

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NAVFAC NWIRP BETHPAGE, NY SITE 1 OU-2 - 32258

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q2329

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



1) SEMI-VOLATILE DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For SVOC-SIMGroup1	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) MS/MSD Summary	16
9.3) LCS/LCSD Summary	18
9.4) Method Blank Summary	19
9.5) GS/MS Tune Summary	20
9.6) Internal Standard Area and RT Summary	22
10) Sample Data	24
10.1) TT192D1-20250611	25
10.2) TT188S1-20250612	36
10.3) TT119S1-20250612	47
10.4) FB01-20250613	58
10.5) TT162S1-20250613	69
10.6) TT149S1-20250613	80
10.7) TT172S1-20250613	91
10.8) DUP04-20250613	107
10.9) EB01-20250613	118
10.10) TT163S1-20250613	129
11) Calibration Data Summary	140
11.1) Initial Calibration Data	141
11.1.1) BN061925	141
11.2) Continued Calibration Data	326
11.2.1) BN037323.D	326
11.2.2) BN037338.D	352
12) QC Sample Data	378
12.1) Tune Raw Data	379
12.2) Method Blank Data	387

Table Of Contents for Q2329

12.3) LCS Data	397
12.4) MS Data	421
12.5) MSD Data	445
13) Manual Integration	469
14) Analytical Runlogs	470
15) Extraction Logs	474
15.1) PB168508.pdf	474
15.2) PB168508IC.pdf	476
16) Standard Prep Logs	477
17) Shipping Document	531
17.1) Chain Of Custody	532
17.2) Lab Certificate	534
17.3) Internal COC	535
18) Not Reviewed Data	538

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

Cover Page

Order ID : Q2329

Project ID : NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q2329-01
Q2329-02
Q2329-03
Q2329-04
Q2329-05
Q2329-06
Q2329-07
Q2329-08
Q2329-09
Q2329-10
Q2329-11
Q2329-12
Q2329-13
Q2329-14
Q2329-15
Q2329-16
Q2329-17
Q2329-18

Client Sample Number

TT192D1-20250611
TT188S1-20250612
TT119S1-20250612
FB01-20250613
TT162S1-20250613
BPOW6-7-20250613
BPOW6-8-20250613
BPOW6-11-20250613
TT149S1-20250613
TT172S1-20250613
TT172S1-20250613MS
TT172S1-20250613MSD
DUP03-20250613
DUP04-20250613
EB01-20250613
TB01-20250612
TB02-20250612
TT163S1-20250613

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: 6/26/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



CASE NARRATIVE

AECOM Technical Services, Inc.

Project Name: NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258

Project # N/A

Order ID # Q2329

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

18 Water samples were received on 06/13/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for TT172S1-20250613MS [Terphenyl-d14 - 134%] and TT172S1-20250613MSD [Terphenyl-d14 - 133%]. The Failure Surrogate is not Associated with DOD Parameter list, Therefore no Corrective Action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q2329-11MS} with File ID: BN037326.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-24%]. due to matrix interference.

The MSD {Q2329-12MSD} with File ID: BN037327.D recoveries met the acceptable requirements except for 1,4-Dioxane[-25%]. due to matrix interference.

The RPD met criteria.

The Blank Spike met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.



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

The Tuning criteria met requirements.

E. Additional Comments:

The sample # TT172S1-20250613MS and TT172S1-20250613MSD is failing for 1,4-Dioxane and the original sample(TT172S1-20250613) is reported with M flag for this compounds.

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q2329

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. The Surrogate recoveries met the acceptable criteria except for TT172S1-20250613MS [Terphenyl-d14 - 134%] and TT172S1-20250613MSD [Terphenyl-d14 - 133%]. The Failure Surrogate is not Associated with DOD Parameter list, Therefore no Corrective Action was taken.		✓	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {Q2329-11MS} with File ID: BN037326.D recoveries met the requirements for all compounds except for 1,4-Dioxane[-24%] . due to matrix interference. The MSD {Q2329-12MSD} with File ID: BN037327.D recoveries met the acceptable requirements except for 1,4-Dioxane[-25%] . due to matrix interference. The Blank Spike 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 sample # TT172S1-20250613MS and TT172S1-20250613MSD is failing for 1,4-Dioxane and the original Sample (TT172S1-20250613) is reported with M flag for this compounds.

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

The not QT review data is reported in the Miscellaneous.

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

 QA REVIEW

 Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2329

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/26/2025

LAB CHRONICLE

OrderID:	Q2329	OrderDate:	6/13/2025 2:09:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	D51,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2329-01	TT192D1-20250611	Water	SVOC-SIMGroup1	8270-Modified	06/11/25	06/17/25	06/19/25	06/13/25
Q2329-02	TT188S1-20250612	Water	SVOC-SIMGroup1	8270-Modified	06/12/25	06/17/25	06/19/25	06/13/25
Q2329-03	TT119S1-20250612	Water	SVOC-SIMGroup1	8270-Modified	06/12/25	06/17/25	06/19/25	06/13/25
Q2329-04	FB01-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-05	TT162S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-09	TT149S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-10	TT172S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/18/25	06/13/25
Q2329-14	DUP04-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-15	EB01-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25
Q2329-18	TT163S1-20250613	Water	SVOC-SIMGroup1	8270-Modified	06/13/25	06/17/25	06/19/25	06/13/25

Hit Summary Sheet SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	TT192D1-20250611							
Q2329-01	TT192D1-20250611	WATER	1,4-Dioxane	1.600	0.07	0.22	0.22	ug/L
			Total Svoc :	1.60				
			Total Concentration:	1.60				
Client ID :	TT188S1-20250612							
Q2329-02	TT188S1-20250612	WATER	1,4-Dioxane	0.120 J	0.07	0.2	0.2	ug/L
			Total Svoc :	0.12				
			Total Concentration:	0.12				
Client ID :	TT162S1-20250613							
Q2329-05	TT162S1-20250613	WATER	1,4-Dioxane	0.200	0.07	0.2	0.2	ug/L
			Total Svoc :	0.20				
			Total Concentration:	0.20				
Client ID :	TT149S1-20250613							
Q2329-09	TT149S1-20250613	WATER	1,4-Dioxane	0.240	0.07	0.2	0.2	ug/L
			Total Svoc :	0.24				
			Total Concentration:	0.24				
Client ID :	TT172S1-20250613							
Q2329-10	TT172S1-20250613	WATER	1,4-Dioxane	1.600 M	0.07	0.2	0.2	ug/L
			Total Svoc :	1.60				
			Total Concentration:	1.60				
Client ID :	DUP04-20250613							
Q2329-14	DUP04-20250613	WATER	1,4-Dioxane	0.270	0.07	0.21	0.21	ug/L
			Total Svoc :	0.27				
			Total Concentration:	0.27				
Client ID :	TT163S1-20250613							
Q2329-18	TT163S1-20250613	WATER	1,4-Dioxane	0.520	0.07	0.2	0.2	ug/L
			Total Svoc :	0.52				
			Total Concentration:	0.52				



QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168508BL	PB168508BL	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.45	113		30	150
		Nitrobenzene-d5	0.4	0.35	87		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.42	106		58	132
PB168508BS	PB168508BS	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.33	82		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.37	92		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
Q2329-01	TT192D1-20250611	2-Methylnaphthalene-d10	0.4	0.30	75		30	150
		Fluoranthene-d10	0.4	0.39	96		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.31	77		53	106
		Terphenyl-d14	0.4	0.38	96		58	132
Q2329-02	TT188S1-20250612	2-Methylnaphthalene-d10	0.4	0.34	85		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.48	119		58	132
Q2329-03	TT119S1-20250612	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.46	114		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q2329-04	FB01-20250613	2-Methylnaphthalene-d10	0.4	0.40	100		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.32	80		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.50	124		58	132
Q2329-05	TT162S1-20250613	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.30	76		55	111
		2-Fluorobiphenyl	0.4	0.36	90		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q2329-09	TT149S1-20250613	2-Methylnaphthalene-d10	0.4	0.31	77		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.31	79		53	106
		Terphenyl-d14	0.4	0.44	111		58	132
Q2329-10	TT172S1-20250613	2-Methylnaphthalene-d10	0.4	0.42	104		30	150
		Fluoranthene-d10	0.4	0.44	111		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q2329-11MS	TT172S1-20250613MS	2-Methylnaphthalene-d10	0.4	0.39	98		30	150
		Fluoranthene-d10	0.4	0.43	108		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.54	134	*	58	132
Q2329-12MSD	TT172S1-20250613MSD	2-Methylnaphthalene-d10	0.4	0.36	90		30	150

Surrogate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2329-12MSD	TT172S1-20250613MSD	Fluoranthene-d10	0.4	0.45	111		30	150
		Nitrobenzene-d5	0.4	0.32	81		55	111
		2-Fluorobiphenyl	0.4	0.36	91		53	106
		Terphenyl-d14	0.4	0.53	133	*	58	132
Q2329-14	DUP04-20250613	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.42	104		30	150
		Nitrobenzene-d5	0.4	0.31	76		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
Q2329-15	EB01-20250613	Terphenyl-d14	0.4	0.47	118		58	132
		2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.41	102		30	150
		Nitrobenzene-d5	0.4	0.32	79		55	111
Q2329-18	TT163S1-20250613	2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
		2-Methylnaphthalene-d10	0.4	0.35	87		30	150
		Fluoranthene-d10	0.4	0.49	123		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.33	83		53	106
		Terphenyl-d14	0.4	0.44	111		58	132

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2329-11MS		Client Sample ID: TT172S1-20250613MS						DataFile: BN037326.D			
1,4-Dioxane	0.41	1.60	1.50	ug/L	-24	*			70	130	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q2329-12MSD		Client Sample ID: TT172S1-20250613MSD							DataFile: BN037327.D		
1,4-Dioxane	0.4	1.60	1.50	ug/L	-25	*	4		70	130	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2329

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN037337.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168508BS	1,4-Dioxane	0.4	0.44	ug/L	110				70	130	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168508BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q2329

SAS No.: Q2329 SDG NO.: Q2329

Lab File ID: BN037324.D

Lab Sample ID: PB168508BL

Instrument ID: BNA_N

Date Extracted: 06/17/2025

Matrix: (soil/water) Water

Date Analyzed: 06/18/2025

Level: (low/med) LOW

Time Analyzed: 22:02

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168508BS	PB168508BS	BN037337.D	06/19/2025
TT192D1-20250611	Q2329-01	BN037328.D	06/19/2025
TT188S1-20250612	Q2329-02	BN037329.D	06/19/2025
TT119S1-20250612	Q2329-03	BN037330.D	06/19/2025
FB01-20250613	Q2329-04	BN037331.D	06/19/2025
TT172S1-20250613	Q2329-10	BN037325.D	06/18/2025
TT172S1-20250613MS	Q2329-11MS	BN037326.D	06/18/2025
TT172S1-20250613MSD	Q2329-12MSD	BN037327.D	06/18/2025
TT162S1-20250613	Q2329-05	BN037332.D	06/19/2025
TT149S1-20250613	Q2329-09	BN037333.D	06/19/2025
DUP04-20250613	Q2329-14	BN037334.D	06/19/2025
EB01-20250613	Q2329-15	BN037335.D	06/19/2025
TT163S1-20250613	Q2329-18	BN037336.D	06/19/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2329 SDG NO.: Q2329Lab File ID: BN037312.DDFTPP Injection Date: 06/18/2025Instrument ID: BNA_NDFTPP Injection Time: 13:27

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	0.1 (0.3) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
365	Greater than 1% of mass 198	7.2
441	Present, but less than mass 443	78.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.9 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037313.D	06/18/2025	14:06
SSTDICC0.2	SSTDICC0.2	BN037314.D	06/18/2025	14:42
SSTDICCC0.4	SSTDICCC0.4	BN037315.D	06/18/2025	15:18
SSTDICC0.8	SSTDICC0.8	BN037316.D	06/18/2025	15:55
SSTDICC1.6	SSTDICC1.6	BN037317.D	06/18/2025	16:31
SSTDICC3.2	SSTDICC3.2	BN037318.D	06/18/2025	17:07
SSTDICC5.0	SSTDICC5.0	BN037319.D	06/18/2025	17:43



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2329SDG NO.: Q2329Lab File ID: BN037322.DDFTPP Injection Date: 06/18/2025Instrument ID: BNA_NDFTPP Injection Time: 20:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.1 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	7.8
441	Present, but less than mass 443	85.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	15.1 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037323.D	06/18/2025	21:26
PB168508BL	PB168508BL	BN037324.D	06/18/2025	22:02
TT172S1-20250613	Q2329-10	BN037325.D	06/18/2025	22:39
TT172S1-20250613MS	Q2329-11MS	BN037326.D	06/18/2025	23:15
TT172S1-20250613MSD	Q2329-12MSD	BN037327.D	06/18/2025	23:52
TT192D1-20250611	Q2329-01	BN037328.D	06/19/2025	00:28
TT188S1-20250612	Q2329-02	BN037329.D	06/19/2025	01:04
TT119S1-20250612	Q2329-03	BN037330.D	06/19/2025	01:41
FB01-20250613	Q2329-04	BN037331.D	06/19/2025	02:17
TT162S1-20250613	Q2329-05	BN037332.D	06/19/2025	02:53
TT149S1-20250613	Q2329-09	BN037333.D	06/19/2025	03:29
DUP04-20250613	Q2329-14	BN037334.D	06/19/2025	04:05
EB01-20250613	Q2329-15	BN037335.D	06/19/2025	04:42
TT163S1-20250613	Q2329-18	BN037336.D	06/19/2025	05:18
PB168508BS	PB168508BS	BN037337.D	06/19/2025	05:54
SSTDCCC0.4EC	SSTDCCC0.4	BN037338.D	06/19/2025	07:06

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/18/2025

Lab File ID: BN037323.D Time Analyzed: 21:26

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	749	7.575	1639	10.35	1188	14.22
UPPER LIMIT	1498	8.075	3278	10.851	2376	14.724
LOWER LIMIT	374.5	7.075	819.5	9.851	594	13.724
EPA SAMPLE NO.						
01 PB168508BL	562	7.58	1150	10.36	831	14.22
02 TT172S1-20250613	552	7.58	1224	10.35	954	14.22
03 TT192D1-20250611	631	7.58	1435	10.35	1064	14.22
04 TT188S1-20250612	805	7.58	1809	10.35	1315	14.22
05 TT119S1-20250612	676	7.58	1473	10.35	1030	14.22
06 FB01-20250613	726	7.57	1555	10.35	1144	14.22
07 PB168508BS	1288	7.57	2690	10.34	1686	14.21
08 TT162S1-20250613	715	7.58	1482	10.35	1103	14.22
09 TT149S1-20250613	693	7.57	1543	10.35	1129	14.22
10 TT172S1-20250613MS	620	7.57	1373	10.35	997	14.22
11 TT172S1-20250613MSD	652	7.57	1479	10.35	1035	14.22
12 DUP04-20250613	756	7.57	1697	10.35	1190	14.21
13 EB01-20250613	786	7.57	1733	10.35	1237	14.22
14 TT163S1-20250613	800	7.57	1772	10.35	1339	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.: Q2329 SAS No.: Q2329 SDG NO.: Q2329

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/18/2025

Lab File ID: BN037323.D Time Analyzed: 21:26

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	2584	16.971	2436	21.171	2490	23.357
	UPPER LIMIT	5168	17.471	4872	21.671	4980	23.857
	LOWER LIMIT	1292	16.471	1218	20.671	1245	22.857
	EPA SAMPLE NO.						
01	PB168508BL	1490	16.98	1687	21.18	1359	23.37
02	TT172S1-20250613	1976	16.97	2039	21.17	2136	23.36
03	TT192D1-20250611	2175	16.97	2468	21.17	2823	23.35
04	TT188S1-20250612	2637	16.97	2639	21.17	2745	23.36
05	TT119S1-20250612	2192	16.97	2323	21.17	2519	23.36
06	FB01-20250613	2312	16.97	2354	21.17	2632	23.35
07	PB168508BS	3212	16.97	3029	21.17	3232	23.35
08	TT162S1-20250613	2287	16.97	2301	21.17	2452	23.36
09	TT149S1-20250613	2488	16.97	2574	21.17	2711	23.35
10	TT172S1-20250613MS	2208	16.97	2274	21.17	2391	23.36
11	TT172S1-20250613MSD	2193	16.97	2332	21.17	2470	23.35
12	DUP04-20250613	2601	16.97	2687	21.17	2780	23.35
13	EB01-20250613	2666	16.97	2615	21.17	2770	23.35
14	TT163S1-20250613	3031	16.97	3753	21.17	4134	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

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

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/11/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT192D1-20250611	SDG No.:	Q2329
Lab Sample ID:	Q2329-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	910 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
BN037328.D	1	06/17/25 08:55	06/19/25 00:28	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.60		0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.30		30 - 150		75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		96%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		77%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		96%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	631	7.575				
1146-65-2	Naphthalene-d8	1440	10.351				
15067-26-2	Acenaphthene-d10	1060	14.224				
1517-22-2	Phenanthrene-d10	2180	16.971				
1719-03-5	Chrysene-d12	2470	21.171				
1520-96-3	Perylene-d12	2820	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\BN061925\
Data File : BN037328.D
Acq On : 19 Jun 2025 00:28
Operator : RC/JU
Sample : Q2329-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611

Quant Time: Jun 19 02:41:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

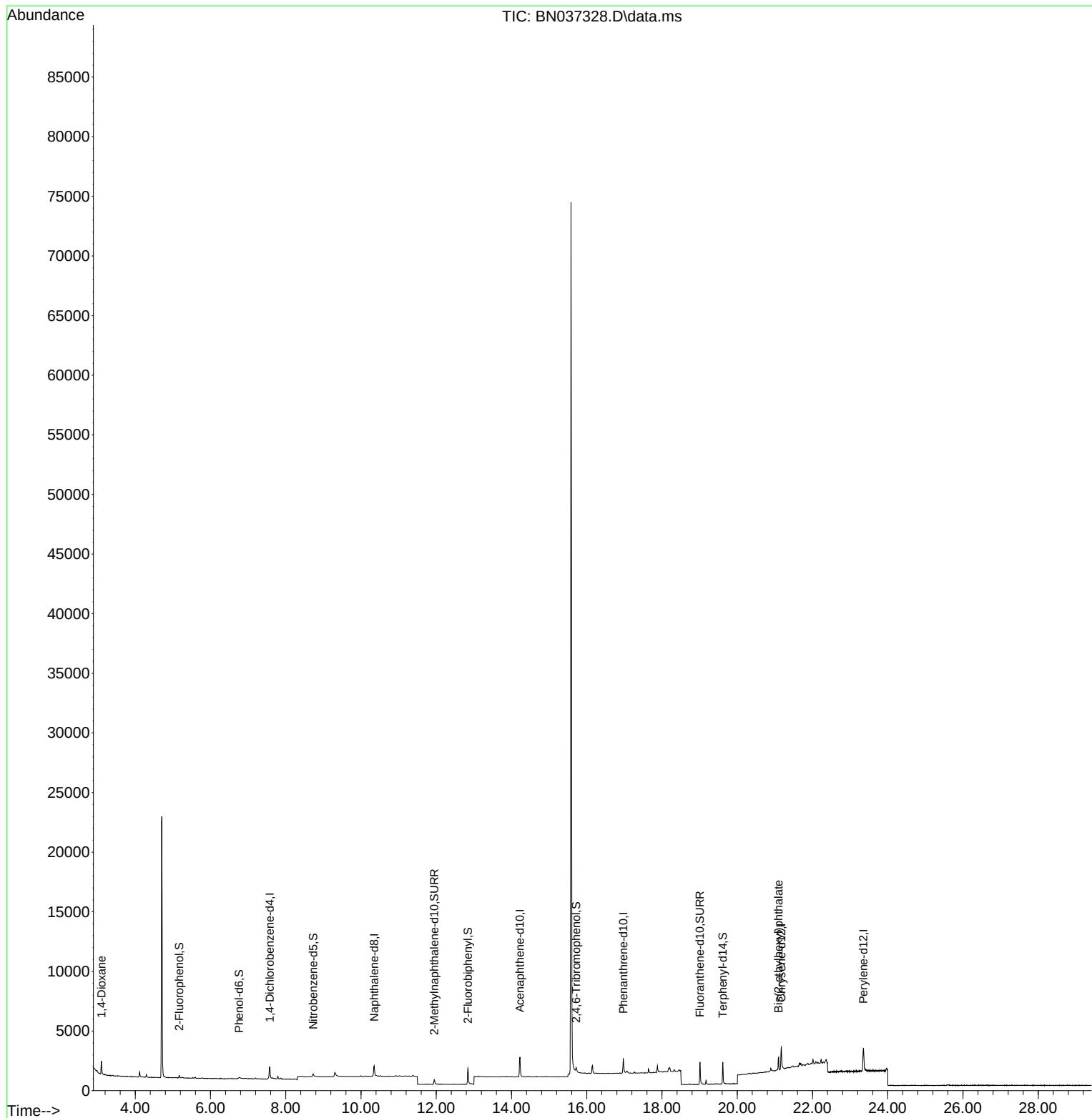
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	631	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1435	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1064	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2175	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2468	0.400	ng	0.00
35) Perylene-d12	23.351	264	2823	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	165	0.144	ng	0.00
5) Phenol-d6	6.759	99	108	0.096	ng	0.00
8) Nitrobenzene-d5	8.728	82	304	0.254	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	698	0.299	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	235	0.299	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1442	0.309	ng	0.00
27) Fluoranthene-d10	19.008	212	2654	0.385	ng	0.00
31) Terphenyl-d14	19.616	244	2172	0.384	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	797	1.415	ng	# 86
34) Bis(2-ethylhexyl)phtha...	21.099	149	1034	0.317	ng	97

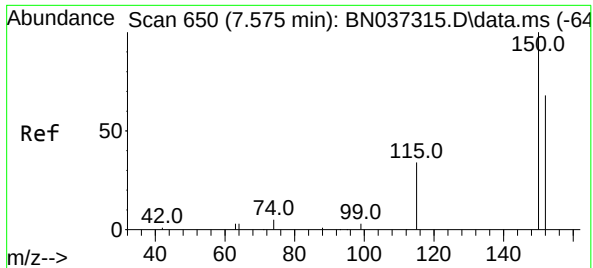
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037328.D
Acq On : 19 Jun 2025 00:28
Operator : RC/JU
Sample : Q2329-01
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611

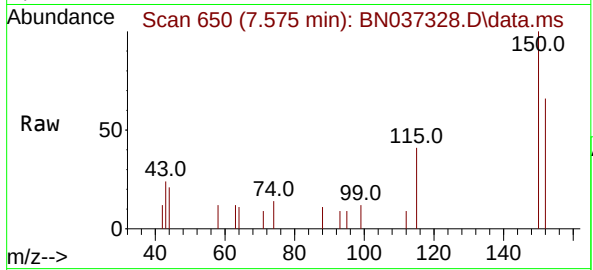
Quant Time: Jun 19 02:41:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration



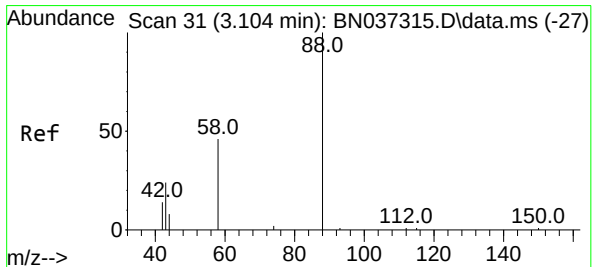
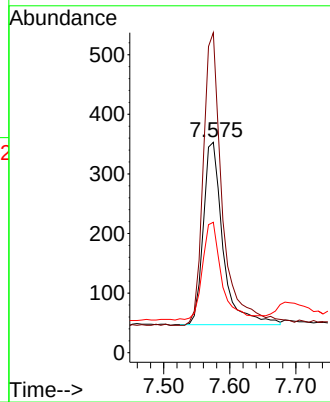
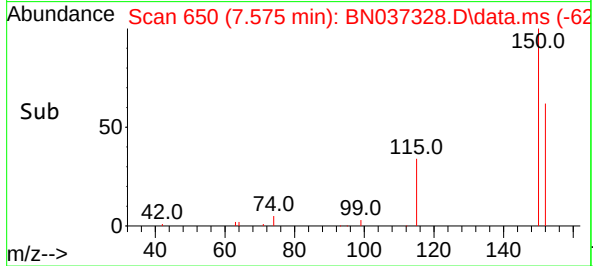


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

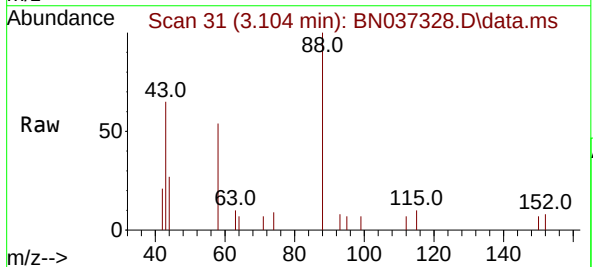
Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611



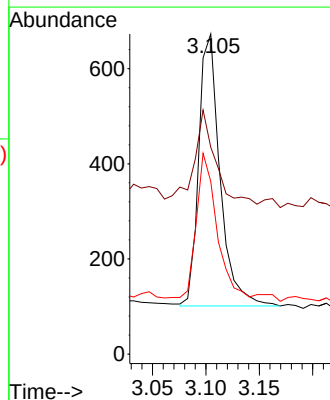
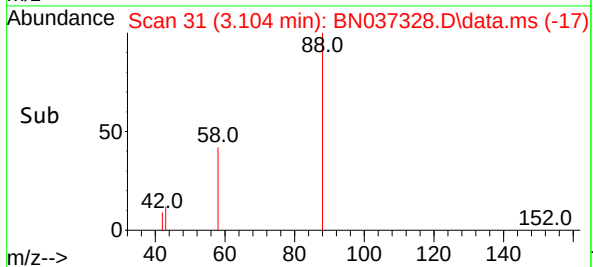
Tgt Ion:152 Resp: 631
Ion Ratio Lower Upper
152 100
150 152.1 112.7 169.1
115 62.0 45.9 68.9

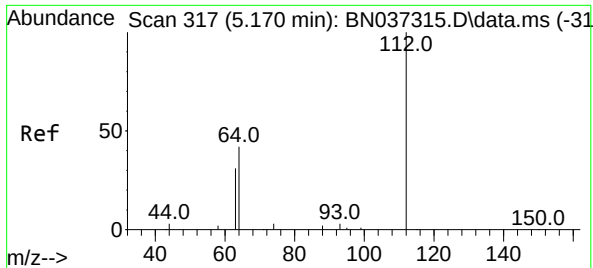


#2
1,4-Dioxane
Concen: 1.415 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28



Tgt Ion: 88 Resp: 797
Ion Ratio Lower Upper
88 100
43 34.5 21.0 31.6#
58 56.6 38.0 57.0

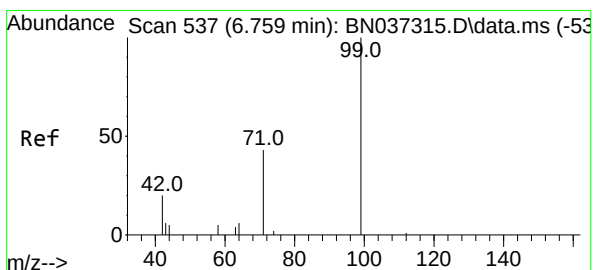
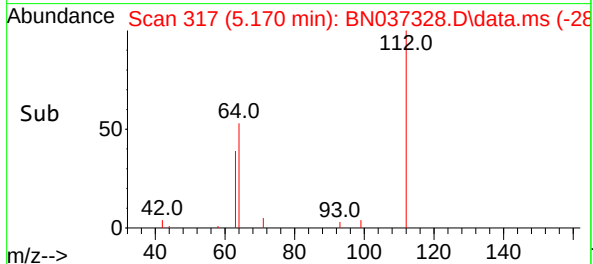
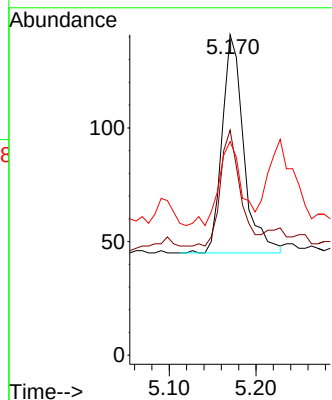
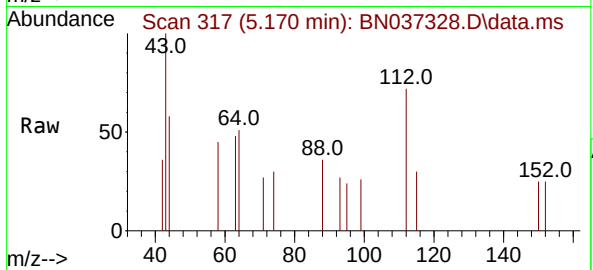




#4
2-Fluorophenol
Concen: 0.144 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

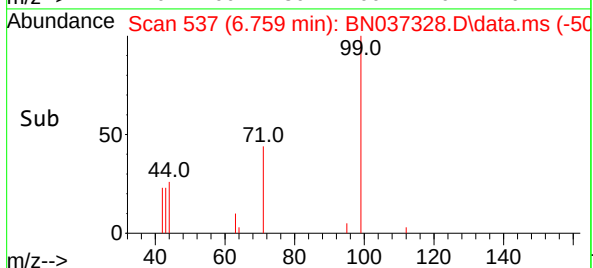
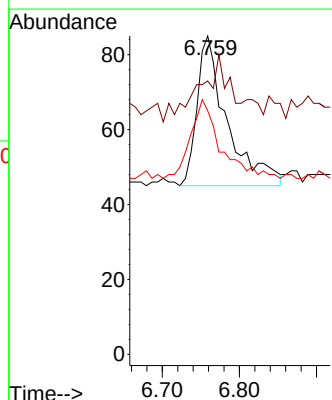
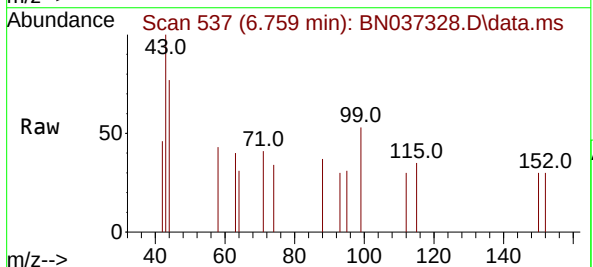
Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611

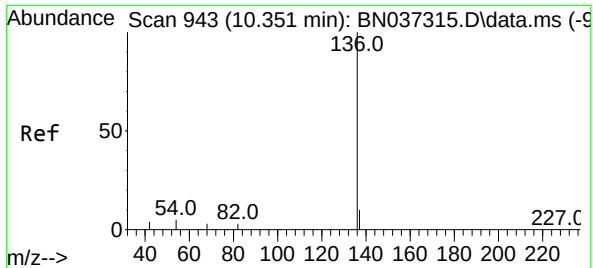
Tgt Ion:112 Resp: 165
Ion Ratio Lower Upper
112 100
64 53.3 38.7 58.1
63 40.0 26.4 39.6#



#5
Phenol-d6
Concen: 0.096 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

Tgt Ion: 99 Resp: 108
Ion Ratio Lower Upper
99 100
42 0.0 19.8 29.8#
71 52.8 42.6 64.0

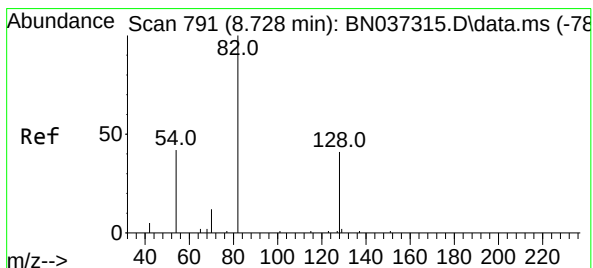
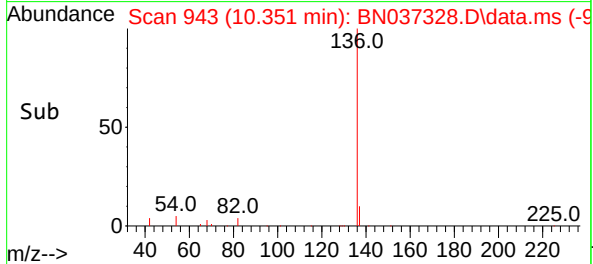
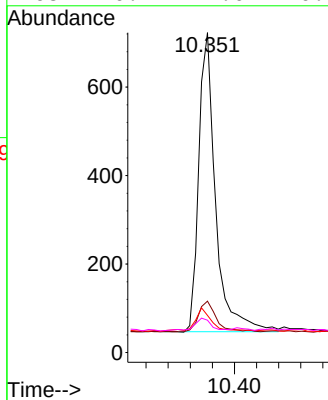
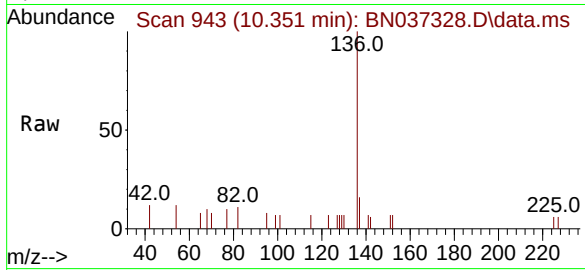




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

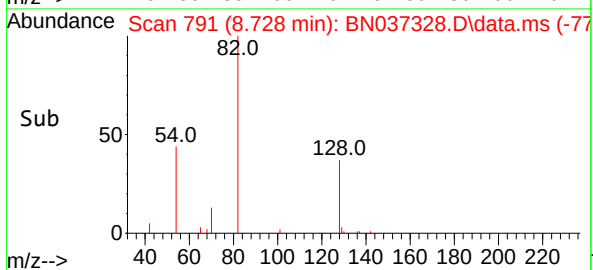
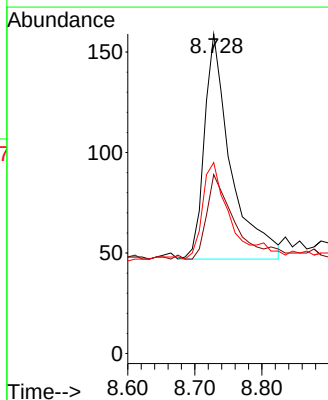
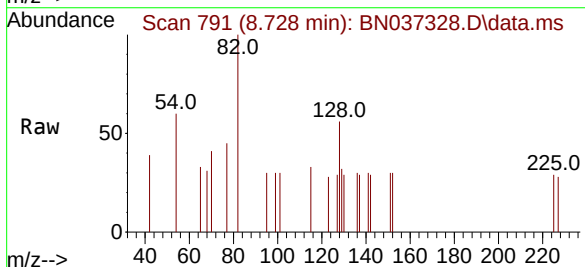
Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611

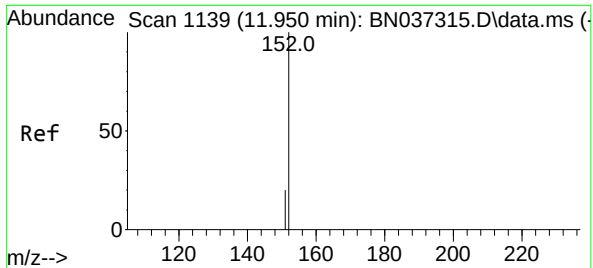
Tgt Ion:	136	Resp:	1435
Ion	Ratio	Lower	Upper
136	100		
137	16.0	12.2	18.2
54	11.6	8.8	13.2
68	10.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.254 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

Tgt Ion:	82	Resp:	304
Ion	Ratio	Lower	Upper
82	100		
128	56.0	42.5	63.7
54	59.7	43.2	64.8

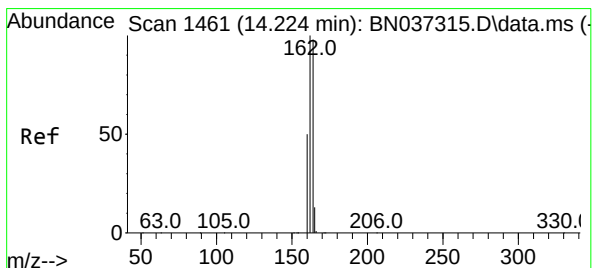
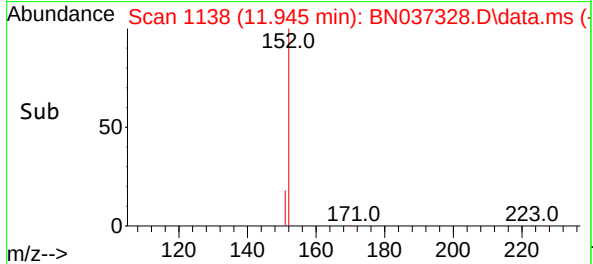
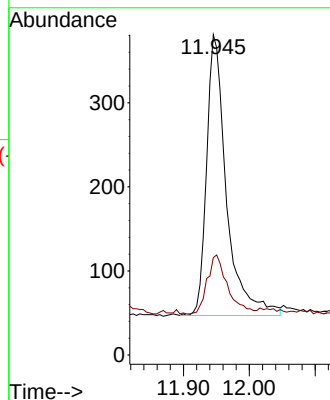
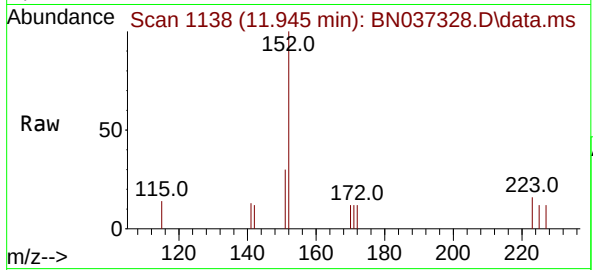




#11
2-Methylnaphthalene-d10
Concen: 0.299 ng
RT: 11.945 min Scan# 1139
Delta R.T. -0.005 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

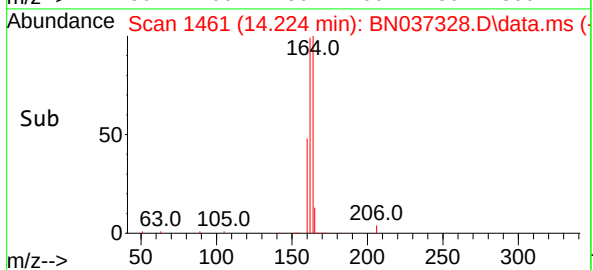
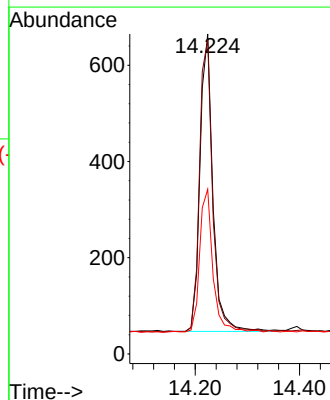
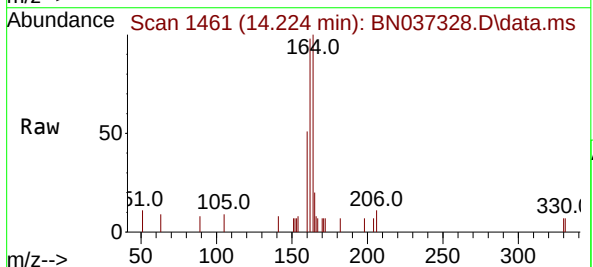
Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611

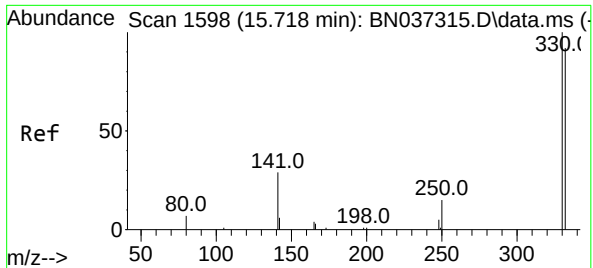
Tgt Ion:152 Resp: 698
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

Tgt Ion:164 Resp: 1064
Ion Ratio Lower Upper
164 100
162 98.2 81.5 122.3
160 51.4 43.0 64.4





#14

2,4,6-Tribromophenol

Concen: 0.299 ng

RT: 15.718 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN037328.D

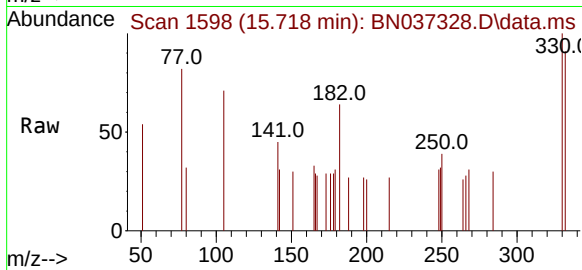
Acq: 19 Jun 2025 00:28

Instrument :

BNA_N

ClientSampleId :

TT192D1-20250611



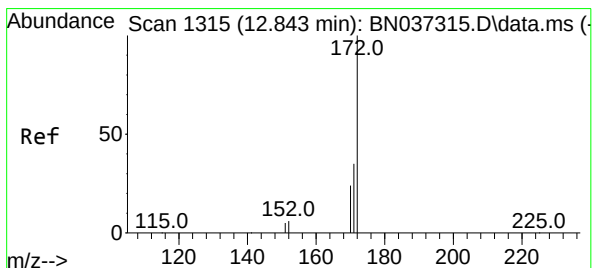
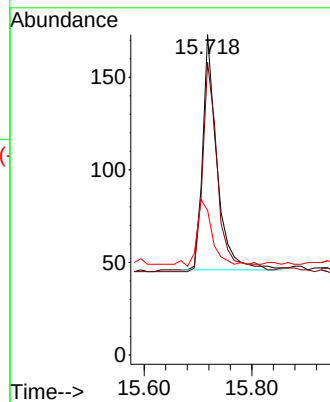
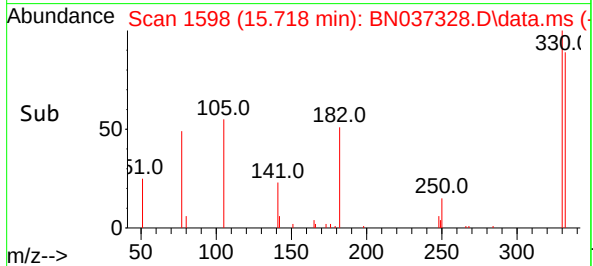
Tgt Ion:330 Resp: 235

Ion Ratio Lower Upper

330 100

332 94.9 78.4 117.6

141 29.8 24.4 36.6



#15

2-Fluorobiphenyl

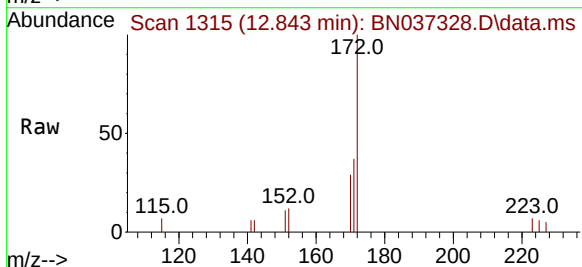
Concen: 0.309 ng

RT: 12.843 min Scan# 1315

Delta R.T. 0.000 min

Lab File: BN037328.D

Acq: 19 Jun 2025 00:28



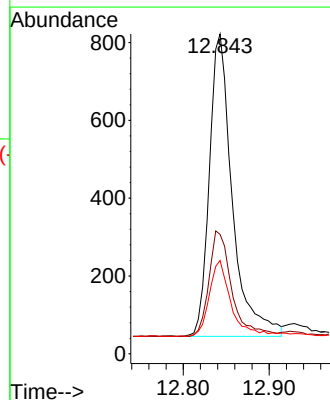
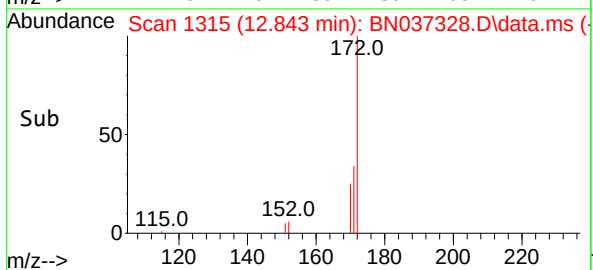
Tgt Ion:172 Resp: 1442

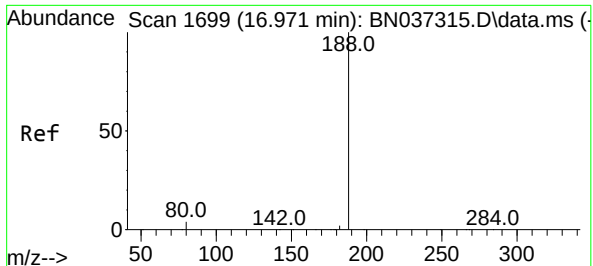
Ion Ratio Lower Upper

172 100

171 37.3 30.8 46.2

170 29.2 21.9 32.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037328.D

Acq: 19 Jun 2025 00:28

Instrument :

BNA_N

ClientSampleId :

TT192D1-20250611

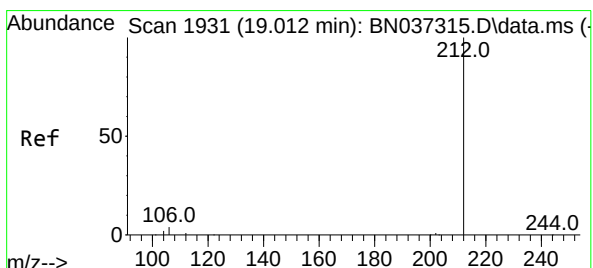
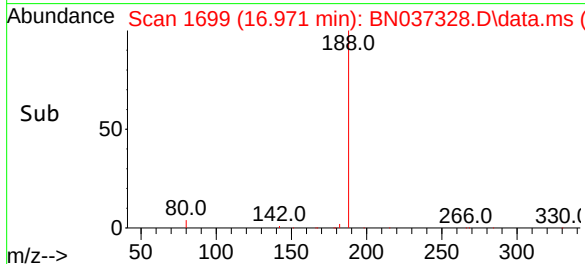
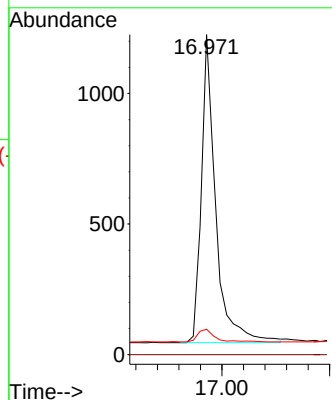
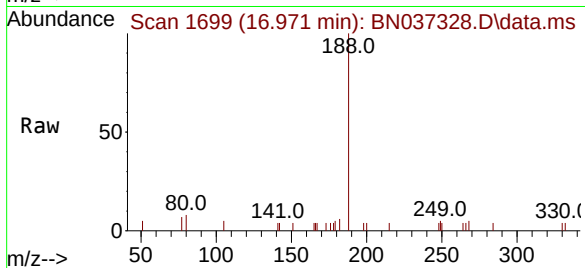
Tgt Ion:188 Resp: 2175

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.9 6.2 9.2



#27

Fluoranthene-d10

Concen: 0.385 ng

RT: 19.008 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037328.D

Acq: 19 Jun 2025 00:28

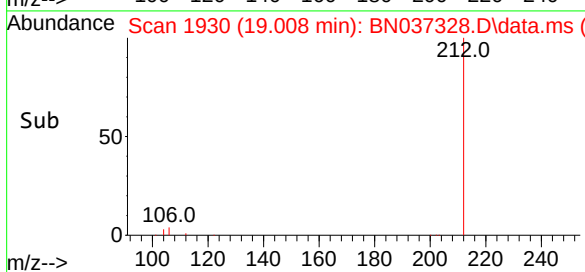
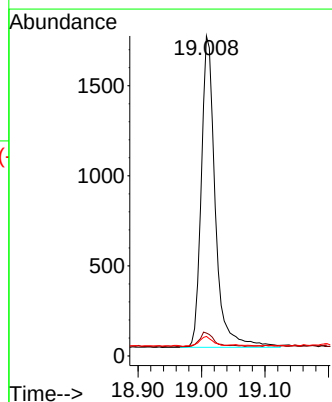
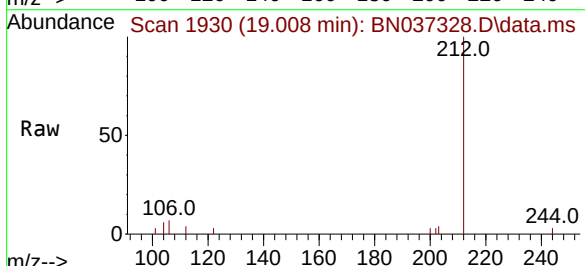
Tgt Ion:212 Resp: 2654

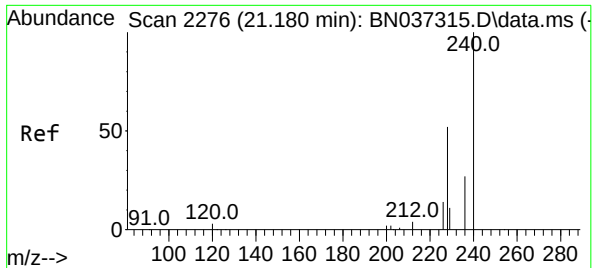
Ion Ratio Lower Upper

212 100

106 4.9 3.0 4.4#

104 3.1 2.0 3.0#

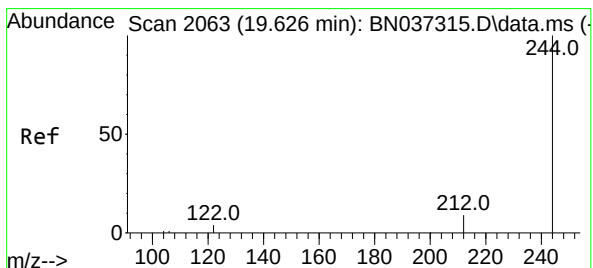
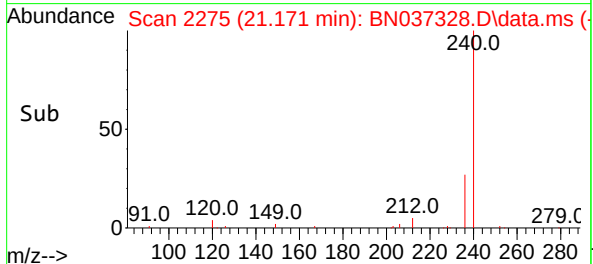
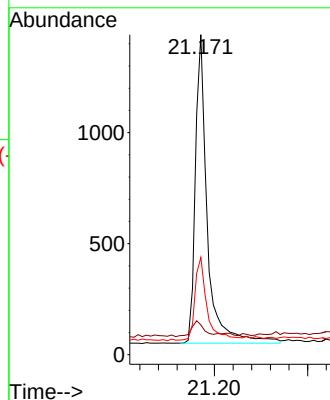
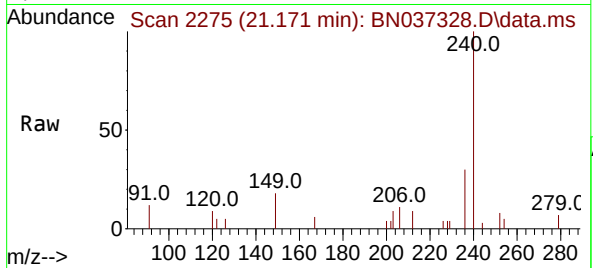




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

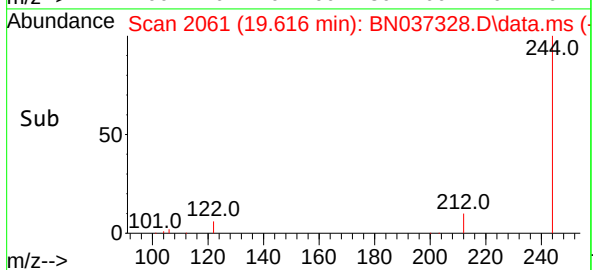
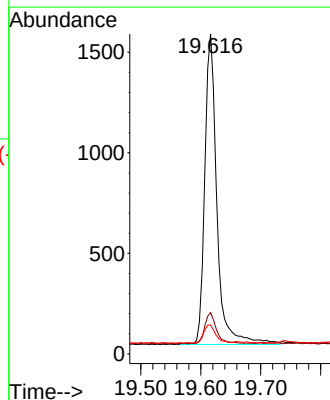
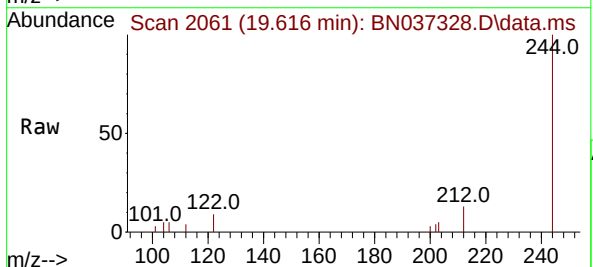
Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611

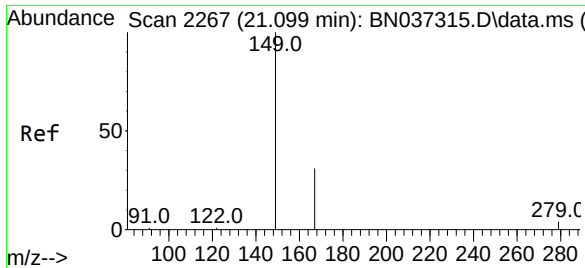
Tgt Ion:240 Resp: 2468
Ion Ratio Lower Upper
240 100
120 9.3 7.5 11.3
236 30.4 24.9 37.3



#31
Terphenyl-d14
Concen: 0.384 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

Tgt Ion:244 Resp: 2172
Ion Ratio Lower Upper
244 100
212 12.9 11.1 16.7
122 9.1 7.2 10.8

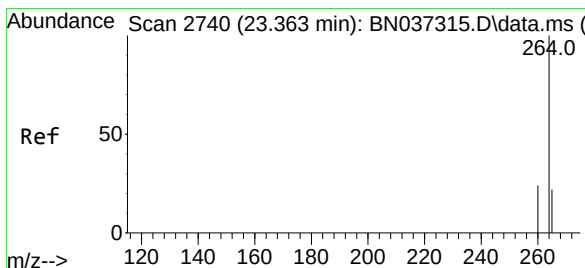
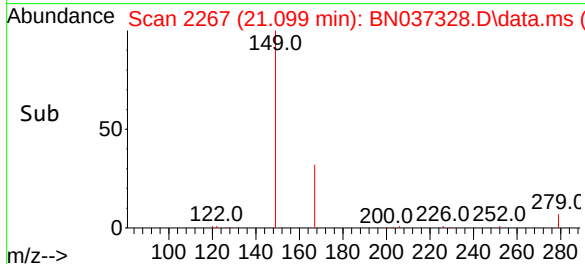
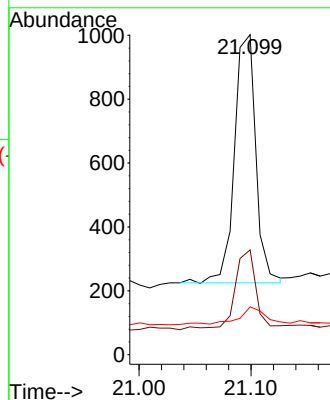
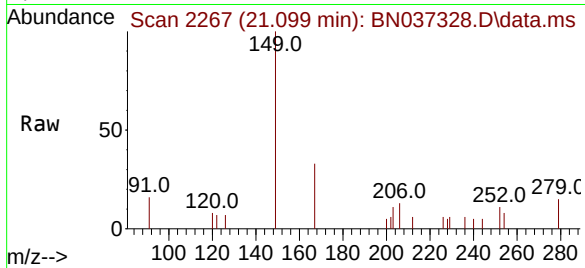




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.317 ng
RT: 21.099 min Scan# 2109
Delta R.T. 0.000 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

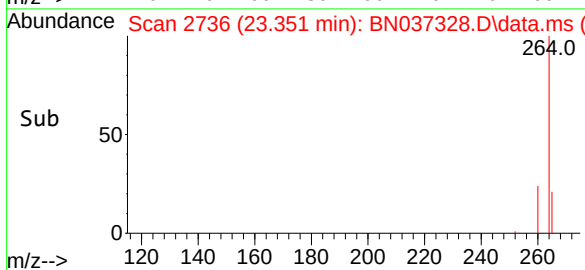
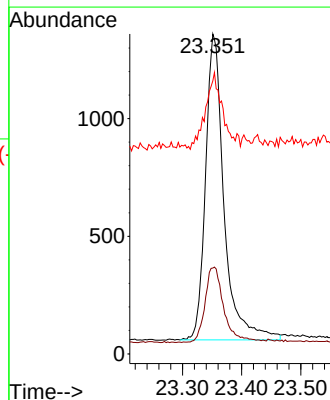
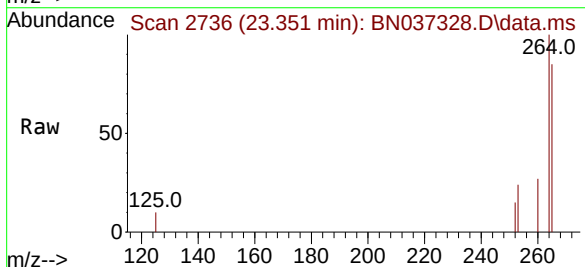
Instrument :
BNA_N
ClientSampleId :
TT192D1-20250611

Tgt Ion:149 Resp: 1034
Ion Ratio Lower Upper
149 100
167 32.4 24.6 37.0
279 8.9 6.5 9.7



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2736
Delta R.T. -0.012 min
Lab File: BN037328.D
Acq: 19 Jun 2025 00:28

Tgt Ion:264 Resp: 2823
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 85.4 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25
Client Sample ID:	TT188S1-20250612		SDG No.:	Q2329
Lab Sample ID:	Q2329-02		Matrix:	Water
Analytical Method:	SW8270ESIM		% Solid:	0
Sample Wt/Vol:	990	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
BN037329.D	1	06/17/25 08:55	06/19/25 01:04	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.12	J	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		85%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	805		7.575			
1146-65-2	Naphthalene-d8	1810		10.351			
15067-26-2	Acenaphthene-d10	1320		14.224			
1517-22-2	Phenanthrene-d10	2640		16.971			
1719-03-5	Chrysene-d12	2640		21.171			
1520-96-3	Perylene-d12	2750		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\BN061925\
Data File : BN037329.D
Acq On : 19 Jun 2025 01:04
Operator : RC/JU
Sample : Q2329-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

Quant Time: Jun 19 04:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	805	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1809	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1315	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2637	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2639	0.400	ng	0.00
35) Perylene-d12	23.357	264	2745	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	211	0.144	ng	0.00
5) Phenol-d6	6.759	99	125	0.087	ng	0.00
8) Nitrobenzene-d5	8.728	82	436	0.289	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1003	0.341	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	353	0.364	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1933	0.335	ng	0.00
27) Fluoranthene-d10	19.008	212	3456	0.413	ng	0.00
31) Terphenyl-d14	19.616	244	2888	0.477	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	86m	0.120	ng	Qvalue
34) Bis(2-ethylhexyl)phtha...	21.099	149	311	0.089	ng	# 95

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

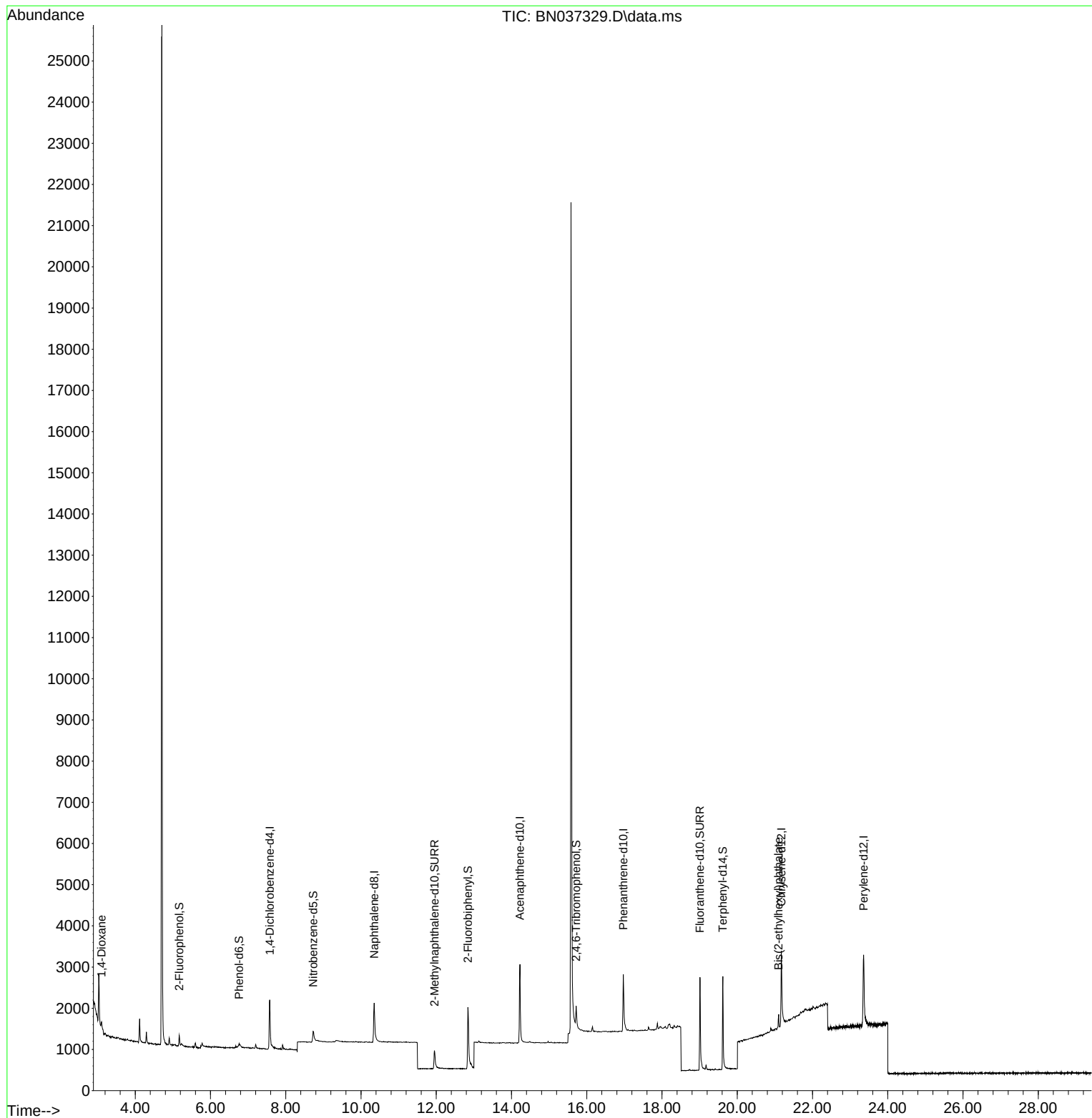
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037329.D
Acq On : 19 Jun 2025 01:04
Operator : RC/JU
Sample : Q2329-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

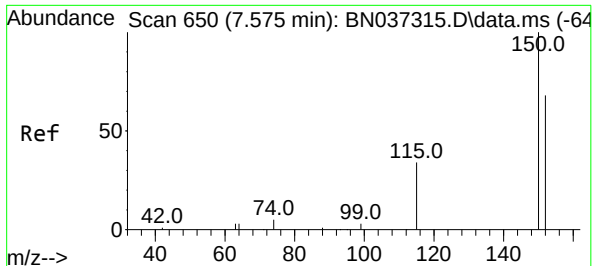
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

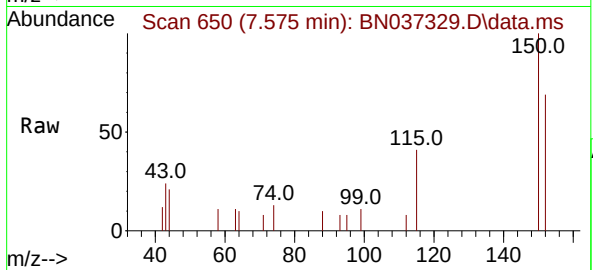
Quant Time: Jun 19 04:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

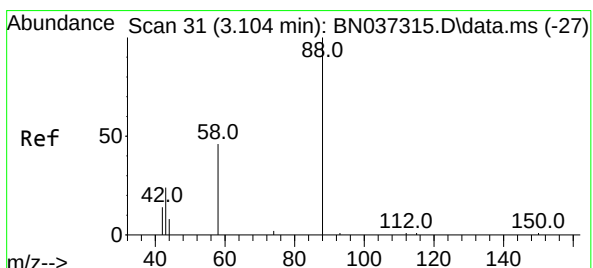
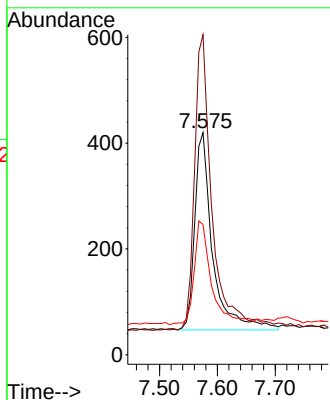
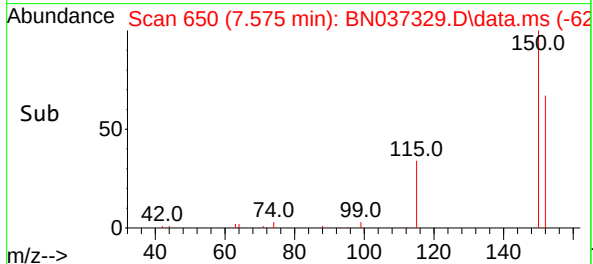
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612



Tgt Ion: 152 Resp: 809
Ion Ratio Lower Upper
152 100
150 144.0 112.7 169.1
115 58.6 45.9 68.9

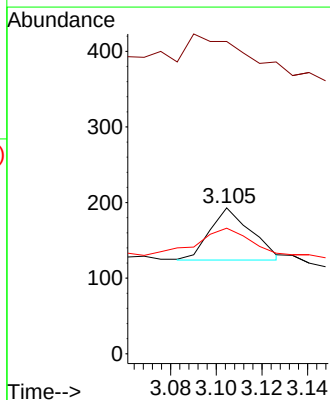
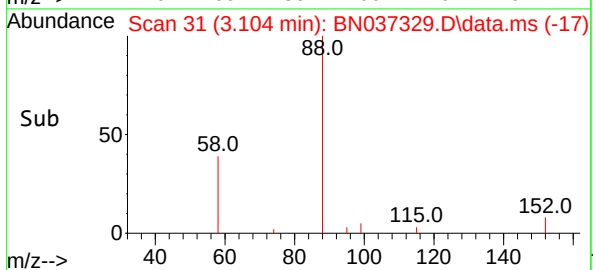
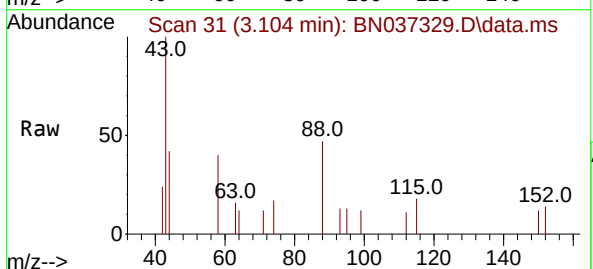
Manual Integrations
APPROVED

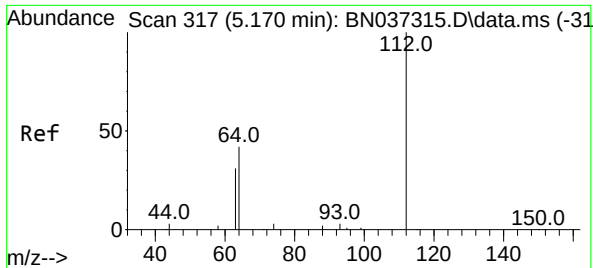
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#2
1,4-Dioxane
Concen: 0.120 ng m
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

Tgt Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 281.4 21.0 31.6#
58 146.5 38.0 57.0#





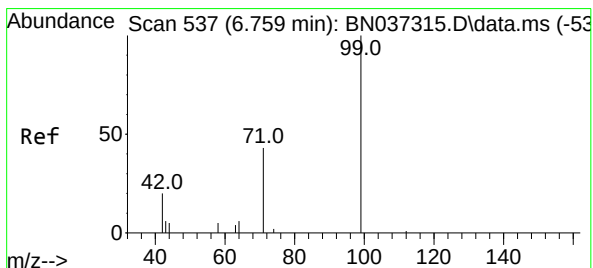
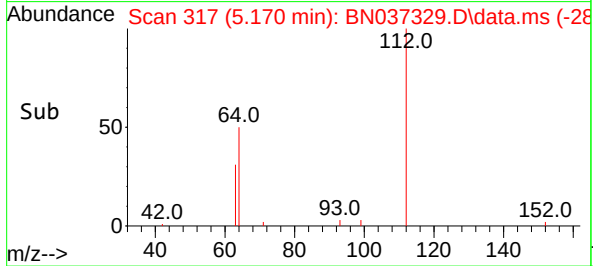
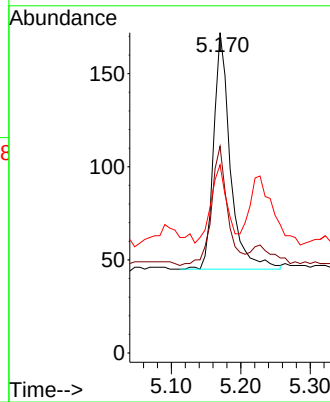
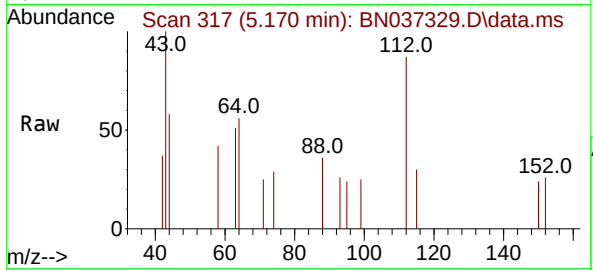
#4
2-Fluorophenol
Concen: 0.144 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

Tgt Ion: 112 Resp: 211
Ion Ratio Lower Upper
112 100
64 49.3 38.7 58.1
63 31.8 26.4 39.6

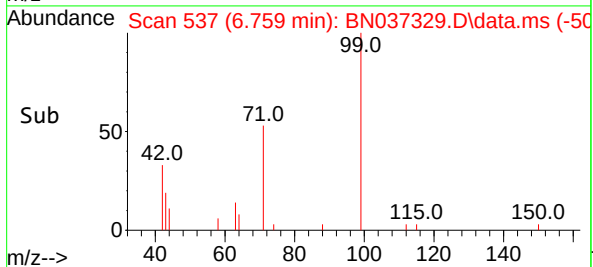
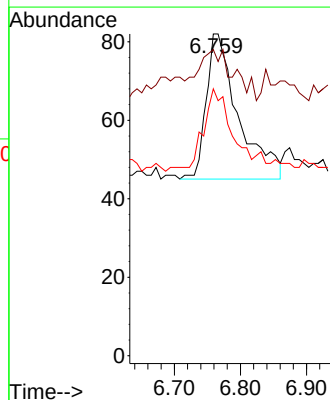
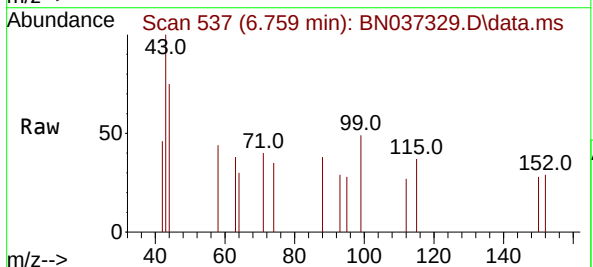
Manual Integrations
APPROVED

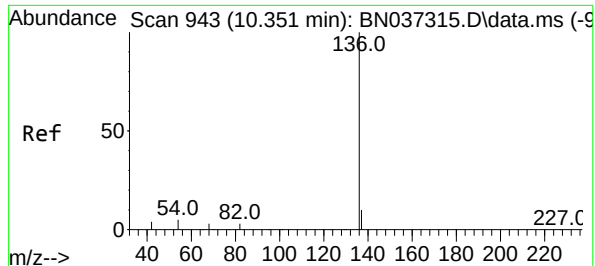
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#5
Phenol-d6
Concen: 0.087 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

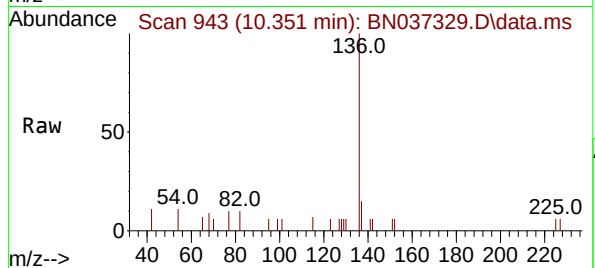
Tgt Ion: 99 Resp: 125
Ion Ratio Lower Upper
99 100
42 35.2 19.8 29.8#
71 49.6 42.6 64.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

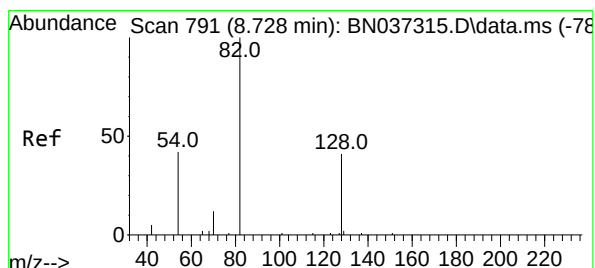
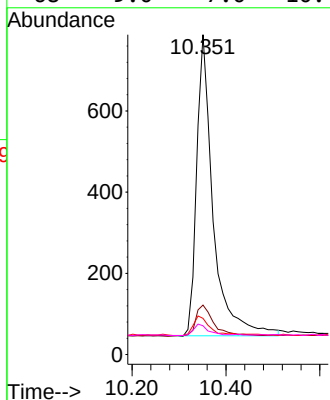
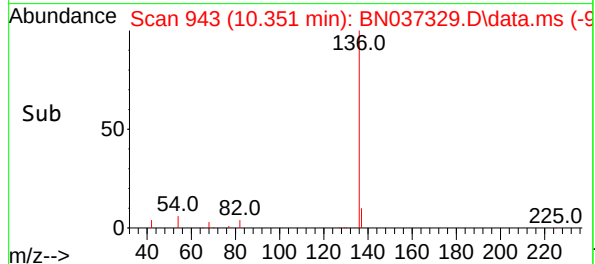
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612



Tgt Ion: 136 Resp: 1809
Ion Ratio Lower Upper
136 100
137 15.5 12.2 18.2
54 11.3 8.8 13.2
68 9.0 7.0 10.4

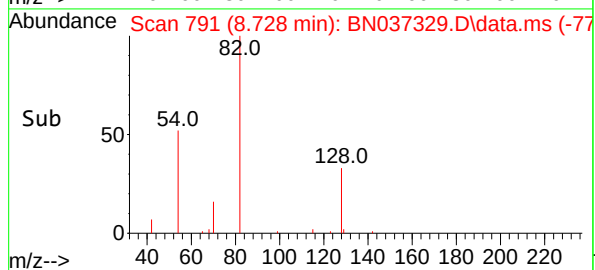
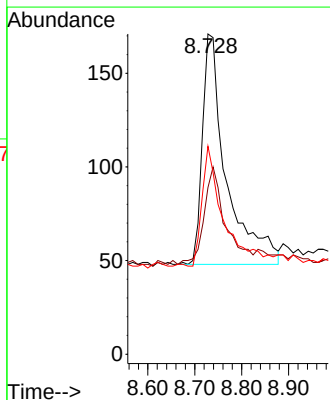
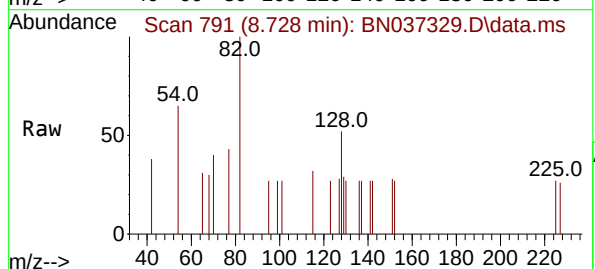
Manual Integrations
APPROVED

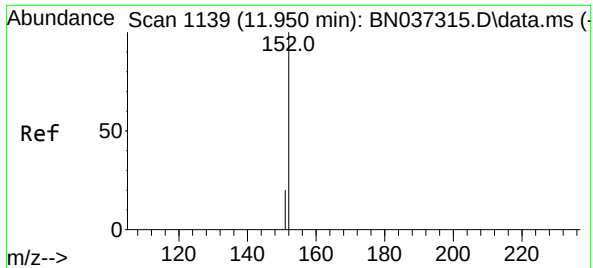
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#8
Nitrobenzene-d5
Concen: 0.289 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

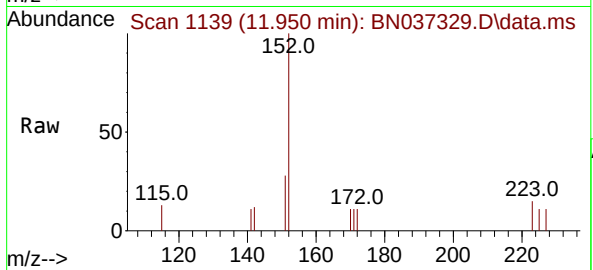
Tgt Ion: 82 Resp: 436
Ion Ratio Lower Upper
82 100
128 52.0 42.5 63.7
54 64.9 43.2 64.8#





#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.950 min Scan# 1139
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

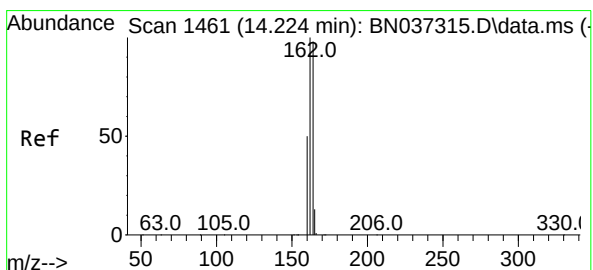
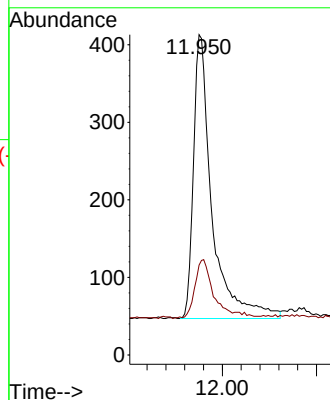
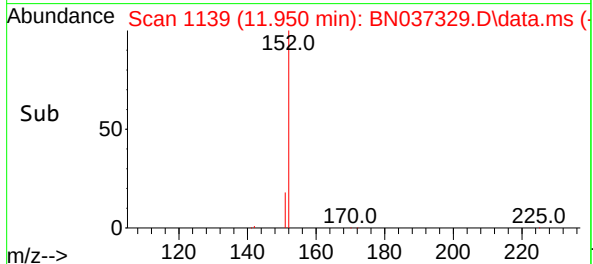
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612



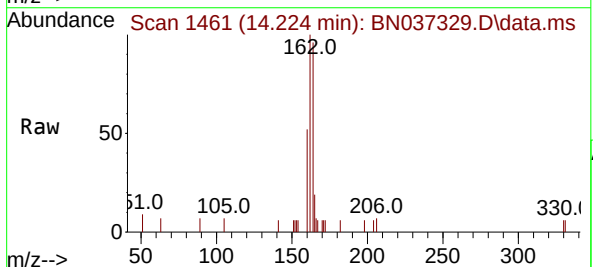
Tgt Ion:152 Resp: 100
Ion Ratio Lower Upper
152 100
151 20.2 17.4 26.0

Manual Integrations
APPROVED

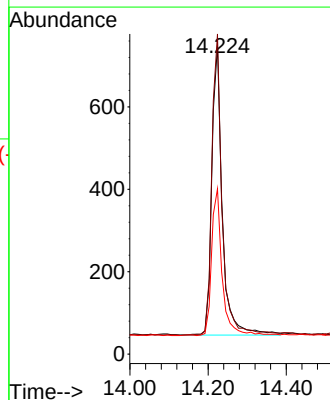
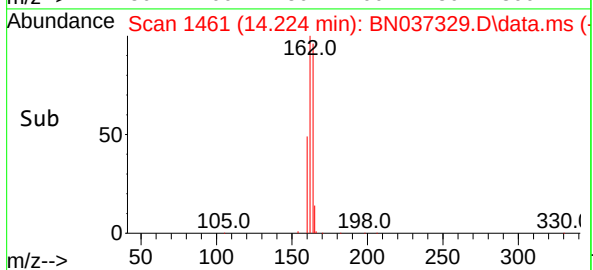
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

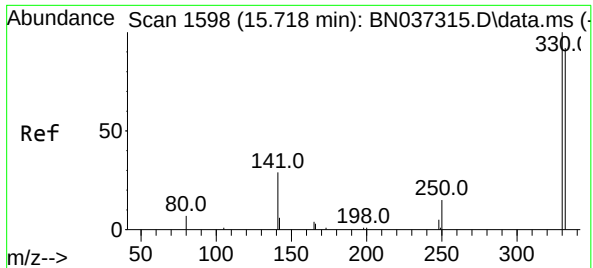


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04



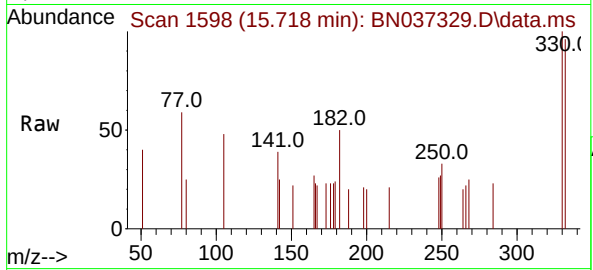
Tgt Ion:164 Resp: 1315
Ion Ratio Lower Upper
164 100
162 103.7 81.5 122.3
160 53.5 43.0 64.4





#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

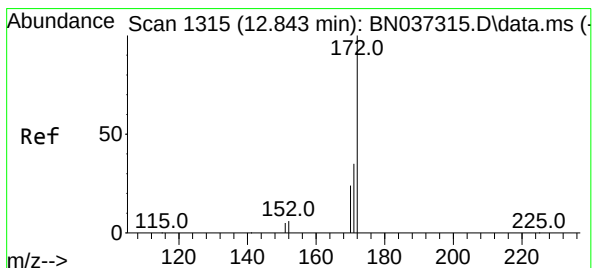
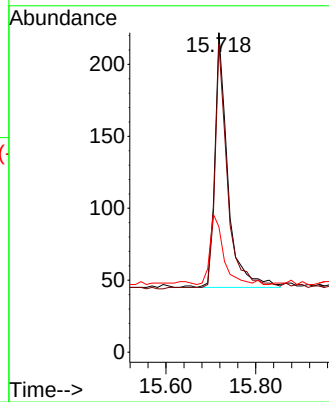
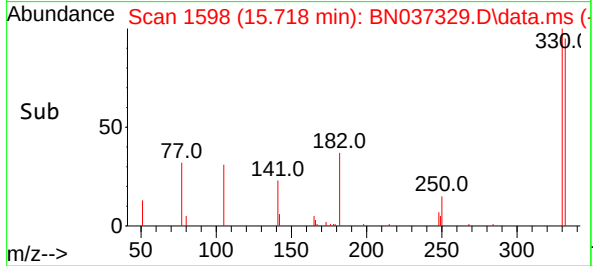
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612



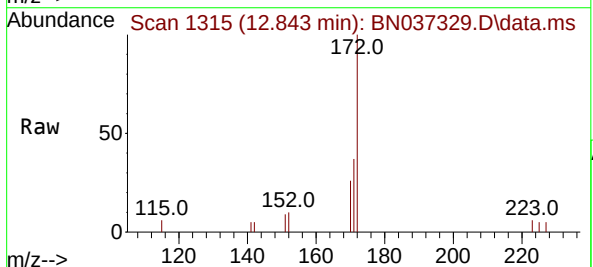
Tgt Ion: 330 Resp: 35
Ion Ratio Lower Upper
330 100
332 91.5 78.4 117.6
141 29.2 24.4 36.6

Manual Integrations
APPROVED

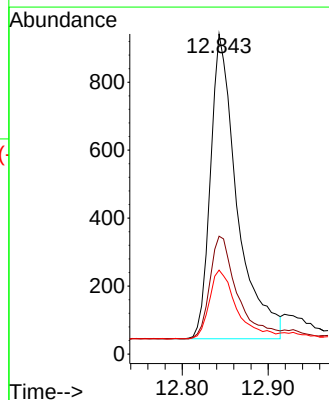
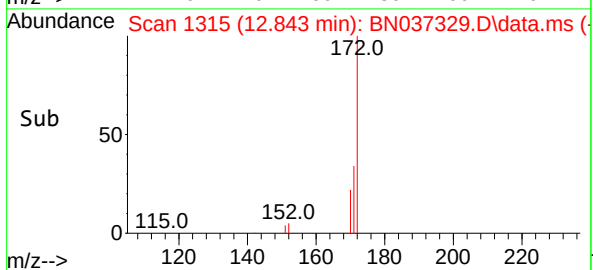
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

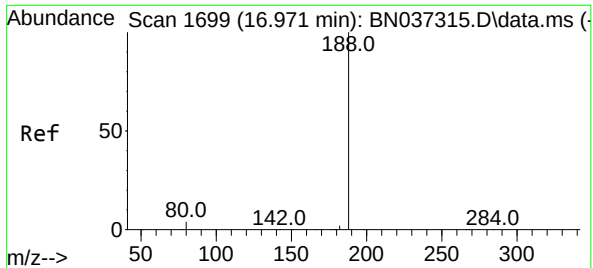


#15
2-Fluorobiphenyl
Concen: 0.335 ng
RT: 12.843 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04



Tgt Ion: 172 Resp: 1933
Ion Ratio Lower Upper
172 100
171 36.8 30.8 46.2
170 26.2 21.9 32.9





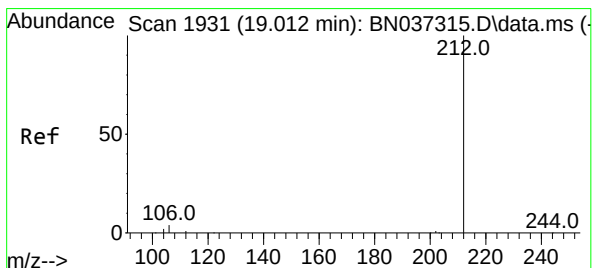
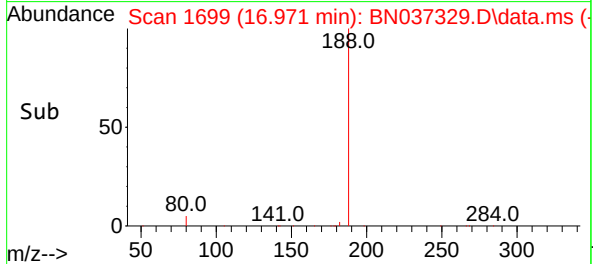
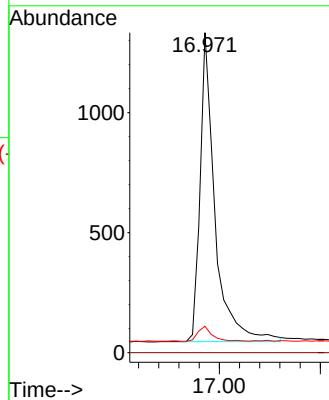
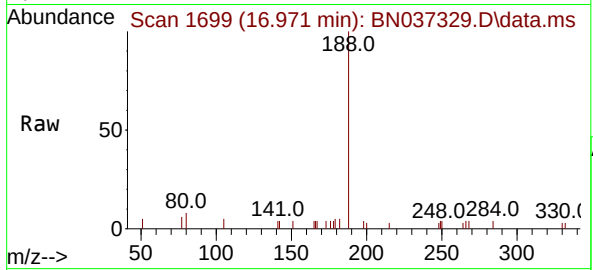
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

Tgt Ion:188 Resp: 263
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 6.2 9.2

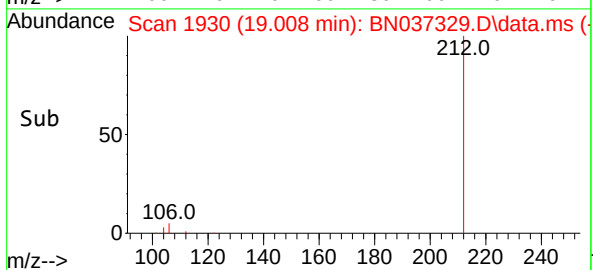
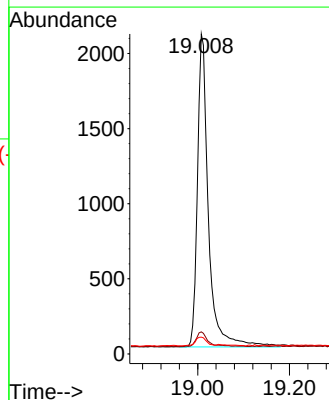
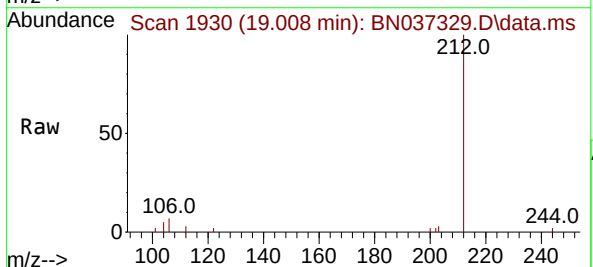
Manual Integrations
APPROVED

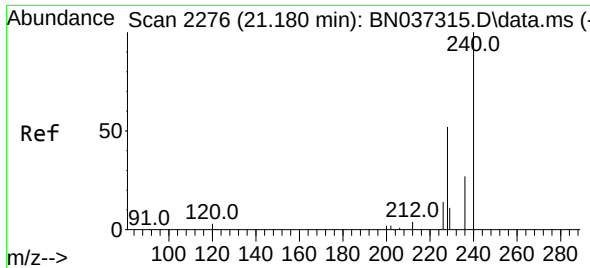
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#27
Fluoranthene-d10
Concen: 0.413 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

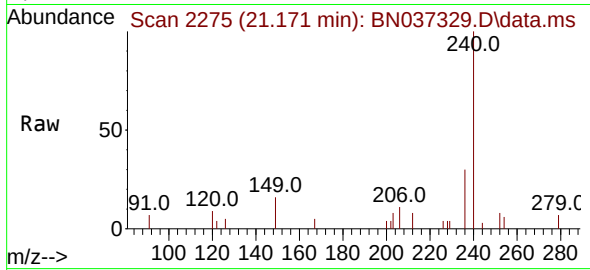
Tgt Ion:212 Resp: 3456
Ion Ratio Lower Upper
212 100
106 5.0 3.0 4.4#
104 2.8 2.0 3.0





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

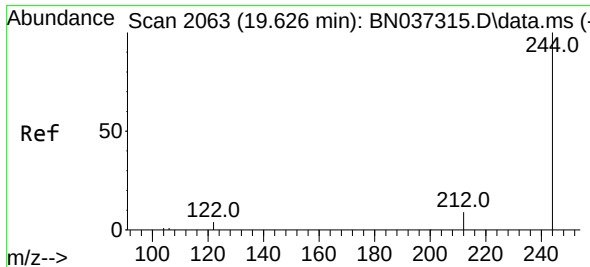
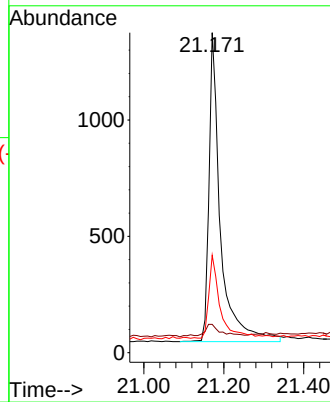
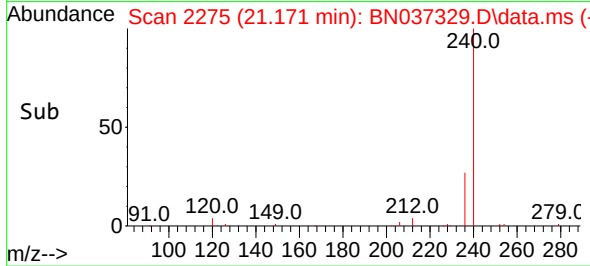
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612



Tgt Ion:240 Resp: 2639
Ion Ratio Lower Upper
240 100
120 8.9 7.5 11.3
236 30.5 24.9 37.3

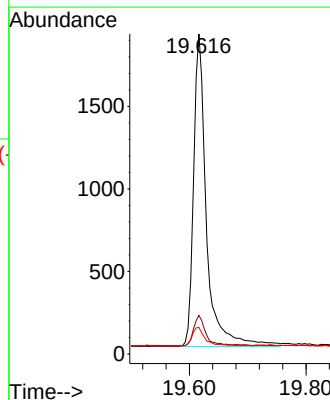
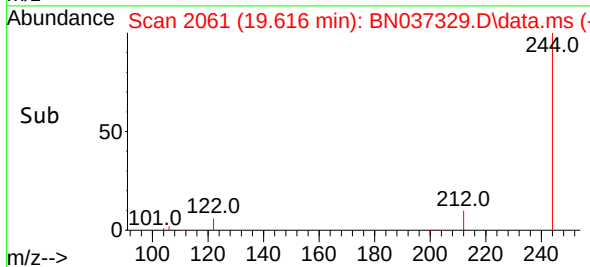
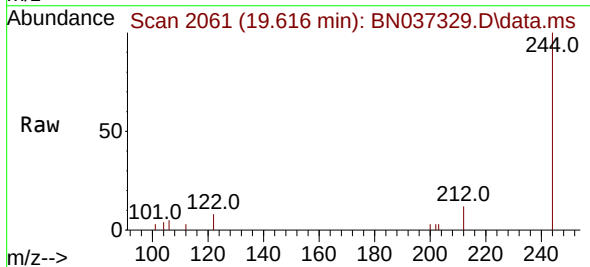
Manual Integrations
APPROVED

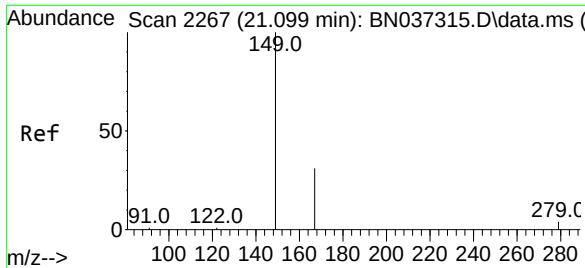
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#31
Terphenyl-d14
Concen: 0.477 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

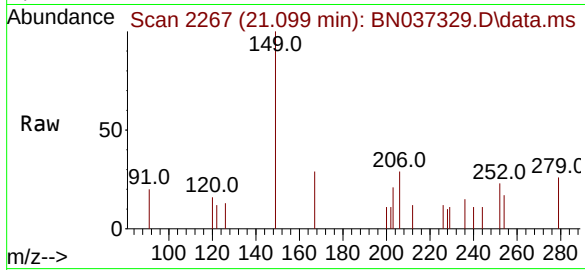
Tgt Ion:244 Resp: 2888
Ion Ratio Lower Upper
244 100
212 12.1 11.1 16.7
122 8.3 7.2 10.8





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.089 ng
RT: 21.099 min Scan# 2109
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

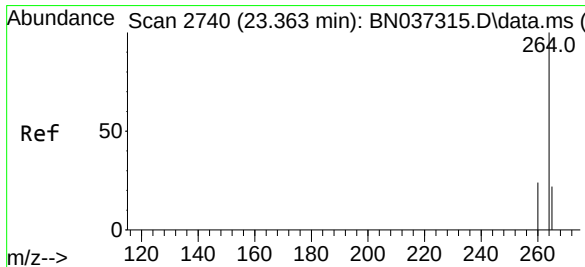
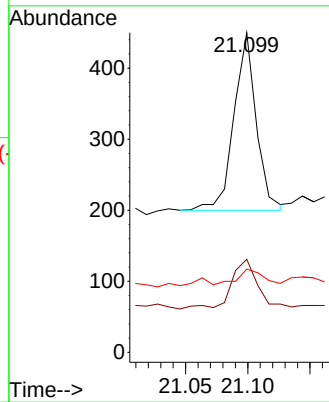
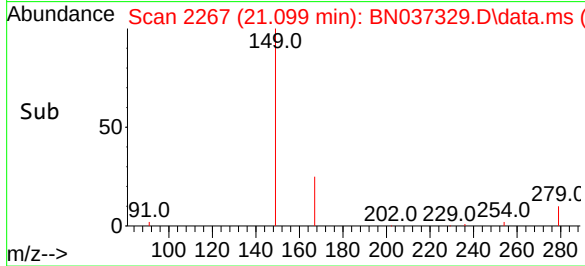
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612



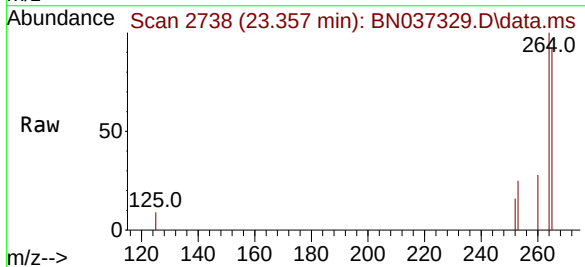
Tgt Ion:149 Resp: 311
Ion Ratio Lower Upper
149 100
167 33.4 24.6 37.0
279 10.0 6.5 9.7

Manual Integrations
APPROVED

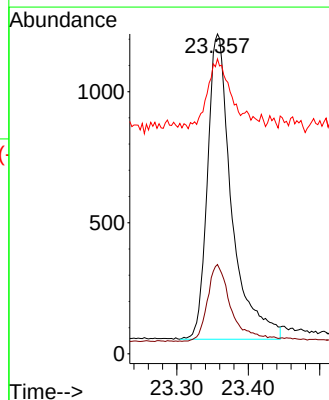
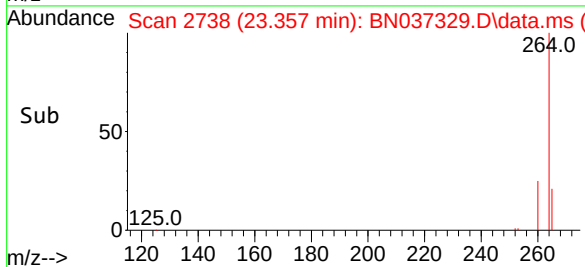
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. -0.006 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04



Tgt Ion:264 Resp: 2745
Ion Ratio Lower Upper
264 100
260 28.0 21.4 32.2
265 92.2 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/12/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT119S1-20250612	SDG No.:	Q2329
Lab Sample ID:	Q2329-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037330.D	1	06/17/25 08:55	06/19/25 01:41	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.46		30 - 150		114%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	676	7.575				
1146-65-2	Naphthalene-d8	1470	10.351				
15067-26-2	Acenaphthene-d10	1030	14.224				
1517-22-2	Phenanthrene-d10	2190	16.971				
1719-03-5	Chrysene-d12	2320	21.171				
1520-96-3	Perylene-d12	2520	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\BN061925\
Data File : BN037330.D
Acq On : 19 Jun 2025 01:41
Operator : RC/JU
Sample : Q2329-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612

Quant Time: Jun 19 04:05:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

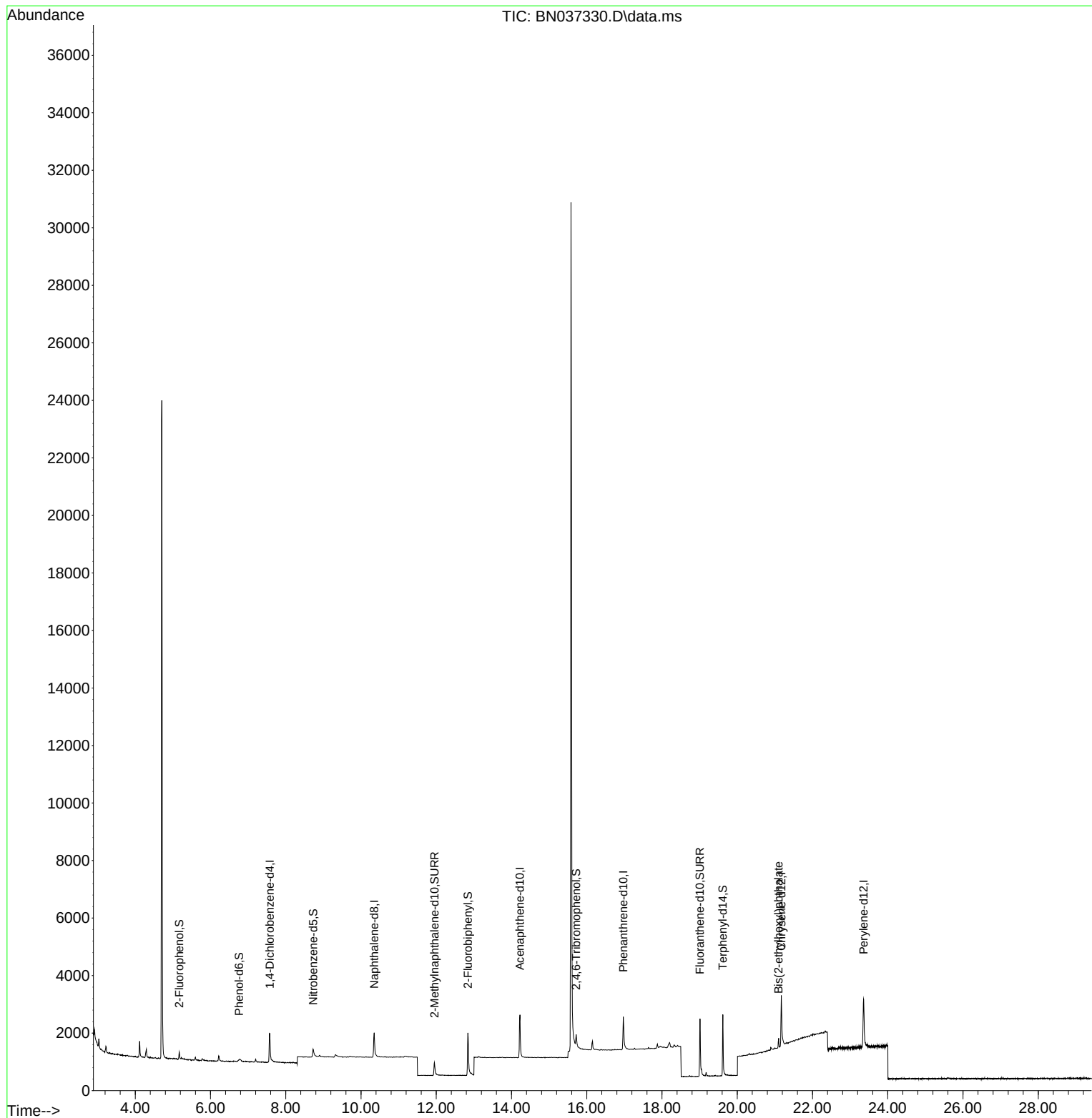
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	676	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1473	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1030	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2192	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2323	0.400	ng	0.00
35) Perylene-d12	23.357	264	2519	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	201	0.164	ng	0.00
5) Phenol-d6	6.759	99	103	0.085	ng	0.00
8) Nitrobenzene-d5	8.728	82	413	0.337	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	893	0.373	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	295	0.388	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1768	0.392	ng	0.00
27) Fluoranthene-d10	19.008	212	3161	0.455	ng	0.00
31) Terphenyl-d14	19.616	244	2590	0.486	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	308	0.100	ng	Qvalue # 86

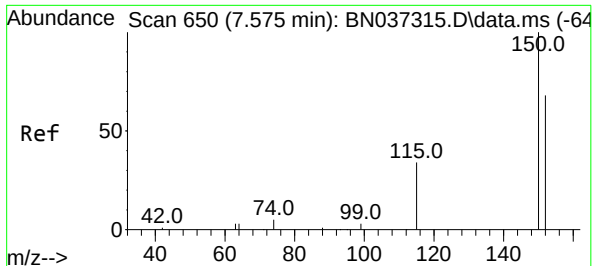
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037330.D
Acq On : 19 Jun 2025 01:41
Operator : RC/JU
Sample : Q2329-03
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612

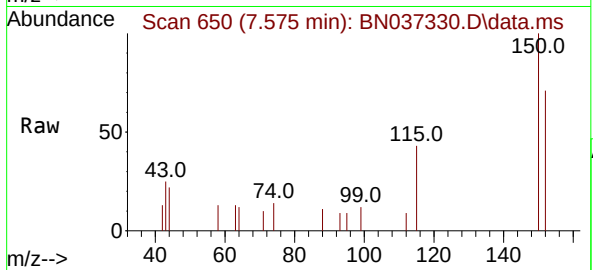
Quant Time: Jun 19 04:05:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration



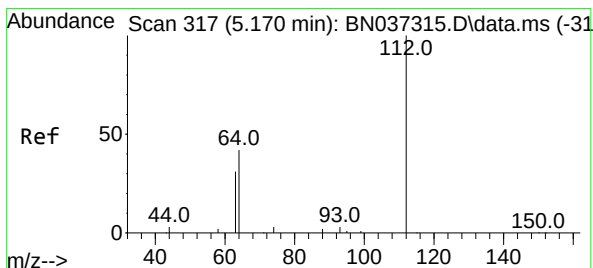
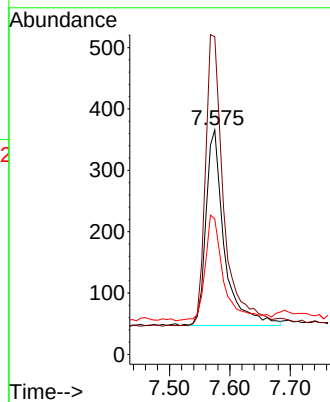
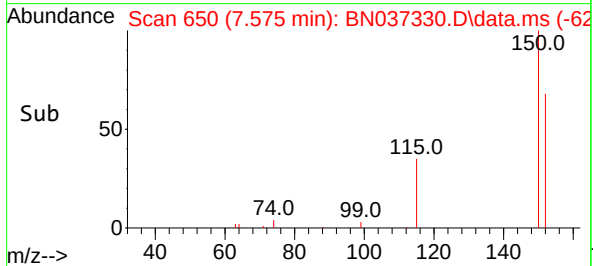


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

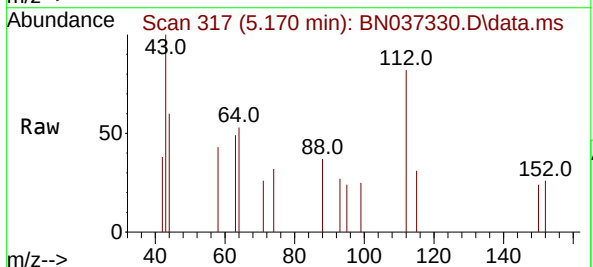
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612



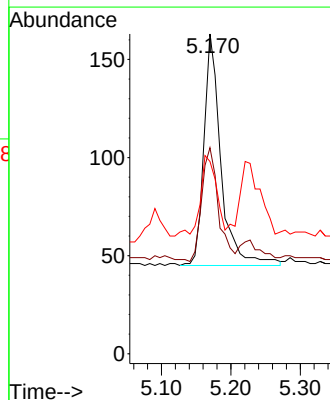
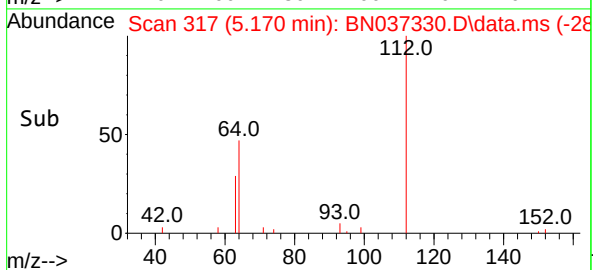
Tgt Ion:152 Resp: 676
Ion Ratio Lower Upper
152 100
150 141.5 112.7 169.1
115 60.4 45.9 68.9

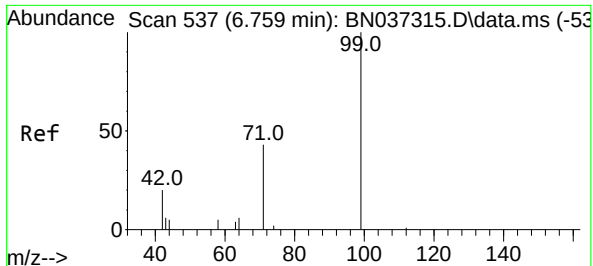


#4
2-Fluorophenol
Concen: 0.164 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41



Tgt Ion:112 Resp: 201
Ion Ratio Lower Upper
112 100
64 46.8 38.7 58.1
63 33.8 26.4 39.6

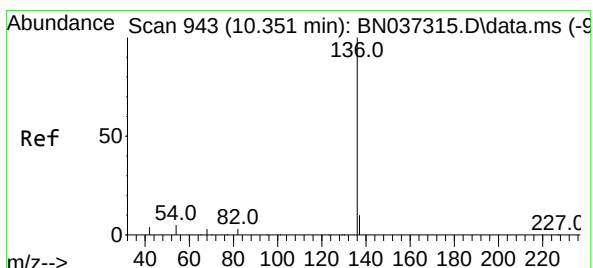
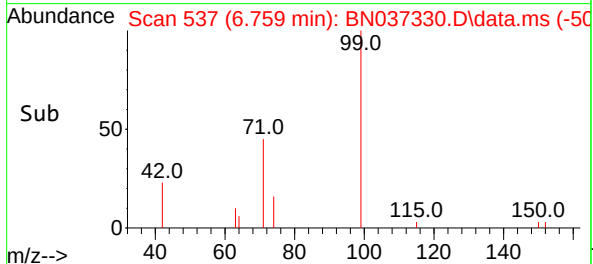
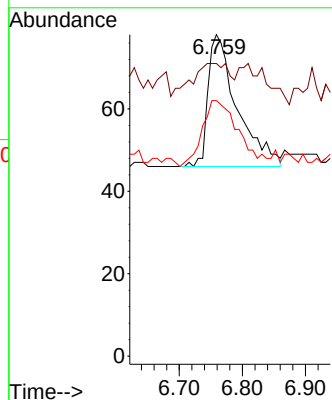
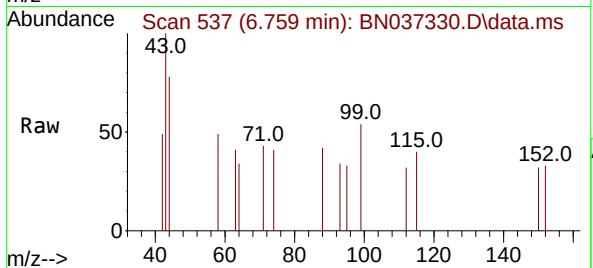




#5
Phenol-d6
Concen: 0.085 ng
RT: 6.759 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

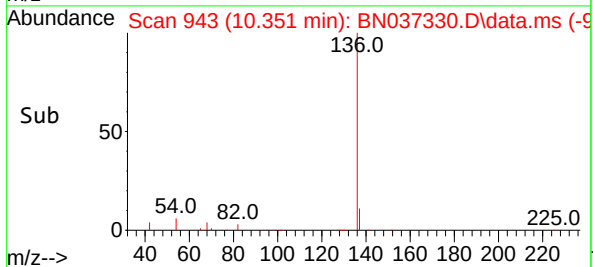
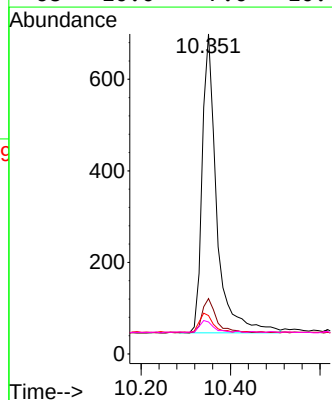
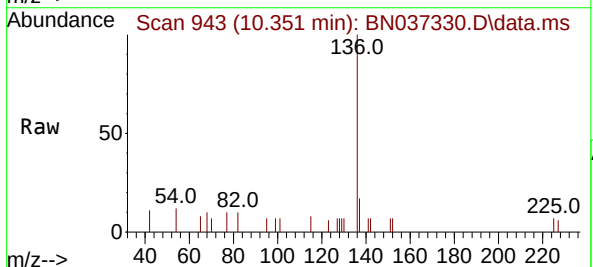
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612

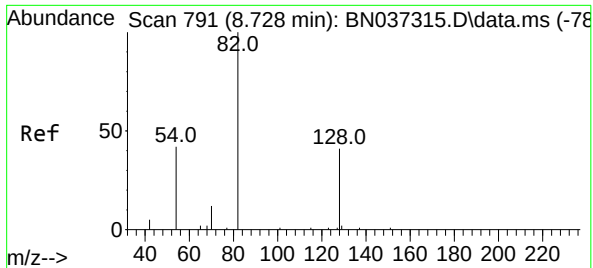
Tgt Ion: 99 Resp: 103
Ion Ratio Lower Upper
99 100
42 27.2 19.8 29.8
71 62.1 42.6 64.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

Tgt Ion: 136 Resp: 1473
Ion Ratio Lower Upper
136 100
137 17.3 12.2 18.2
54 12.0 8.8 13.2
68 10.0 7.0 10.4

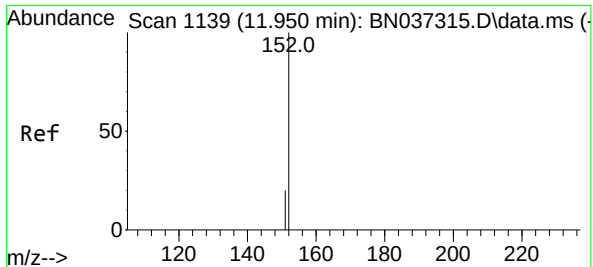
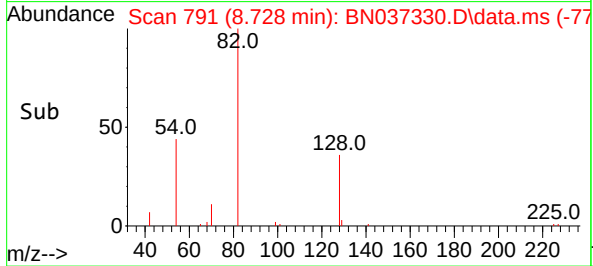
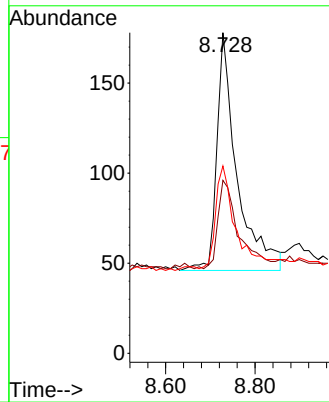
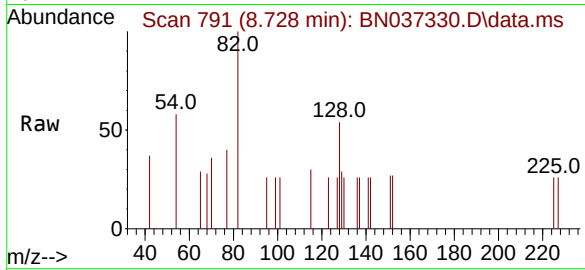




#8
Nitrobenzene-d5
Concen: 0.337 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

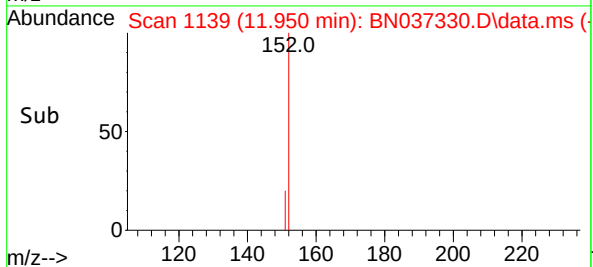
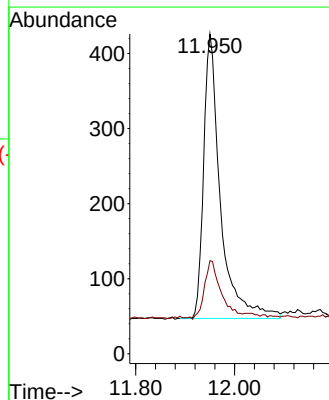
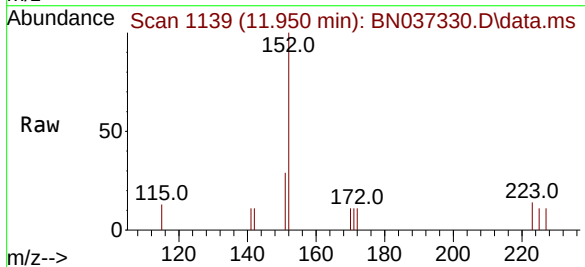
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612

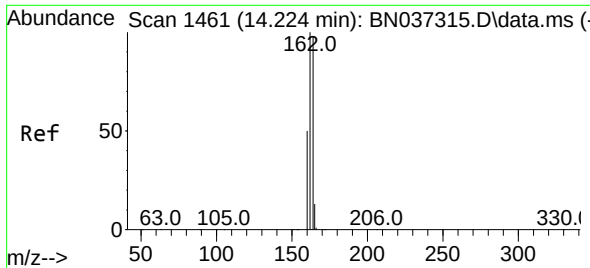
Tgt Ion:	82	Resp:	413
Ion	Ratio	Lower	Upper
82	100		
128	53.9	42.5	63.7
54	58.4	43.2	64.8



#11
2-Methylnaphthalene-d10
Concen: 0.373 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

Tgt Ion:	152	Resp:	893
Ion	Ratio	Lower	Upper
152	100		
151	20.7	17.4	26.0

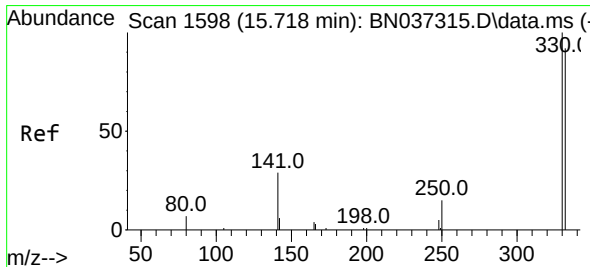
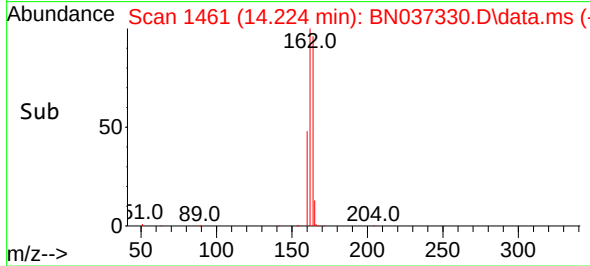
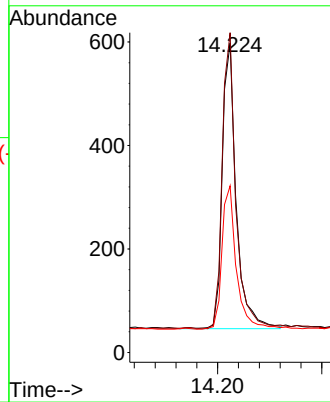
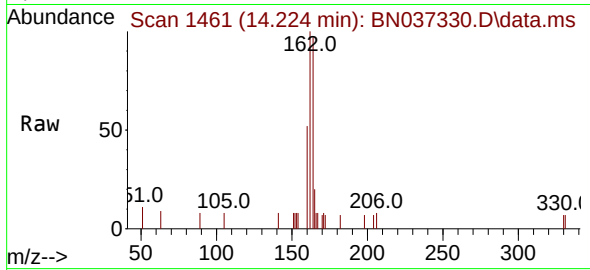




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

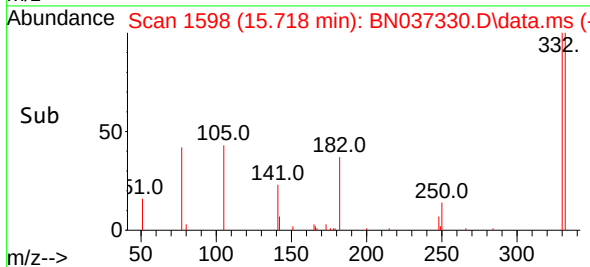
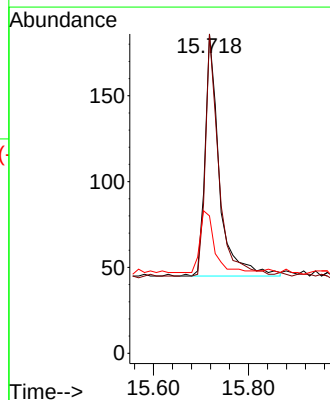
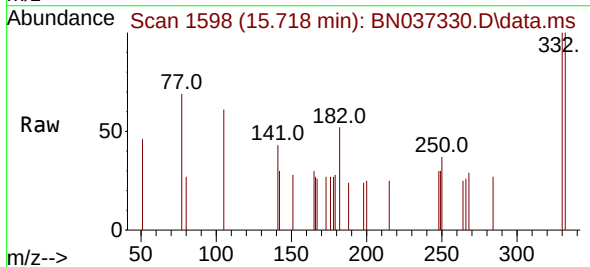
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612

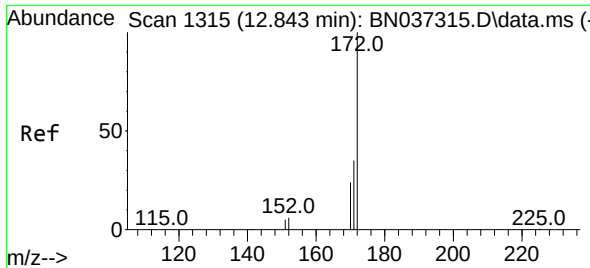
Tgt Ion:164 Resp: 1030
Ion Ratio Lower Upper
164 100
162 103.3 81.5 122.3
160 53.8 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.388 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

Tgt Ion:330 Resp: 295
Ion Ratio Lower Upper
330 100
332 93.9 78.4 117.6
141 27.5 24.4 36.6

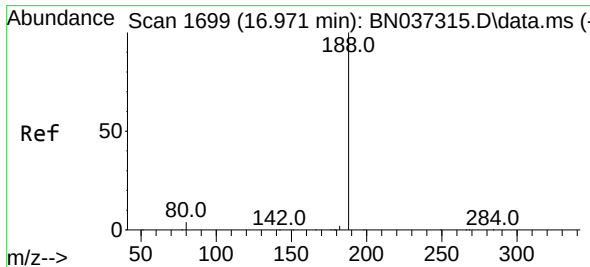
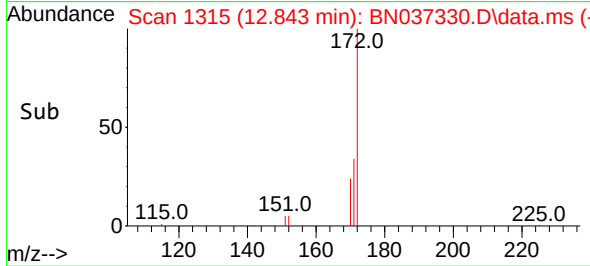
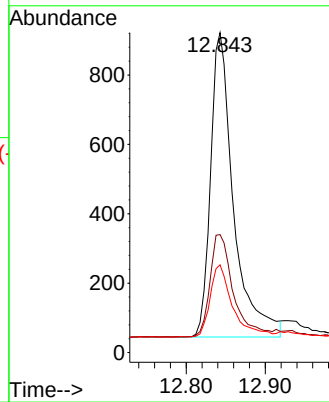
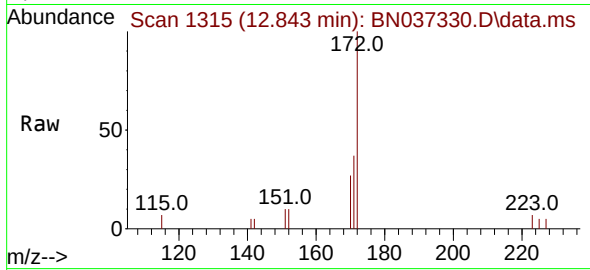




#15
2-Fluorobiphenyl
Concen: 0.392 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

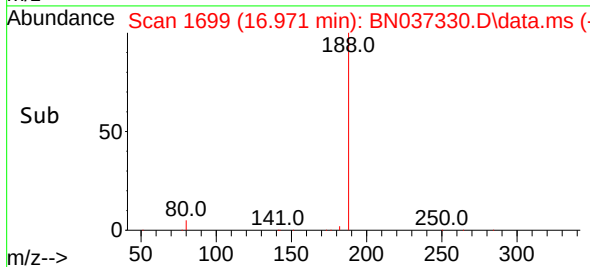
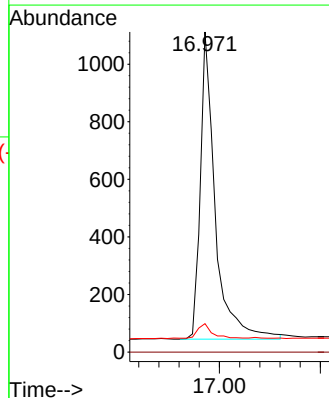
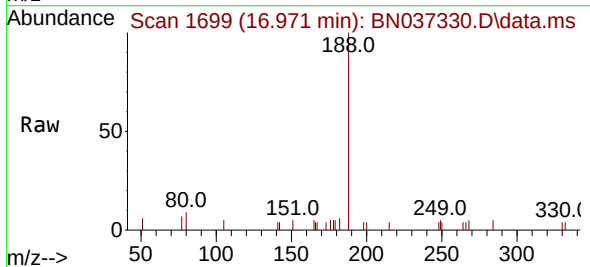
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612

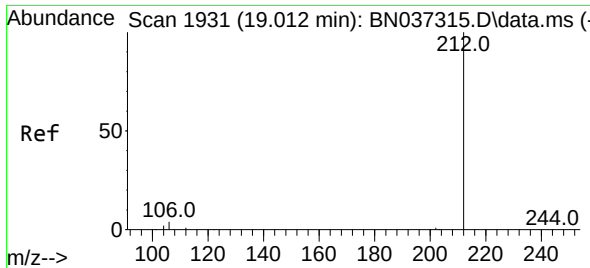
Tgt Ion:	172	Resp:	1768
Ion	Ratio	Lower	Upper
172	100		
171	36.9	30.8	46.2
170	27.4	21.9	32.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

Tgt Ion:	188	Resp:	2192
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.9	6.2	9.2





#27

Fluoranthene-d10

Concen: 0.455 ng

RT: 19.008 min Scan# 19

Delta R.T. -0.005 min

Lab File: BN037330.D

Acq: 19 Jun 2025 01:41

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250612

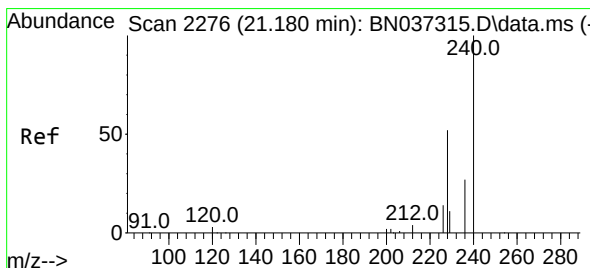
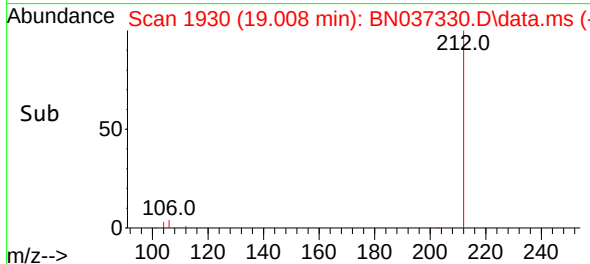
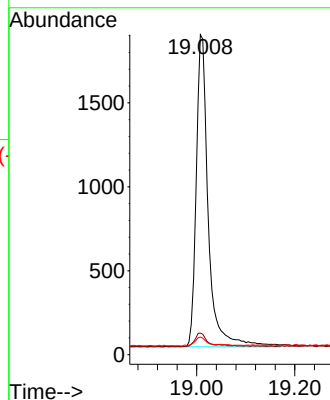
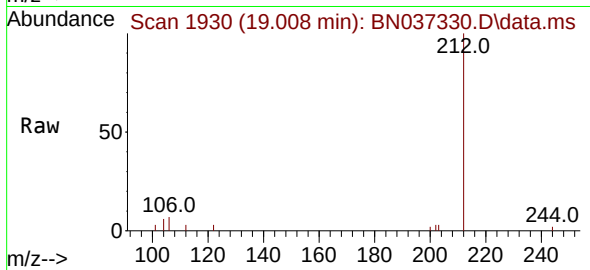
Tgt Ion:212 Resp: 3161

Ion Ratio Lower Upper

212 100

106 4.0 3.0 4.4

104 2.9 2.0 3.0



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 2275

Delta R.T. -0.009 min

Lab File: BN037330.D

Acq: 19 Jun 2025 01:41

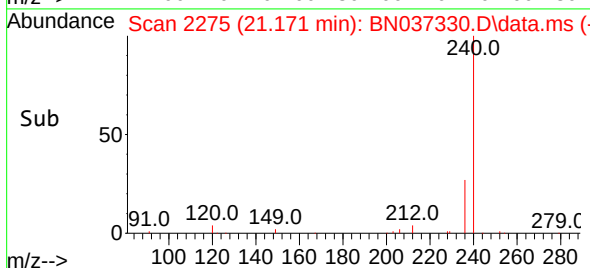
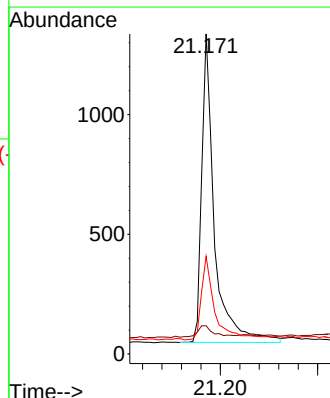
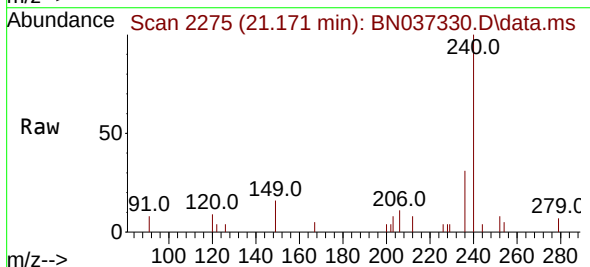
Tgt Ion:240 Resp: 2323

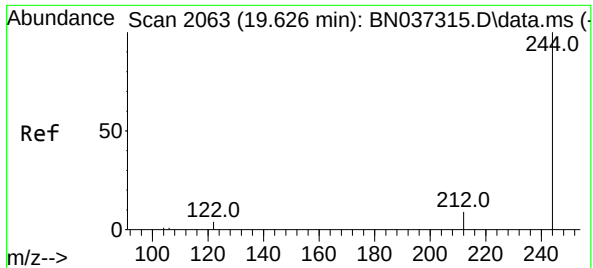
Ion Ratio Lower Upper

240 100

120 8.8 7.5 11.3

236 30.5 24.9 37.3

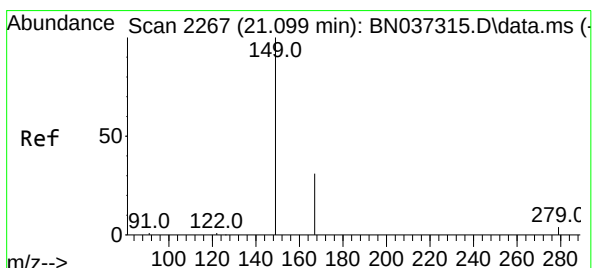
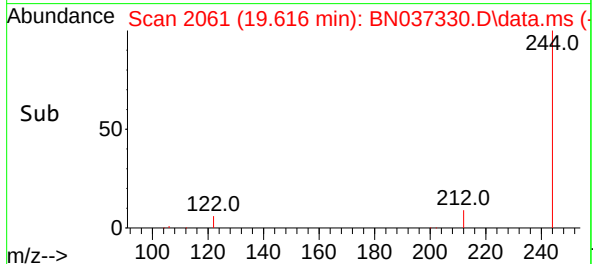
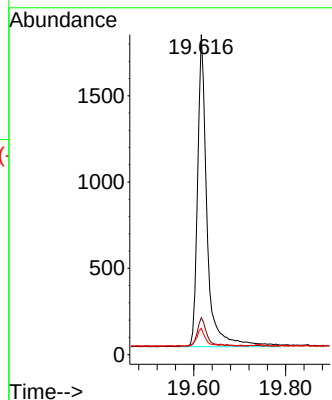
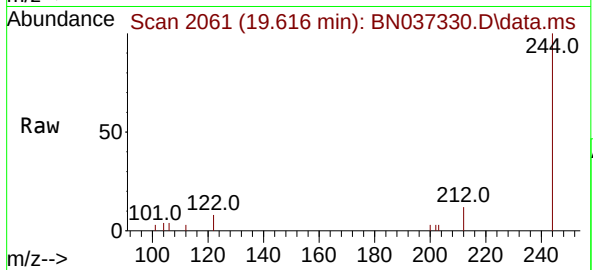




#31
Terphenyl-d14
Concen: 0.486 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

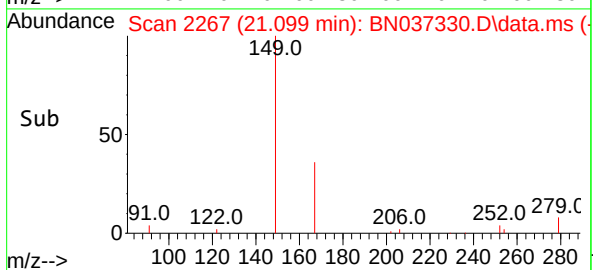
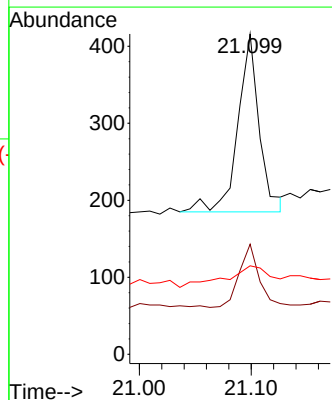
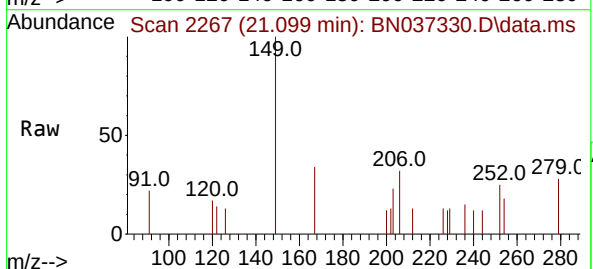
Instrument :
BNA_N
ClientSampleId :
TT119S1-20250612

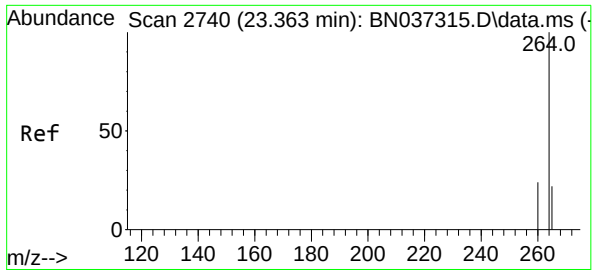
Tgt Ion:244 Resp: 2590
Ion Ratio Lower Upper
244 100
212 11.5 11.1 16.7
122 8.3 7.2 10.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.100 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037330.D
Acq: 19 Jun 2025 01:41

Tgt Ion:149 Resp: 308
Ion Ratio Lower Upper
149 100
167 33.4 24.6 37.0
279 24.7 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037330.D

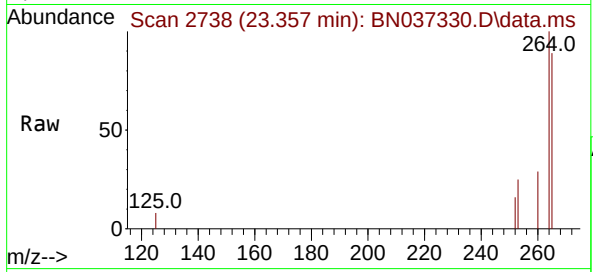
Acq: 19 Jun 2025 01:41

Instrument :

BNA_N

ClientSampleId :

TT119S1-20250612



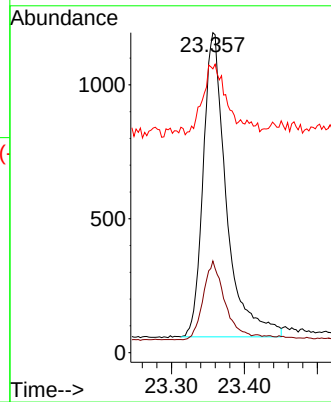
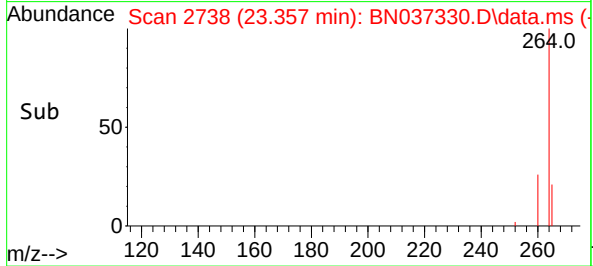
Tgt Ion:264 Resp: 2519

Ion Ratio Lower Upper

264 100

260 28.6 21.4 32.2

265 88.7 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	FB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037331.D	1	06/17/25 08:55	06/19/25 02:17	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		100%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		80%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		124%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	726		7.568			
1146-65-2	Naphthalene-d8	1560		10.351			
15067-26-2	Acenaphthene-d10	1140		14.224			
1517-22-2	Phenanthrene-d10	2310		16.971			
1719-03-5	Chrysene-d12	2350		21.171			
1520-96-3	Perylene-d12	2630		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\BN061925\
Data File : BN037331.D
Acq On : 19 Jun 2025 02:17
Operator : RC/JU
Sample : Q2329-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB01-20250613

Quant Time: Jun 19 16:12:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

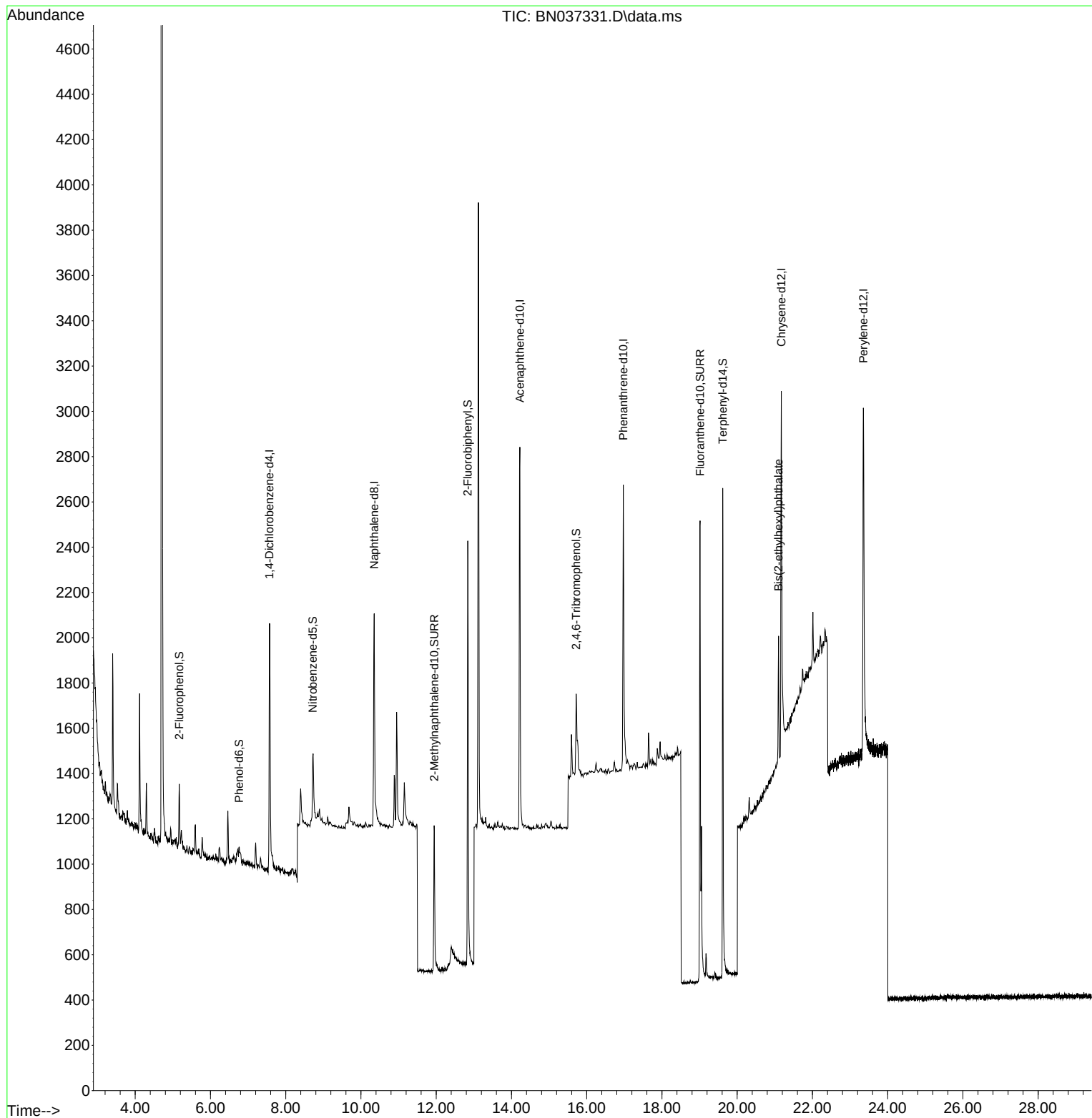
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	726	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1555	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1144	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2312	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2354	0.400	ng	0.00
35) Perylene-d12	23.354	264	2632	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	232	0.176	ng	0.00
5) Phenol-d6	6.759	99	107	0.082	ng	0.00
8) Nitrobenzene-d5	8.717	82	413	0.319	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	1006	0.398	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	311	0.369	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	2008	0.401	ng	0.00
27) Fluoranthene-d10	19.012	212	3293	0.449	ng	0.00
31) Terphenyl-d14	19.616	244	2681	0.496	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	575	0.185	ng	Qvalue 94

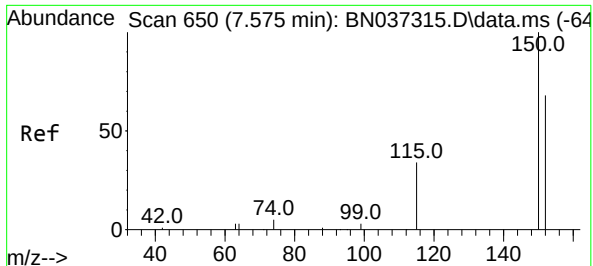
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037331.D
Acq On : 19 Jun 2025 02:17
Operator : RC/JU
Sample : Q2329-04
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
FB01-20250613

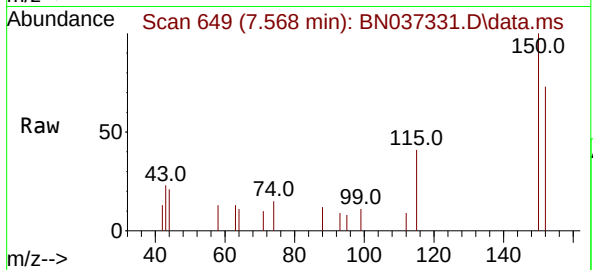
Quant Time: Jun 19 16:12:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration



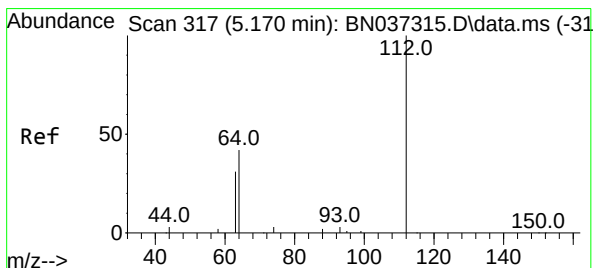
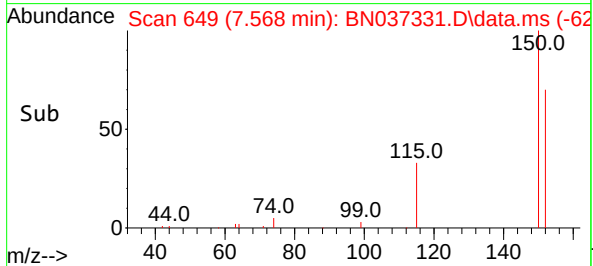
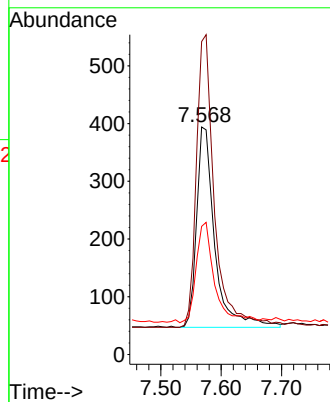


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.007 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Instrument :
BNA_N
ClientSampleId :
FB01-20250613

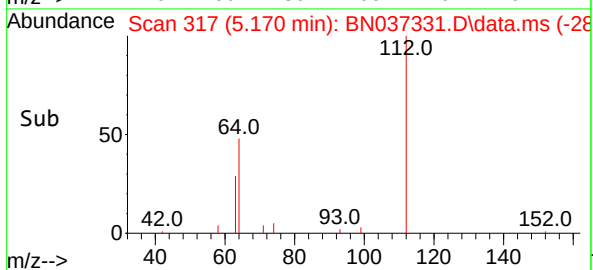
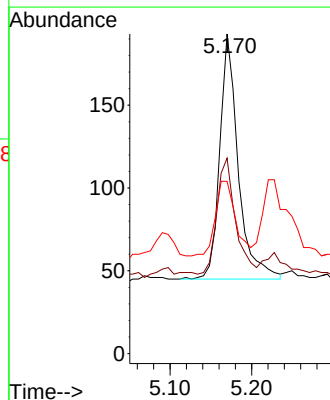
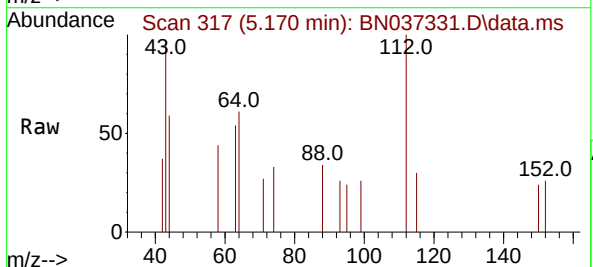


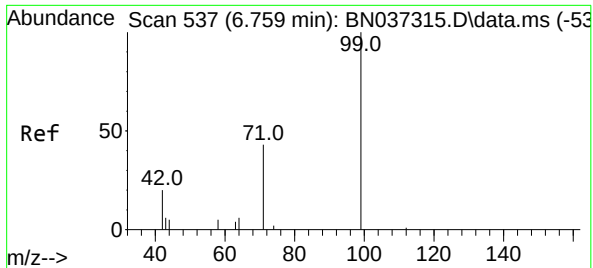
Tgt Ion:152 Resp: 726
Ion Ratio Lower Upper
152 100
150 137.6 112.7 169.1
115 56.3 45.9 68.9



#4
2-Fluorophenol
Concen: 0.176 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Tgt Ion:112 Resp: 232
Ion Ratio Lower Upper
112 100
64 49.1 38.7 58.1
63 34.9 26.4 39.6

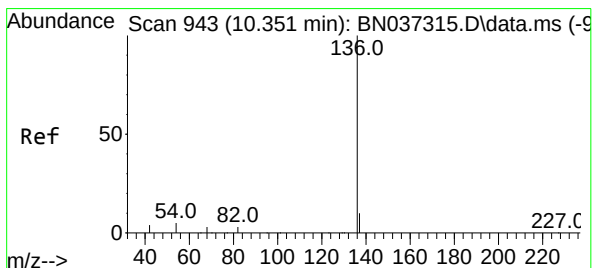
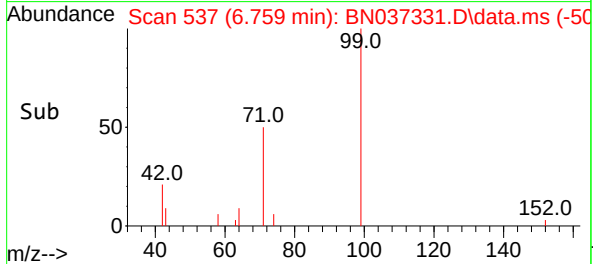
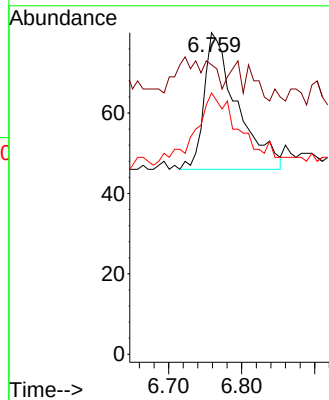
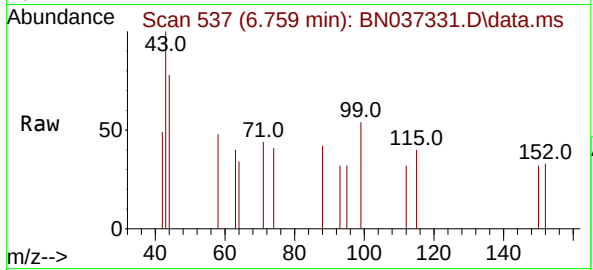




#5
Phenol-d6
Concen: 0.082 ng
RT: 6.759 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

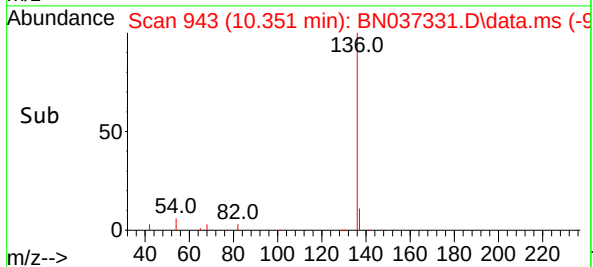
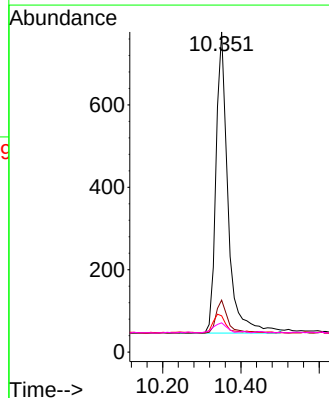
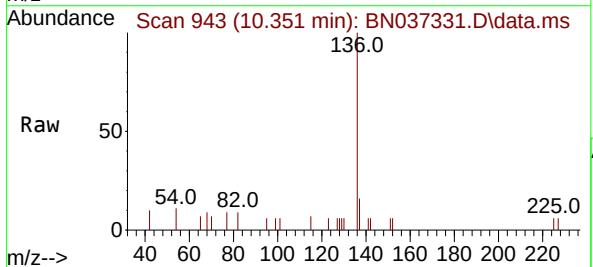
Instrument :
BNA_N
ClientSampleId :
FB01-20250613

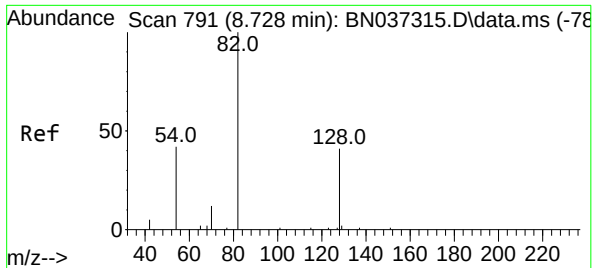
Tgt Ion: 99 Resp: 107
Ion Ratio Lower Upper
99 100
42 0.0 19.8 29.8#
71 67.3 42.6 64.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Tgt Ion: 136 Resp: 1555
Ion Ratio Lower Upper
136 100
137 16.2 12.2 18.2
54 11.3 8.8 13.2
68 9.1 7.0 10.4

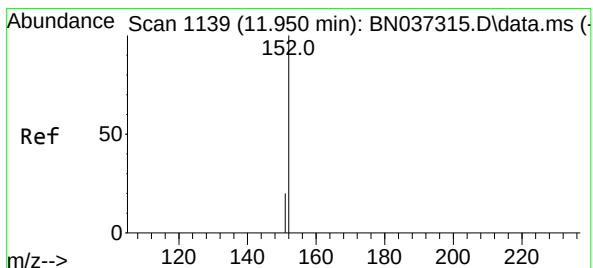
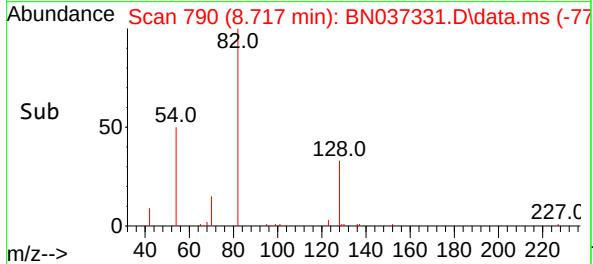
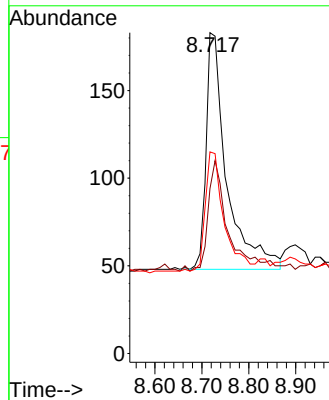
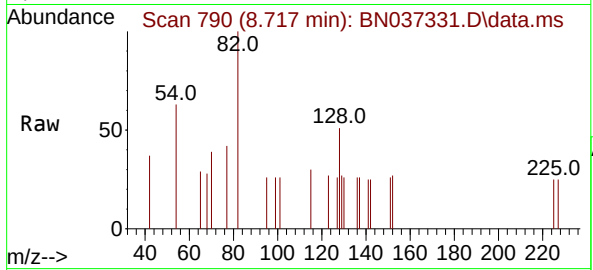




#8
Nitrobenzene-d5
Concen: 0.319 ng
RT: 8.717 min Scan# 791
Delta R.T. -0.011 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

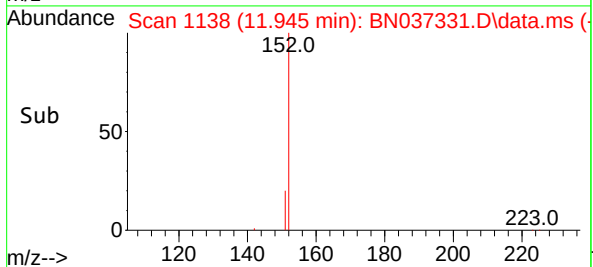
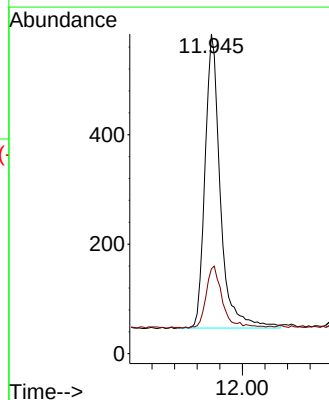
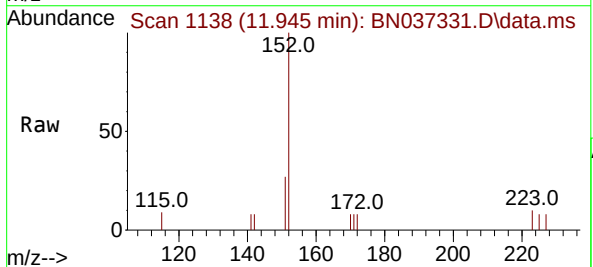
Instrument :
BNA_N
ClientSampleId :
FB01-20250613

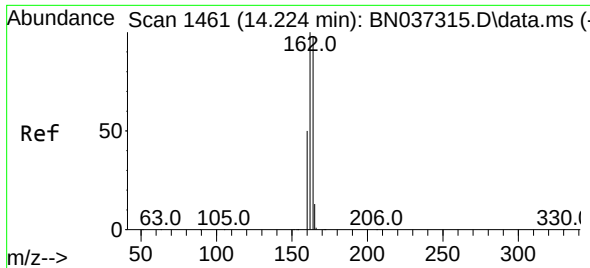
Tgt Ion:	82	Resp:	413
Ion	Ratio	Lower	Upper
82	100		
128	51.4	42.5	63.7
54	62.8	43.2	64.8



#11
2-Methylnaphthalene-d10
Concen: 0.398 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Tgt Ion:	152	Resp:	1006
Ion	Ratio	Lower	Upper
152	100		
151	22.6	17.4	26.0

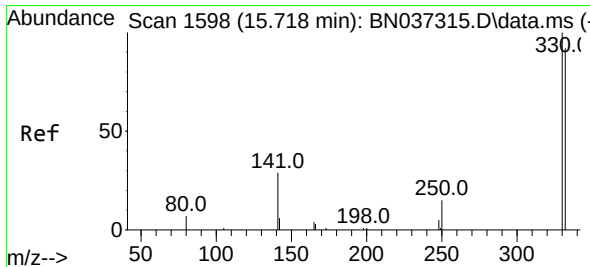
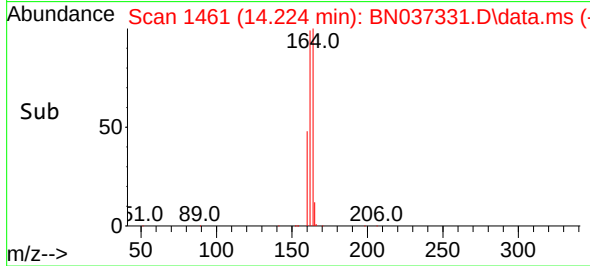
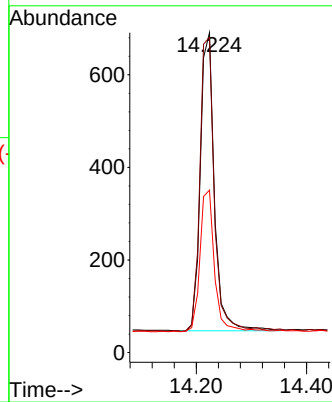
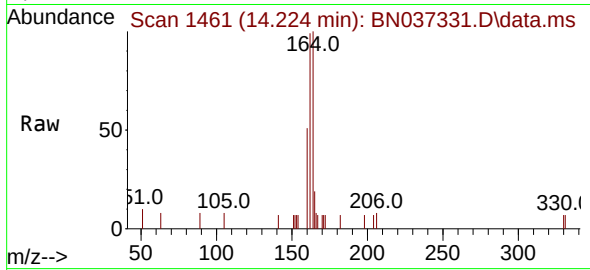




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

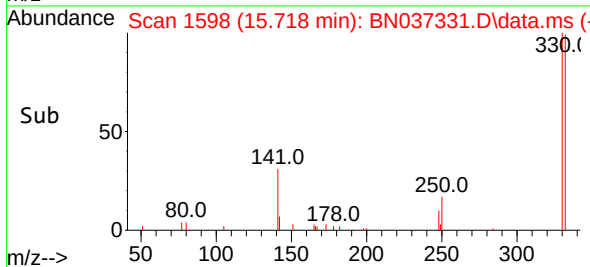
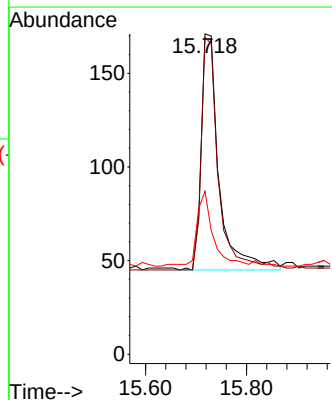
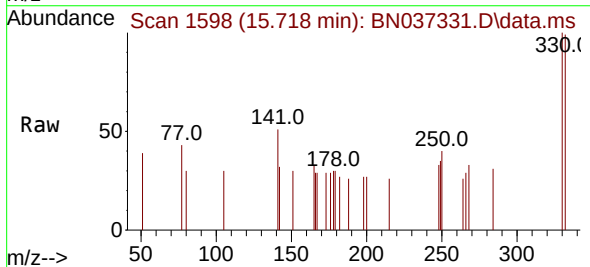
Instrument :
BNA_N
ClientSampleId :
FB01-20250613

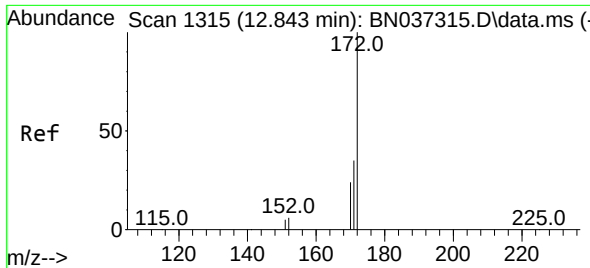
Tgt Ion:164 Resp: 1144
Ion Ratio Lower Upper
164 100
162 98.6 81.5 122.3
160 50.8 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.369 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Tgt Ion:330 Resp: 311
Ion Ratio Lower Upper
330 100
332 93.2 78.4 117.6
141 28.6 24.4 36.6

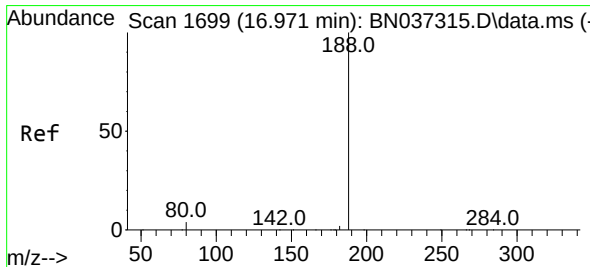
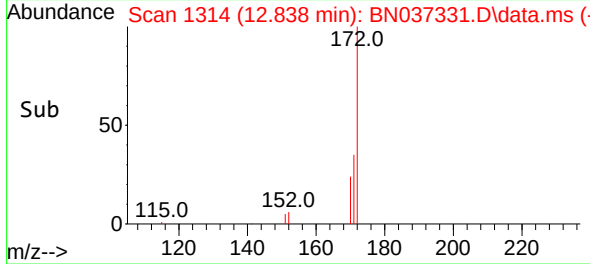
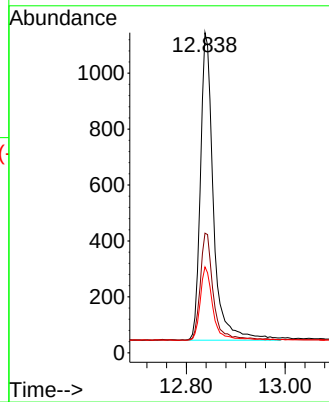
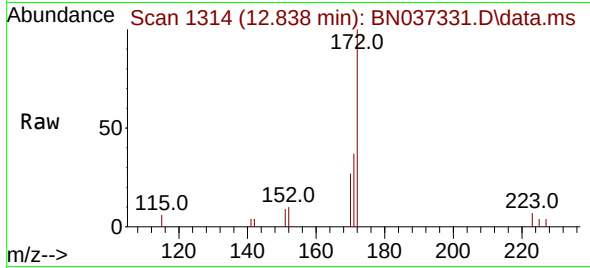




#15
2-Fluorobiphenyl
Concen: 0.401 ng
RT: 12.838 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

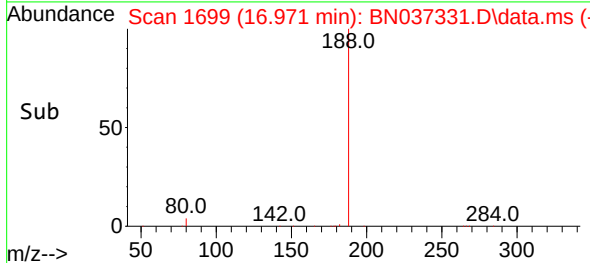
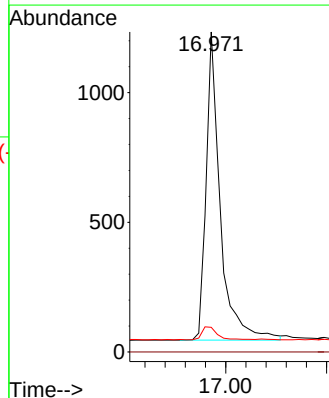
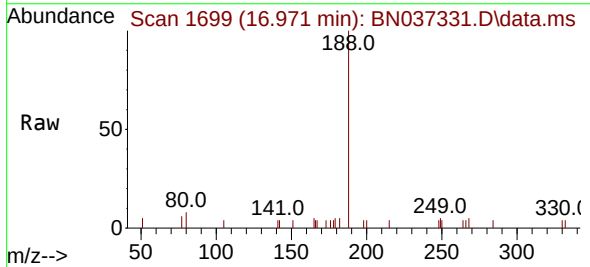
Instrument :
BNA_N
ClientSampleId :
FB01-20250613

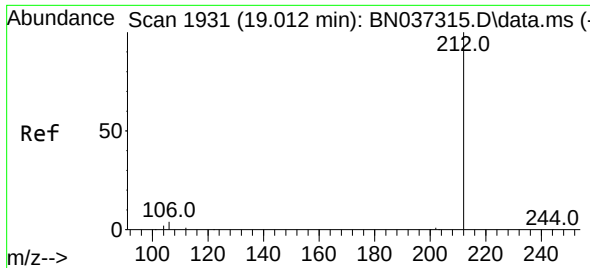
Tgt Ion:	172	Resp:	2008
Ion	Ratio	Lower	Upper
172	100		
171	37.4	30.8	46.2
170	26.8	21.9	32.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Tgt Ion:	188	Resp:	2312
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	7.7	6.2	9.2

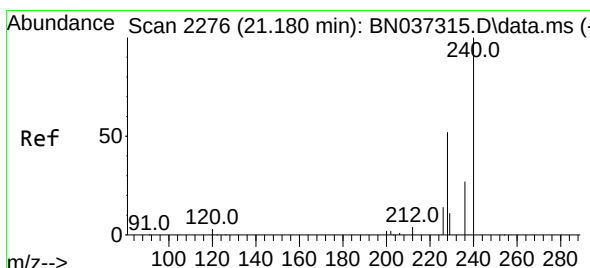
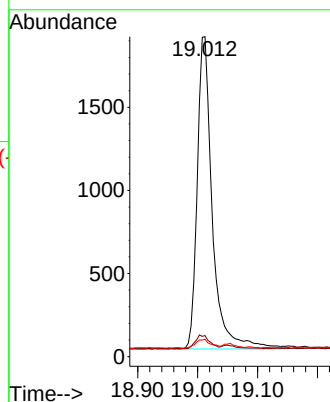
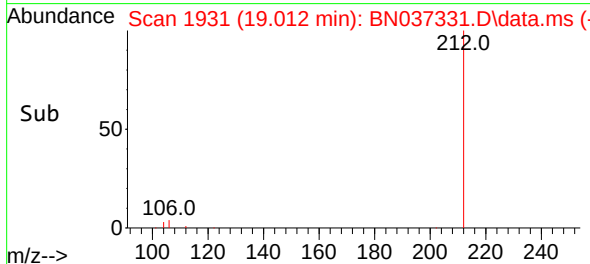
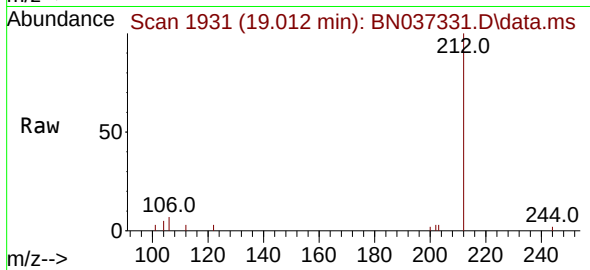




#27
Fluoranthene-d10
Concen: 0.449 ng
RT: 19.012 min Scan# 1931
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

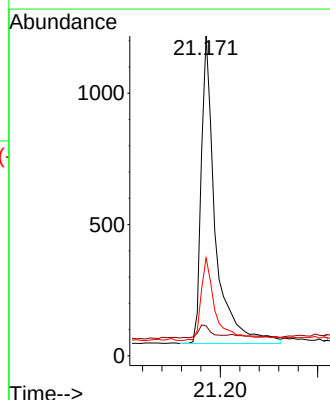
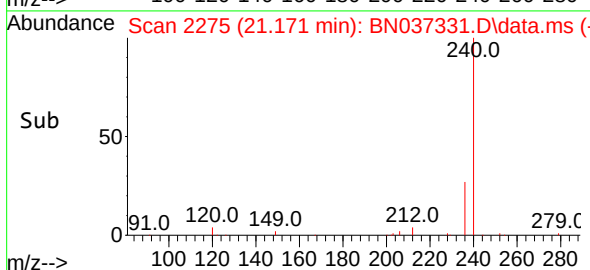
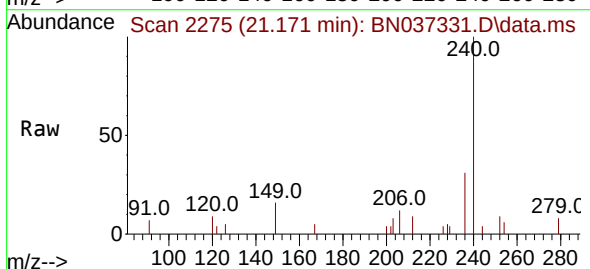
Instrument :
BNA_N
ClientSampleId :
FB01-20250613

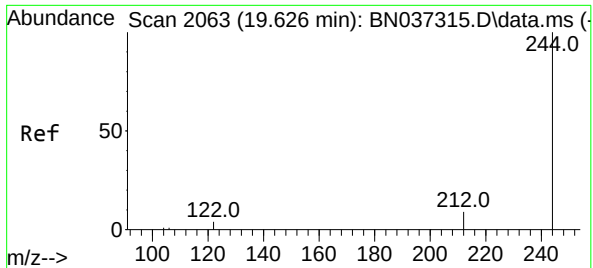
Tgt Ion	Ratio	Lower	Upper
212	100		
106	4.4	3.0	4.4
104	2.8	2.0	3.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.5	11.3
236	30.6	24.9	37.3

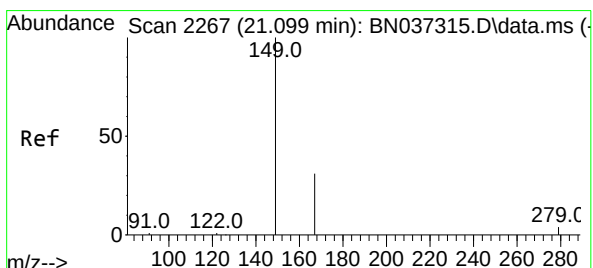
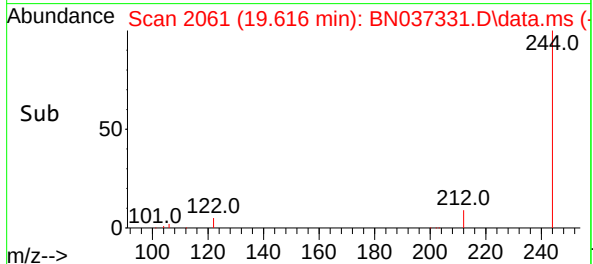
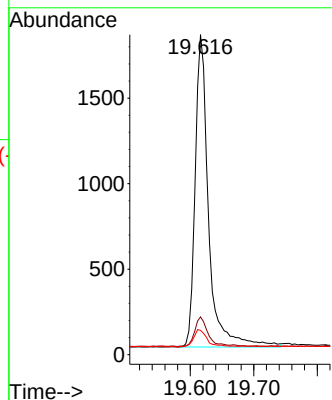
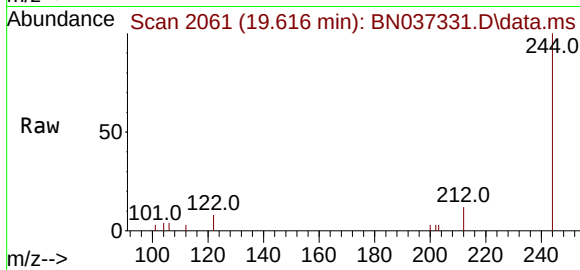




