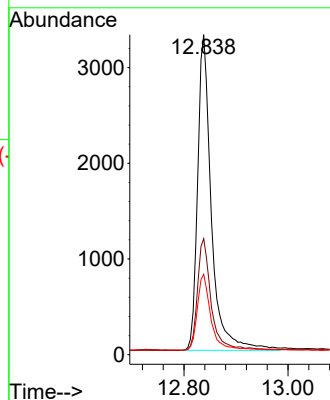
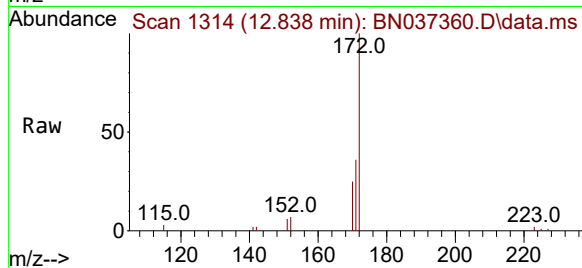




#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 12.838 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

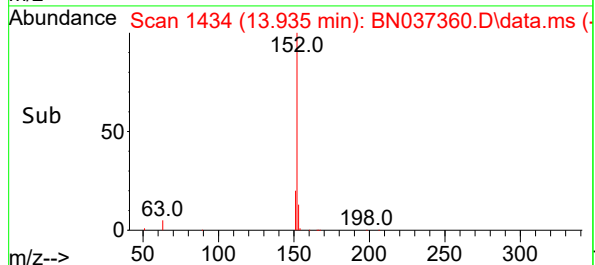
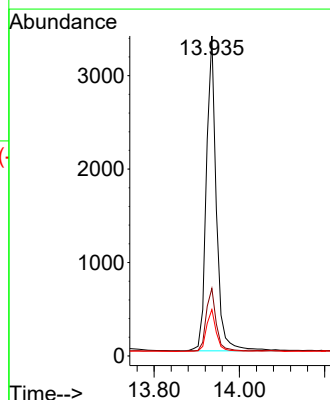
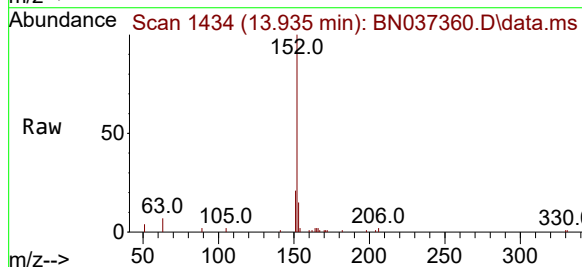
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

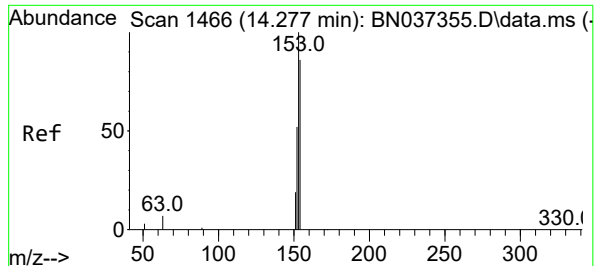
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	30.8	46.2
170	25.1	21.9	32.9



#16
Acenaphthylene
Concen: 0.376 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.6	24.8
153	13.3	10.2	15.2

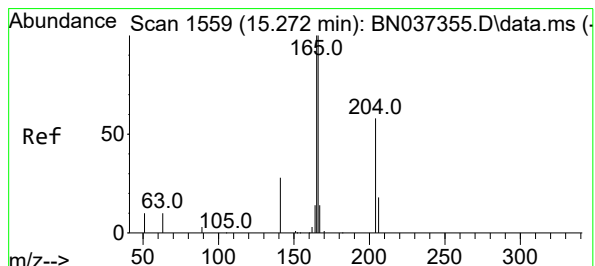
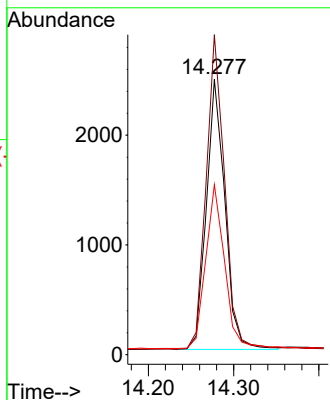
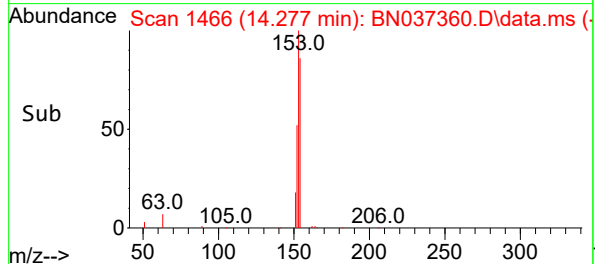
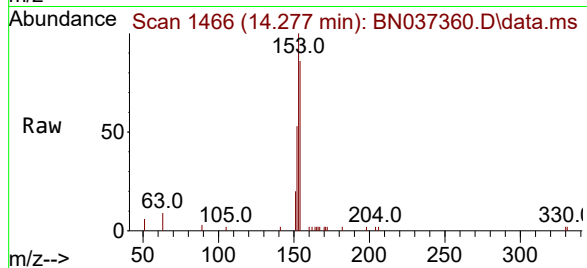




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

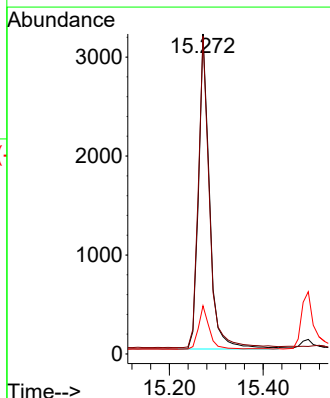
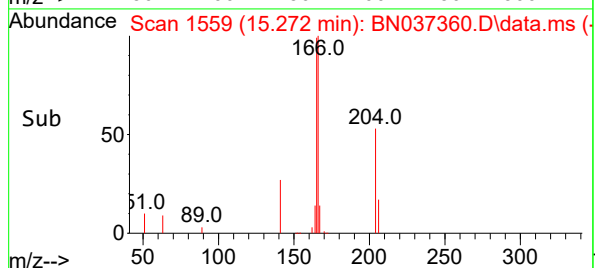
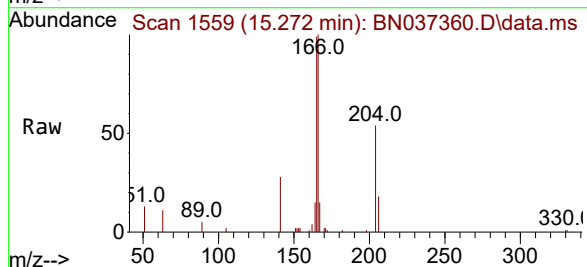
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

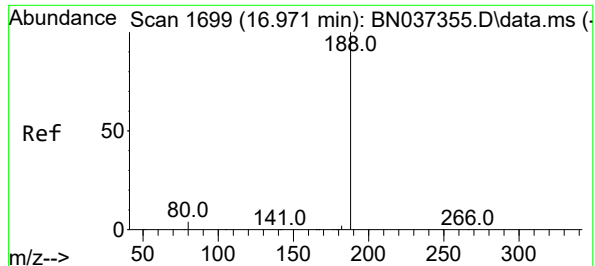
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.1	139.7
152	62.3	48.6	73.0



#18
Fluorene
Concen: 0.386 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.5	119.3
167	13.4	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

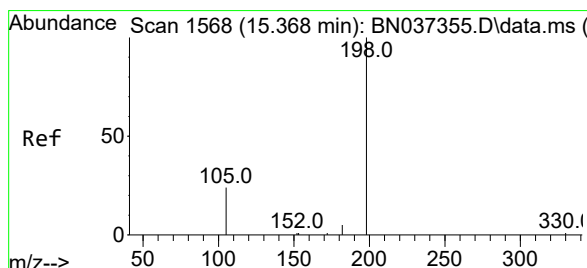
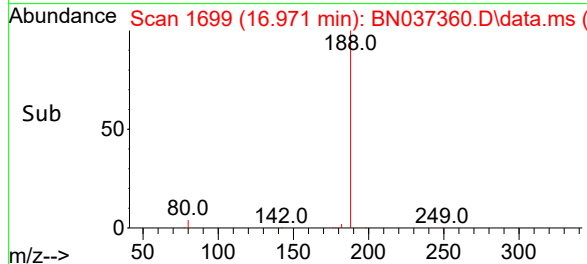
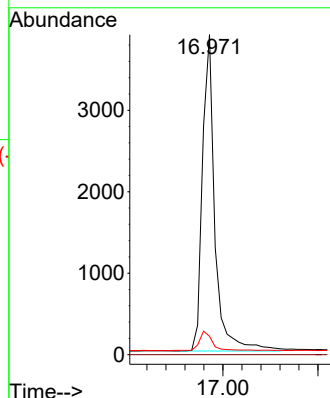
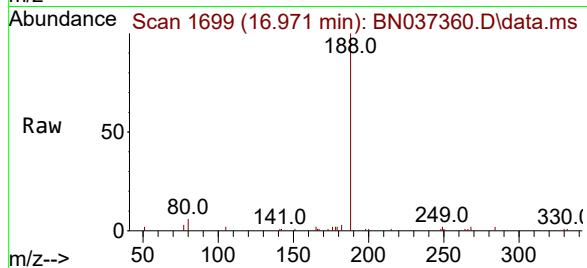
Tgt Ion:188 Resp: 7065

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.289 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

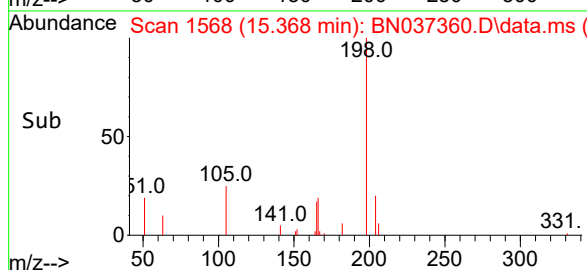
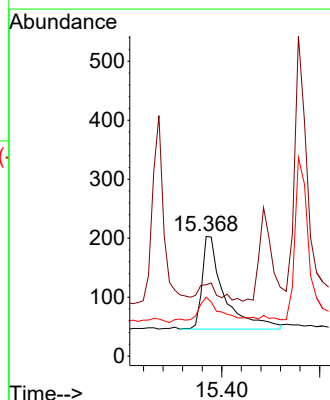
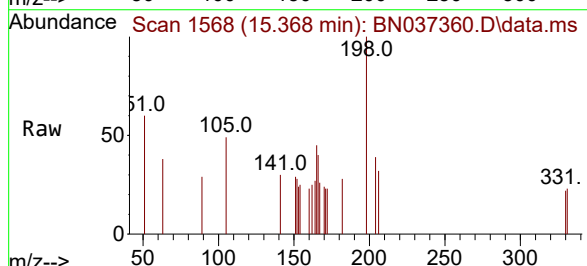
Tgt Ion:198 Resp: 491

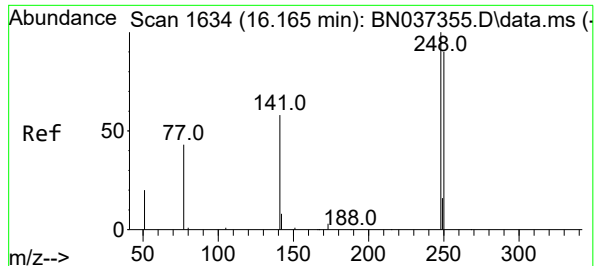
Ion Ratio Lower Upper

198 100

51 59.6 51.4 77.0

105 49.3 45.5 68.3

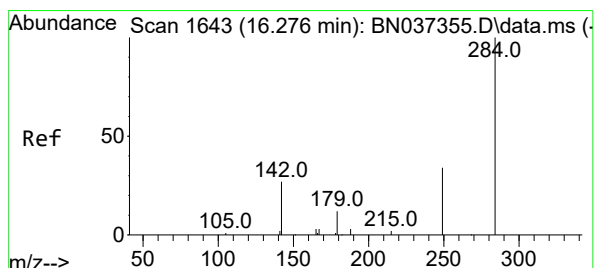
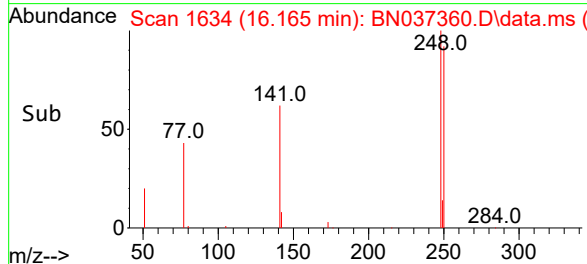
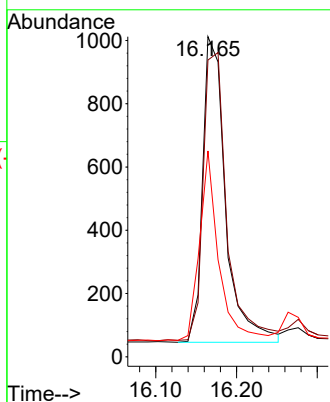
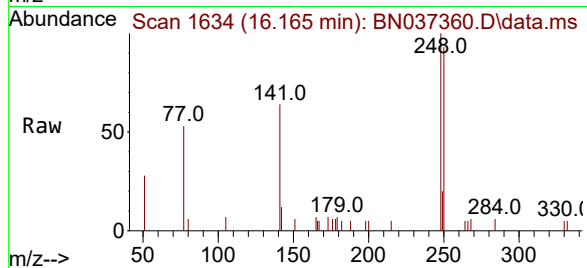




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

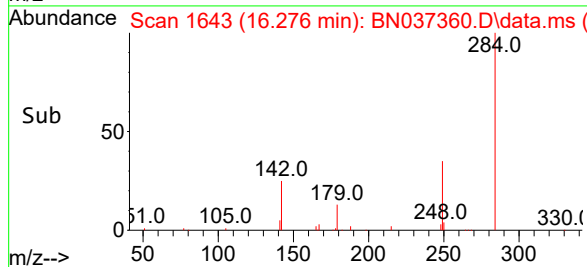
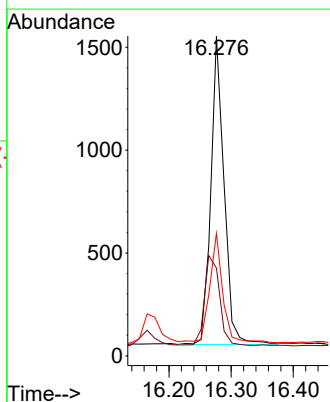
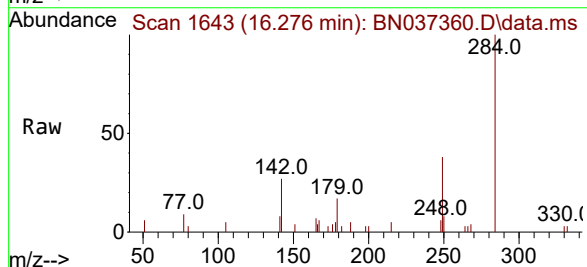
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

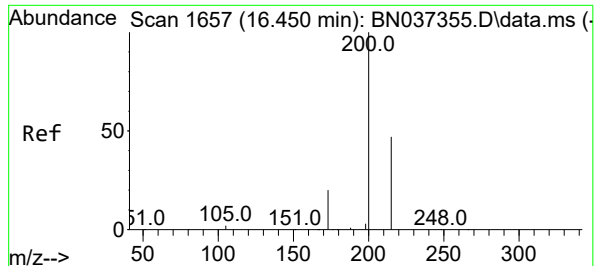
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.7	80.4	120.6
141	64.3	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.0	27.0	40.6
249	35.0	28.8	43.2

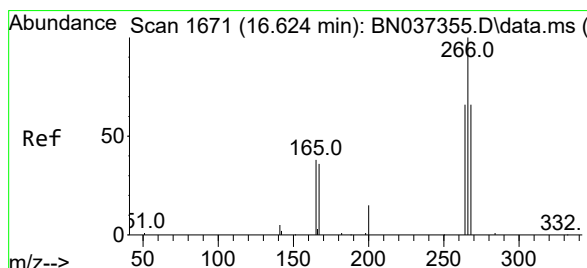
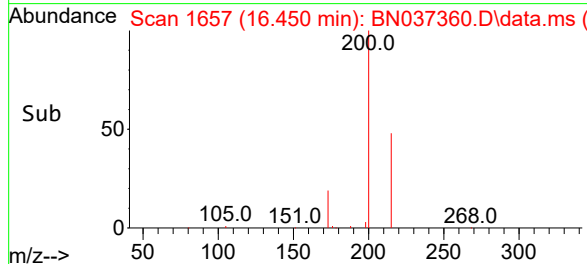
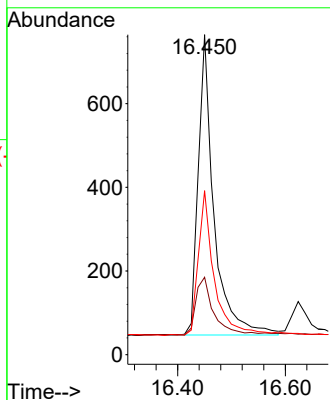
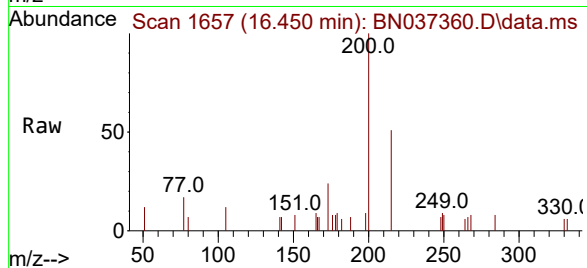




#23
Atrazine
Concen: 0.362 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

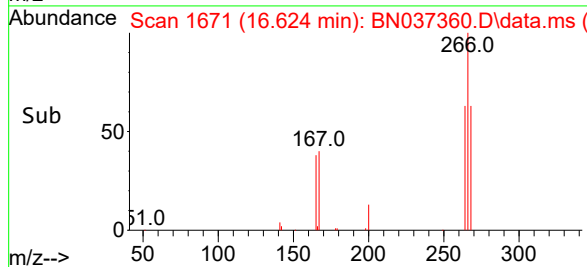
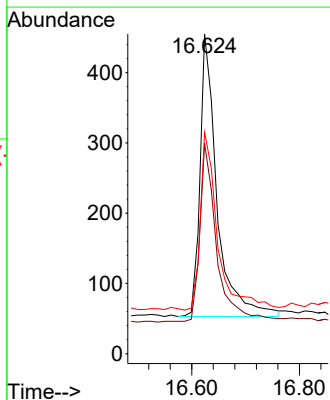
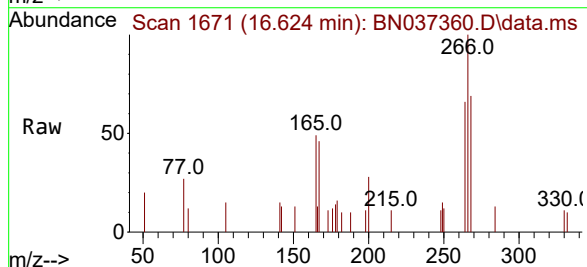
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

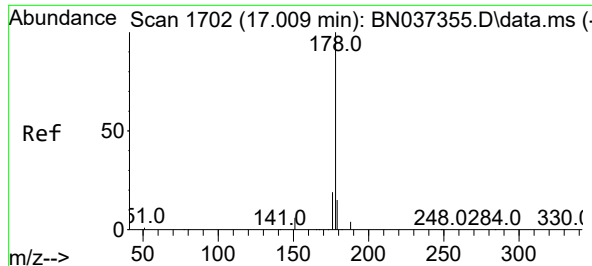
Tgt Ion:200 Resp: 1453
Ion Ratio Lower Upper
200 100
173 24.2 29.2 43.8#
215 51.2 48.8 73.2



#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:266 Resp: 881
Ion Ratio Lower Upper
266 100
264 63.5 50.3 75.5
268 65.0 55.3 82.9

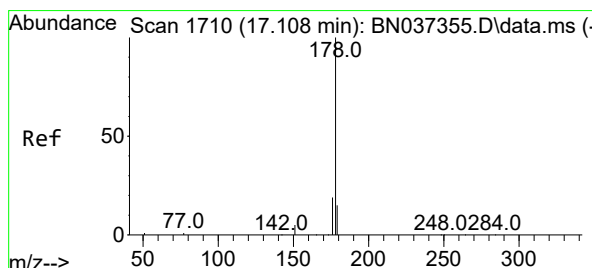
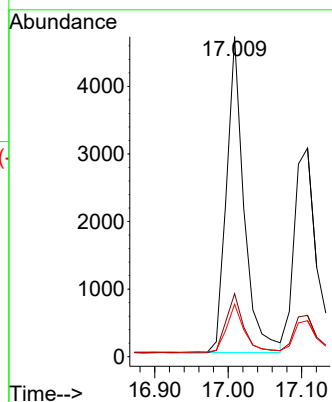
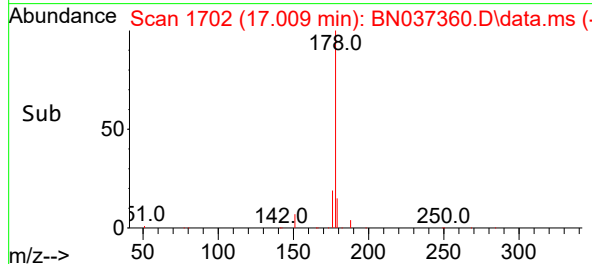
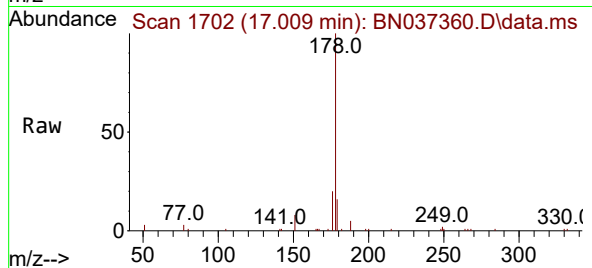




#25
Phenanthrene
Concen: 0.378 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

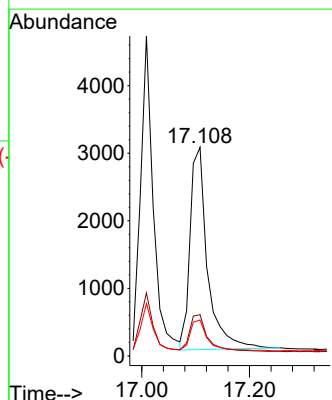
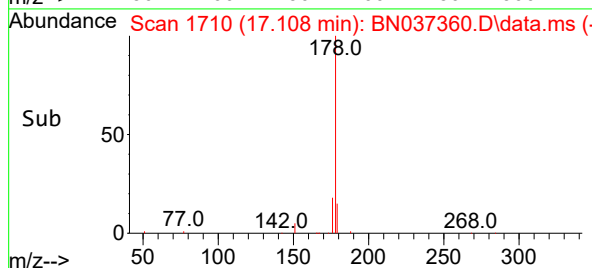
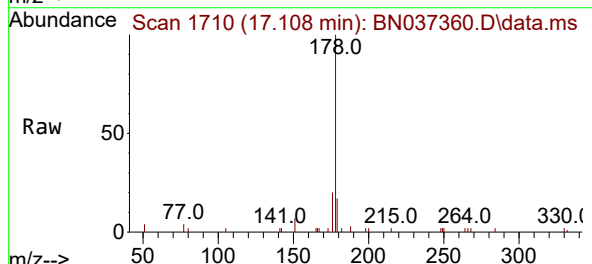
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

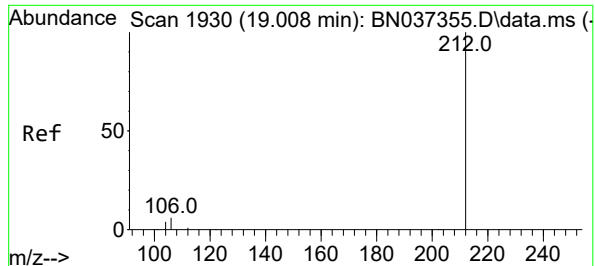
Tgt Ion:178 Resp: 7743
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.5 12.9 19.3



#26
Anthracene
Concen: 0.357 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:178 Resp: 6739
Ion Ratio Lower Upper
178 100
176 19.0 14.7 22.1
179 15.7 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.392 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

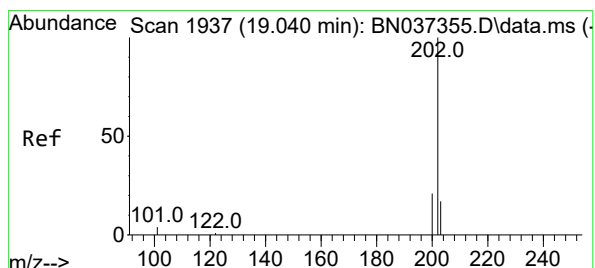
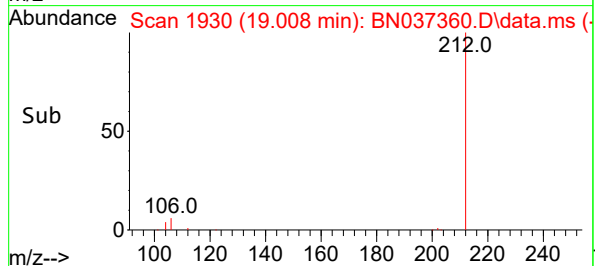
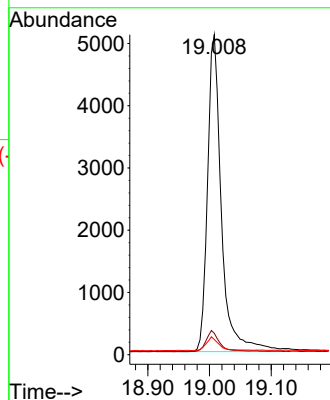
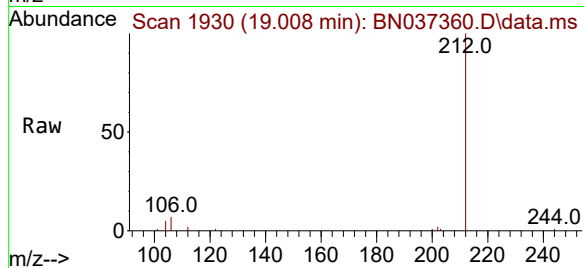
Tgt Ion:212 Resp: 7940

Ion Ratio Lower Upper

212 100

106 6.2 3.0 4.4#

104 3.9 2.0 3.0#



#28

Fluoranthene

Concen: 0.369 ng

RT: 19.036 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

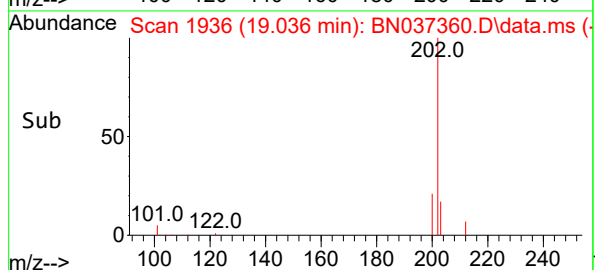
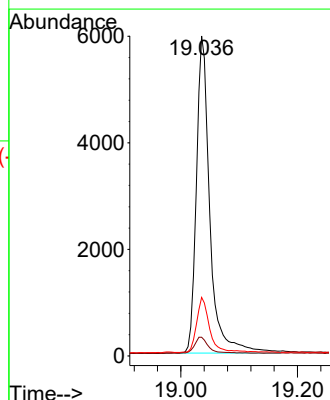
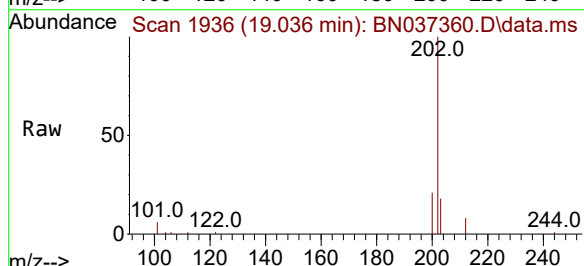
Tgt Ion:202 Resp: 9535

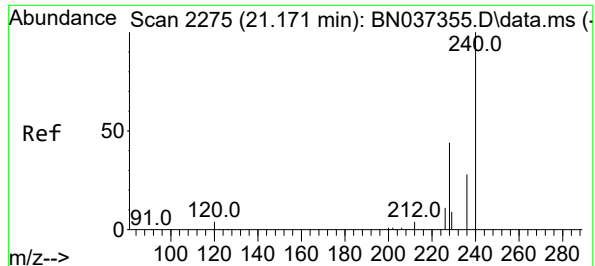
Ion Ratio Lower Upper

202 100

101 5.3 3.0 4.6#

203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

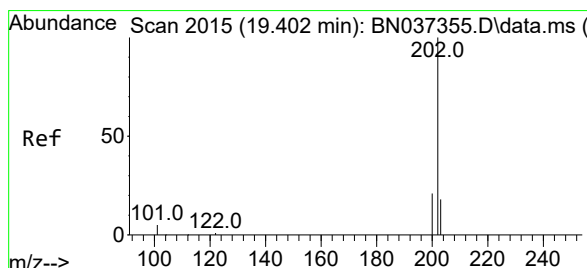
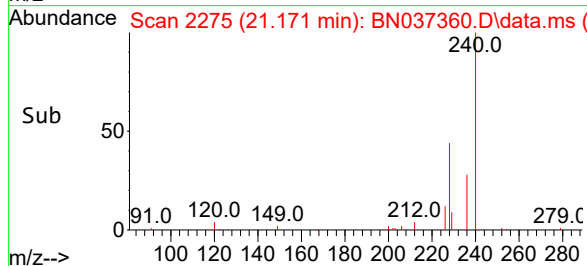
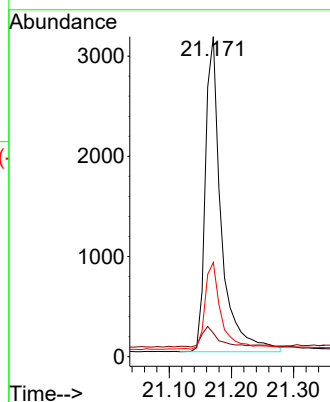
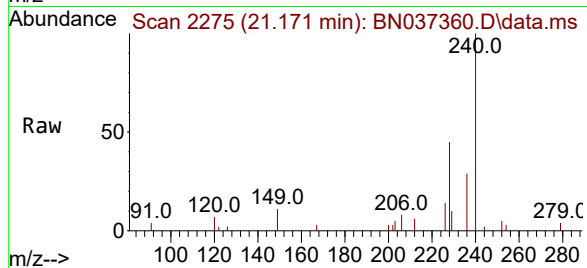
Tgt Ion:240 Resp: 5560

Ion Ratio Lower Upper

240 100

120 7.3 7.5 11.3#

236 29.5 24.9 37.3



#30

Pyrene

Concen: 0.424 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

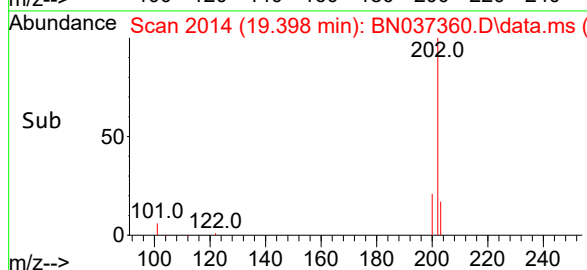
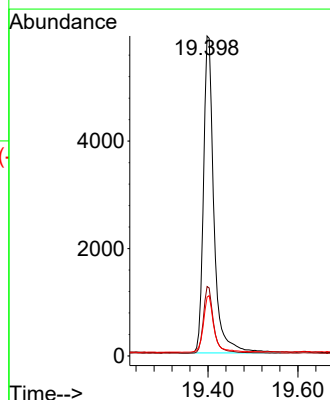
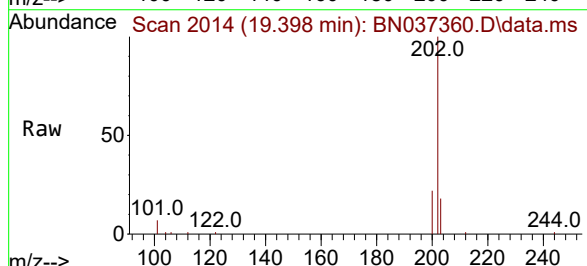
Tgt Ion:202 Resp: 9570

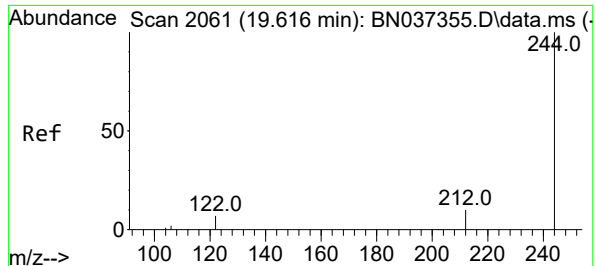
Ion Ratio Lower Upper

202 100

200 20.7 16.8 25.2

203 18.0 14.5 21.7

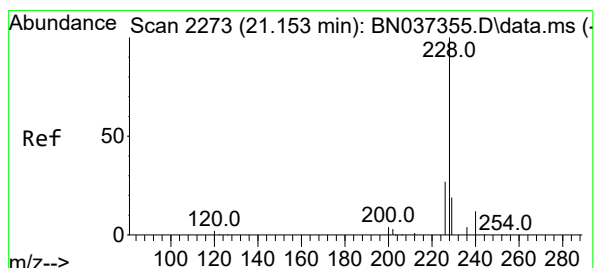
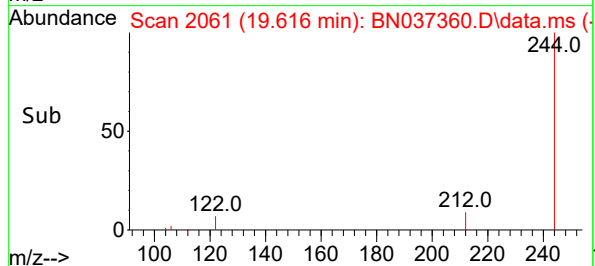
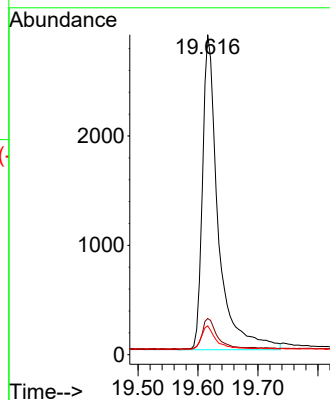
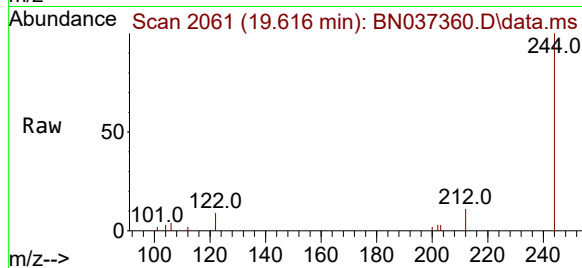




#31
Terphenyl-d14
Concen: 0.416 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

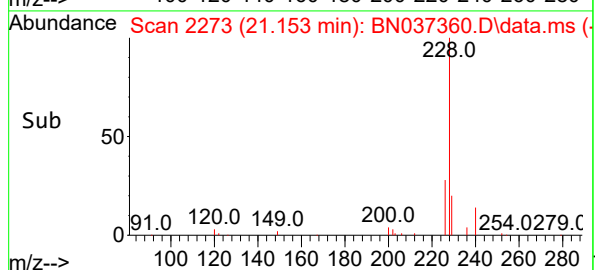
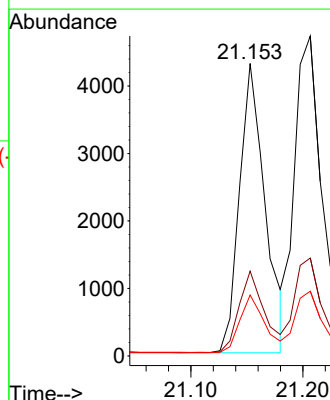
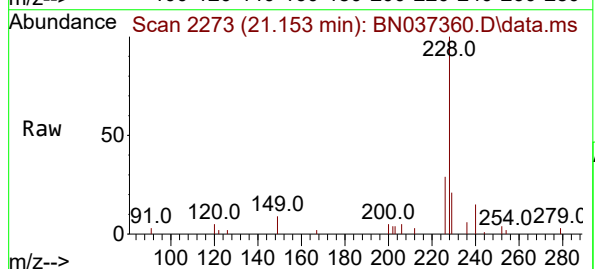
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

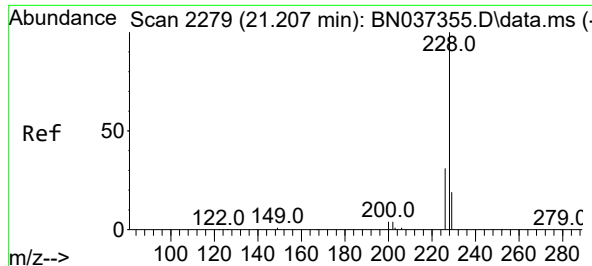
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.3	11.1	16.7
122	9.0	7.2	10.8



#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.0	23.0	34.4
229	20.9	17.4	26.0





#33

Chrysene

Concen: 0.412 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

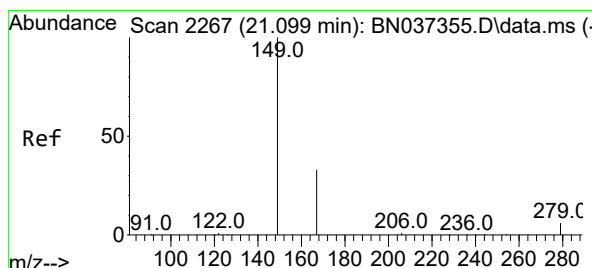
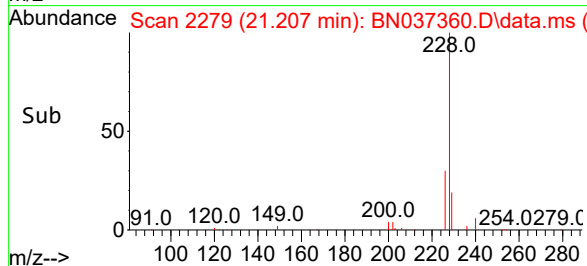
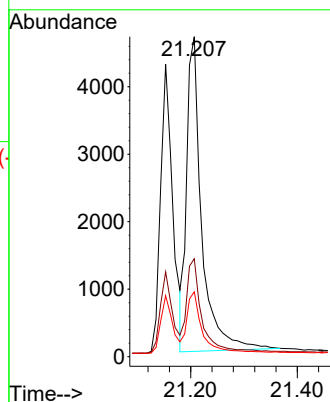
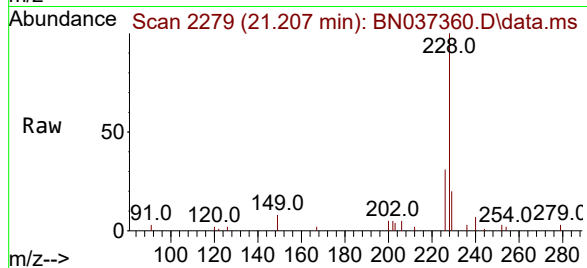
Tgt Ion:228 Resp: 9119

Ion Ratio Lower Upper

228 100

226 30.6 25.4 38.2

229 20.3 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.403 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

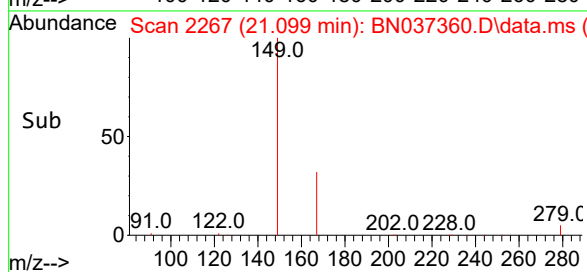
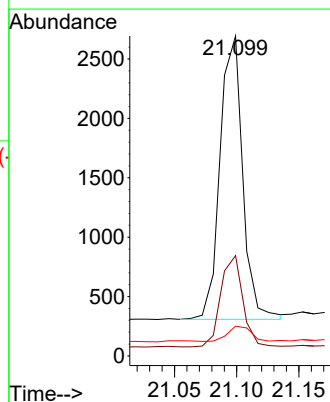
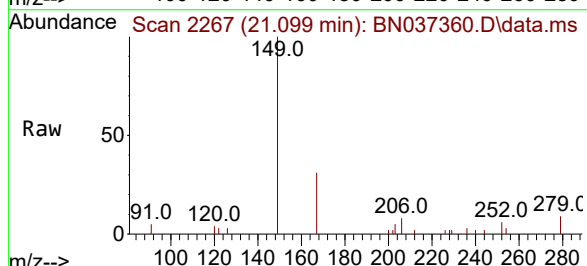
Tgt Ion:149 Resp: 3022