#31
Terphenyl-d14
Concen: 0.496 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

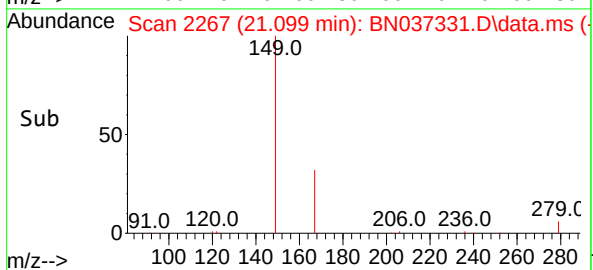
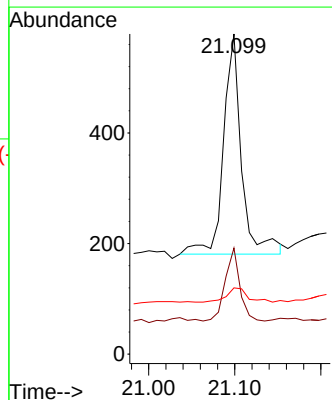
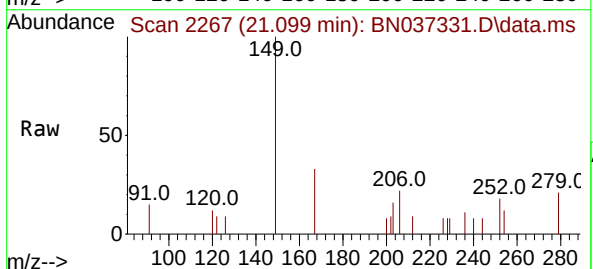
Instrument :
BNA_N
ClientSampleId :
FB01-20250613

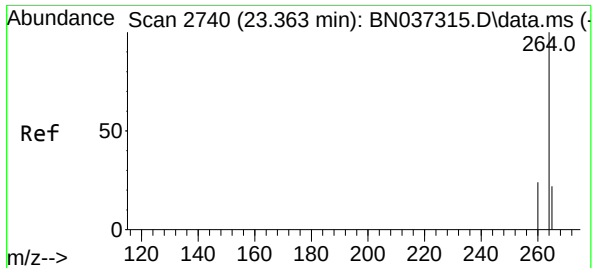
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.8	11.1	16.7
122	7.6	7.2	10.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.185 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037331.D
Acq: 19 Jun 2025 02:17

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.8	24.6	37.0
279	7.5	6.5	9.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037331.D

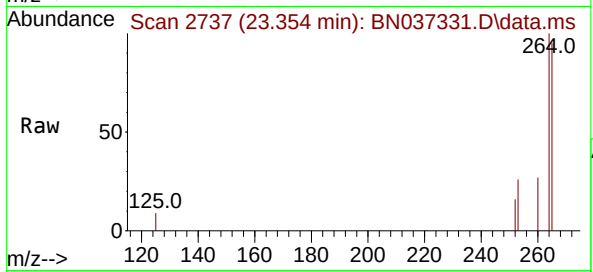
Acq: 19 Jun 2025 02:17

Instrument :

BNA_N

ClientSampleId :

FB01-20250613



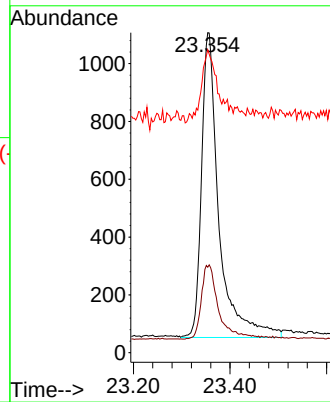
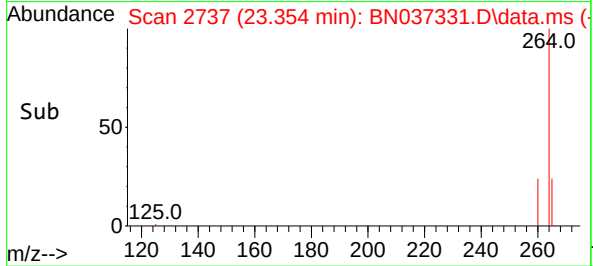
Tgt Ion:264 Resp: 2632

Ion Ratio Lower Upper

264 100

260 26.7 21.4 32.2

265 94.7 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.		Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258		Date Received:	06/13/25
Client Sample ID:	TT162S1-20250613		SDG No.:	Q2329
Lab Sample ID:	Q2329-05		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
BN037332.D	1	06/17/25 08:55	06/19/25 02:53	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		90%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	715	7.575				
1146-65-2	Naphthalene-d8	1480	10.351				
15067-26-2	Acenaphthene-d10	1100	14.224				
1517-22-2	Phenanthrene-d10	2290	16.971				
1719-03-5	Chrysene-d12	2300	21.171				
1520-96-3	Perylene-d12	2450	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\BN061925\
Data File : BN037332.D
Acq On : 19 Jun 2025 02:53
Operator : RC/JU
Sample : Q2329-05
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT162S1-20250613

Quant Time: Jun 19 04:05:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

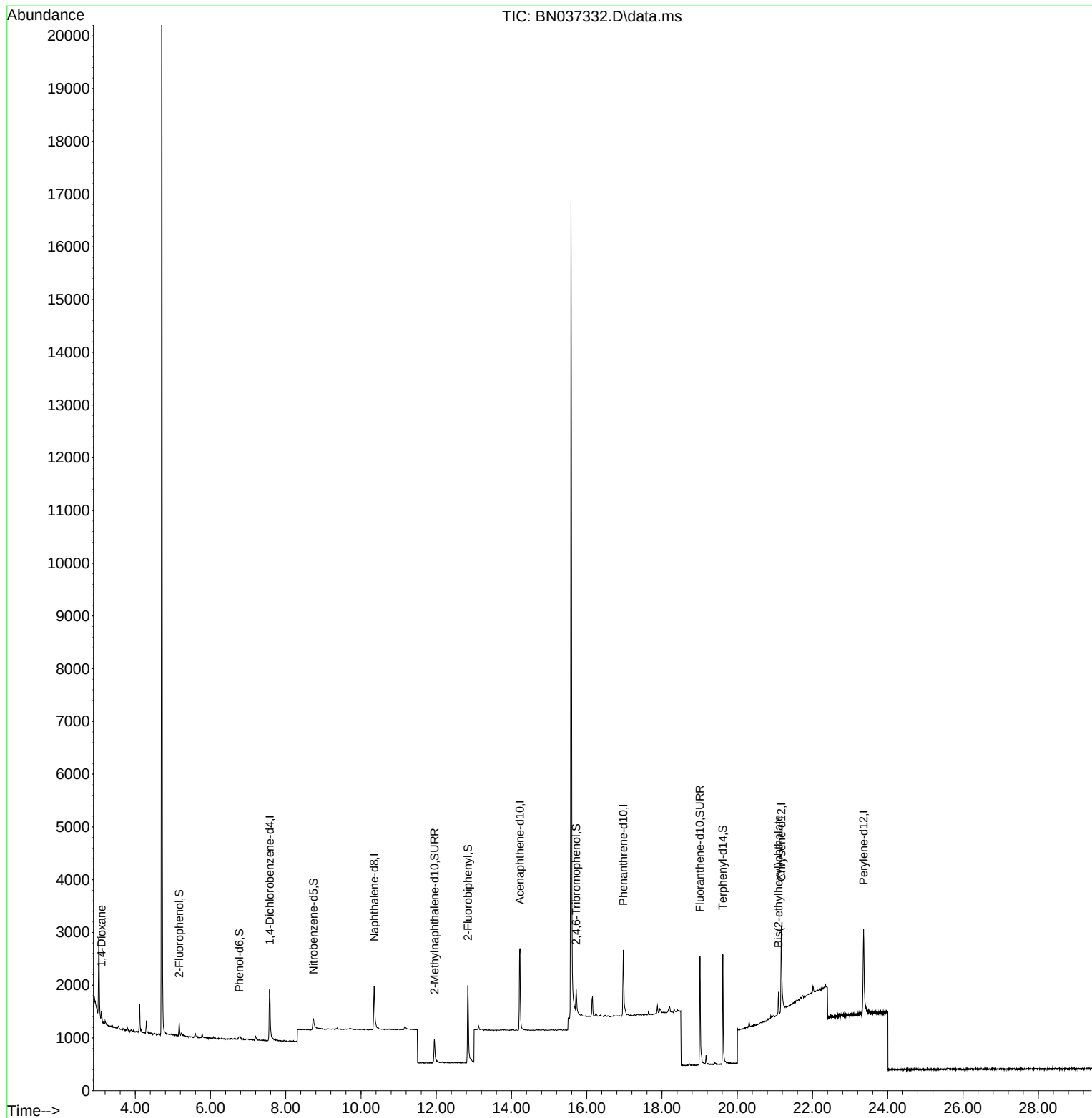
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	715	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1482	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1103	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2287	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2301	0.400	ng	0.00
35) Perylene-d12	23.357	264	2452	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	188	0.145	ng	0.00
5) Phenol-d6	6.766	99	77	0.060	ng	0.00
8) Nitrobenzene-d5	8.739	82	375	0.304	ng	0.01
11) 2-Methylnaphthalene-d10	11.950	152	859	0.356	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	320	0.393	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1734	0.359	ng	0.00
27) Fluoranthene-d10	19.007	212	3149	0.434	ng	0.00
31) Terphenyl-d14	19.616	244	2635	0.499	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	130	0.204	ng	# 22
34) Bis(2-ethylhexyl)phtha...	21.099	149	421	0.139	ng	99

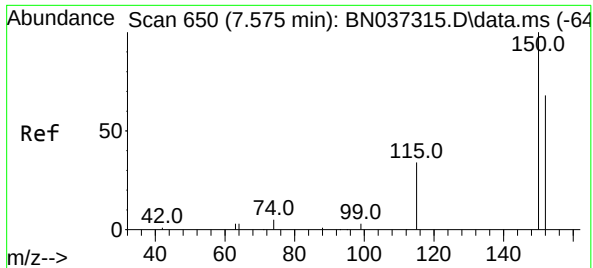
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037332.D
Acq On : 19 Jun 2025 02:53
Operator : RC/JU
Sample : Q2329-05
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT162S1-20250613

Quant Time: Jun 19 04:05:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

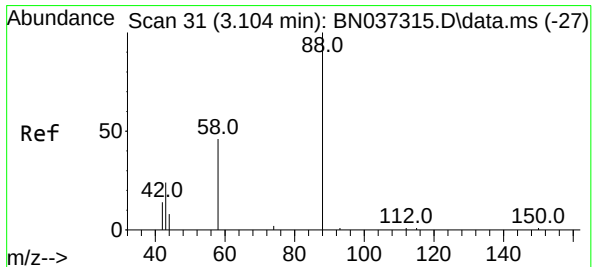
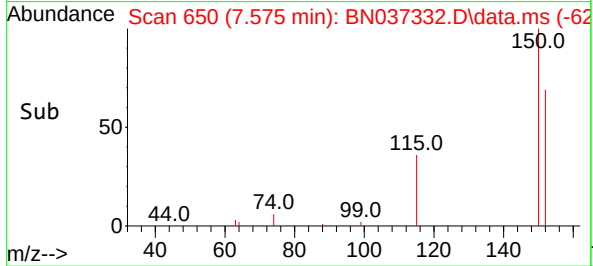
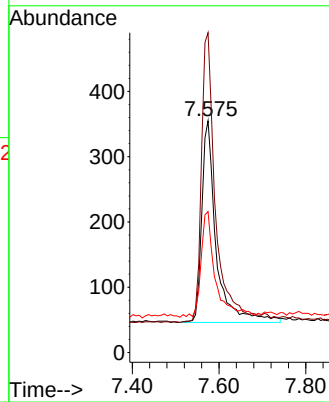
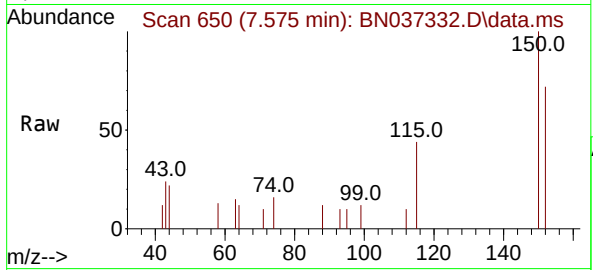




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

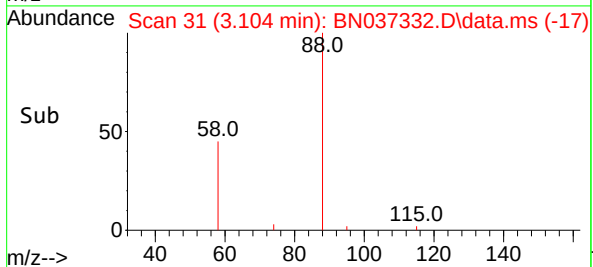
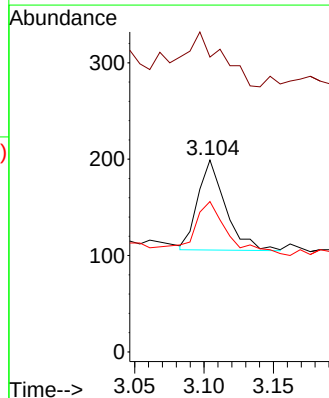
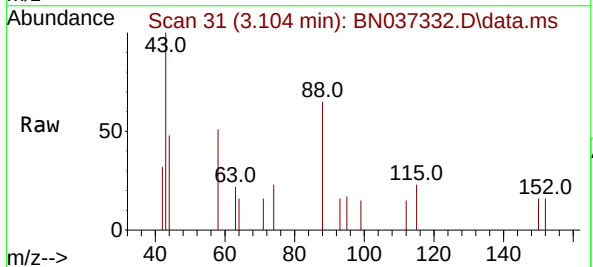
Instrument :
BNA_N
ClientSampleId :
TT162S1-20250613

Tgt Ion:152 Resp: 715
Ion Ratio Lower Upper
152 100
150 138.0 112.7 169.1
115 60.8 45.9 68.9

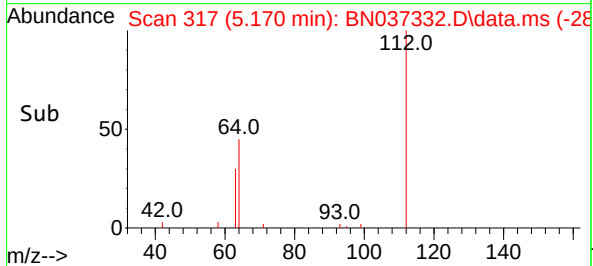
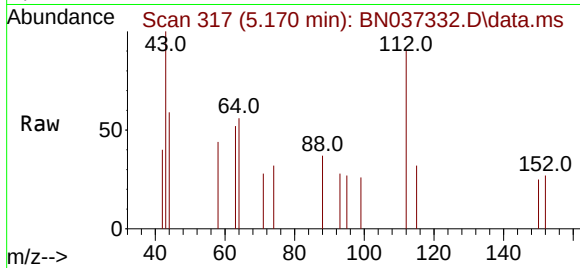
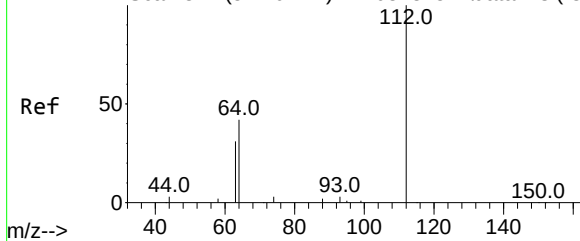


#2
1,4-Dioxane
Concen: 0.204 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

Tgt Ion: 88 Resp: 130
Ion Ratio Lower Upper
88 100
43 100.0 21.0 31.6#
58 75.4 38.0 57.0#



Abundance Scan 317 (5.170 min): BN037315.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.145 ng

RT: 5.170 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037332.D

Acq: 19 Jun 2025 02:53

Instrument :

BNA_N

ClientSampleId :

TT162S1-20250613

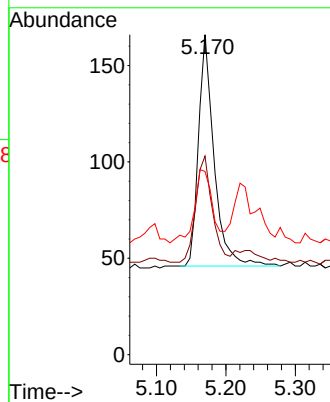
Tgt Ion:112 Resp: 188

Ion Ratio Lower Upper

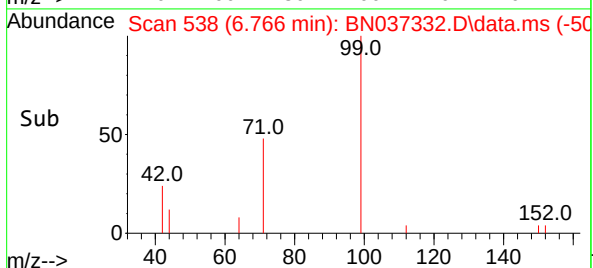
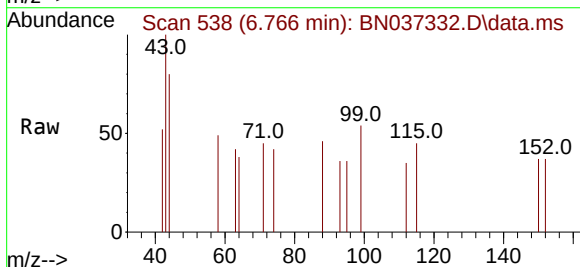
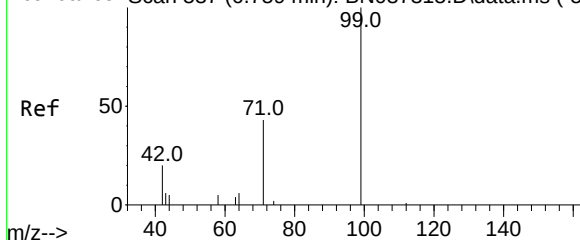
112 100

64 50.5 38.7 58.1

63 35.1 26.4 39.6



Abundance Scan 537 (6.759 min): BN037315.D\data.ms (-53



#5

Phenol-d6

Concen: 0.060 ng

RT: 6.766 min Scan# 538

Delta R.T. 0.007 min

Lab File: BN037332.D

Acq: 19 Jun 2025 02:53

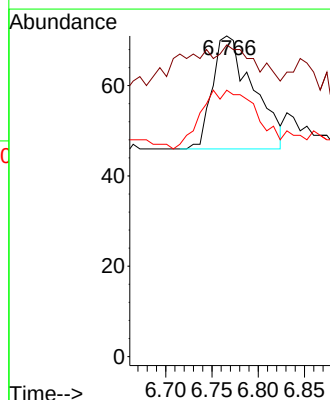
Tgt Ion: 99 Resp: 77

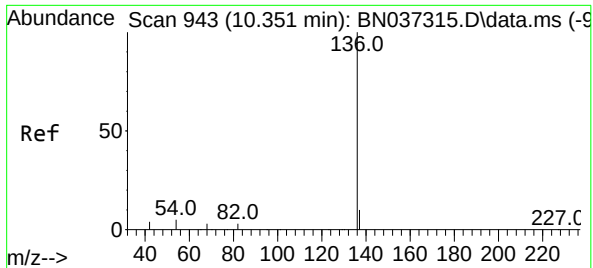
Ion Ratio Lower Upper

99 100

42 22.1 19.8 29.8

71 70.1 42.6 64.0#

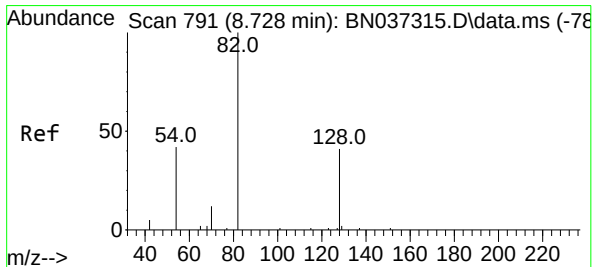
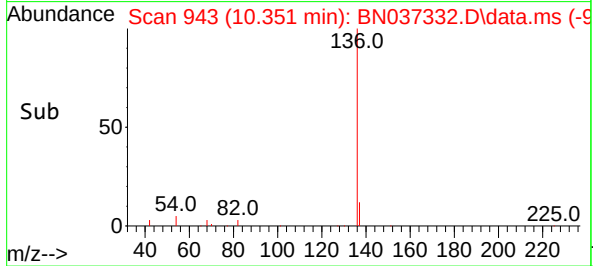
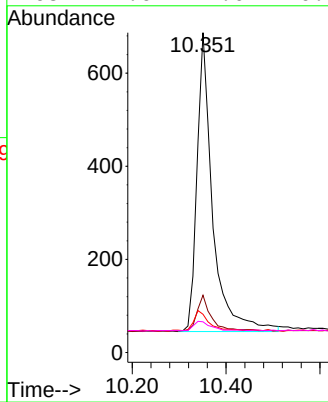
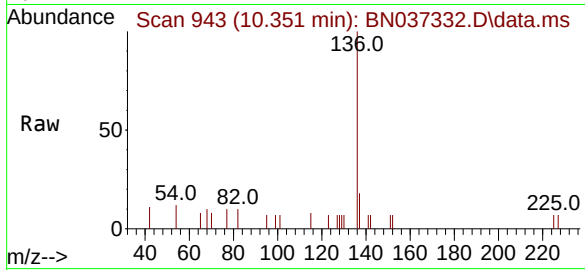




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

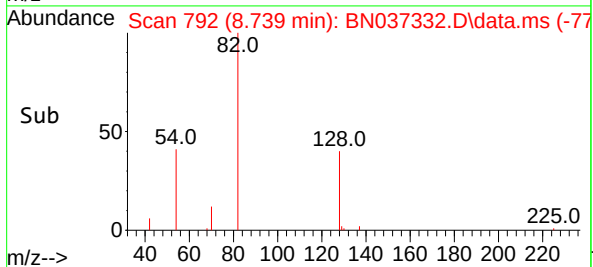
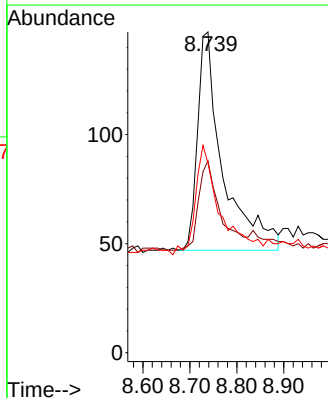
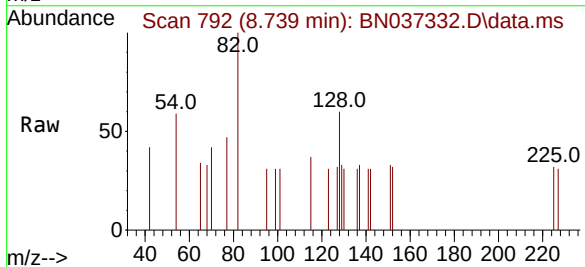
Instrument :
BNA_N
ClientSampleId :
TT162S1-20250613

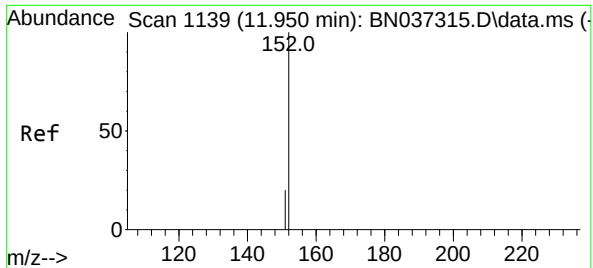
Tgt Ion:	136	Resp:	1482
Ion	Ratio	Lower	Upper
136	100		
137	17.9	12.2	18.2
54	11.9	8.8	13.2
68	9.6	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.304 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.010 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

Tgt Ion:	82	Resp:	375
Ion	Ratio	Lower	Upper
82	100		
128	59.9	42.5	63.7
54	59.2	43.2	64.8

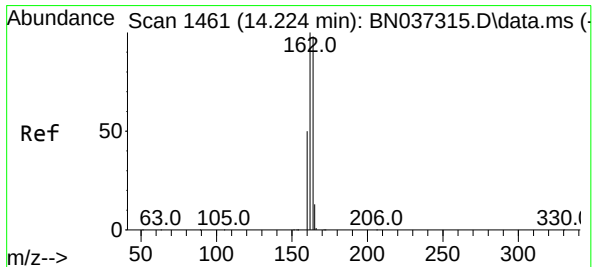
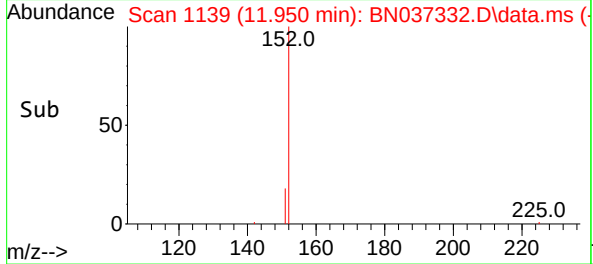
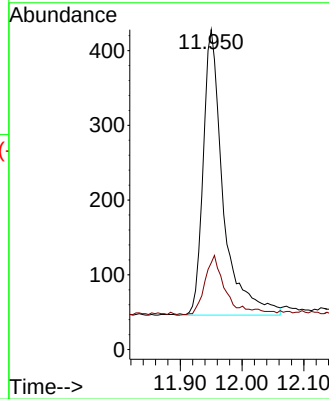
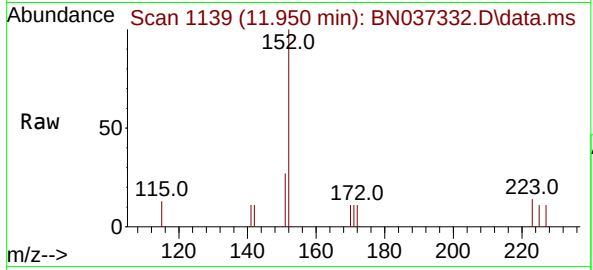




#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

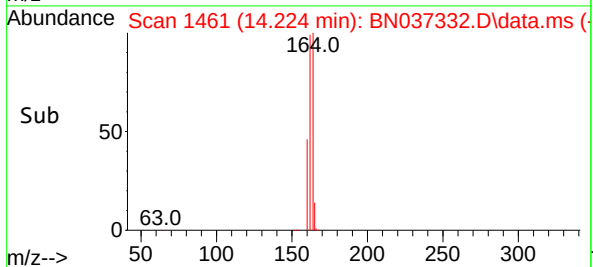
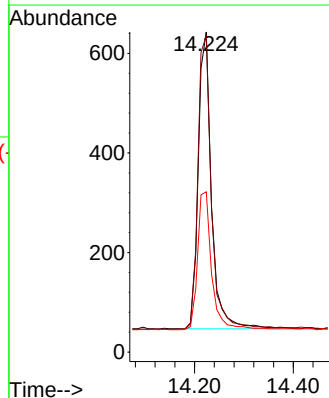
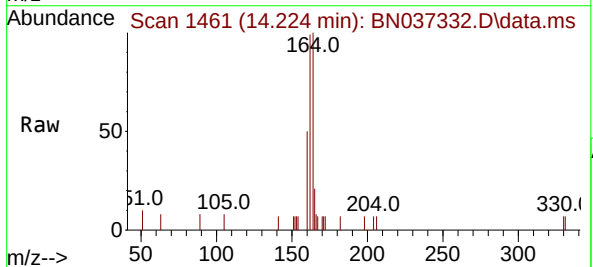
Instrument :
BNA_N
ClientSampleId :
TT162S1-20250613

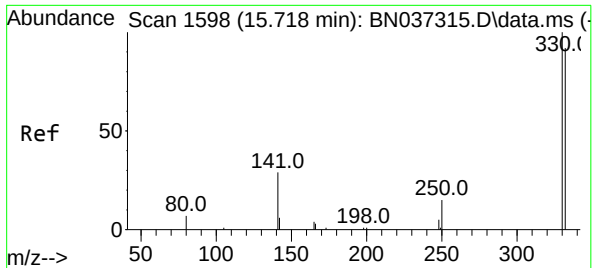
Tgt Ion:152 Resp: 859
Ion Ratio Lower Upper
152 100
151 20.1 17.4 26.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

Tgt Ion:164 Resp: 1103
Ion Ratio Lower Upper
164 100
162 98.8 81.5 122.3
160 50.1 43.0 64.4

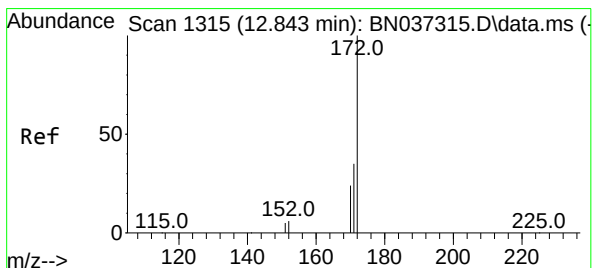
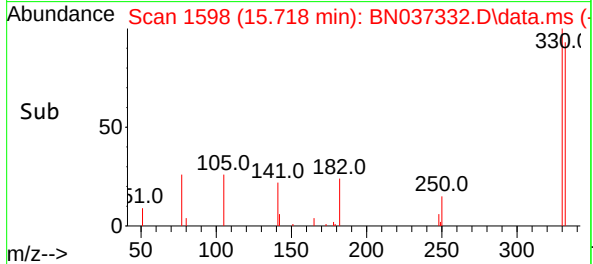
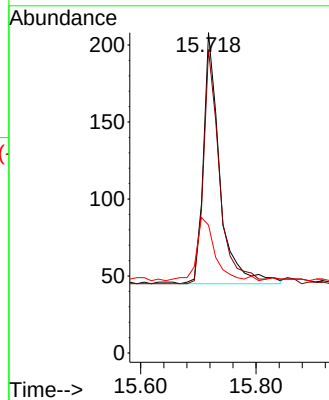
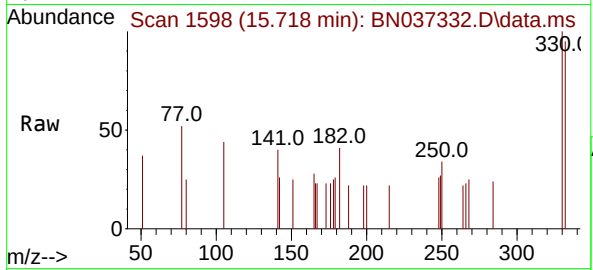




#14
2,4,6-Tribromophenol
Concen: 0.393 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

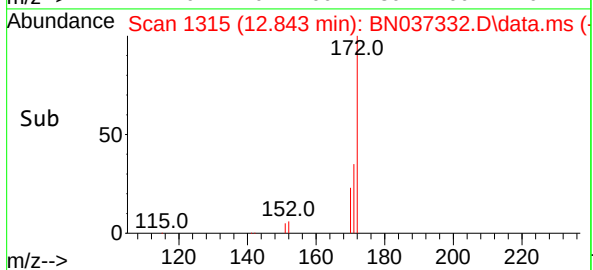
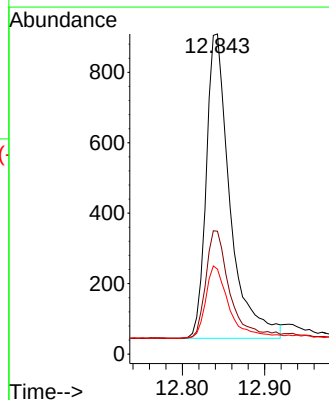
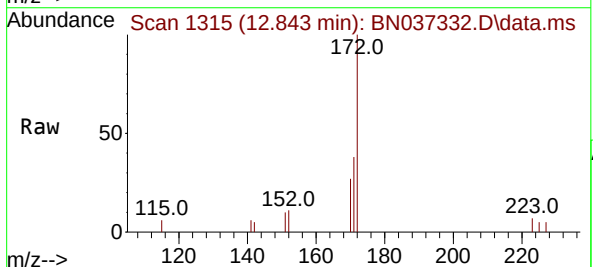
Instrument :
BNA_N
ClientSampleId :
TT162S1-20250613

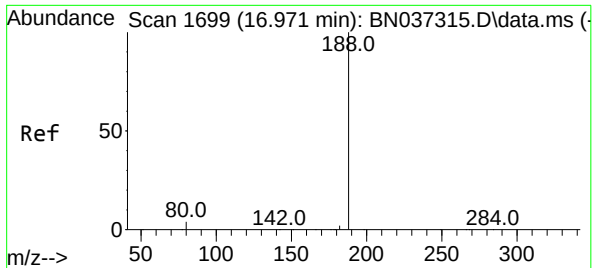
Tgt Ion:	330	Resp:	320
Ion	Ratio	Lower	Upper
330	100		
332	92.2	78.4	117.6
141	28.7	24.4	36.6



#15
2-Fluorobiphenyl
Concen: 0.359 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BN037332.D
Acq: 19 Jun 2025 02:53

Tgt Ion:	172	Resp:	1734
Ion	Ratio	Lower	Upper
172	100		
171	38.4	30.8	46.2
170	26.5	21.9	32.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037332.D

Acq: 19 Jun 2025 02:53

Instrument :

BNA_N

ClientSampleId :

TT162S1-20250613

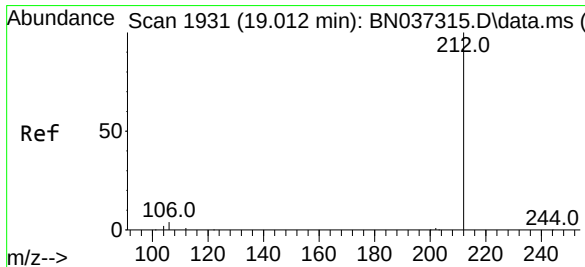
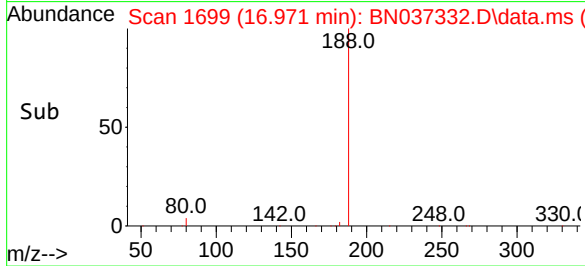
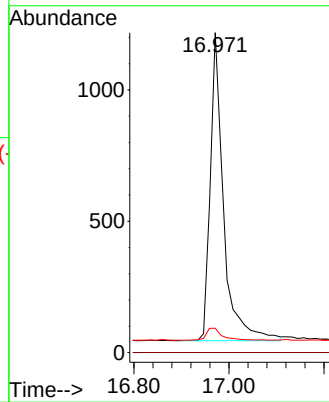
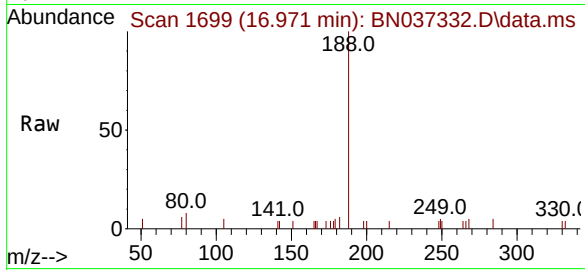
Tgt Ion:188 Resp: 2287

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.6 6.2 9.2



#27

Fluoranthene-d10

Concen: 0.434 ng

RT: 19.007 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037332.D

Acq: 19 Jun 2025 02:53

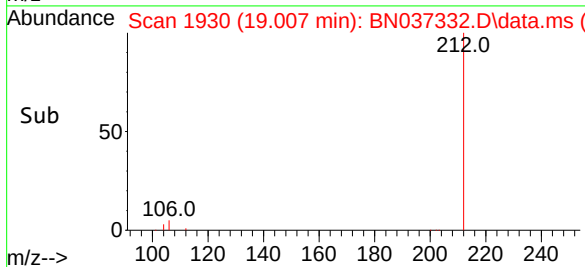
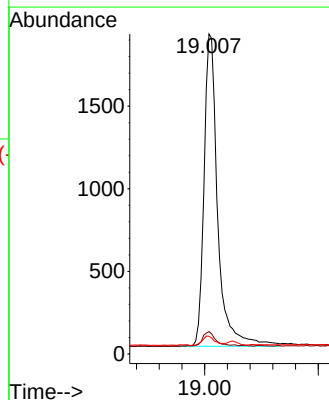
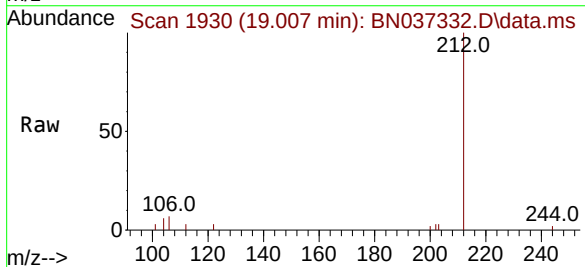
Tgt Ion:212 Resp: 3149

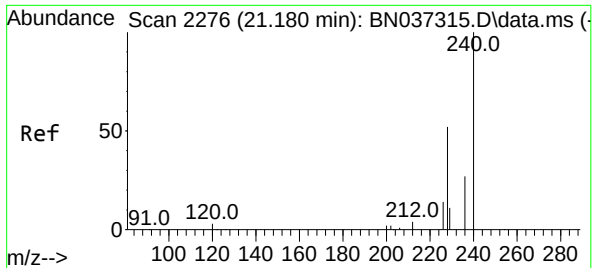
Ion Ratio Lower Upper

212 100

106 4.4 3.0 4.4

104 2.9 2.0 3.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037332.D

Acq: 19 Jun 2025 02:53

Instrument :

BNA_N

ClientSampleId :

TT162S1-20250613

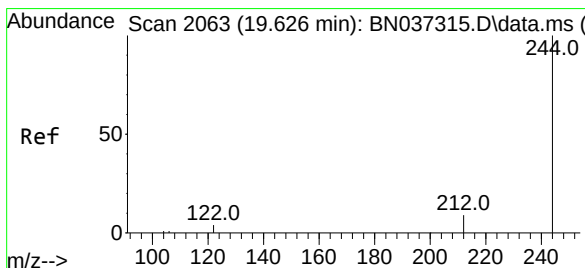
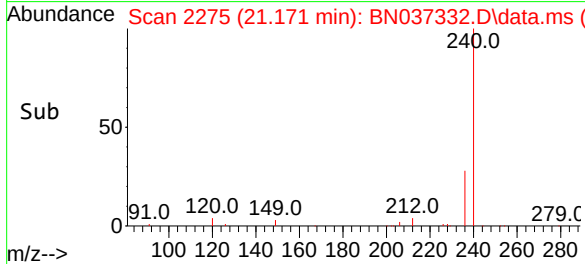
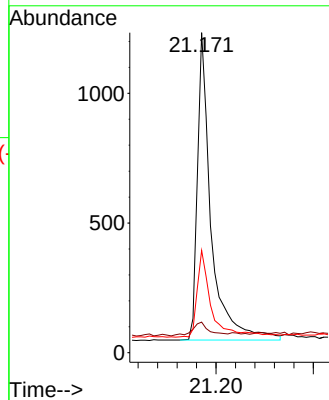
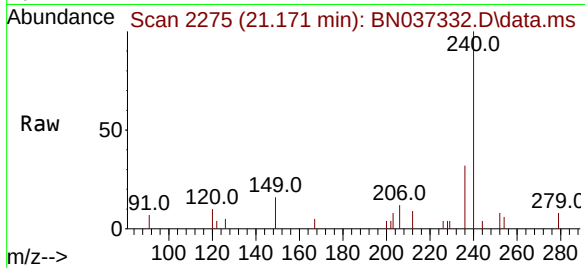
Tgt Ion:240 Resp: 2301

Ion Ratio Lower Upper

240 100

120 9.6 7.5 11.3

236 31.9 24.9 37.3



#31

Terphenyl-d14

Concen: 0.499 ng

RT: 19.616 min Scan# 2061

Delta R.T. -0.010 min

Lab File: BN037332.D

Acq: 19 Jun 2025 02:53

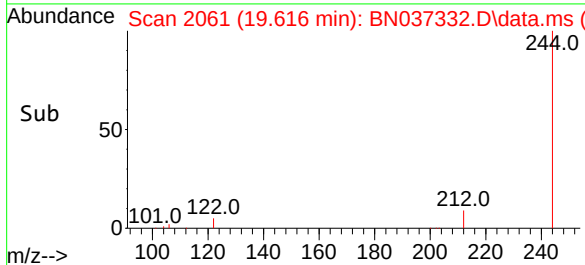
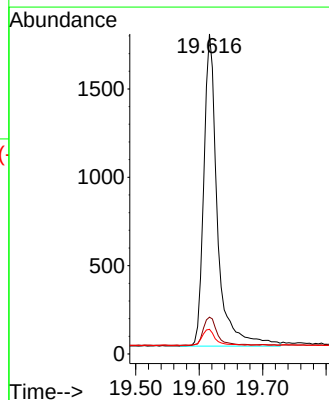
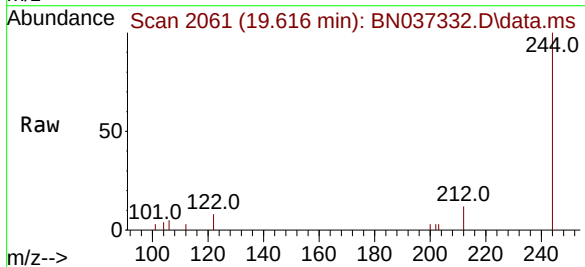
Tgt Ion:244 Resp: 2635

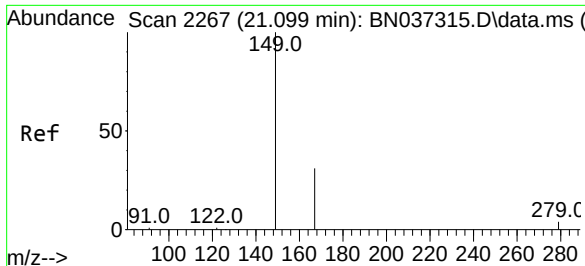
Ion Ratio Lower Upper

244 100

212 11.5 11.1 16.7

122 7.7 7.2 10.8

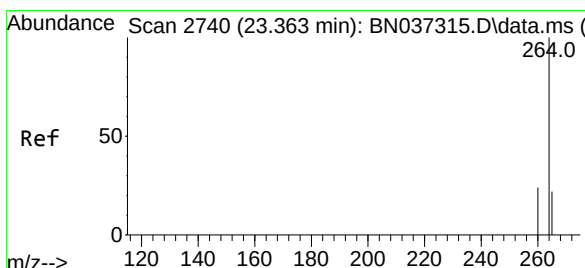
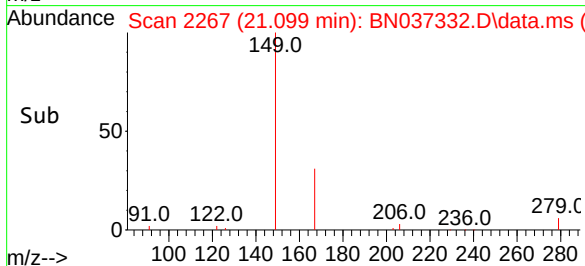
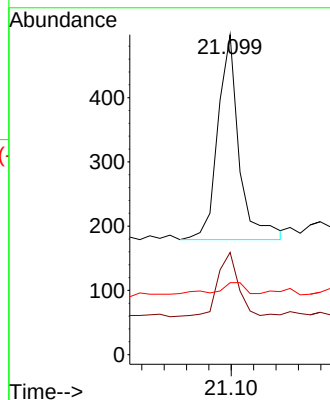
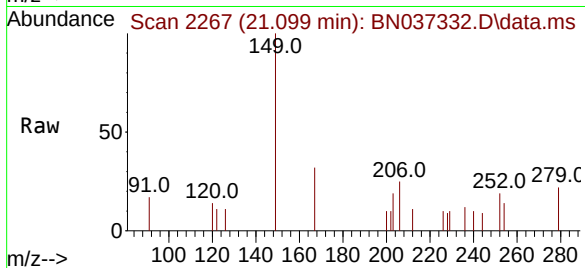




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.139 ng
 RT: 21.099 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN037332.D
 Acq: 19 Jun 2025 02:53

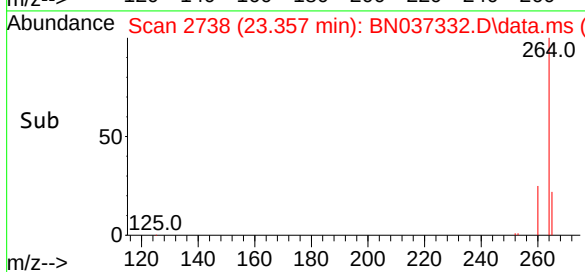
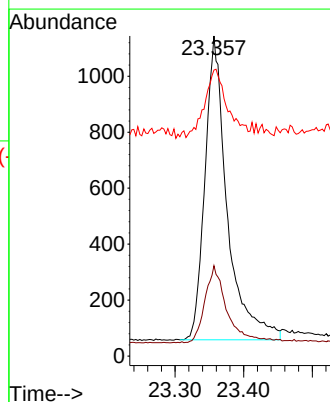
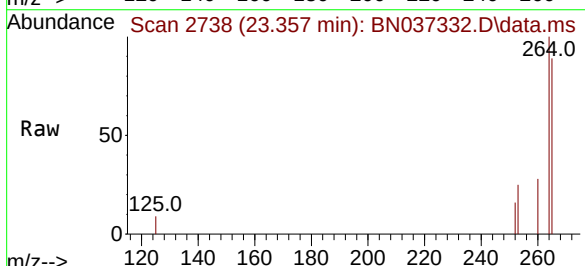
Instrument :
 BNA_N
 ClientSampleId :
 TT162S1-20250613

Tgt Ion:149 Resp: 421
 Ion Ratio Lower Upper
 149 100
 167 31.4 24.6 37.0
 279 7.1 6.5 9.7



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.357 min Scan# 2738
 Delta R.T. -0.006 min
 Lab File: BN037332.D
 Acq: 19 Jun 2025 02:53

Tgt Ion:264 Resp: 2452
 Ion Ratio Lower Upper
 264 100
 260 28.2 21.4 32.2
 265 89.3 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT149S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-09	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
BN037333.D	1	06/17/25 08:55	06/19/25 03:29	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		77%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	693	7.568				
1146-65-2	Naphthalene-d8	1540	10.351				
15067-26-2	Acenaphthene-d10	1130	14.224				
1517-22-2	Phenanthrene-d10	2490	16.971				
1719-03-5	Chrysene-d12	2570	21.171				
1520-96-3	Perylene-d12	2710	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\BN061925\
Data File : BN037333.D
Acq On : 19 Jun 2025 03:29
Operator : RC/JU
Sample : Q2329-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

Quant Time: Jun 19 04:05:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

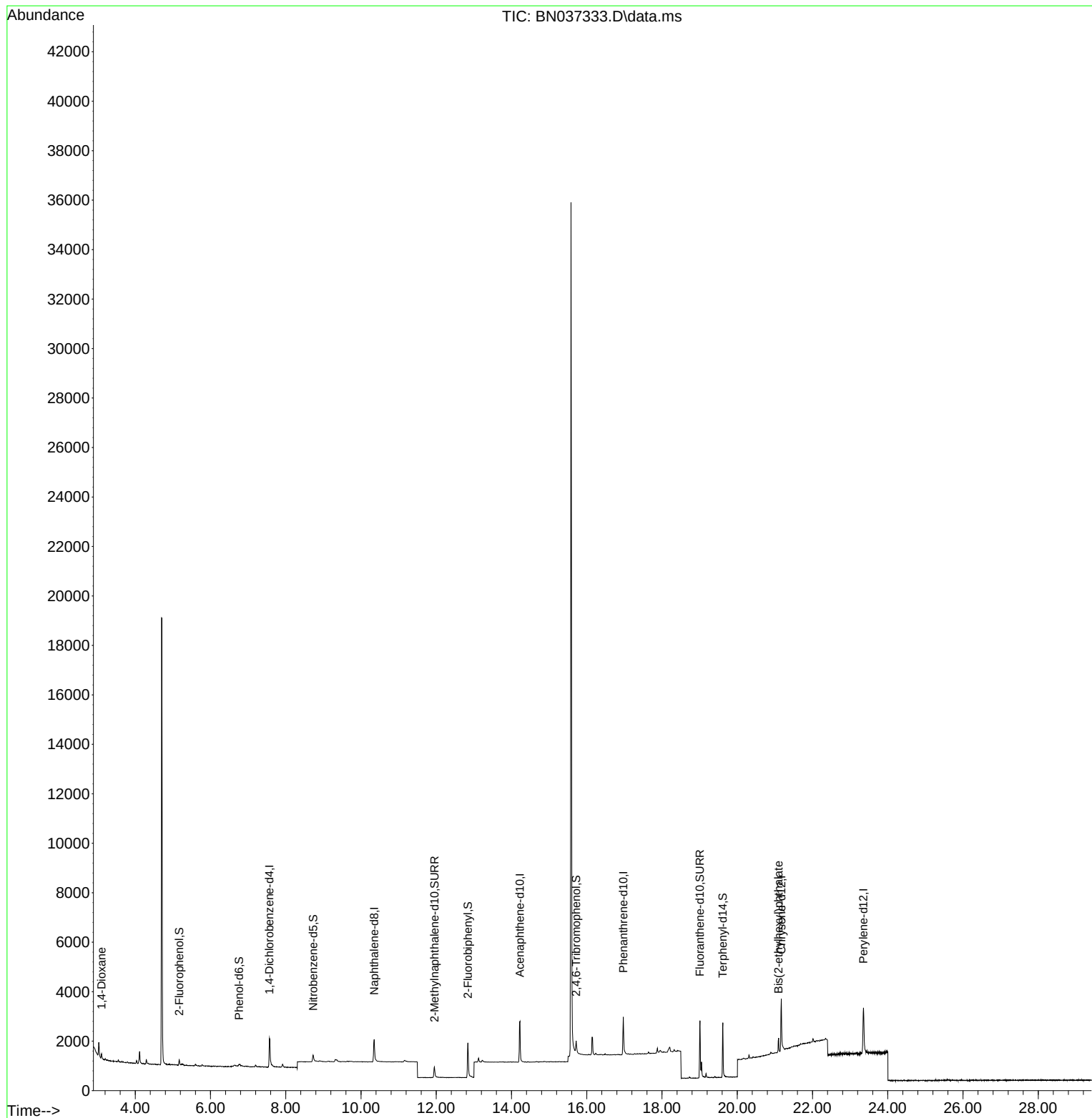
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	693	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1543	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1129	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2488	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2574	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	2711	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	184	0.146	ng	0.00
5) Phenol-d6	6.759	99	97	0.078	ng	0.00
8) Nitrobenzene-d5	8.728	82	386	0.300	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	772	0.308	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	302	0.363	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1555	0.314	ng	0.00
27) Fluoranthene-d10	19.008	212	3315	0.420	ng	0.00
31) Terphenyl-d14	19.616	244	2621	0.444	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	148	0.239	ng	# 54
34) Bis(2-ethylhexyl)phtha...	21.099	149	558	0.164	ng	# 97

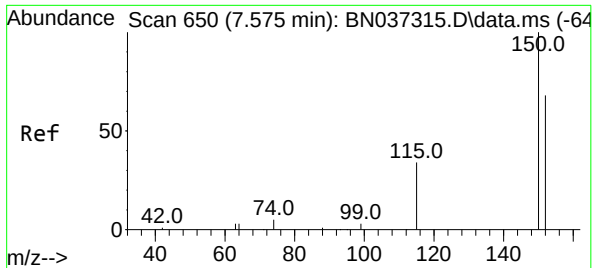
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037333.D
Acq On : 19 Jun 2025 03:29
Operator : RC/JU
Sample : Q2329-09
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

Quant Time: Jun 19 04:05:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

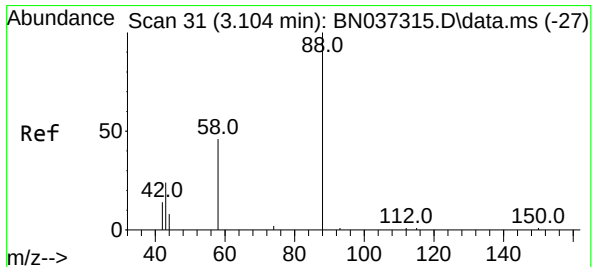
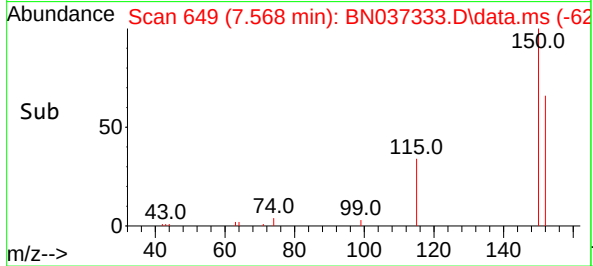
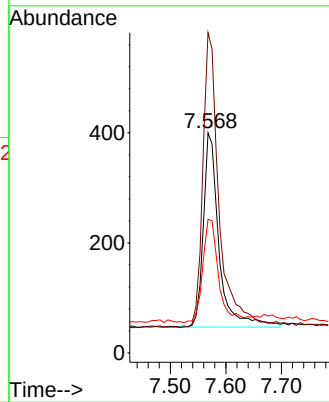
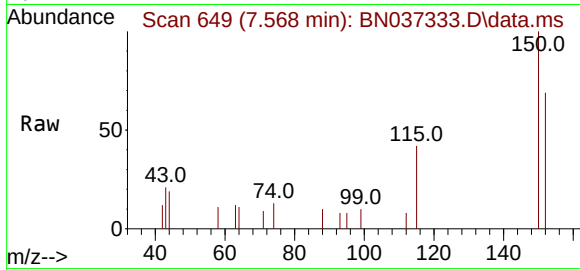




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.007 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

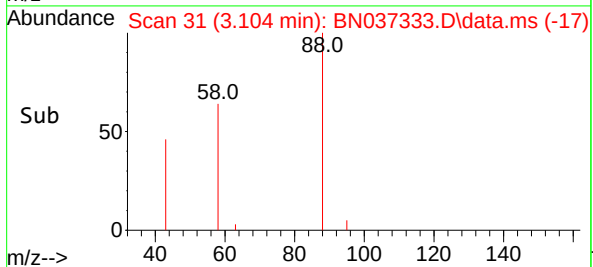
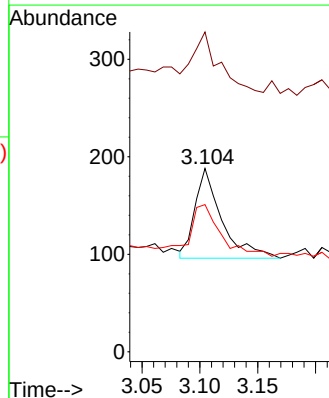
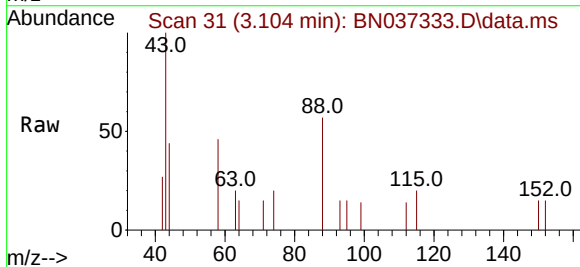
Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

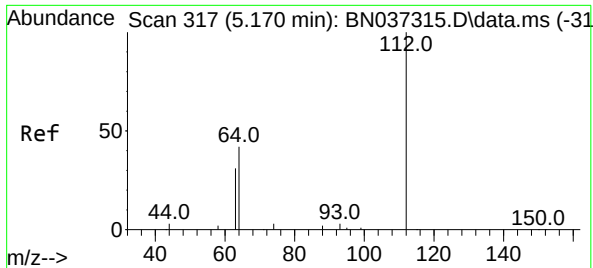
Tgt Ion:152 Resp: 693
Ion Ratio Lower Upper
152 100
150 145.5 112.7 169.1
115 60.8 45.9 68.9



#2
1,4-Dioxane
Concen: 0.239 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

Tgt Ion: 88 Resp: 148
Ion Ratio Lower Upper
88 100
43 66.2 21.0 31.6#
58 66.9 38.0 57.0#

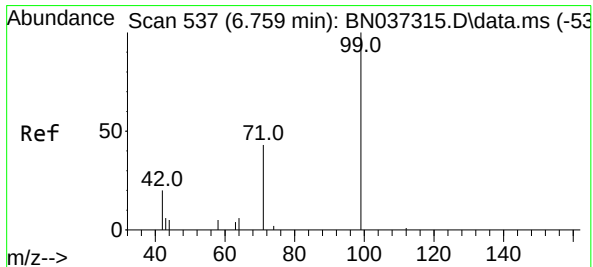
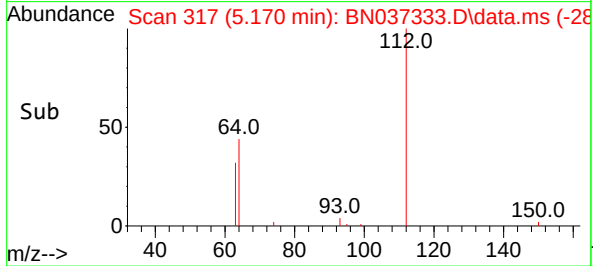
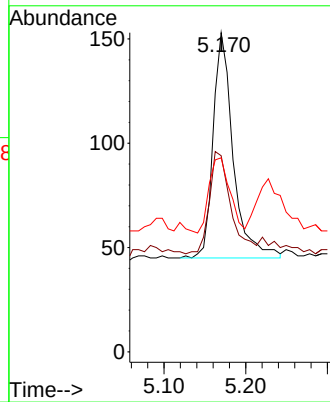
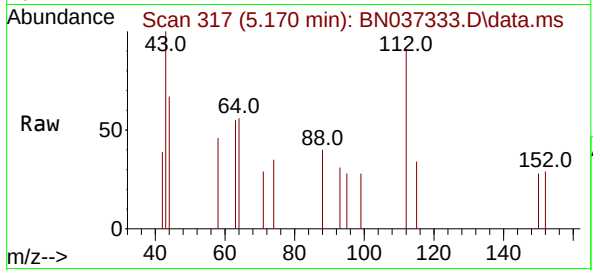




#4
2-Fluorophenol
Concen: 0.146 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

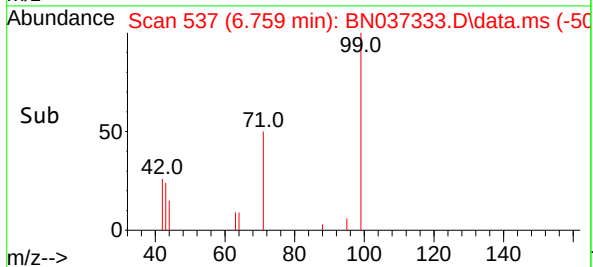
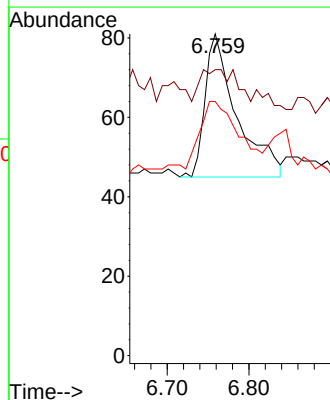
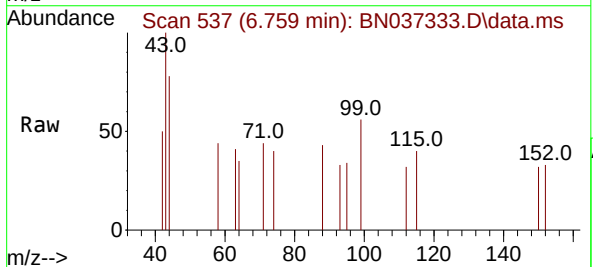
Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

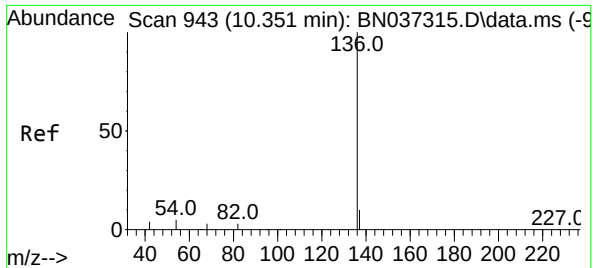
Tgt Ion:	112	Resp:	184
Ion	Ratio	Lower	Upper
112	100		
64	48.4	38.7	58.1
63	35.3	26.4	39.6



#5
Phenol-d6
Concen: 0.078 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

Tgt Ion:	99	Resp:	97
Ion	Ratio	Lower	Upper
99	100		
42	23.7	19.8	29.8
71	58.8	42.6	64.0

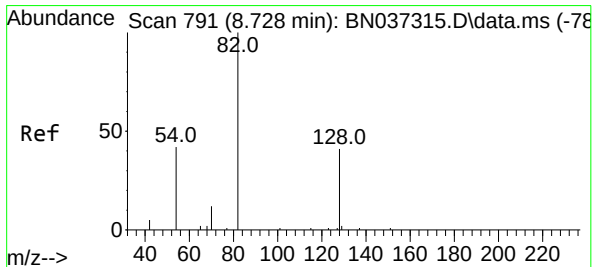
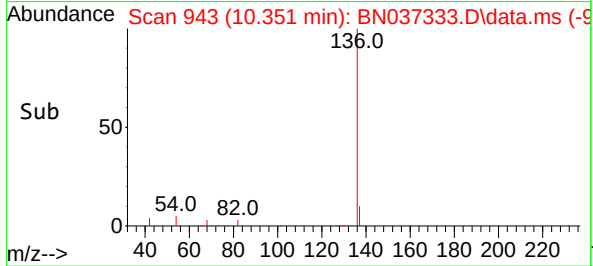
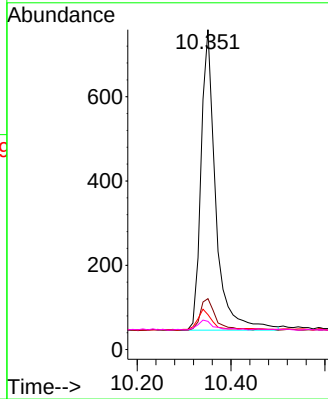
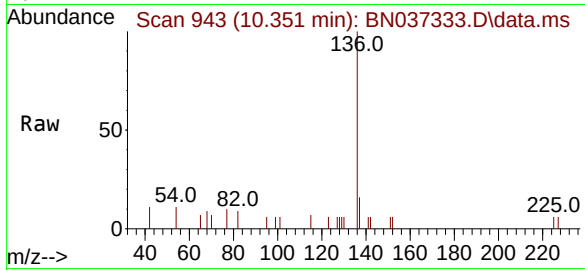




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

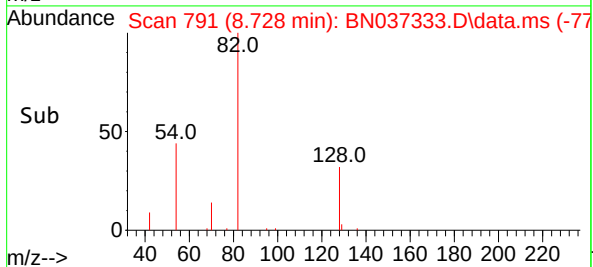
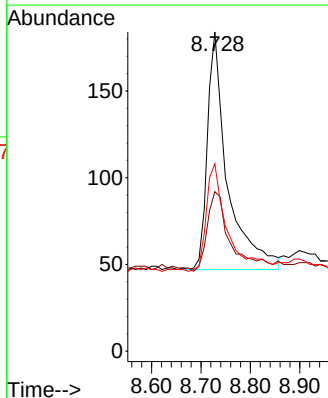
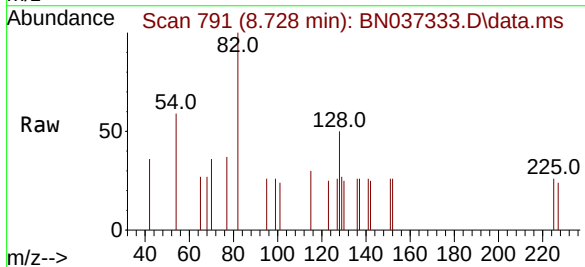
Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

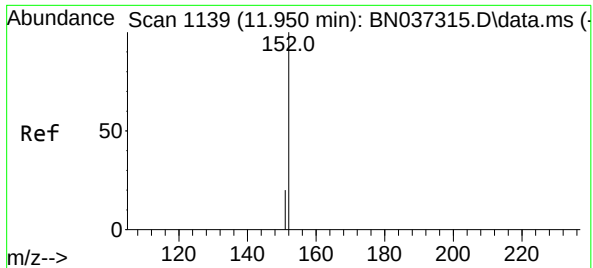
Tgt Ion:	136	Resp:	1543
Ion	Ratio	Lower	Upper
136	100		
137	15.9	12.2	18.2
54	10.9	8.8	13.2
68	8.8	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.300 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

Tgt Ion:	82	Resp:	386
Ion	Ratio	Lower	Upper
82	100		
128	50.0	42.5	63.7
54	58.7	43.2	64.8

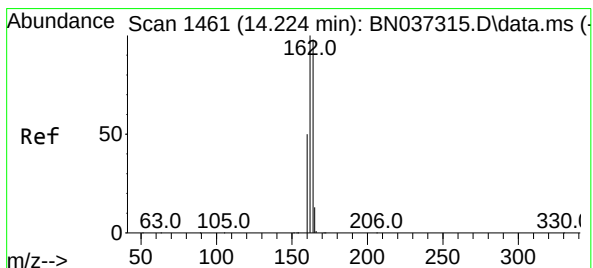
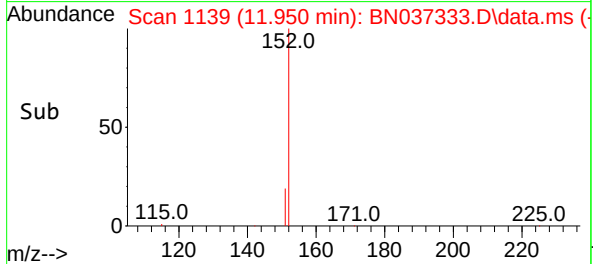
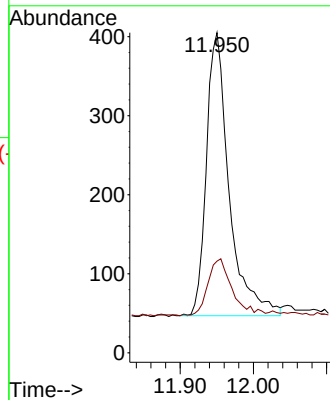
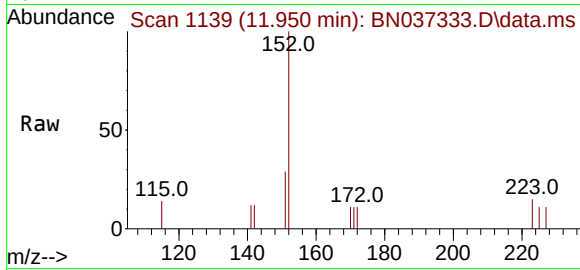




#11
2-Methylnaphthalene-d10
Concen: 0.308 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

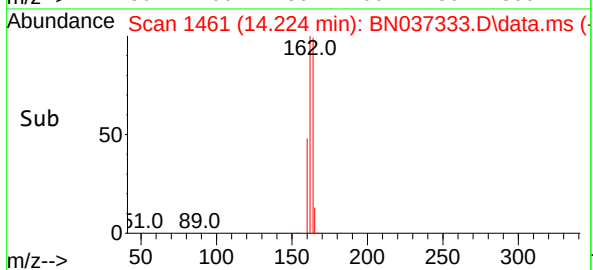
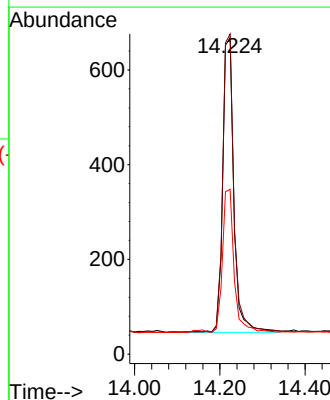
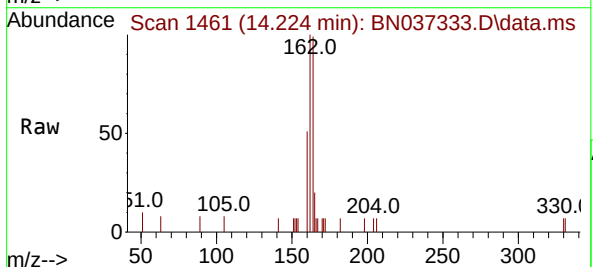
Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

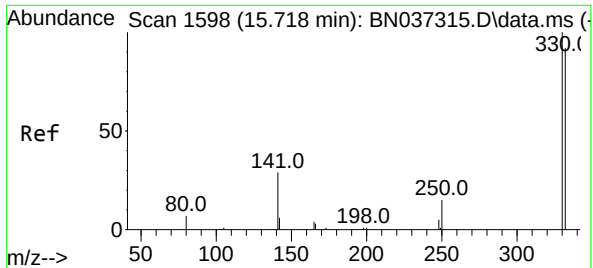
Tgt Ion:152 Resp: 772
Ion Ratio Lower Upper
152 100
151 21.5 17.4 26.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

Tgt Ion:164 Resp: 1129
Ion Ratio Lower Upper
164 100
162 101.2 81.5 122.3
160 52.1 43.0 64.4

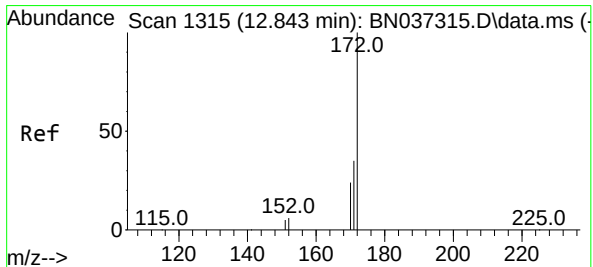
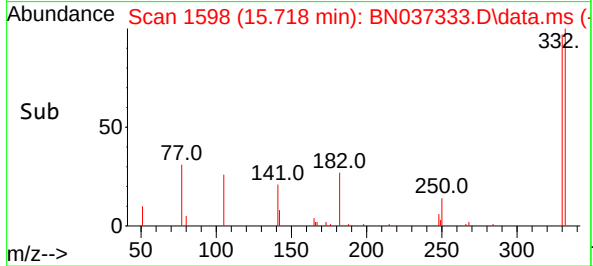
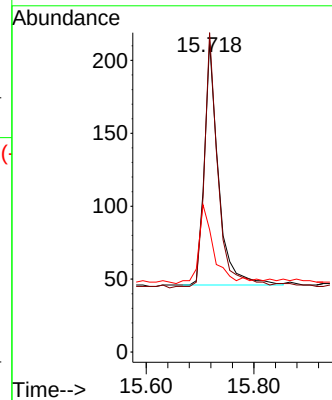
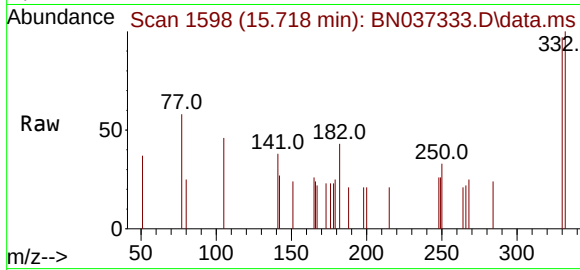




#14
2,4,6-Tribromophenol
Concen: 0.363 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

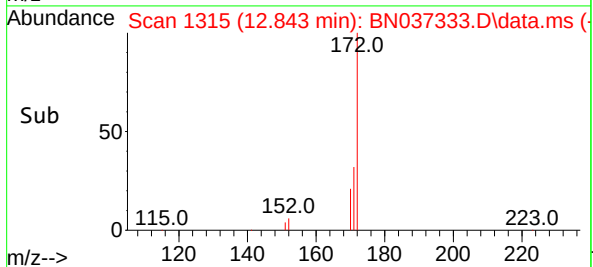
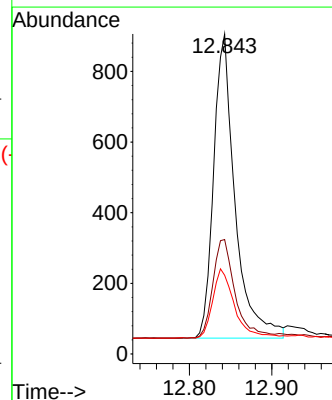
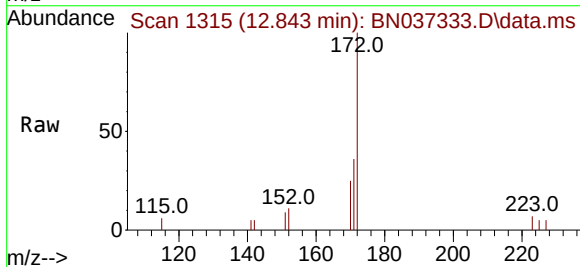
Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

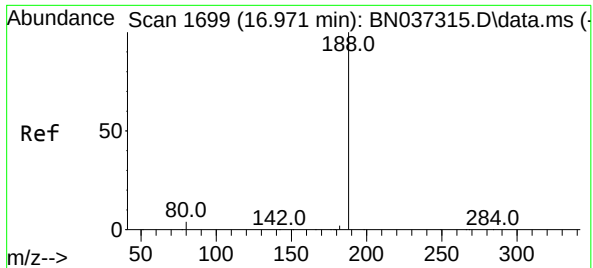
Tgt Ion:	330	Resp:	302
Ion	Ratio	Lower	Upper
330	100		
332	98.7	78.4	117.6
141	36.1	24.4	36.6



#15
2-Fluorobiphenyl
Concen: 0.314 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

Tgt Ion:	172	Resp:	1555
Ion	Ratio	Lower	Upper
172	100		
171	35.8	30.8	46.2
170	24.6	21.9	32.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037333.D

Acq: 19 Jun 2025 03:29

Instrument :

BNA_N

ClientSampleId :

TT149S1-20250613

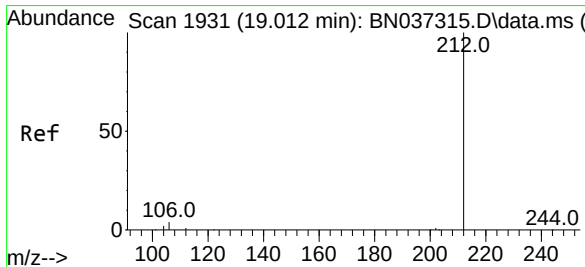
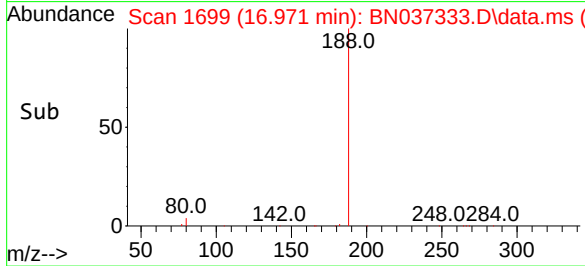
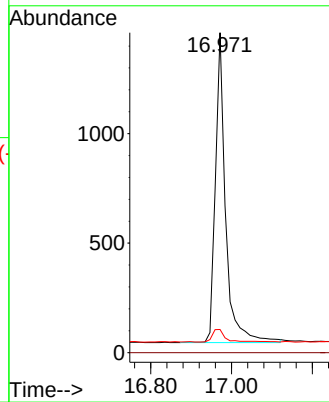
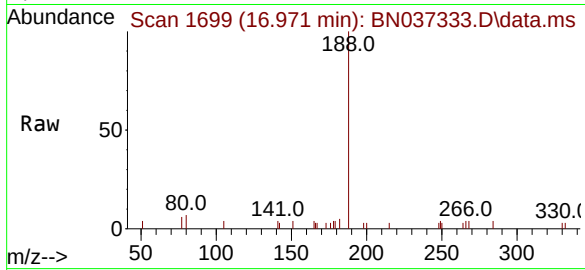
Tgt Ion:188 Resp: 2488

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.3 6.2 9.2



#27

Fluoranthene-d10

Concen: 0.420 ng

RT: 19.008 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037333.D

Acq: 19 Jun 2025 03:29

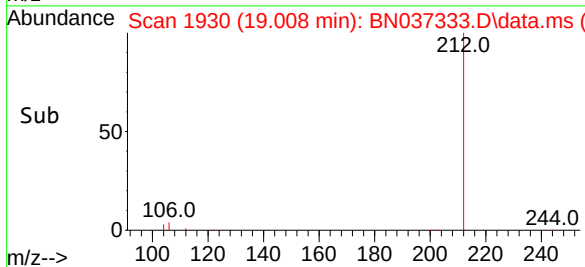
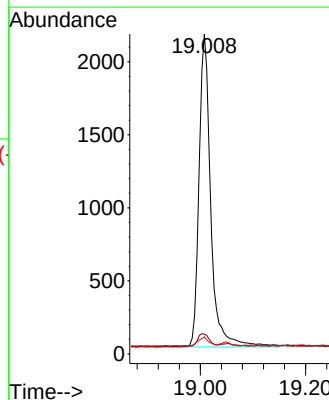
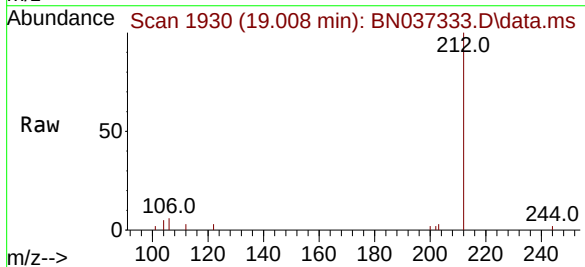
Tgt Ion:212 Resp: 3315

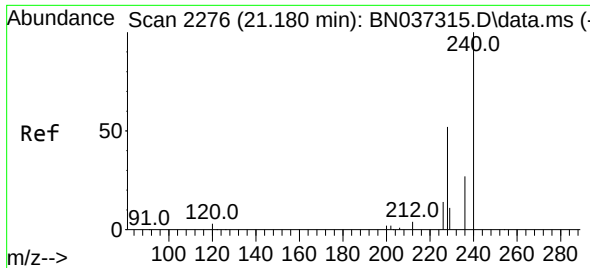
Ion Ratio Lower Upper

212 100

106 4.1 3.0 4.4

104 2.4 2.0 3.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037333.D

Acq: 19 Jun 2025 03:29

Instrument :

BNA_N

ClientSampleId :

TT149S1-20250613

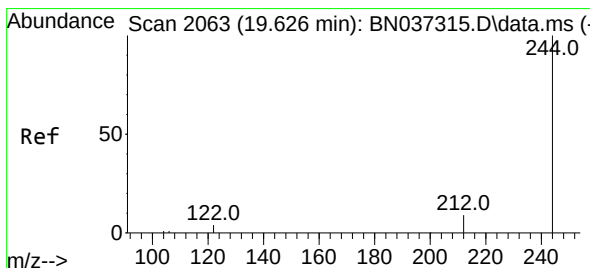
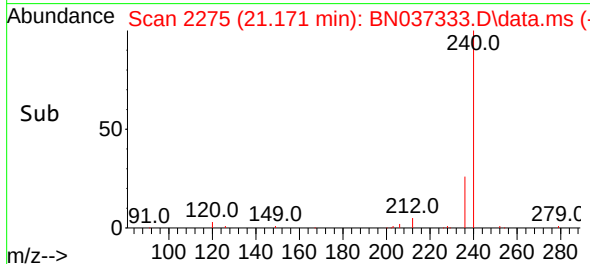
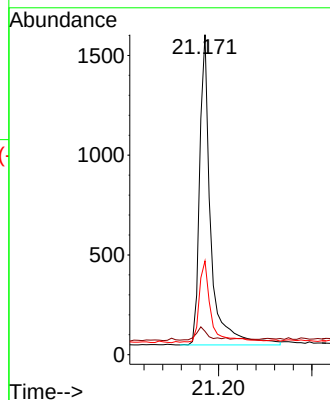
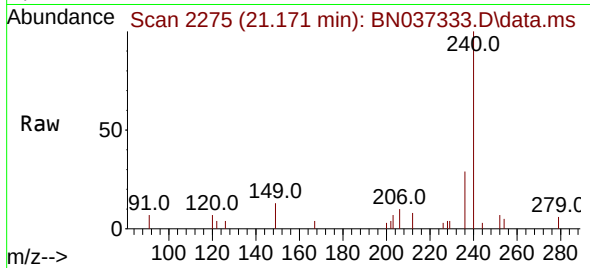
Tgt Ion:240 Resp: 2574

Ion Ratio Lower Upper

240 100

120 7.3 7.5 11.3#

236 29.3 24.9 37.3



#31

Terphenyl-d14

Concen: 0.444 ng

RT: 19.616 min Scan# 2061

Delta R.T. -0.009 min

Lab File: BN037333.D

Acq: 19 Jun 2025 03:29

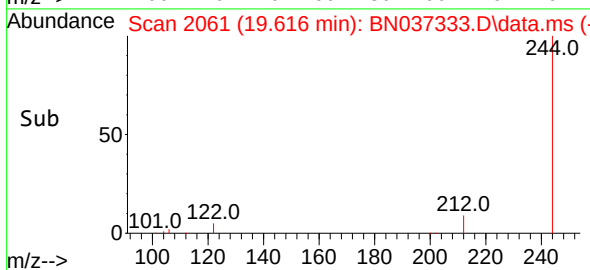
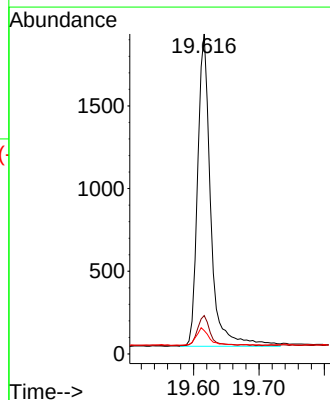
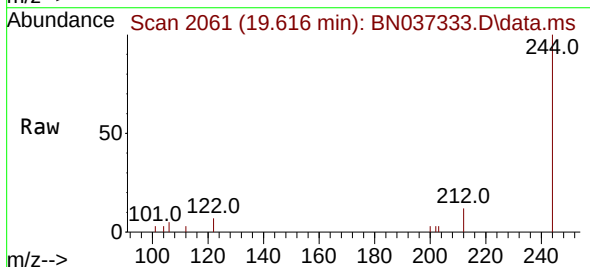
Tgt Ion:244 Resp: 2621

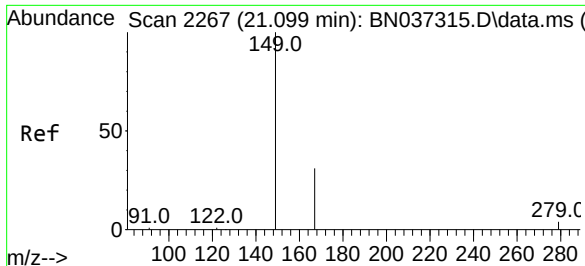
Ion Ratio Lower Upper

244 100

212 12.0 11.1 16.7

122 7.3 7.2 10.8

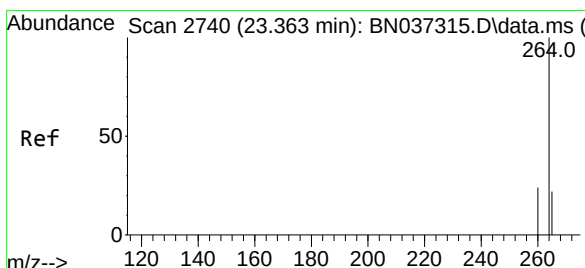
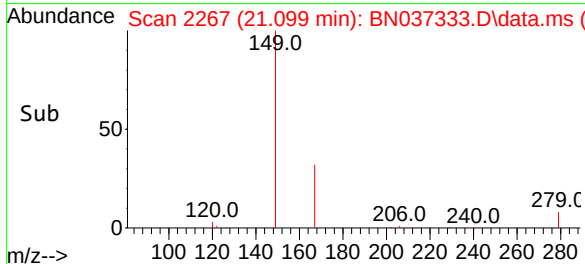
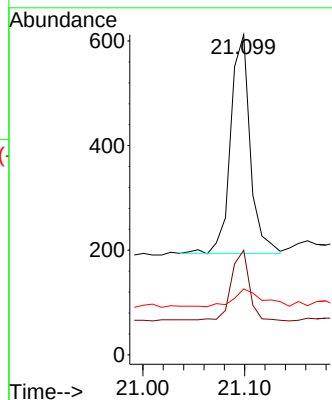
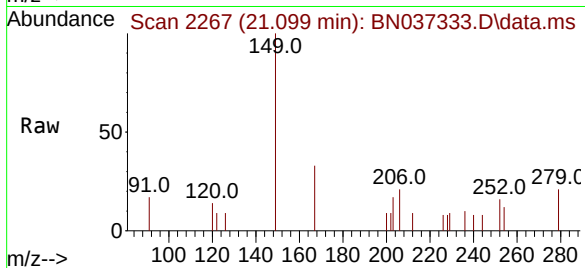




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.164 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.000 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

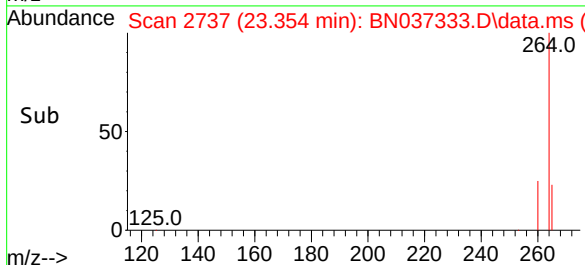
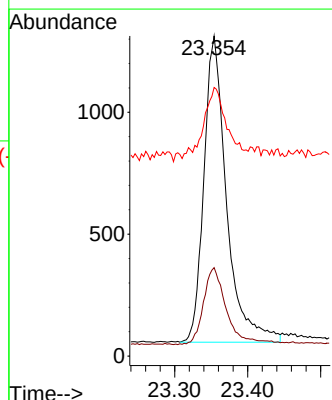
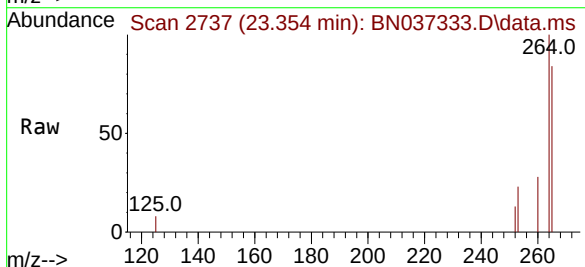
Instrument :
BNA_N
ClientSampleId :
TT149S1-20250613

Tgt Ion:149 Resp: 558
Ion Ratio Lower Upper
149 100
167 29.9 24.6 37.0
279 10.8 6.5 9.7#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2737
Delta R.T. -0.009 min
Lab File: BN037333.D
Acq: 19 Jun 2025 03:29

Tgt Ion:264 Resp: 2711
Ion Ratio Lower Upper
264 100
260 27.6 21.4 32.2
265 83.9 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-10	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
BN037325.D	1	06/17/25 08:55	06/18/25 22:39	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.60	M	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		104%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.44		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	552		7.575			
1146-65-2	Naphthalene-d8	1220		10.351			
15067-26-2	Acenaphthene-d10	954		14.224			
1517-22-2	Phenanthrene-d10	1980		16.971			
1719-03-5	Chrysene-d12	2040		21.171			
1520-96-3	Perylene-d12	2140		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\BN061925\
 Data File : BN037325.D
 Acq On : 18 Jun 2025 22:39
 Operator : RC/JU
 Sample : Q2329-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/19/2025
 Supervised By :mohammad ahmed 06/23/2025

Quant Time: Jun 19 02:40:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	552	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1224	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	954	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	1976	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2039	0.400	ng	0.00
35) Perylene-d12	23.357	264	2136	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	175	0.174	ng	0.00
5) Phenol-d6	6.766	99	89	0.090	ng	0.00
8) Nitrobenzene-d5	8.728	82	328	0.322	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	825	0.415	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	269	0.382	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1653	0.395	ng	0.00
27) Fluoranthene-d10	19.008	212	2771	0.442	ng	0.00
31) Terphenyl-d14	19.616	244	2279	0.487	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	760	1.542	ng	# 82
9) Naphthalene	10.404	128	97	0.031	ng	# 14
12) 2-Methylnaphthalene	12.031	142	67	0.030	ng	# 82
17) Acenaphthene	14.288	154	76	0.029	ng	94
18) Fluorene	15.282	166	271	0.072	ng	97
25) Phenanthrene	17.009	178	2246	0.404	ng	99
26) Anthracene	17.108	178	247m	0.047	ng	
28) Fluoranthene	19.040	202	1694	0.219	ng	# 95
30) Pyrene	19.402	202	926	0.119	ng	# 94
32) Benzo(a)anthracene	21.153	228	158	0.024	ng	# 41
33) Chrysene	21.206	228	214	0.026	ng	# 57
34) Bis(2-ethylhexyl)phtha...	21.099	149	438	0.163	ng	96

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

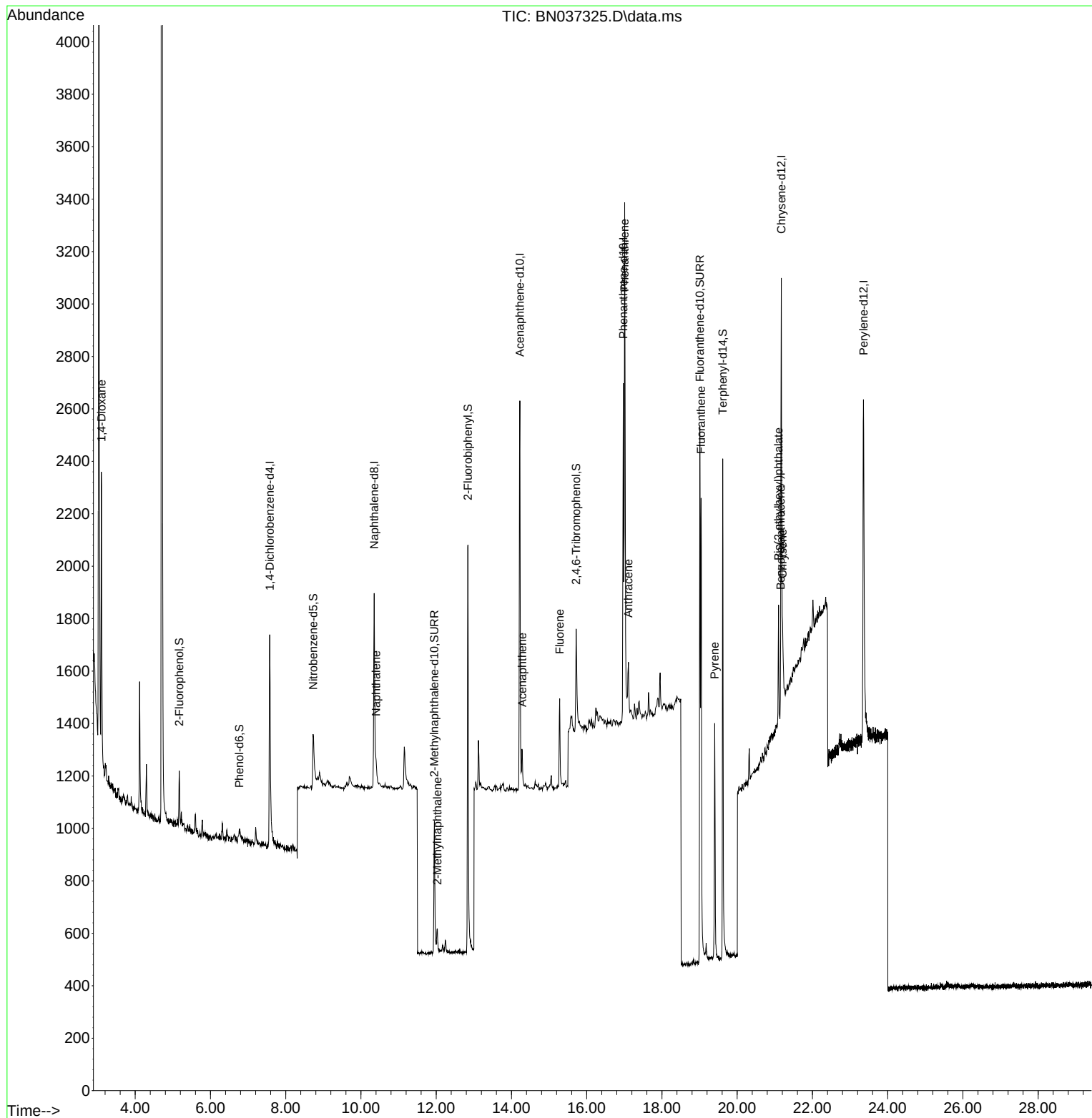
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037325.D
Acq On : 18 Jun 2025 22:39
Operator : RC/JU
Sample : Q2329-10
Misc :
ALS Vial : 14 Sample Multiplier: 1

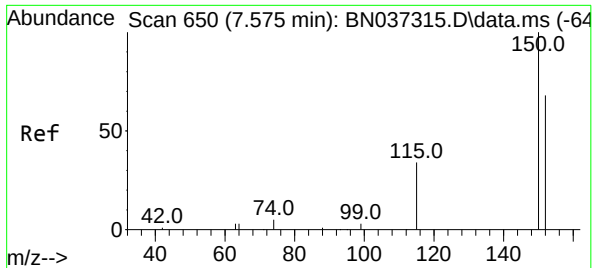
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

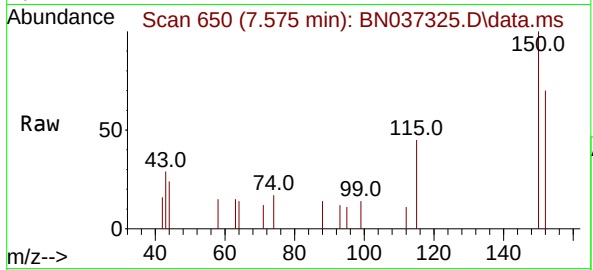
Quant Time: Jun 19 02:40:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

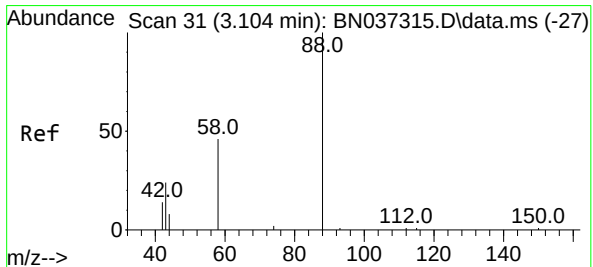
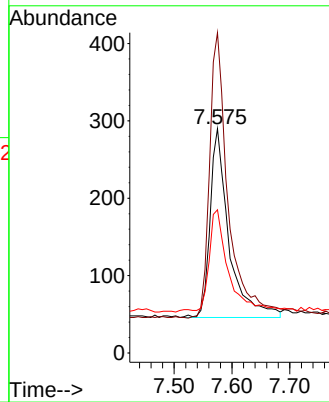
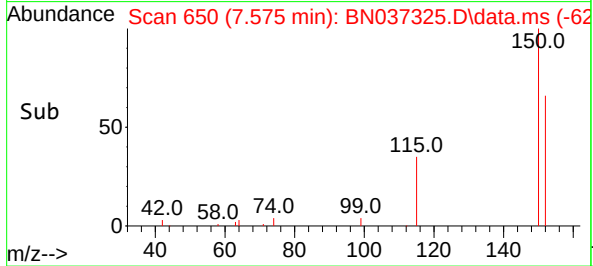
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



Tgt Ion: 152 Resp: 552
Ion Ratio Lower Upper
152 100
150 142.8 112.7 169.1
115 63.8 45.9 68.9

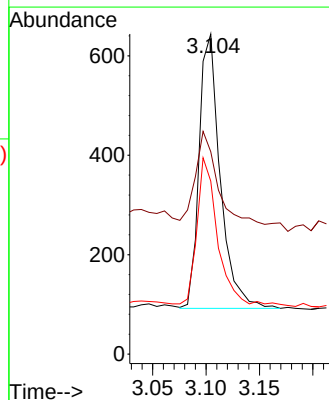
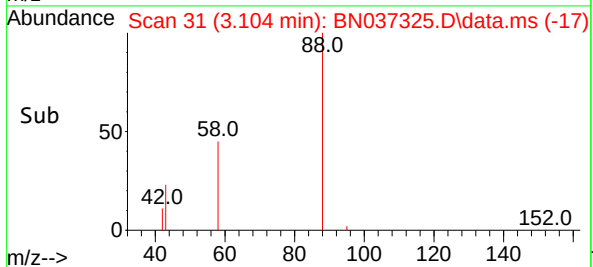
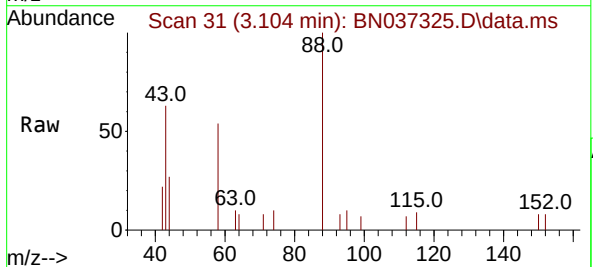
Manual Integrations
APPROVED

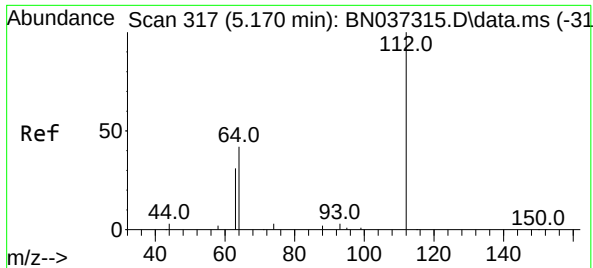
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#2
1,4-Dioxane
Concen: 1.542 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion: 88 Resp: 760
Ion Ratio Lower Upper
88 100
43 45.4 21.0 31.6#
58 52.5 38.0 57.0





#4

2-Fluorophenol

Concen: 0.174 ng

RT: 5.170 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613

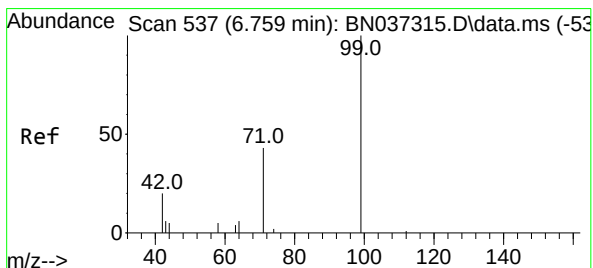
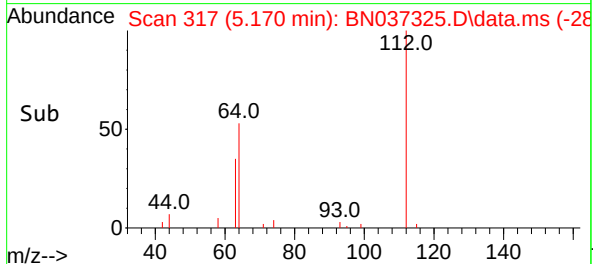
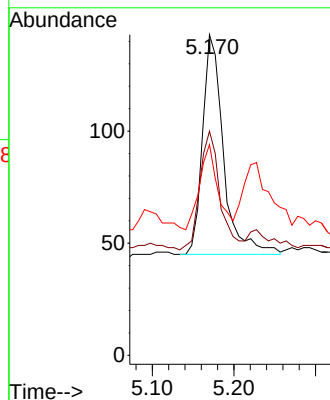
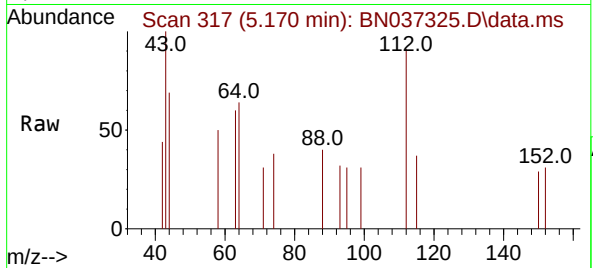
Tgt Ion:	112	Resp:	179
Ion	Ratio	Lower	Upper
112	100		
64	51.4	38.7	58.1
63	34.9	26.4	39.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#5

Phenol-d6

Concen: 0.090 ng

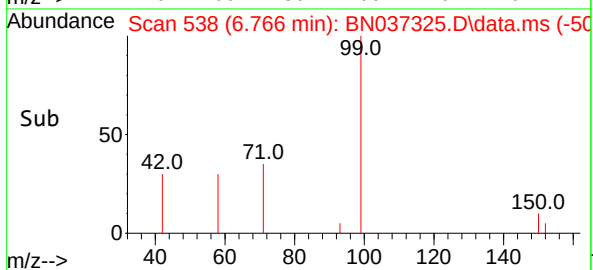
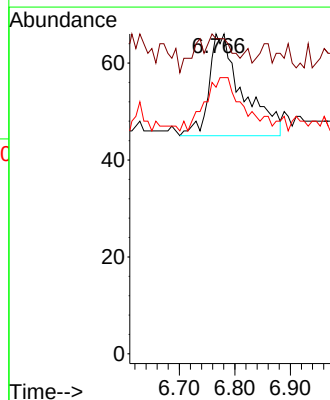
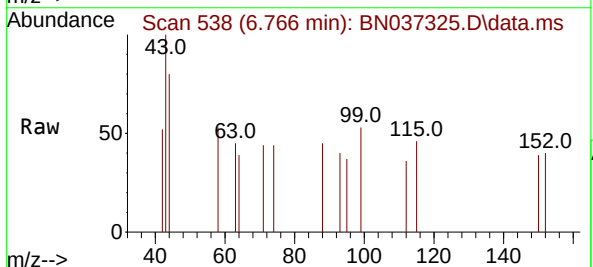
RT: 6.766 min Scan# 538

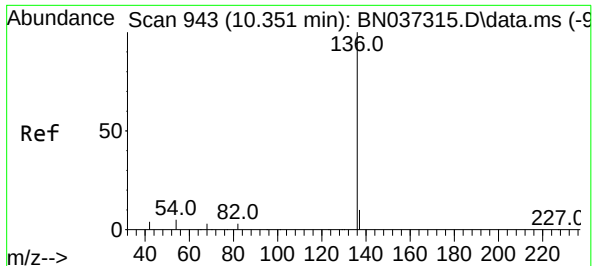
Delta R.T. 0.007 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

Tgt Ion:	99	Resp:	89
Ion	Ratio	Lower	Upper
99	100		
42	23.6	19.8	29.8
71	55.1	42.6	64.0





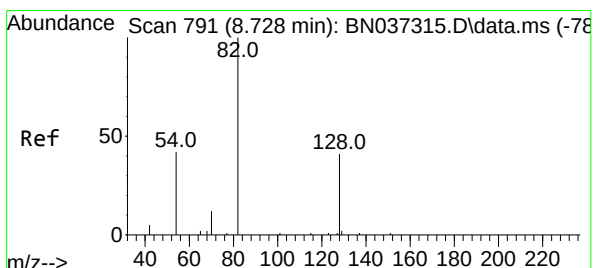
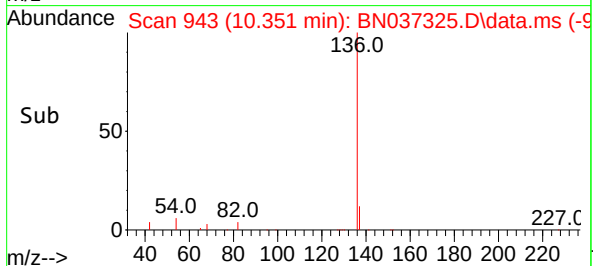
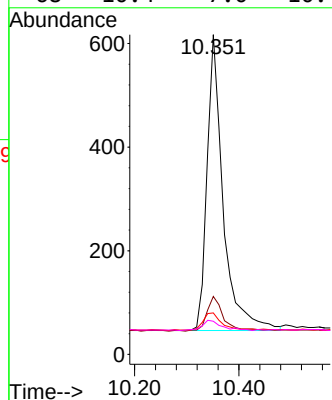
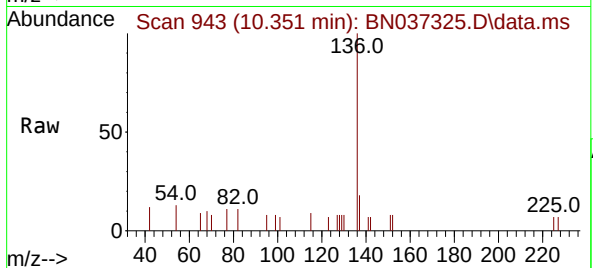
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion:	136	Resp:	1224
Ion	Ratio	Lower	Upper
136	100		
137	18.2	12.2	18.2
54	13.0	8.8	13.2
68	10.4	7.0	10.4

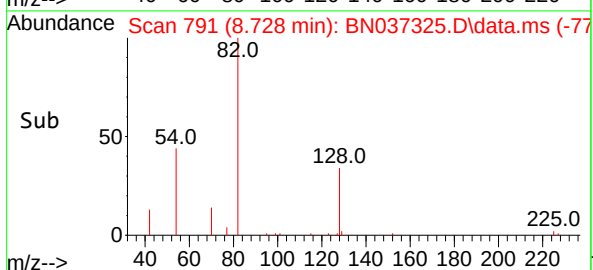
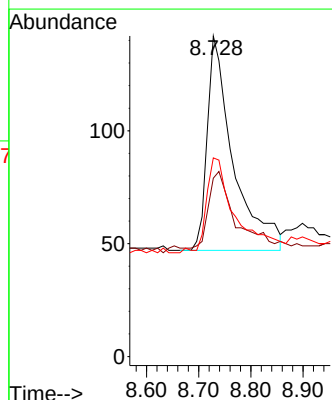
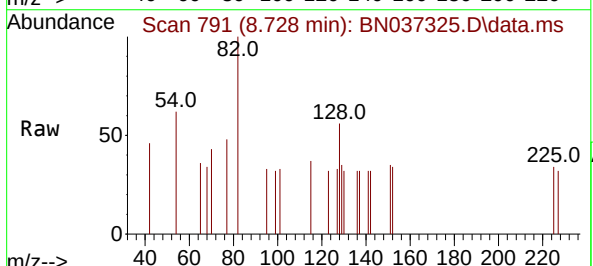
Manual Integrations APPROVED

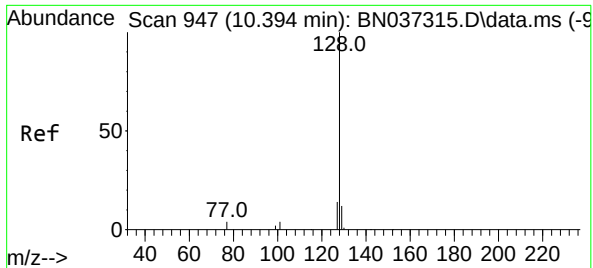
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:	82	Resp:	328
Ion	Ratio	Lower	Upper
82	100		
128	55.6	42.5	63.7
54	62.0	43.2	64.8





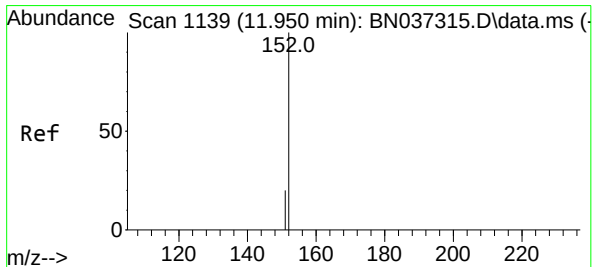
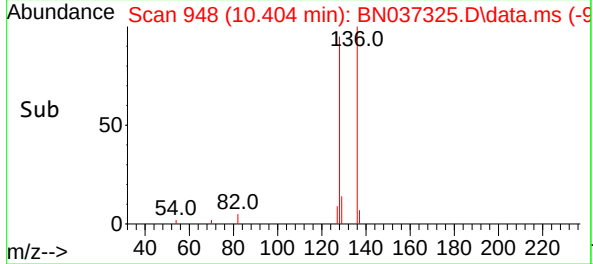
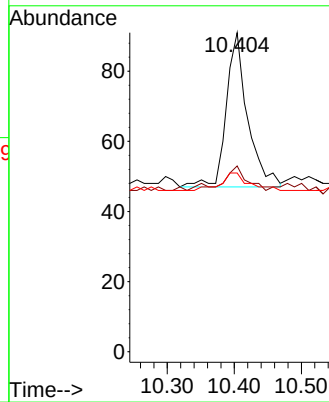
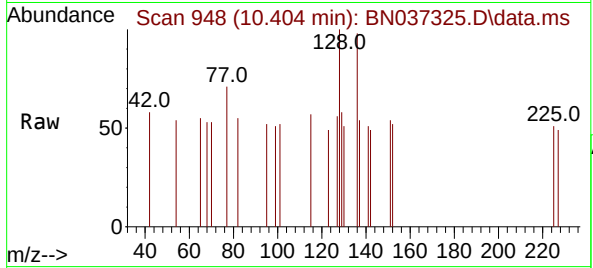
#9
Naphthalene
Concen: 0.031 ng
RT: 10.404 min Scan# 947
Delta R.T. 0.011 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

Tgt Ion:128 Resp: 97
Ion Ratio Lower Upper
128 100
129 58.2 14.0 21.0
127 56.0 15.8 23.8

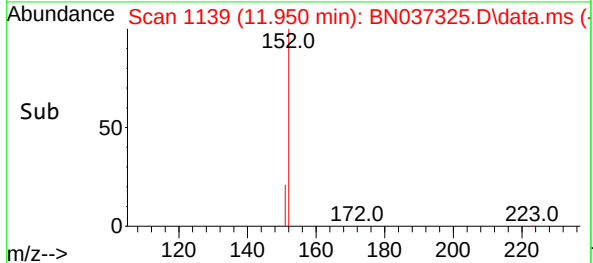
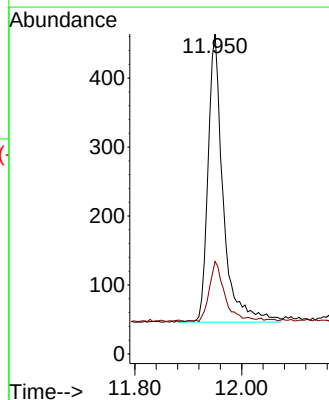
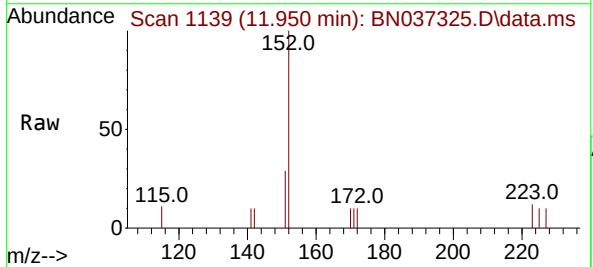
Manual Integrations
APPROVED

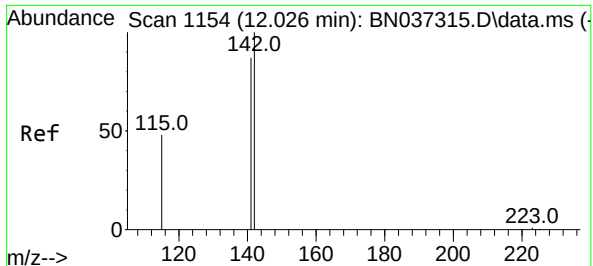
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#11
2-Methylnaphthalene-d10
Concen: 0.415 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:152 Resp: 825
Ion Ratio Lower Upper
152 100
151 20.7 17.4 26.0





#12

2-Methylnaphthalene

Concen: 0.030 ng

RT: 12.031 min Scan# 1155

Delta R.T. 0.005 min

Lab File: BN037325.D

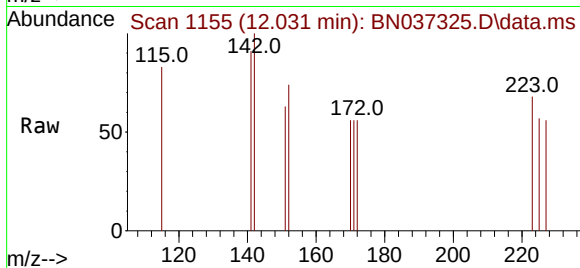
Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613



Tgt Ion:142 Resp: 61

Ion Ratio Lower Upper

142 100

141 91.4 70.2 105.2

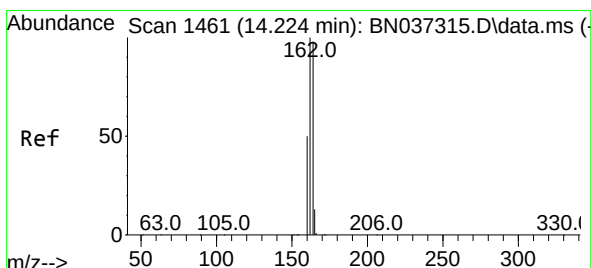
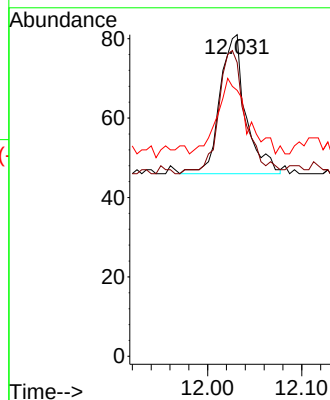
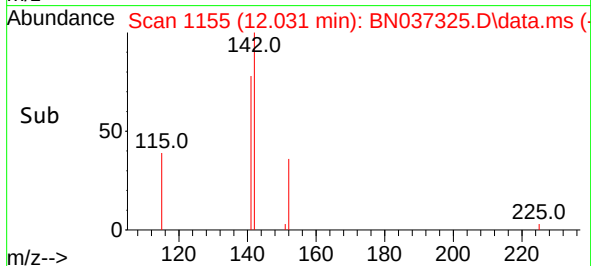
115 82.7 43.0 64.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. -0.000 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

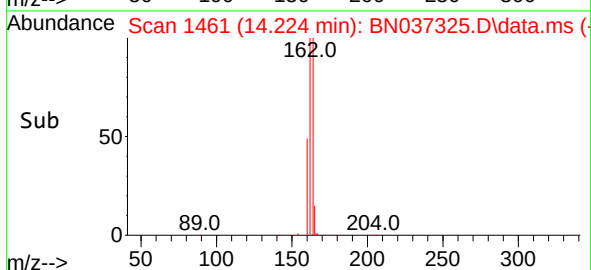
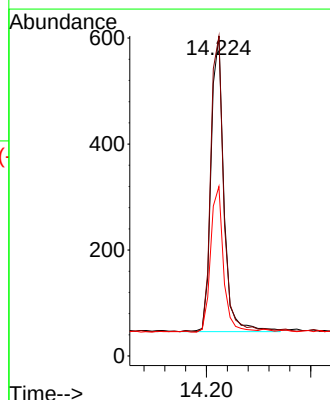
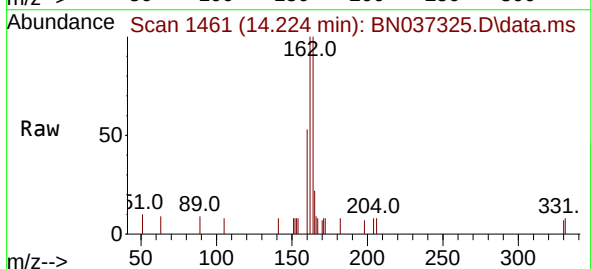
Tgt Ion:164 Resp: 954

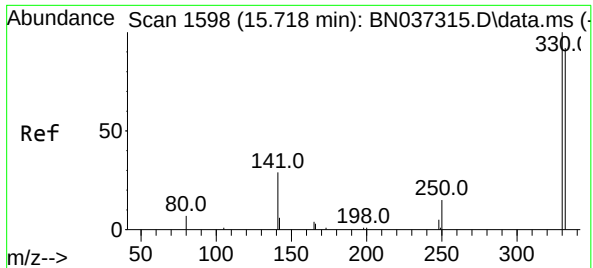
Ion Ratio Lower Upper

164 100

162 99.8 81.5 122.3

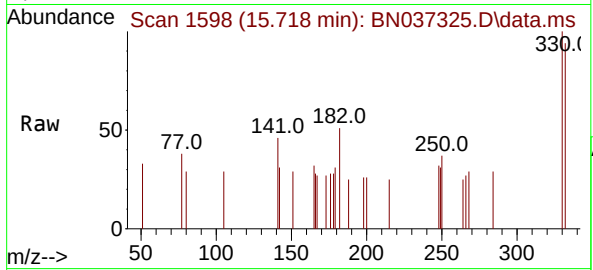
160 53.0 43.0 64.4





#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

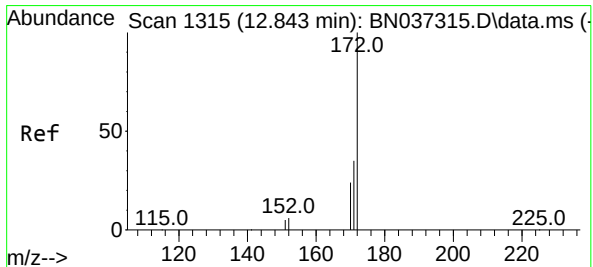
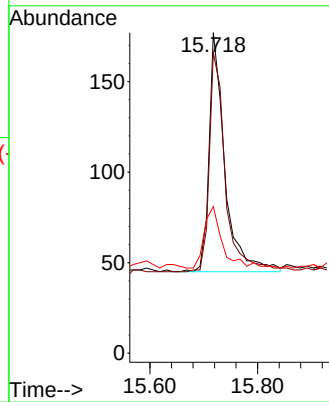
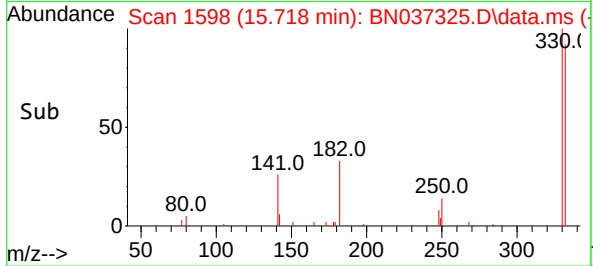
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



Tgt Ion:330 Resp: 269
Ion Ratio Lower Upper
330 100
332 93.3 78.4 117.6
141 29.7 24.4 36.6

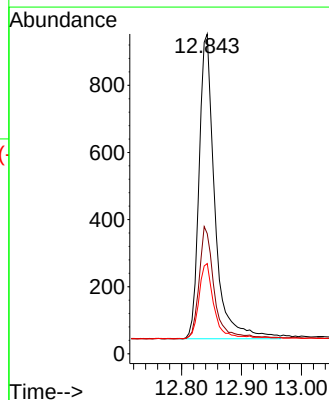
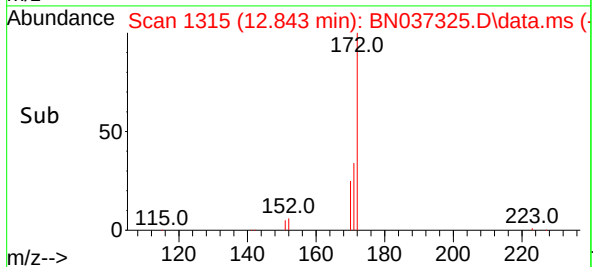
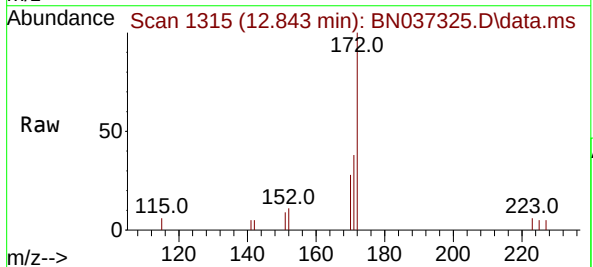
Manual Integrations
APPROVED

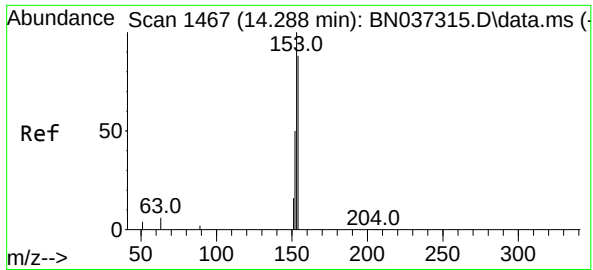
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#15
2-Fluorobiphenyl
Concen: 0.395 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

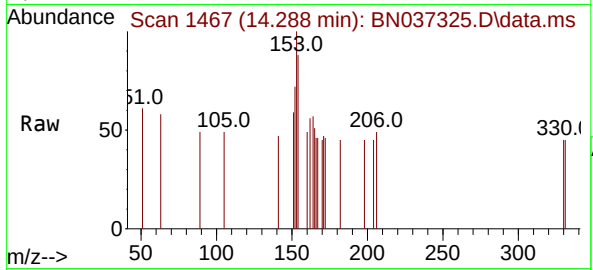
Tgt Ion:172 Resp: 1653
Ion Ratio Lower Upper
172 100
171 37.6 30.8 46.2
170 28.2 21.9 32.9





#17
Acenaphthene
Concen: 0.029 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

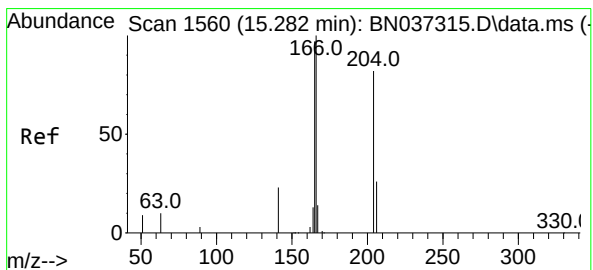
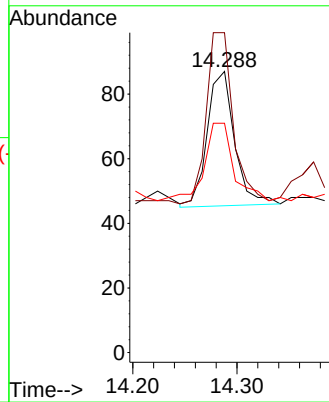
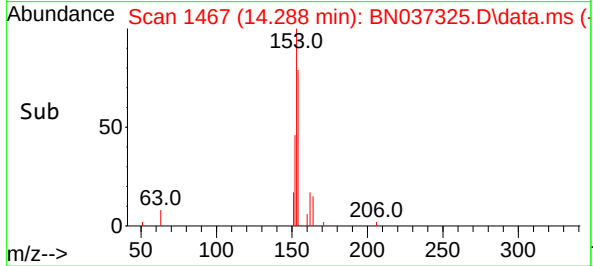
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



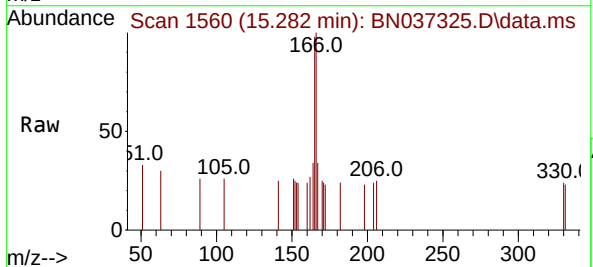
Tgt Ion:154 Resp: 70
Ion Ratio Lower Upper
154 100
153 126.3 93.1 139.7
152 61.8 48.6 73.0

Manual Integrations
APPROVED

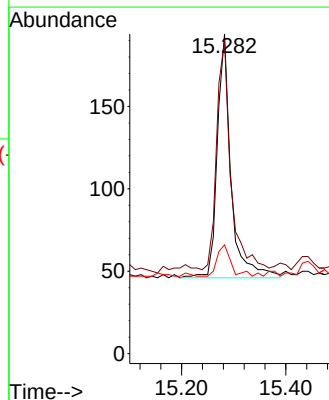
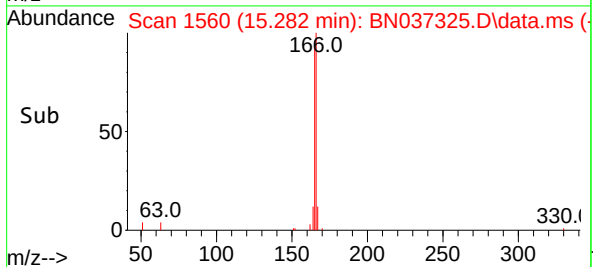
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

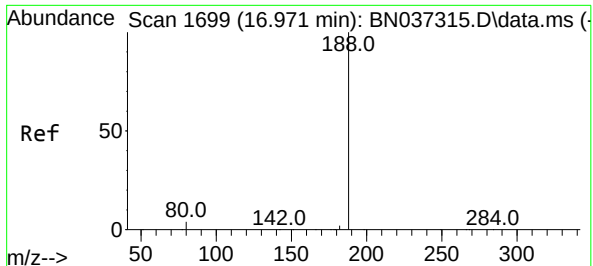


#18
Fluorene
Concen: 0.072 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39



Tgt Ion:166 Resp: 271
Ion Ratio Lower Upper
166 100
165 97.0 79.5 119.3
167 11.8 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: BN037325.D

Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613

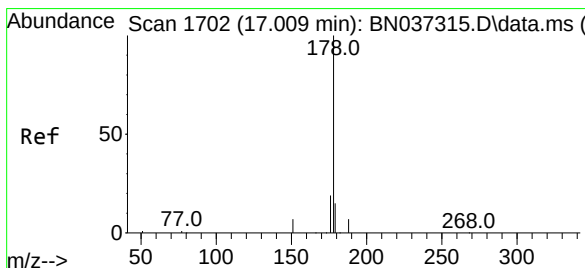
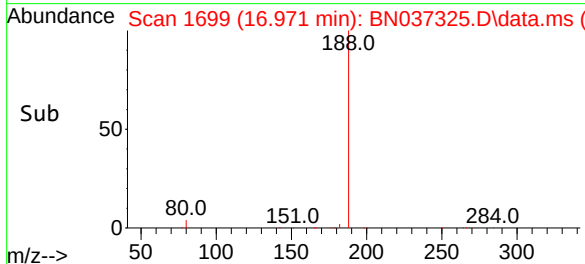
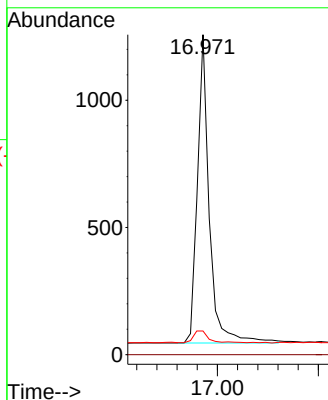
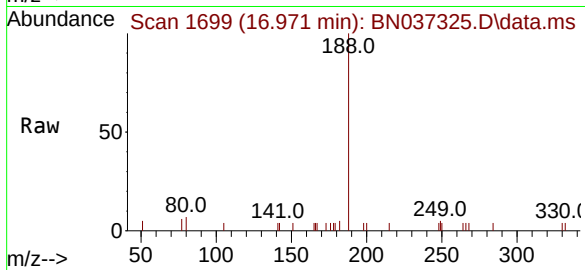
Tgt Ion:	188	Resp:	1970
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.4	6.2	9.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#25

Phenanthrene

Concen: 0.404 ng

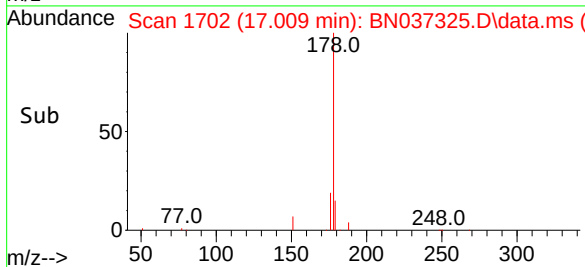
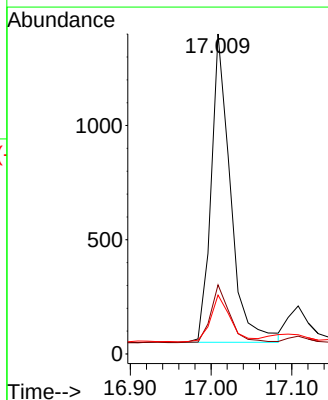
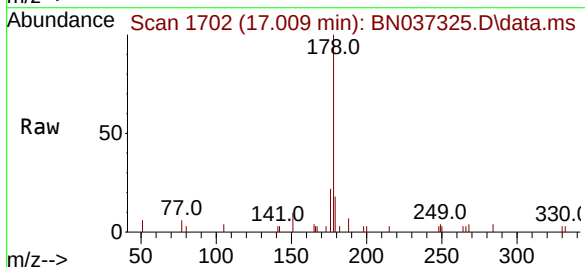
RT: 17.009 min Scan# 1702

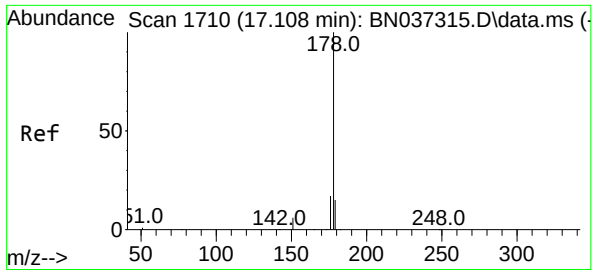
Delta R.T. -0.000 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

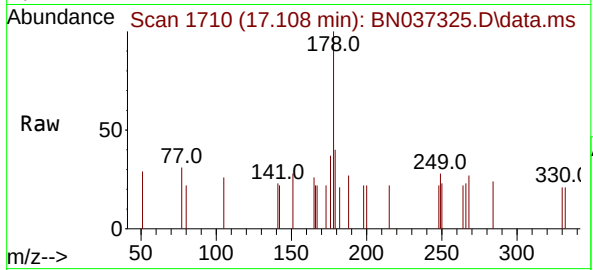
Tgt Ion:	178	Resp:	2246
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.2	22.8
179	15.7	12.9	19.3





#26
Anthracene
Concen: 0.047 ng m
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

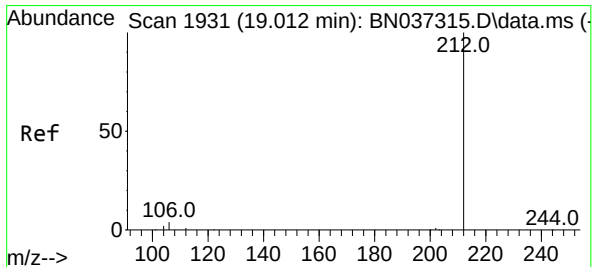
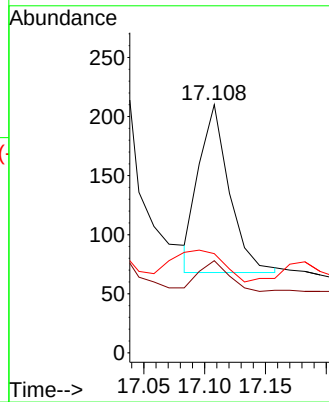
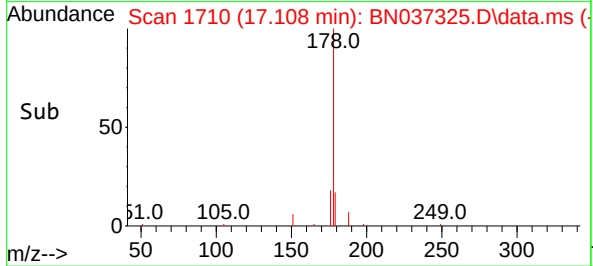
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



Tgt Ion:178 Resp: 247
Ion Ratio Lower Upper
178 100
176 165.6 14.7 22.1
179 142.5 13.0 19.6

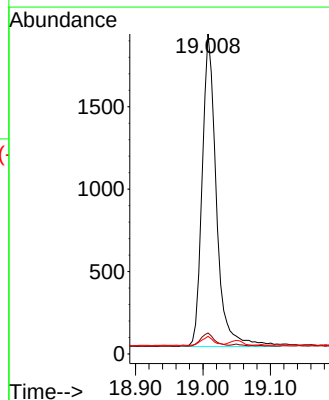
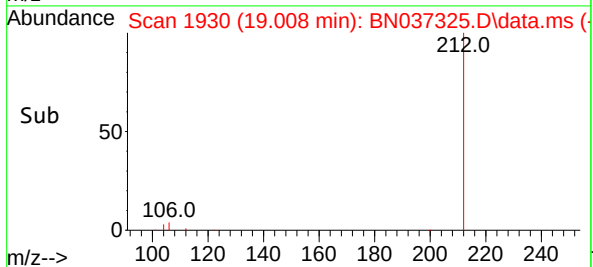
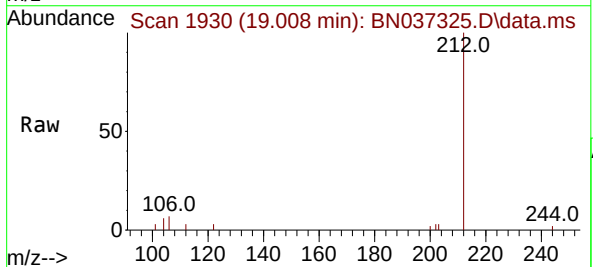
Manual Integrations
APPROVED

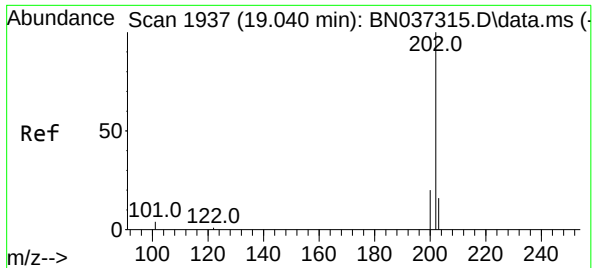
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#27
Fluoranthene-d10
Concen: 0.442 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

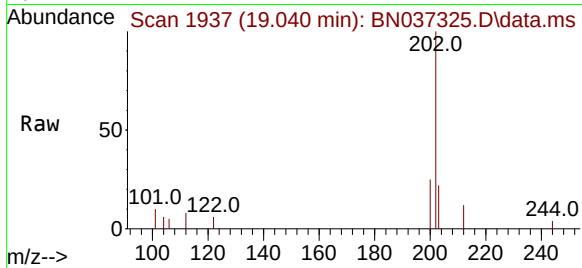
Tgt Ion:212 Resp: 2771
Ion Ratio Lower Upper
212 100
106 4.0 3.0 4.4
104 2.4 2.0 3.0





#28
Fluoranthene
Concen: 0.219 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

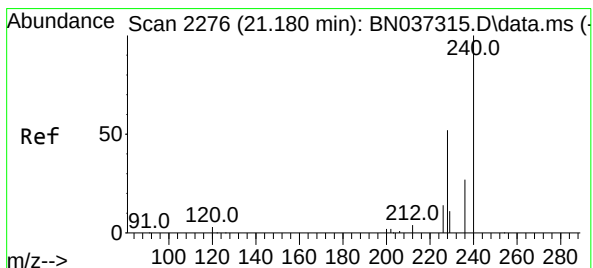
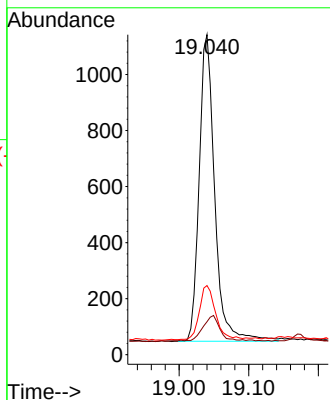
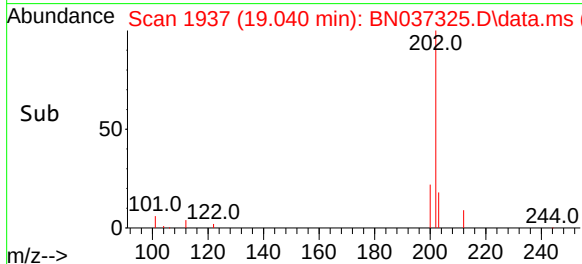
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



Tgt Ion:202 Resp: 1694
Ion Ratio Lower Upper
202 100
101 8.6 3.0 4.6
203 18.2 13.7 20.5

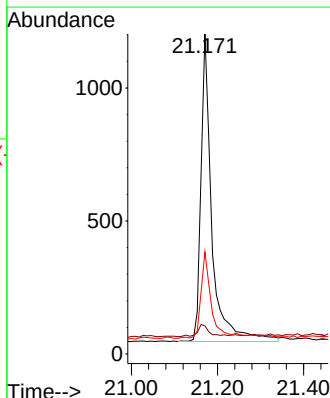
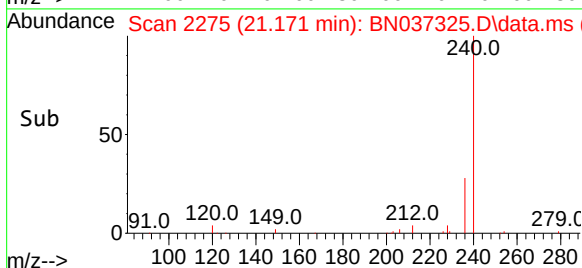
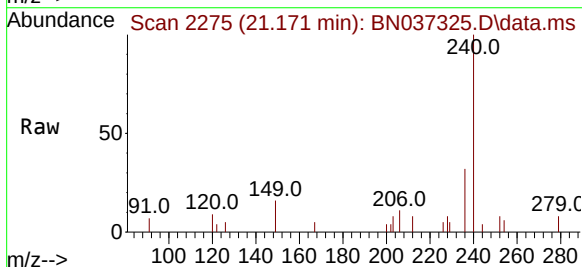
Manual Integrations
APPROVED

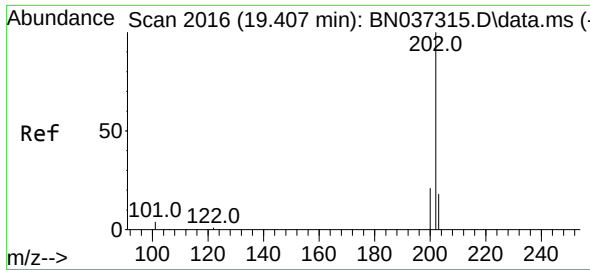
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

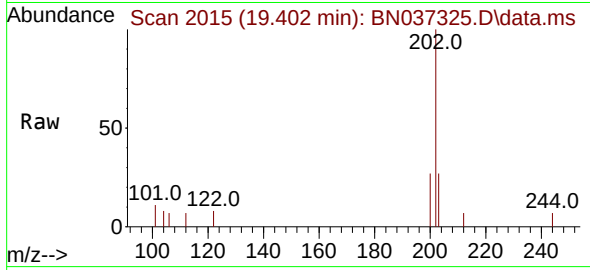
Tgt Ion:240 Resp: 2039
Ion Ratio Lower Upper
240 100
120 8.8 7.5 11.3
236 31.9 24.9 37.3





#30
Pyrene
Concen: 0.119 ng
RT: 19.402 min Scan# 2016
Delta R.T. -0.005 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

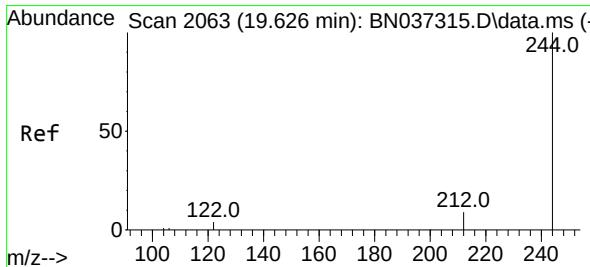
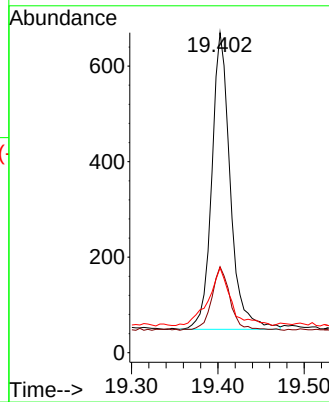
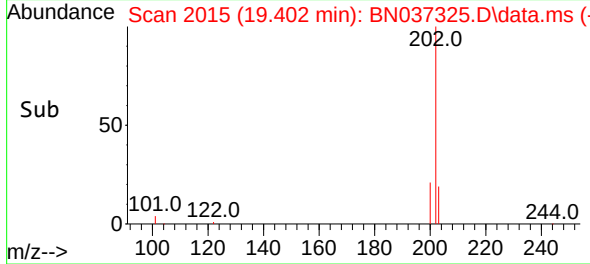
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



Tgt Ion:202 Resp: 920
Ion Ratio Lower Upper
202 100
200 21.4 16.8 25.2
203 23.2 14.5 21.7

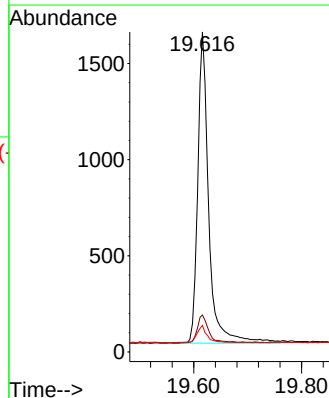
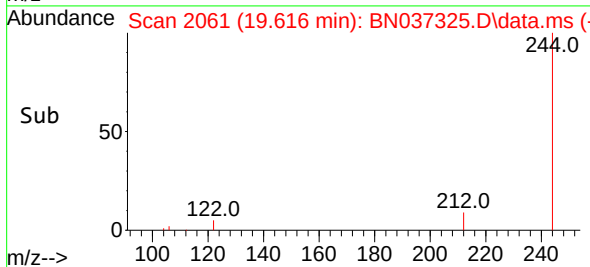
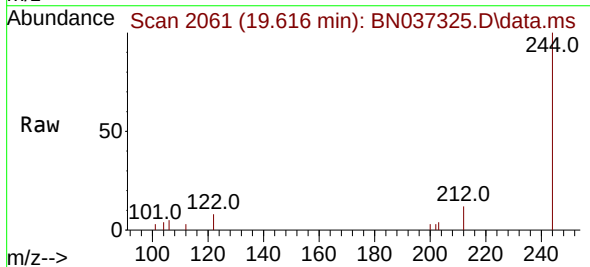
Manual Integrations
APPROVED

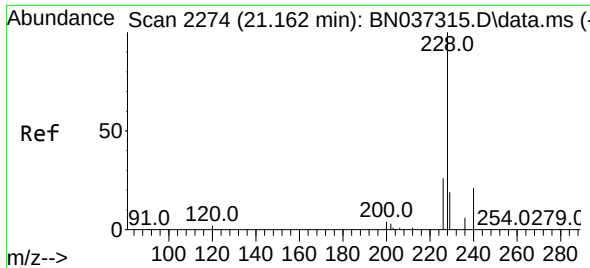
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

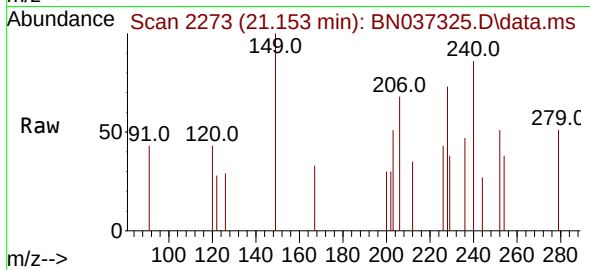
Tgt Ion:244 Resp: 2279
Ion Ratio Lower Upper
244 100
212 11.5 11.1 16.7
122 8.3 7.2 10.8





#32
Benzo(a)anthracene
Concen: 0.024 ng
RT: 21.153 min Scan# 21153
Delta R.T. -0.009 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

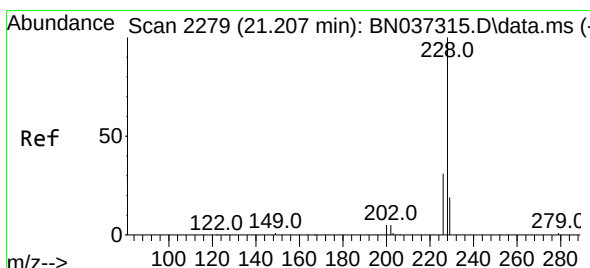
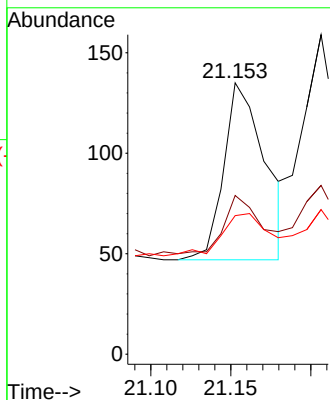
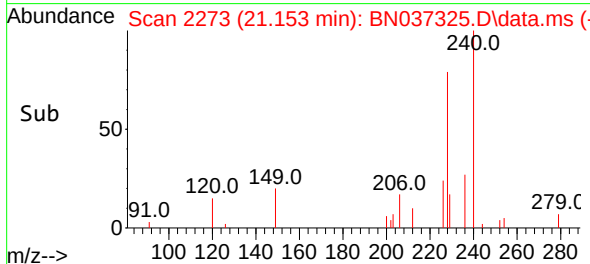
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



Tgt Ion:228 Resp: 158
Ion Ratio Lower Upper
228 100
226 58.5 23.0 34.4#
229 51.1 17.4 26.0#

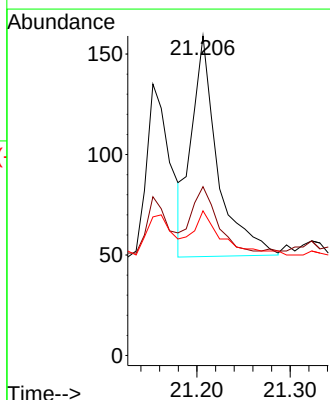
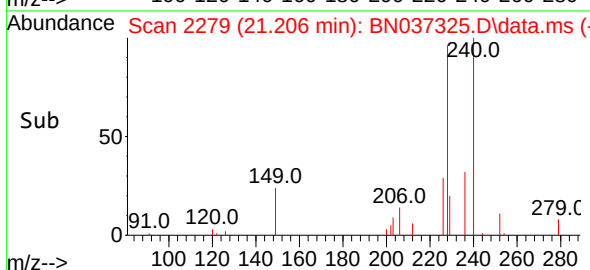
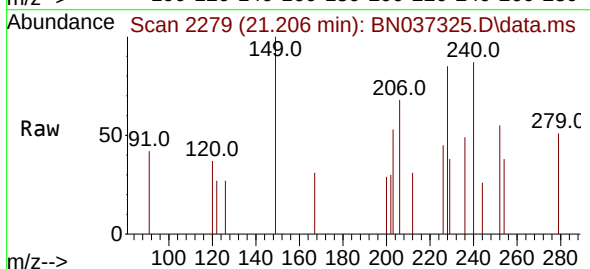
Manual Integrations
APPROVED

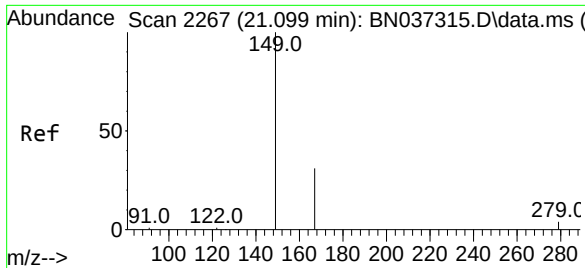
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#33
Chrysene
Concen: 0.026 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

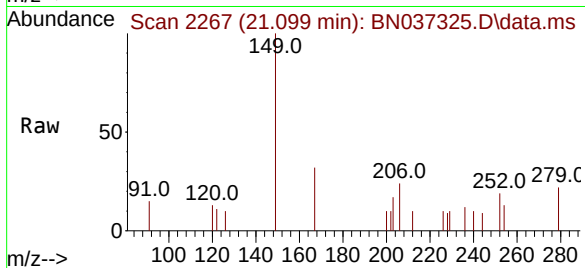
Tgt Ion:228 Resp: 214
Ion Ratio Lower Upper
228 100
226 52.8 25.4 38.2#
229 45.3 17.3 25.9#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.163 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

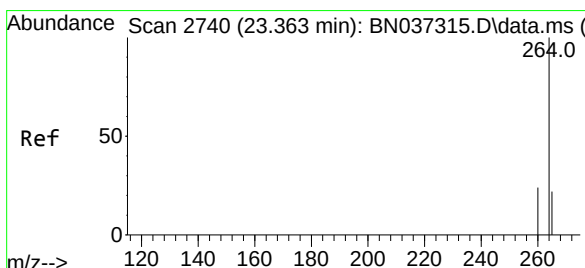
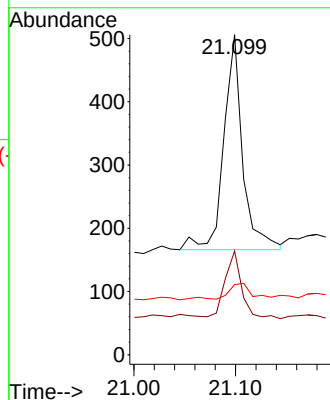
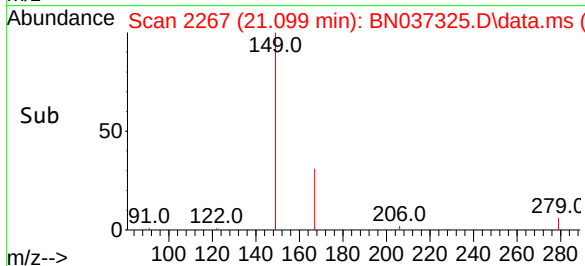
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613



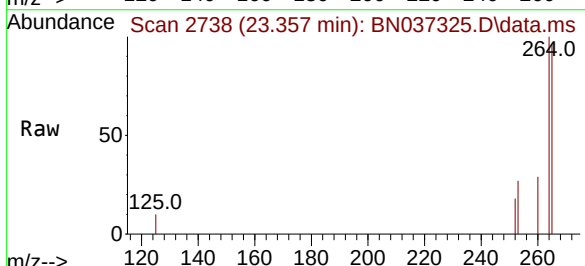
Tgt Ion:149 Resp: 438
Ion Ratio Lower Upper
149 100
167 28.1 24.6 37.0
279 8.2 6.5 9.7

Manual Integrations
APPROVED

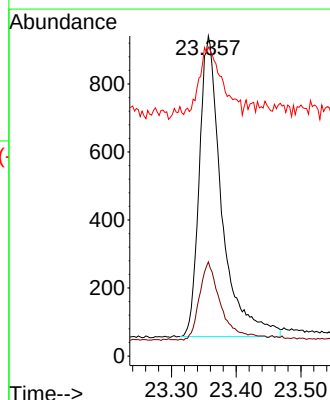
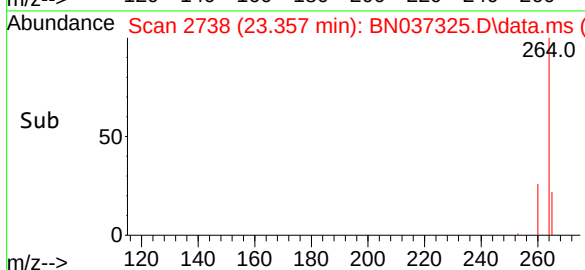
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. -0.006 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39



Tgt Ion:264 Resp: 2136
Ion Ratio Lower Upper
264 100
260 29.4 21.4 32.2
265 96.5 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	DUP04-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-14	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	950 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037334.D	1	06/17/25 08:55	06/19/25 04:05	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.27		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		104%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.31		55 - 111		76%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	756		7.568			
1146-65-2	Naphthalene-d8	1700		10.351			
15067-26-2	Acenaphthene-d10	1190		14.213			
1517-22-2	Phenanthrene-d10	2600		16.971			
1719-03-5	Chrysene-d12	2690		21.171			
1520-96-3	Perylene-d12	2780		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\BN061925\
Data File : BN037334.D
Acq On : 19 Jun 2025 04:05
Operator : RC/JU
Sample : Q2329-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

Quant Time: Jun 19 06:27:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

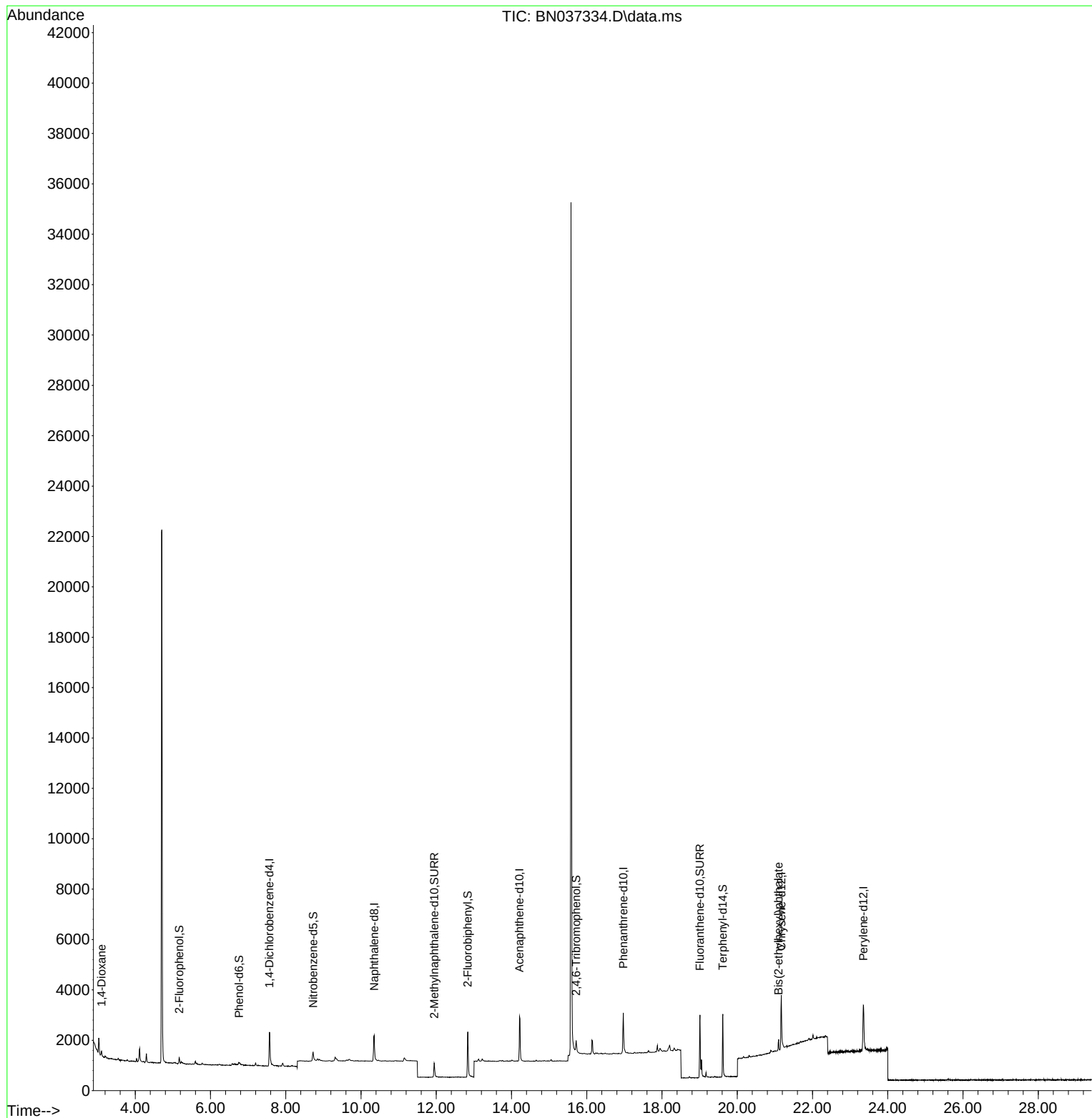
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	756	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1697	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	1190	0.400	ng	-0.01
19) Phenanthrene-d10	16.971	188	2601	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2687	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	2780	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	199	0.145	ng	0.00
5) Phenol-d6	6.759	99	120	0.089	ng	0.00
8) Nitrobenzene-d5	8.728	82	432	0.306	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	933	0.338	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	299	0.341	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	1807	0.347	ng	0.00
27) Fluoranthene-d10	19.008	212	3435	0.417	ng	0.00
31) Terphenyl-d14	19.616	244	2907	0.471	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	175	0.259	ng	# 37
34) Bis(2-ethylhexyl)phtha...	21.099	149	400	0.113	ng	# 98

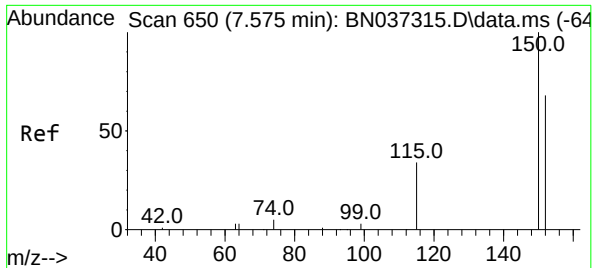
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037334.D
Acq On : 19 Jun 2025 04:05
Operator : RC/JU
Sample : Q2329-14
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

Quant Time: Jun 19 06:27:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

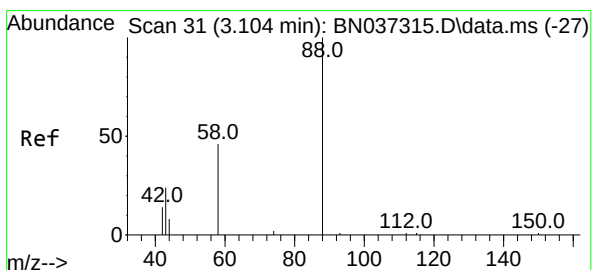
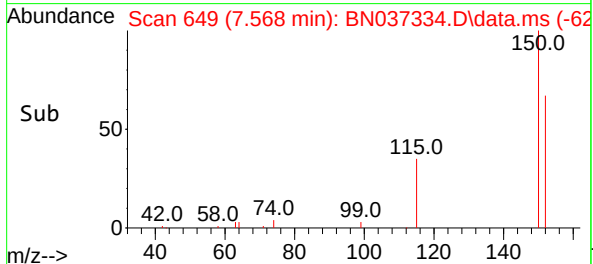
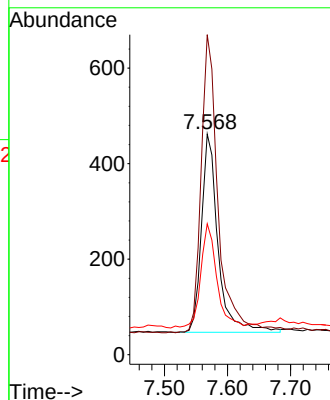
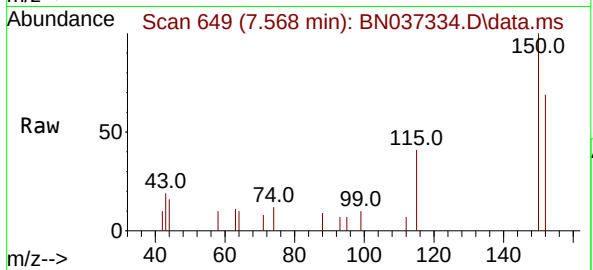




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

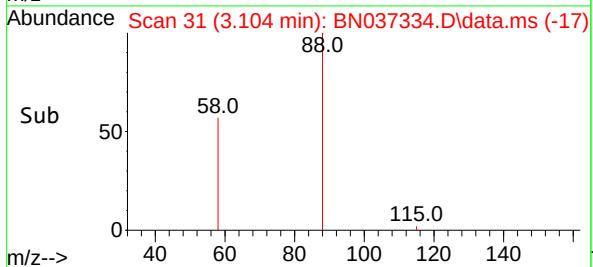
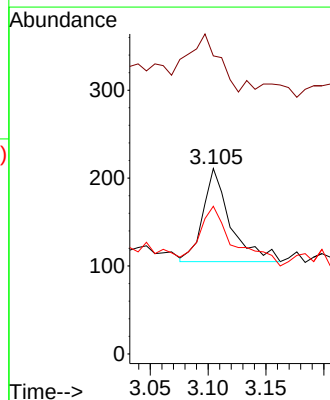
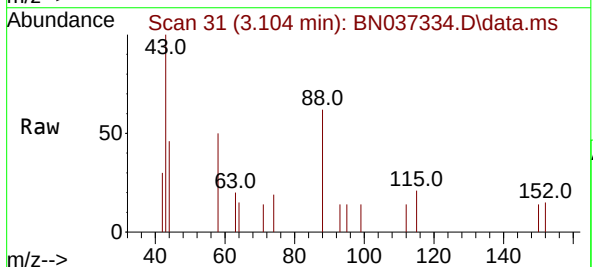
Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

Tgt Ion:152 Resp: 756
Ion Ratio Lower Upper
152 100
150 145.0 112.7 169.1
115 59.3 45.9 68.9

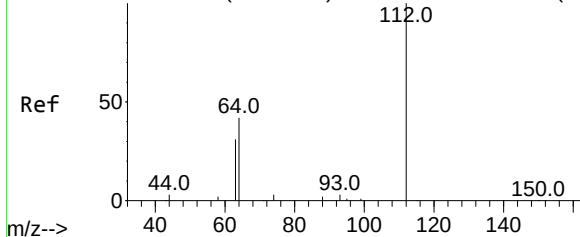


#2
1,4-Dioxane
Concen: 0.259 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

Tgt Ion: 88 Resp: 175
Ion Ratio Lower Upper
88 100
43 71.4 21.0 31.6#
58 80.6 38.0 57.0#



Abundance Scan 317 (5.170 min): BN037315.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.145 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037334.D

Acq: 19 Jun 2025 04:05

Instrument :

BNA_N

ClientSampleId :

DUP04-20250613

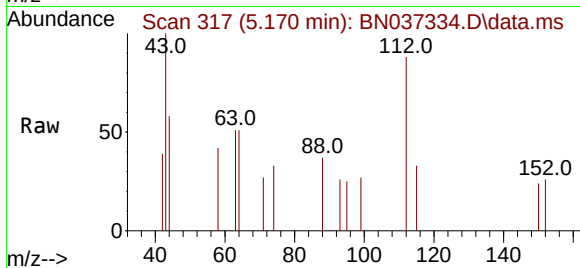
Tgt Ion:112 Resp: 199

Ion Ratio Lower Upper

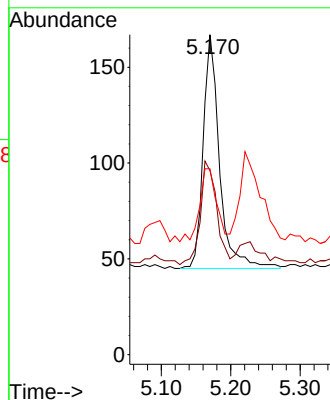
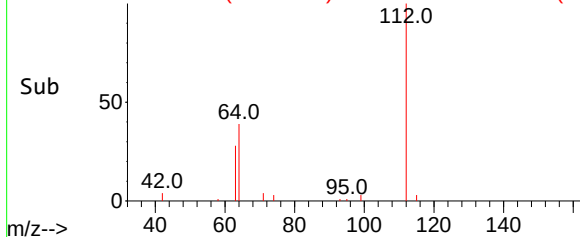
112 100

64 44.2 38.7 58.1

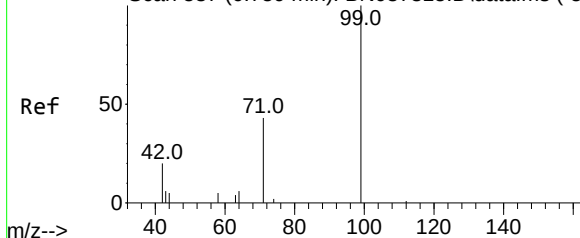
63 35.2 26.4 39.6



Abundance Scan 317 (5.170 min): BN037334.D\data.ms (-28



Abundance Scan 537 (6.759 min): BN037315.D\data.ms (-53



#5

Phenol-d6

Concen: 0.089 ng

RT: 6.759 min Scan# 537

Delta R.T. 0.000 min

Lab File: BN037334.D

Acq: 19 Jun 2025 04:05

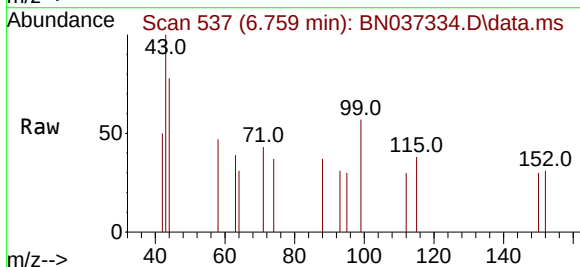
Tgt Ion: 99 Resp: 120

Ion Ratio Lower Upper

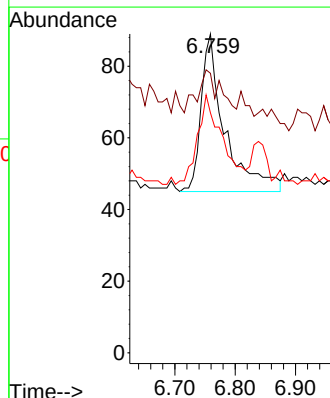
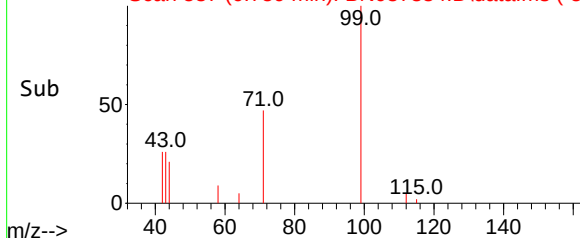
99 100

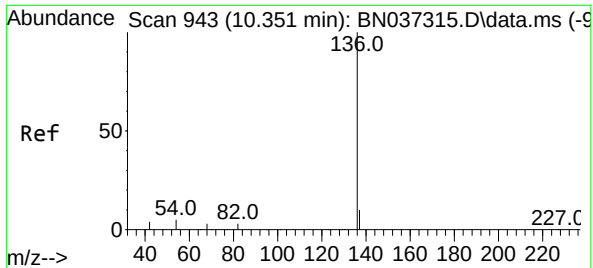
42 25.0 19.8 29.8

71 59.2 42.6 64.0



Abundance Scan 537 (6.759 min): BN037334.D\data.ms (-50

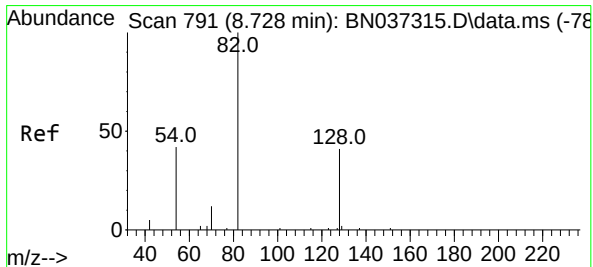
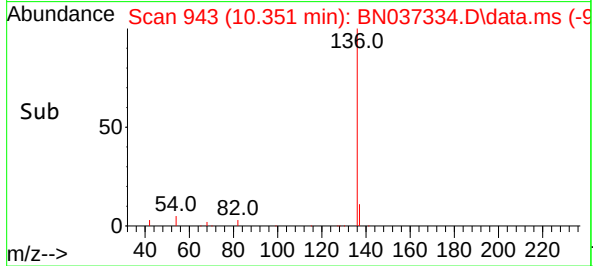
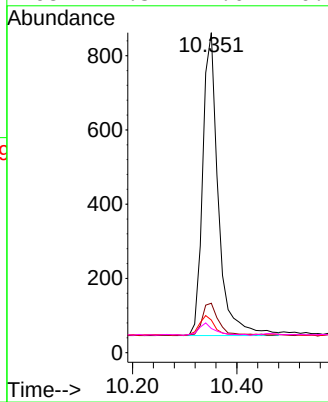
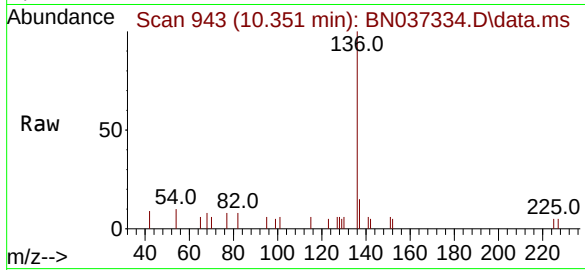




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.000 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

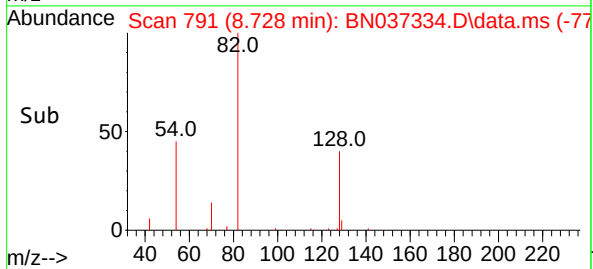
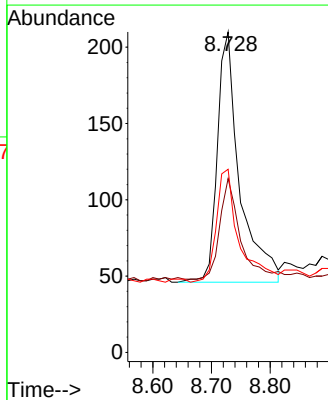
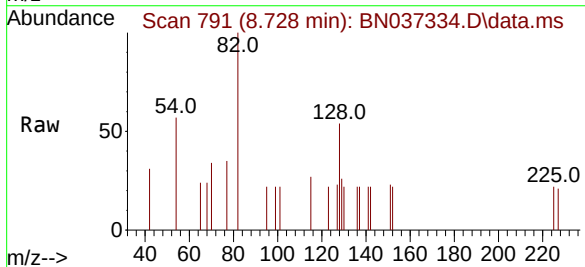
Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

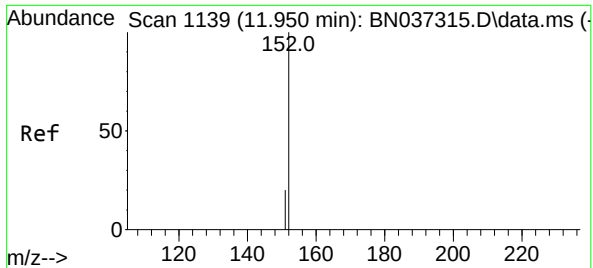
Tgt Ion:	136	Resp:	1697
Ion	Ratio	Lower	Upper
136	100		
137	15.4	12.2	18.2
54	10.2	8.8	13.2
68	7.5	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.306 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

Tgt Ion:	82	Resp:	432
Ion	Ratio	Lower	Upper
82	100		
128	54.3	42.5	63.7
54	57.1	43.2	64.8

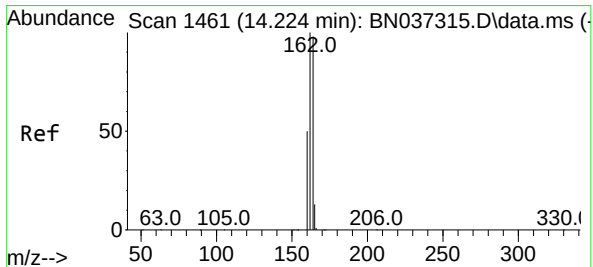
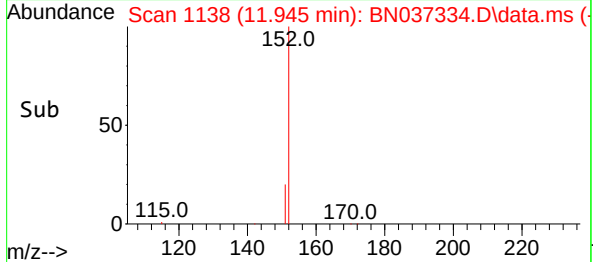
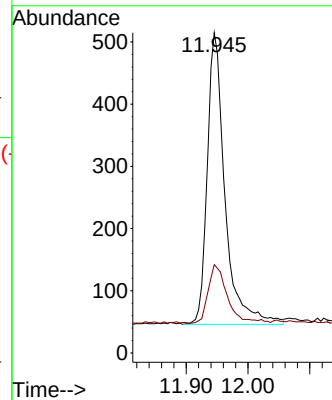
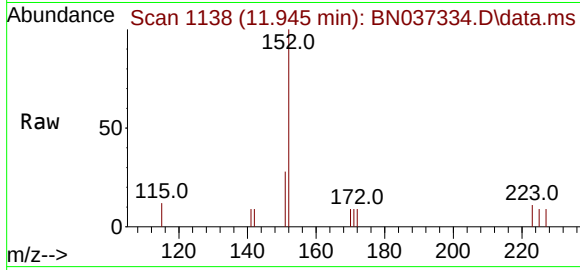