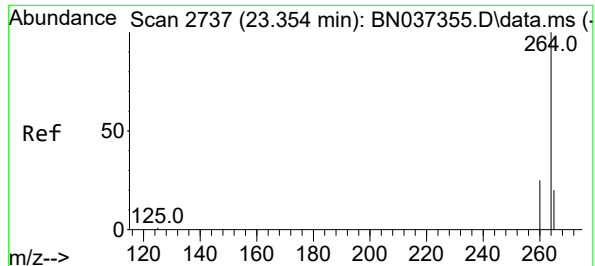
Ion Ratio Lower Upper

149 100

167 31.4 24.6 37.0

279 5.6 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

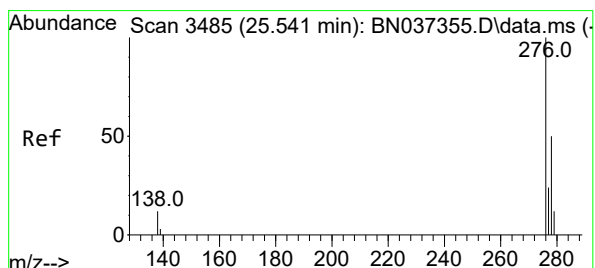
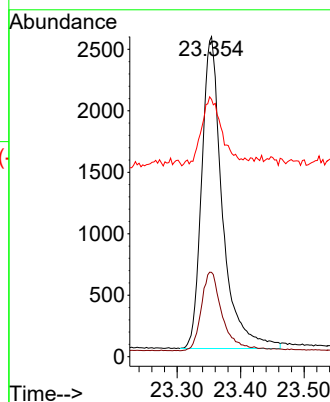
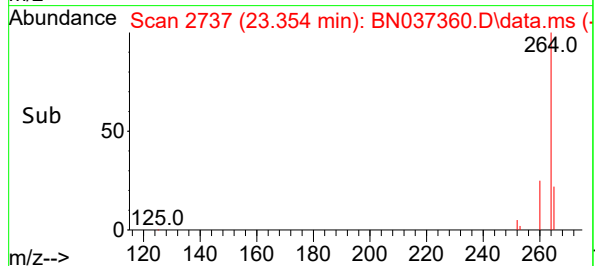
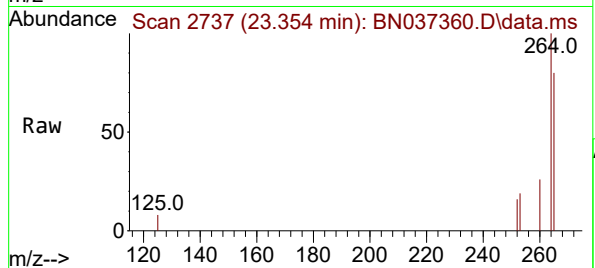
Tgt Ion:264 Resp: 5756

Ion Ratio Lower Upper

264 100

260 26.4 21.4 32.2

265 80.4 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.368 ng

RT: 25.541 min Scan# 3485

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

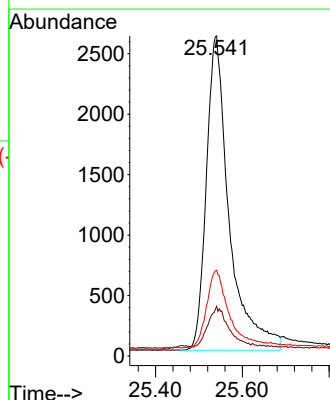
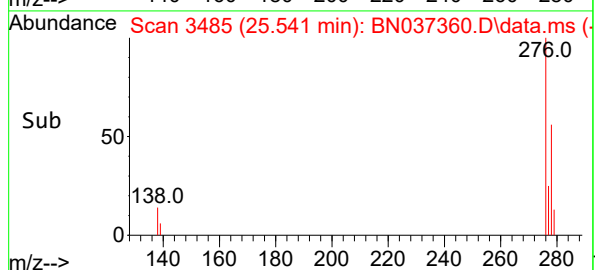
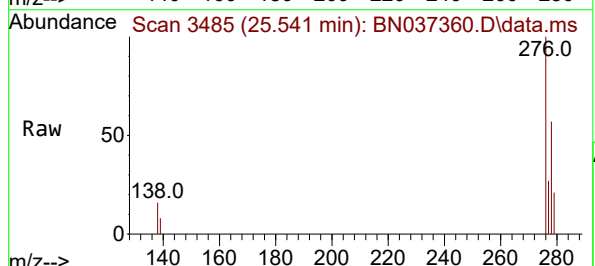
Tgt Ion:276 Resp: 9492

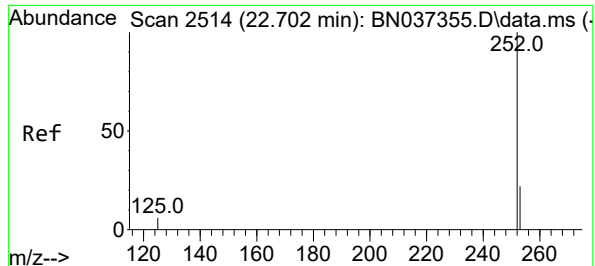
Ion Ratio Lower Upper

276 100

138 11.7 2.2 3.2#

277 24.2 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.382 ng m

RT: 22.702 min Scan# 2514

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

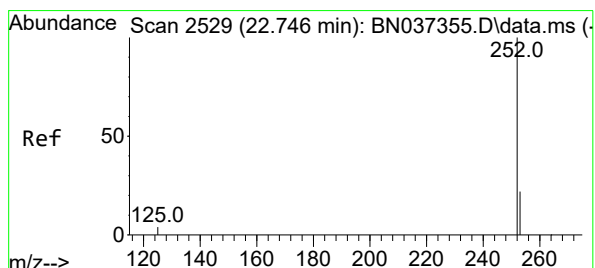
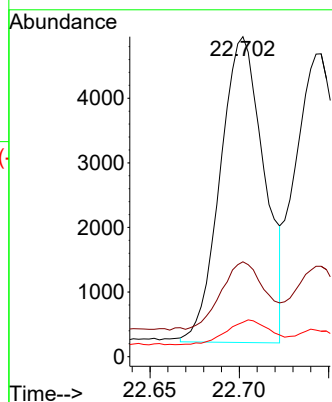
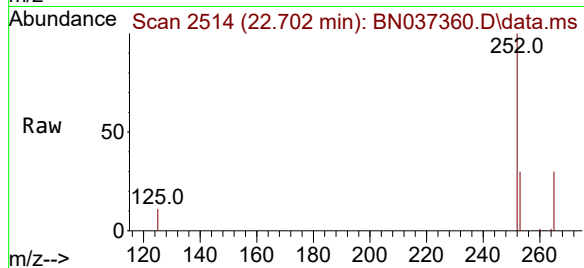
Tgt Ion:252 Resp: 8083

Ion Ratio Lower Upper

252 100

253 29.6 26.6 40.0

125 10.7 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 22.746 min Scan# 2529

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

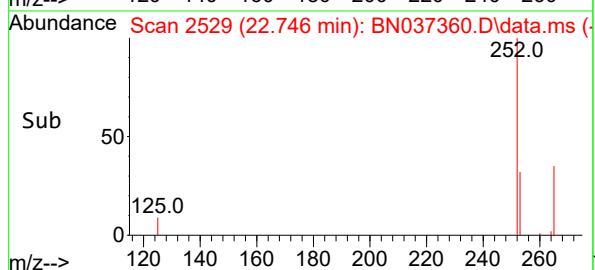
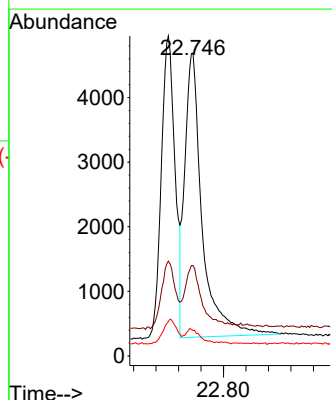
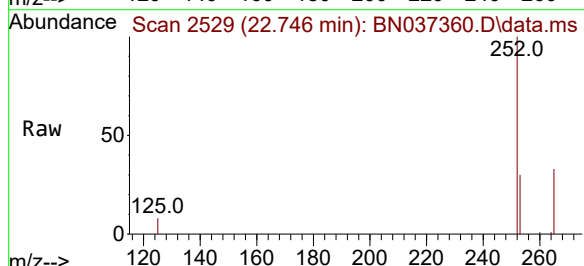
Tgt Ion:252 Resp: 9472

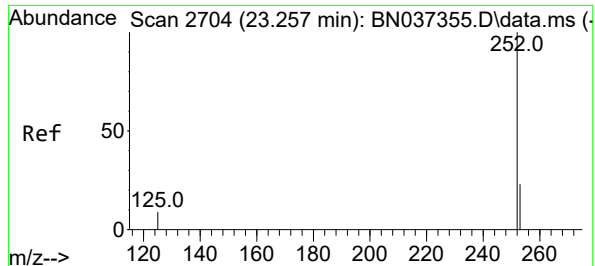
Ion Ratio Lower Upper

252 100

253 29.9 26.7 40.1

125 8.4 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

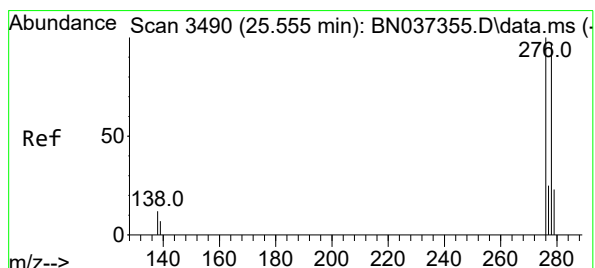
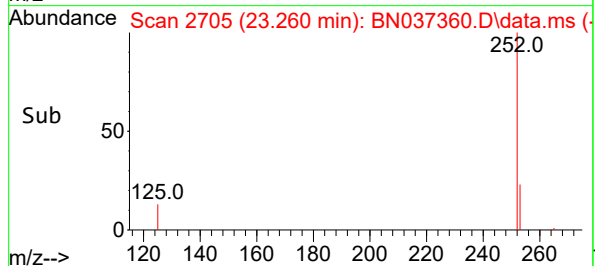
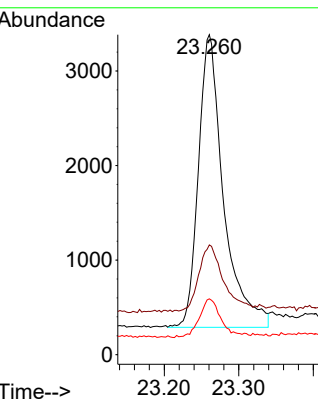
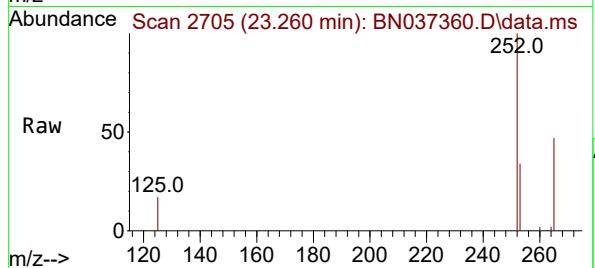
Tgt Ion:252 Resp: 7258

Ion Ratio Lower Upper

252 100

253 34.3 31.6 47.4

125 17.4 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.367 ng

RT: 25.553 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

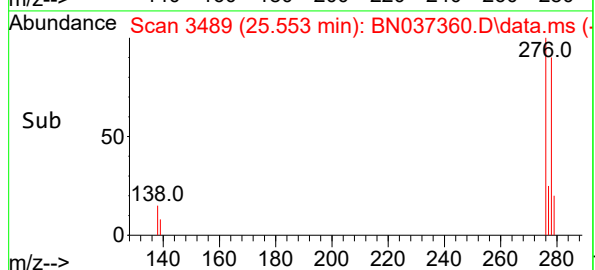
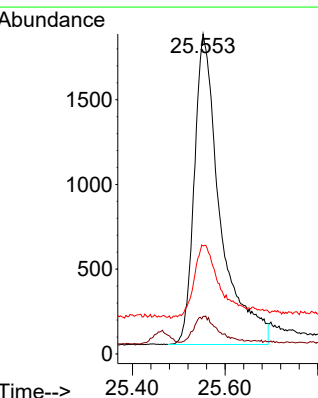
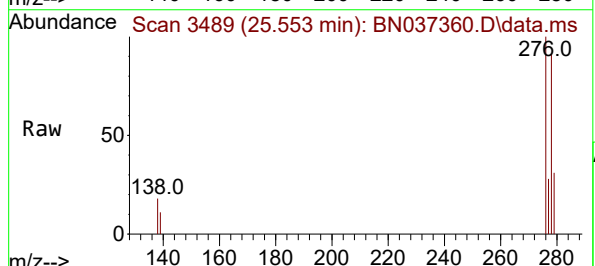
Tgt Ion:278 Resp: 7116

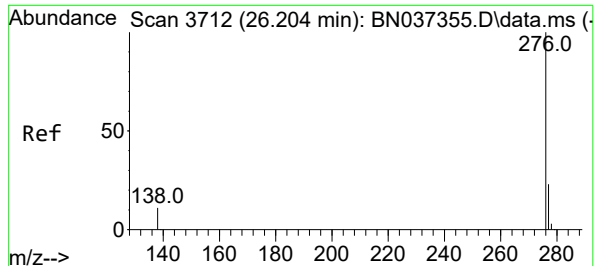
Ion Ratio Lower Upper

278 100

139 11.8 10.2 15.4

279 33.7 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.378 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037360.D

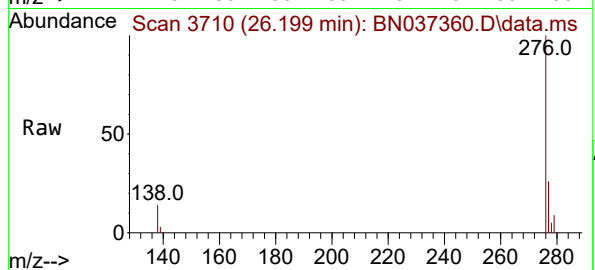
Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125



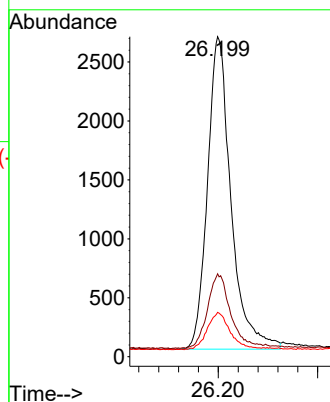
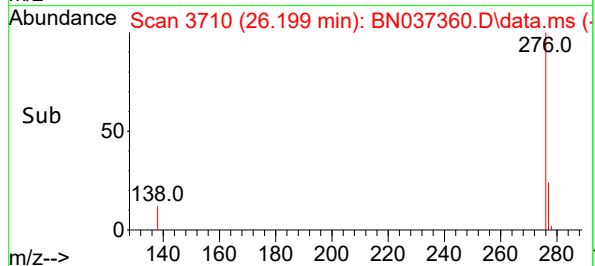
Tgt Ion:276 Resp: 8707

Ion Ratio Lower Upper

276 100

277 25.9 22.7 34.1

138 13.9 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037360.D
 Acq On : 20 Jun 2025 21:39
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

Quant Time: Jun 20 23:48:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 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	121	0.00
2	1,4-Dioxane	0.407	0.408	-0.2	126	0.00
3	n-Nitrosodimethylamine	0.373	0.366	1.9	112	0.00
4 S	2-Fluorophenol	0.799	0.797	0.3	128	0.00
5 S	Phenol-d6	0.823	0.778	5.5	123	0.00
6	bis(2-Chloroethyl)ether	0.730	0.744	-1.9	127	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8 S	Nitrobenzene-d5	0.323	0.327	-1.2	125	0.00
9	Naphthalene	1.056	1.054	0.2	123	0.00
10	Hexachlorobutadiene	0.417	0.426	-2.2	118	0.00
11 SURR	2-Methylnaphthalene-d10	0.648	0.670	-3.4	123	0.00
12	2-Methylnaphthalene	0.736	0.715	2.9	122	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	123	0.00
14 S	2,4,6-Tribromophenol	0.235	0.219	6.8	117	0.00
15 S	2-Fluorobiphenyl	1.757	1.750	0.4	121	0.00
16	Acenaphthylene	1.682	1.580	6.1	122	0.00
17	Acenaphthene	1.107	1.076	2.8	125	0.00
18	Fluorene	1.556	1.502	3.5	123	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.096	0.069	28.1#	107	0.00
21	4-Bromophenyl-phenylether	0.285	0.270	5.3	118	0.00
22	Hexachlorobenzene	0.310	0.315	-1.6	122	0.00
23	Atrazine	0.227	0.206	9.3	115	0.00
24	Pentachlorophenol	0.154	0.125	18.8	111	0.00
25	Phenanthrene	1.158	1.096	5.4	121	0.00
26	Anthracene	1.068	0.954	10.7	118	0.00
27 SURR	Fluoranthene-d10	1.148	1.124	2.1	118	0.00
28	Fluoranthene	1.464	1.350	7.8	121	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	116	0.00
30	Pyrene	1.625	1.721	-5.9	120	0.00
31 S	Terphenyl-d14	0.912	0.947	-3.8	118	0.00
32	Benzo(a)anthracene	1.315	1.224	6.9	116	0.00
33	Chrysene	1.594	1.640	-2.9	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.540	0.544	-0.7	116	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.794	1.649	8.1	113	0.00
37	Benzo(b)fluoranthene	1.472	1.404	4.6	113	0.00
38	Benzo(k)fluoranthene	1.597	1.646	-3.1	122	0.00
39 C	Benzo(a)pyrene	1.319	1.261	4.4	115	0.00
40	Dibenzo(a,h)anthracene	1.348	1.236	8.3	117	0.00
41	Benzo(g,h,i)perylene	1.603	1.513	5.6	111	0.00

(#) = Out of Range

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

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037360.D
 Acq On : 20 Jun 2025 21:39
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

Quant Time: Jun 20 23:48:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 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	121	0.00
2	1,4-Dioxane	0.400	0.401	-0.3	126	0.00
3	n-Nitrosodimethylamine	0.400	0.393	1.8	112	0.00
4 S	2-Fluorophenol	0.400	0.399	0.3	128	0.00
5 S	Phenol-d6	0.400	0.378	5.5	123	0.00
6	bis(2-Chloroethyl)ether	0.400	0.407	-1.7	127	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8 S	Nitrobenzene-d5	0.400	0.405	-1.3	125	0.00
9	Naphthalene	0.400	0.399	0.3	123	0.00
10	Hexachlorobutadiene	0.400	0.409	-2.2	118	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.414	-3.5	123	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	122	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	123	0.00
14 S	2,4,6-Tribromophenol	0.400	0.373	6.8	117	0.00
15 S	2-Fluorobiphenyl	0.400	0.398	0.5	121	0.00
16	Acenaphthylene	0.400	0.376	6.0	122	0.00
17	Acenaphthene	0.400	0.389	2.8	125	0.00
18	Fluorene	0.400	0.386	3.5	123	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.289	27.8#	107	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	118	0.00
22	Hexachlorobenzene	0.400	0.406	-1.5	122	0.00
23	Atrazine	0.400	0.362	9.5	115	0.00
24	Pentachlorophenol	0.400	0.323	19.3	111	0.00
25	Phenanthrene	0.400	0.378	5.5	121	0.00
26	Anthracene	0.400	0.357	10.8	118	0.00
27 SURR	Fluoranthene-d10	0.400	0.392	2.0	118	0.00
28	Fluoranthene	0.400	0.369	7.8	121	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	116	0.00
30	Pyrene	0.400	0.424	-6.0	120	0.00
31 S	Terphenyl-d14	0.400	0.416	-4.0	118	0.00
32	Benzo(a)anthracene	0.400	0.372	7.0	116	0.00
33	Chrysene	0.400	0.412	-3.0	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.403	-0.8	116	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.368	8.0	113	0.00
37	Benzo(b)fluoranthene	0.400	0.382	4.5	113	0.00
38	Benzo(k)fluoranthene	0.400	0.412	-3.0	122	0.00
39 C	Benzo(a)pyrene	0.400	0.382	4.5	115	0.00
40	Dibenzo(a,h)anthracene	0.400	0.367	8.3	117	0.00
41	Benzo(g,h,i)perylene	0.400	0.378	5.5	111	0.00

(#) = Out of Range

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

Instrument :

BNA_N

ClientSampleId :

ICVBN062125



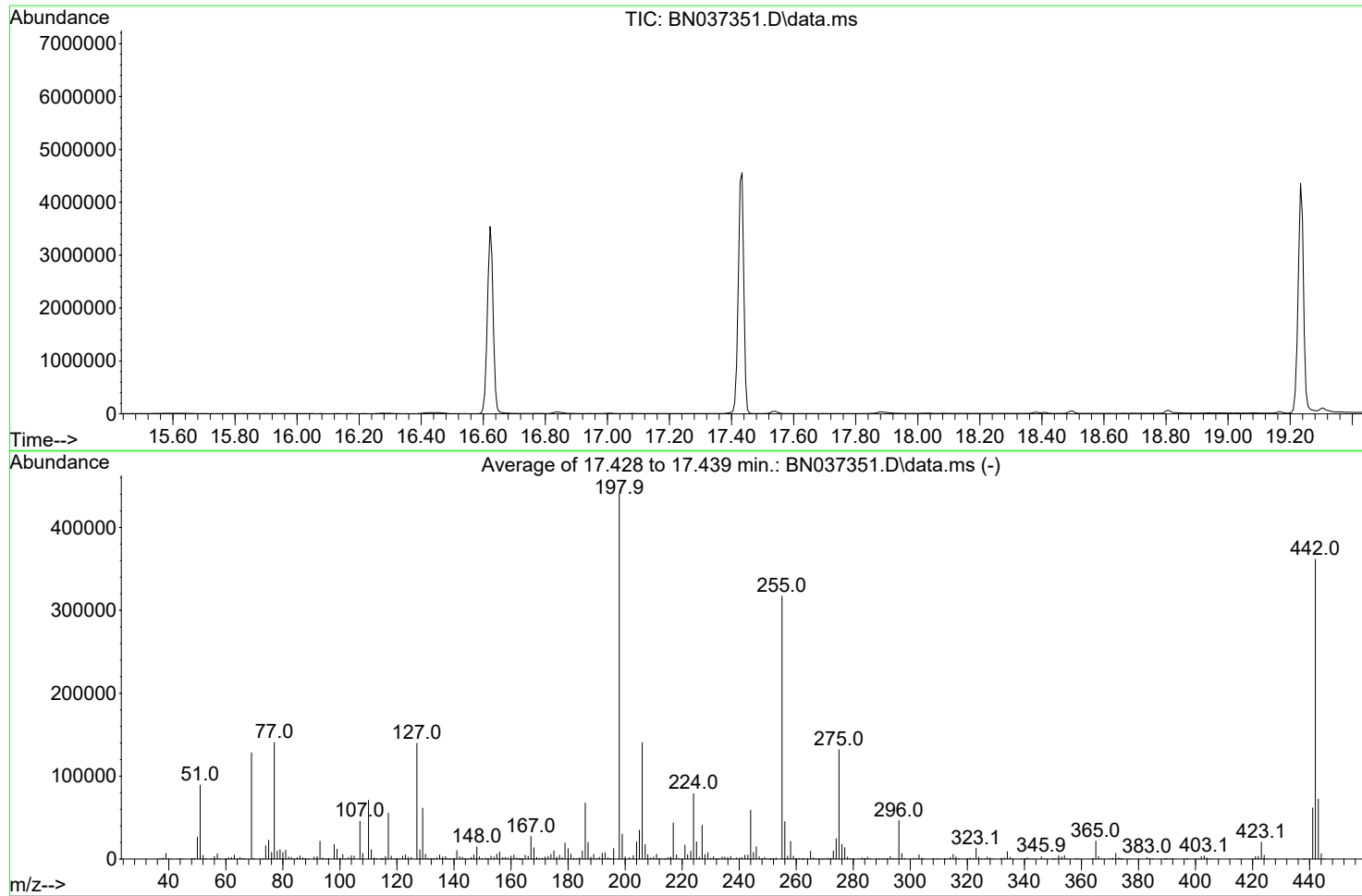
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 23:41:54 2025



AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2464

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	128141	PASS
70	69	0.00	2	0.7	882	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	440469	PASS
199	198	5	9	6.8	30163	PASS
365	198	1	100	4.9	21610	PASS
441	443	0.01	150	85.2	61520	PASS
442	442	100	100	100.0	361557	PASS
443	442	15	24	20.0	72213	PASS

DDT Breakdown

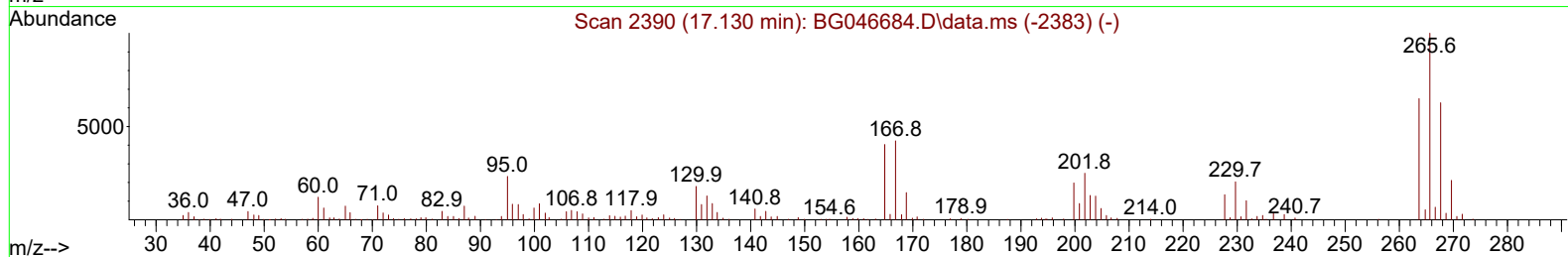
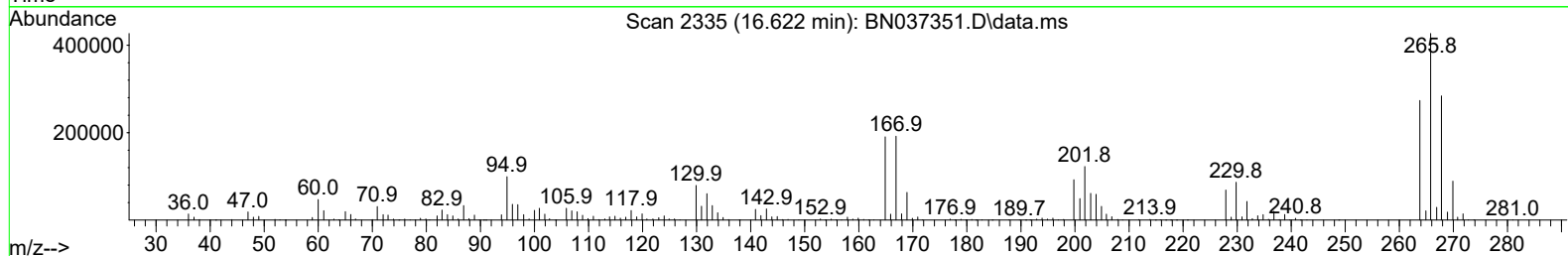
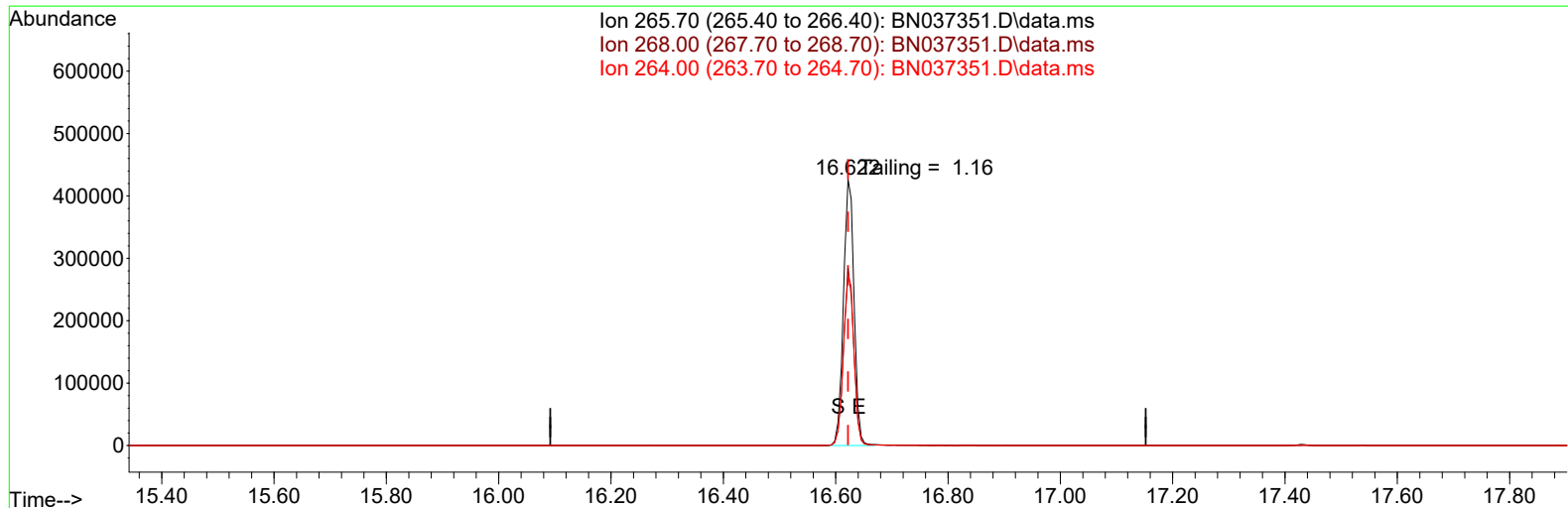
Date	Instrument Name	DFTPP Data File
6/21/2025	BNA_N	<u>BN037351.D</u>
Compound Name	Response	Retention Time
DDT	1600198	20.475
DDD	22591	20.257
DDE	1214	19.522
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
23805	1624003	1.47

Instrument :
BNA_N
ClientSampleId :
DFTPP

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 21 02:21:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037351.D\data.ms

(70) Pentachlorophenol (C)

16.622min (0.000) 21508.69 ng

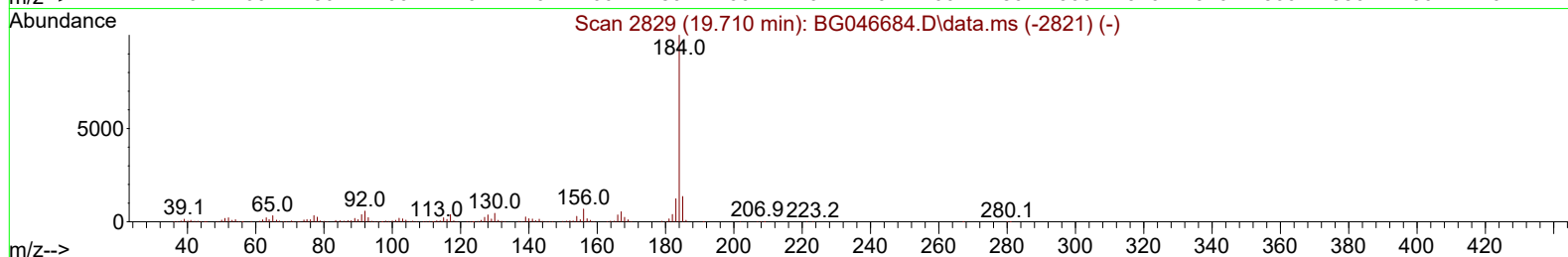
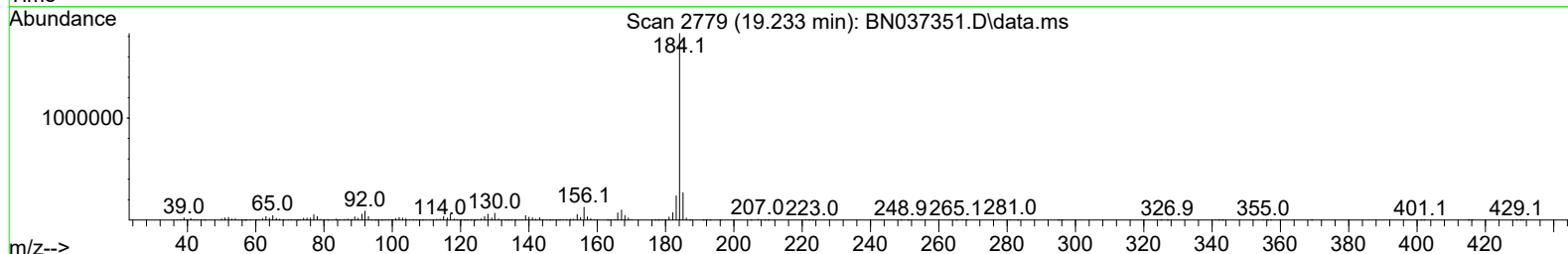
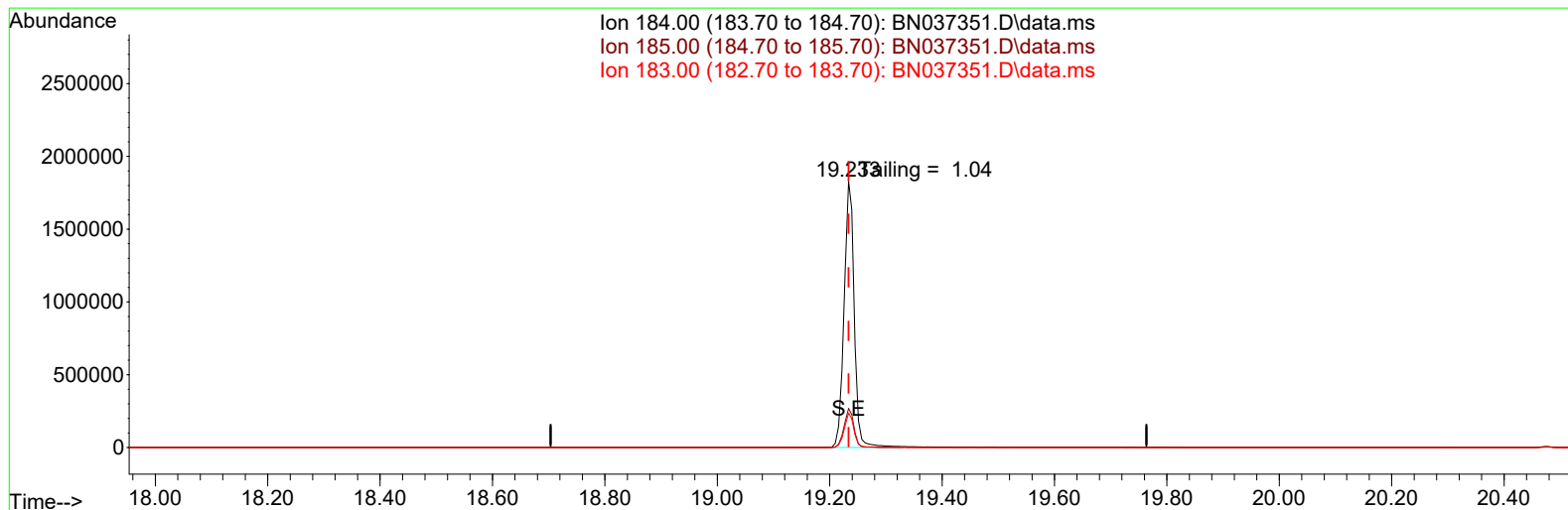
response 561749

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.53
264.00	61.60	64.10
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 21 02:21:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037351.D\data.ms

(77) Benzidine

19.233min (0.000) 0.00 ng

response 2309913

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.66
183.00	13.20	13.00
0.00	0.00	0.00

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB168563BL	SDG No.:	Q2377
Lab Sample ID:	PB168563BL	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
BN037361.D	1	06/20/25 12:03	06/20/25 22:16	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		30 (20) - 150 (139)	81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (54) - 150 (157)	93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		30 (27) - 130 (154)	75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		30 (30) - 130 (155)	81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		30 (54) - 130 (175)	93%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.568			
1146-65-2	Naphthalene-d8	4050	10.351			
15067-26-2	Acenaphthene-d10	2740	14.224			
1517-22-2	Phenanthrene-d10	4860	16.984			
1719-03-5	Chrysene-d12	4290	21.171			
1520-96-3	Perylene-d12	3460	23.357			

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\BN062125\
 Data File : BN037361.D
 Acq On : 20 Jun 2025 22:16
 Operator : RC/JU
 Sample : PB168563BL
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168563BL

Quant Time: Jun 20 23:51:33 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1968	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	4045	0.400	ng	0.01
13) Acenaphthene-d10	14.224	164	2736	0.400	ng	0.01
19) Phenanthrene-d10	16.984	188	4864	0.400	ng	0.01
29) Chrysene-d12	21.171	240	4288	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	3457	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1419	0.361	ng	0.00
5) Phenol-d6	6.759	99	1185	0.293	ng	0.00
8) Nitrobenzene-d5	8.739	82	978	0.299	ng	0.02
11) 2-Methylnaphthalene-d10	11.960	152	2116	0.323	ng	0.02
14) 2,4,6-Tribromophenol	15.742	330	469	0.292	ng	0.02
15) 2-Fluorobiphenyl	12.853	172	3920	0.326	ng	0.02
27) Fluoranthene-d10	19.012	212	5207	0.373	ng	0.00
31) Terphenyl-d14	19.621	244	3648	0.373	ng	0.00

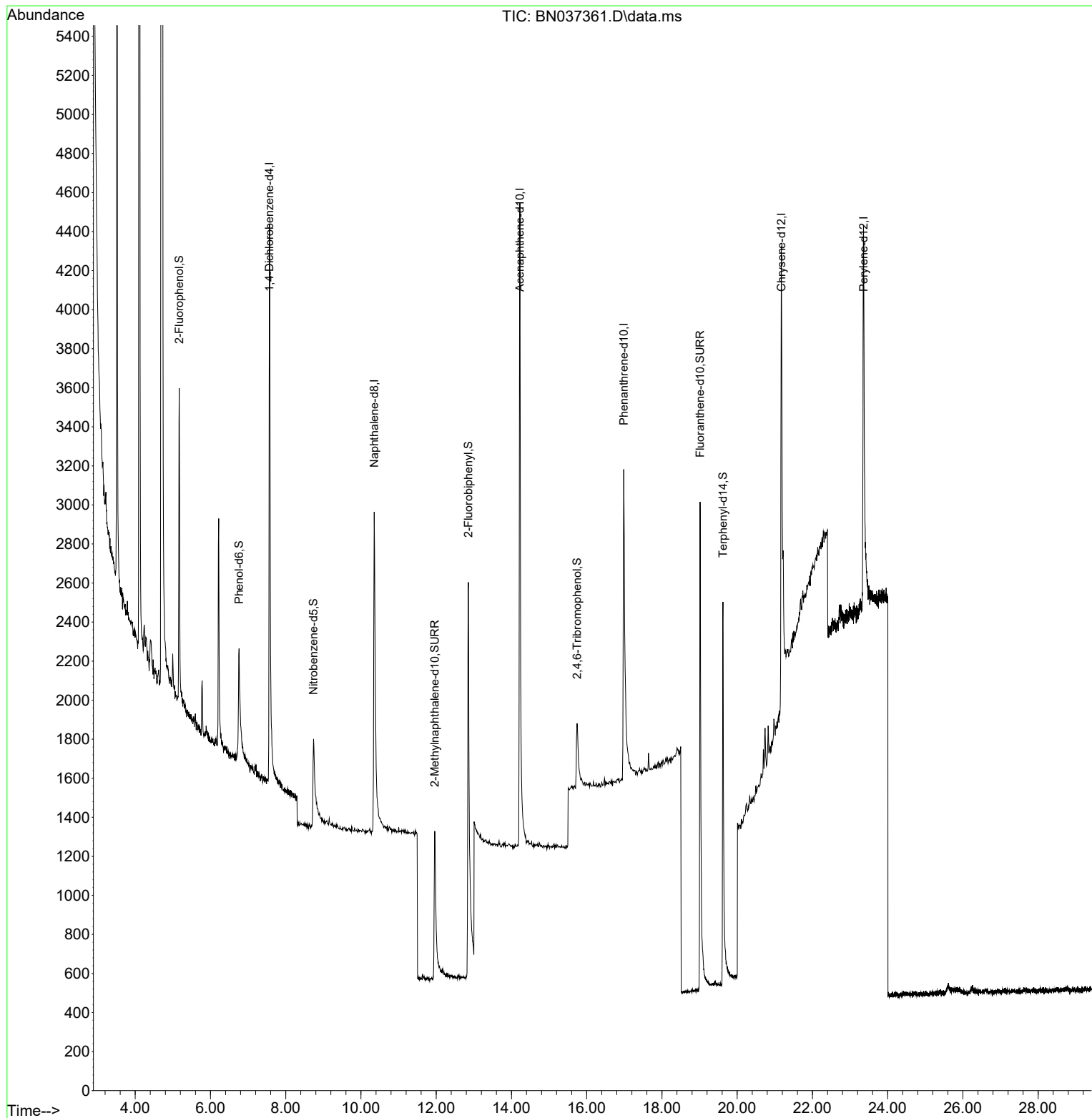
Target Compounds	Qvalue
-----	-----

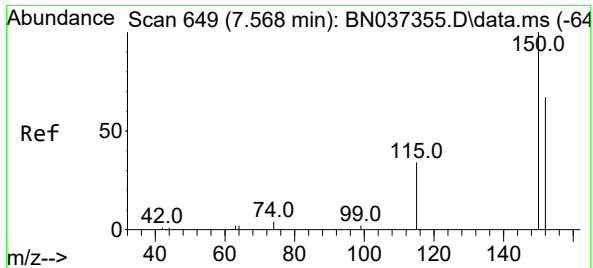
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037361.D
Acq On : 20 Jun 2025 22:16
Operator : RC/JU
Sample : PB168563BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Quant Time: Jun 20 23:51:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

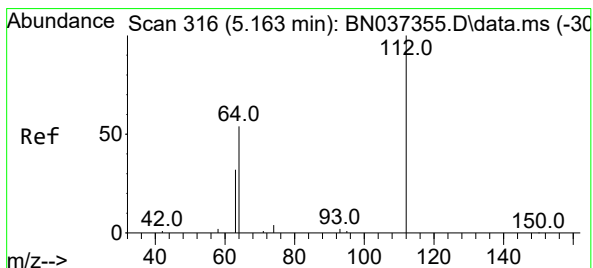
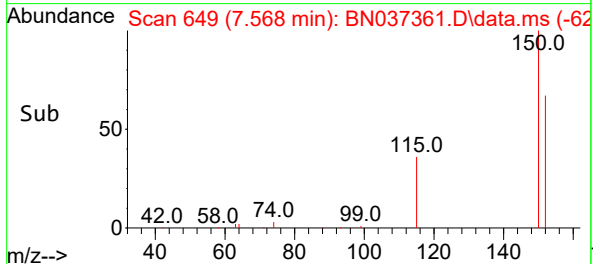
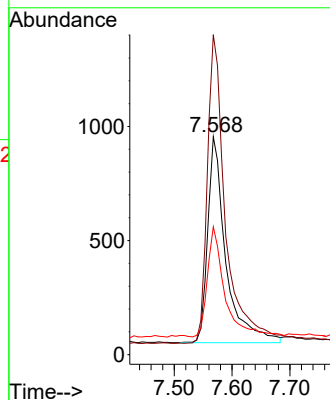
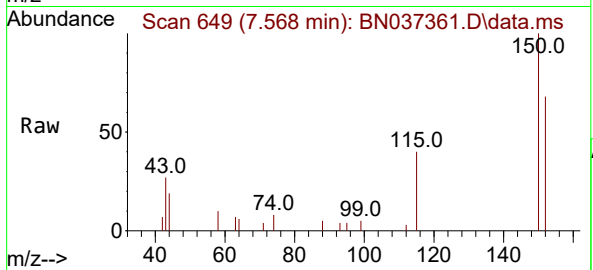




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

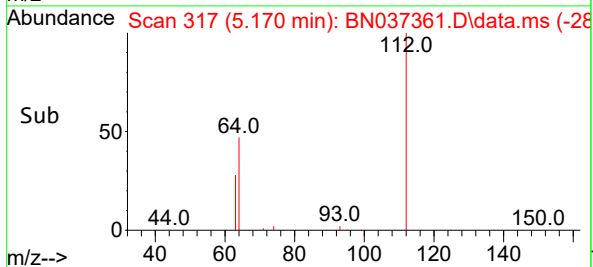
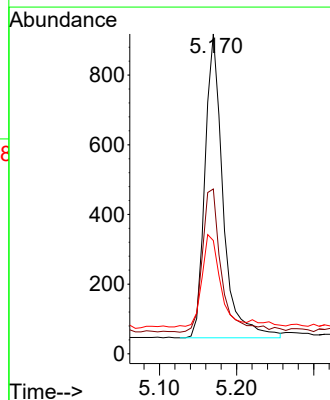
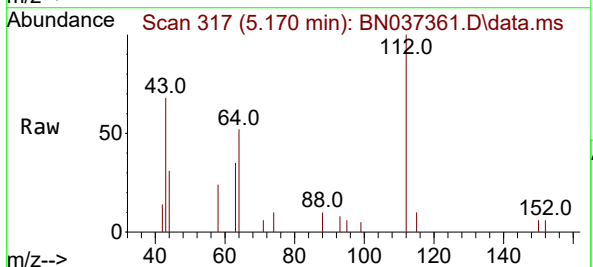
Instrument :
BNA_N
ClientSampleId :
PB168563BL

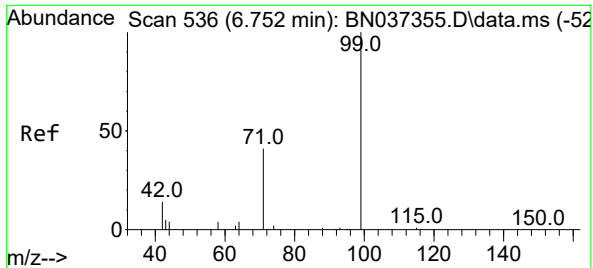
Tgt Ion:152 Resp: 1968
Ion Ratio Lower Upper
152 100
150 146.8 112.7 169.1
115 58.6 45.9 68.9



#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:112 Resp: 1419
Ion Ratio Lower Upper
112 100
64 50.4 38.7 58.1
63 30.7 26.4 39.6

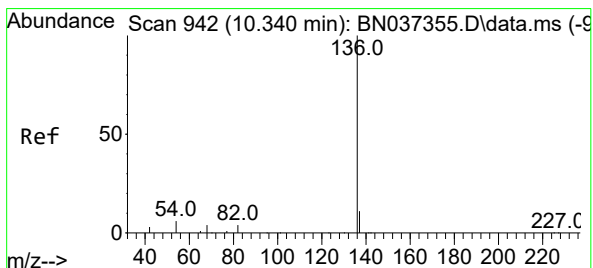
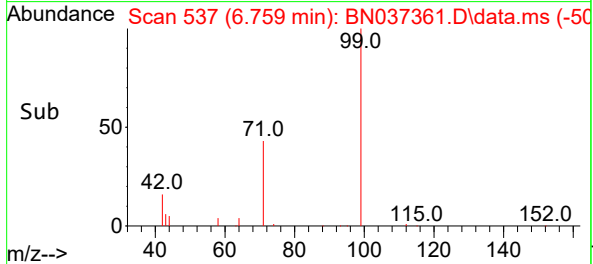
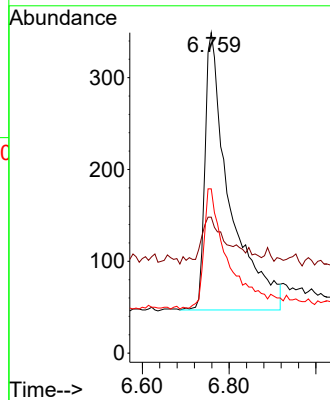
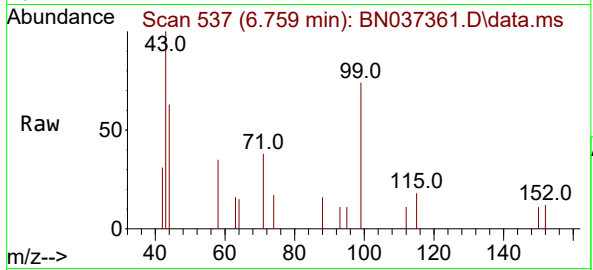




#5
Phenol-d6
Concen: 0.293 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

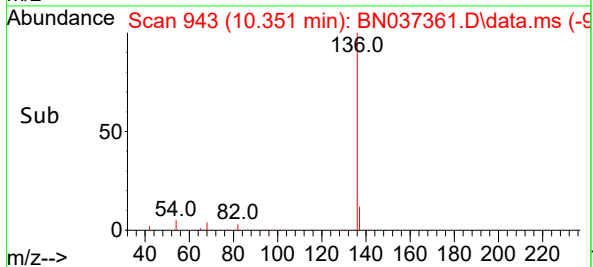
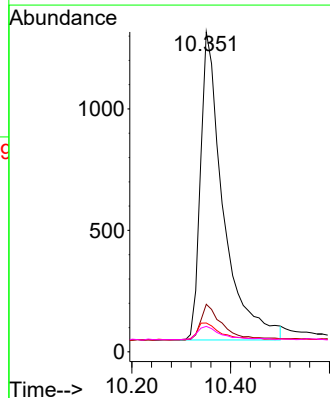
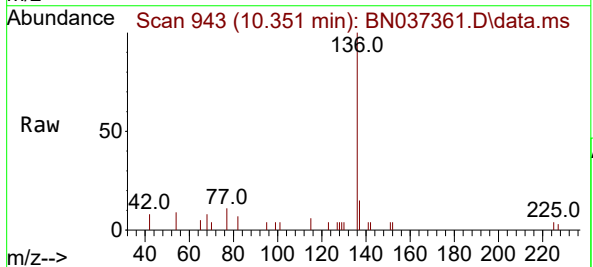
Instrument :
BNA_N
ClientSampleId :
PB168563BL

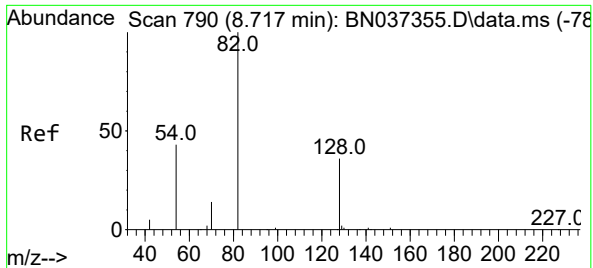
Tgt Ion: 99 Resp: 1185
Ion Ratio Lower Upper
99 100
42 19.7 19.8 29.8#
71 40.8 42.6 64.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.010 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion: 136 Resp: 4045
Ion Ratio Lower Upper
136 100
137 14.9 12.2 18.2
54 9.0 8.8 13.2
68 8.0 7.0 10.4

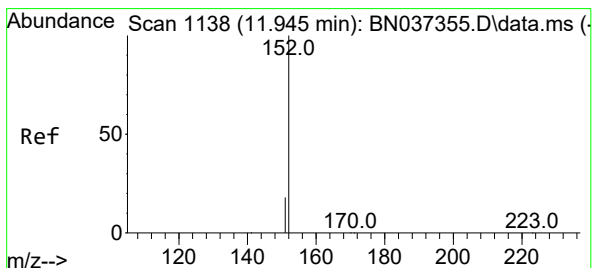
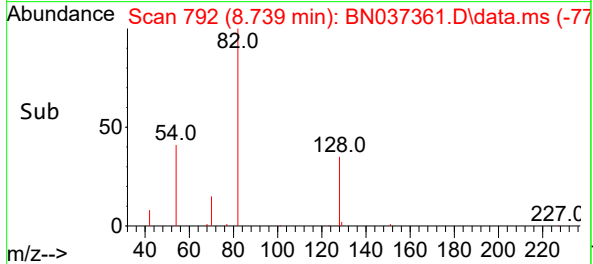
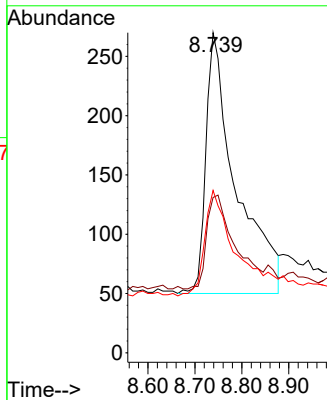
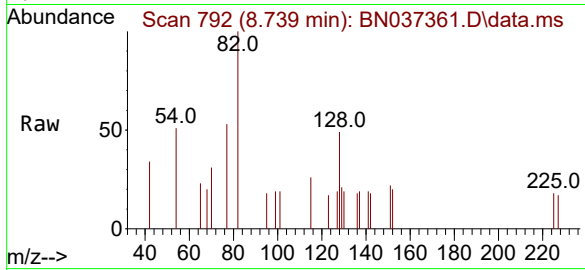




#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.739 min Scan# 79
Delta R.T. 0.021 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

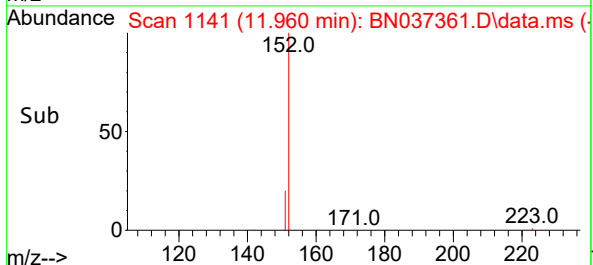
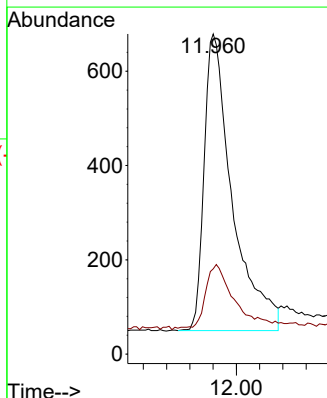
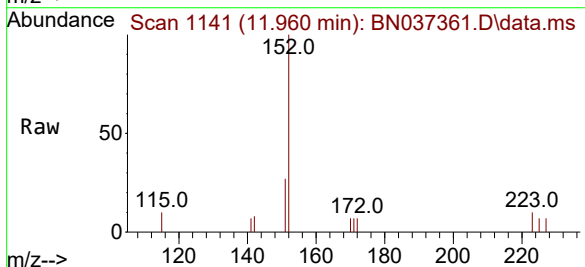
Instrument :
BNA_N
ClientSampleId :
PB168563BL

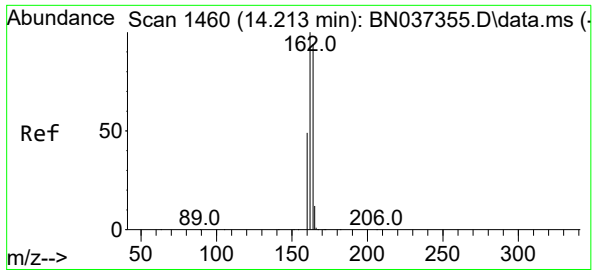
Tgt Ion	82	Resp:	978
Ion	Ratio	Lower	Upper
82	100		
128	48.5	42.5	63.7
54	50.7	43.2	64.8



#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.015 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion	152	Resp:	2116
Ion	Ratio	Lower	Upper
152	100		
151	23.0	17.4	26.0

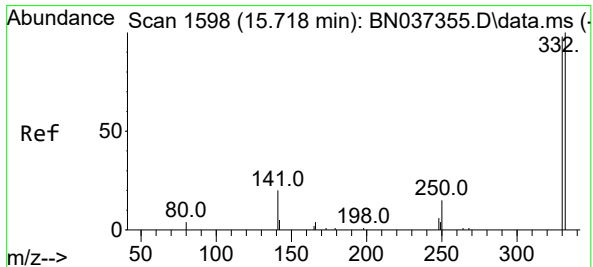
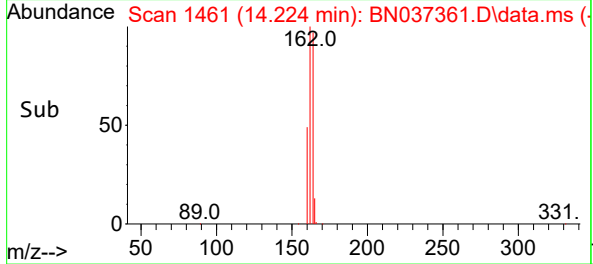
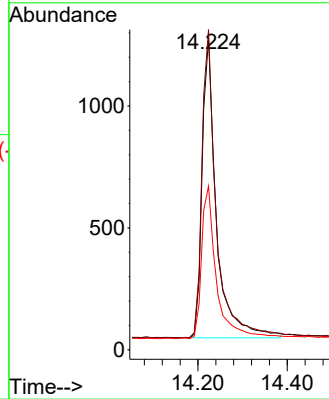
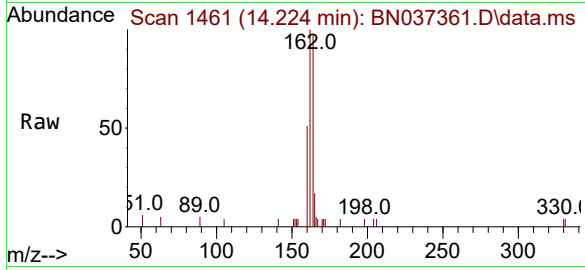




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.011 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

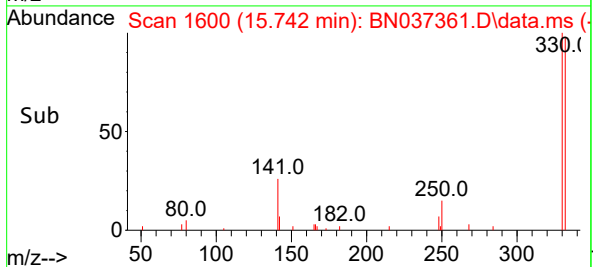
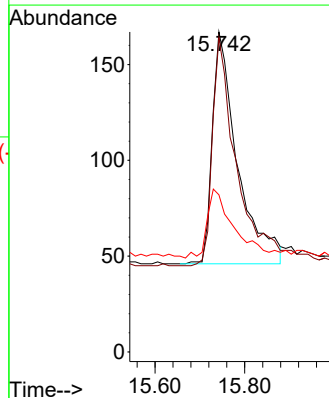
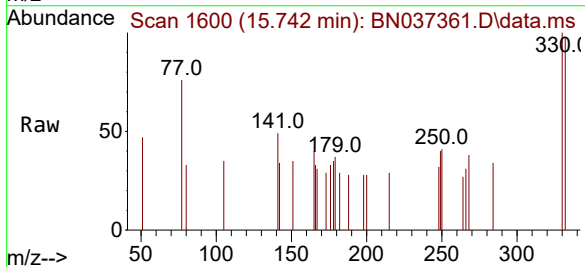
Instrument :
BNA_N
ClientSampleId :
PB168563BL

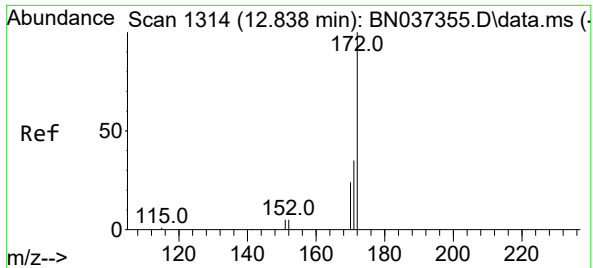
Tgt Ion:164 Resp: 2736
Ion Ratio Lower Upper
164 100
162 102.7 81.5 122.3
160 52.5 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.292 ng
RT: 15.742 min Scan# 1600
Delta R.T. 0.025 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:330 Resp: 469
Ion Ratio Lower Upper
330 100
332 95.1 78.4 117.6
141 31.3 24.4 36.6

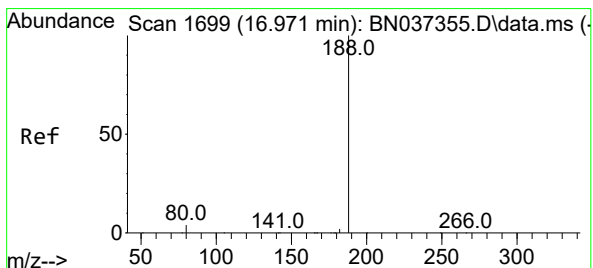
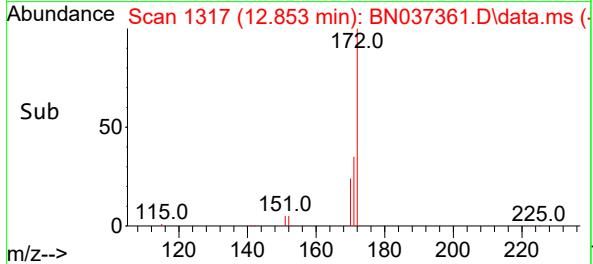
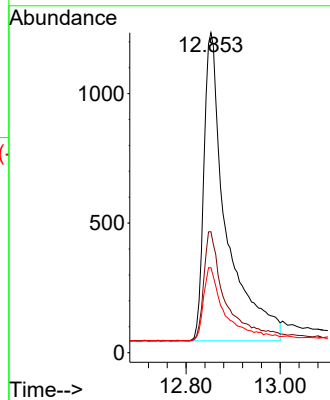
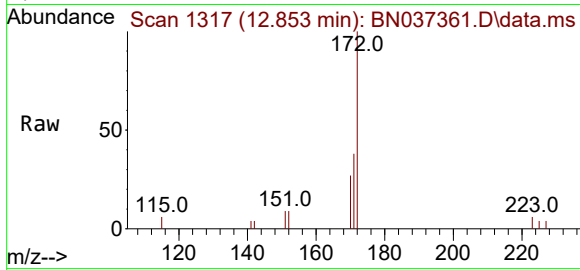




#15
2-Fluorobiphenyl
Concen: 0.326 ng
RT: 12.853 min Scan# 11
Delta R.T. 0.015 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

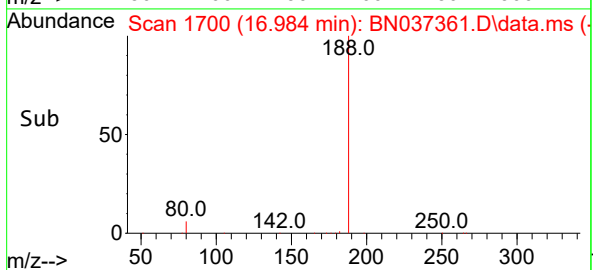
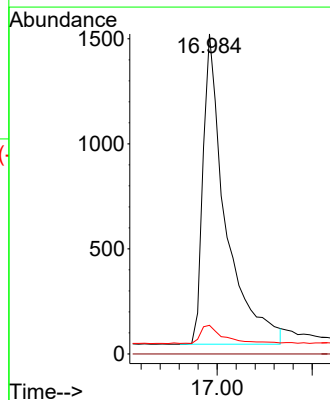
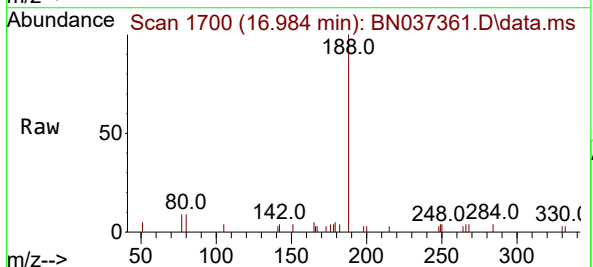
Instrument :
BNA_N
ClientSampleId :
PB168563BL

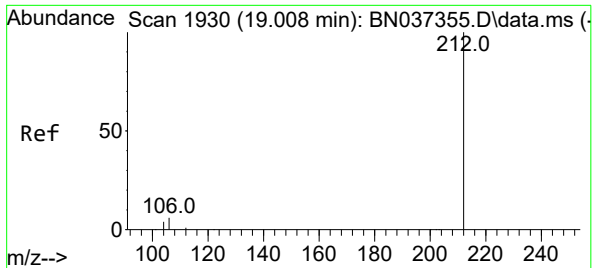
Tgt Ion:172 Resp: 3920
Ion Ratio Lower Upper
172 100
171 37.8 30.8 46.2
170 26.6 21.9 32.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.012 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:188 Resp: 4864
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.9 6.2 9.2

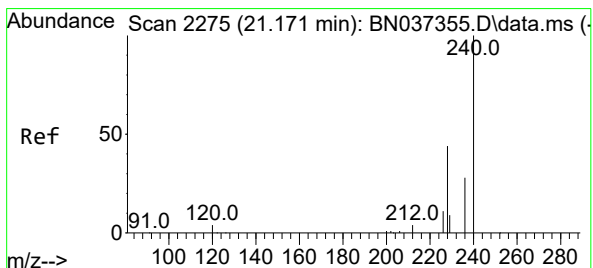
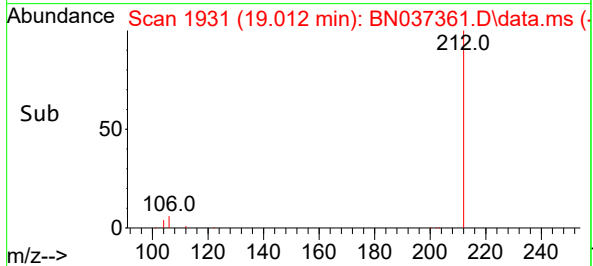
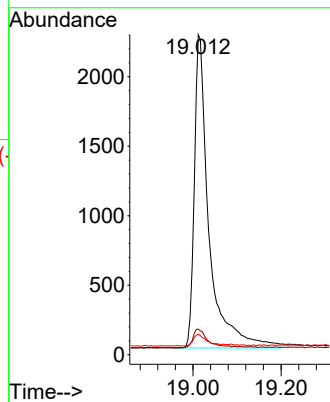
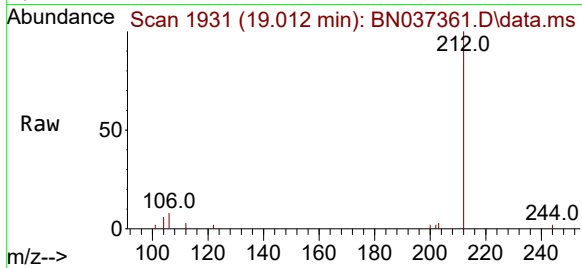




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.012 min Scan# 1931
Delta R.T. 0.004 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

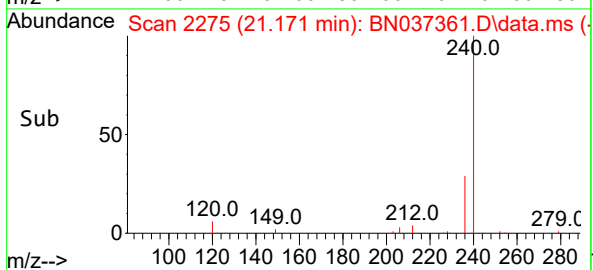
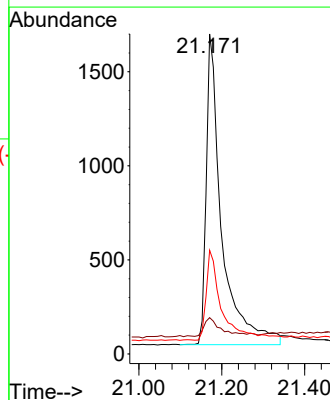
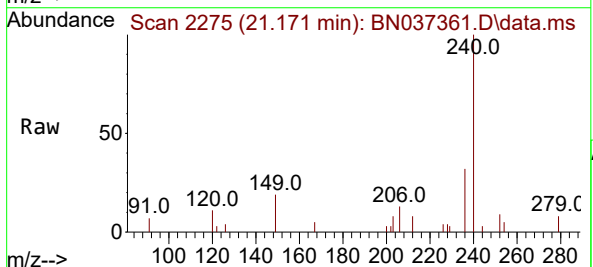
Instrument :
BNA_N
ClientSampleId :
PB168563BL

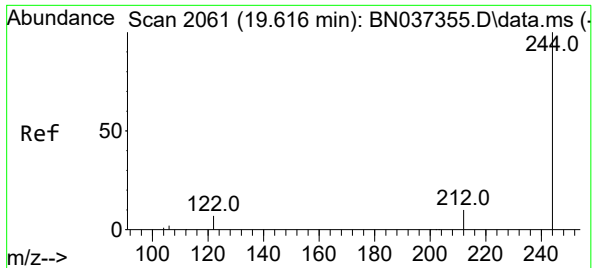
Tgt Ion	Ratio	Lower	Upper
212	100		
106	5.8	3.0	4.4#
104	3.4	2.0	3.0#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.5	11.3#
236	32.4	24.9	37.3

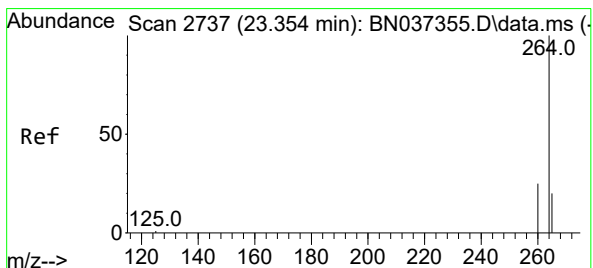
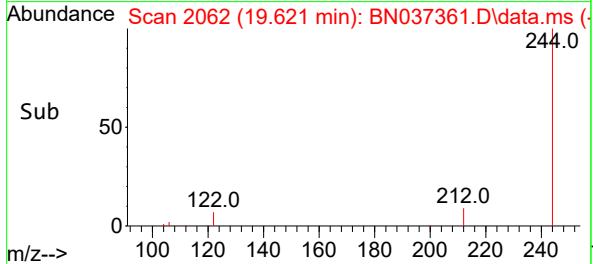
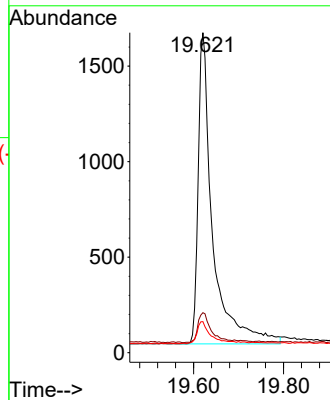
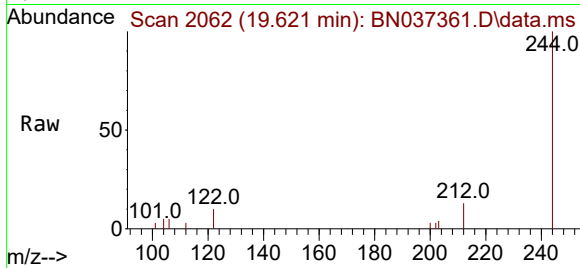




#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.621 min Scan# 2062
Delta R.T. 0.004 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

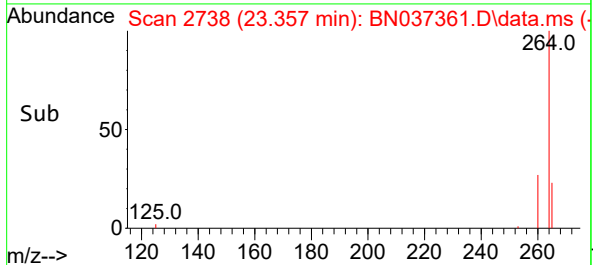
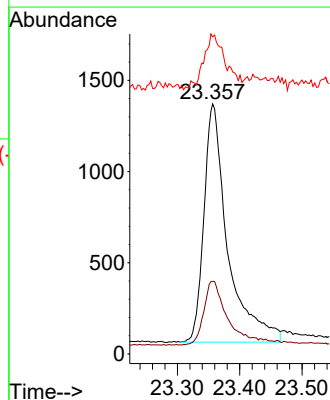
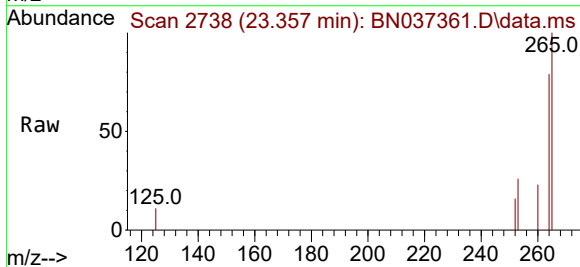
Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion:244 Resp: 3648
Ion Ratio Lower Upper
244 100
212 12.5 11.1 16.7
122 9.7 7.2 10.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. 0.003 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:264 Resp: 3457
Ion Ratio Lower Upper
264 100
260 29.0 21.4 32.2
265 126.8 71.4 107.0#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB168563BS	SDG No.:	Q2377
Lab Sample ID:	PB168563BS	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
BN037363.D	1	06/20/25 12:03	06/20/25 23:28	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.32		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.49		30 (20) - 150 (139)	123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 (54) - 150 (157)	86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		30 (27) - 130 (154)	92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 (30) - 130 (155)	97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		30 (54) - 130 (175)	98%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.568			
1146-65-2	Naphthalene-d8	4200	10.34			
15067-26-2	Acenaphthene-d10	2590	14.213			
1517-22-2	Phenanthrene-d10	4830	16.971			
1719-03-5	Chrysene-d12	3880	21.171			
1520-96-3	Perylene-d12	2750	23.351			

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\BN062125\
 Data File : BN037363.D
 Acq On : 20 Jun 2025 23:28
 Operator : RC/JU
 Sample : PB168563BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168563BS

Quant Time: Jun 20 23:54:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

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

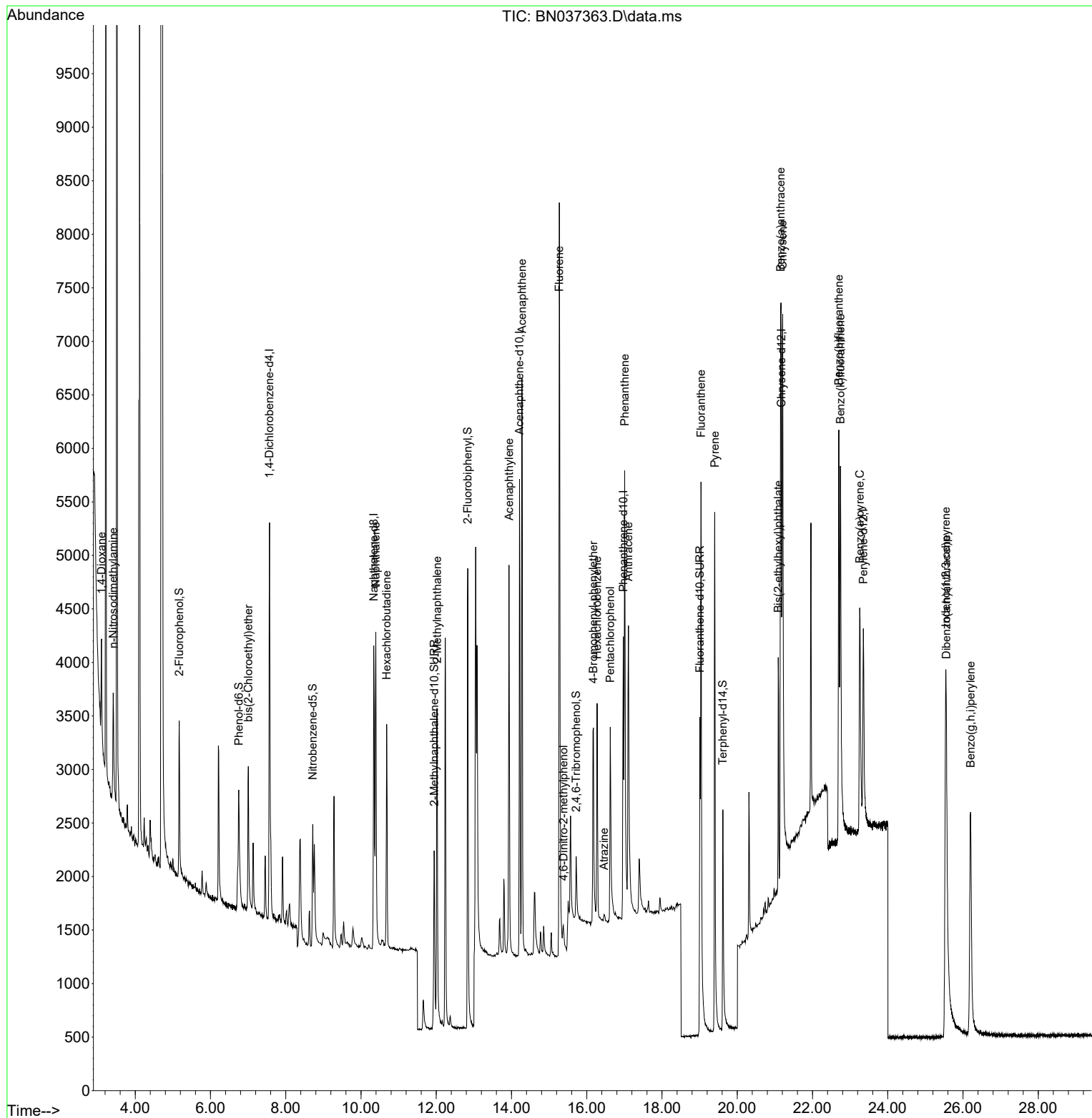
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1960	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4204	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2586	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4830	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3875	0.400	ng	0.00
35) Perylene-d12	23.351	264	2749	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1356	0.346	ng	0.00
5) Phenol-d6	6.752	99	1369	0.339	ng	0.00
8) Nitrobenzene-d5	8.717	82	1246	0.367	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	3338	0.490	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	509	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4401	0.387	ng	0.00
27) Fluoranthene-d10	19.007	212	4783	0.345	ng	0.00
31) Terphenyl-d14	19.616	244	3479	0.394	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	631	0.317	ng	# 32
3) n-Nitrosodimethylamine	3.415	42	717	0.392	ng	# 82
6) bis(2-Chloroethyl)ether	7.004	93	1334	0.373	ng	97
9) Naphthalene	10.394	128	4124	0.372	ng	# 90
10) Hexachlorobutadiene	10.682	225	1728	0.394	ng	# 99
12) 2-Methylnaphthalene	12.021	142	2530	0.327	ng	94
16) Acenaphthylene	13.935	152	4145	0.381	ng	98
17) Acenaphthene	14.277	154	2614	0.365	ng	99
18) Fluorene	15.271	166	3566	0.355	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	387	0.333	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	1258	0.366	ng	98
22) Hexachlorobenzene	16.276	284	1521	0.406	ng	99
23) Atrazine	16.462	200	89	0.032	ng	# 63
24) Pentachlorophenol	16.624	266	1322	0.709	ng	95
25) Phenanthrene	17.009	178	5063	0.362	ng	99
26) Anthracene	17.108	178	4541	0.352	ng	98
28) Fluoranthene	19.035	202	6071	0.343	ng	# 99
30) Pyrene	19.402	202	5679	0.361	ng	99
32) Benzo(a)anthracene	21.153	228	4660	0.366	ng	99
33) Chrysene	21.206	228	6398	0.414	ng	98
34) Bis(2-ethylhexyl)phtha...	21.090	149	1970	0.377	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.541	276	6014	0.488	ng	# 92
37) Benzo(b)fluoranthene	22.699	252	5246	0.519	ng	# 98
38) Benzo(k)fluoranthene	22.743	252	5910	0.539	ng	99
39) Benzo(a)pyrene	23.254	252	4418	0.487	ng	# 96
40) Dibenzo(a,h)anthracene	25.555	278	4975	0.537	ng	95
41) Benzo(g,h,i)perylene	26.201	276	5107	0.464	ng	# 98

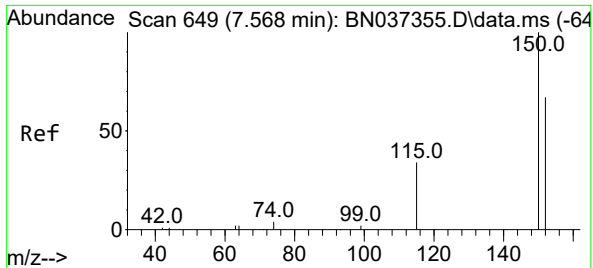
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037363.D
Acq On : 20 Jun 2025 23:28
Operator : RC/JU
Sample : PB168563BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BS

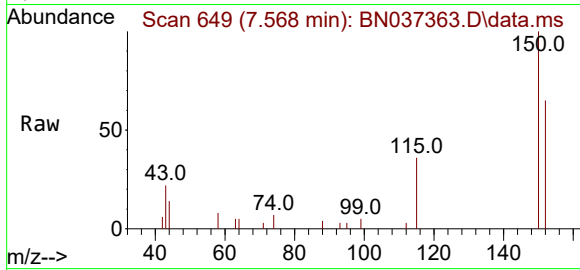
Quant Time: Jun 20 23:54:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



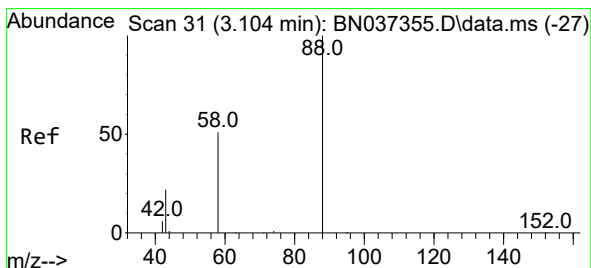
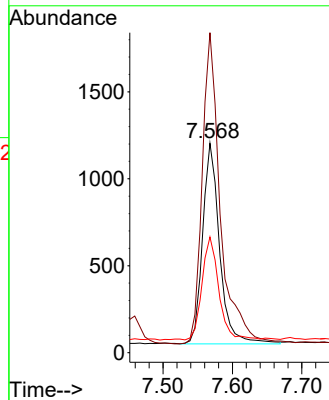
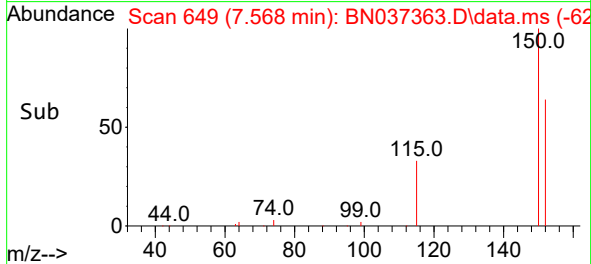


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.568 min Scan# 649
 Delta R.T. -0.000 min
 Lab File: BN037363.D
 Acq: 20 Jun 2025 23:28