#11
2-Methylnaphthalene-d10
Concen: 0.338 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

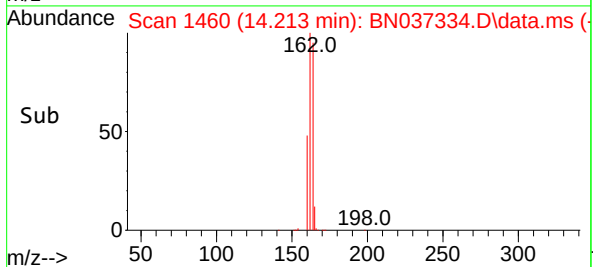
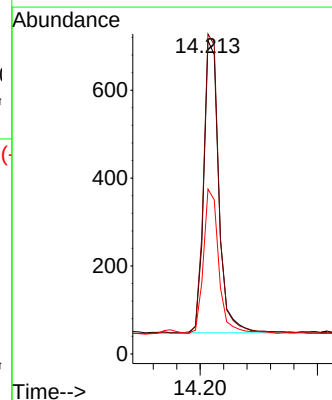
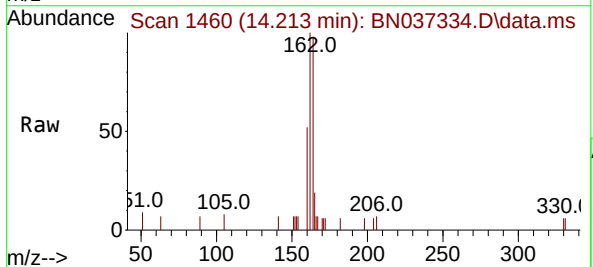
Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

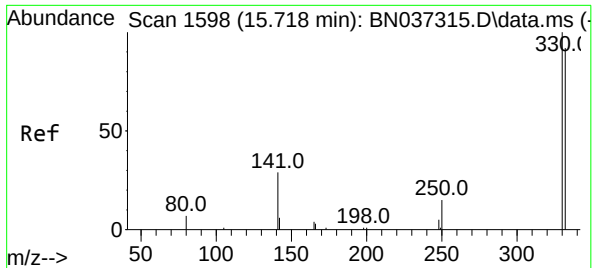
Tgt Ion:152 Resp: 933
Ion Ratio Lower Upper
152 100
151 21.5 17.4 26.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.011 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

Tgt Ion:164 Resp: 1190
Ion Ratio Lower Upper
164 100
162 102.1 81.5 122.3
160 52.6 43.0 64.4



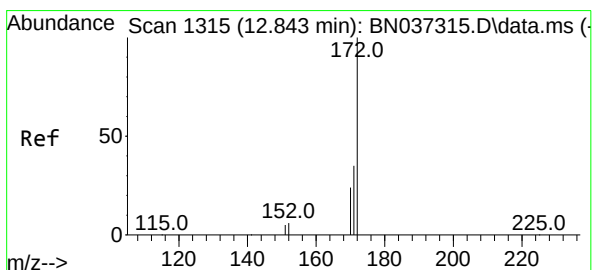
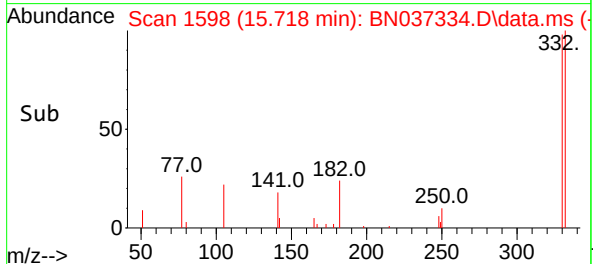
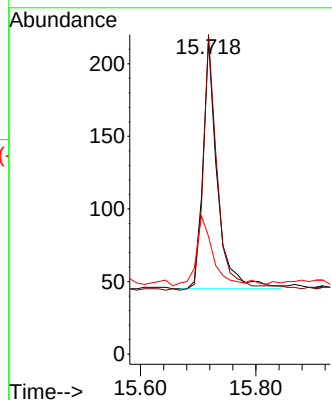
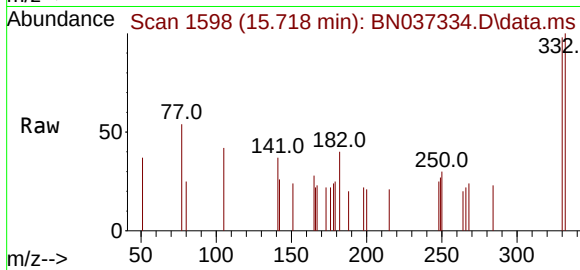


#14
2,4,6-Tribromophenol
Concen: 0.341 ng
RT: 15.718 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

Tgt Ion	330	Resp	299
Ion Ratio	100		
Lower	78.4		
Upper	117.6		

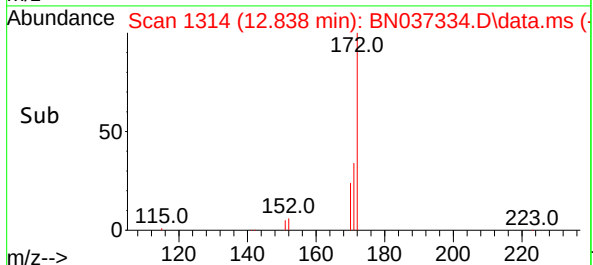
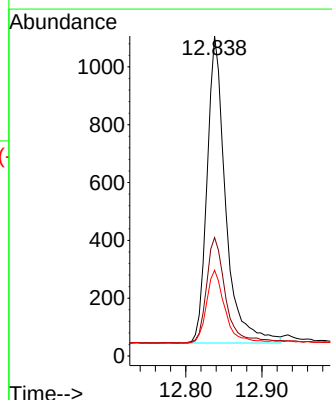
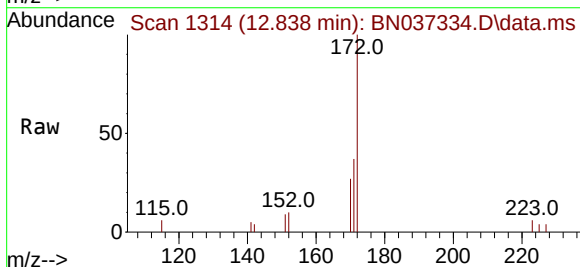
Ion	332	141
Ratio	99.0	32.1
Lower	78.4	24.4
Upper	117.6	36.6

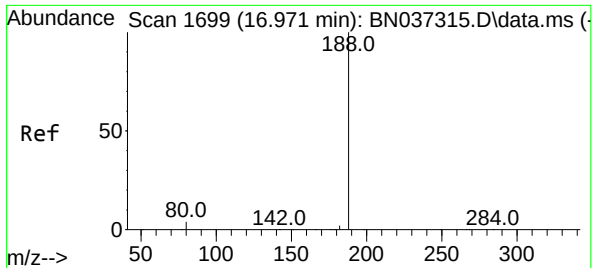


#15
2-Fluorobiphenyl
Concen: 0.347 ng
RT: 12.838 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

Tgt Ion	172	Resp	1807
Ion Ratio	100		
Lower	30.8		
Upper	46.2		

Ion	171	170
Ratio	37.0	26.8
Lower	30.8	21.9
Upper	46.2	32.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037334.D

Acq: 19 Jun 2025 04:05

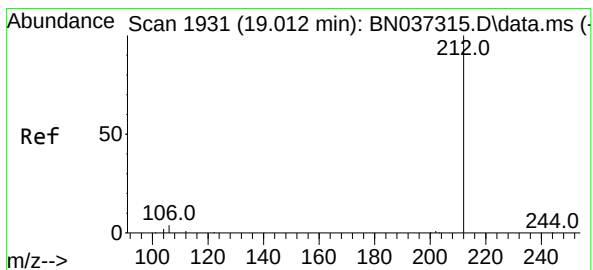
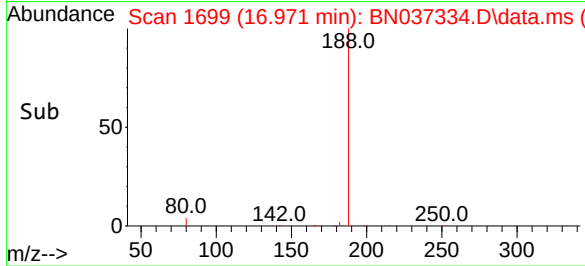
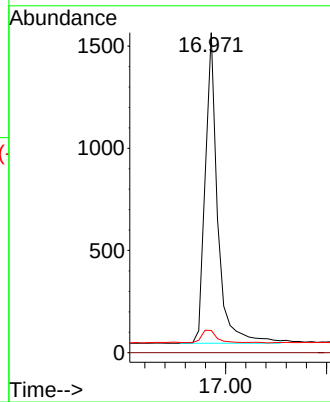
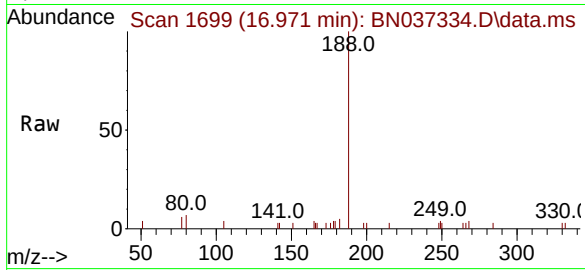
Instrument :

BNA_N

ClientSampleId :

DUP04-20250613

Tgt Ion:	188	Resp:	2601
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.0	6.2	9.2



#27

Fluoranthene-d10

Concen: 0.417 ng

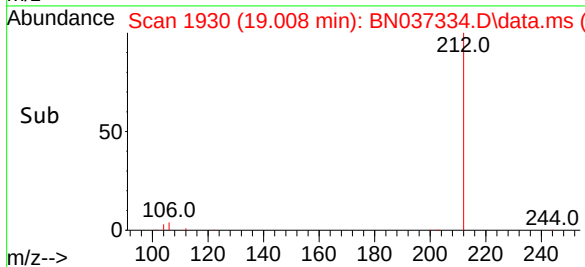
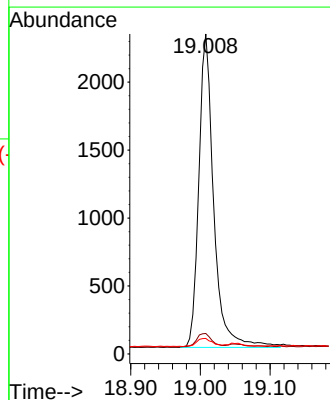
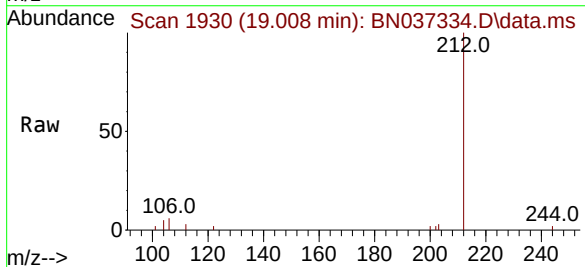
RT: 19.008 min Scan# 1930

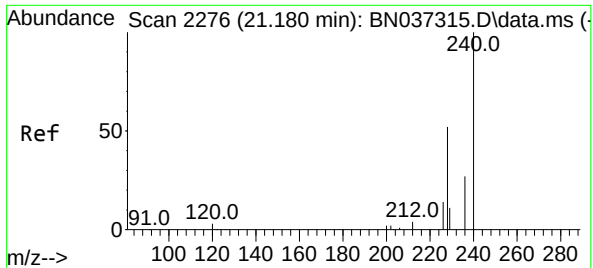
Delta R.T. -0.005 min

Lab File: BN037334.D

Acq: 19 Jun 2025 04:05

Tgt Ion:	212	Resp:	3435
Ion Ratio	Lower	Upper	
212	100		
106	4.4	3.0	4.4
104	2.7	2.0	3.0

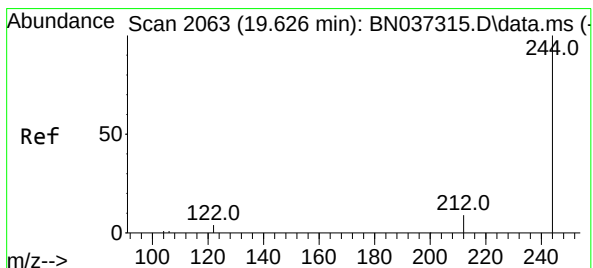
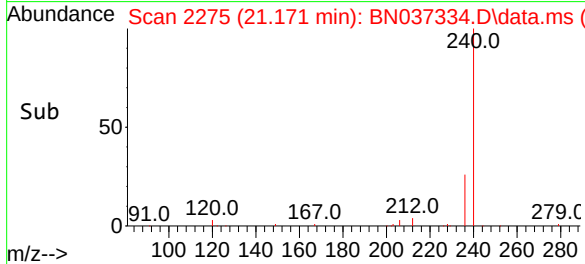
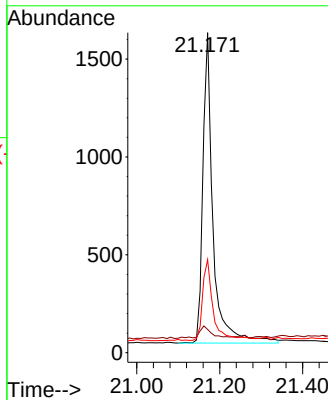
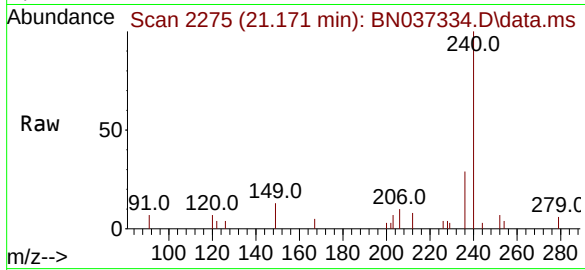




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

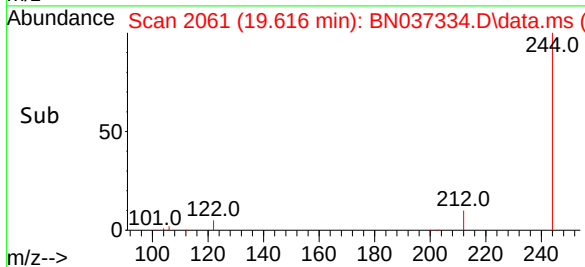
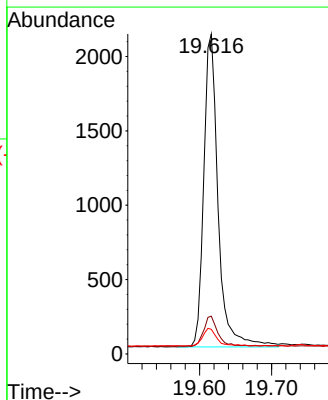
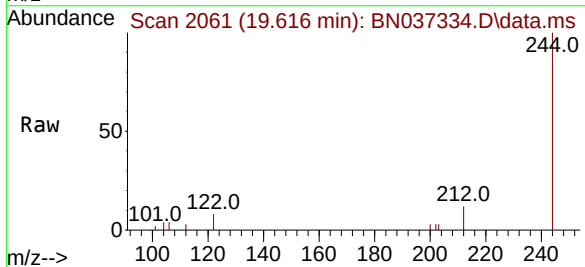
Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

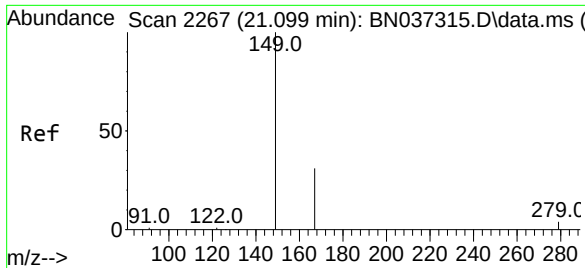
Tgt Ion:240 Resp: 2687
Ion Ratio Lower Upper
240 100
120 7.3 7.5 11.3#
236 29.1 24.9 37.3



#31
Terphenyl-d14
Concen: 0.471 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

Tgt Ion:244 Resp: 2907
Ion Ratio Lower Upper
244 100
212 11.8 11.1 16.7
122 7.7 7.2 10.8

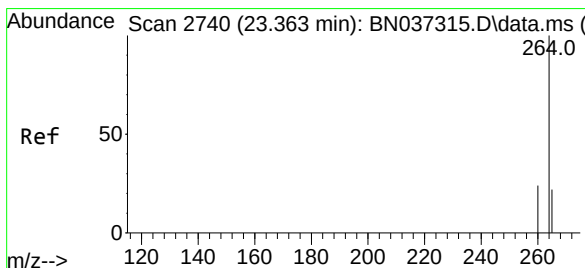
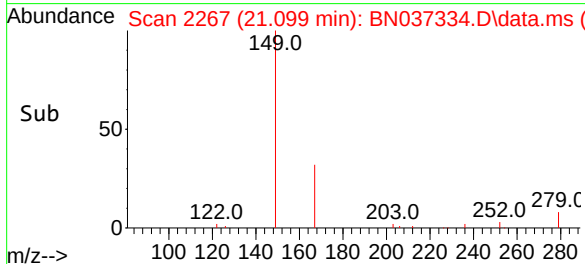
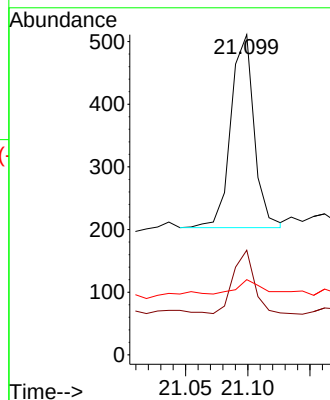
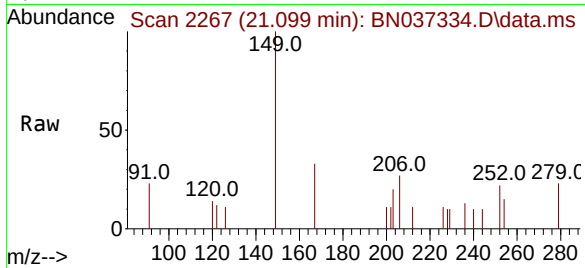




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.099 min Scan# 21099
Delta R.T. 0.000 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

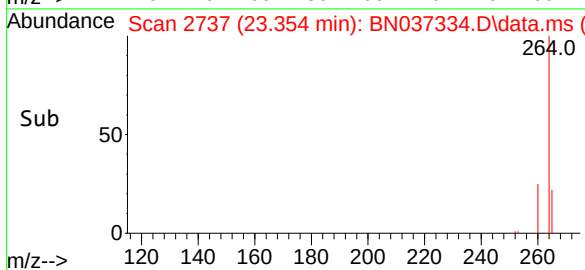
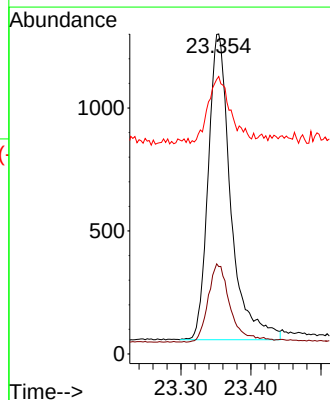
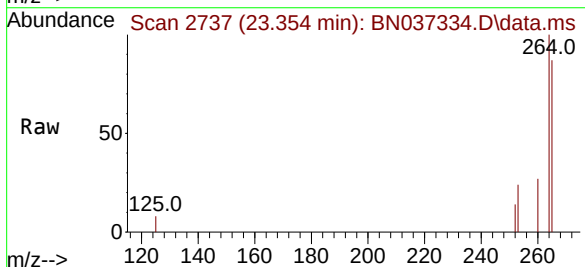
Instrument :
BNA_N
ClientSampleId :
DUP04-20250613

Tgt Ion:149 Resp: 400
Ion Ratio Lower Upper
149 100
167 30.5 24.6 37.0
279 11.0 6.5 9.7#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 2737
Delta R.T. -0.009 min
Lab File: BN037334.D
Acq: 19 Jun 2025 04:05

Tgt Ion:264 Resp: 2780
Ion Ratio Lower Upper
264 100
260 27.3 21.4 32.2
265 86.7 71.4 107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	EB01-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-15	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 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
BN037335.D	1	06/17/25 08:55	06/19/25 04:42	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		102%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	786		7.568			
1146-65-2	Naphthalene-d8	1730		10.351			
15067-26-2	Acenaphthene-d10	1240		14.224			
1517-22-2	Phenanthrene-d10	2670		16.971			
1719-03-5	Chrysene-d12	2620		21.171			
1520-96-3	Perylene-d12	2770		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\BN061925\
Data File : BN037335.D
Acq On : 19 Jun 2025 04:42
Operator : RC/JU
Sample : Q2329-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-20250613

Quant Time: Jun 19 07:30:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

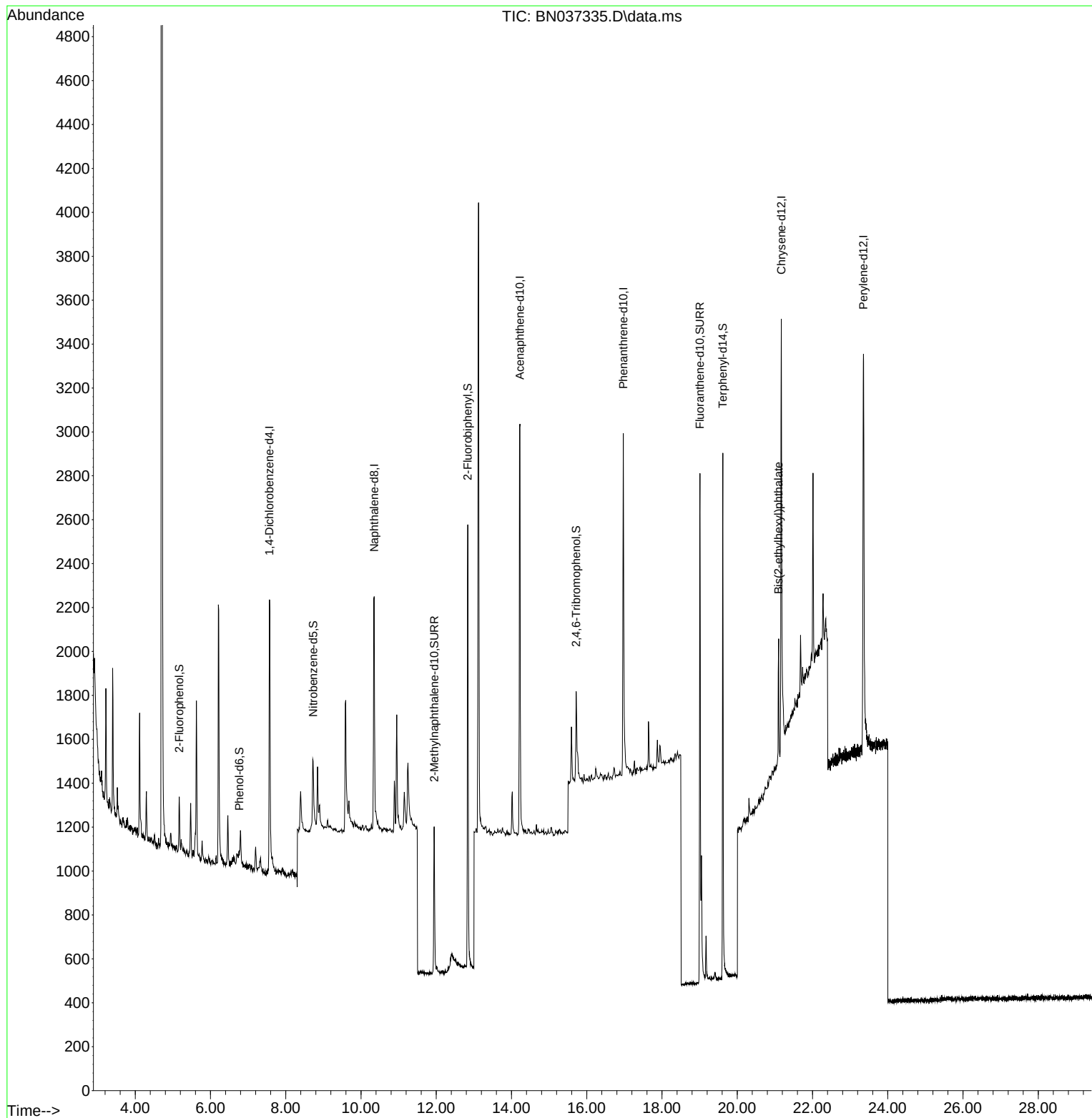
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	786	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1733	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1237	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2666	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2615	0.400	ng	0.00
35) Perylene-d12	23.354	264	2770	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	204	0.143	ng	0.00
5) Phenol-d6	6.766	99	104	0.074	ng	0.00
8) Nitrobenzene-d5	8.728	82	457	0.317	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	1011	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	318	0.349	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	1931	0.356	ng	0.00
27) Fluoranthene-d10	19.008	212	3467	0.410	ng	0.00
31) Terphenyl-d14	19.616	244	2768	0.461	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.099	149	535	0.155	ng	Qvalue # 97

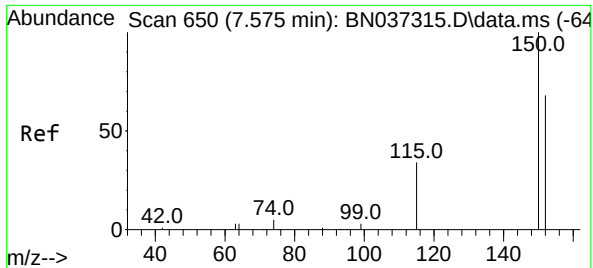
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037335.D
Acq On : 19 Jun 2025 04:42
Operator : RC/JU
Sample : Q2329-15
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-20250613

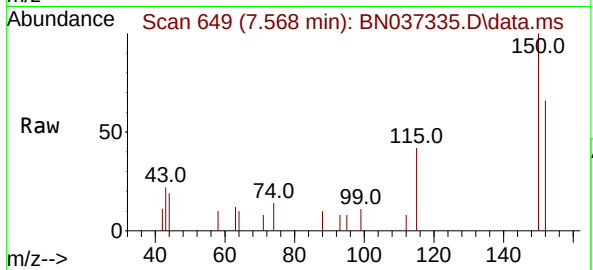
Quant Time: Jun 19 07:30:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration



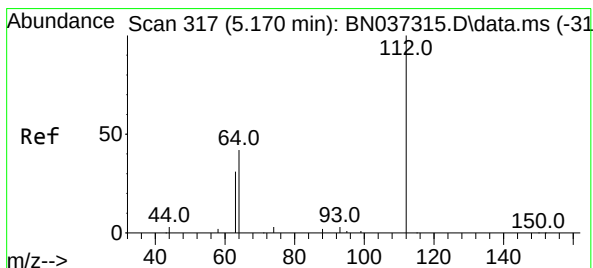
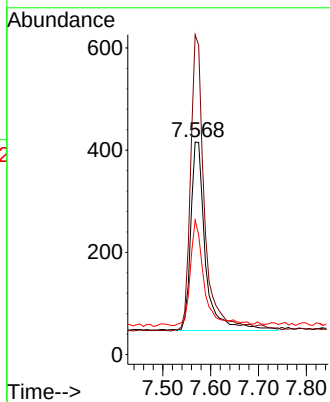
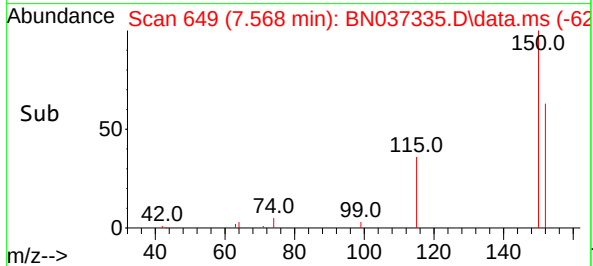


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.007 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

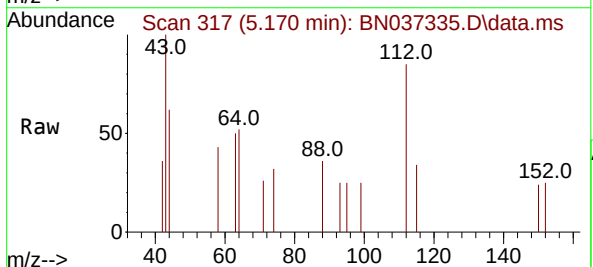
Instrument :
BNA_N
ClientSampleId :
EB01-20250613



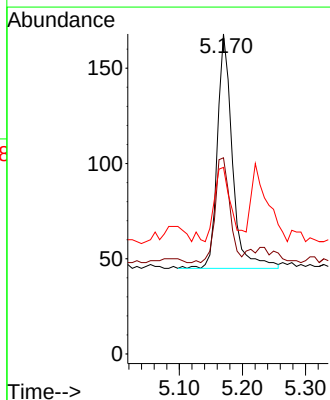
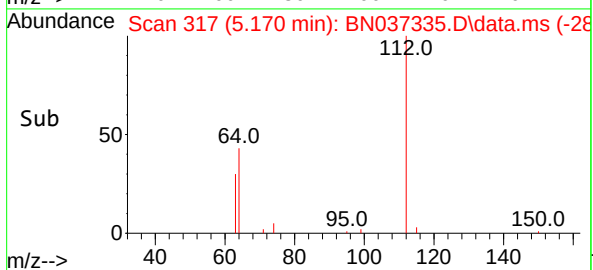
Tgt Ion:152 Resp: 786
Ion Ratio Lower Upper
152 100
150 150.5 112.7 169.1
115 63.2 45.9 68.9

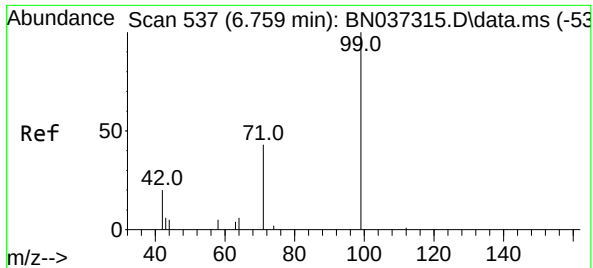


#4
2-Fluorophenol
Concen: 0.143 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42



Tgt Ion:112 Resp: 204
Ion Ratio Lower Upper
112 100
64 43.1 38.7 58.1
63 35.8 26.4 39.6

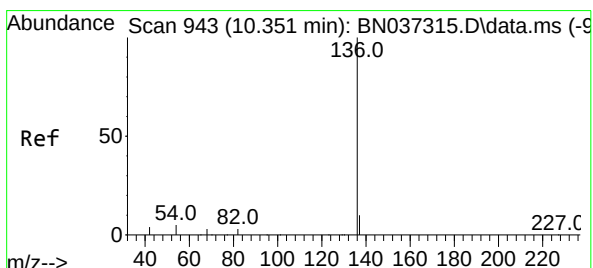
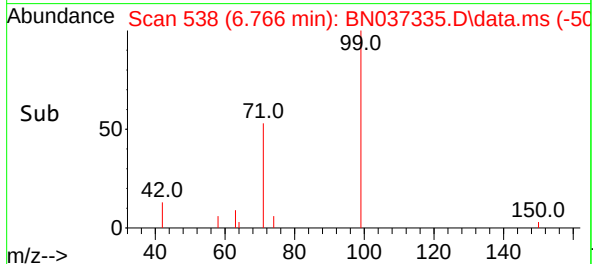
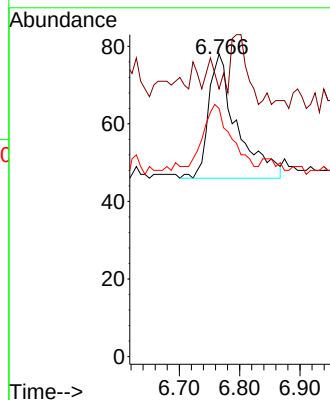
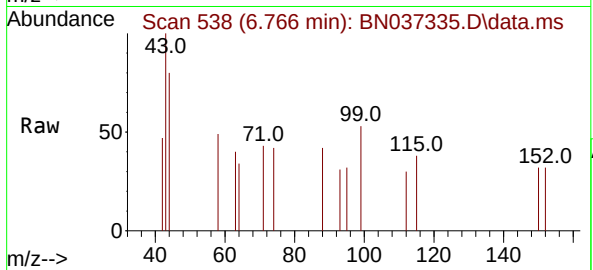




#5
Phenol-d6
Concen: 0.074 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

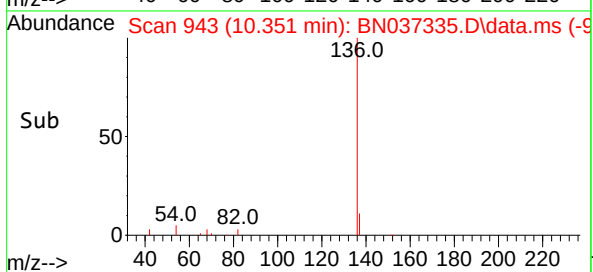
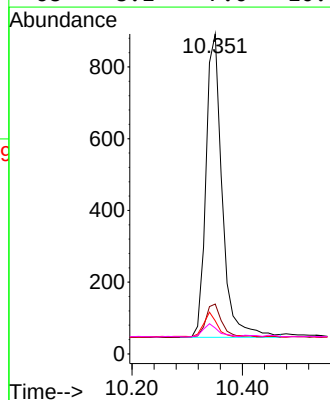
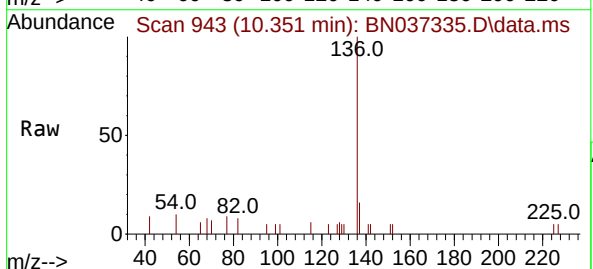
Instrument :
BNA_N
ClientSampleId :
EB01-20250613

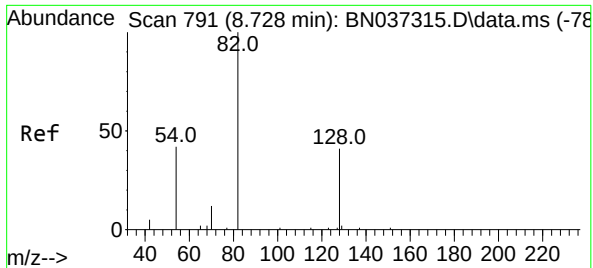
Tgt Ion: 99 Resp: 104
Ion Ratio Lower Upper
99 100
42 9.6 19.8 29.8#
71 57.7 42.6 64.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

Tgt Ion: 136 Resp: 1733
Ion Ratio Lower Upper
136 100
137 15.6 12.2 18.2
54 10.3 8.8 13.2
68 8.1 7.0 10.4

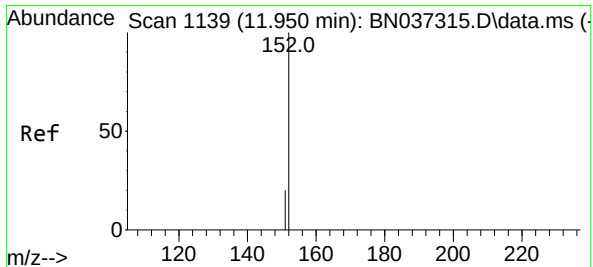
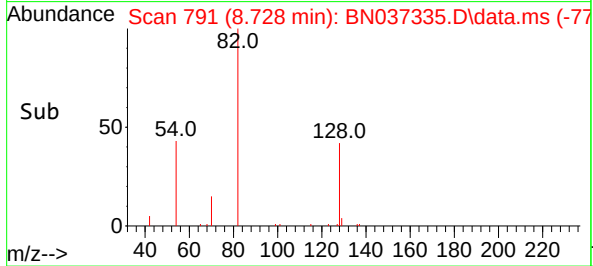
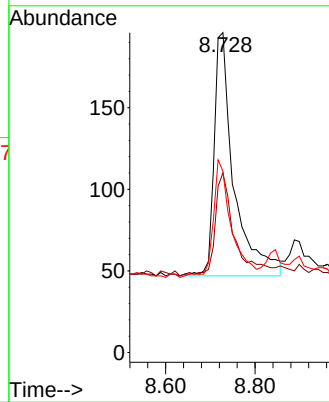
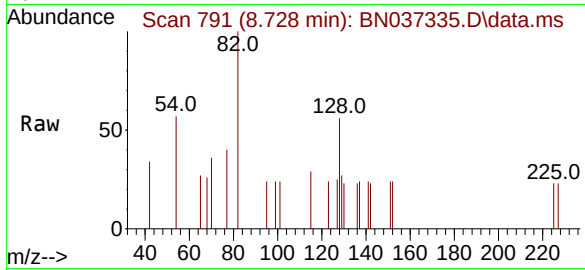




#8
Nitrobenzene-d5
Concen: 0.317 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

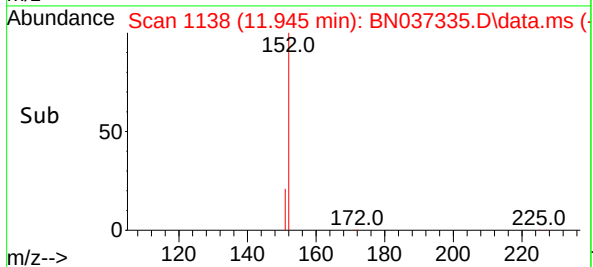
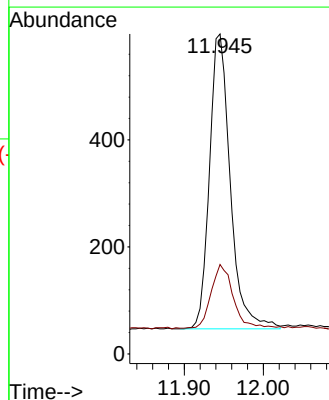
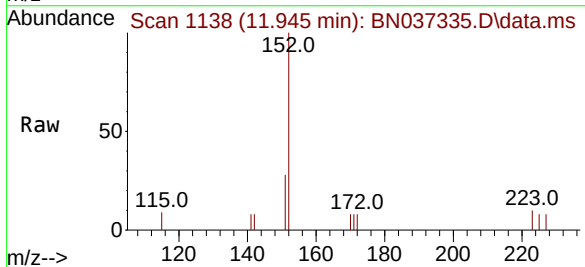
Instrument :
BNA_N
ClientSampleId :
EB01-20250613

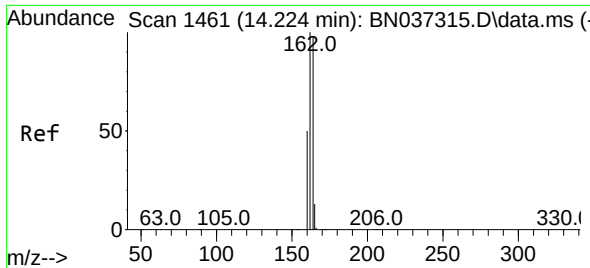
Tgt Ion:	82	Resp:	457
Ion	Ratio	Lower	Upper
82	100		
128	56.1	42.5	63.7
54	56.6	43.2	64.8



#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

Tgt Ion:	152	Resp:	1011
Ion	Ratio	Lower	Upper
152	100		
151	23.2	17.4	26.0

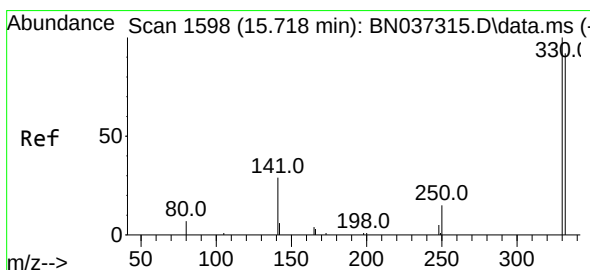
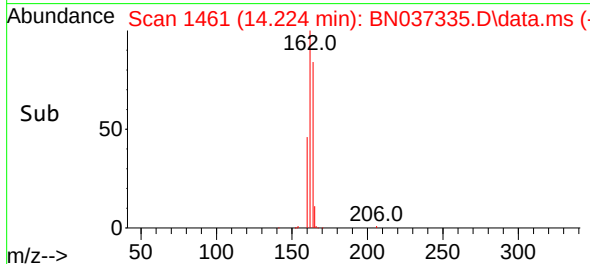
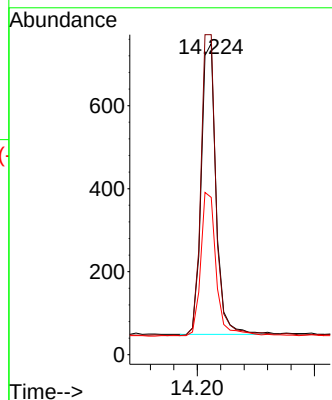
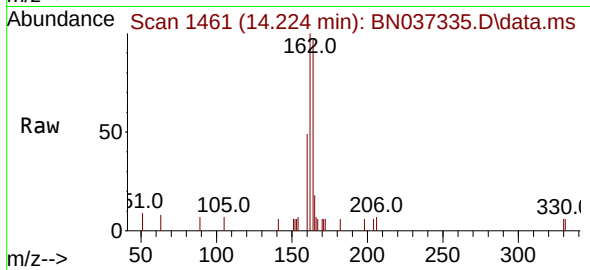




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

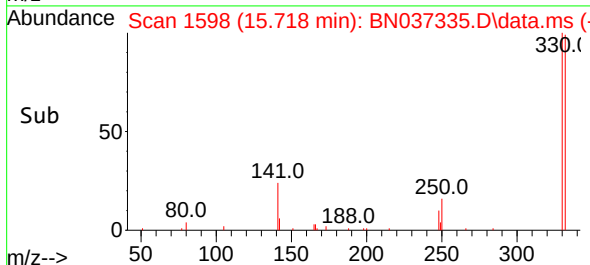
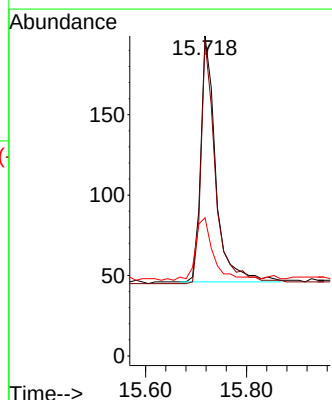
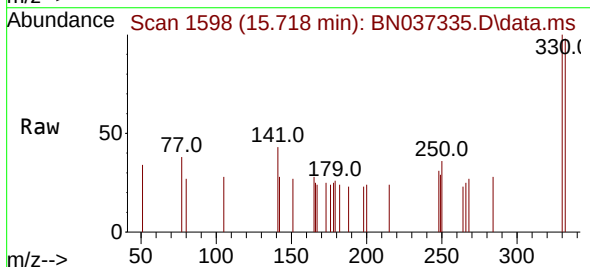
Instrument :
BNA_N
ClientSampleId :
EB01-20250613

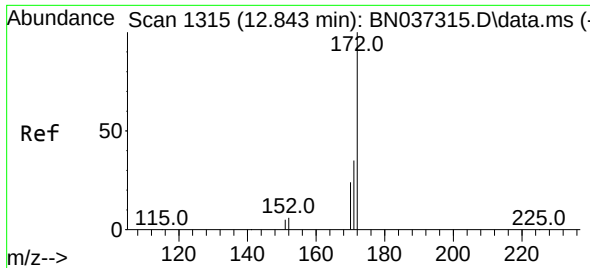
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	81.5	122.3
160	50.5	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.349 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	78.4	117.6
141	30.8	24.4	36.6

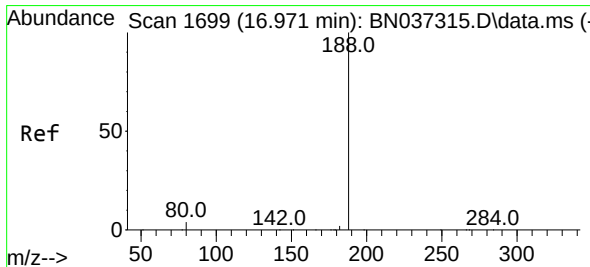
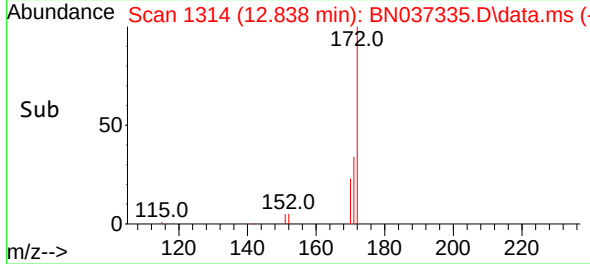
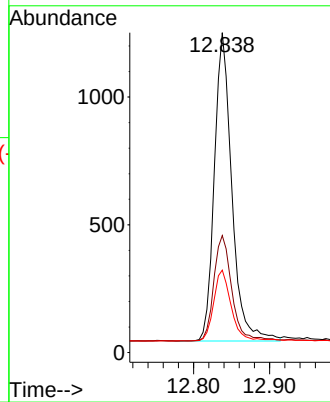
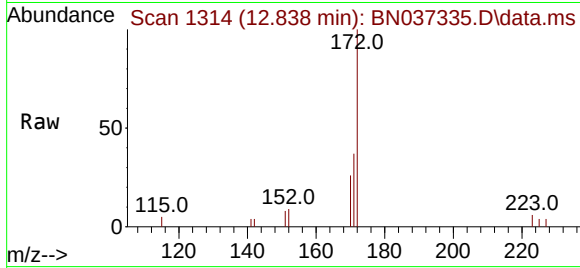




#15
2-Fluorobiphenyl
Concen: 0.356 ng
RT: 12.838 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

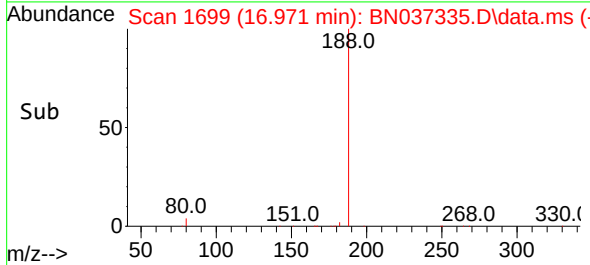
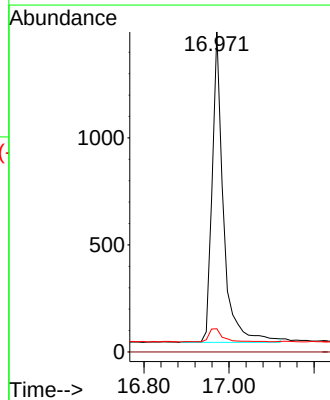
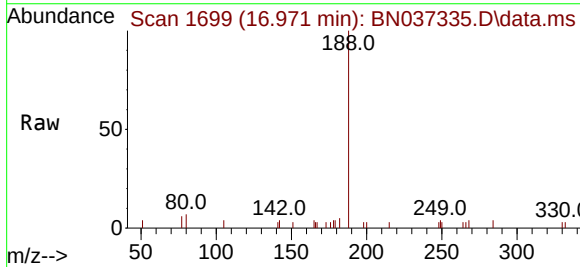
Instrument :
BNA_N
ClientSampleId :
EB01-20250613

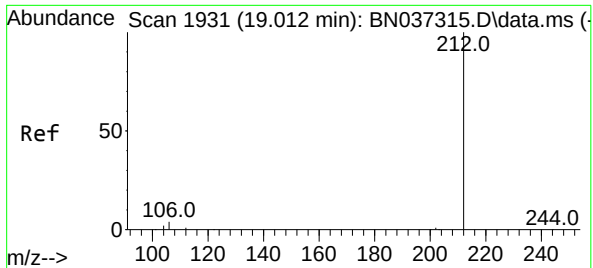
Tgt Ion:	172	Resp:	1931
Ion Ratio	Lower	Upper	
172	100		
171	36.6	30.8	46.2
170	25.8	21.9	32.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

Tgt Ion:	188	Resp:	2666
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.2	6.2	9.2

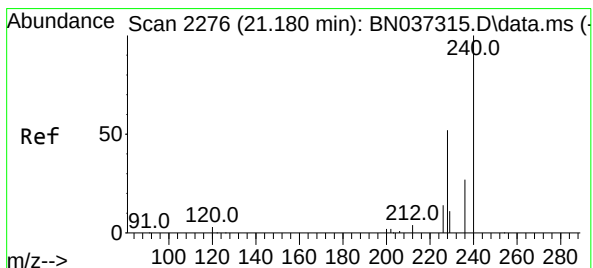
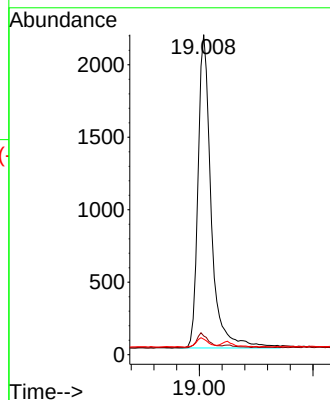
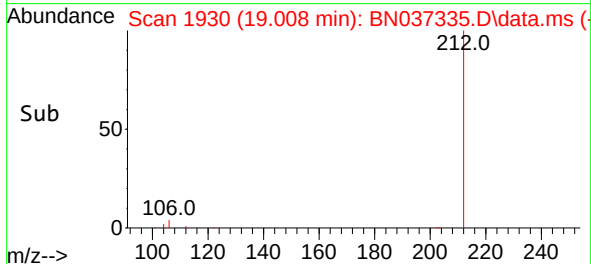
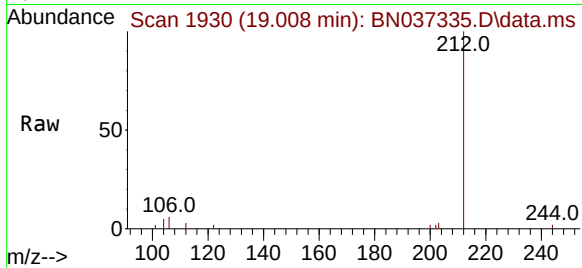




#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

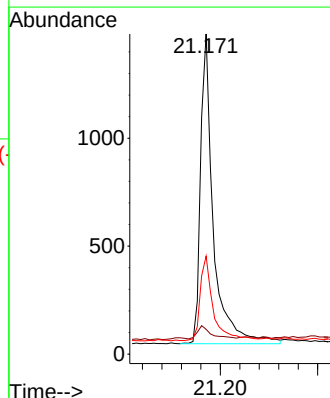
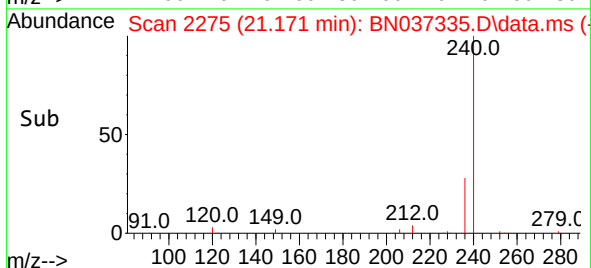
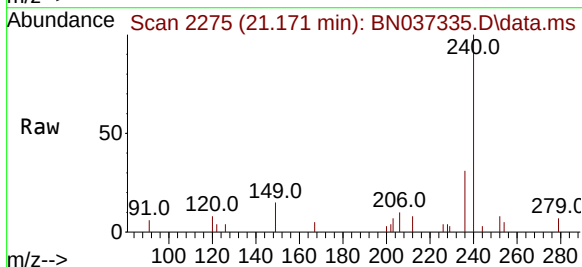
Instrument :
BNA_N
ClientSampleId :
EB01-20250613

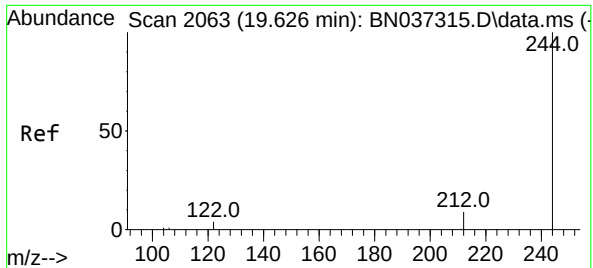
Tgt Ion:	212	Resp:	3467
Ion Ratio	Lower	Upper	
212	100		
106	4.3	3.0	4.4
104	2.8	2.0	3.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.009 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

Tgt Ion:	240	Resp:	2615
Ion Ratio	Lower	Upper	
240	100		
120	7.8	7.5	11.3
236	30.6	24.9	37.3

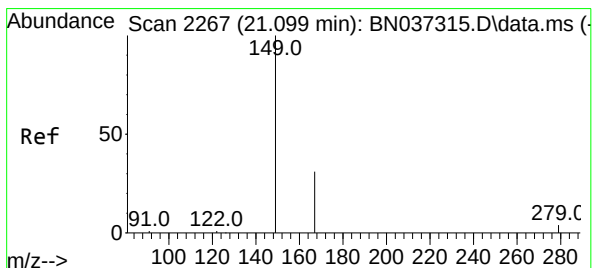
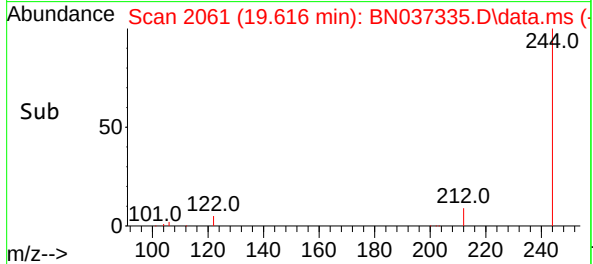
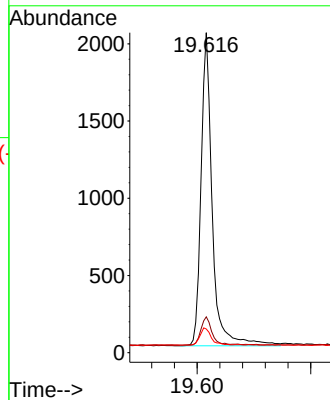
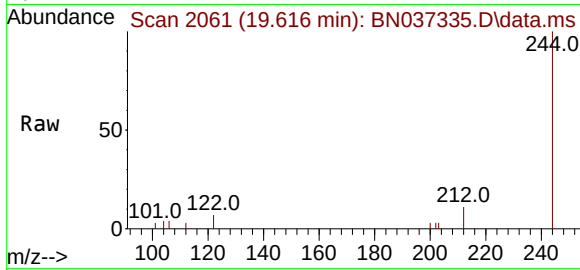




#31
Terphenyl-d14
Concen: 0.461 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

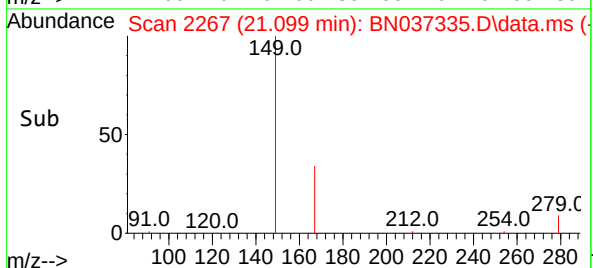
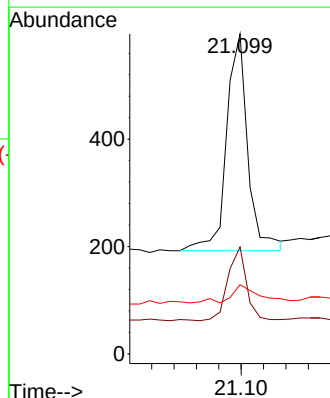
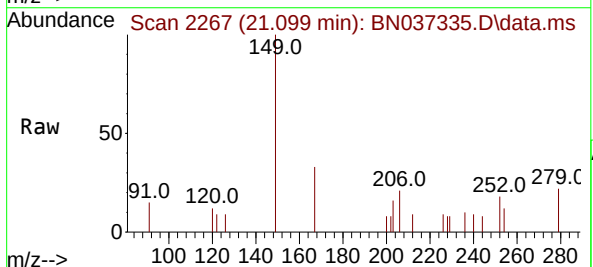
Instrument :
BNA_N
ClientSampleId :
EB01-20250613

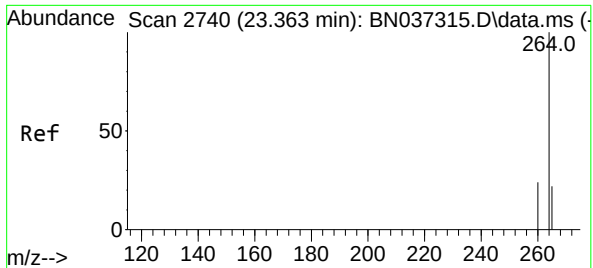
Tgt Ion:	244	Resp:	2768
Ion	Ratio	Lower	Upper
244	100		
212	11.2	11.1	16.7
122	7.4	7.2	10.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.155 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037335.D
Acq: 19 Jun 2025 04:42

Tgt Ion:	149	Resp:	535
Ion	Ratio	Lower	Upper
149	100		
167	29.7	24.6	37.0
279	11.2	6.5	9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037335.D

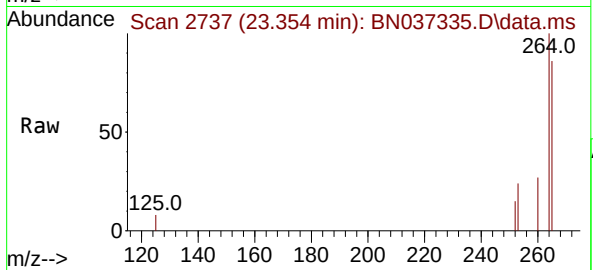
Acq: 19 Jun 2025 04:42

Instrument :

BNA_N

ClientSampleId :

EB01-20250613



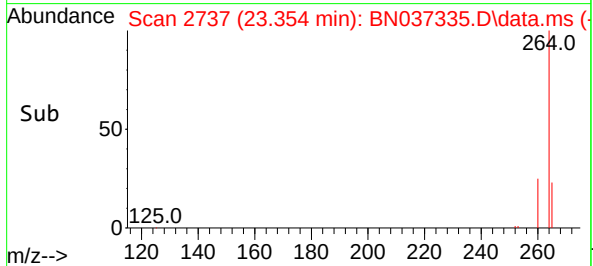
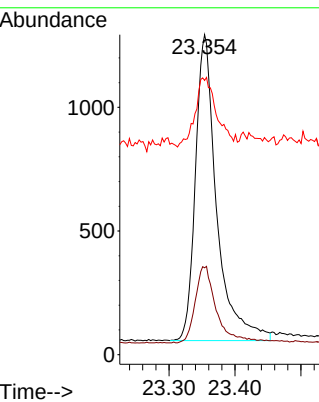
Tgt Ion:264 Resp: 2770

Ion	Ratio	Lower	Upper

264	100		

260	27.1	21.4	32.2

265	85.7	71.4	107.0



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT163S1-20250613	SDG No.:	Q2329
Lab Sample ID:	Q2329-18	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
BN037336.D	1	06/17/25 08:55	06/19/25 05:18	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.52		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.49		30 - 150		123%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		83%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		111%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	800	7.568				
1146-65-2	Naphthalene-d8	1770	10.351				
15067-26-2	Acenaphthene-d10	1340	14.213				
1517-22-2	Phenanthrene-d10	3030	16.971				
1719-03-5	Chrysene-d12	3750	21.171				
1520-96-3	Perylene-d12	4130	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\BN061925\
Data File : BN037336.D
Acq On : 19 Jun 2025 05:18
Operator : RC/JU
Sample : Q2329-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250613

Quant Time: Jun 19 06:28:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

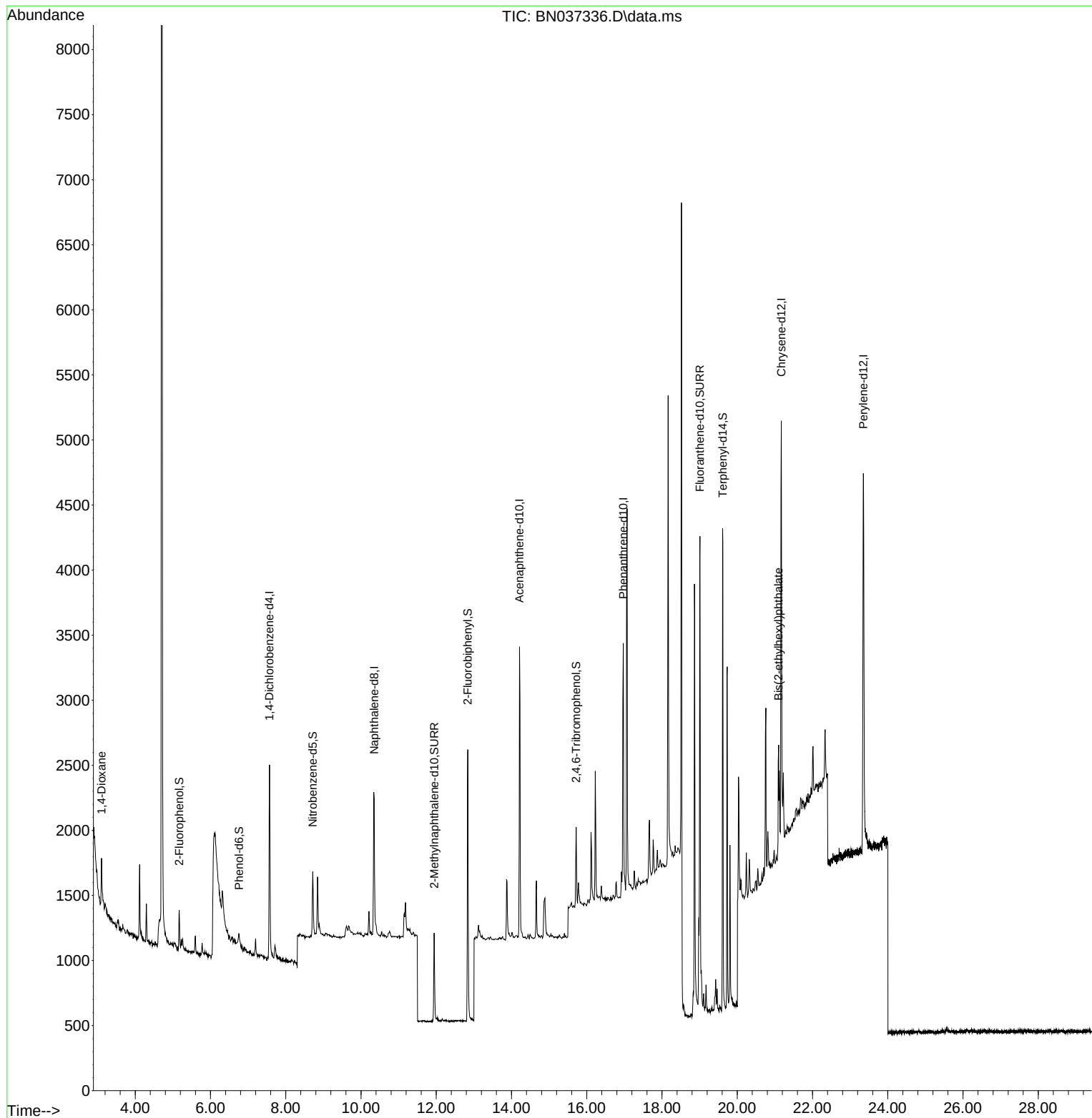
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	800	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1772	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	1339	0.400	ng	-0.01
19) Phenanthrene-d10	16.971	188	3031	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3753	0.400	ng	# 0.00
35) Perylene-d12	23.351	264	4134	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	221	0.152	ng	0.00
5) Phenol-d6	6.759	99	120	0.084	ng	0.00
8) Nitrobenzene-d5	8.717	82	500	0.339	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	999	0.347	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	404	0.409	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	1961	0.334	ng	0.00
27) Fluoranthene-d10	19.008	212	4717	0.491	ng	0.00
31) Terphenyl-d14	19.616	244	3810	0.442	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	373	0.522	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.099	149	945	0.191	ng	# 76

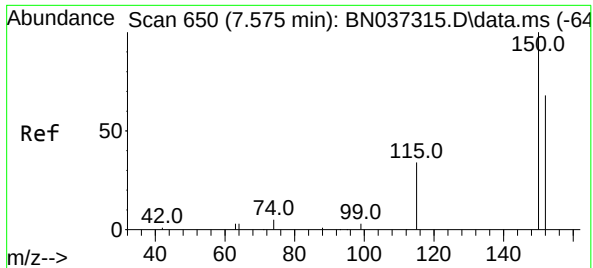
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037336.D
Acq On : 19 Jun 2025 05:18
Operator : RC/JU
Sample : Q2329-18
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT163S1-20250613

Quant Time: Jun 19 06:28:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

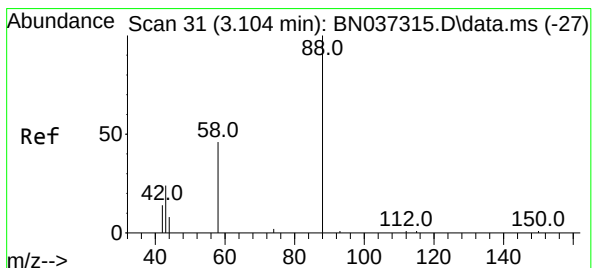
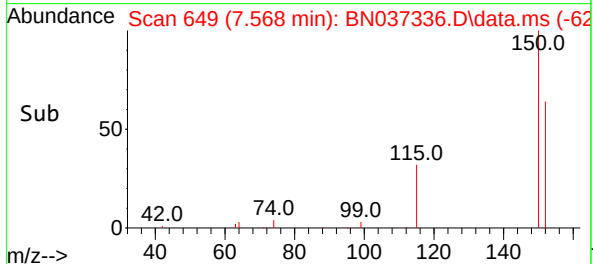
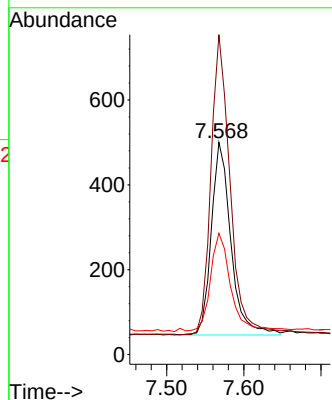
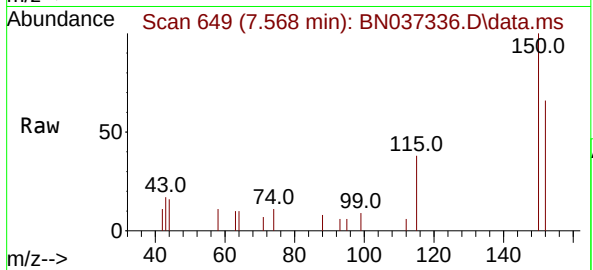




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

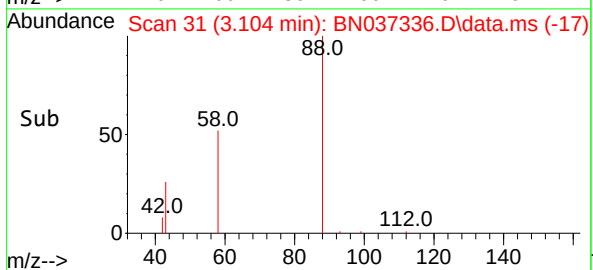
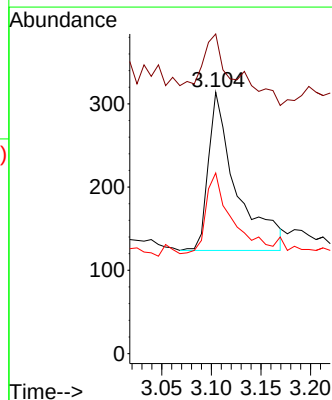
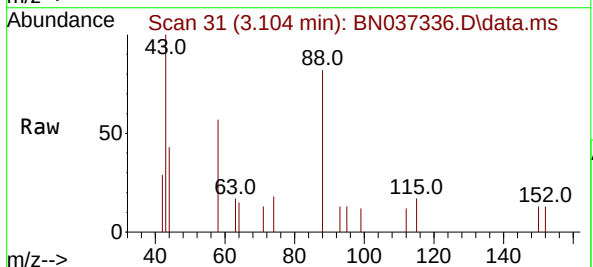
Instrument :
BNA_N
ClientSampleId :
TT163S1-20250613

Tgt Ion:152 Resp: 800
Ion Ratio Lower Upper
152 100
150 150.8 112.7 169.1
115 57.2 45.9 68.9

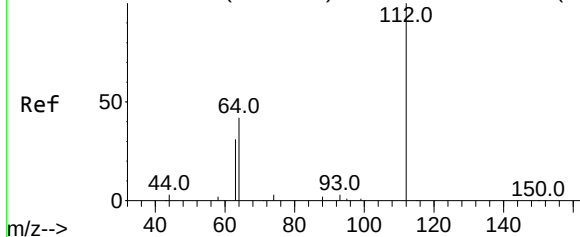


#2
1,4-Dioxane
Concen: 0.522 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

Tgt Ion: 88 Resp: 373
Ion Ratio Lower Upper
88 100
43 50.7 21.0 31.6#
58 48.5 38.0 57.0



Abundance Scan 317 (5.170 min): BN037315.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.152 ng

RT: 5.170 min Scan# 317

Delta R.T. -0.000 min

Lab File: BN037336.D

Acq: 19 Jun 2025 05:18

Instrument :

BNA_N

ClientSampleId :

TT163S1-20250613

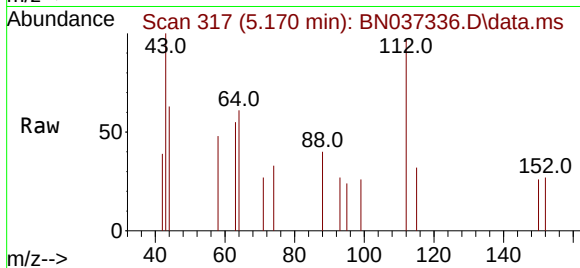
Tgt Ion:112 Resp: 221

Ion Ratio Lower Upper

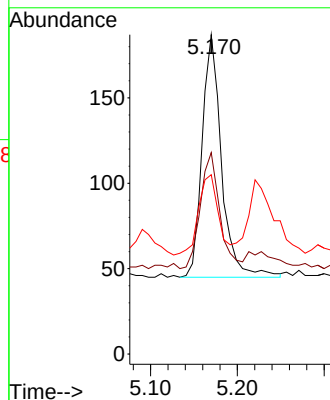
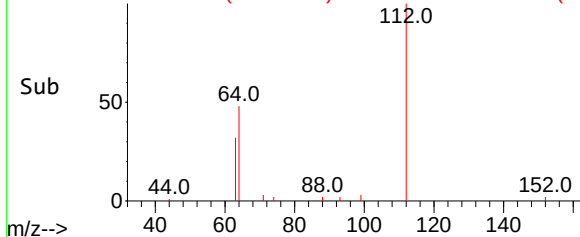
112 100

64 48.9 38.7 58.1

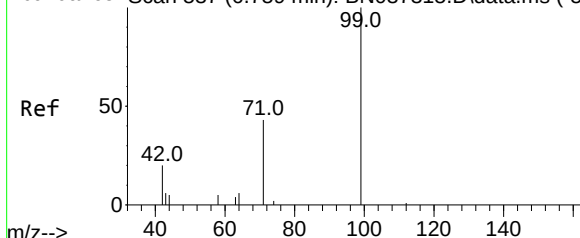
63 33.5 26.4 39.6



Abundance Scan 317 (5.170 min): BN037336.D\data.ms (-28



Abundance Scan 537 (6.759 min): BN037315.D\data.ms (-53



#5

Phenol-d6

Concen: 0.084 ng

RT: 6.759 min Scan# 537

Delta R.T. -0.000 min

Lab File: BN037336.D

Acq: 19 Jun 2025 05:18

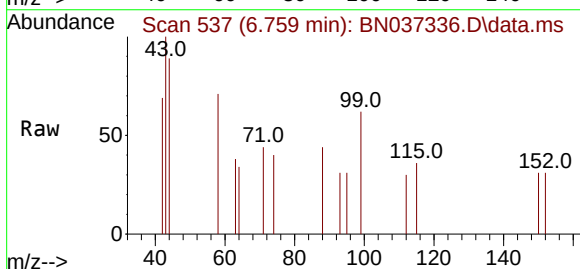
Tgt Ion: 99 Resp: 120

Ion Ratio Lower Upper

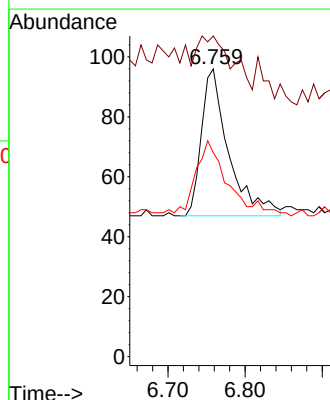
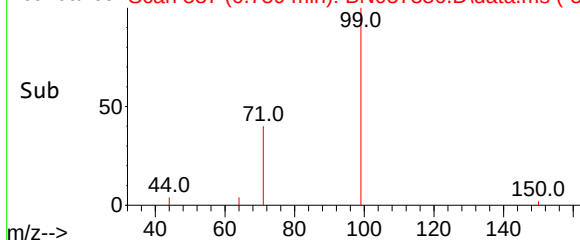
99 100

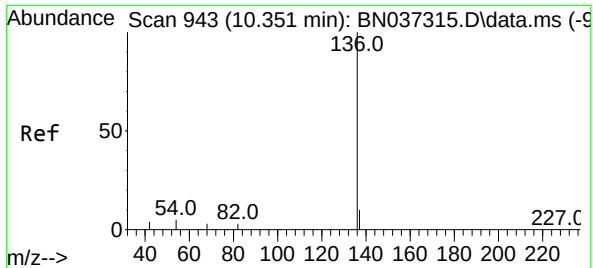
42 46.7 19.8 29.8#

71 50.8 42.6 64.0



Abundance Scan 537 (6.759 min): BN037336.D\data.ms (-50

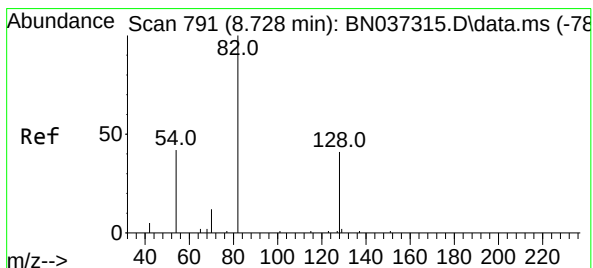
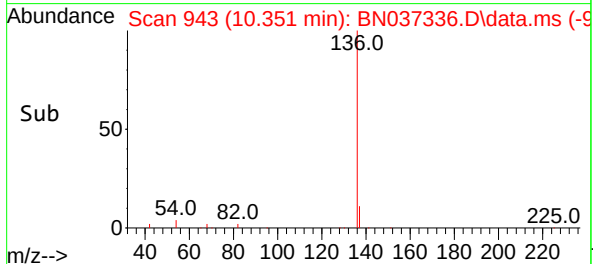
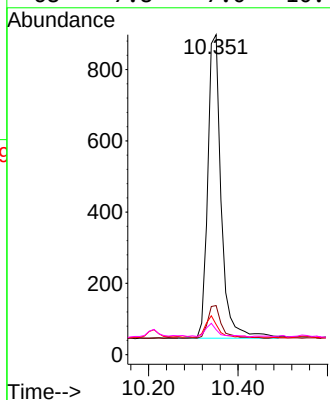
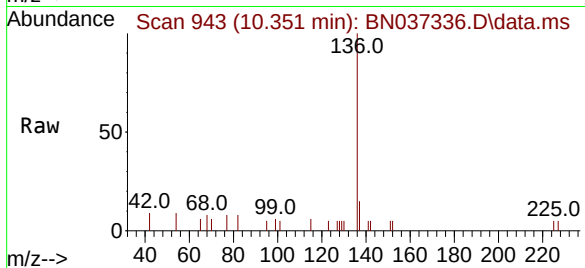




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

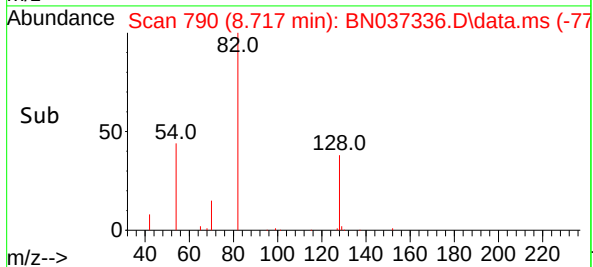
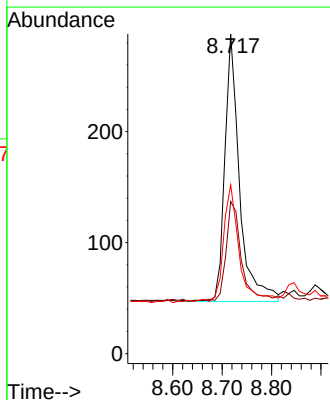
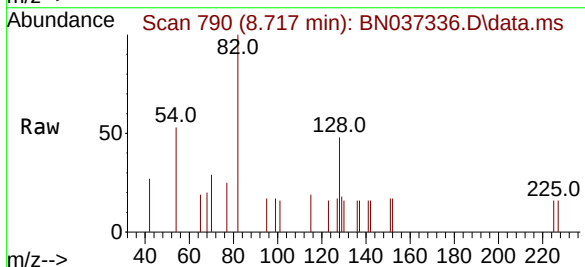
Instrument :
BNA_N
ClientSampleId :
TT163S1-20250613

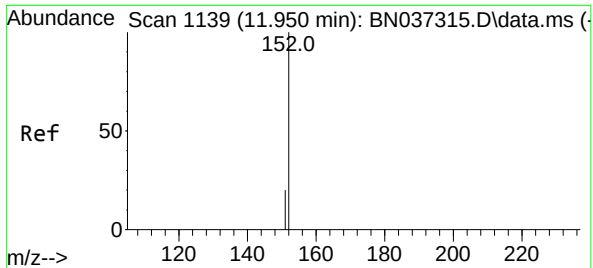
Tgt Ion:	136	Resp:	1772
Ion	Ratio	Lower	Upper
136	100		
137	15.4	12.2	18.2
54	9.5	8.8	13.2
68	7.8	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

Tgt Ion:	82	Resp:	500
Ion	Ratio	Lower	Upper
82	100		
128	47.6	42.5	63.7
54	52.8	43.2	64.8

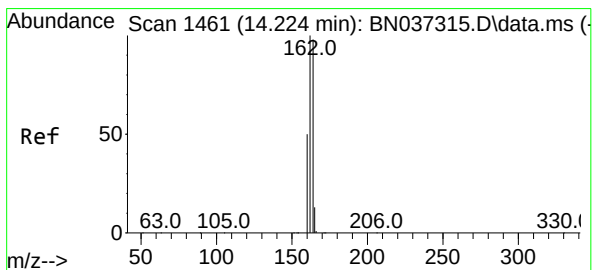
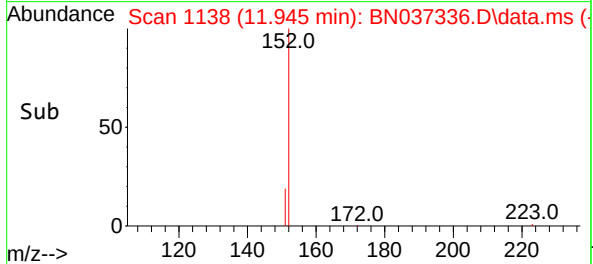
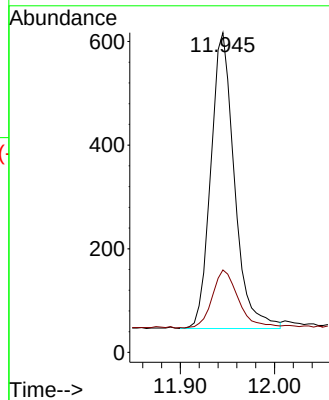
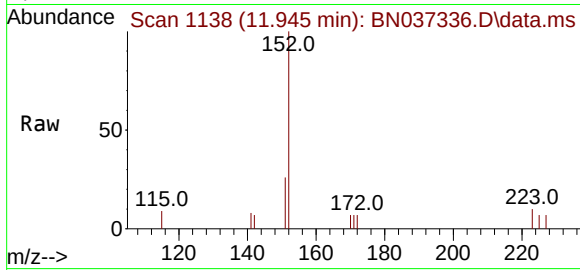




#11
2-Methylnaphthalene-d10
Concen: 0.347 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

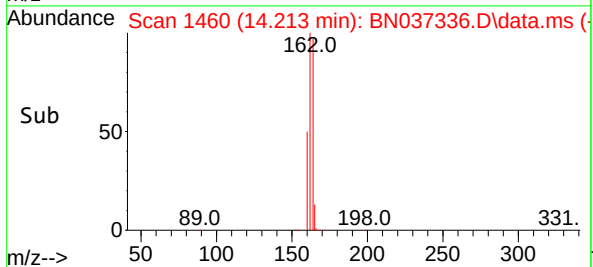
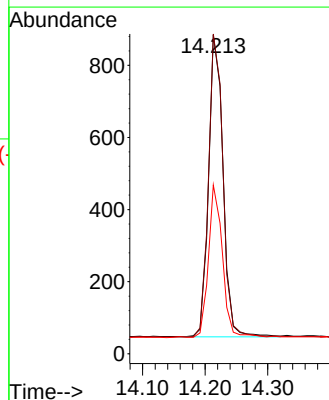
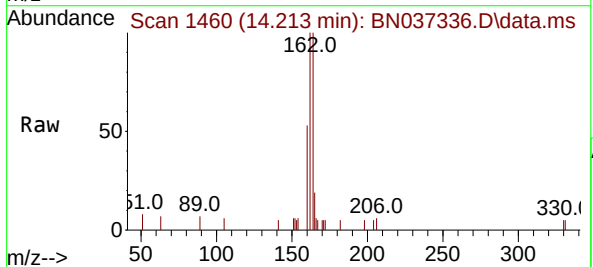
Instrument :
BNA_N
ClientSampleId :
TT163S1-20250613

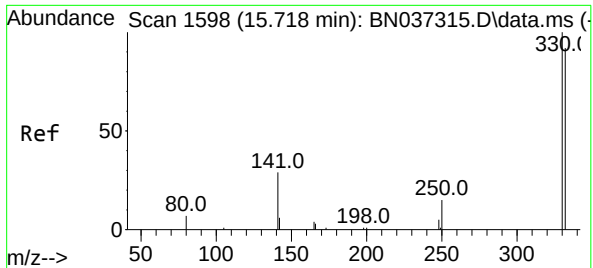
Tgt Ion:152 Resp: 999
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.011 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

Tgt Ion:164 Resp: 1339
Ion Ratio Lower Upper
164 100
162 100.3 81.5 122.3
160 52.9 43.0 64.4





#14

2,4,6-Tribromophenol

Concen: 0.409 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037336.D

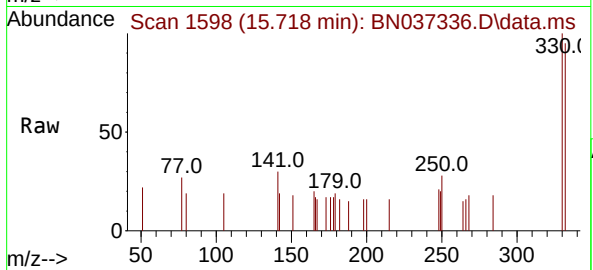
Acq: 19 Jun 2025 05:18

Instrument :

BNA_N

ClientSampleId :

TT163S1-20250613



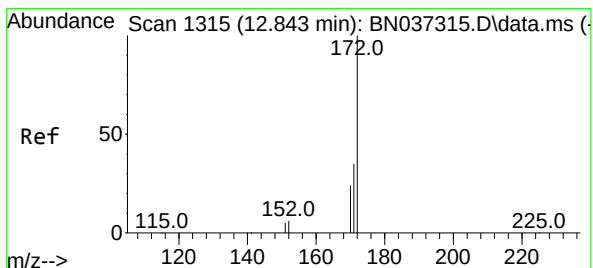
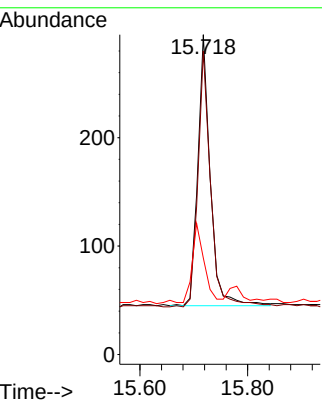
Tgt Ion:330 Resp: 404

Ion Ratio Lower Upper

330 100

332 96.3 78.4 117.6

141 29.2 24.4 36.6



#15

2-Fluorobiphenyl

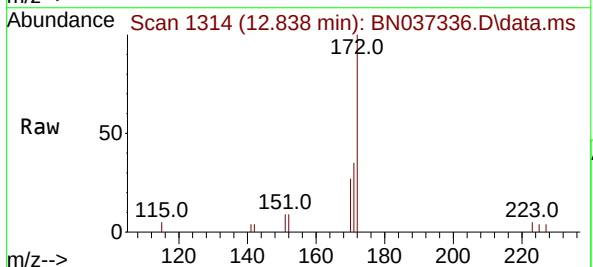
Concen: 0.334 ng

RT: 12.838 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BN037336.D

Acq: 19 Jun 2025 05:18



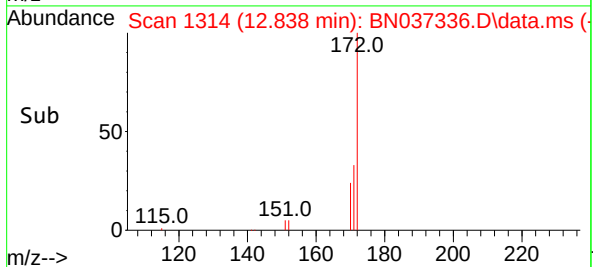
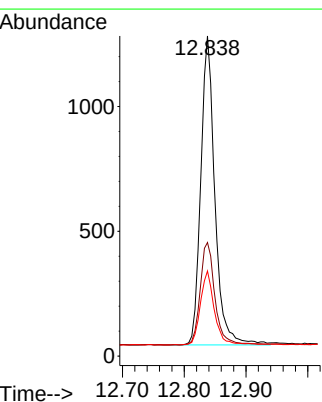
Tgt Ion:172 Resp: 1961

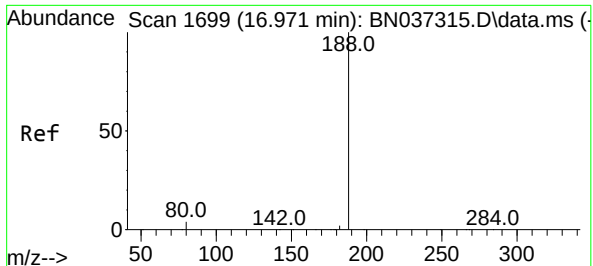
Ion Ratio Lower Upper

172 100

171 35.5 30.8 46.2

170 26.6 21.9 32.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037336.D

Acq: 19 Jun 2025 05:18

Instrument :

BNA_N

ClientSampleId :

TT163S1-20250613

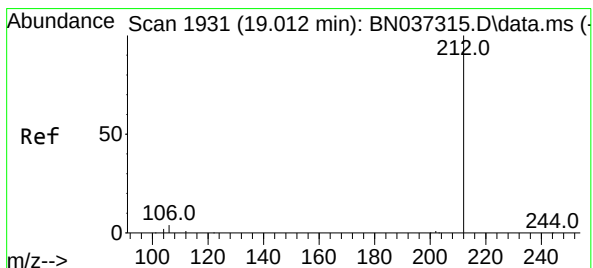
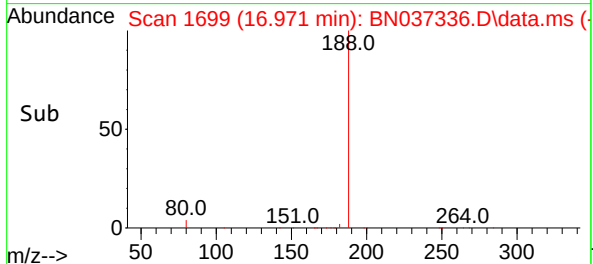
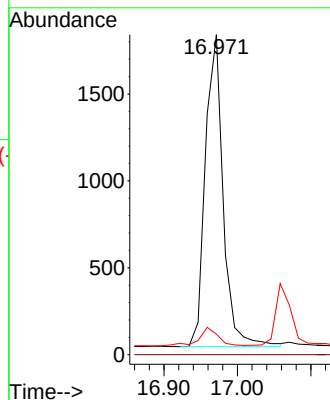
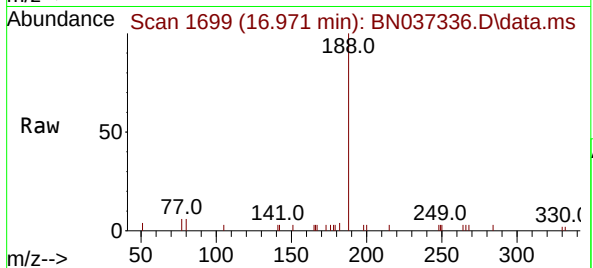
Tgt Ion:188 Resp: 3031

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.4 6.2 9.2



#27

Fluoranthene-d10

Concen: 0.491 ng

RT: 19.008 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037336.D

Acq: 19 Jun 2025 05:18

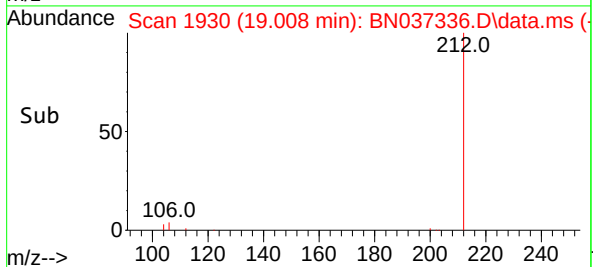
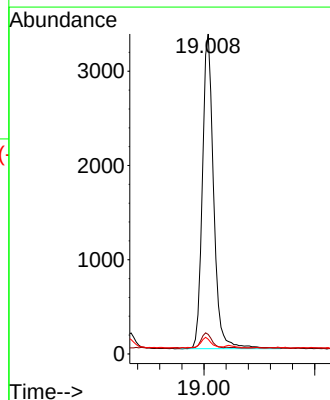
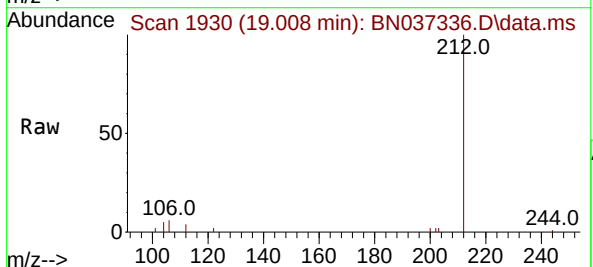
Tgt Ion:212 Resp: 4717

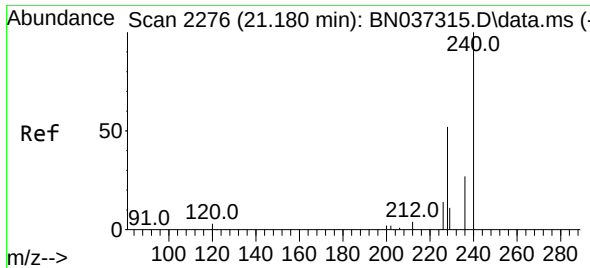
Ion Ratio Lower Upper

212 100

106 4.7 3.0 4.4#

104 3.3 2.0 3.0#





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037336.D

Acq: 19 Jun 2025 05:18

Instrument :

BNA_N

ClientSampleId :

TT163S1-20250613

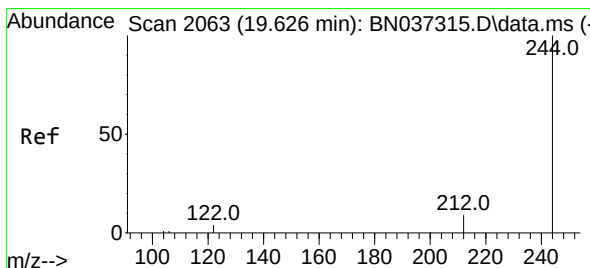
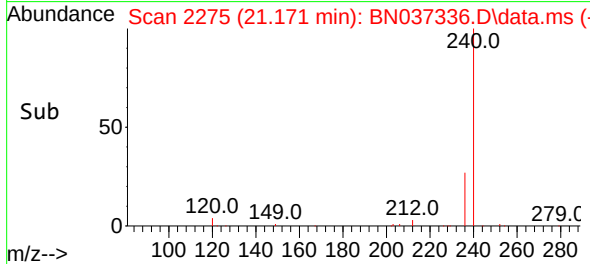
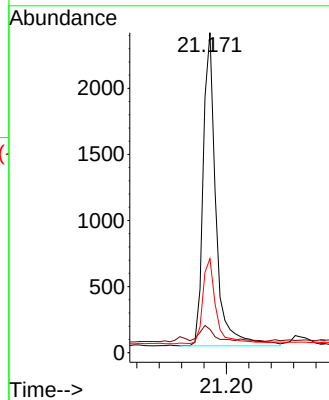
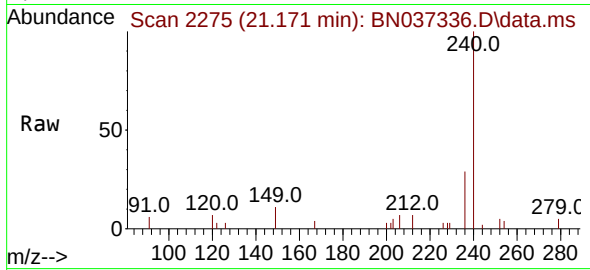
Tgt Ion:240 Resp: 3753

Ion Ratio Lower Upper

240 100

120 7.3 7.5 11.3#

236 29.4 24.9 37.3



#31

Terphenyl-d14

Concen: 0.442 ng

RT: 19.616 min Scan# 2061

Delta R.T. -0.009 min

Lab File: BN037336.D

Acq: 19 Jun 2025 05:18

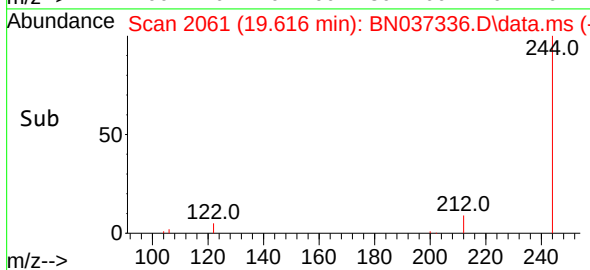
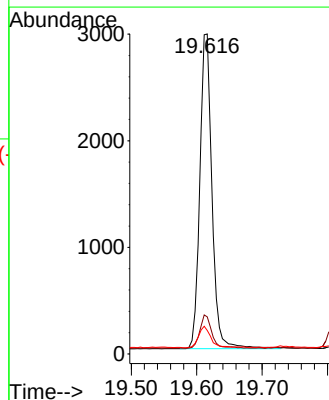
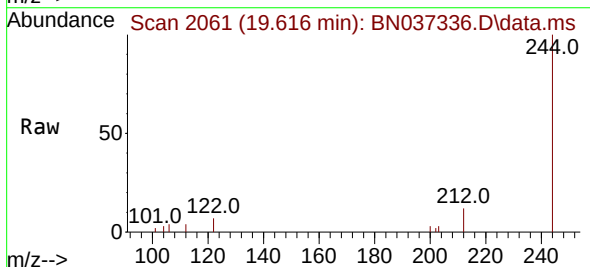
Tgt Ion:244 Resp: 3810

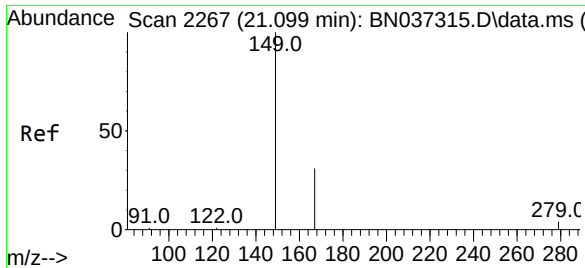
Ion Ratio Lower Upper

244 100

212 11.6 11.1 16.7

122 7.3 7.2 10.8

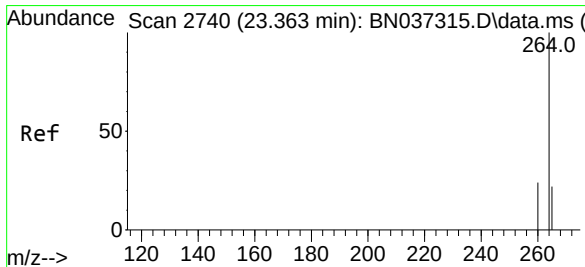
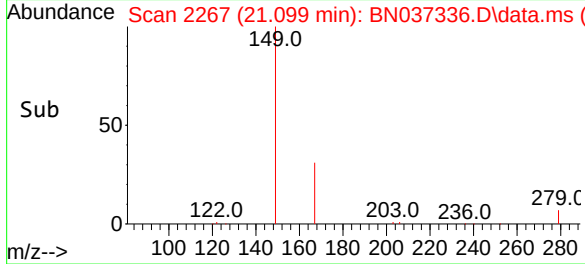
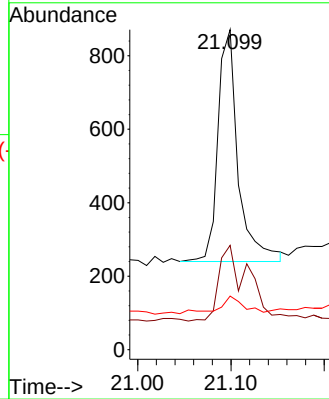
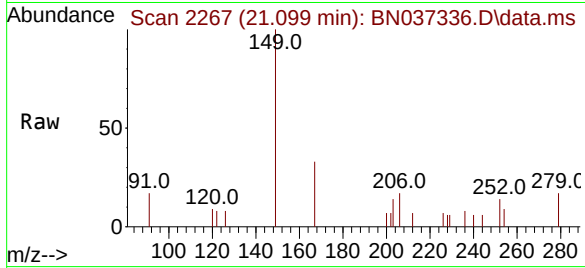




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.191 ng
RT: 21.099 min Scan# 2109
Delta R.T. -0.000 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

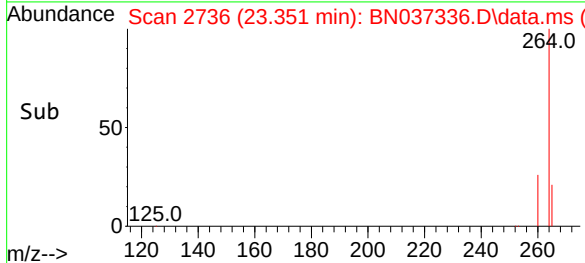
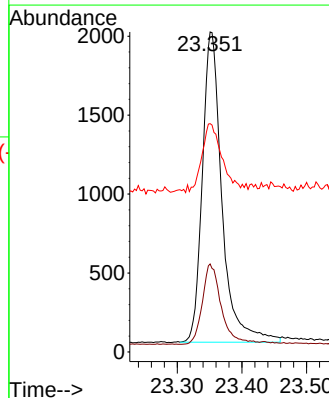
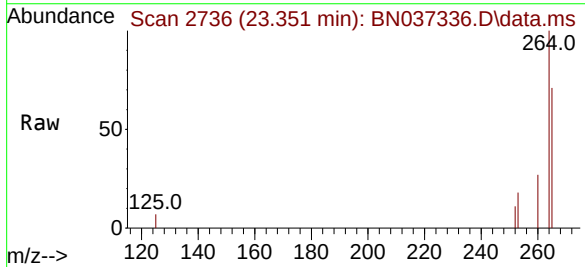
Instrument :
BNA_N
ClientSampleId :
TT163S1-20250613

Tgt Ion:149 Resp: 945
Ion Ratio Lower Upper
149 100
167 46.7 24.6 37.0#
279 9.2 6.5 9.7



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2736
Delta R.T. -0.012 min
Lab File: BN037336.D
Acq: 19 Jun 2025 05:18

Tgt Ion:264 Resp: 4134
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.2
265 71.3 71.4 107.0#





CALIBRATION SUMMARY

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN061925.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Jun 18 18:40:16 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037313.D 0.2 =BN037314.D 0.4 =BN037315.D 0.8 =BN037316.D 1.6 =BN037317.D 3.2 =BN037318.D 5.0 =BN037319.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.422	0.403	0.336	0.344	0.319	0.318	0.357	12.55	
3)	n-Nitrosodimet...	0.478	0.403	0.399	0.423	0.392	0.387	0.414	8.21	
4) S	2-Fluorophenol	0.728	0.755	0.721	0.701	0.751	0.710	0.723	0.727	2.76
5) S	Phenol-d6	0.508	0.618	0.704	0.713	0.800	0.811	0.849	0.715	16.83
6)	bis(2-Chloroet...	0.451	0.517	0.558	0.643	0.712	0.693	0.709	0.612	16.95
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.327	0.262	0.328	0.314	0.368	0.362	0.372	0.333	11.64
9)	Naphthalene	1.023	1.012	1.032	1.010	1.085	1.028	1.055	1.035	2.57
10)	Hexachlorobuta...	0.565	0.542	0.559	0.522	0.541	0.481	0.454	0.524	7.89
11) SURR2	Methylnaphth...	0.582	0.585	0.688	0.639	0.697	0.669	0.692	0.650	7.62
12)	2-Methylnaphth...	0.593	0.695	0.710	0.726	0.802	0.771	0.804	0.729	10.14
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.315	0.274	0.290	0.289	0.318	0.294	0.285	0.295	5.44
15) S	2-Fluorobiphenyl	1.547	1.636	1.764	1.756	1.928	1.835	1.804	1.753	7.22
16)	Acenaphthylene	1.677	1.605	1.625	1.624	1.768	1.728	1.752	1.683	3.98
17)	Acenaphthene	1.102	1.115	1.092	1.071	1.169	1.134	1.139	1.117	2.92
18)	Fluorene	1.455	1.522	1.548	1.564	1.692	1.649	1.656	1.584	5.37
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.110	0.094	0.118	0.134	0.139	0.143	0.123	15.61	
21)	4-Bromophenyl-...	0.329	0.333	0.316	0.320	0.350	0.341	0.334	0.332	3.55
22)	Hexachlorobenzene	0.364	0.377	0.364	0.336	0.354	0.324	0.315	0.348	6.67
23)	Atrazine	0.247	0.262	0.245	0.253	0.275	0.268	0.265	0.259	4.37
24)	Pentachlorophenol	0.196	0.171	0.187	0.205	0.199	0.198	0.193	6.31	
25)	Phenanthrene	1.100	1.077	1.075	1.081	1.186	1.165	1.200	1.126	4.92
26)	Anthracene	0.954	1.000	0.996	1.019	1.118	1.141	1.166	1.056	7.92
27) SURR	Fluoranthene-d10	1.279	1.248	1.320	1.279	1.291	1.234	1.226	1.268	2.65
28)	Fluoranthene	1.584	1.540	1.494	1.576	1.613	1.570	1.574	1.564	2.42
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.497	1.481	1.602	1.395	1.602	1.518	1.570	1.523	4.90
31) S	Terphenyl-d14	0.829	0.875	0.957	0.866	0.997	0.944	0.956	0.918	6.66
32)	Benzo(a)anthra...	1.066	1.166	1.197	1.305	1.429	1.395	1.460	1.288	11.60
33)	Chrysene	1.845	1.729	1.648	1.539	1.696	1.528	1.524	1.644	7.41
34)	Bis(2-ethylhex...	0.570	0.536	0.501	0.524	0.502	0.537	0.528	4.89	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN061925.M

36)	Indeno(1,2,3-c...	1.366	1.552	1.601	1.655	1.845	1.893	1.863	1.682	11.58
37)	Benzo(b)fluora...	1.268	1.244	1.290	1.382	1.543	1.499	1.554	1.397	9.60
38)	Benzo(k)fluora...	1.429	1.439	1.528	1.525	1.627	1.587	1.608	1.535	5.13
39) C	Benzo(a)pyrene	1.215	1.223	1.244	1.271	1.372	1.360	1.371	1.294	5.54
40)	Dibenzo(a,h)an...	1.180	1.246	1.241	1.286	1.498	1.504	1.504	1.351	10.70
41)	Benzo(g,h,i)pe...	1.468	1.470	1.481	1.486	1.661	1.625	1.604	1.542	5.45

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037313.D
 Acq On : 18 Jun 2025 14:06
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025

Quant Time: Jun 18 18:31:56 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 18 18:27:59 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	709	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1443	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1078	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2152	0.400	ng	# 0.01
29) Chrysene-d12	21.179	240	2320	0.400	ng	0.00
35) Perylene-d12	23.362	264	2618	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	129	0.100	ng	0.00
5) Phenol-d6	6.759	99	90	0.071	ng	0.00
8) Nitrobenzene-d5	8.738	82	118m	0.100	ng	0.01
11) 2-Methylnaphthalene-d10	11.970	152	210	0.090	ng	0.02
14) 2,4,6-Tribromophenol	15.742	330	85m	0.110	ng	0.02
15) 2-Fluorobiphenyl	12.858	172	417	0.088	ng	0.01
27) Fluoranthene-d10	19.021	212	688	0.101	ng	0.00
31) Terphenyl-d14	19.635	244	481	0.090	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.011	93	80m	0.074	ng	
9) Naphthalene	10.404	128	369	0.099	ng	# 56
10) Hexachlorobutadiene	10.692	225	204	0.108	ng	# 99
12) 2-Methylnaphthalene	12.046	142	214	0.081	ng	# 89
16) Acenaphthylene	13.946	152	452	0.100	ng	97
17) Acenaphthene	14.288	154	297	0.099	ng	94
18) Fluorene	15.293	166	392	0.092	ng	94
21) 4-Bromophenyl-phenylether	16.189	248	177	0.099	ng	# 88
22) Hexachlorobenzene	16.288	284	196	0.105	ng	95
23) Atrazine	16.475	200	133	0.095	ng	# 63
25) Phenanthrene	17.021	178	592	0.098	ng	98
26) Anthracene	17.120	178	513	0.090	ng	97
28) Fluoranthene	19.049	202	852	0.101	ng	99
30) Pyrene	19.412	202	868	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	618	0.083	ng	# 83
33) Chrysene	21.215	228	1070	0.112	ng	# 89
36) Indeno(1,2,3-cd)pyrene	25.564	276	894	0.081	ng	# 94
37) Benzo(b)fluoranthene	22.713	252	830	0.091	ng	# 60
38) Benzo(k)fluoranthene	22.754	252	935	0.093	ng	# 62
39) Benzo(a)pyrene	23.269	252	795	0.094	ng	# 53
40) Dibenzo(a,h)anthracene	25.590	278	772m	0.088	ng	
41) Benzo(g,h,i)perylene	26.222	276	961	0.095	ng	# 78

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037313.D
Acq On : 18 Jun 2025 14:06
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

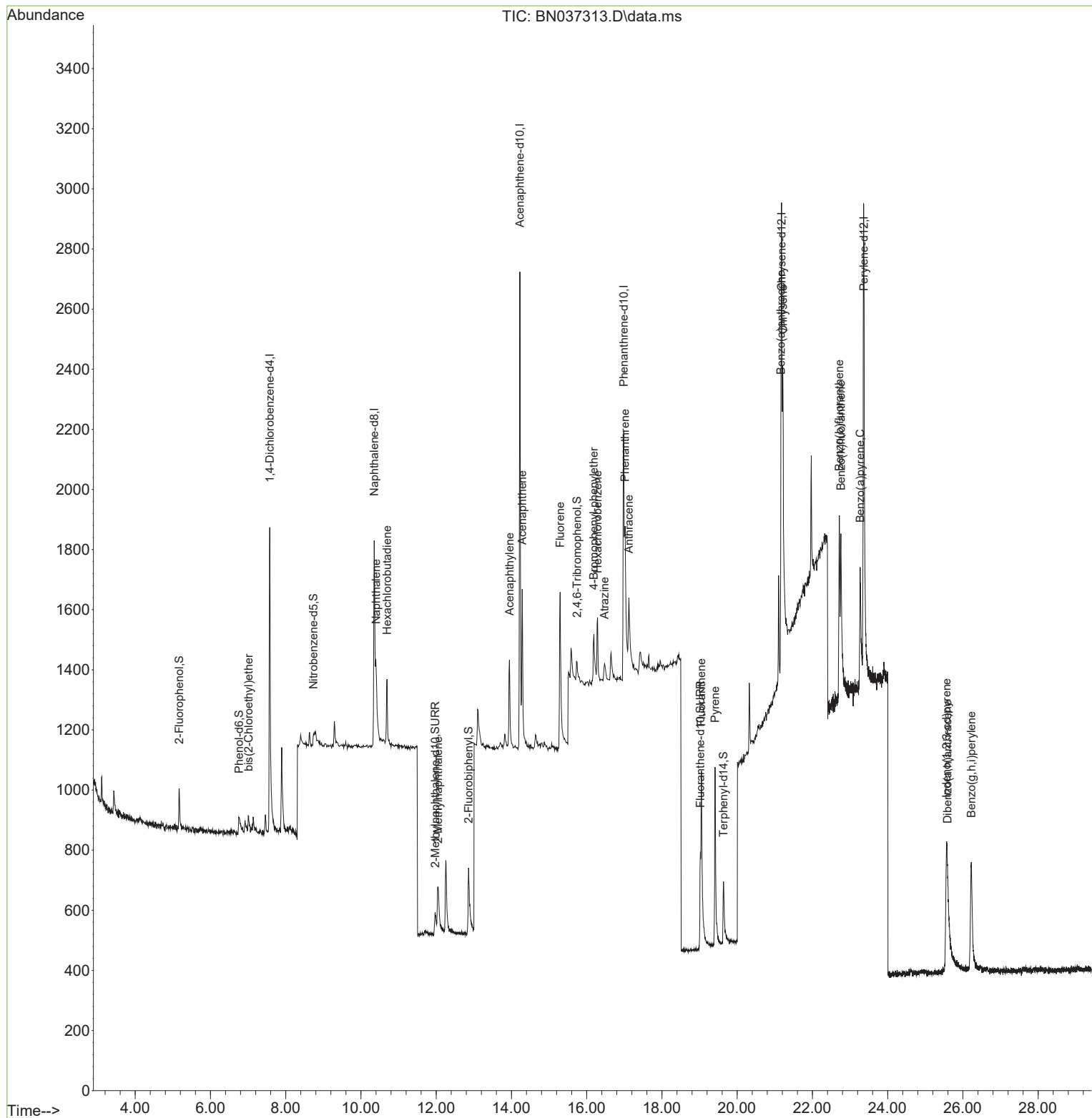
Manual Integrations

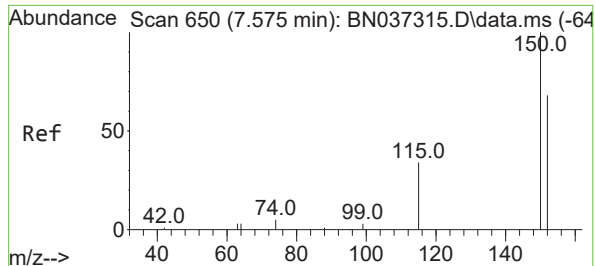
APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025

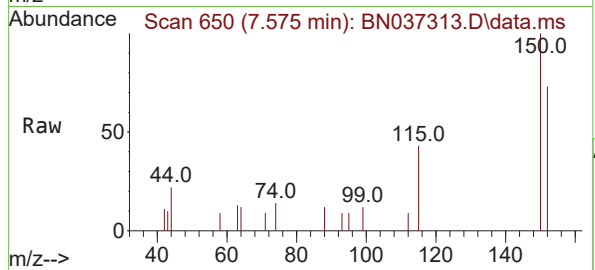
Quant Time: Jun 18 18:31:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 650
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

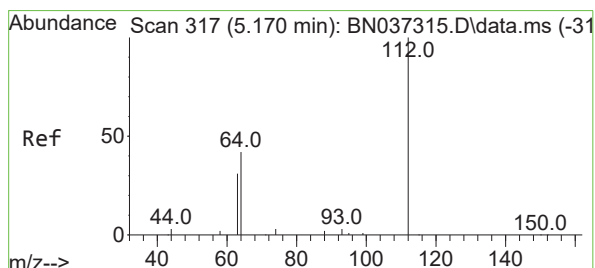
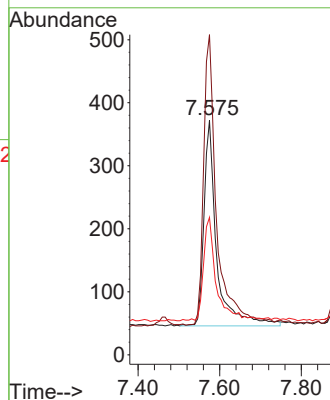
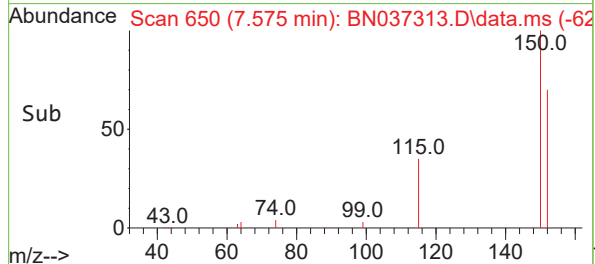
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 709
Ion Ratio Lower Upper
152 100
150 136.6 112.7 169.1
115 58.6 45.9 68.9

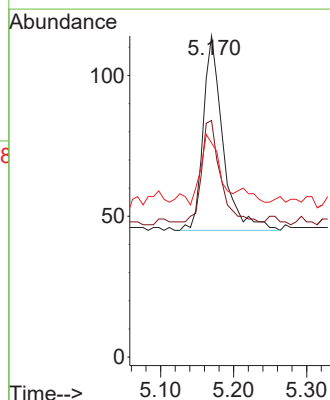
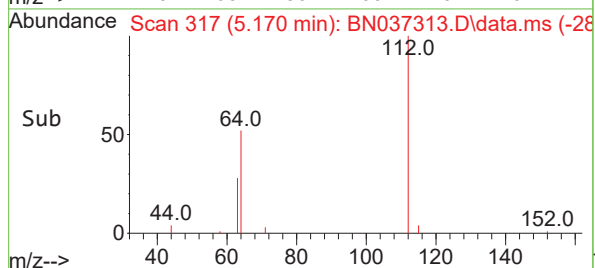
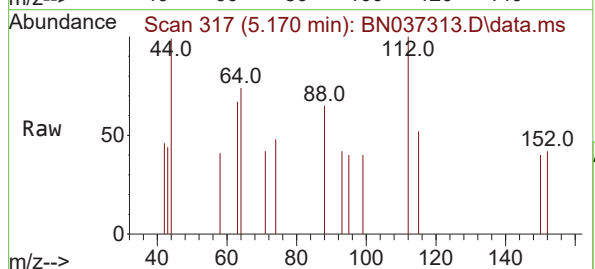
Manual Integrations
APPROVED

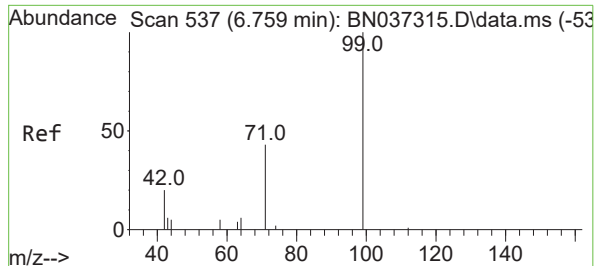
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

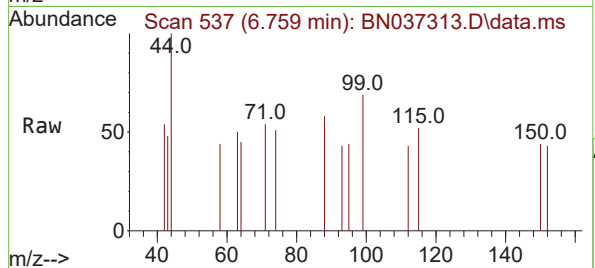
Tgt Ion:112 Resp: 129
Ion Ratio Lower Upper
112 100
64 53.5 38.7 58.1
63 34.1 26.4 39.6





#5
Phenol-d6
Concen: 0.071 ng
RT: 6.759 min Scan# 537
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

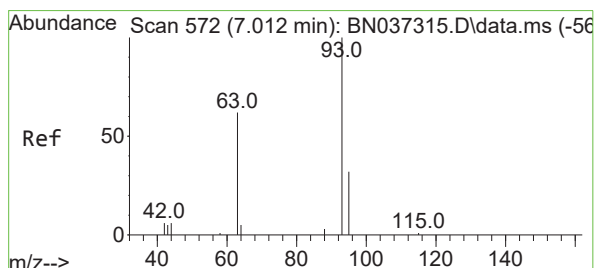
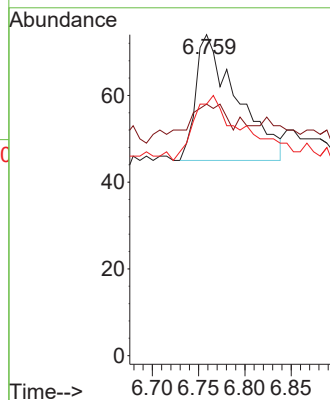
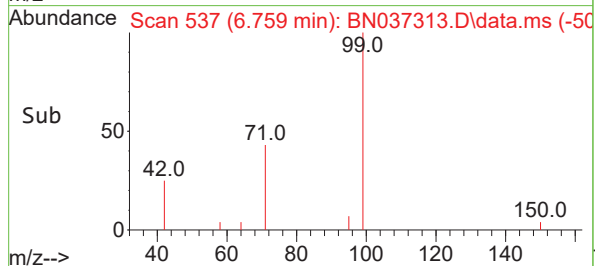
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 99 Resp: 90
Ion Ratio Lower Upper
99 100
42 32.2 19.8 29.8
71 63.3 42.6 64.0

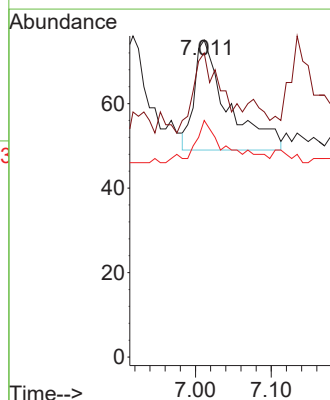
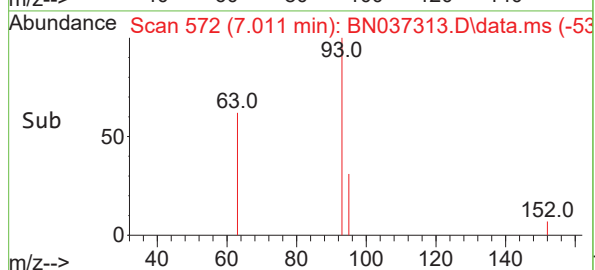
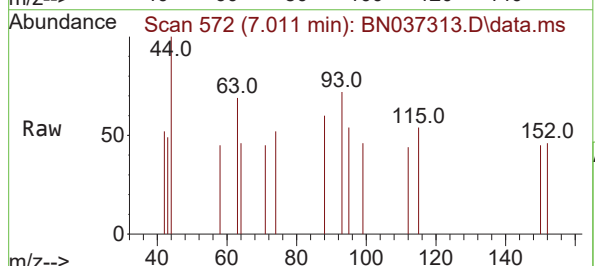
Manual Integrations
APPROVED

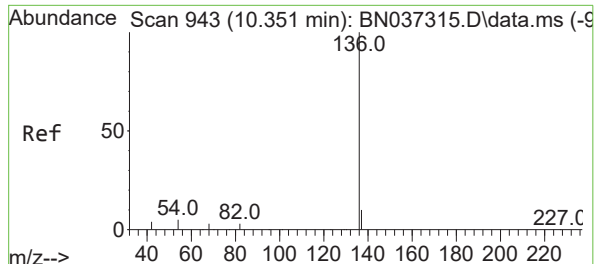
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.074 ng m
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion: 93 Resp: 80
Ion Ratio Lower Upper
93 100
63 63.7 53.2 79.8
95 35.0 27.3 40.9





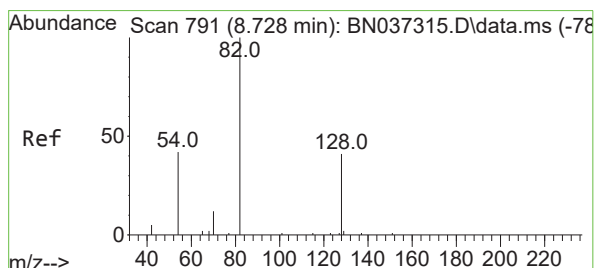
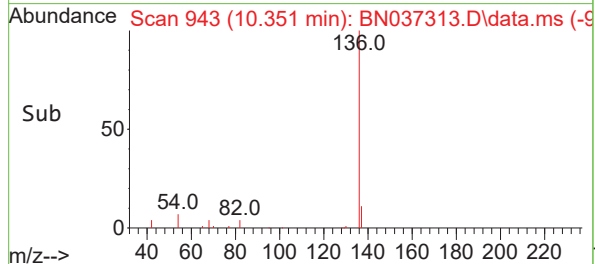
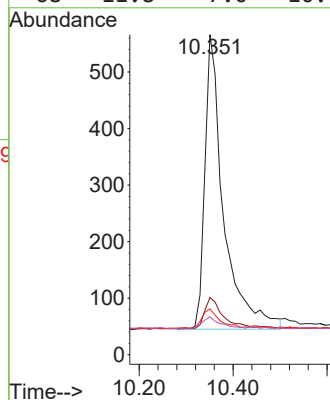
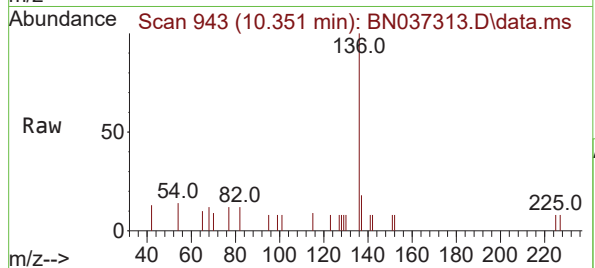
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 144
Ion Ratio Lower Upper
136 100
137 17.8 12.2 18.2
54 14.3 8.8 13.2
68 11.8 7.0 10.4#

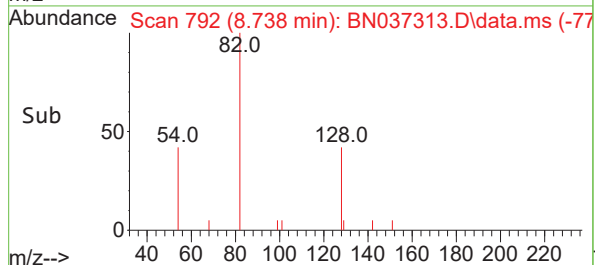
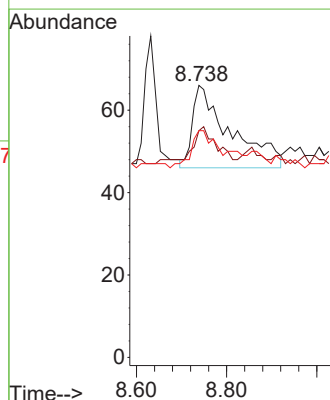
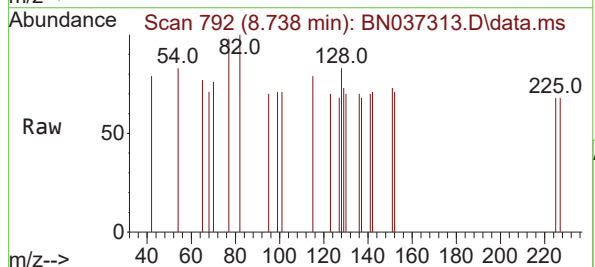
Manual Integrations
APPROVED

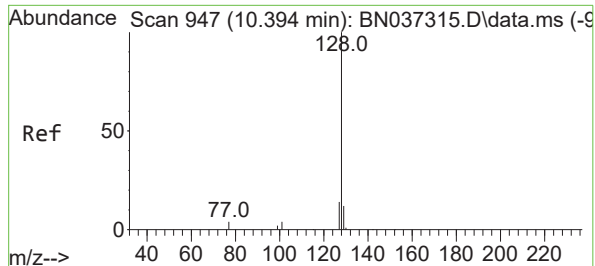
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#8
Nitrobenzene-d5
Concen: 0.100 ng m
RT: 8.738 min Scan# 792
Delta R.T. 0.010 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion: 82 Resp: 118
Ion Ratio Lower Upper
82 100
128 83.3 42.5 63.7#
54 83.3 43.2 64.8#





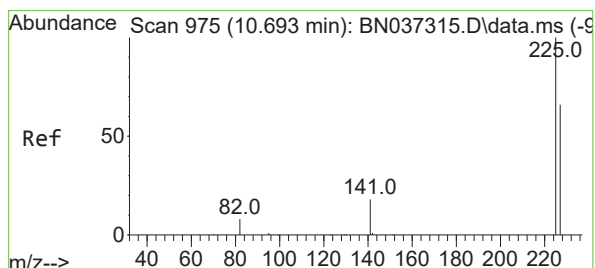
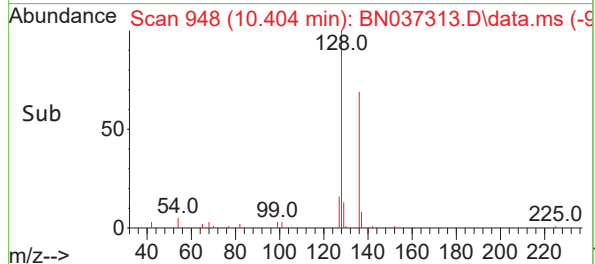
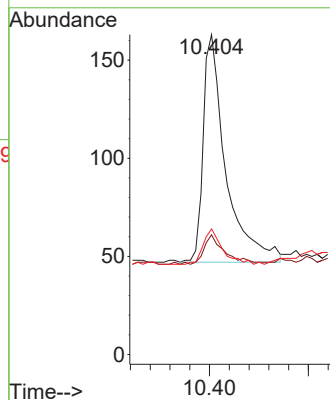
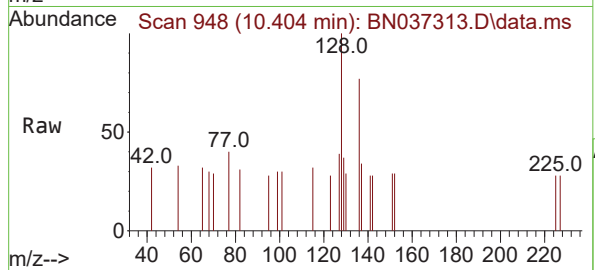
#9
Naphthalene
Concen: 0.099 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.010 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 369
Ion Ratio Lower Upper
128 100
129 37.4 14.0 21.0
127 39.3 15.8 23.8

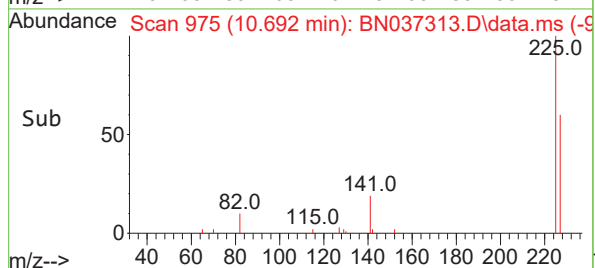
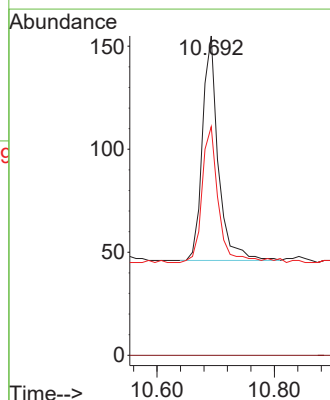
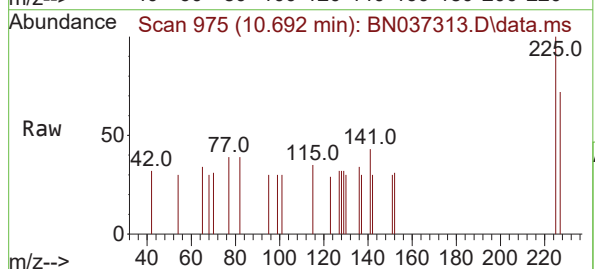
Manual Integrations
APPROVED

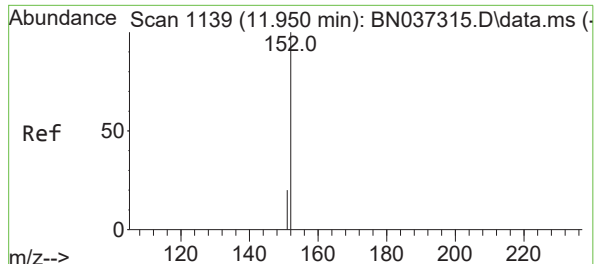
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#10
Hexachlorobutadiene
Concen: 0.108 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

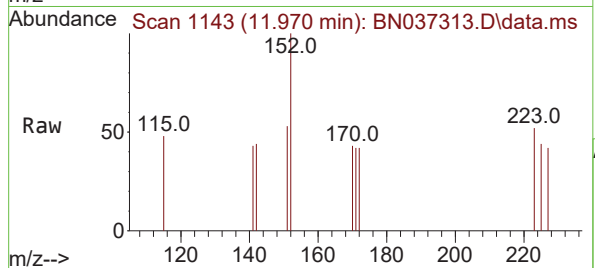
Tgt Ion:225 Resp: 204
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.3 50.3 75.5





#11
2-Methylnaphthalene-d10
Concen: 0.090 ng
RT: 11.970 min Scan# 1143
Delta R.T. 0.020 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

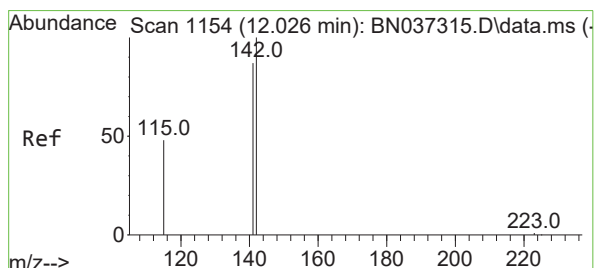
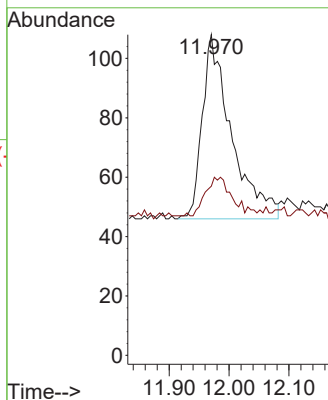
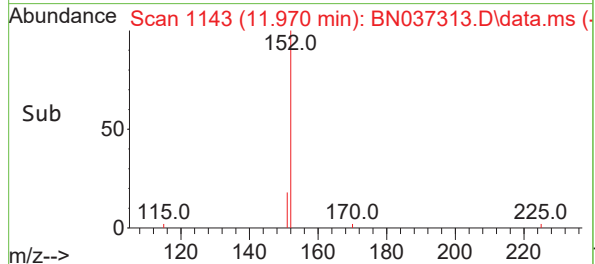
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



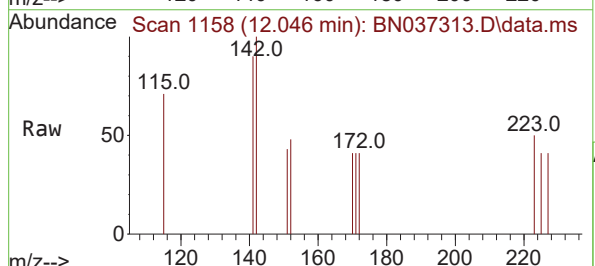
Tgt Ion:152 Resp: 210
Ion Ratio Lower Upper
152 100
151 19.0 17.4 26.0

Manual Integrations
APPROVED

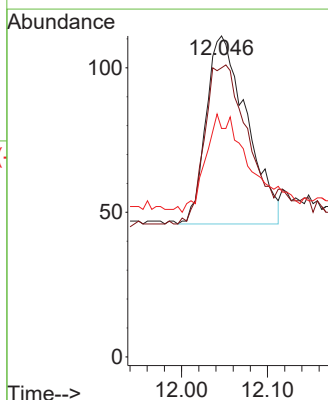
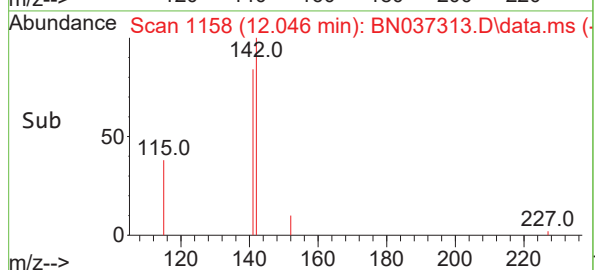
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

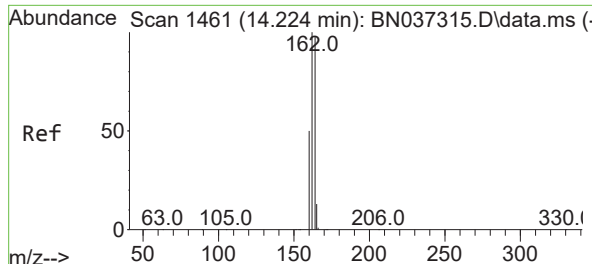


#12
2-Methylnaphthalene
Concen: 0.081 ng
RT: 12.046 min Scan# 1158
Delta R.T. 0.020 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06



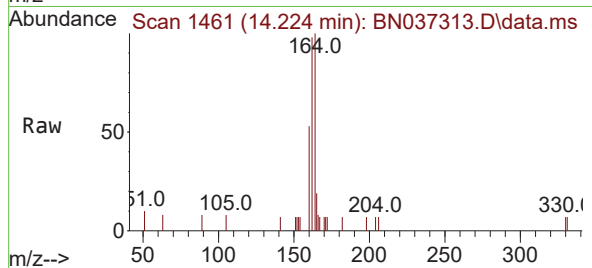
Tgt Ion:142 Resp: 214
Ion Ratio Lower Upper
142 100
141 90.1 70.2 105.2
115 71.2 43.0 64.4#





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

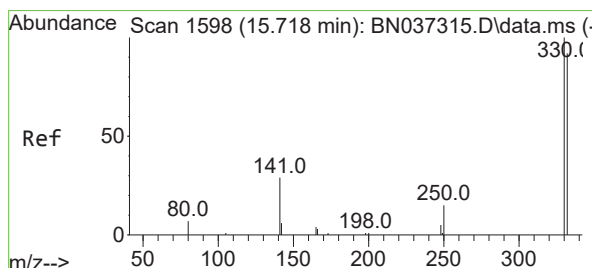
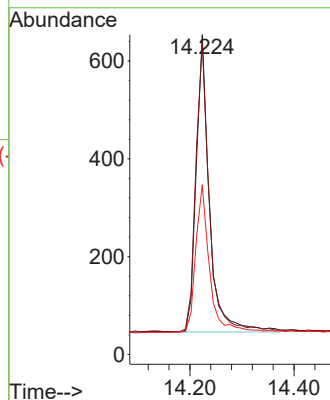
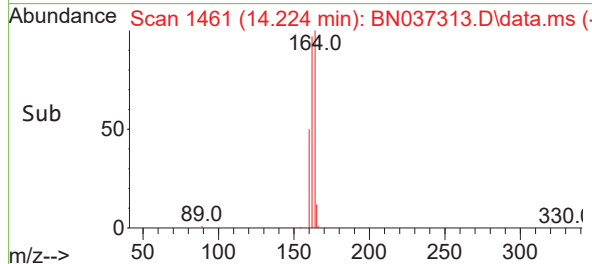
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



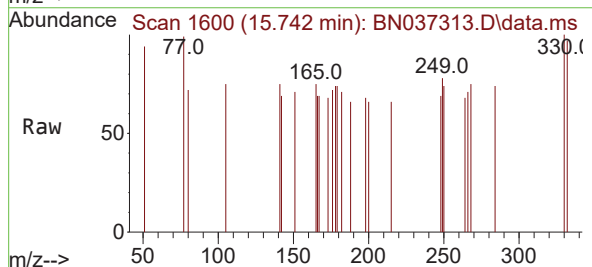
Tgt Ion:164 Resp: 1078
Ion Ratio Lower Upper
164 100
162 97.6 81.5 122.3
160 53.1 43.0 64.4

Manual Integrations
APPROVED

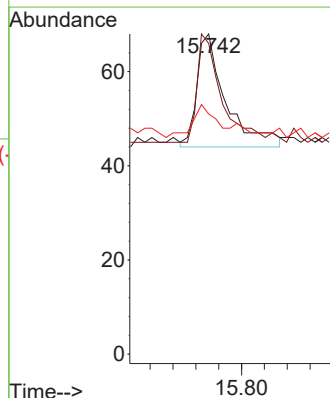
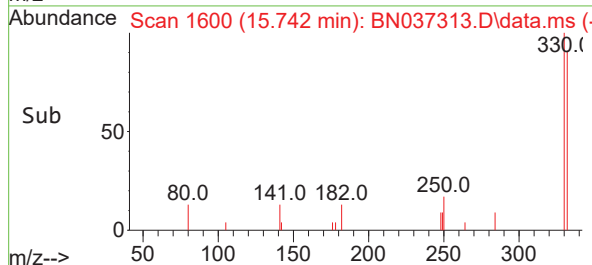
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

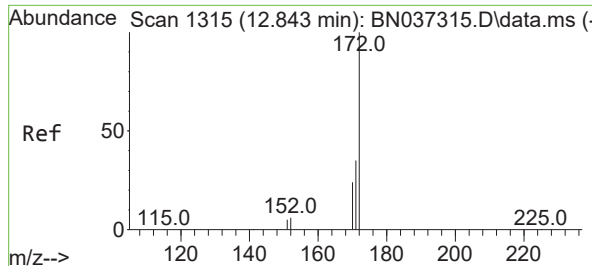


#14
2,4,6-Tribromophenol
Concen: 0.110 ng m
RT: 15.742 min Scan# 1600
Delta R.T. 0.025 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06



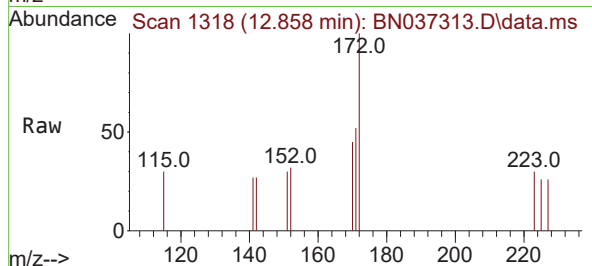
Tgt Ion:330 Resp: 85
Ion Ratio Lower Upper
330 100
332 81.2 78.4 117.6
141 23.5 24.4 36.6#





#15
2-Fluorobiphenyl
Concen: 0.088 ng
RT: 12.858 min Scan# 1318
Delta R.T. 0.015 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

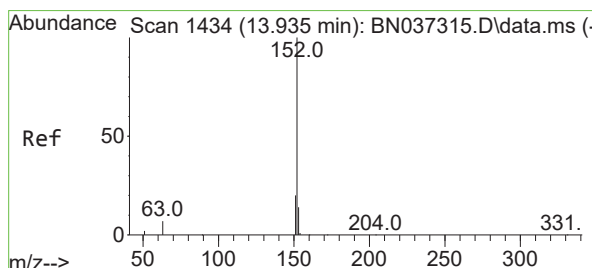
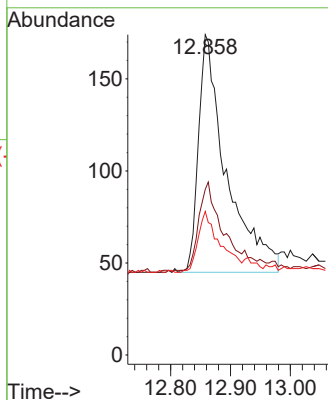
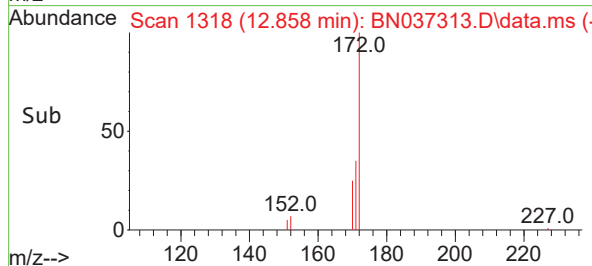
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:172 Resp: 41
Ion Ratio Lower Upper
172 100
171 51.7 30.8 46.2
170 44.8 21.9 32.9

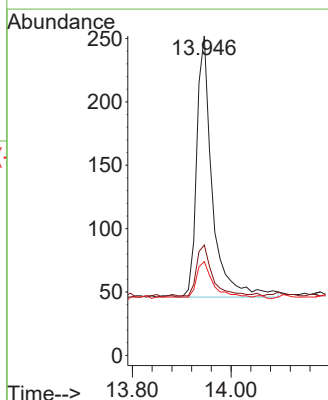
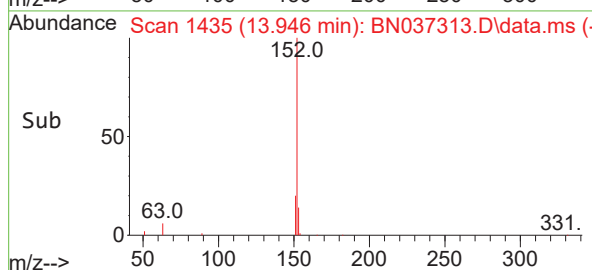
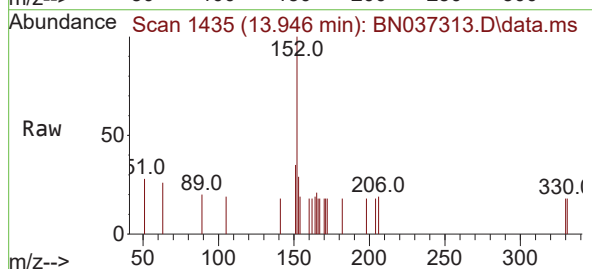
Manual Integrations
APPROVED

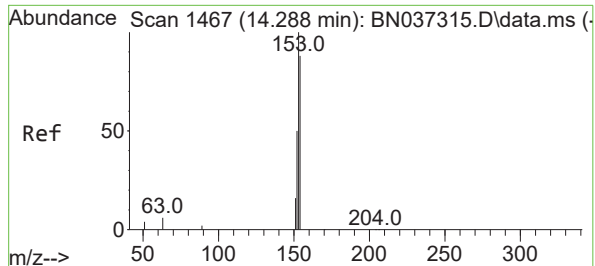
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#16
Acenaphthylene
Concen: 0.100 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.010 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

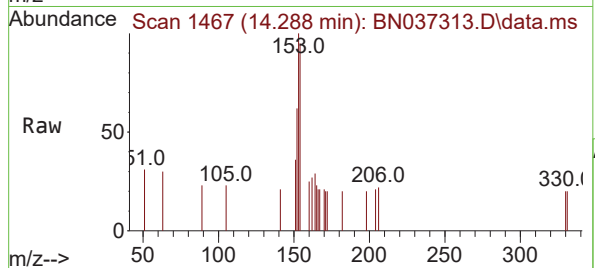
Tgt Ion:152 Resp: 452
Ion Ratio Lower Upper
152 100
151 19.2 16.6 24.8
153 13.7 10.2 15.2





#17
Acenaphthene
Concen: 0.099 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

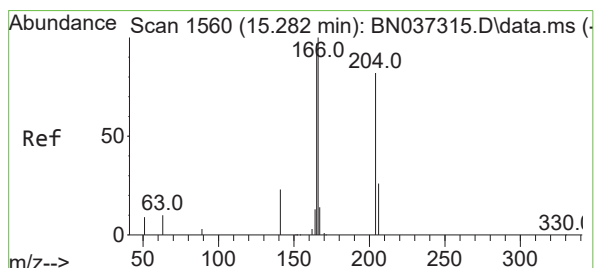
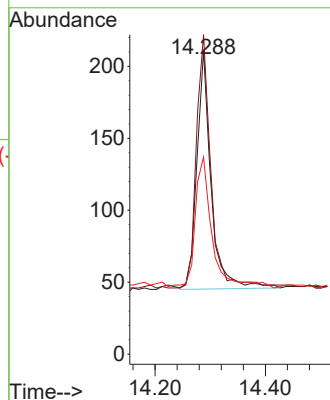
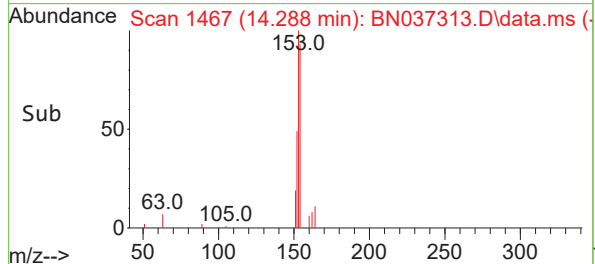
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



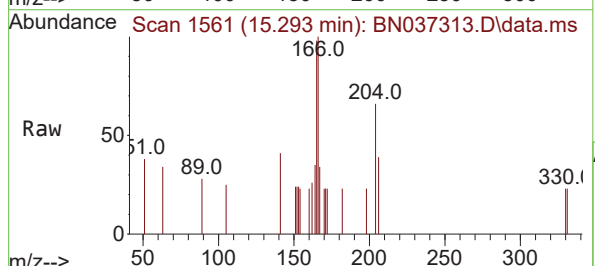
Tgt Ion:154 Resp: 29
Ion Ratio Lower Upper
154 100
153 108.4 93.1 139.7
152 64.3 48.6 73.0

Manual Integrations
APPROVED

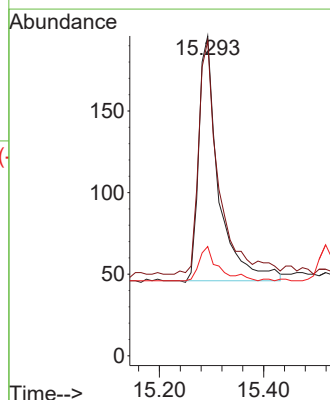
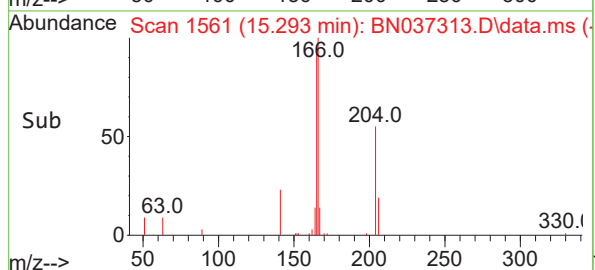
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

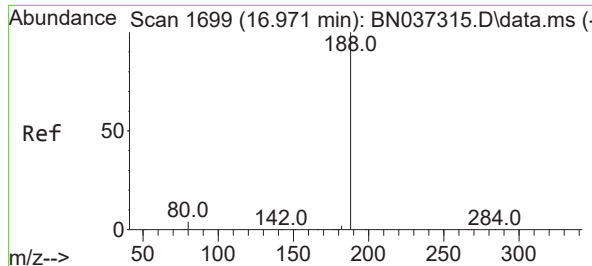


#18
Fluorene
Concen: 0.092 ng
RT: 15.293 min Scan# 1561
Delta R.T. 0.010 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06



Tgt Ion:166 Resp: 392
Ion Ratio Lower Upper
166 100
165 92.6 79.5 119.3
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1699

Delta R.T. 0.012 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

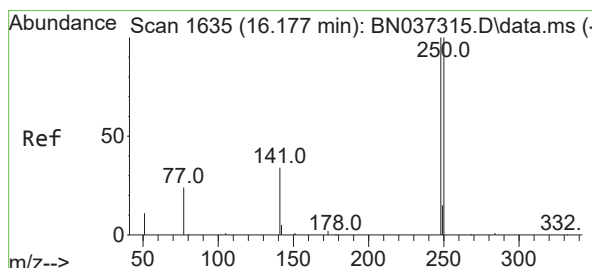
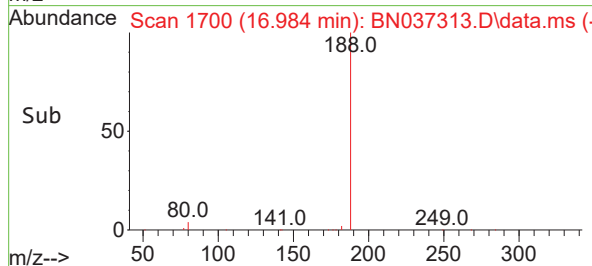
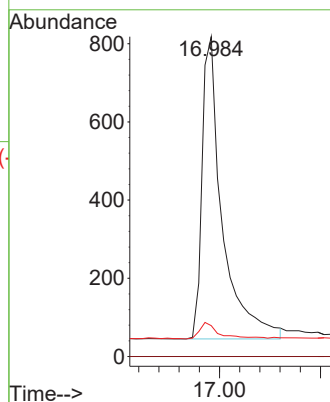
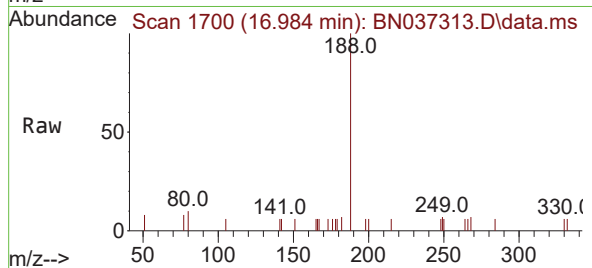
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:	188	Resp:	215
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.7	6.2	9.2

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

#21

4-Bromophenyl-phenylether

Concen: 0.099 ng

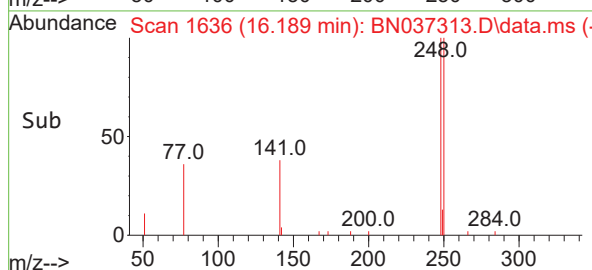
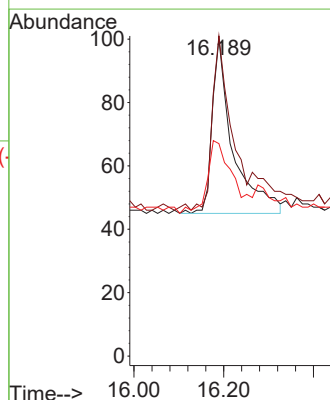
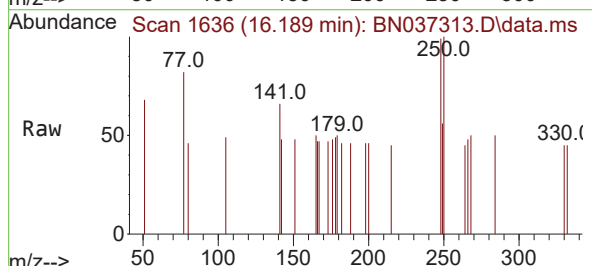
RT: 16.189 min Scan# 1636

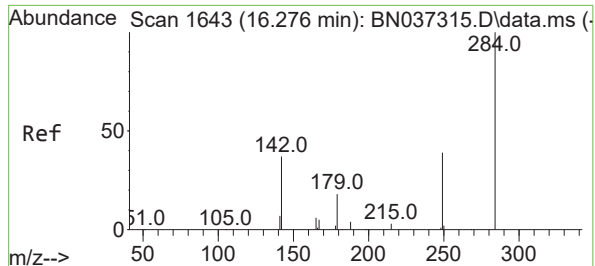
Delta R.T. 0.012 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Tgt Ion:	248	Resp:	177
Ion Ratio	Lower	Upper	
248	100		
250	101.0	80.4	120.6
141	67.0	33.3	49.9





#22

Hexachlorobenzene

Concen: 0.105 ng

RT: 16.288 min Scan# 1644

Delta R.T. 0.012 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

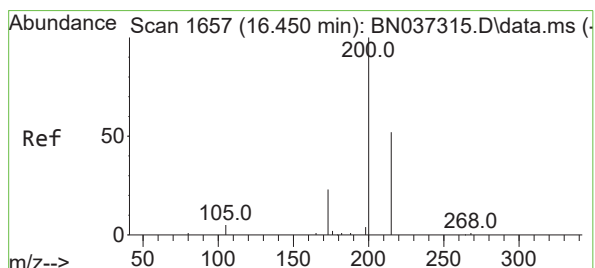
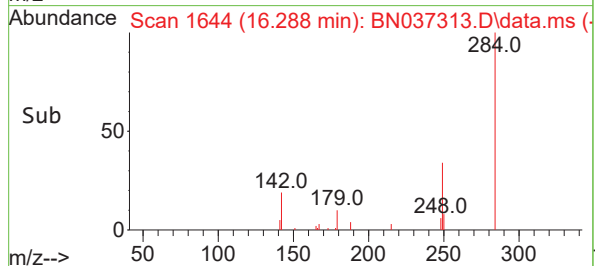
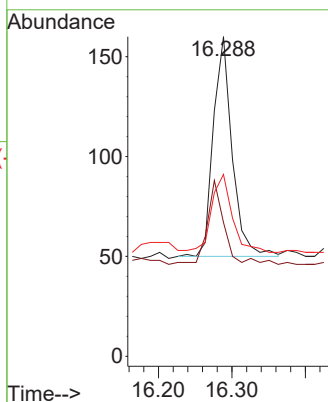
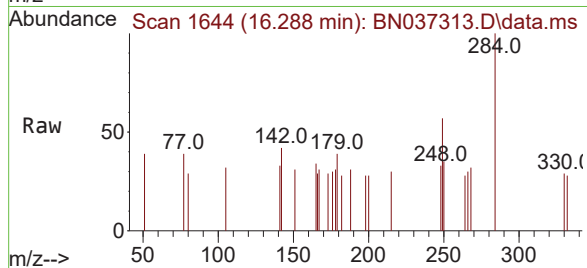
Tgt Ion:	284	Resp:	190
Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	40.8	28.8	43.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#23

Atrazine

Concen: 0.095 ng

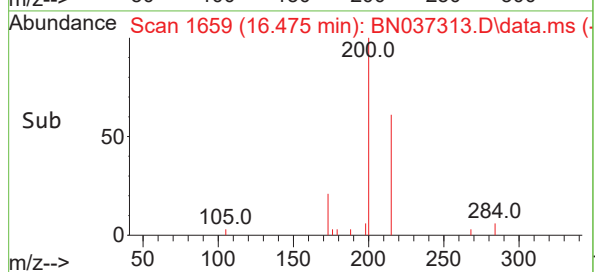
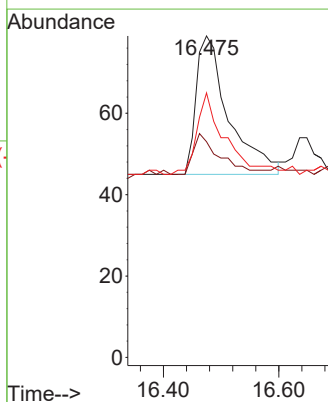
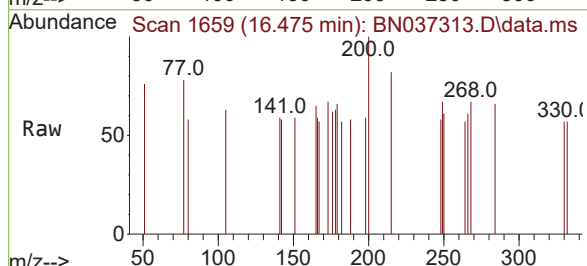
RT: 16.475 min Scan# 1659

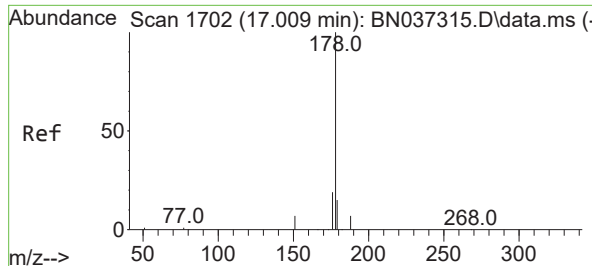
Delta R.T. 0.025 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

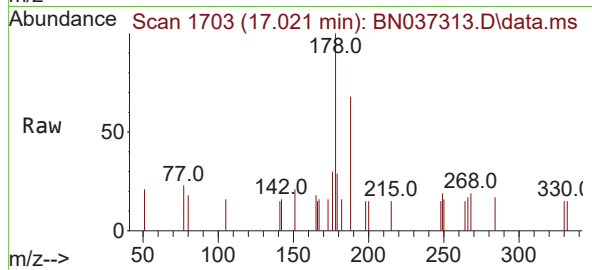
Tgt Ion:	200	Resp:	133
Ion	Ratio	Lower	Upper
200	100		
173	67.1	29.2	43.8#
215	82.3	48.8	73.2#





#25
Phenanthrene
Concen: 0.098 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

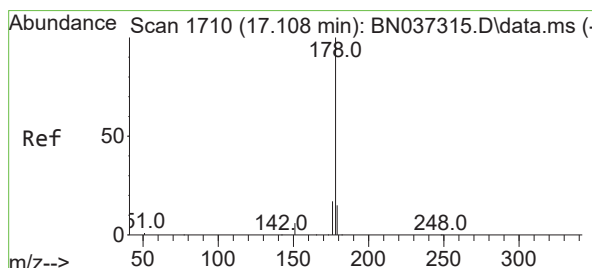
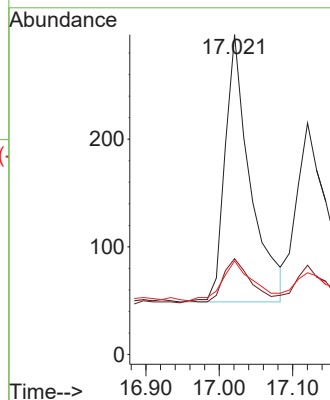
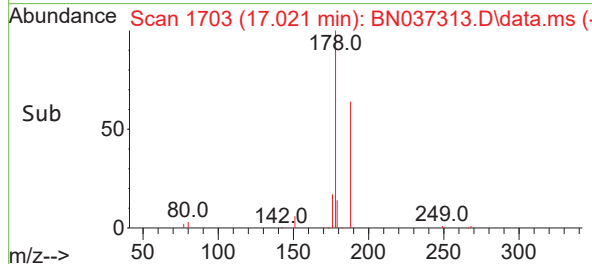
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:178 Resp: 592
Ion Ratio Lower Upper
178 100
176 18.4 15.2 22.8
179 17.6 12.9 19.3

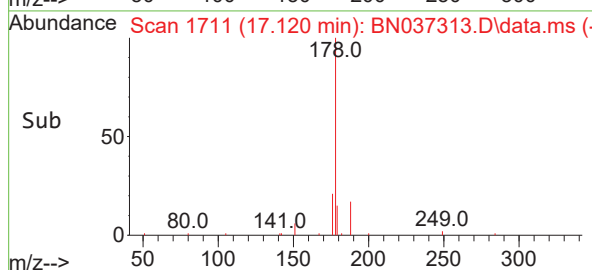
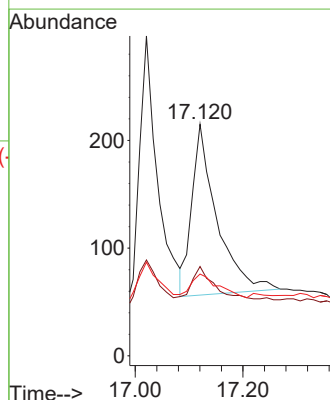
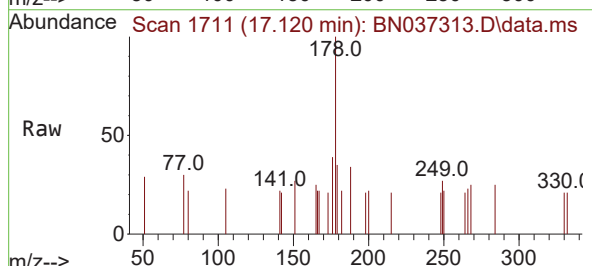
Manual Integrations
APPROVED

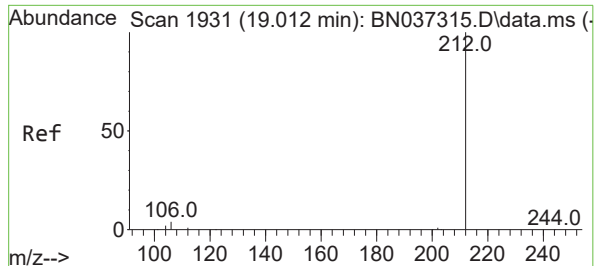
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#26
Anthracene
Concen: 0.090 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.012 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:178 Resp: 513
Ion Ratio Lower Upper
178 100
176 19.9 14.7 22.1
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.101 ng

RT: 19.021 min Scan# 1933

Delta R.T. 0.009 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

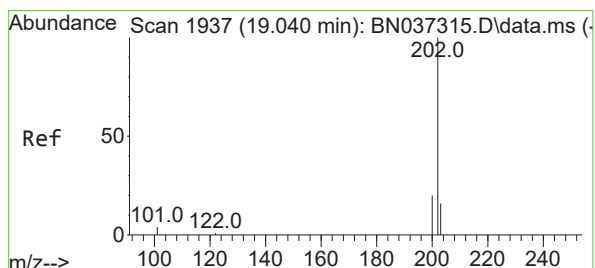
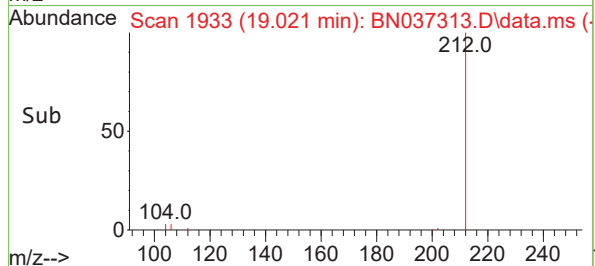
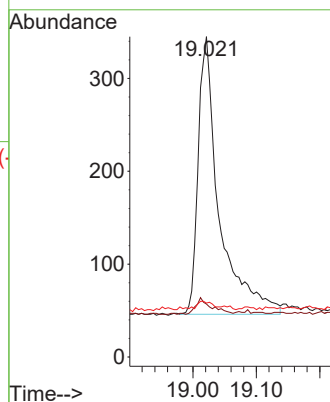
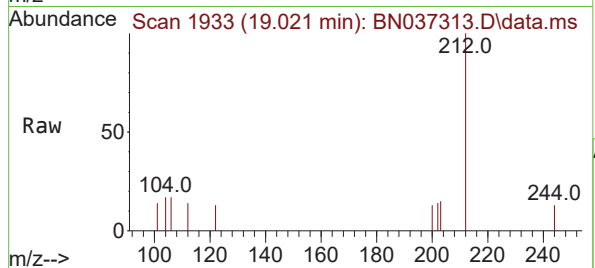
ClientSampleId :

SSTDICC0.1

Tgt Ion:	212	Resp:	68
Ion	Ratio	Lower	Upper
212	100		
106	4.5	3.0	4.4
104	1.9	2.0	3.0

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#28

Fluoranthene

Concen: 0.101 ng

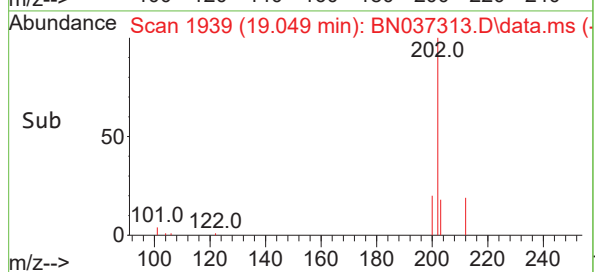
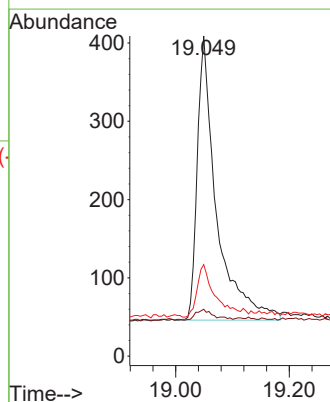
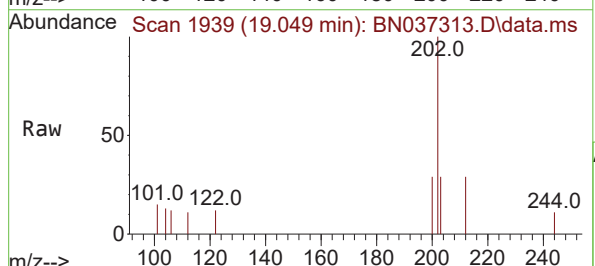
RT: 19.049 min Scan# 1939

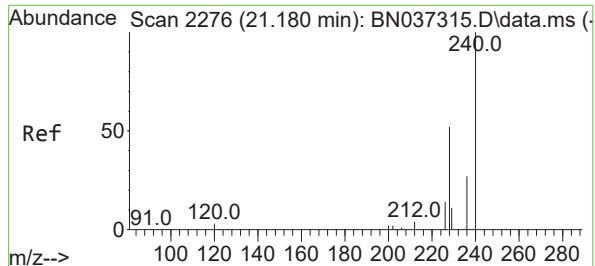
Delta R.T. 0.009 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Tgt Ion:	202	Resp:	852
Ion	Ratio	Lower	Upper
202	100		
101	3.5	3.0	4.6
203	16.9	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

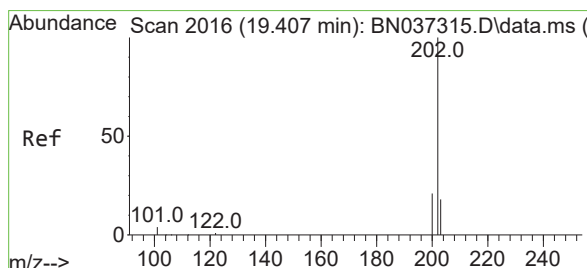
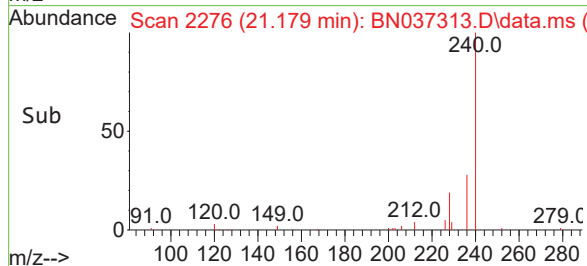
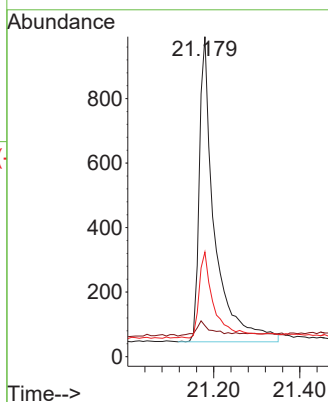
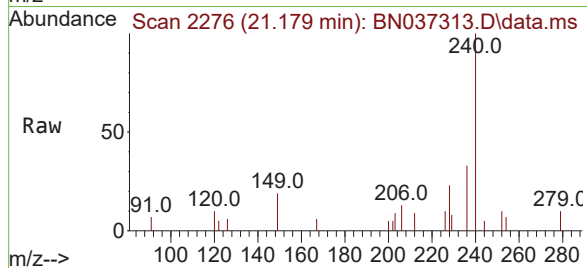
ClientSampleId :

SSTDICC0.1

Tgt Ion:	240	Resp:	2320
Ion Ratio	Lower	Upper	
240	100		
120	9.7	7.5	11.3
236	32.7	24.9	37.3

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#30

Pyrene

Concen: 0.098 ng

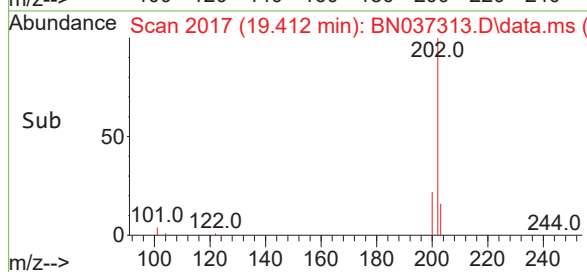
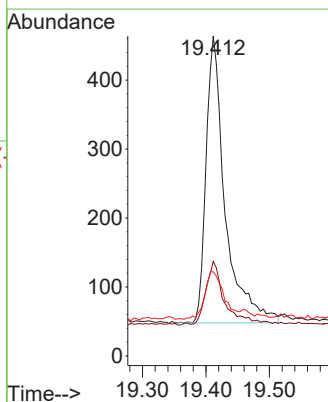
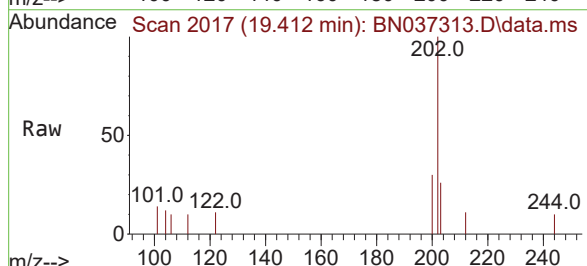
RT: 19.412 min Scan# 2017

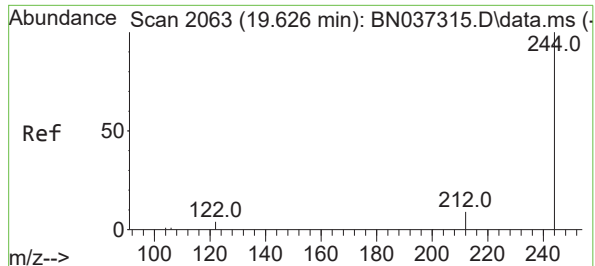
Delta R.T. 0.004 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

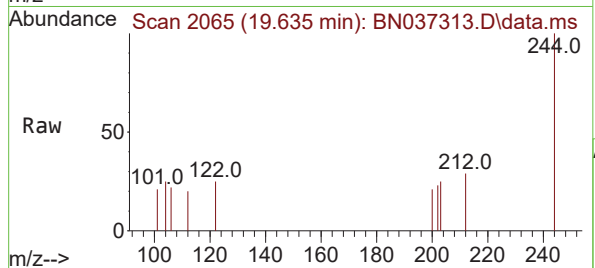
Tgt Ion:	202	Resp:	868
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.8	25.2
203	16.8	14.5	21.7





#31
Terphenyl-d14
Concen: 0.090 ng
RT: 19.635 min Scan# 2065
Delta R.T. 0.009 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