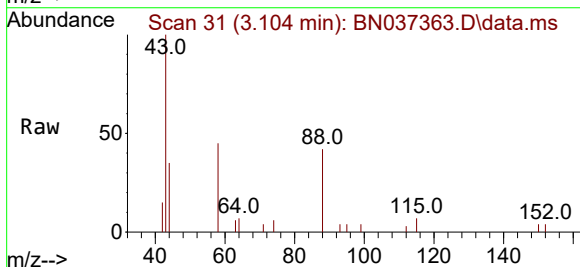
Instrument :
 BNA_N
 ClientSampleId :
 PB168563BS



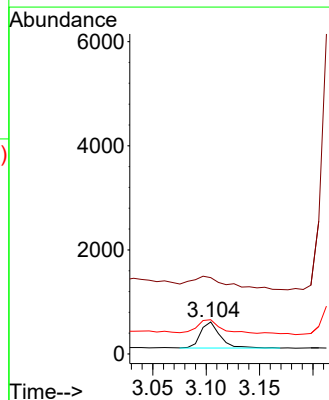
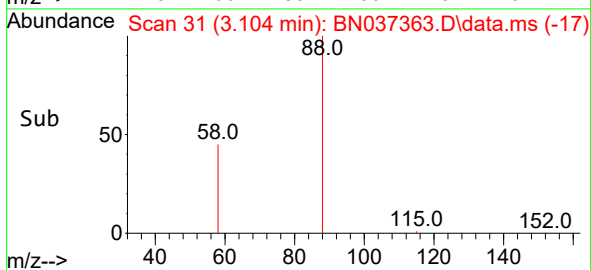
Tgt Ion:152 Resp: 1960
 Ion Ratio Lower Upper
 152 100
 150 152.8 112.7 169.1
 115 55.2 45.9 68.9



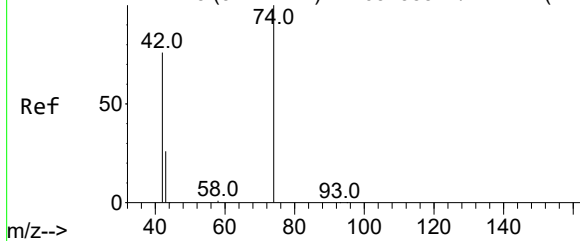
#2
 1,4-Dioxane
 Concen: 0.317 ng
 RT: 3.104 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037363.D
 Acq: 20 Jun 2025 23:28



Tgt Ion: 88 Resp: 631
 Ion Ratio Lower Upper
 88 100
 43 96.4 21.0 31.6#
 58 68.0 38.0 57.0#



Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



#3

n-Nitrosodimethylamine

Concen: 0.392 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

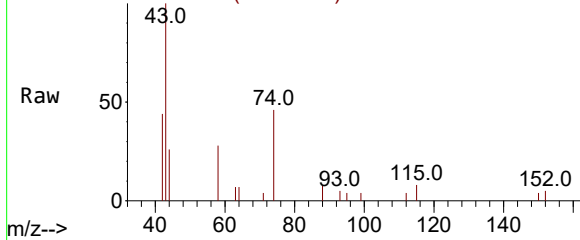
ClientSampleId :

PB168563BS

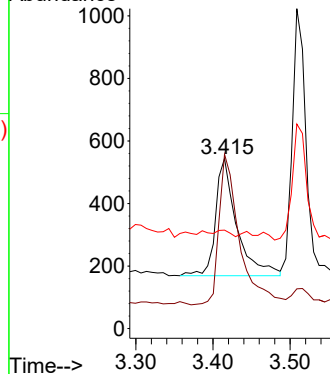
Tgt Ion: 42 Resp: 717

Ion	Ratio	Lower	Upper
42	100		
74	124.4	84.3	126.5
44	3.2	5.0	7.4

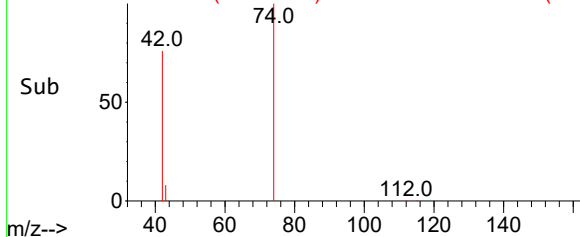
Abundance Scan 74 (3.415 min): BN037363.D\data.ms



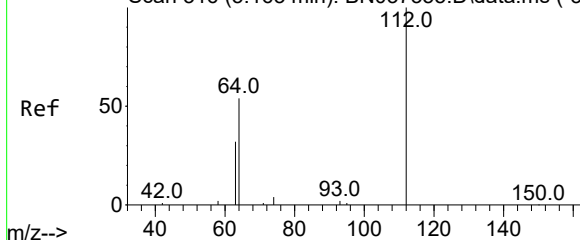
Abundance



Abundance Scan 74 (3.415 min): BN037363.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.346 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.007 min

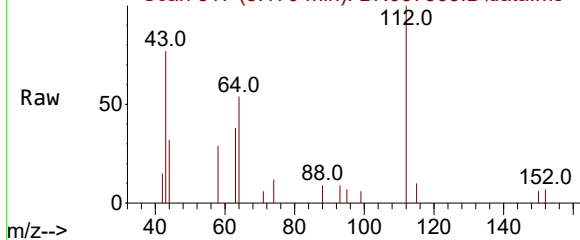
Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

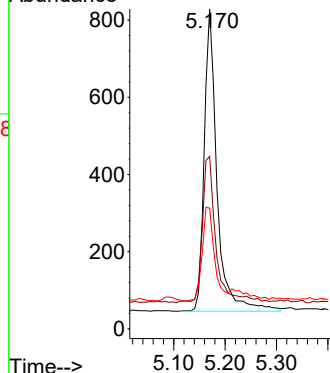
Tgt Ion: 112 Resp: 1356

Ion	Ratio	Lower	Upper
112	100		
64	51.6	38.7	58.1
63	30.4	26.4	39.6

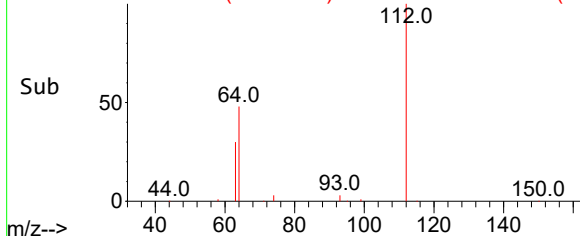
Abundance Scan 317 (5.170 min): BN037363.D\data.ms

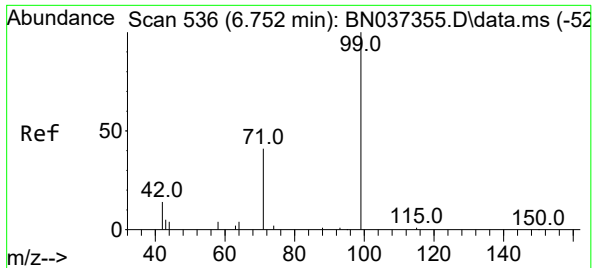


Abundance



Abundance Scan 317 (5.170 min): BN037363.D\data.ms (-28)

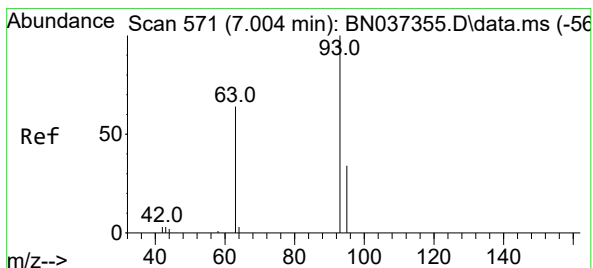
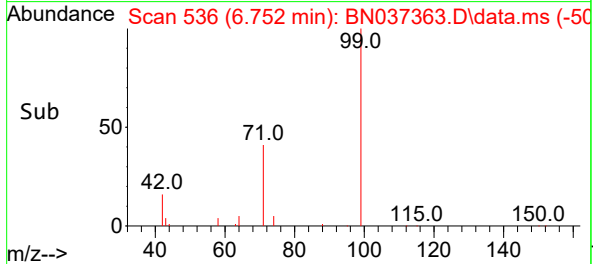
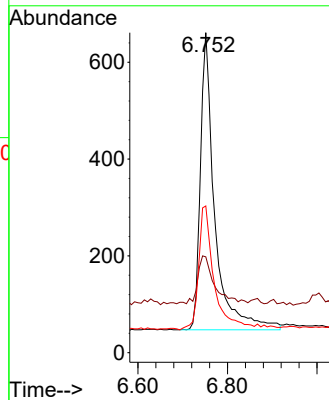
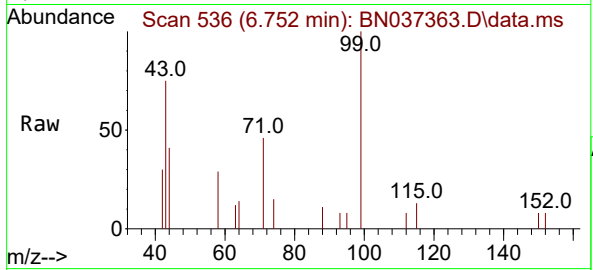




#5
Phenol-d6
Concen: 0.339 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

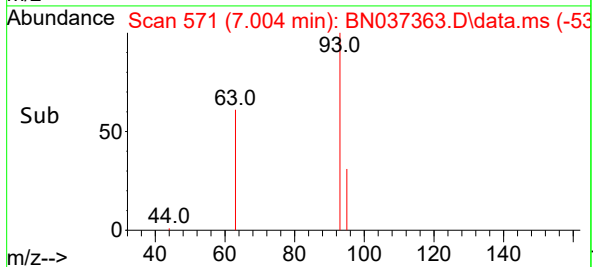
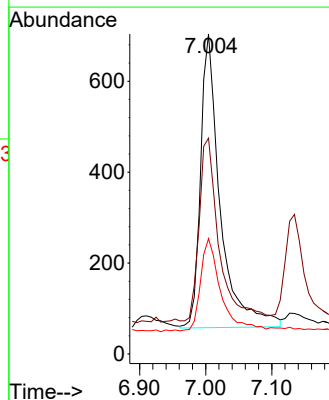
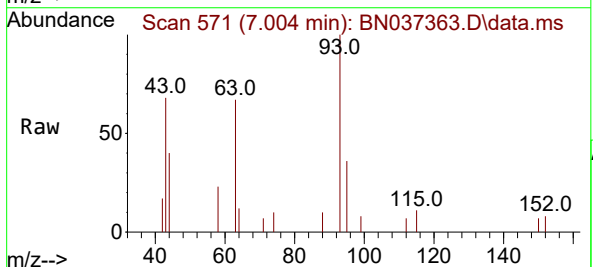
Instrument :
BNA_N
ClientSampleId :
PB168563BS

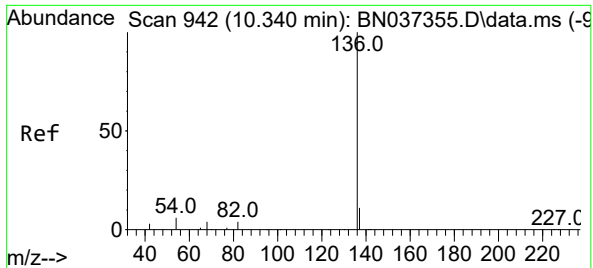
Tgt Ion: 99 Resp: 1369
Ion Ratio Lower Upper
99 100
42 19.0 19.8 29.8#
71 44.8 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.373 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion: 93 Resp: 1334
Ion Ratio Lower Upper
93 100
63 63.3 53.2 79.8
95 34.0 27.3 40.9

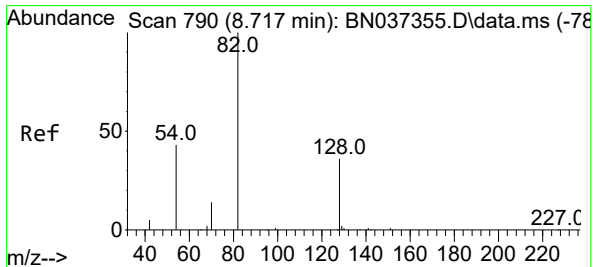
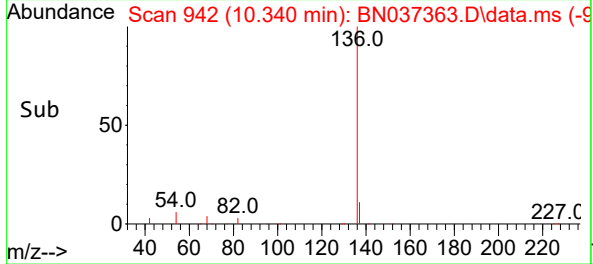
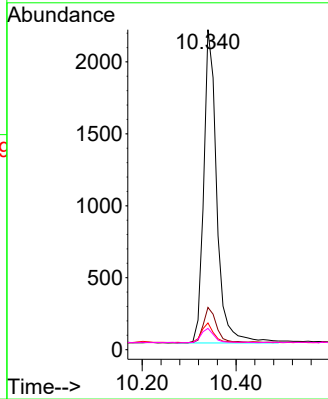
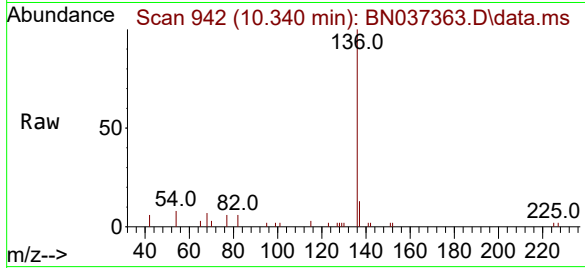




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

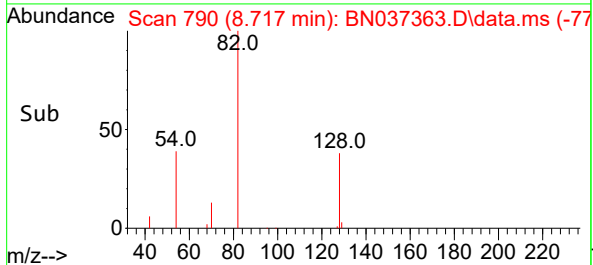
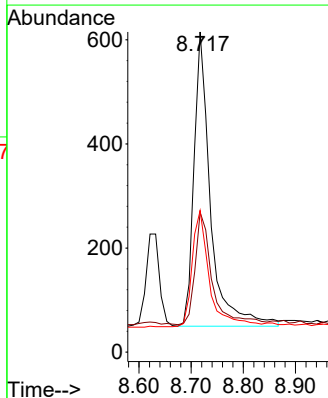
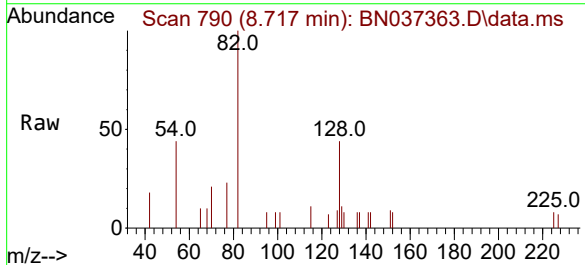
Instrument :
BNA_N
ClientSampleId :
PB168563BS

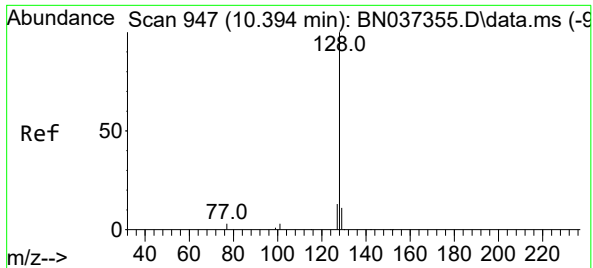
Tgt Ion:	136	Resp:	4204
Ion	Ratio	Lower	Upper
136	100		
137	13.2	12.2	18.2
54	8.4	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:	82	Resp:	1246
Ion	Ratio	Lower	Upper
82	100		
128	43.7	42.5	63.7
54	44.2	43.2	64.8

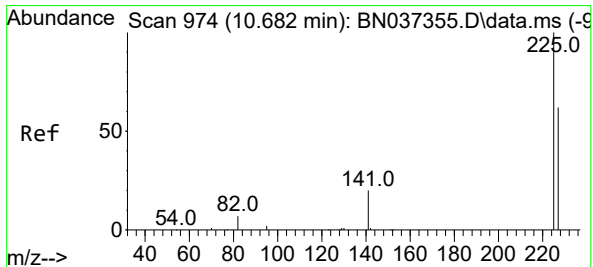
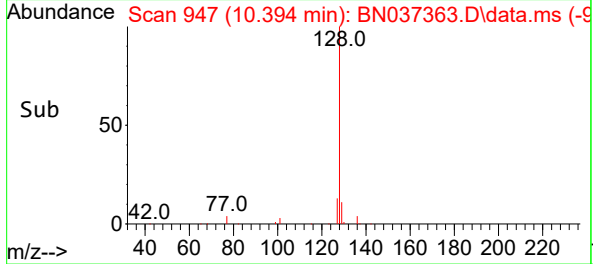
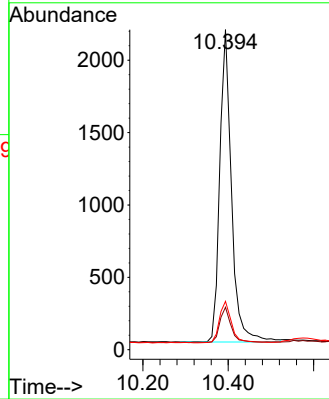
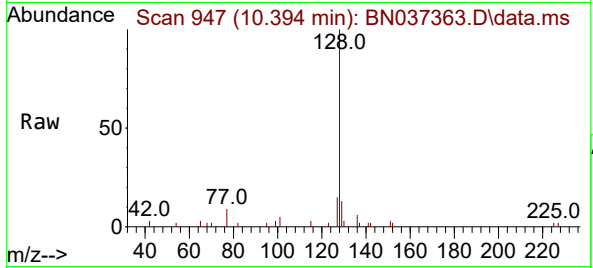




#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

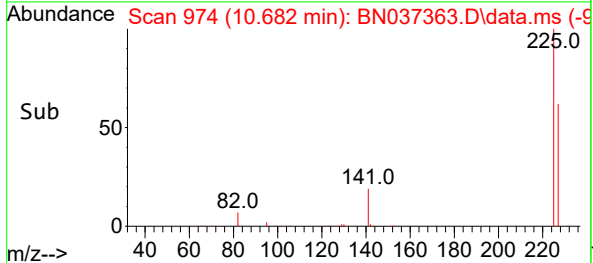
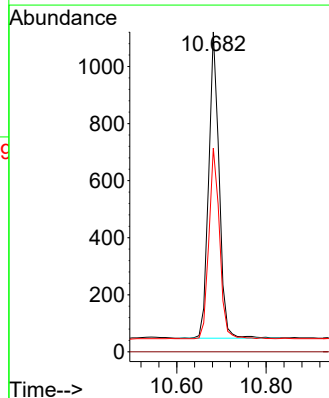
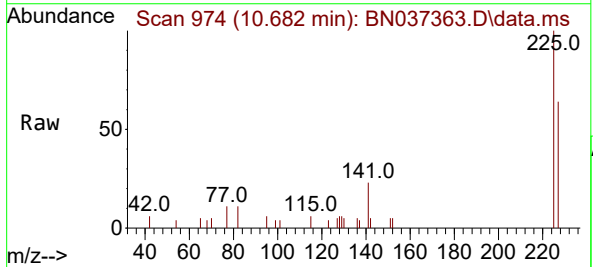
Instrument :
BNA_N
ClientSampleId :
PB168563BS

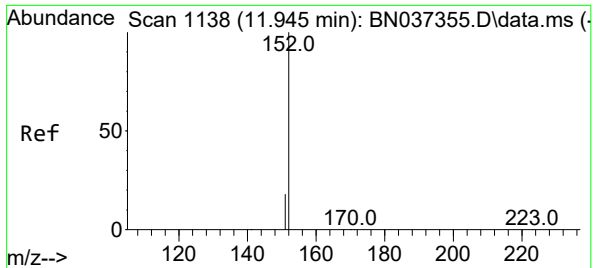
Tgt Ion:128 Resp: 4124
Ion Ratio Lower Upper
128 100
129 13.3 14.0 21.0#
127 15.1 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:225 Resp: 1728
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 50.3 75.5

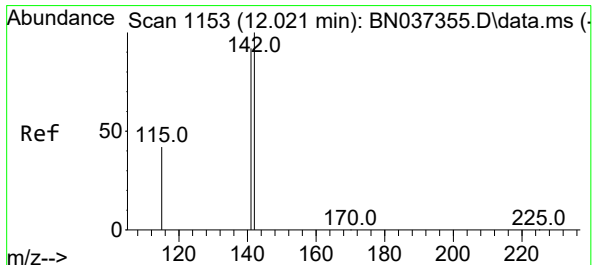
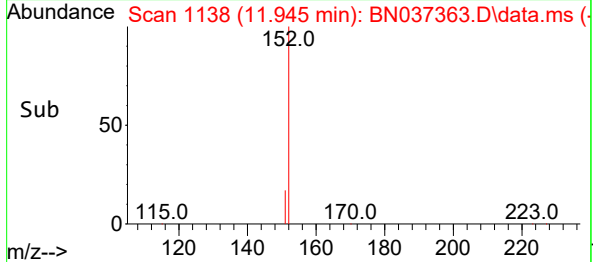
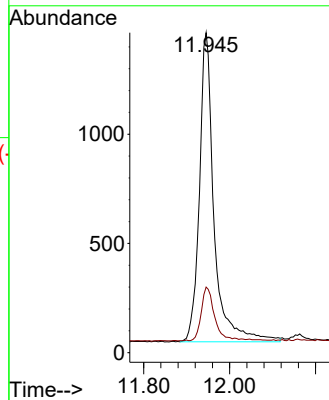
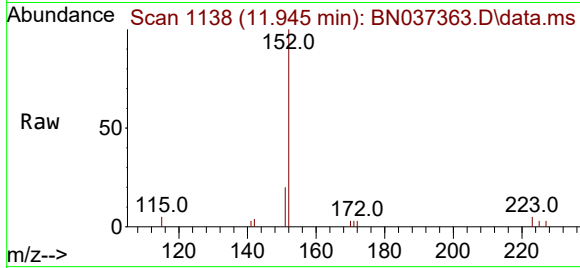




#11
2-Methylnaphthalene-d10
Concen: 0.490 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

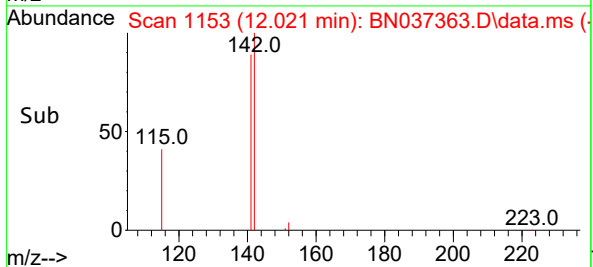
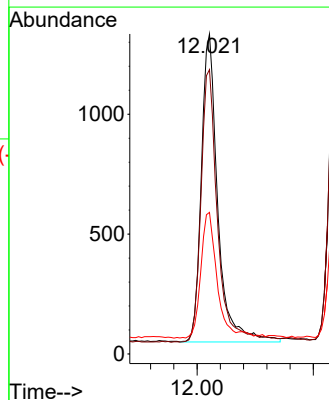
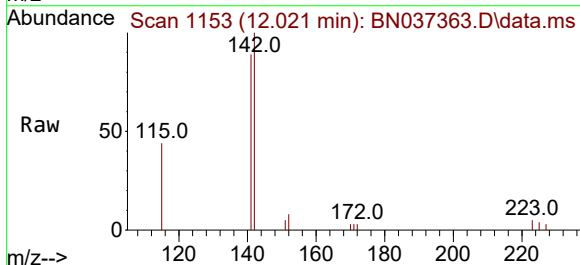
Instrument :
BNA_N
ClientSampleId :
PB168563BS

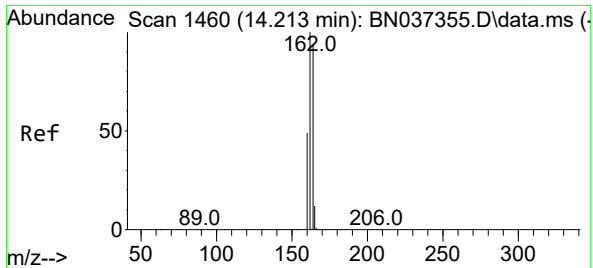
Tgt Ion:152 Resp: 3338
Ion Ratio Lower Upper
152 100
151 15.7 17.4 26.0#



#12
2-Methylnaphthalene
Concen: 0.327 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:142 Resp: 2530
Ion Ratio Lower Upper
142 100
141 88.8 70.2 105.2
115 44.3 43.0 64.4

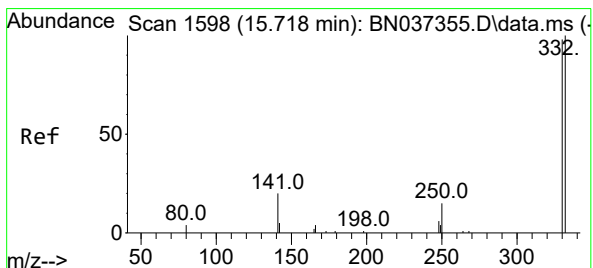
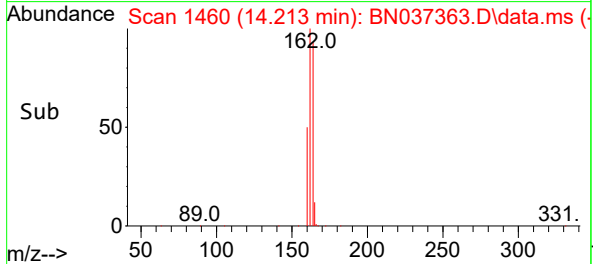
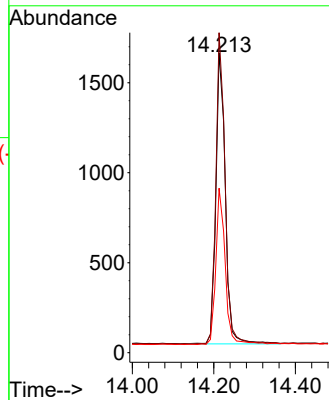
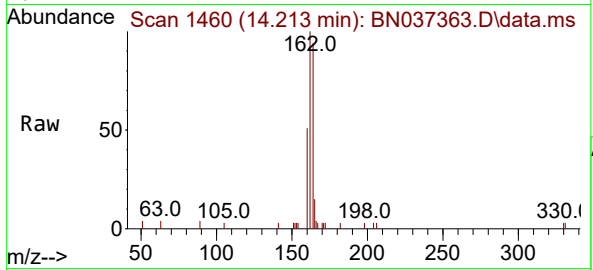




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

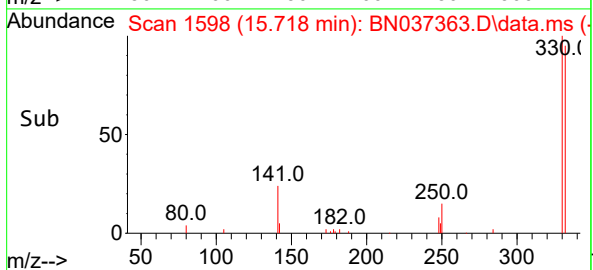
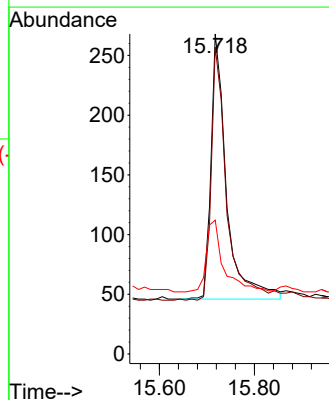
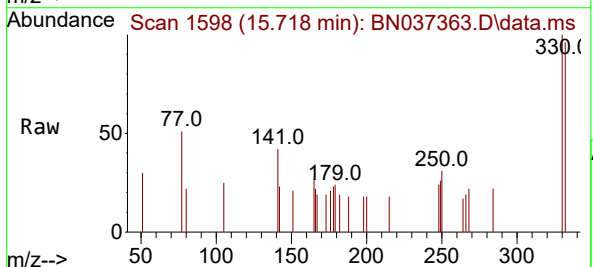
Instrument :
BNA_N
ClientSampleId :
PB168563BS

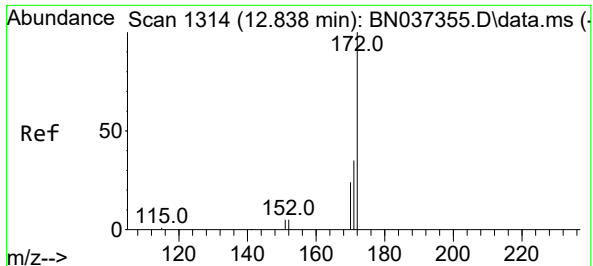
Tgt Ion:164 Resp: 2586
Ion Ratio Lower Upper
164 100
162 106.7 81.5 122.3
160 54.8 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:330 Resp: 509
Ion Ratio Lower Upper
330 100
332 94.9 78.4 117.6
141 30.1 24.4 36.6

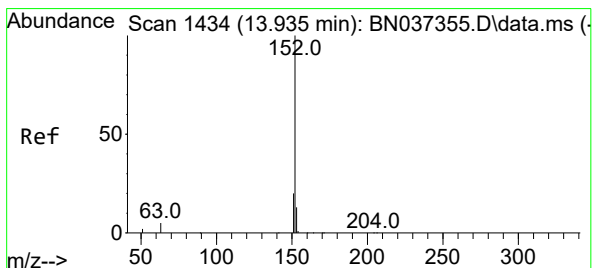
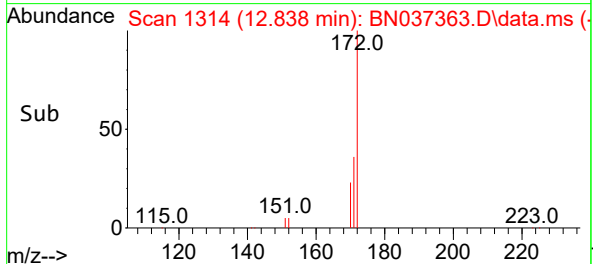
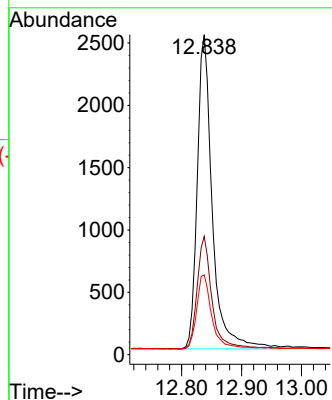
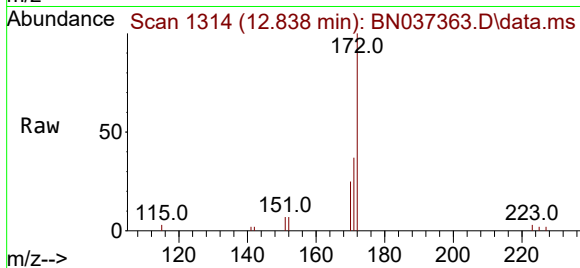




#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 12.838 min Scan# 1314
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

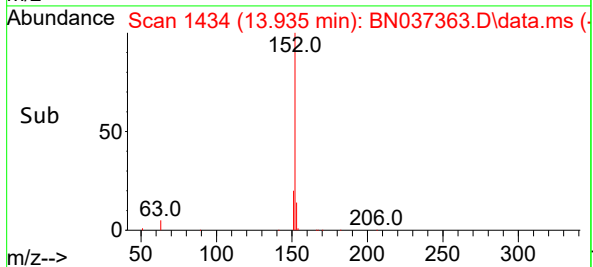
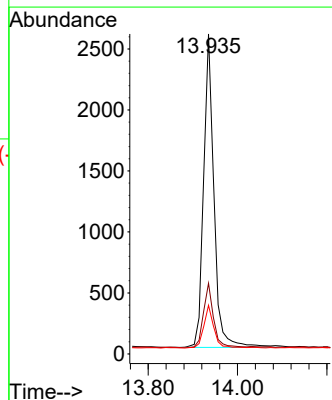
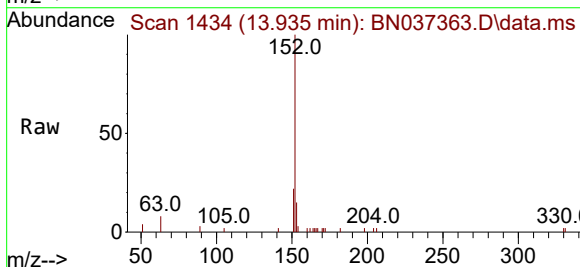
Instrument :
BNA_N
ClientSampleId :
PB168563BS

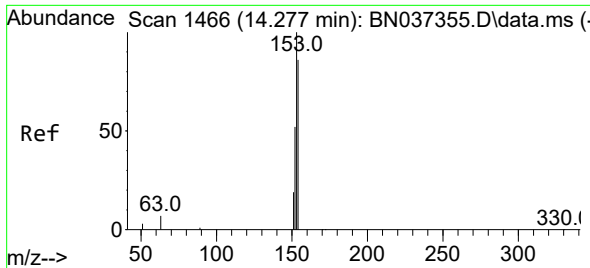
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.9	30.8	46.2
170	24.9	21.9	32.9



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.6	24.8
153	13.4	10.2	15.2

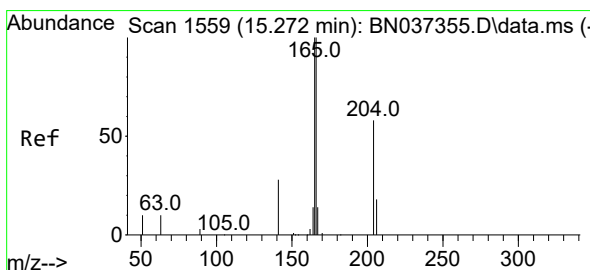
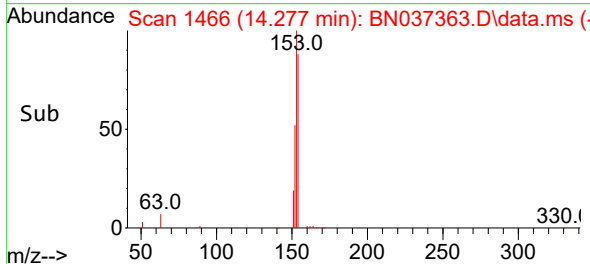
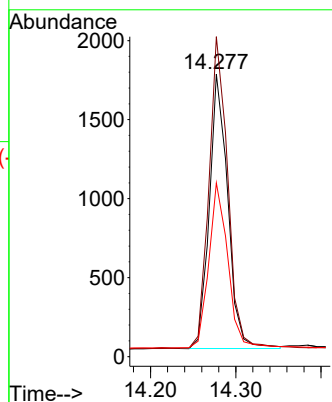
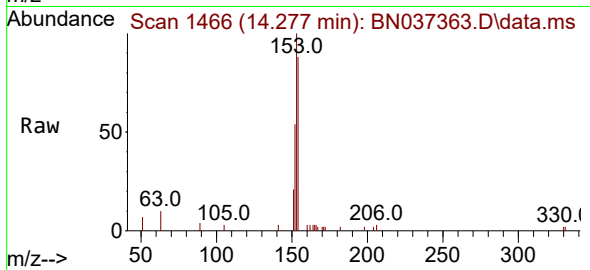




#17
Acenaphthene
Concen: 0.365 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

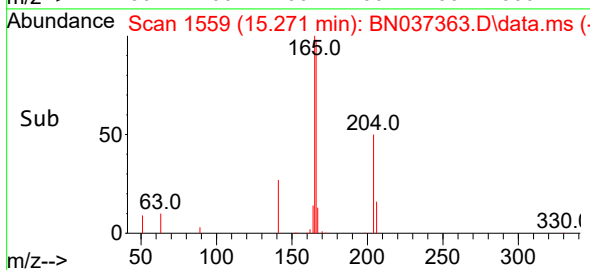
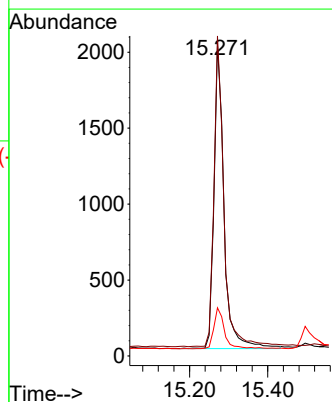
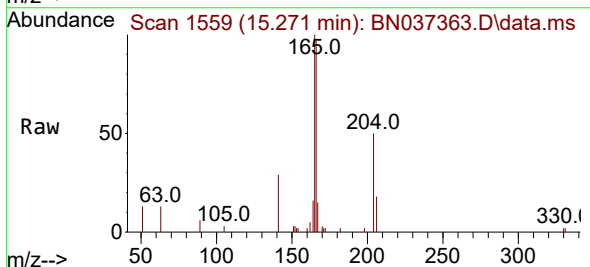
Instrument :
BNA_N
ClientSampleId :
PB168563BS

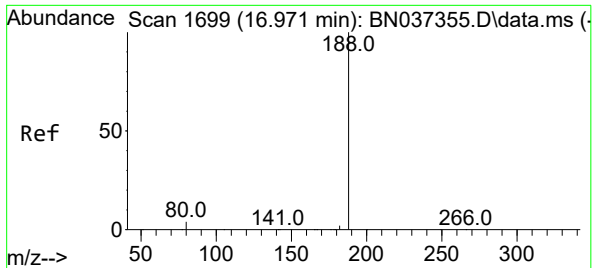
Tgt Ion	154	Resp	2614
Ion Ratio	Lower	Upper	
154	100		
153	116.8	93.1	139.7
152	62.5	48.6	73.0



#18
Fluorene
Concen: 0.355 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion	166	Resp	3566
Ion Ratio	Lower	Upper	
166	100		
165	100.6	79.5	119.3
167	14.3	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

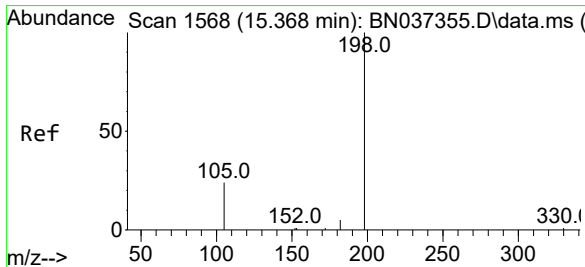
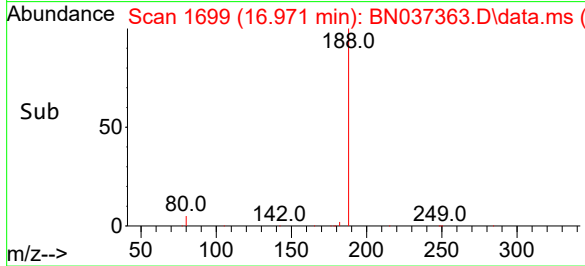
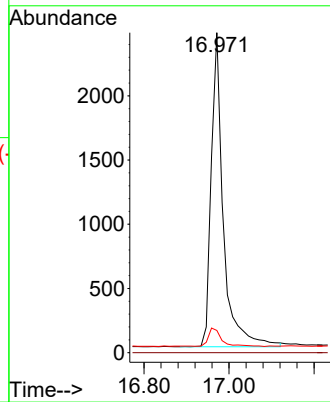
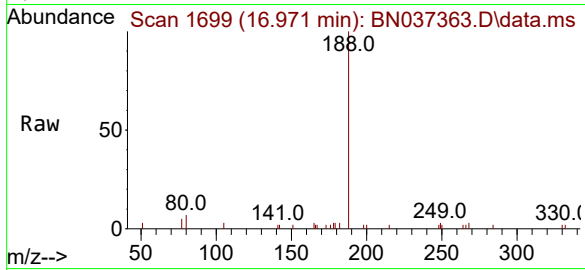
Tgt Ion:188 Resp: 4830

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.9 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.333 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

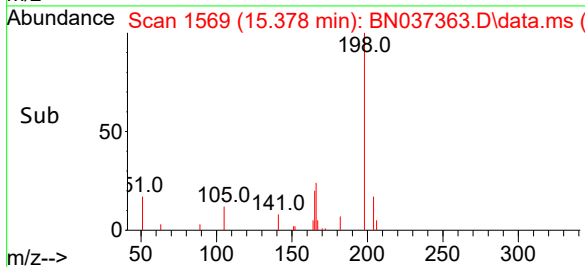
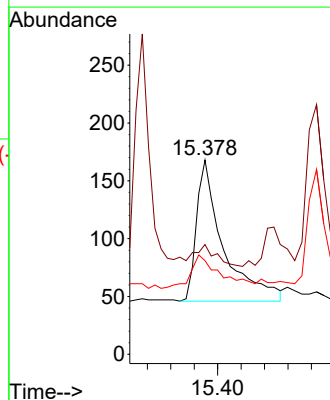
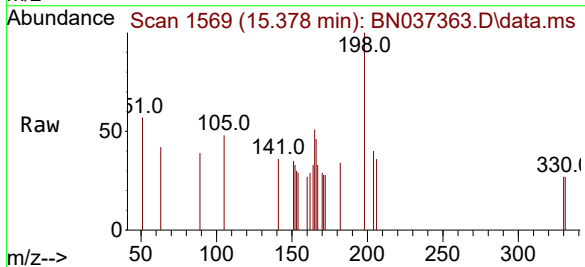
Tgt Ion:198 Resp: 387

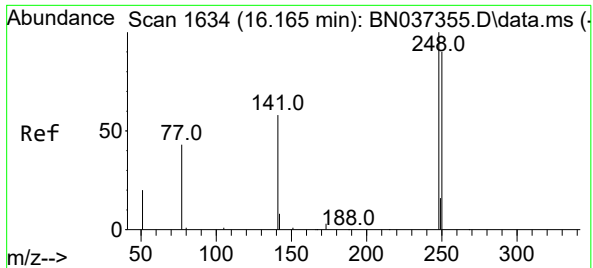
Ion Ratio Lower Upper

198 100

51 56.5 51.4 77.0

105 48.2 45.5 68.3

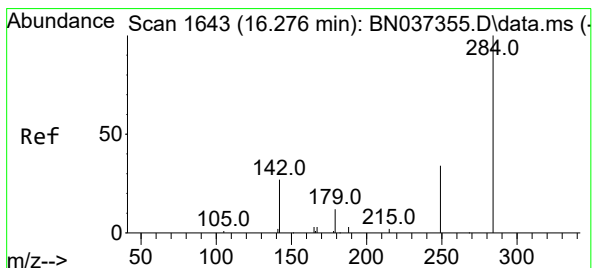
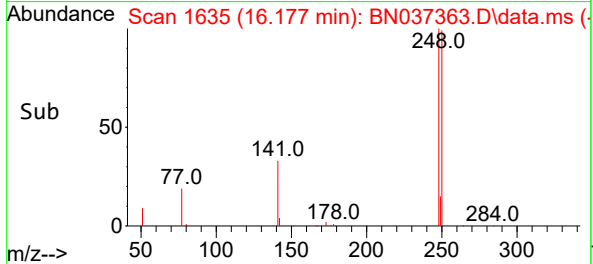
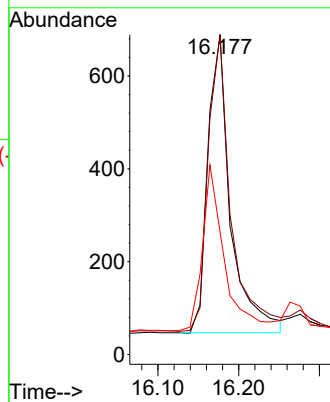
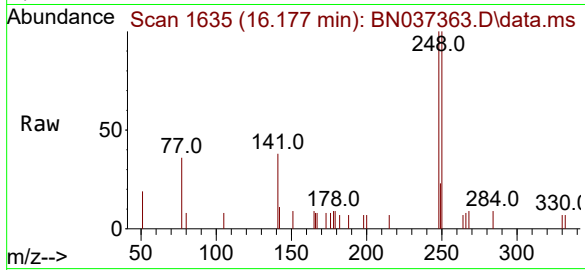




#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

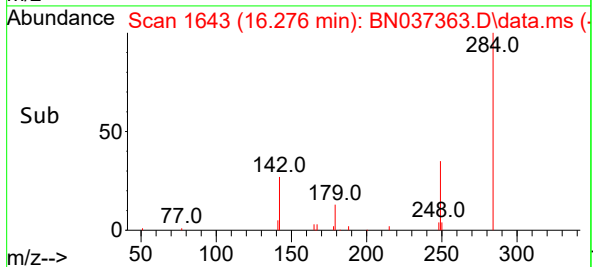
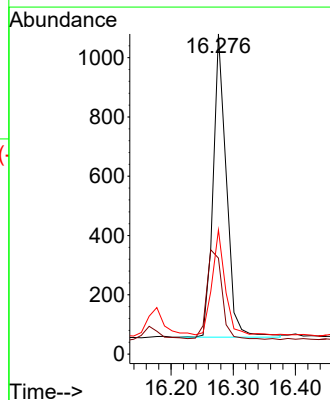
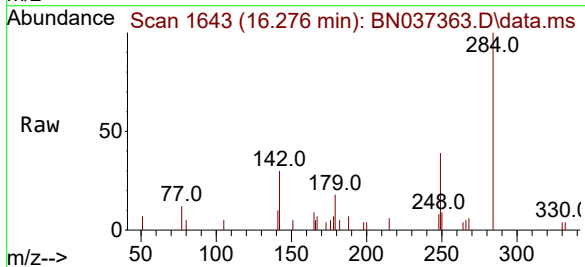
Instrument :
BNA_N
ClientSampleId :
PB168563BS

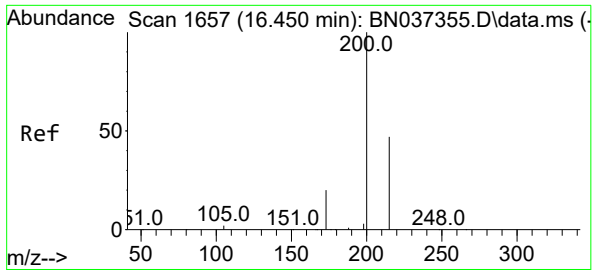
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.0	80.4	120.6
141	38.3	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	34.9	28.8	43.2

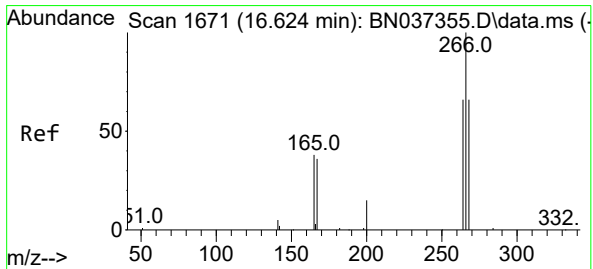
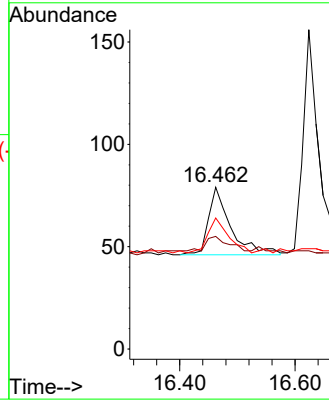
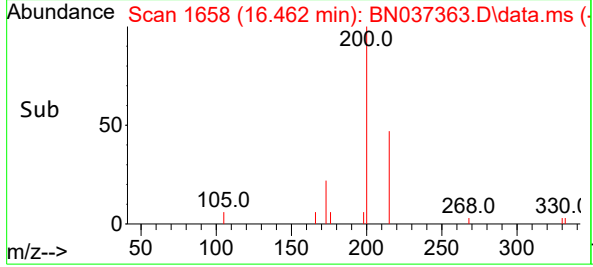
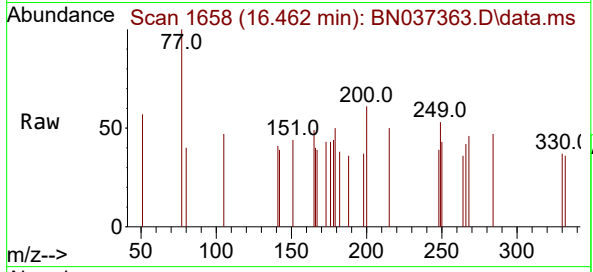




#23
Atrazine
Concen: 0.032 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.012 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

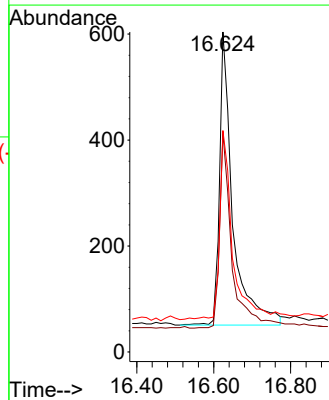
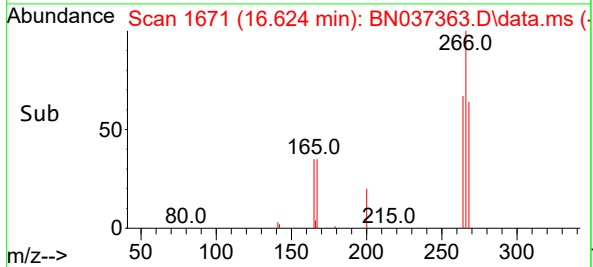
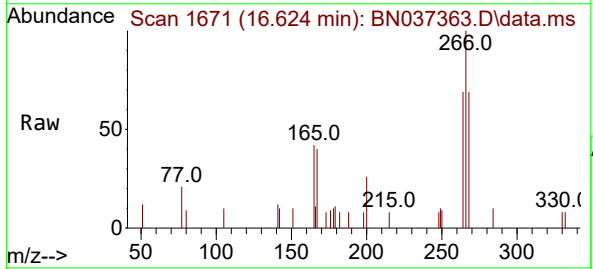
Instrument :
BNA_N
ClientSampleId :
PB168563BS

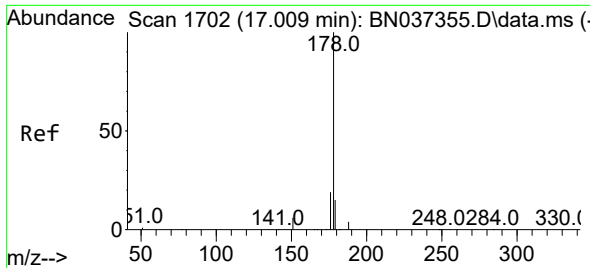
Tgt Ion:200 Resp: 89
Ion Ratio Lower Upper
200 100
173 69.6 29.2 43.8#
215 81.0 48.8 73.2#



#24
Pentachlorophenol
Concen: 0.709 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:266 Resp: 1322
Ion Ratio Lower Upper
266 100
264 62.1 50.3 75.5
268 62.8 55.3 82.9

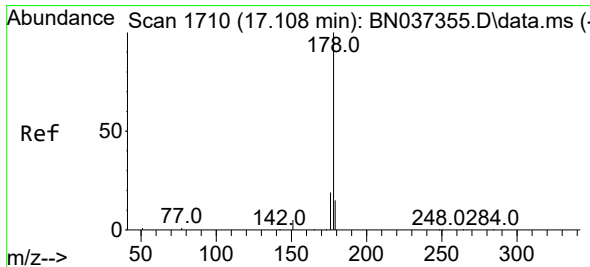
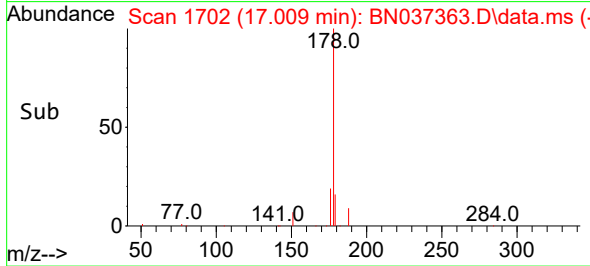
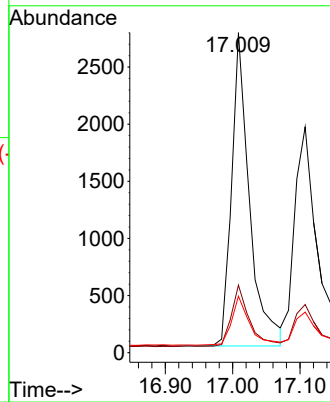
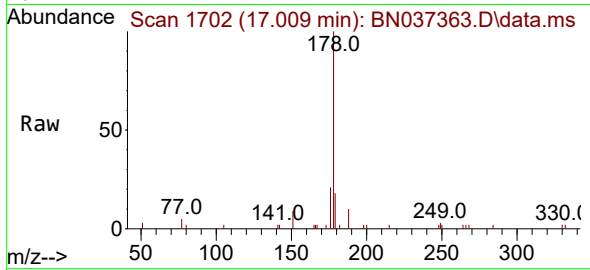




#25
Phenanthrene
Concen: 0.362 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

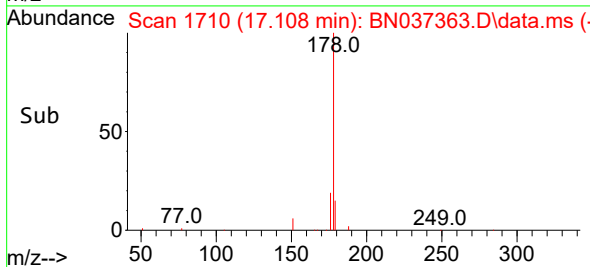
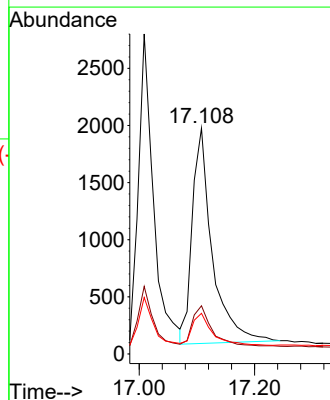
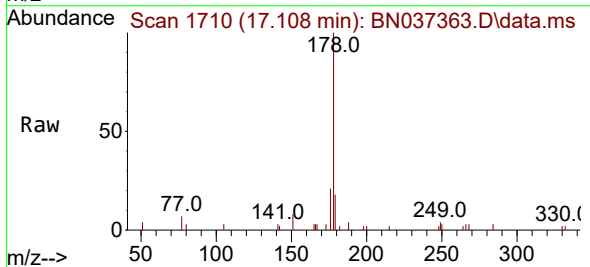
Instrument :
BNA_N
ClientSampleId :
PB168563BS

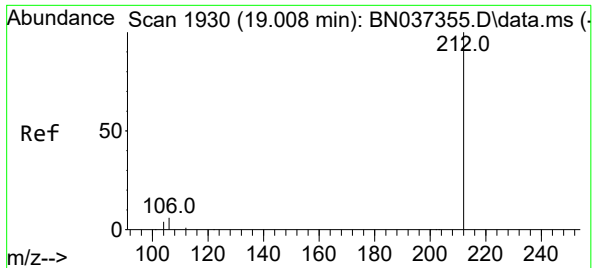
Tgt Ion:178 Resp: 5063
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.4 12.9 19.3



#26
Anthracene
Concen: 0.352 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:178 Resp: 4541
Ion Ratio Lower Upper
178 100
176 19.5 14.7 22.1
179 15.4 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.345 ng

RT: 19.007 min Scan# 1930

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

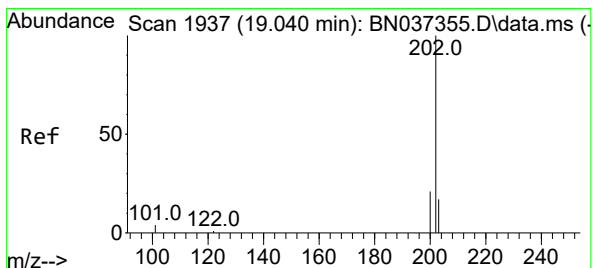
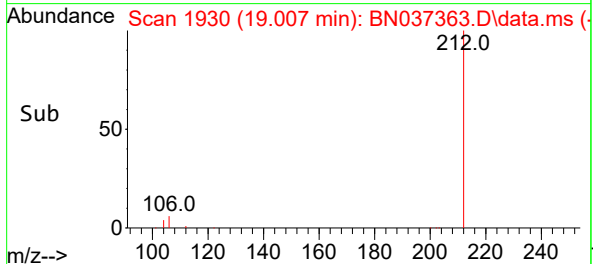
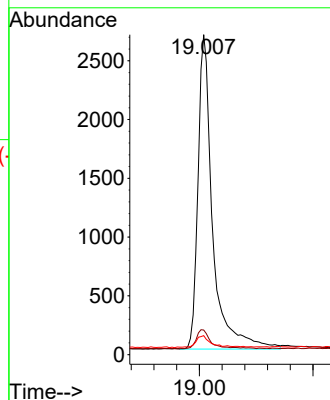
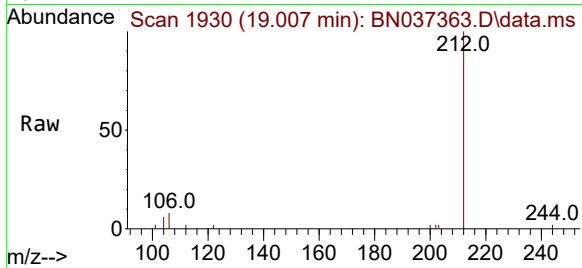
Tgt Ion:212 Resp: 4783

Ion Ratio Lower Upper

212 100

106 5.9 3.0 4.4#

104 3.7 2.0 3.0#



#28

Fluoranthene

Concen: 0.343 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

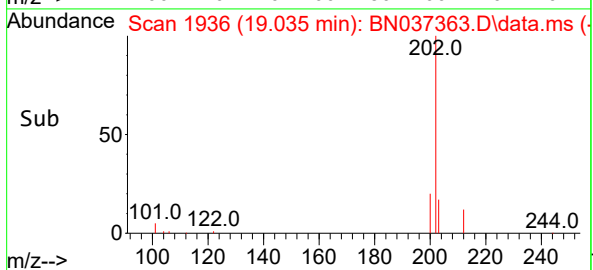
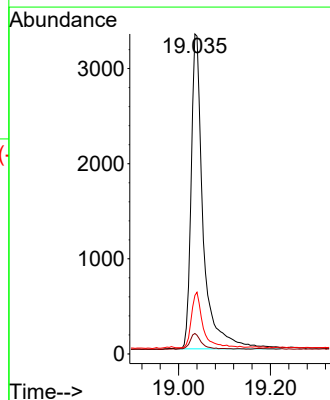
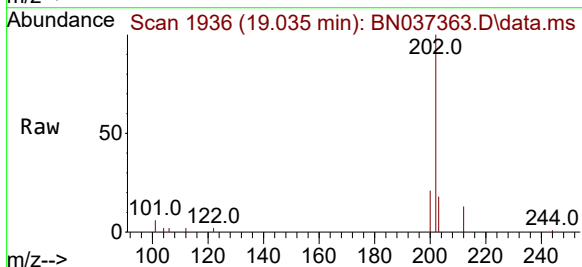
Tgt Ion:202 Resp: 6071

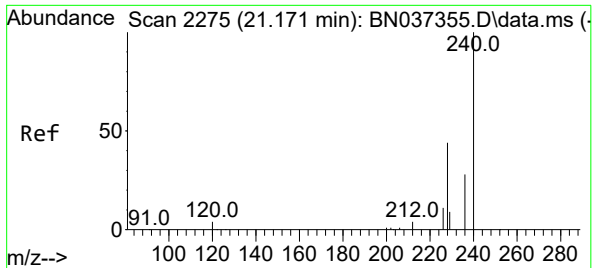
Ion Ratio Lower Upper

202 100

101 5.1 3.0 4.6#

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

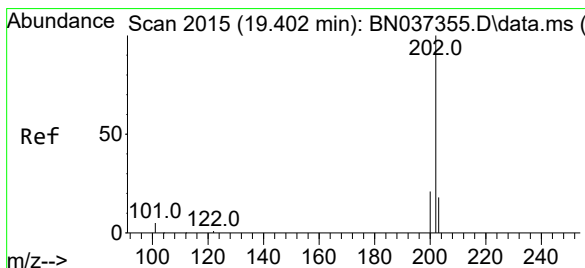
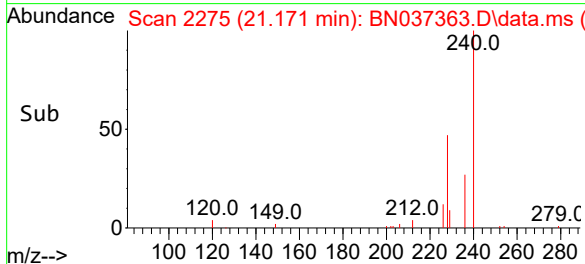
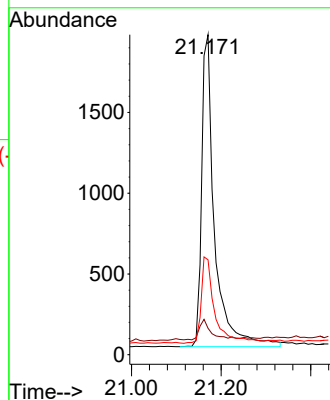
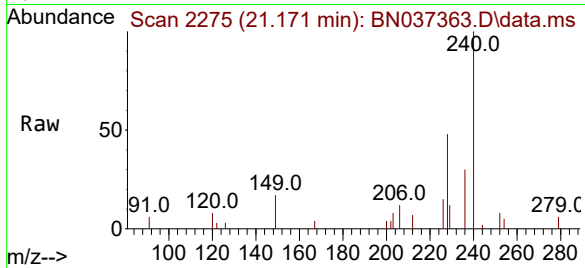
Tgt Ion:240 Resp: 3875

Ion Ratio Lower Upper

240 100

120 8.3 7.5 11.3

236 29.7 24.9 37.3



#30

Pyrene

Concen: 0.361 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

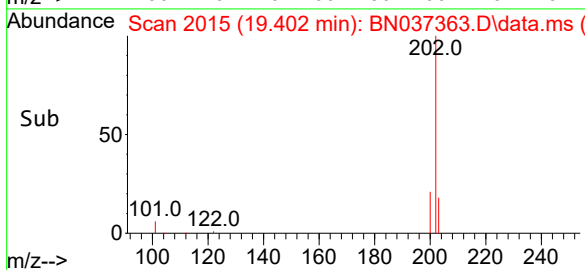
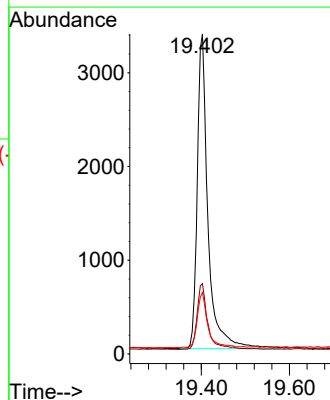
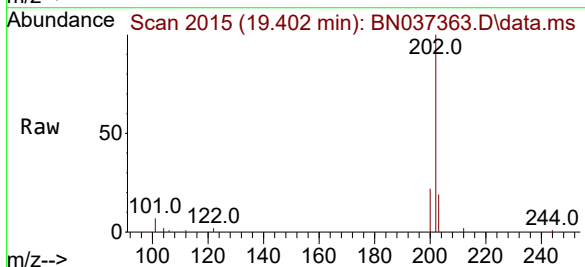
Tgt Ion:202 Resp: 5679

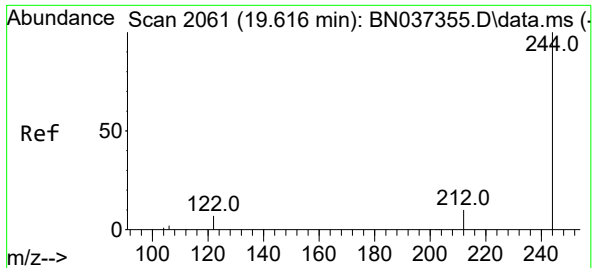
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 17.2 14.5 21.7

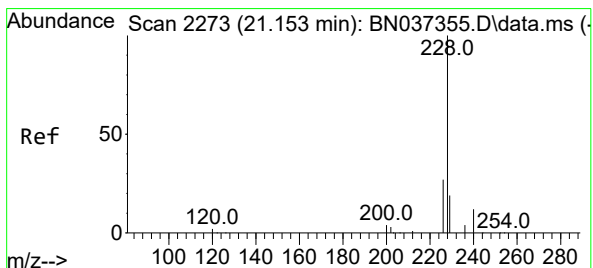
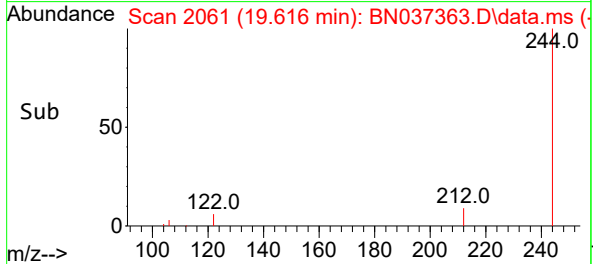
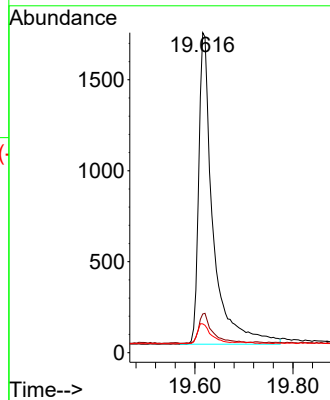
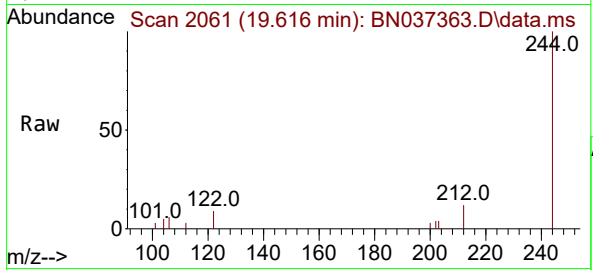




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

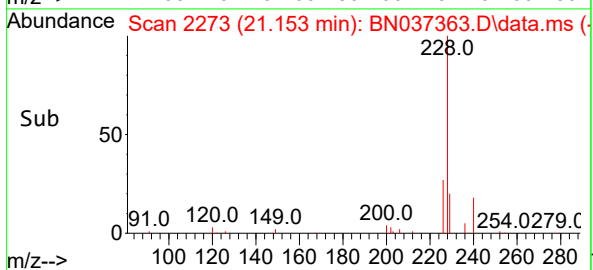
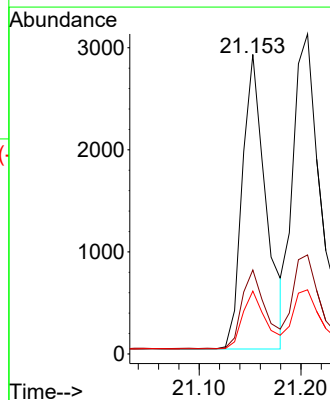
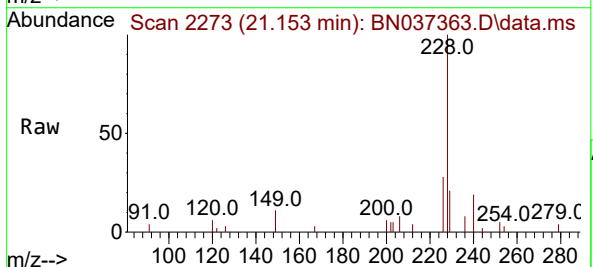
Instrument :
BNA_N
ClientSampleId :
PB168563BS

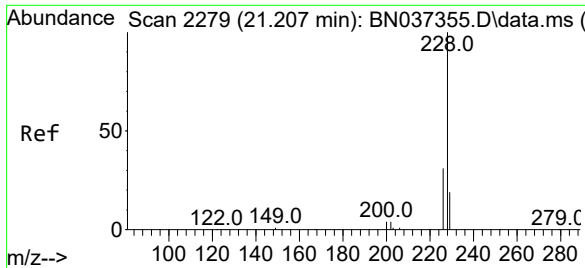
Tgt Ion:244 Resp: 3479
Ion Ratio Lower Upper
244 100
212 12.1 11.1 16.7
122 9.0 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:228 Resp: 4660
Ion Ratio Lower Upper
228 100
226 28.1 23.0 34.4
229 21.0 17.4 26.0





#33

Chrysene

Concen: 0.414 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

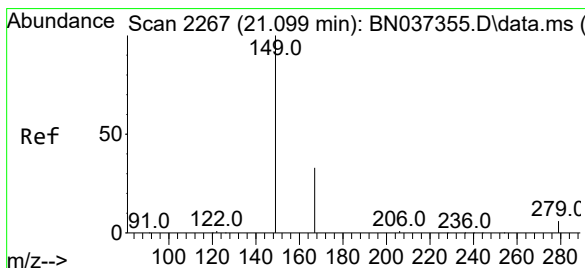
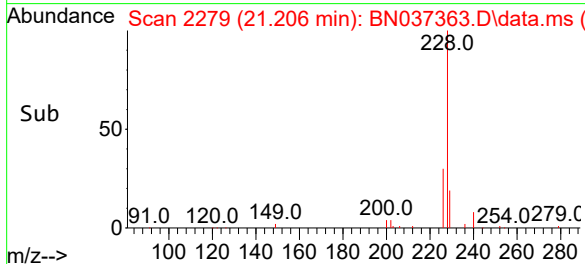
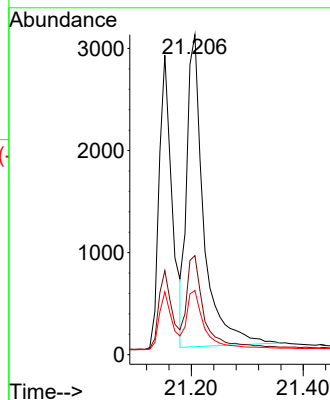
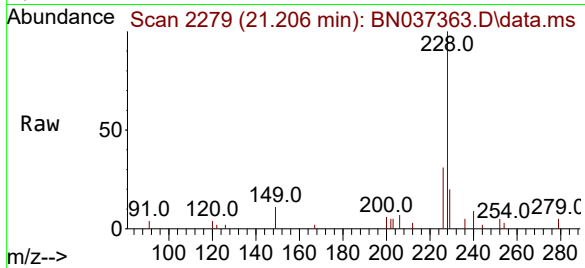
Tgt Ion:228 Resp: 6398

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.2

229 20.1 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.377 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

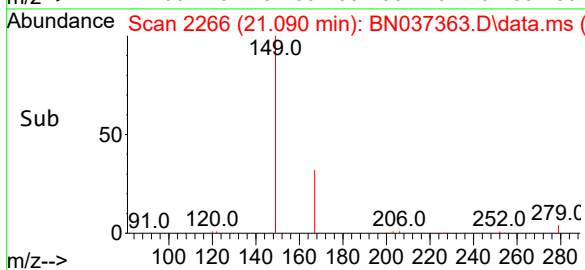
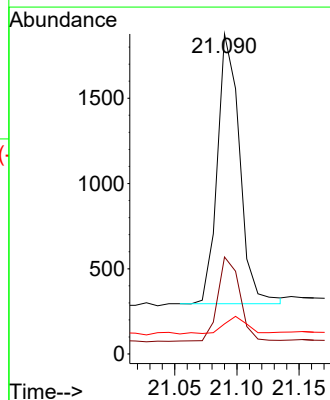
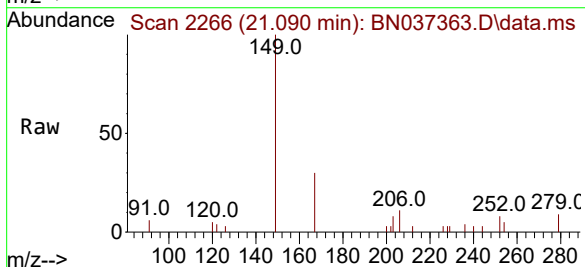
Tgt Ion:149 Resp: 1970

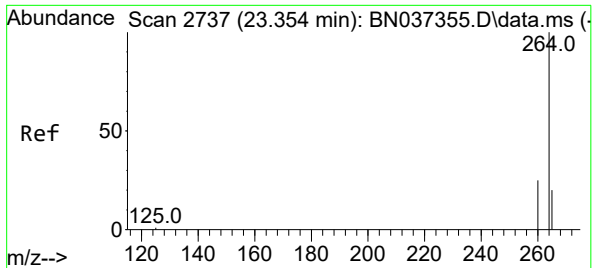
Ion Ratio Lower Upper

149 100

167 31.2 24.6 37.0

279 6.2 6.5 9.7#

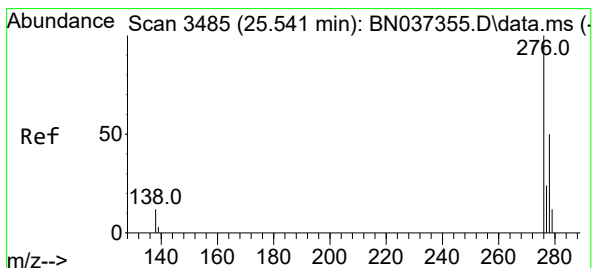
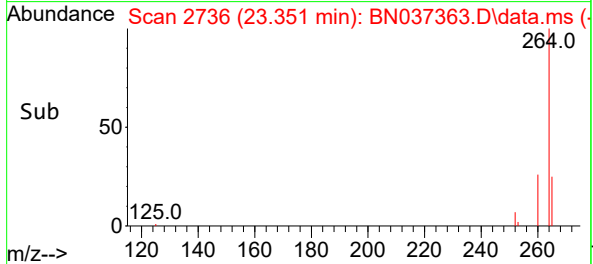
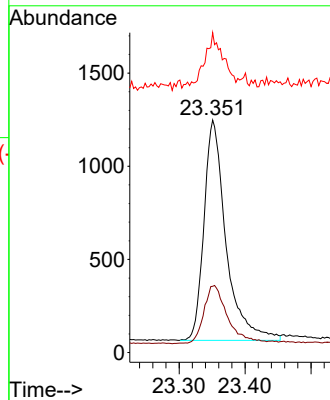
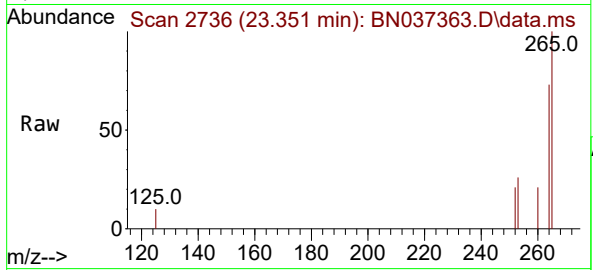




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

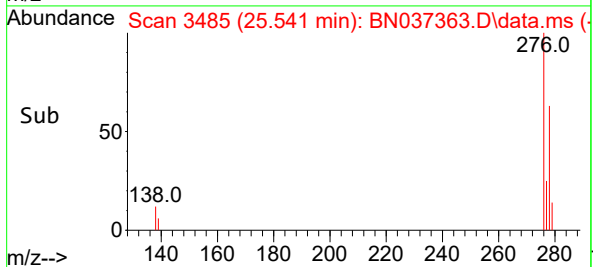
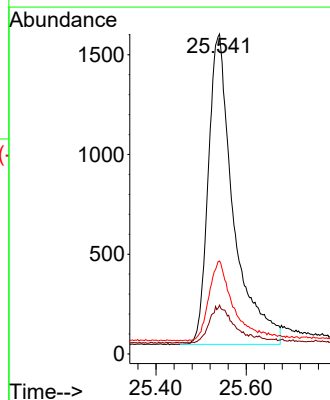
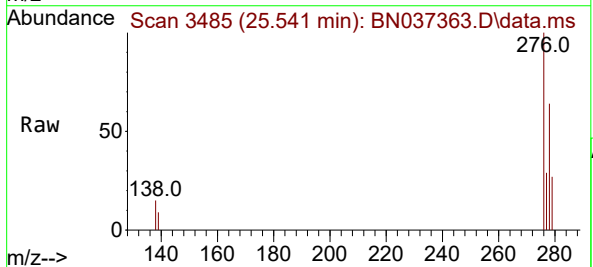
Instrument :
BNA_N
ClientSampleId :
PB168563BS

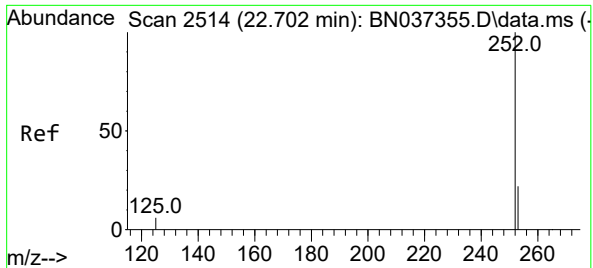
Tgt Ion:264 Resp: 2749
Ion Ratio Lower Upper
264 100
260 28.5 21.4 32.2
265 137.6 71.4 107.0#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.488 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:276 Resp: 6014
Ion Ratio Lower Upper
276 100
138 11.2 2.2 3.2#
277 24.2 17.1 25.7

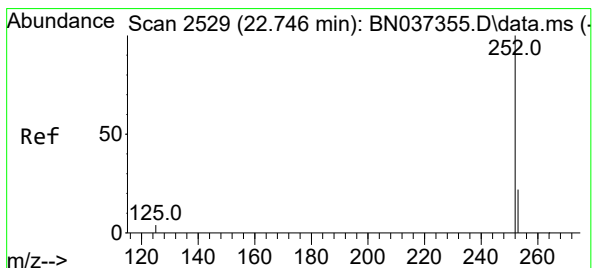
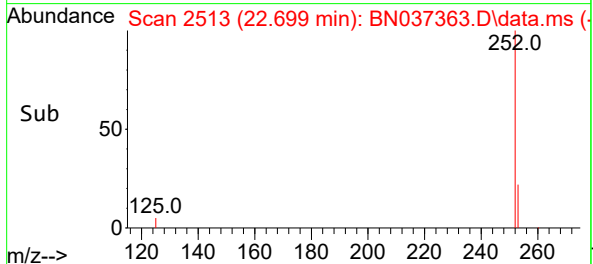
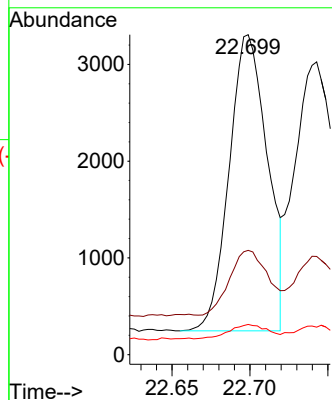
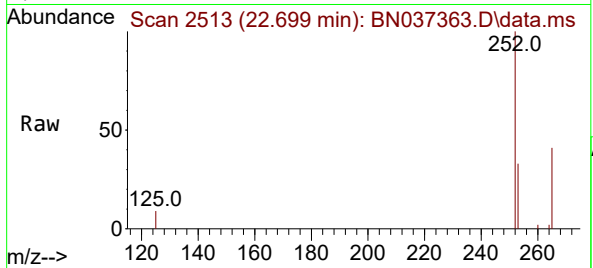




#37
Benzo(b)fluoranthene
Concen: 0.519 ng
RT: 22.699 min Scan# 2513
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

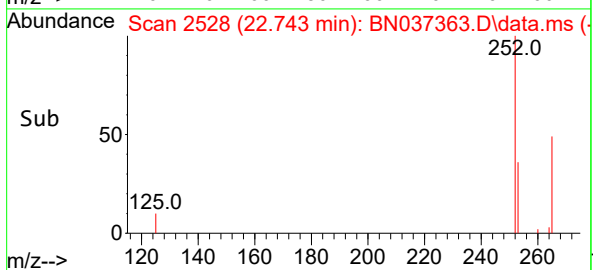
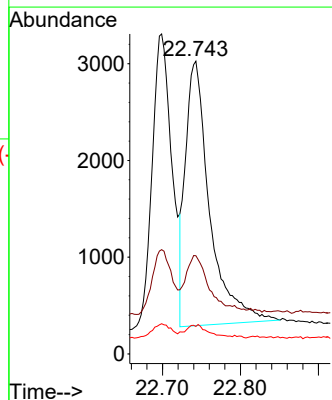
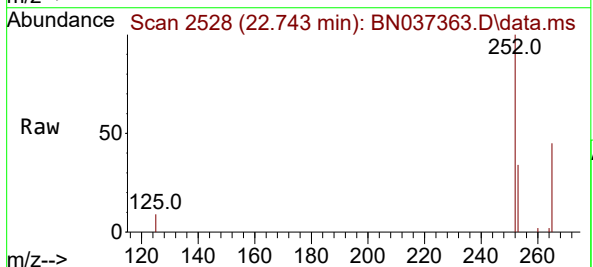
Instrument :
BNA_N
ClientSampleId :
PB168563BS

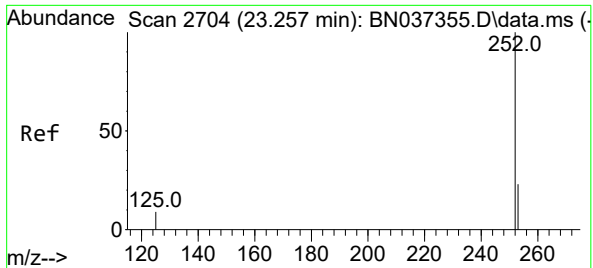
Tgt Ion:252 Resp: 5246
Ion Ratio Lower Upper
252 100
253 32.6 26.6 40.0
125 9.5 6.1 9.1#



#38
Benzo(k)fluoranthene
Concen: 0.539 ng
RT: 22.743 min Scan# 2528
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:252 Resp: 5910
Ion Ratio Lower Upper
252 100
253 33.5 26.7 40.1
125 9.4 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.487 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