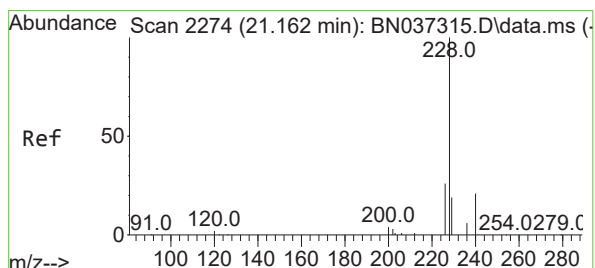
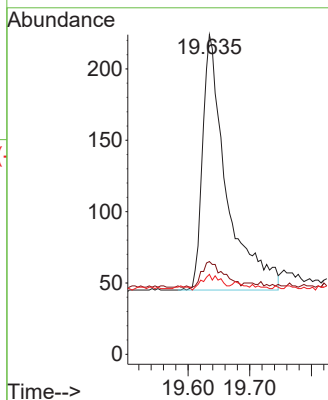
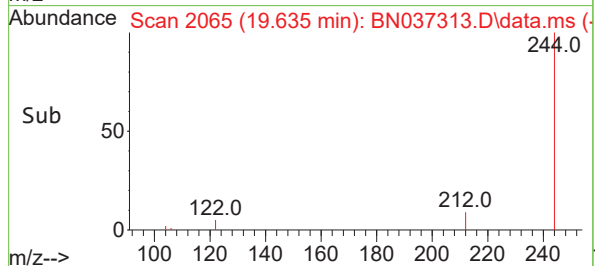
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:244 Resp: 48
Ion Ratio Lower Upper
244 100
212 29.0 11.1 16.7
122 25.0 7.2 10.8

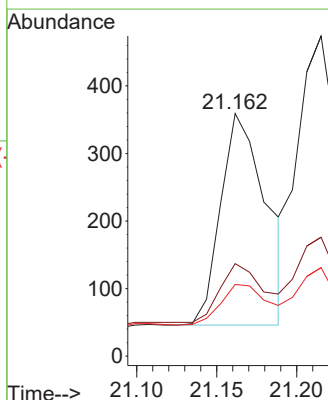
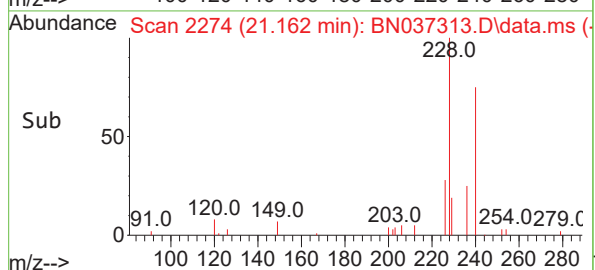
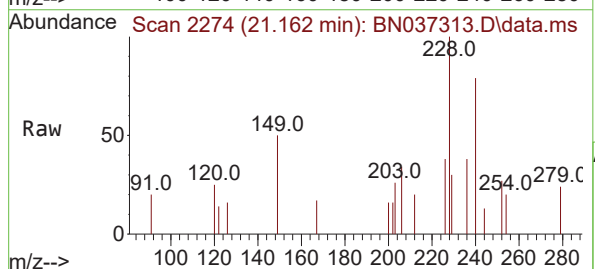
Manual Integrations
APPROVED

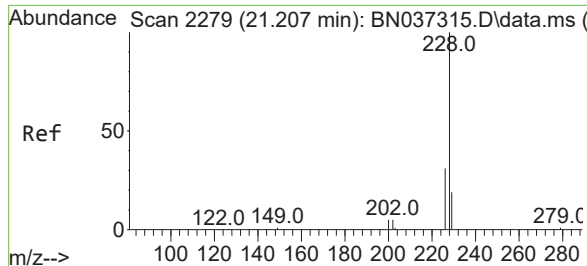
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#32
Benzo(a)anthracene
Concen: 0.083 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

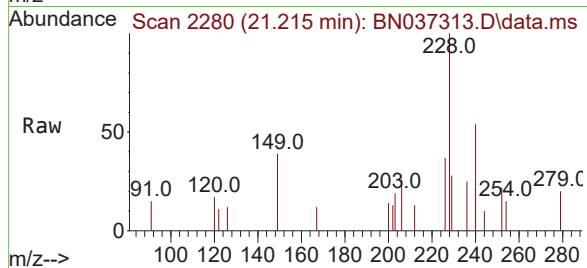
Tgt Ion:228 Resp: 618
Ion Ratio Lower Upper
228 100
226 38.2 23.0 34.4#
229 29.5 17.4 26.0#





#33
Chrysene
Concen: 0.112 ng
RT: 21.215 min Scan# 21
Delta R.T. 0.009 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

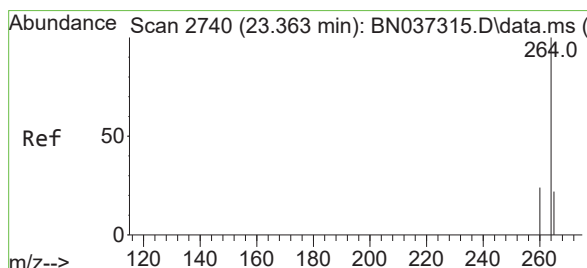
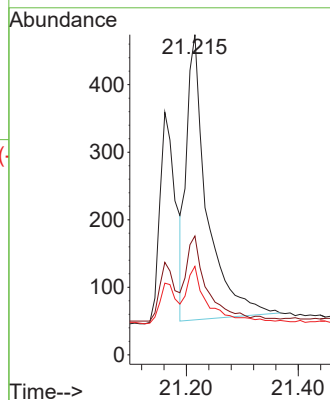
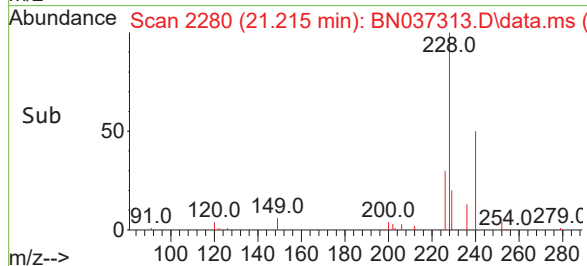
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 228 Resp: 1070
Ion Ratio Lower Upper
228 100
226 37.1 25.4 38.2
229 27.6 17.3 25.9

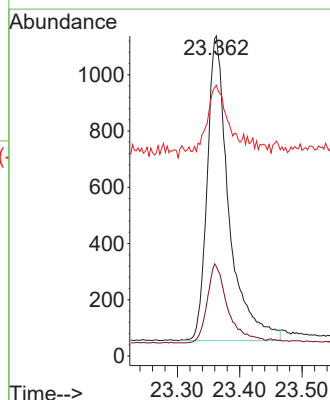
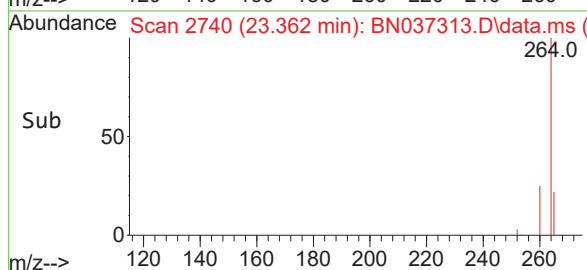
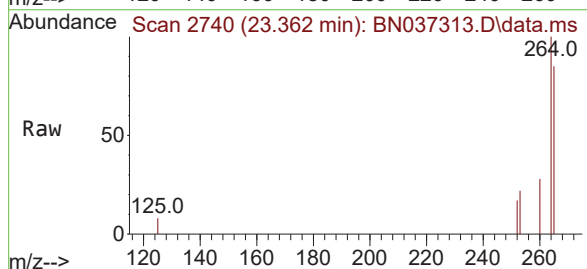
Manual Integrations
APPROVED

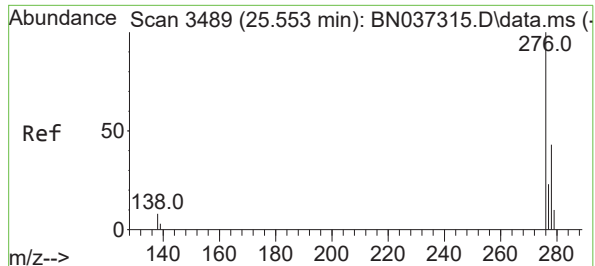
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.362 min Scan# 2740
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion: 264 Resp: 2618
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 84.6 71.4 107.0





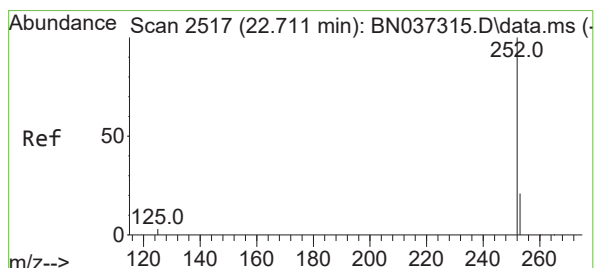
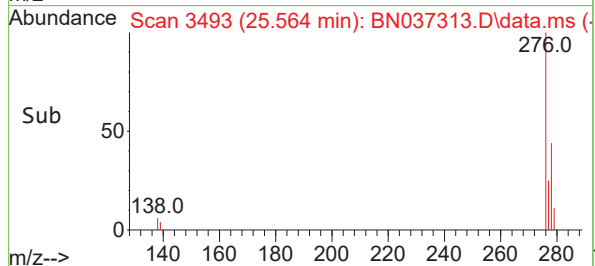
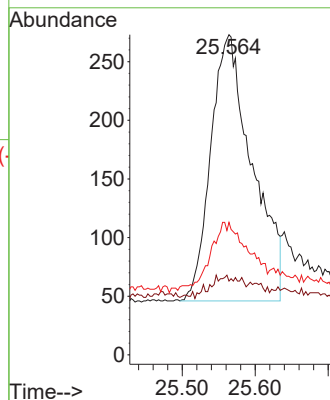
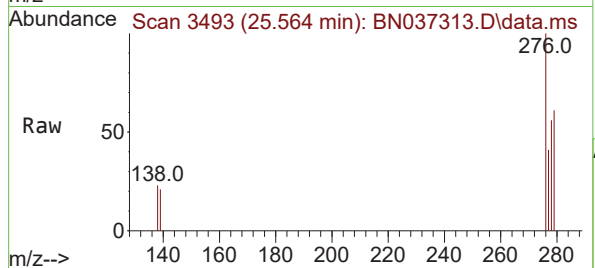
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.081 ng
RT: 25.564 min Scan# 3489
Delta R.T. 0.011 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 894
Ion Ratio Lower Upper
276 100
138 0.8 2.2 3.2
277 24.2 17.1 25.7

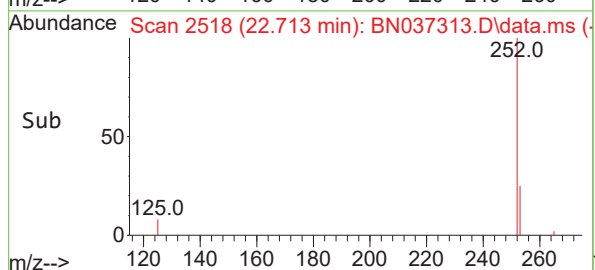
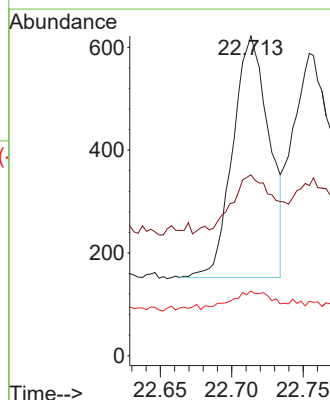
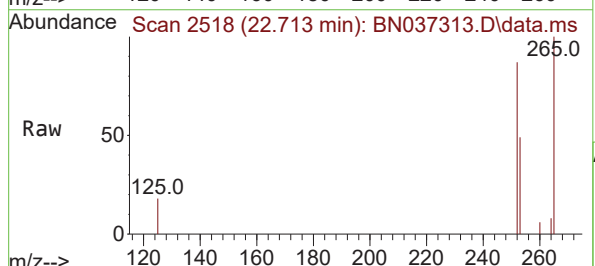
Manual Integrations
APPROVED

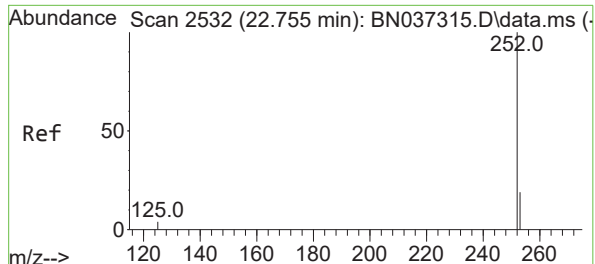
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#37
Benzo(b)fluoranthene
Concen: 0.091 ng
RT: 22.713 min Scan# 2518
Delta R.T. 0.003 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:252 Resp: 830
Ion Ratio Lower Upper
252 100
253 56.6 26.6 40.0#
125 20.3 6.1 9.1#





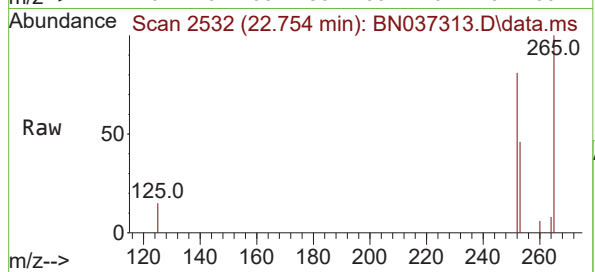
#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 22.754 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

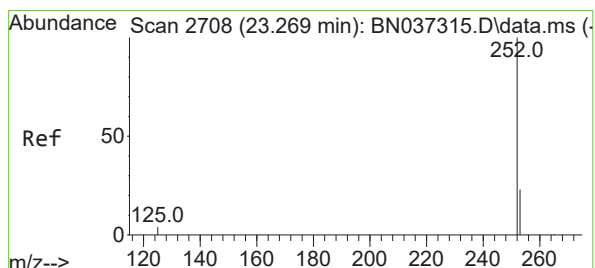
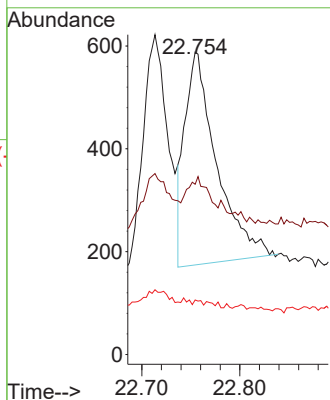
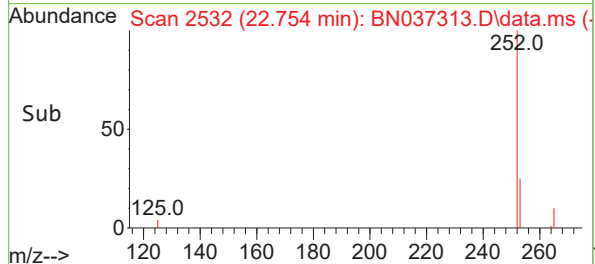
SSTDICC0.1



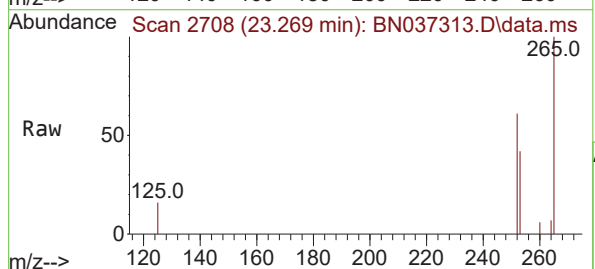
Tgt Ion:252 Resp: 935
Ion Ratio Lower Upper
252 100
253 56.3 26.7 40.1#
125 18.0 6.5 9.7#

Manual Integrations
APPROVED

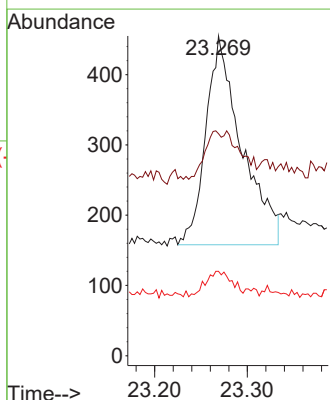
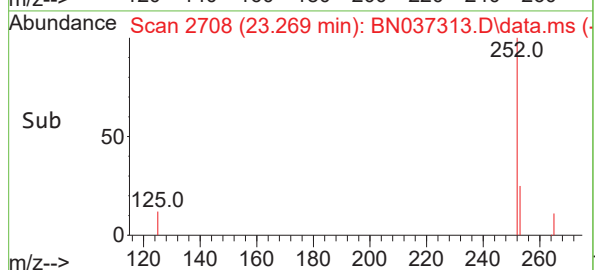
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

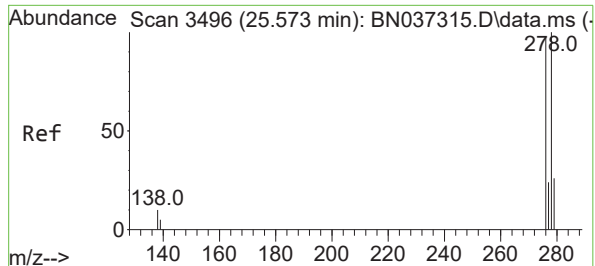


#39
Benzo(a)pyrene
Concen: 0.094 ng
RT: 23.269 min Scan# 2708
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06



Tgt Ion:252 Resp: 795
Ion Ratio Lower Upper
252 100
253 69.5 31.6 47.4#
125 26.4 8.4 12.6#





#40

Dibenzo(a,h)anthracene

Concen: 0.088 ng m

RT: 25.590 min Scan# 3

Delta R.T. 0.017 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

Tgt Ion:278 Resp: 77

Ion Ratio Lower Upper

278 100

139 30.4 10.2 15.4

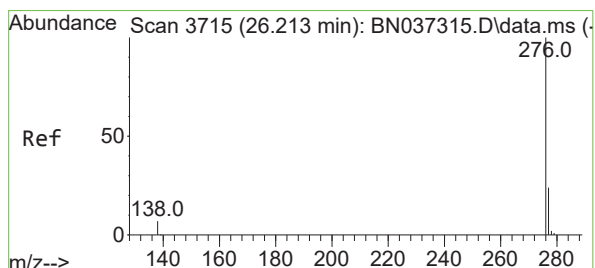
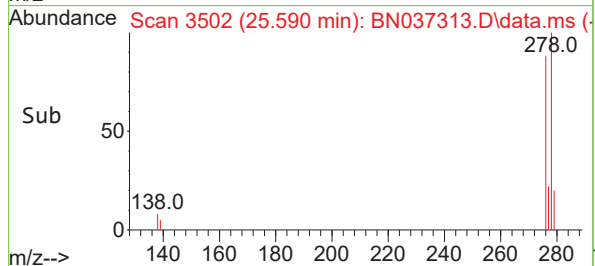
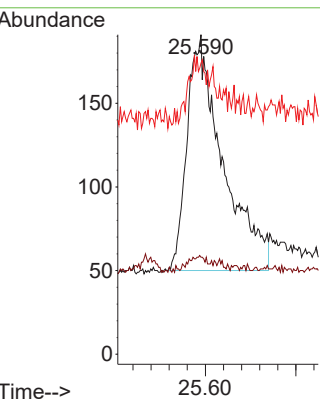
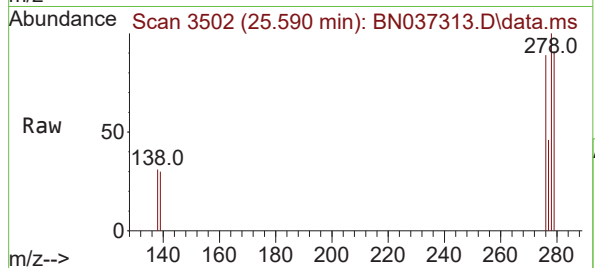
279 91.1 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#41

Benzo(g,h,i)perylene

Concen: 0.095 ng

RT: 26.222 min Scan# 3718

Delta R.T. 0.008 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

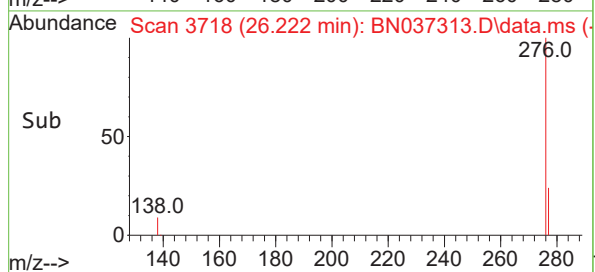
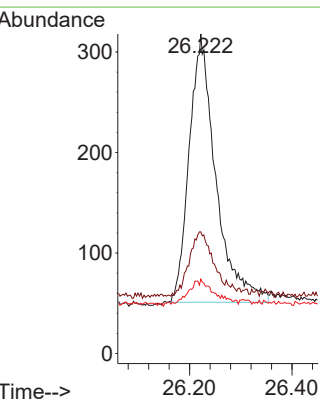
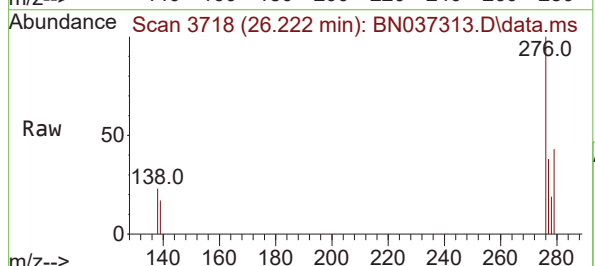
Tgt Ion:276 Resp: 961

Ion Ratio Lower Upper

276 100

277 38.1 22.7 34.1#

138 23.3 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037314.D
 Acq On : 18 Jun 2025 14:42
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025

Quant Time: Jun 18 18:32:23 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 18 18:27:59 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	715	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1542	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1109	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2337	0.400	ng	0.00
29) Chrysene-d12	21.180	240	2507	0.400	ng	0.00
35) Perylene-d12	23.363	264	2797	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	270	0.208	ng	0.00
5) Phenol-d6	6.759	99	221	0.173	ng	0.00
8) Nitrobenzene-d5	8.739	82	202	0.160	ng	0.01
11) 2-Methylnaphthalene-d10	11.961	152	451	0.180	ng	0.01
14) 2,4,6-Tribromophenol	15.730	330	152	0.191	ng	0.01
15) 2-Fluorobiphenyl	12.853	172	907	0.187	ng	0.01
27) Fluoranthene-d10	19.017	212	1458	0.197	ng	0.00
31) Terphenyl-d14	19.630	244	1097	0.191	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	151	0.237	ng	96
3) n-Nitrosodimethylamine	3.429	42	171	0.231	ng	92
6) bis(2-Chloroethyl)ether	7.012	93	185	0.169	ng	95
9) Naphthalene	10.404	128	780	0.196	ng	# 92
10) Hexachlorobutadiene	10.693	225	418	0.207	ng	# 99
12) 2-Methylnaphthalene	12.031	142	536	0.191	ng	95
16) Acenaphthylene	13.935	152	890	0.191	ng	99
17) Acenaphthene	14.288	154	618	0.199	ng	95
18) Fluorene	15.282	166	844	0.192	ng	100
20) 4,6-Dinitro-2-methylph...	15.389	198	128m	0.183	ng	
21) 4-Bromophenyl-phenylether	16.177	248	389	0.201	ng	# 92
22) Hexachlorobenzene	16.289	284	441	0.217	ng	95
23) Atrazine	16.463	200	306	0.202	ng	94
24) Pentachlorophenol	16.636	266	229	0.204	ng	90
25) Phenanthrene	17.021	178	1258	0.191	ng	99
26) Anthracene	17.108	178	1168	0.189	ng	96
28) Fluoranthene	19.045	202	1799	0.197	ng	99
30) Pyrene	19.407	202	1856	0.194	ng	99
32) Benzo(a)anthracene	21.162	228	1461	0.181	ng	94
33) Chrysene	21.216	228	2167	0.210	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	714	0.216	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.561	276	2171	0.185	ng	# 98
37) Benzo(b)fluoranthene	22.711	252	1740	0.178	ng	# 87
38) Benzo(k)fluoranthene	22.755	252	2013	0.188	ng	# 90
39) Benzo(a)pyrene	23.269	252	1711	0.189	ng	# 85
40) Dibenzo(a,h)anthracene	25.573	278	1742m	0.186	ng	
41) Benzo(g,h,i)perylene	26.216	276	2056	0.191	ng	# 95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037314.D
 Acq On : 18 Jun 2025 14:42
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025

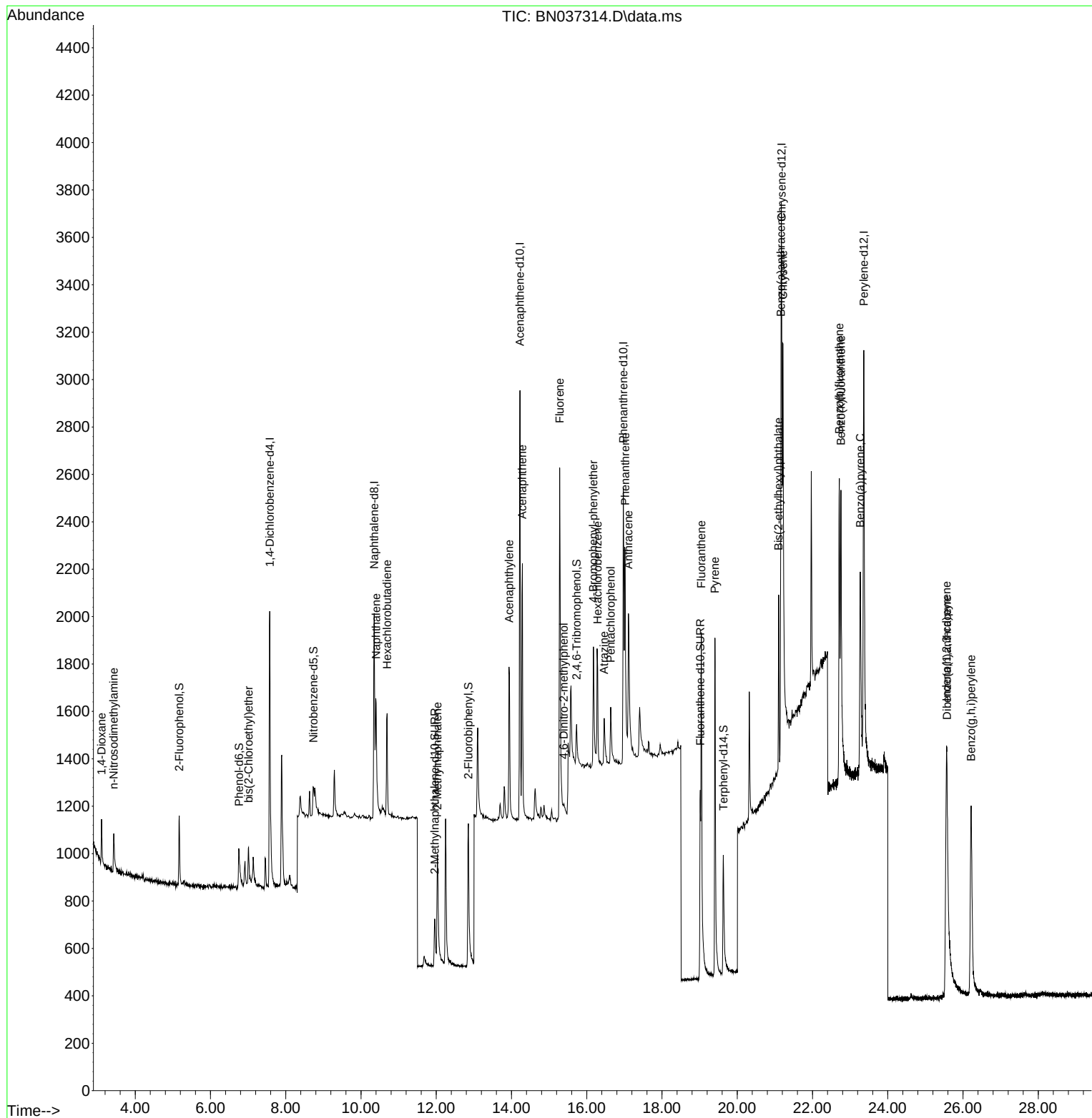
Quant Time: Jun 18 18:32:23 2025

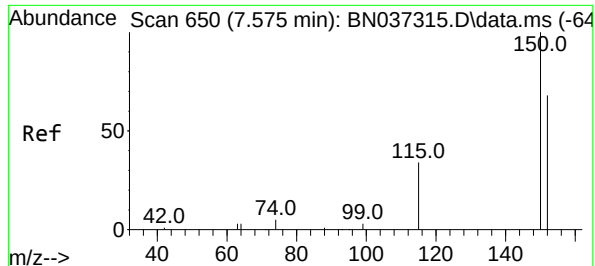
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jun 18 18:27:59 2025

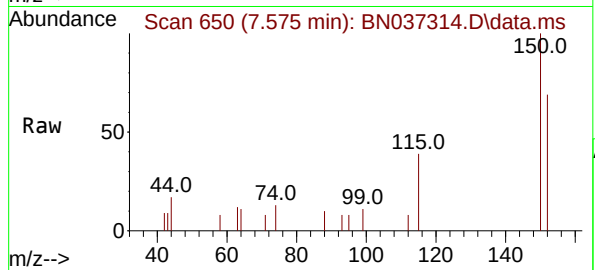
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 650
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

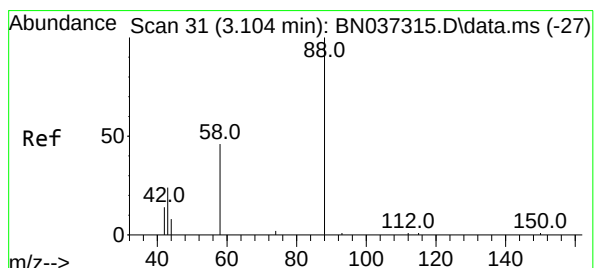
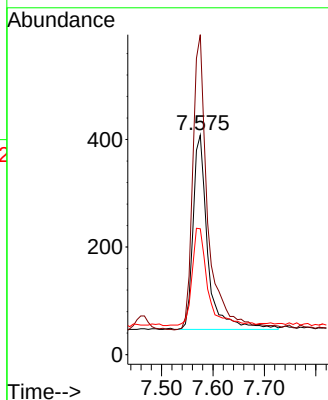
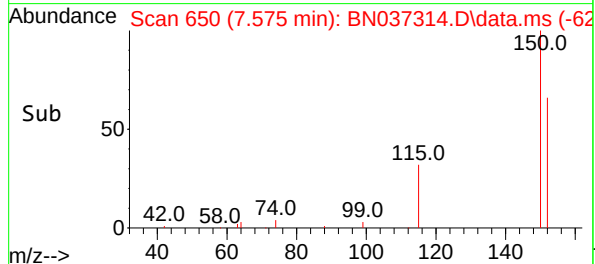
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 715
Ion Ratio Lower Upper
152 100
150 145.8 112.7 169.1
115 57.4 45.9 68.9

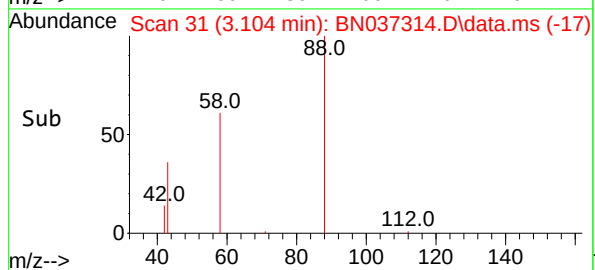
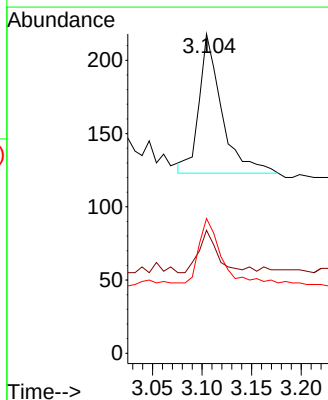
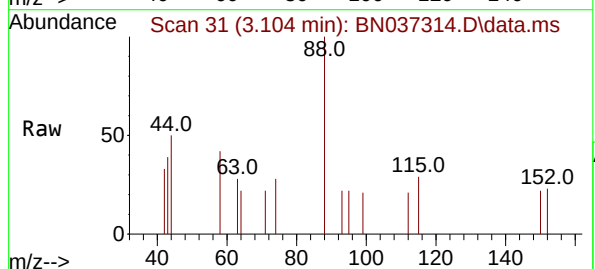
Manual Integrations
APPROVED

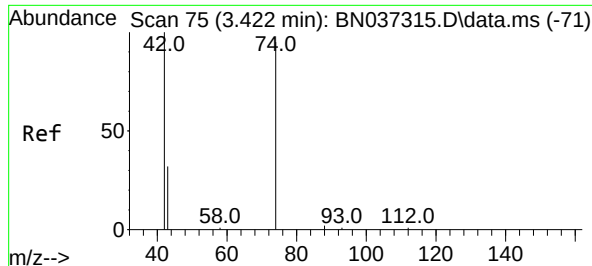
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#2
1,4-Dioxane
Concen: 0.237 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion: 88 Resp: 151
Ion Ratio Lower Upper
88 100
43 24.5 21.0 31.6
58 45.0 38.0 57.0





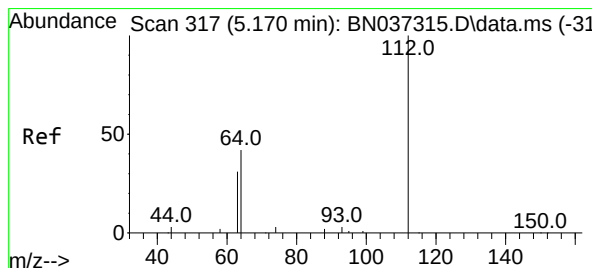
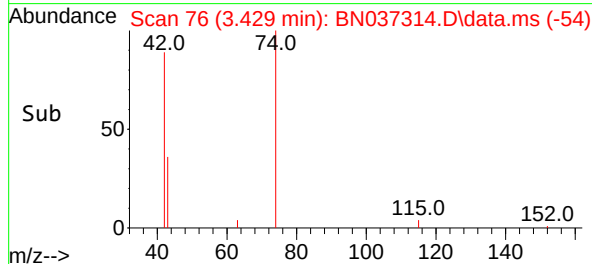
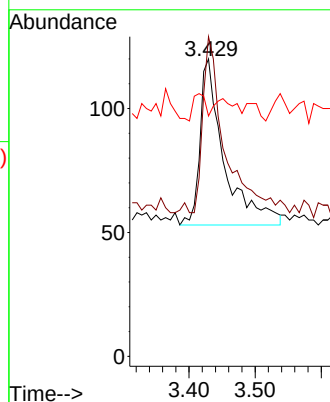
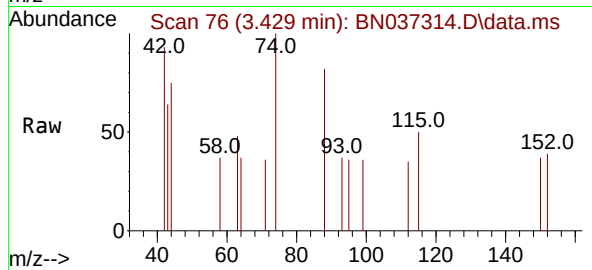
#3
n-Nitrosodimethylamine
Concen: 0.231 ng
RT: 3.429 min Scan# 75
Delta R.T. 0.007 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 17
Ion Ratio Lower Upper
42 100
74 97.1 84.3 126.5
44 7.0 5.0 7.4

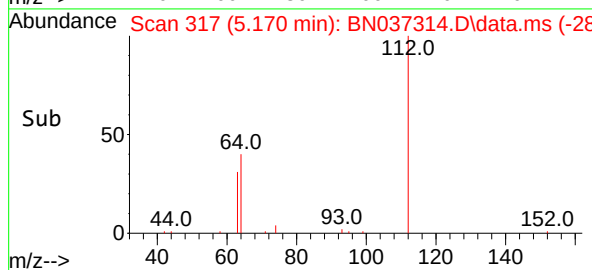
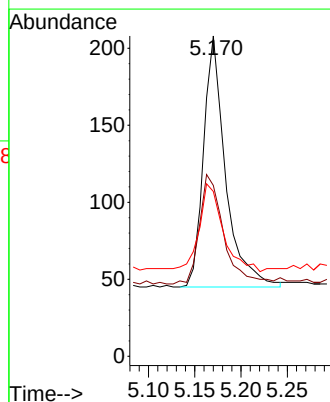
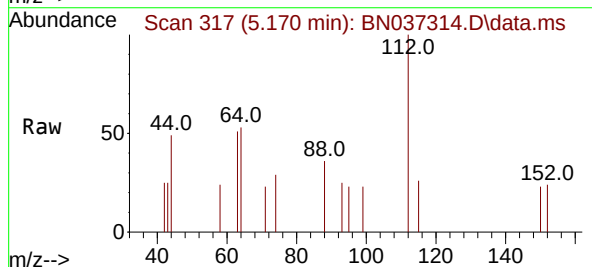
Manual Integrations
APPROVED

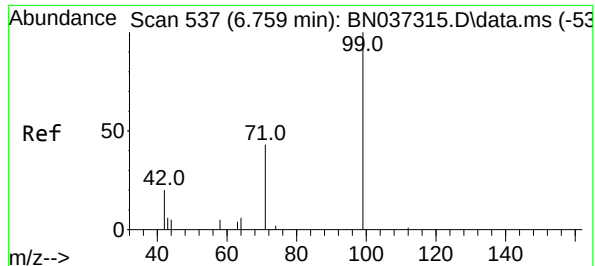
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#4
2-Fluorophenol
Concen: 0.208 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:112 Resp: 270
Ion Ratio Lower Upper
112 100
64 47.4 38.7 58.1
63 33.7 26.4 39.6





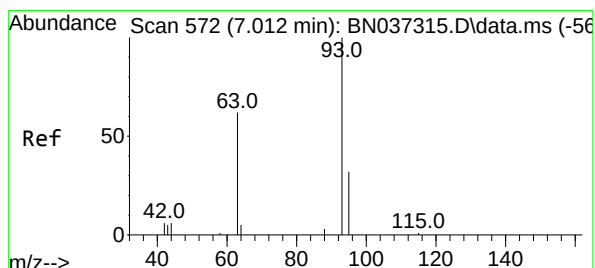
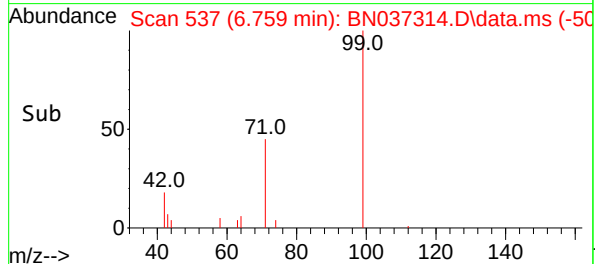
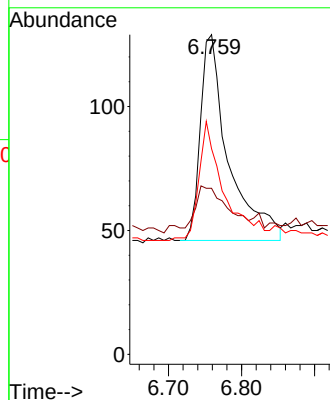
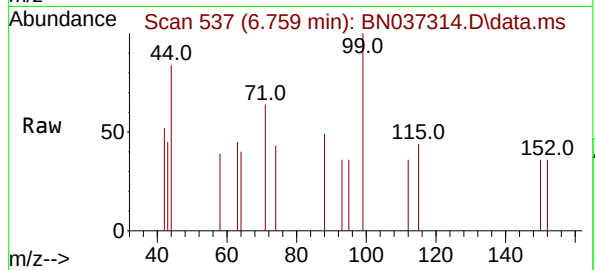
#5
Phenol-d6
Concen: 0.173 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 22
Ion Ratio Lower Upper
99 100
42 25.3 19.8 29.8
71 52.5 42.6 64.0

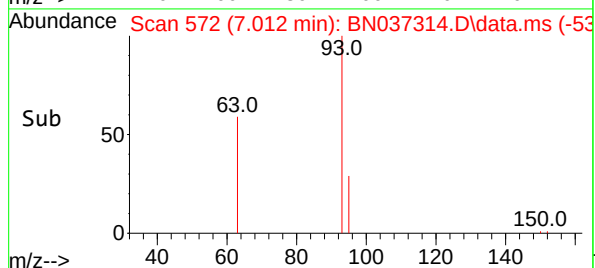
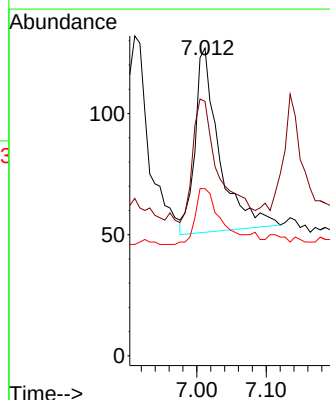
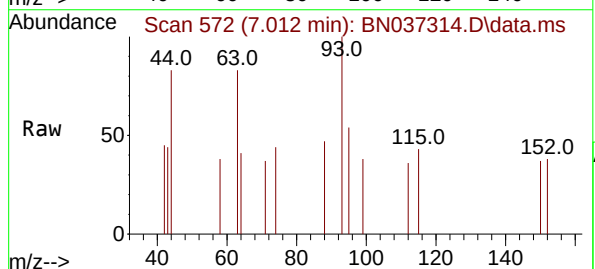
Manual Integrations
APPROVED

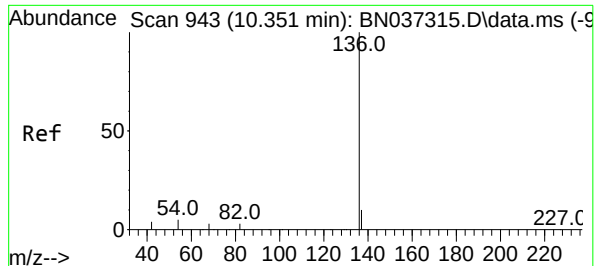
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.169 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion: 93 Resp: 185
Ion Ratio Lower Upper
93 100
63 72.4 53.2 79.8
95 34.6 27.3 40.9





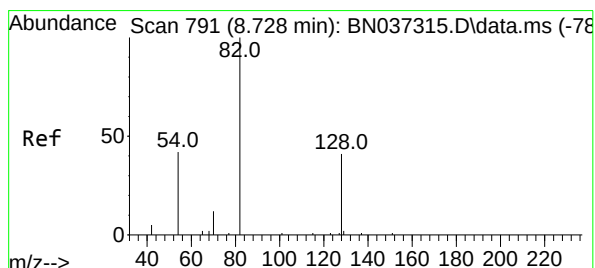
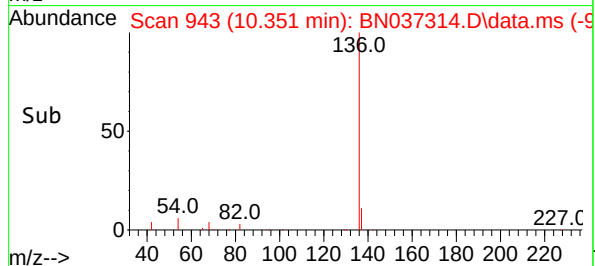
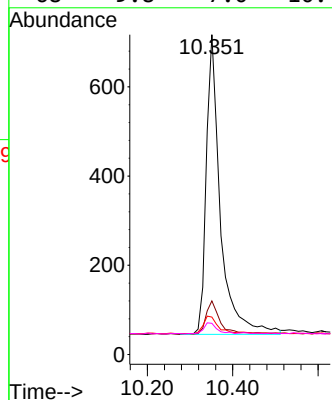
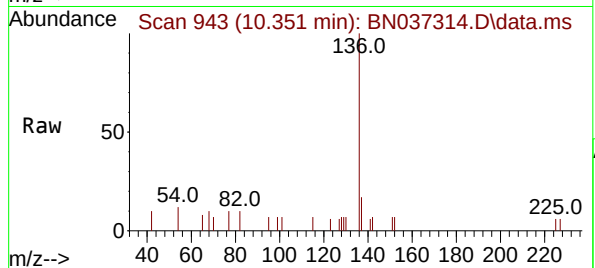
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 154
Ion Ratio Lower Upper
136 100
137 16.7 12.2 18.2
54 11.7 8.8 13.2
68 9.8 7.0 10.4

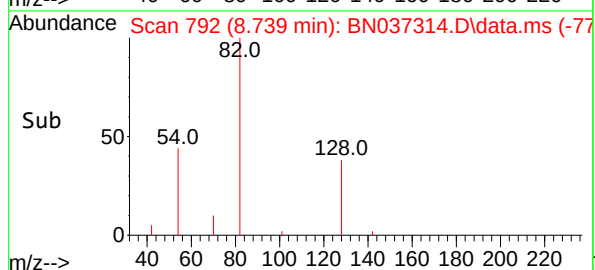
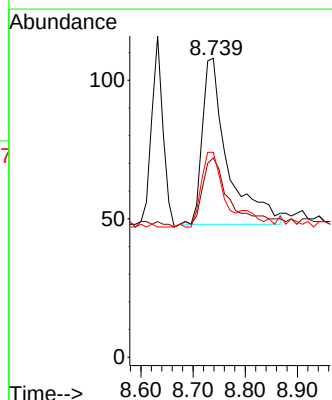
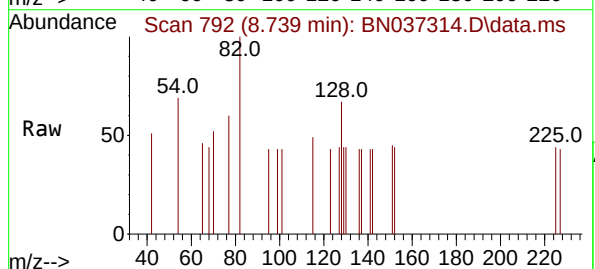
Manual Integrations
APPROVED

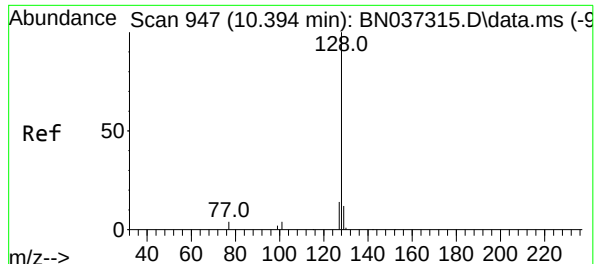
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#8
Nitrobenzene-d5
Concen: 0.160 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion: 82 Resp: 202
Ion Ratio Lower Upper
82 100
128 66.7 42.5 63.7#
54 68.5 43.2 64.8#





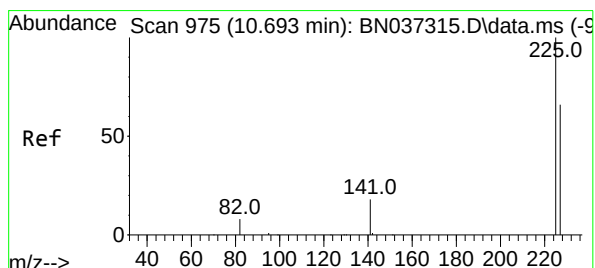
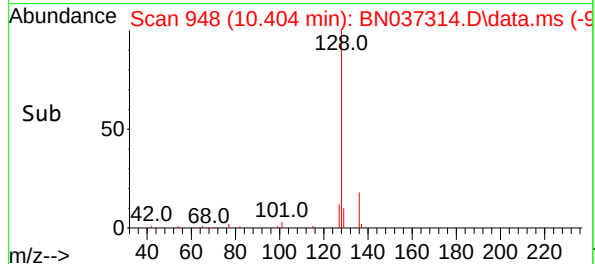
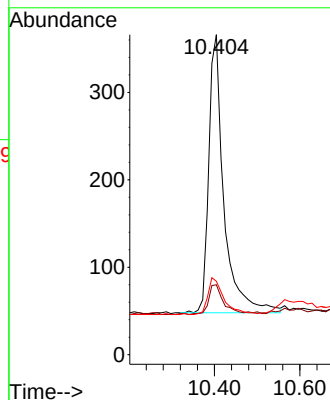
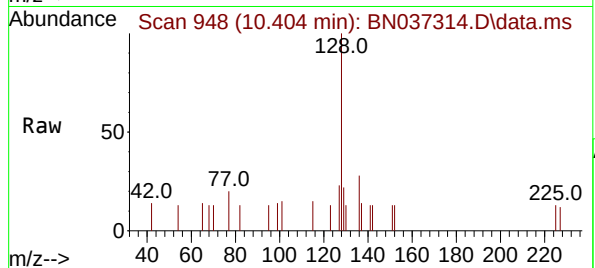
#9
Naphthalene
Concen: 0.196 ng
RT: 10.404 min Scan# 947
Delta R.T. 0.011 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 780
Ion Ratio Lower Upper
128 100
129 21.9 14.0 21.0
127 23.0 15.8 23.8

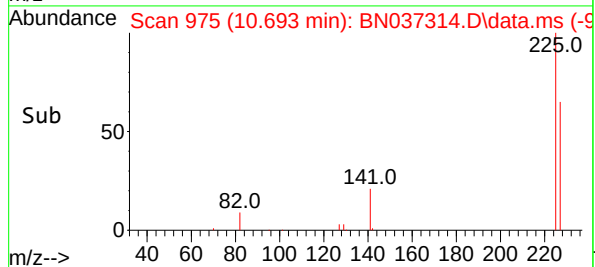
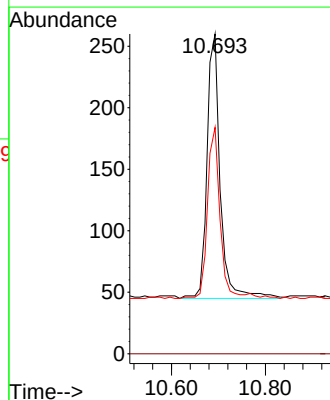
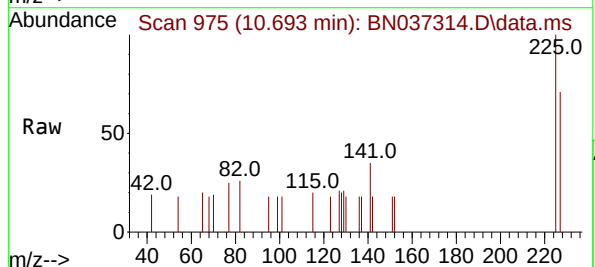
Manual Integrations
APPROVED

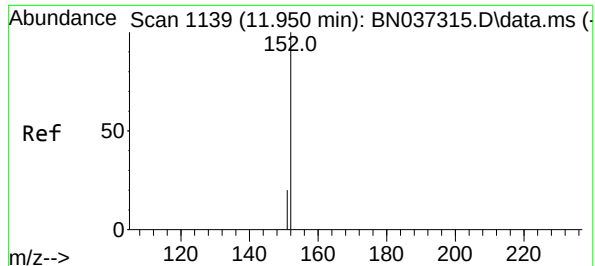
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#10
Hexachlorobutadiene
Concen: 0.207 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

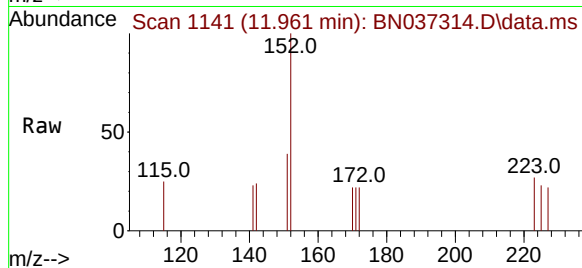
Tgt Ion:225 Resp: 418
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.4 50.3 75.5





#11
2-Methylnaphthalene-d10
Concen: 0.180 ng
RT: 11.961 min Scan# 1141
Delta R.T. 0.010 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

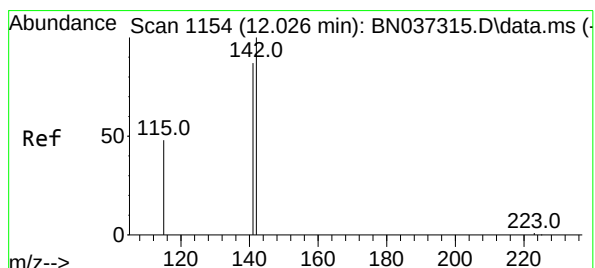
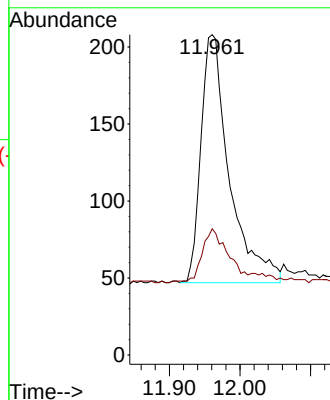
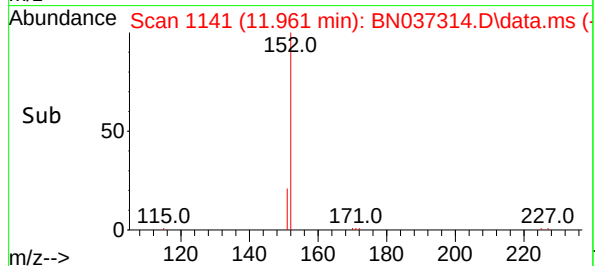
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



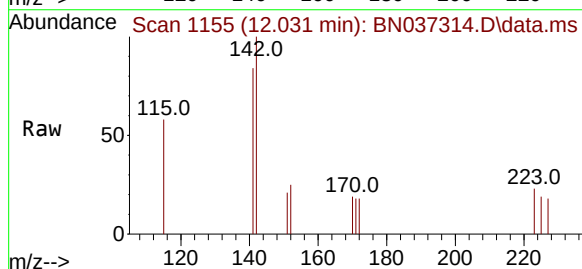
Tgt Ion:152 Resp: 45
Ion Ratio Lower Upper
152 100
151 18.8 17.4 26.0

Manual Integrations
APPROVED

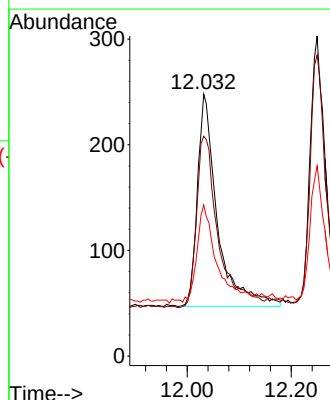
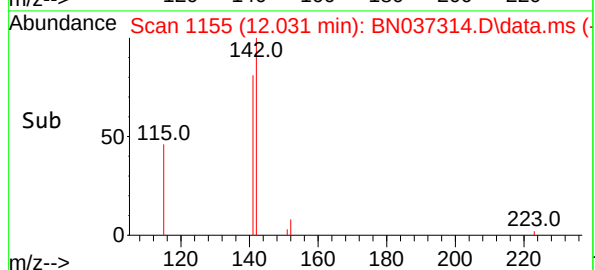
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

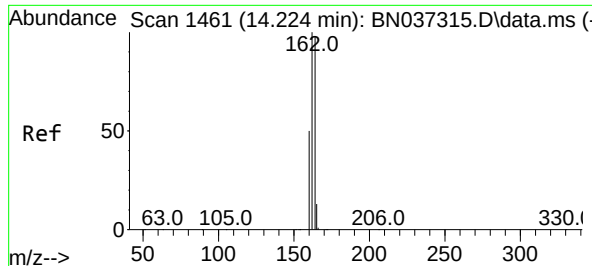


#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42



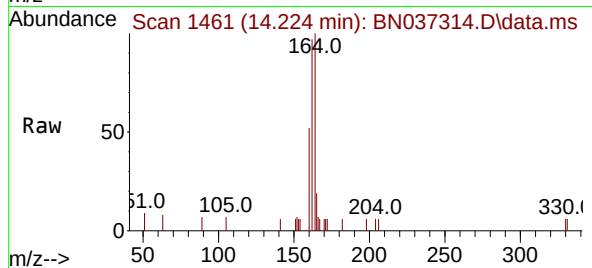
Tgt Ion:142 Resp: 536
Ion Ratio Lower Upper
142 100
141 83.9 70.2 105.2
115 57.7 43.0 64.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

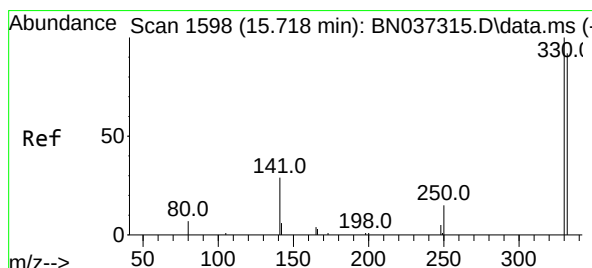
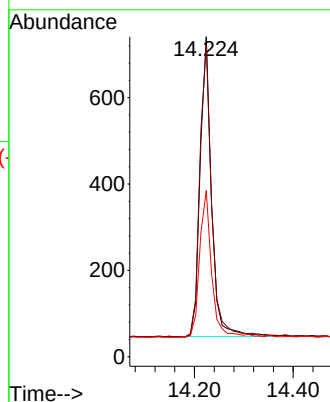
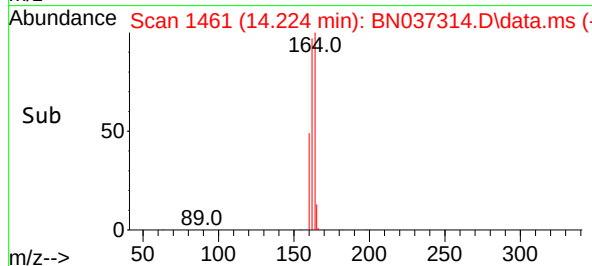
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



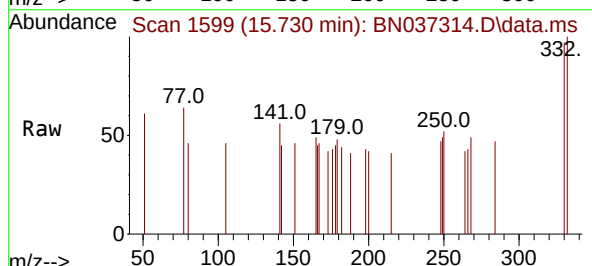
Tgt Ion:164 Resp: 1109
Ion Ratio Lower Upper
164 100
162 97.4 81.5 122.3
160 52.0 43.0 64.4

Manual Integrations
APPROVED

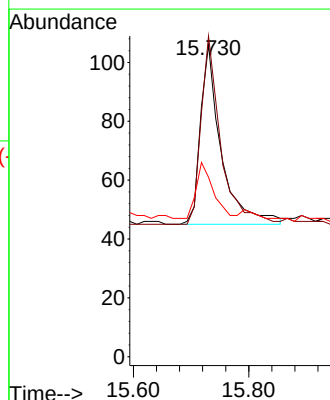
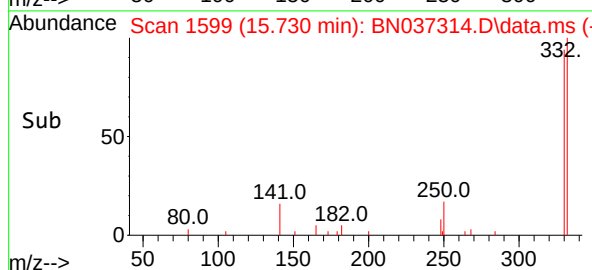
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

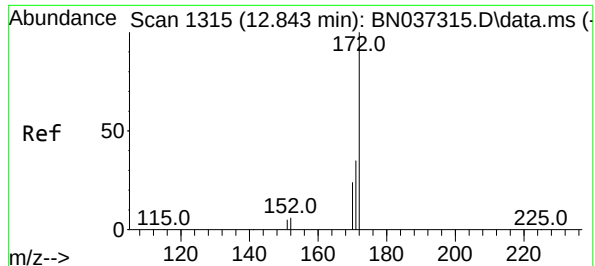


#14
2,4,6-Tribromophenol
Concen: 0.191 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42



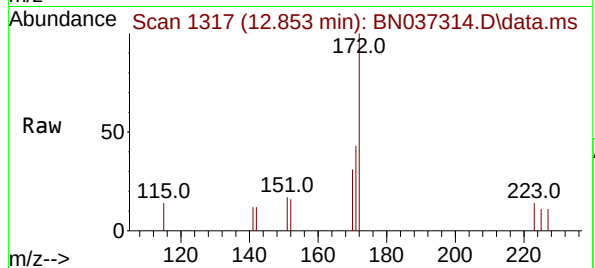
Tgt Ion:330 Resp: 152
Ion Ratio Lower Upper
330 100
332 100.0 78.4 117.6
141 25.7 24.4 36.6





#15
2-Fluorobiphenyl
Concen: 0.187 ng
RT: 12.853 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

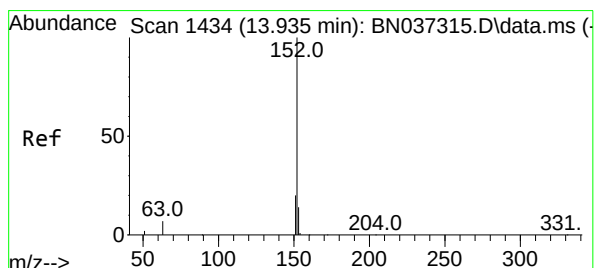
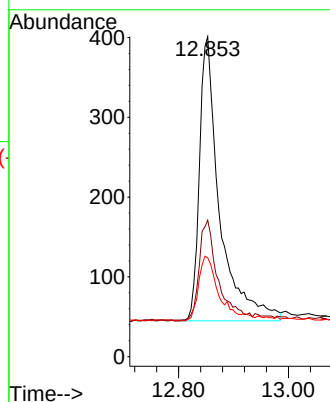
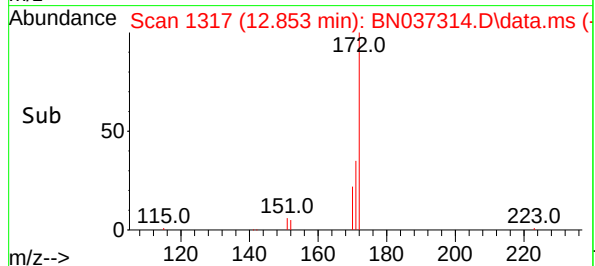
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



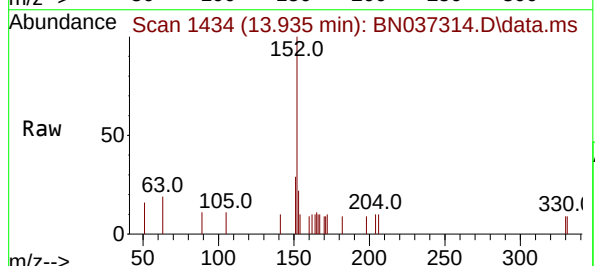
Tgt Ion:172 Resp: 90
Ion Ratio Lower Upper
172 100
171 42.6 30.8 46.2
170 30.9 21.9 32.9

Manual Integrations
APPROVED

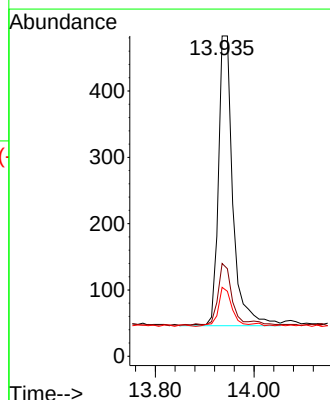
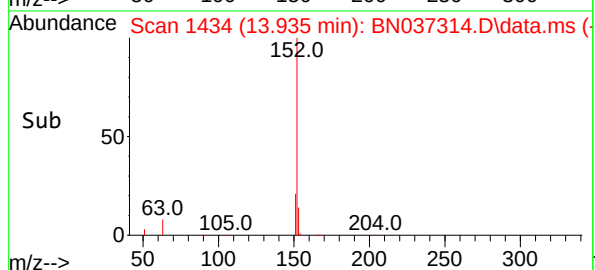
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

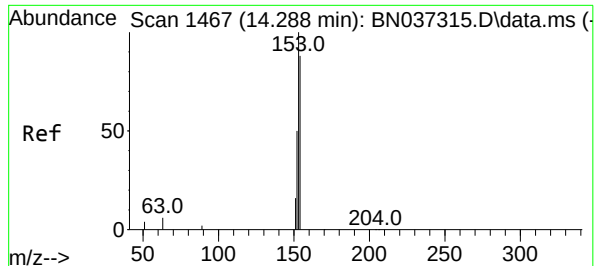


#16
Acenaphthylene
Concen: 0.191 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42



Tgt Ion:152 Resp: 890
Ion Ratio Lower Upper
152 100
151 21.5 16.6 24.8
153 12.8 10.2 15.2





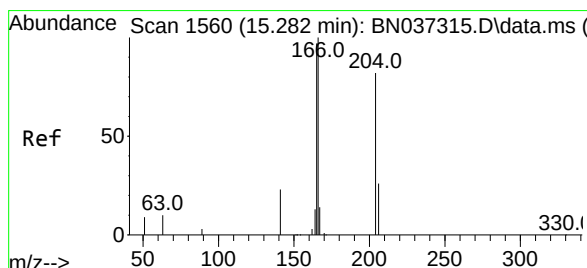
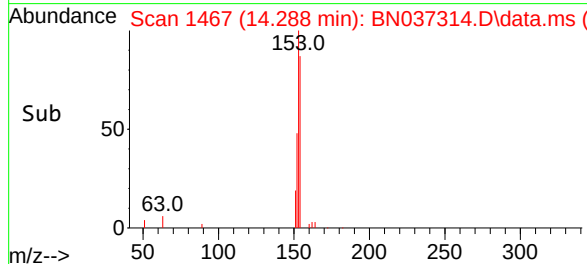
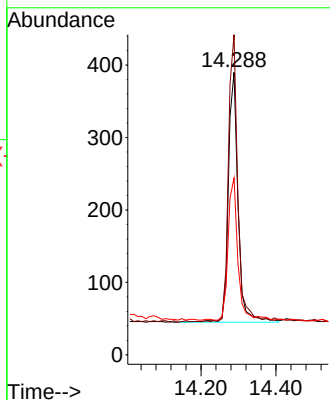
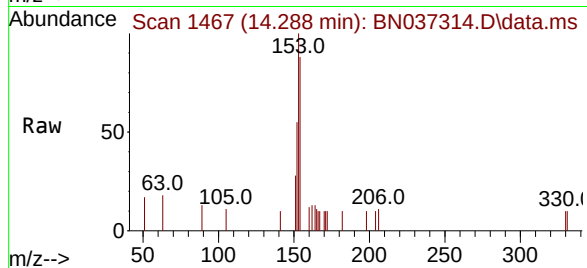
#17
Acenaphthene
Concen: 0.199 ng
RT: 14.288 min Scan# 1467
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 618
Ion Ratio Lower Upper
154 100
153 110.7 93.1 139.7
152 57.1 48.6 73.0

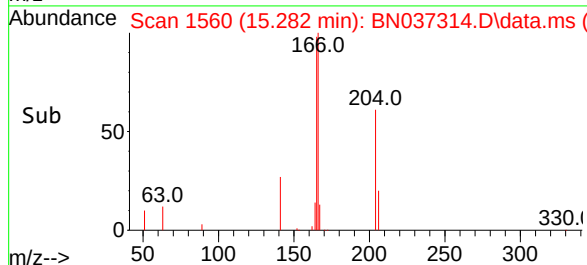
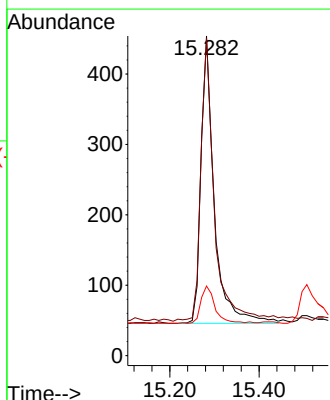
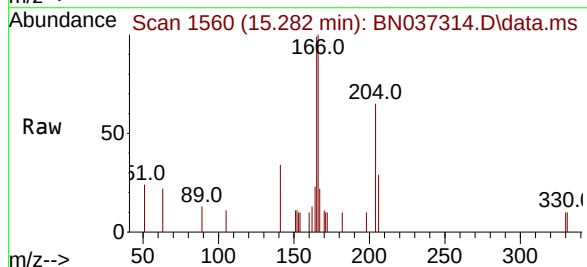
Manual Integrations
APPROVED

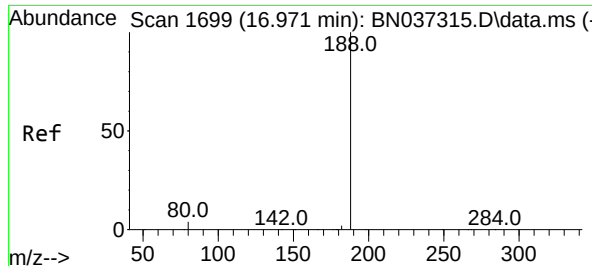
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#18
Fluorene
Concen: 0.192 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:166 Resp: 844
Ion Ratio Lower Upper
166 100
165 99.8 79.5 119.3
167 13.9 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: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

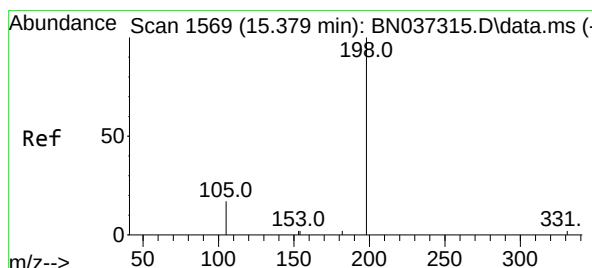
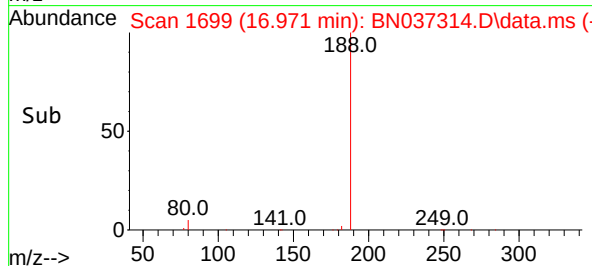
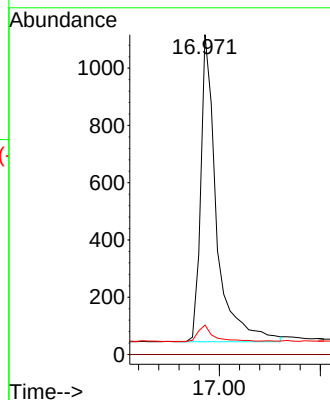
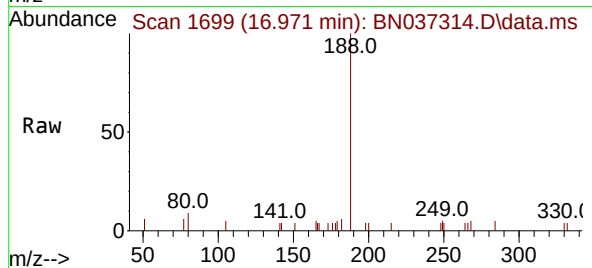
ClientSampleId :

SSTDICC0.2

Tgt Ion:	188	Resp:	233
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	9.2	6.2	9.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.183 ng m

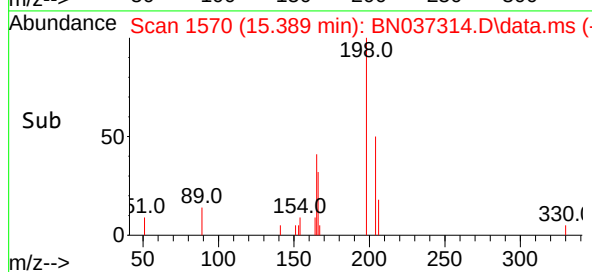
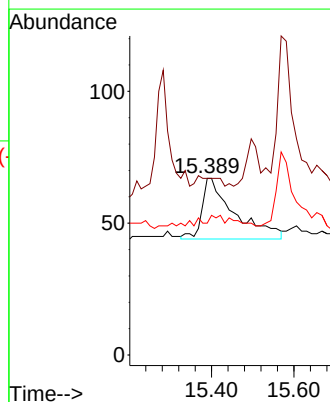
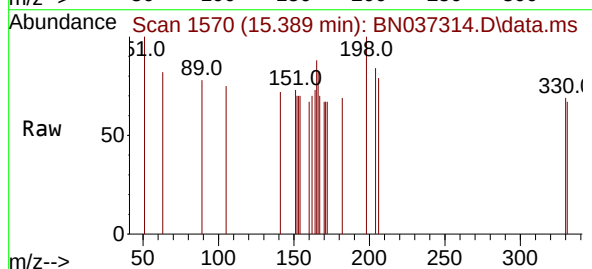
RT: 15.389 min Scan# 1570

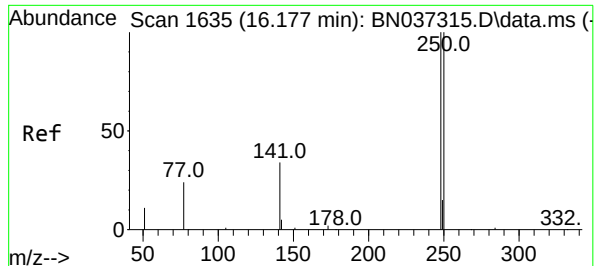
Delta R.T. 0.011 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Tgt Ion:	198	Resp:	128
Ion Ratio	Lower	Upper	
198	100		
51	100.0	51.4	77.0#
105	74.6	45.5	68.3#





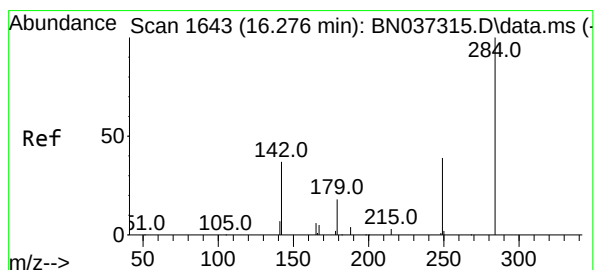
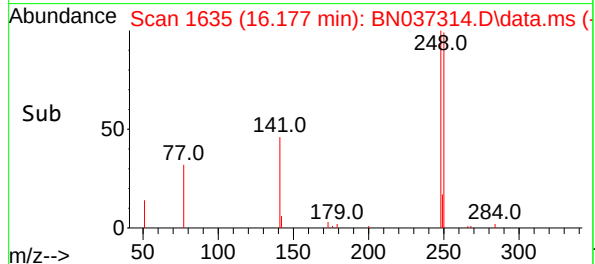
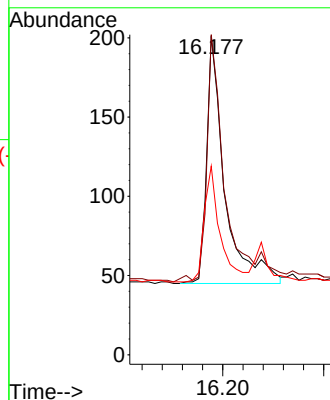
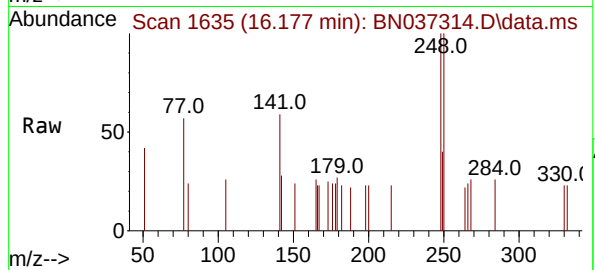
#21
4-Bromophenyl-phenylether
Concen: 0.201 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 389
Ion Ratio Lower Upper
248 100
250 100.5 80.4 120.6
141 59.2 33.3 49.9

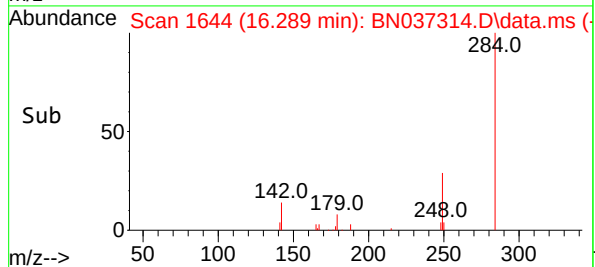
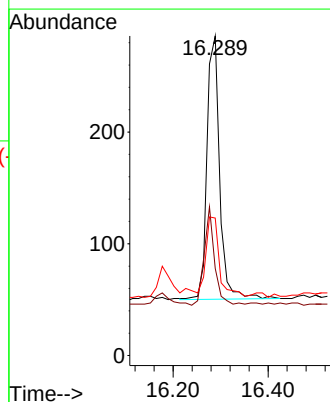
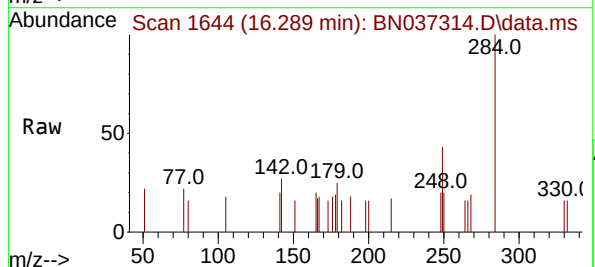
Manual Integrations
APPROVED

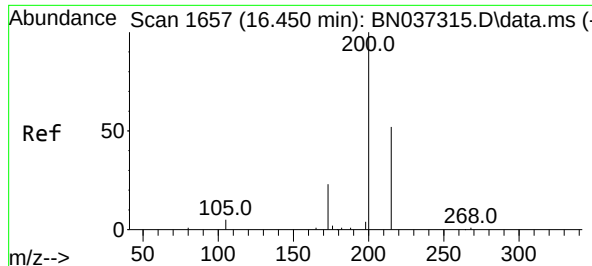
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#22
Hexachlorobenzene
Concen: 0.217 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.012 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:284 Resp: 441
Ion Ratio Lower Upper
284 100
142 30.8 27.0 40.6
249 33.3 28.8 43.2





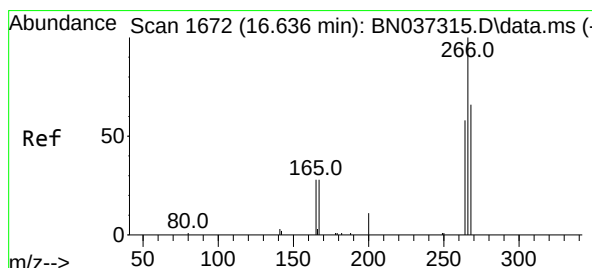
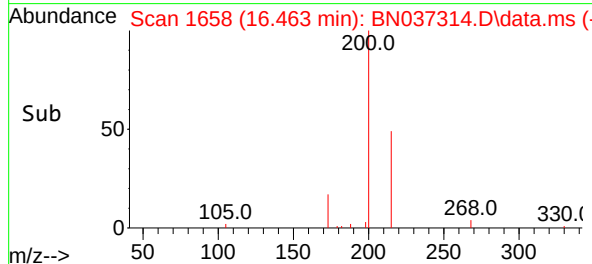
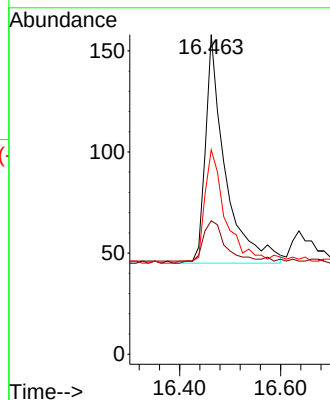
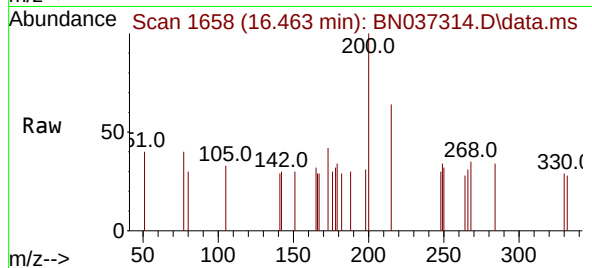
#23
Atrazine
Concen: 0.202 ng
RT: 16.463 min Scan# 1658
Delta R.T. 0.012 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 300
Ion Ratio Lower Upper
200 100
173 41.8 29.2 43.8
215 63.9 48.8 73.2

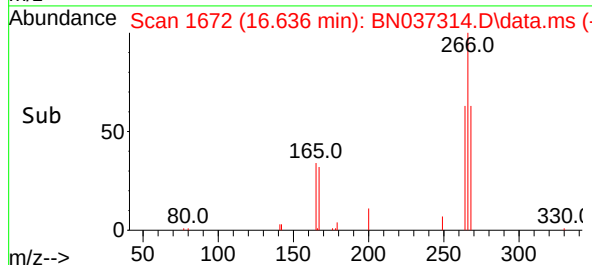
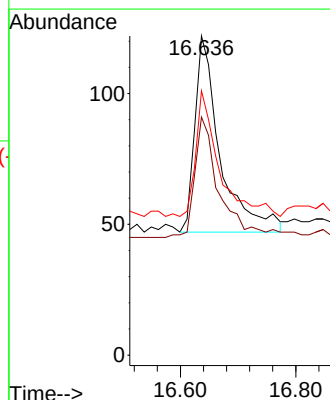
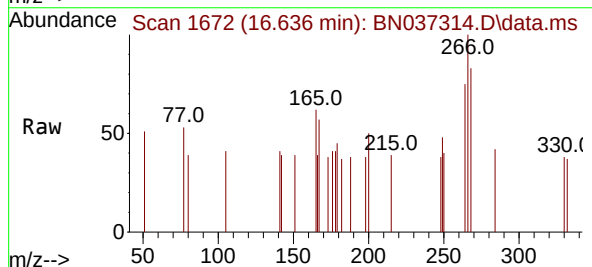
Manual Integrations
APPROVED

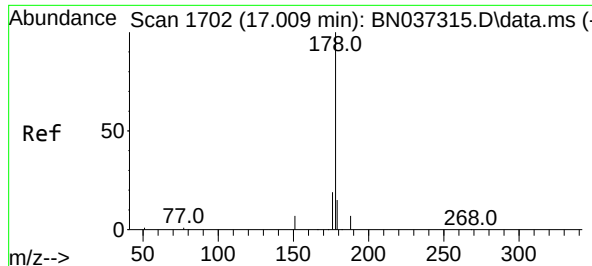
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#24
Pentachlorophenol
Concen: 0.204 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:266 Resp: 229
Ion Ratio Lower Upper
266 100
264 59.0 50.3 75.5
268 57.6 55.3 82.9





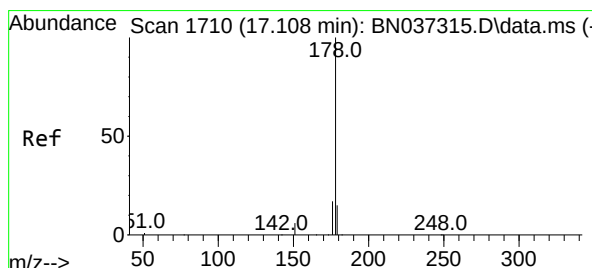
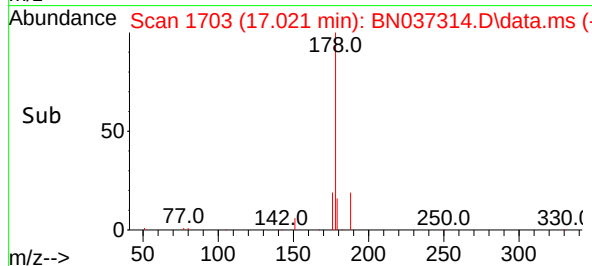
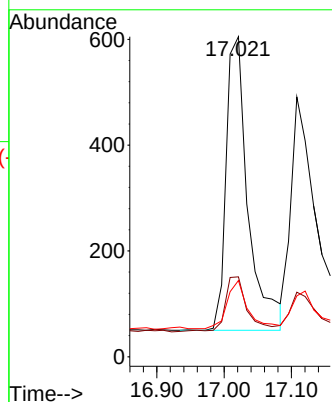
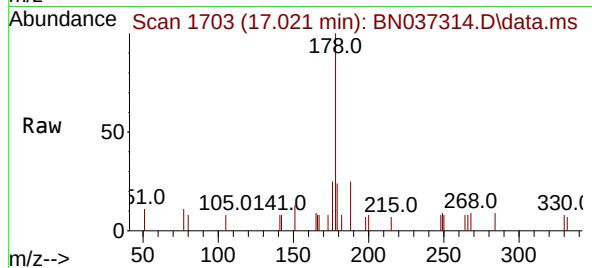
#25
Phenanthrene
Concen: 0.191 ng
RT: 17.021 min Scan# 1702
Delta R.T. 0.012 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 1258
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.6 12.9 19.3

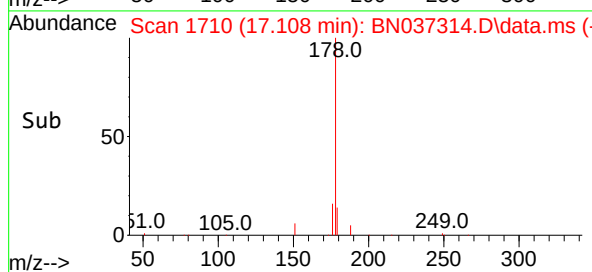
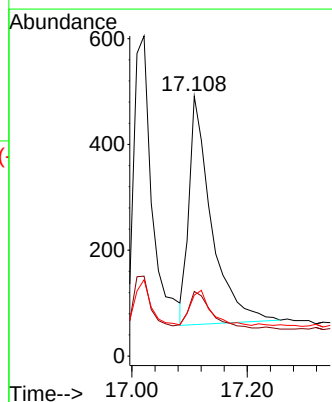
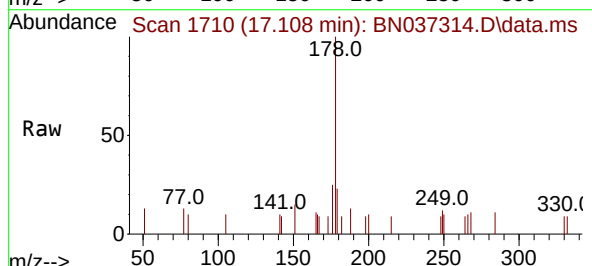
Manual Integrations
APPROVED

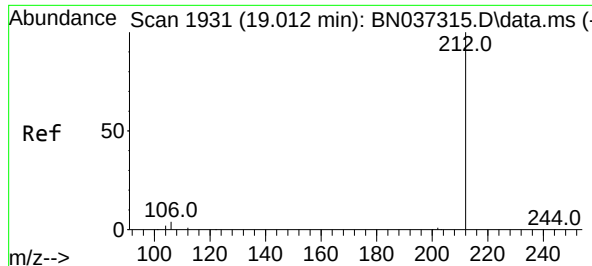
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#26
Anthracene
Concen: 0.189 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:178 Resp: 1168
Ion Ratio Lower Upper
178 100
176 17.0 14.7 22.1
179 14.4 13.0 19.6





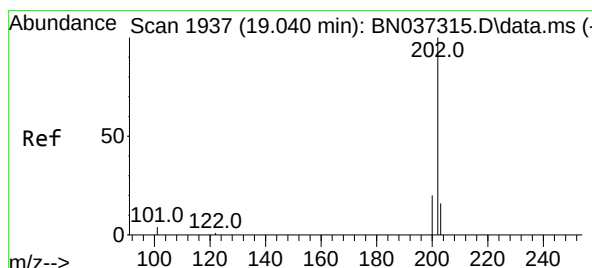
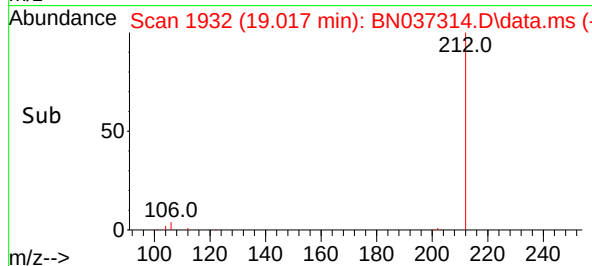
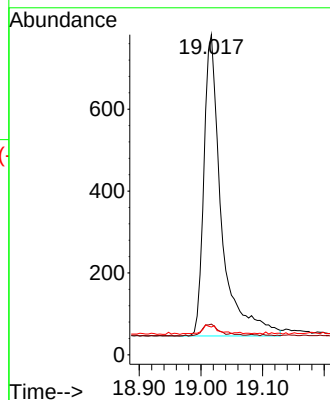
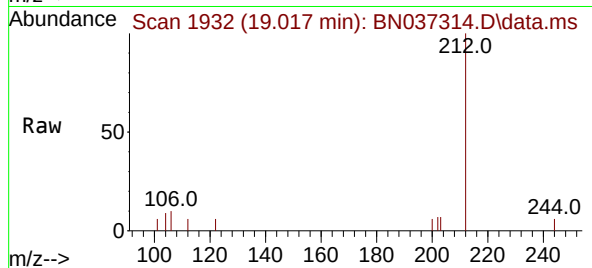
#27
Fluoranthene-d10
Concen: 0.197 ng
RT: 19.017 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 1458
Ion Ratio Lower Upper
212 100
106 3.6 3.0 4.4
104 2.9 2.0 3.0

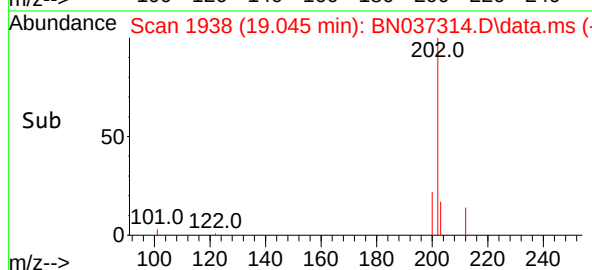
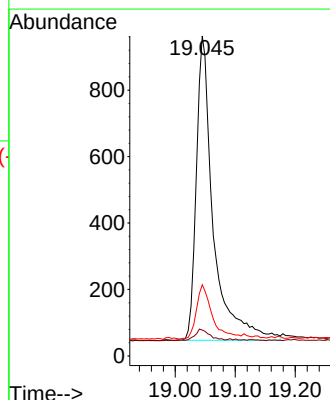
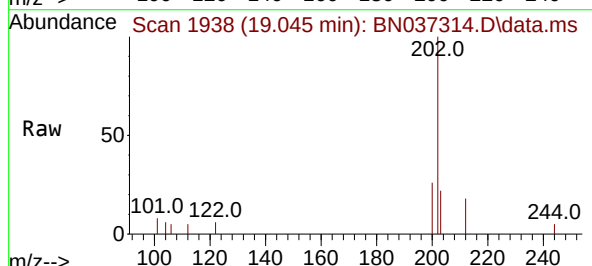
Manual Integrations
APPROVED

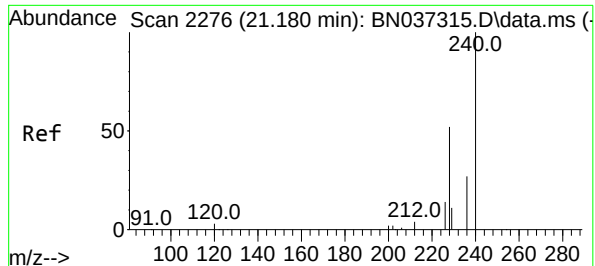
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#28
Fluoranthene
Concen: 0.197 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:202 Resp: 1799
Ion Ratio Lower Upper
202 100
101 3.2 3.0 4.6
203 16.7 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

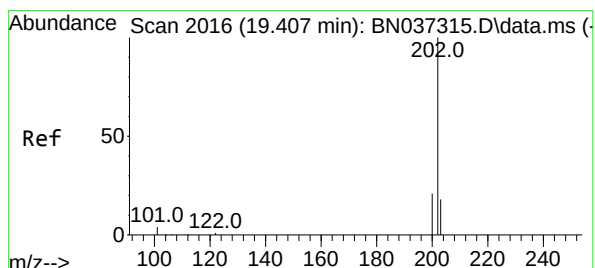
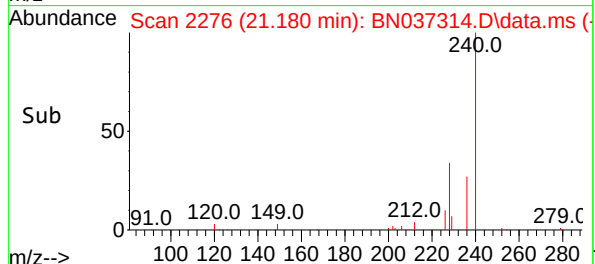
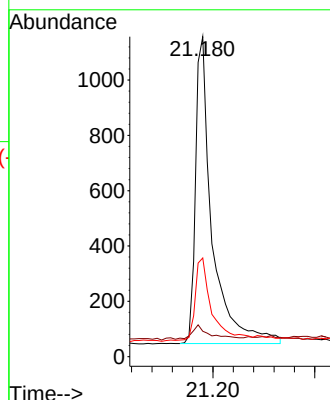
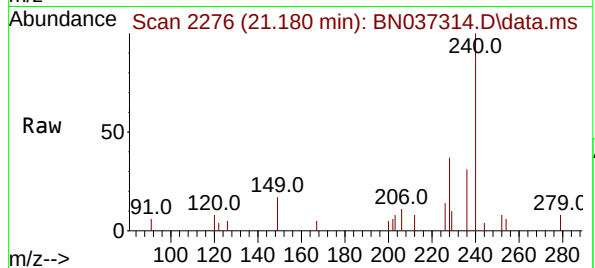
ClientSampleId :

SSTDICC0.2

Tgt Ion:	240	Resp:	250
Ion Ratio	Lower	Upper	
240	100		
120	8.0	7.5	11.3
236	30.9	24.9	37.3

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#30

Pyrene

Concen: 0.194 ng

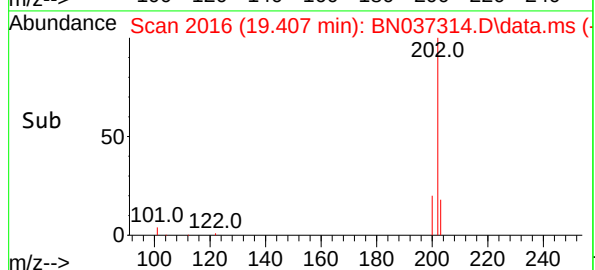
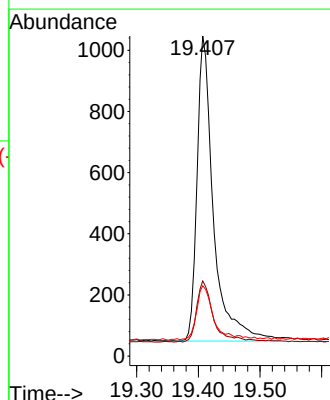
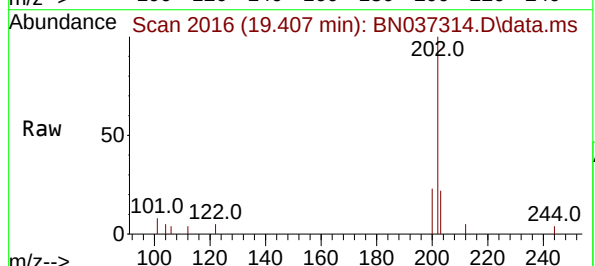
RT: 19.407 min Scan# 2016

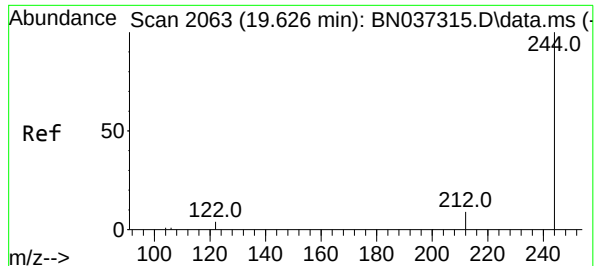
Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

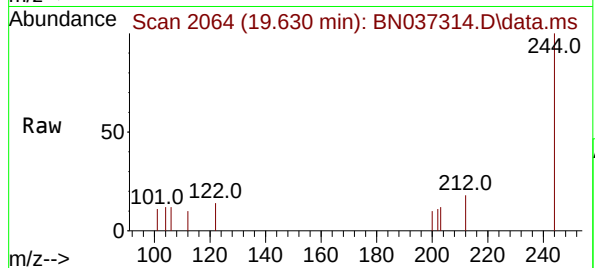
Tgt Ion:	202	Resp:	1856
Ion Ratio	Lower	Upper	
202	100		
200	20.4	16.8	25.2
203	18.1	14.5	21.7





#31
Terphenyl-d14
Concen: 0.191 ng
RT: 19.630 min Scan# 2064
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

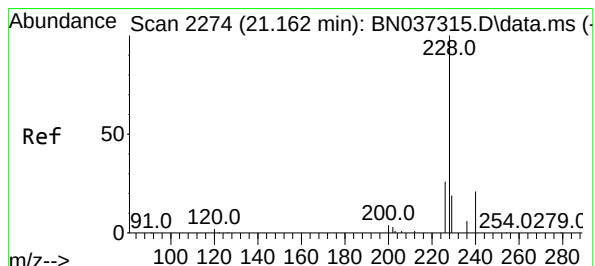
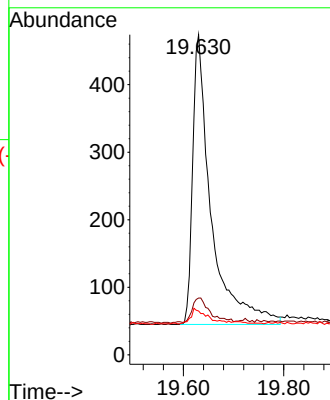
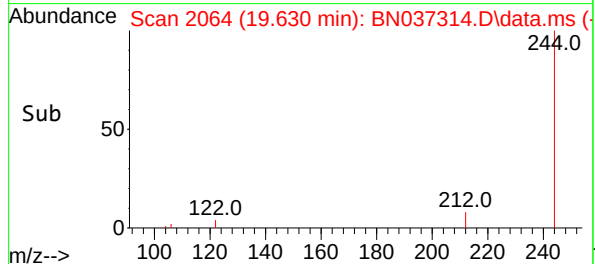
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:244 Resp: 109
Ion Ratio Lower Upper
244 100
212 17.7 11.1 16.7
122 13.7 7.2 10.8

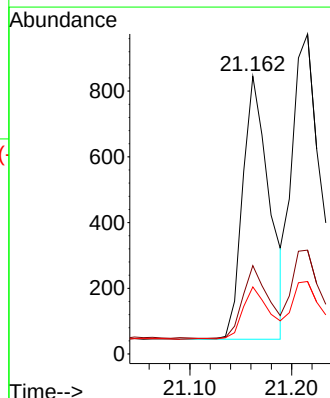
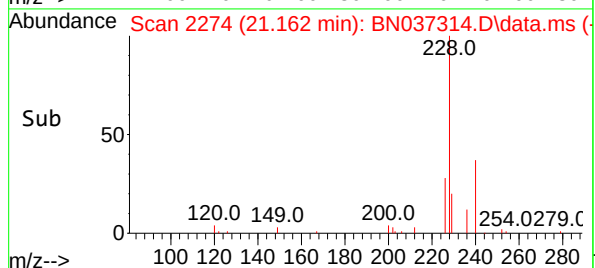
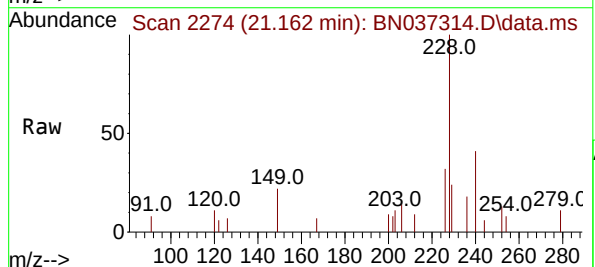
Manual Integrations
APPROVED

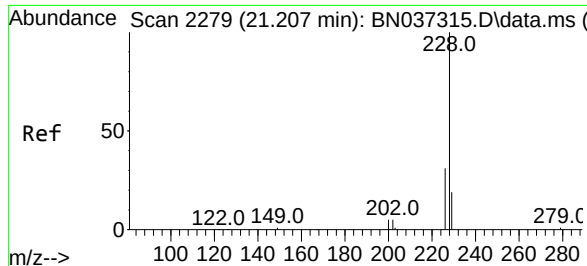
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#32
Benzo(a)anthracene
Concen: 0.181 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:228 Resp: 1461
Ion Ratio Lower Upper
228 100
226 31.8 23.0 34.4
229 24.1 17.4 26.0





#33

Chrysene

Concen: 0.210 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

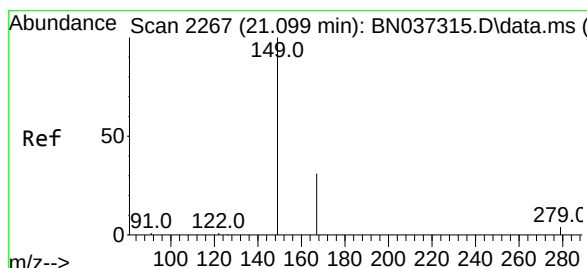
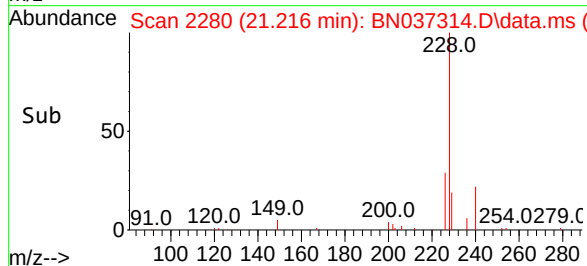
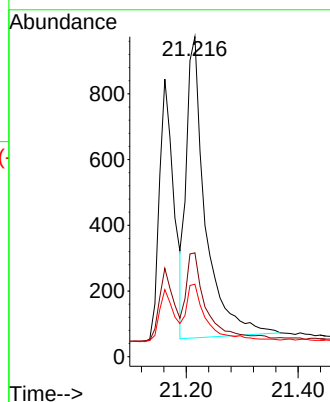
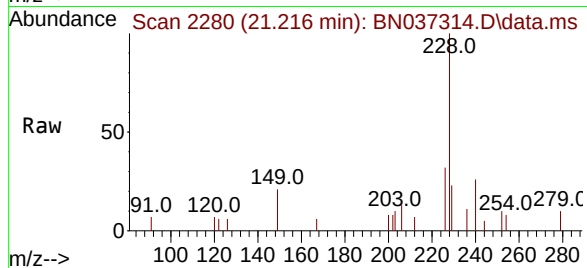
ClientSampleId :

SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.4	25.4	38.2
229	22.7	17.3	25.9

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.216 ng

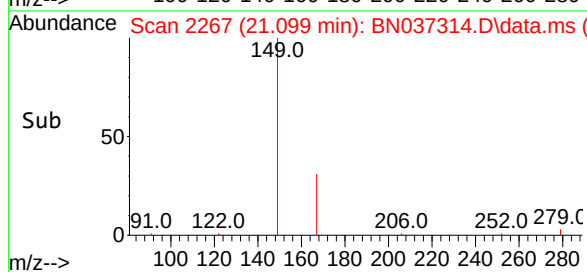
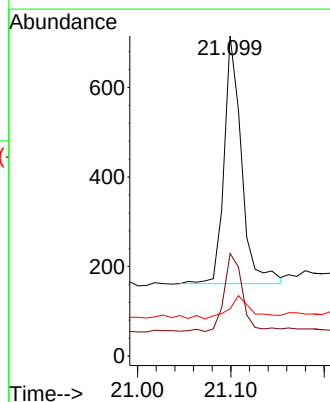
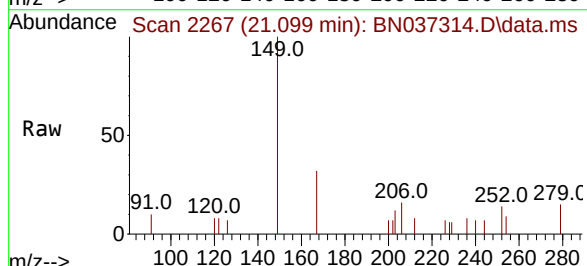
RT: 21.099 min Scan# 2267

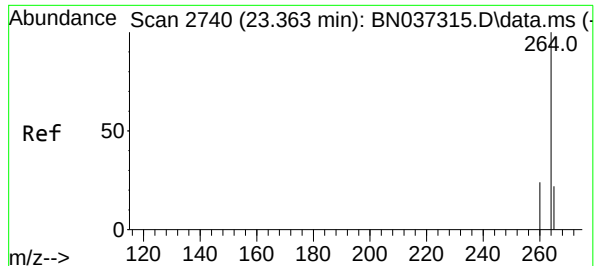
Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

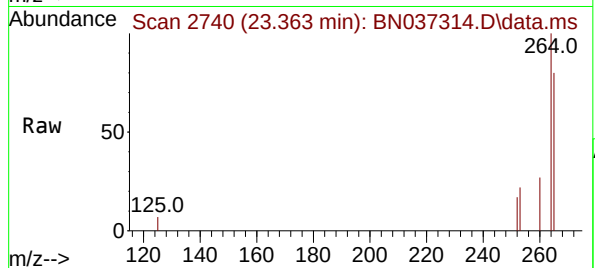
Tgt Ion	Ratio	Lower	Upper
149	100		
167	32.9	24.6	37.0
279	12.5	6.5	9.7#





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

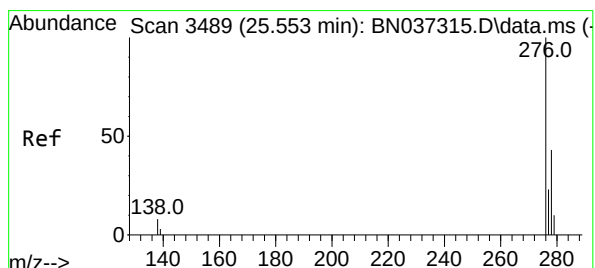
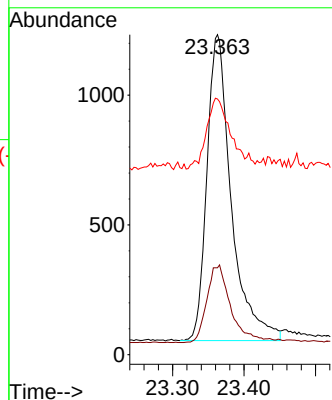
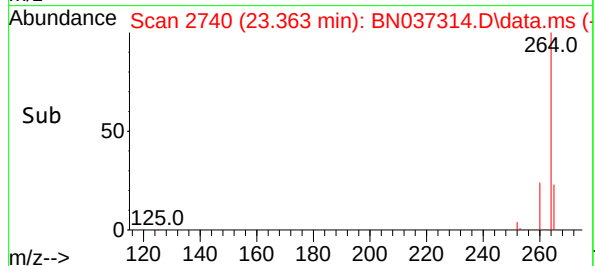
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2



Tgt Ion:264 Resp: 279
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 79.9 71.4 107.0

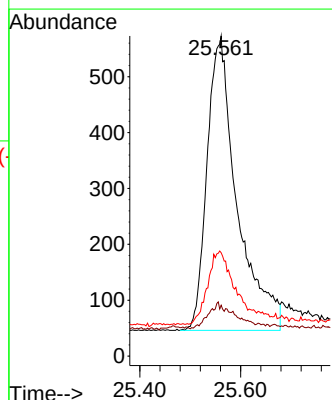
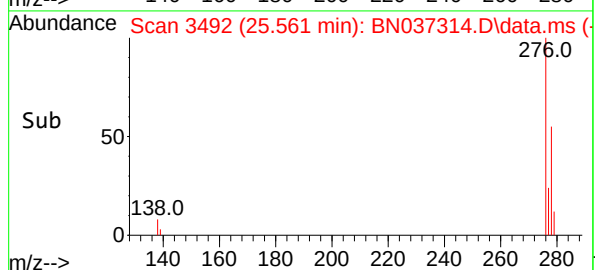
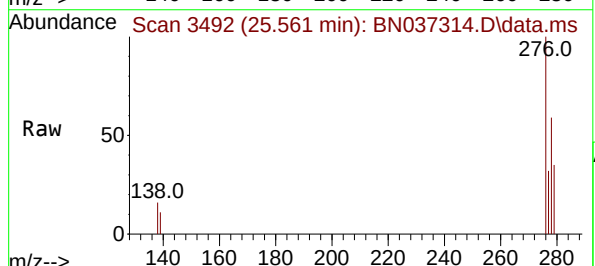
Manual Integrations
APPROVED

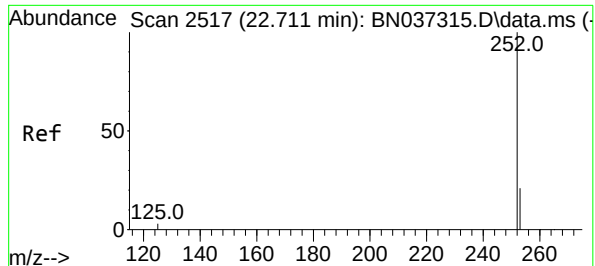
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.185 ng
RT: 25.561 min Scan# 3492
Delta R.T. 0.009 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:276 Resp: 2171
Ion Ratio Lower Upper
276 100
138 4.3 2.2 3.2#
277 22.4 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.178 ng

RT: 22.711 min Scan# 2517

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

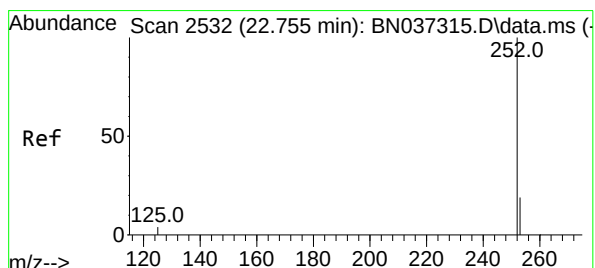
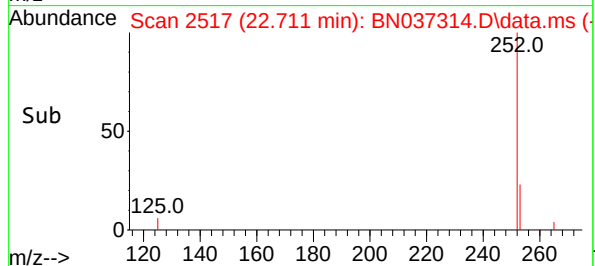
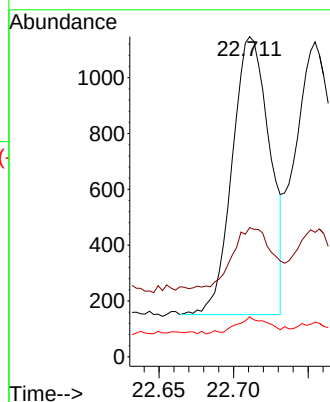
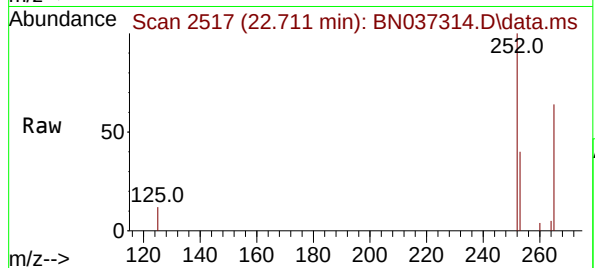
Tgt Ion:252	Resp:	1740
Ion Ratio	Lower	Upper
252	100	
253	40.4	26.6 40.0
125	12.5	6.1 9.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#38

Benzo(k)fluoranthene

Concen: 0.188 ng

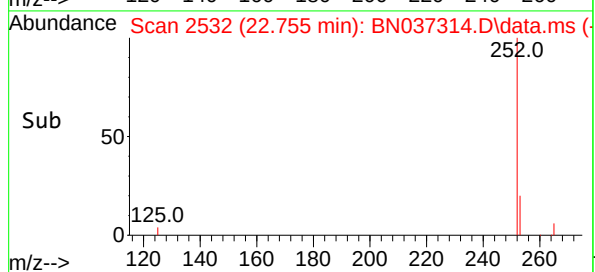
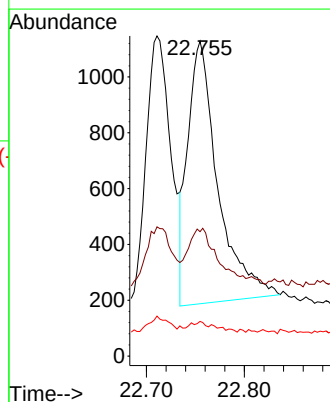
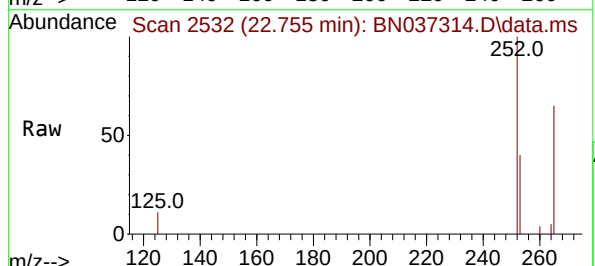
RT: 22.755 min Scan# 2532

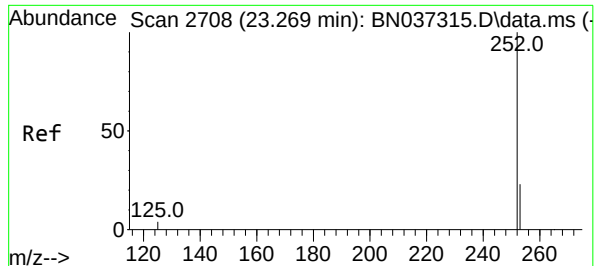
Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Tgt Ion:252	Resp:	2013
Ion Ratio	Lower	Upper
252	100	
253	39.5	26.7 40.1
125	11.0	6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.189 ng

RT: 23.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

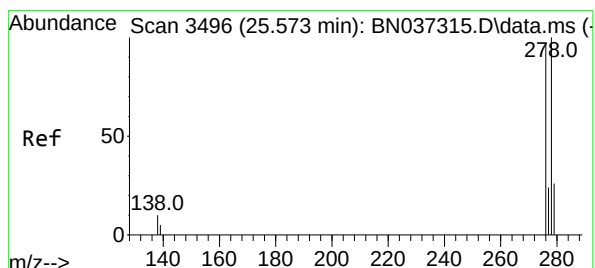
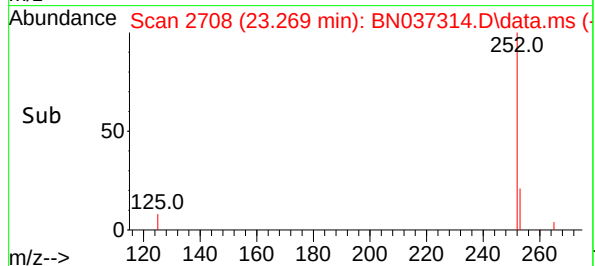
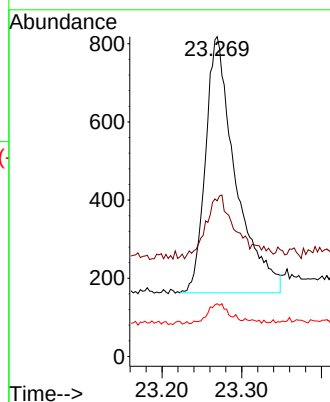
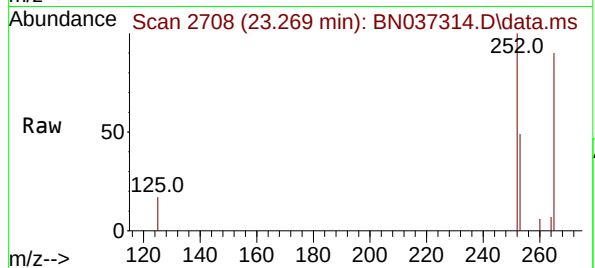
ClientSampleId :

SSTDIC0.2

Tgt Ion:	252	Resp:	171
Ion Ratio	Lower	Upper	
252	100		
253	48.7	31.6	47.4
125	16.5	8.4	12.6

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.186 ng m

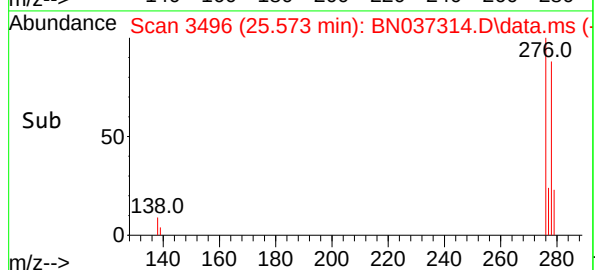
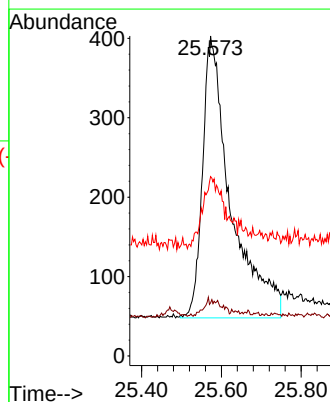
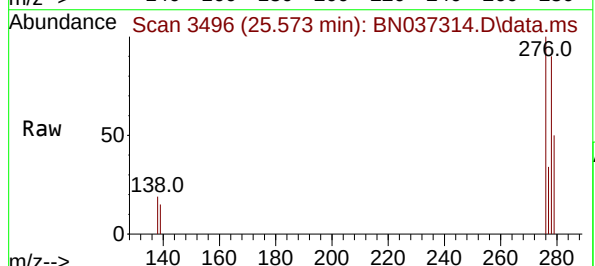
RT: 25.573 min Scan# 3496

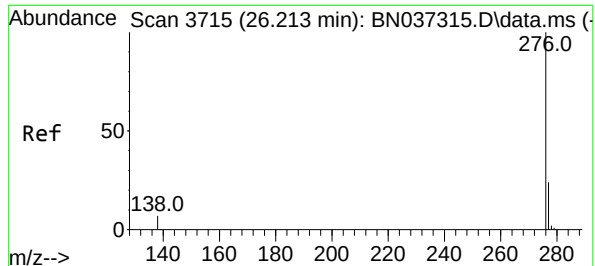
Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Tgt Ion:	278	Resp:	1742
Ion Ratio	Lower	Upper	
278	100		
139	16.6	10.2	15.4
279	56.1	35.6	53.4





#41

Benzo(g,h,i)perylene

Concen: 0.191 ng

RT: 26.216 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037314.D

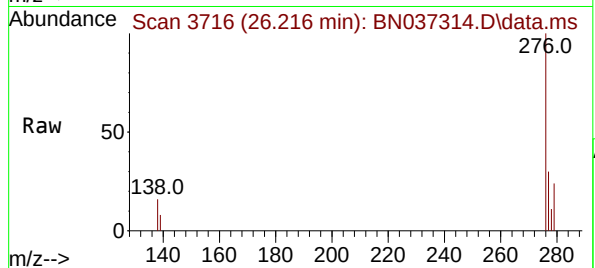
Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion: 276 Resp: 2050

Ion Ratio Lower Upper

276 100

277 30.2 22.7 34.1

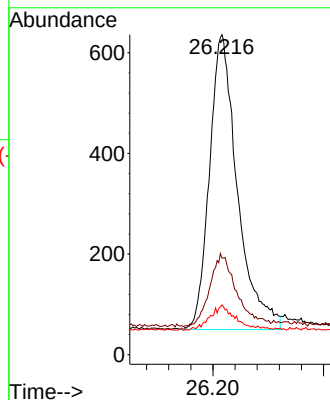
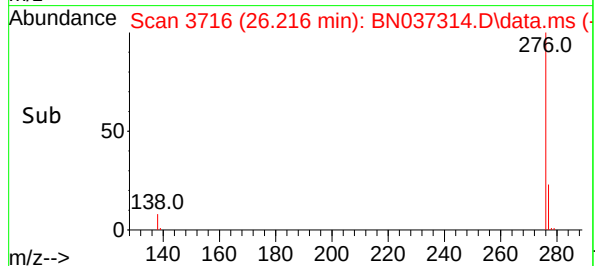
138 15.6 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037315.D
 Acq On : 18 Jun 2025 15:18
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 18 18:32:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:27:59 2025
 Response via : Initial Calibration

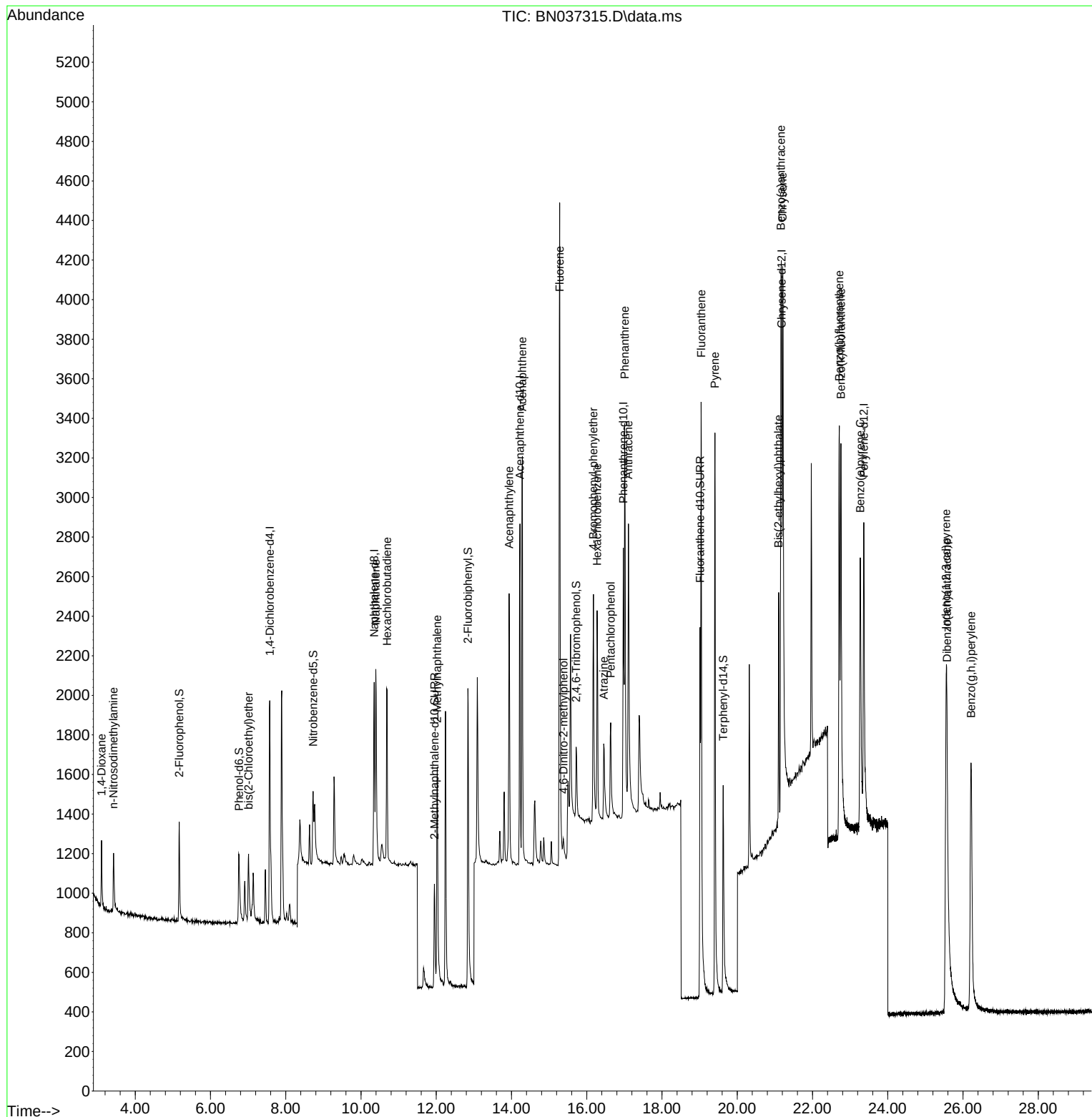
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	642	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1438	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1052	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2272	0.400	ng	0.00
29) Chrysene-d12	21.180	240	2154	0.400	ng	0.00
35) Perylene-d12	23.363	264	2271	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	463	0.397	ng	0.00
5) Phenol-d6	6.759	99	452	0.394	ng	0.00
8) Nitrobenzene-d5	8.728	82	471	0.399	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	989	0.423	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	305	0.404	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1856	0.403	ng	0.00
27) Fluoranthene-d10	19.012	212	2999	0.416	ng	0.00
31) Terphenyl-d14	19.626	244	2061	0.417	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	259	0.452	ng	Qvalue 100
3) n-Nitrosodimethylamine	3.422	42	259	0.390	ng	100
6) bis(2-Chloroethyl)ether	7.012	93	358	0.365	ng	100
9) Naphthalene	10.394	128	1484	0.399	ng	100
10) Hexachlorobutadiene	10.693	225	804	0.427	ng	# 100
12) 2-Methylnaphthalene	12.026	142	1021	0.390	ng	100
16) Acenaphthylene	13.935	152	1710	0.386	ng	100
17) Acenaphthene	14.288	154	1149	0.391	ng	100
18) Fluorene	15.282	166	1629	0.391	ng	100
20) 4,6-Dinitro-2-methylph...	15.379	198	213	0.313	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	718	0.381	ng	100
22) Hexachlorobenzene	16.276	284	826	0.418	ng	100
23) Atrazine	16.450	200	557	0.378	ng	100
24) Pentachlorophenol	16.636	266	388	0.355	ng	100
25) Phenanthrene	17.009	178	2442	0.382	ng	100
26) Anthracene	17.108	178	2262	0.377	ng	100
28) Fluoranthene	19.040	202	3394	0.382	ng	100
30) Pyrene	19.407	202	3450	0.421	ng	100
32) Benzo(a)anthracene	21.162	228	2578	0.372	ng	100
33) Chrysene	21.207	228	3550	0.401	ng	100
34) Bis(2-ethylhexyl)phtha...	21.099	149	1154	0.406	ng	99
36) Indeno(1,2,3-cd)pyrene	25.553	276	3636	0.381	ng	100
37) Benzo(b)fluoranthene	22.711	252	2930	0.369	ng	100
38) Benzo(k)fluoranthene	22.755	252	3469	0.398	ng	100
39) Benzo(a)pyrene	23.269	252	2824	0.384	ng	100
40) Dibenzo(a,h)anthracene	25.573	278	2818	0.371	ng	100
41) Benzo(g,h,i)perylene	26.213	276	3364	0.384	ng	100

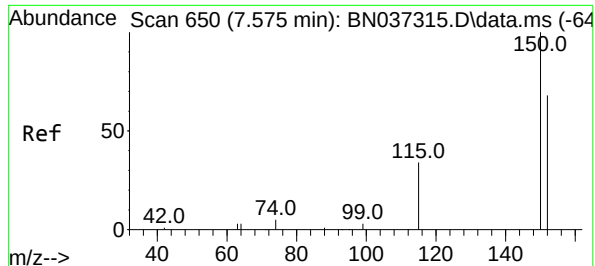
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037315.D
Acq On : 18 Jun 2025 15:18
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 18 18:32:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration

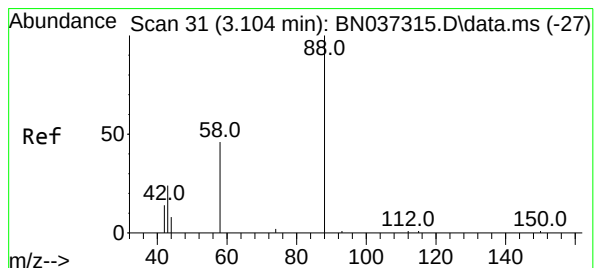
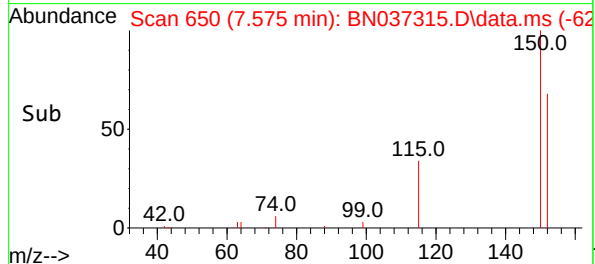
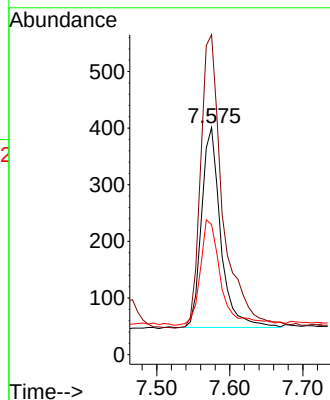
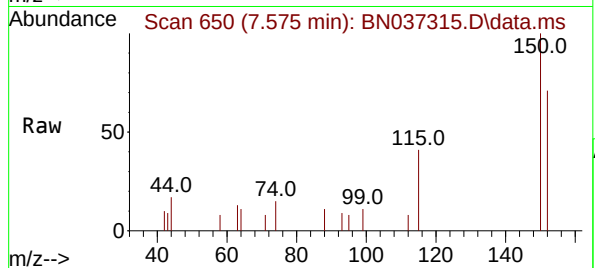




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

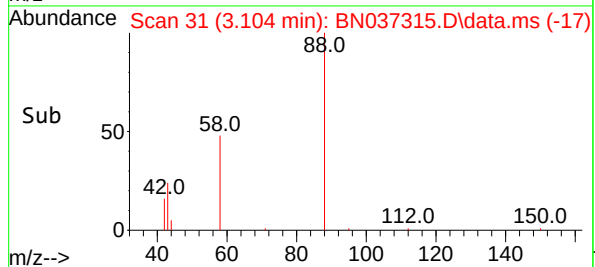
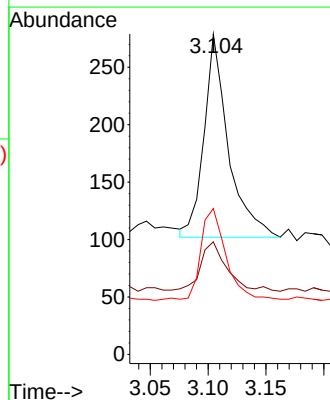
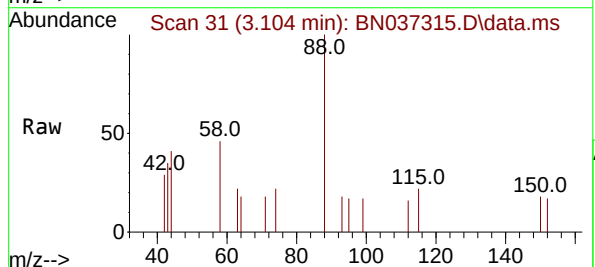
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

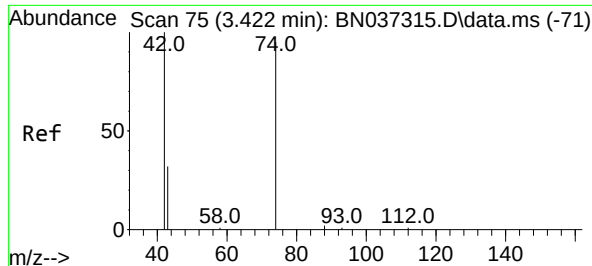
Tgt Ion:152 Resp: 642
Ion Ratio Lower Upper
152 100
150 140.9 112.7 169.1
115 57.4 45.9 68.9



#2
1,4-Dioxane
Concen: 0.452 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion: 88 Resp: 259
Ion Ratio Lower Upper
88 100
43 26.3 21.0 31.6
58 47.5 38.0 57.0

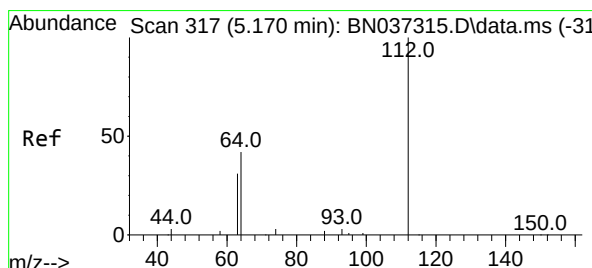
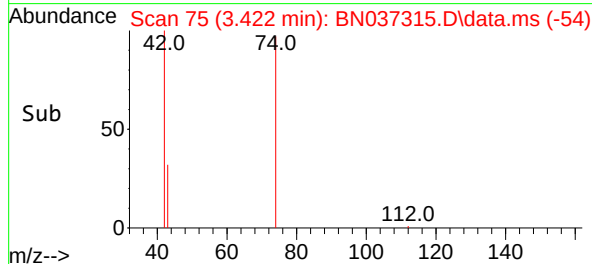
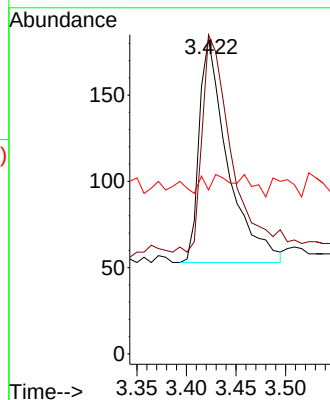
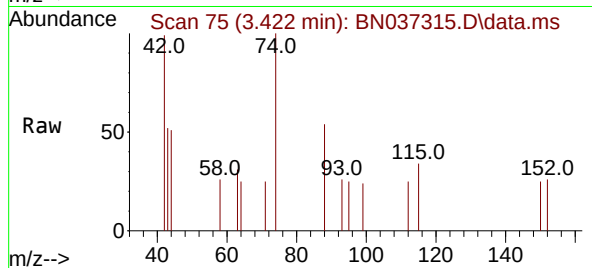




#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.422 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

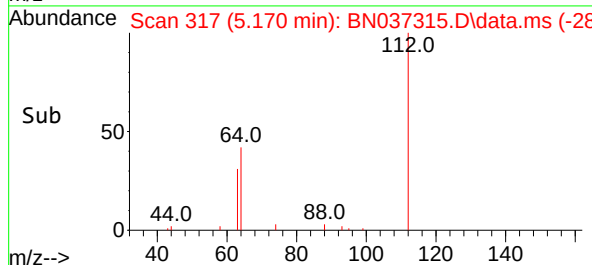
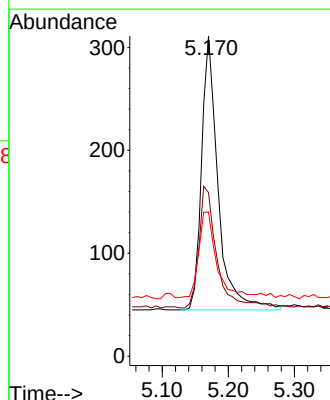
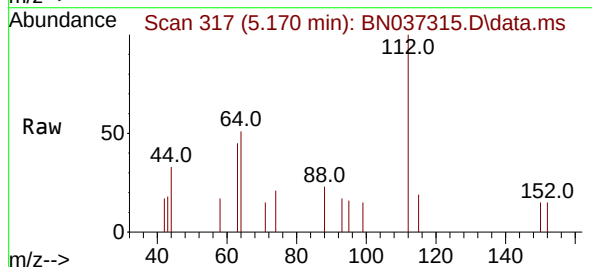
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

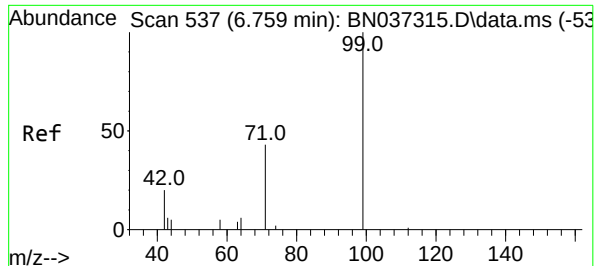
Tgt Ion: 42 Resp: 259
Ion Ratio Lower Upper
42 100
74 105.4 84.3 126.5
44 6.2 5.0 7.4



#4
2-Fluorophenol
Concen: 0.397 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion: 112 Resp: 463
Ion Ratio Lower Upper
112 100
64 48.4 38.7 58.1
63 33.0 26.4 39.6

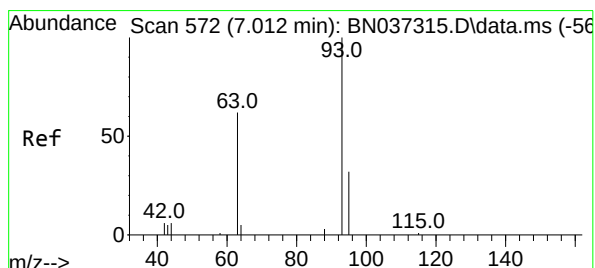
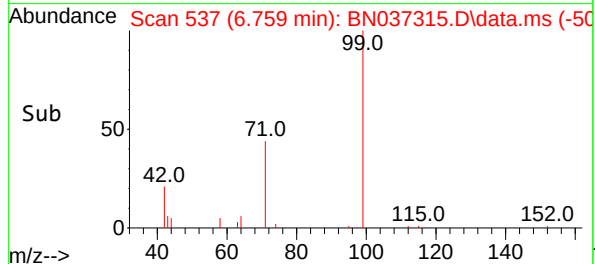
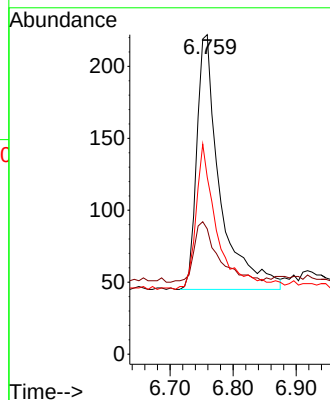
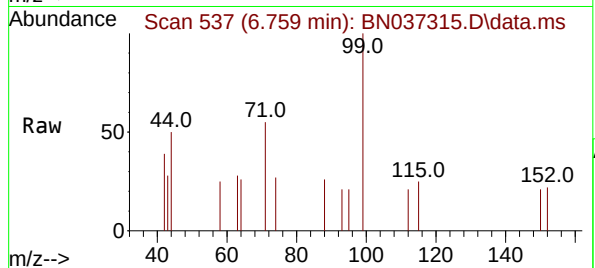




#5
Phenol-d6
Concen: 0.394 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

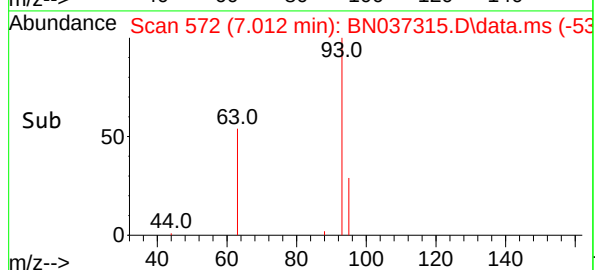
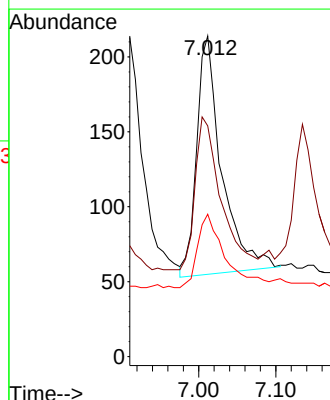
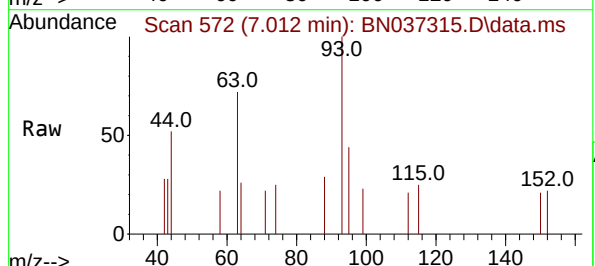
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

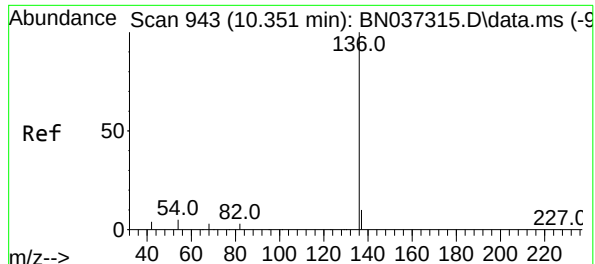
Tgt Ion:	99	Resp:	452
Ion	Ratio	Lower	Upper
99	100		
42	24.8	19.8	29.8
71	53.3	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.365 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion:	93	Resp:	358
Ion	Ratio	Lower	Upper
93	100		
63	66.5	53.2	79.8
95	34.1	27.3	40.9

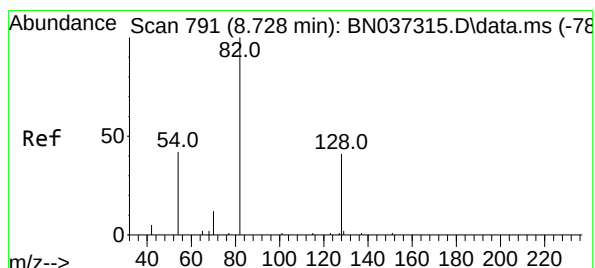
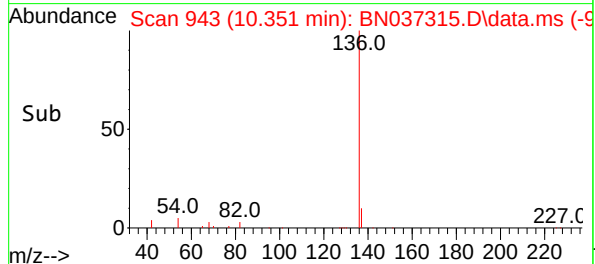
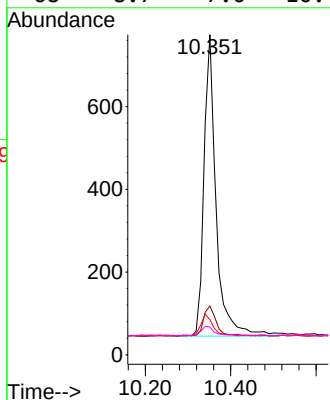
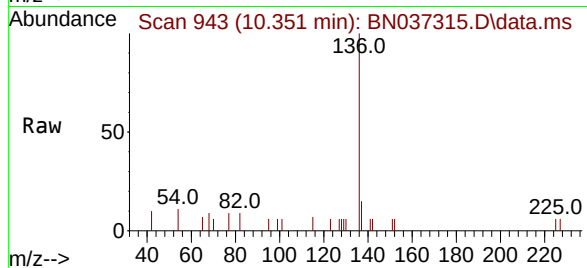




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

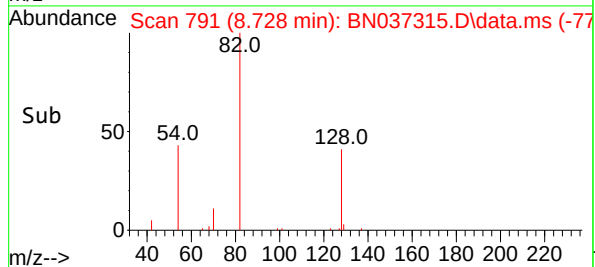
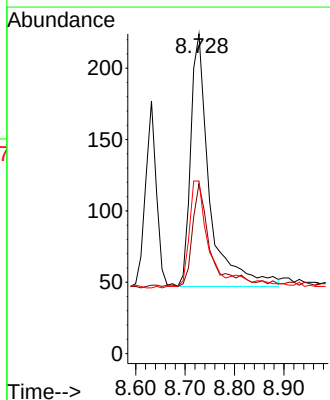
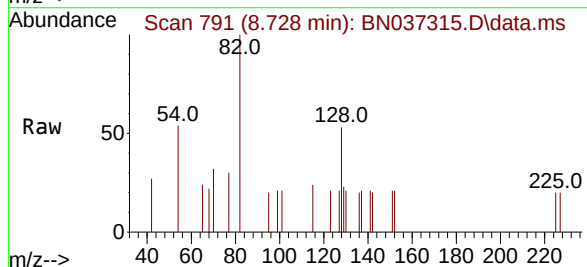
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

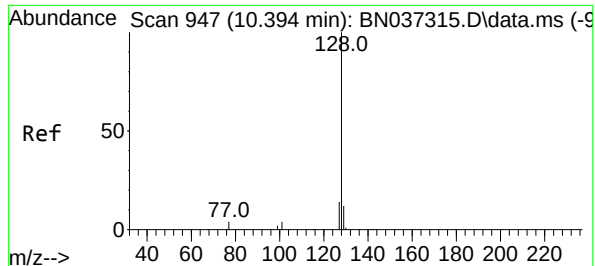
Tgt Ion:	136	Resp:	1438
Ion	Ratio	Lower	Upper
136	100		
137	15.2	12.2	18.2
54	11.0	8.8	13.2
68	8.7	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.399 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion:	82	Resp:	471
Ion	Ratio	Lower	Upper
82	100		
128	53.1	42.5	63.7
54	54.0	43.2	64.8





#9

Naphthalene

Concen: 0.399 ng

RT: 10.394 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

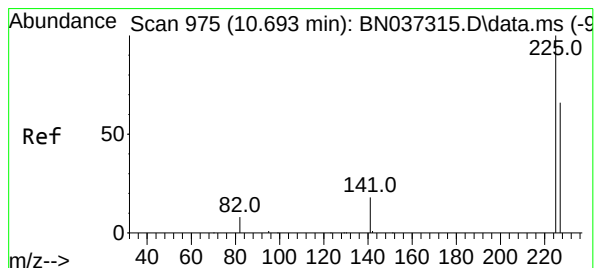
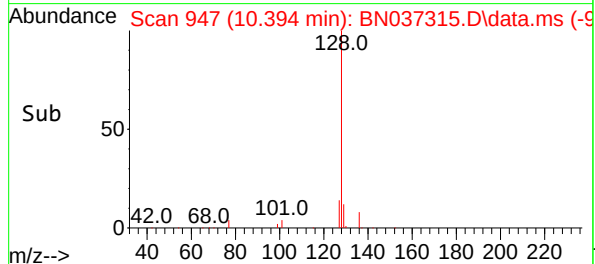
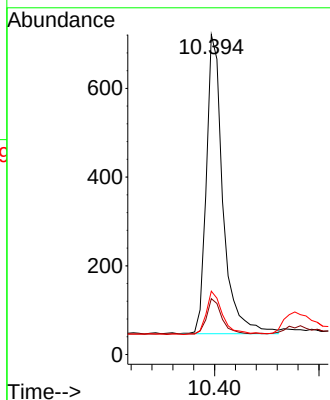
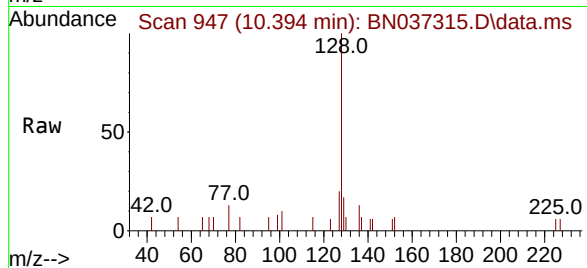
Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Tgt Ion:	128	Resp:	1484
Ion	Ratio	Lower	Upper
128	100		
129	17.5	14.0	21.0
127	19.8	15.8	23.8



#10

Hexachlorobutadiene

Concen: 0.427 ng

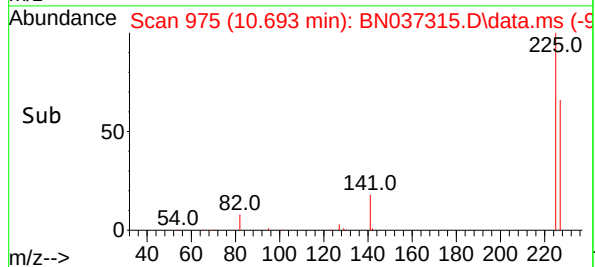
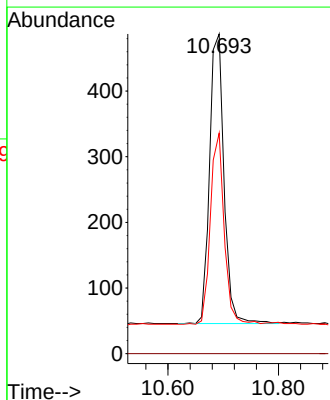
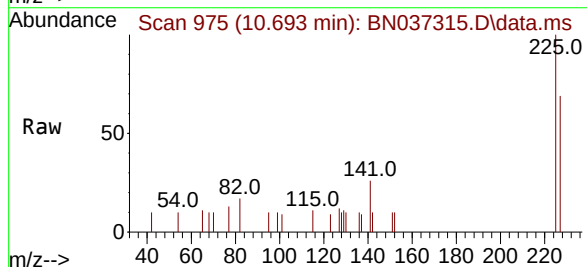
RT: 10.693 min Scan# 975

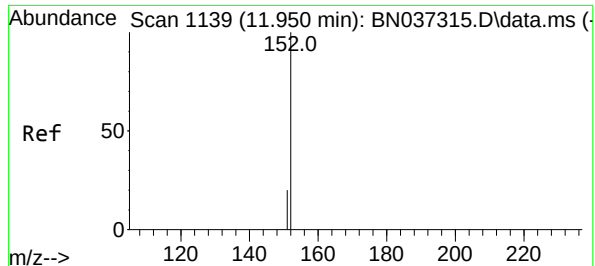
Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Tgt Ion:	225	Resp:	804
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	50.3	75.5

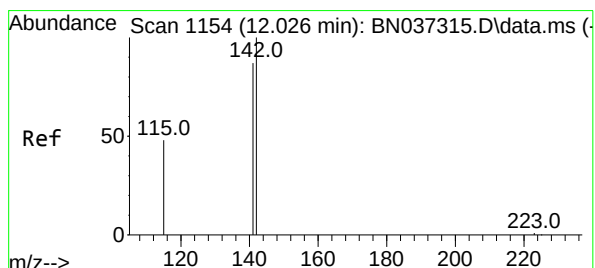
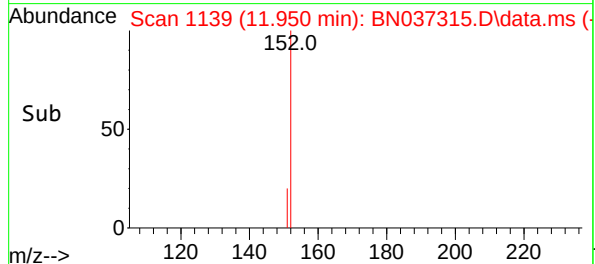
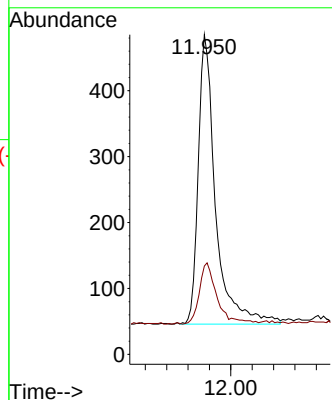
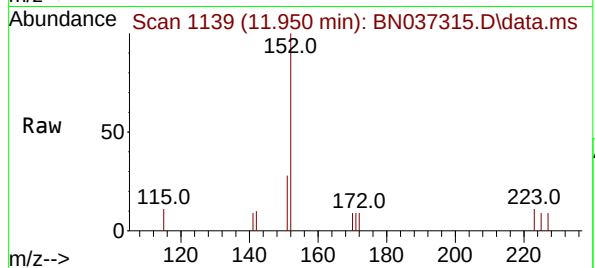




#11
2-Methylnaphthalene-d10
Concen: 0.423 ng
RT: 11.950 min Scan# 1139
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

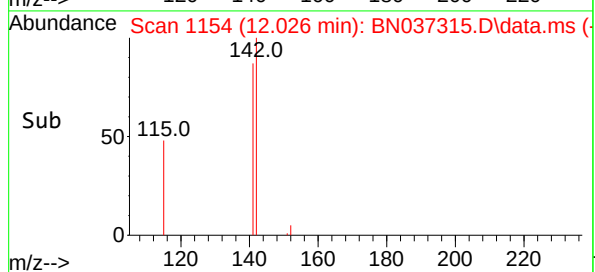
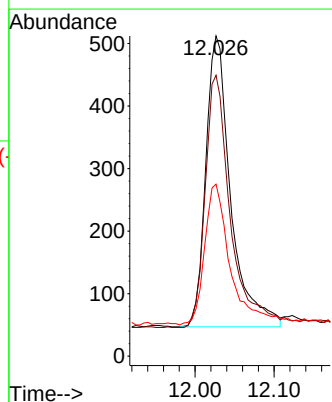
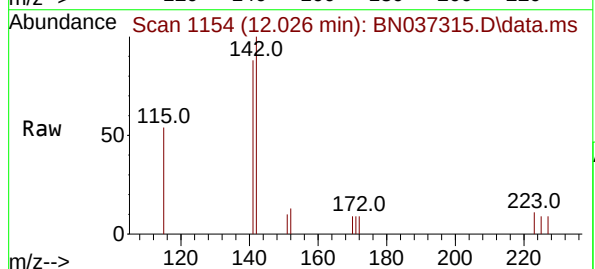
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

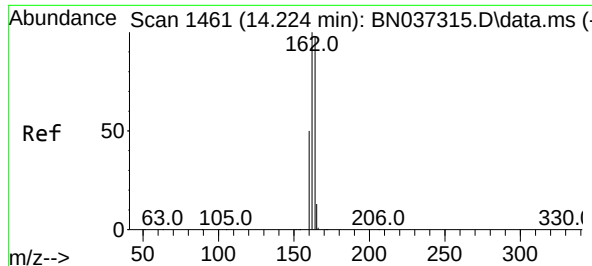
Tgt Ion:152 Resp: 989
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion:142 Resp: 1021
Ion Ratio Lower Upper
142 100
141 87.7 70.2 105.2
115 53.7 43.0 64.4

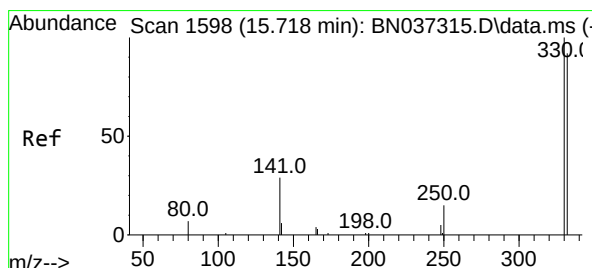
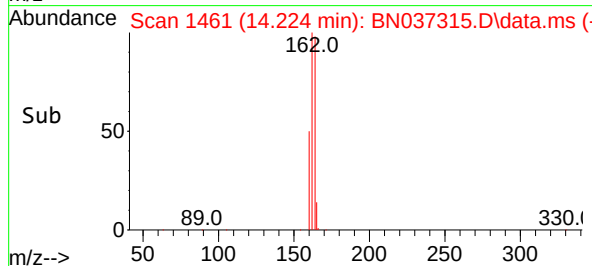
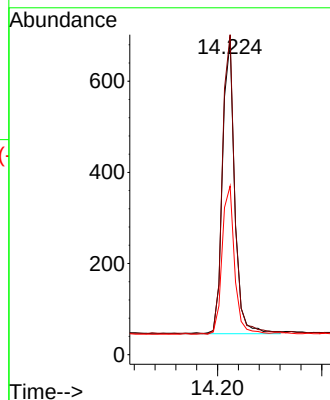
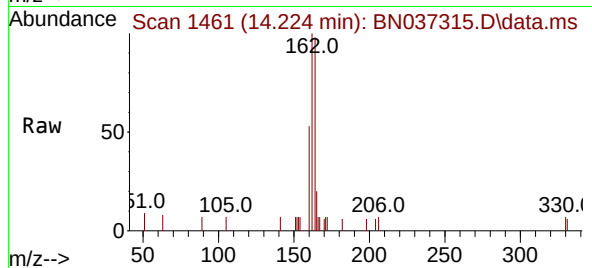




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

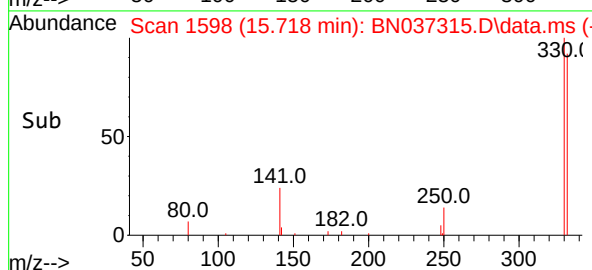
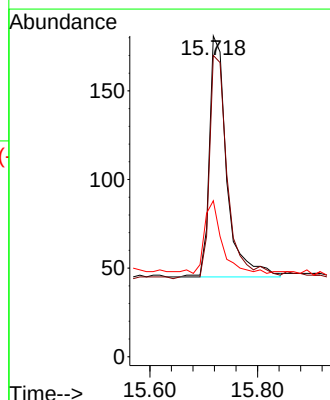
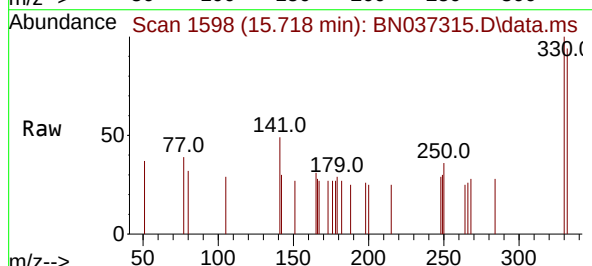
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

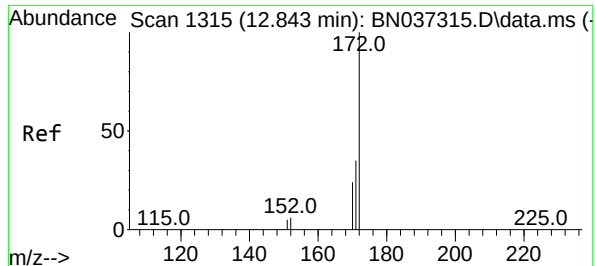
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.5	122.3
160	53.7	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.0	78.4	117.6
141	30.5	24.4	36.6

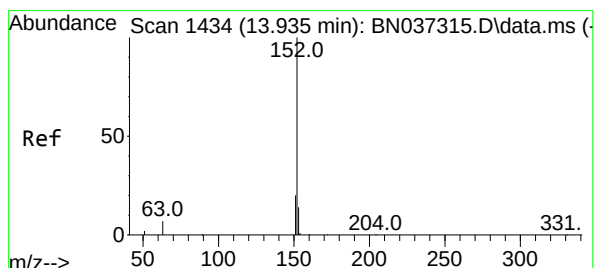
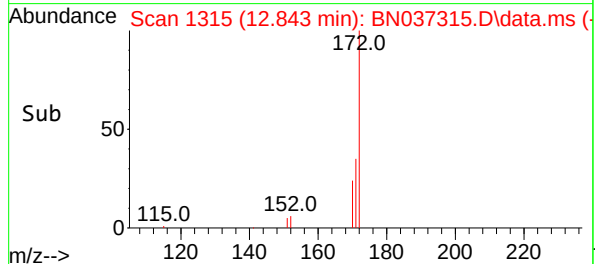
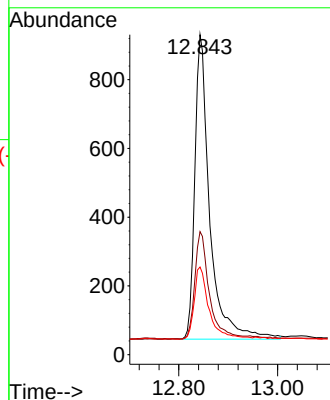
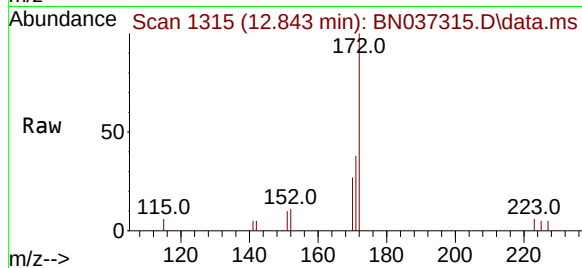




#15
2-Fluorobiphenyl
Concen: 0.403 ng
RT: 12.843 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

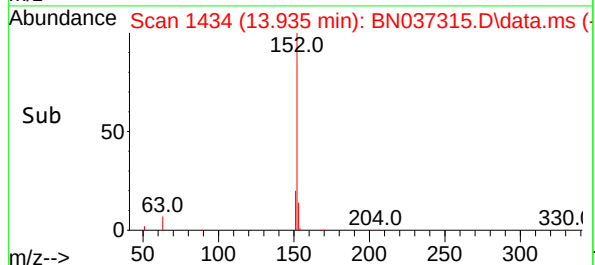
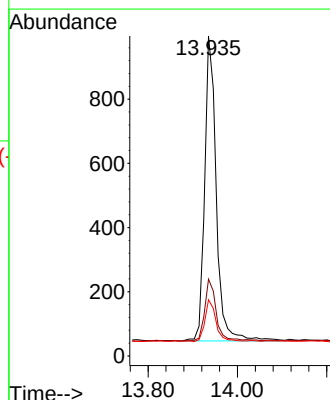
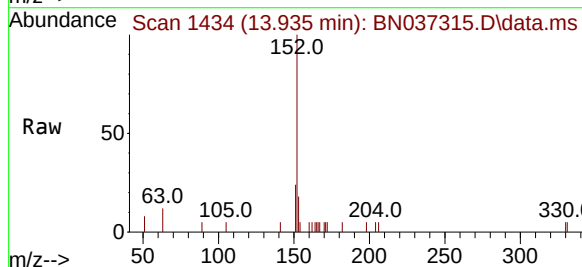
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

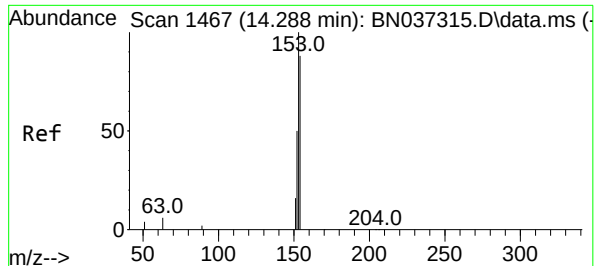
Tgt Ion:	172	Resp:	1856
Ion Ratio	Lower	Upper	
172	100		
171	38.5	30.8	46.2
170	27.4	21.9	32.9



#16
Acenaphthylene
Concen: 0.386 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion:	152	Resp:	1710
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.6	24.8
153	12.7	10.2	15.2





#17

Acenaphthene

Concen: 0.391 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

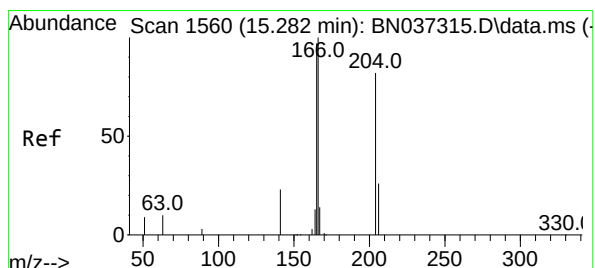
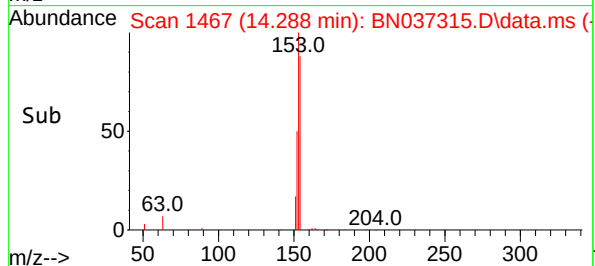
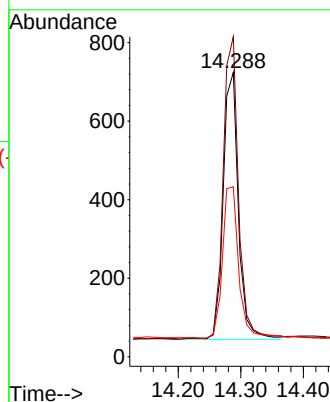
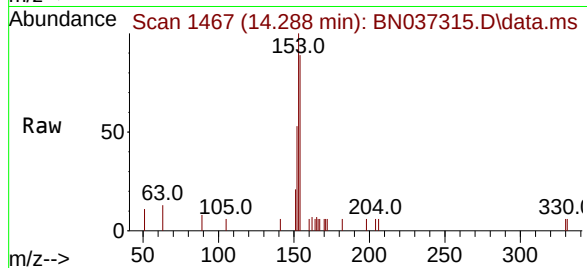
Tgt Ion:154 Resp: 1149

Ion Ratio Lower Upper

154 100

153 116.4 93.1 139.7

152 60.8 48.6 73.0



#18

Fluorene

Concen: 0.391 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

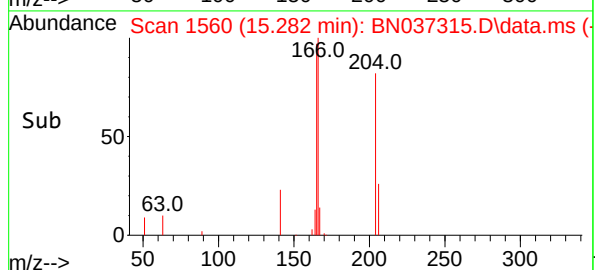
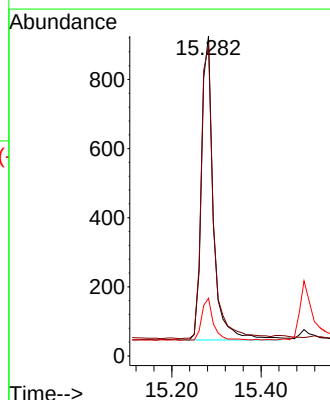
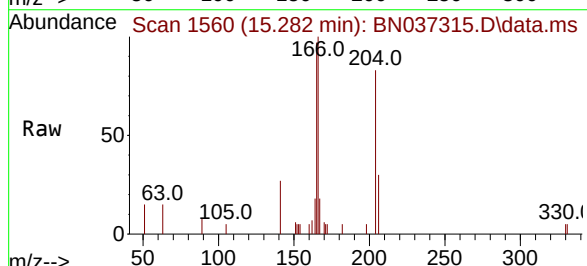
Tgt Ion:166 Resp: 1629

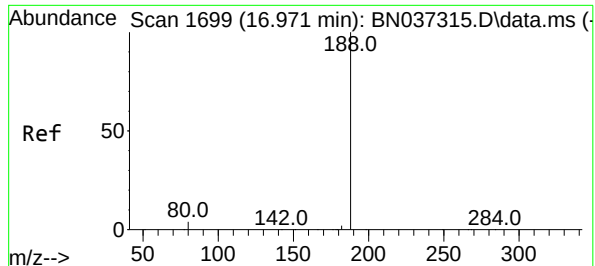
Ion Ratio Lower Upper

166 100

165 99.4 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: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

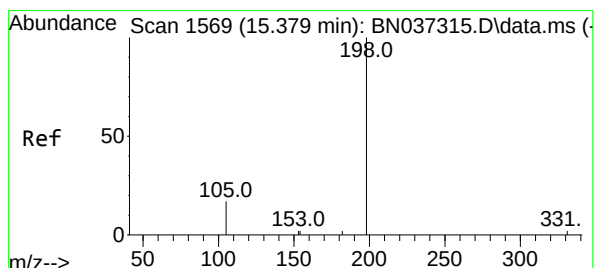
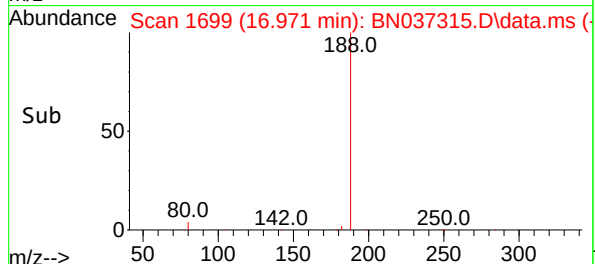
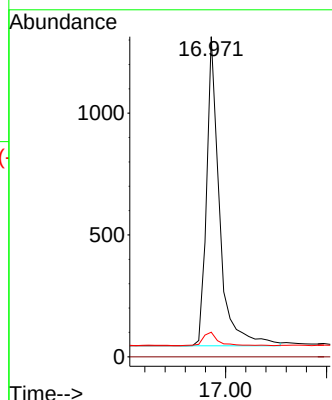
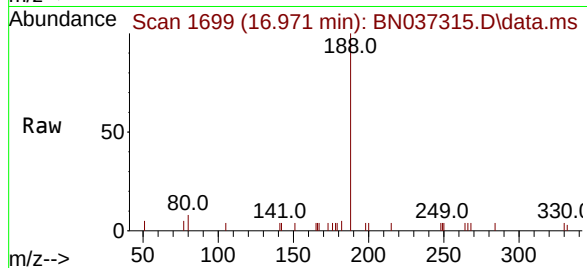
Tgt Ion:188 Resp: 2272

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.7 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.313 ng

RT: 15.379 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

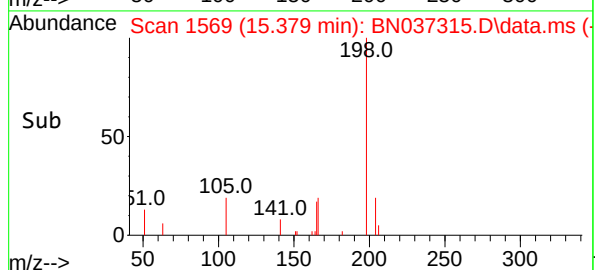
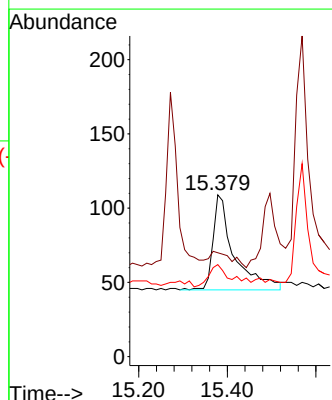
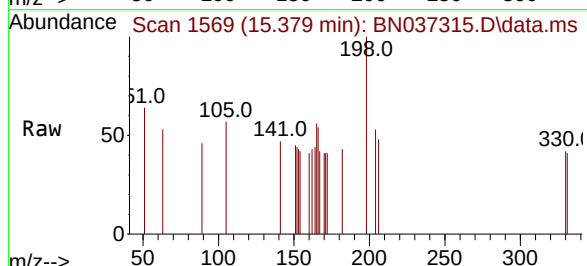
Tgt Ion:198 Resp: 213

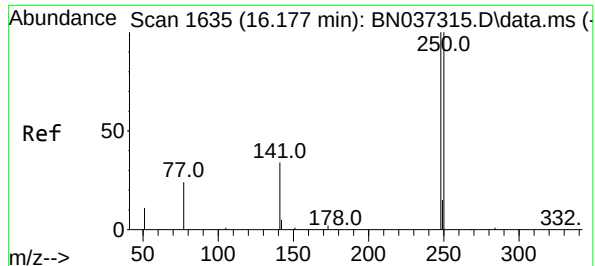
Ion Ratio Lower Upper

198 100

51 64.2 51.4 77.0

105 56.9 45.5 68.3

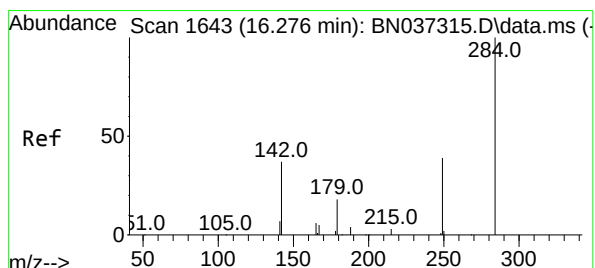
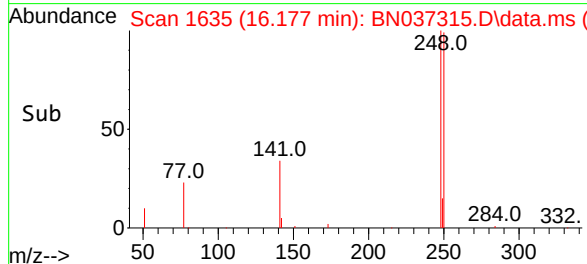
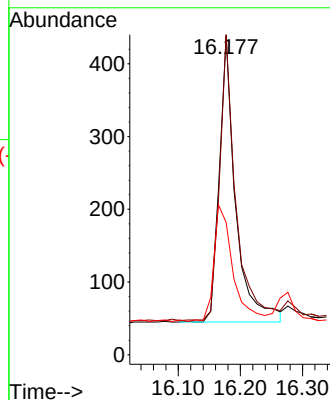
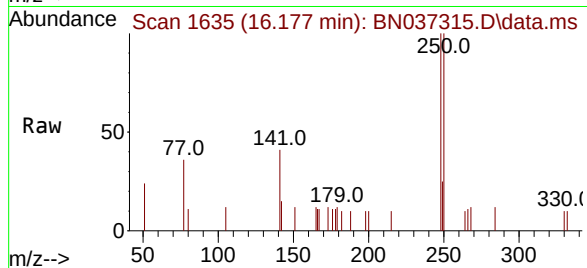