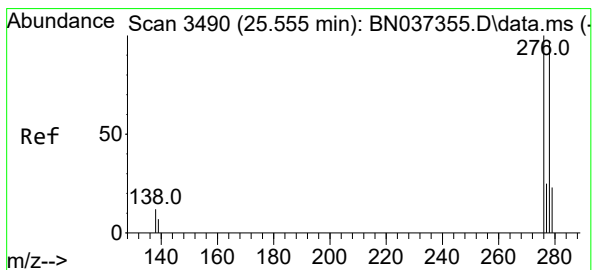
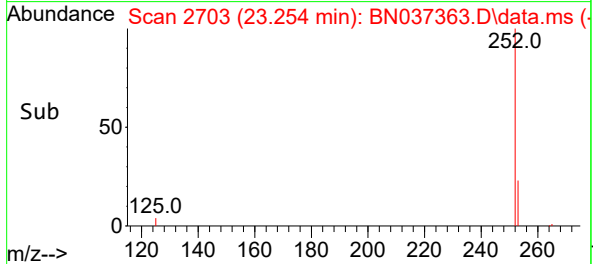
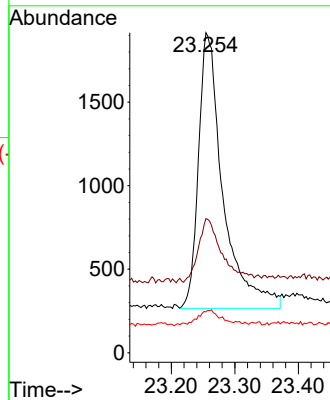
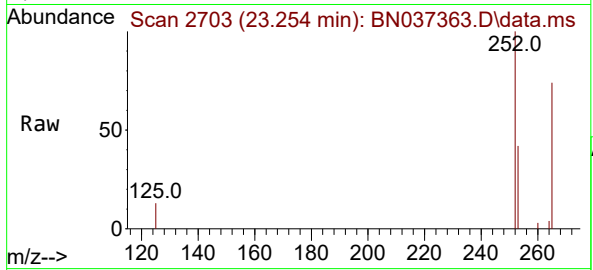
Tgt Ion:252 Resp: 4418

Ion Ratio Lower Upper

252 100

253 41.9 31.6 47.4

125 12.8 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.537 ng

RT: 25.555 min Scan# 3490

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

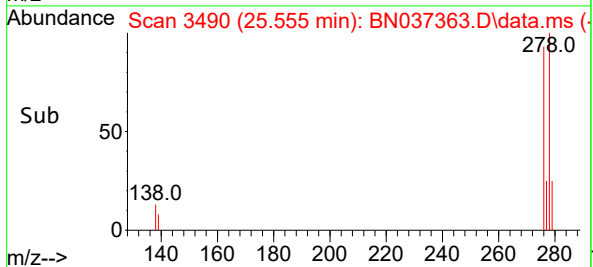
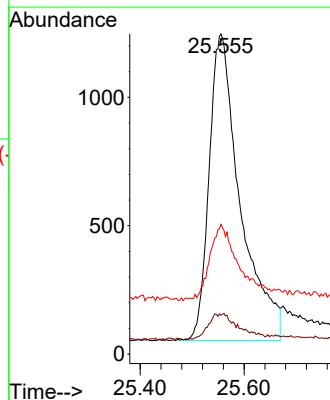
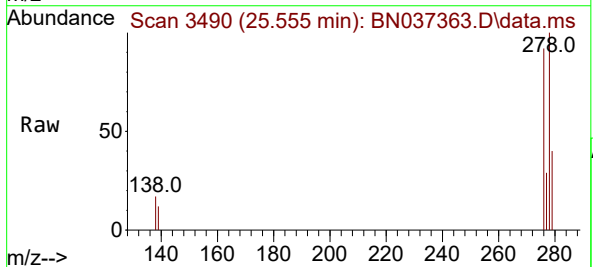
Tgt Ion:278 Resp: 4975

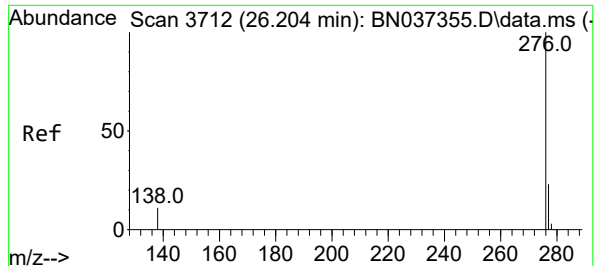
Ion Ratio Lower Upper

278 100

139 12.1 10.2 15.4

279 40.5 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.464 ng

RT: 26.201 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037363.D

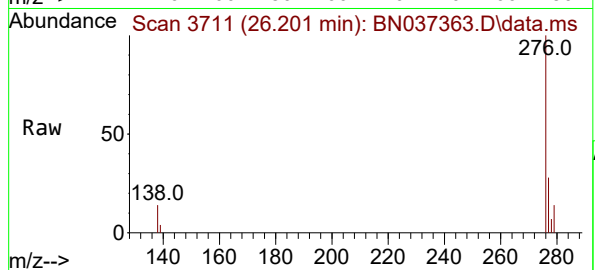
Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS



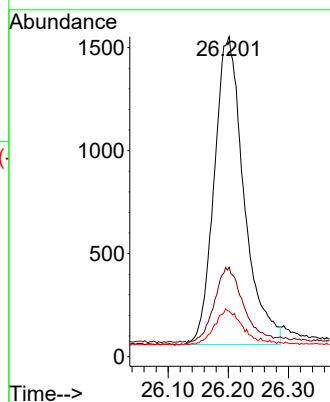
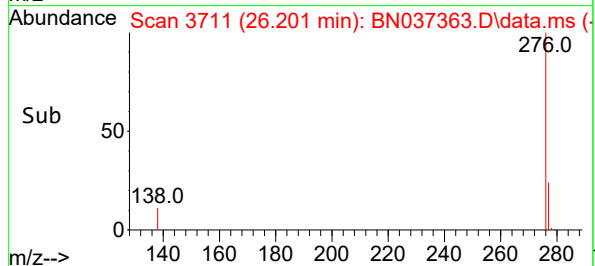
Tgt Ion:276 Resp: 5107

Ion Ratio Lower Upper

276 100

277 27.9 22.7 34.1

138 14.2 9.4 14.2#



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB168563BSD	SDG No.:	Q2377
Lab Sample ID:	PB168563BSD	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
BN037364.D	1	06/20/25 12:03	06/21/25 00:04	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.30		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.39		30 (20) - 150 (139)	97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 (54) - 150 (157)	86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		30 (27) - 130 (154)	97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 (30) - 130 (155)	99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		30 (54) - 130 (175)	94%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.568			
1146-65-2	Naphthalene-d8	4100	10.34			
15067-26-2	Acenaphthene-d10	2620	14.213			
1517-22-2	Phenanthrene-d10	5040	16.971			
1719-03-5	Chrysene-d12	4190	21.162			
1520-96-3	Perylene-d12	4470	23.354			

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\BN062125\
 Data File : BN037364.D
 Acq On : 21 Jun 2025 00:04
 Operator : RC/JU
 Sample : PB168563BSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168563BSD

Quant Time: Jun 21 00:33:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

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

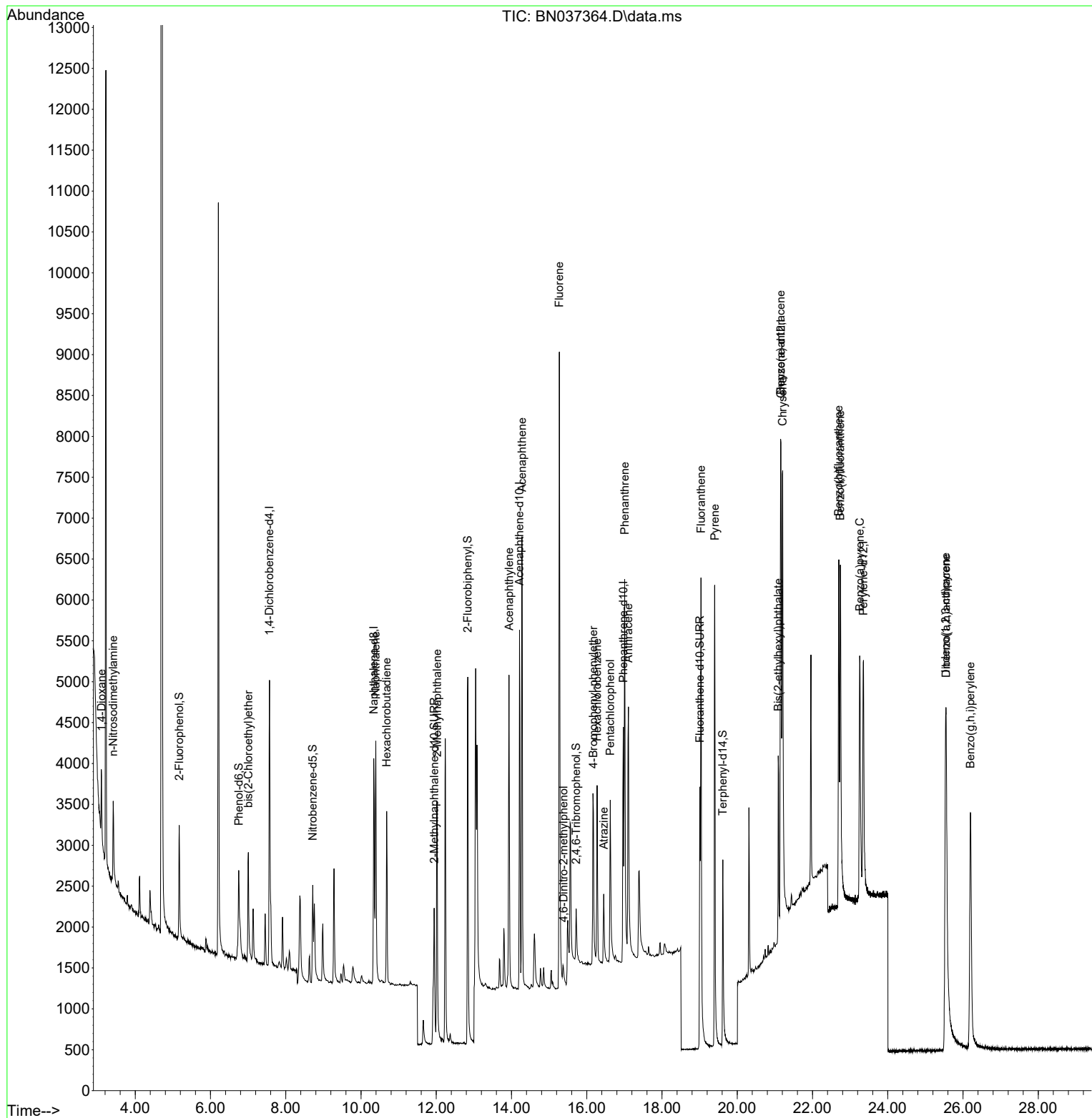
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4095	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2623	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5035	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	4193	0.400	ng	0.00
35) Perylene-d12	23.354	264	4470	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1274	0.338	ng	0.00
5) Phenol-d6	6.752	99	1342	0.346	ng	0.00
8) Nitrobenzene-d5	8.717	82	1284	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2563m	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	522	0.339	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4574	0.397	ng	0.00
27) Fluoranthene-d10	19.007	212	5003	0.346	ng	0.00
31) Terphenyl-d14	19.616	244	3587	0.375	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	583	0.304	ng	# 36
3) n-Nitrosodimethylamine	3.415	42	653	0.372	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1260	0.366	ng	99
9) Naphthalene	10.394	128	4026	0.372	ng	# 89
10) Hexachlorobutadiene	10.682	225	1748	0.410	ng	# 100
12) 2-Methylnaphthalene	12.021	142	2474	0.328	ng	93
16) Acenaphthylene	13.935	152	4445	0.403	ng	98
17) Acenaphthene	14.277	154	2642	0.364	ng	98
18) Fluorene	15.271	166	3709	0.364	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	419	0.346	ng	# 81
21) 4-Bromophenyl-phenylether	16.177	248	1344	0.375	ng	96
22) Hexachlorobenzene	16.276	284	1596	0.409	ng	99
23) Atrazine	16.450	200	1011	0.354	ng	# 88
24) Pentachlorophenol	16.624	266	1337	0.688	ng	97
25) Phenanthrene	17.009	178	5370	0.368	ng	99
26) Anthracene	17.108	178	4862	0.362	ng	99
28) Fluoranthene	19.035	202	6244	0.339	ng	# 99
30) Pyrene	19.402	202	6351	0.373	ng	99
32) Benzo(a)anthracene	21.153	228	5141	0.373	ng	99
33) Chrysene	21.206	228	6472	0.387	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	2023	0.358	ng	96
36) Indeno(1,2,3-cd)pyrene	25.538	276	7744	0.386	ng	# 92
37) Benzo(b)fluoranthene	22.696	252	5838	0.355	ng	95
38) Benzo(k)fluoranthene	22.740	252	6945	0.389	ng	96
39) Benzo(a)pyrene	23.254	252	5888	0.399	ng	95
40) Dibenzo(a,h)anthracene	25.552	278	5912	0.392	ng	89
41) Benzo(g,h,i)perylene	26.199	276	7039	0.393	ng	96

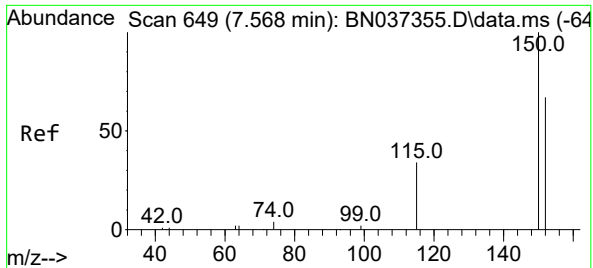
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037364.D
Acq On : 21 Jun 2025 00:04
Operator : RC/JU
Sample : PB168563BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Quant Time: Jun 21 00:33:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

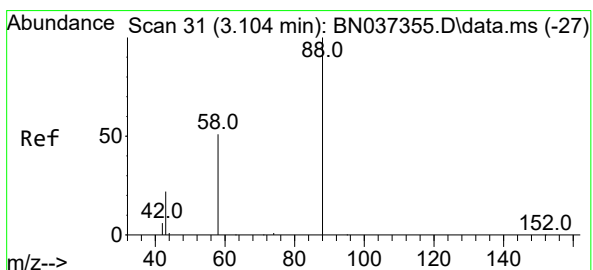
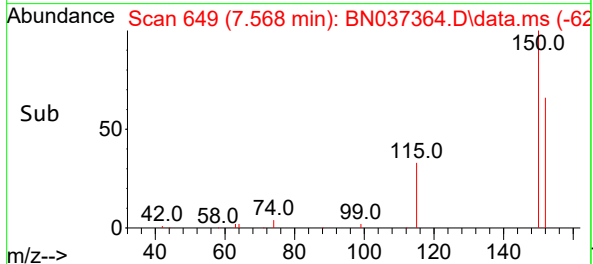
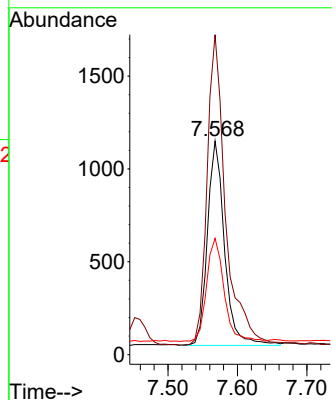
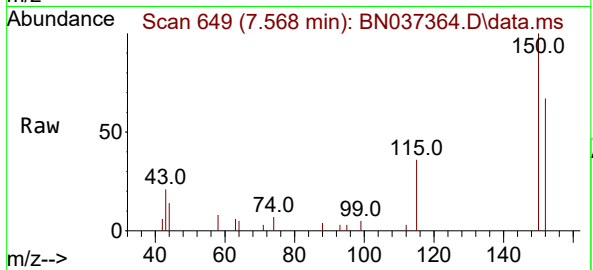




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

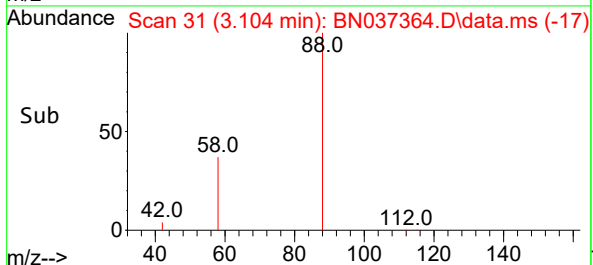
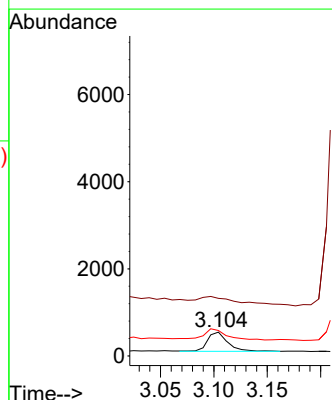
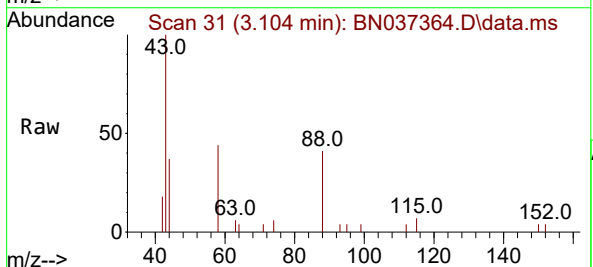
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:152 Resp: 1885
Ion Ratio Lower Upper
152 100
150 149.8 112.7 169.1
115 54.4 45.9 68.9

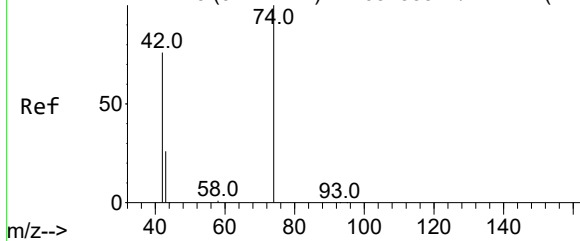


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 88 Resp: 583
Ion Ratio Lower Upper
88 100
43 101.0 21.0 31.6#
58 59.7 38.0 57.0#



Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



#3

n-Nitrosodimethylamine

Concen: 0.372 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

Tgt Ion: 42 Resp: 653

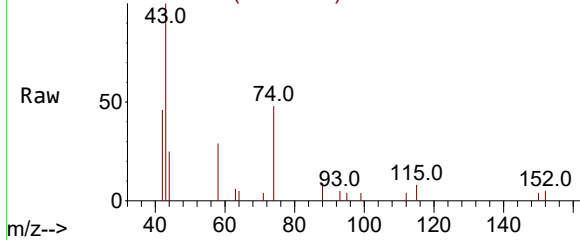
Ion Ratio Lower Upper

42 100

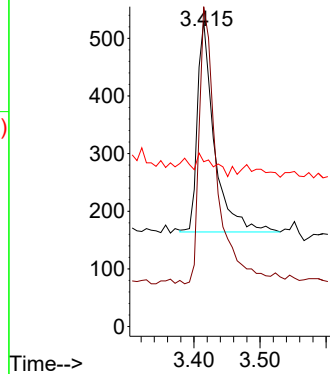
74 137.4 84.3 126.5#

44 10.1 5.0 7.4#

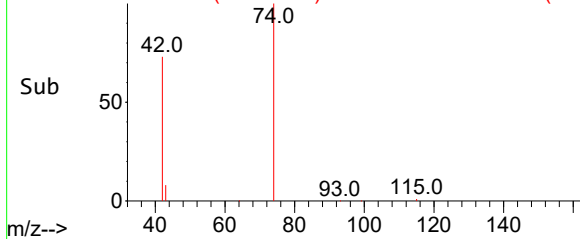
Abundance Scan 74 (3.415 min): BN037364.D\data.ms



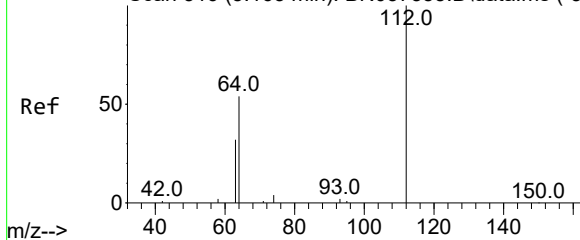
Abundance



Abundance Scan 74 (3.415 min): BN037364.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.338 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.007 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Tgt Ion: 112 Resp: 1274

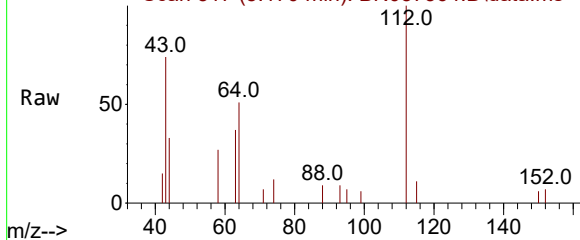
Ion Ratio Lower Upper

112 100

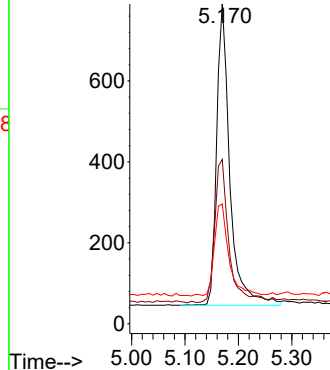
64 50.5 38.7 58.1

63 33.0 26.4 39.6

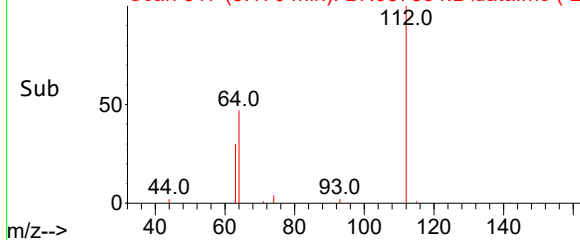
Abundance Scan 317 (5.170 min): BN037364.D\data.ms

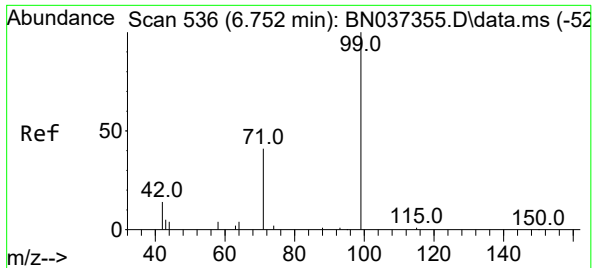


Abundance



Abundance Scan 317 (5.170 min): BN037364.D\data.ms (-28)

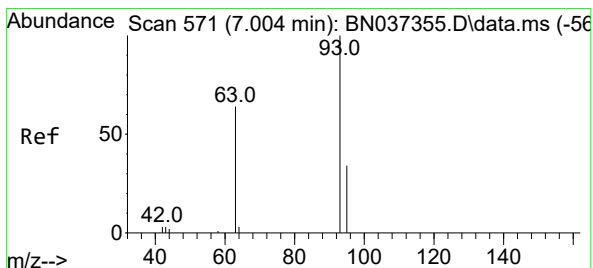
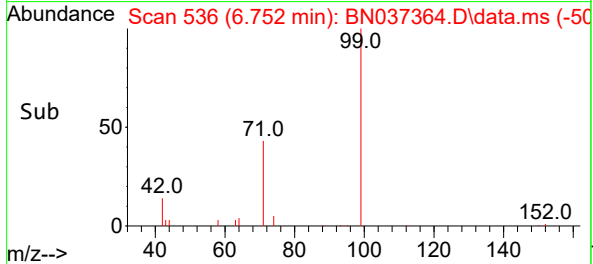
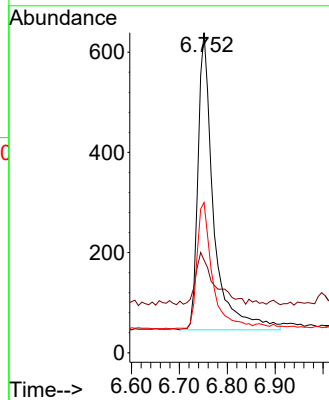
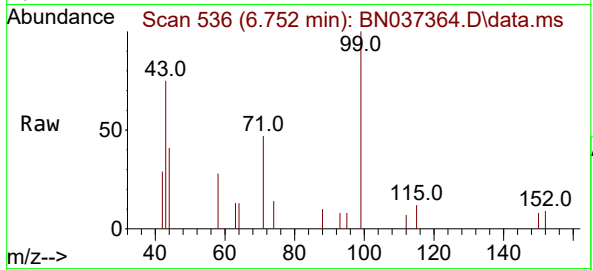




#5
Phenol-d6
Concen: 0.346 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

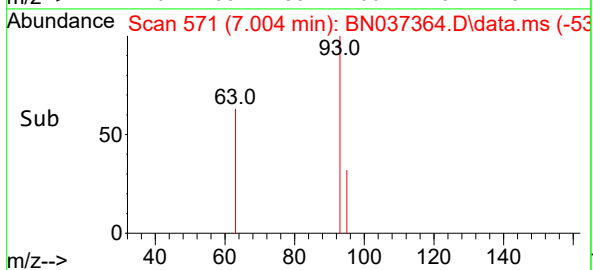
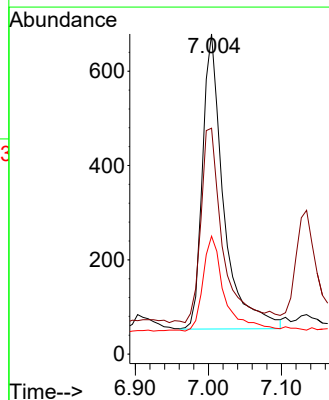
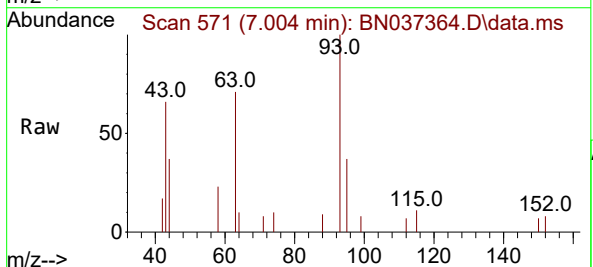
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

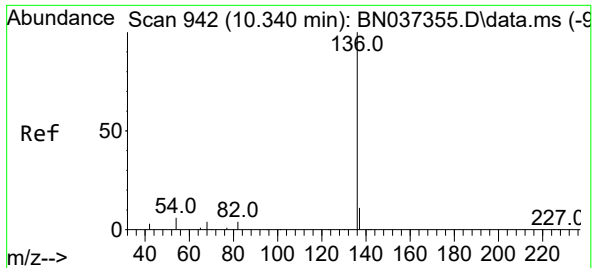
Tgt Ion: 99 Resp: 1342
Ion Ratio Lower Upper
99 100
42 21.1 19.8 29.8
71 42.0 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 93 Resp: 1260
Ion Ratio Lower Upper
93 100
63 66.8 53.2 79.8
95 32.7 27.3 40.9

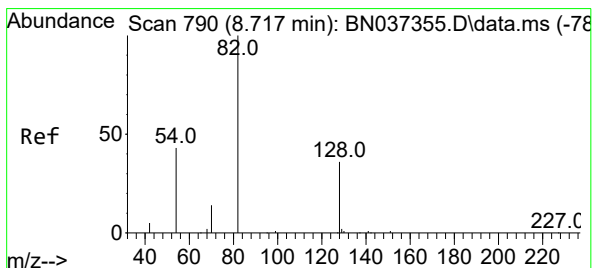
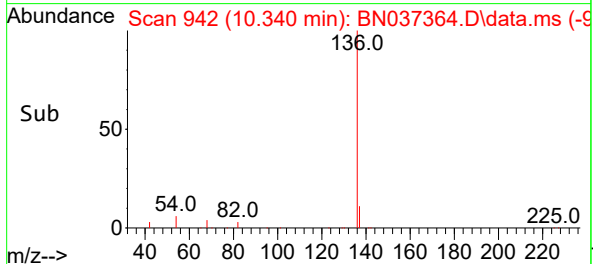
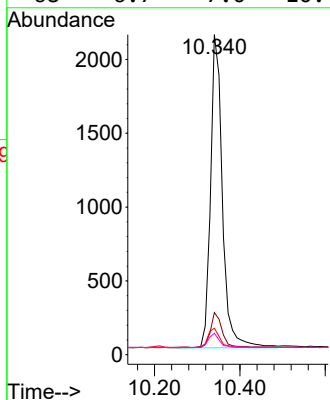
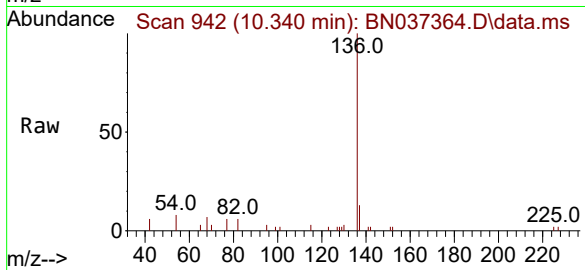




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

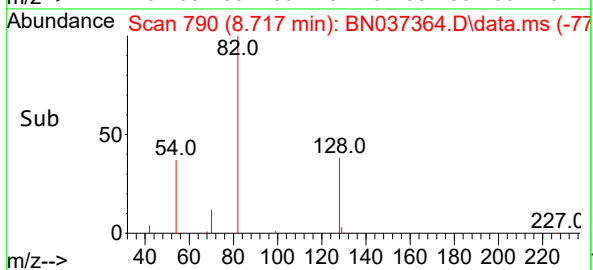
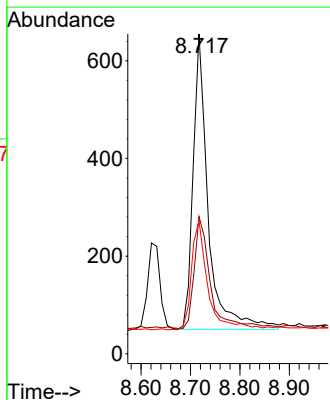
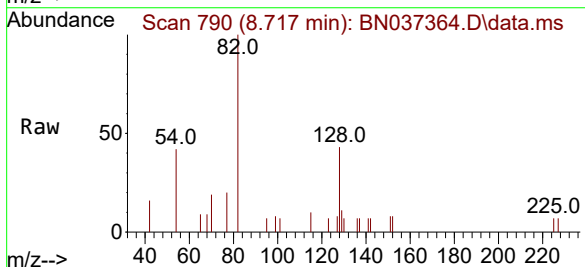
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

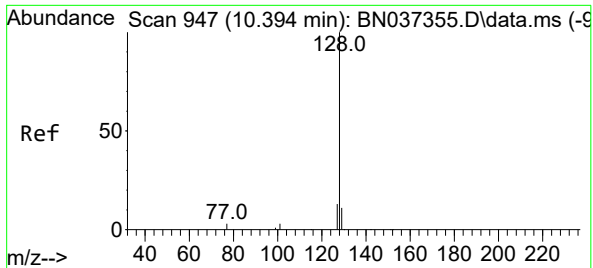
Tgt Ion:	136	Resp:	4095
Ion	Ratio	Lower	Upper
136	100		
137	13.1	12.2	18.2
54	8.3	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	82	Resp:	1284
Ion	Ratio	Lower	Upper
82	100		
128	42.9	42.5	63.7
54	41.7	43.2	64.8#

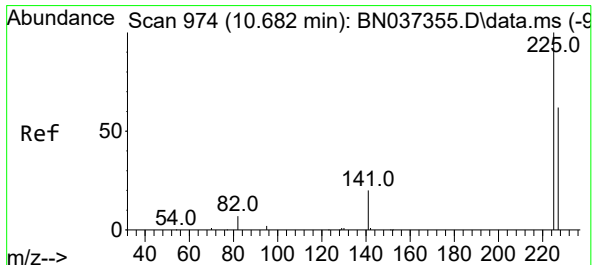
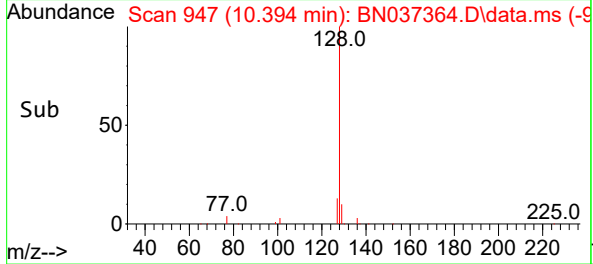
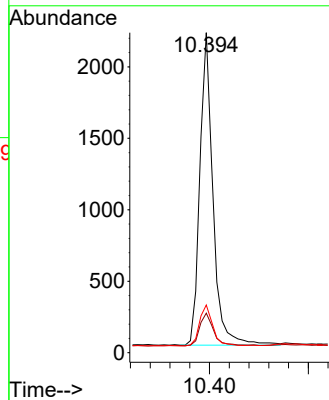
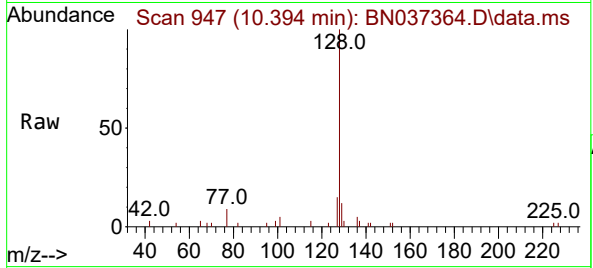




#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

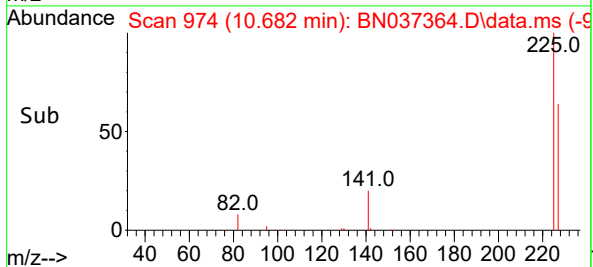
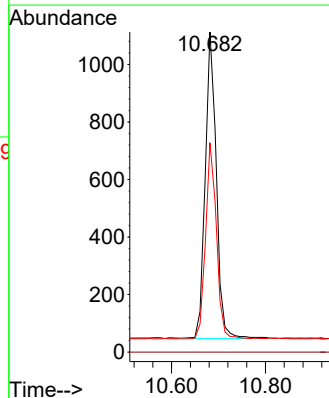
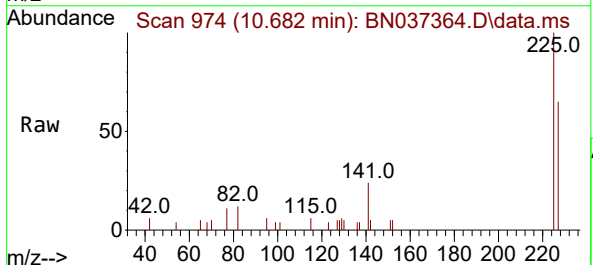
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

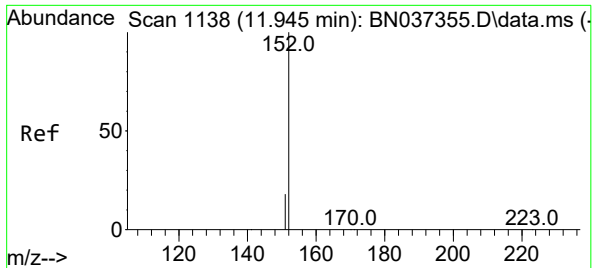
Tgt Ion:128 Resp: 4026
Ion Ratio Lower Upper
128 100
129 12.4 14.0 21.0#
127 14.9 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:225 Resp: 1748
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 50.3 75.5

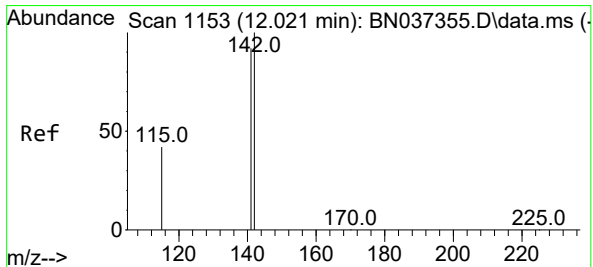
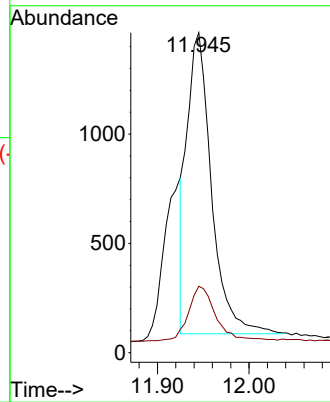
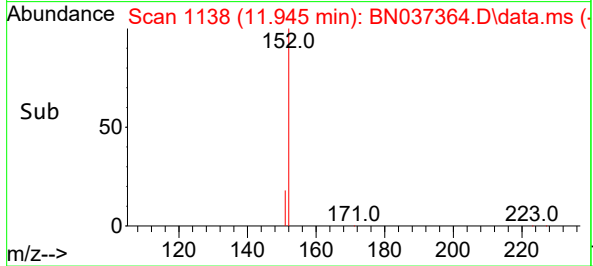
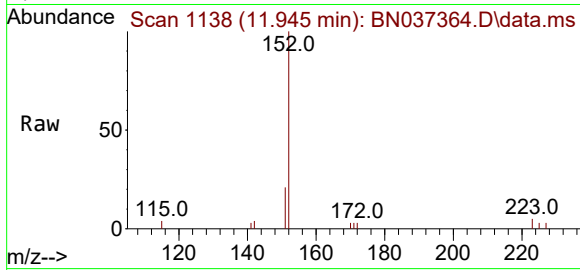




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng m
RT: 11.945 min Scan# 1138
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

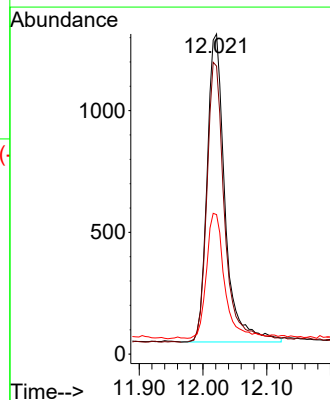
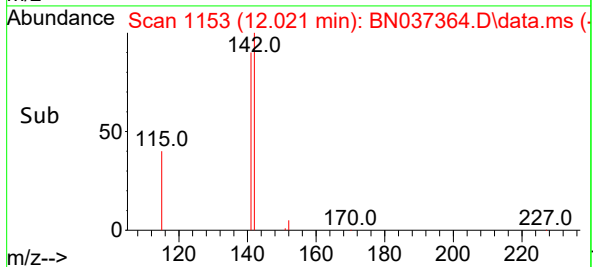
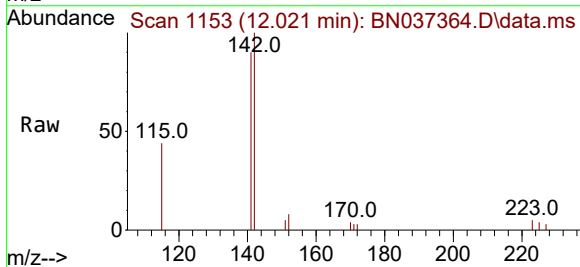
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

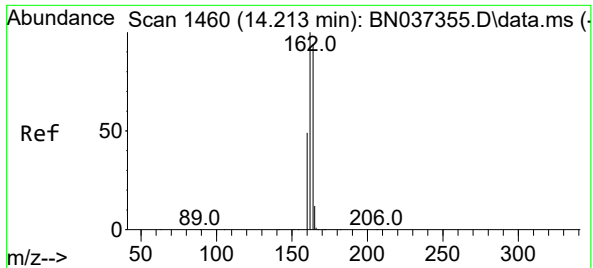
Tgt Ion:152 Resp: 2563
Ion Ratio Lower Upper
152 100
151 21.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.328 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:142 Resp: 2474
Ion Ratio Lower Upper
142 100
141 90.0 70.2 105.2
115 43.6 43.0 64.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

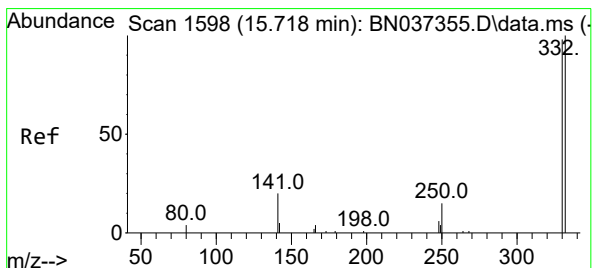
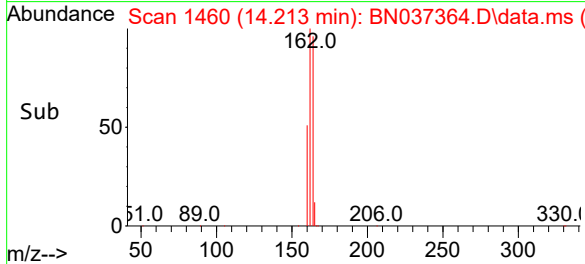
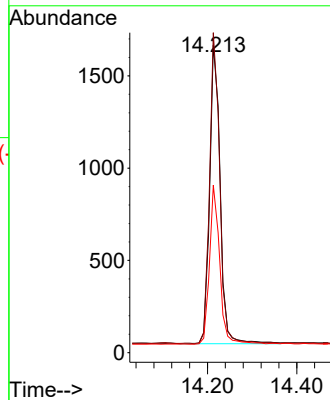
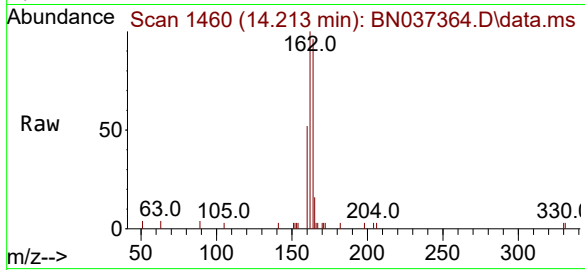
Tgt Ion:164 Resp: 2623

Ion Ratio Lower Upper

164 100

162 104.1 81.5 122.3

160 54.5 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 0.339 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

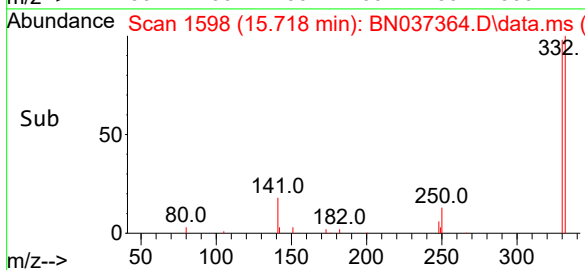
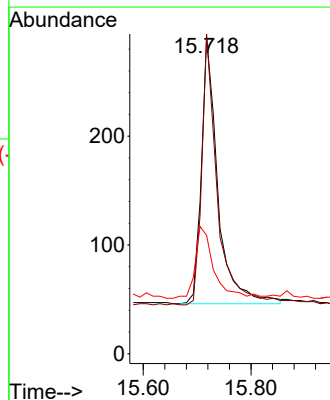
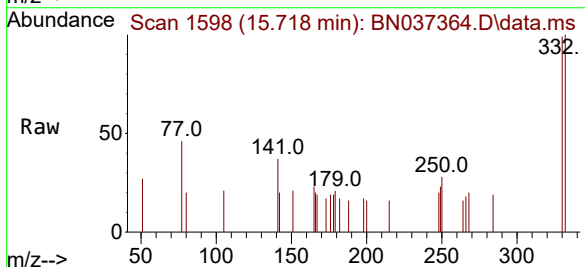
Tgt Ion:330 Resp: 522

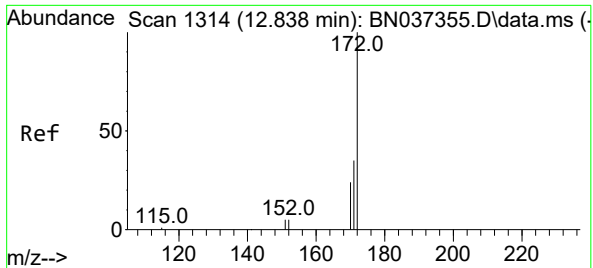
Ion Ratio Lower Upper

330 100

332 95.8 78.4 117.6

141 30.7 24.4 36.6





#15

2-Fluorobiphenyl

Concen: 0.397 ng

RT: 12.838 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

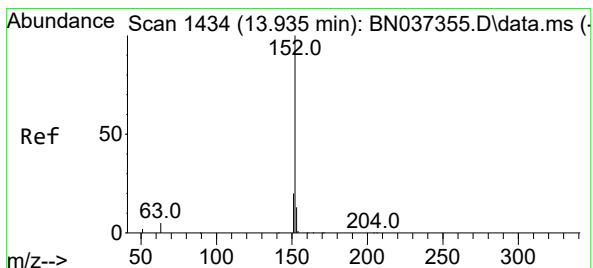
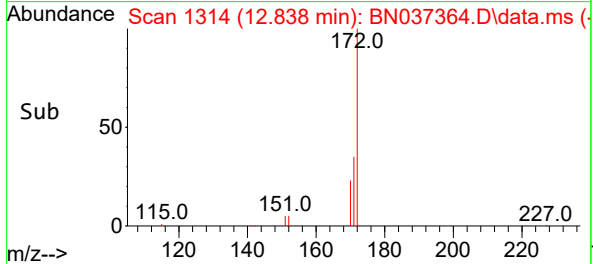
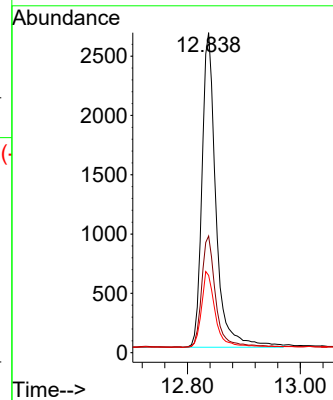
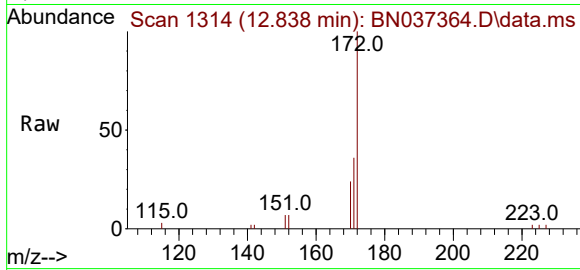
Tgt Ion:172 Resp: 4574

Ion Ratio Lower Upper

172 100

171 36.5 30.8 46.2

170 24.2 21.9 32.9



#16

Acenaphthylene

Concen: 0.403 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

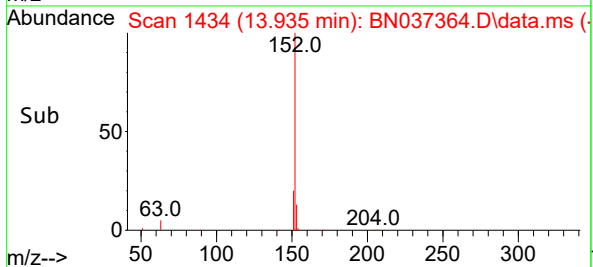
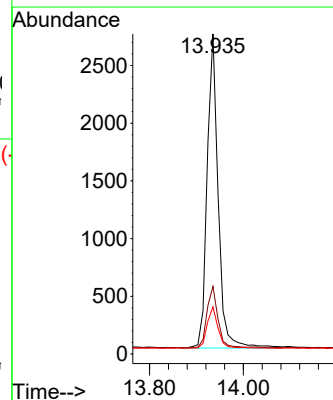
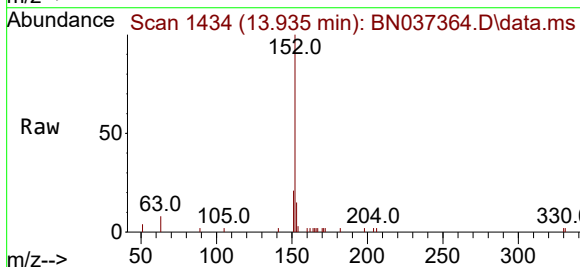
Tgt Ion:152 Resp: 4445

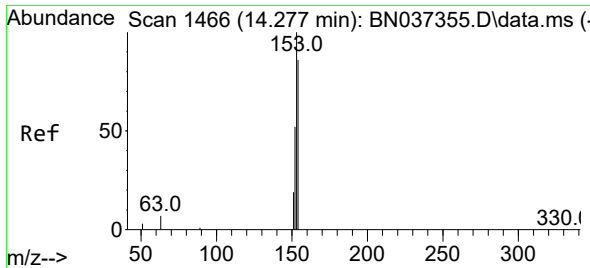
Ion Ratio Lower Upper

152 100

151 19.4 16.6 24.8

153 13.3 10.2 15.2

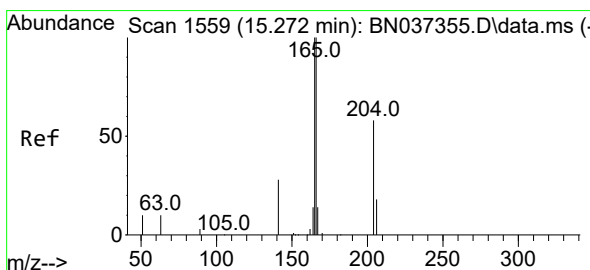
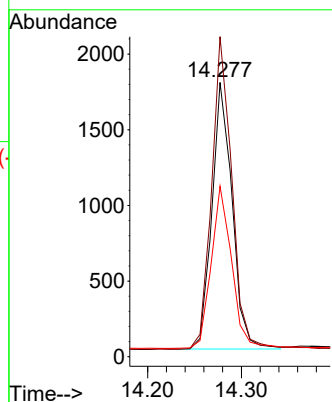
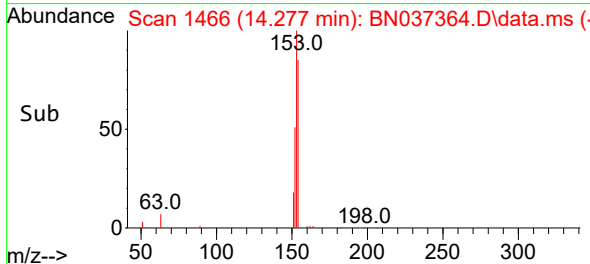
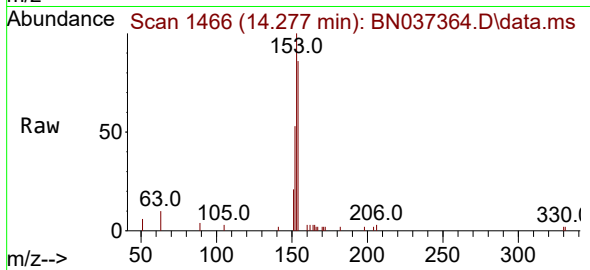




#17
Acenaphthene
Concen: 0.364 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

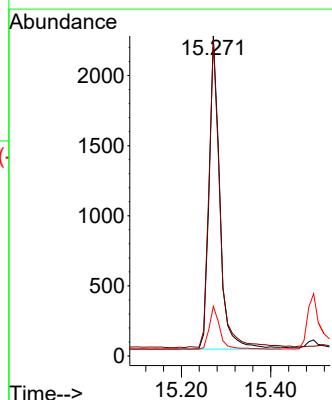
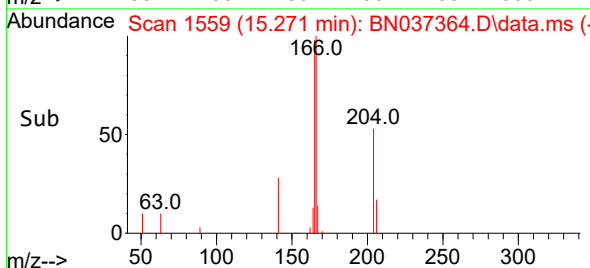
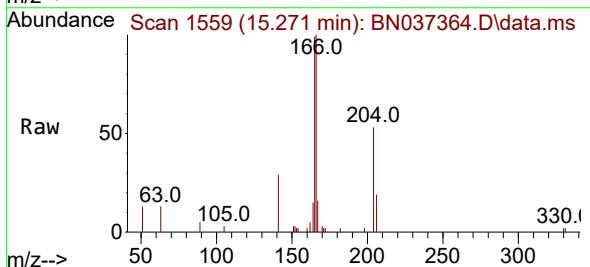
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

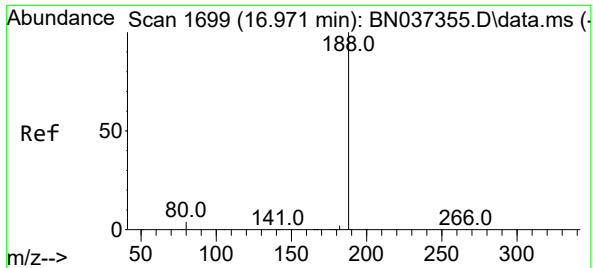
Tgt Ion	154	153	152
Resp:	2642	118.2	62.7
Lower		93.1	48.6
Upper		139.7	73.0



#18
Fluorene
Concen: 0.364 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion	166	165	167
Resp:	3709	100.1	13.8
Lower		79.5	10.7
Upper		119.3	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

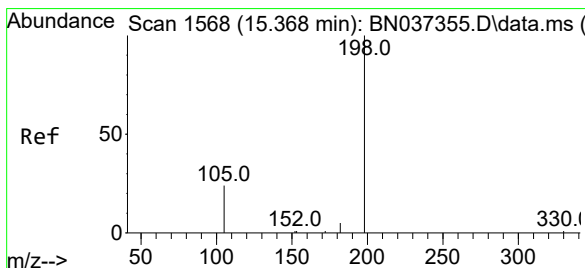
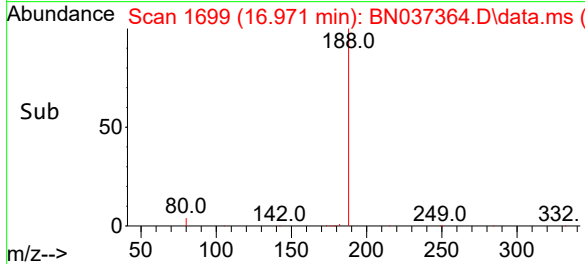
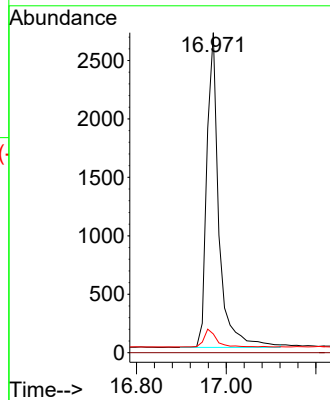
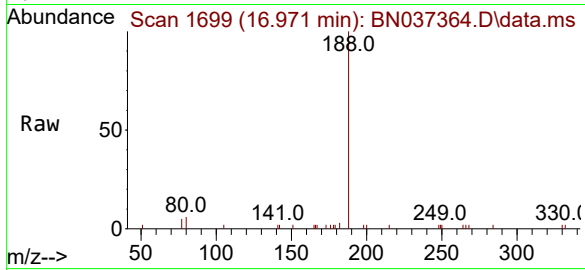
Tgt Ion:188 Resp: 5035

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.9 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.346 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

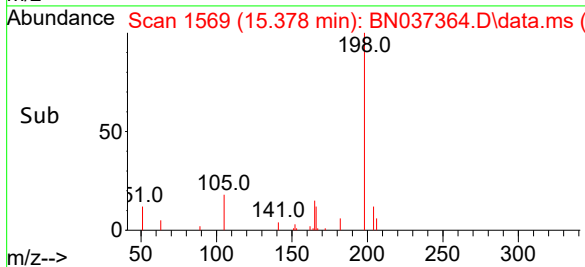
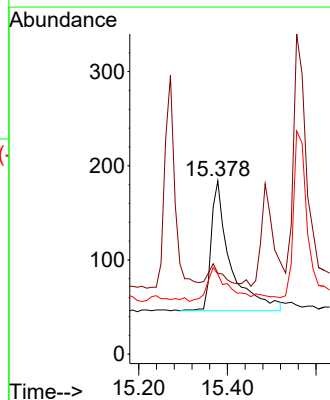
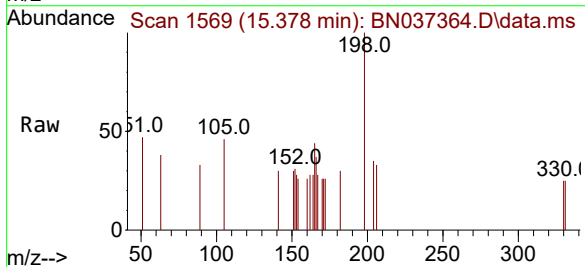
Tgt Ion:198 Resp: 419

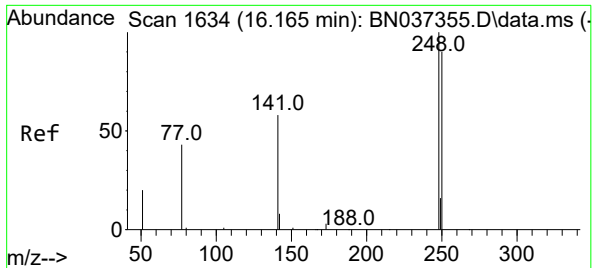
Ion Ratio Lower Upper

198 100

51 46.7 51.4 77.0#

105 46.2 45.5 68.3

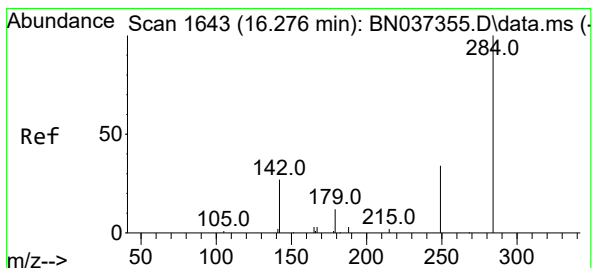
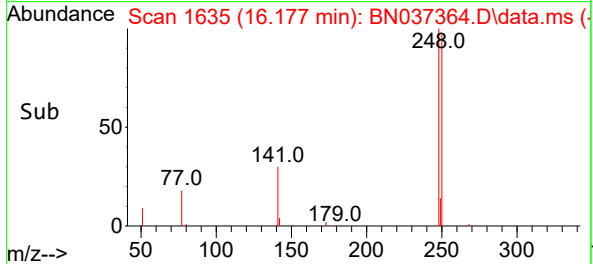
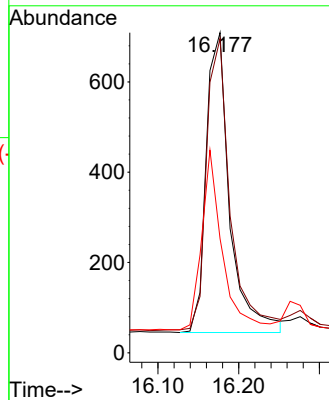
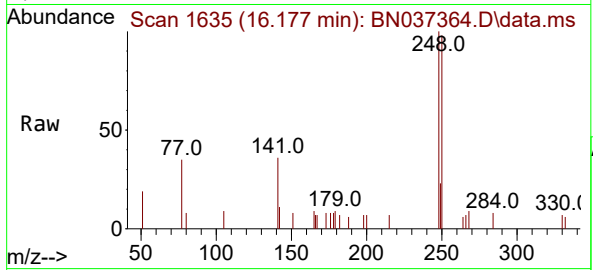




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

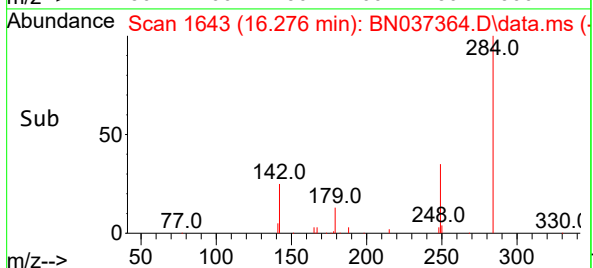
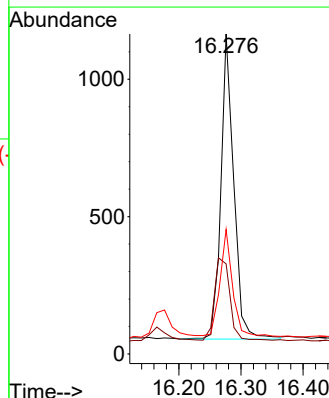
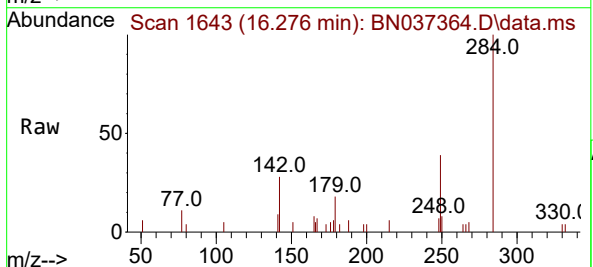
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

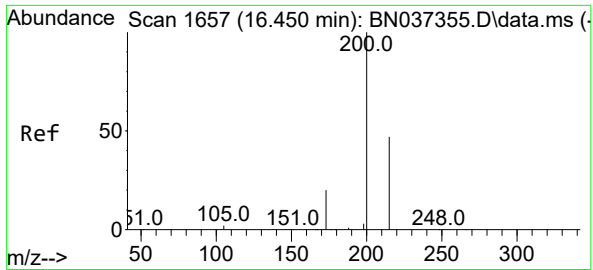
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.2	80.4	120.6
141	35.7	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.3	27.0	40.6
249	35.8	28.8	43.2

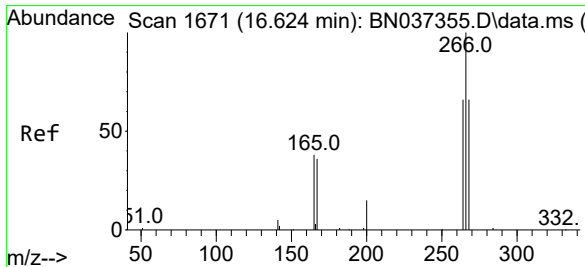
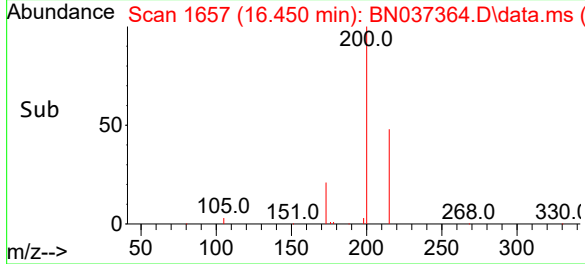
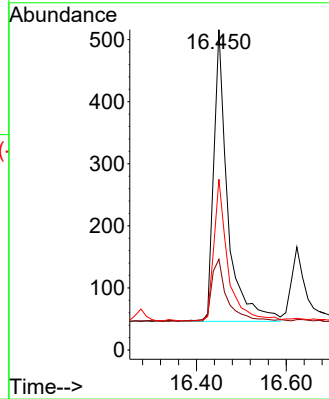
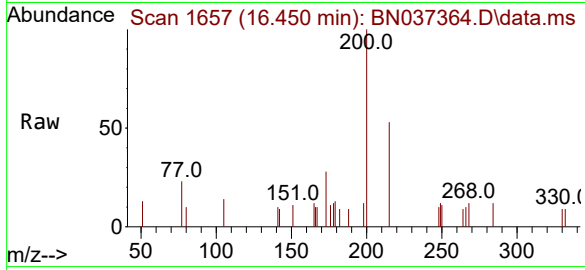




#23
Atrazine
Concen: 0.354 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

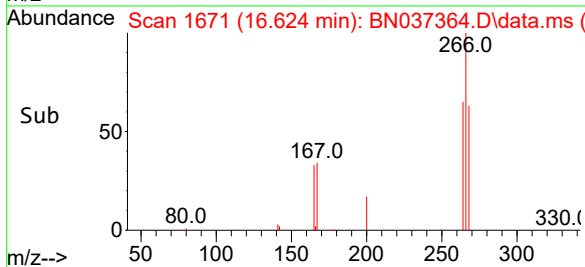
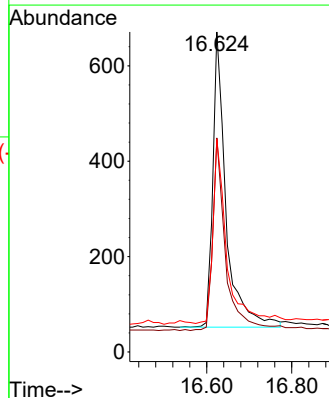
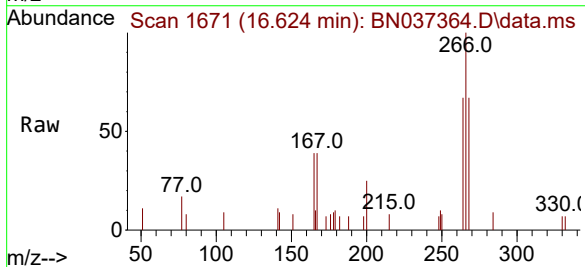
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

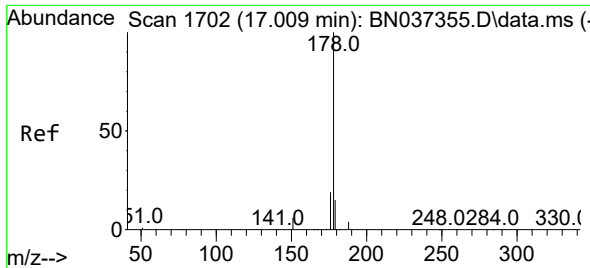
Tgt Ion:200 Resp: 1011
Ion Ratio Lower Upper
200 100
173 28.3 29.2 43.8#
215 53.3 48.8 73.2



#24
Pentachlorophenol
Concen: 0.688 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:266 Resp: 1337
Ion Ratio Lower Upper
266 100
264 62.5 50.3 75.5
268 65.4 55.3 82.9

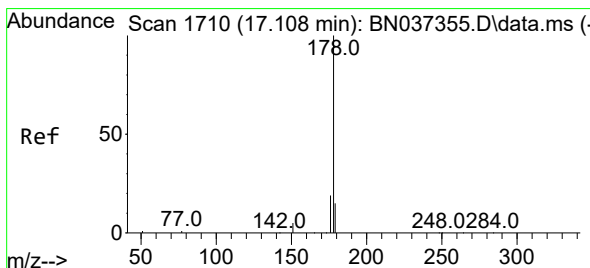
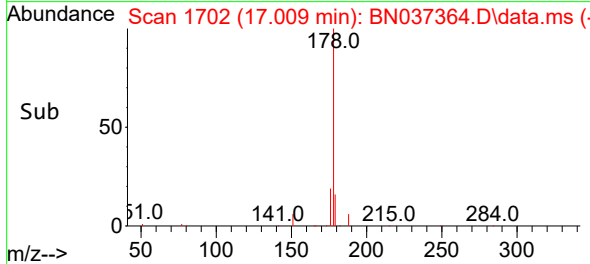
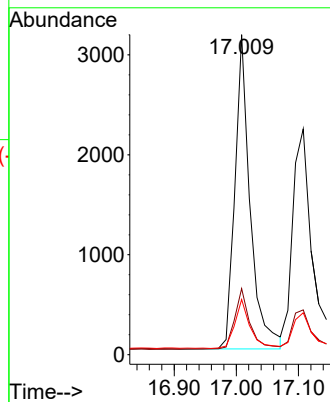
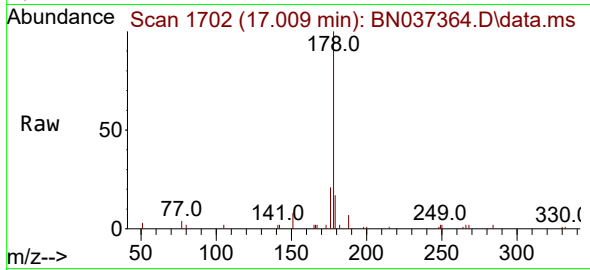




#25
Phenanthrene
Concen: 0.368 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

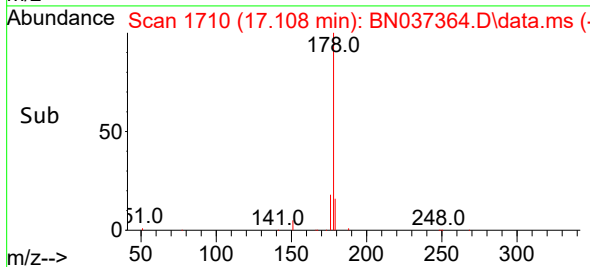
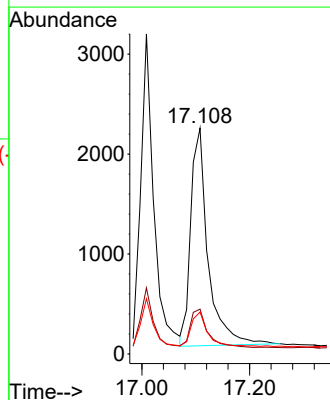
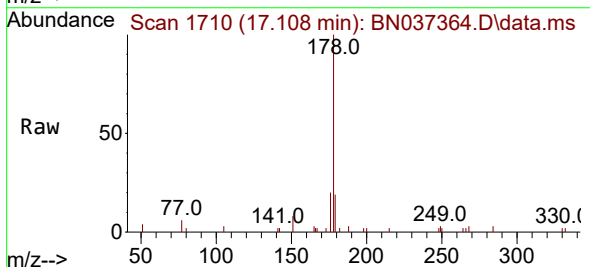
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

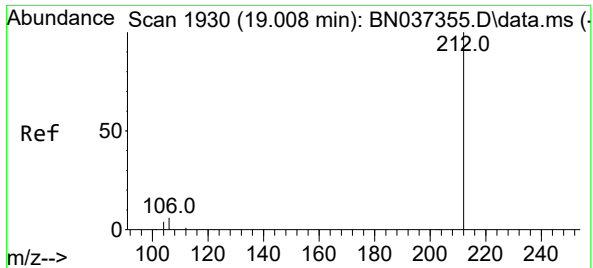
Tgt Ion:178 Resp: 5370
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.8 12.9 19.3



#26
Anthracene
Concen: 0.362 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:178 Resp: 4862
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.5 13.0 19.6

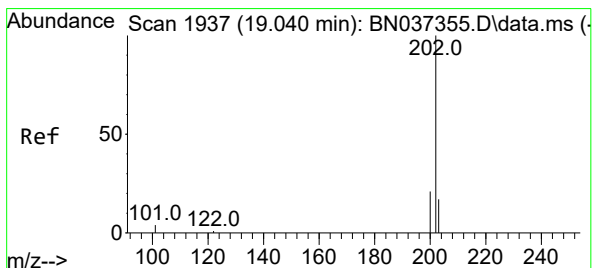
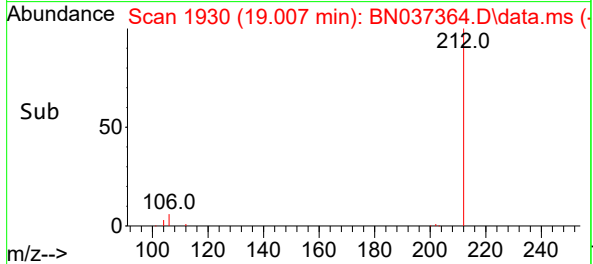
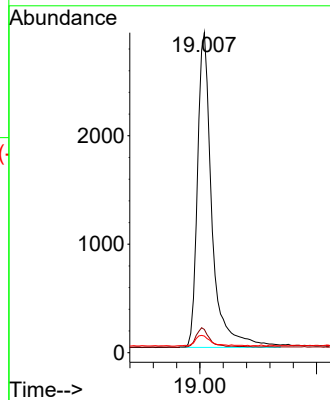
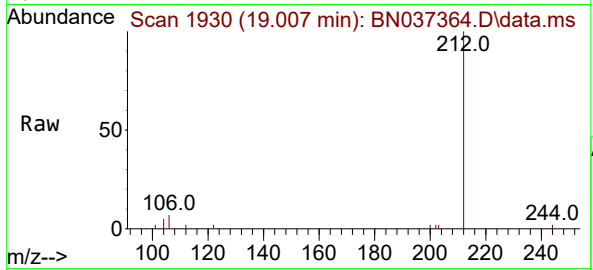




#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.007 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

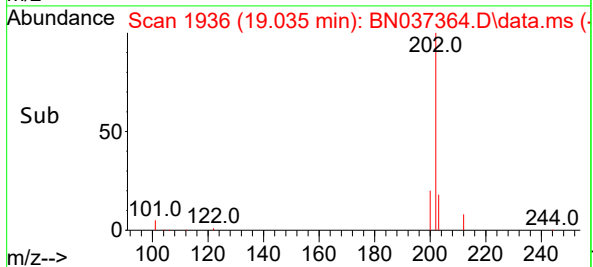
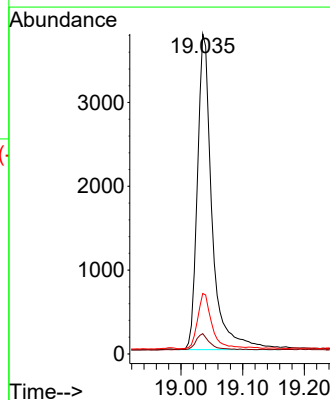
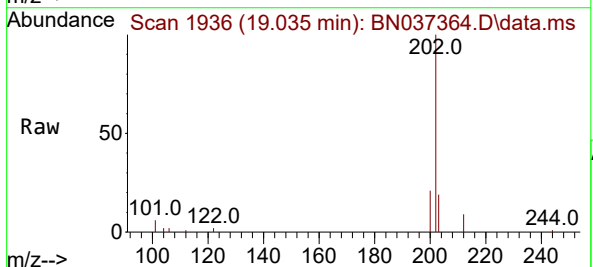
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

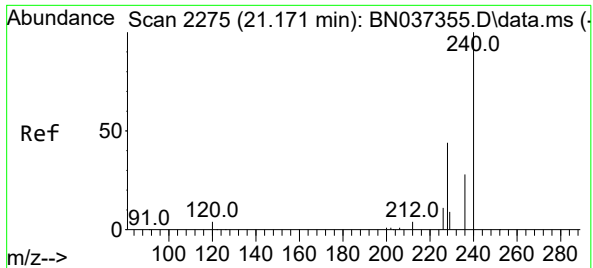
Tgt Ion:212 Resp: 5003
Ion Ratio Lower Upper
212 100
106 6.2 3.0 4.4#
104 3.7 2.0 3.0#



#28
Fluoranthene
Concen: 0.339 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6244
Ion Ratio Lower Upper
202 100
101 4.9 3.0 4.6#
203 16.9 13.7 20.5

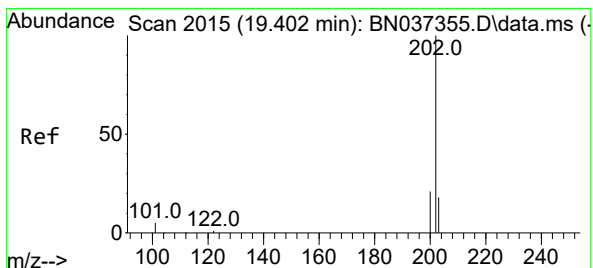
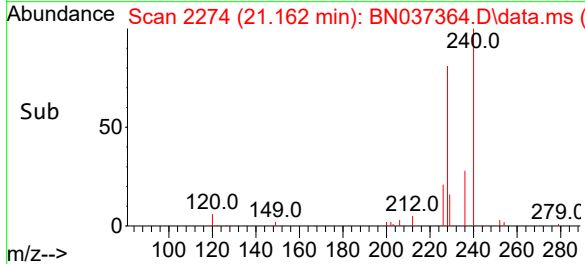
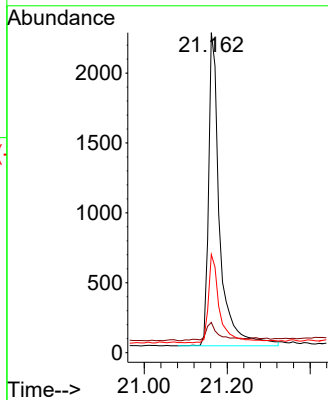
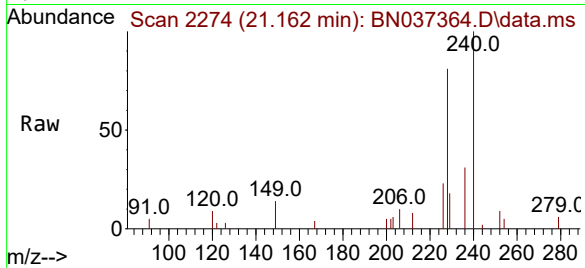




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2117
Delta R.T. -0.009 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

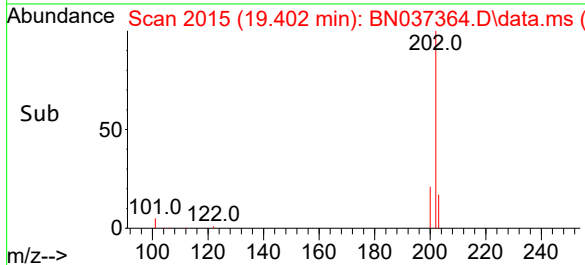
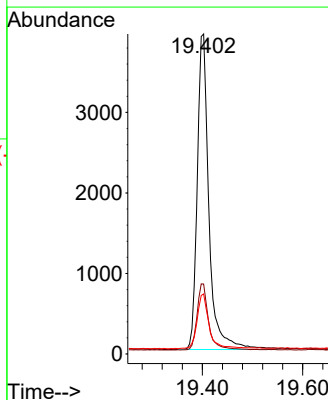
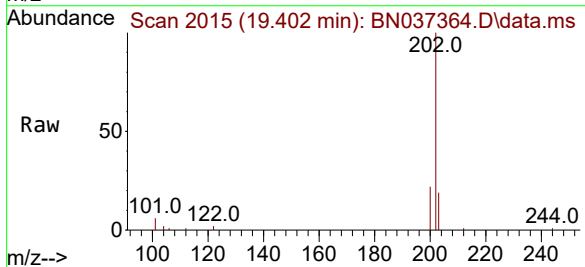
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

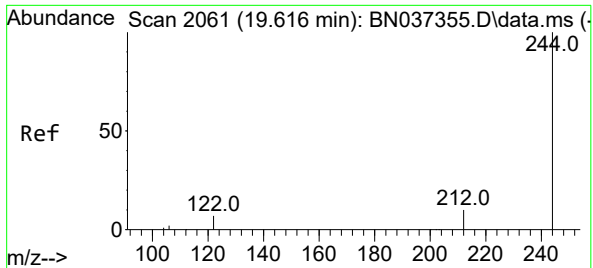
Tgt Ion:240 Resp: 4193
Ion Ratio Lower Upper
240 100
120 9.4 7.5 11.3
236 30.7 24.9 37.3



#30
Pyrene
Concen: 0.373 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6351
Ion Ratio Lower Upper
202 100
200 20.7 16.8 25.2
203 18.4 14.5 21.7

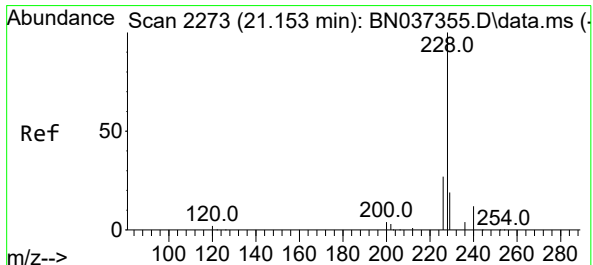
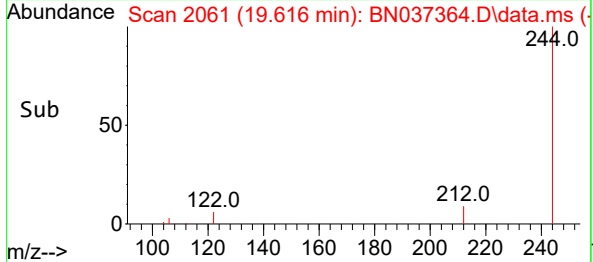
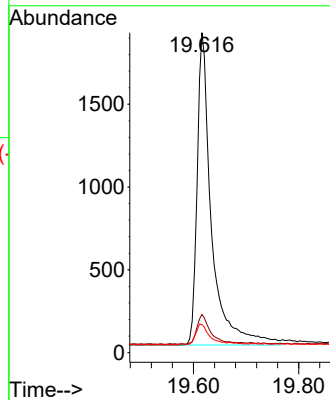
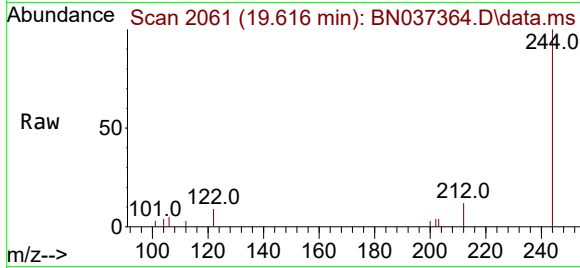




#31
Terphenyl-d14
Concen: 0.375 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

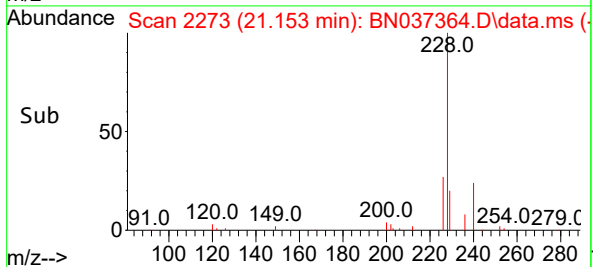
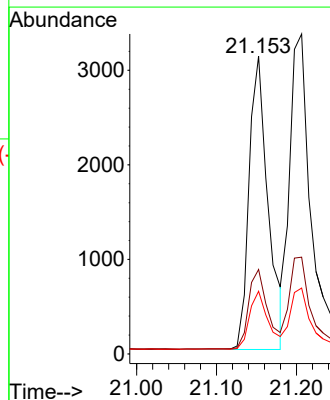
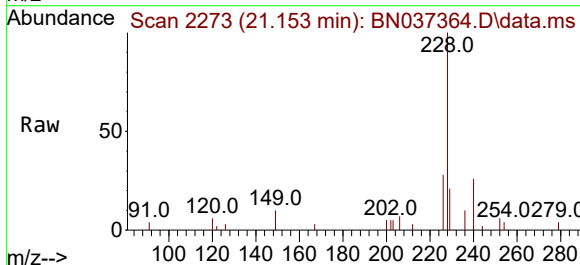
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

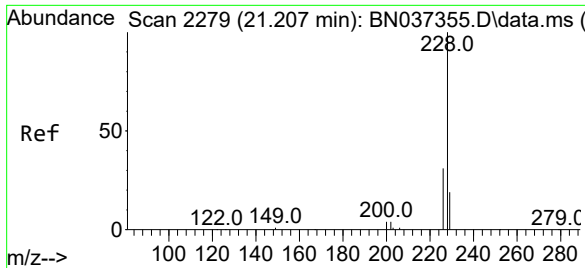
Tgt Ion:	244	Resp:	3587
Ion Ratio	Lower	Upper	
244	100		
212	12.0	11.1	16.7
122	8.8	7.2	10.8



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	228	Resp:	5141
Ion Ratio	Lower	Upper	
228	100		
226	28.4	23.0	34.4
229	21.1	17.4	26.0