#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

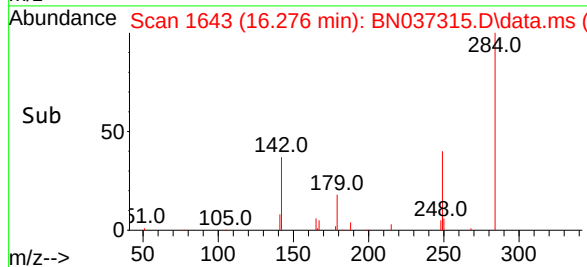
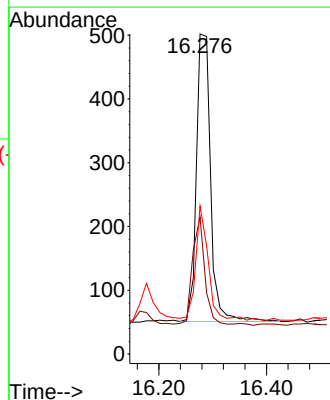
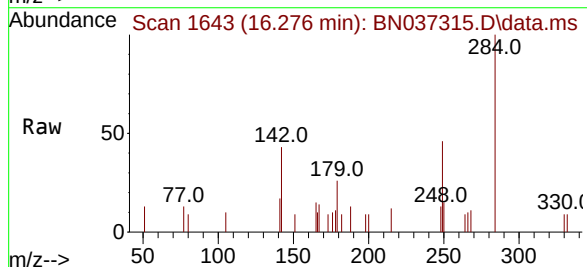
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

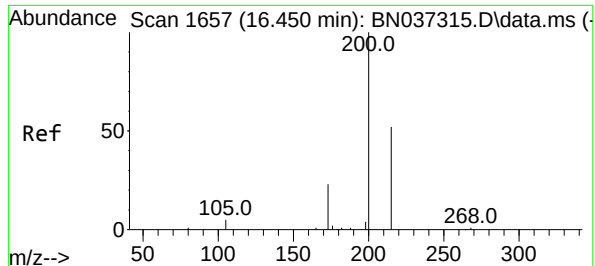
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.5	80.4	120.6
141	41.6	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.418 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.8	27.0	40.6
249	36.0	28.8	43.2

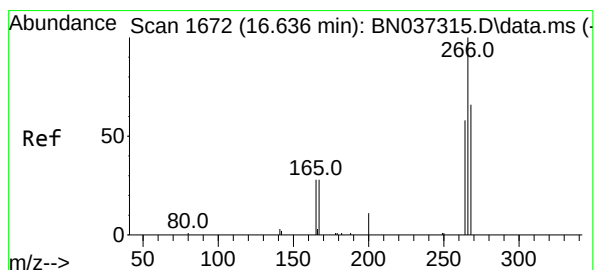
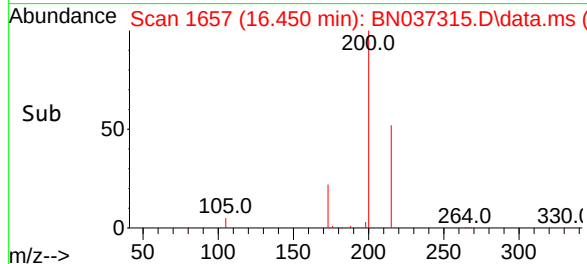
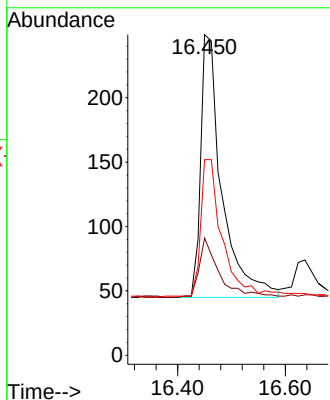
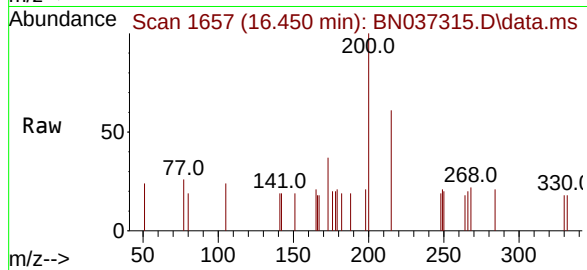




#23
Atrazine
Concen: 0.378 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

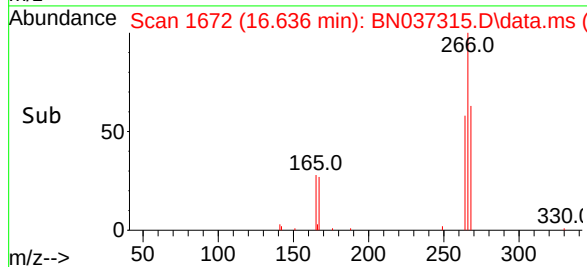
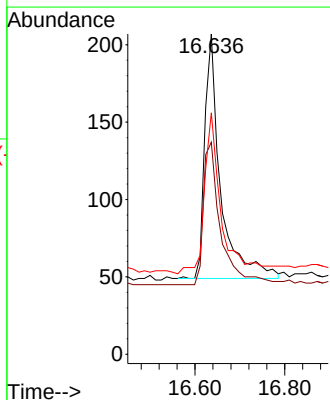
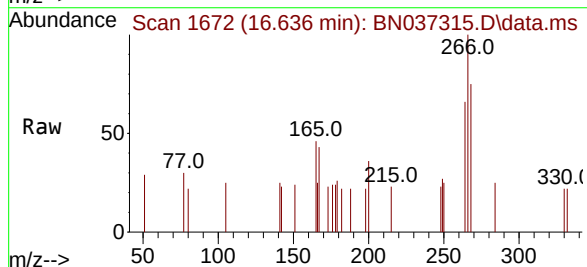
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

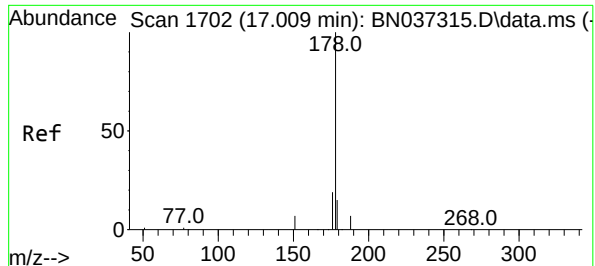
Tgt Ion	Ratio	Lower	Upper
200	100		
173	36.5	29.2	43.8
215	61.0	48.8	73.2



#24
Pentachlorophenol
Concen: 0.355 ng
RT: 16.636 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.3	75.5
268	69.1	55.3	82.9





#25

Phenanthrene

Concen: 0.382 ng

RT: 17.009 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

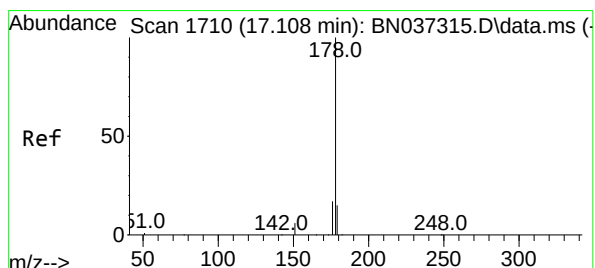
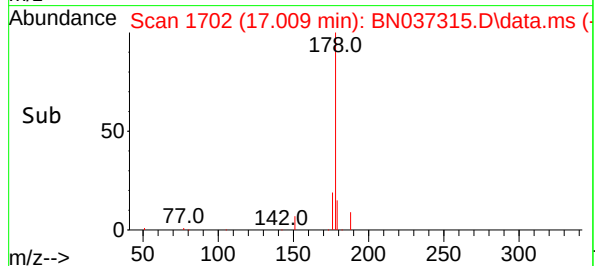
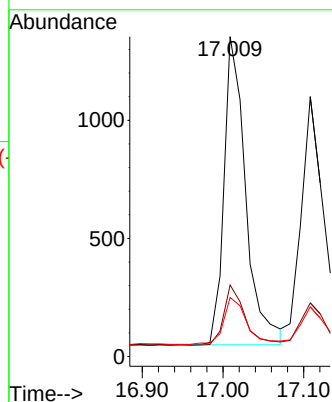
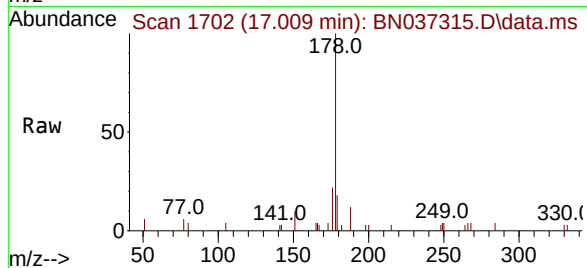
Tgt Ion:178 Resp: 2442

Ion Ratio Lower Upper

178 100

176 19.0 15.2 22.8

179 16.1 12.9 19.3



#26

Anthracene

Concen: 0.377 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

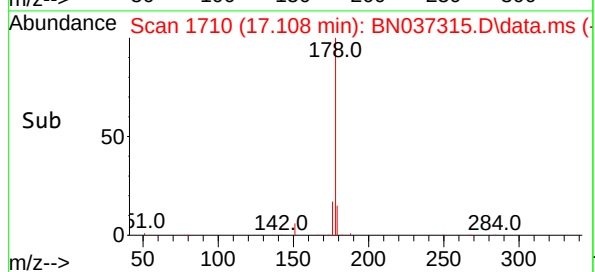
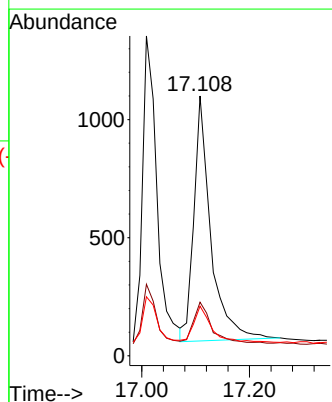
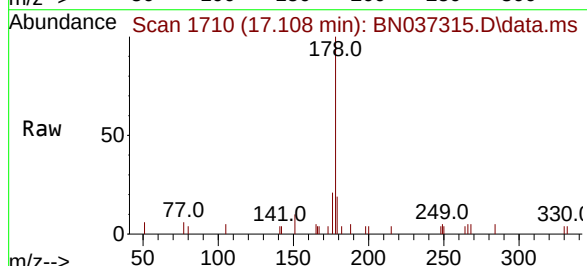
Tgt Ion:178 Resp: 2262

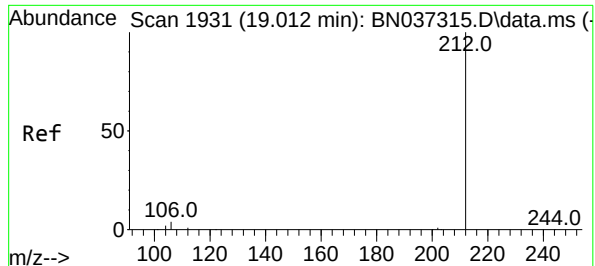
Ion Ratio Lower Upper

178 100

176 18.4 14.7 22.1

179 16.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.416 ng

RT: 19.012 min Scan# 1931

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

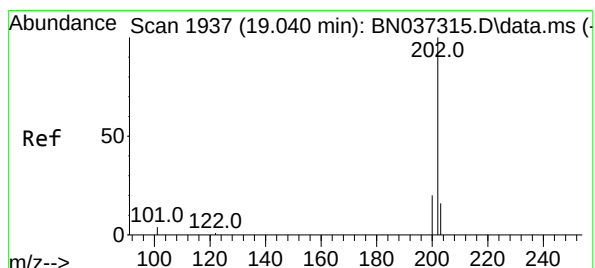
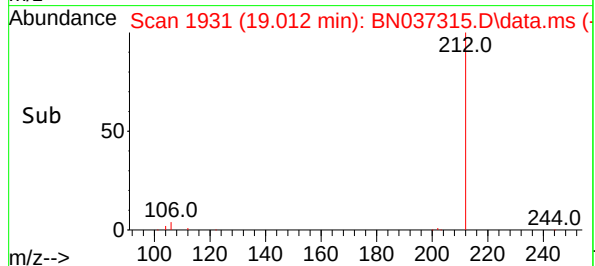
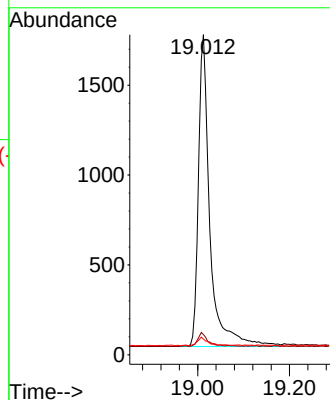
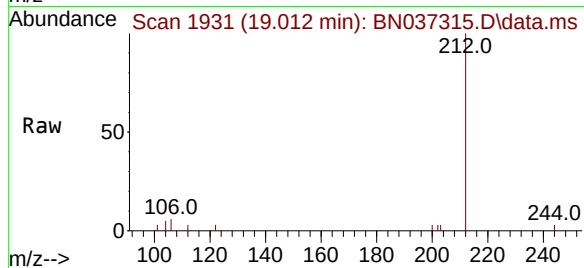
Tgt Ion:212 Resp: 2999

Ion Ratio Lower Upper

212 100

106 3.7 3.0 4.4

104 2.5 2.0 3.0



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.040 min Scan# 1937

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

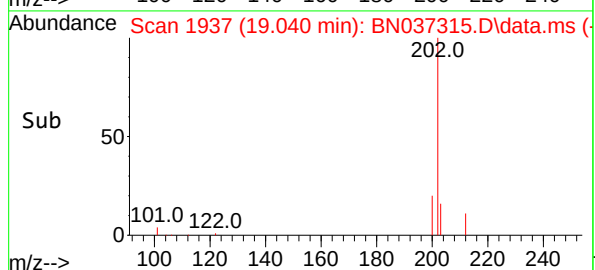
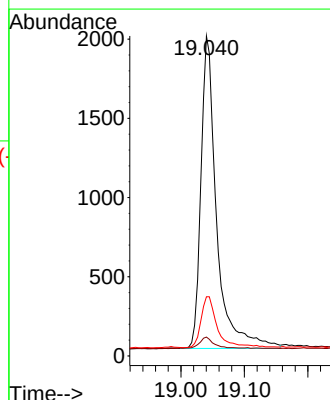
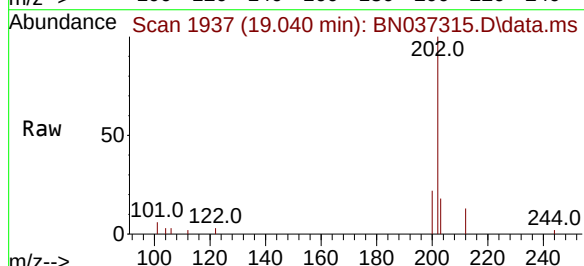
Tgt Ion:202 Resp: 3394

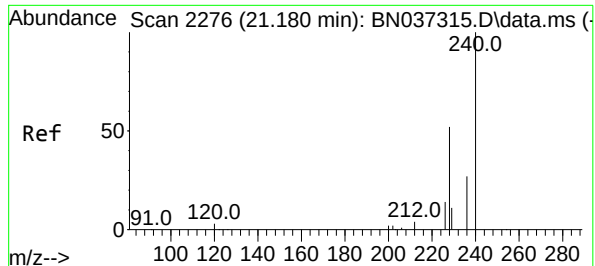
Ion Ratio Lower Upper

202 100

101 3.8 3.0 4.6

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

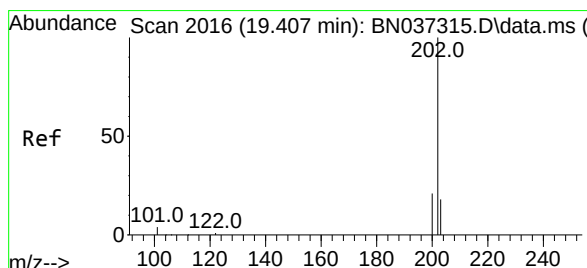
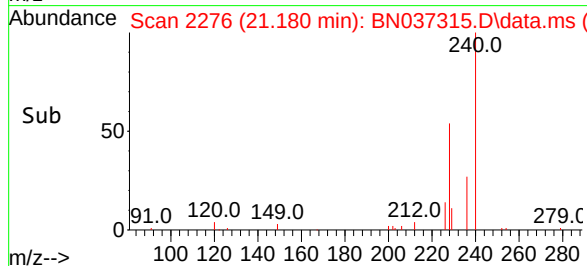
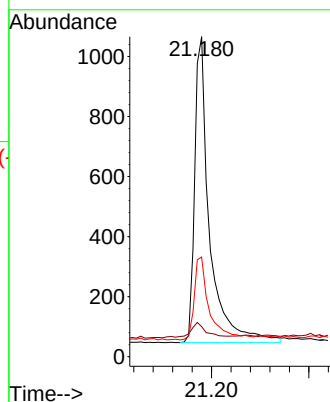
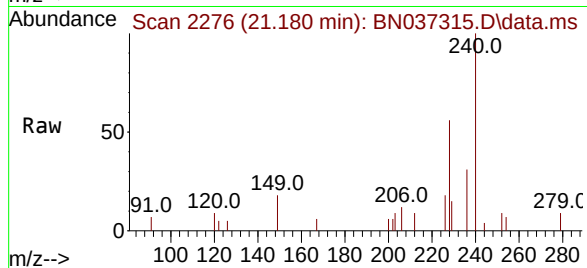
Tgt Ion:240 Resp: 2154

Ion Ratio Lower Upper

240 100

120 9.4 7.5 11.3

236 31.1 24.9 37.3



#30

Pyrene

Concen: 0.421 ng

RT: 19.407 min Scan# 2016

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

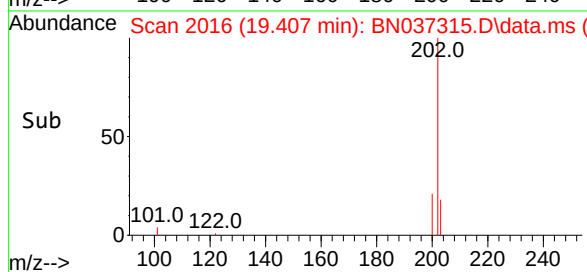
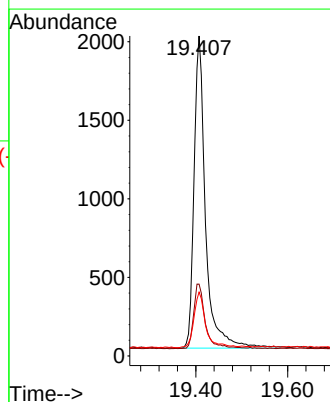
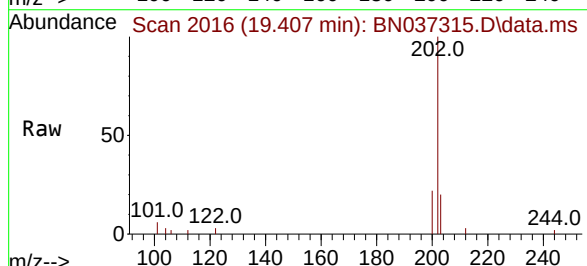
Tgt Ion:202 Resp: 3450

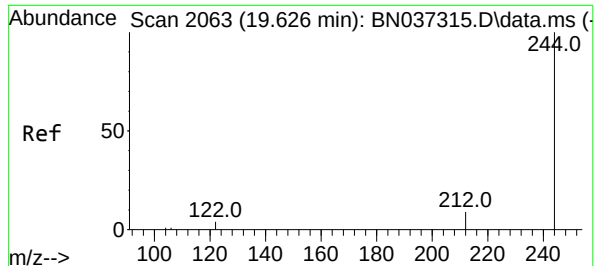
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 18.1 14.5 21.7

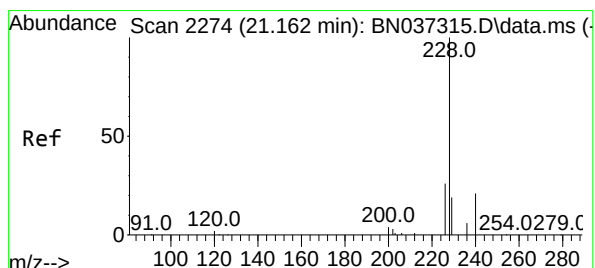
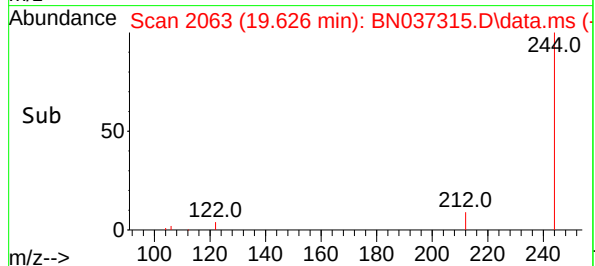
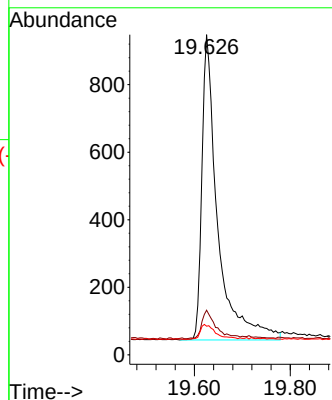
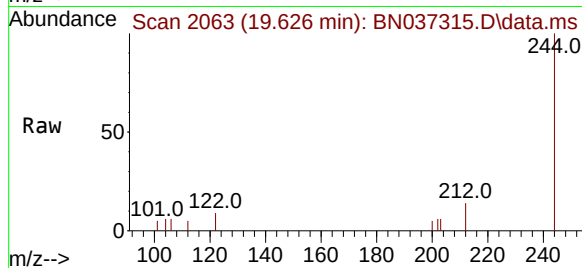




#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.626 min Scan# 2063
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

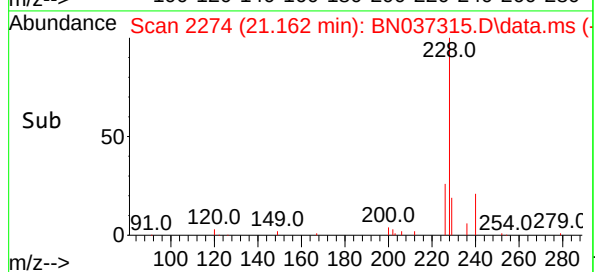
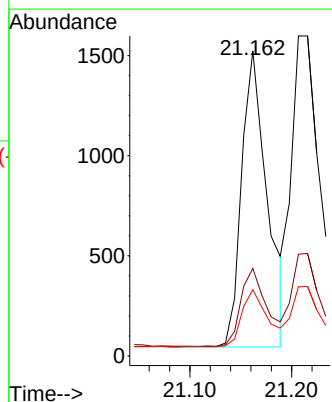
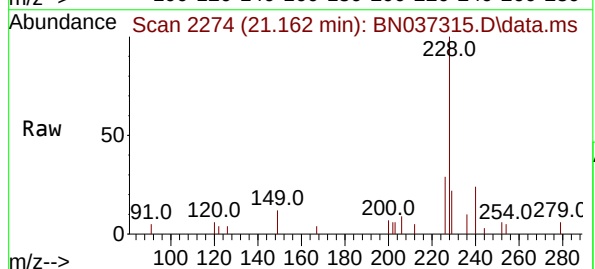
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

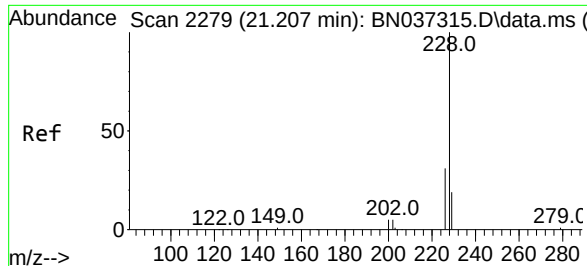
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.9	11.1	16.7
122	9.0	7.2	10.8



#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	23.0	34.4
229	21.7	17.4	26.0





#33

Chrysene

Concen: 0.401 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

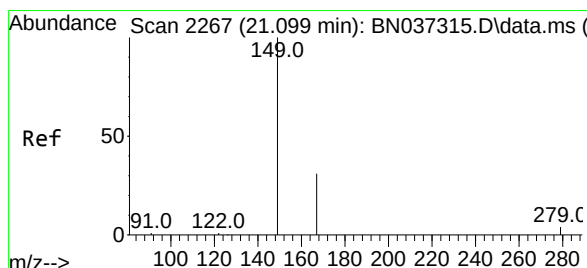
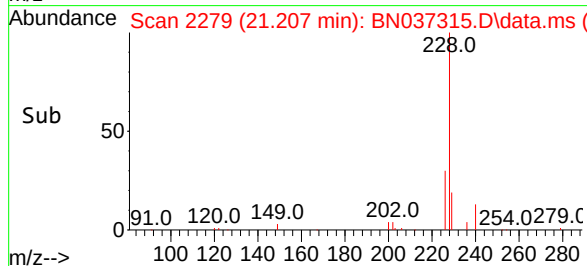
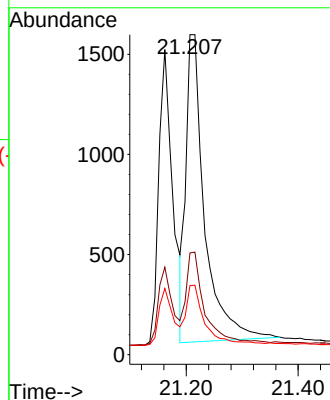
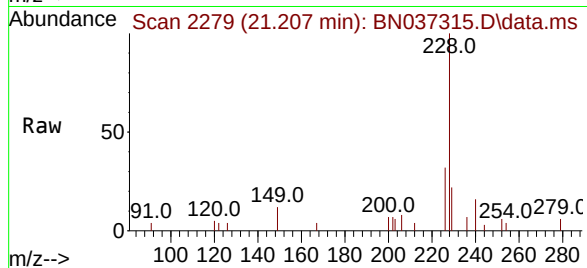
Tgt Ion:228 Resp: 3550

Ion Ratio Lower Upper

228 100

226 31.8 25.4 38.2

229 21.6 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.406 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

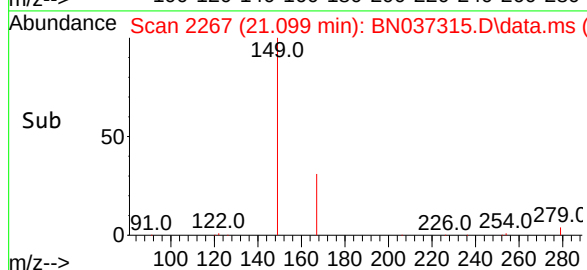
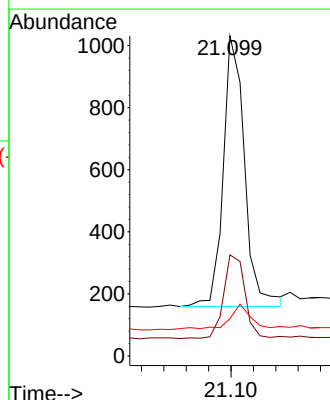
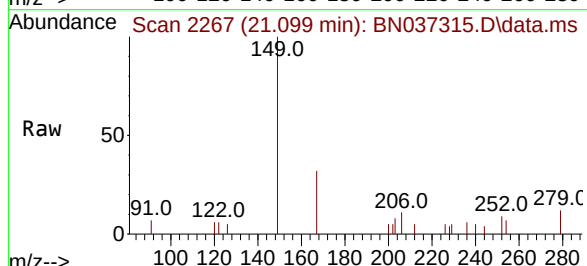
Tgt Ion:149 Resp: 1154

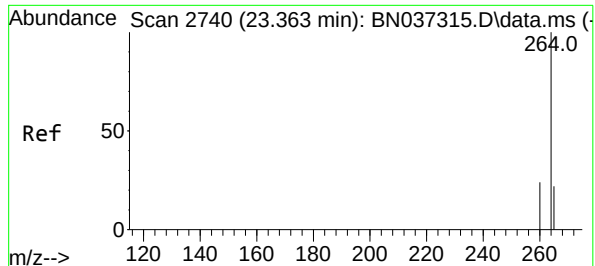
Ion Ratio Lower Upper

149 100

167 30.8 24.6 37.0

279 9.4 6.5 9.7

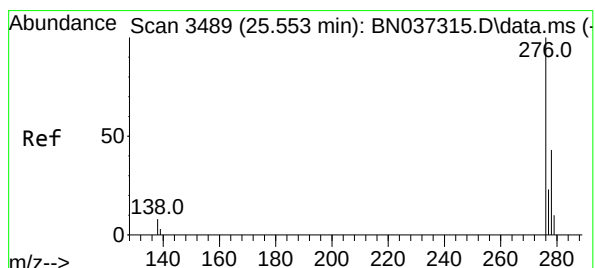
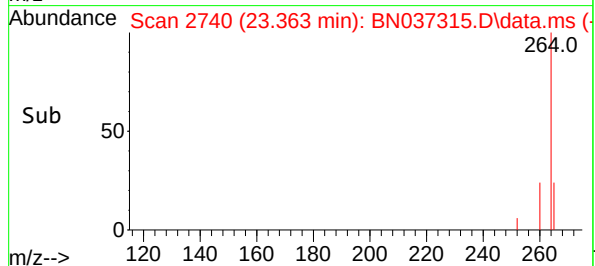
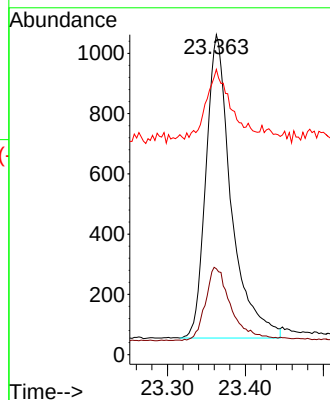
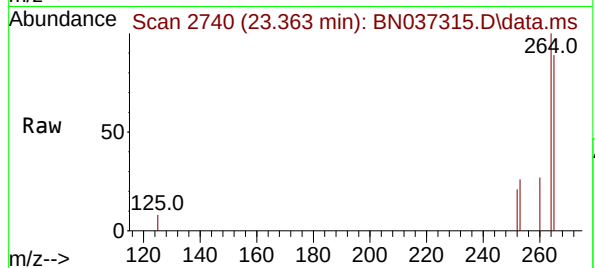




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

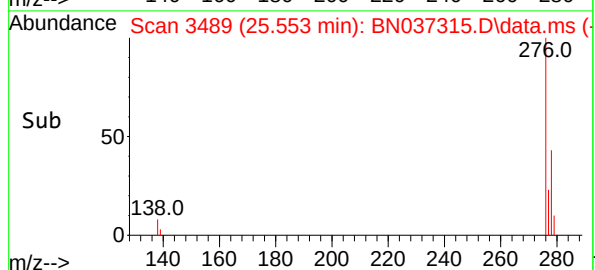
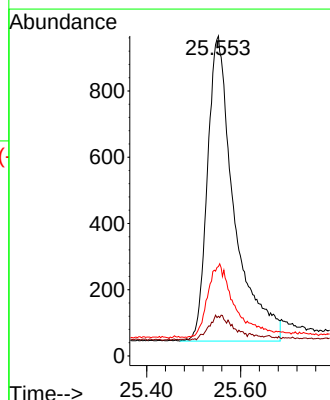
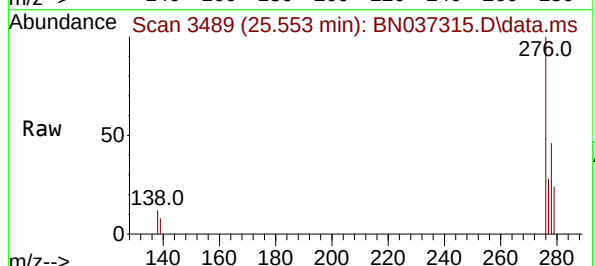
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

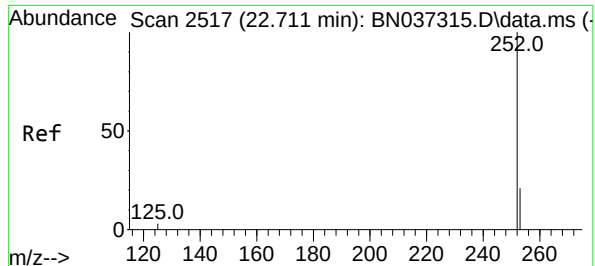
Tgt Ion:264 Resp: 2271
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.2
265 89.2 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.381 ng
RT: 25.553 min Scan# 3489
Delta R.T. 0.000 min
Lab File: BN037315.D
Acq: 18 Jun 2025 15:18

Tgt Ion:276 Resp: 3636
Ion Ratio Lower Upper
276 100
138 2.7 2.2 3.2
277 21.4 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.369 ng

RT: 22.711 min Scan# 2517

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

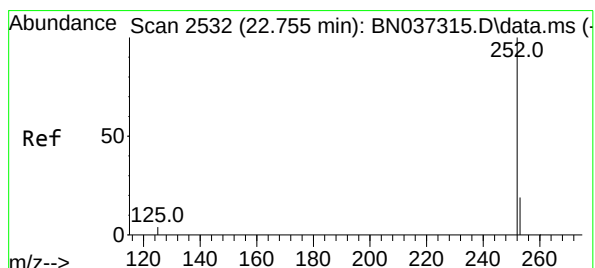
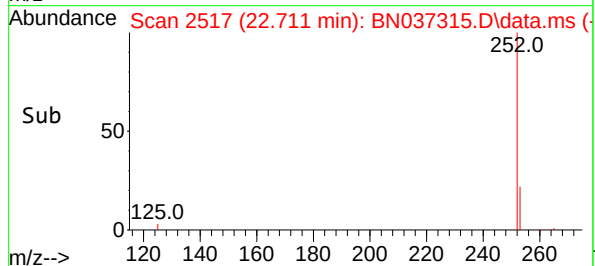
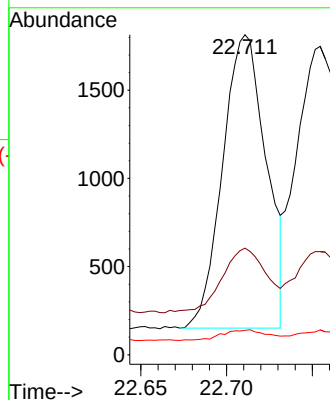
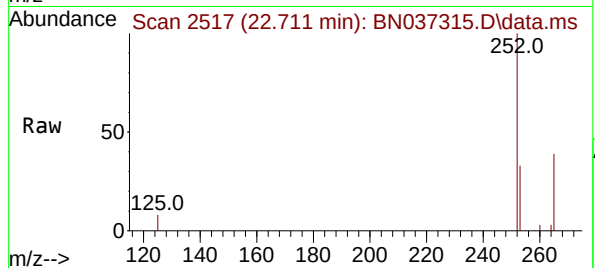
Tgt Ion:252 Resp: 2930

Ion Ratio Lower Upper

252 100

253 33.3 26.6 40.0

125 7.6 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 0.398 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

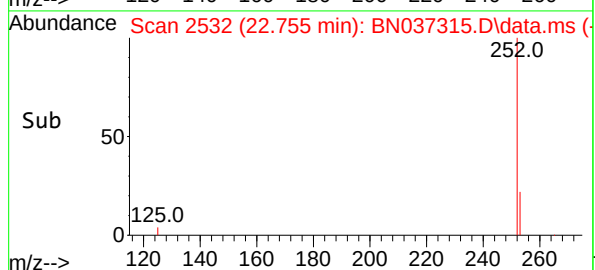
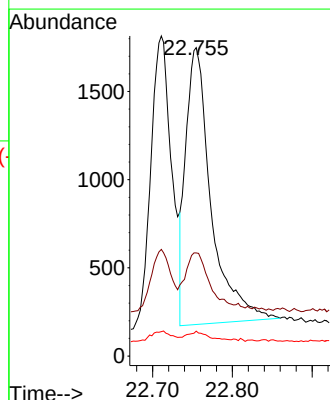
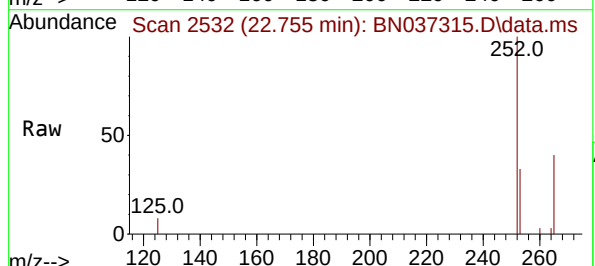
Tgt Ion:252 Resp: 3469

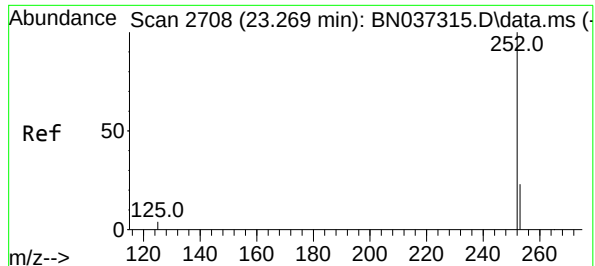
Ion Ratio Lower Upper

252 100

253 33.4 26.7 40.1

125 8.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.384 ng

RT: 23.269 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

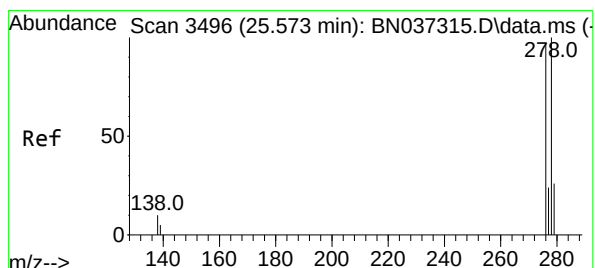
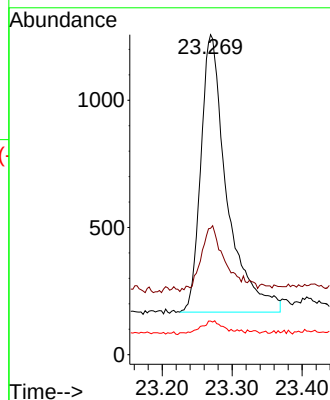
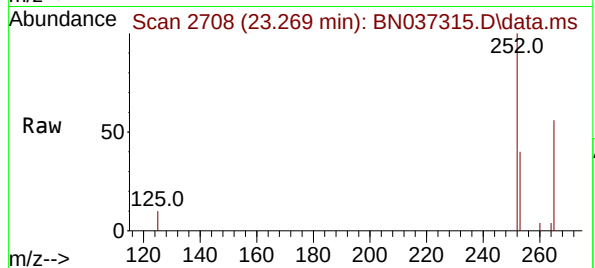
Tgt Ion:252 Resp: 2824

Ion Ratio Lower Upper

252 100

253 39.5 31.6 47.4

125 10.5 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.371 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037315.D

Acq: 18 Jun 2025 15:18

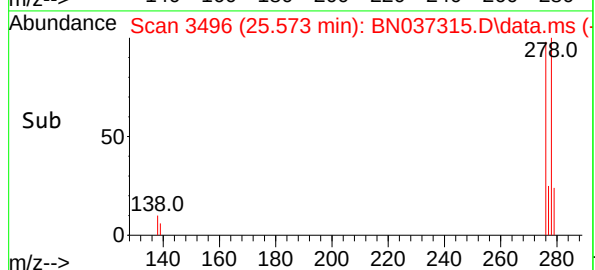
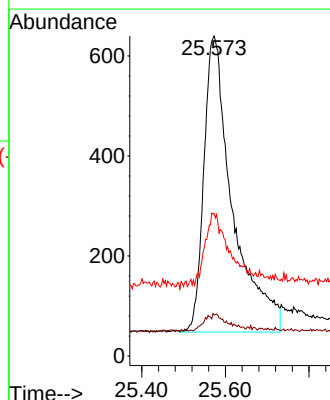
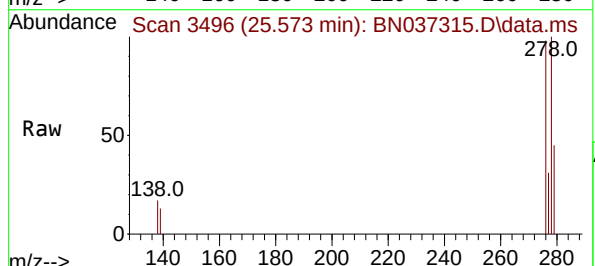
Tgt Ion:278 Resp: 2818

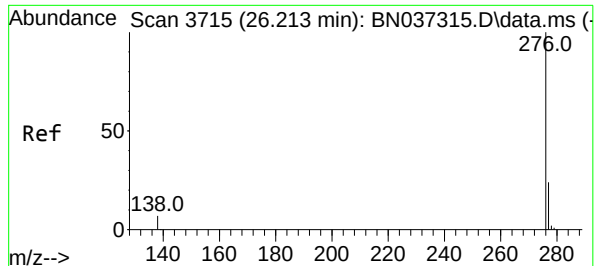
Ion Ratio Lower Upper

278 100

139 12.8 10.2 15.4

279 44.5 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.384 ng

RT: 26.213 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037315.D

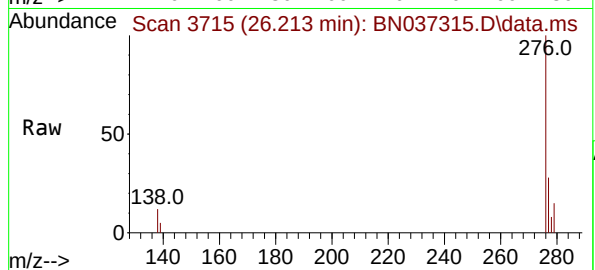
Acq: 18 Jun 2025 15:18

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



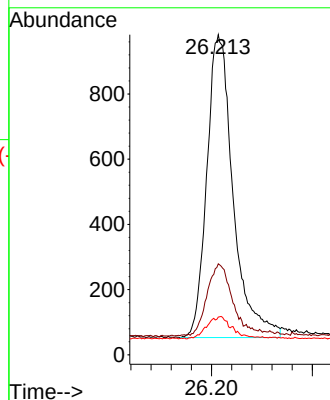
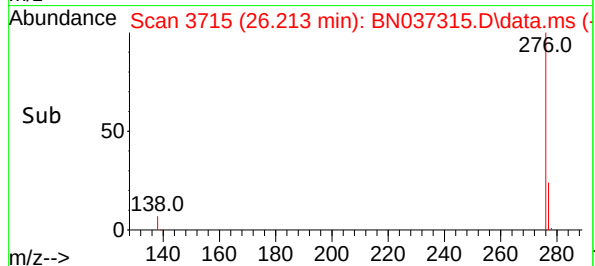
Tgt Ion:276 Resp: 3364

Ion Ratio Lower Upper

276 100

277 28.4 22.7 34.1

138 11.8 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037316.D
 Acq On : 18 Jun 2025 15:55
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 18 18:33:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:27:59 2025
 Response via : Initial Calibration

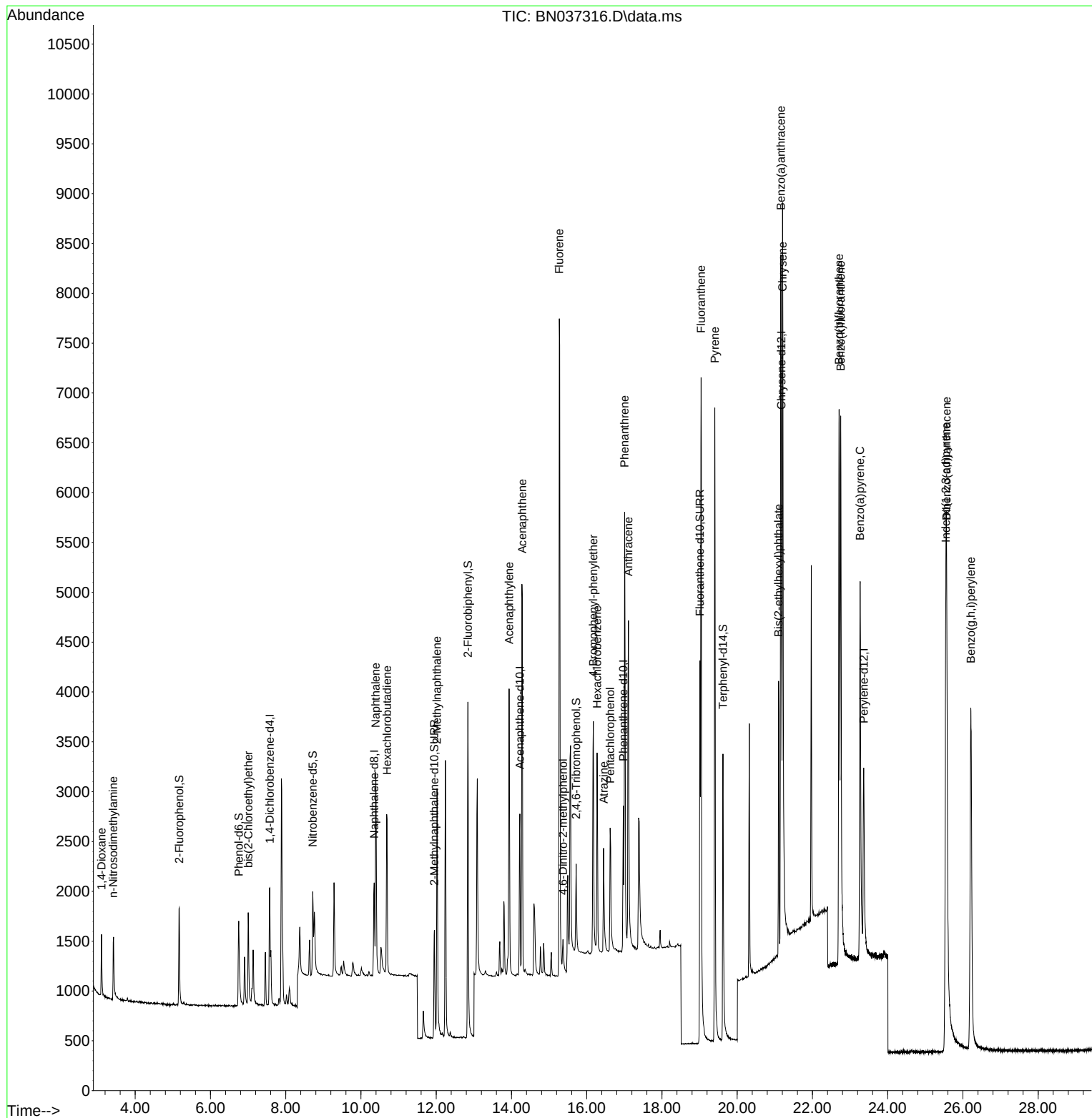
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	643	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1382	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	990	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2267	0.400	ng	0.00
29) Chrysene-d12	21.170	240	2580	0.400	ng	0.00
35) Perylene-d12	23.362	264	2798	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	901	0.771	ng	0.00
5) Phenol-d6	6.751	99	917	0.798	ng	0.00
8) Nitrobenzene-d5	8.717	82	868	0.765	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	1767	0.786	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	573	0.806	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	3477	0.801	ng	0.00
27) Fluoranthene-d10	19.007	212	5799	0.807	ng	0.00
31) Terphenyl-d14	19.621	244	4467	0.755	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	432	0.753	ng	93
3) n-Nitrosodimethylamine	3.415	42	513	0.771	ng	# 93
6) bis(2-Chloroethyl)ether	7.004	93	827	0.841	ng	94
9) Naphthalene	10.393	128	2791	0.781	ng	93
10) Hexachlorobutadiene	10.692	225	1443	0.798	ng	# 98
12) 2-Methylnaphthalene	12.021	142	2008	0.797	ng	97
16) Acenaphthylene	13.935	152	3216	0.772	ng	98
17) Acenaphthene	14.288	154	2121	0.767	ng	100
18) Fluorene	15.271	166	3096	0.790	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	534	0.785	ng	# 64
21) 4-Bromophenyl-phenylether	16.177	248	1450	0.771	ng	96
22) Hexachlorobenzene	16.276	284	1524	0.773	ng	96
23) Atrazine	16.450	200	1147	0.780	ng	# 87
24) Pentachlorophenol	16.624	266	847	0.776	ng	99
25) Phenanthrene	17.008	178	4899	0.768	ng	99
26) Anthracene	17.108	178	4622	0.772	ng	99
28) Fluoranthene	19.040	202	7147	0.806	ng	100
30) Pyrene	19.407	202	7199	0.733	ng	99
32) Benzo(a)anthracene	21.162	228	6734	0.811	ng	98
33) Chrysene	21.206	228	7941	0.749	ng	97
34) Bis(2-ethylhexyl)phtha...	21.099	149	2583	0.758	ng	99
36) Indeno(1,2,3-cd)pyrene	25.544	276	9264	0.787	ng	# 94
37) Benzo(b)fluoranthene	22.708	252	7731	0.791	ng	# 89
38) Benzo(k)fluoranthene	22.751	252	8532	0.795	ng	# 88
39) Benzo(a)pyrene	23.266	252	7111	0.786	ng	# 83
40) Dibenzo(a,h)anthracene	25.567	278	7194	0.768	ng	# 79
41) Benzo(g,h,i)perylene	26.210	276	8315	0.771	ng	# 94

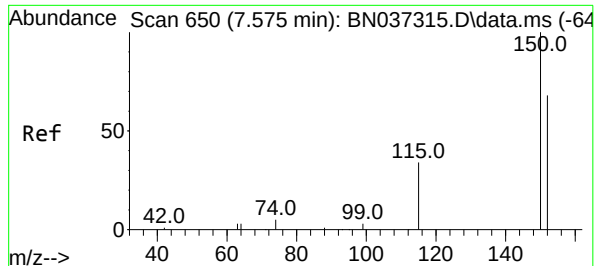
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037316.D
Acq On : 18 Jun 2025 15:55
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 18 18:33:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration

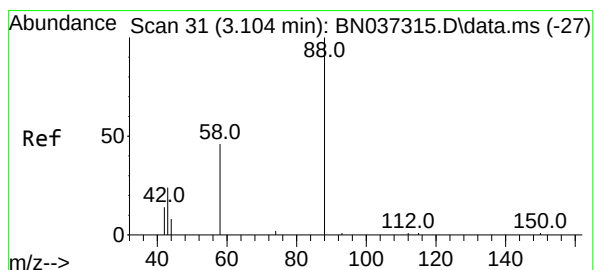
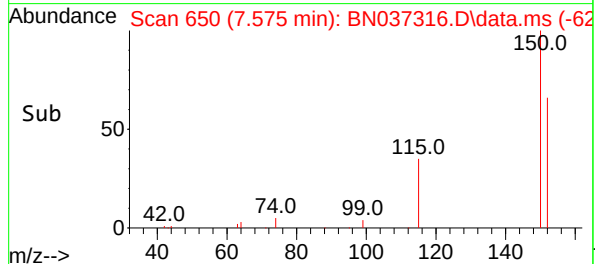
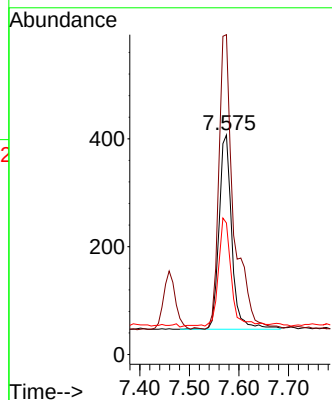
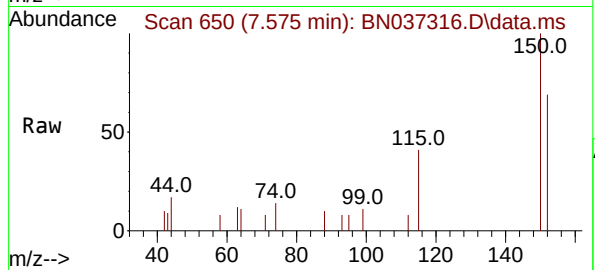




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

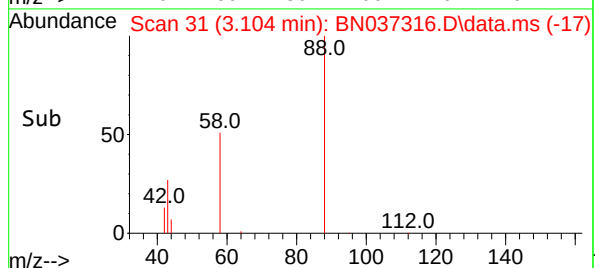
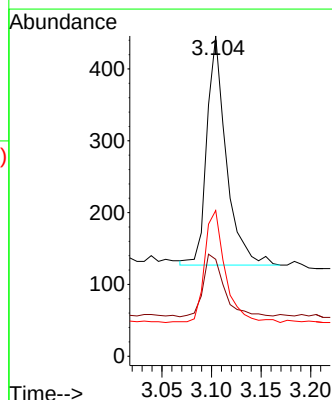
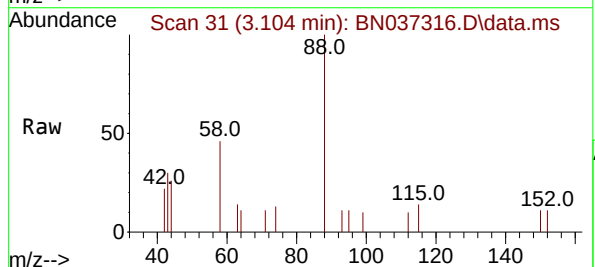
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

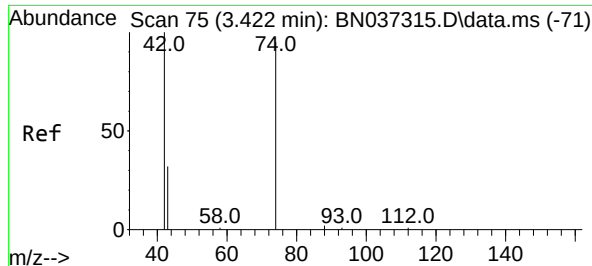
Tgt Ion:152 Resp: 643
Ion Ratio Lower Upper
152 100
150 145.7 112.7 169.1
115 60.0 45.9 68.9



#2
1,4-Dioxane
Concen: 0.753 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion: 88 Resp: 432
Ion Ratio Lower Upper
88 100
43 29.4 21.0 31.6
58 52.1 38.0 57.0

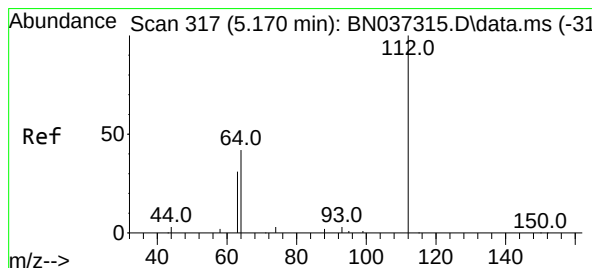
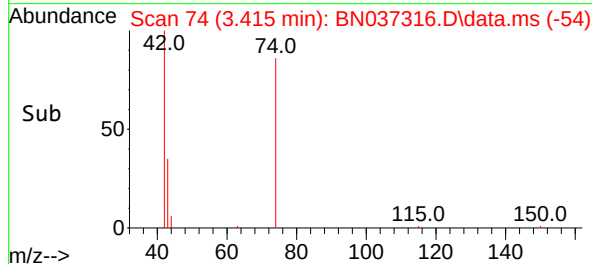
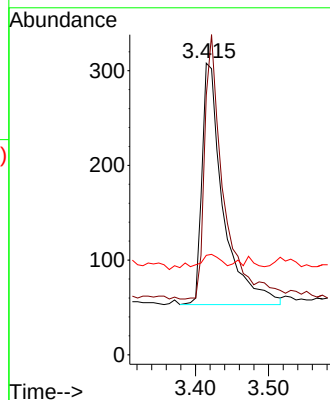
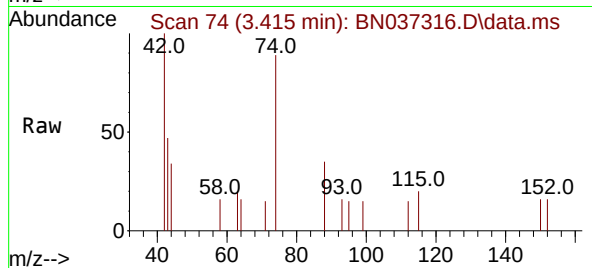




#3
n-Nitrosodimethylamine
Concen: 0.771 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

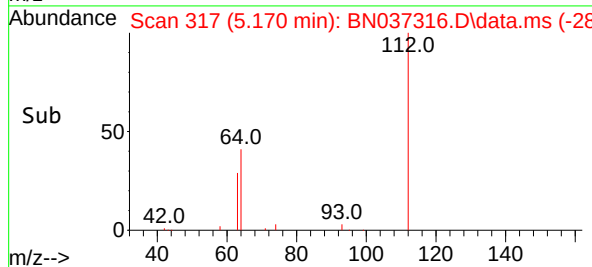
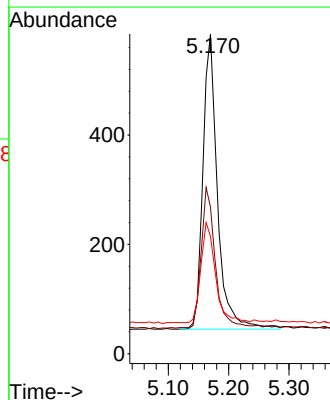
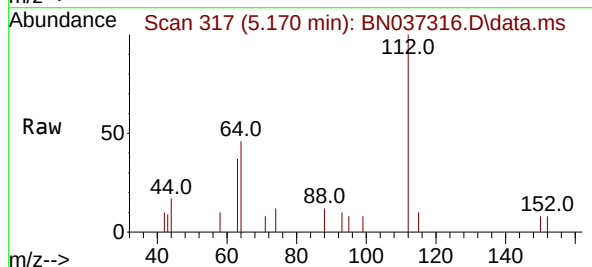
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

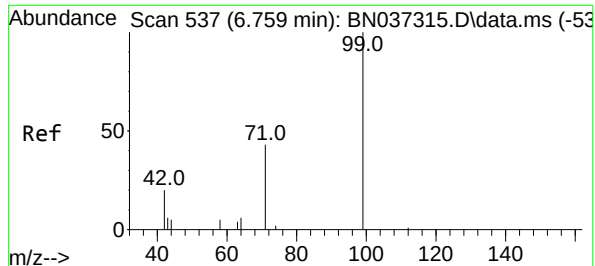
Tgt Ion: 42 Resp: 513
Ion Ratio Lower Upper
42 100
74 98.4 84.3 126.5
44 4.3 5.0 7.4#



#4
2-Fluorophenol
Concen: 0.771 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion: 112 Resp: 901
Ion Ratio Lower Upper
112 100
64 47.4 38.7 58.1
63 33.7 26.4 39.6

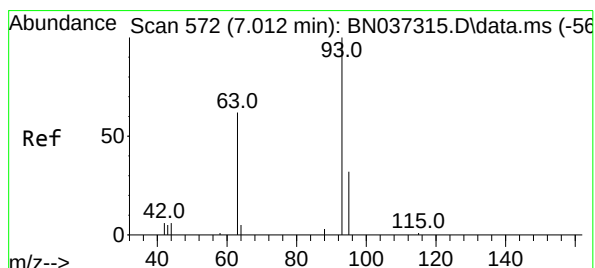
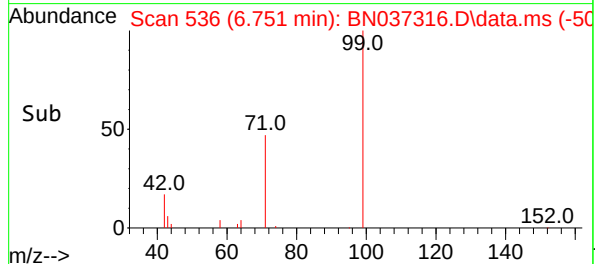
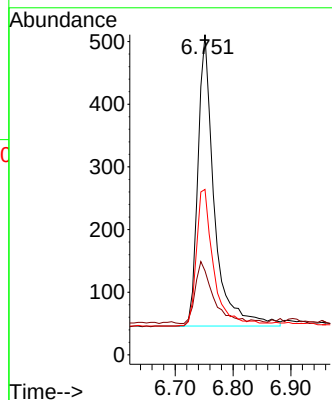
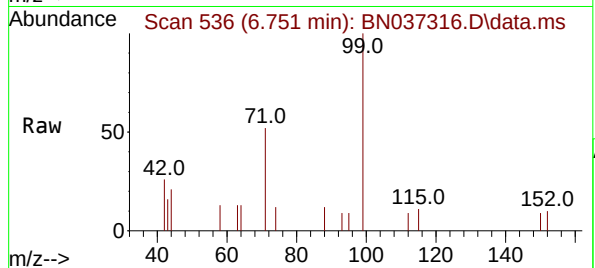




#5
Phenol-d6
Concen: 0.798 ng
RT: 6.751 min Scan# 511
Delta R.T. -0.008 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

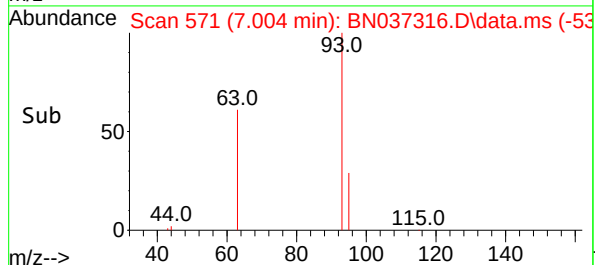
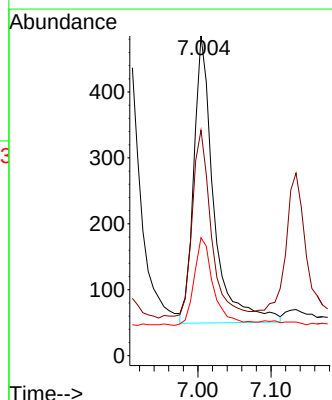
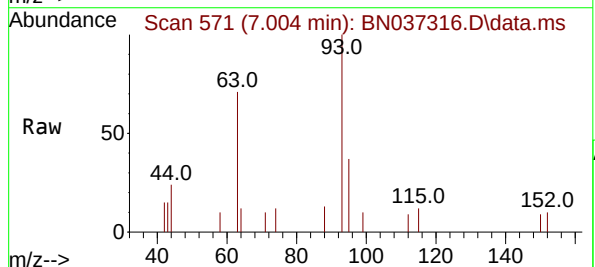
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

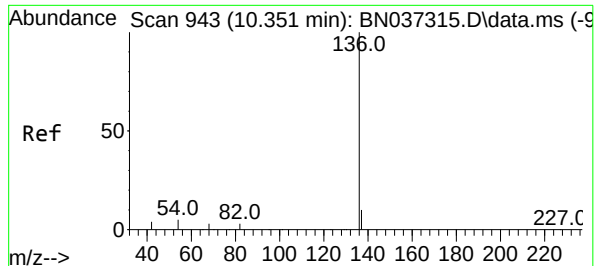
Tgt Ion:	99	Resp:	917
Ion	Ratio	Lower	Upper
99	100		
42	23.2	19.8	29.8
71	49.4	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.841 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion:	93	Resp:	827
Ion	Ratio	Lower	Upper
93	100		
63	62.9	53.2	79.8
95	29.6	27.3	40.9

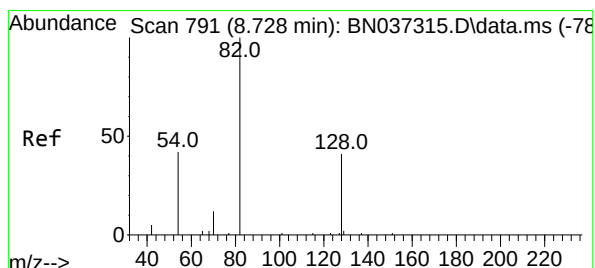
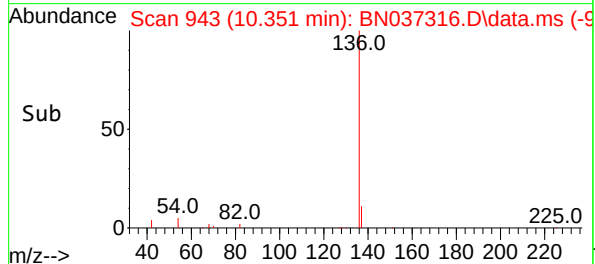
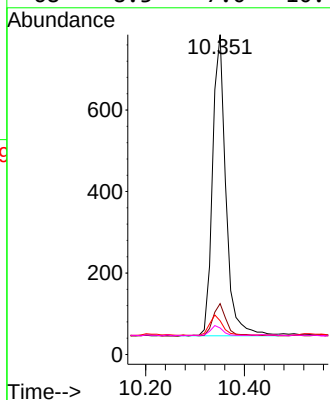
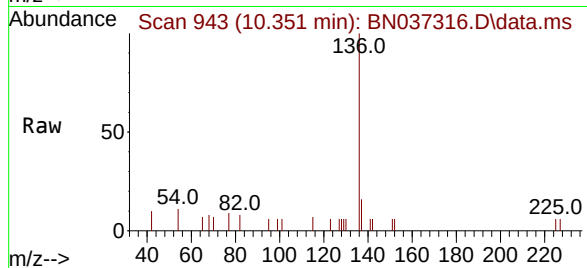




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

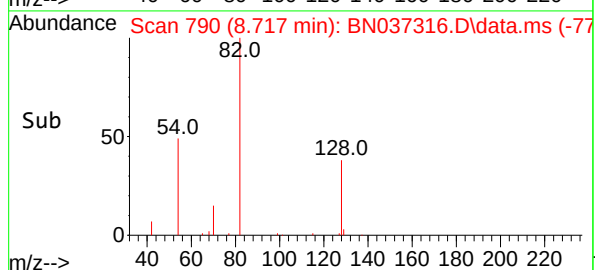
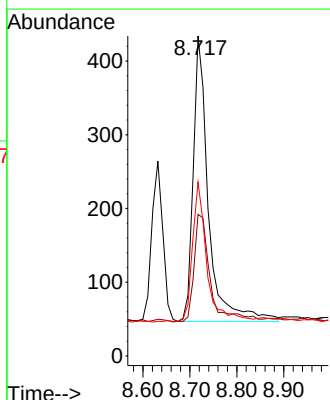
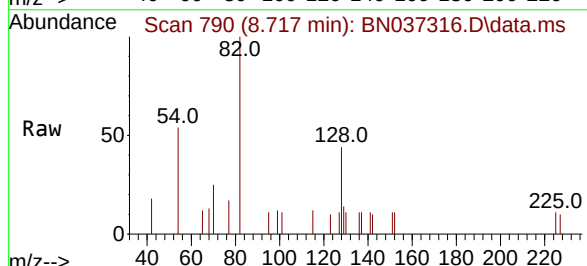
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

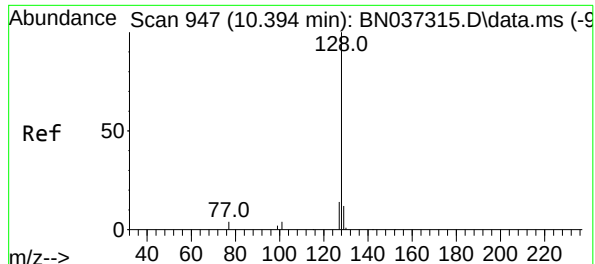
Tgt Ion:	136	Resp:	1382
Ion	Ratio	Lower	Upper
136	100		
137	15.9	12.2	18.2
54	10.6	8.8	13.2
68	8.3	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.765 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion:	82	Resp:	868
Ion	Ratio	Lower	Upper
82	100		
128	44.2	42.5	63.7
54	54.4	43.2	64.8





#9

Naphthalene

Concen: 0.781 ng

RT: 10.393 min Scan# 947

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

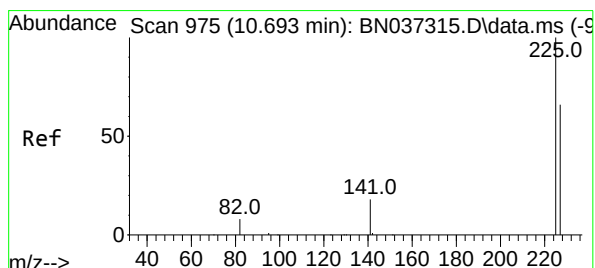
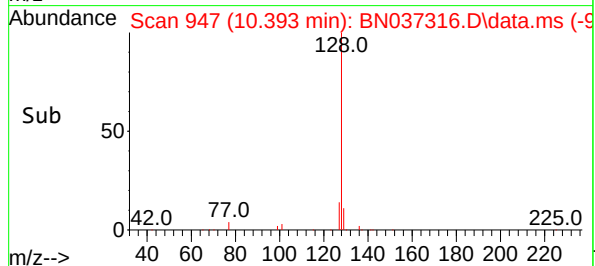
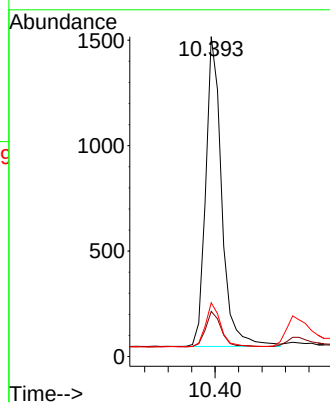
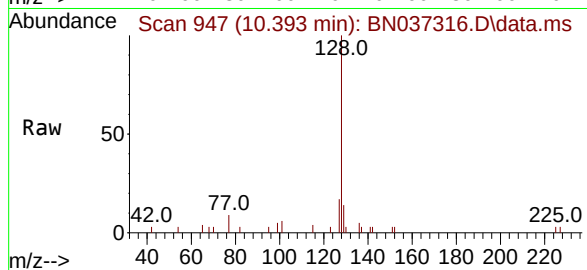
Tgt Ion:128 Resp: 2791

Ion Ratio Lower Upper

128 100

129 14.1 14.0 21.0

127 16.8 15.8 23.8



#10

Hexachlorobutadiene

Concen: 0.798 ng

RT: 10.692 min Scan# 975

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

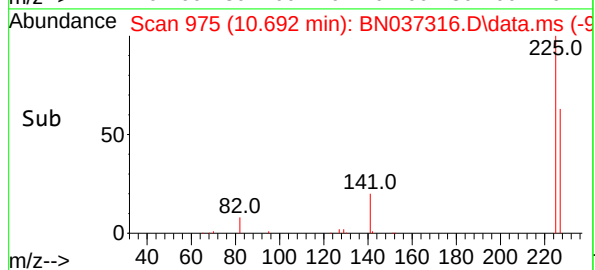
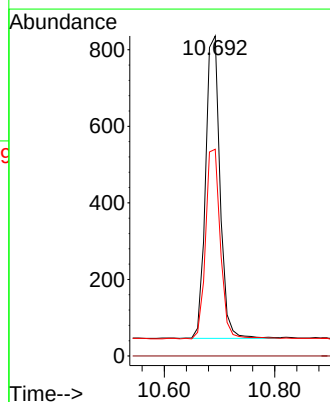
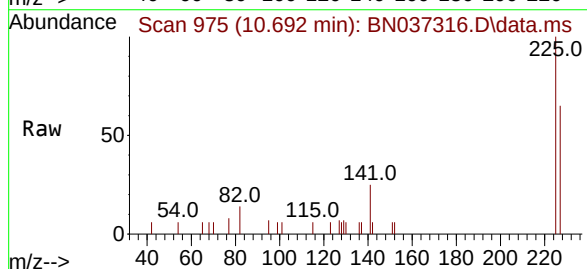
Tgt Ion:225 Resp: 1443

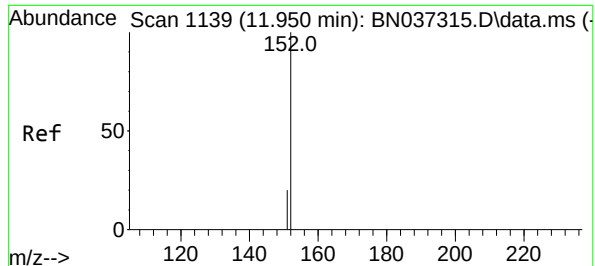
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.2 50.3 75.5

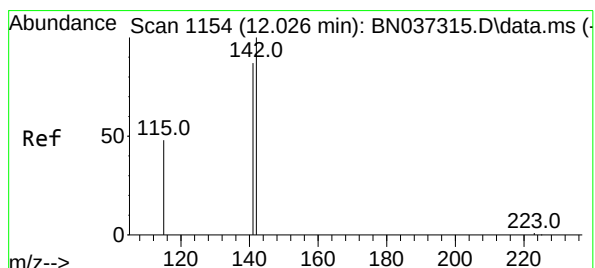
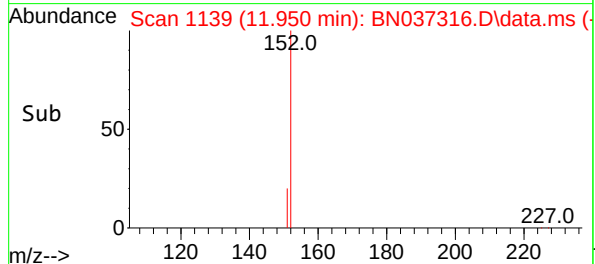
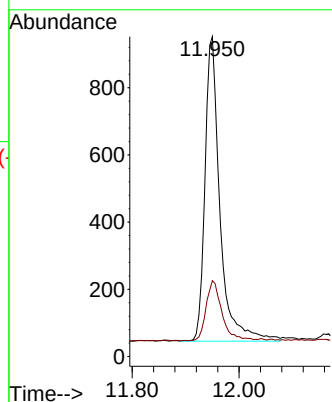
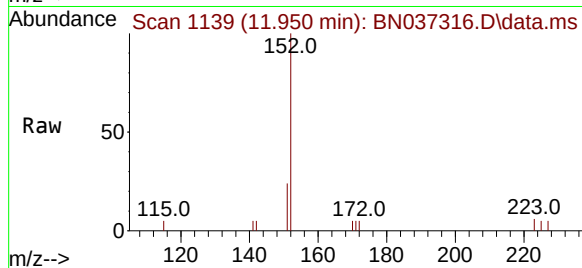




#11
2-Methylnaphthalene-d10
Concen: 0.786 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

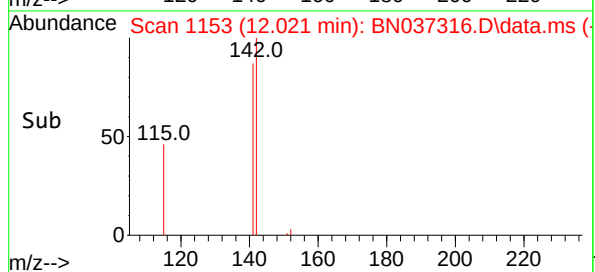
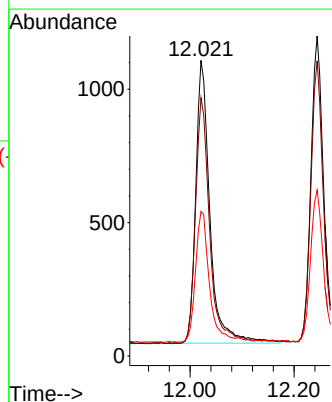
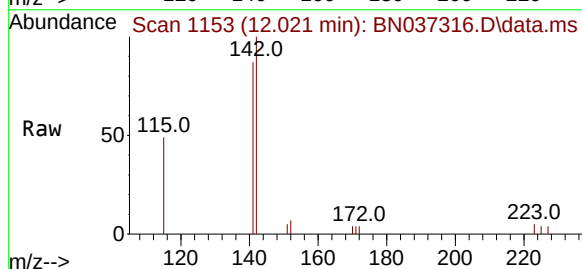
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

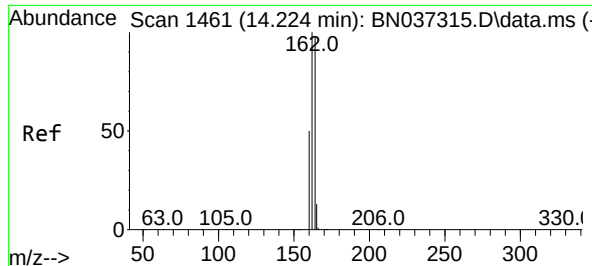
Tgt Ion:152 Resp: 1767
Ion Ratio Lower Upper
152 100
151 20.9 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.797 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion:142 Resp: 2008
Ion Ratio Lower Upper
142 100
141 87.4 70.2 105.2
115 48.9 43.0 64.4

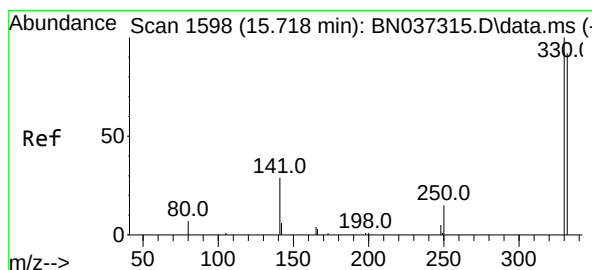
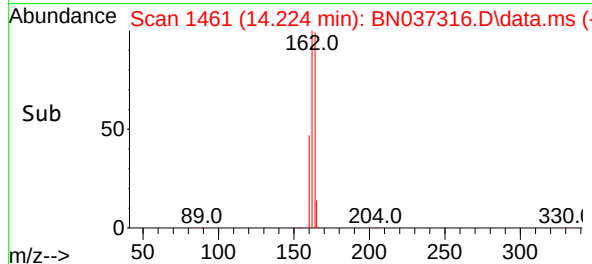
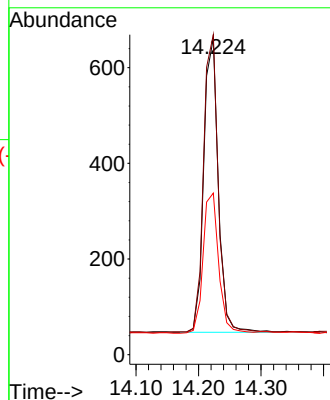
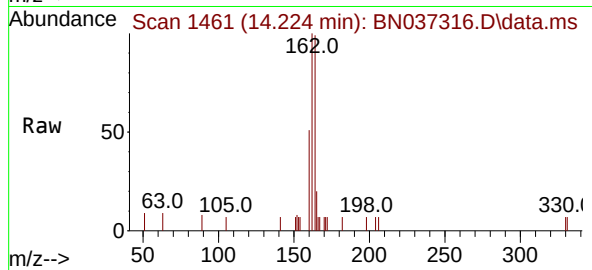




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

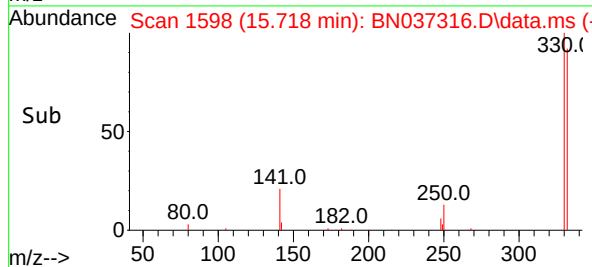
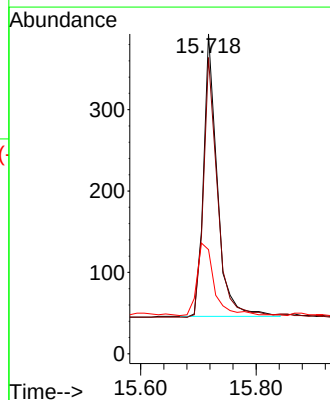
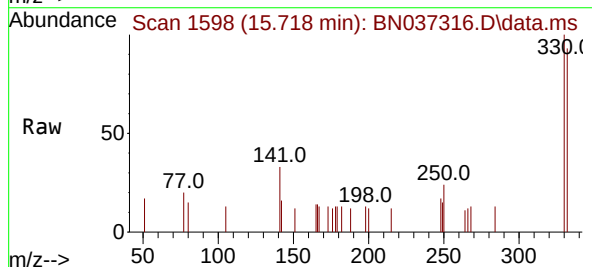
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

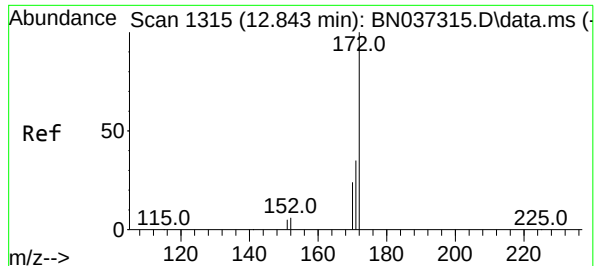
Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.5	122.3
160	51.1	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.806 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.9	78.4	117.6
141	32.5	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 0.801 ng

RT: 12.843 min Scan# 1315

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

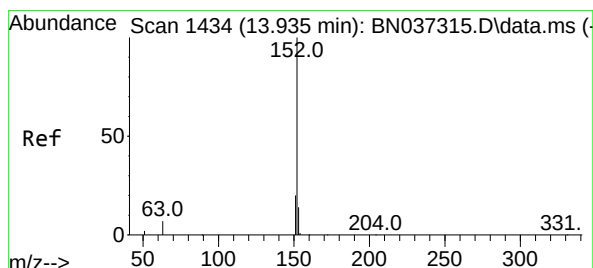
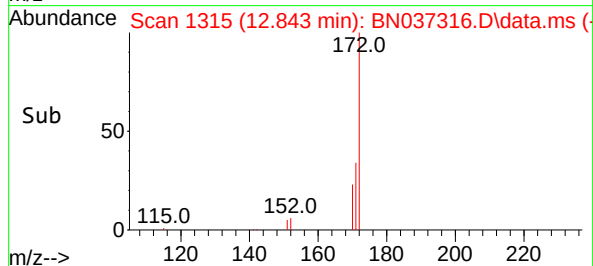
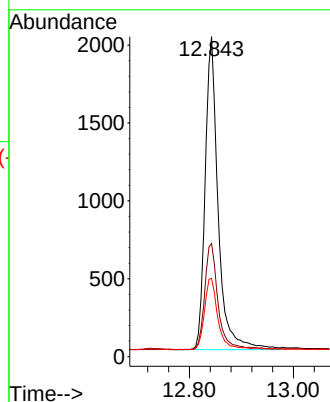
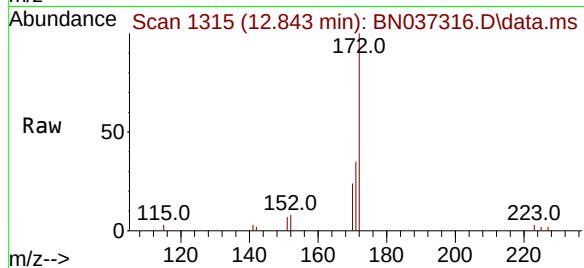
Tgt Ion:172 Resp: 3477

Ion Ratio Lower Upper

172 100

171 35.3 30.8 46.2

170 24.5 21.9 32.9



#16

Acenaphthylene

Concen: 0.772 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

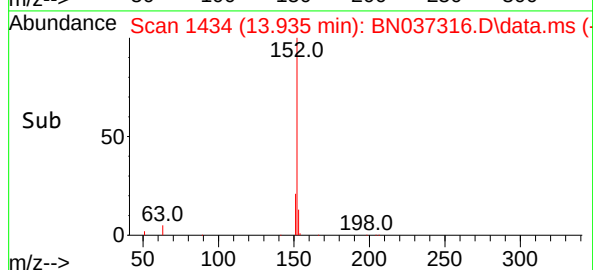
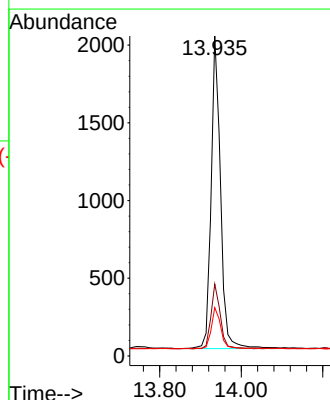
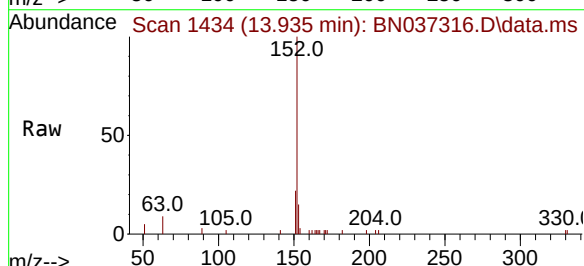
Tgt Ion:152 Resp: 3216

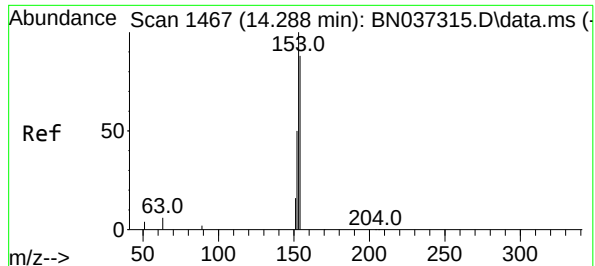
Ion Ratio Lower Upper

152 100

151 20.3 16.6 24.8

153 13.7 10.2 15.2

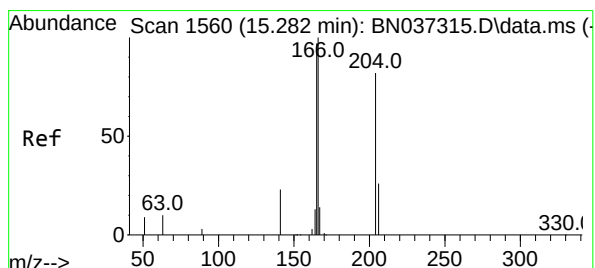
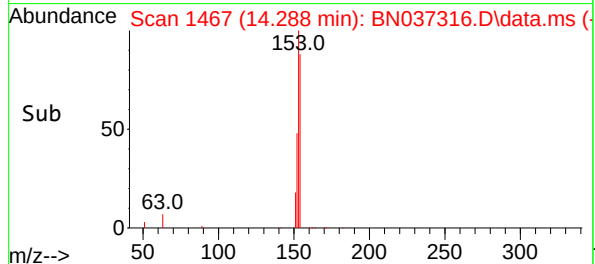
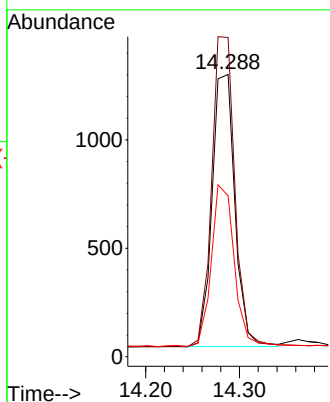
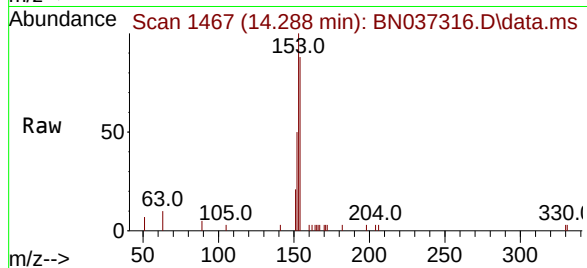




#17
Acenaphthene
Concen: 0.767 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

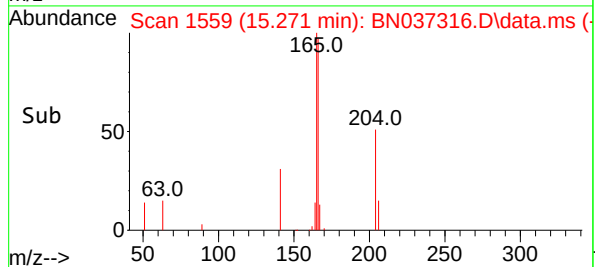
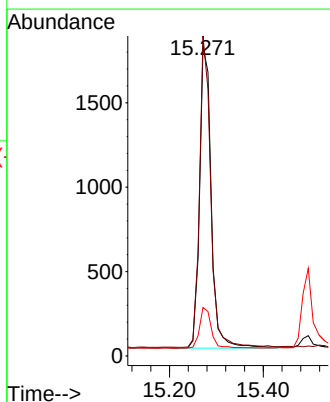
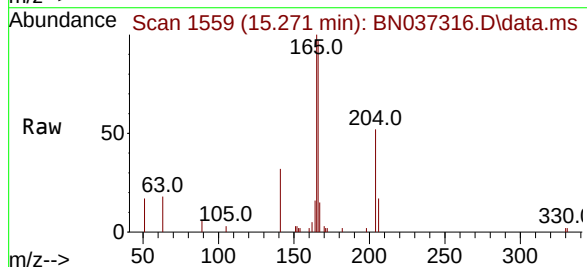
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

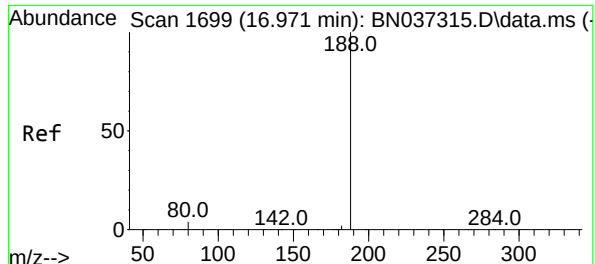
Tgt Ion	154	Resp:	2121
Ion Ratio	Lower	Upper	
154	100		
153	116.6	93.1	139.7
152	60.4	48.6	73.0



#18
Fluorene
Concen: 0.790 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion	166	Resp:	3096
Ion Ratio	Lower	Upper	
166	100		
165	98.8	79.5	119.3
167	13.6	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: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

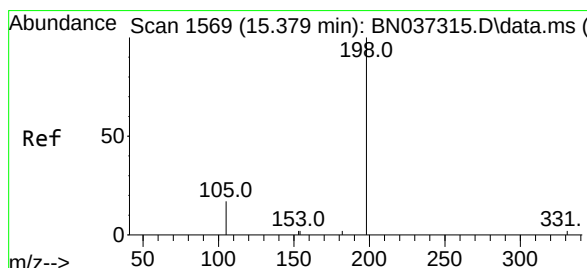
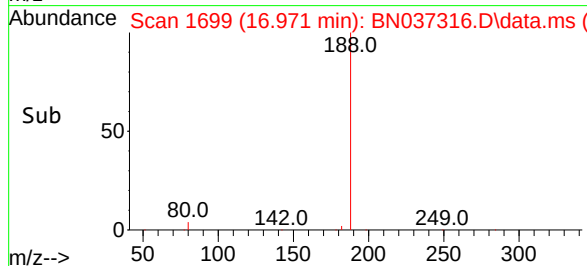
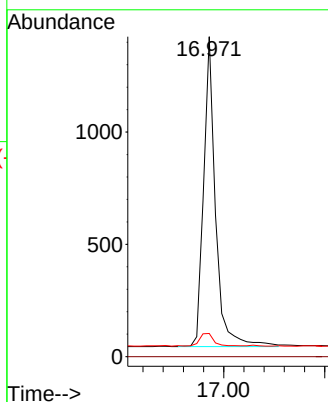
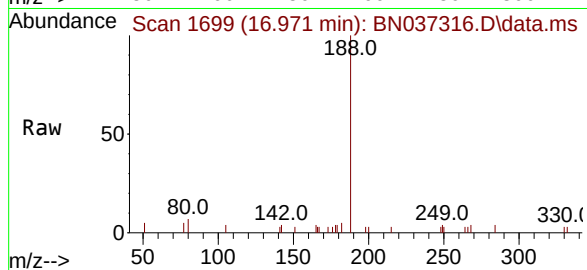
Tgt Ion:188 Resp: 2267

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.2 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.785 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.011 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

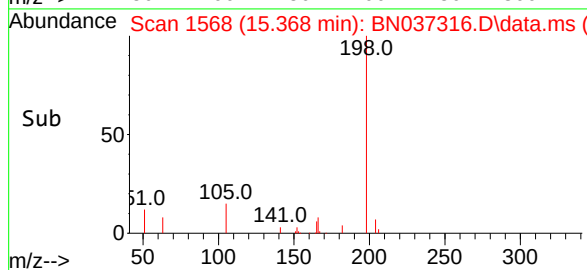
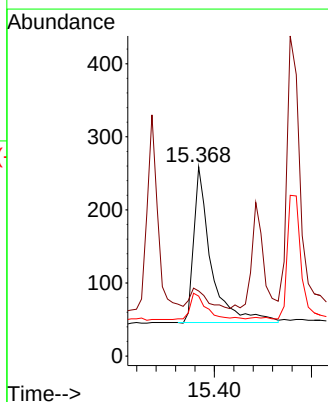
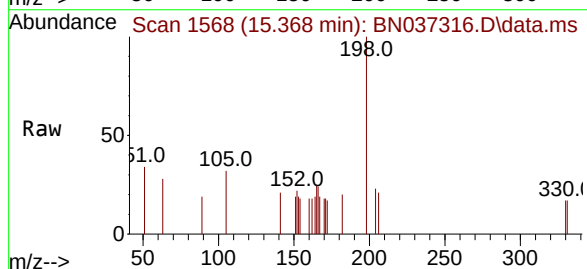
Tgt Ion:198 Resp: 534

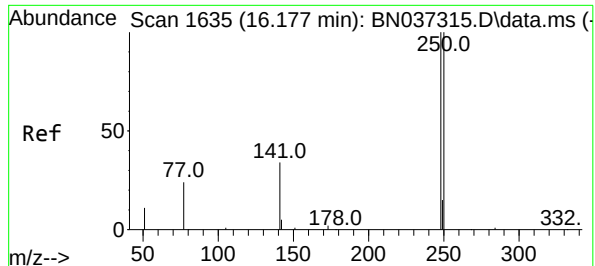
Ion Ratio Lower Upper

198 100

51 34.4 51.4 77.0#

105 31.7 45.5 68.3#

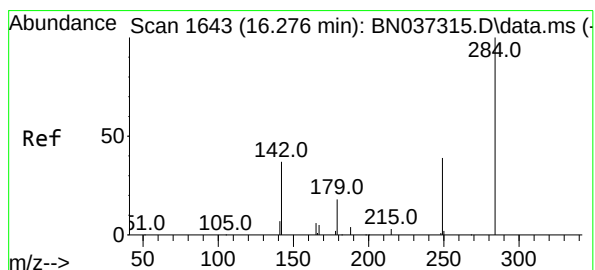
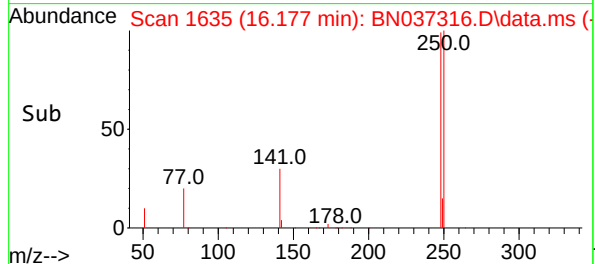
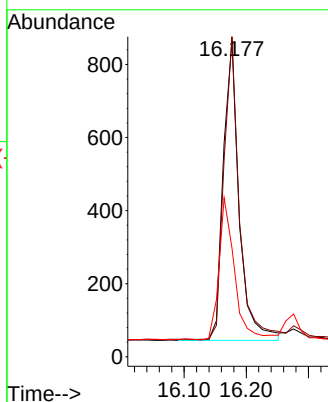
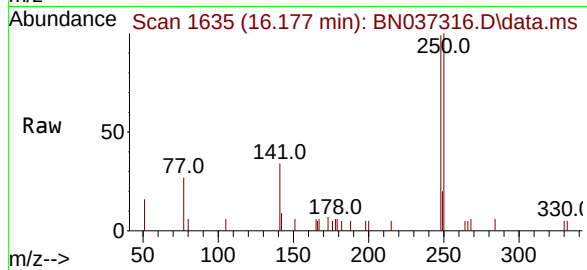




#21
4-Bromophenyl-phenylether
Concen: 0.771 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

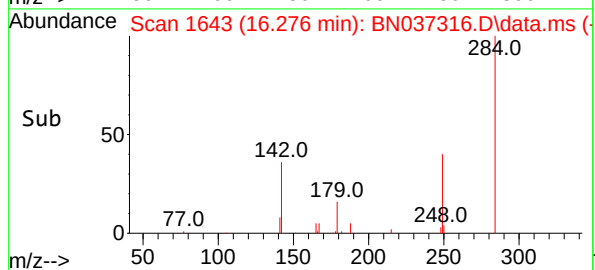
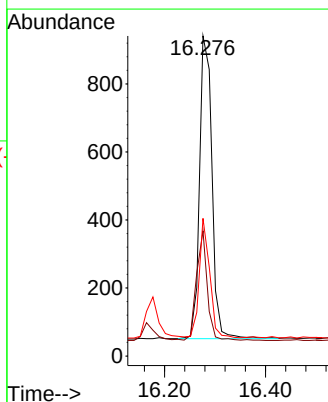
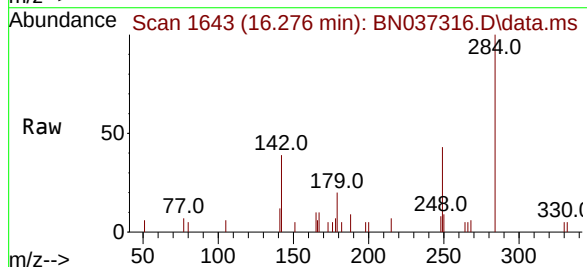
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

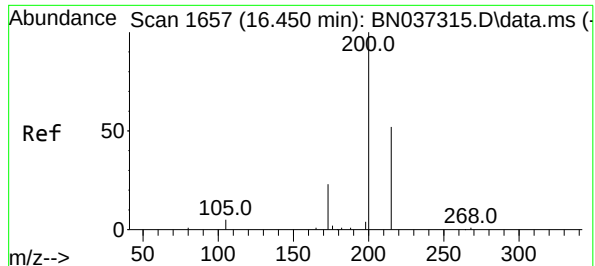
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.2	80.4	120.6
141	34.4	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.773 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion	Ratio	Lower	Upper
284	100		
142	31.8	27.0	40.6
249	33.3	28.8	43.2





#23

Atrazine

Concen: 0.780 ng

RT: 16.450 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

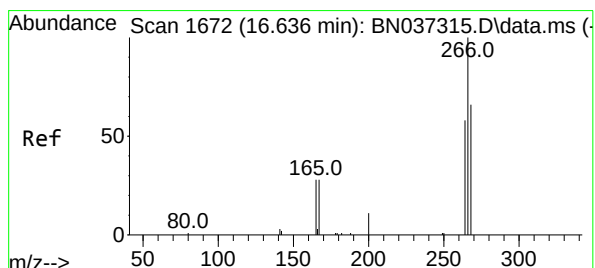
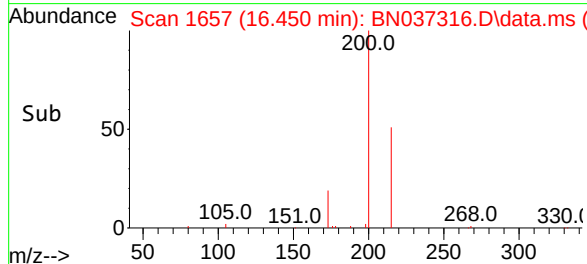
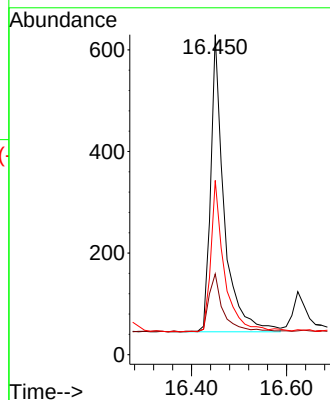
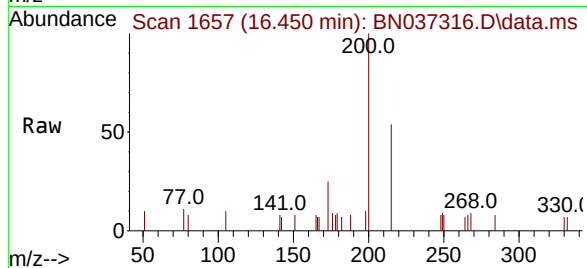
Tgt Ion:200 Resp: 1147

Ion Ratio Lower Upper

200 100

173 25.2 29.2 43.8#

215 54.4 48.8 73.2



#24

Pentachlorophenol

Concen: 0.776 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.013 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

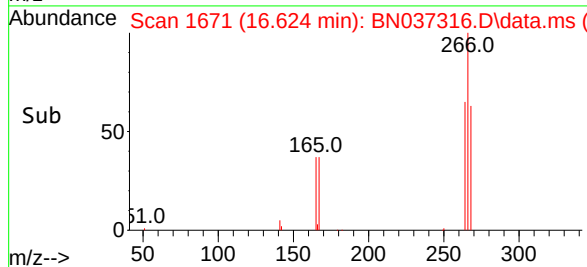
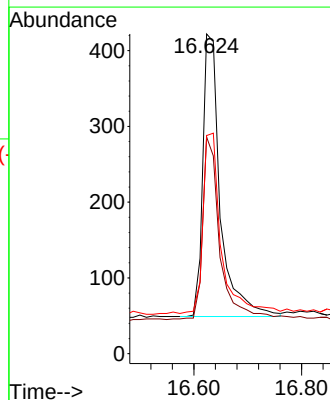
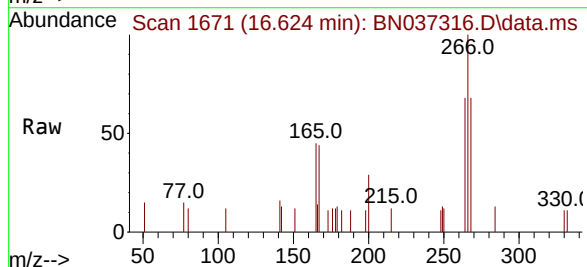
Tgt Ion:266 Resp: 847

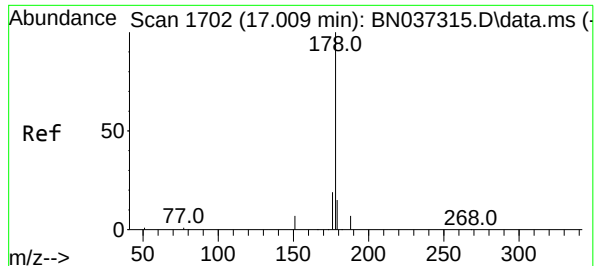
Ion Ratio Lower Upper

266 100

264 63.9 50.3 75.5

268 68.4 55.3 82.9

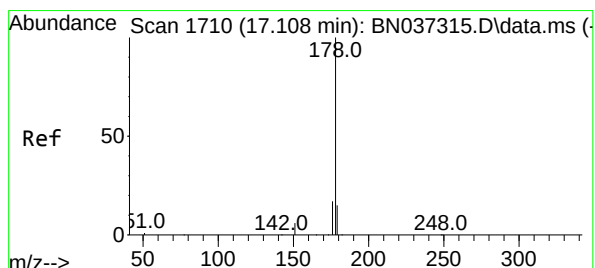
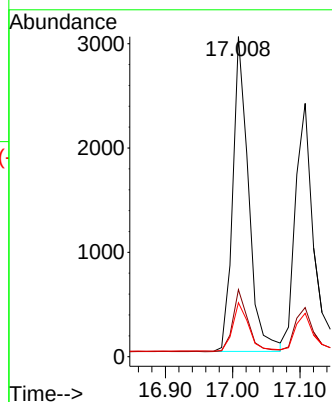
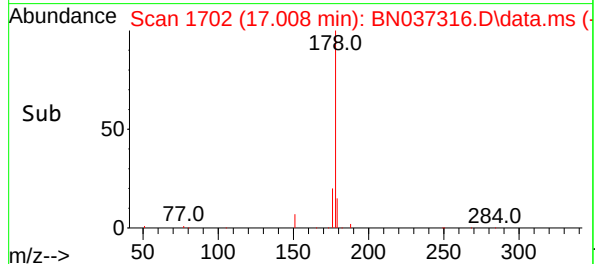
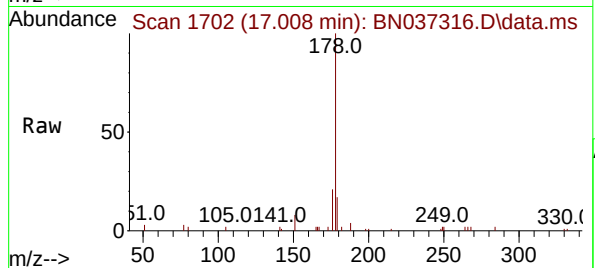




#25
Phenanthrene
Concen: 0.768 ng
RT: 17.008 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

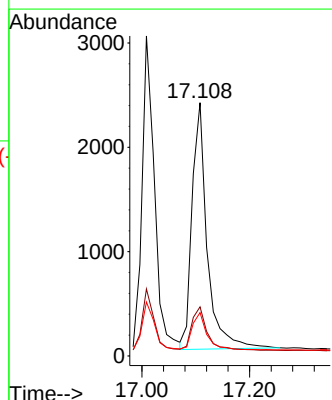
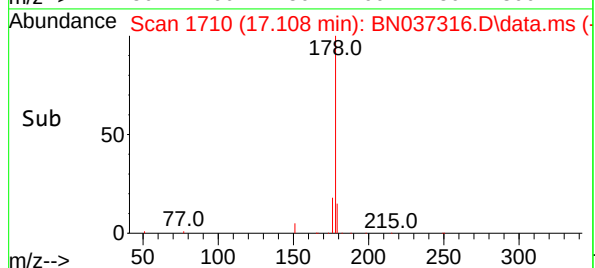
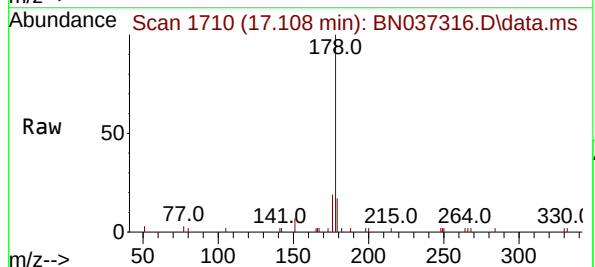
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

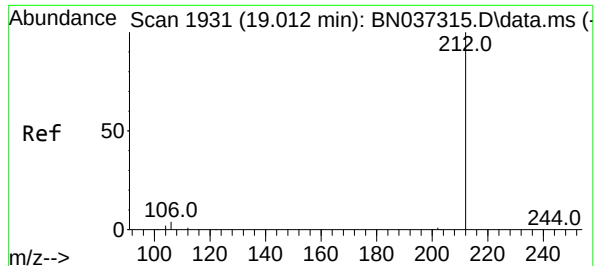
Tgt Ion:178 Resp: 4899
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.6 12.9 19.3



#26
Anthracene
Concen: 0.772 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion:178 Resp: 4622
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.807 ng

RT: 19.007 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

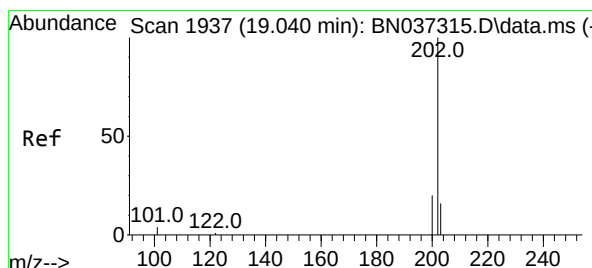
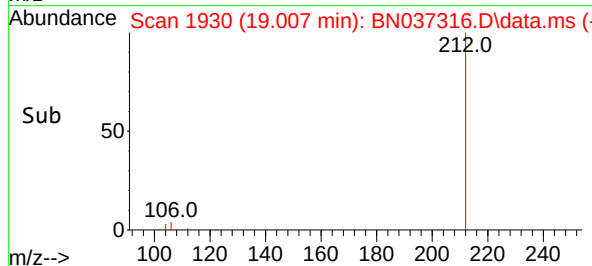
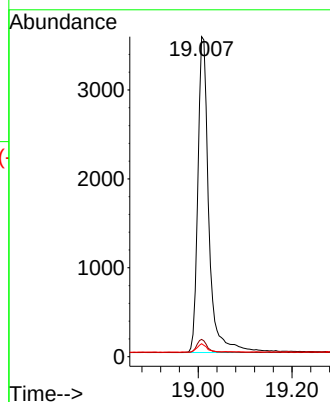
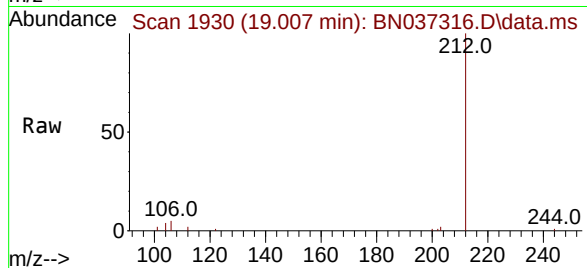
Tgt Ion:212 Resp: 5799

Ion Ratio Lower Upper

212 100

106 4.0 3.0 4.4

104 2.4 2.0 3.0



#28

Fluoranthene

Concen: 0.806 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

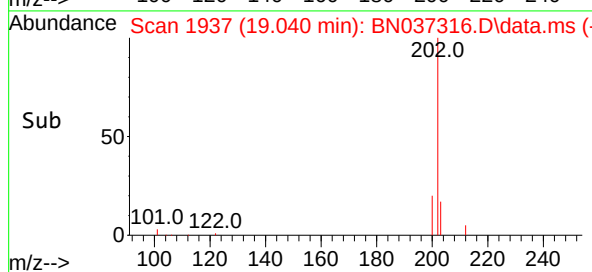
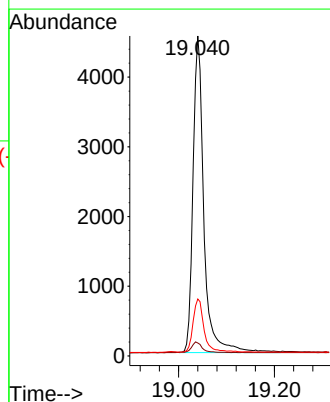
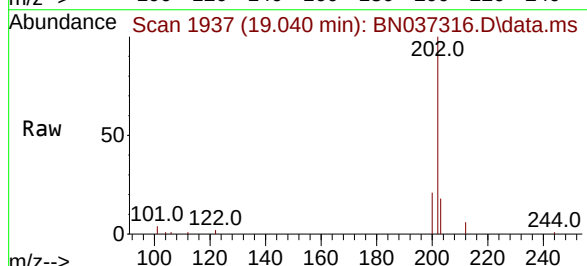
Tgt Ion:202 Resp: 7147

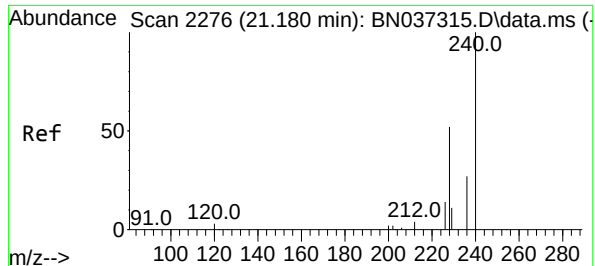
Ion Ratio Lower Upper

202 100

101 3.6 3.0 4.6

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.170 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

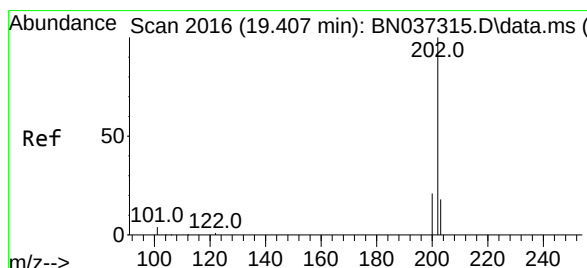
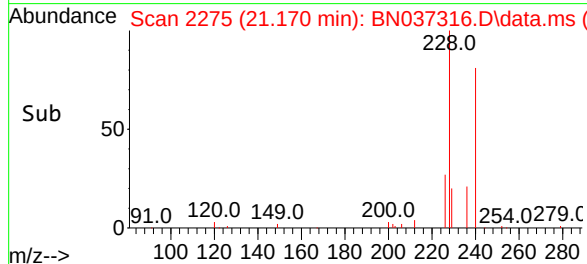
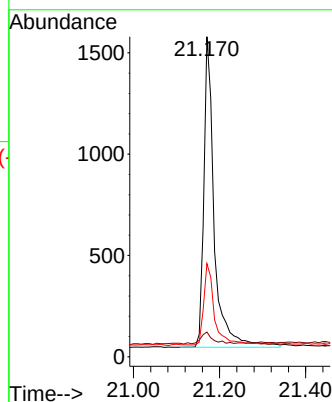
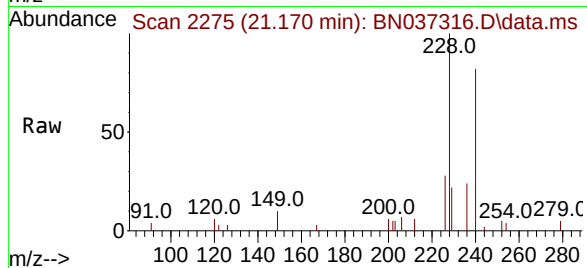
Tgt Ion:240 Resp: 2580

Ion Ratio Lower Upper

240 100

120 7.7 7.5 11.3

236 29.1 24.9 37.3



#30

Pyrene

Concen: 0.733 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

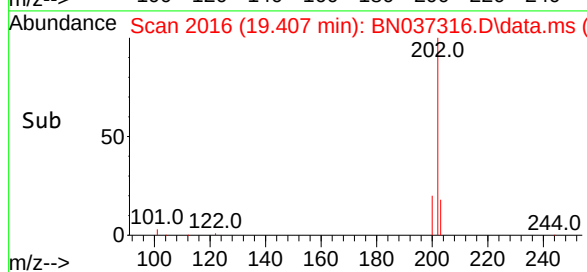
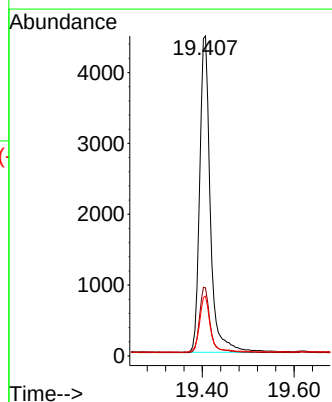
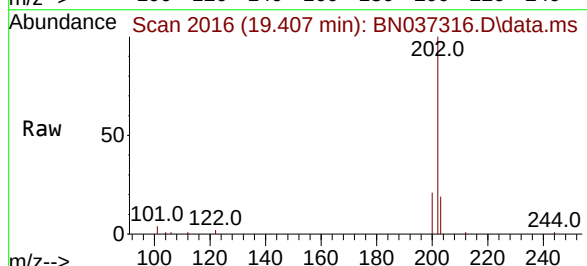
Tgt Ion:202 Resp: 7199

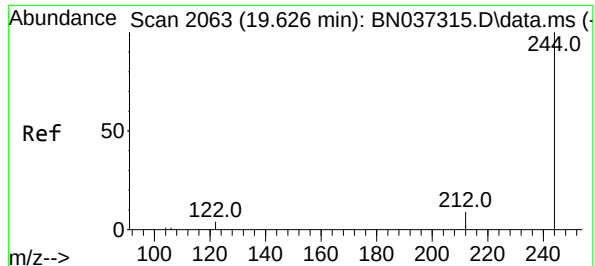
Ion Ratio Lower Upper

202 100

200 20.5 16.8 25.2

203 18.2 14.5 21.7

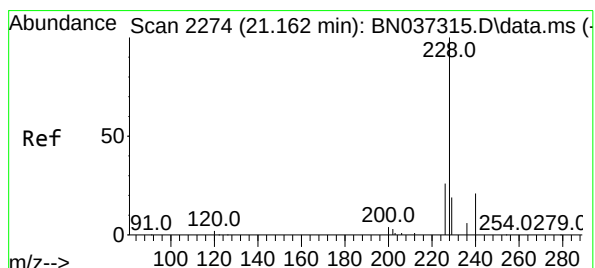
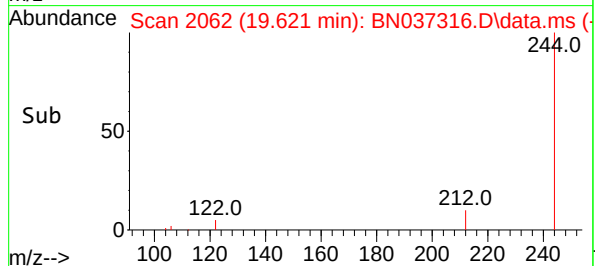
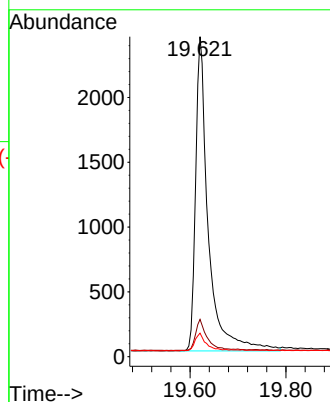
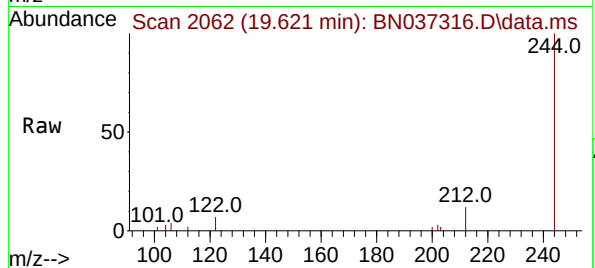




#31
Terphenyl-d14
Concen: 0.755 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

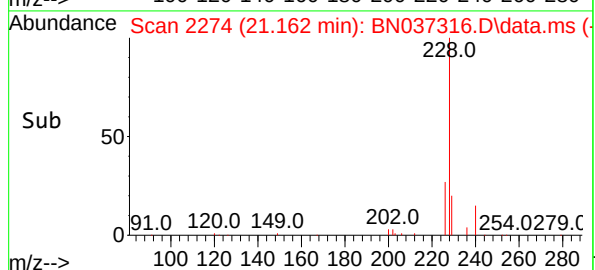
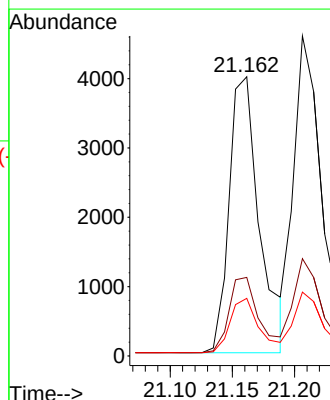
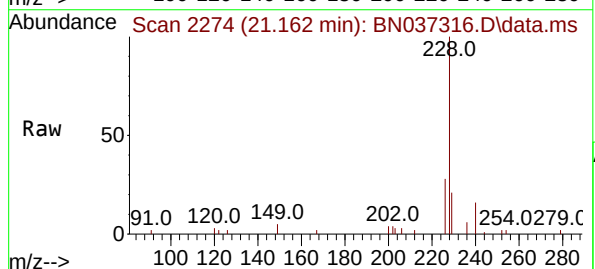
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

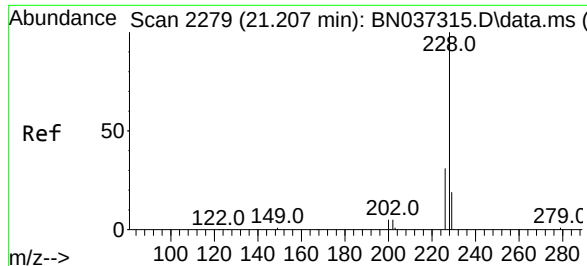
Tgt Ion:244 Resp: 4467
Ion Ratio Lower Upper
244 100
212 11.7 11.1 16.7
122 7.3 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.811 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN037316.D
Acq: 18 Jun 2025 15:55

Tgt Ion:228 Resp: 6734
Ion Ratio Lower Upper
228 100
226 28.2 23.0 34.4
229 20.6 17.4 26.0





#33

Chrysene

Concen: 0.749 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

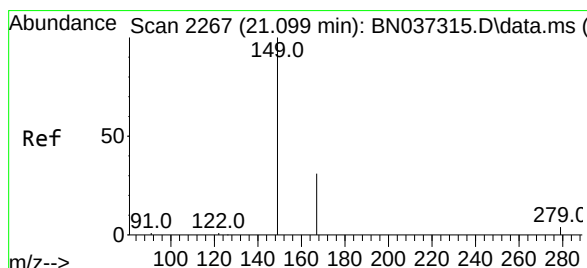
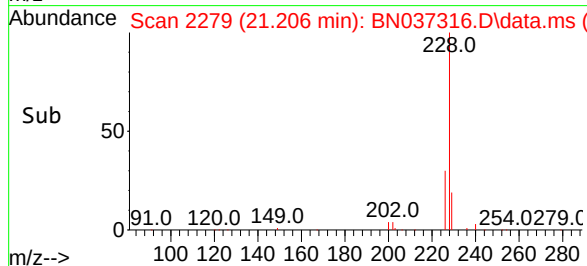
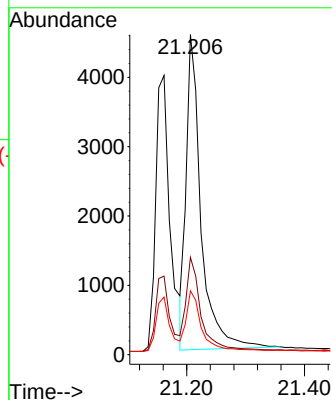
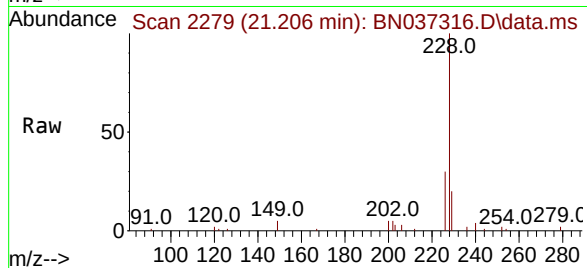
Tgt Ion:228 Resp: 7941

Ion Ratio Lower Upper

228 100

226 30.4 25.4 38.2

229 20.0 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.758 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

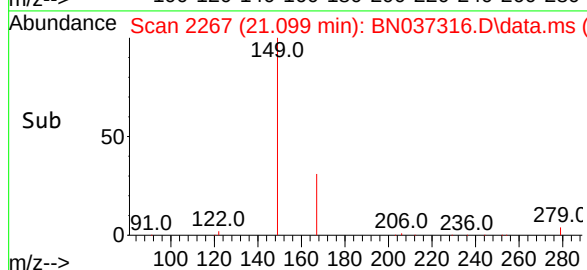
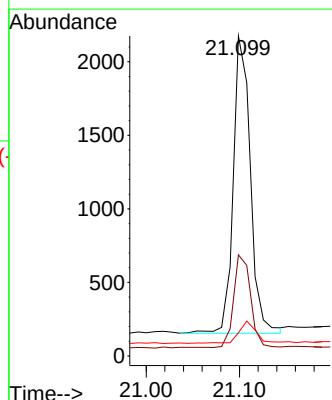
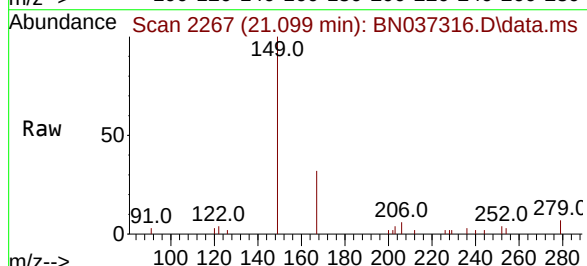
Tgt Ion:149 Resp: 2583

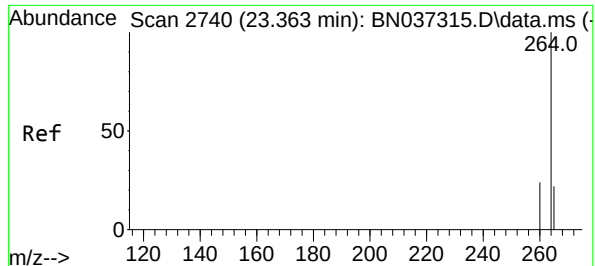
Ion Ratio Lower Upper

149 100

167 30.4 24.6 37.0

279 7.5 6.5 9.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.362 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037316.D

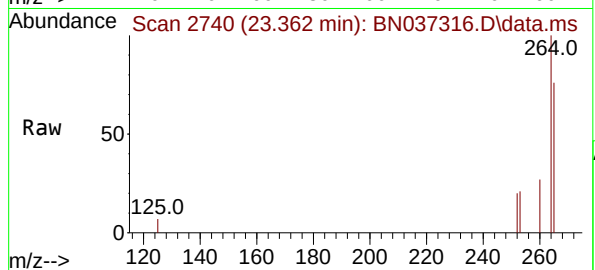
Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



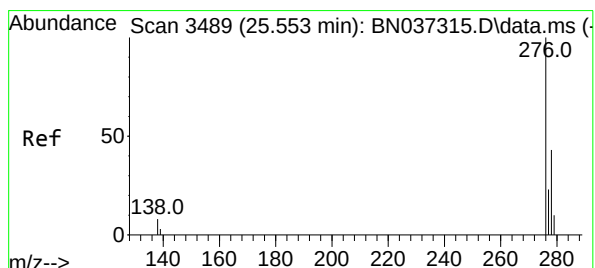
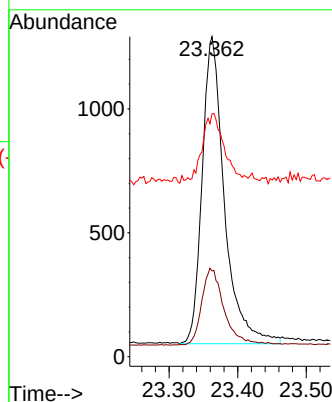
Tgt Ion:264 Resp: 2798

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

265 75.9 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.787 ng

RT: 25.544 min Scan# 3486

Delta R.T. -0.009 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

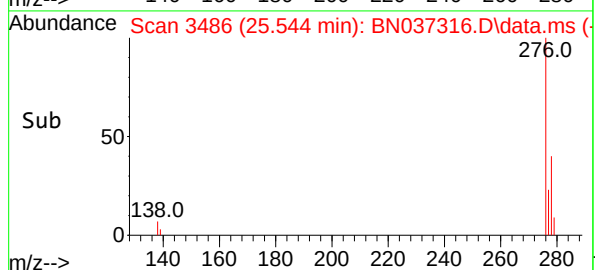
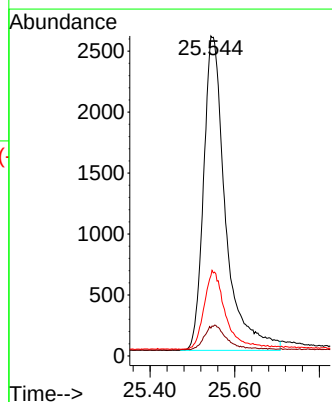
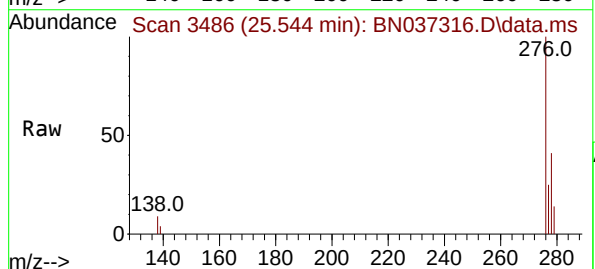
Tgt Ion:276 Resp: 9264

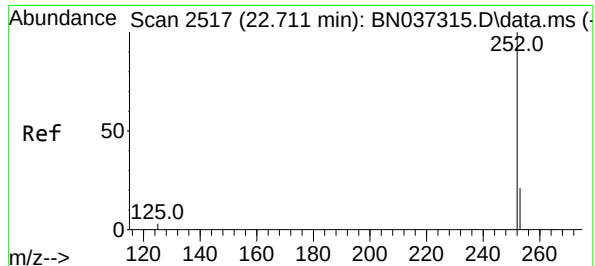
Ion Ratio Lower Upper

276 100

138 7.7 2.2 3.2#

277 23.7 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.791 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.003 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

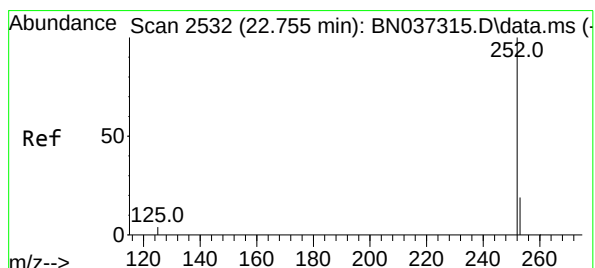
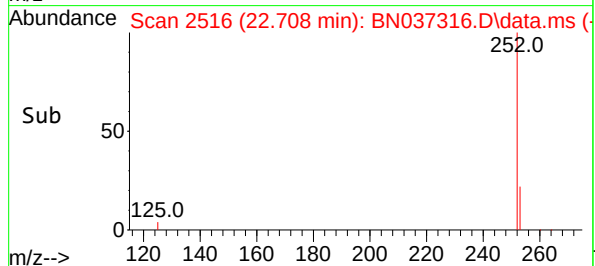
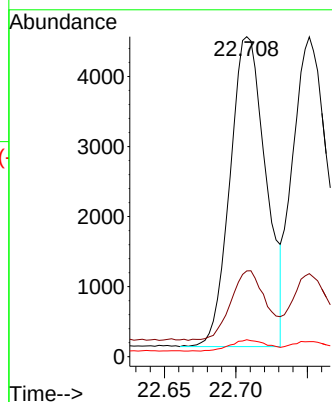
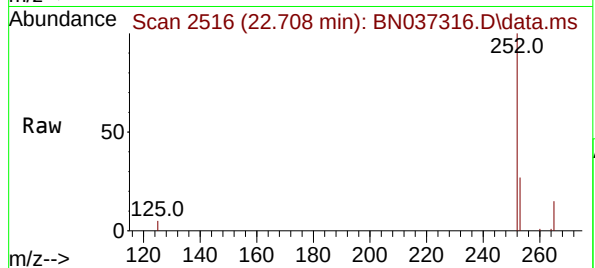
Tgt Ion:252 Resp: 7731

Ion Ratio Lower Upper

252 100

253 26.8 26.6 40.0

125 5.3 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.795 ng

RT: 22.751 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

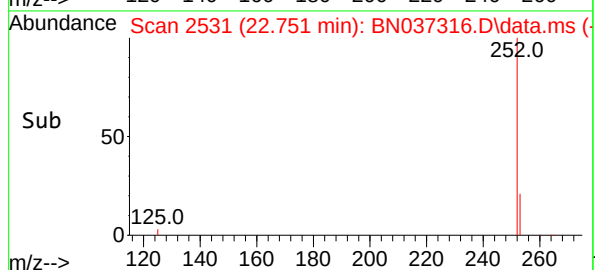
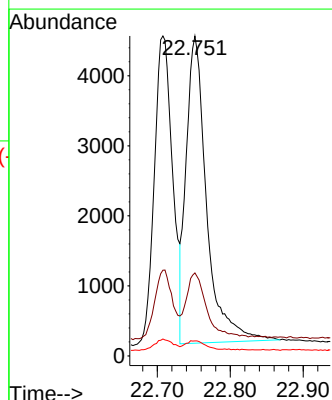
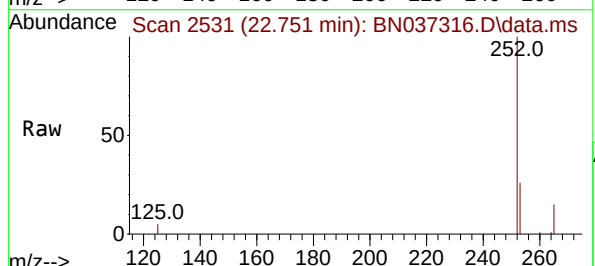
Tgt Ion:252 Resp: 8532

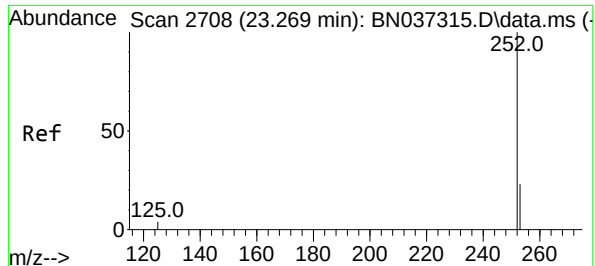
Ion Ratio Lower Upper

252 100

253 26.0 26.7 40.1#

125 4.7 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.786 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

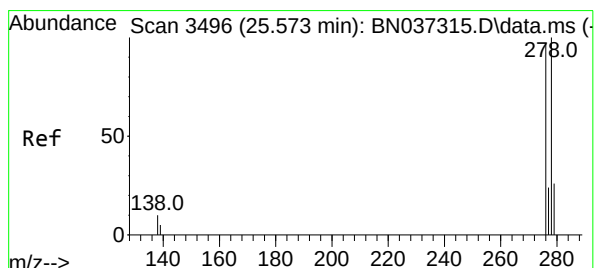
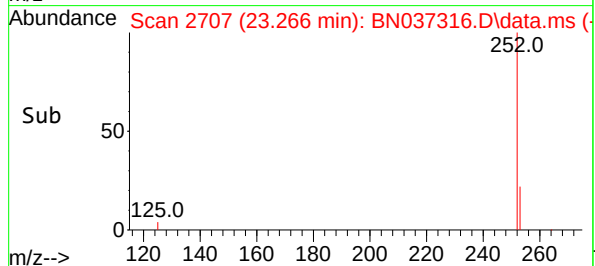
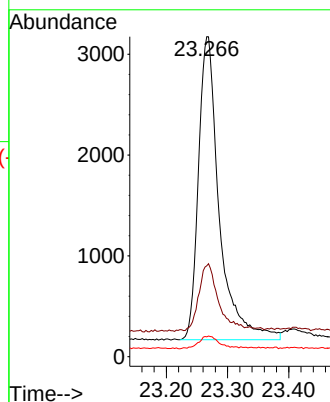
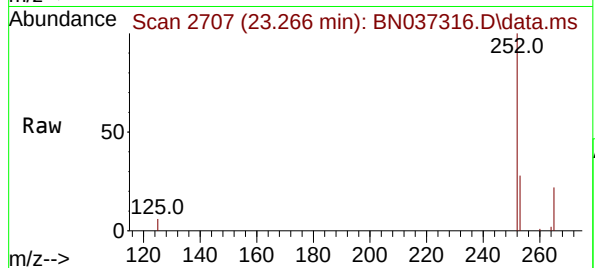
Tgt Ion:252 Resp: 7111

Ion Ratio Lower Upper

252 100

253 28.4 31.6 47.4#

125 6.2 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.768 ng

RT: 25.567 min Scan# 3494

Delta R.T. -0.006 min

Lab File: BN037316.D

Acq: 18 Jun 2025 15:55

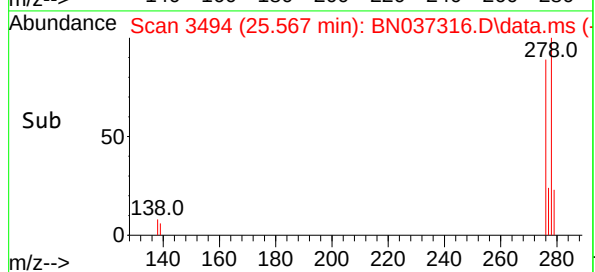
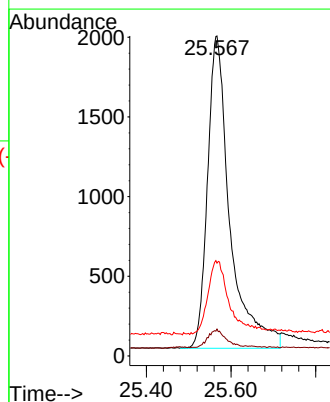
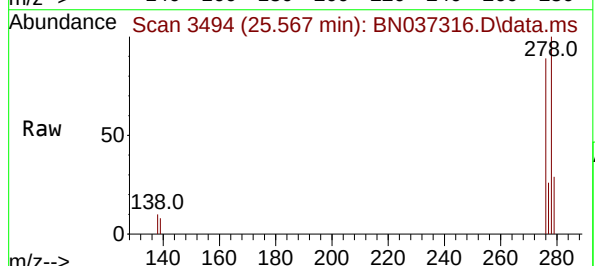
Tgt Ion:278 Resp: 7194

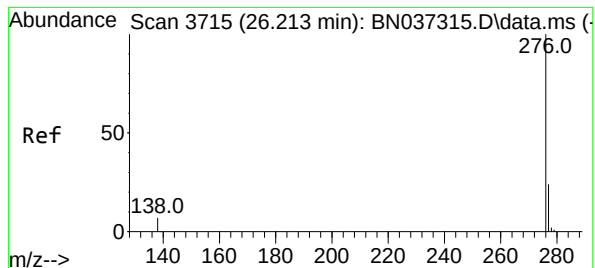
Ion Ratio Lower Upper

278 100

139 8.4 10.2 15.4#

279 29.0 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.771 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037316.D

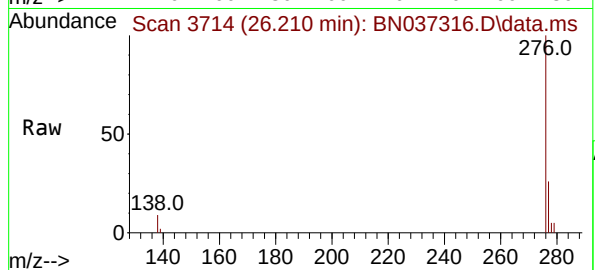
Acq: 18 Jun 2025 15:55

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



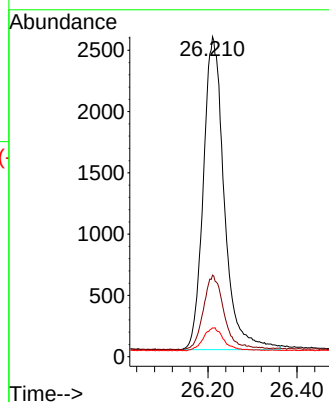
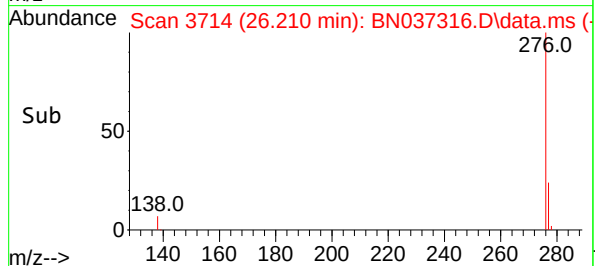
Tgt Ion:276 Resp: 8315

Ion Ratio Lower Upper

276 100

277 25.5 22.7 34.1

138 9.0 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037317.D
 Acq On : 18 Jun 2025 16:31
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 18 18:33:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:27:59 2025
 Response via : Initial Calibration

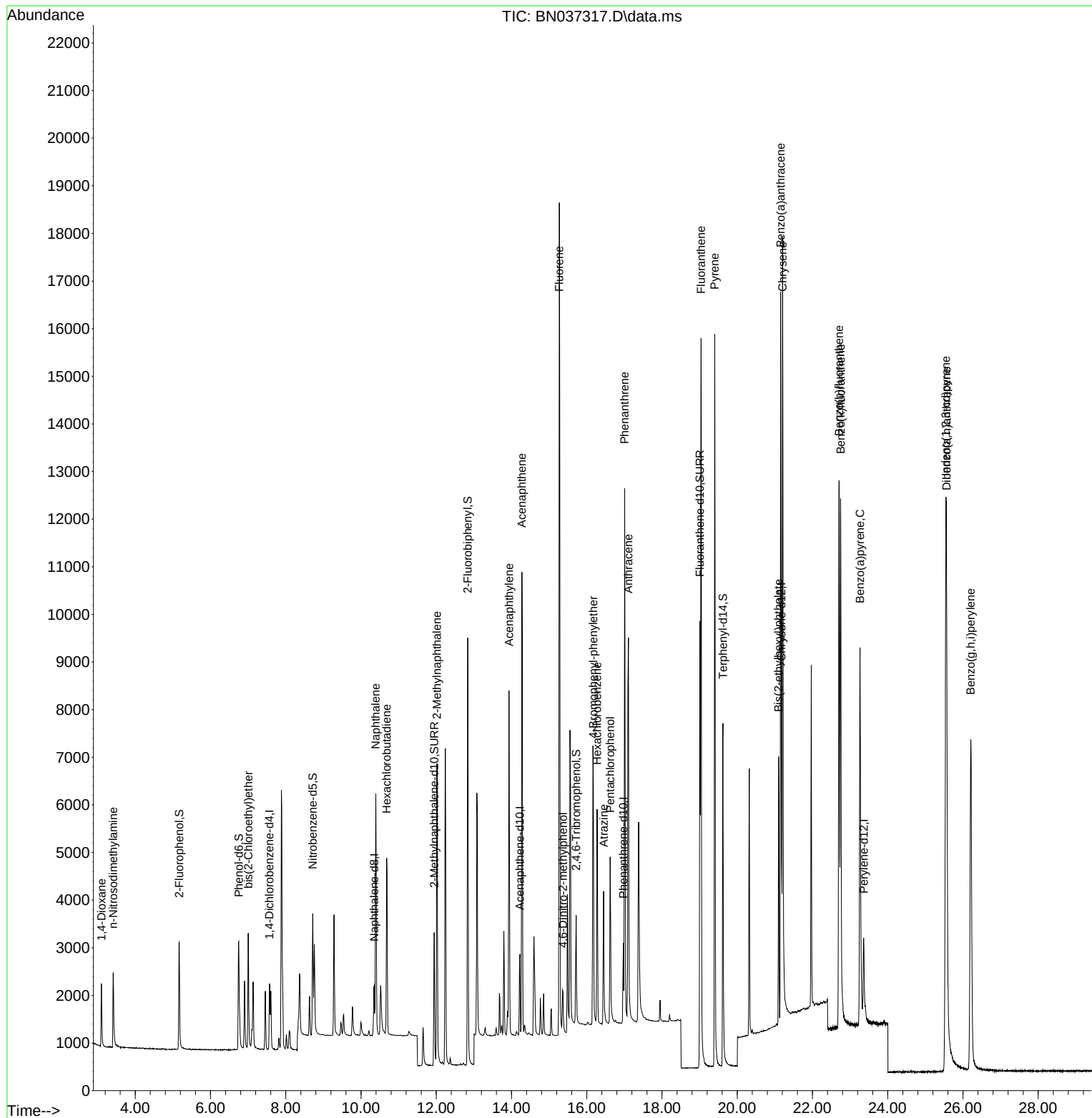
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	695	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1486	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1057	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2360	0.400	ng	0.00
29) Chrysene-d12	21.170	240	2368	0.400	ng	0.00
35) Perylene-d12	23.362	264	2466	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	2088	1.653	ng	0.00
5) Phenol-d6	6.751	99	2223	1.790	ng	0.00
8) Nitrobenzene-d5	8.717	82	2186	1.792	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	4143	1.715	ng	0.00
14) 2,4,6-Tribromophenol	15.717	330	1344	1.772	ng	0.00
15) 2-Fluorobiphenyl	12.837	172	8152	1.760	ng	0.00
27) Fluoranthene-d10	19.007	212	12185	1.629	ng	0.00
31) Terphenyl-d14	19.621	244	9448	1.739	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.104	88	956	1.541	ng	93
3) n-Nitrosodimethylamine	3.415	42	1177	1.637	ng	# 91
6) bis(2-Chloroethyl)ether	7.004	93	1980	1.862	ng	96
9) Naphthalene	10.393	128	6447	1.677	ng	# 88
10) Hexachlorobutadiene	10.682	225	3213	1.652	ng	# 99
12) 2-Methylnaphthalene	12.021	142	4770	1.761	ng	97
16) Acenaphthylene	13.935	152	7475	1.681	ng	99
17) Acenaphthene	14.277	154	4941	1.673	ng	97
18) Fluorene	15.271	166	7155	1.710	ng	98
20) 4,6-Dinitro-2-methylph...	15.367	198	1266	1.788	ng	# 44
21) 4-Bromophenyl-phenylether	16.177	248	3307	1.689	ng	# 92
22) Hexachlorobenzene	16.276	284	3343	1.629	ng	97
23) Atrazine	16.450	200	2600	1.698	ng	# 84
24) Pentachlorophenol	16.624	266	1931	1.700	ng	97
25) Phenanthrene	17.008	178	11198	1.685	ng	99
26) Anthracene	17.108	178	10558	1.694	ng	99
28) Fluoranthene	19.040	202	15227	1.650	ng	100
30) Pyrene	19.402	202	15172	1.682	ng	100
32) Benzo(a)anthracene	21.153	228	13531	1.774	ng	97
33) Chrysene	21.206	228	16061	1.650	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	4961	1.587	ng	98
36) Indeno(1,2,3-cd)pyrene	25.546	276	18197	1.755	ng	# 92
37) Benzo(b)fluoranthene	22.708	252	15222	1.767	ng	# 84
38) Benzo(k)fluoranthene	22.748	252	16052	1.697	ng	# 85
39) Benzo(a)pyrene	23.263	252	13538	1.697	ng	# 77
40) Dibenzo(a,h)anthracene	25.561	278	14773	1.790	ng	# 74
41) Benzo(g,h,i)perylene	26.207	276	16387	1.724	ng	# 92

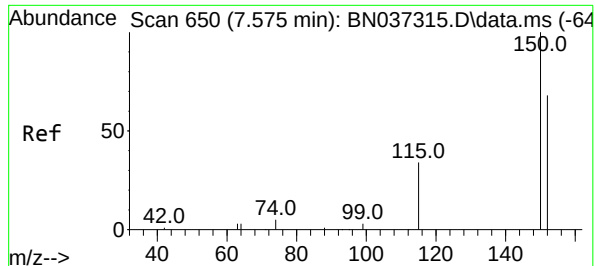
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037317.D
Acq On : 18 Jun 2025 16:31
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 18 18:33:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration

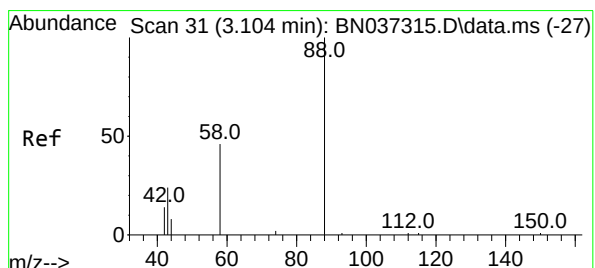
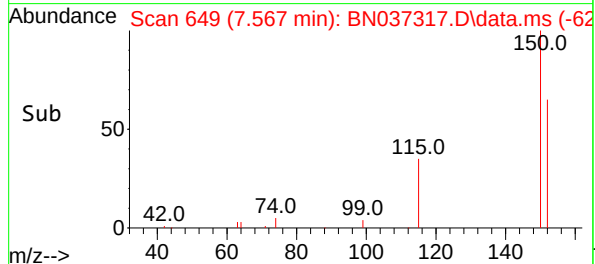
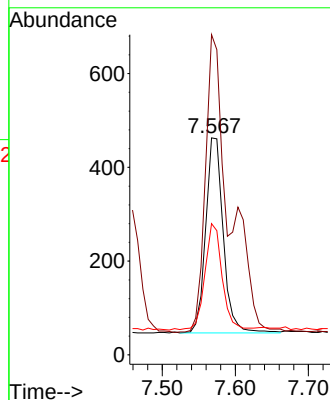
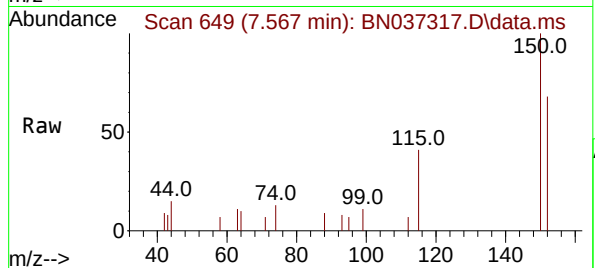




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.567 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

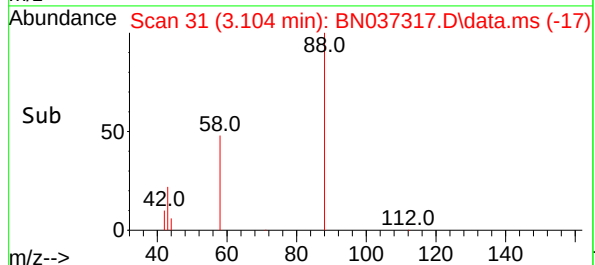
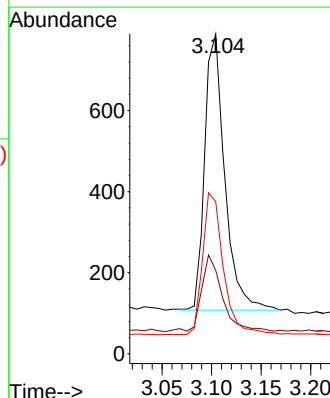
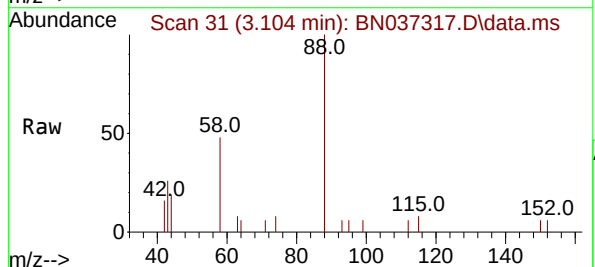
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

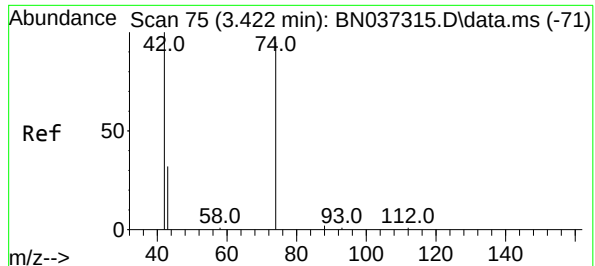
Tgt Ion:152 Resp: 695
Ion Ratio Lower Upper
152 100
150 147.5 112.7 169.1
115 60.5 45.9 68.9



#2
1,4-Dioxane
Concen: 1.541 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion: 88 Resp: 956
Ion Ratio Lower Upper
88 100
43 28.6 21.0 31.6
58 53.3 38.0 57.0

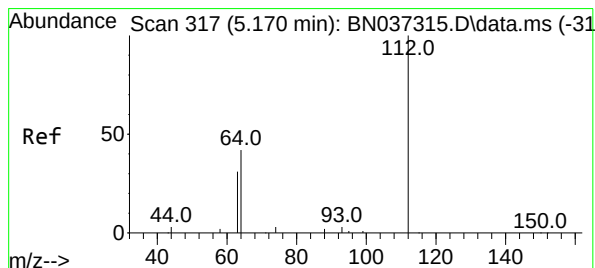
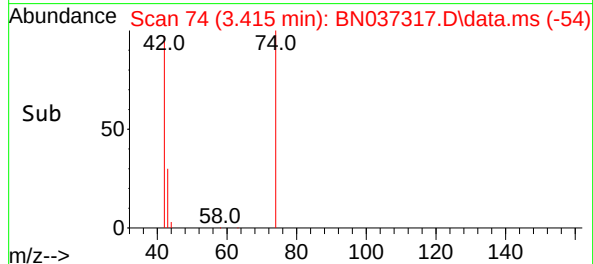
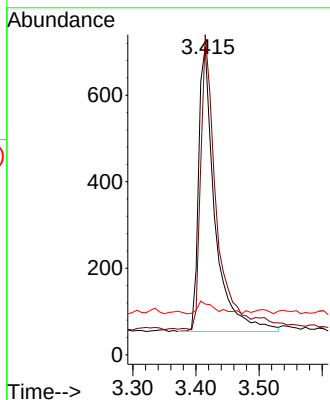
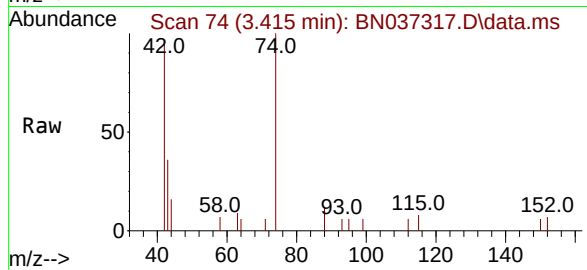




#3
n-Nitrosodimethylamine
Concen: 1.637 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.008 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

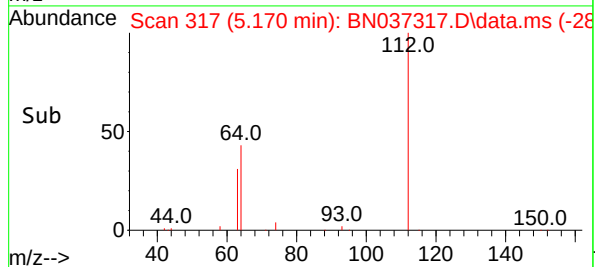
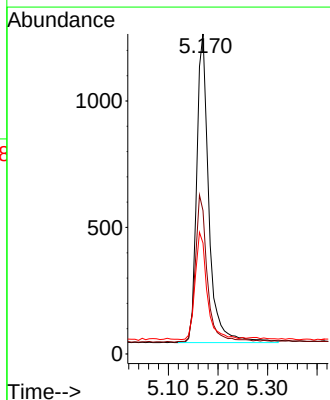
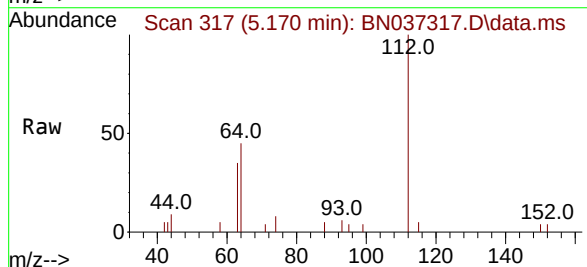
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

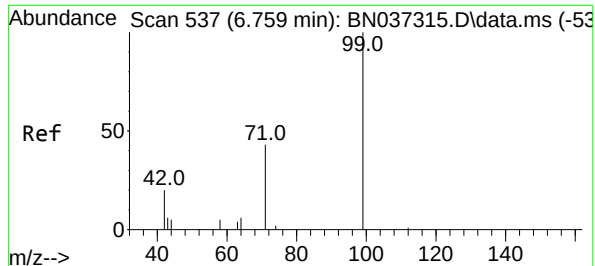
Tgt Ion: 42 Resp: 1177
Ion Ratio Lower Upper
42 100
74 95.4 84.3 126.5
44 4.8 5.0 7.4#



#4
2-Fluorophenol
Concen: 1.653 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion: 112 Resp: 2088
Ion Ratio Lower Upper
112 100
64 46.6 38.7 58.1
63 33.9 26.4 39.6

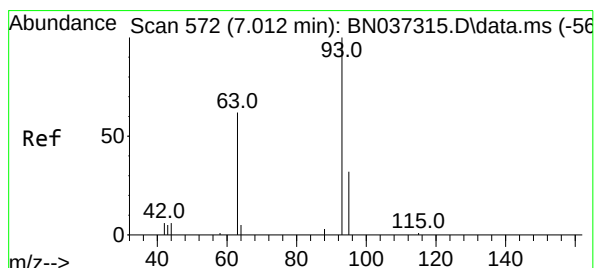
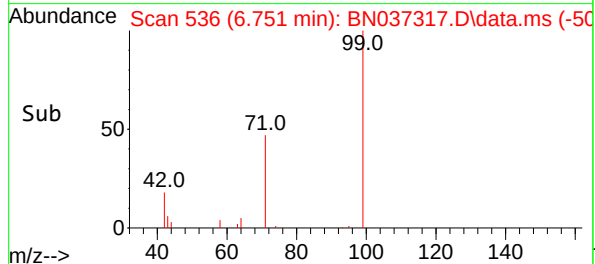
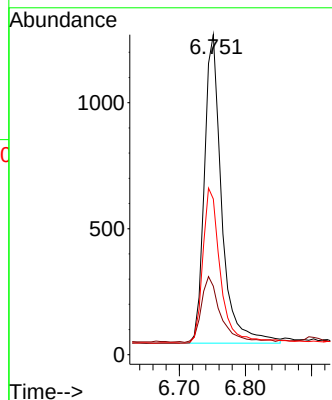
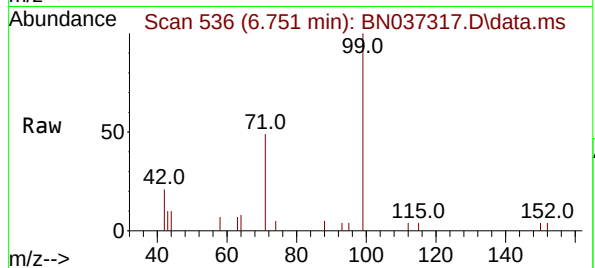




#5
Phenol-d6
Concen: 1.790 ng
RT: 6.751 min Scan# 511
Delta R.T. -0.008 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

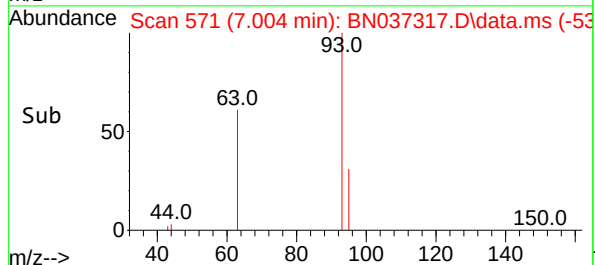
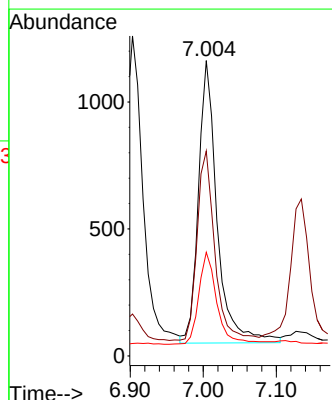
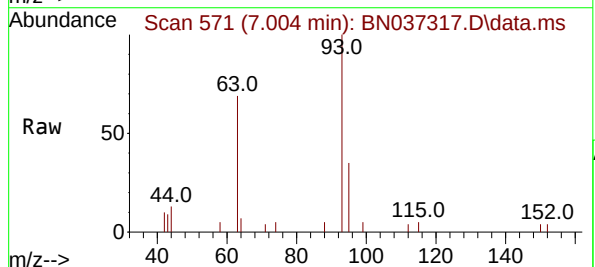
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

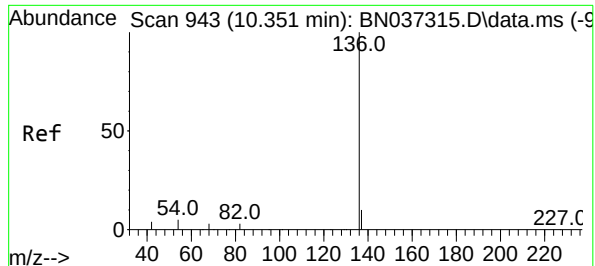
Tgt Ion: 99 Resp: 2223
Ion Ratio Lower Upper
99 100
42 23.2 19.8 29.8
71 52.2 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 1.862 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.008 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion: 93 Resp: 1980
Ion Ratio Lower Upper
93 100
63 63.6 53.2 79.8
95 31.5 27.3 40.9

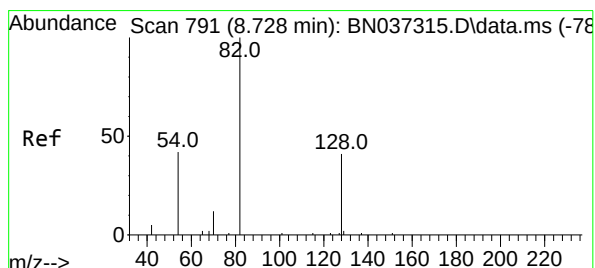
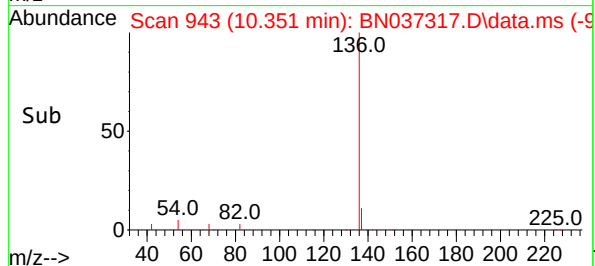
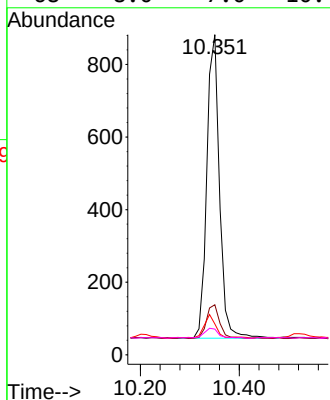
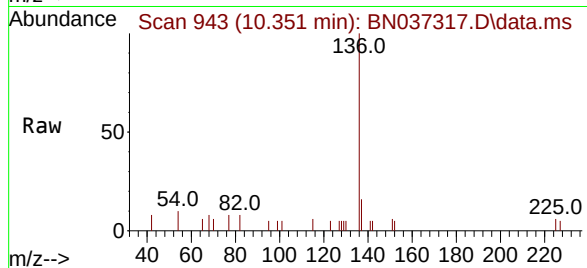




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

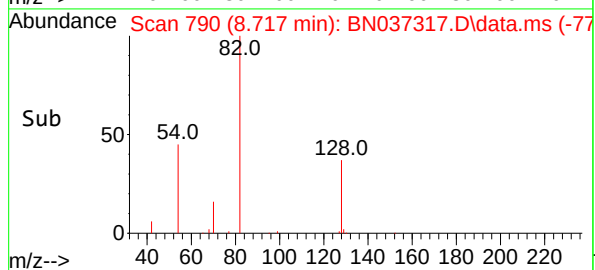
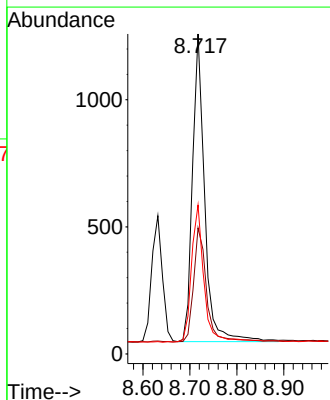
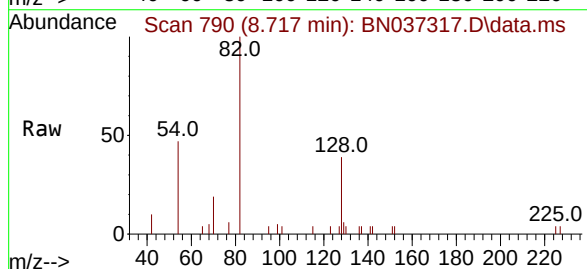
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

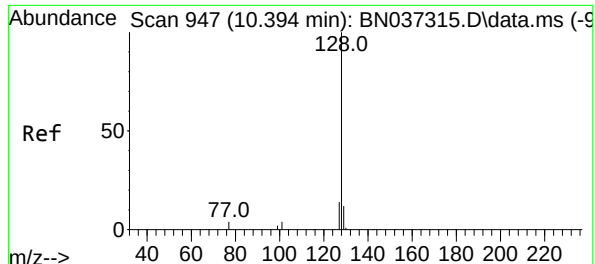
Tgt Ion:	136	Resp:	1486
Ion	Ratio	Lower	Upper
136	100		
137	15.6	12.2	18.2
54	9.6	8.8	13.2
68	8.0	7.0	10.4



#8
Nitrobenzene-d5
Concen: 1.792 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion:	82	Resp:	2186
Ion	Ratio	Lower	Upper
82	100		
128	39.4	42.5	63.7#
54	46.5	43.2	64.8





#9

Naphthalene

Concen: 1.677 ng

RT: 10.393 min Scan# 947

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

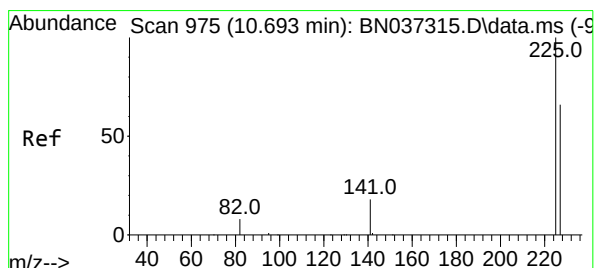
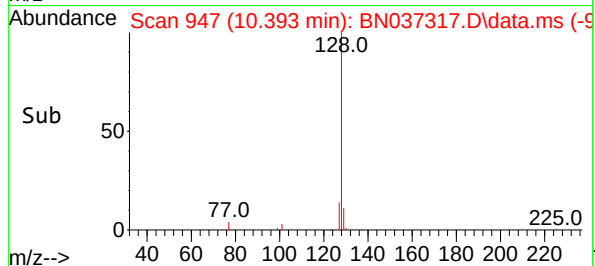
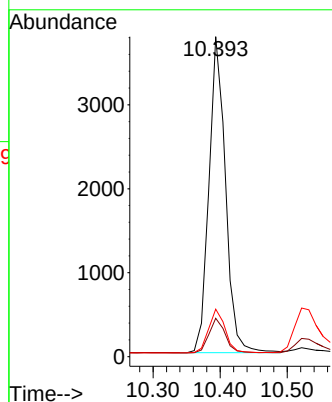
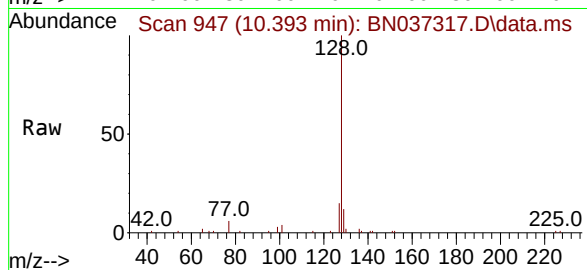
Tgt Ion:128 Resp: 6447

Ion Ratio Lower Upper

128 100

129 12.0 14.0 21.0#

127 14.9 15.8 23.8#



#10

Hexachlorobutadiene

Concen: 1.652 ng

RT: 10.682 min Scan# 974

Delta R.T. -0.011 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

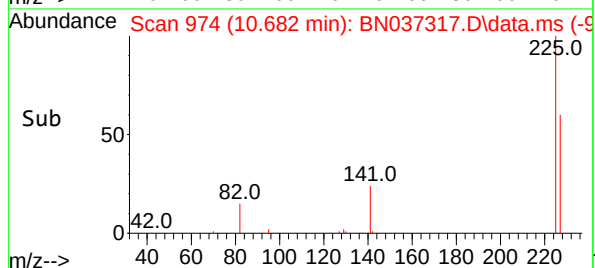
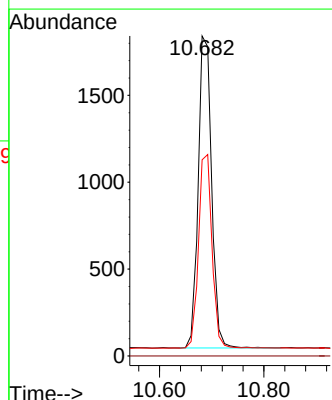
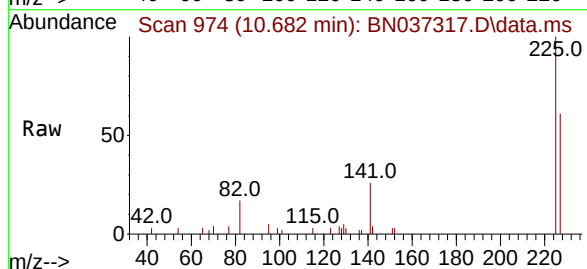
Tgt Ion:225 Resp: 3213

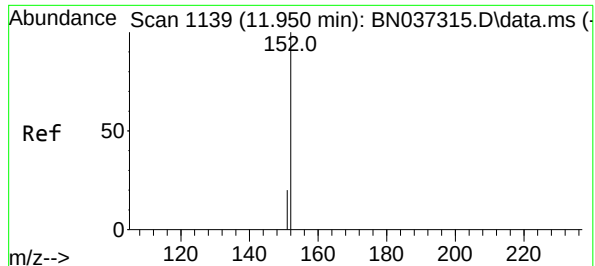
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.4 50.3 75.5

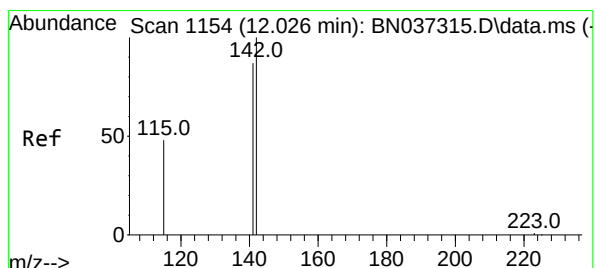
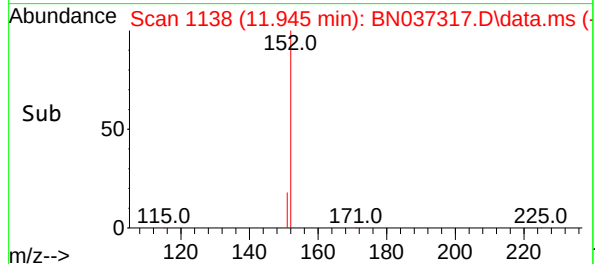
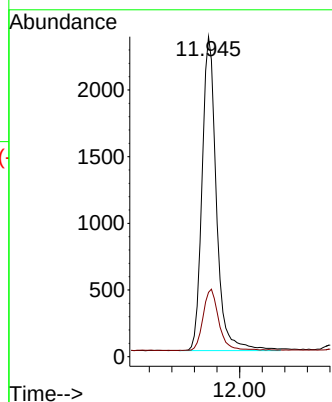
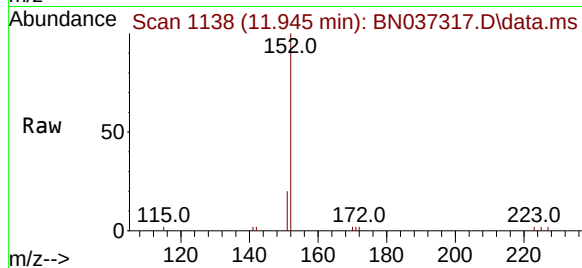




#11
2-Methylnaphthalene-d10
Concen: 1.715 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

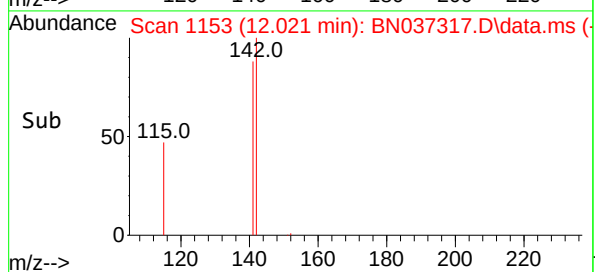
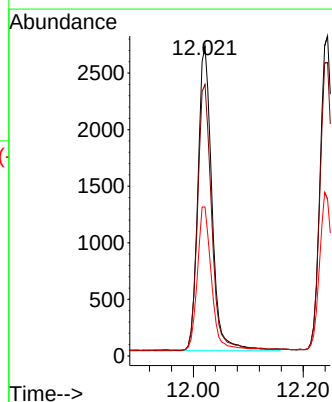
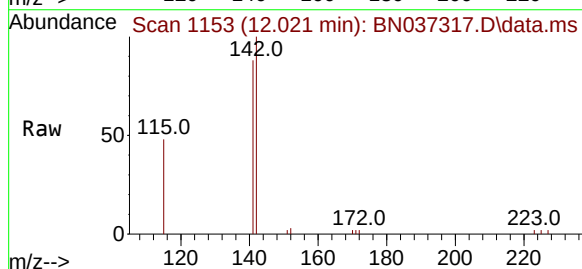
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