#33

Chrysene

Concen: 0.387 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

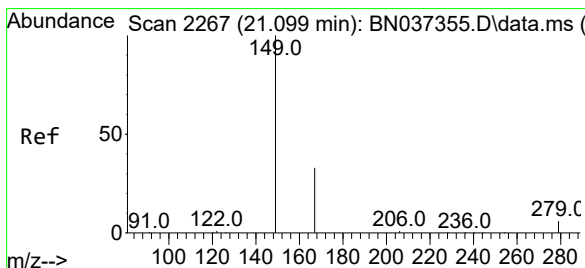
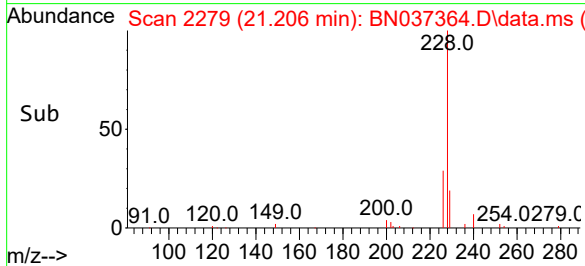
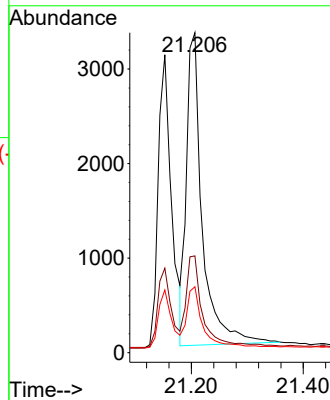
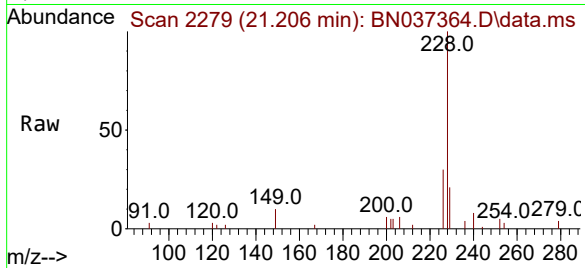
Tgt Ion:228 Resp: 6472

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.2

229 20.6 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

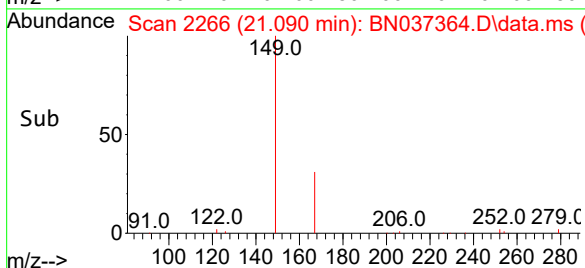
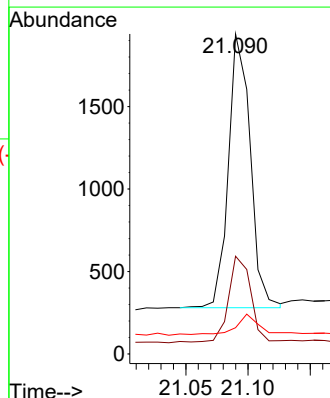
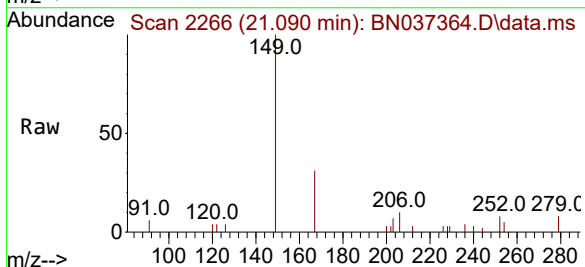
Tgt Ion:149 Resp: 2023

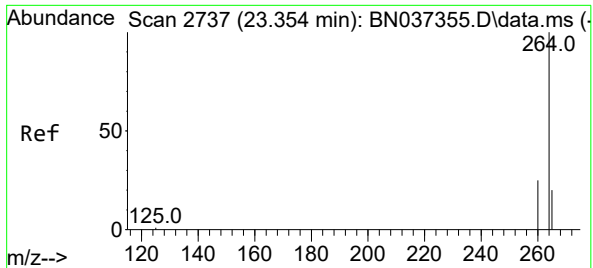
Ion Ratio Lower Upper

149 100

167 32.9 24.6 37.0

279 9.0 6.5 9.7

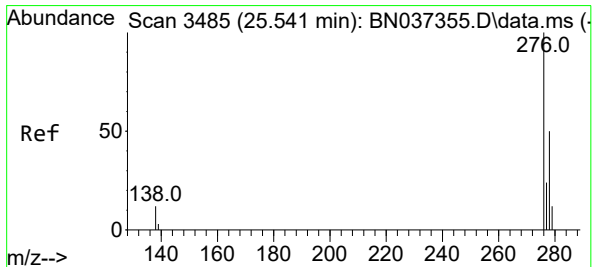
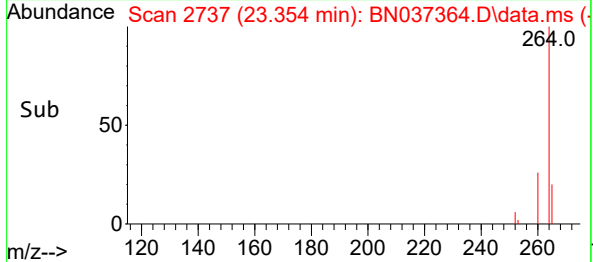
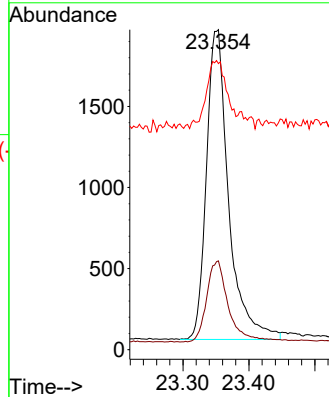
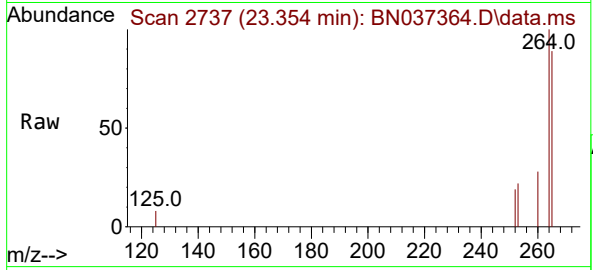




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

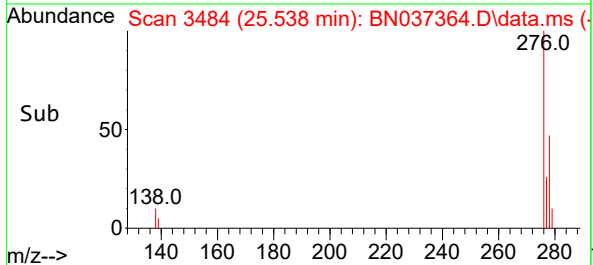
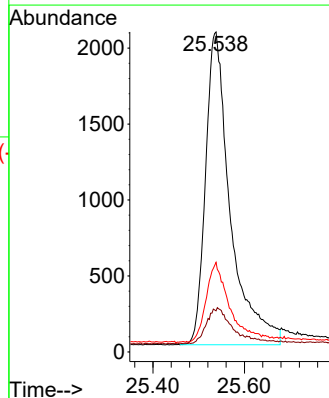
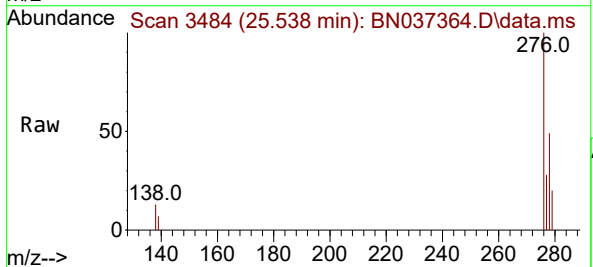
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

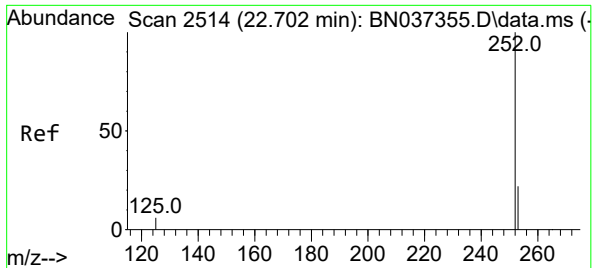
Tgt Ion:264 Resp: 4470
Ion Ratio Lower Upper
264 100
260 27.8 21.4 32.2
265 89.4 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.538 min Scan# 3484
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:276 Resp: 7744
Ion Ratio Lower Upper
276 100
138 10.7 2.2 3.2#
277 24.0 17.1 25.7

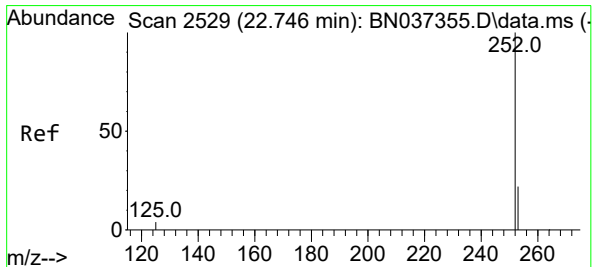
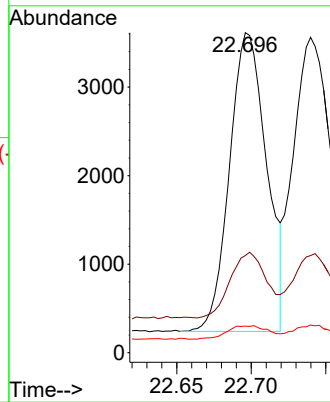
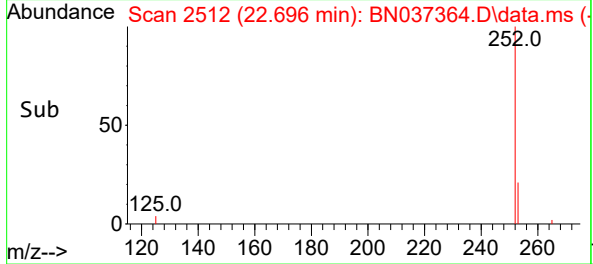
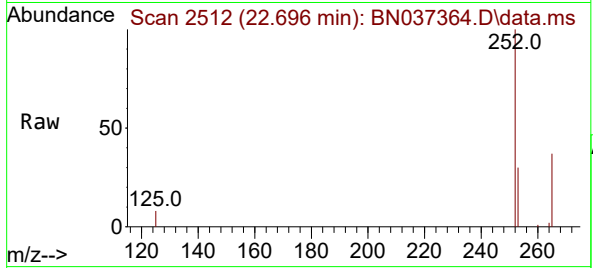




#37
Benzo(b)fluoranthene
Concen: 0.355 ng
RT: 22.696 min Scan# 2512
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

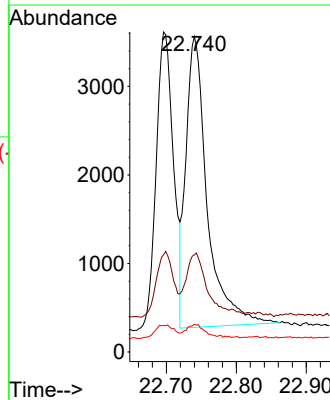
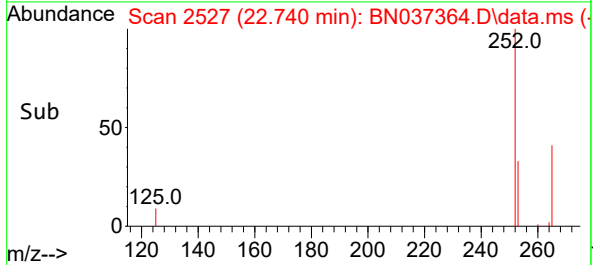
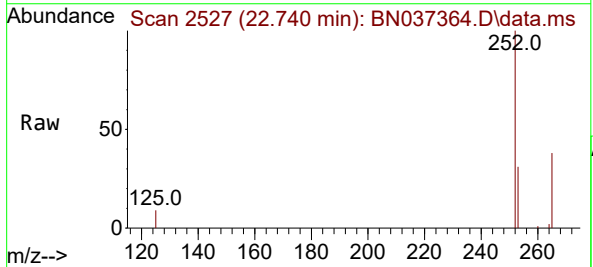
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

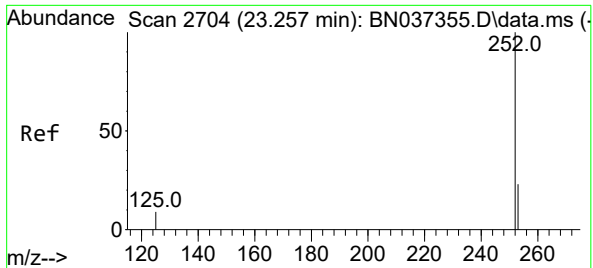
Tgt Ion:252 Resp: 5838
Ion Ratio Lower Upper
252 100
253 30.4 26.6 40.0
125 8.3 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.389 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:252 Resp: 6945
Ion Ratio Lower Upper
252 100
253 30.8 26.7 40.1
125 8.8 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

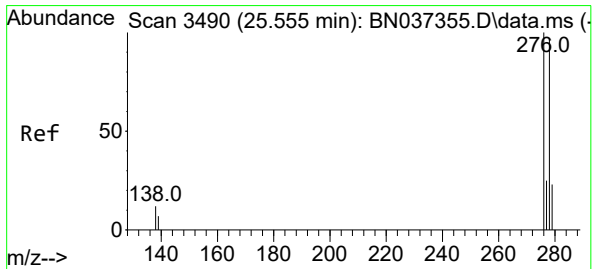
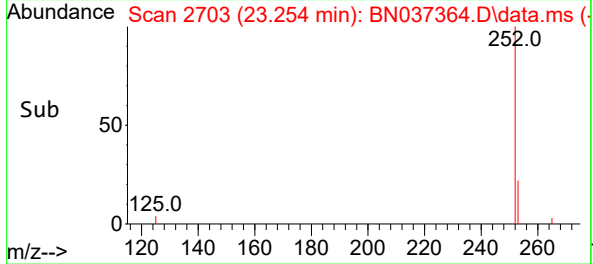
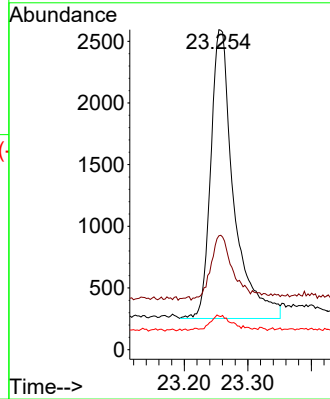
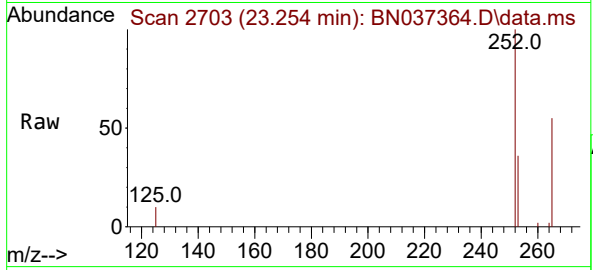
Tgt Ion:252 Resp: 5888

Ion Ratio Lower Upper

252 100

253 35.6 31.6 47.4

125 10.5 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.392 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

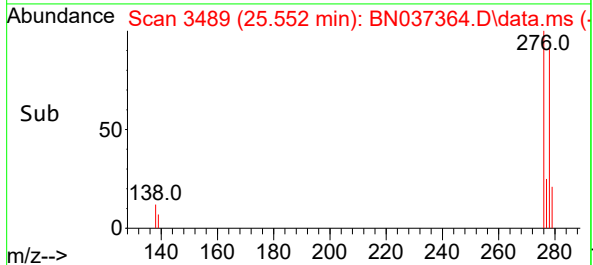
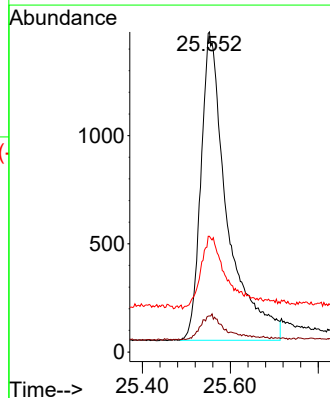
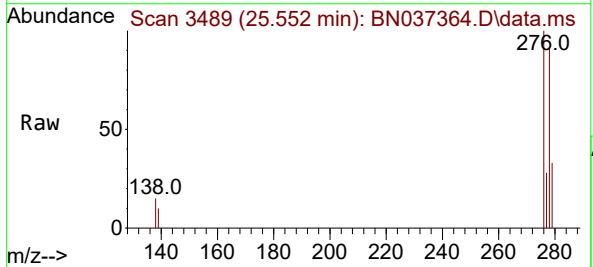
Tgt Ion:278 Resp: 5912

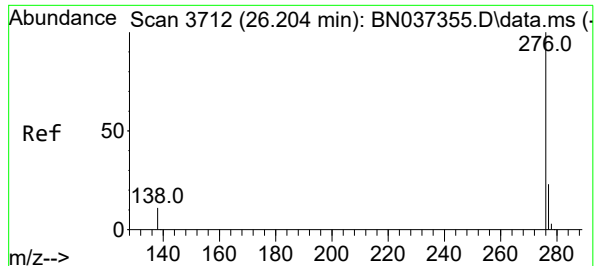
Ion Ratio Lower Upper

278 100

139 11.3 10.2 15.4

279 36.2 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.393 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037364.D

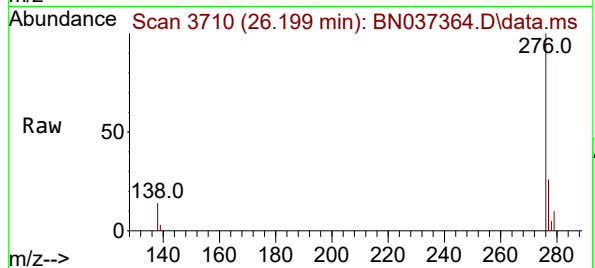
Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD



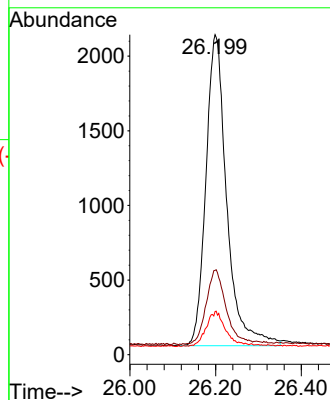
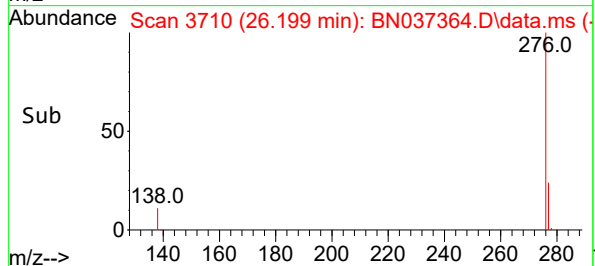
Tgt Ion:276 Resp: 7039

Ion Ratio Lower Upper

276 100

277 26.4 22.7 34.1

138 13.5 9.4 14.2



Manual Integration Report

Sequence:

BN062125

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC0.4	BN037355.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:50 PM	Jagrut	6/24/2025 3:19:09 PM	Peak Integrated by Software
SSTDICV0.4	BN037360.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:53 PM	Jagrut	6/24/2025 3:19:11 PM	Peak Integrated by Software
PB168563BSD	BN037364.D	2-Methylnaphthalene-d10	Rahul	6/23/2025 4:45:56 PM	Jagrut	6/24/2025 3:19:14 PM	Peak Integrated by Software
SSTDCCC0.4	BN037365.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:59 PM	Jagrut	6/24/2025 3:19:16 PM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN062125

Review By	Rahul	Review On	6/24/2025 9:00:26 AM
Supervise By	Jagrut	Supervise On	6/24/2025 3:20:40 PM
SubDirectory	BN062125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062125
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037351.D	20 Jun 2025 15:00	RC/JU	Ok
2	SSTDCCC0.4	BN037352.D	20 Jun 2025 16:15	RC/JU	Not Ok
3	SSTDICC0.1	BN037353.D	20 Jun 2025 16:51	RC/JU	Ok
4	SSTDICC0.2	BN037354.D	20 Jun 2025 17:27	RC/JU	Ok
5	SSTDICCC0.4	BN037355.D	20 Jun 2025 18:03	RC/JU	Ok,M
6	SSTDICC0.8	BN037356.D	20 Jun 2025 18:39	RC/JU	Ok
7	SSTDICC1.6	BN037357.D	20 Jun 2025 19:15	RC/JU	Ok
8	SSTDICC3.2	BN037358.D	20 Jun 2025 19:51	RC/JU	Ok
9	SSTDICC5.0	BN037359.D	20 Jun 2025 20:27	RC/JU	Ok
10	SSTDICV0.4	BN037360.D	20 Jun 2025 21:39	RC/JU	Ok,M
11	PB168563BL	BN037361.D	20 Jun 2025 22:16	RC/JU	Ok
12	Q2377-01	BN037362.D	20 Jun 2025 22:52	RC/JU	Ok
13	PB168563BS	BN037363.D	20 Jun 2025 23:28	RC/JU	Ok
14	PB168563BSD	BN037364.D	21 Jun 2025 00:04	RC/JU	Ok,M
15	SSTDCCC0.4	BN037365.D	21 Jun 2025 01:17	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062125

Review By	Rahul	Review On	6/24/2025 9:00:26 AM
Supervise By	Jagrut	Supervise On	6/24/2025 3:20:40 PM
SubDirectory	BN062125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062125

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	SP6757 SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	SP6779 SP6740,1ul/100ul sample SP6768

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037351.D	20 Jun 2025 15:00		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037352.D	20 Jun 2025 16:15	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037353.D	20 Jun 2025 16:51		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037354.D	20 Jun 2025 17:27		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037355.D	20 Jun 2025 18:03	Calibration is good for DOD and nondod	RC/JU	Ok,M
6	SSTDICC0.8	SSTDICC0.8	BN037356.D	20 Jun 2025 18:39		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037357.D	20 Jun 2025 19:15		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037358.D	20 Jun 2025 19:51		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037359.D	20 Jun 2025 20:27		RC/JU	Ok
10	SSTDICV0.4	ICVBN062125	BN037360.D	20 Jun 2025 21:39		RC/JU	Ok,M
11	PB168563BL	PB168563BL	BN037361.D	20 Jun 2025 22:16		RC/JU	Ok
12	Q2377-01	PW-B6-L66-061925	BN037362.D	20 Jun 2025 22:52		RC/JU	Ok
13	PB168563BS	PB168563BS	BN037363.D	20 Jun 2025 23:28	.	RC/JU	Ok
14	PB168563BSD	PB168563BSD	BN037364.D	21 Jun 2025 00:04		RC/JU	Ok,M
15	SSTDCCC0.4	SSTDCCC0.4EC	BN037365.D	21 Jun 2025 01:17		RC/JU	Ok,M

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	06/20/2025
Matrix :	Water	Extraction Start Time :	09:32
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Extraction End Date :	06/20/2025
Balance ID:	N/A	Filter By:	RJ
pH Strip Lot#:	E3880	Extraction End Time :	16:30
		Concentration By:	EH
		Supervisor By :	RUPESH
Extraction Method:	☒ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet		

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	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	E3943
Baked Na2SO4	N/A	EP2622
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. Q2373,Q2374,Q2375 & Q2377 all samples added at 12:03 P.M.

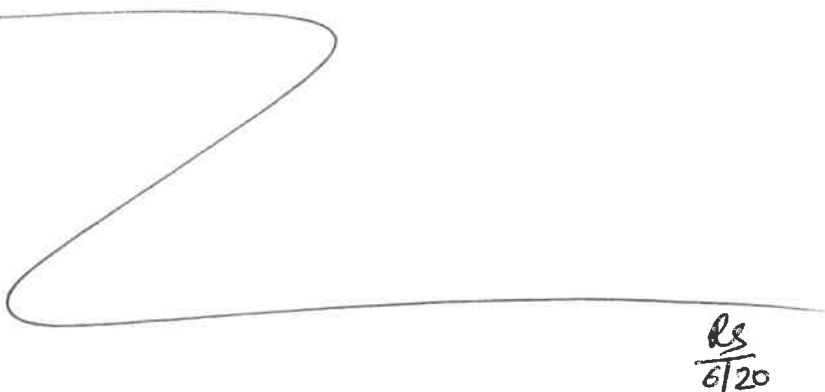
KD Bath ID:	WATER BATH-1,2	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Recelved By/Location
6/20/25	RS (E4 Lab)	R/svor
16:35	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 06/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168563BL	SBLK563	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			SEP-1
PB168563BS	SLCS563	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			2
PB168563BS D	SLCSD563	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			3
Q2345-01	EB02-20250616	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		4
Q2345-13	TT189D2-2050617	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		5
Q2345-14	TT150S1-2050617	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		6
Q2345-15	RW8-MW01D1-20250617	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		7
Q2345-16	TT192D2-2050617	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		8
Q2361-01	TT205S1-20250617	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		9
Q2372-01	GAV1W	SVOC-SIMGrou p1	970	6	RUPESEH	ritesh	1	E		10
Q2373-01	RW5-SP100-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			11
Q2373-02	RW5-SP201-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			12
Q2373-03	RW5-SP303-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			13
Q2374-01	RW7-SP100-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			14
Q2374-02	RW7-SP201-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			15
Q2374-03	RW7-SP302-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			16
Q2374-04	RW7-SP303-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			SEP-1
Q2375-01	RW8-SP100-20250619	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	D		2
Q2375-02	RW8-SP303-20250619	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	D		3
Q2377-01	PW-B6-L66-061925	SVOC-SIMGrou p1	980	6	RUPESEH	ritesh	1	D		4



1685822
6/20/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2361		WorkList ID : 190289		Department : Extraction		Date : 06-20-2025 09:26:55	
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method
Q2345-01	EB02-20250616	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/16/2025 8270-Modified
Q2345-13	TT189D2-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025 8270-Modified
Q2345-14	TT150S1-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025 8270-Modified
Q2345-15	RW8-MW01D1-20250617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025 8270-Modified
Q2345-16	TT192D2-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025 8270-Modified
Q2361-01	TT205S1-20250617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/17/2025 8270-Modified
Q2372-01	GAV1W	Water	SVOC-SIMGroup1	Cool 4 deg C	GENV01	D51	06/19/2025 8270-Modified

Date/Time 6/20/25 9:27
Raw Sample Received by: RS (Ext-196)
Raw Sample Relinquished by: APR

Date/Time 6/20/25 10:10
Raw Sample Received by: APR
Raw Sample Relinquished by: RS (Ext-196)

169567

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2373

WorkList ID : 190300

Department : Extraction

Date : 06-20-2025 12:02:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2373-01	RW5-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2373-02	RW5-SP201-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2373-03	RW5-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-01	RW7-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-02	RW7-SP201-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-03	RW7-SP302-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-04	RW7-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2375-01	RW8-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2375-02	RW8-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2377-01	PW-B6-L66-061925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D51	06/19/2025	8270-Modified

Date/Time 6/20/25 12:03

Raw Sample Received by: RS (Ext-06)

Raw Sample Relinquished by: [Signature]

Date/Time 6/20/25 12:35

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: RS (Ext-06)

Prep Standard - Chemical Standard Summary

Order ID : Q2377

Test : SVOC-SIMGroup1

Prepbatch ID : PB168563,

Sequence ID/Qc Batch ID: BN062125,

Standard ID :

EP2609,EP2610,EP2622,SP6740,SP6756,SP6757,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,SP6831,

Chemical ID :

1ul/100ul

sample,E3551,E3657,E3874,E3902,E3904,E3926,E3940,E3943,M6157,S10104,S 11496,S11650,S11788,S11828,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,W3112,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<u>FROM</u> 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025
<u>FROM</u>	1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2622	06/13/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/16/2025
<u>FROM</u> 4000.00000gram of E3551 = Final Quantity: 4000.000 gram								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025
<u>FROM</u> 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed
								04/07/2025

FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml 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



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025
<u>FROM</u>	SOURCE 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 + 0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025
SOURCE FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = Final Quantity: 1.010 ml								



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

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

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6776	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6777	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = Final Quantity: 1.010 ml

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	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6779	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = Final Quantity: 1.010 ml

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	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml



<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
<u>FROM</u> 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

CHEMICAL RECEIPT LOG BOOK

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	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	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 #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

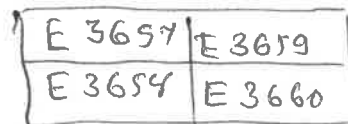
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μeq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

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

Recd 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)

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	$\leq 1.0 \text{ ppm}$	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

 **avantor**™



Material No.: 9673-33
Batch No.: 2411262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Page 1 of 1

Catalog No.: Lot No.:	Storage:	Solvent:	Exp. Date:	Rev	Description:
Z-110094-02 506889	≤ -10 °C	Methylene Chloride	7/25/2028	0	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄		2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl		321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5		4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14		1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓ 08/11/2023
511498

*Not a certified value

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



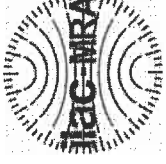
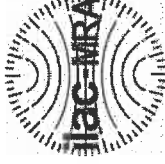
110 Benner Circle
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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555872 Lot No.: A0201728
Description: Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol,
1mL/ampul
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: September 30, 2026 Storage: 10°C or colder
Ship: Ambient

511649
↓
511658
Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

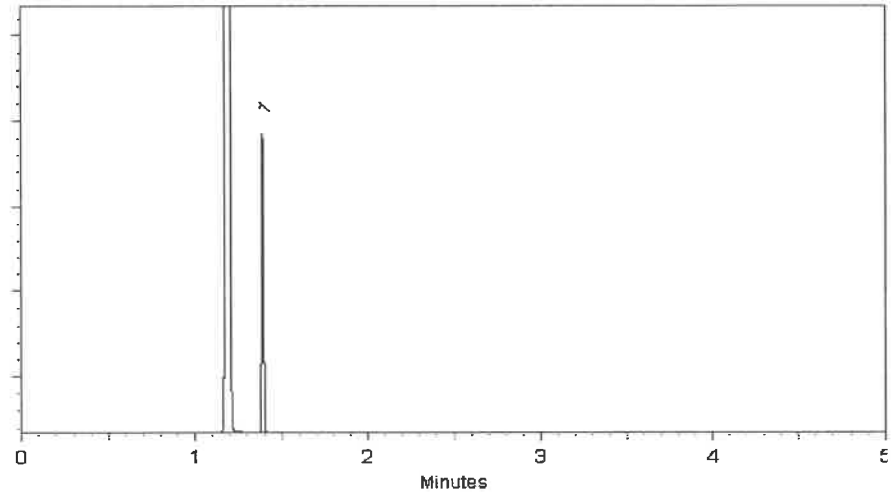
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

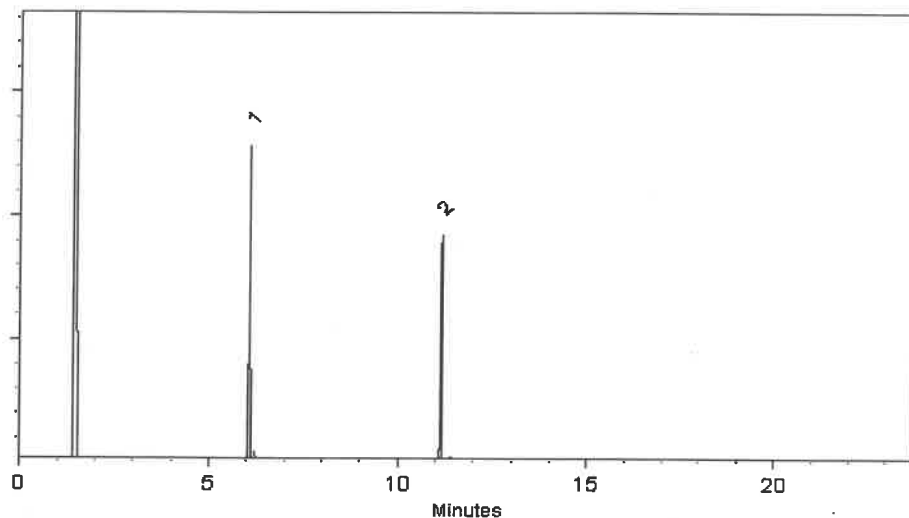
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

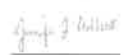


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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:

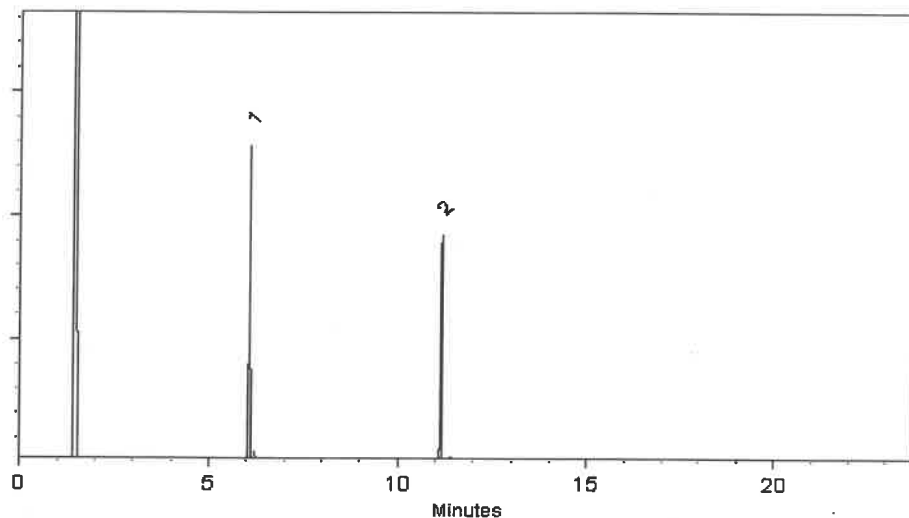
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

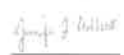


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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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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-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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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. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

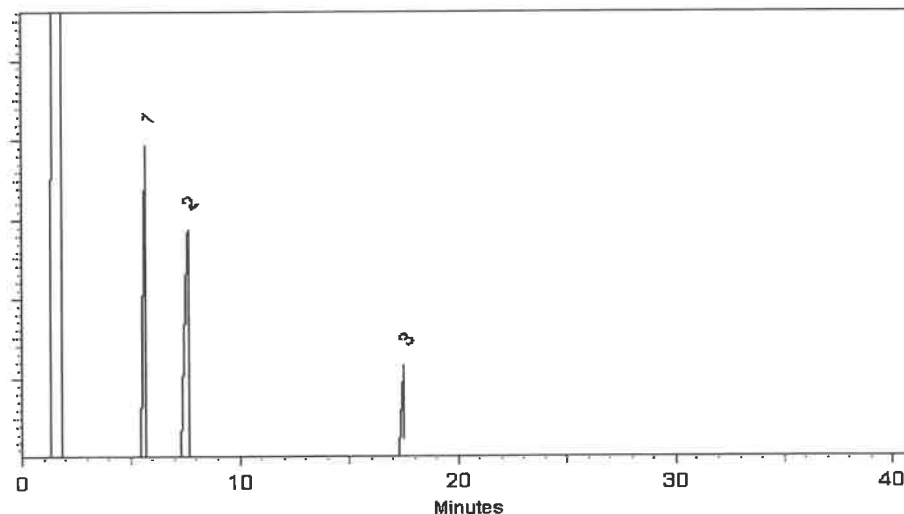
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-S (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

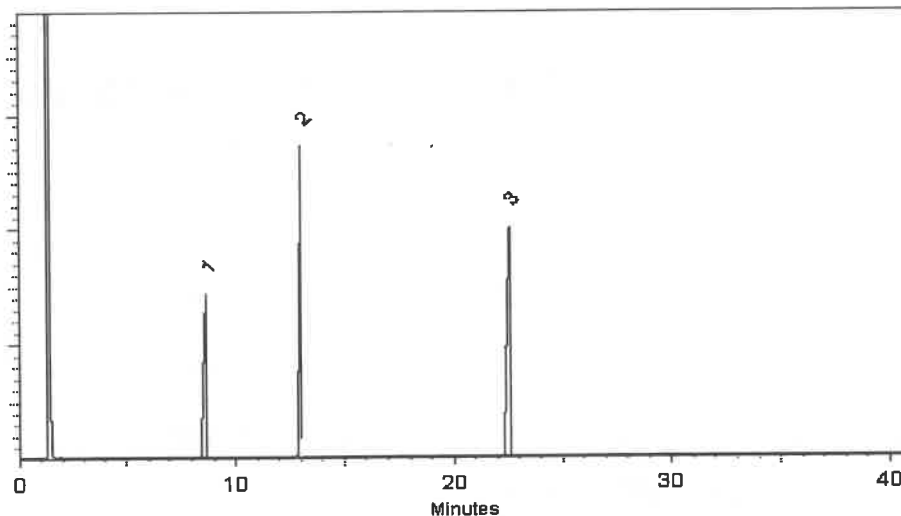
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

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



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: _____

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Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

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Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓ 7/24/24
S12508 }

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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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chromatographic plus



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

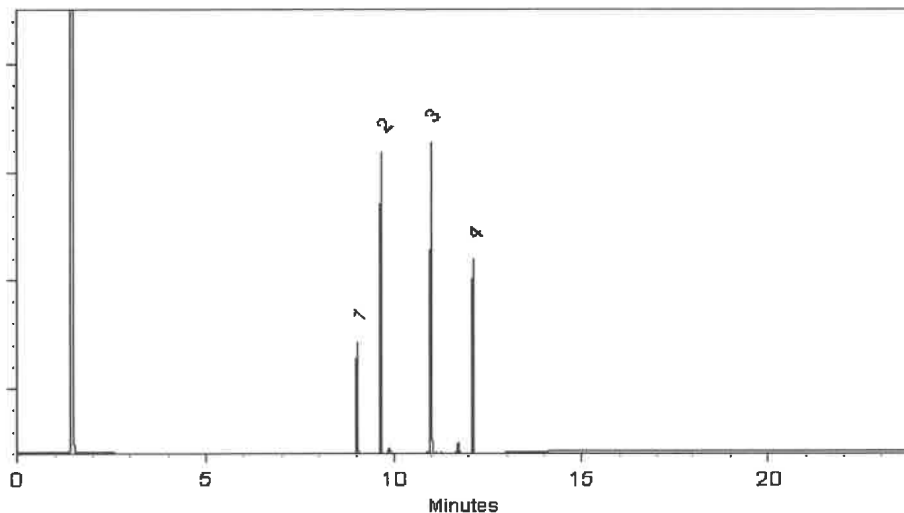
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

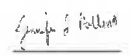


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~
↓
~~512284~~ } RCL
05/24/24

New Numbers Generated.

512790
↓
512794 } RCL
11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

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www.chemtech.net

CHEMTECH PROJECT NO. Q2377
QUOTE NO.
COC Number 2039472

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt. Kemble Ave., Ste. 100
CITY: Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Infante John Infante@Jacobs.com
PHONE: _____ FAX: _____

CLIENT PROJECT INFORMATION

PROJECT NAME: STC Princeton
PROJECT NO.: D3868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: _____ FAX: _____

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#: _____
ADDRESS: _____
CITY: _____ STATE: _____ ZIP: _____
ATTENTION: _____ PHONE: _____

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) ★ RUSH TAT (2 Day) ★ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☒ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1 Site specific VOCs
2 1,4 Dioxane (8270-SIM)
3 VOCs (SPAM01.1-SIM)
4 LVC only

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		A/E	E	A/E							
1.	PW-B6-L66-061925	AQ		X	6/19/05	11:00	5	X	X								
2.	PW-B6-L66-061925-SIM	AQ		X		11:00	3			X							
3.	PW-B6-L66-061925-FD ^{AM 6/19/05}	AQ		X		11:05	5	X	X								
4.	PW-B6-L66-061925-SIM-FD ^{AM 6/19/05}	AQ		X		11:05	3			X							
5.	TBO1-061925	D1		X		—	2	X									
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP	2.3 °C IF Com 1
1. <u>[Signature]</u>	<u>6/19/05 17:10</u>	1. <u>[Signature]</u>	Comments: <u>See work order for list of site specific VOCs</u>	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
2.		2.		
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
3.		3.		

Page 1 of 1

CLIENT: ☒ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2377	JACO05	Order Date : 6/20/2025 11:23:00 AM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 3 <i>all</i>
Client Contact : John Ynfante		Receive DateTime : 6/19/2025 5:10:00 PM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2377-01	PW-B6-L66-061925	Water	06/19/2025	11:10:00	VOCMS Group3		524.2 <i>all</i> 8260-Low		2 Bus. Days
Q2377-02	PW-B6-L66-061925-SIM	Water	06/19/2025	11:10:00	VOC-SIM		SFAM_VOCSIM		2 Bus. Days
Q2377-03	TB01-061925	Water	06/19/2025	11:00 11:10:00	VOCMS Group3		524.2 8260-Low		2 Bus. Days

Relinquished By : *af*

Date / Time : 6/20/25 1150

Received By : *Samm*

Date / Time : 06/20/25

Storage Area : VOA Refridgerator Room