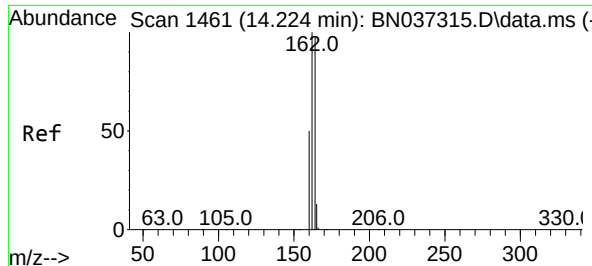
Tgt Ion:152 Resp: 4143
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.0



#12
2-Methylnaphthalene
Concen: 1.761 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion:142 Resp: 4770
Ion Ratio Lower Upper
142 100
141 87.7 70.2 105.2
115 48.1 43.0 64.4

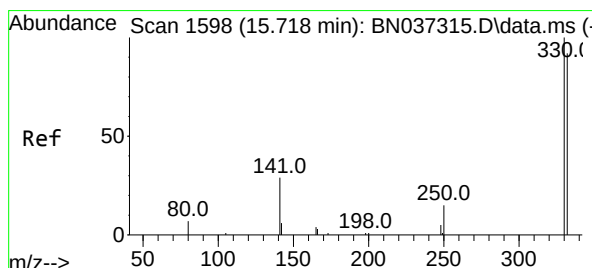
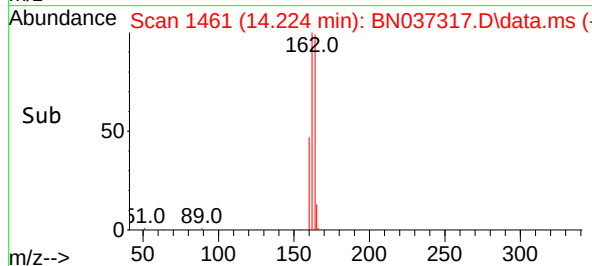
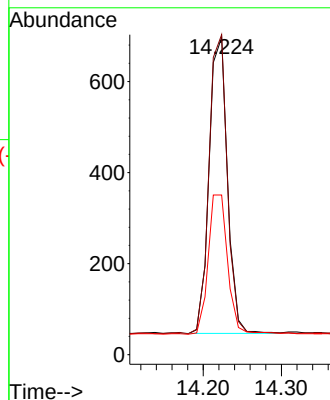
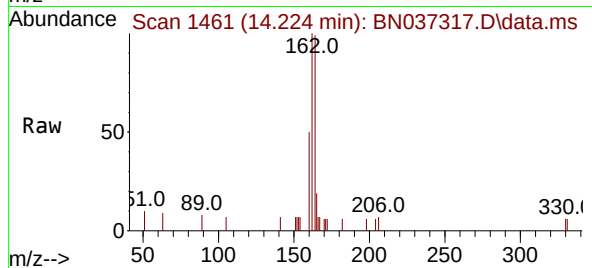




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

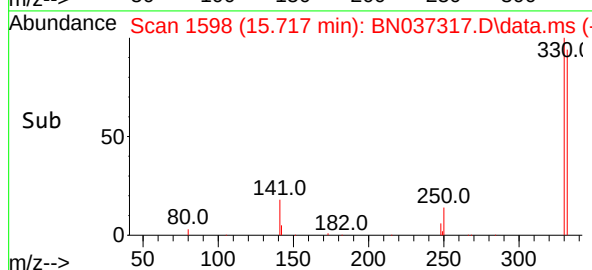
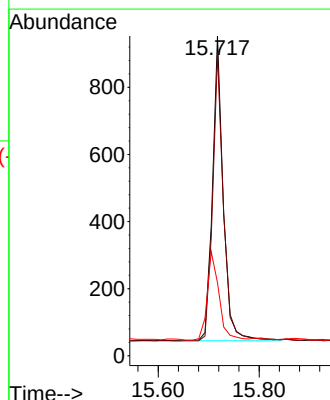
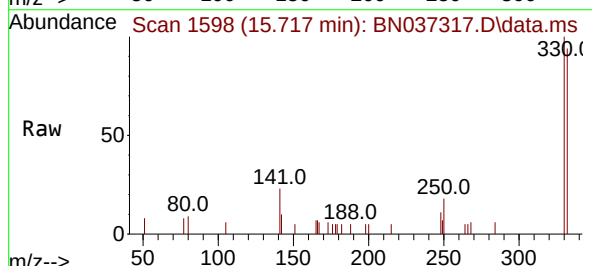
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

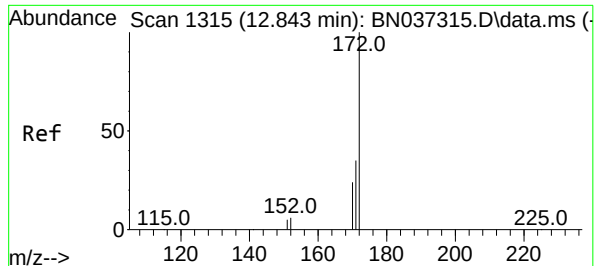
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.5	122.3
160	50.4	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 1.772 ng
RT: 15.717 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.0	78.4	117.6
141	31.7	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 1.760 ng

RT: 12.837 min Scan# 1314

Delta R.T. -0.005 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

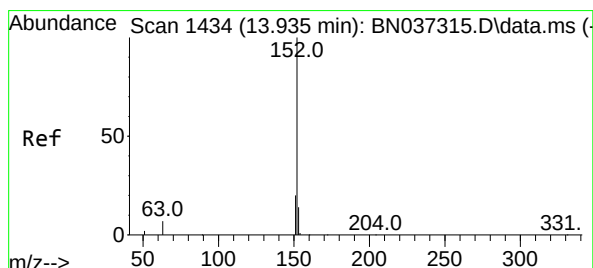
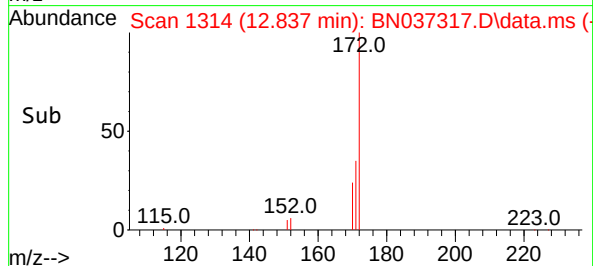
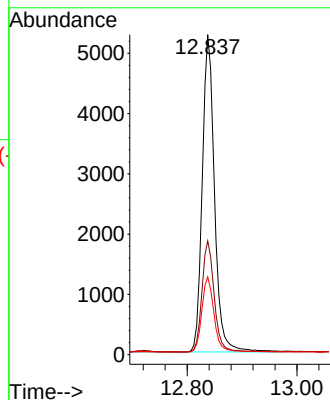
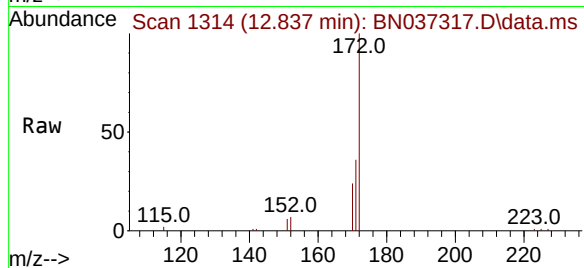
Tgt Ion:172 Resp: 8152

Ion Ratio Lower Upper

172 100

171 35.5 30.8 46.2

170 24.3 21.9 32.9



#16

Acenaphthylene

Concen: 1.681 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

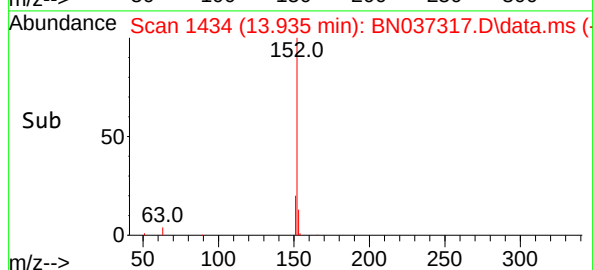
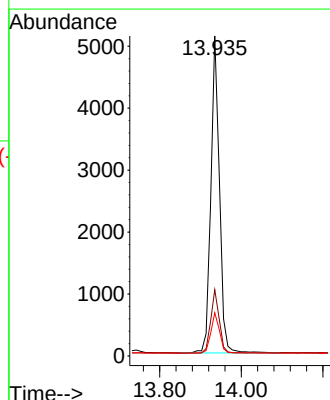
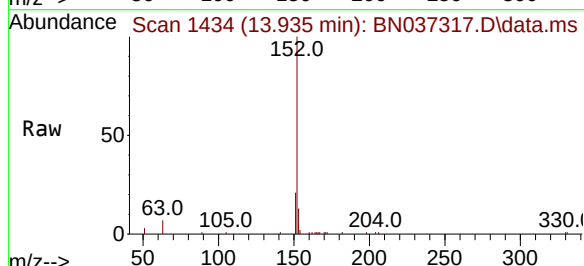
Tgt Ion:152 Resp: 7475

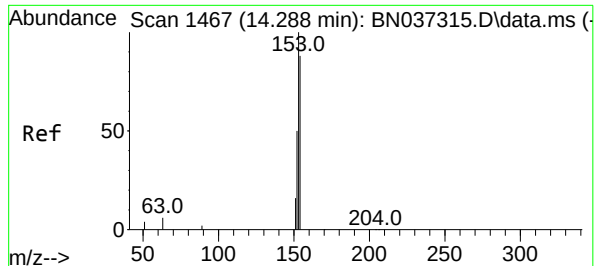
Ion Ratio Lower Upper

152 100

151 19.8 16.6 24.8

153 12.9 10.2 15.2

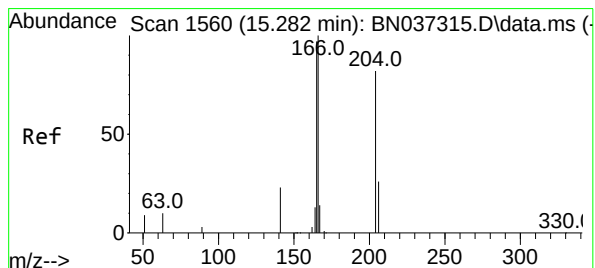
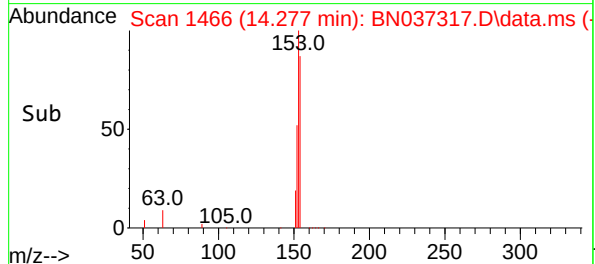
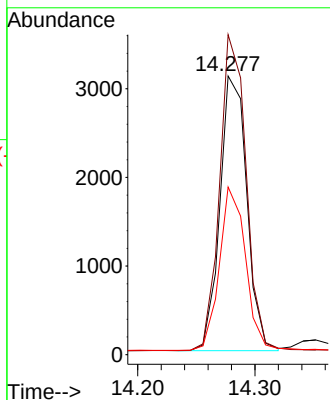
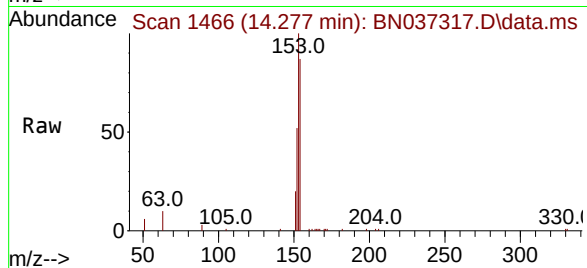




#17
Acenaphthene
Concen: 1.673 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

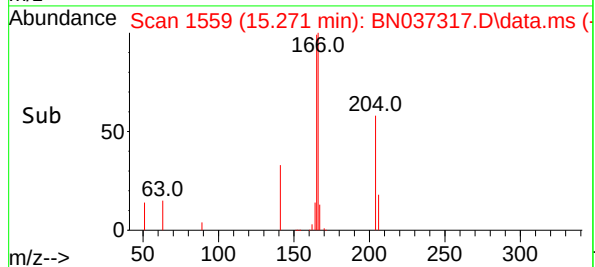
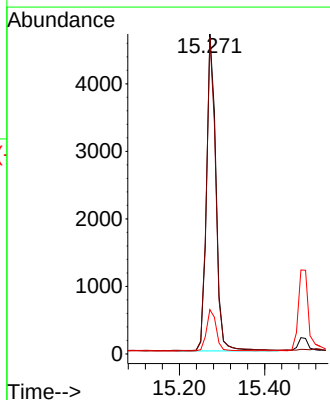
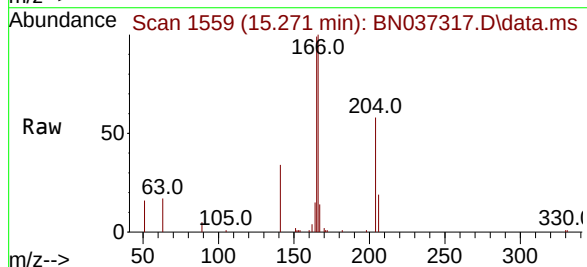
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

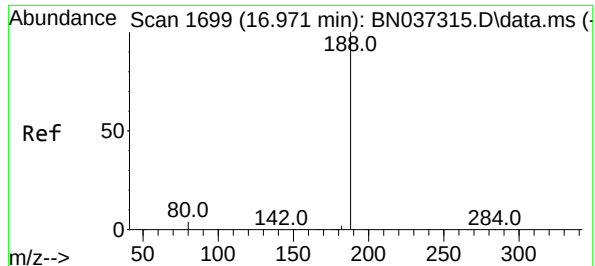
Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.6	93.1	139.7
152	58.5	48.6	73.0



#18
Fluorene
Concen: 1.710 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.7	79.5	119.3
167	13.5	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: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

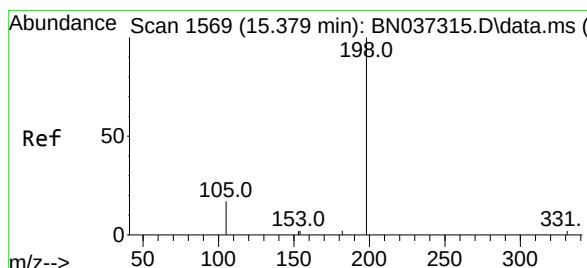
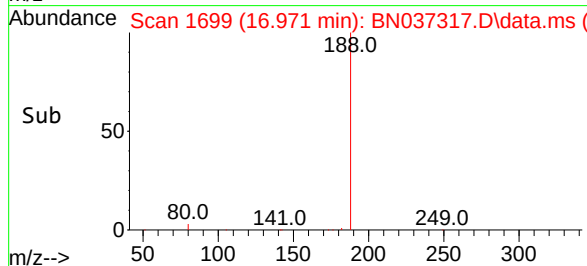
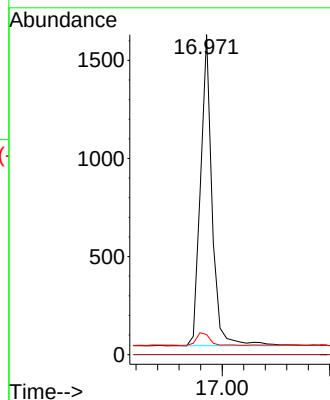
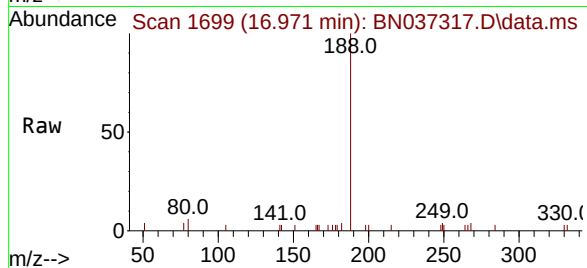
Tgt Ion:188 Resp: 2360

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.3 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 1.788 ng

RT: 15.367 min Scan# 1568

Delta R.T. -0.011 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

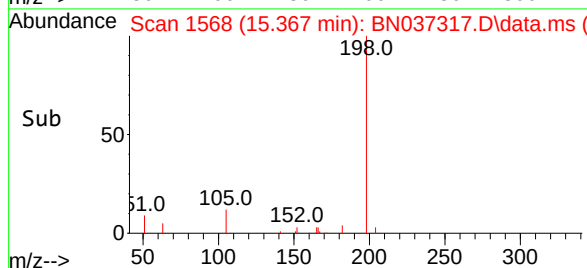
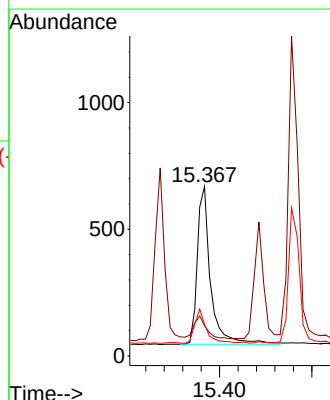
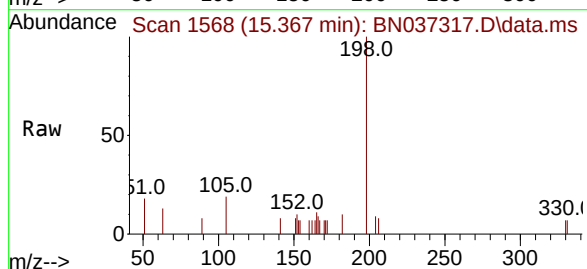
Tgt Ion:198 Resp: 1266

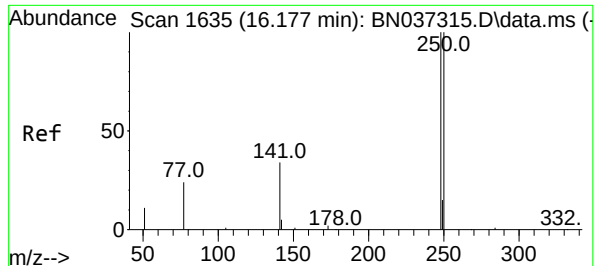
Ion Ratio Lower Upper

198 100

51 17.8 51.4 77.0#

105 18.7 45.5 68.3#

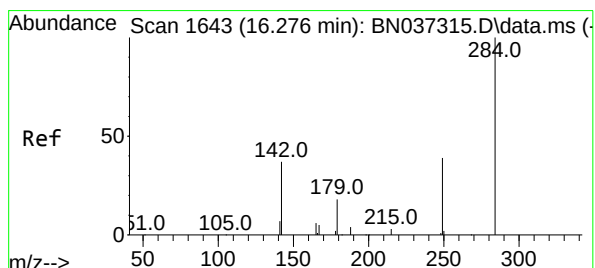
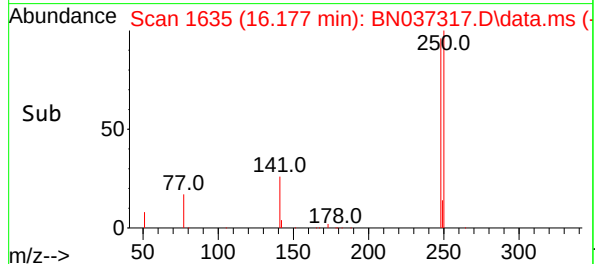
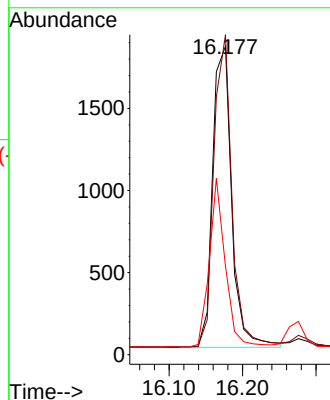
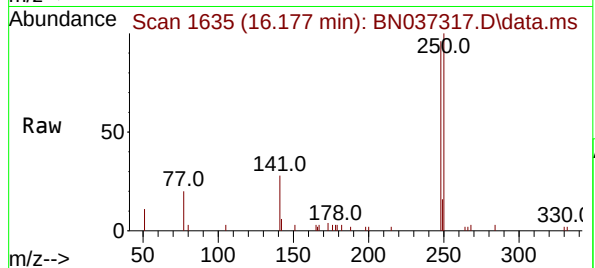




#21
4-Bromophenyl-phenylether
Concen: 1.689 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

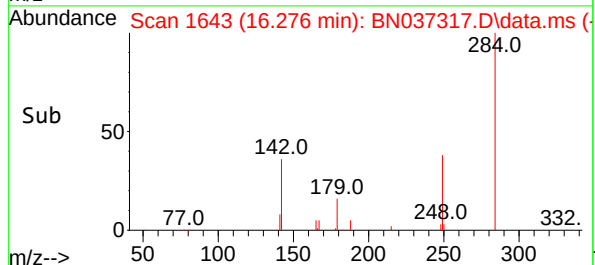
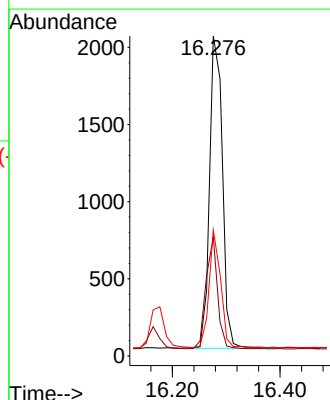
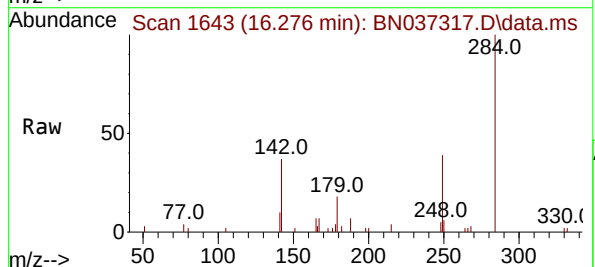
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

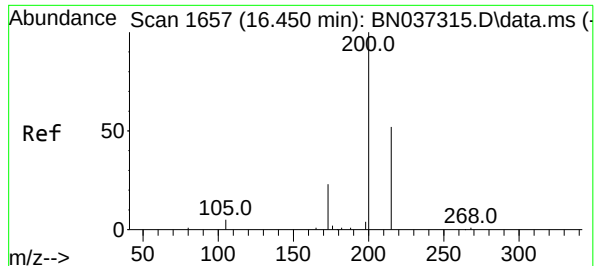
Tgt Ion:248 Resp: 3307
Ion Ratio Lower Upper
248 100
250 103.7 80.4 120.6
141 28.6 33.3 49.9#



#22
Hexachlorobenzene
Concen: 1.629 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion:284 Resp: 3343
Ion Ratio Lower Upper
284 100
142 32.8 27.0 40.6
249 34.0 28.8 43.2

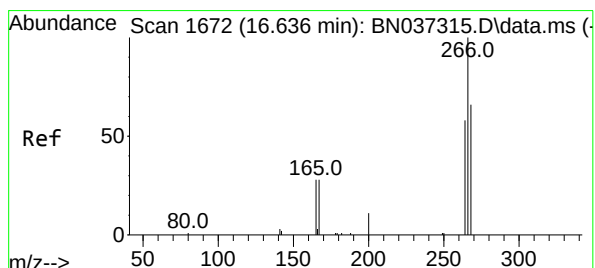
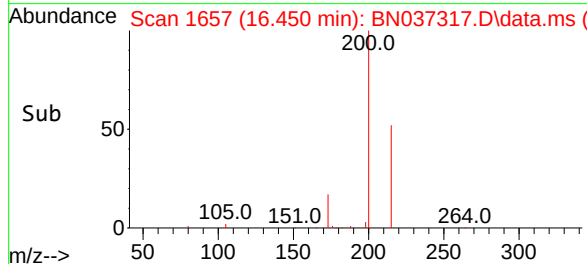
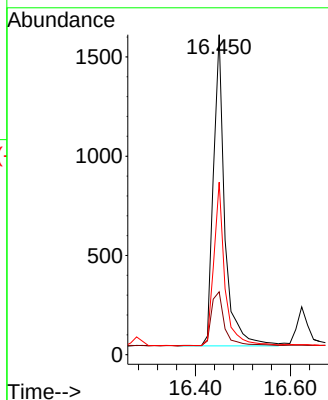
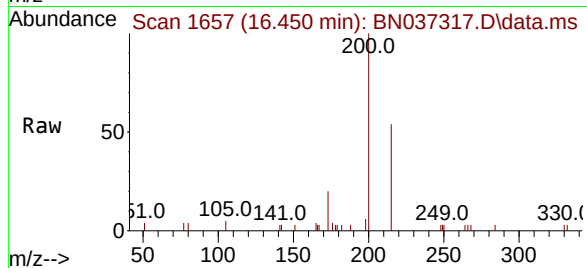




#23
Atrazine
Concen: 1.698 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

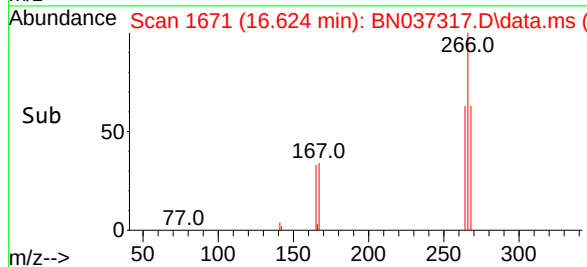
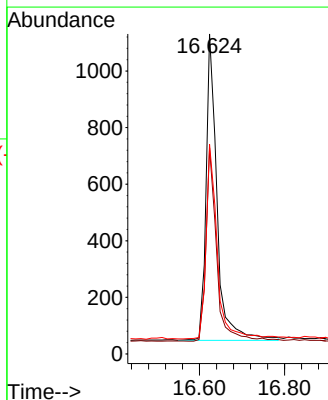
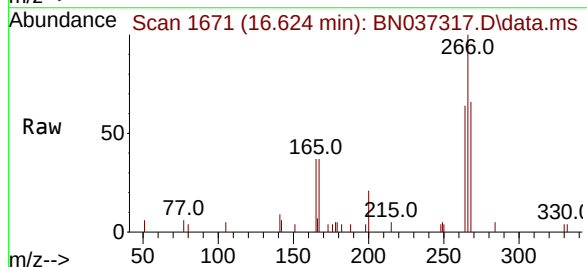
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

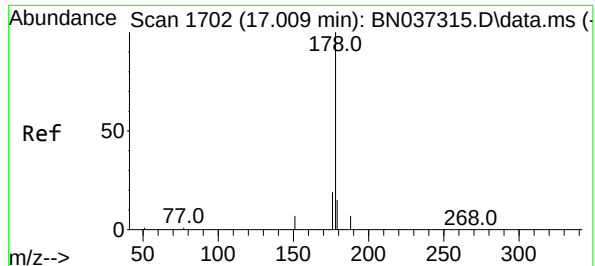
Tgt Ion	Ratio	Lower	Upper
200	100		
173	19.7	29.2	43.8#
215	53.9	48.8	73.2



#24
Pentachlorophenol
Concen: 1.700 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.013 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion	Ratio	Lower	Upper
266	100		
264	61.7	50.3	75.5
268	65.1	55.3	82.9





#25

Phenanthrene

Concen: 1.685 ng

RT: 17.008 min Scan# 1710

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

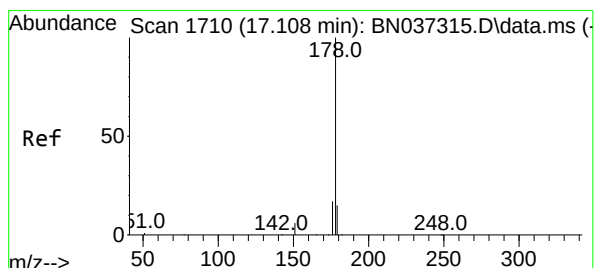
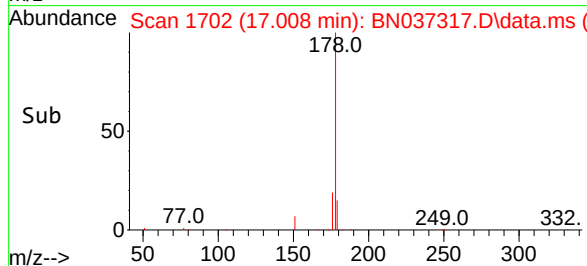
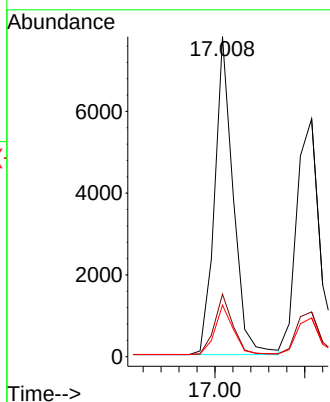
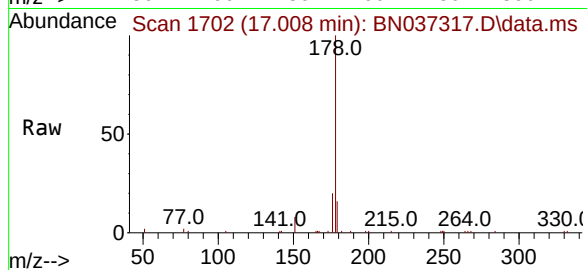
Tgt Ion:178 Resp: 11198

Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

179 15.5 12.9 19.3



#26

Anthracene

Concen: 1.694 ng

RT: 17.108 min Scan# 1710

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

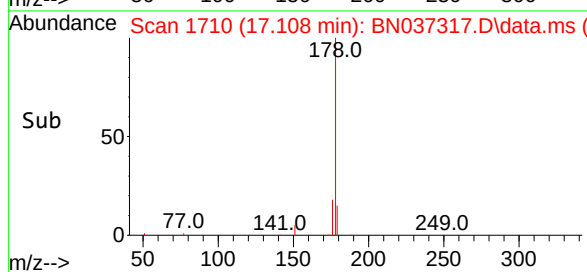
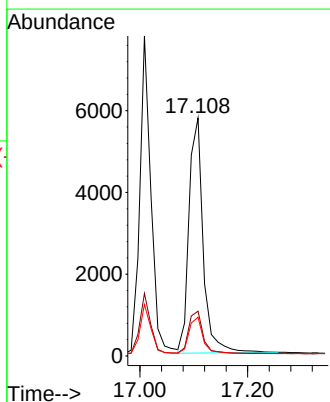
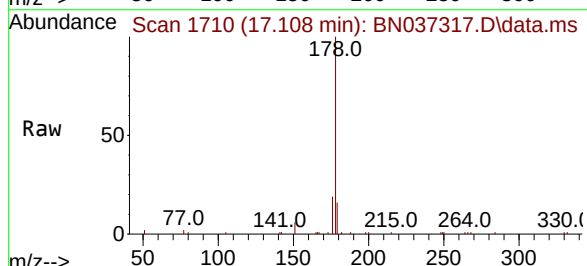
Tgt Ion:178 Resp: 10558

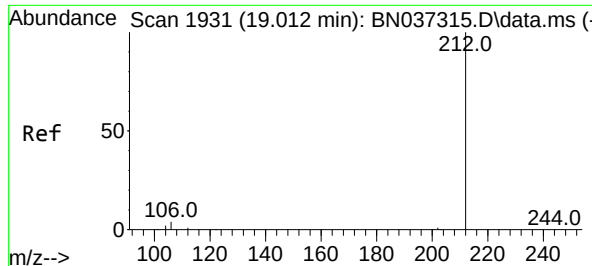
Ion Ratio Lower Upper

178 100

176 18.5 14.7 22.1

179 15.5 13.0 19.6





#27

Fluoranthene-d10

Concen: 1.629 ng

RT: 19.007 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

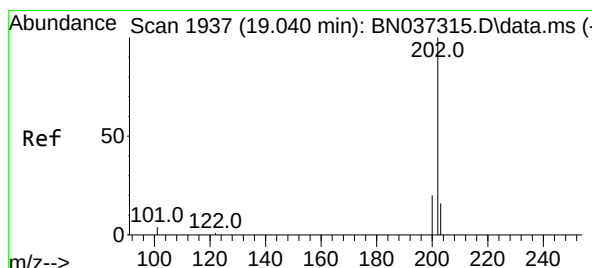
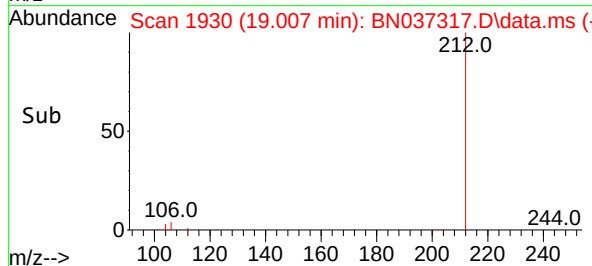
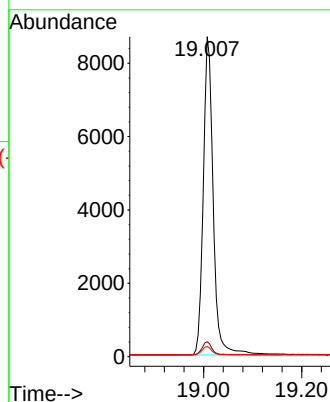
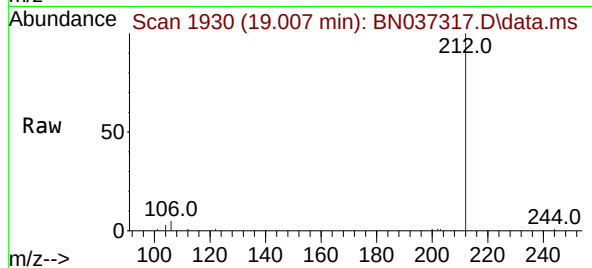
Tgt Ion:212 Resp: 12185

Ion Ratio Lower Upper

212 100

106 4.1 3.0 4.4

104 2.6 2.0 3.0



#28

Fluoranthene

Concen: 1.650 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

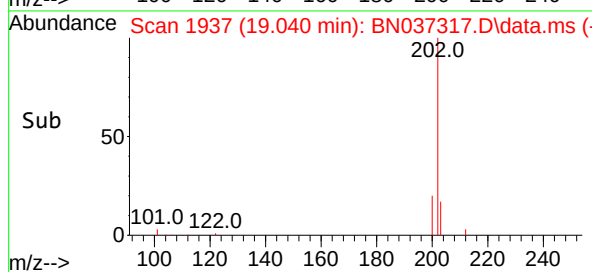
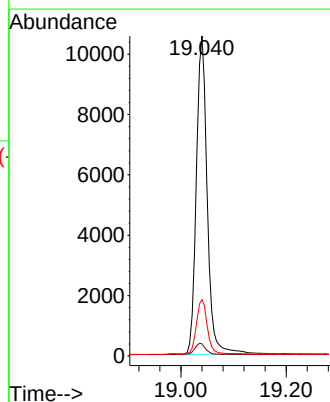
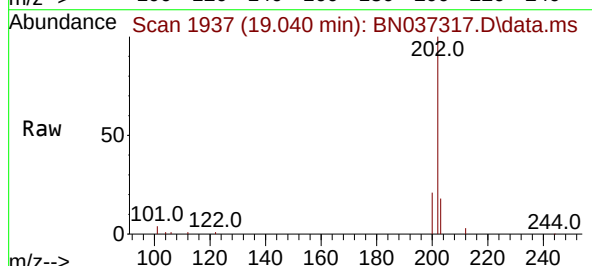
Tgt Ion:202 Resp: 15227

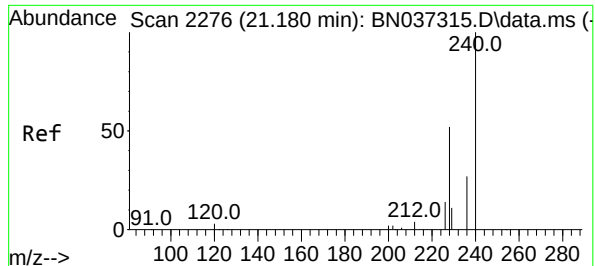
Ion Ratio Lower Upper

202 100

101 3.6 3.0 4.6

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.170 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

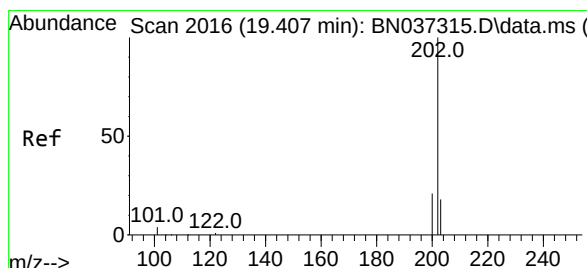
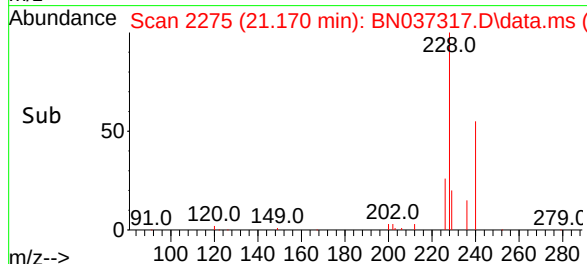
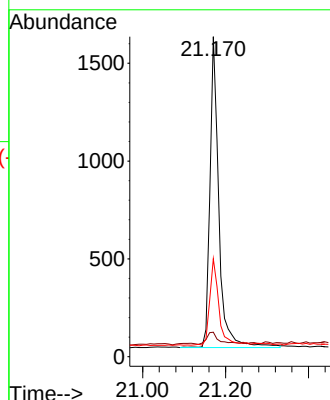
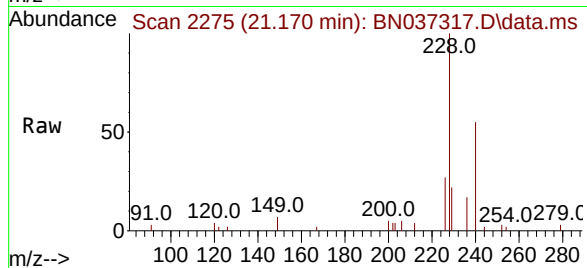
Tgt Ion:240 Resp: 2368

Ion Ratio Lower Upper

240 100

120 7.6 7.5 11.3

236 30.6 24.9 37.3



#30

Pyrene

Concen: 1.682 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.005 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

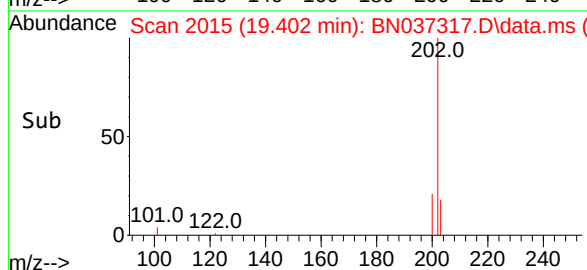
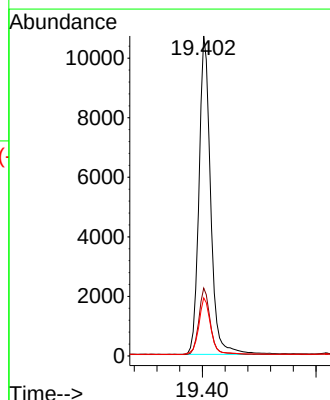
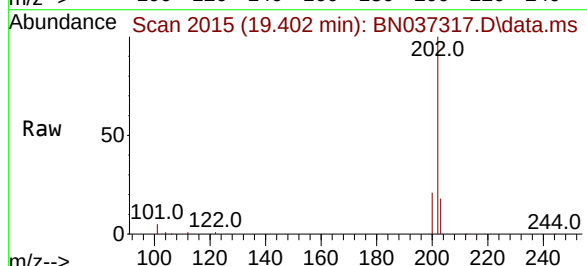
Tgt Ion:202 Resp: 15172

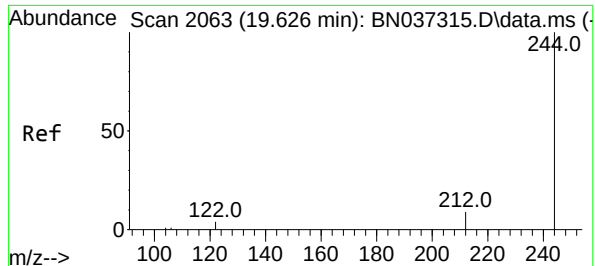
Ion Ratio Lower Upper

202 100

200 20.6 16.8 25.2

203 18.1 14.5 21.7

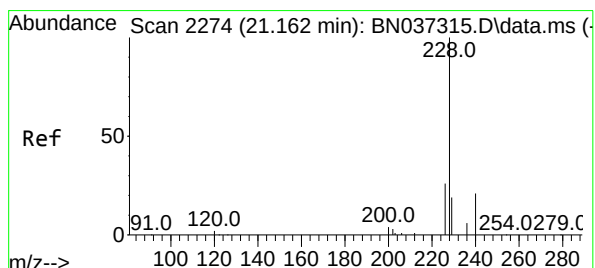
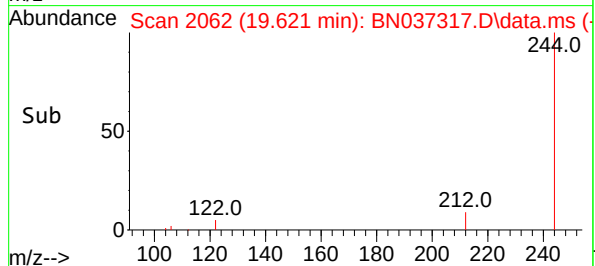
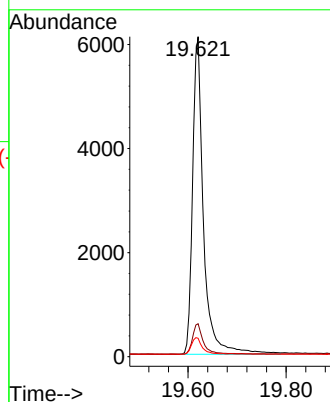
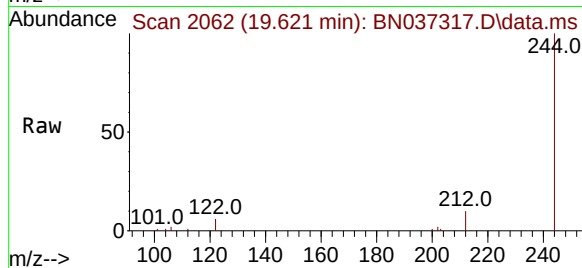




#31
Terphenyl-d14
Concen: 1.739 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

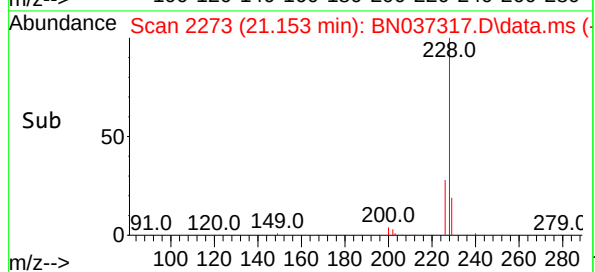
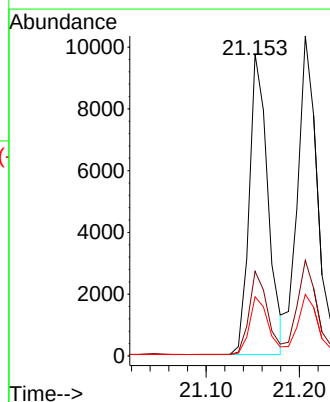
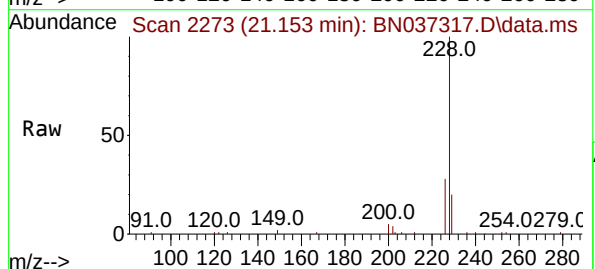
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

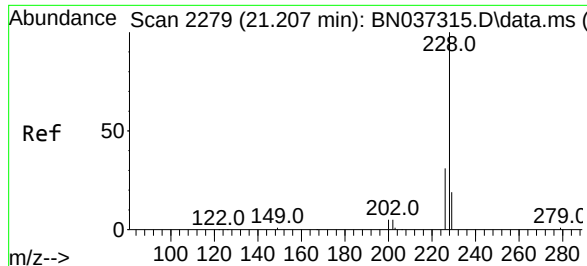
Tgt Ion:244 Resp: 9448
Ion Ratio Lower Upper
244 100
212 10.3 11.1 16.7#
122 5.7 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 1.774 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037317.D
Acq: 18 Jun 2025 16:31

Tgt Ion:228 Resp: 13531
Ion Ratio Lower Upper
228 100
226 28.0 23.0 34.4
229 19.6 17.4 26.0





#33

Chrysene

Concen: 1.650 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

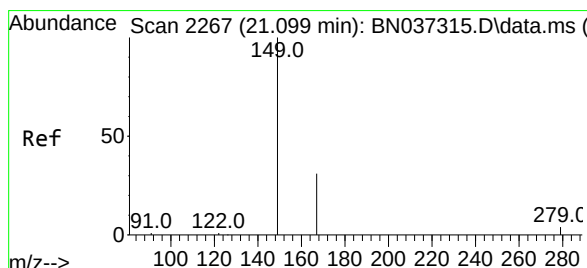
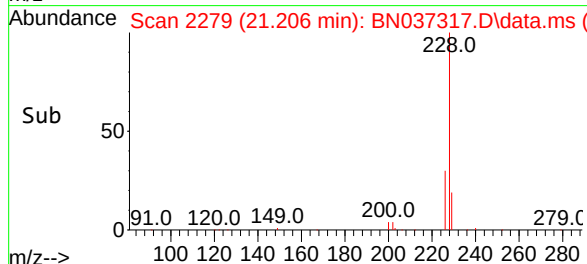
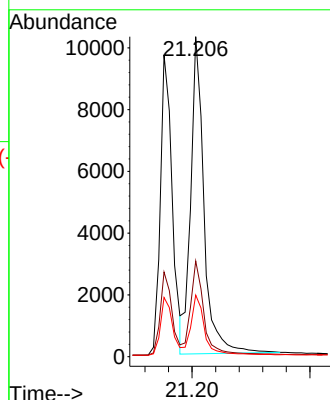
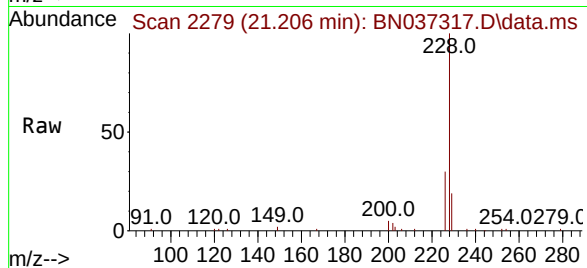
Tgt Ion:228 Resp: 16061

Ion Ratio Lower Upper

228 100

226 29.9 25.4 38.2

229 19.3 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.587 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

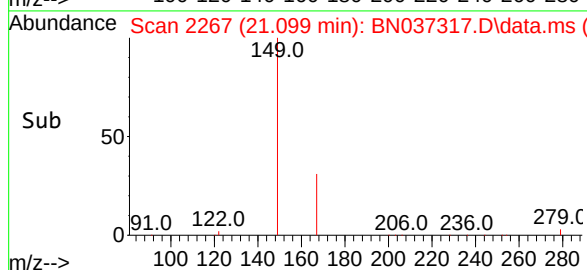
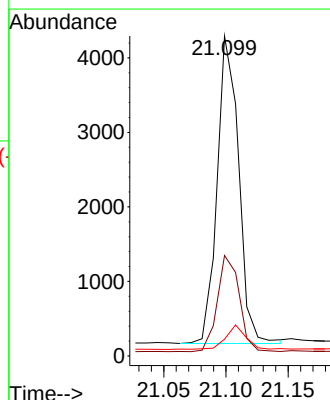
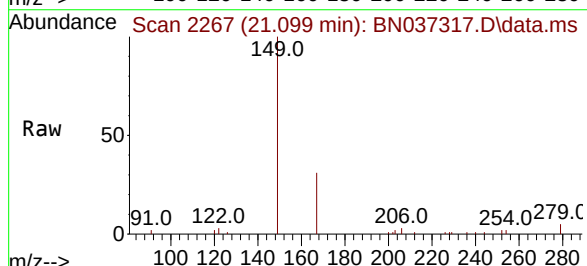
Tgt Ion:149 Resp: 4961

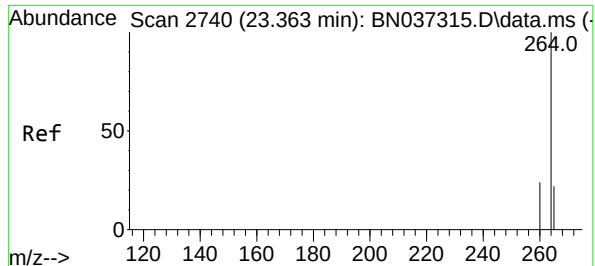
Ion Ratio Lower Upper

149 100

167 31.7 24.6 37.0

279 7.6 6.5 9.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.362 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

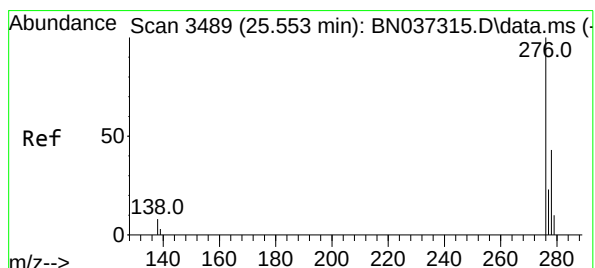
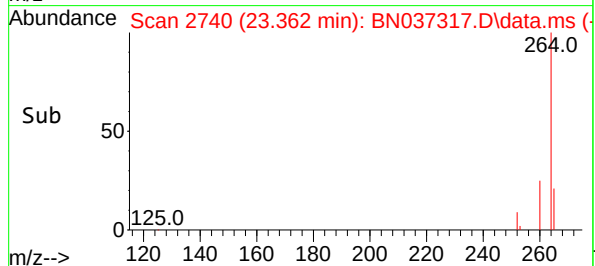
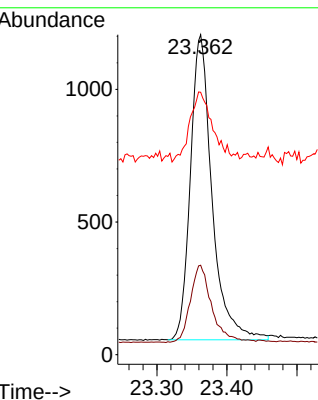
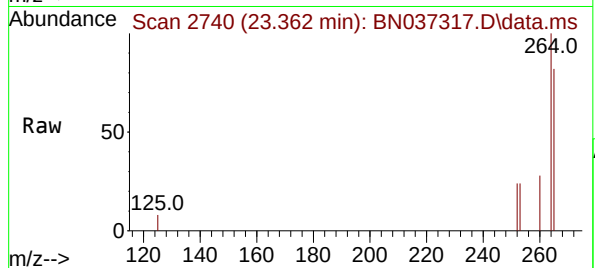
Tgt Ion:264 Resp: 2466

Ion Ratio Lower Upper

264 100

260 27.9 21.4 32.2

265 82.0 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.755 ng

RT: 25.546 min Scan# 3487

Delta R.T. -0.006 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

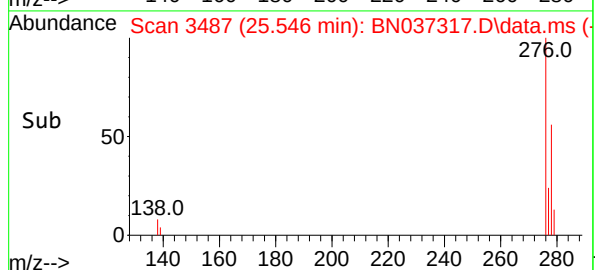
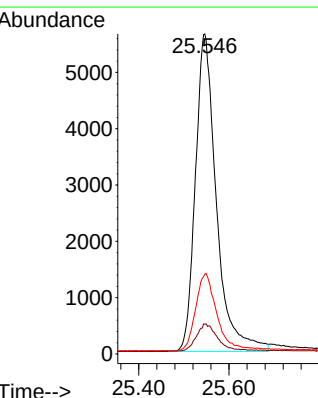
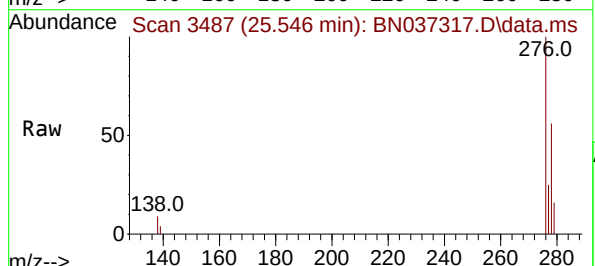
Tgt Ion:276 Resp: 18197

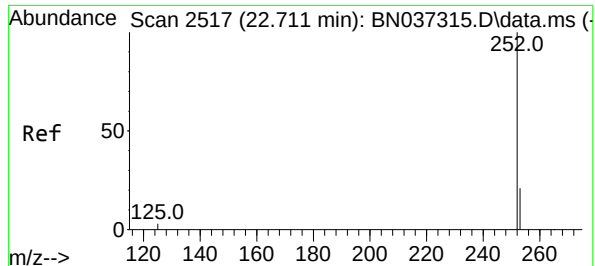
Ion Ratio Lower Upper

276 100

138 8.4 2.2 3.2#

277 24.5 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 1.767 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.003 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

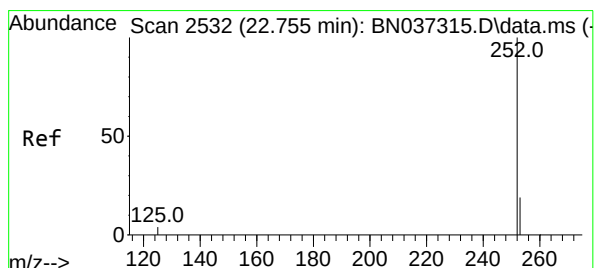
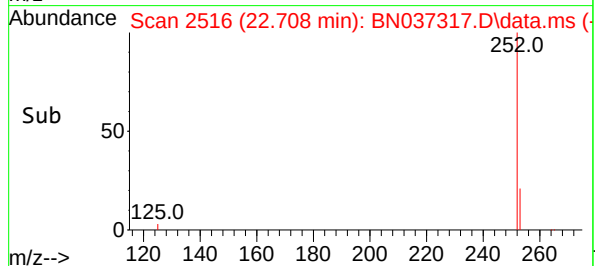
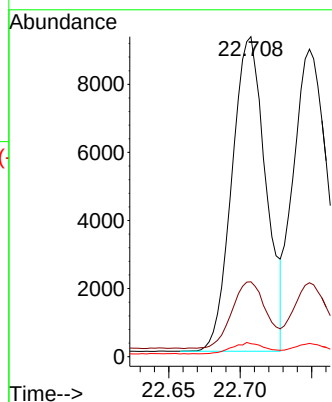
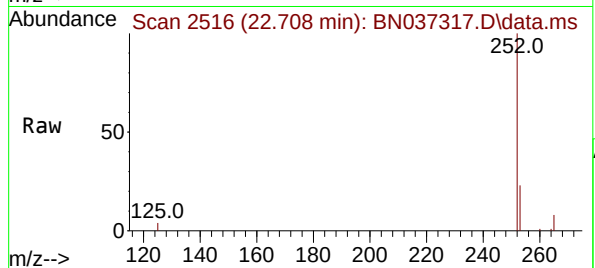
Tgt Ion:252 Resp: 15222

Ion Ratio Lower Upper

252 100

253 23.4 26.6 40.0#

125 4.1 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 1.697 ng

RT: 22.748 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

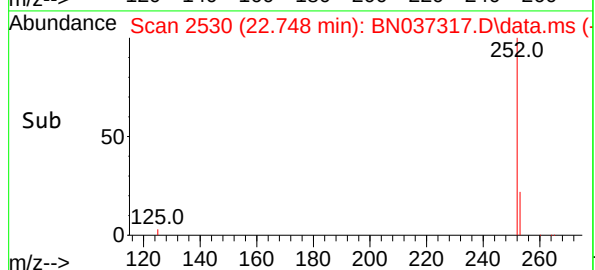
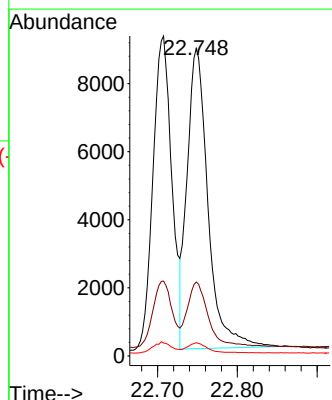
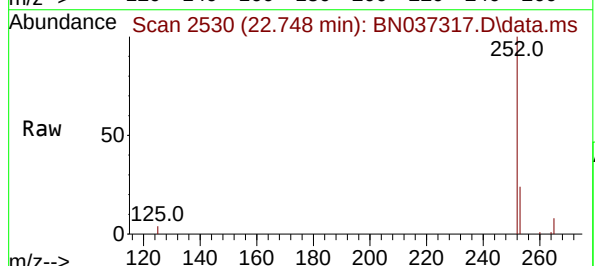
Tgt Ion:252 Resp: 16052

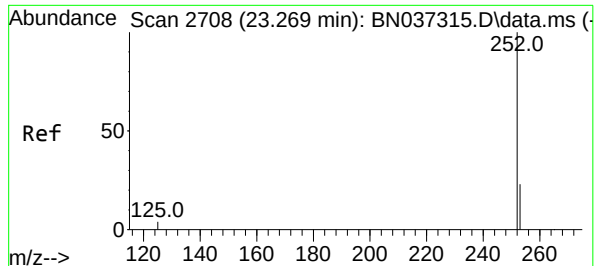
Ion Ratio Lower Upper

252 100

253 24.0 26.7 40.1#

125 4.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 1.697 ng

RT: 23.263 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

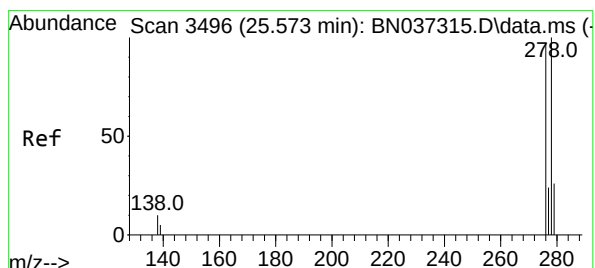
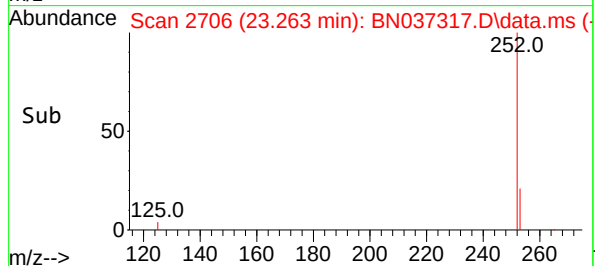
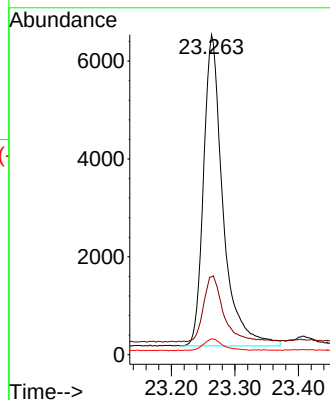
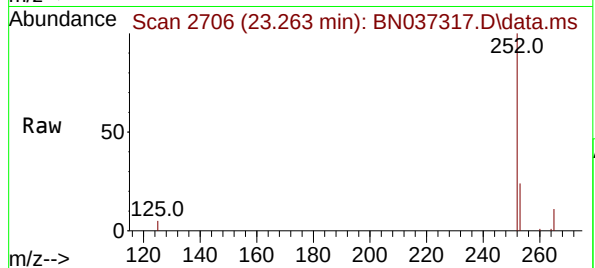
Tgt Ion:252 Resp: 13538

Ion Ratio Lower Upper

252 100

253 24.3 31.6 47.4#

125 5.0 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.790 ng

RT: 25.561 min Scan# 3492

Delta R.T. -0.012 min

Lab File: BN037317.D

Acq: 18 Jun 2025 16:31

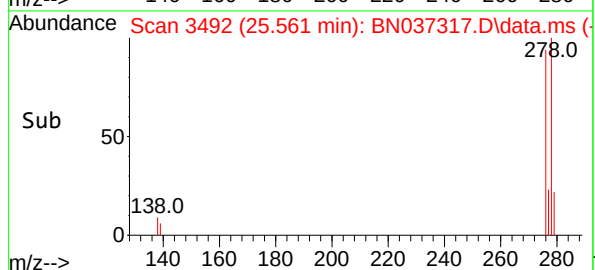
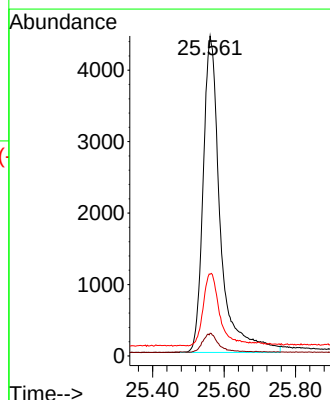
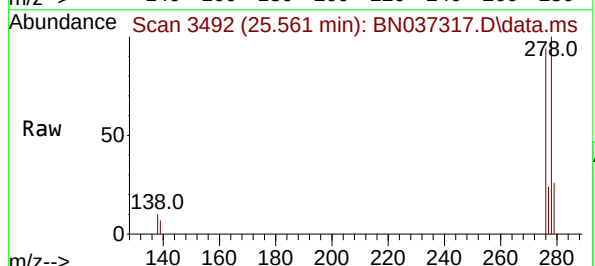
Tgt Ion:278 Resp: 14773

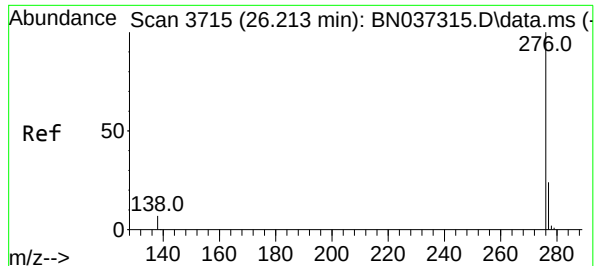
Ion Ratio Lower Upper

278 100

139 7.1 10.2 15.4#

279 25.5 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 1.724 ng

RT: 26.207 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037317.D

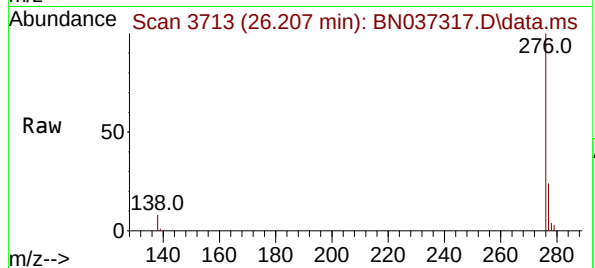
Acq: 18 Jun 2025 16:31

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



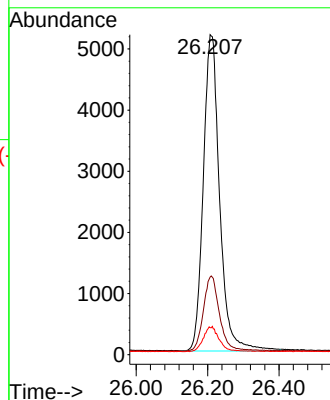
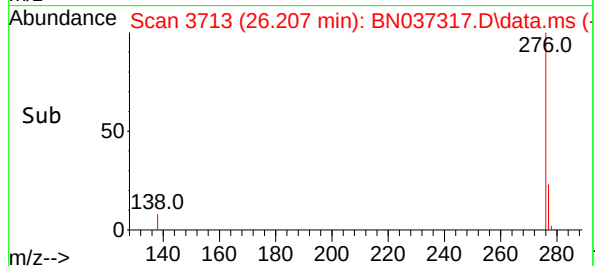
Tgt Ion:276 Resp: 16387

Ion Ratio Lower Upper

276 100

277 24.3 22.7 34.1

138 8.4 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037318.D
 Acq On : 18 Jun 2025 17:07
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 18 18:34:11 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:27:59 2025
 Response via : Initial Calibration

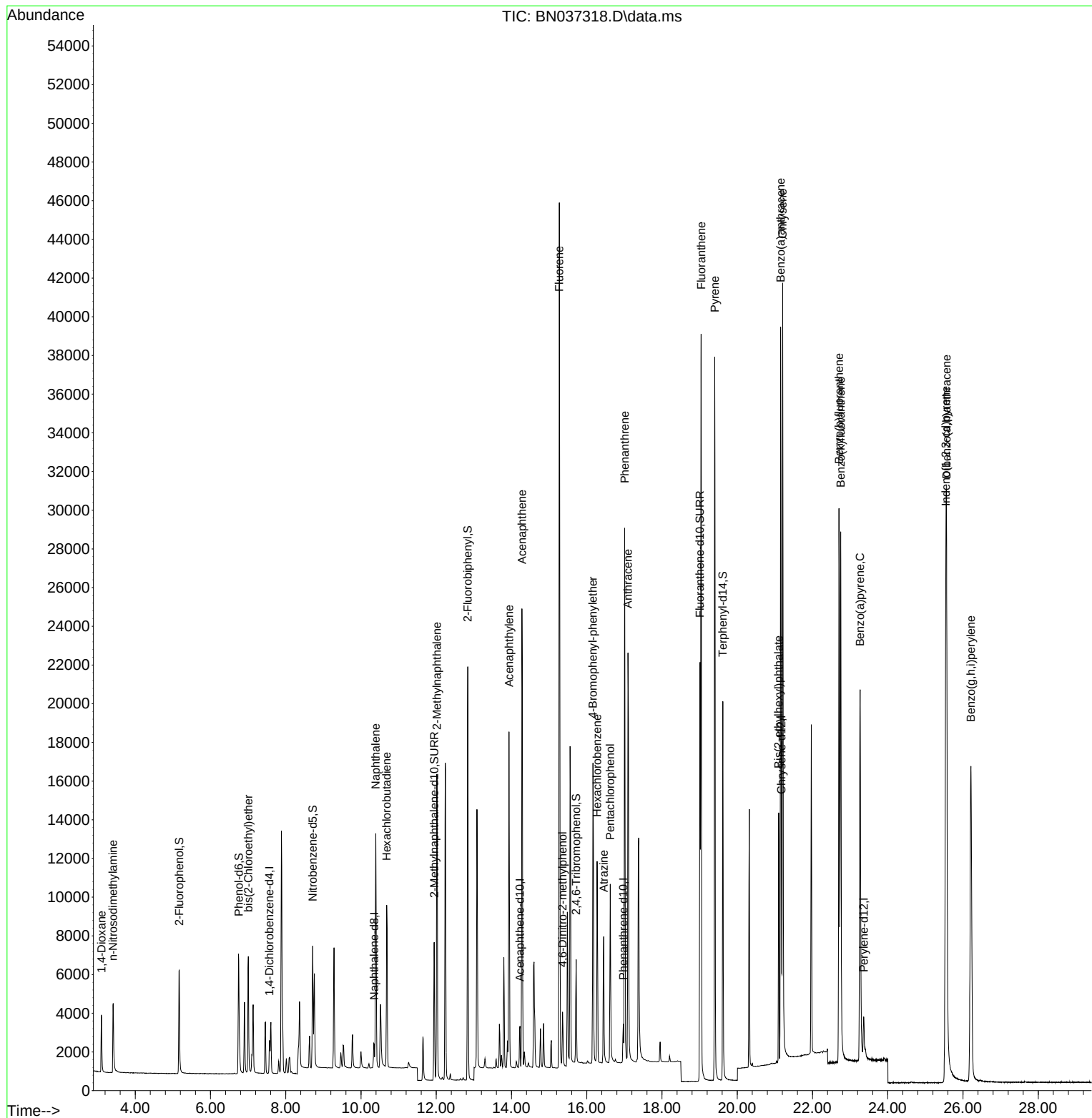
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	837	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1789	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1279	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2788	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	2870	0.400	ng	# 0.00
35) Perylene-d12	23.363	264	2842	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	4753	3.125	ng	0.00
5) Phenol-d6	6.752	99	5433	3.633	ng	0.00
8) Nitrobenzene-d5	8.717	82	5180	3.526	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	9579	3.293	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	3006	3.275	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	18775	3.350	ng	0.00
27) Fluoranthene-d10	19.008	212	27524	3.114	ng	0.00
31) Terphenyl-d14	19.616	244	21682	3.292	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	2136	2.859	ng	93
3) n-Nitrosodimethylamine	3.408	42	2622	3.028	ng	# 99
6) bis(2-Chloroethyl)ether	7.004	93	4637	3.622	ng	98
9) Naphthalene	10.394	128	14711	3.178	ng	# 87
10) Hexachlorobutadiene	10.682	225	6888	2.941	ng	# 99
12) 2-Methylnaphthalene	12.016	142	11040	3.386	ng	96
16) Acenaphthylene	13.935	152	17686	3.287	ng	99
17) Acenaphthene	14.277	154	11598	3.246	ng	97
18) Fluorene	15.271	166	16868	3.331	ng	98
20) 4,6-Dinitro-2-methylph...	15.357	198	3106	3.714	ng	# 47
21) 4-Bromophenyl-phenylether	16.164	248	7604	3.288	ng	# 85
22) Hexachlorobenzene	16.276	284	7227	2.982	ng	97
23) Atrazine	16.450	200	5984	3.309	ng	# 80
24) Pentachlorophenol	16.624	266	4441	3.309	ng	96
25) Phenanthrene	17.009	178	25984	3.310	ng	99
26) Anthracene	17.095	178	25453	3.457	ng	98
28) Fluoranthene	19.040	202	35014	3.211	ng	100
30) Pyrene	19.402	202	34855	3.189	ng	100
32) Benzo(a)anthracene	21.153	228	32037	3.466	ng	96
33) Chrysene	21.206	228	35074	2.973	ng	97
34) Bis(2-ethylhexyl)phtha...	21.099	149	11522	3.041	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.544	276	43037	3.601	ng	# 93
37) Benzo(b)fluoranthene	22.705	252	34074	3.433	ng	# 83
38) Benzo(k)fluoranthene	22.749	252	36081	3.309	ng	# 83
39) Benzo(a)pyrene	23.263	252	30925	3.364	ng	# 76
40) Dibenzo(a,h)anthracene	25.561	278	34195	3.595	ng	# 72
41) Benzo(g,h,i)perylene	26.210	276	36941	3.371	ng	# 92

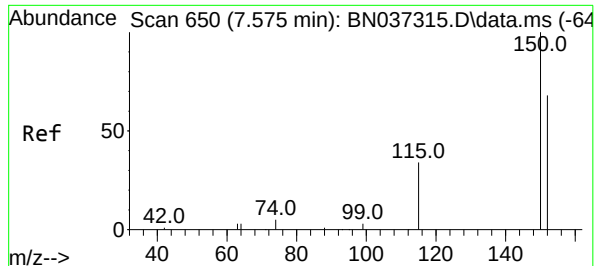
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037318.D
Acq On : 18 Jun 2025 17:07
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 18 18:34:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration

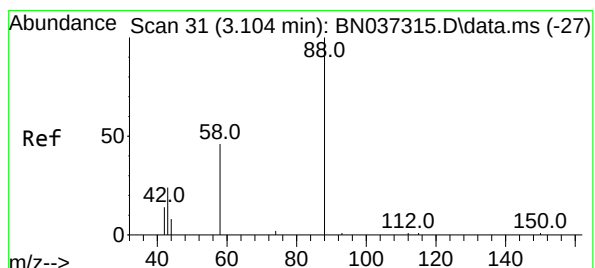
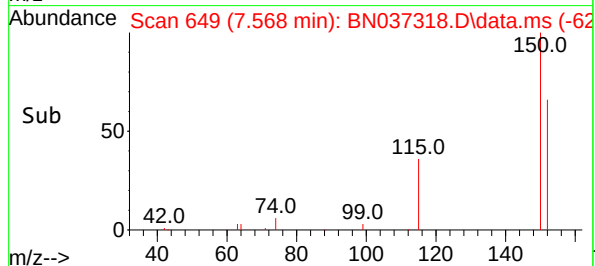
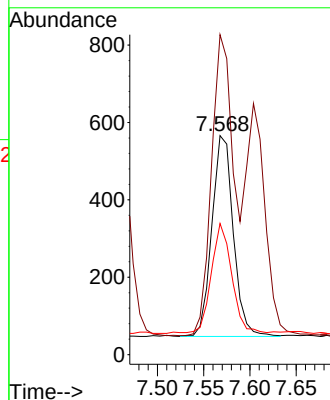
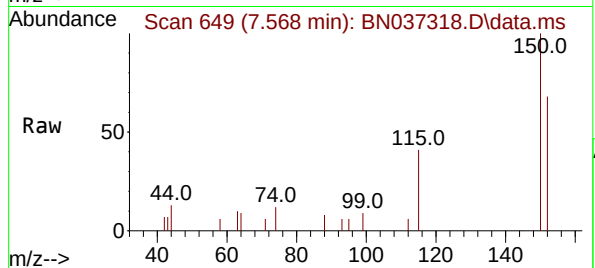




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.007 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

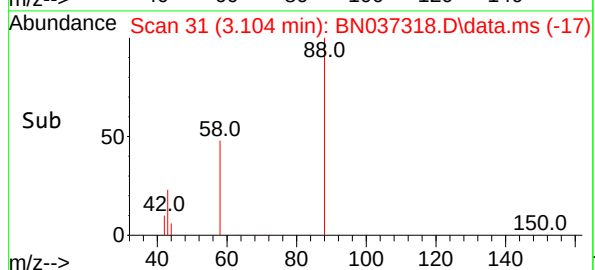
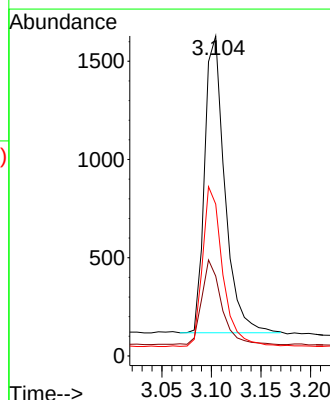
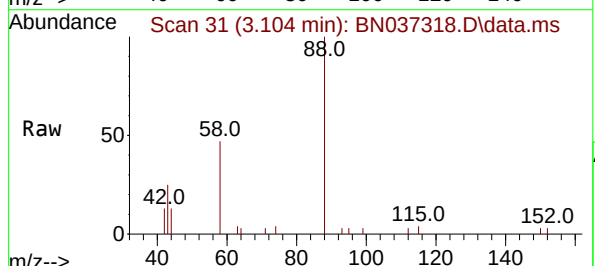
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

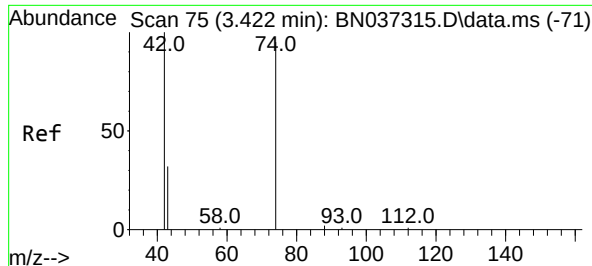
Tgt Ion:152 Resp: 837
Ion Ratio Lower Upper
152 100
150 146.1 112.7 169.1
115 59.9 45.9 68.9



#2
1,4-Dioxane
Concen: 2.859 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion: 88 Resp: 2136
Ion Ratio Lower Upper
88 100
43 27.9 21.0 31.6
58 53.9 38.0 57.0

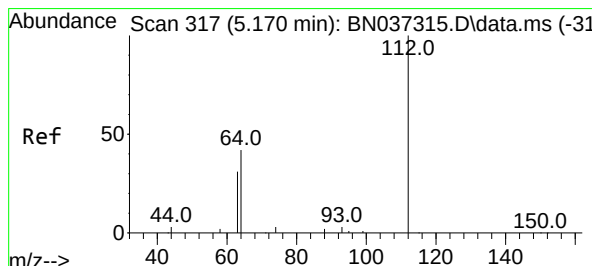
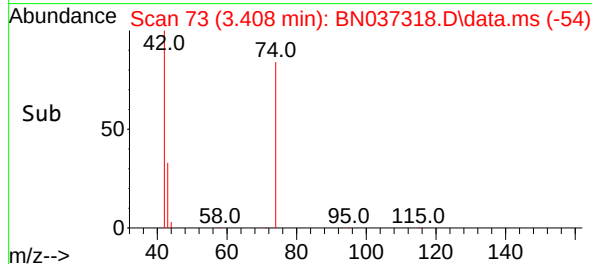
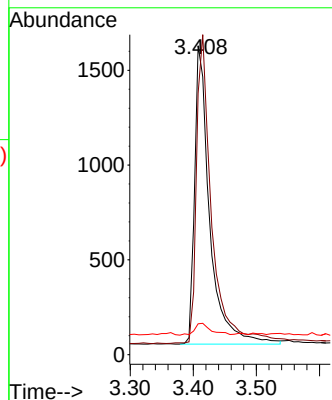
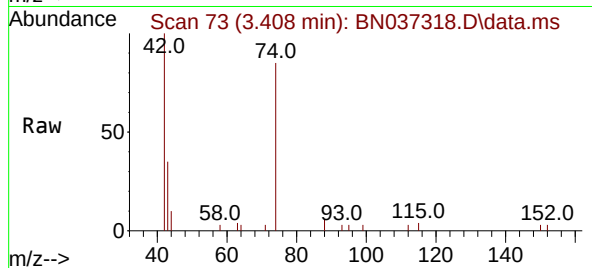




#3
n-Nitrosodimethylamine
Concen: 3.028 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

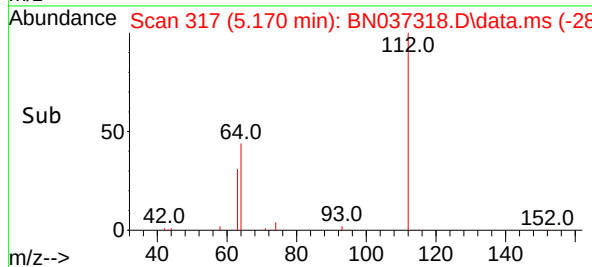
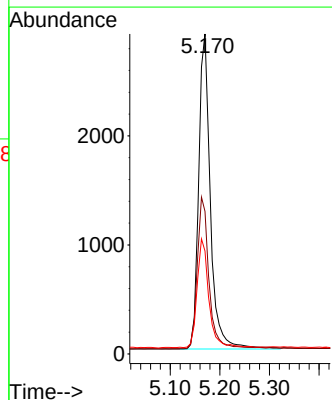
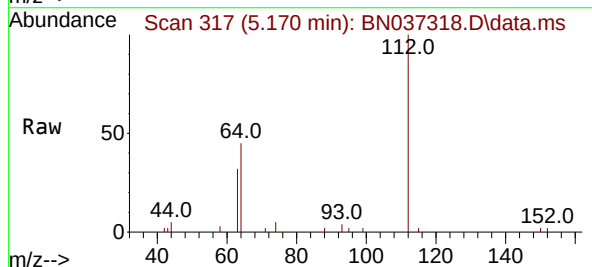
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

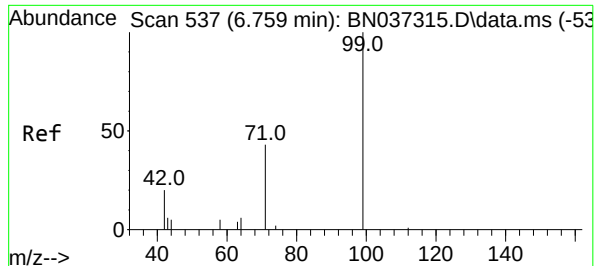
Tgt Ion: 42 Resp: 2622
Ion Ratio Lower Upper
42 100
74 104.5 84.3 126.5
44 4.3 5.0 7.4#



#4
2-Fluorophenol
Concen: 3.125 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion: 112 Resp: 4753
Ion Ratio Lower Upper
112 100
64 48.3 38.7 58.1
63 34.4 26.4 39.6

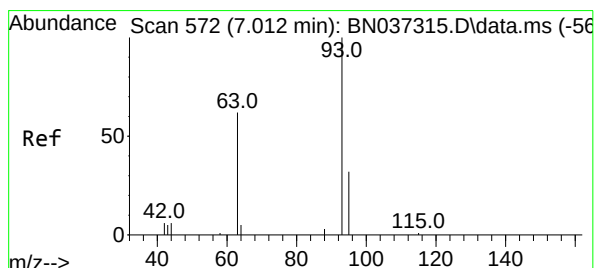
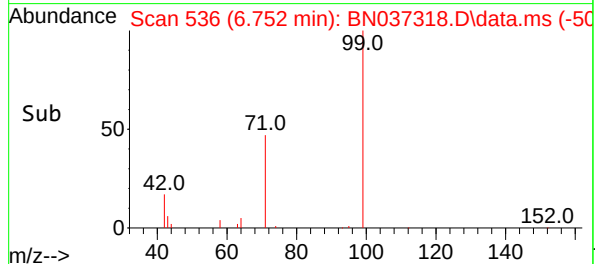
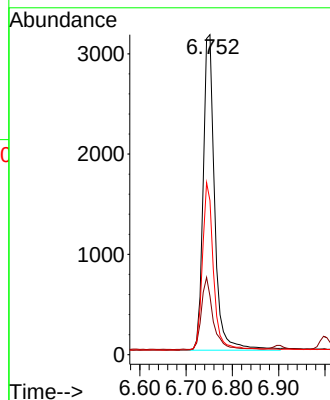
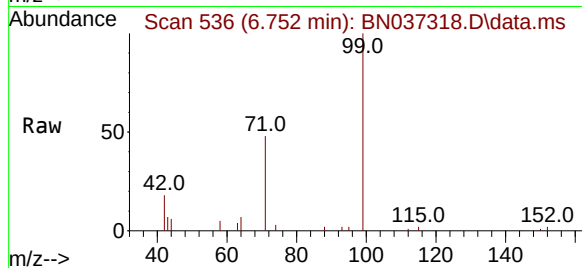




#5
Phenol-d6
Concen: 3.633 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

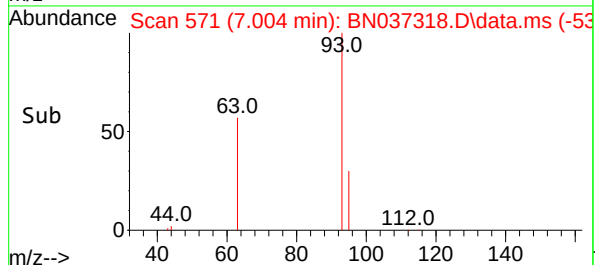
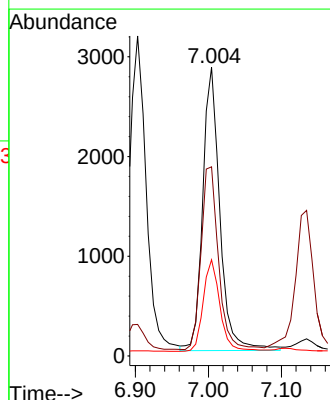
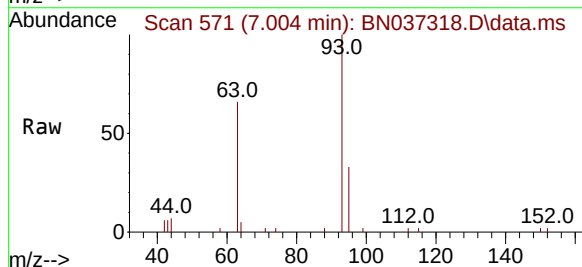
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

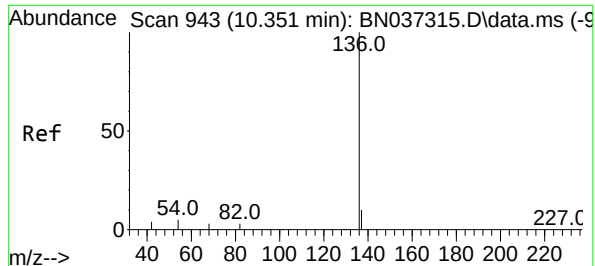
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.5	19.8	29.8
71	51.7	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 3.622 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion	Ratio	Lower	Upper
93	100		
63	65.5	53.2	79.8
95	31.4	27.3	40.9

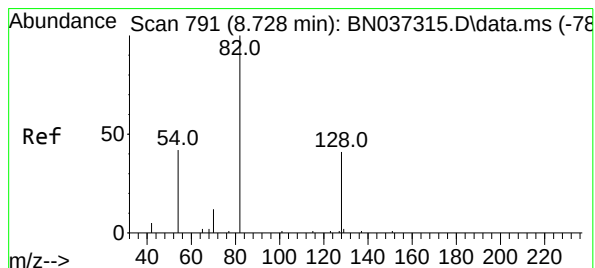
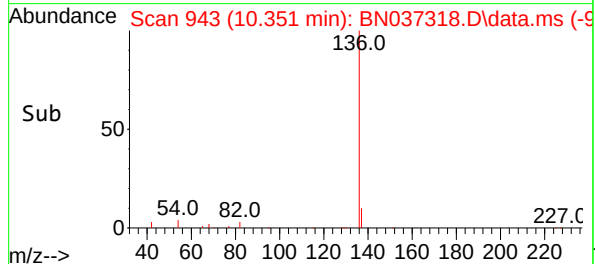
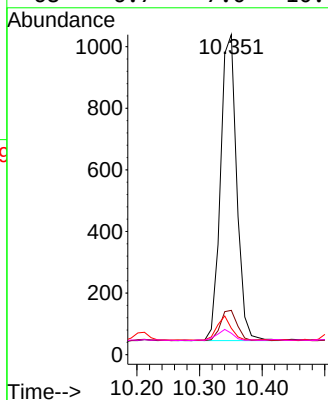
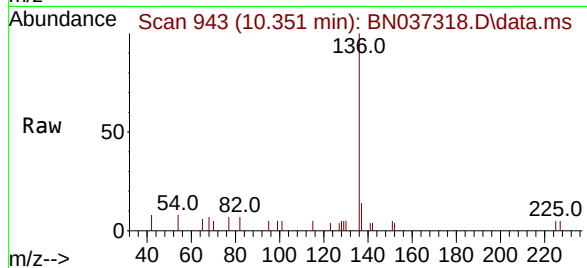




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

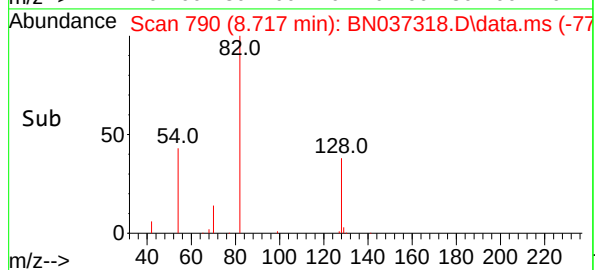
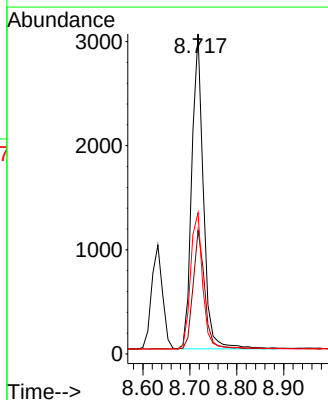
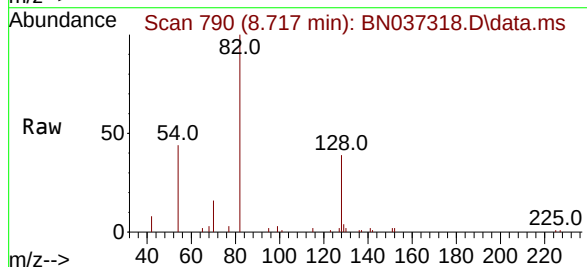
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

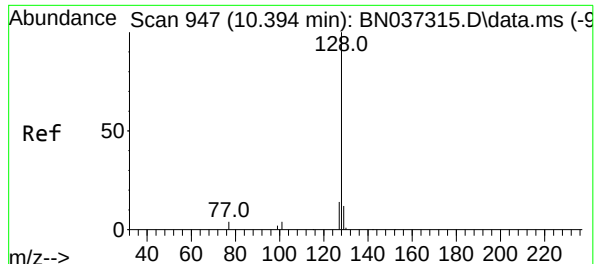
Tgt Ion:	136	Resp:	1789
Ion	Ratio	Lower	Upper
136	100		
137	13.9	12.2	18.2
54	8.3	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 3.526 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion:	82	Resp:	5180
Ion	Ratio	Lower	Upper
82	100		
128	38.7	42.5	63.7#
54	44.2	43.2	64.8

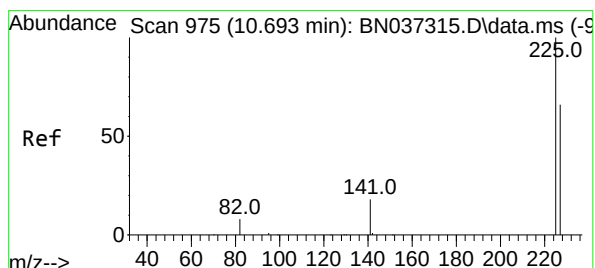
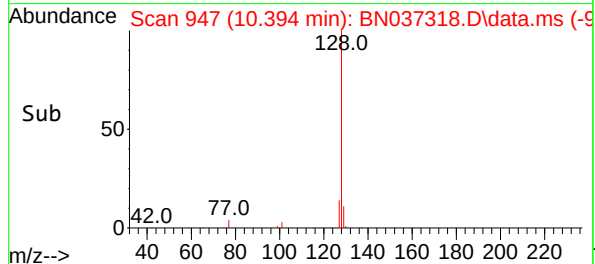
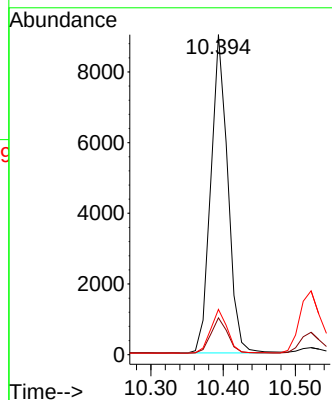
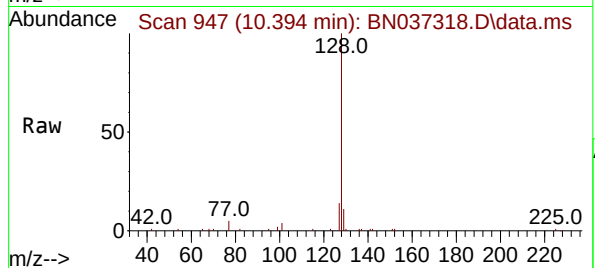




#9
Naphthalene
Concen: 3.178 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

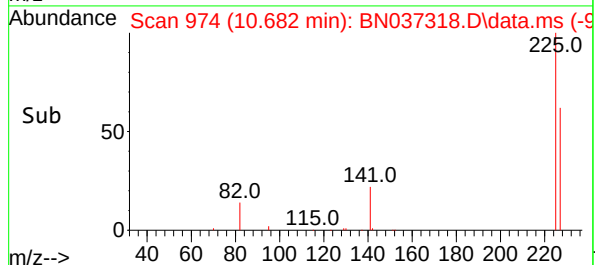
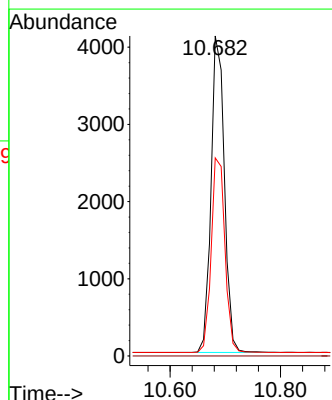
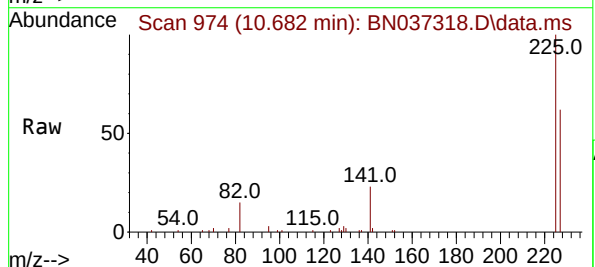
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

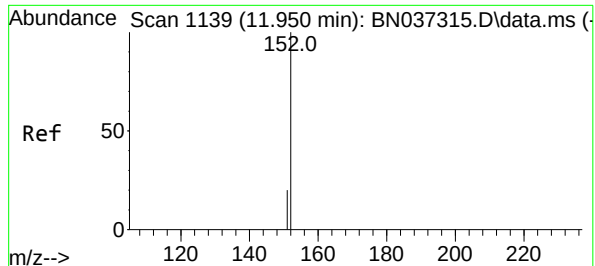
Tgt Ion:128 Resp: 14711
Ion Ratio Lower Upper
128 100
129 11.5 14.0 21.0#
127 14.2 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 2.941 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion:225 Resp: 6888
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.3 75.5

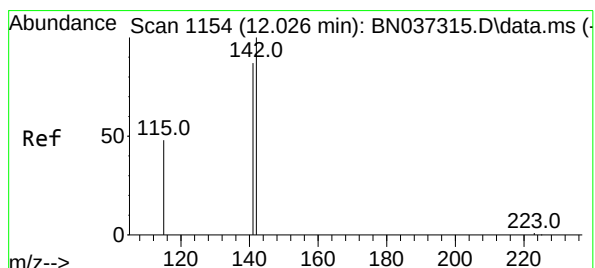
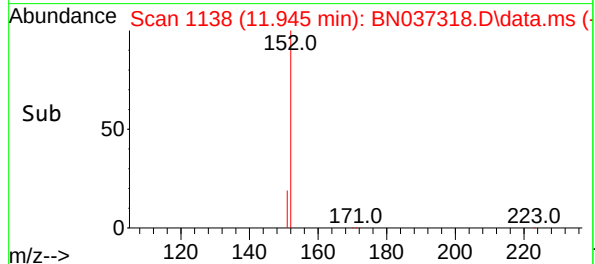
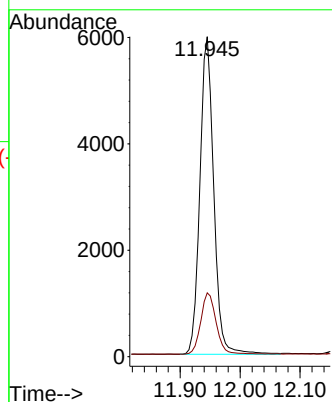
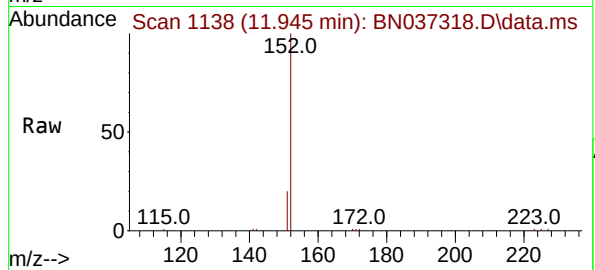




#11
2-Methylnaphthalene-d10
Concen: 3.293 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

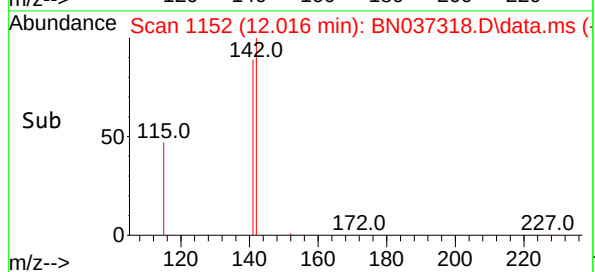
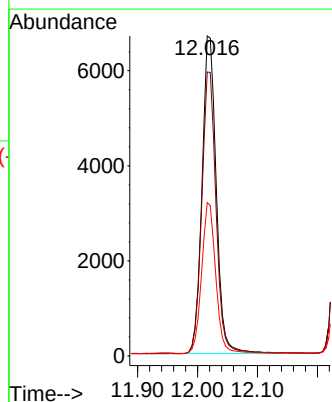
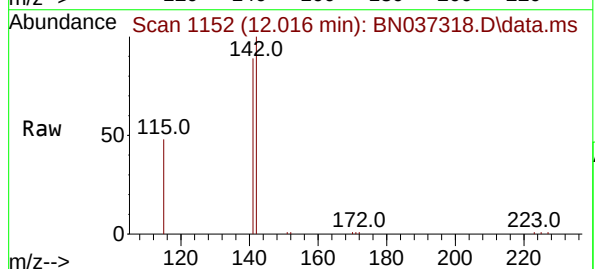
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

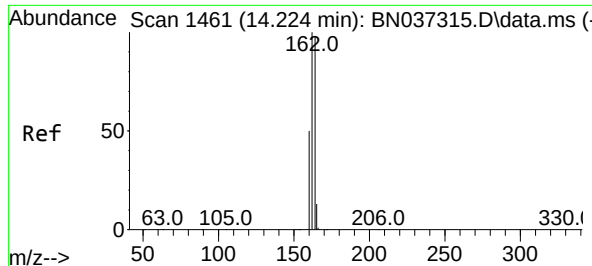
Tgt Ion:152 Resp: 9579
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.0



#12
2-Methylnaphthalene
Concen: 3.386 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.010 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion:142 Resp: 11040
Ion Ratio Lower Upper
142 100
141 88.8 70.2 105.2
115 47.9 43.0 64.4

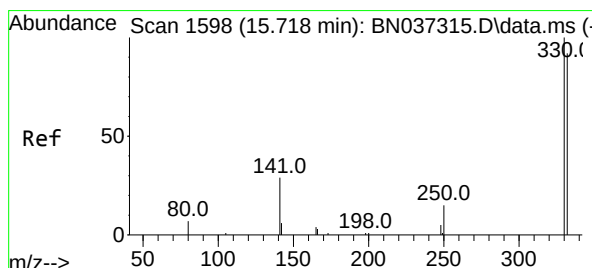
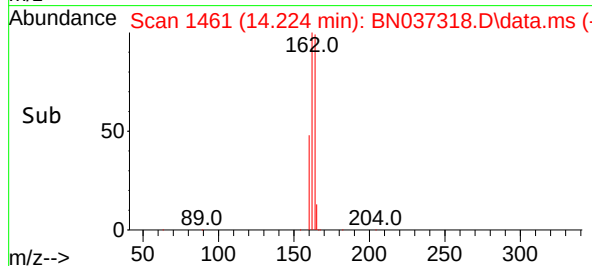
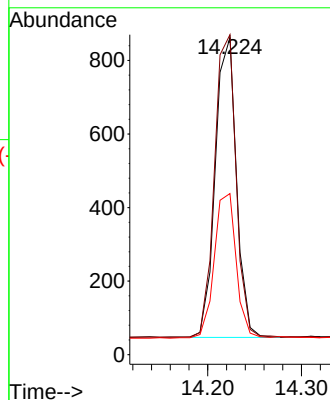
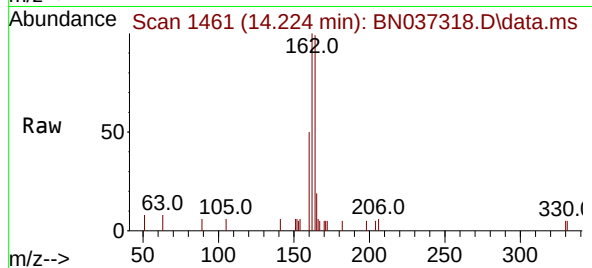




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

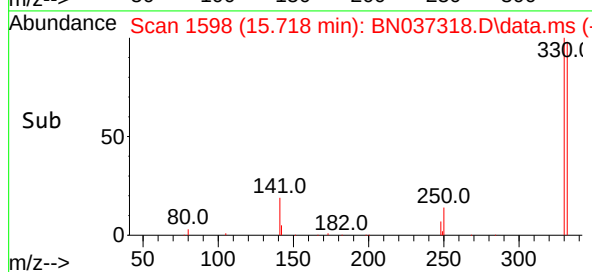
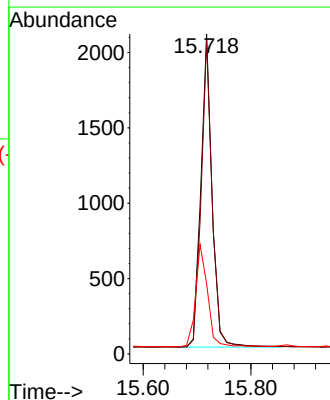
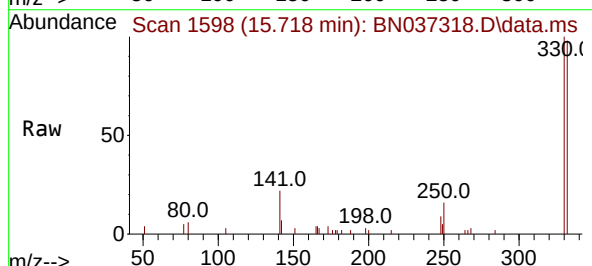
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

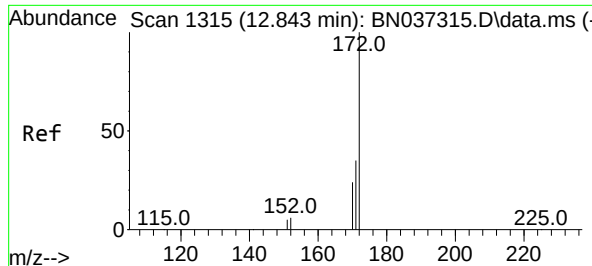
Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.5	122.3
160	50.8	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 3.275 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.4	117.6
141	34.4	24.4	36.6

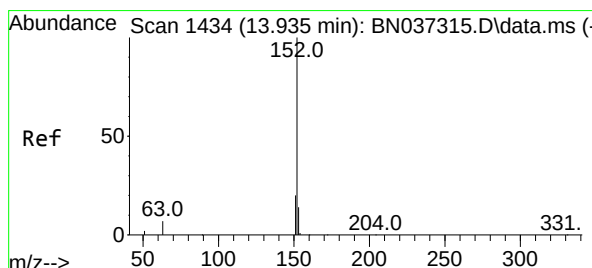
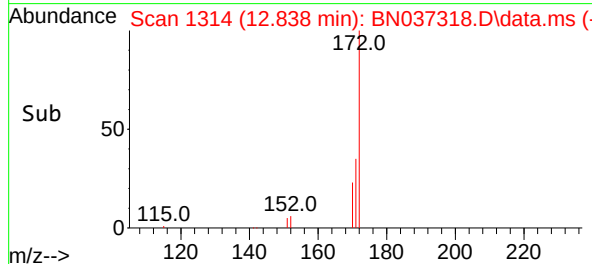
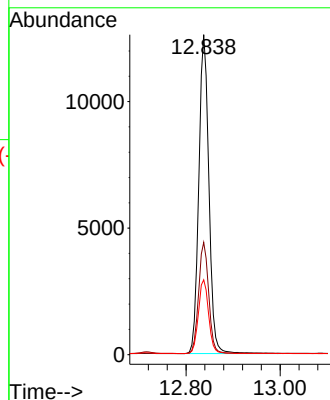
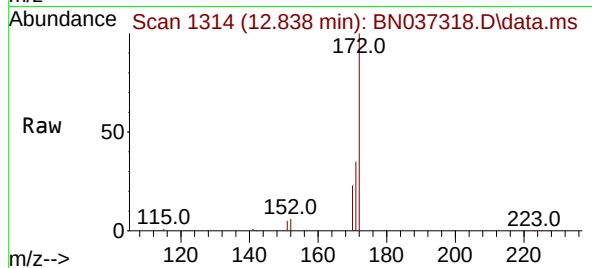




#15
2-Fluorobiphenyl
Concen: 3.350 ng
RT: 12.838 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

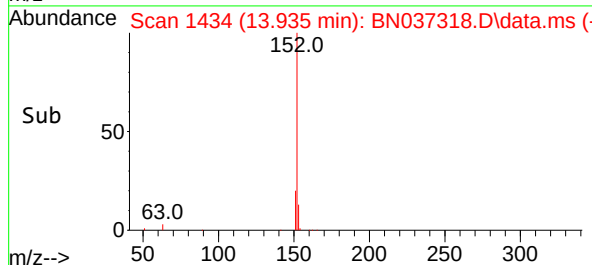
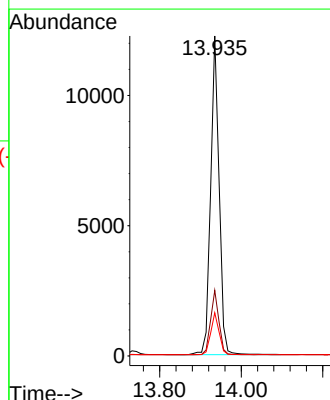
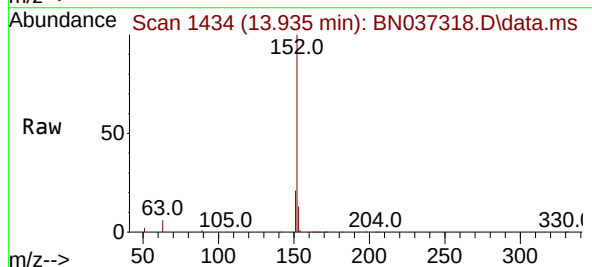
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

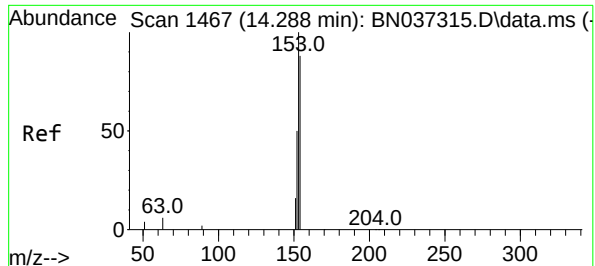
Tgt Ion:	172	Resp:	18775
Ion	Ratio	Lower	Upper
172	100		
171	35.1	30.8	46.2
170	23.4	21.9	32.9



#16
Acenaphthylene
Concen: 3.287 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion:	152	Resp:	17686
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.6	24.8
153	13.1	10.2	15.2





#17

Acenaphthene

Concen: 3.246 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.011 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

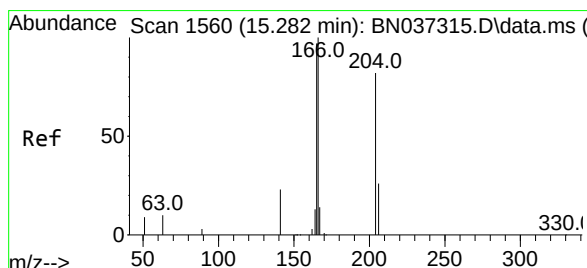
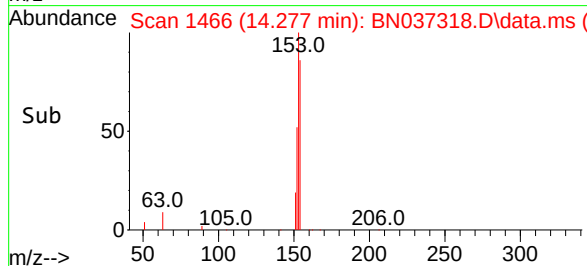
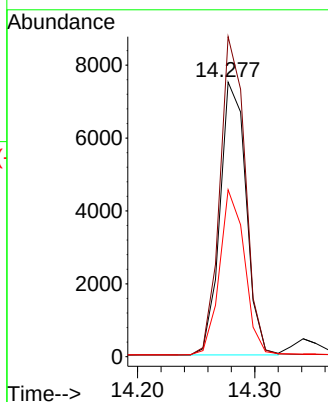
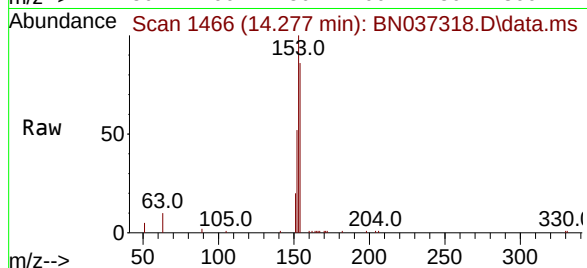
Tgt Ion:154 Resp: 11598

Ion Ratio Lower Upper

154 100

153 113.6 93.1 139.7

152 58.2 48.6 73.0



#18

Fluorene

Concen: 3.331 ng

RT: 15.271 min Scan# 1559

Delta R.T. -0.011 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

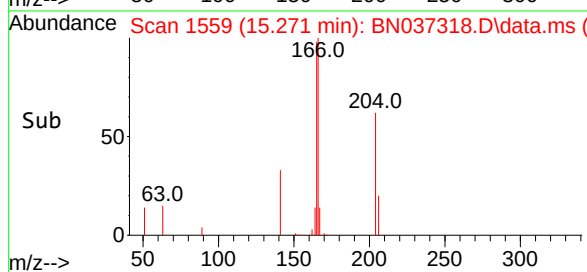
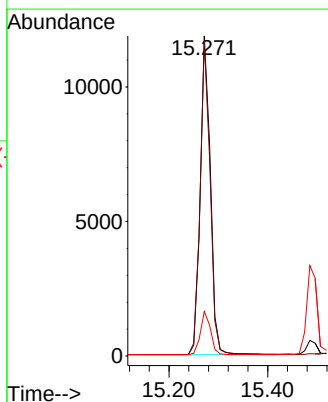
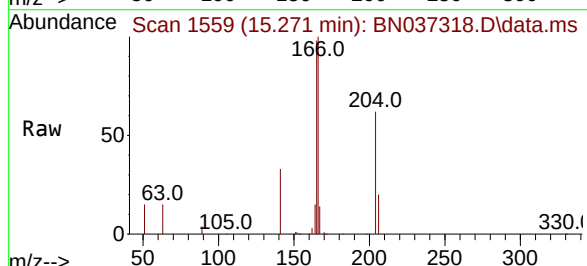
Tgt Ion:166 Resp: 16868

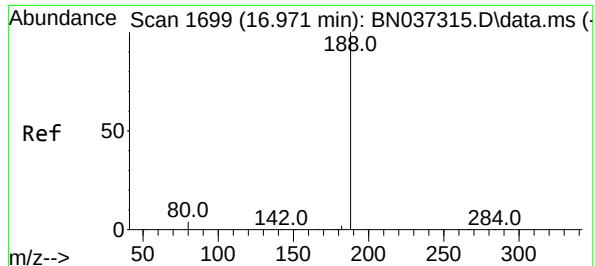
Ion Ratio Lower Upper

166 100

165 97.4 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: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

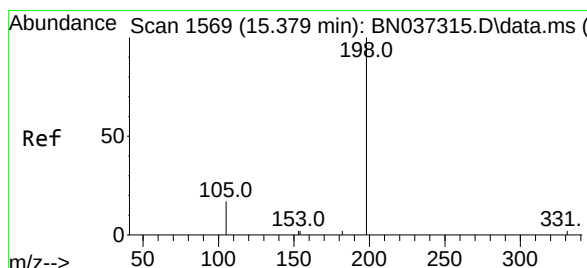
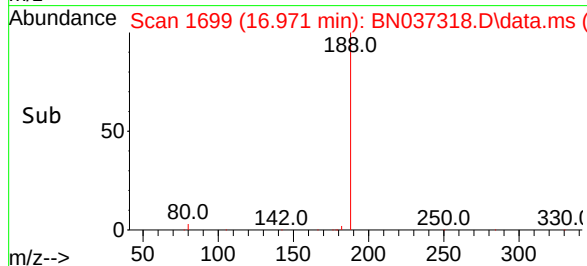
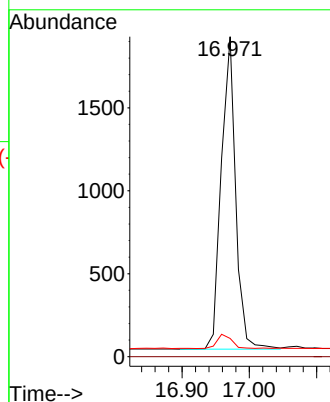
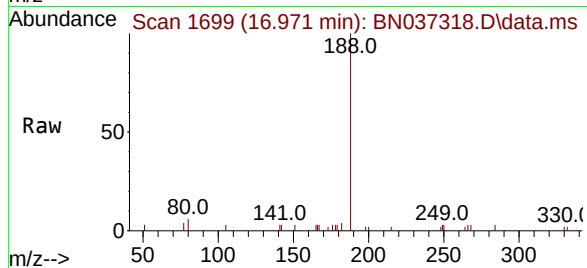
Tgt Ion:188 Resp: 2788

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: 3.714 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.022 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

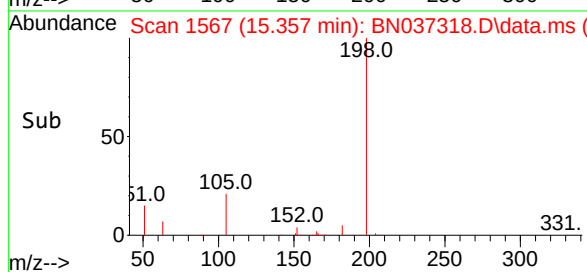
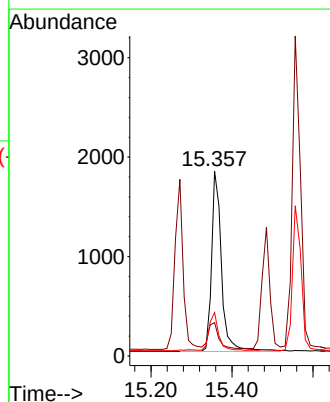
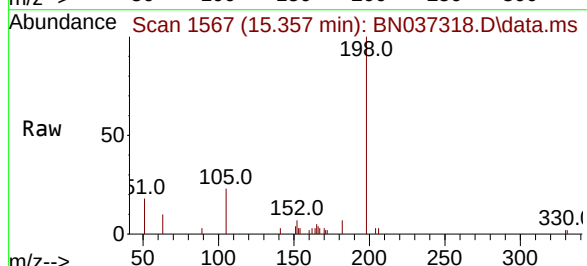
Tgt Ion:198 Resp: 3106

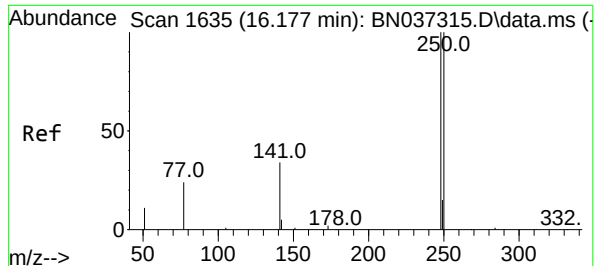
Ion Ratio Lower Upper

198 100

51 18.0 51.4 77.0#

105 23.5 45.5 68.3#

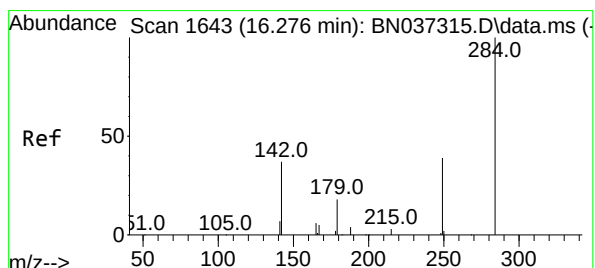
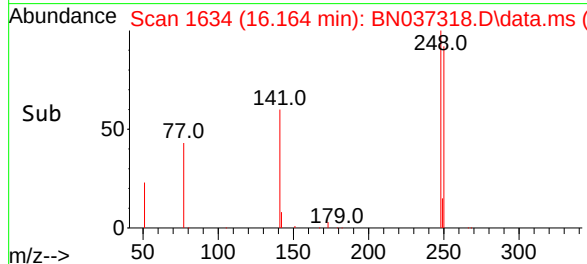
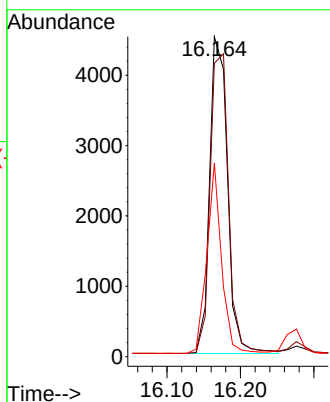
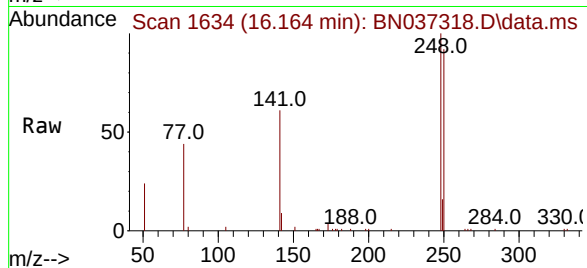




#21
4-Bromophenyl-phenylether
Concen: 3.288 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.013 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

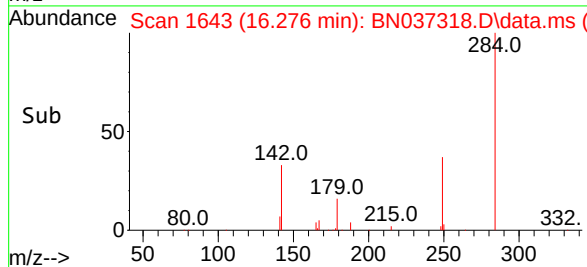
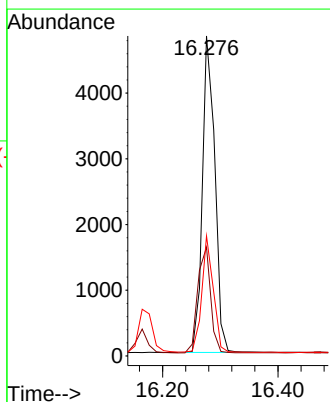
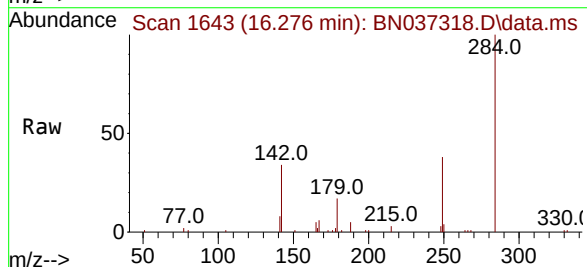
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

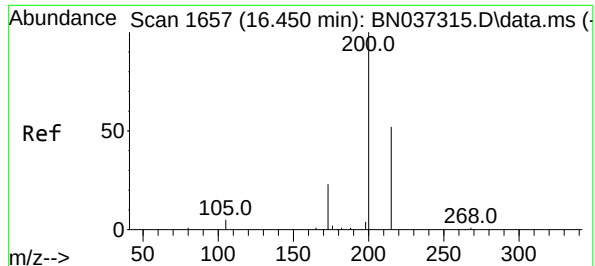
Tgt Ion:248 Resp: 7604
Ion Ratio Lower Upper
248 100
250 91.7 80.4 120.6
141 60.6 33.3 49.9#



#22
Hexachlorobenzene
Concen: 2.982 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion:284 Resp: 7227
Ion Ratio Lower Upper
284 100
142 34.8 27.0 40.6
249 34.0 28.8 43.2

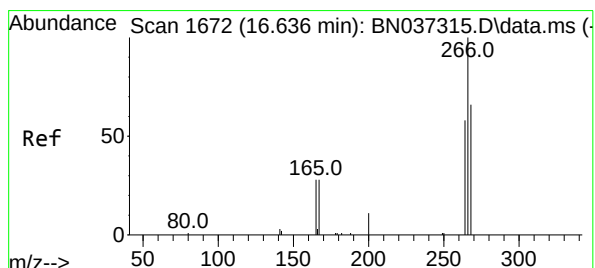
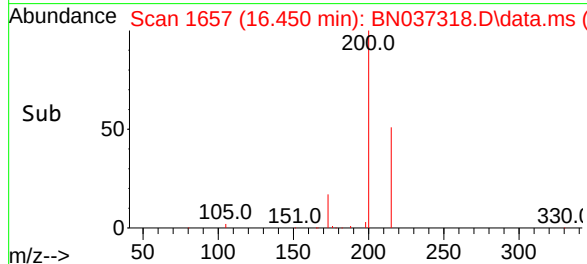
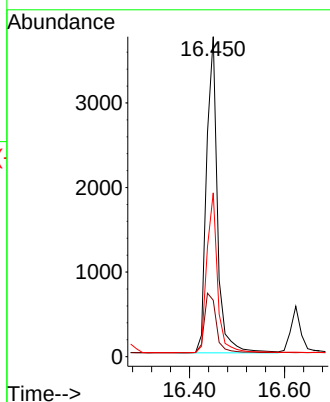
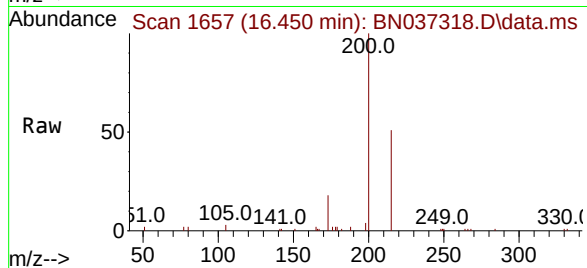




#23
Atrazine
Concen: 3.309 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

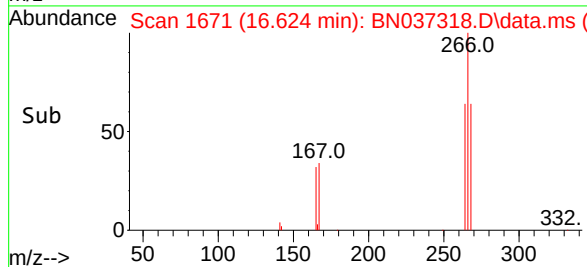
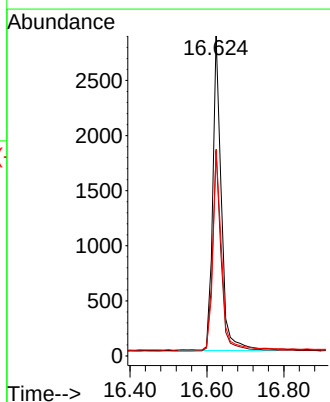
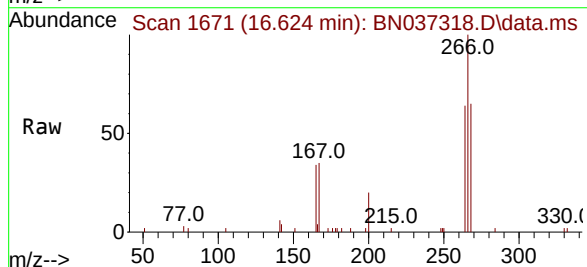
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

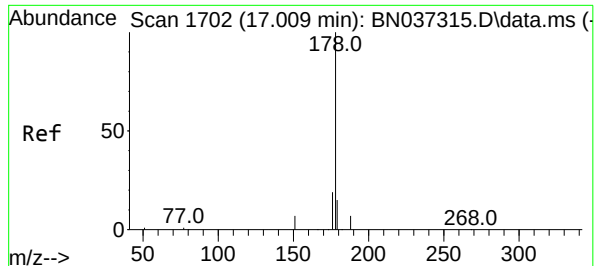
Tgt Ion:200 Resp: 5984
Ion Ratio Lower Upper
200 100
173 17.7 29.2 43.8#
215 51.2 48.8 73.2



#24
Pentachlorophenol
Concen: 3.309 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.013 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion:266 Resp: 4441
Ion Ratio Lower Upper
266 100
264 63.0 50.3 75.5
268 63.3 55.3 82.9

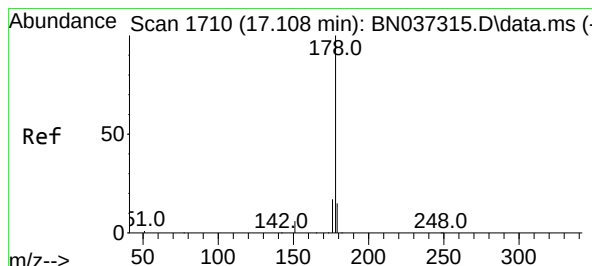
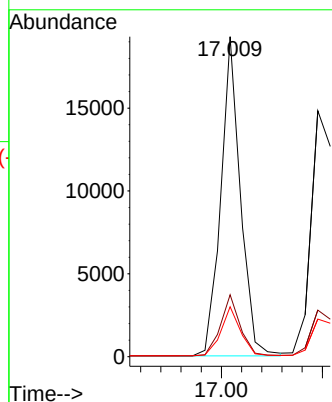
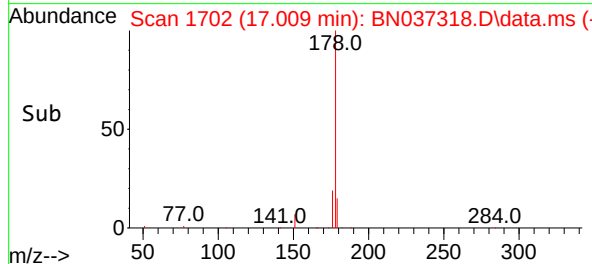
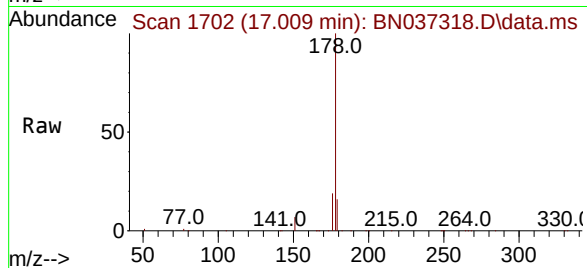




#25
Phenanthrene
Concen: 3.310 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

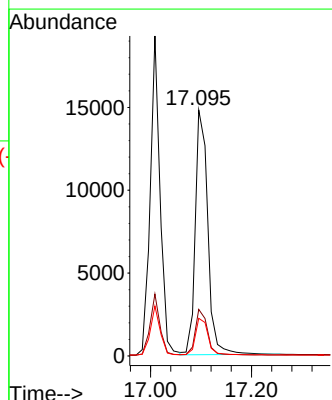
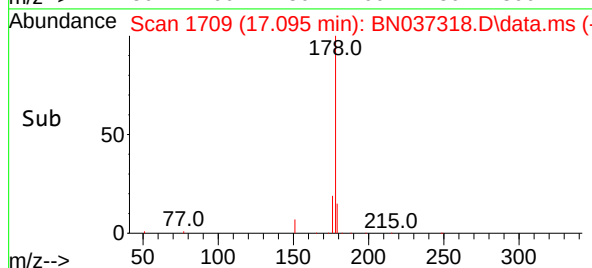
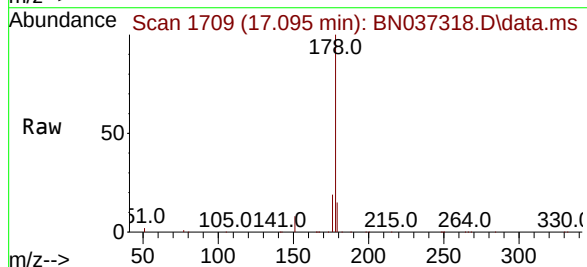
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

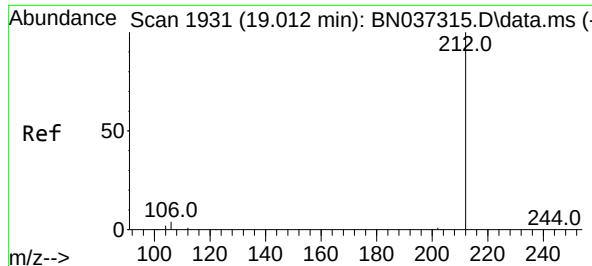
Tgt Ion:178 Resp: 25984
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.5 12.9 19.3



#26
Anthracene
Concen: 3.457 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.013 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion:178 Resp: 25453
Ion Ratio Lower Upper
178 100
176 18.2 14.7 22.1
179 15.2 13.0 19.6





#27

Fluoranthene-d10

Concen: 3.114 ng

RT: 19.008 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

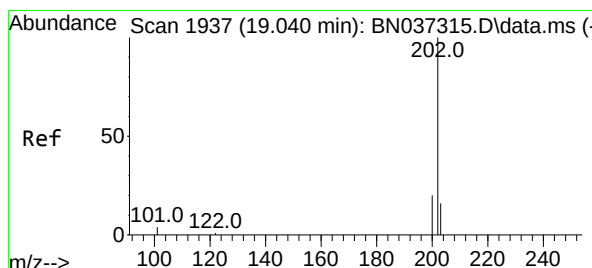
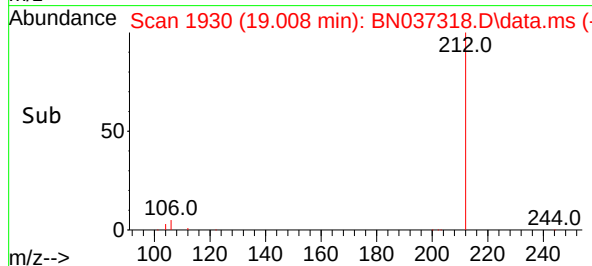
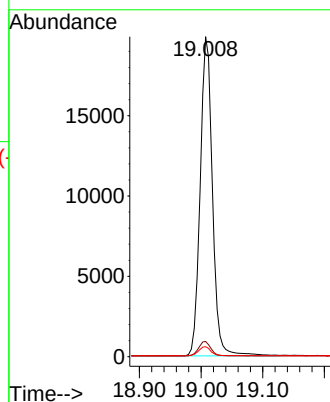
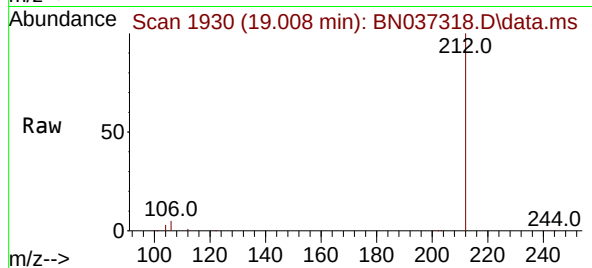
Tgt Ion:212 Resp: 27524

Ion Ratio Lower Upper

212 100

106 4.6 3.0 4.4#

104 2.9 2.0 3.0



#28

Fluoranthene

Concen: 3.211 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.000 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

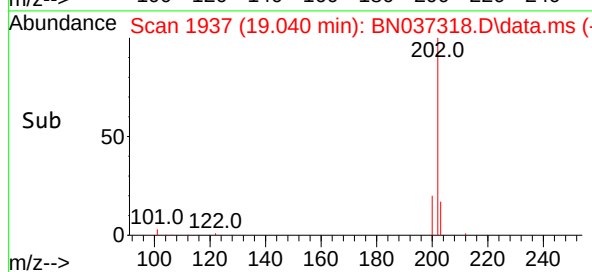
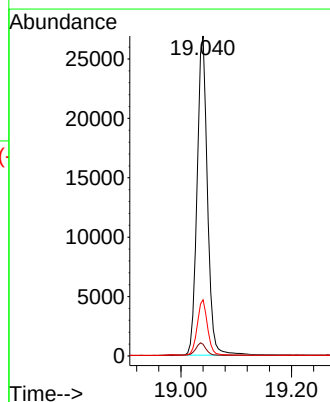
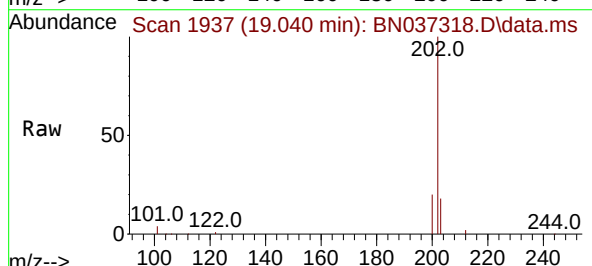
Tgt Ion:202 Resp: 35014

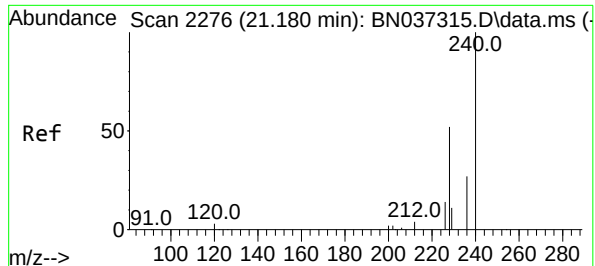
Ion Ratio Lower Upper

202 100

101 4.0 3.0 4.6

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

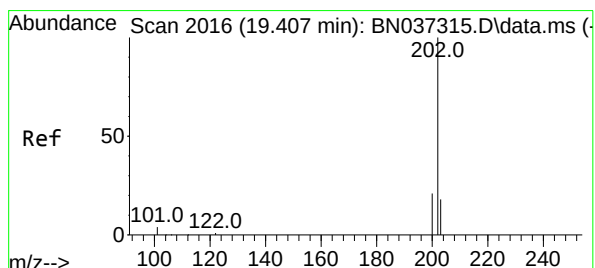
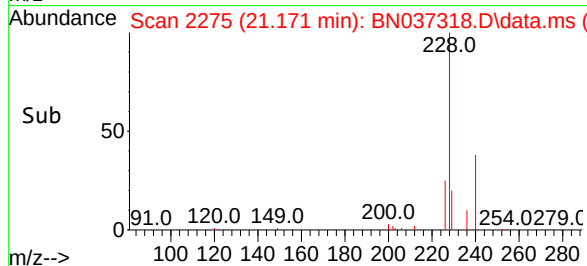
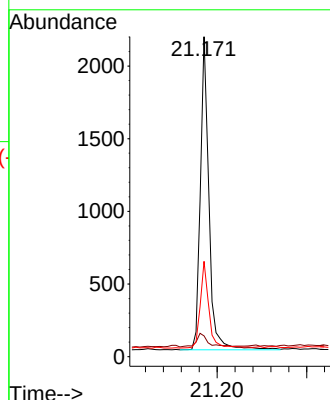
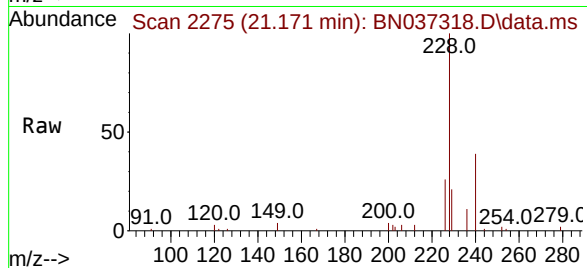
Tgt Ion:240 Resp: 2870

Ion Ratio Lower Upper

240 100

120 6.5 7.5 11.3#

236 29.8 24.9 37.3



#30

Pyrene

Concen: 3.189 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.005 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

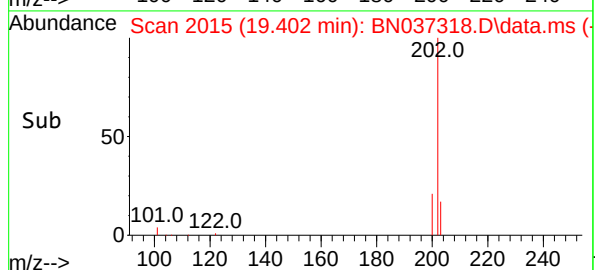
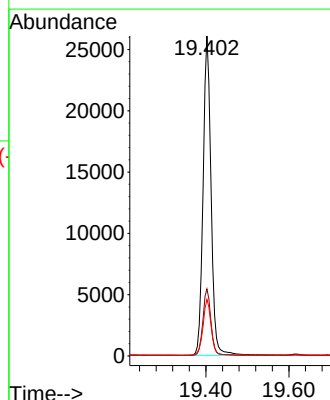
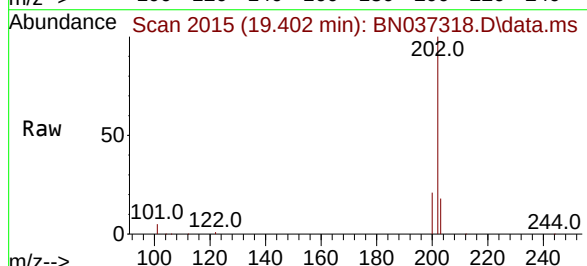
Tgt Ion:202 Resp: 34855

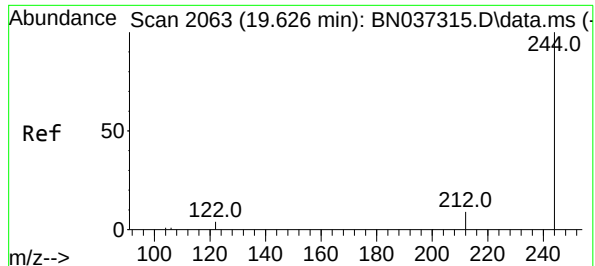
Ion Ratio Lower Upper

202 100

200 20.9 16.8 25.2

203 17.9 14.5 21.7





#31

Terphenyl-d14

Concen: 3.292 ng

RT: 19.616 min Scan# 2061

Delta R.T. -0.009 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

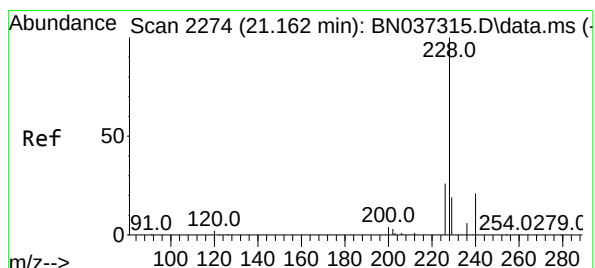
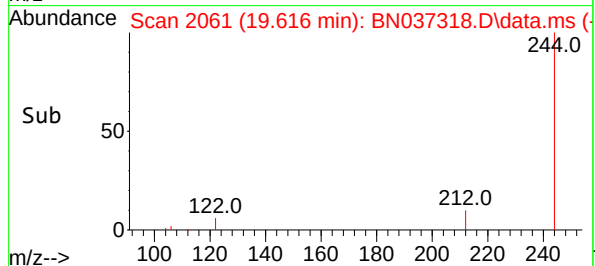
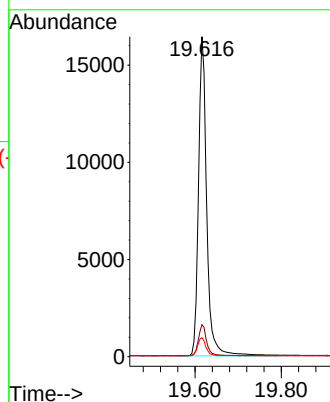
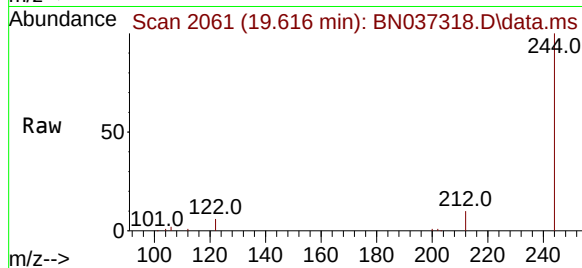
Tgt Ion:244 Resp: 21682

Ion Ratio Lower Upper

244 100

212 10.0 11.1 16.7#

122 6.0 7.2 10.8#



#32

Benzo(a)anthracene

Concen: 3.466 ng

RT: 21.153 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

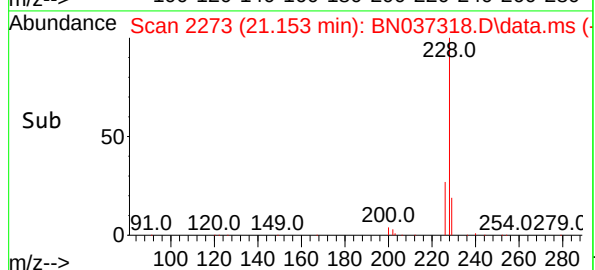
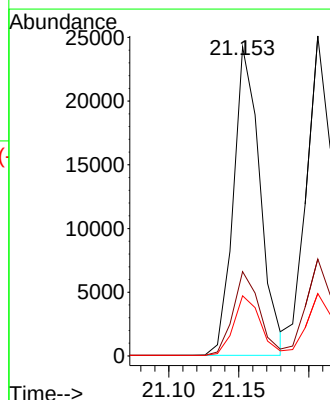
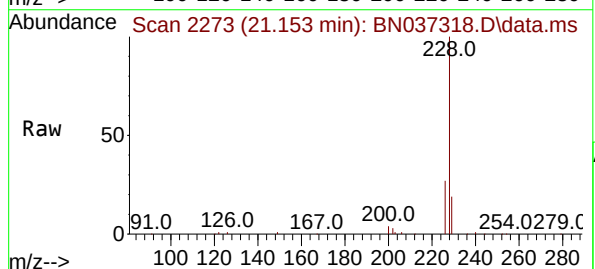
Tgt Ion:228 Resp: 32037

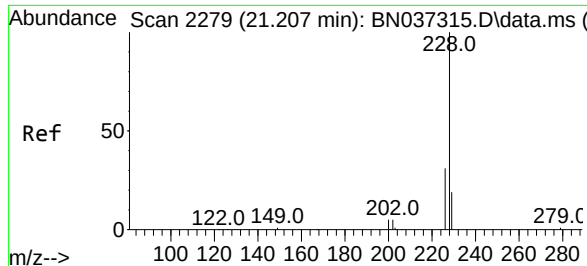
Ion Ratio Lower Upper

228 100

226 27.3 23.0 34.4

229 19.5 17.4 26.0

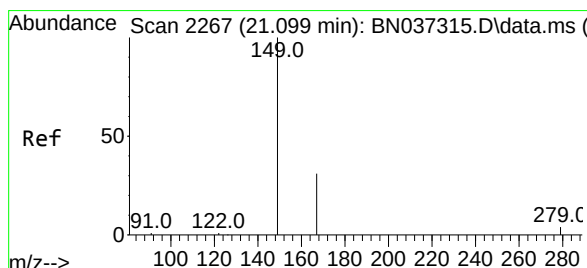
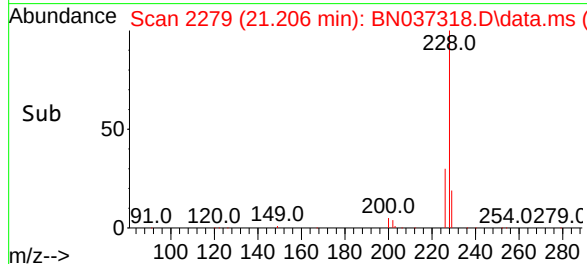
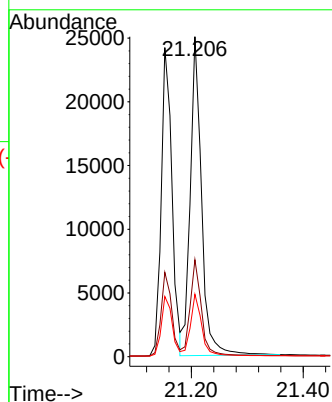
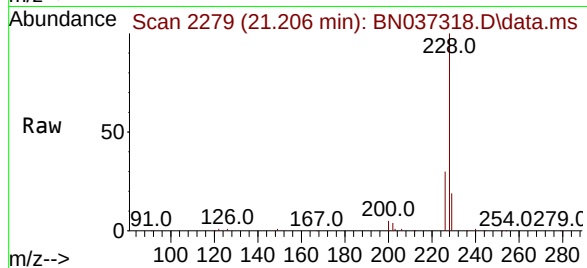




#33
Chrysene
Concen: 2.973 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

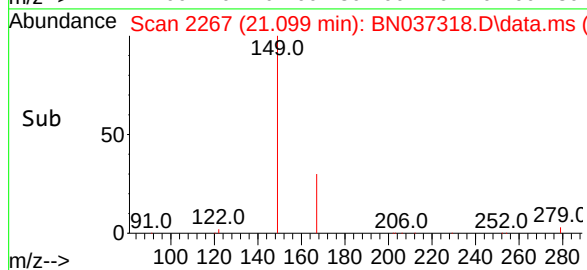
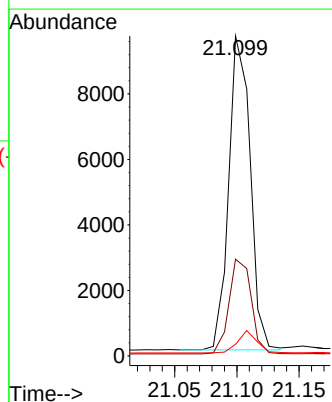
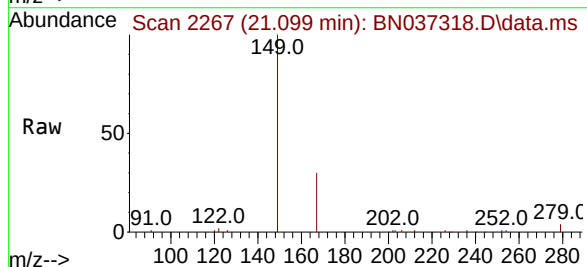
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

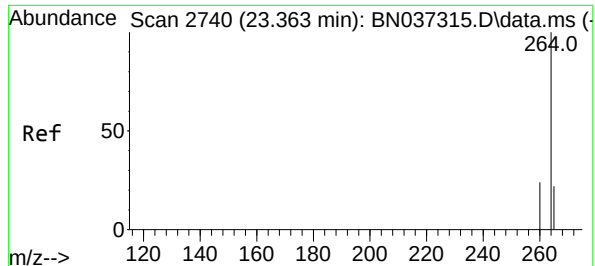
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.4	38.2
229	19.5	17.3	25.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 3.041 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037318.D
Acq: 18 Jun 2025 17:07

Tgt Ion	Ratio	Lower	Upper
149	100		
167	31.2	24.6	37.0
279	6.4	6.5	9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.363 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

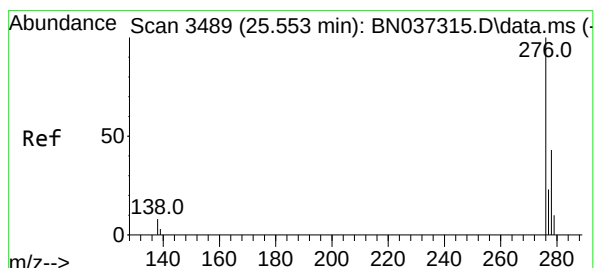
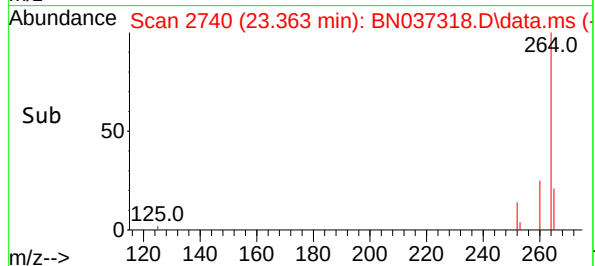
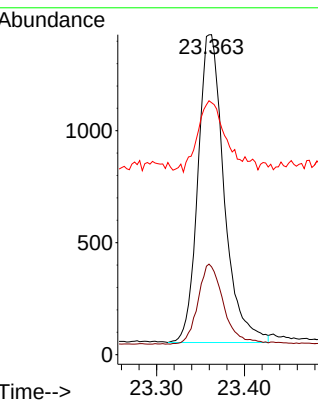
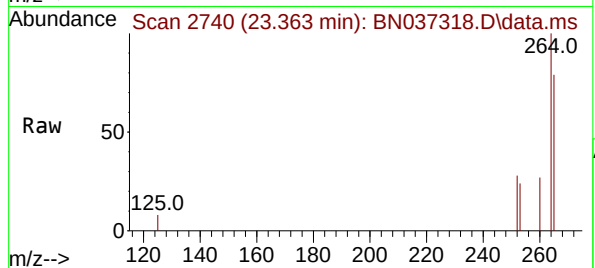
Tgt Ion:264 Resp: 2842

Ion Ratio Lower Upper

264 100

260 27.4 21.4 32.2

265 78.7 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.601 ng

RT: 25.544 min Scan# 3486

Delta R.T. -0.009 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

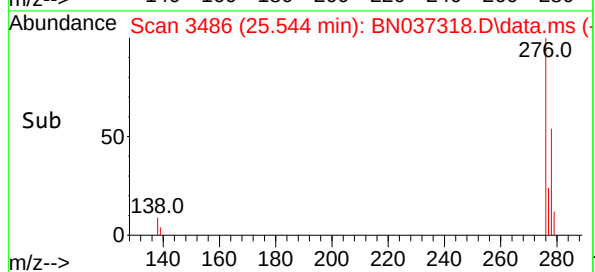
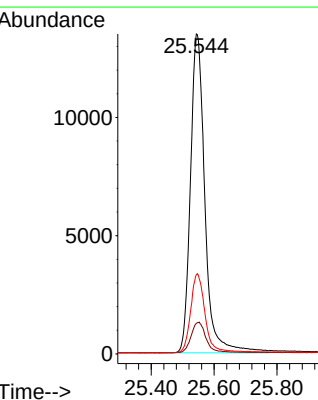
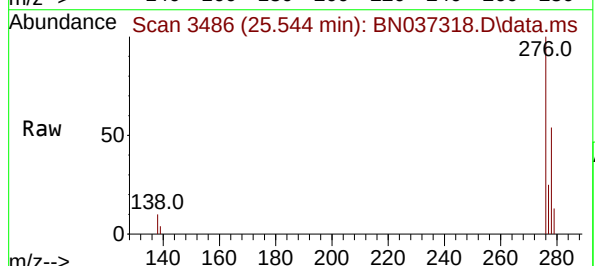
Tgt Ion:276 Resp: 43037

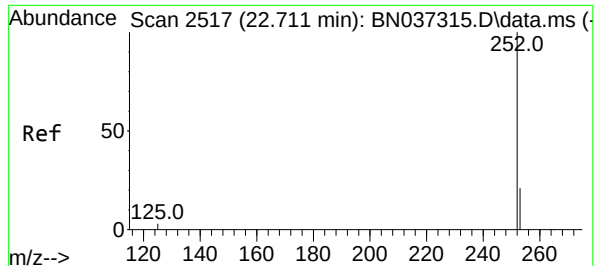
Ion Ratio Lower Upper

276 100

138 9.6 2.2 3.2#

277 24.1 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 3.433 ng

RT: 22.705 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

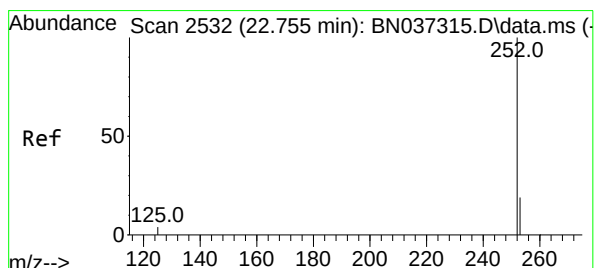
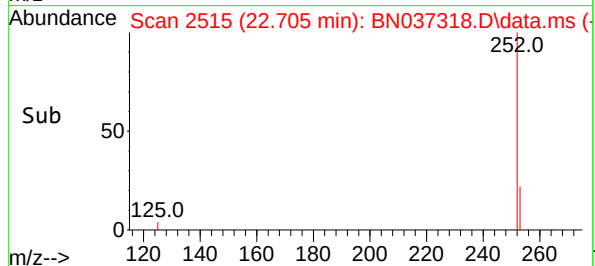
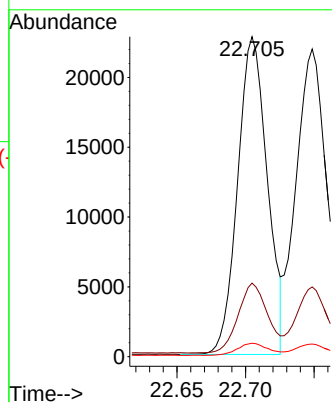
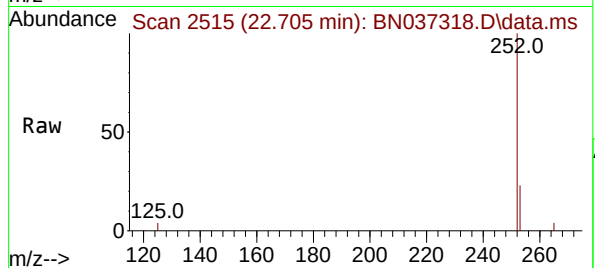
Tgt Ion:252 Resp: 34074

Ion Ratio Lower Upper

252 100

253 23.0 26.6 40.0#

125 4.2 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 3.309 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

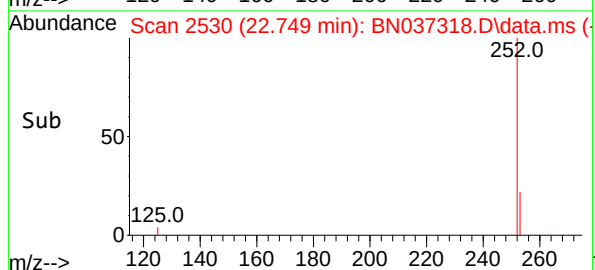
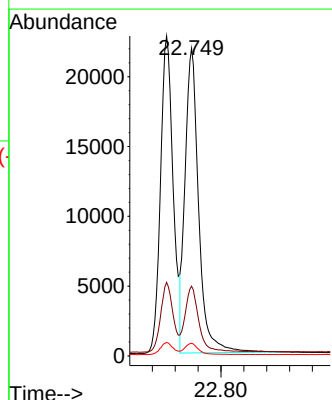
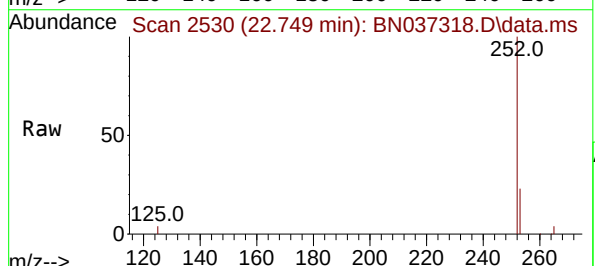
Tgt Ion:252 Resp: 36081

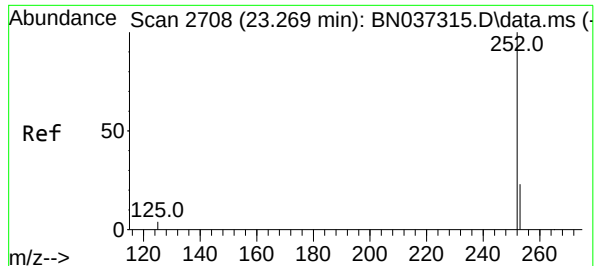
Ion Ratio Lower Upper

252 100

253 22.7 26.7 40.1#

125 4.1 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 3.364 ng

RT: 23.263 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

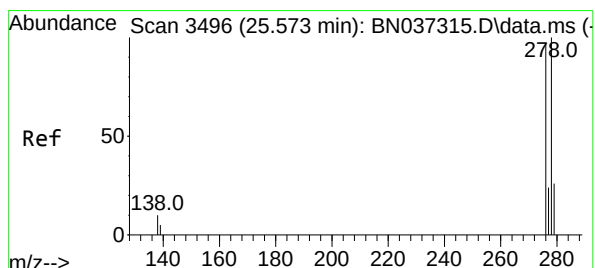
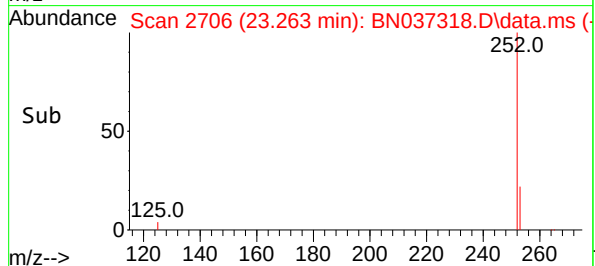
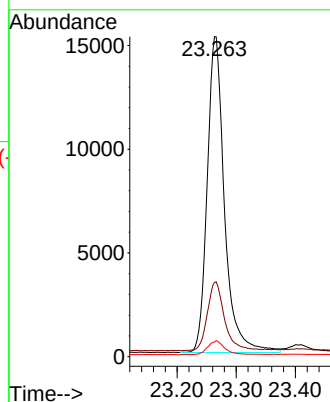
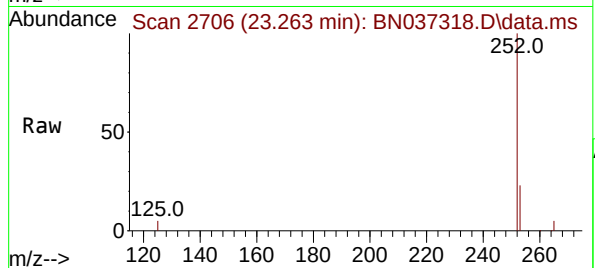
Tgt Ion:252 Resp: 30925

Ion Ratio Lower Upper

252 100

253 23.2 31.6 47.4#

125 4.6 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 3.595 ng

RT: 25.561 min Scan# 3492

Delta R.T. -0.012 min

Lab File: BN037318.D

Acq: 18 Jun 2025 17:07

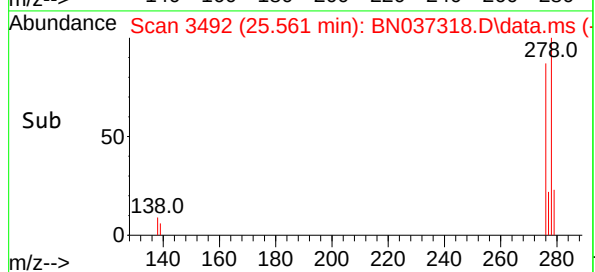
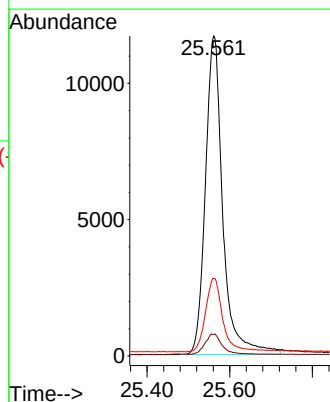
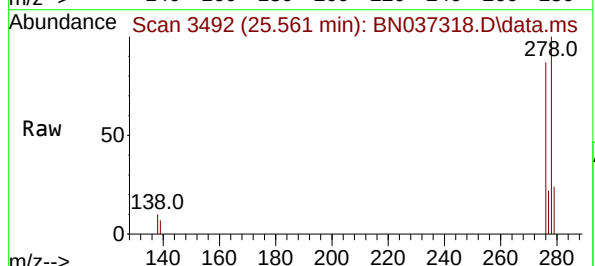
Tgt Ion:278 Resp: 34195

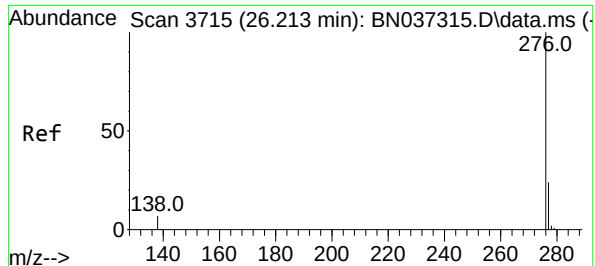
Ion Ratio Lower Upper

278 100

139 6.7 10.2 15.4#

279 24.2 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 3.371 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037318.D

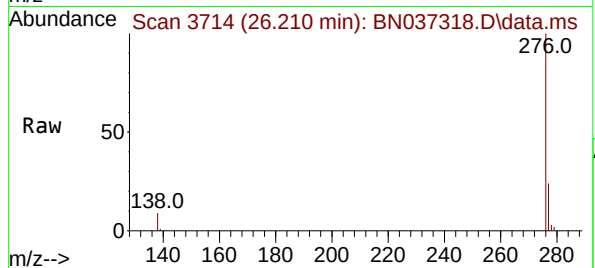
Acq: 18 Jun 2025 17:07

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



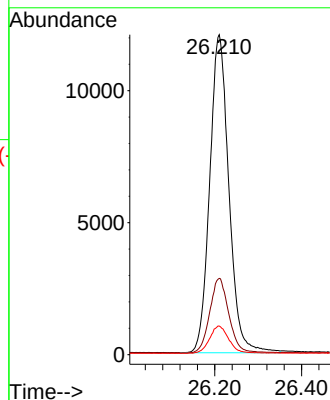
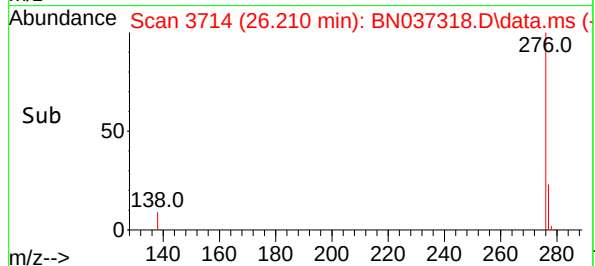
Tgt Ion:276 Resp: 36941

Ion Ratio Lower Upper

276 100

277 23.8 22.7 34.1

138 9.0 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037319.D
 Acq On : 18 Jun 2025 17:43
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 18 18:34:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:27:59 2025
 Response via : Initial Calibration

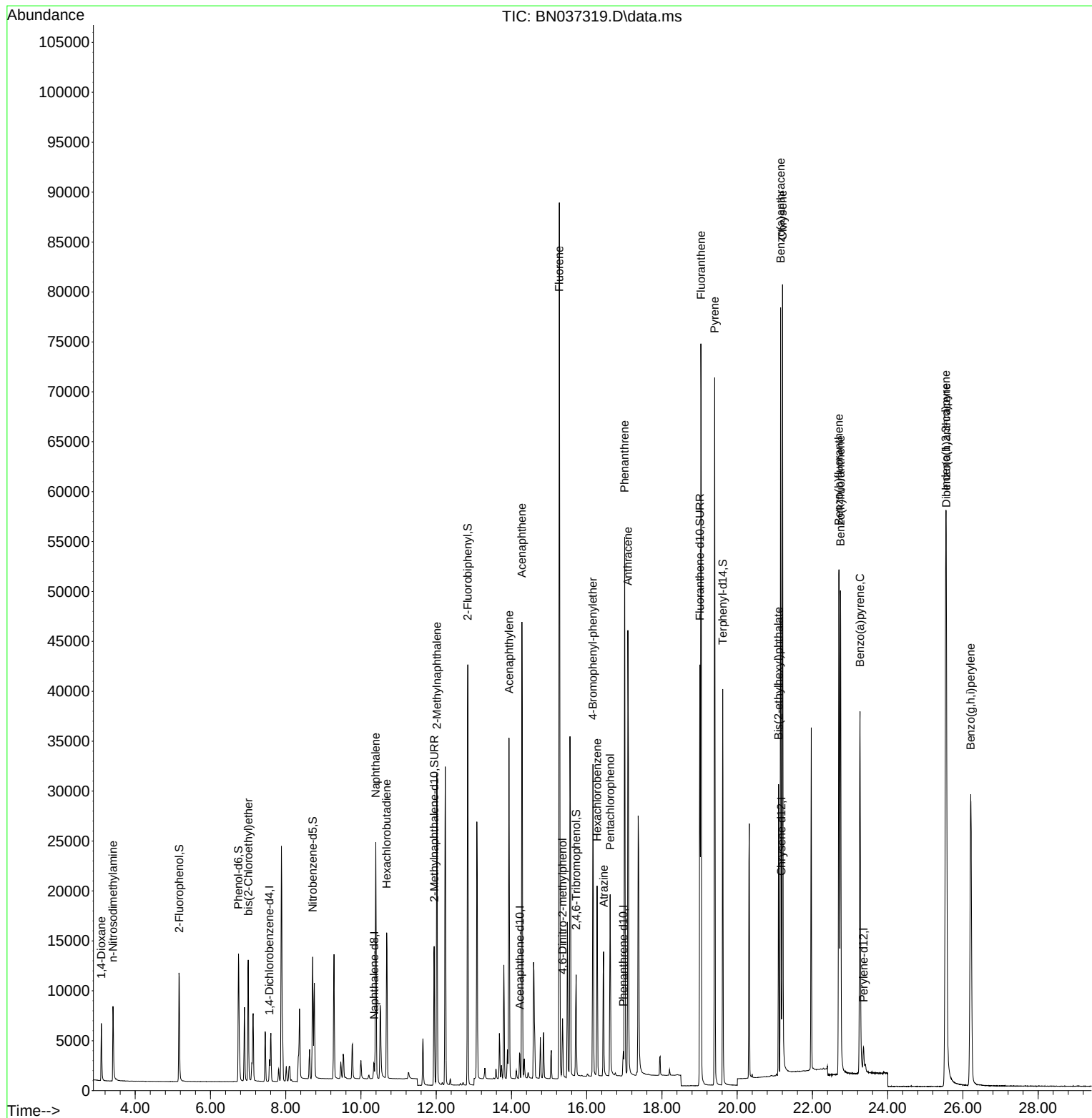
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1020	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2133	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1559	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	3357	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	3354	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	3261	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	9214	4.971	ng	0.00
5) Phenol-d6	6.744	99	10823	5.939	ng	-0.01
8) Nitrobenzene-d5	8.717	82	9918	5.663	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	18458	5.322	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	5546	4.957	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	35148	5.145	ng	0.00
27) Fluoranthene-d10	19.008	212	51442	4.834	ng	0.00
31) Terphenyl-d14	19.616	244	40091	5.209	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.097	88	4051	4.449	ng	93
3) n-Nitrosodimethylamine	3.408	42	4939	4.680	ng	# 98
6) bis(2-Chloroethyl)ether	7.004	93	9036	5.791	ng	98
9) Naphthalene	10.394	128	28133	5.098	ng	# 86
10) Hexachlorobutadiene	10.682	225	12115	4.339	ng	# 99
12) 2-Methylnaphthalene	12.016	142	21436	5.515	ng	96
16) Acenaphthylene	13.935	152	34150	5.206	ng	99
17) Acenaphthene	14.277	154	22198	5.097	ng	96
18) Fluorene	15.272	166	32274	5.229	ng	99
20) 4,6-Dinitro-2-methylph...	15.357	198	5986	5.944	ng	# 45
21) 4-Bromophenyl-phenylether	16.165	248	14011	5.031	ng	# 85
22) Hexachlorobenzene	16.276	284	13209	4.526	ng	97
23) Atrazine	16.450	200	11134	5.113	ng	# 79
24) Pentachlorophenol	16.624	266	8318	5.147	ng	96
25) Phenanthrene	17.009	178	50366	5.329	ng	99
26) Anthracene	17.096	178	48942	5.521	ng	99
28) Fluoranthene	19.036	202	66047	5.031	ng	100
30) Pyrene	19.403	202	65817	5.153	ng	100
32) Benzo(a)anthracene	21.153	228	61197	5.666	ng	96
33) Chrysene	21.207	228	63908	4.636	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	22526	5.087	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.544	276	75939	5.537	ng	# 91
37) Benzo(b)fluoranthene	22.705	252	63355	5.562	ng	# 82
38) Benzo(k)fluoranthene	22.746	252	65547	5.239	ng	# 82
39) Benzo(a)pyrene	23.263	252	55883	5.299	ng	# 75
40) Dibenzo(a,h)anthracene	25.558	278	61327	5.619	ng	# 73
41) Benzo(g,h,i)perylene	26.207	276	65369	5.199	ng	# 92

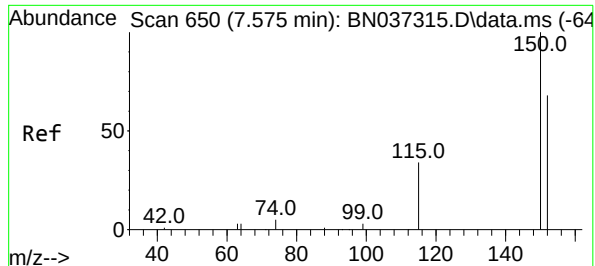
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037319.D
Acq On : 18 Jun 2025 17:43
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

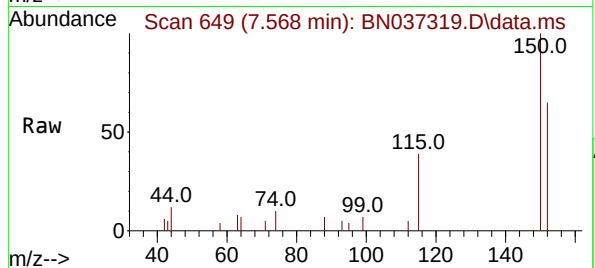
Quant Time: Jun 18 18:34:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration



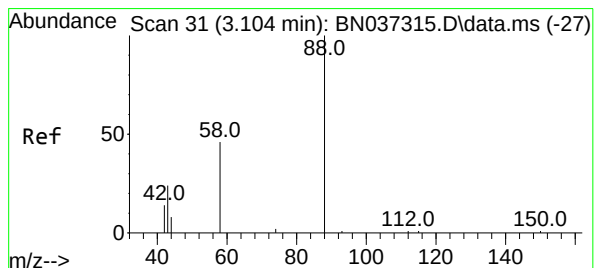
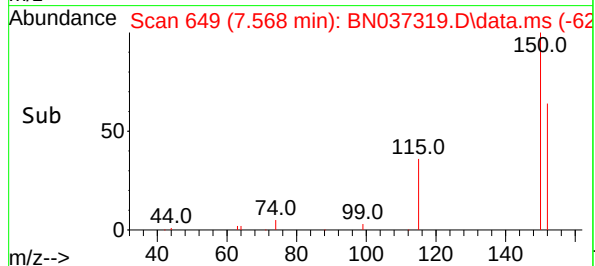
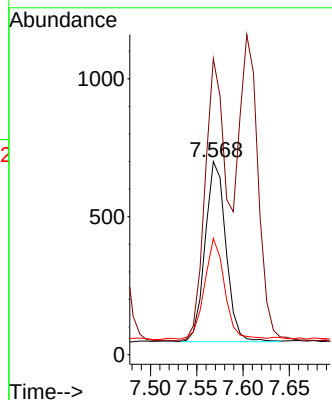


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

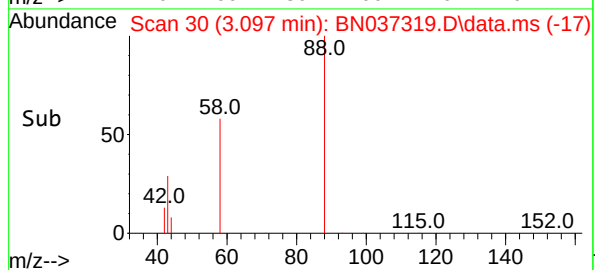
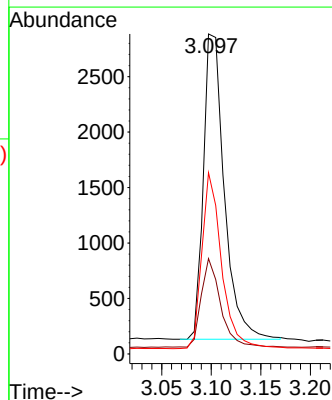
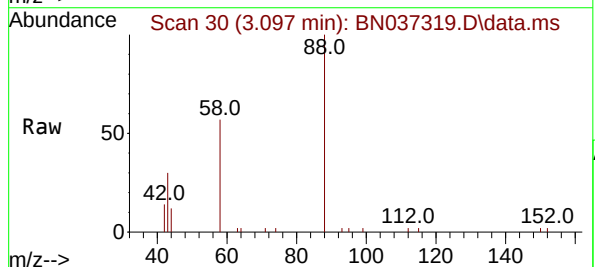


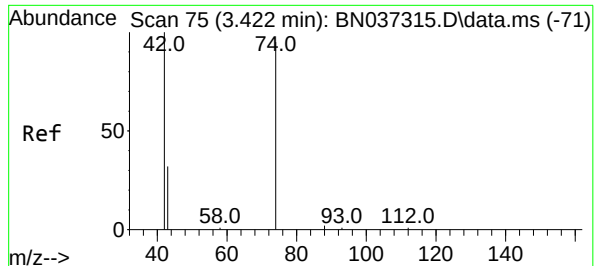
Tgt Ion:152 Resp: 1020
Ion Ratio Lower Upper
152 100
150 153.3 112.7 169.1
115 60.1 45.9 68.9



#2
1,4-Dioxane
Concen: 4.449 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion: 88 Resp: 4051
Ion Ratio Lower Upper
88 100
43 27.3 21.0 31.6
58 54.3 38.0 57.0

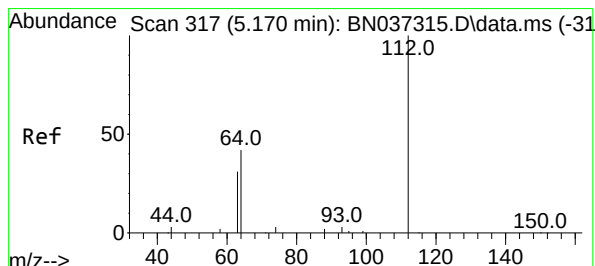
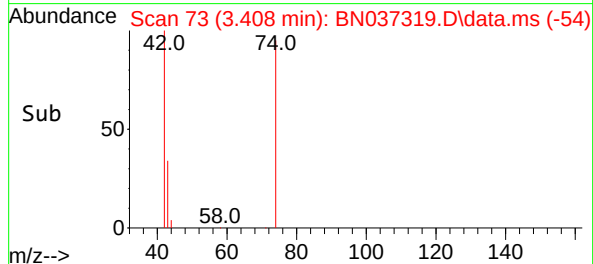
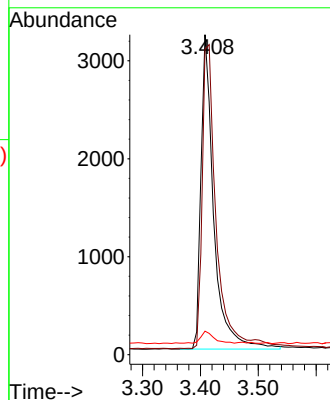
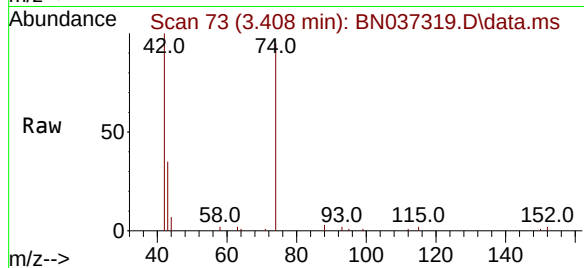




#3
n-Nitrosodimethylamine
Concen: 4.680 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

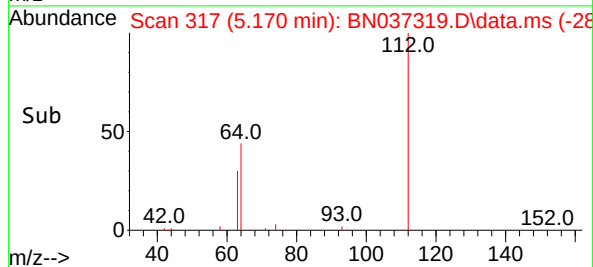
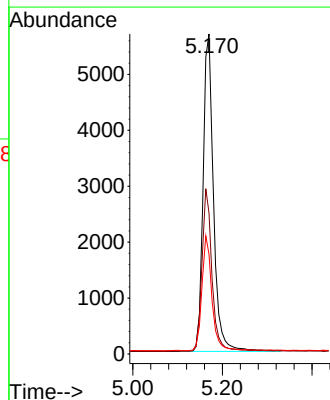
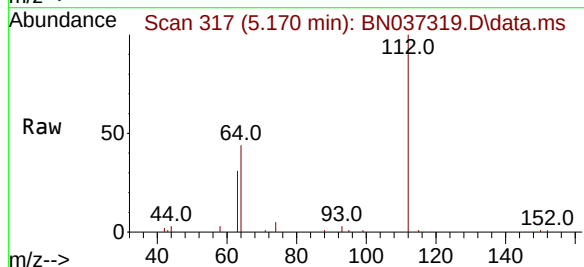
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

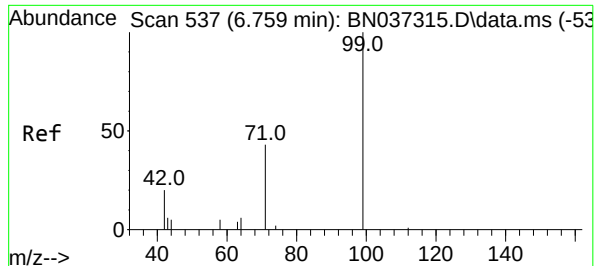
Tgt Ion: 42 Resp: 4939
Ion Ratio Lower Upper
42 100
74 107.0 84.3 126.5
44 4.2 5.0 7.4#



#4
2-Fluorophenol
Concen: 4.971 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion: 112 Resp: 9214
Ion Ratio Lower Upper
112 100
64 49.3 38.7 58.1
63 34.6 26.4 39.6

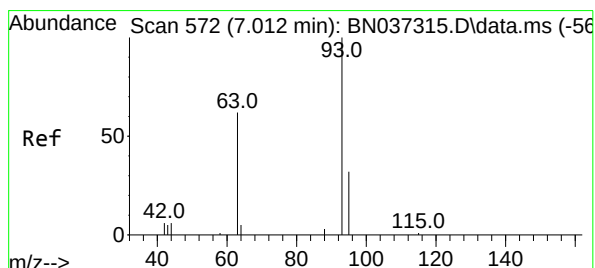
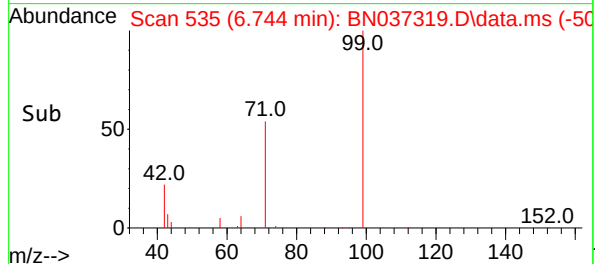
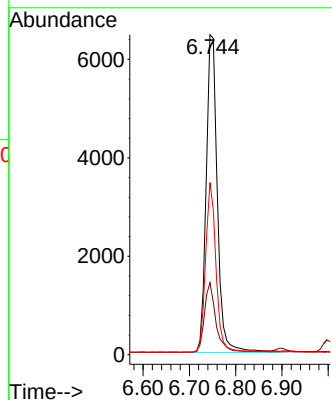
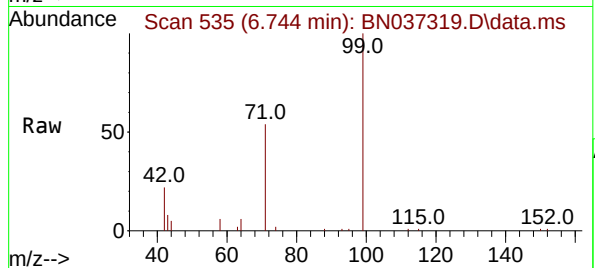




#5
Phenol-d6
Concen: 5.939 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.014 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

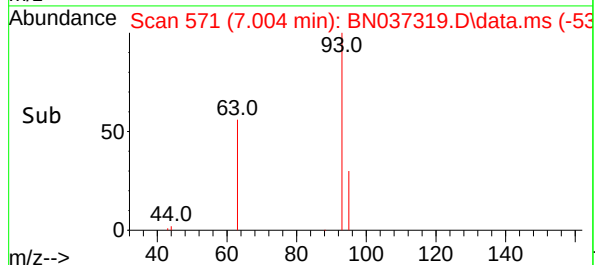
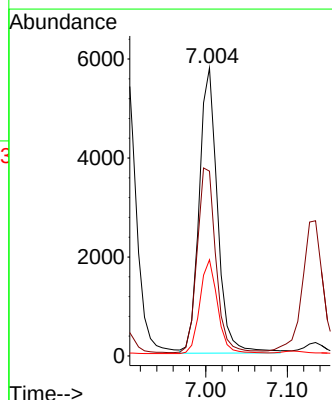
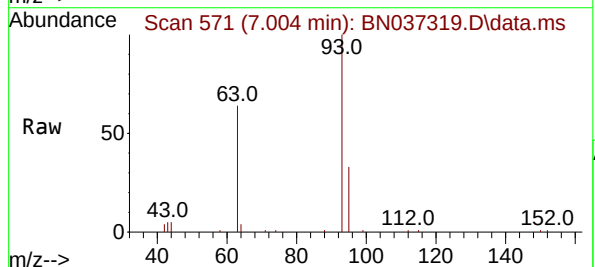
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

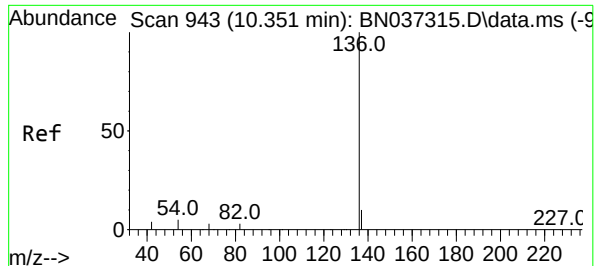
Tgt Ion: 99 Resp: 10823
Ion Ratio Lower Upper
99 100
42 22.4 19.8 29.8
71 50.0 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 5.791 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion: 93 Resp: 9036
Ion Ratio Lower Upper
93 100
63 66.0 53.2 79.8
95 31.9 27.3 40.9

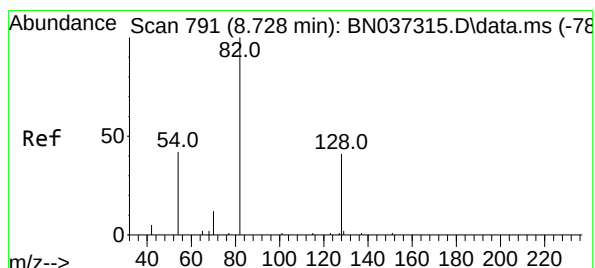
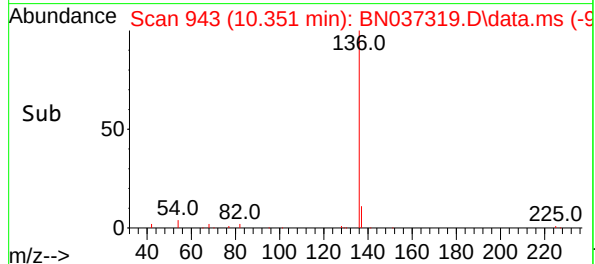
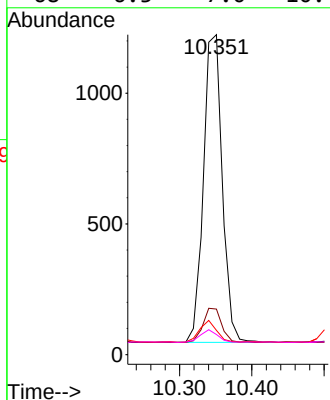
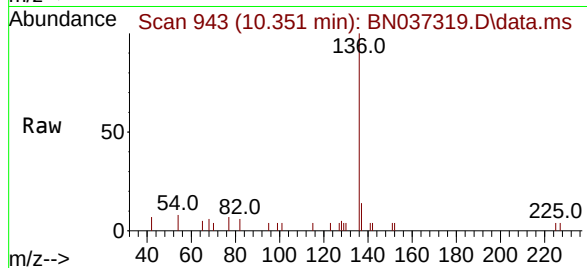




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

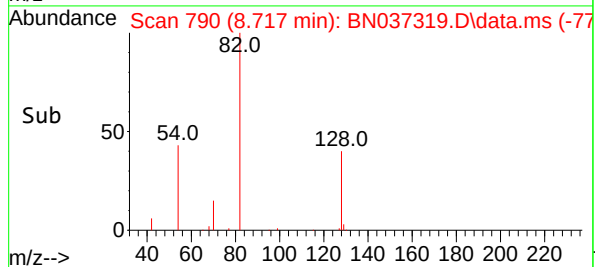
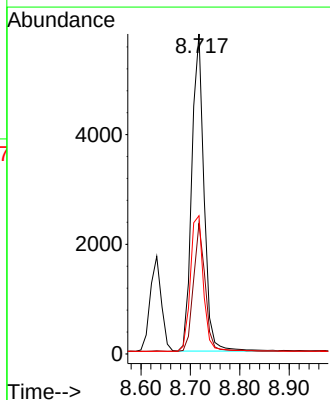
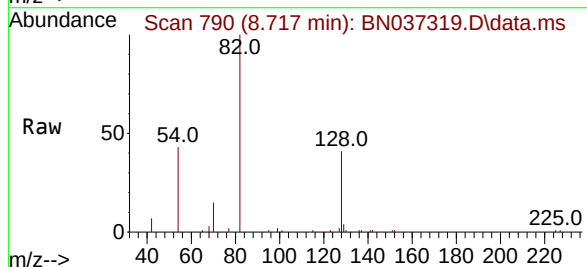
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

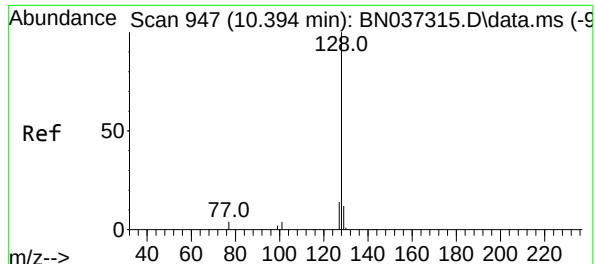
Tgt Ion:	136	Resp:	2133
Ion	Ratio	Lower	Upper
136	100		
137	14.2	12.2	18.2
54	7.6	8.8	13.2#
68	6.3	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 5.663 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion:	82	Resp:	9918
Ion	Ratio	Lower	Upper
82	100		
128	40.9	42.5	63.7#
54	43.2	43.2	64.8

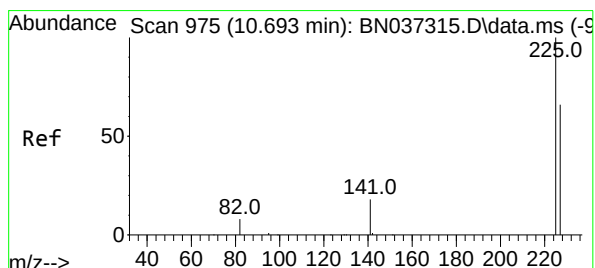
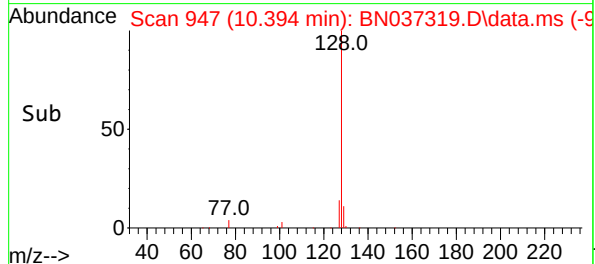
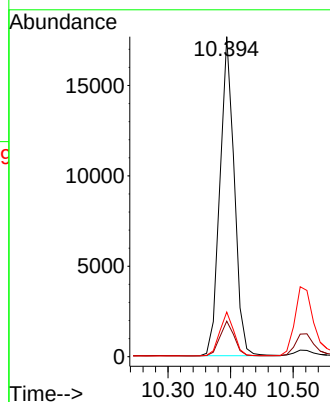
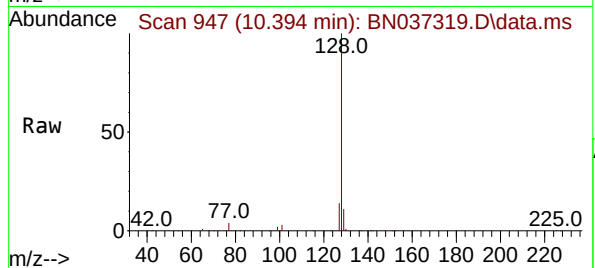




#9
Naphthalene
Concen: 5.098 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

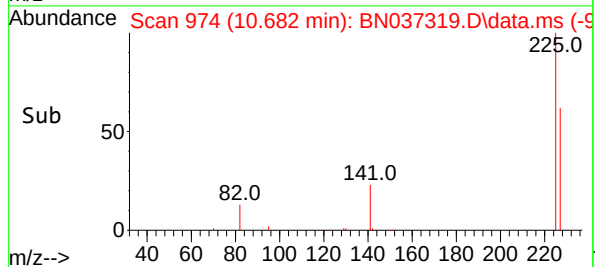
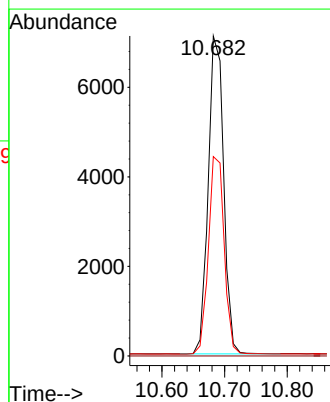
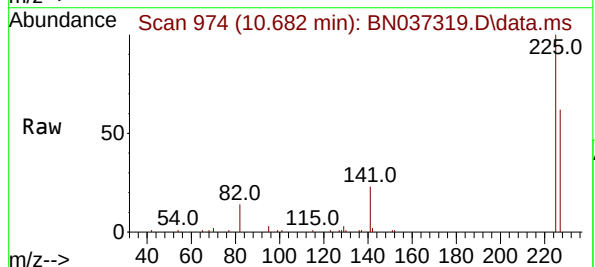
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

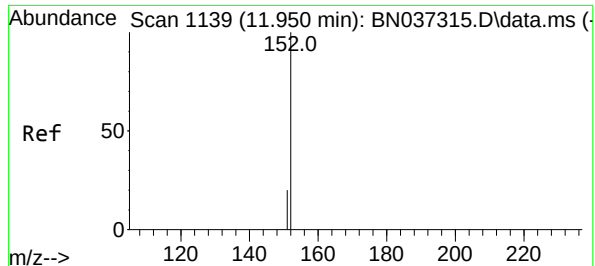
Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.1	14.0	21.0#
127	14.0	15.8	23.8#



#10
Hexachlorobutadiene
Concen: 4.339 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

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

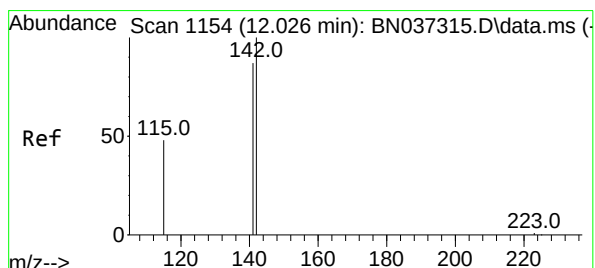
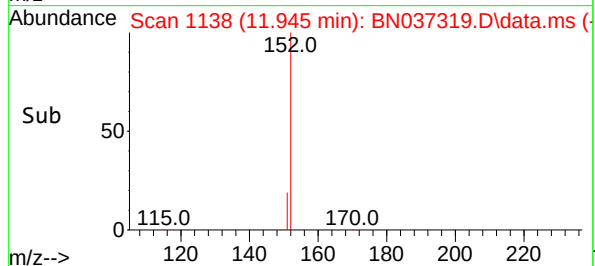
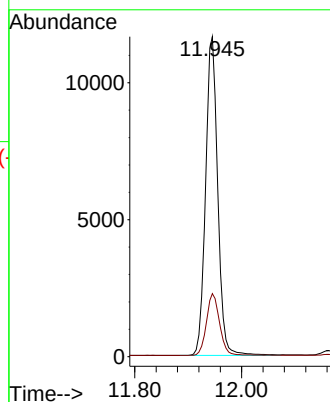
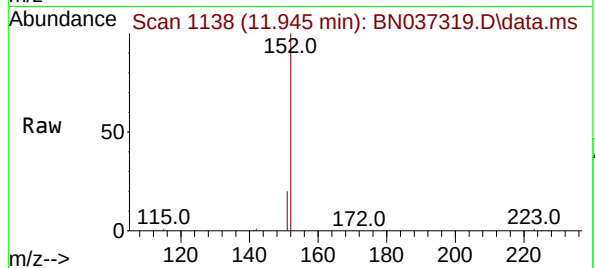




#11
2-Methylnaphthalene-d10
Concen: 5.322 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

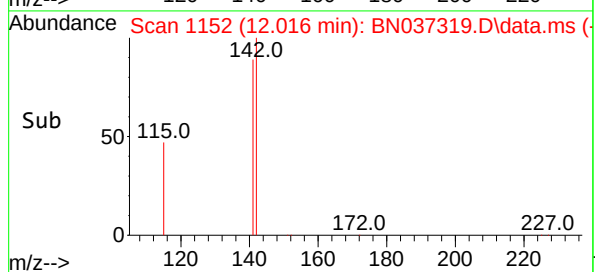
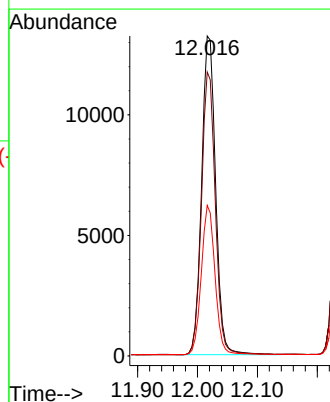
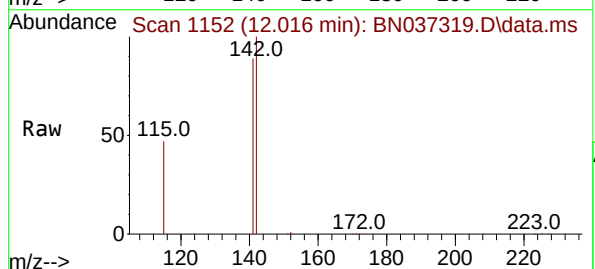
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

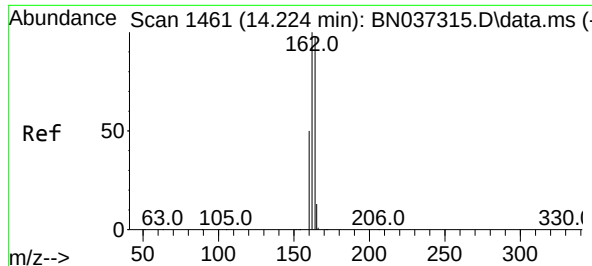
Tgt Ion:152 Resp: 18458
Ion Ratio Lower Upper
152 100
151 21.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 5.515 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.010 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion:142 Resp: 21436
Ion Ratio Lower Upper
142 100
141 88.8 70.2 105.2
115 47.0 43.0 64.4

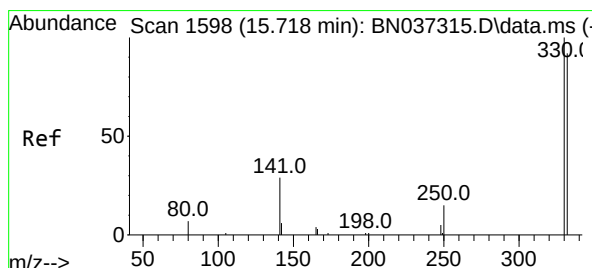
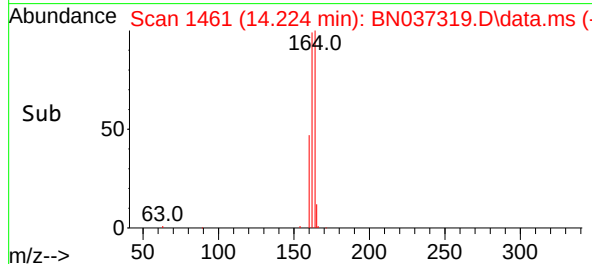
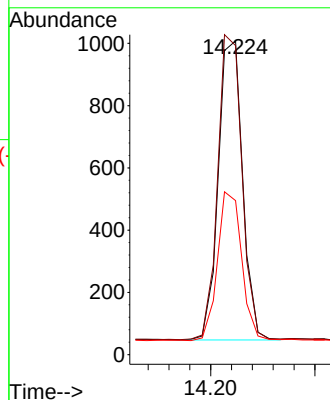
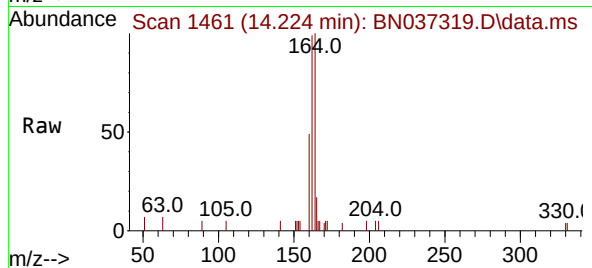




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

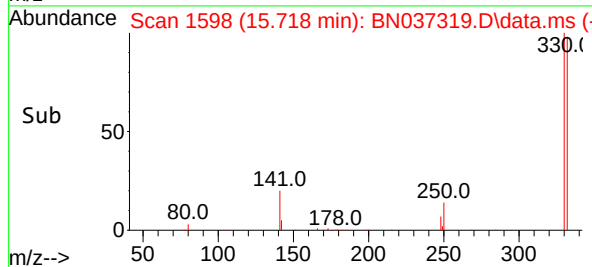
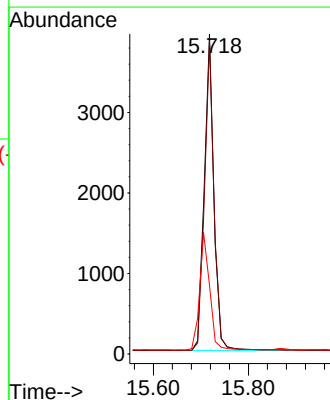
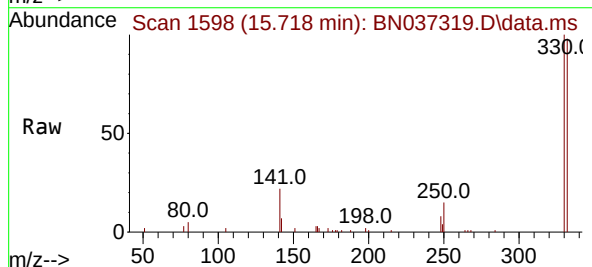
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

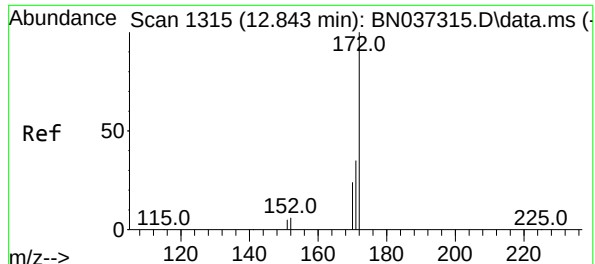
Tgt Ion	Ratio	Lower	Upper
164	100		
162	98.5	81.5	122.3
160	49.1	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 4.957 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.4	117.6
141	38.5	24.4	36.6#

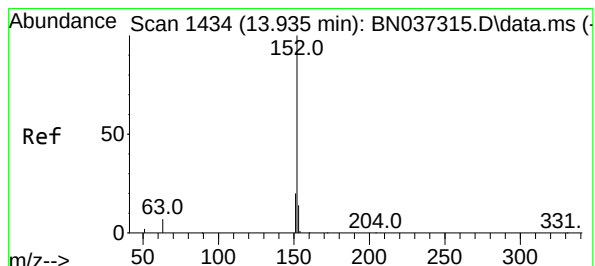
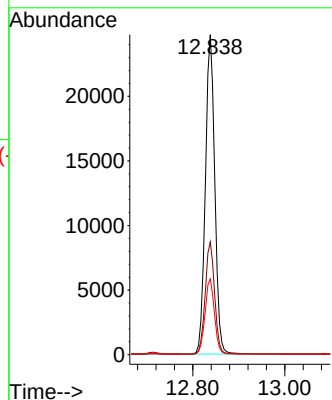
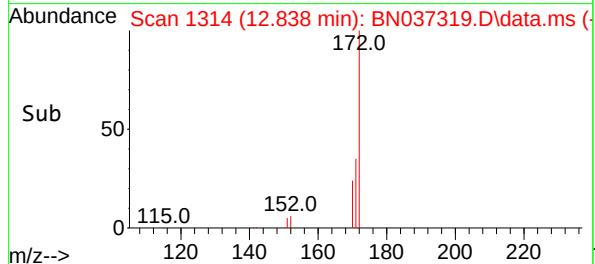
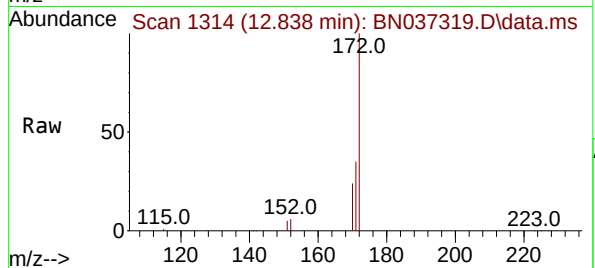




#15
2-Fluorobiphenyl
Concen: 5.145 ng
RT: 12.838 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

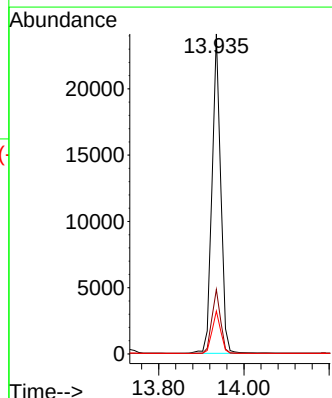
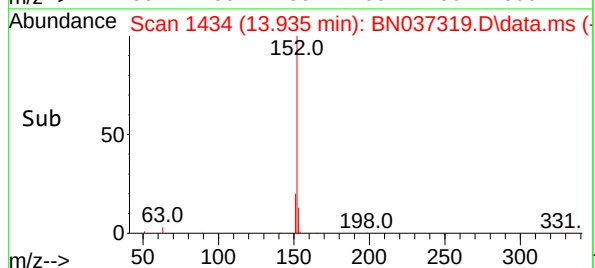
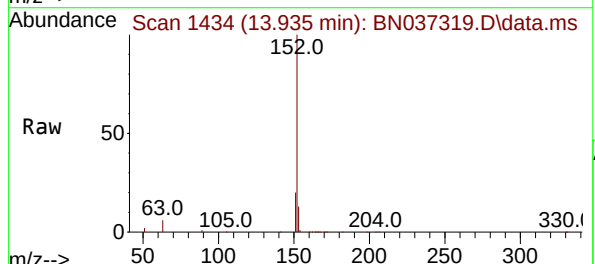
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

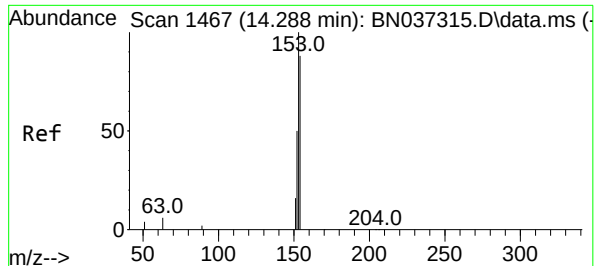
Tgt Ion:172 Resp: 35148
Ion Ratio Lower Upper
172 100
171 35.3 30.8 46.2
170 23.7 21.9 32.9



#16
Acenaphthylene
Concen: 5.206 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion:152 Resp: 34150
Ion Ratio Lower Upper
152 100
151 20.0 16.6 24.8
153 13.2 10.2 15.2

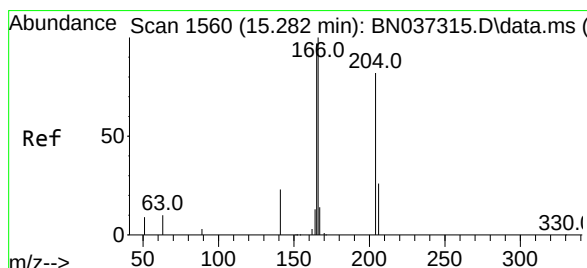
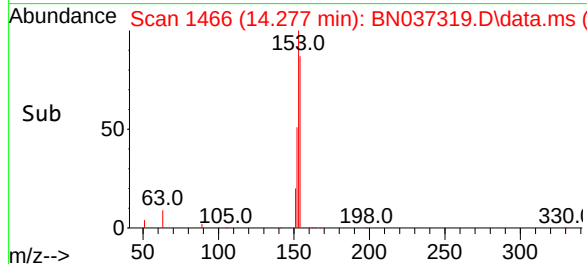
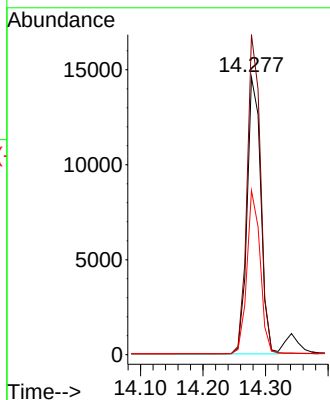
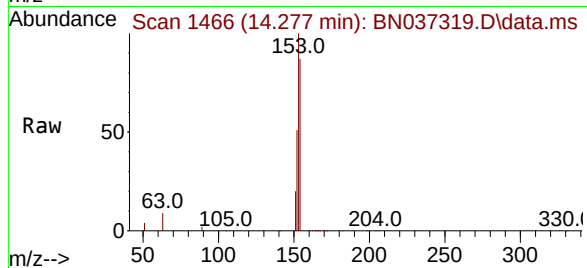




#17
Acenaphthene
Concen: 5.097 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

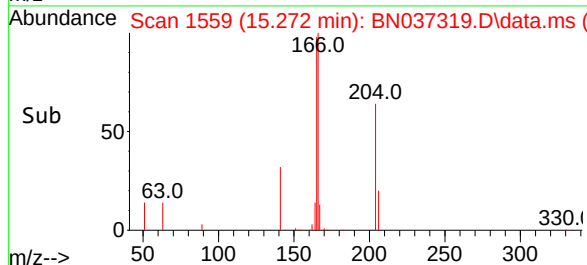
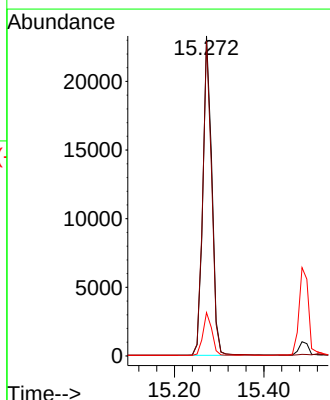
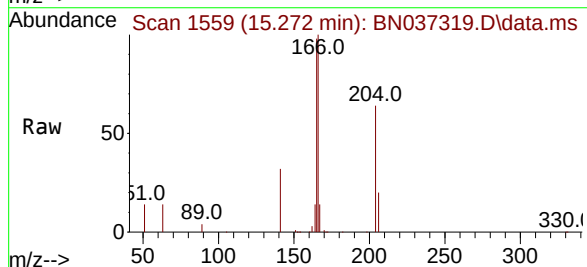
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

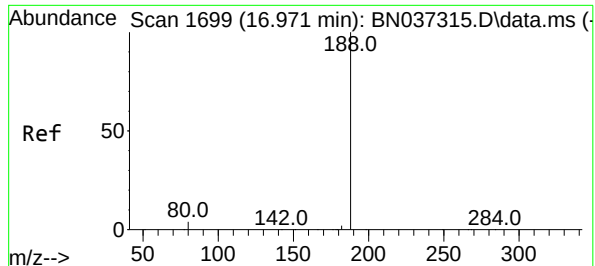
Tgt Ion:154 Resp: 22198
Ion Ratio Lower Upper
154 100
153 113.2 93.1 139.7
152 57.3 48.6 73.0



#18
Fluorene
Concen: 5.229 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion:166 Resp: 32274
Ion Ratio Lower Upper
166 100
165 97.9 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: BN037319.D

Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

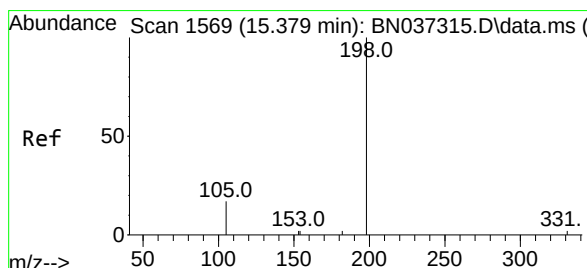
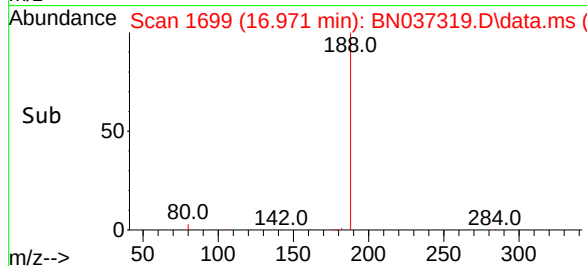
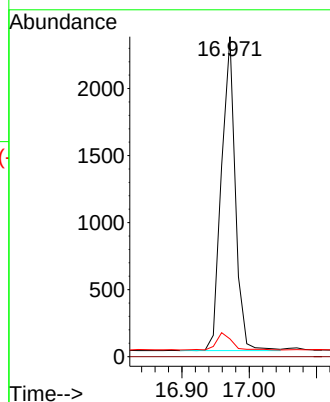
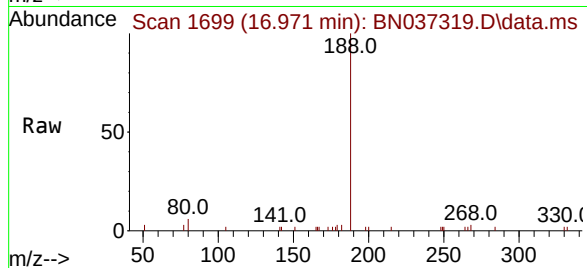
Tgt Ion:188 Resp: 3357

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: 5.944 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.021 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

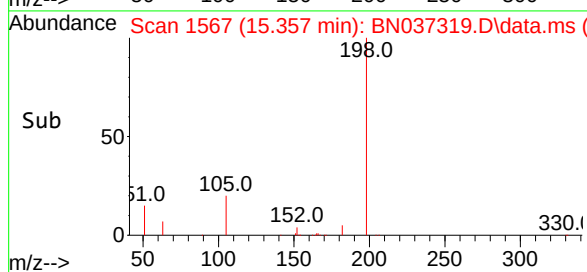
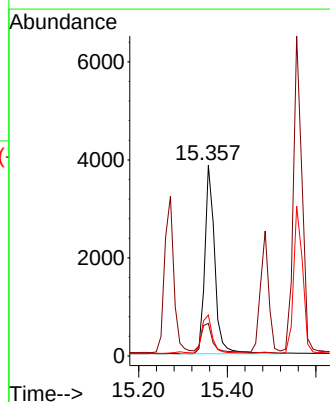
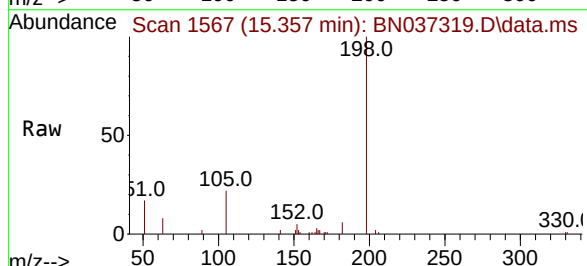
Tgt Ion:198 Resp: 5986

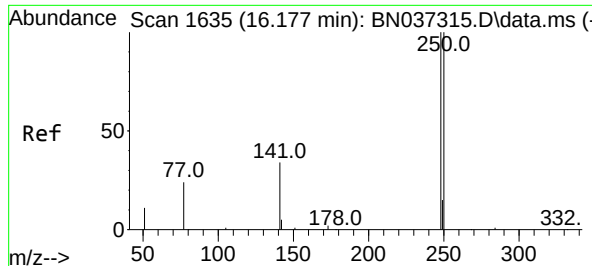
Ion Ratio Lower Upper

198 100

51 17.0 51.4 77.0#

105 21.5 45.5 68.3#

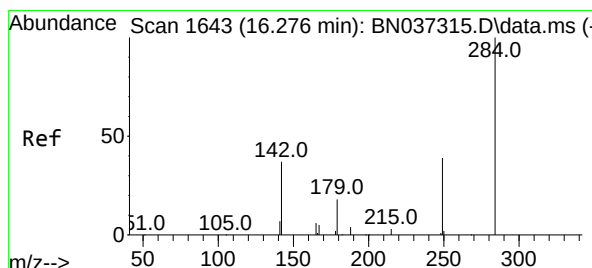
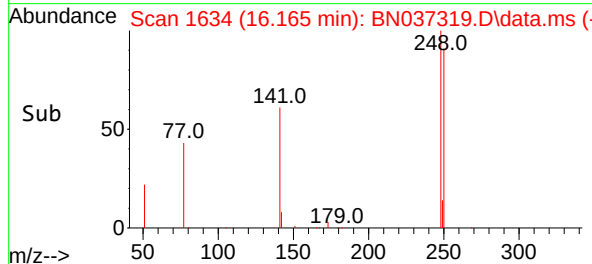
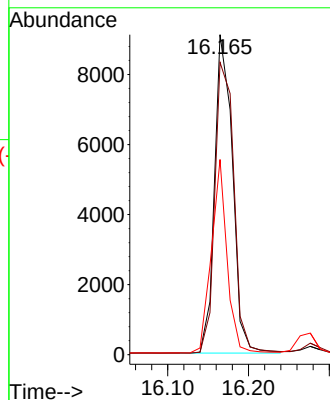
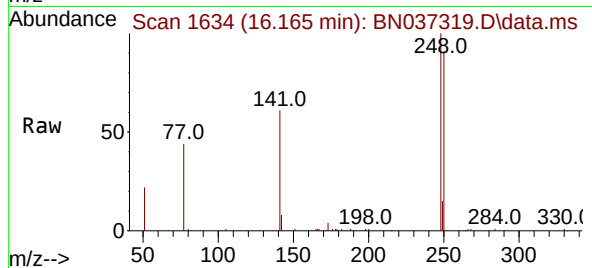




#21
4-Bromophenyl-phenylether
Concen: 5.031 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.012 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

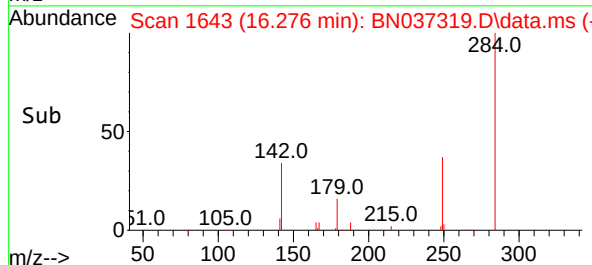
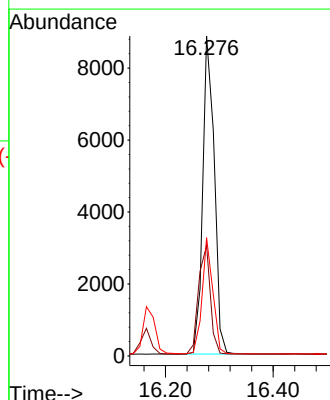
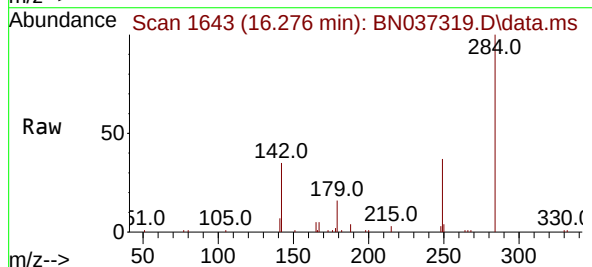
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

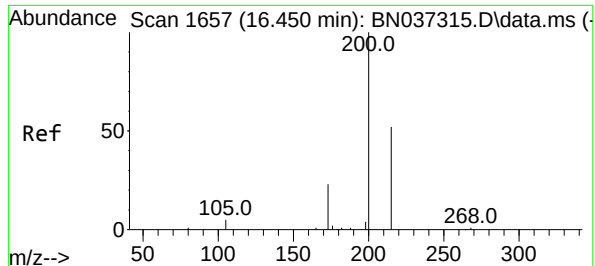
Tgt Ion	Ratio	Lower	Upper
248	100		
250	91.3	80.4	120.6
141	61.0	33.3	49.9



#22
Hexachlorobenzene
Concen: 4.526 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.1	27.0	40.6
249	33.8	28.8	43.2

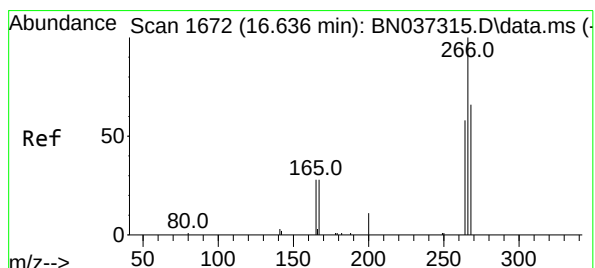
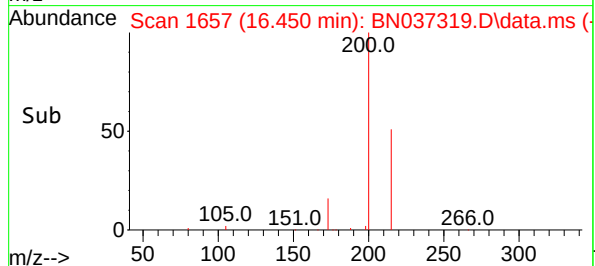
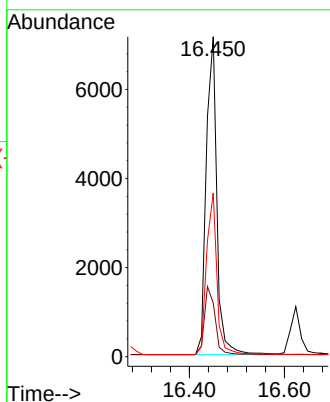
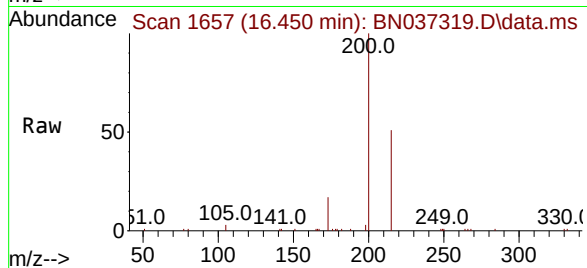




#23
Atrazine
Concen: 5.113 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

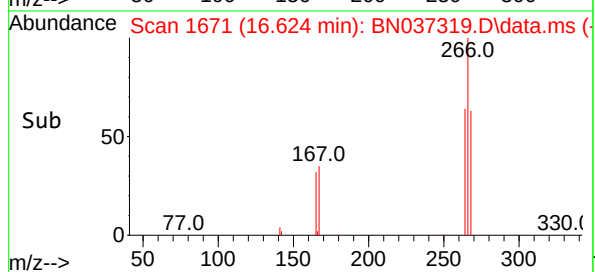
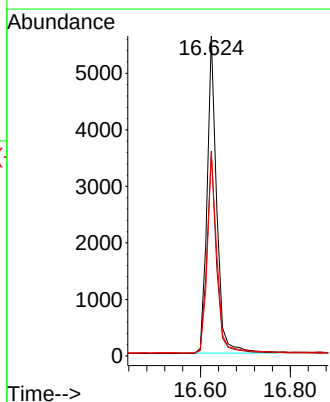
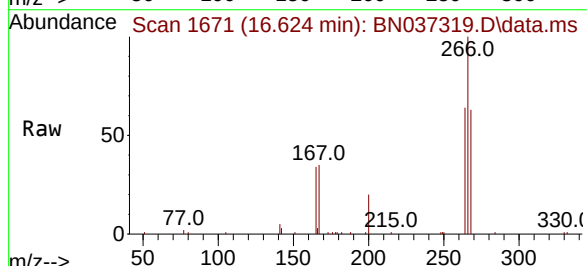
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

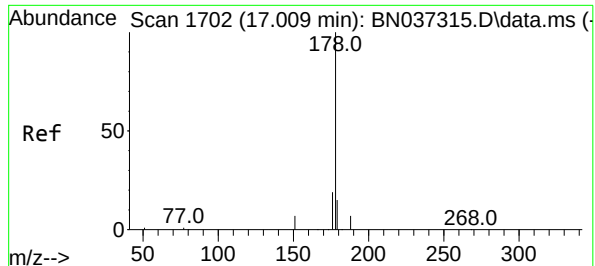
Tgt Ion:200 Resp: 11134
Ion Ratio Lower Upper
200 100
173 16.8 29.2 43.8#
215 51.2 48.8 73.2



#24
Pentachlorophenol
Concen: 5.147 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.012 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion:266 Resp: 8318
Ion Ratio Lower Upper
266 100
264 63.9 50.3 75.5
268 64.0 55.3 82.9

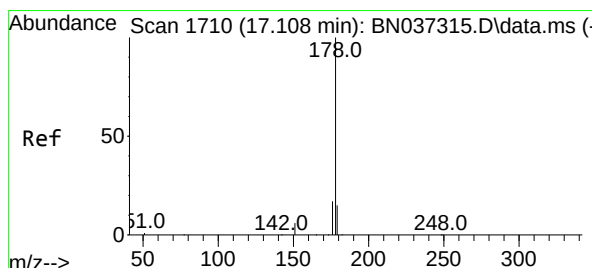
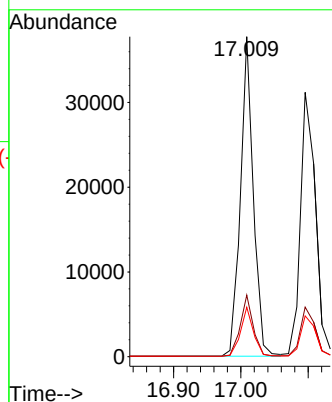
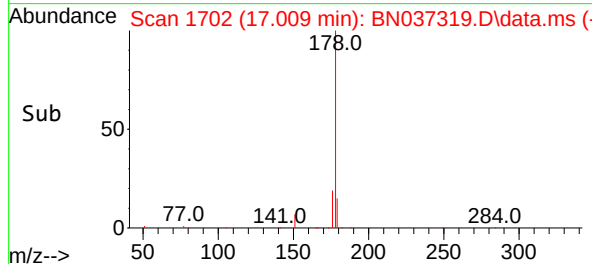
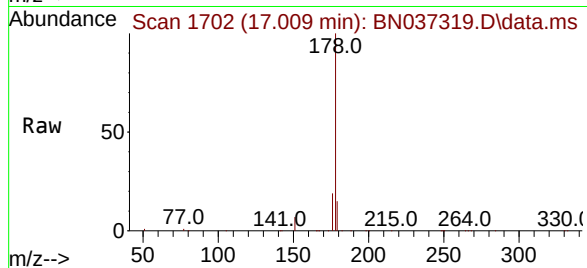




#25
Phenanthrene
Concen: 5.329 ng
RT: 17.009 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

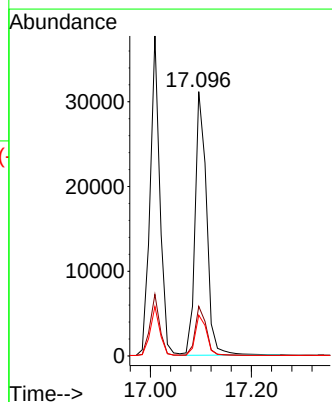
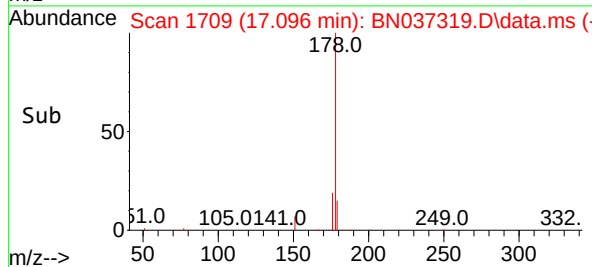
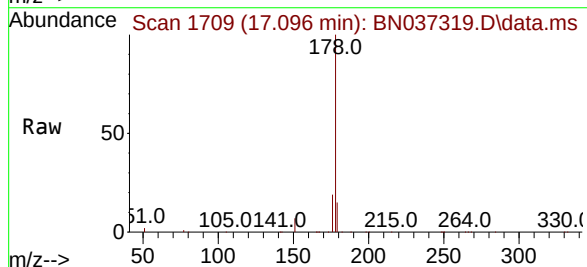
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

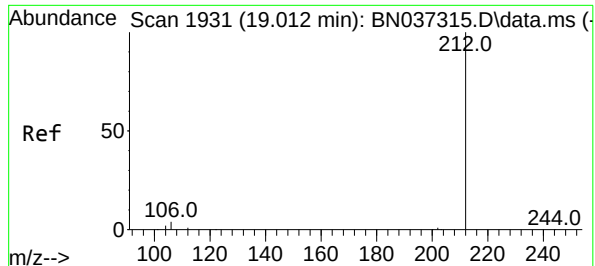
Tgt Ion:178 Resp: 50366
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.3 12.9 19.3



#26
Anthracene
Concen: 5.521 ng
RT: 17.096 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion:178 Resp: 48942
Ion Ratio Lower Upper
178 100
176 18.4 14.7 22.1
179 15.4 13.0 19.6





#27

Fluoranthene-d10

Concen: 4.834 ng

RT: 19.008 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

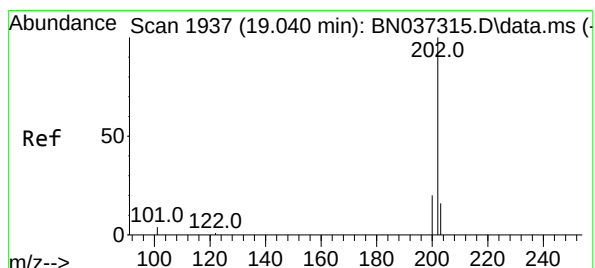
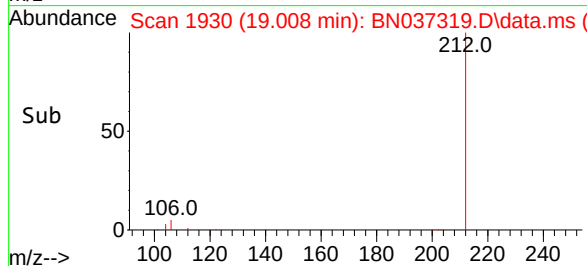
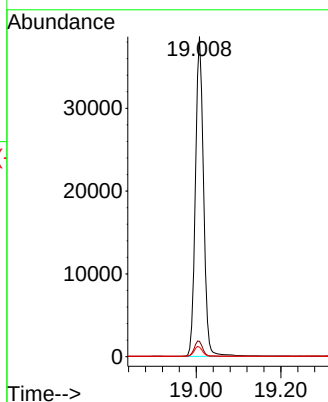
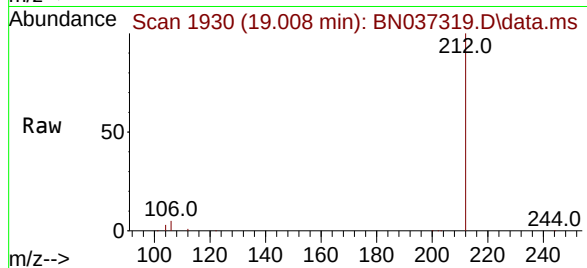
Tgt Ion:212 Resp: 51442

Ion Ratio Lower Upper

212 100

106 4.9 3.0 4.4#

104 3.1 2.0 3.0#



#28

Fluoranthene

Concen: 5.031 ng

RT: 19.036 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

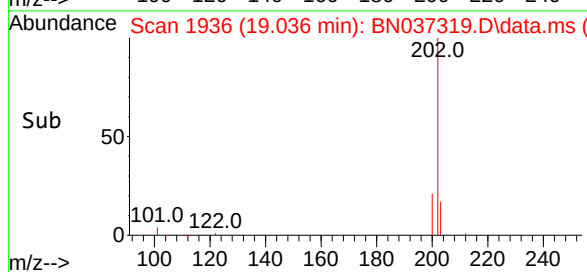
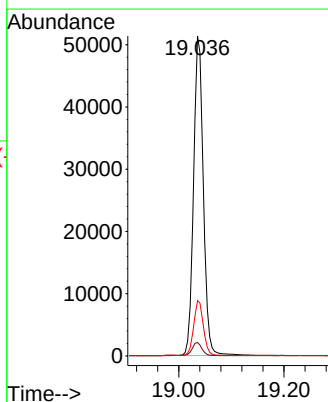
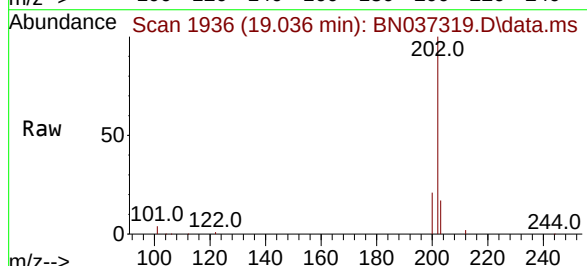
Tgt Ion:202 Resp: 66047

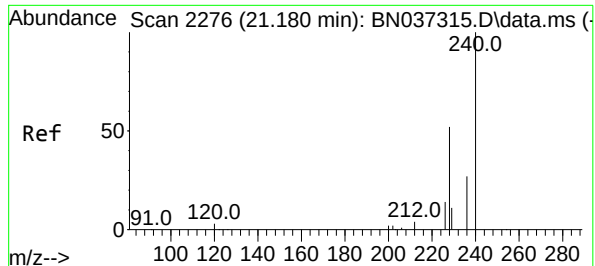
Ion Ratio Lower Upper

202 100

101 4.4 3.0 4.6

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

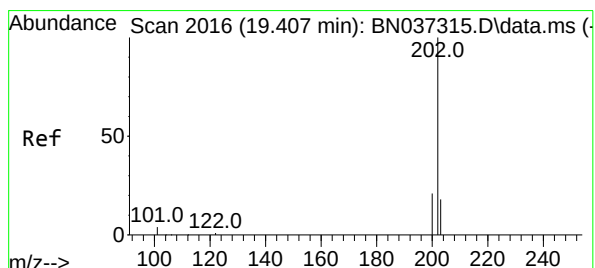
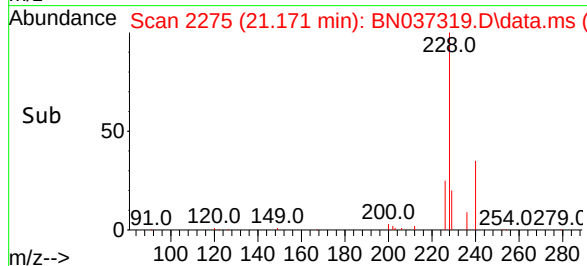
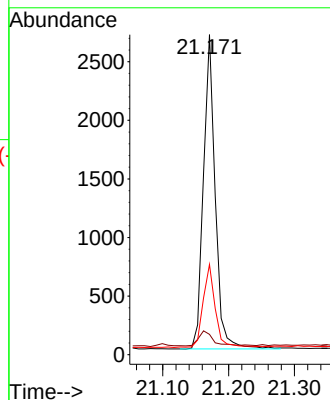
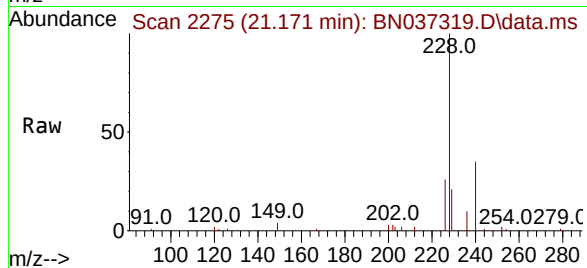
Tgt Ion:240 Resp: 3354

Ion Ratio Lower Upper

240 100

120 6.3 7.5 11.3#

236 28.2 24.9 37.3



#30

Pyrene

Concen: 5.153 ng

RT: 19.403 min Scan# 2015

Delta R.T. -0.005 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

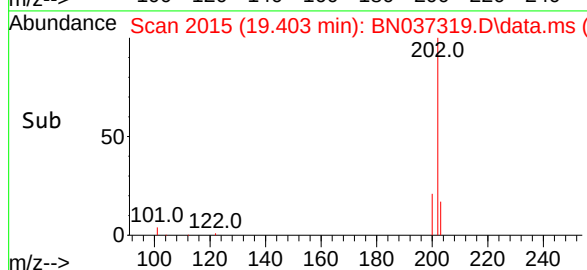
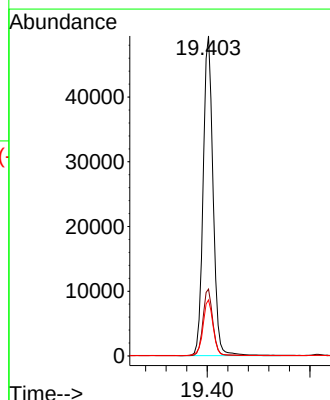
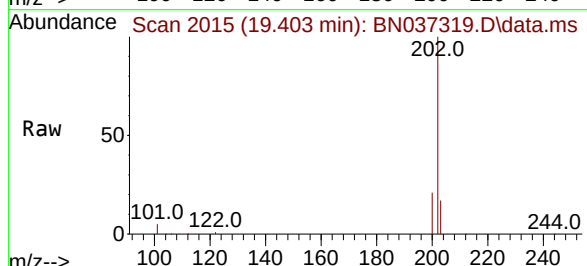
Tgt Ion:202 Resp: 65817

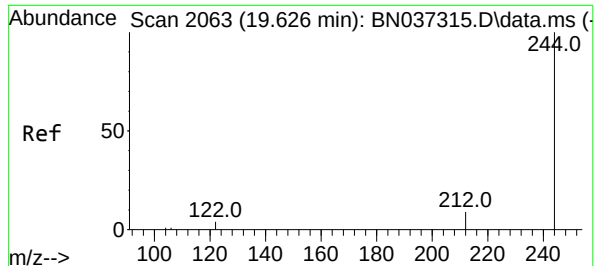
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 17.8 14.5 21.7

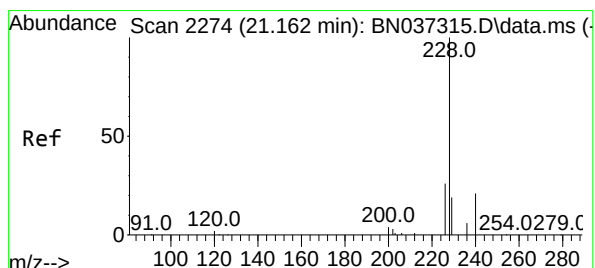
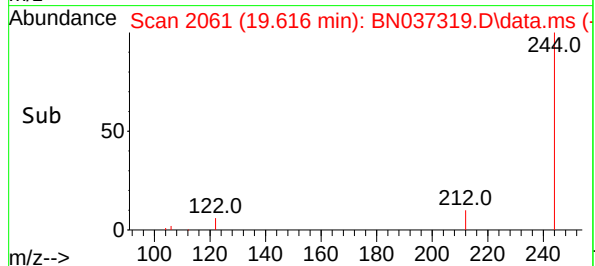
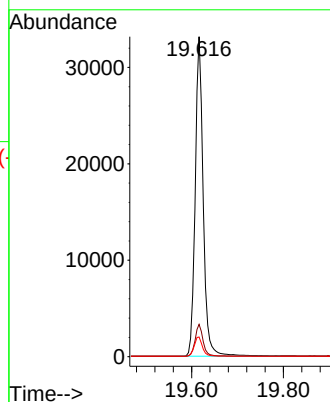
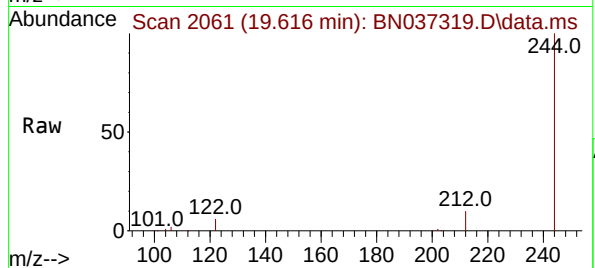




#31
Terphenyl-d14
Concen: 5.209 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

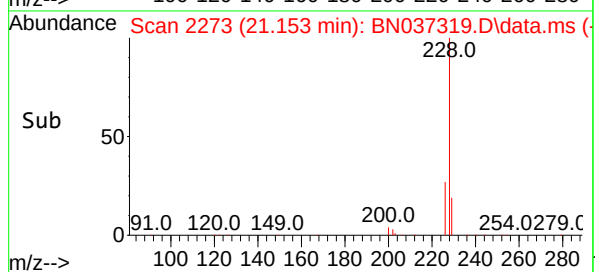
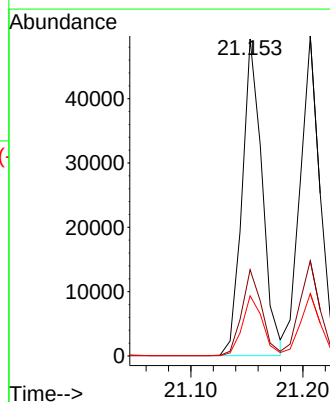
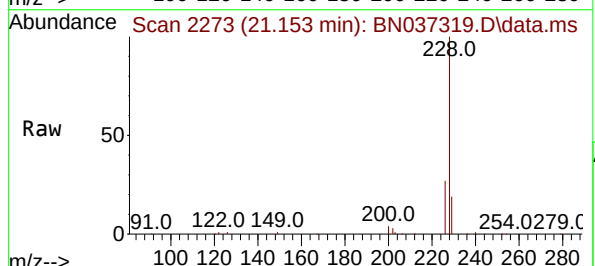
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

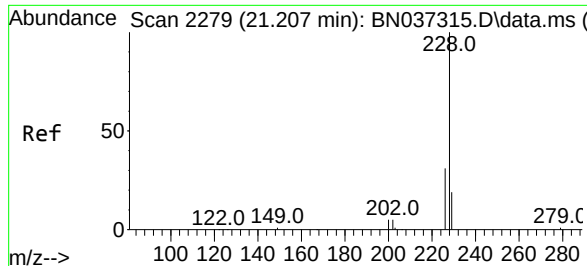
Tgt Ion:244 Resp: 40091
Ion Ratio Lower Upper
244 100
212 10.1 11.1 16.7#
122 6.1 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 5.666 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037319.D
Acq: 18 Jun 2025 17:43

Tgt Ion:228 Resp: 61197
Ion Ratio Lower Upper
228 100
226 27.2 23.0 34.4
229 19.0 17.4 26.0





#33

Chrysene

Concen: 4.636 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

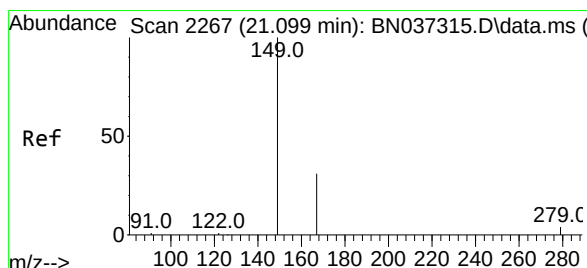
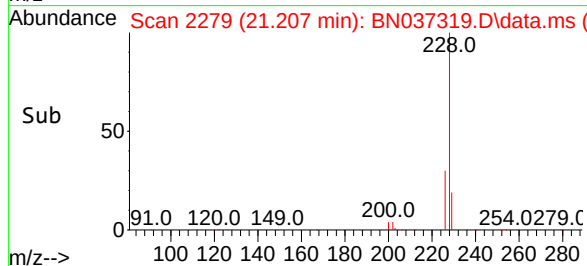
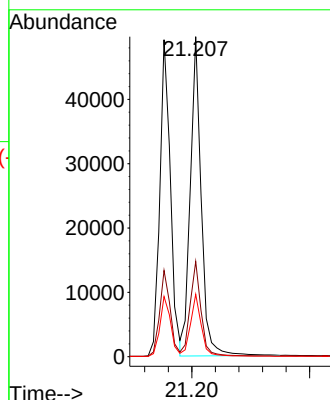
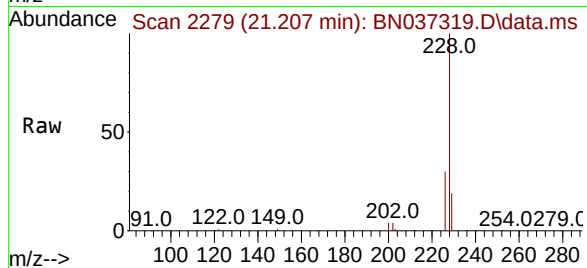
Tgt Ion:228 Resp: 63908

Ion Ratio Lower Upper

228 100

226 29.8 25.4 38.2

229 19.5 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.087 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

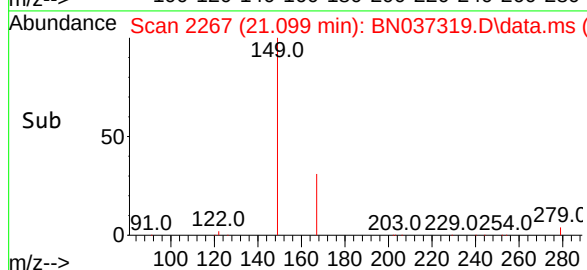
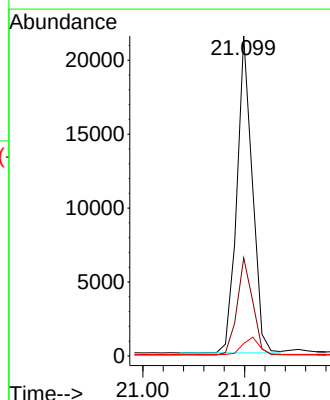
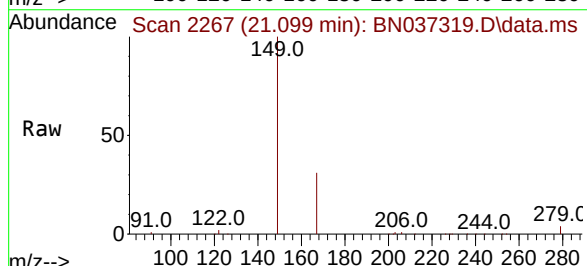
Tgt Ion:149 Resp: 22526

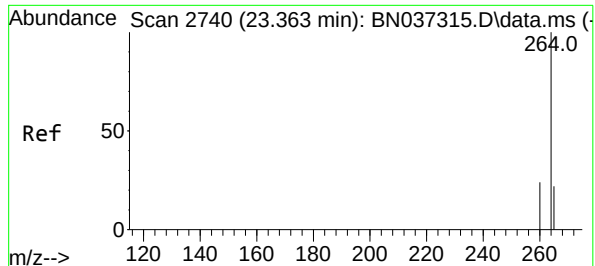
Ion Ratio Lower Upper

149 100

167 31.0 24.6 37.0

279 5.9 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

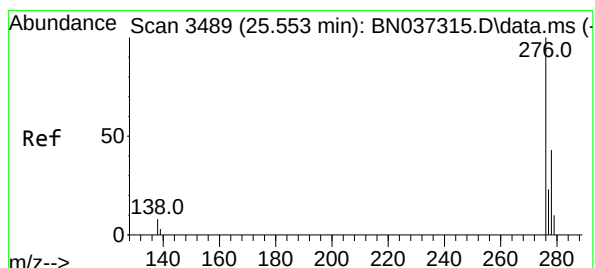
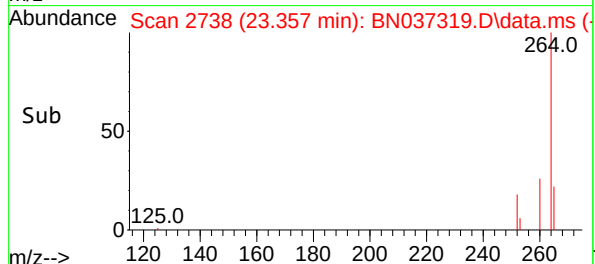
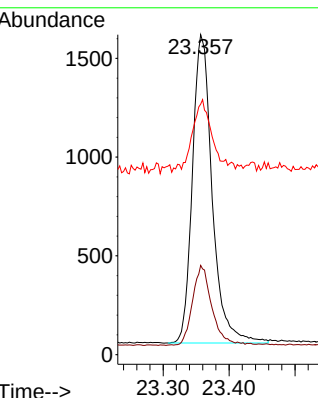
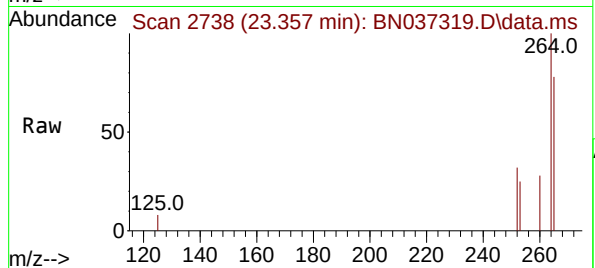
Tgt Ion:264 Resp: 3261

Ion Ratio Lower Upper

264 100

260 27.9 21.4 32.2

265 78.3 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.537 ng

RT: 25.544 min Scan# 3486

Delta R.T. -0.009 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

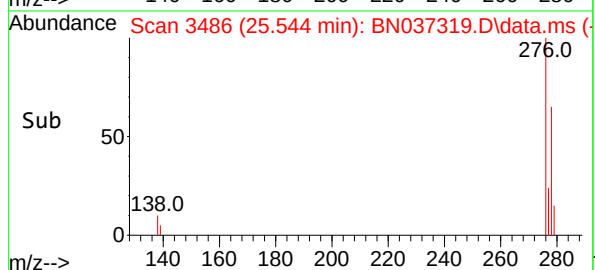
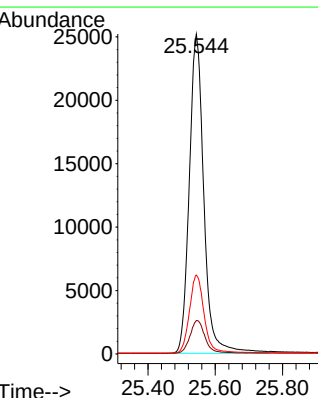
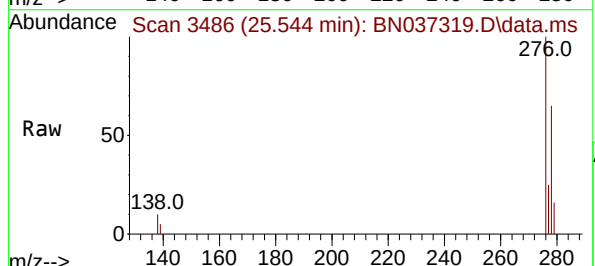
Tgt Ion:276 Resp: 75939

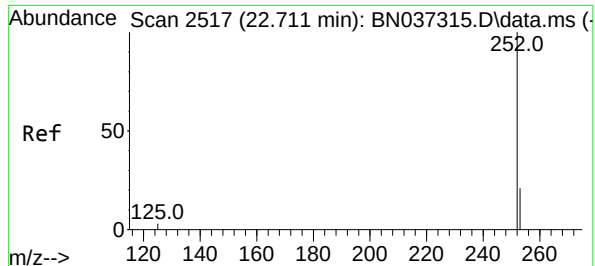
Ion Ratio Lower Upper

276 100

138 10.6 2.2 3.2#

277 24.6 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 5.562 ng

RT: 22.705 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

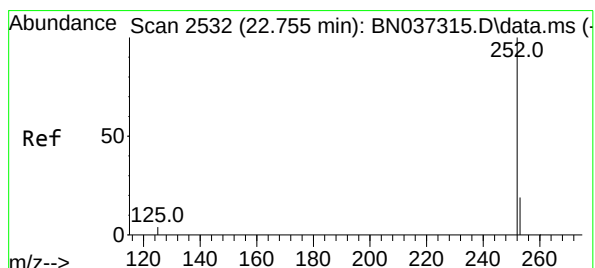
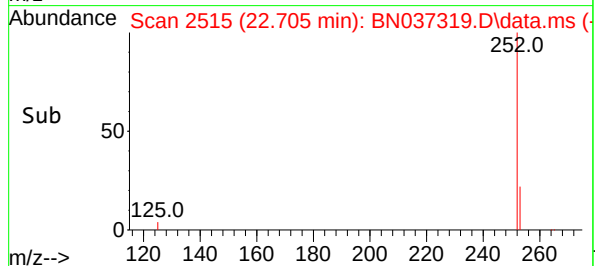
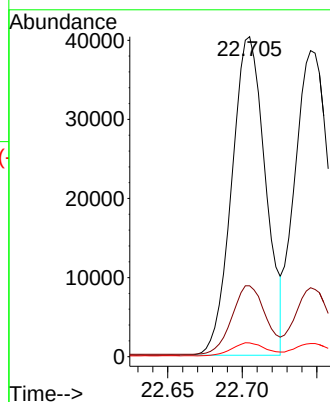
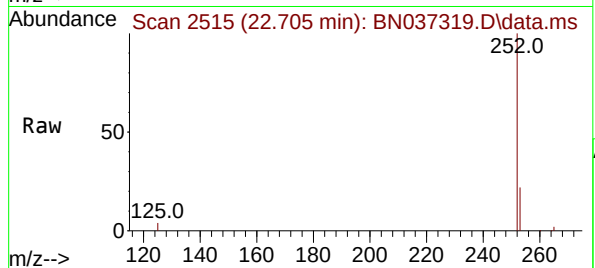
Tgt Ion:252 Resp: 63355

Ion Ratio Lower Upper

252 100

253 22.2 26.6 40.0#

125 4.3 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 5.239 ng

RT: 22.746 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

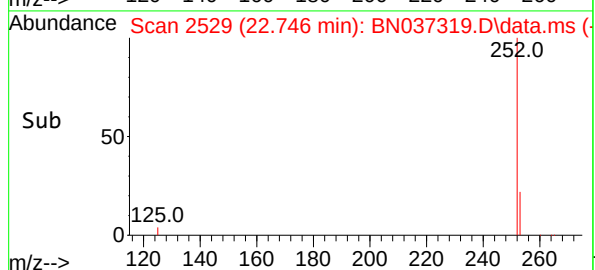
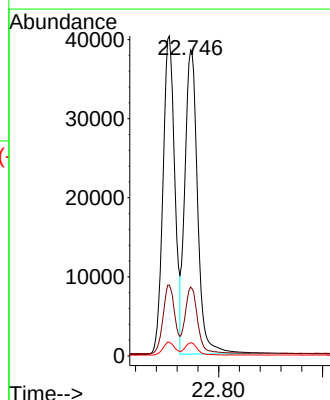
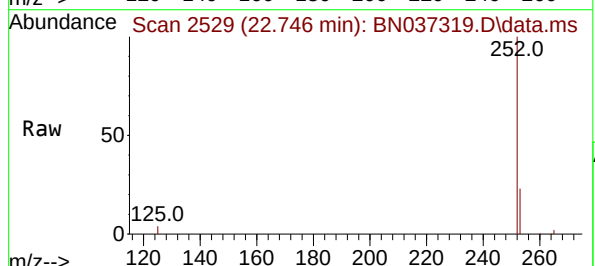
Tgt Ion:252 Resp: 65547

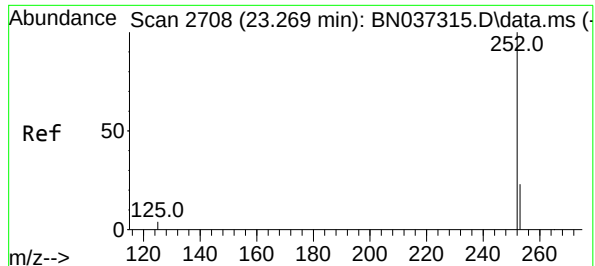
Ion Ratio Lower Upper

252 100

253 22.5 26.7 40.1#

125 4.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 5.299 ng

RT: 23.263 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

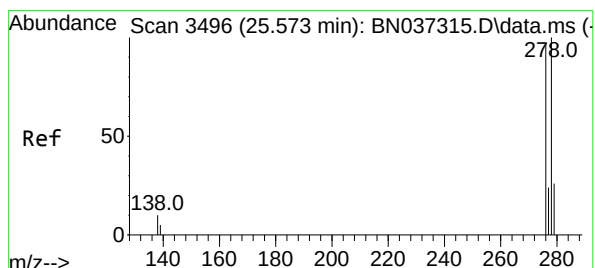
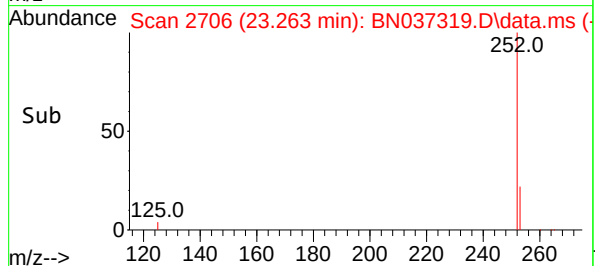
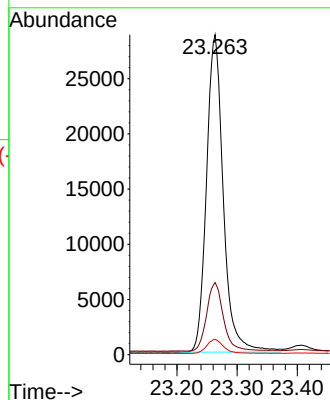
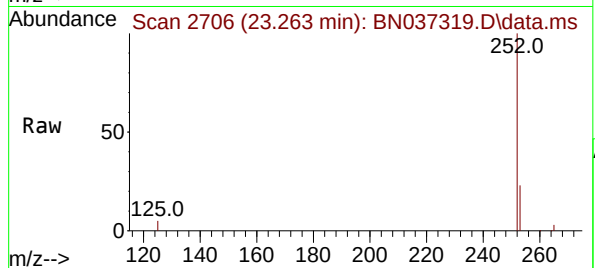
Tgt Ion:252 Resp: 55883

Ion Ratio Lower Upper

252 100

253 22.6 31.6 47.4#

125 4.8 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.619 ng

RT: 25.558 min Scan# 3491

Delta R.T. -0.015 min

Lab File: BN037319.D

Acq: 18 Jun 2025 17:43

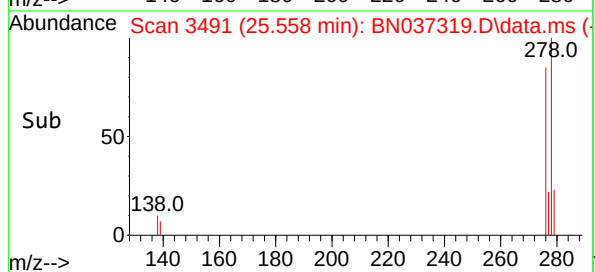
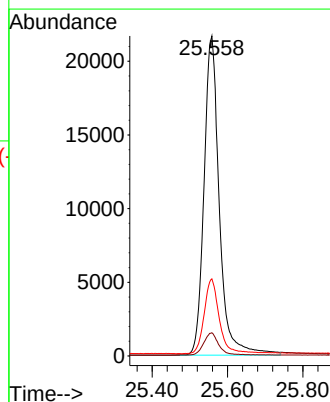
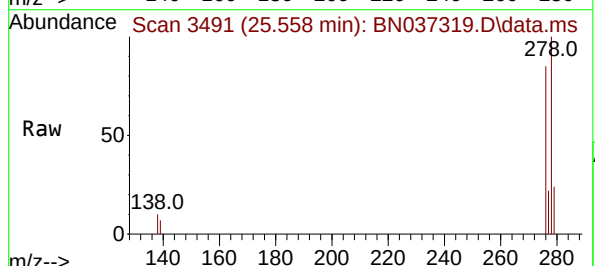
Tgt Ion:278 Resp: 61327

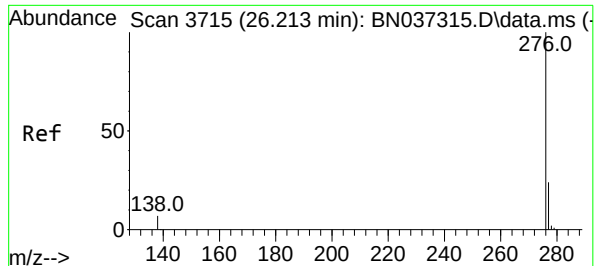
Ion Ratio Lower Upper

278 100

139 7.3 10.2 15.4#

279 24.1 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 5.199 ng

RT: 26.207 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037319.D

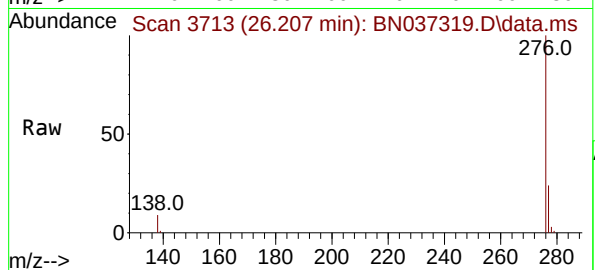
Acq: 18 Jun 2025 17:43

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



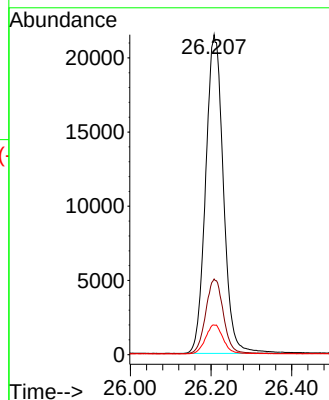
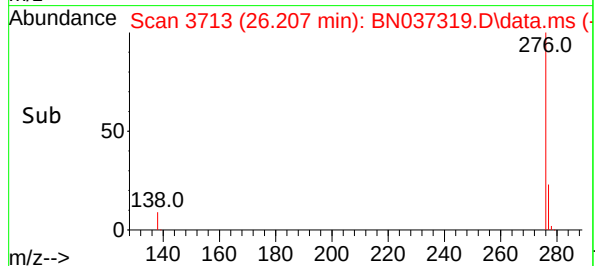
Tgt Ion:276 Resp: 65369

Ion Ratio Lower Upper

276 100

277 23.7 22.7 34.1

138 9.3 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037320.D
 Acq On : 18 Jun 2025 18:19
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN061925

Quant Time: Jun 19 02:39:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

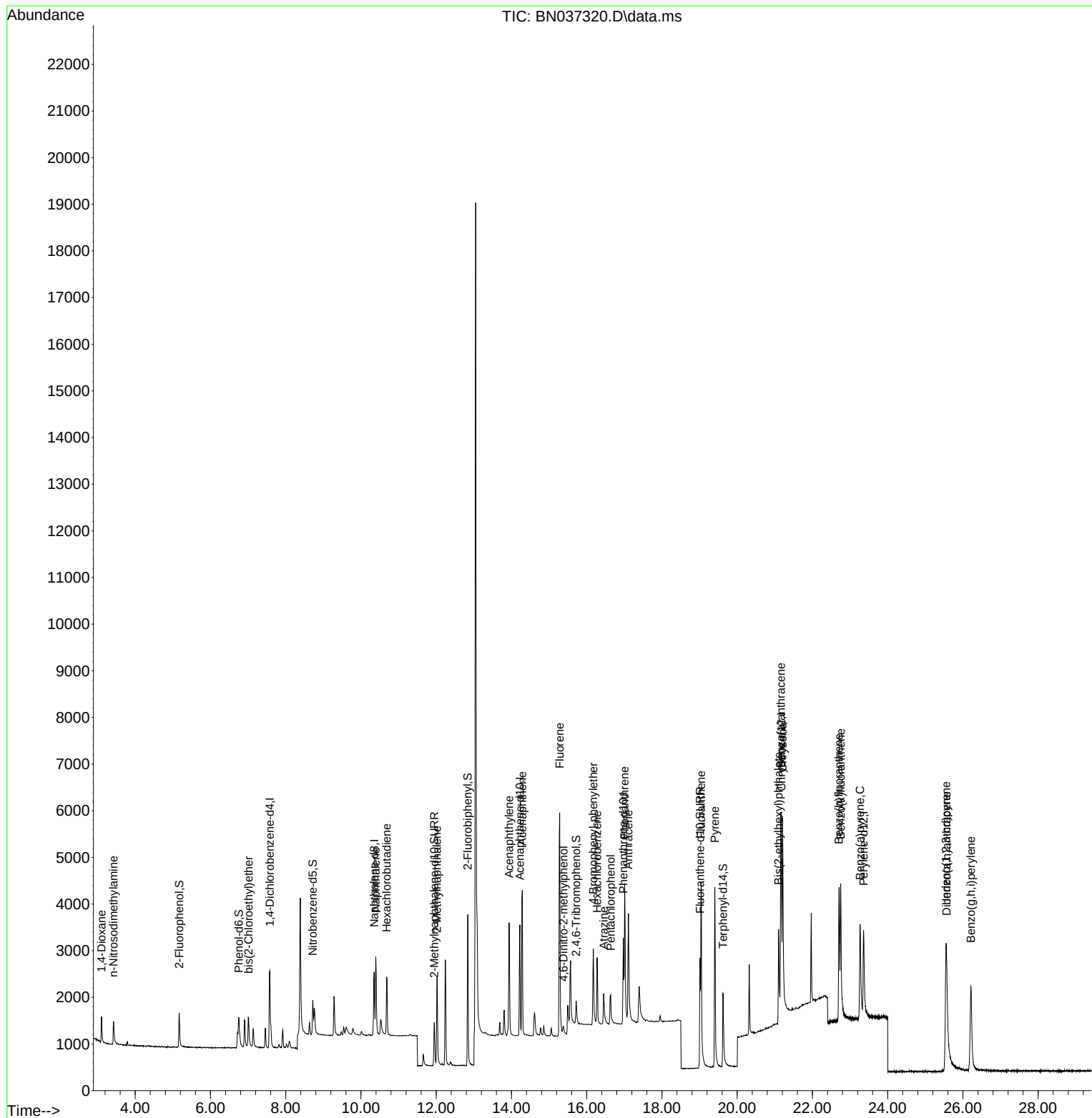
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	972	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	2132	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1447	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2959	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2769	0.400	ng	0.00
35) Perylene-d12	23.360	264	2849	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	690	0.391	ng	0.00
5) Phenol-d6	6.752	99	721	0.415	ng	0.00
8) Nitrobenzene-d5	8.717	82	752	0.423	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	1511	0.436	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	372	0.349	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	2964	0.467	ng	0.00
27) Fluoranthene-d10	19.012	212	3841	0.409	ng	0.00
31) Terphenyl-d14	19.621	244	2829	0.445	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	435	0.501	ng	Qvalue 96
3) n-Nitrosodimethylamine	3.422	42	421	0.419	ng	99
6) bis(2-Chloroethyl)ether	7.012	93	758	0.510	ng	91
9) Naphthalene	10.394	128	2354	0.427	ng	94
10) Hexachlorobutadiene	10.682	225	1074	0.385	ng	# 97
12) 2-Methylnaphthalene	12.021	142	1523	0.392	ng	96
16) Acenaphthylene	13.935	152	2862	0.470	ng	99
17) Acenaphthene	14.288	154	1697	0.420	ng	99
18) Fluorene	15.282	166	2412	0.421	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	327	0.360	ng	90
21) 4-Bromophenyl-phenylether	16.177	248	988	0.402	ng	99
22) Hexachlorobenzene	16.276	284	1117	0.434	ng	98
23) Atrazine	16.450	200	836	0.436	ng	93
24) Pentachlorophenol	16.636	266	494	0.347	ng	96
25) Phenanthrene	17.009	178	3566	0.428	ng	99
26) Anthracene	17.108	178	3369	0.431	ng	99
28) Fluoranthene	19.040	202	4533	0.392	ng	99
30) Pyrene	19.407	202	4632	0.439	ng	99
32) Benzo(a)anthracene	21.162	228	3833	0.430	ng	99
33) Chrysene	21.207	228	4589	0.403	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1570	0.429	ng	98
36) Indeno(1,2,3-cd)pyrene	25.550	276	5140	0.429	ng	# 96
37) Benzo(b)fluoranthene	22.705	252	3877	0.390	ng	95
38) Benzo(k)fluoranthene	22.752	252	4702	0.430	ng	97
39) Benzo(a)pyrene	23.266	252	4154	0.451	ng	97
40) Dibenzo(a,h)anthracene	25.567	278	3885	0.404	ng	91
41) Benzo(g,h,i)perylene	26.213	276	4528	0.412	ng	98

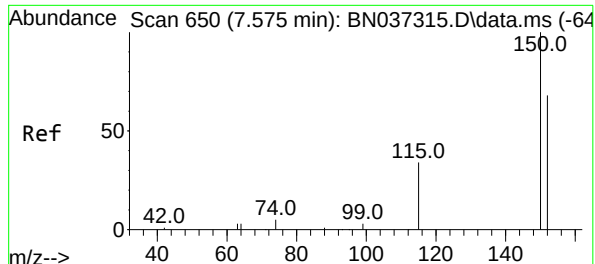
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037320.D
Acq On : 18 Jun 2025 18:19
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061925

Quant Time: Jun 19 02:39:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

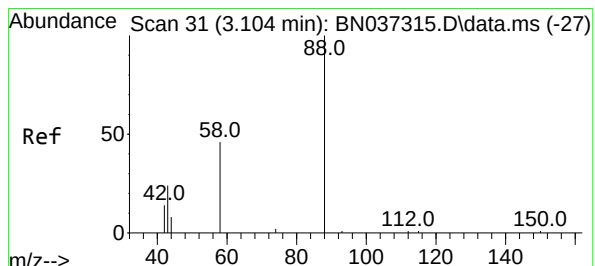
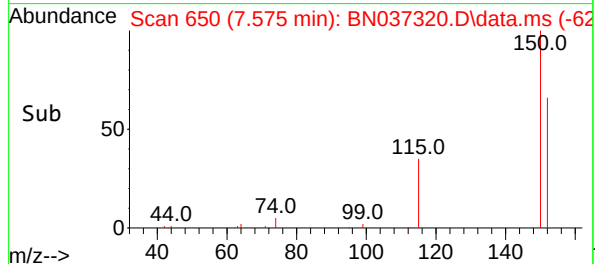
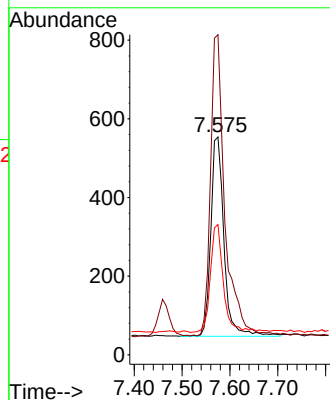
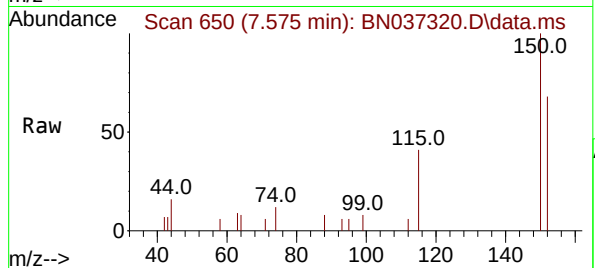




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

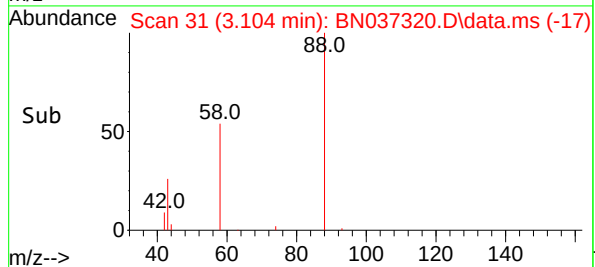
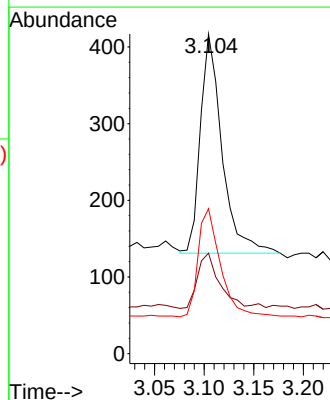
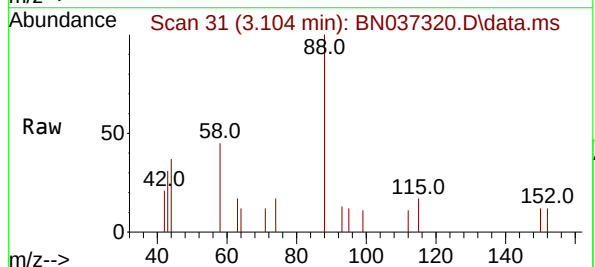
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

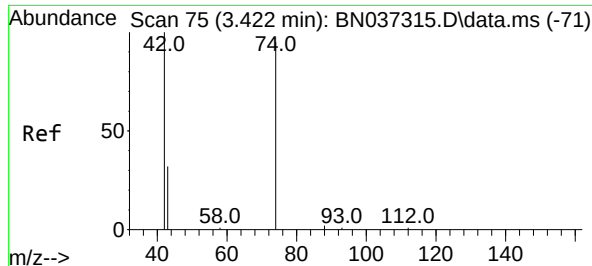
Tgt Ion:152 Resp: 972
Ion Ratio Lower Upper
152 100
150 146.9 112.7 169.1
115 59.7 45.9 68.9



#2
1,4-Dioxane
Concen: 0.501 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion: 88 Resp: 435
Ion Ratio Lower Upper
88 100
43 25.7 21.0 31.6
58 50.8 38.0 57.0

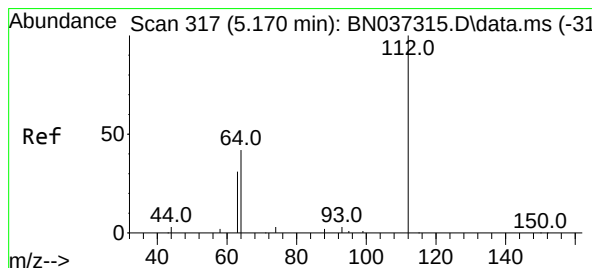
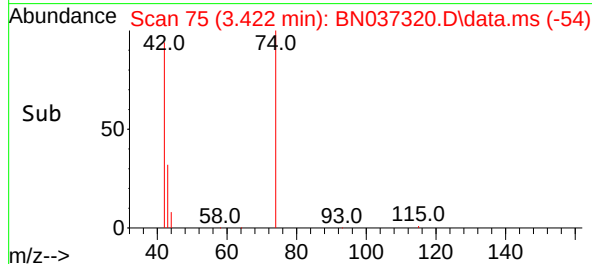
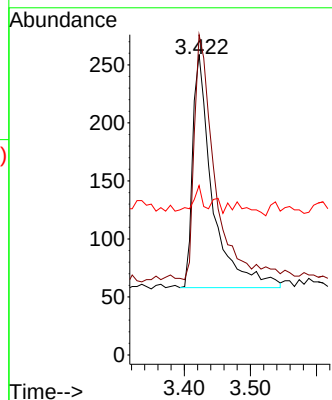
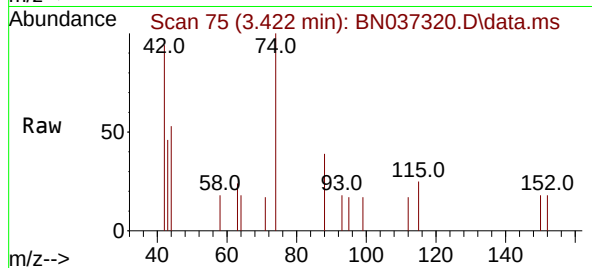




#3
n-Nitrosodimethylamine
Concen: 0.419 ng
RT: 3.422 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

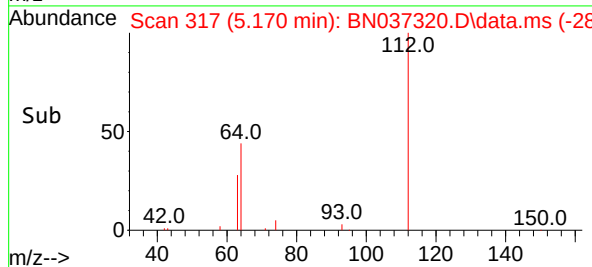
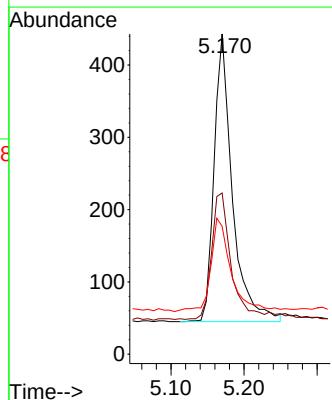
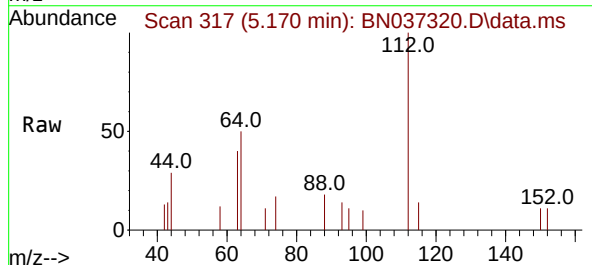
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

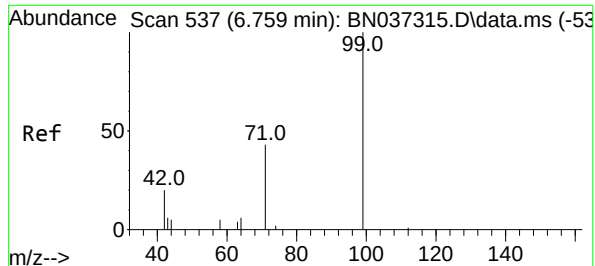
Tgt Ion: 42 Resp: 421
Ion Ratio Lower Upper
42 100
74 106.7 84.3 126.5
44 5.7 5.0 7.4



#4
2-Fluorophenol
Concen: 0.391 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion: 112 Resp: 690
Ion Ratio Lower Upper
112 100
64 46.7 38.7 58.1
63 36.2 26.4 39.6

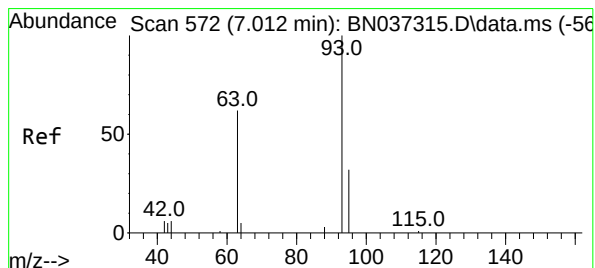
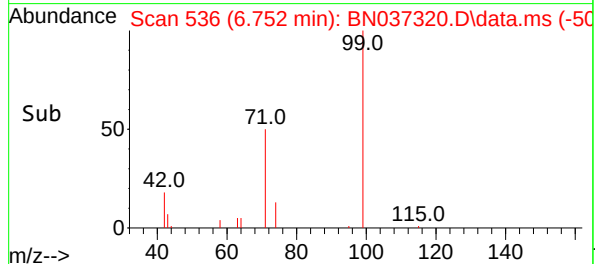
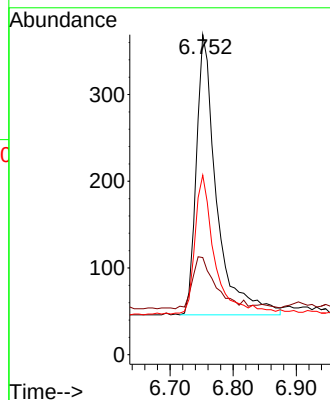
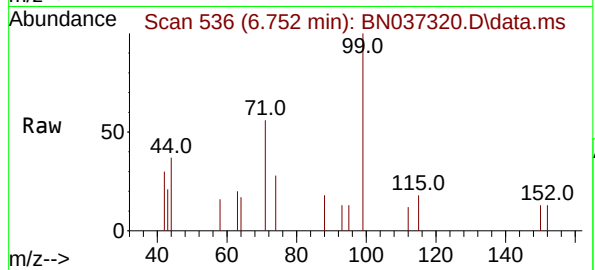




#5
Phenol-d6
Concen: 0.415 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

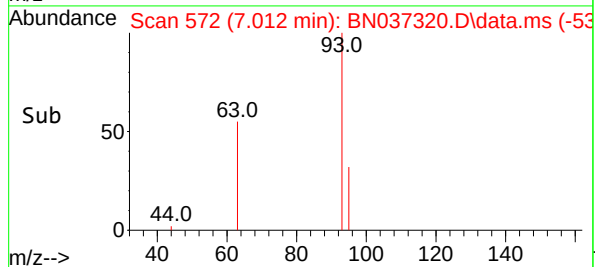
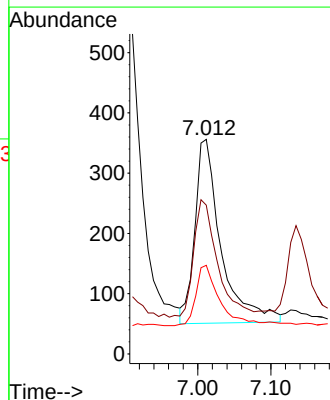
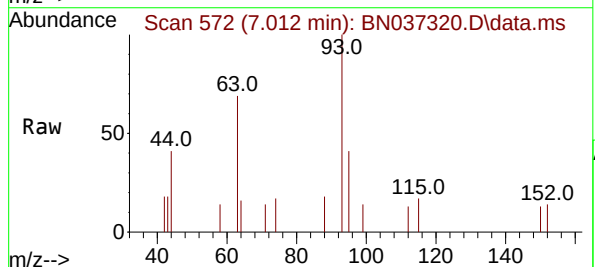
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

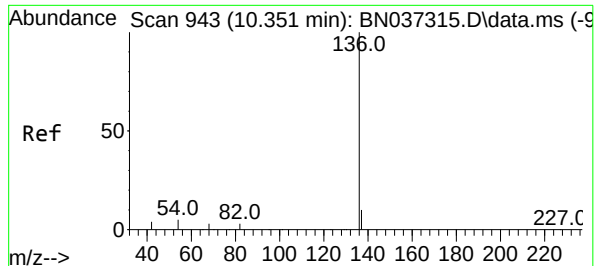
Tgt Ion: 99 Resp: 721
Ion Ratio Lower Upper
99 100
42 21.6 19.8 29.8
71 49.0 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.510 ng
RT: 7.012 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion: 93 Resp: 758
Ion Ratio Lower Upper
93 100
63 58.7 53.2 79.8
95 29.3 27.3 40.9

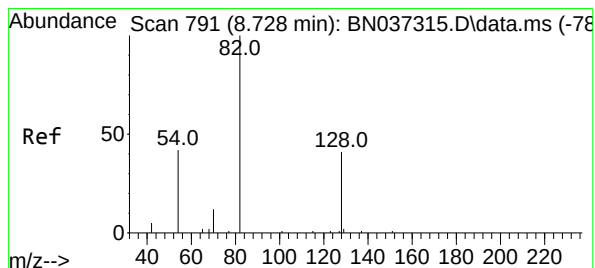
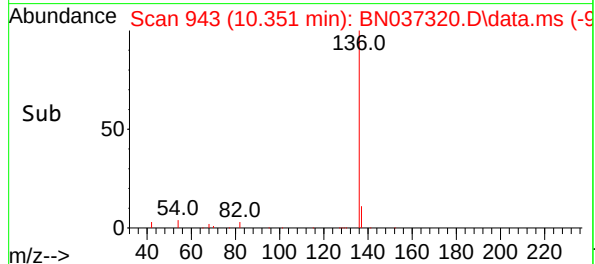
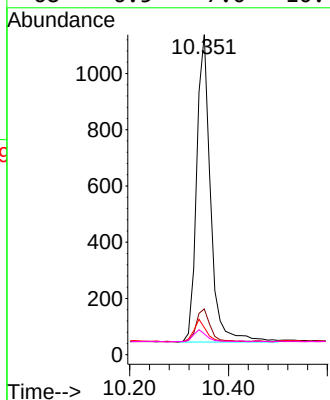
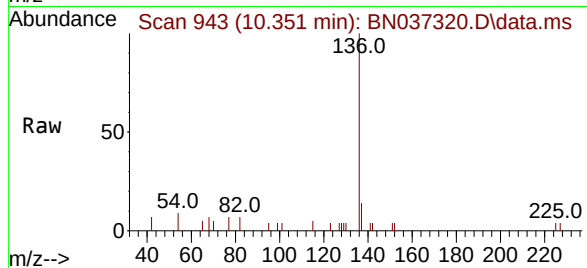




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

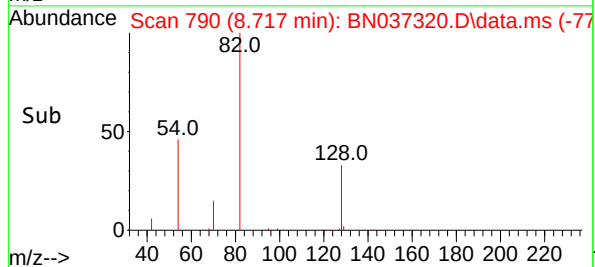
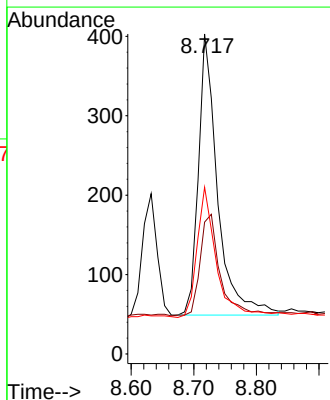
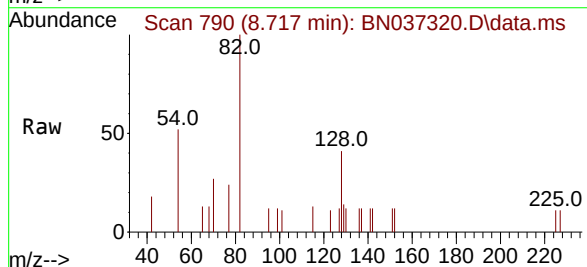
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

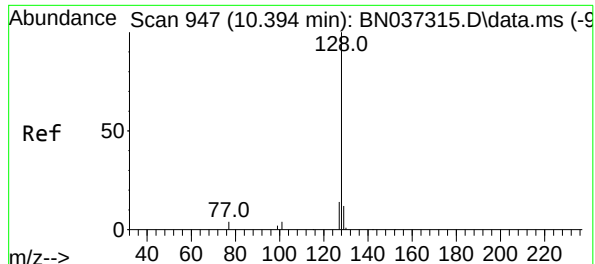
Tgt Ion:	136	Resp:	2132
Ion	Ratio	Lower	Upper
136	100		
137	14.3	12.2	18.2
54	8.5	8.8	13.2#
68	6.5	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.423 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion:	82	Resp:	752
Ion	Ratio	Lower	Upper
82	100		
128	41.2	42.5	63.7#
54	52.1	43.2	64.8

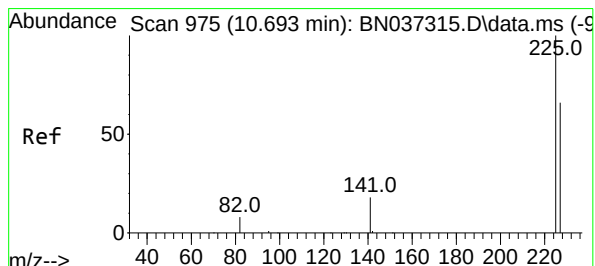
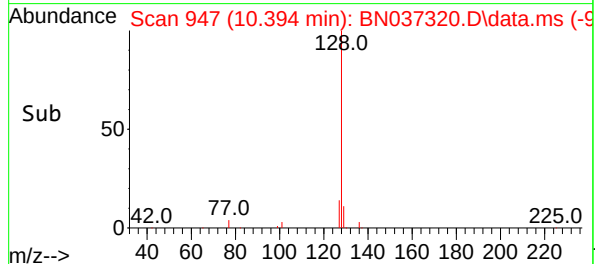
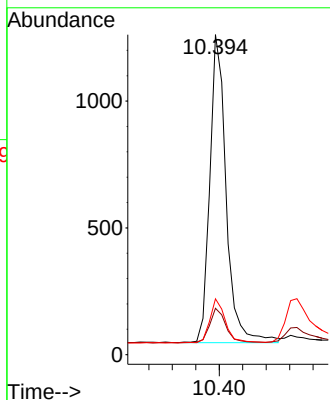
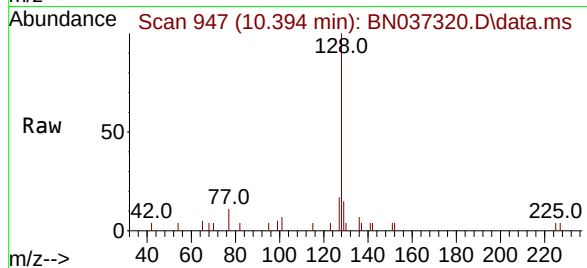




#9
Naphthalene
Concen: 0.427 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

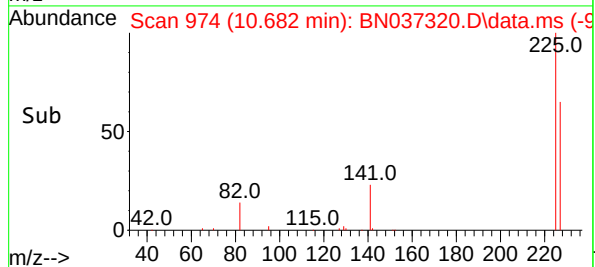
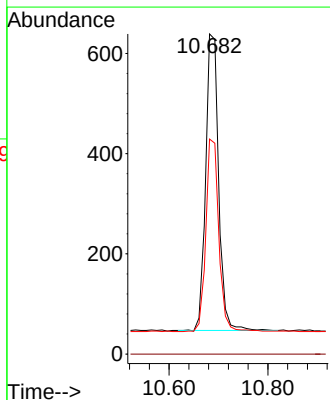
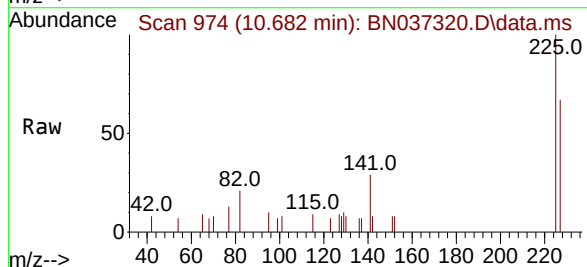
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

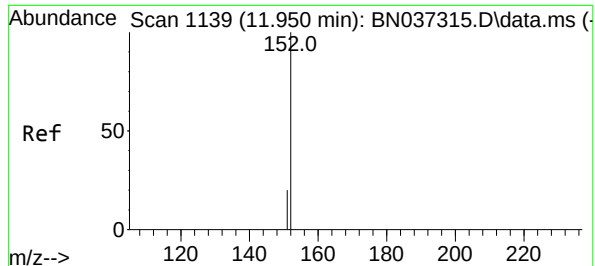
Tgt Ion:	128	Resp:	2354
Ion	Ratio	Lower	Upper
128	100		
129	14.5	14.0	21.0
127	17.4	15.8	23.8



#10
Hexachlorobutadiene
Concen: 0.385 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion:	225	Resp:	1074
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.4	50.3	75.5

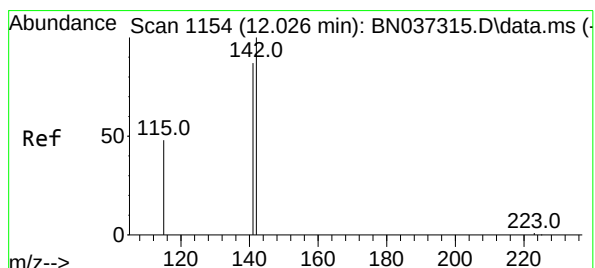
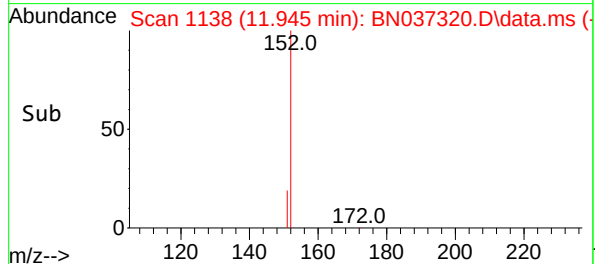
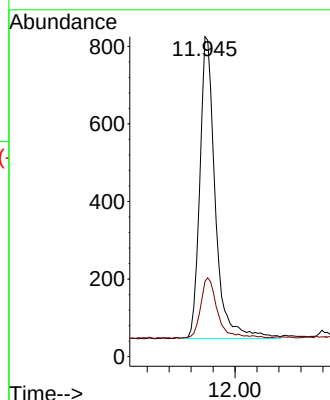
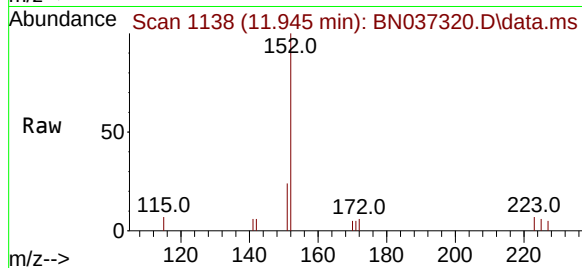




#11
2-Methylnaphthalene-d10
Concen: 0.436 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

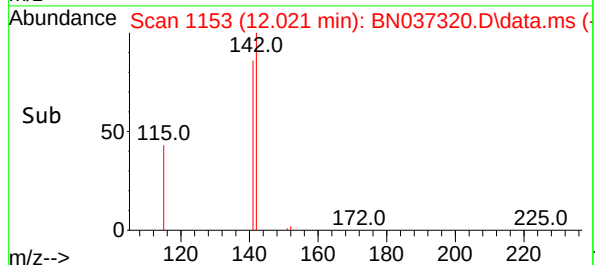
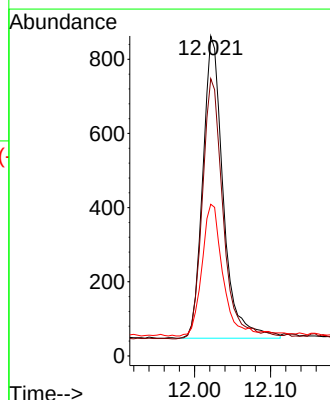
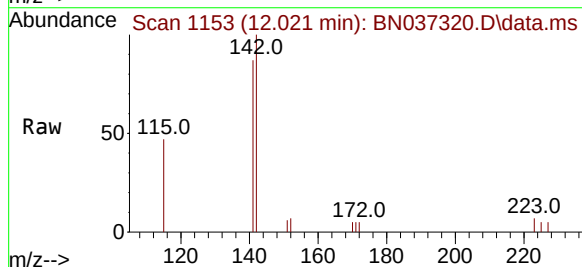
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

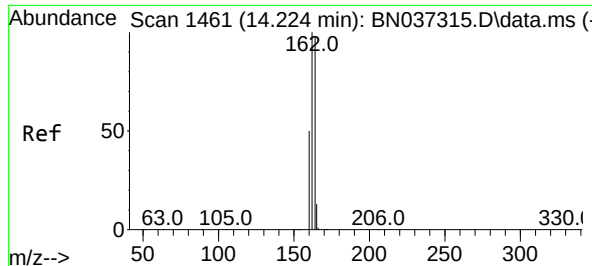
Tgt Ion:152 Resp: 1511
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.392 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion:142 Resp: 1523
Ion Ratio Lower Upper
142 100
141 86.7 70.2 105.2
115 47.4 43.0 64.4

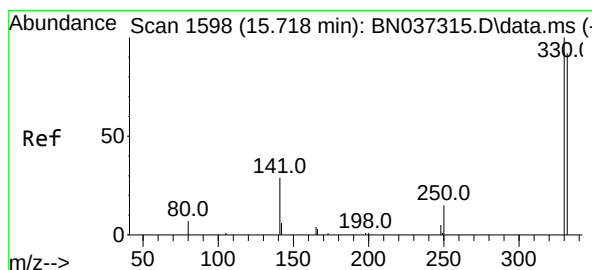
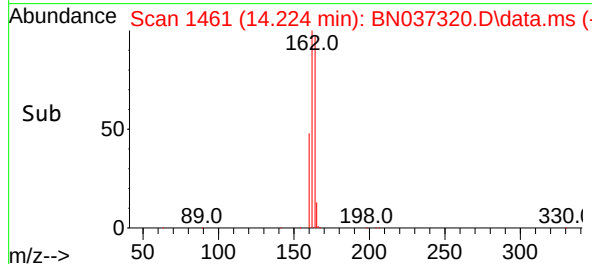
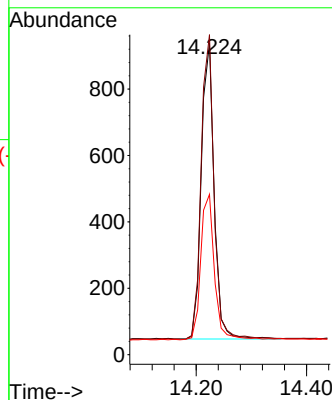
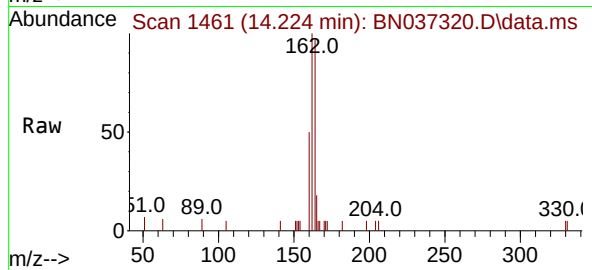




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

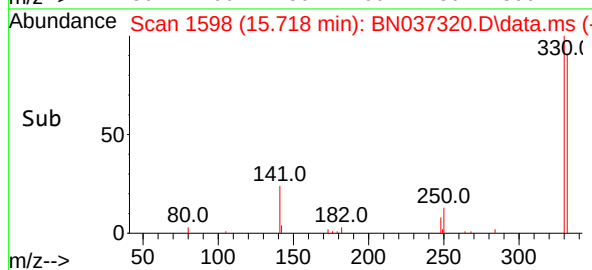
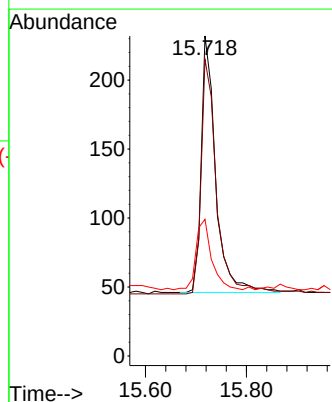
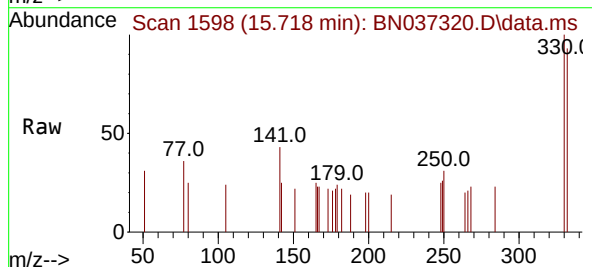
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

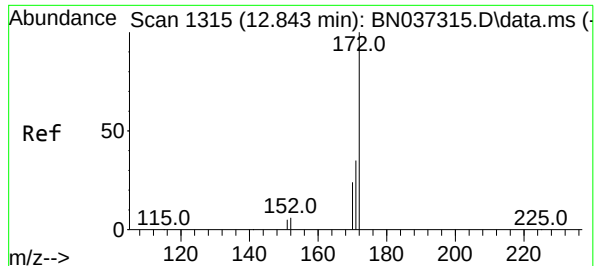
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.8	81.5	122.3
160	51.5	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.349 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.4	117.6
141	29.6	24.4	36.6

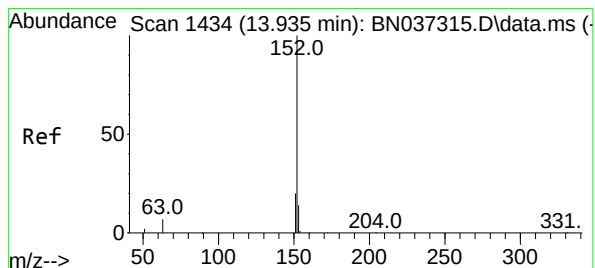
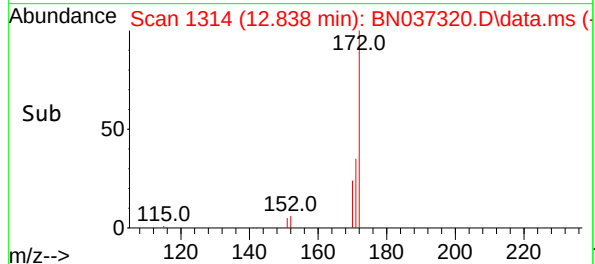
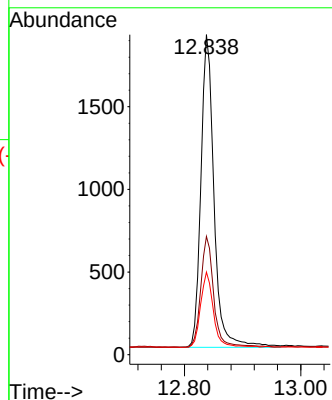
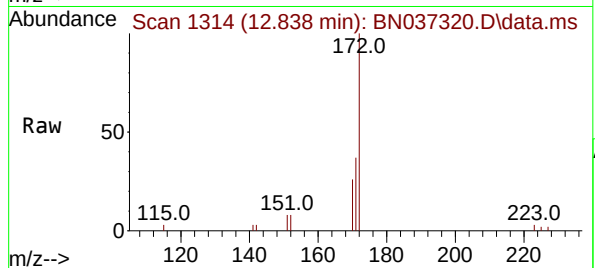




#15
2-Fluorobiphenyl
Concen: 0.467 ng
RT: 12.838 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

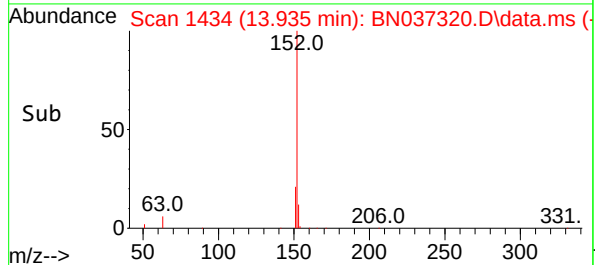
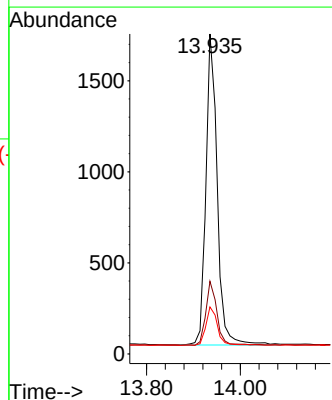
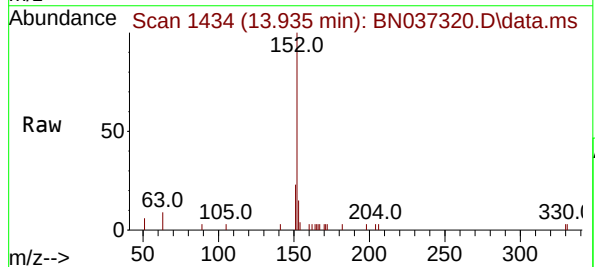
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

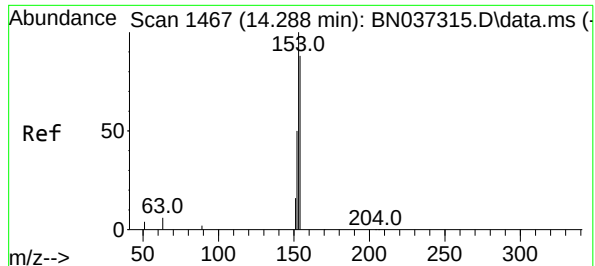
Tgt Ion:	172	Resp:	2964
Ion Ratio	Lower	Upper	
172	100		
171	36.9	30.8	46.2
170	25.8	21.9	32.9



#16
Acenaphthylene
Concen: 0.470 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion:	152	Resp:	2862
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.6	24.8
153	12.8	10.2	15.2

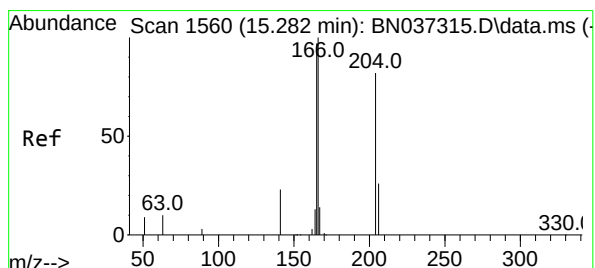
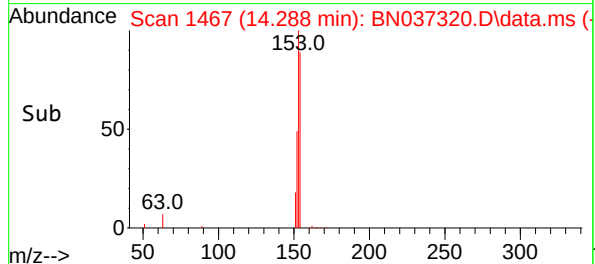
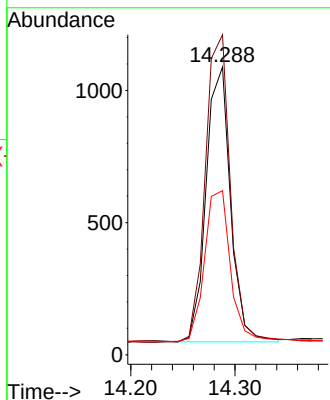
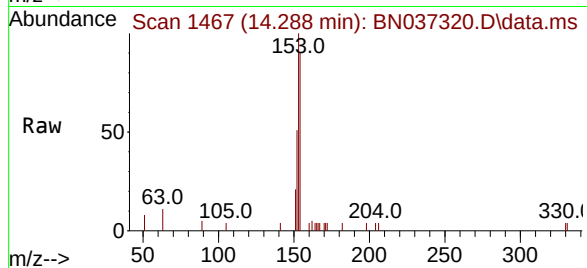




#17
Acenaphthene
Concen: 0.420 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

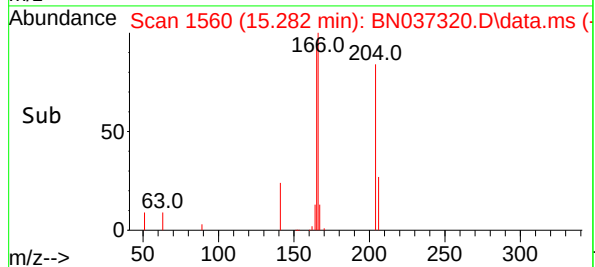
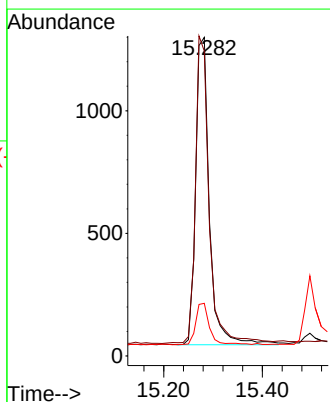
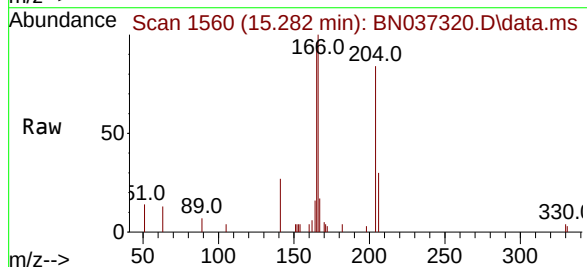
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

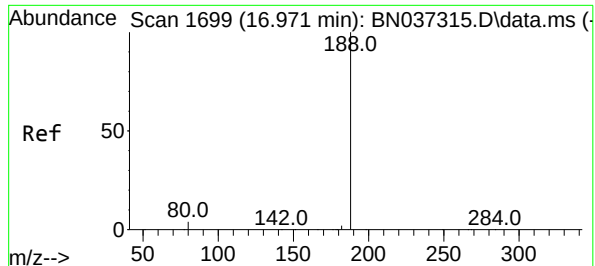
Tgt Ion:154 Resp: 1697
Ion Ratio Lower Upper
154 100
153 116.8 93.1 139.7
152 58.9 48.6 73.0



#18
Fluorene
Concen: 0.421 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion:166 Resp: 2412
Ion Ratio Lower Upper
166 100
165 99.0 79.5 119.3
167 13.5 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: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

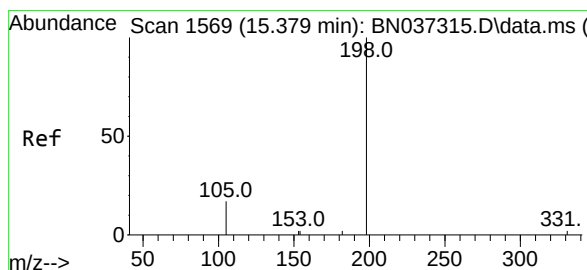
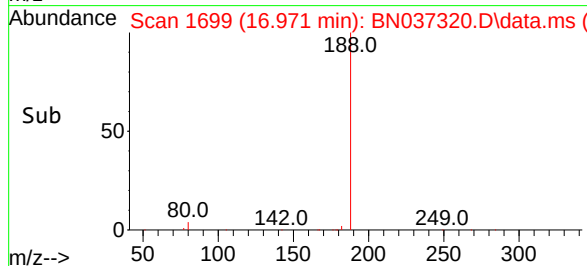
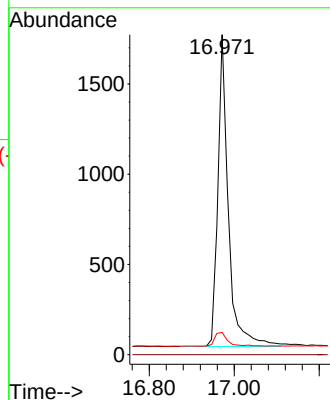
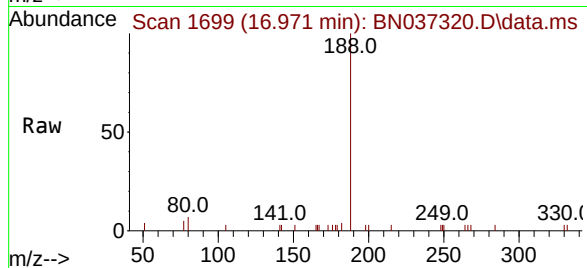
Tgt Ion:188 Resp: 2959

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: 0.360 ng

RT: 15.378 min Scan# 1569

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

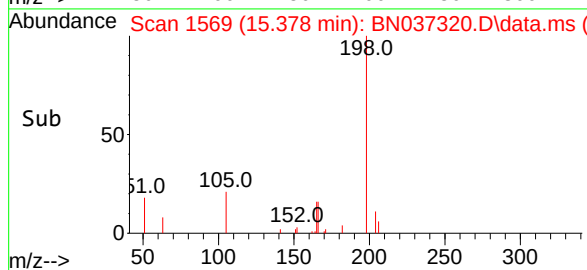
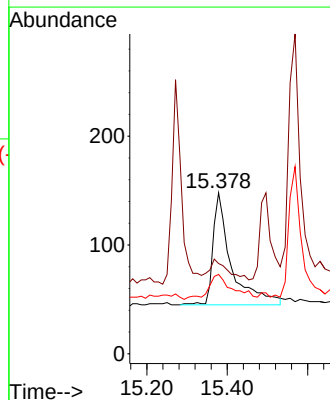
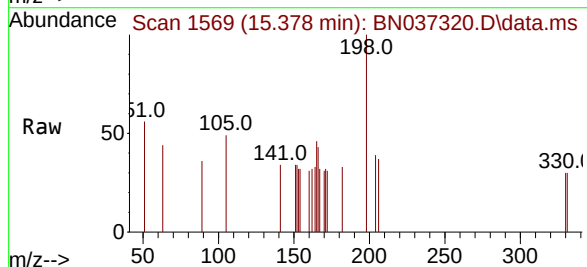
Tgt Ion:198 Resp: 327

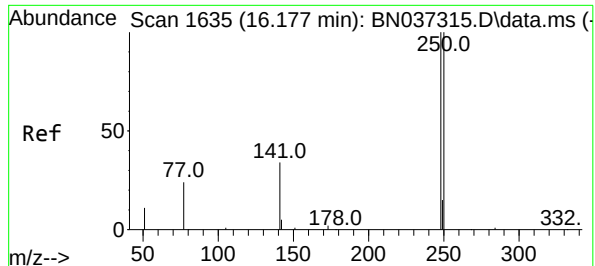
Ion Ratio Lower Upper

198 100

51 56.1 51.4 77.0

105 49.3 45.5 68.3

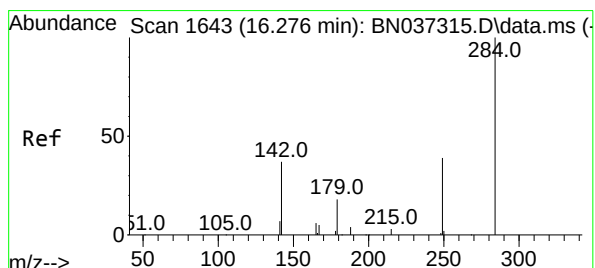
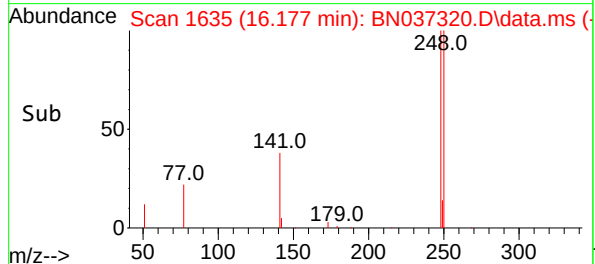
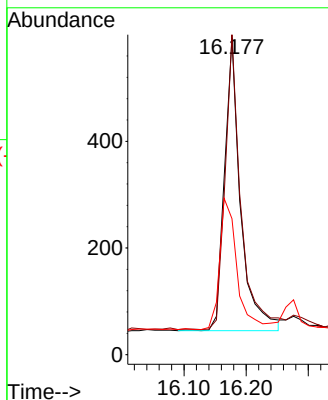
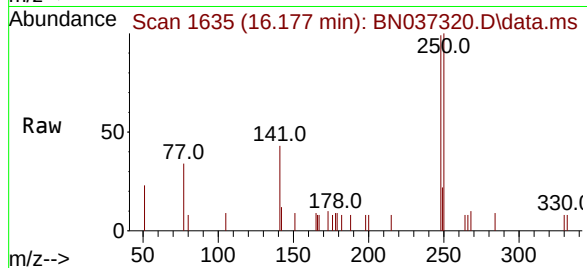




#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

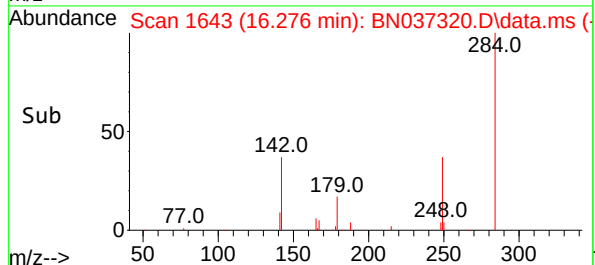
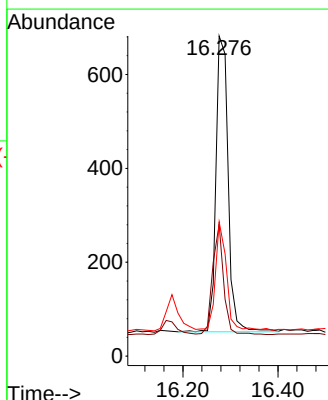
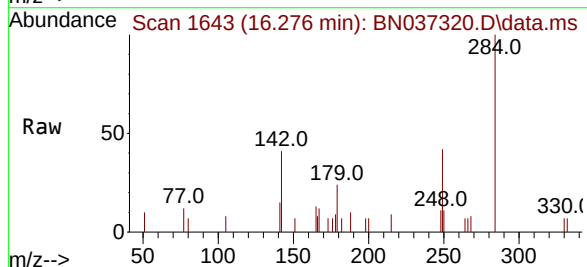
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

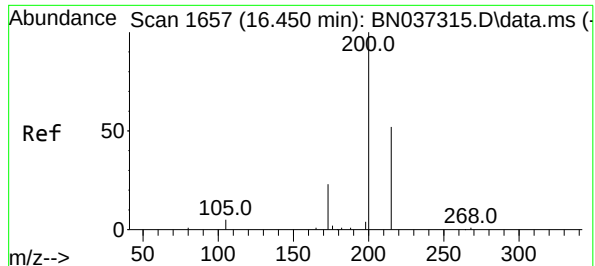
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.0	80.4	120.6
141	42.9	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.434 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.8	27.0	40.6
249	34.0	28.8	43.2





#23

Atrazine

Concen: 0.436 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

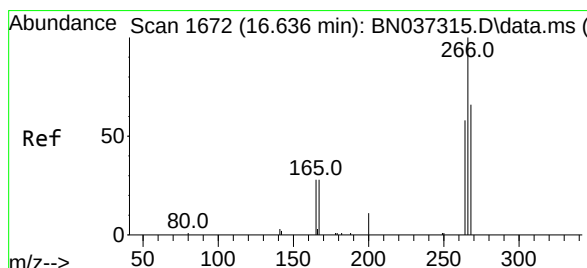
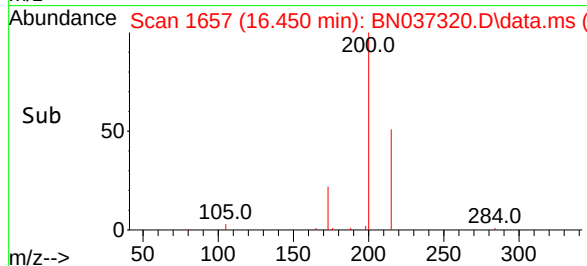
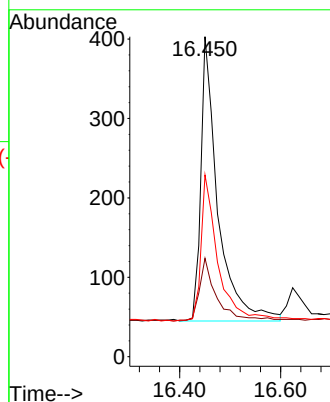
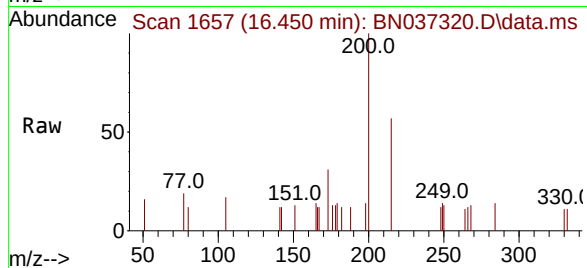
Tgt Ion:200 Resp: 836

Ion Ratio Lower Upper

200 100

173 30.8 29.2 43.8

215 56.8 48.8 73.2



#24

Pentachlorophenol

Concen: 0.347 ng

RT: 16.636 min Scan# 1672

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

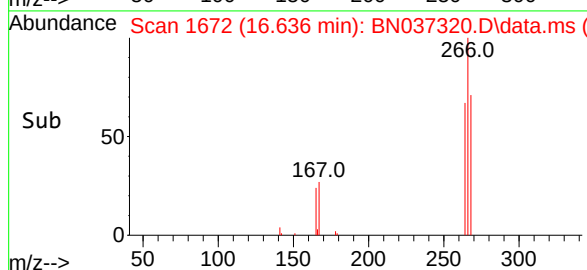
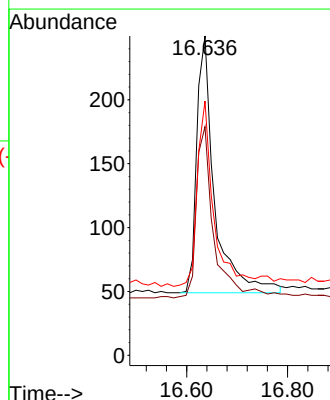
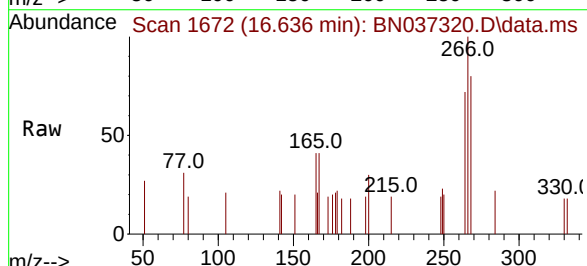
Tgt Ion:266 Resp: 494

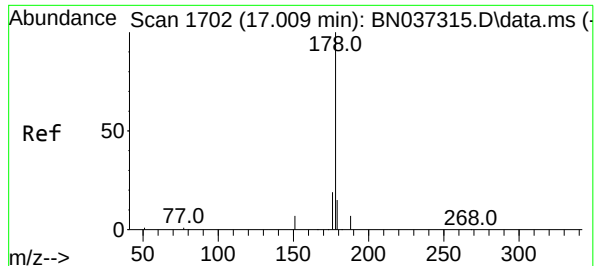
Ion Ratio Lower Upper

266 100

264 65.8 50.3 75.5

268 66.2 55.3 82.9

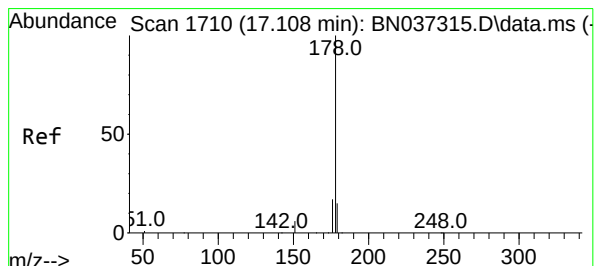
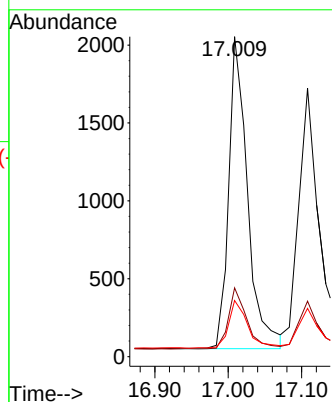
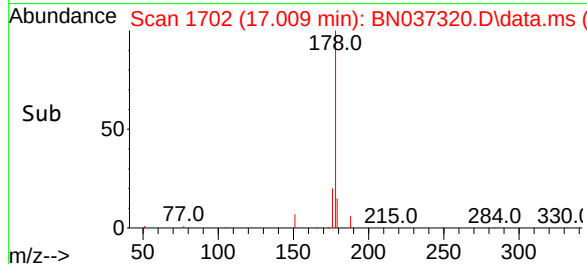
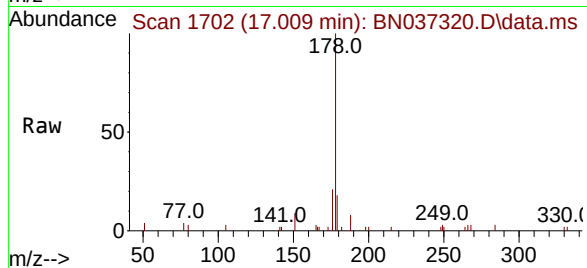




#25
Phenanthrene
Concen: 0.428 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

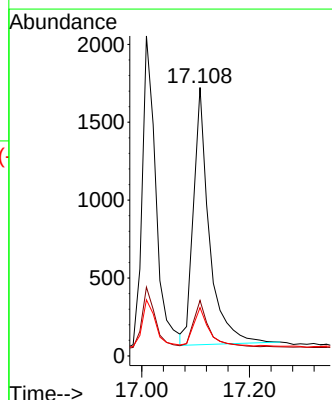
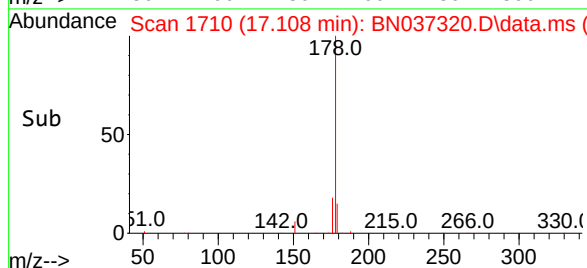
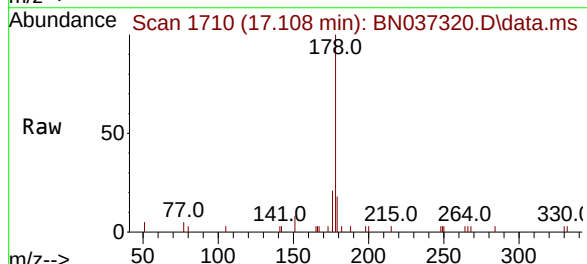
Instrument :
BNA_N
ClientSampleId :
ICVBN061925

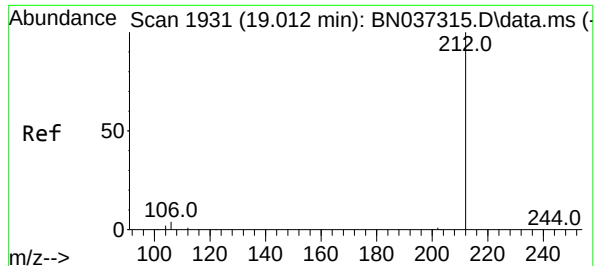
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.7	12.9	19.3



#26
Anthracene
Concen: 0.431 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037320.D
Acq: 18 Jun 2025 18:19

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





#27

Fluoranthene-d10

Concen: 0.409 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

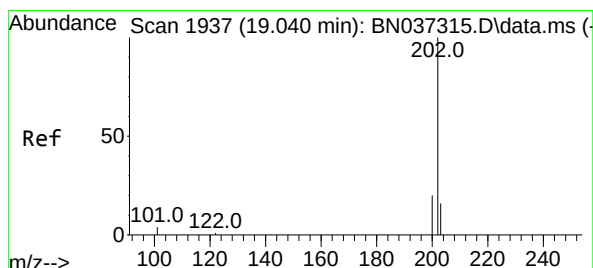
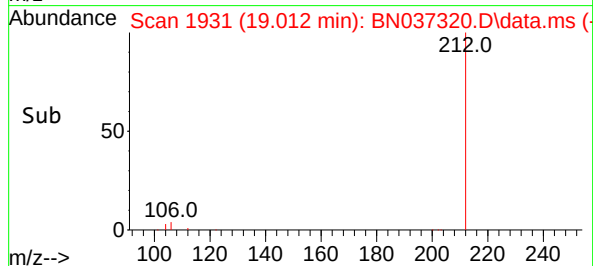
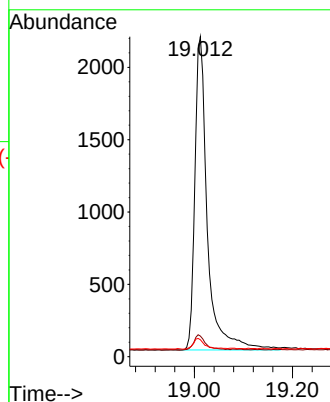
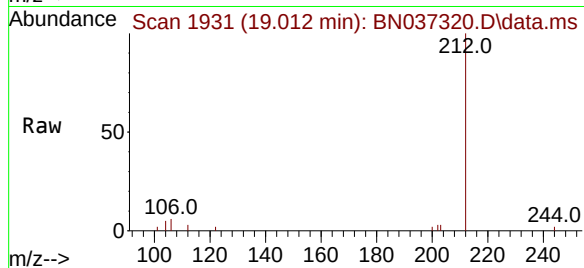
Tgt Ion:212 Resp: 3841

Ion Ratio Lower Upper

212 100

106 4.7 3.0 4.4#

104 3.3 2.0 3.0#



#28

Fluoranthene

Concen: 0.392 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

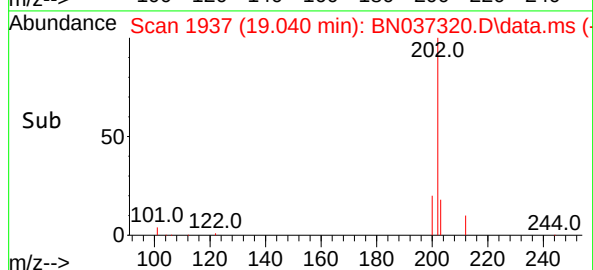
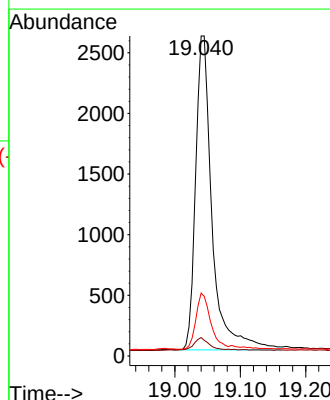
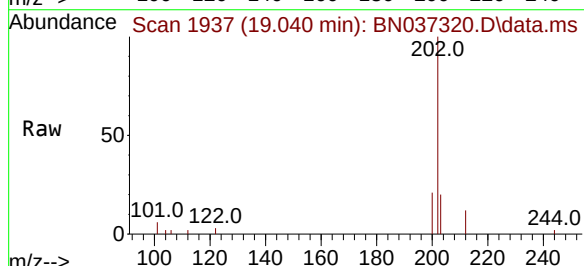
Tgt Ion:202 Resp: 4533

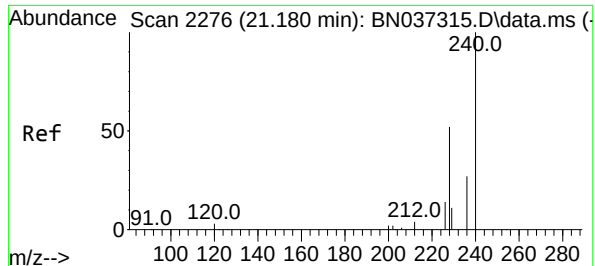
Ion Ratio Lower Upper

202 100

101 4.1 3.0 4.6

203 16.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

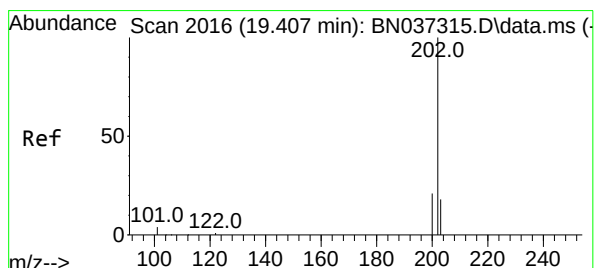
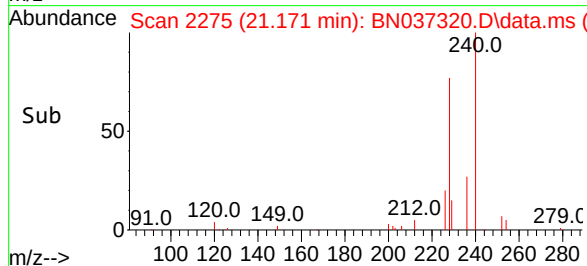
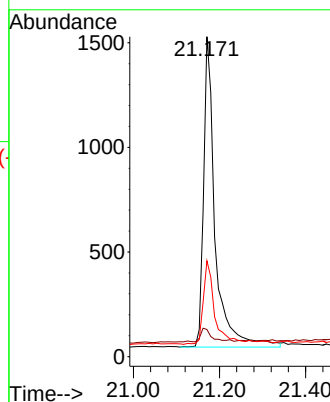
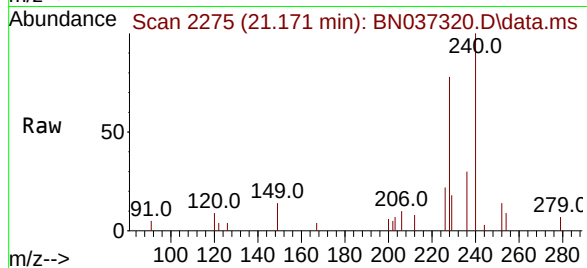
Tgt Ion:240 Resp: 2769

Ion Ratio Lower Upper

240 100

120 8.5 7.5 11.3

236 30.0 24.9 37.3



#30

Pyrene

Concen: 0.439 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

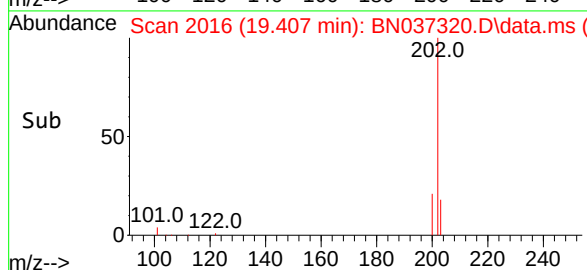
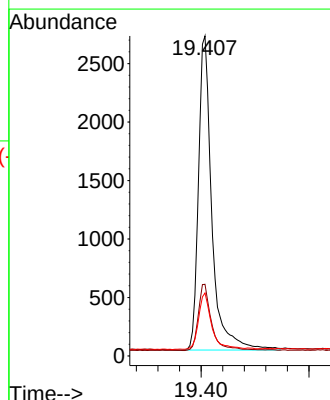
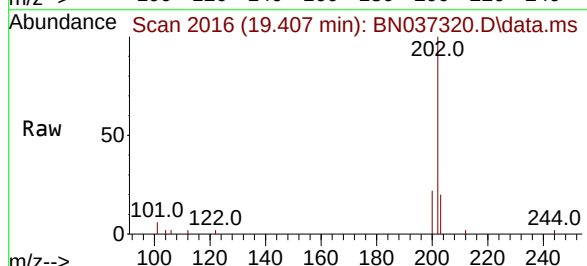
Tgt Ion:202 Resp: 4632

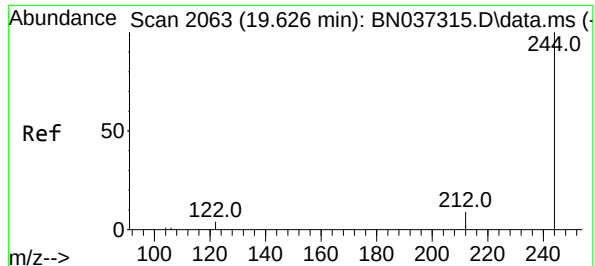
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 17.7 14.5 21.7





#31

Terphenyl-d14

Concen: 0.445 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.005 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

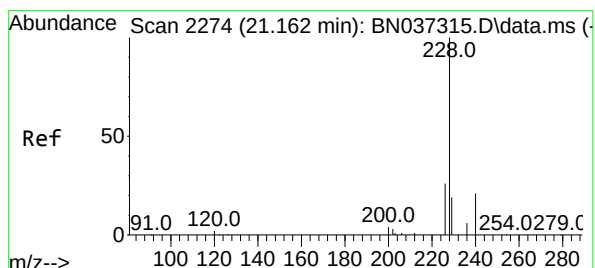
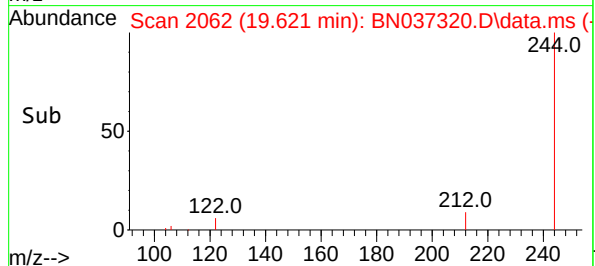
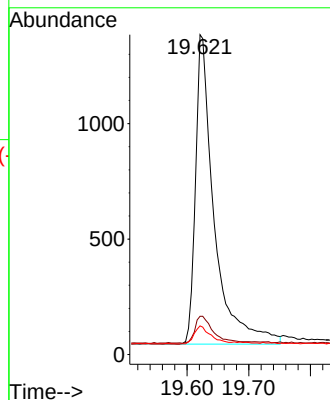
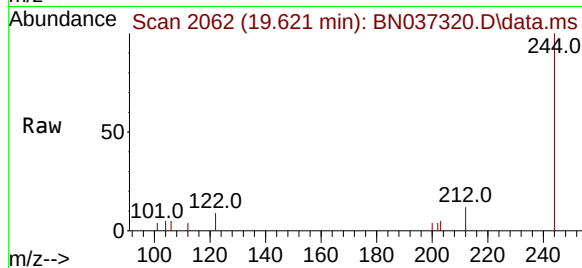
Tgt Ion:244 Resp: 2829

Ion Ratio Lower Upper

244 100

212 12.0 11.1 16.7

122 9.0 7.2 10.8



#32

Benzo(a)anthracene

Concen: 0.430 ng

RT: 21.162 min Scan# 2274

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

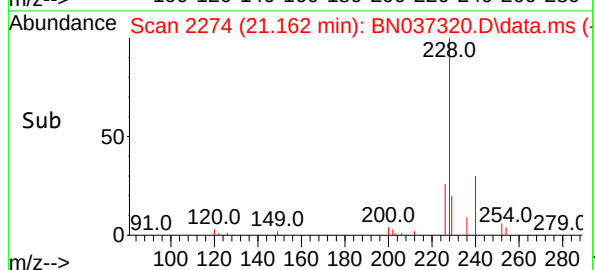
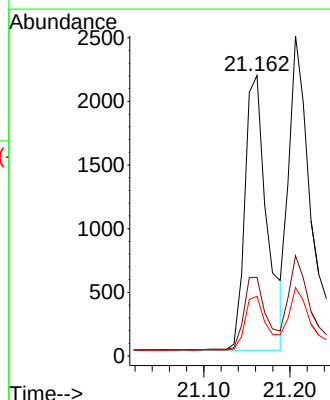
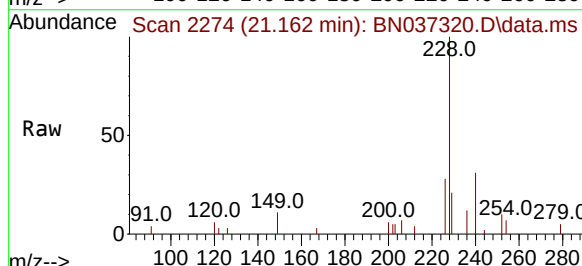
Tgt Ion:228 Resp: 3833

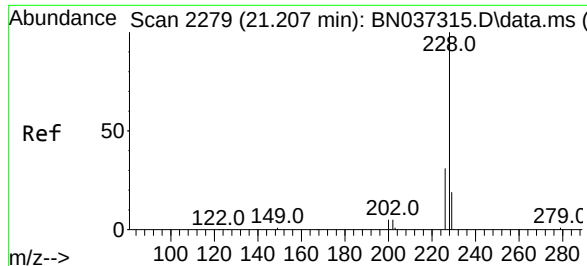
Ion Ratio Lower Upper

228 100

226 28.0 23.0 34.4

229 21.3 17.4 26.0





#33

Chrysene

Concen: 0.403 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

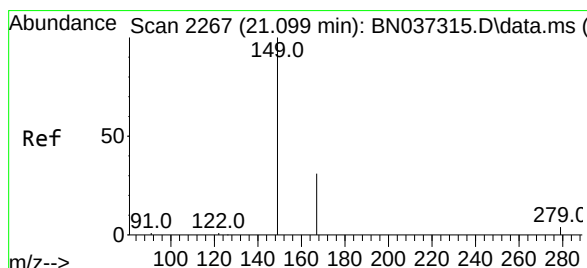
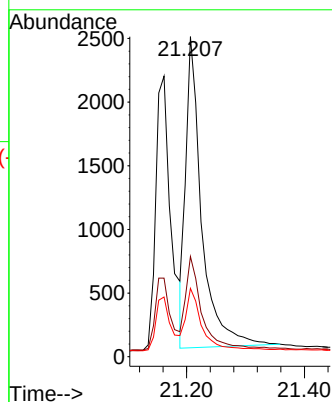
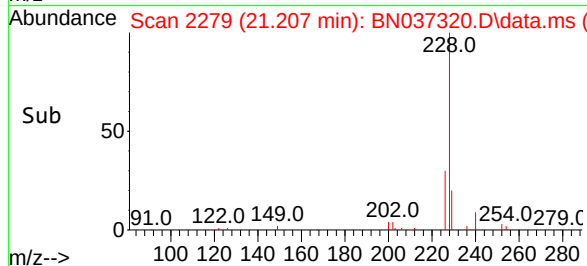
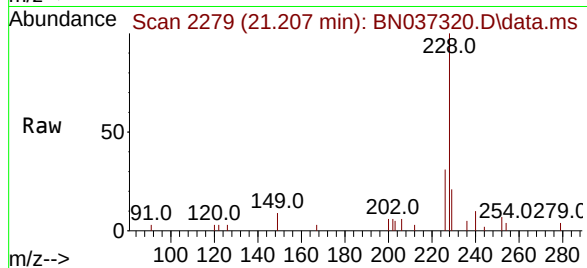
Tgt Ion:228 Resp: 4589

Ion Ratio Lower Upper

228 100

226 31.3 25.4 38.2

229 21.4 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.429 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

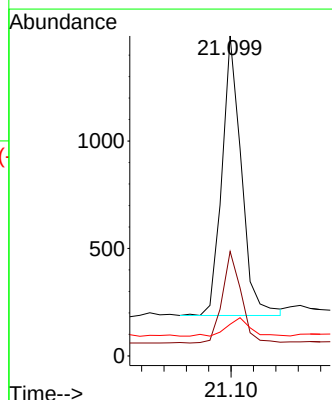
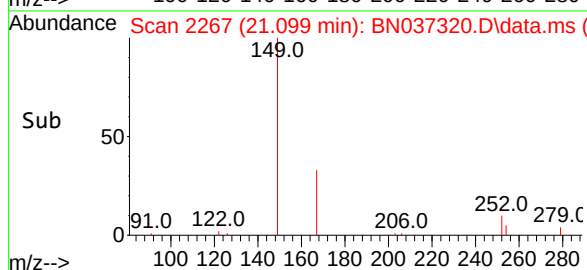
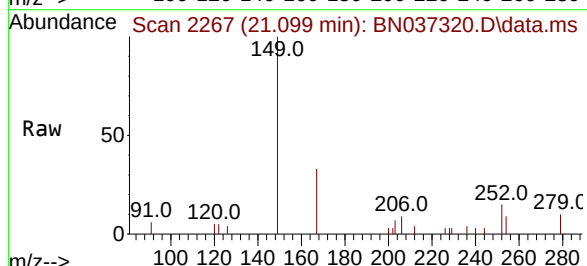
Tgt Ion:149 Resp: 1570

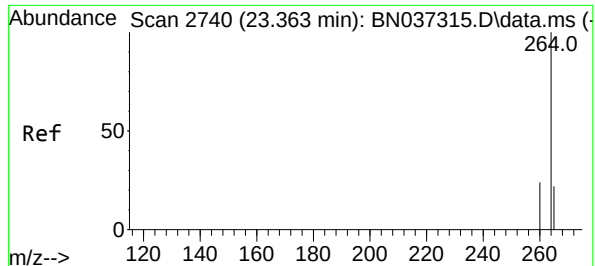
Ion Ratio Lower Upper

149 100

167 31.9 24.6 37.0

279 7.7 6.5 9.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

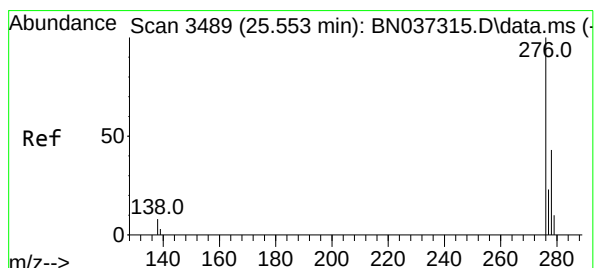
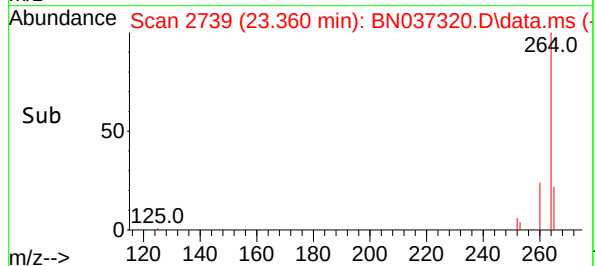
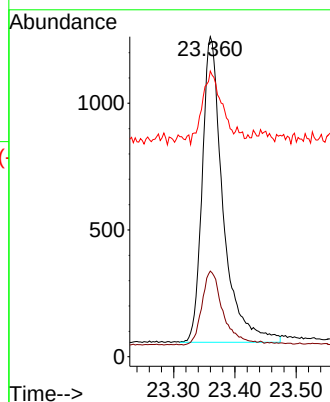
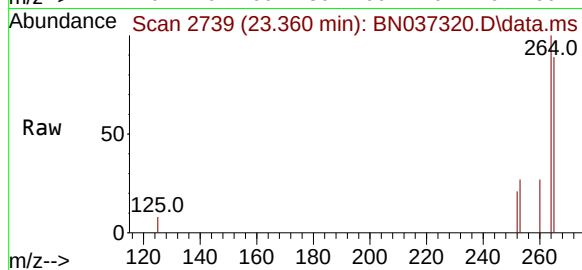
Tgt Ion:264 Resp: 2849

Ion Ratio Lower Upper

264 100

260 26.8 21.4 32.2

265 89.2 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.429 ng

RT: 25.550 min Scan# 3488

Delta R.T. -0.003 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

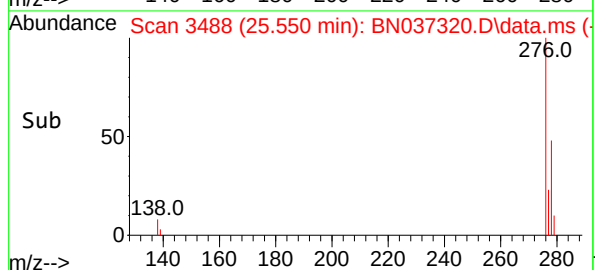
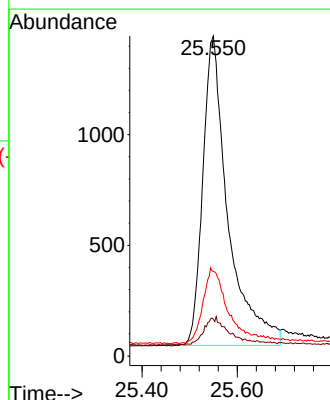
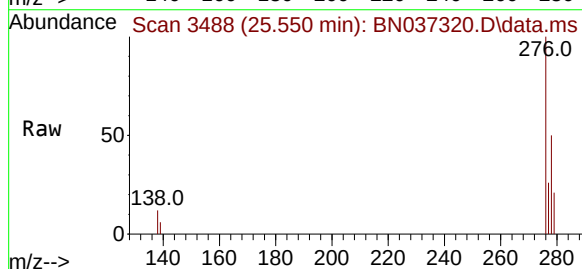
Tgt Ion:276 Resp: 5140

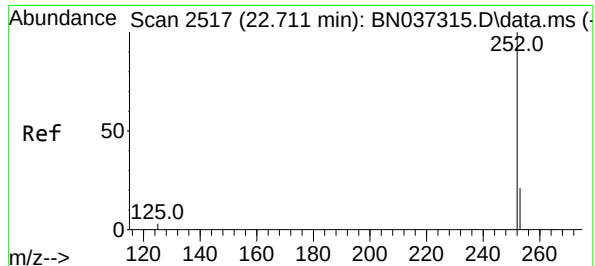
Ion Ratio Lower Upper

276 100

138 3.9 2.2 3.2#

277 23.3 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.390 ng

RT: 22.705 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

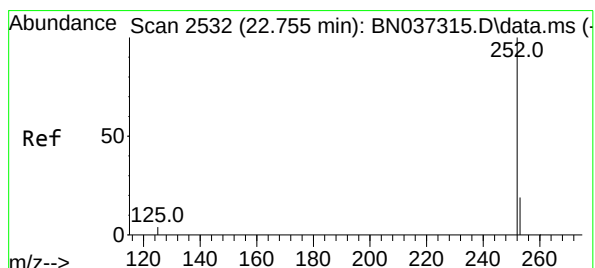
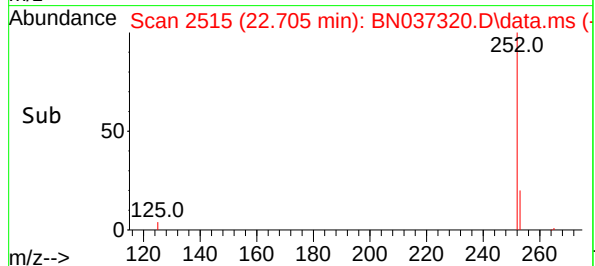
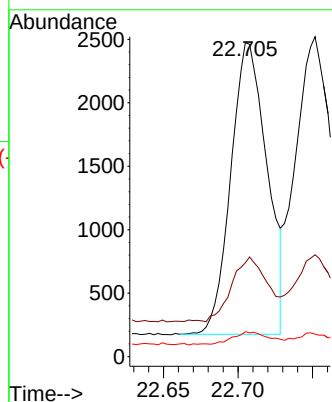
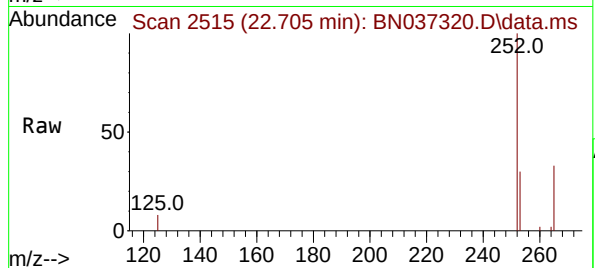
Tgt Ion:252 Resp: 3877

Ion Ratio Lower Upper

252 100

253 29.9 26.6 40.0

125 7.9 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 0.430 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

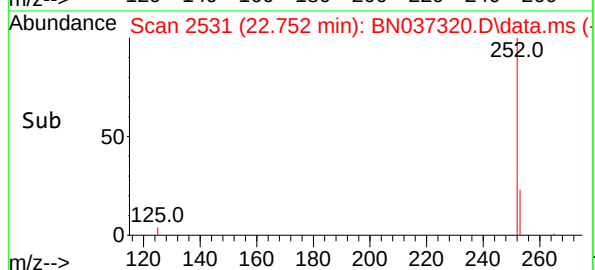
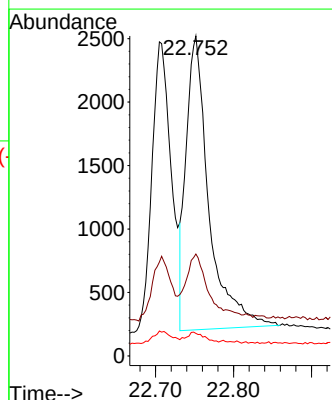
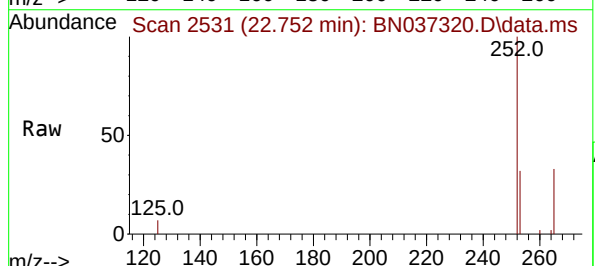
Tgt Ion:252 Resp: 4702

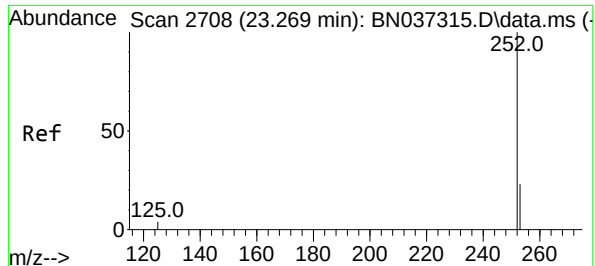
Ion Ratio Lower Upper

252 100

253 31.9 26.7 40.1

125 7.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.451 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925

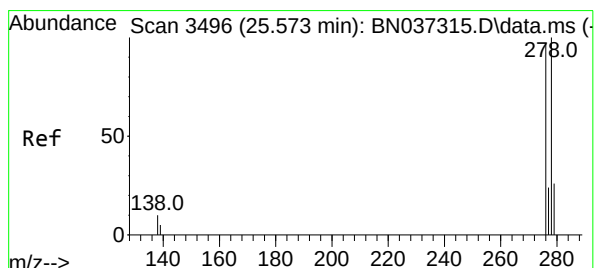
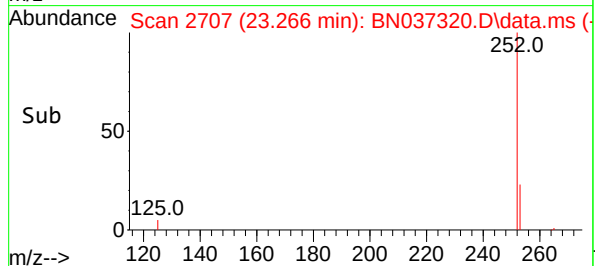
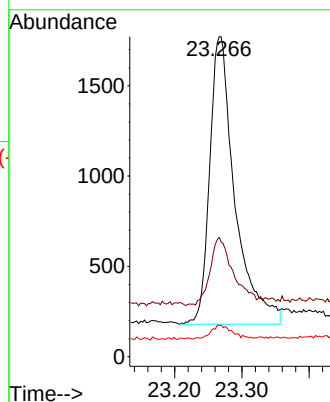
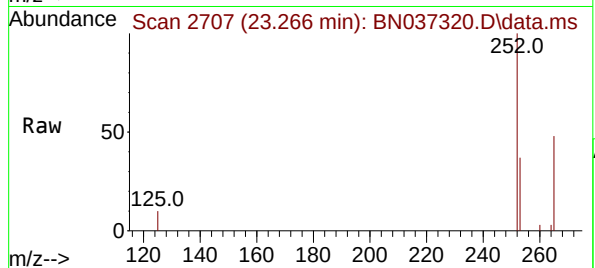
Tgt Ion:252 Resp: 4154

Ion Ratio Lower Upper

252 100

253 37.2 31.6 47.4

125 9.8 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.404 ng

RT: 25.567 min Scan# 3494

Delta R.T. -0.006 min

Lab File: BN037320.D

Acq: 18 Jun 2025 18:19

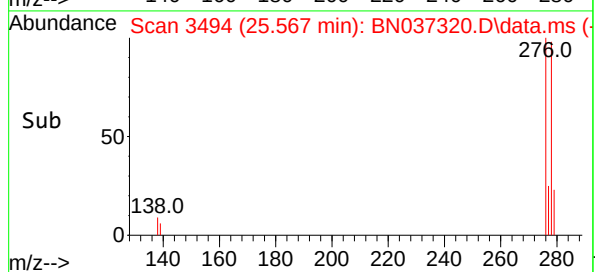
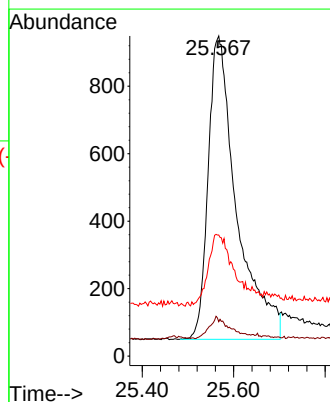
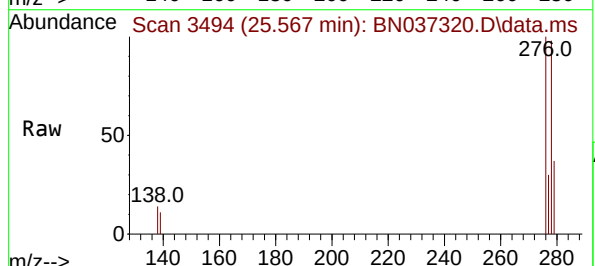
Tgt Ion:278 Resp: 3885

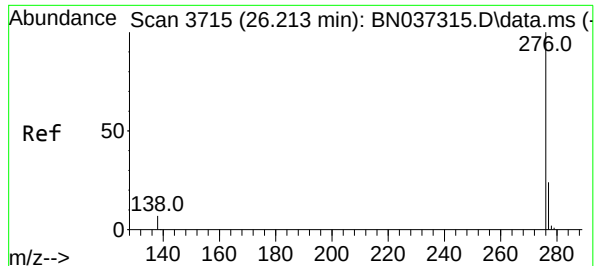
Ion Ratio Lower Upper

278 100

139 10.7 10.2 15.4

279 37.8 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 26.213 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037320.D

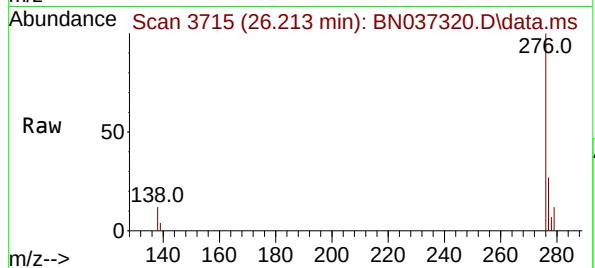
Acq: 18 Jun 2025 18:19

Instrument :

BNA_N

ClientSampleId :

ICVBN061925



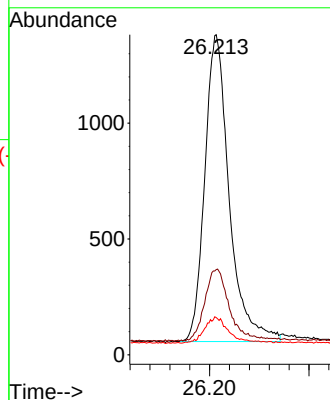
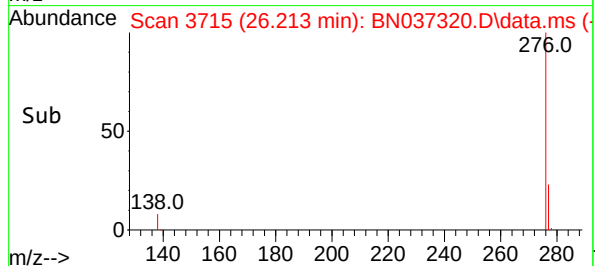
Tgt Ion:276 Resp: 4528

Ion Ratio Lower Upper

276 100

277 26.6 22.7 34.1

138 11.6 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037320.D
Acq On : 18 Jun 2025 18:19
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061925

Quant Time: Jun 19 02:39:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 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	151#	0.00
2	1,4-Dioxane	0.357	0.448	-25.5#	168#	0.00
3	n-Nitrosodimethylamine	0.414	0.433	-4.6	163#	0.00
4 S	2-Fluorophenol	0.727	0.710	2.3	149	0.00
5 S	Phenol-d6	0.715	0.742	-3.8	160#	0.00
6	bis(2-Chloroethyl)ether	0.612	0.780	-27.5#	212#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	148	0.00
8 S	Nitrobenzene-d5	0.333	0.353	-6.0	160#	-0.01
9	Naphthalene	1.035	1.104	-6.7	159#	0.00
10	Hexachlorobutadiene	0.524	0.504	3.8	134	-0.01
11 SURR	2-Methylnaphthalene-d10	0.650	0.709	-9.1	153#	0.00
12	2-Methylnaphthalene	0.729	0.714	2.1	149	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	138	0.00
14 S	2,4,6-Tribromophenol	0.295	0.257	12.9	122	0.00
15 S	2-Fluorobiphenyl	1.753	2.048	-16.8	160#	0.00
16	Acenaphthylene	1.683	1.978	-17.5	167#	0.00
17	Acenaphthene	1.117	1.173	-5.0	148	0.00
18	Fluorene	1.584	1.667	-5.2	148	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	130	0.00
20	4,6-Dinitro-2-methylphenol	0.123	0.111	9.8	154#	0.00
21	4-Bromophenyl-phenylether	0.332	0.334	-0.6	138	0.00
22	Hexachlorobenzene	0.348	0.377	-8.3	135	0.00
23	Atrazine	0.259	0.283	-9.3	150#	0.00
24	Pentachlorophenol	0.193	0.167	13.5	127	0.00
25	Phenanthrene	1.126	1.205	-7.0	146	0.00
26	Anthracene	1.056	1.139	-7.9	149	0.00
27 SURR	Fluoranthene-d10	1.268	1.298	-2.4	128	0.00
28	Fluoranthene	1.564	1.532	2.0	134	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	129	0.00
30	Pyrene	1.523	1.673	-9.8	134	0.00
31 S	Terphenyl-d14	0.918	1.022	-11.3	137	0.00
32	Benzo(a)anthracene	1.288	1.384	-7.5	149	0.00
33	Chrysene	1.644	1.657	-0.8	129	0.00
34	Bis(2-ethylhexyl)phthalate	0.528	0.567	-7.4	136	0.00
35 I	Perylene-d12	1.000	1.000	0.0	125	0.00
36	Indeno(1,2,3-cd)pyrene	1.682	1.804	-7.3	141	0.00
37	Benzo(b)fluoranthene	1.397	1.361	2.6	132	0.00
38	Benzo(k)fluoranthene	1.535	1.650	-7.5	136	0.00
39 C	Benzo(a)pyrene	1.294	1.458	-12.7	147	0.00
40	Dibenzo(a,h)anthracene	1.351	1.364	-1.0	138	0.00
41	Benzo(g,h,i)perylene	1.542	1.589	-3.0	135	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037320.D
Acq On : 18 Jun 2025 18:19
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN061925

Quant Time: Jun 19 02:39:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 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	151	0.00
2	1,4-Dioxane	0.400	0.501	-25.2#	168	0.00
3	n-Nitrosodimethylamine	0.400	0.419	-4.7	163	0.00
4 S	2-Fluorophenol	0.400	0.391	2.3	149	0.00
5 S	Phenol-d6	0.400	0.415	-3.7	160	0.00
6	bis(2-Chloroethyl)ether	0.400	0.510	-27.5#	212	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	148	0.00
8 S	Nitrobenzene-d5	0.400	0.423	-5.7	160	-0.01
9	Naphthalene	0.400	0.427	-6.7	159	0.00
10	Hexachlorobutadiene	0.400	0.385	3.8	134	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.436	-9.0	153	0.00
12	2-Methylnaphthalene	0.400	0.392	2.0	149	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	138	0.00
14 S	2,4,6-Tribromophenol	0.400	0.349	12.8	122	0.00
15 S	2-Fluorobiphenyl	0.400	0.467	-16.8	160	0.00
16	Acenaphthylene	0.400	0.470	-17.5	167	0.00
17	Acenaphthene	0.400	0.420	-5.0	148	0.00
18	Fluorene	0.400	0.421	-5.2	148	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	130	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.360	10.0	154	0.00
21	4-Bromophenyl-phenylether	0.400	0.402	-0.5	138	0.00
22	Hexachlorobenzene	0.400	0.434	-8.5	135	0.00
23	Atrazine	0.400	0.436	-9.0	150	0.00
24	Pentachlorophenol	0.400	0.347	13.3	127	0.00
25	Phenanthrene	0.400	0.428	-7.0	146	0.00
26	Anthracene	0.400	0.431	-7.7	149	0.00
27 SURR	Fluoranthene-d10	0.400	0.409	-2.2	128	0.00
28	Fluoranthene	0.400	0.392	2.0	134	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	129	0.00
30	Pyrene	0.400	0.439	-9.7	134	0.00
31 S	Terphenyl-d14	0.400	0.445	-11.2	137	0.00
32	Benzo(a)anthracene	0.400	0.430	-7.5	149	0.00
33	Chrysene	0.400	0.403	-0.8	129	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.429	-7.2	136	0.00
35 I	Perylene-d12	0.400	0.400	0.0	125	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.429	-7.2	141	0.00
37	Benzo(b)fluoranthene	0.400	0.390	2.5	132	0.00
38	Benzo(k)fluoranthene	0.400	0.430	-7.5	136	0.00
39 C	Benzo(a)pyrene	0.400	0.451	-12.7	147	0.00
40	Dibenzo(a,h)anthracene	0.400	0.404	-1.0	138	0.00
41	Benzo(g,h,i)perylene	0.400	0.412	-3.0	135	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: BNA_N Calibration Date/Time: 06/18/2025 21:26

Lab File ID: BN037323.D Init. Calib. Date(s): 06/18/2025 06/18/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 14:06 17:43

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.650	0.700		7.7	20.0
Fluoranthene-d10	1.268	1.254		-1.1	20.0
2-Fluorophenol	0.727	0.722		-0.7	20.0
Phenol-d6	0.715	0.725		1.4	20.0
Nitrobenzene-d5	0.333	0.337		1.2	20.0
2-Fluorobiphenyl	1.753	1.795		2.4	20.0
2,4,6-Tribromophenol	0.295	0.291		-1.4	20.0
Terphenyl-d14	0.918	0.934		1.7	20.0
1,4-Dioxane	0.357	0.374		4.8	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037323.D
 Acq On : 18 Jun 2025 21:26
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jun 19 02:40:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

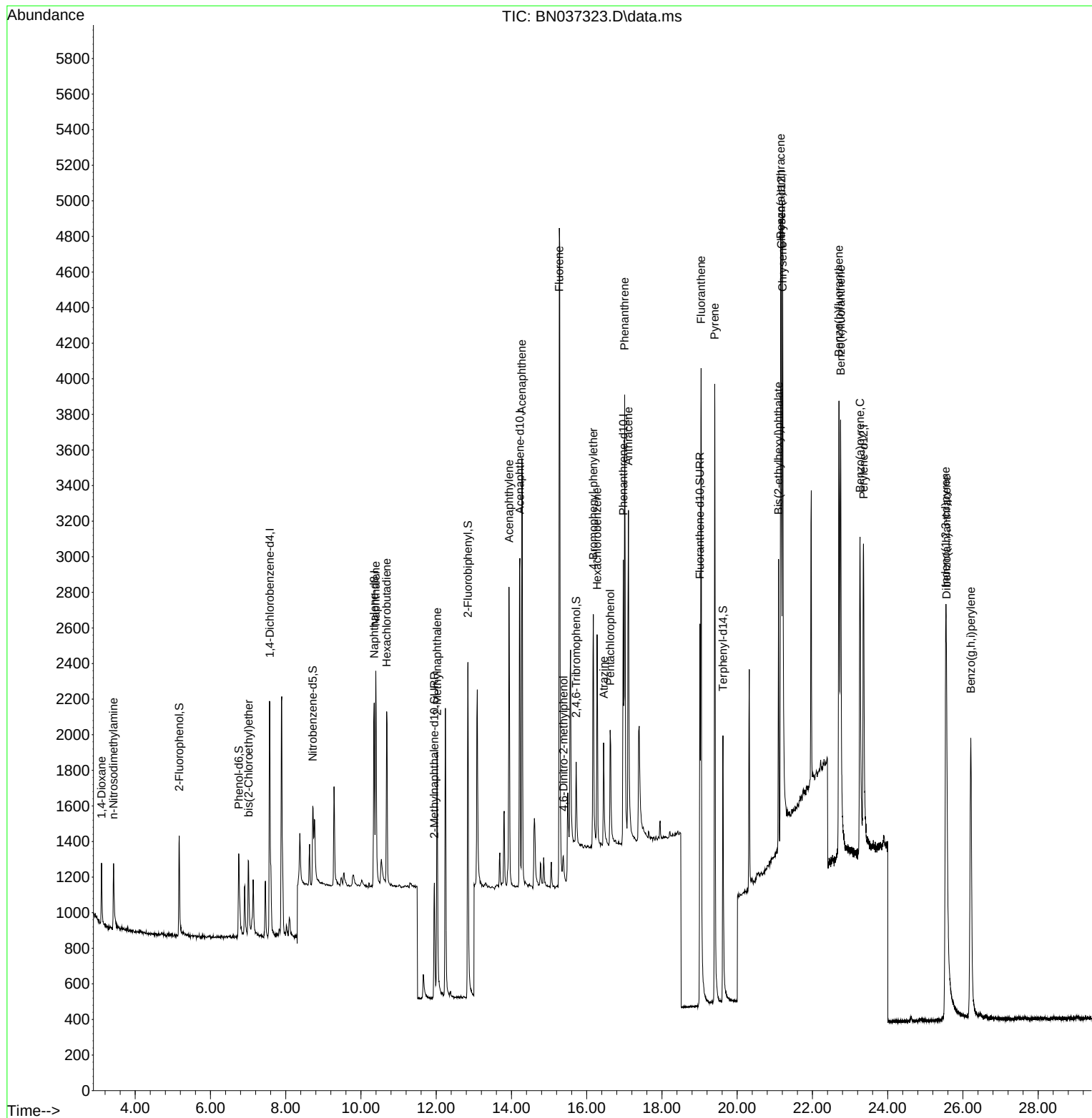
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	749	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1639	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1188	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2584	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2436	0.400	ng	0.00
35) Perylene-d12	23.357	264	2490	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	541	0.397	ng	0.00
5) Phenol-d6	6.752	99	543	0.406	ng	0.00
8) Nitrobenzene-d5	8.717	82	552	0.404	ng	-0.01
11) 2-Methylnaphthalene-d10	11.950	152	1148	0.431	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	346	0.395	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	2132	0.410	ng	0.00
27) Fluoranthene-d10	19.008	212	3241	0.396	ng	0.00
31) Terphenyl-d14	19.621	244	2275	0.407	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	280	0.419	ng	95
3) n-Nitrosodimethylamine	3.422	42	311	0.401	ng	96
6) bis(2-Chloroethyl)ether	7.012	93	471	0.411	ng	96
9) Naphthalene	10.394	128	1693	0.399	ng	96
10) Hexachlorobutadiene	10.682	225	863	0.402	ng	# 99
12) 2-Methylnaphthalene	12.026	142	1182	0.396	ng	97
16) Acenaphthylene	13.935	152	1936	0.387	ng	97
17) Acenaphthene	14.277	154	1318	0.397	ng	99
18) Fluorene	15.272	166	1868	0.397	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	270	0.340	ng	# 80
21) 4-Bromophenyl-phenylether	16.177	248	800	0.373	ng	95
22) Hexachlorobenzene	16.276	284	908	0.404	ng	98
23) Atrazine	16.450	200	634	0.378	ng	95
24) Pentachlorophenol	16.624	266	469	0.377	ng	98
25) Phenanthrene	17.009	178	2811	0.386	ng	99
26) Anthracene	17.108	178	2637	0.386	ng	97
28) Fluoranthene	19.040	202	3788	0.375	ng	99
30) Pyrene	19.403	202	3822	0.412	ng	99
32) Benzo(a)anthracene	21.153	228	3018	0.385	ng	98
33) Chrysene	21.207	228	3928	0.392	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	1354	0.421	ng	99
36) Indeno(1,2,3-cd)pyrene	25.541	276	4252	0.406	ng	# 96
37) Benzo(b)fluoranthene	22.705	252	3587	0.412	ng	99
38) Benzo(k)fluoranthene	22.749	252	3862	0.404	ng	97
39) Benzo(a)pyrene	23.263	252	3253	0.404	ng	96
40) Dibenzo(a,h)anthracene	25.561	278	3199	0.380	ng	90
41) Benzo(g,h,i)perylene	26.210	276	3822	0.398	ng	98

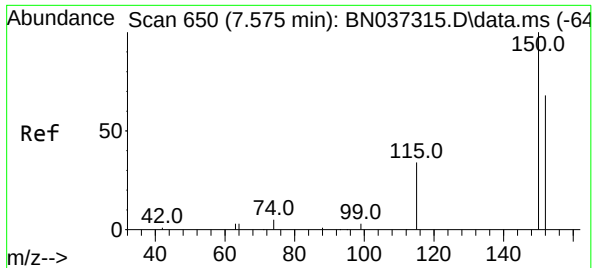
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037323.D
Acq On : 18 Jun 2025 21:26
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 19 02:40:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

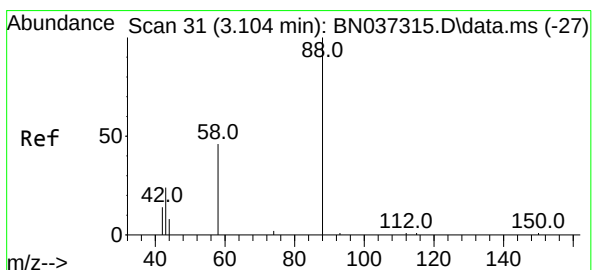
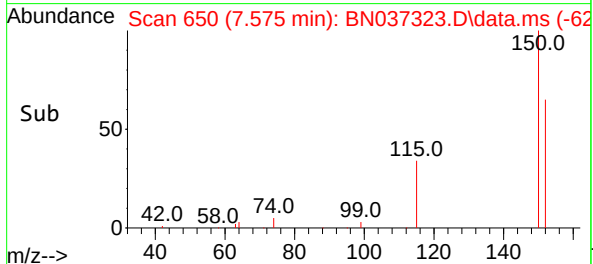
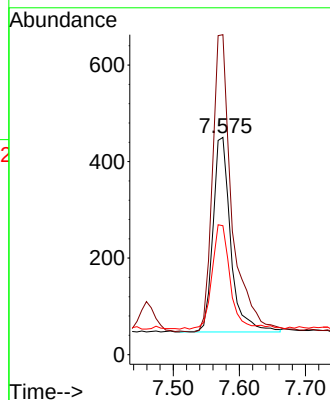
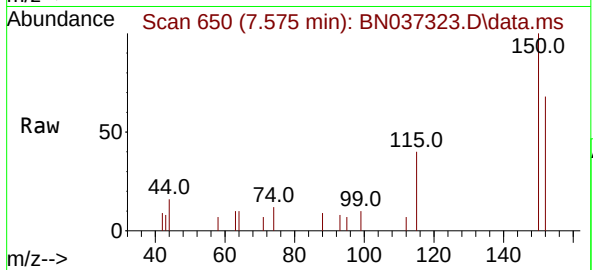




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

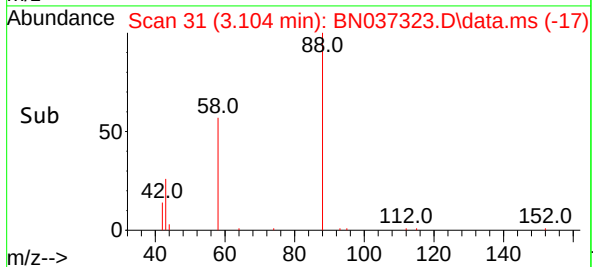
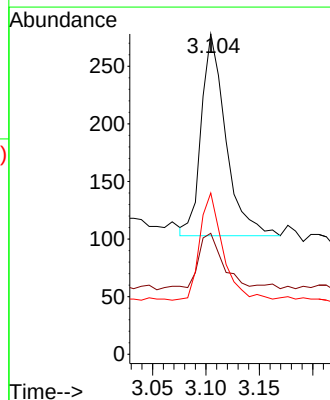
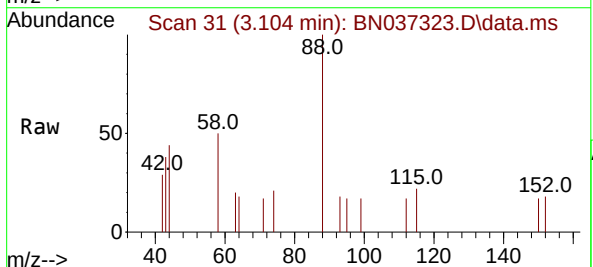
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

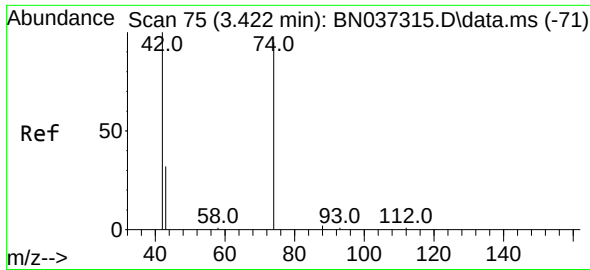
Tgt Ion:152 Resp: 749
Ion Ratio Lower Upper
152 100
150 147.3 112.7 169.1
115 59.3 45.9 68.9



#2
1,4-Dioxane
Concen: 0.419 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion: 88 Resp: 280
Ion Ratio Lower Upper
88 100
43 30.0 21.0 31.6
58 50.4 38.0 57.0

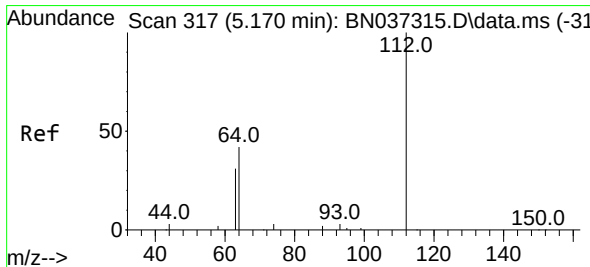
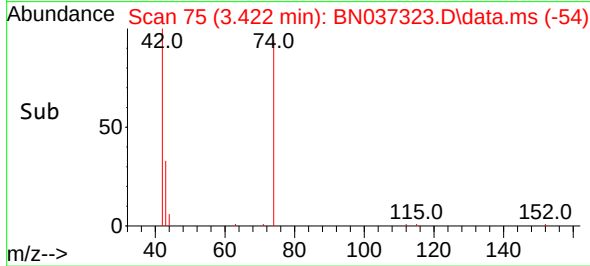
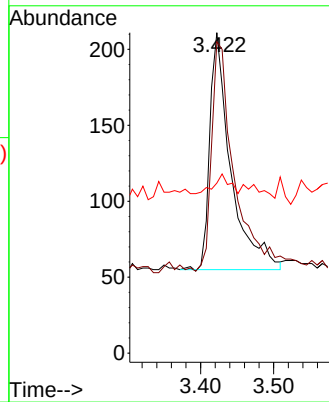
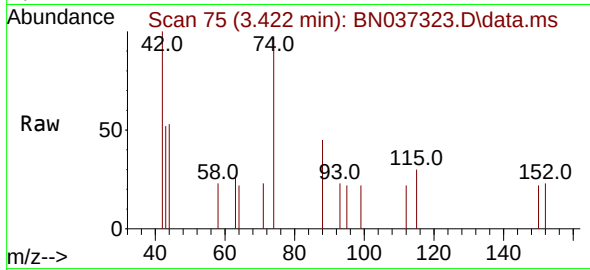




#3
n-Nitrosodimethylamine
Concen: 0.401 ng
RT: 3.422 min Scan# 75
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

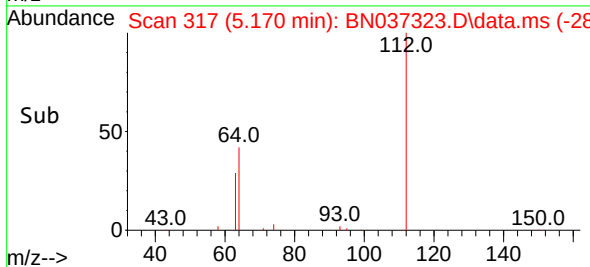
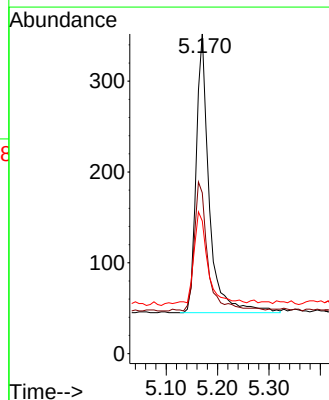
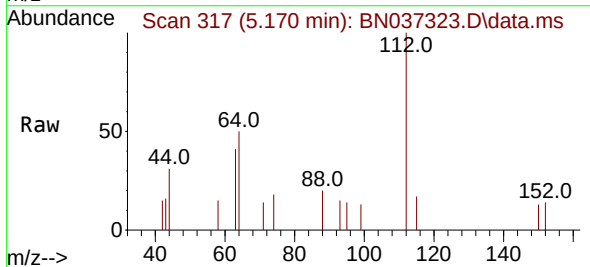
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

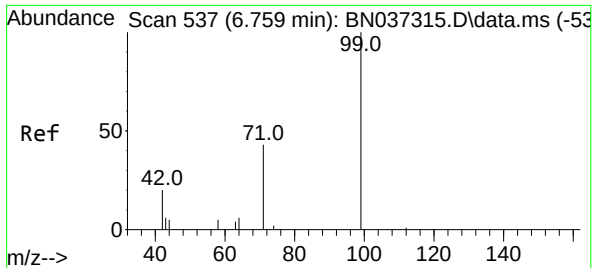
Tgt Ion: 42 Resp: 311
Ion Ratio Lower Upper
42 100
74 109.6 84.3 126.5
44 6.8 5.0 7.4



#4
2-Fluorophenol
Concen: 0.397 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion: 112 Resp: 541
Ion Ratio Lower Upper
112 100
64 45.8 38.7 58.1
63 38.1 26.4 39.6

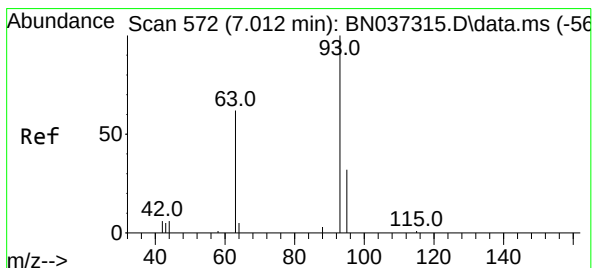
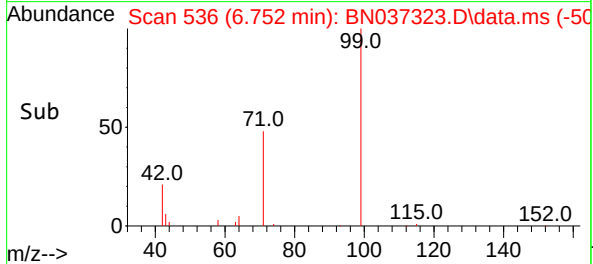
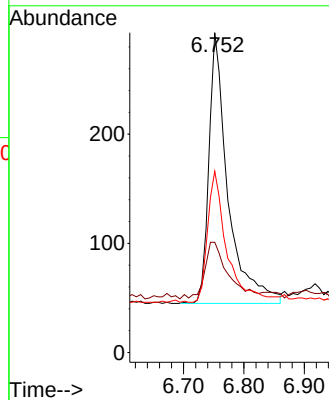
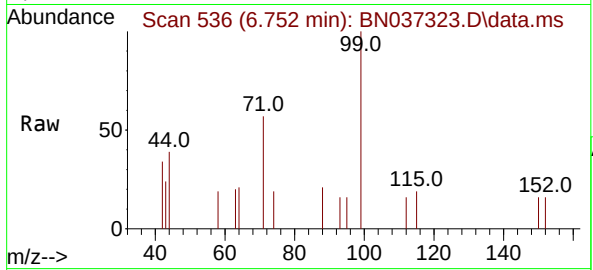




#5
Phenol-d6
Concen: 0.406 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

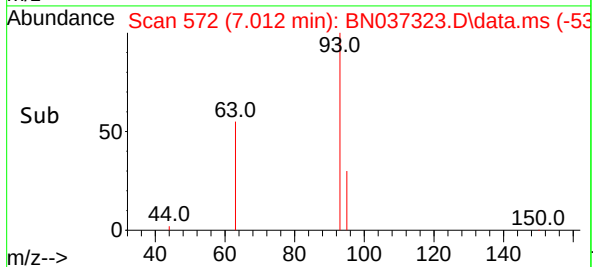
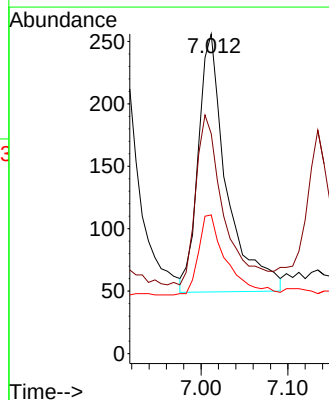
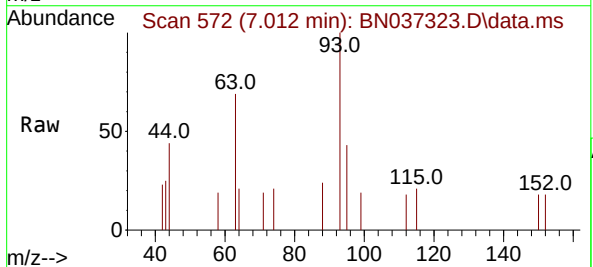
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

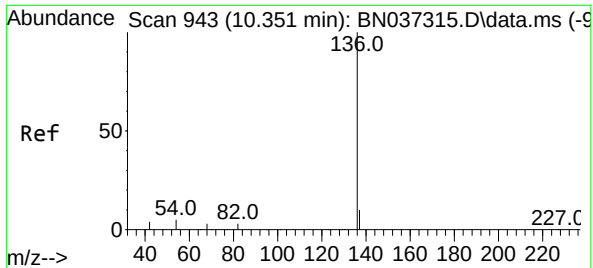
Tgt Ion:	99	Resp:	543
Ion	Ratio	Lower	Upper
99	100		
42	26.0	19.8	29.8
71	48.6	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.411 ng
RT: 7.012 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:	93	Resp:	471
Ion	Ratio	Lower	Upper
93	100		
63	64.1	53.2	79.8
95	31.2	27.3	40.9

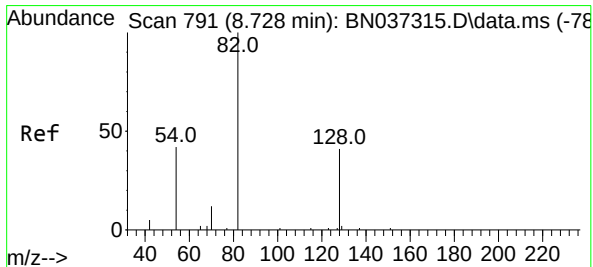
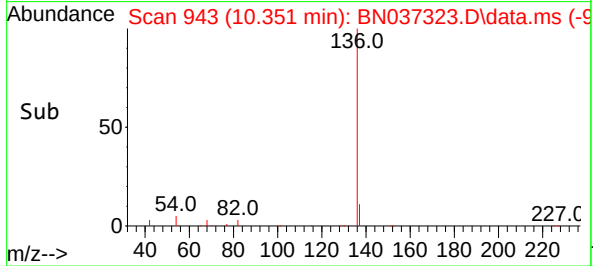
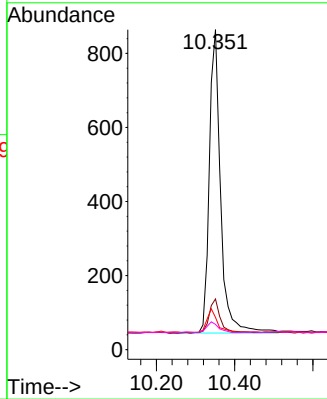
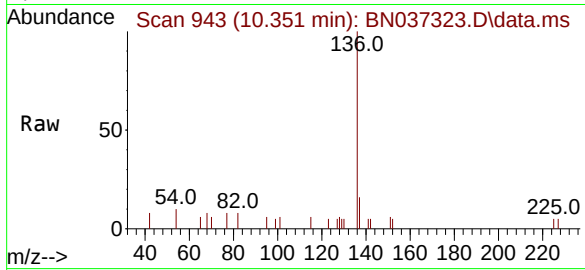




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

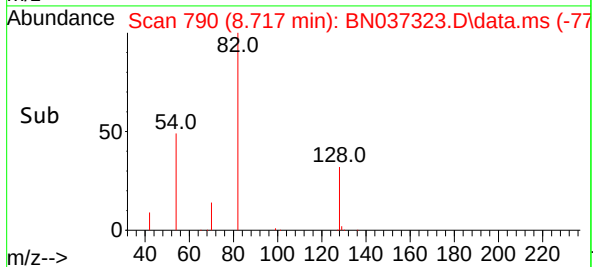
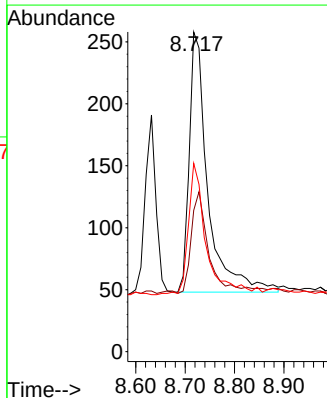
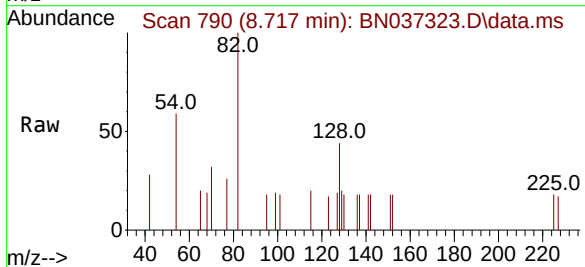
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

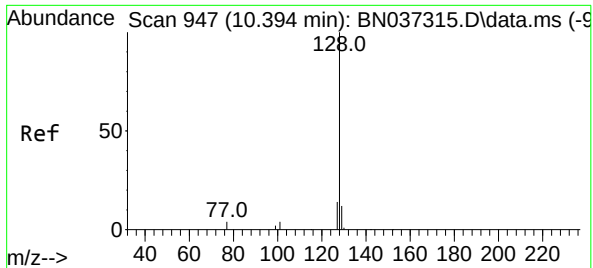
Tgt Ion:	136	Resp:	1639
Ion	Ratio	Lower	Upper
136	100		
137	15.9	12.2	18.2
54	10.1	8.8	13.2
68	7.9	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.404 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:	82	Resp:	552
Ion	Ratio	Lower	Upper
82	100		
128	44.2	42.5	63.7
54	58.9	43.2	64.8

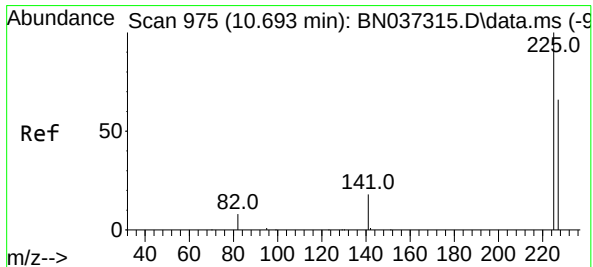
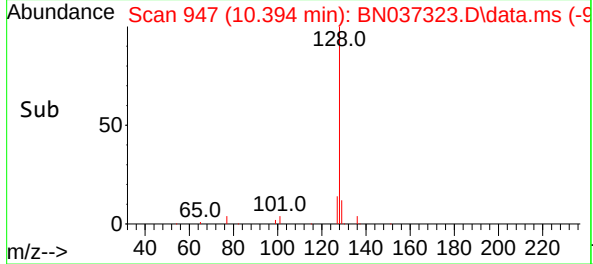
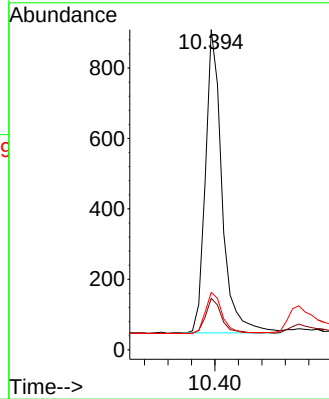
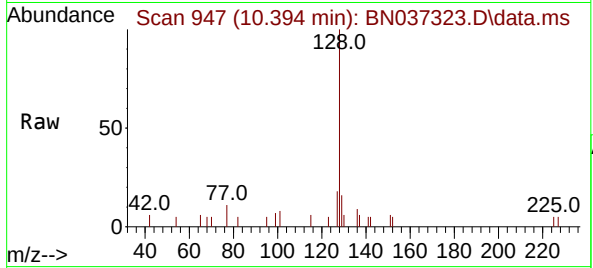




#9
Naphthalene
Concen: 0.399 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

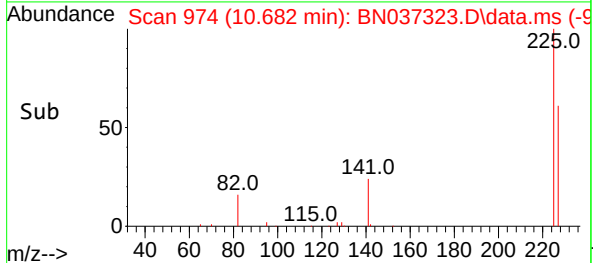
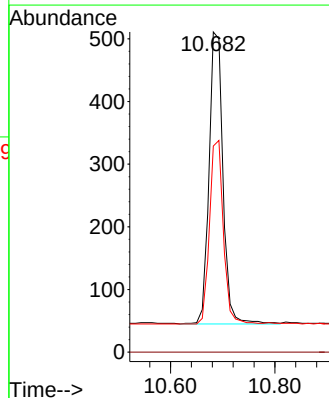
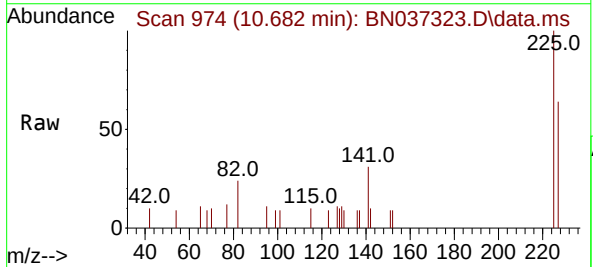
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

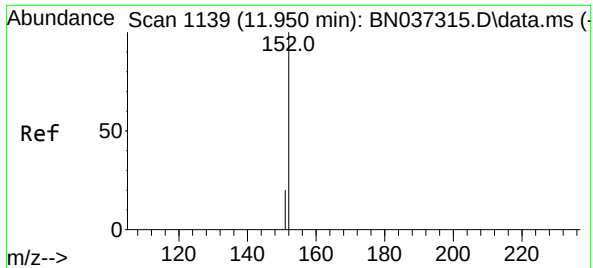
Tgt Ion:	128	Resp:	1693
Ion	Ratio	Lower	Upper
128	100		
129	16.1	14.0	21.0
127	17.9	15.8	23.8



#10
Hexachlorobutadiene
Concen: 0.402 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:	225	Resp:	863
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.2	50.3	75.5

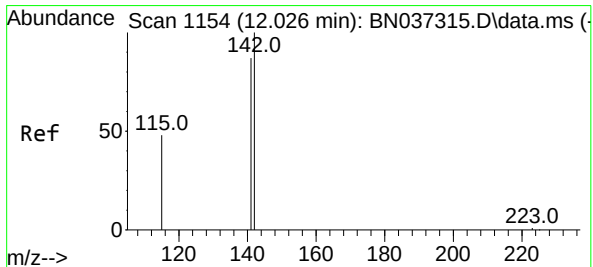
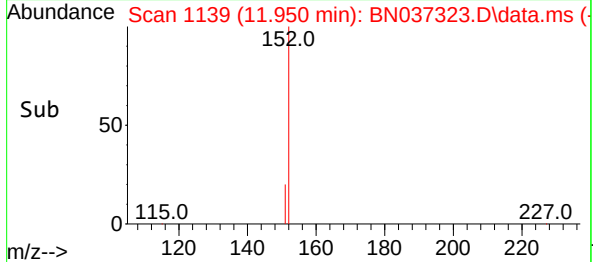
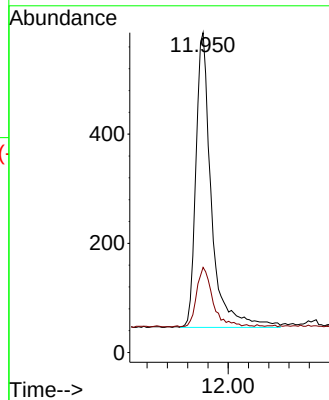
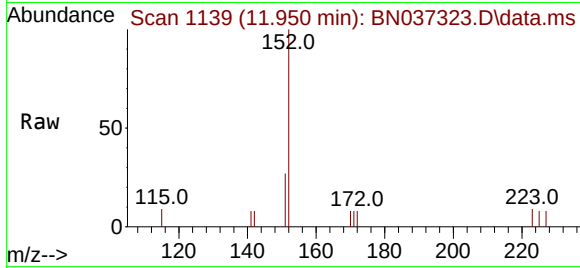




#11
2-Methylnaphthalene-d10
Concen: 0.431 ng
RT: 11.950 min Scan# 1139
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

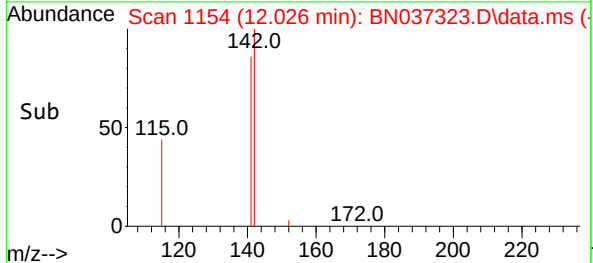
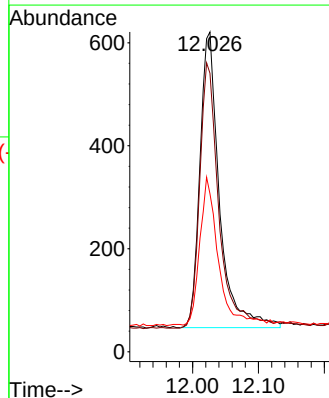
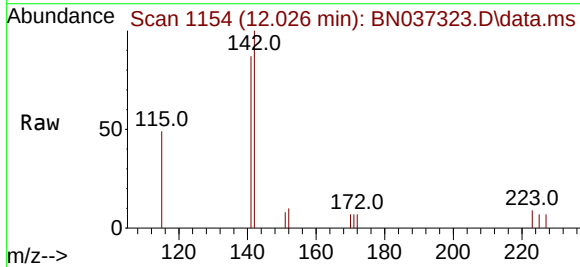
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

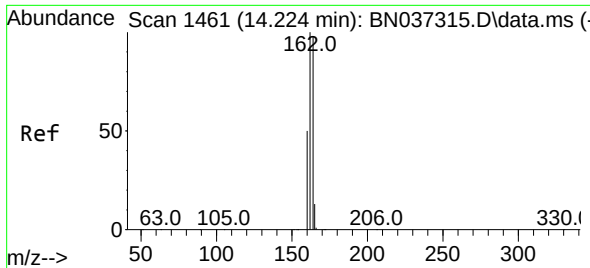
Tgt Ion:152 Resp: 1148
Ion Ratio Lower Upper
152 100
151 21.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.026 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:142 Resp: 1182
Ion Ratio Lower Upper
142 100
141 87.1 70.2 105.2
115 49.4 43.0 64.4

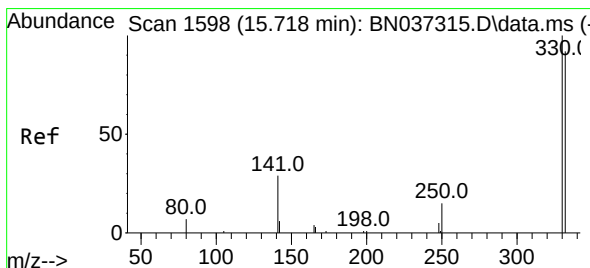
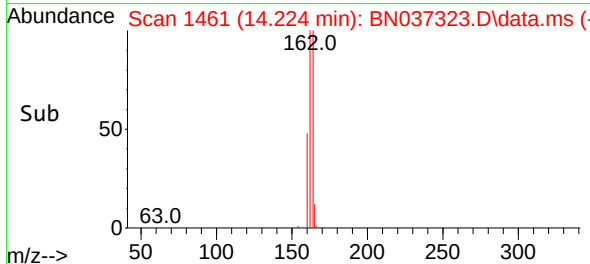
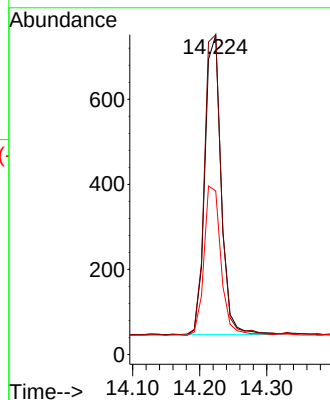
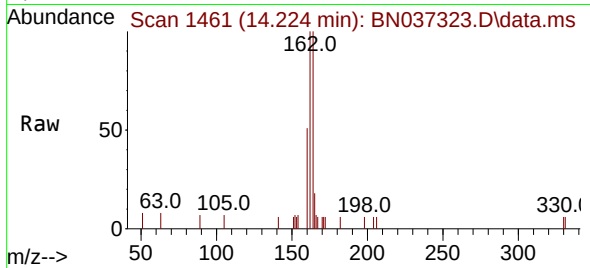




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

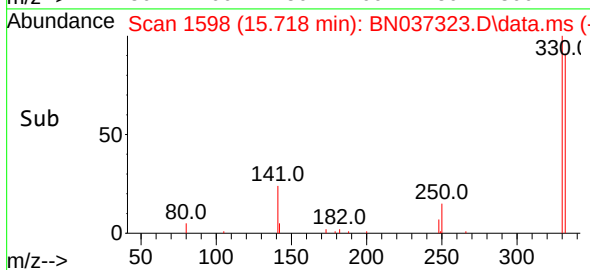
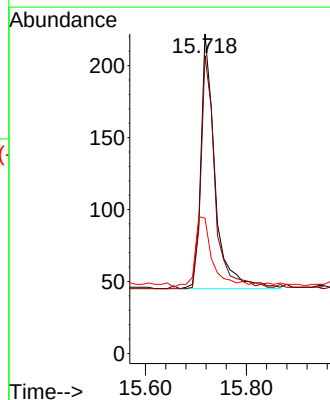
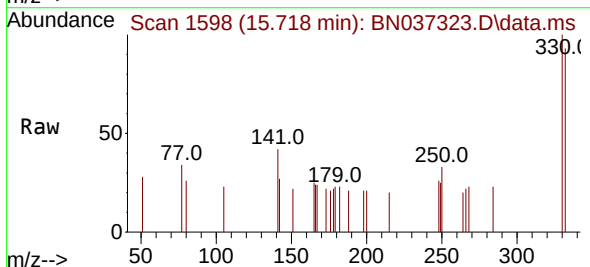
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

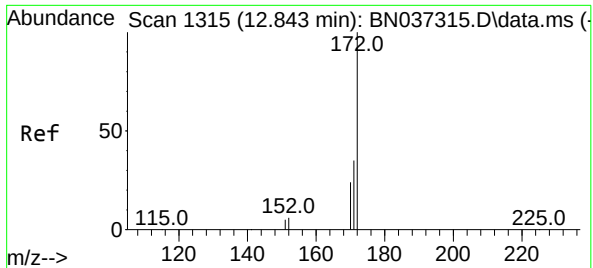
Tgt Ion:164 Resp: 1188
Ion Ratio Lower Upper
164 100
162 100.1 81.5 122.3
160 51.3 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.395 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:330 Resp: 346
Ion Ratio Lower Upper
330 100
332 90.8 78.4 117.6
141 35.0 24.4 36.6

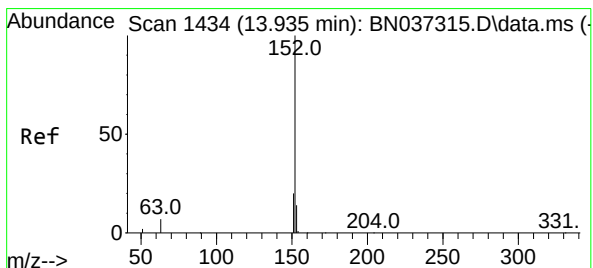
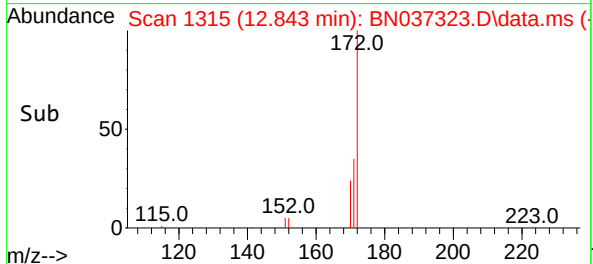
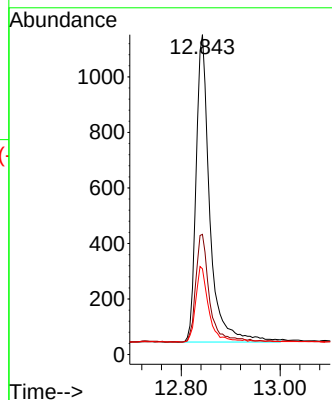
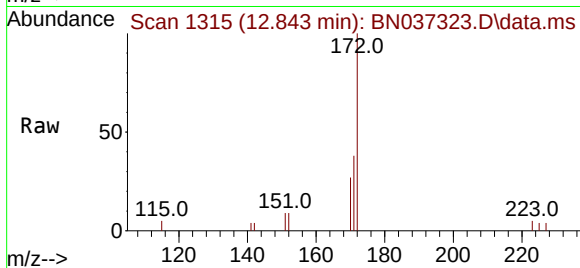




#15
2-Fluorobiphenyl
Concen: 0.410 ng
RT: 12.843 min Scan# 1315
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

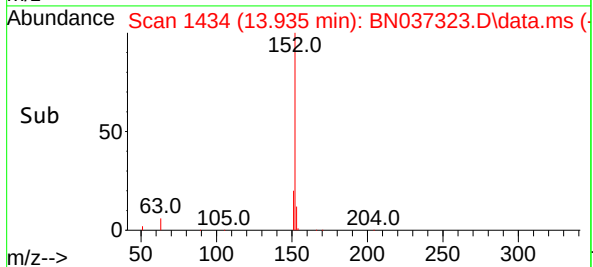
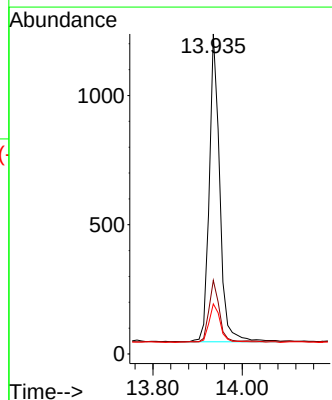
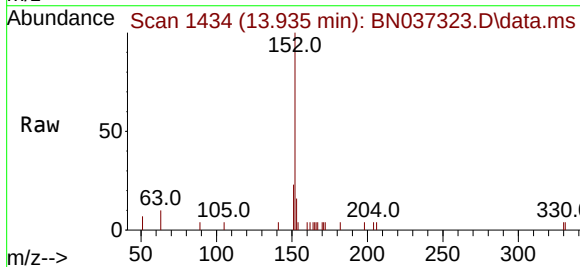
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

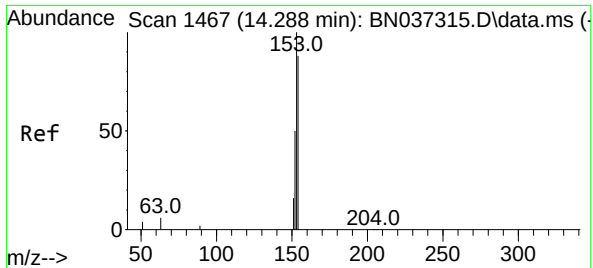
Tgt Ion:	172	Resp:	2132
Ion Ratio	Lower	Upper	
172	100		
171	37.6	30.8	46.2
170	26.8	21.9	32.9



#16
Acenaphthylene
Concen: 0.387 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:	152	Resp:	1936
Ion Ratio	Lower	Upper	
152	100		
151	19.5	16.6	24.8
153	13.7	10.2	15.2

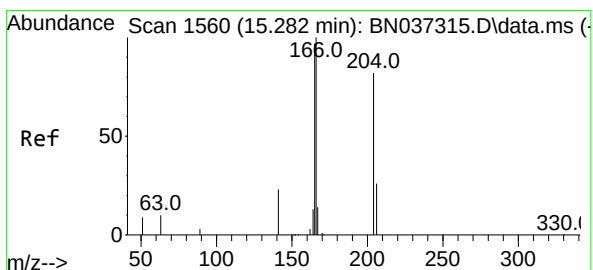
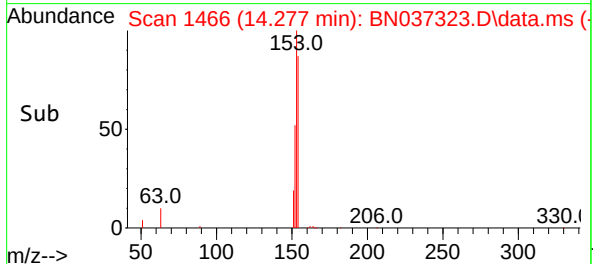
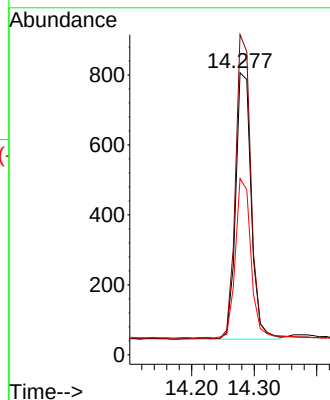
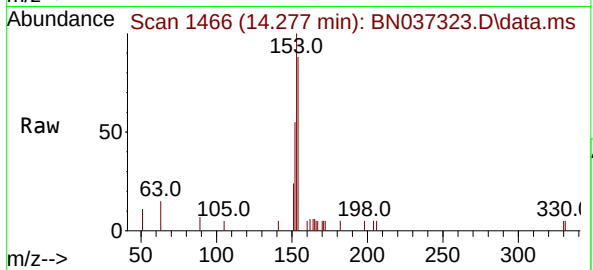




#17
Acenaphthene
Concen: 0.397 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

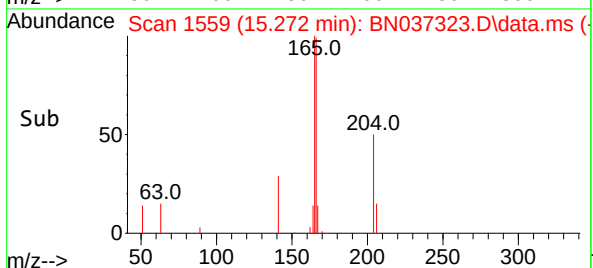
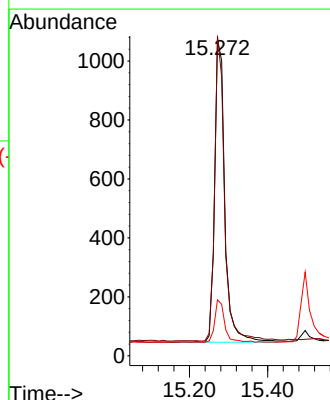
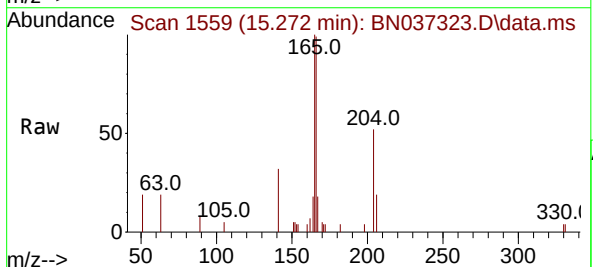
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

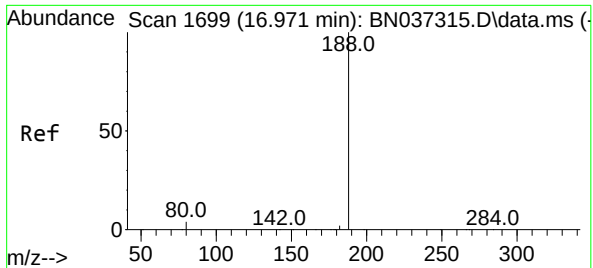
Tgt Ion:154 Resp: 1318
Ion Ratio Lower Upper
154 100
153 114.9 93.1 139.7
152 60.2 48.6 73.0



#18
Fluorene
Concen: 0.397 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:166 Resp: 1868
Ion Ratio Lower Upper
166 100
165 97.3 79.5 119.3
167 13.7 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: BN037323.D

Acq: 18 Jun 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

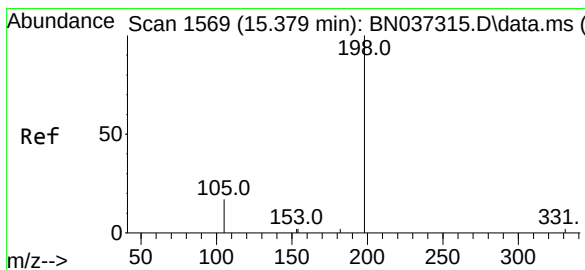
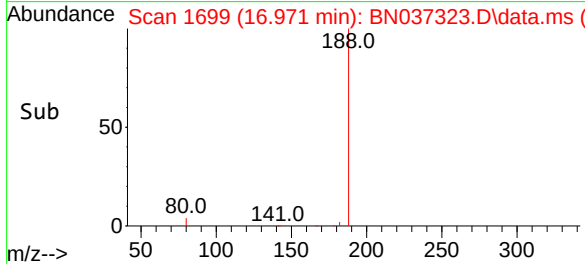
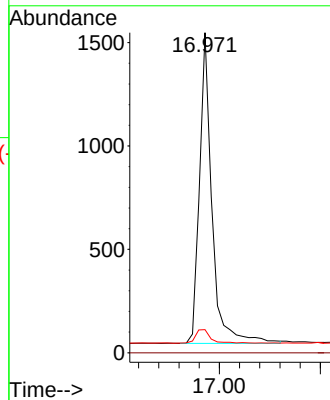
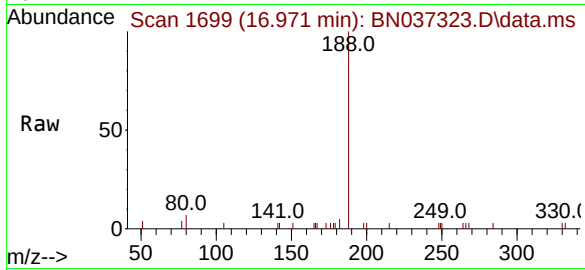
Tgt Ion:188 Resp: 2584

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.2 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.340 ng

RT: 15.378 min Scan# 1569

Delta R.T. -0.000 min

Lab File: BN037323.D

Acq: 18 Jun 2025 21:26

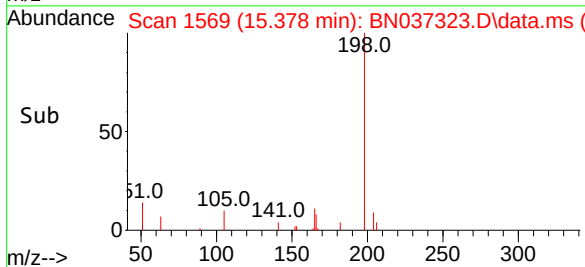
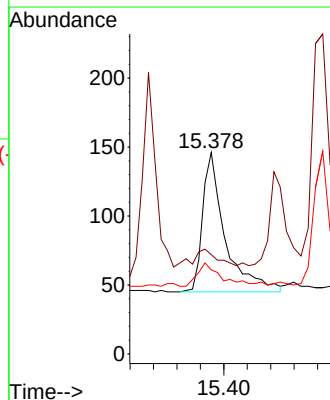
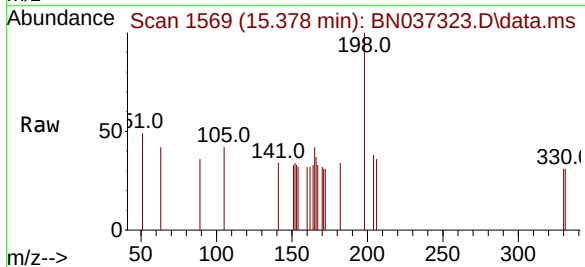
Tgt Ion:198 Resp: 270

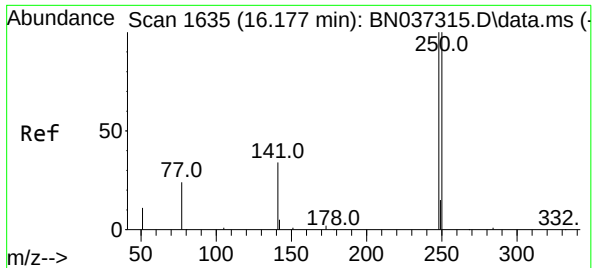
Ion Ratio Lower Upper

198 100

51 49.3 51.4 77.0#

105 41.8 45.5 68.3#

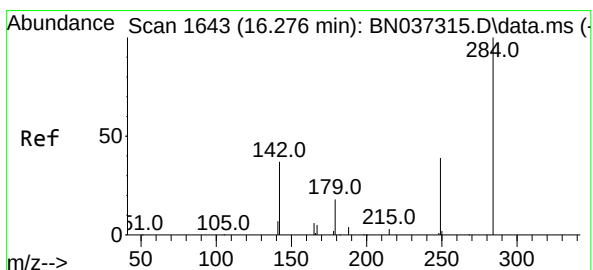
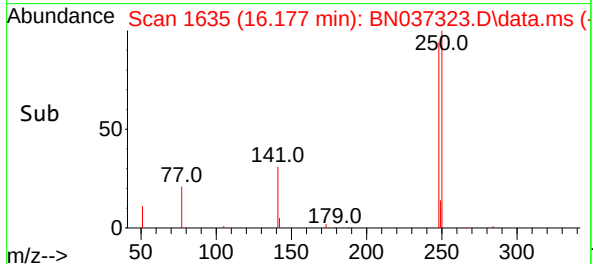
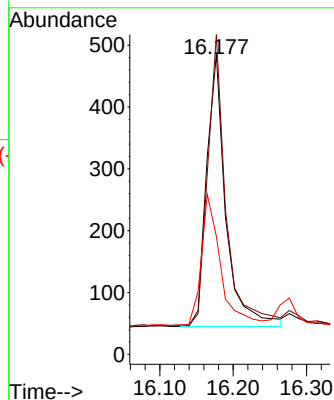
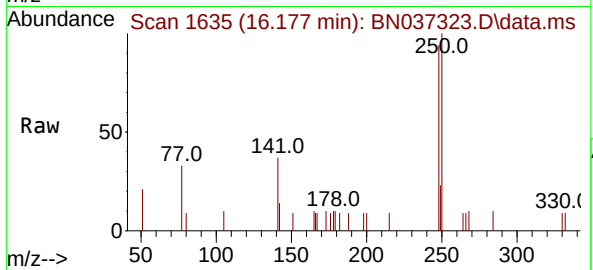




#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

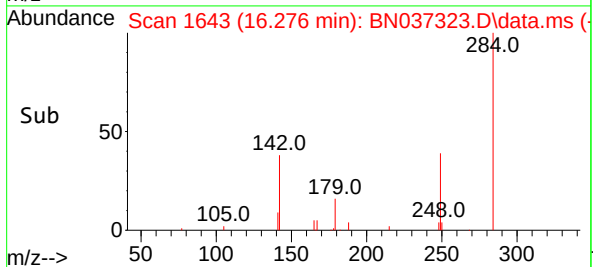
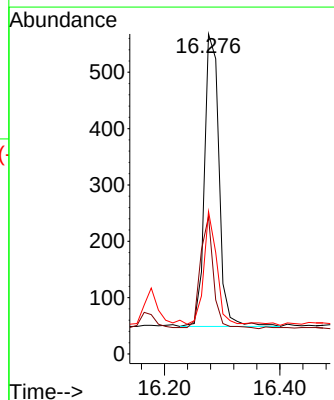
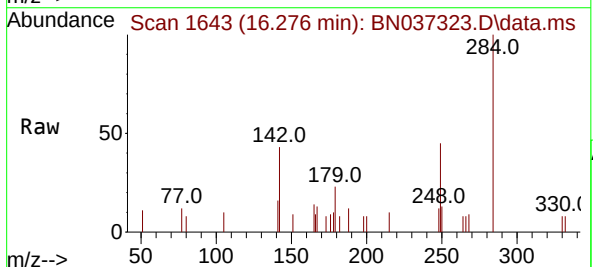
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

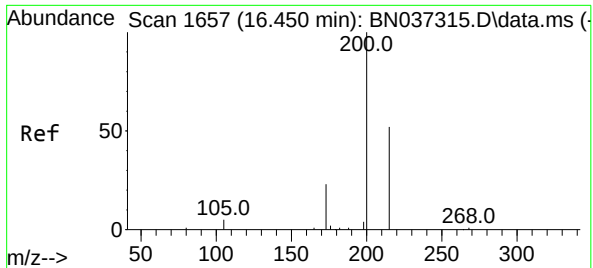
Tgt Ion	Ratio	Lower	Upper
248	100		
250	106.4	80.4	120.6
141	39.3	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.404 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.0	27.0	40.6
249	34.9	28.8	43.2

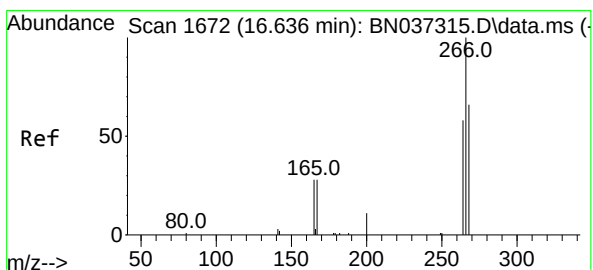
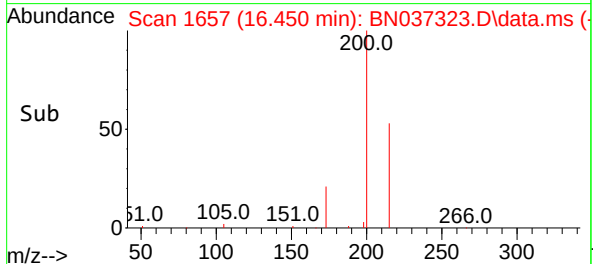
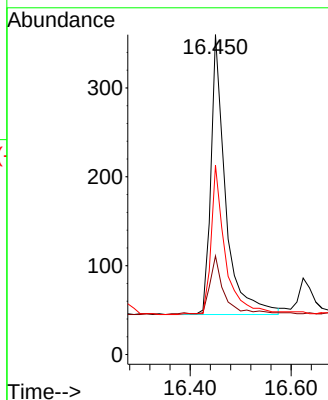
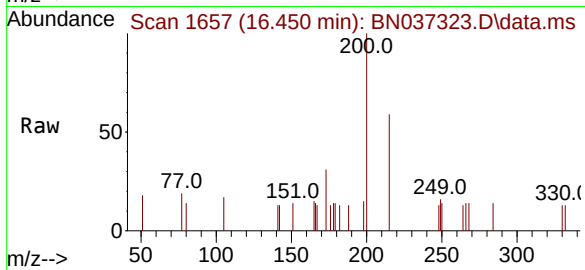




#23
Atrazine
Concen: 0.378 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

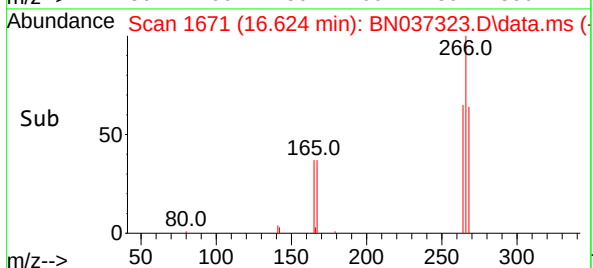
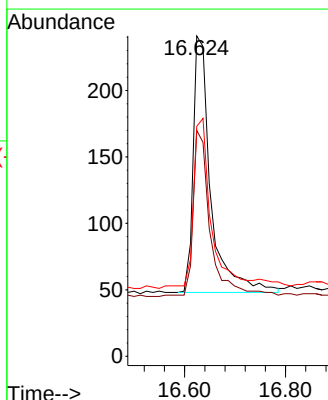
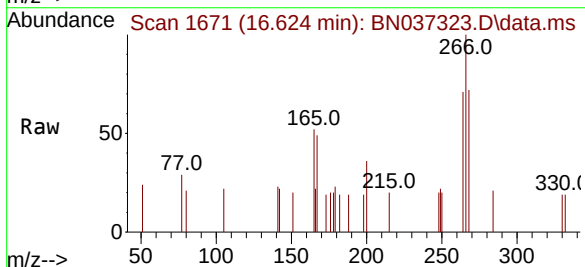
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

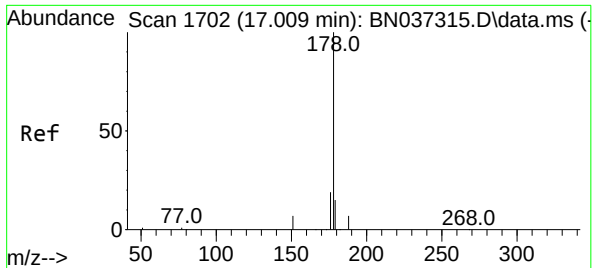
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.8	29.2	43.8
215	59.2	48.8	73.2



#24
Pentachlorophenol
Concen: 0.377 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.012 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.3	75.5
268	67.2	55.3	82.9

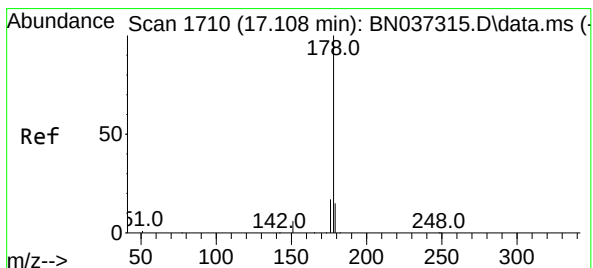
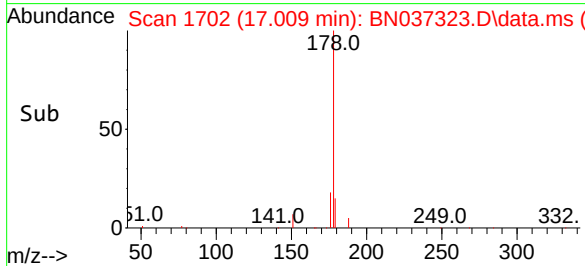
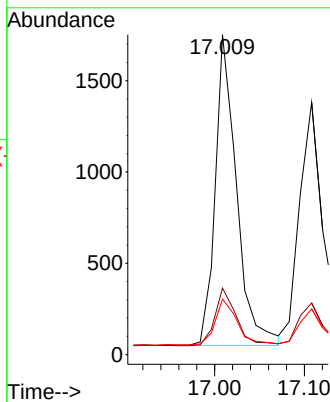
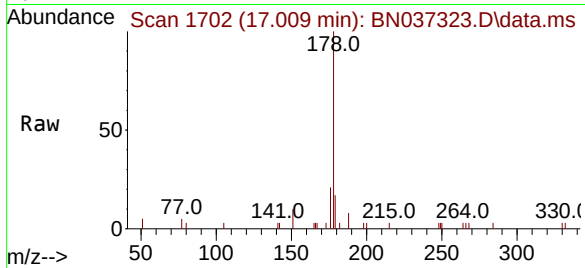




#25
Phenanthrene
Concen: 0.386 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

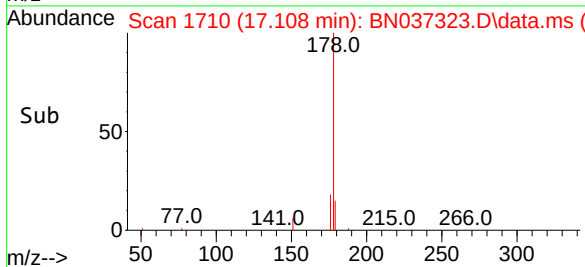
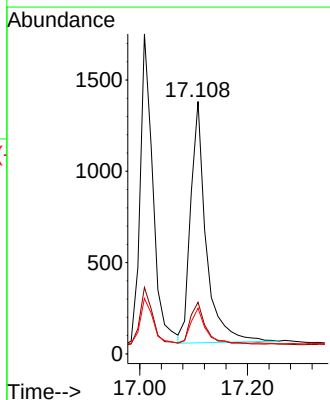
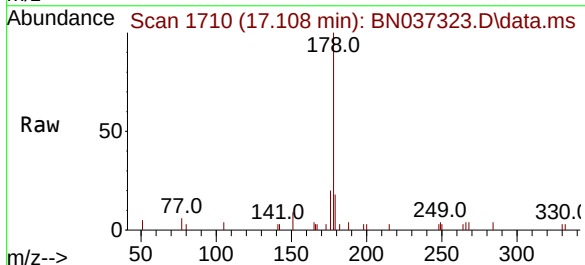
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

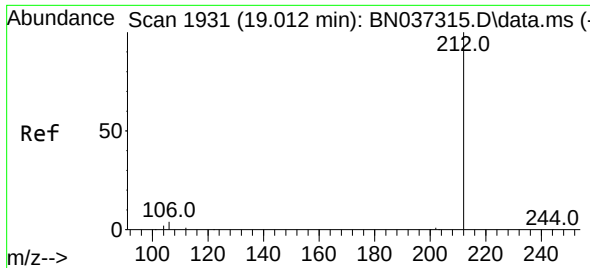
Tgt Ion:	178	Resp:	2811
Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.2	22.8
179	15.6	12.9	19.3



#26
Anthracene
Concen: 0.386 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:	178	Resp:	2637
Ion	Ratio	Lower	Upper
178	100		
176	17.5	14.7	22.1
179	14.3	13.0	19.6

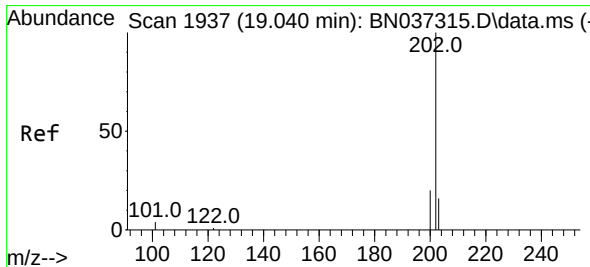
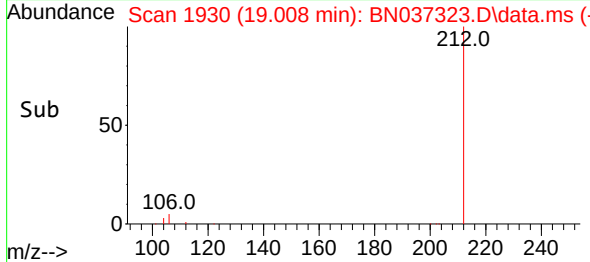
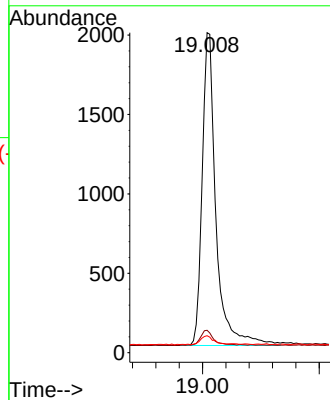
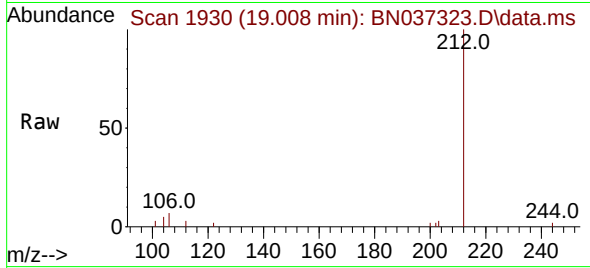




#27
Fluoranthene-d10
Concen: 0.396 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

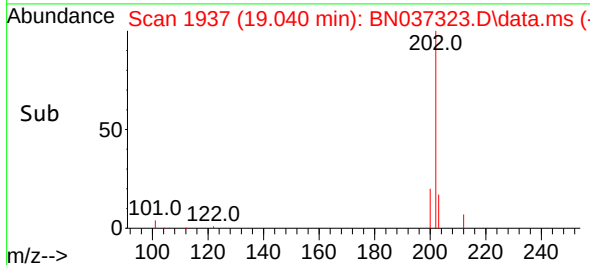
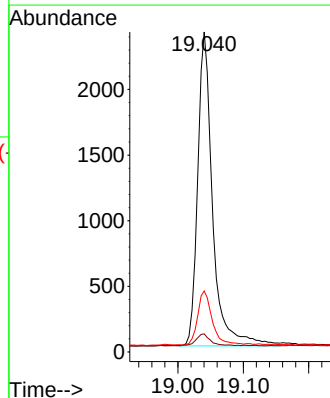
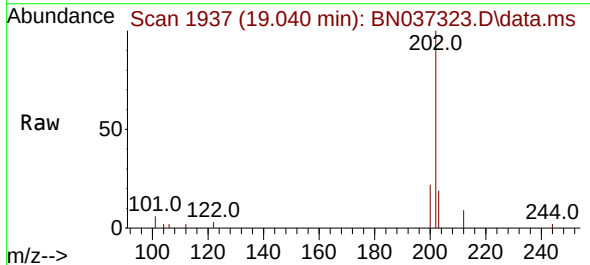
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

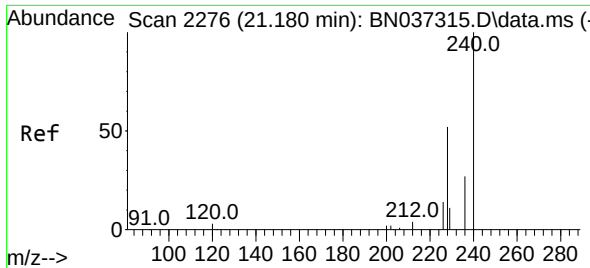
Tgt Ion	Ratio	Lower	Upper
212	100		
106	4.7	3.0	4.4#
104	2.7	2.0	3.0



#28
Fluoranthene
Concen: 0.375 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion	Ratio	Lower	Upper
202	100		
101	3.8	3.0	4.6
203	16.7	13.7	20.5

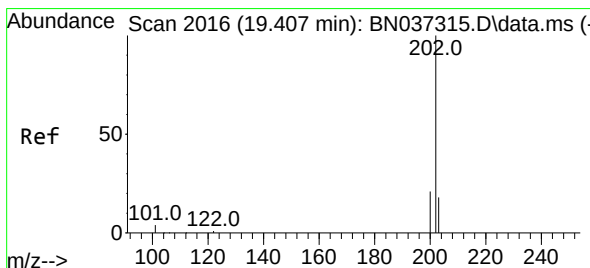
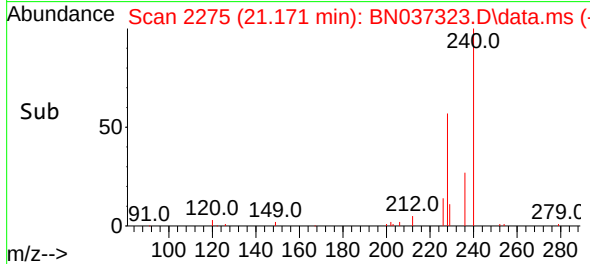
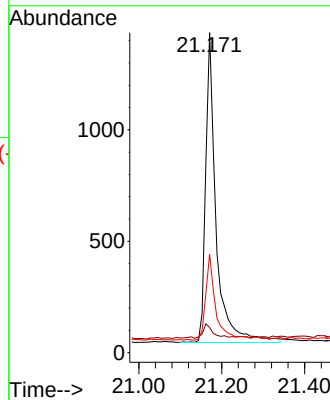
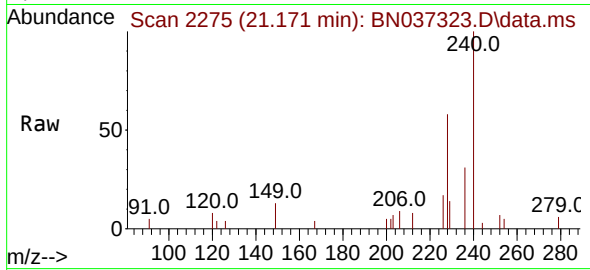




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

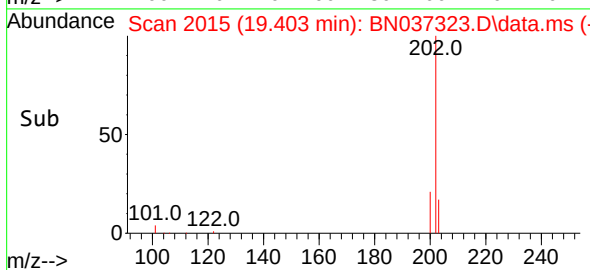
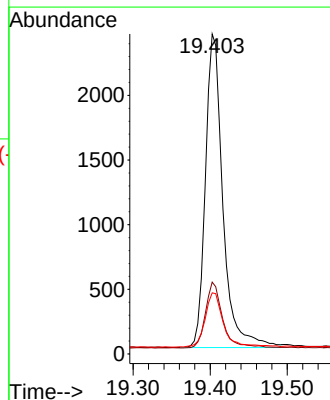
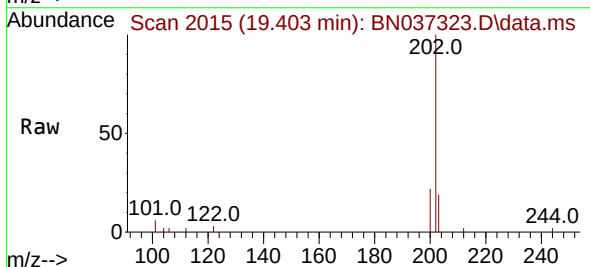
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

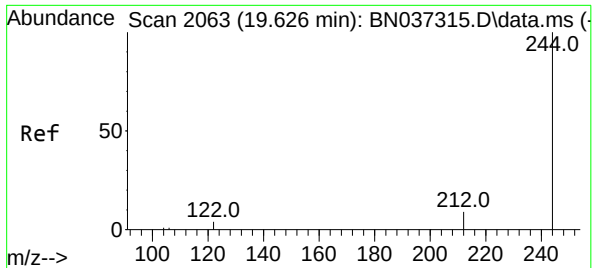
Tgt Ion:	240	Resp:	2436
Ion Ratio	Lower	Upper	
240	100		
120	7.9	7.5	11.3
236	30.8	24.9	37.3



#30
Pyrene
Concen: 0.412 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:	202	Resp:	3822
Ion Ratio	Lower	Upper	
202	100		
200	20.5	16.8	25.2
203	18.1	14.5	21.7

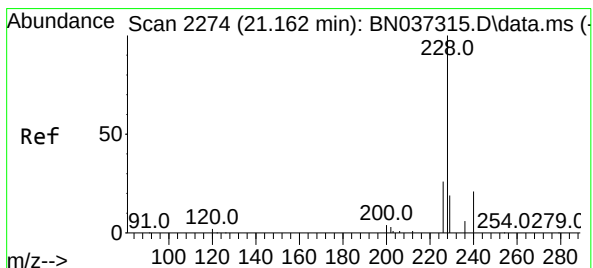
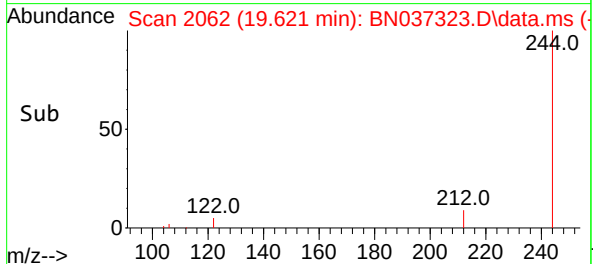
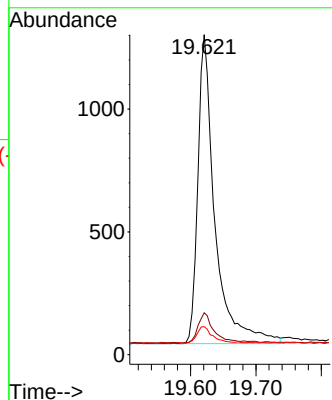
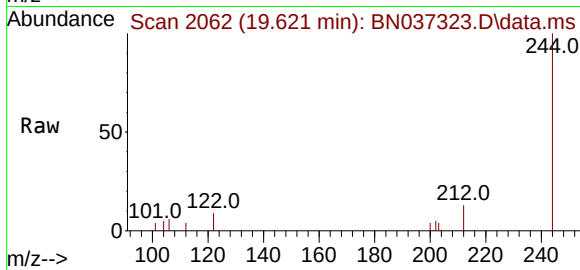




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.621 min Scan# 2062
Delta R.T. -0.005 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

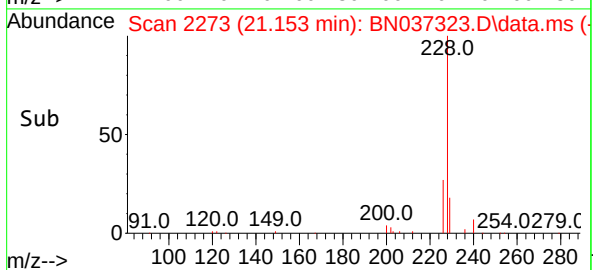
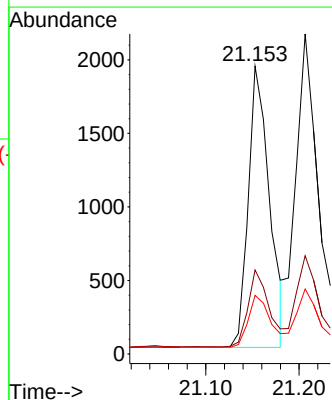
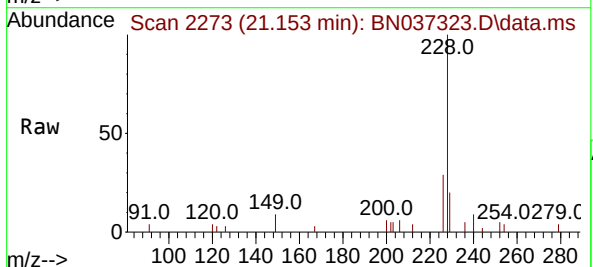
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

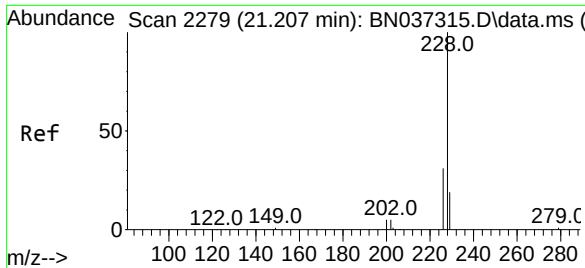
Tgt Ion	Ratio	Lower	Upper
244	100		
212	13.1	11.1	16.7
122	8.7	7.2	10.8



#32
Benzo(a)anthracene
Concen: 0.385 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	23.0	34.4
229	20.4	17.4	26.0

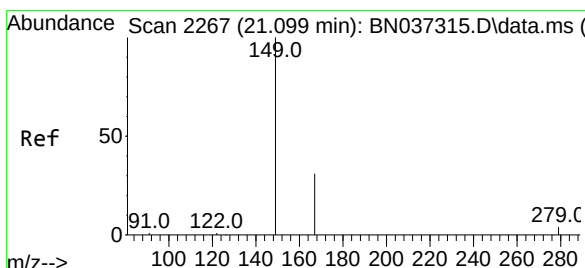
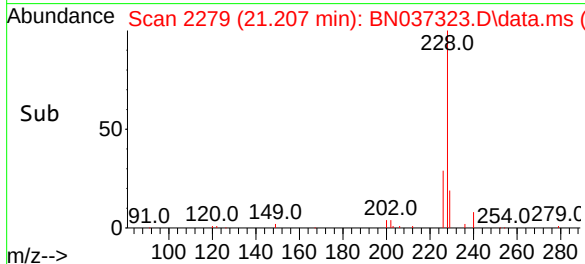
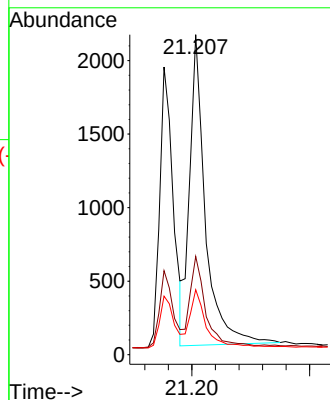
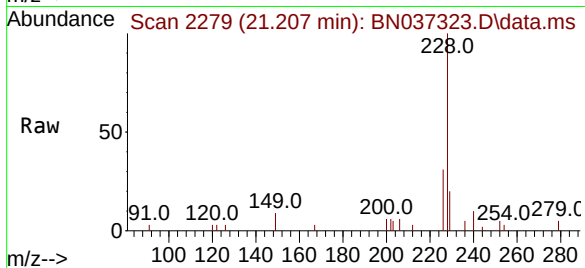




#33
Chrysene
Concen: 0.392 ng
RT: 21.207 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

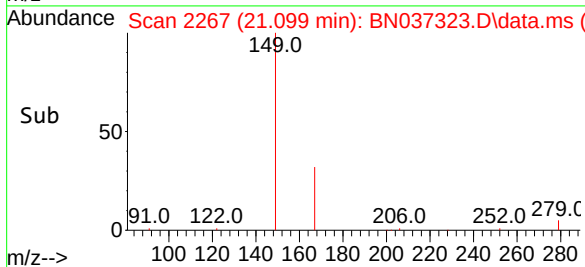
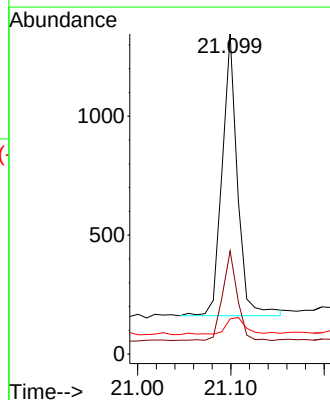
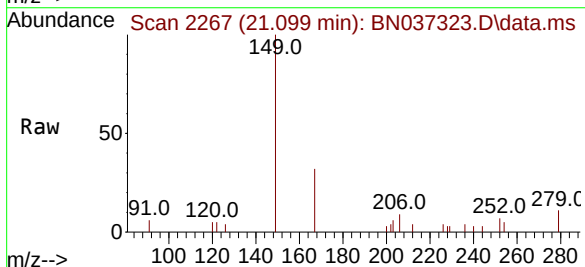
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

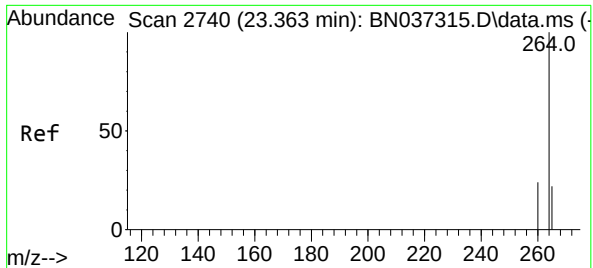
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.4	38.2
229	20.3	17.3	25.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.421 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.4	24.6	37.0
279	7.2	6.5	9.7

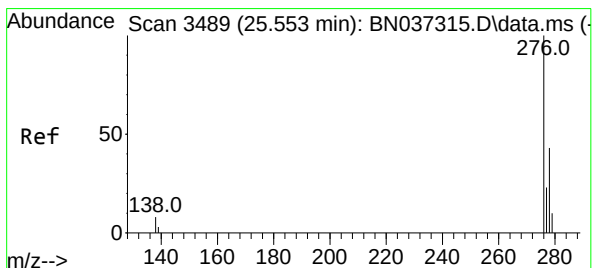
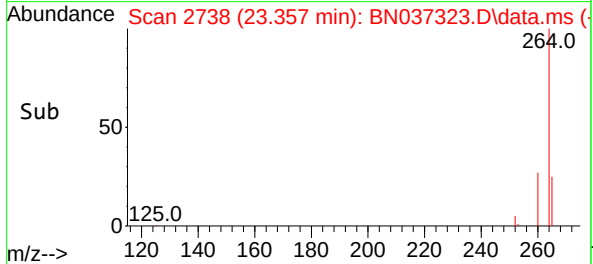
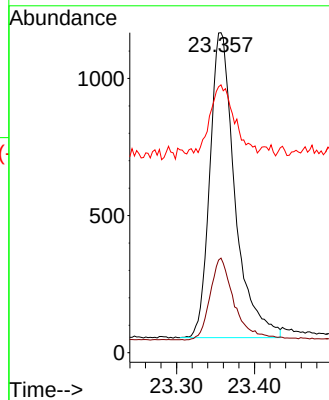
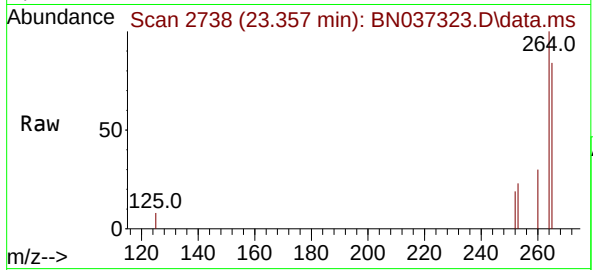




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

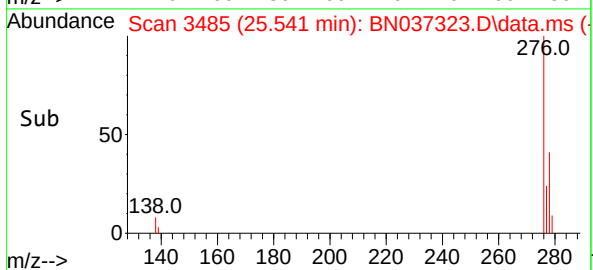
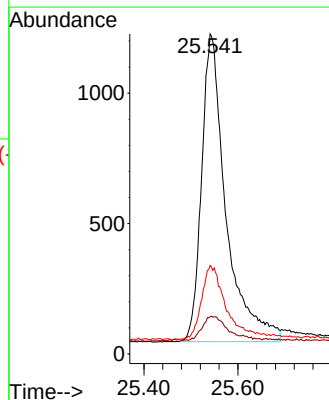
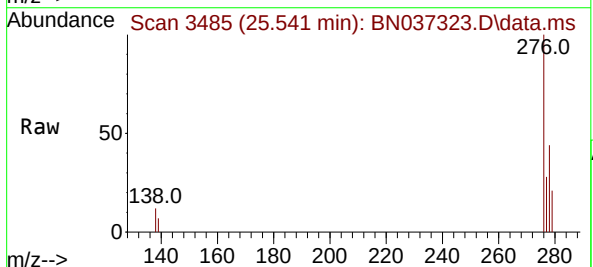
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

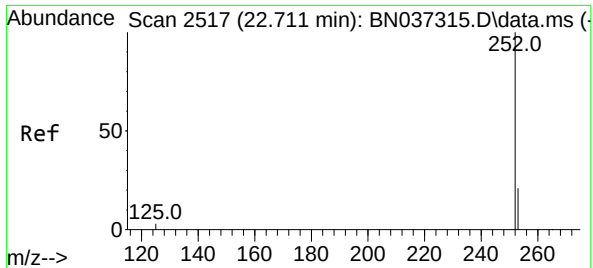
Tgt Ion:264 Resp: 2490
Ion Ratio Lower Upper
264 100
260 29.6 21.4 32.2
265 83.7 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.406 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.012 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:276 Resp: 4252
Ion Ratio Lower Upper
276 100
138 7.6 2.2 3.2#
277 22.9 17.1 25.7

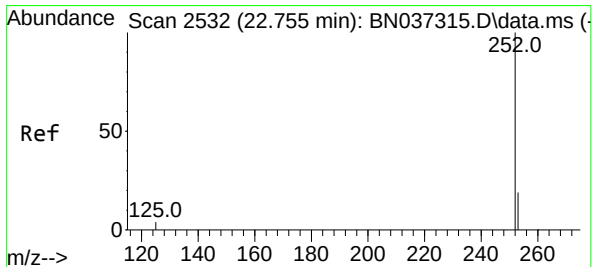
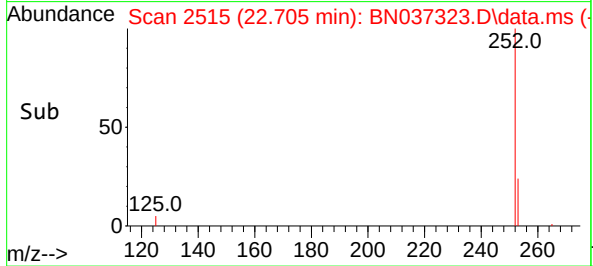
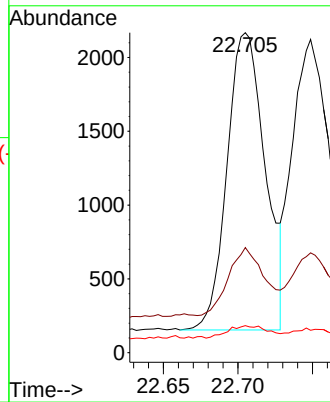
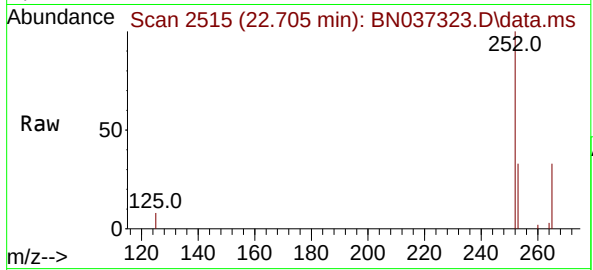




#37
Benzo(b)fluoranthene
Concen: 0.412 ng
RT: 22.705 min Scan# 2515
Delta R.T. -0.006 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

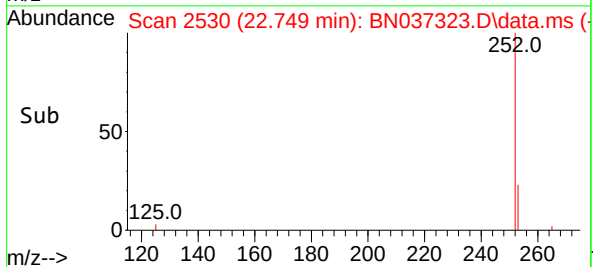
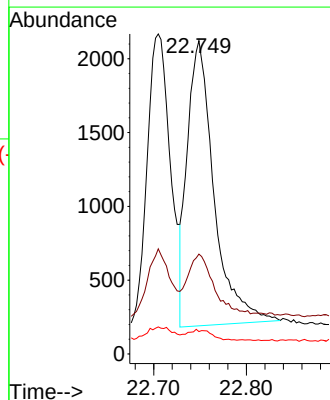
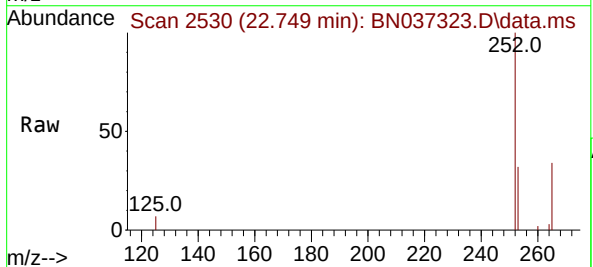
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

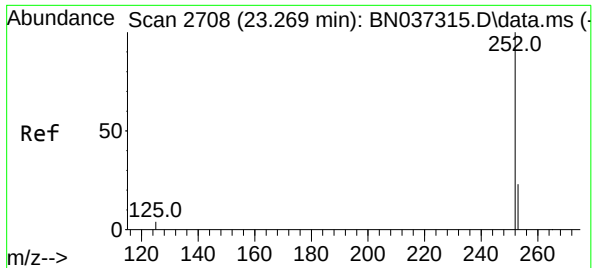
Tgt Ion:252 Resp: 3587
Ion Ratio Lower Upper
252 100
253 32.8 26.6 40.0
125 8.4 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.404 ng
RT: 22.749 min Scan# 2530
Delta R.T. -0.006 min
Lab File: BN037323.D
Acq: 18 Jun 2025 21:26

Tgt Ion:252 Resp: 3862
Ion Ratio Lower Upper
252 100
253 31.9 26.7 40.1
125 7.2 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.404 ng

RT: 23.263 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037323.D

Acq: 18 Jun 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

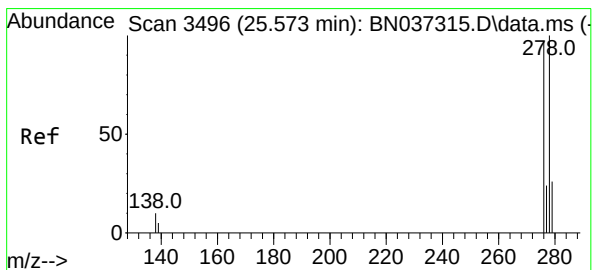
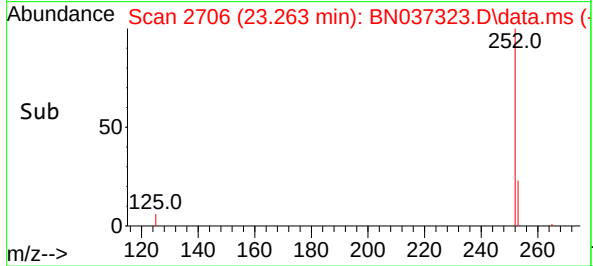
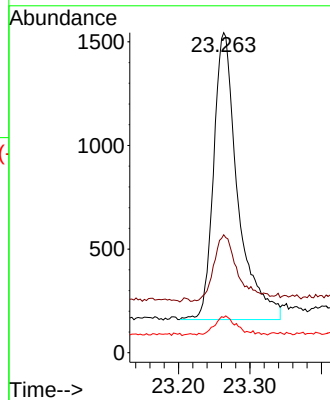
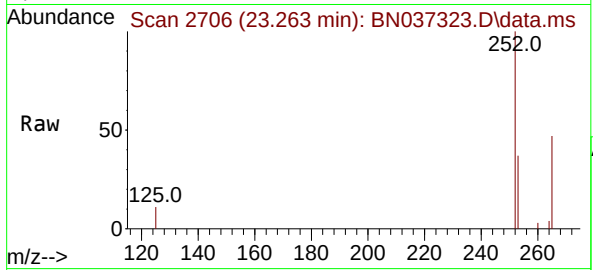
Tgt Ion:252 Resp: 3253

Ion Ratio Lower Upper

252 100

253 36.9 31.6 47.4

125 11.0 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

RT: 25.561 min Scan# 3492

Delta R.T. -0.012 min

Lab File: BN037323.D

Acq: 18 Jun 2025 21:26

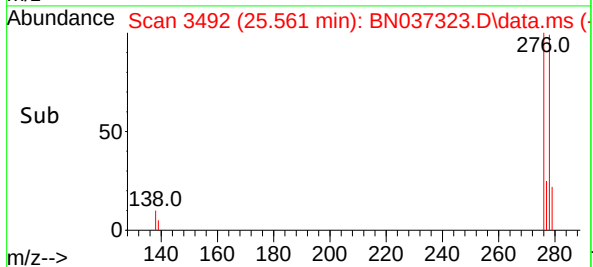
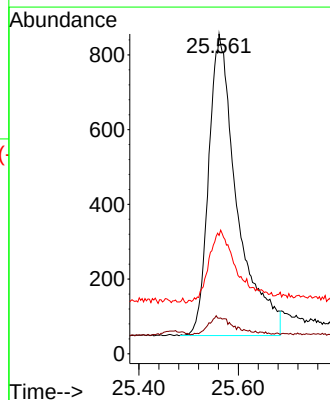
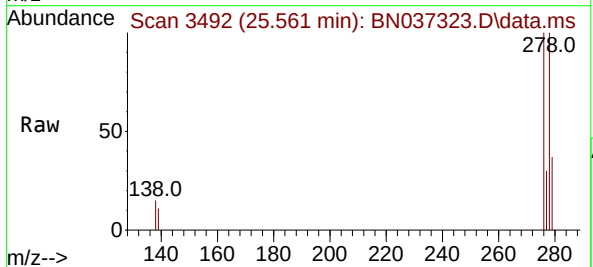
Tgt Ion:278 Resp: 3199

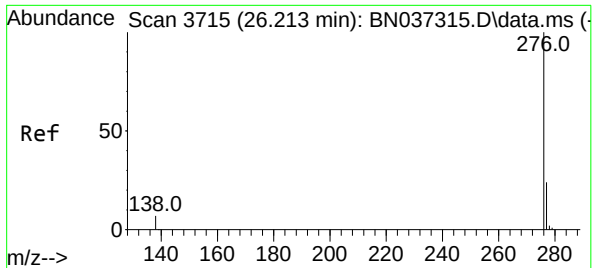
Ion Ratio Lower Upper

278 100

139 11.1 10.2 15.4

279 37.0 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.398 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037323.D

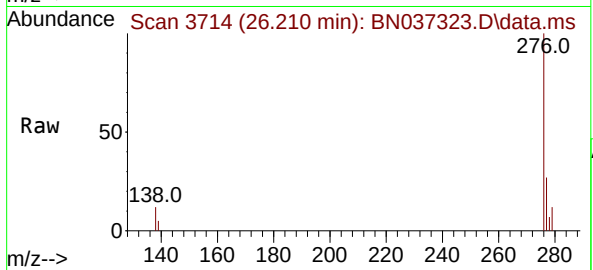
Acq: 18 Jun 2025 21:26

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



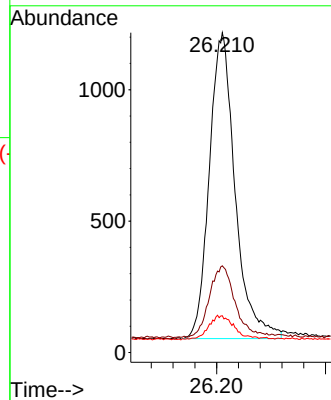
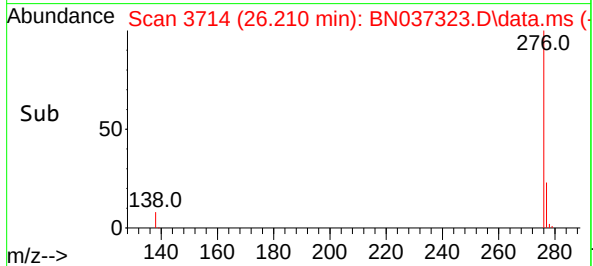
Tgt Ion:276 Resp: 3822

Ion Ratio Lower Upper

276 100

277 27.1 22.7 34.1

138 11.5 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037323.D
Acq On : 18 Jun 2025 21:26
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 19 02:40:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00
2	1,4-Dioxane	0.357	0.374	-4.8	108	0.00
3	n-Nitrosodimethylamine	0.414	0.415	-0.2	120	0.00
4 S	2-Fluorophenol	0.727	0.722	0.7	117	0.00
5 S	Phenol-d6	0.715	0.725	-1.4	120	0.00
6	bis(2-Chloroethyl)ether	0.612	0.629	-2.8	132	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
8 S	Nitrobenzene-d5	0.333	0.337	-1.2	117	-0.01
9	Naphthalene	1.035	1.033	0.2	114	0.00
10	Hexachlorobutadiene	0.524	0.527	-0.6	107	-0.01
11 SURR	2-Methylnaphthalene-d10	0.650	0.700	-7.7	116	0.00
12	2-Methylnaphthalene	0.729	0.721	1.1	116	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
14 S	2,4,6-Tribromophenol	0.295	0.291	1.4	113	0.00
15 S	2-Fluorobiphenyl	1.753	1.795	-2.4	115	0.00
16	Acenaphthylene	1.683	1.630	3.1	113	0.00
17	Acenaphthene	1.117	1.109	0.7	115	-0.01
18	Fluorene	1.584	1.572	0.8	115	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
20	4,6-Dinitro-2-methylphenol	0.123	0.104	15.4	127	0.00
21	4-Bromophenyl-phenylether	0.332	0.310	6.6	111	0.00
22	Hexachlorobenzene	0.348	0.351	-0.9	110	0.00
23	Atrazine	0.259	0.245	5.4	114	0.00
24	Pentachlorophenol	0.193	0.182	5.7	121	-0.01
25	Phenanthrene	1.126	1.088	3.4	115	0.00
26	Anthracene	1.056	1.021	3.3	117	0.00
27 SURR	Fluoranthene-d10	1.268	1.254	1.1	108	0.00
28	Fluoranthene	1.564	1.466	6.3	112	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	113	0.00
30	Pyrene	1.523	1.569	-3.0	111	0.00
31 S	Terphenyl-d14	0.918	0.934	-1.7	110	0.00
32	Benzo(a)anthracene	1.288	1.239	3.8	117	0.00
33	Chrysene	1.644	1.612	1.9	111	0.00
34	Bis(2-ethylhexyl)phthalate	0.528	0.556	-5.3	117	0.00
35 I	Perylene-d12	1.000	1.000	0.0	110	0.00
36	Indeno(1,2,3-cd)pyrene	1.682	1.708	-1.5	117	-0.01
37	Benzo(b)fluoranthene	1.397	1.441	-3.1	122	0.00
38	Benzo(k)fluoranthene	1.535	1.551	-1.0	111	0.00
39 C	Benzo(a)pyrene	1.294	1.306	-0.9	115	0.00
40	Dibenzo(a,h)anthracene	1.351	1.285	4.9	114	-0.01
41	Benzo(g,h,i)perylene	1.542	1.535	0.5	114	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037323.D
Acq On : 18 Jun 2025 21:26
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 19 02:40:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	117	0.00
2	1,4-Dioxane	0.400	0.419	-4.7	108	0.00
3	n-Nitrosodimethylamine	0.400	0.401	-0.3	120	0.00
4 S	2-Fluorophenol	0.400	0.397	0.8	117	0.00
5 S	Phenol-d6	0.400	0.406	-1.5	120	0.00
6	bis(2-Chloroethyl)ether	0.400	0.411	-2.7	132	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	114	0.00
8 S	Nitrobenzene-d5	0.400	0.404	-1.0	117	-0.01
9	Naphthalene	0.400	0.399	0.3	114	0.00
10	Hexachlorobutadiene	0.400	0.402	-0.5	107	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.431	-7.7	116	0.00
12	2-Methylnaphthalene	0.400	0.396	1.0	116	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	113	0.00
14 S	2,4,6-Tribromophenol	0.400	0.395	1.3	113	0.00
15 S	2-Fluorobiphenyl	0.400	0.410	-2.5	115	0.00
16	Acenaphthylene	0.400	0.387	3.3	113	0.00
17	Acenaphthene	0.400	0.397	0.8	115	-0.01
18	Fluorene	0.400	0.397	0.8	115	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	114	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.340	15.0	127	0.00
21	4-Bromophenyl-phenylether	0.400	0.373	6.8	111	0.00
22	Hexachlorobenzene	0.400	0.404	-1.0	110	0.00
23	Atrazine	0.400	0.378	5.5	114	0.00
24	Pentachlorophenol	0.400	0.377	5.8	121	-0.01
25	Phenanthrene	0.400	0.386	3.5	115	0.00
26	Anthracene	0.400	0.386	3.5	117	0.00
27 SURR	Fluoranthene-d10	0.400	0.396	1.0	108	0.00
28	Fluoranthene	0.400	0.375	6.3	112	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	113	0.00
30	Pyrene	0.400	0.412	-3.0	111	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	110	0.00
32	Benzo(a)anthracene	0.400	0.385	3.8	117	0.00
33	Chrysene	0.400	0.392	2.0	111	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.421	-5.2	117	0.00
35 I	Perylene-d12	0.400	0.400	0.0	110	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.406	-1.5	117	-0.01
37	Benzo(b)fluoranthene	0.400	0.412	-3.0	122	0.00
38	Benzo(k)fluoranthene	0.400	0.404	-1.0	111	0.00
39 C	Benzo(a)pyrene	0.400	0.404	-1.0	115	0.00
40	Dibenzo(a,h)anthracene	0.400	0.380	5.0	114	-0.01
41	Benzo(g,h,i)perylene	0.400	0.398	0.5	114	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2329 SAS No.: Q2329 SDG No.: Q2329

Instrument ID: BNA_N Calibration Date/Time: 06/19/2025 07:06

Lab File ID: BN037338.D Init. Calib. Date(s): 06/18/2025 06/18/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 14:06 17:43

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.650	0.706		8.6	50.0
Fluoranthene-d10	1.268	1.307		3.1	50.0
2-Fluorophenol	0.727	0.740		1.8	50.0
Phenol-d6	0.715	0.739		3.4	50.0
Nitrobenzene-d5	0.333	0.352		5.7	50.0
2-Fluorobiphenyl	1.753	1.672		-4.6	50.0
2,4,6-Tribromophenol	0.295	0.257		-12.9	50.0
Terphenyl-d14	0.918	0.879		-4.2	50.0
1,4-Dioxane	0.357	0.318		-10.9	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037338.D
 Acq On : 19 Jun 2025 07:06
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 19 08:40:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

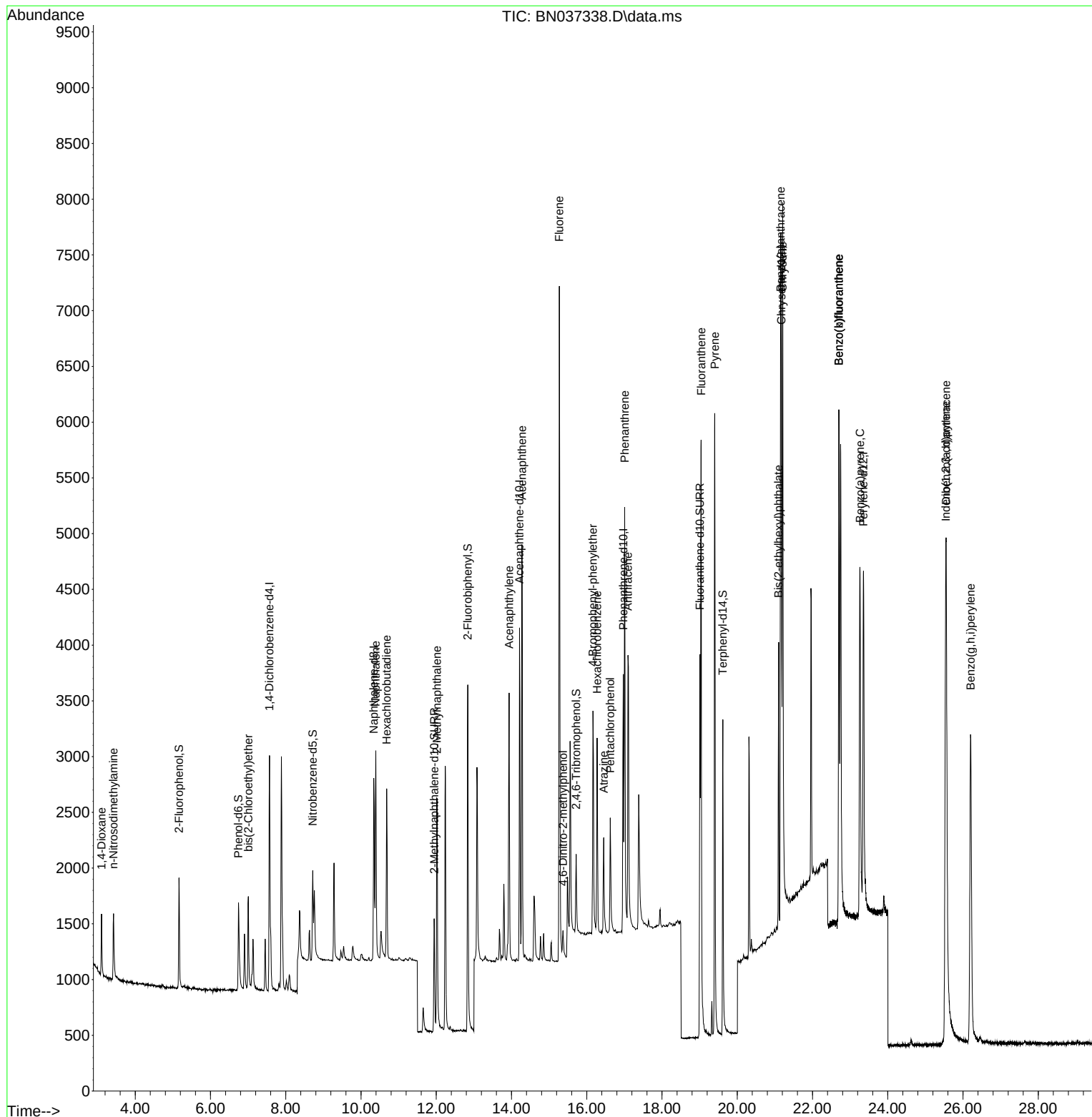
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1113	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	2382	0.400	ng	-0.01
13) Acenaphthene-d10	14.213	164	1845	0.400	ng	-0.01
19) Phenanthrene-d10	16.971	188	3718	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	4022	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	4432	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	824	0.407	ng	0.00
5) Phenol-d6	6.744	99	822	0.413	ng	-0.01
8) Nitrobenzene-d5	8.717	82	838	0.422	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	1681	0.434	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	474	0.348	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	3085	0.382	ng	0.00
27) Fluoranthene-d10	19.007	212	4858	0.412	ng	0.00
31) Terphenyl-d14	19.616	244	3537	0.383	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	354	0.356	ng	# 84
3) n-Nitrosodimethylamine	3.422	42	501	0.435	ng	# 92
6) bis(2-Chloroethyl)ether	7.004	93	760	0.446	ng	95
9) Naphthalene	10.393	128	2491	0.404	ng	# 91
10) Hexachlorobutadiene	10.682	225	1263	0.405	ng	# 100
12) 2-Methylnaphthalene	12.016	142	1782	0.411	ng	97
16) Acenaphthylene	13.935	152	2739	0.353	ng	100
17) Acenaphthene	14.277	154	1810	0.351	ng	98
18) Fluorene	15.271	166	2602	0.356	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	416	0.364	ng	# 75
21) 4-Bromophenyl-phenylether	16.164	248	1169	0.379	ng	# 86
22) Hexachlorobenzene	16.276	284	1252	0.387	ng	98
23) Atrazine	16.450	200	931	0.386	ng	# 89
24) Pentachlorophenol	16.624	266	670	0.374	ng	96
25) Phenanthrene	17.009	178	4069	0.389	ng	100
26) Anthracene	17.095	178	3708	0.378	ng	99
28) Fluoranthene	19.040	202	5640	0.388	ng	99
30) Pyrene	19.402	202	5903	0.385	ng	100
32) Benzo(a)anthracene	21.153	228	5224	0.403	ng	98
33) Chrysene	21.206	228	6306	0.381	ng	97
34) Bis(2-ethylhexyl)phtha...	21.099	149	2060	0.388	ng	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	7414	0.398	ng	# 92
37) Benzo(b)fluoranthene	22.702	252	6091	0.393	ng	92
38) Benzo(k)fluoranthene	22.702	252	6091	0.358	ng	92
39) Benzo(a)pyrene	23.260	252	5521	0.385	ng	90
40) Dibenzo(a,h)anthracene	25.552	278	5778	0.386	ng	# 83
41) Benzo(g,h,i)perylene	26.201	276	6613	0.387	ng	95

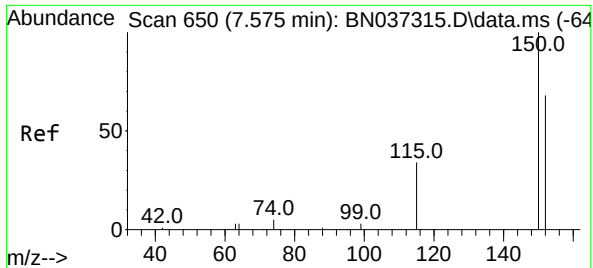
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037338.D
Acq On : 19 Jun 2025 07:06
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 19 08:40:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

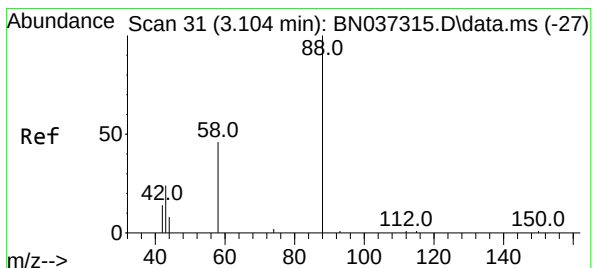
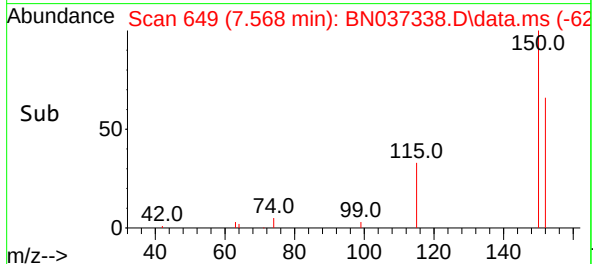
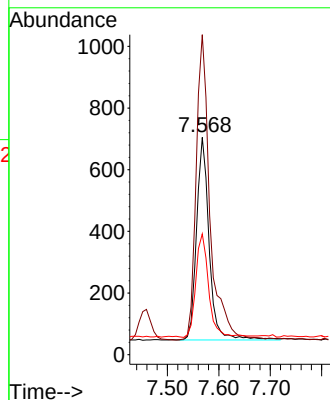
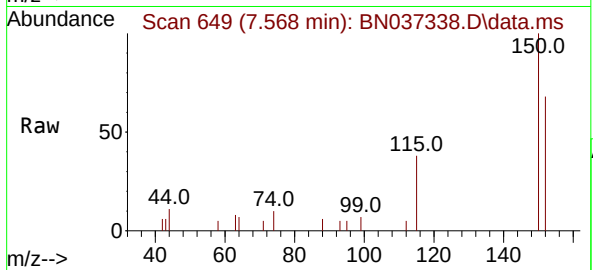




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

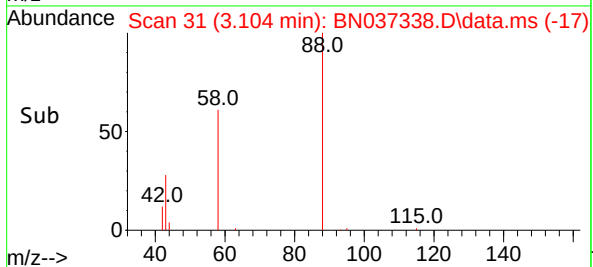
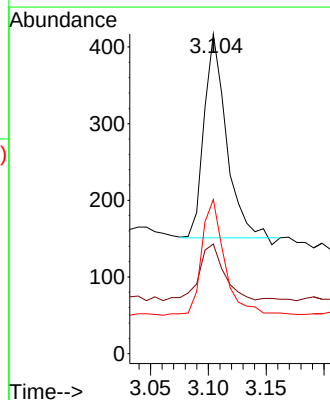
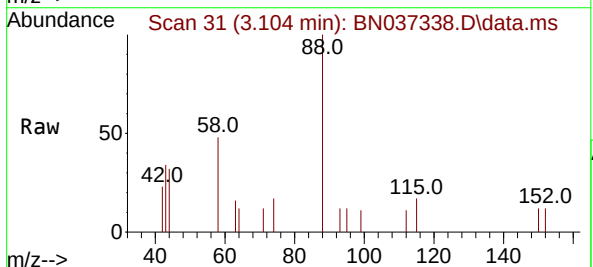
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

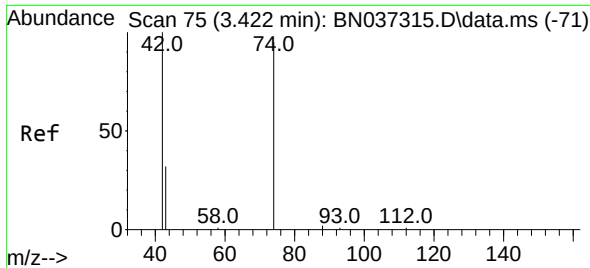
Tgt Ion:152 Resp: 1113
Ion Ratio Lower Upper
152 100
150 147.2 112.7 169.1
115 55.6 45.9 68.9



#2
1,4-Dioxane
Concen: 0.356 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion: 88 Resp: 354
Ion Ratio Lower Upper
88 100
43 31.9 21.0 31.6#
58 59.6 38.0 57.0#

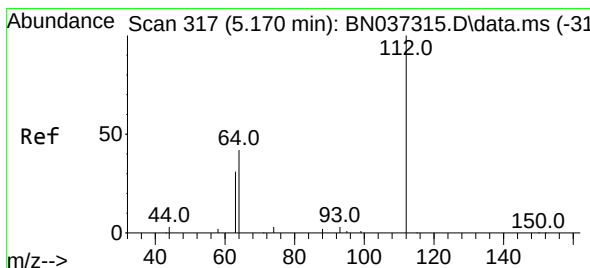
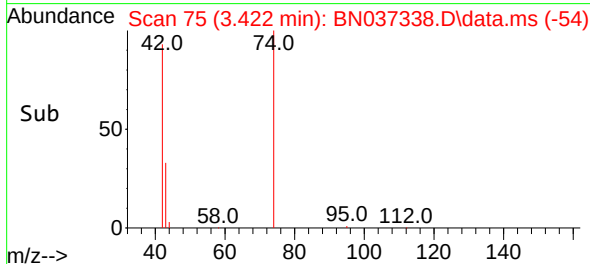
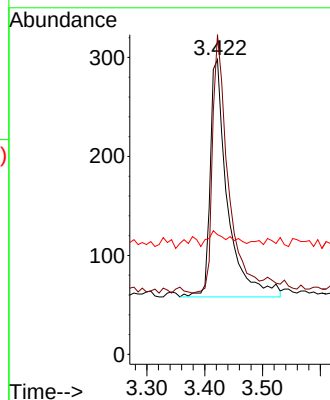
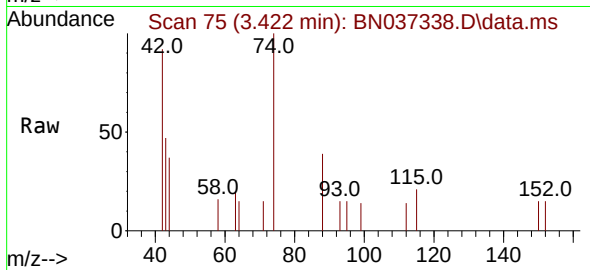




#3
n-Nitrosodimethylamine
Concen: 0.435 ng
RT: 3.422 min Scan# 71
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

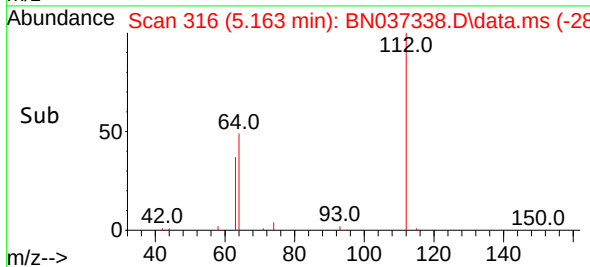
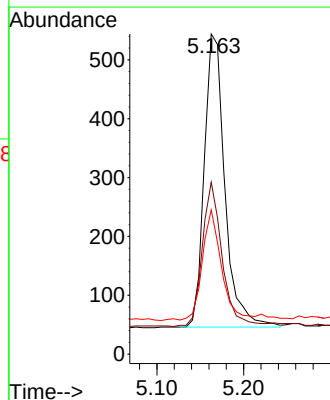
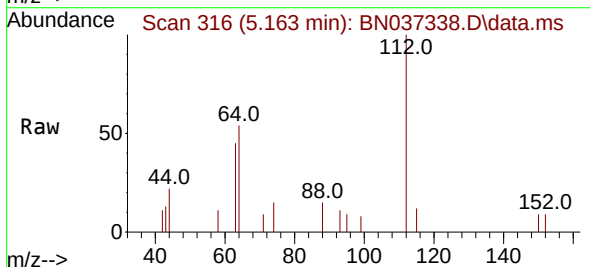
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

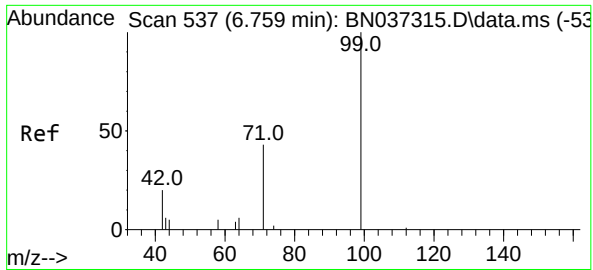
Tgt Ion: 42 Resp: 501
Ion Ratio Lower Upper
42 100
74 97.6 84.3 126.5
44 8.4 5.0 7.4#



#4
2-Fluorophenol
Concen: 0.407 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.007 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion: 112 Resp: 824
Ion Ratio Lower Upper
112 100
64 47.3 38.7 58.1
63 35.4 26.4 39.6

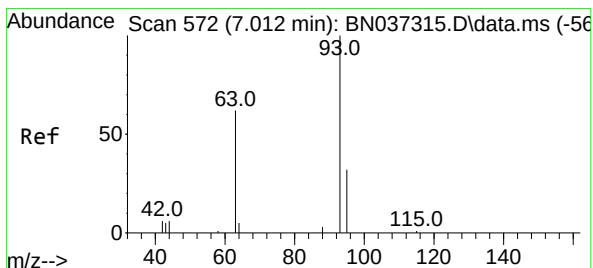
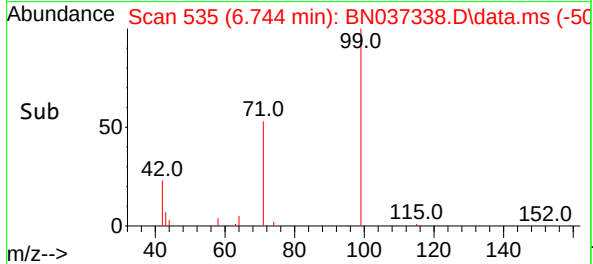
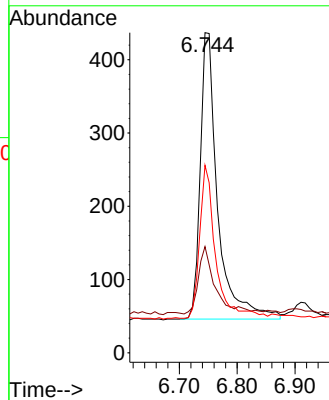
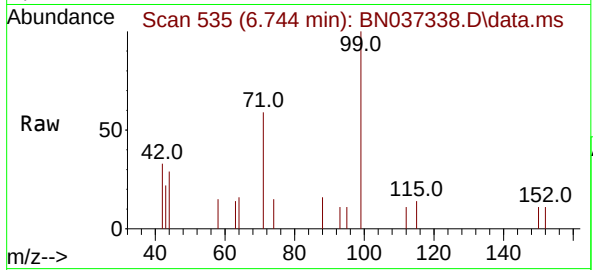




#5
Phenol-d6
Concen: 0.413 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.015 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

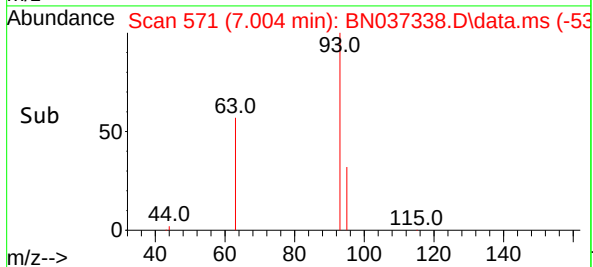
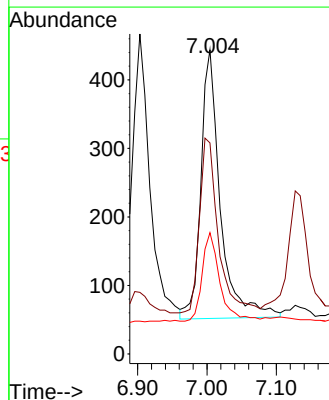
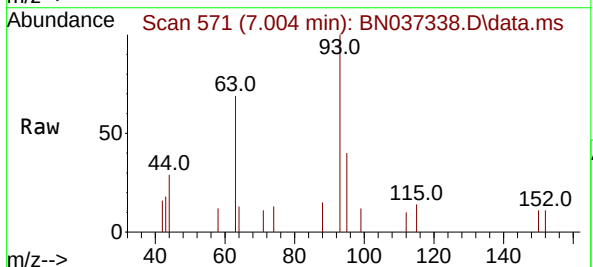
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

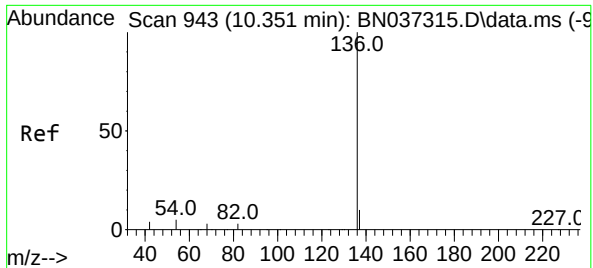
Tgt Ion	Ratio	Lower	Upper
99	100		
42	23.1	19.8	29.8
71	48.9	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.446 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion	Ratio	Lower	Upper
93	100		
63	62.9	53.2	79.8
95	30.0	27.3	40.9

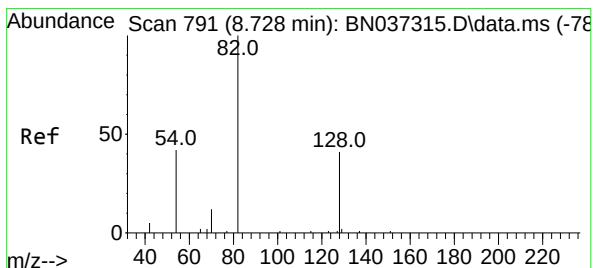
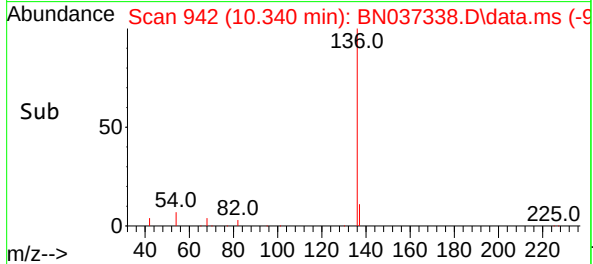
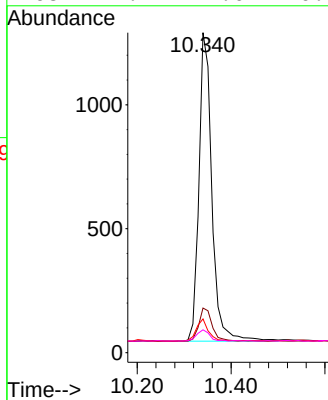
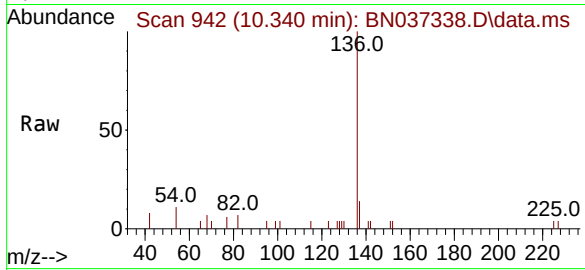




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

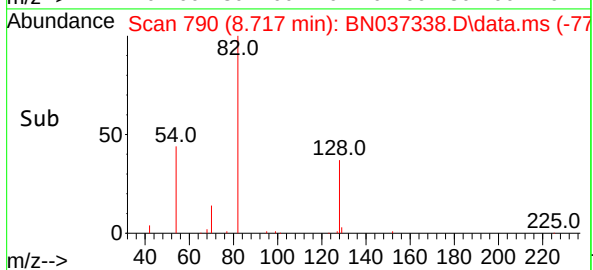
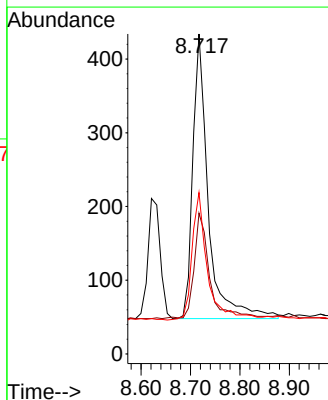
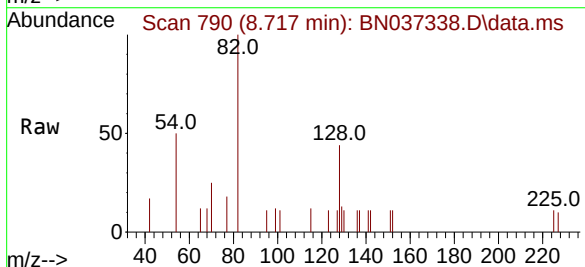
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

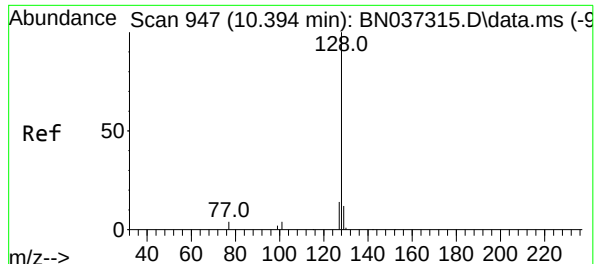
Tgt Ion:	136	Resp:	2382
Ion	Ratio	Lower	Upper
136	100		
137	13.9	12.2	18.2
54	10.5	8.8	13.2
68	7.1	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.422 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:	82	Resp:	838
Ion	Ratio	Lower	Upper
82	100		
128	44.0	42.5	63.7
54	50.5	43.2	64.8





#9

Naphthalene

Concen: 0.404 ng

RT: 10.393 min Scan# 94

Delta R.T. -0.000 min

Lab File: BN037338.D

Acq: 19 Jun 2025 07:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

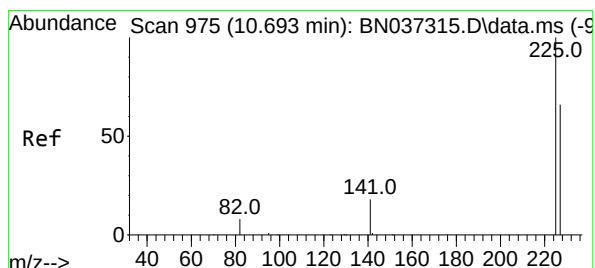
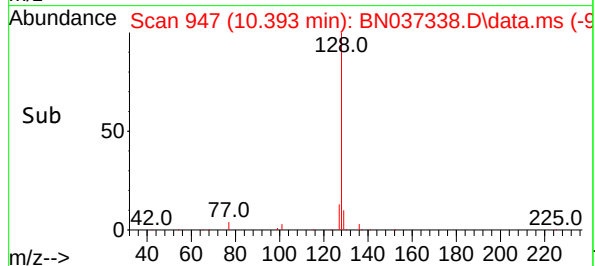
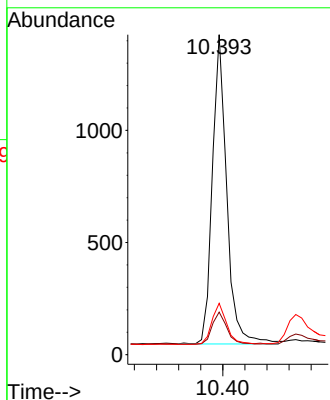
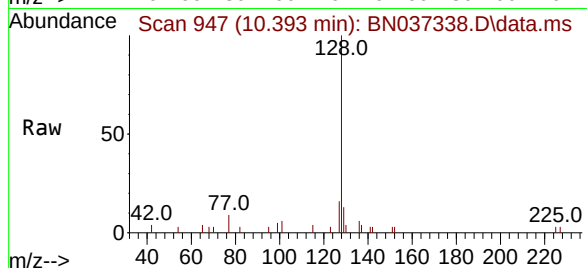
Tgt Ion:128 Resp: 2491

Ion Ratio Lower Upper

128 100

129 13.3 14.0 21.0#

127 16.0 15.8 23.8



#10

Hexachlorobutadiene

Concen: 0.405 ng

RT: 10.682 min Scan# 974

Delta R.T. -0.011 min

Lab File: BN037338.D

Acq: 19 Jun 2025 07:06

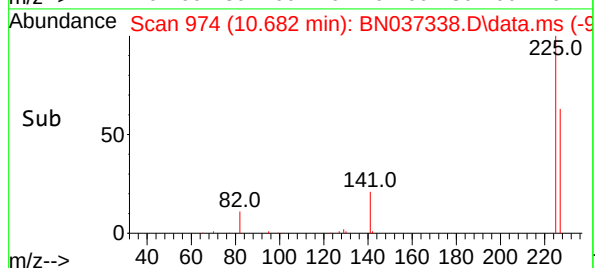
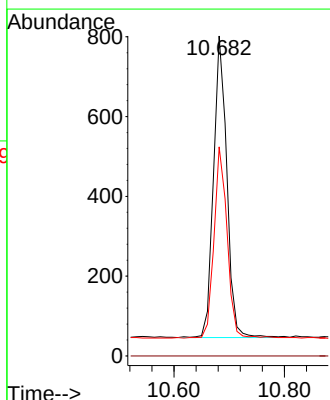
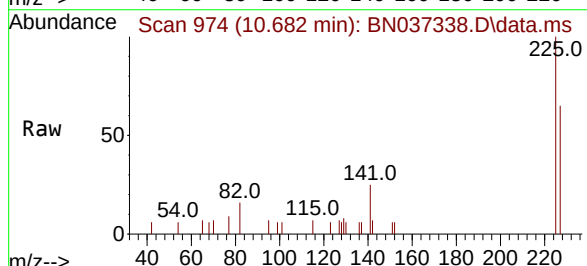
Tgt Ion:225 Resp: 1263

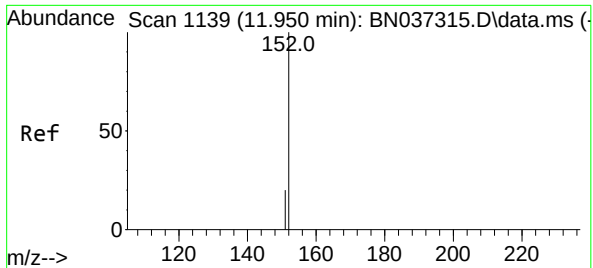
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 62.6 50.3 75.5

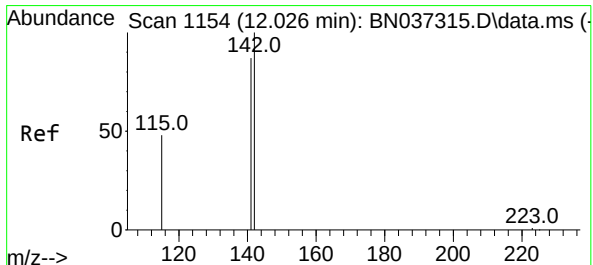
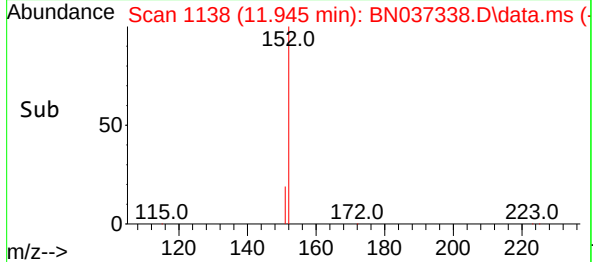
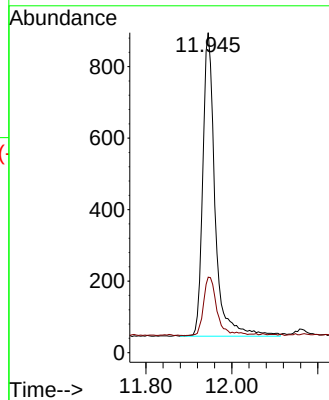
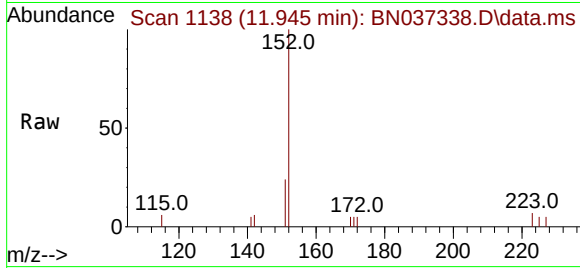




#11
2-Methylnaphthalene-d10
Concen: 0.434 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

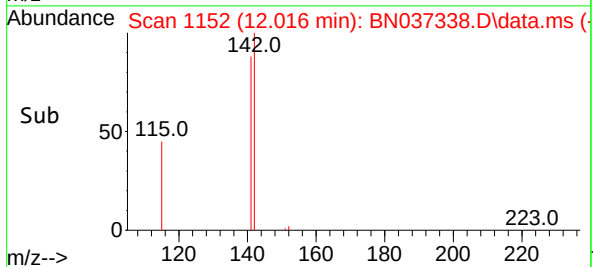
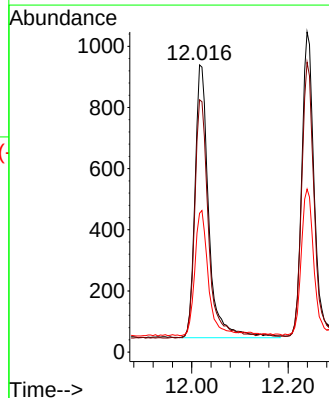
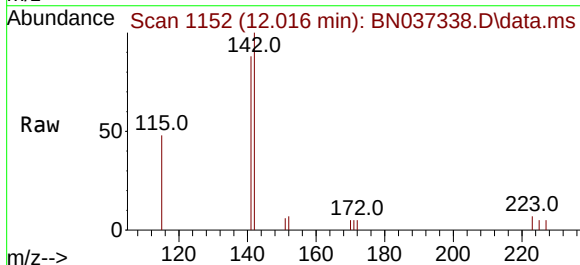
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

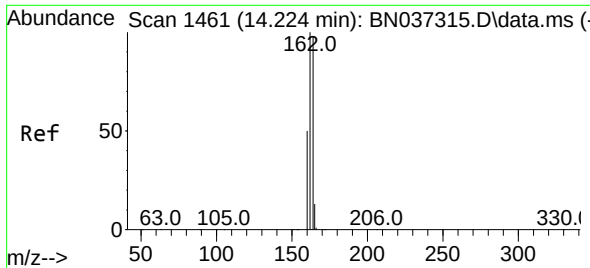
Tgt Ion:152 Resp: 1681
Ion Ratio Lower Upper
152 100
151 20.7 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.411 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.010 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:142 Resp: 1782
Ion Ratio Lower Upper
142 100
141 87.9 70.2 105.2
115 48.3 43.0 64.4

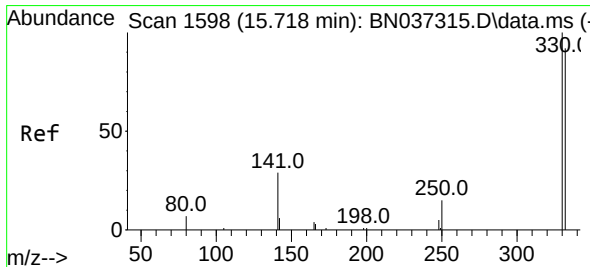
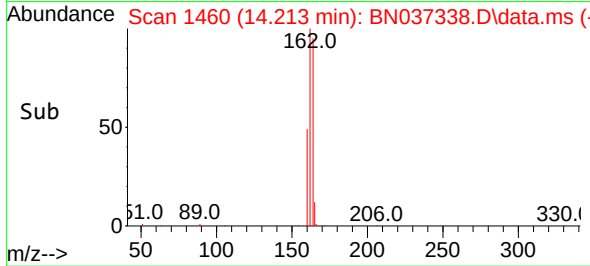
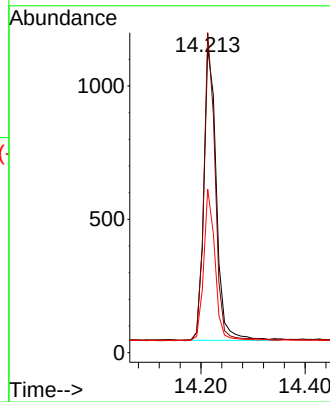
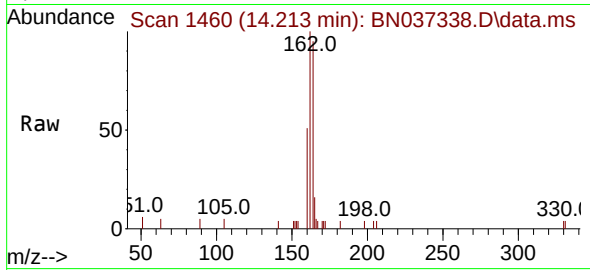




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.011 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

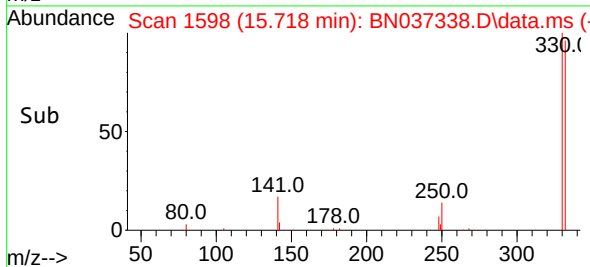
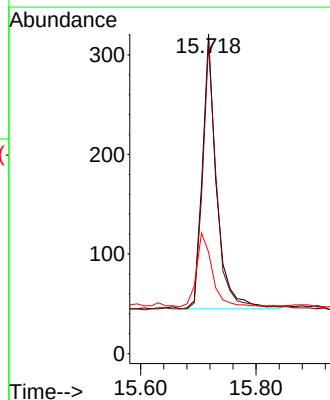
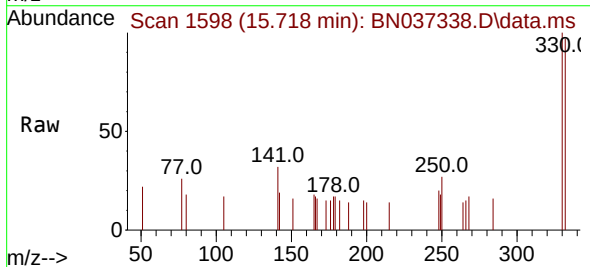
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

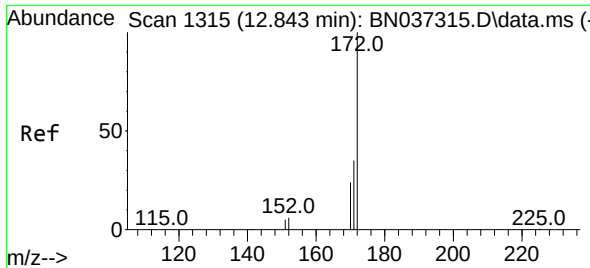
Tgt Ion:164 Resp: 1845
Ion Ratio Lower Upper
164 100
162 105.1 81.5 122.3
160 53.7 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.348 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:330 Resp: 474
Ion Ratio Lower Upper
330 100
332 94.9 78.4 117.6
141 29.7 24.4 36.6

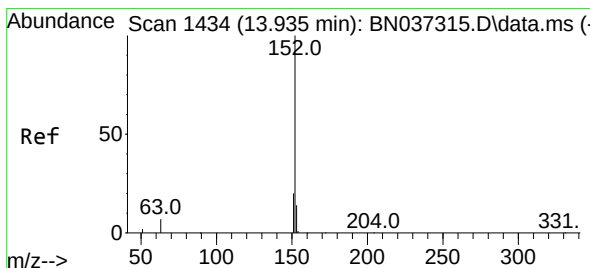
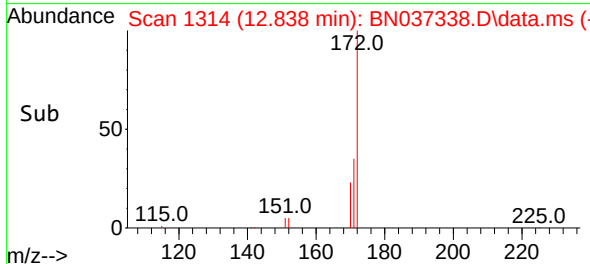
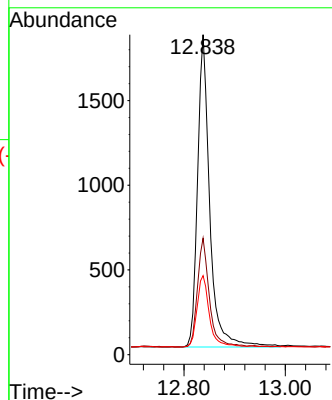
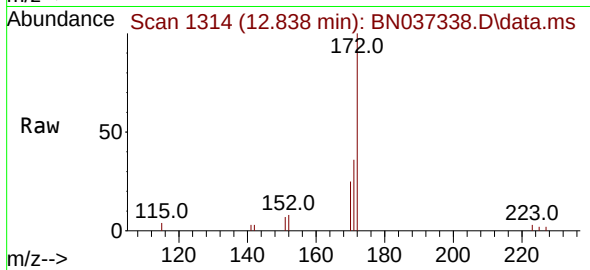




#15
2-Fluorobiphenyl
Concen: 0.382 ng
RT: 12.838 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

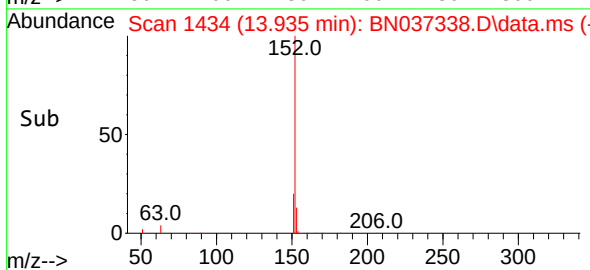
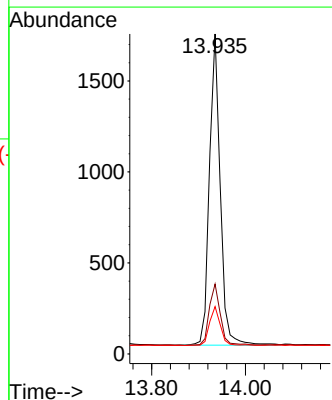
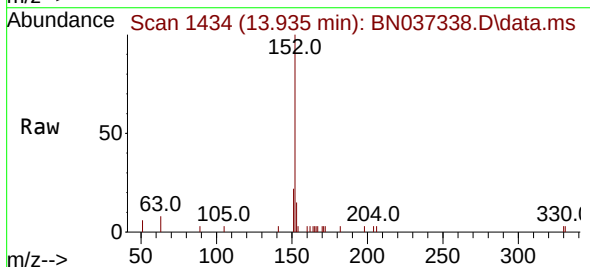
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

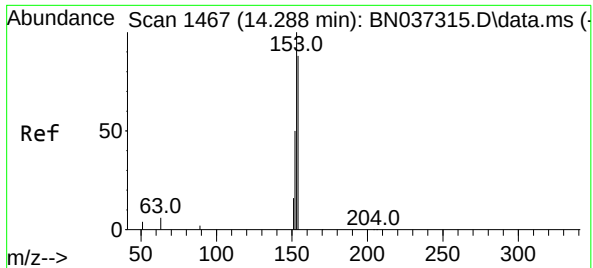
Tgt Ion:	172	Resp:	3085
Ion Ratio	Lower	Upper	
172	100		
171	36.4	30.8	46.2
170	24.7	21.9	32.9



#16
Acenaphthylene
Concen: 0.353 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:	152	Resp:	2739
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.6	24.8
153	12.8	10.2	15.2

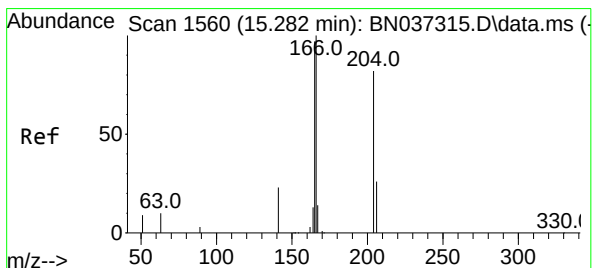
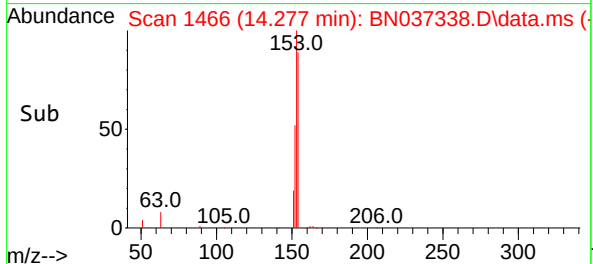
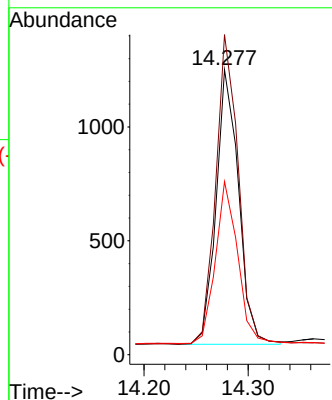
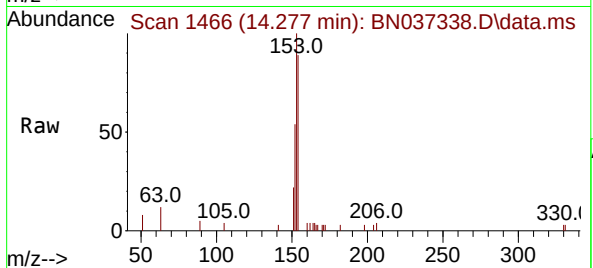




#17
Acenaphthene
Concen: 0.351 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

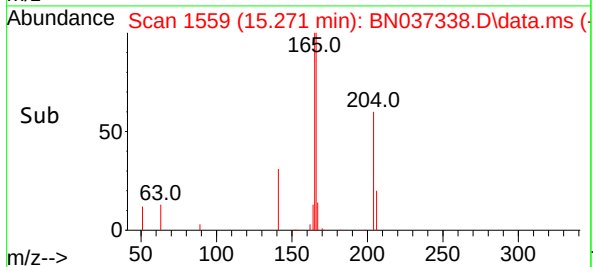
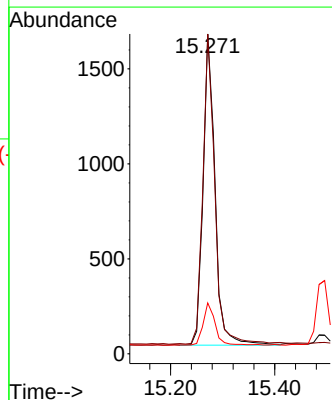
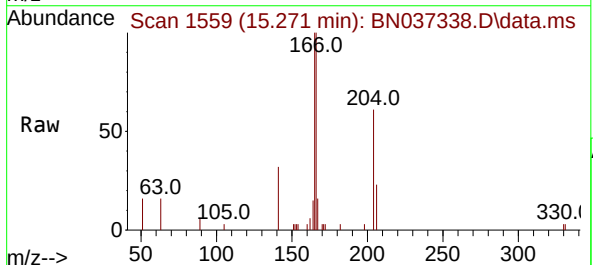
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

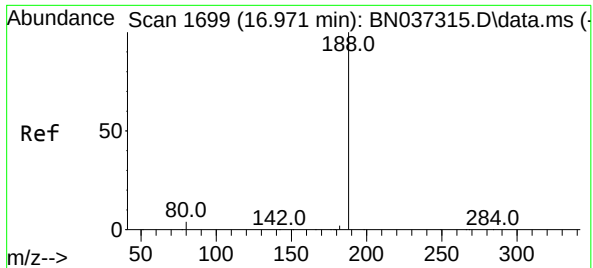
Tgt Ion:154 Resp: 1810
Ion Ratio Lower Upper
154 100
153 114.4 93.1 139.7
152 58.5 48.6 73.0



#18
Fluorene
Concen: 0.356 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:166 Resp: 2602
Ion Ratio Lower Upper
166 100
165 99.9 79.5 119.3
167 13.7 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: BN037338.D

Acq: 19 Jun 2025 07:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

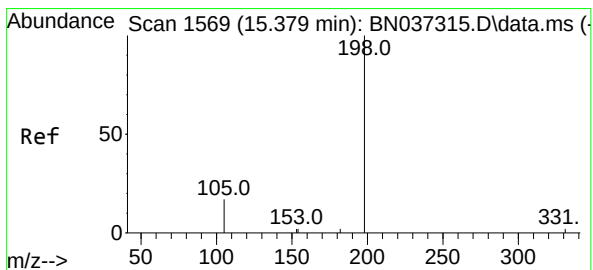
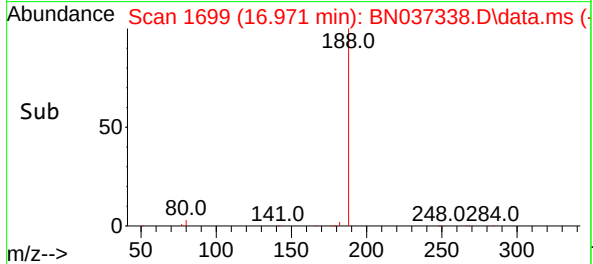
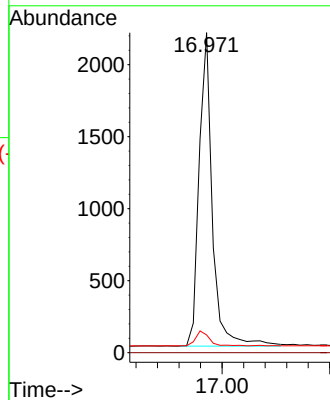
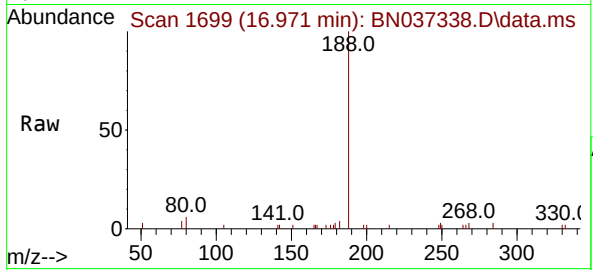
Tgt Ion:188 Resp: 3718

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: 0.364 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.011 min

Lab File: BN037338.D

Acq: 19 Jun 2025 07:06

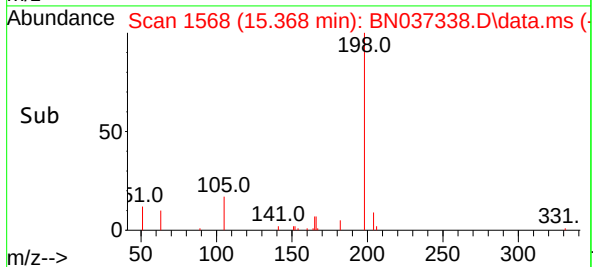
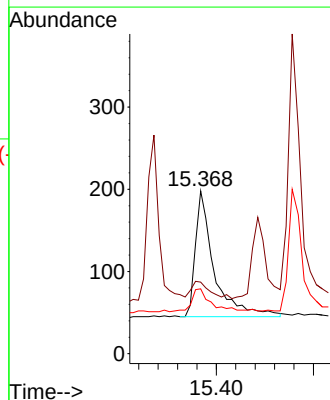
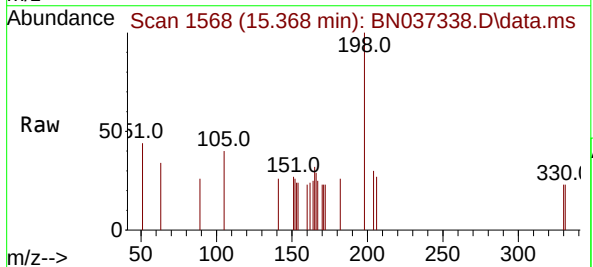
Tgt Ion:198 Resp: 416

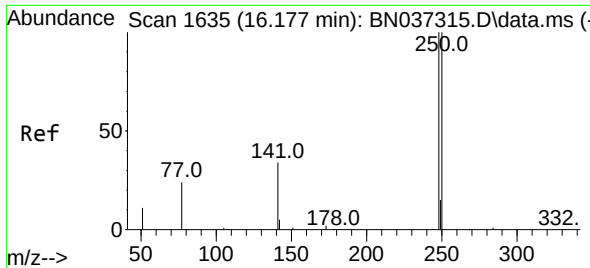
Ion Ratio Lower Upper

198 100

51 43.9 51.4 77.0#

105 39.9 45.5 68.3#

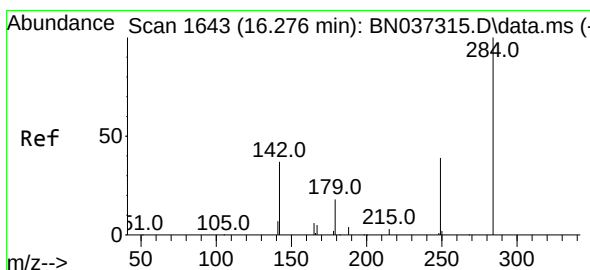
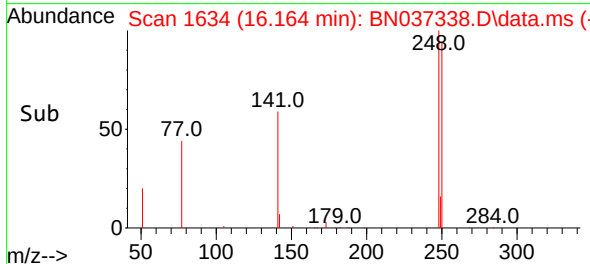
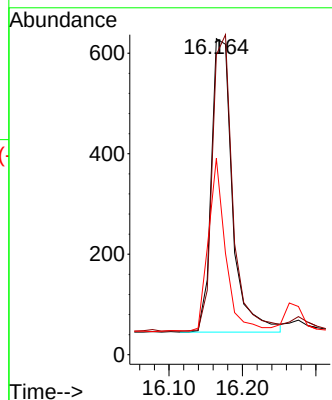
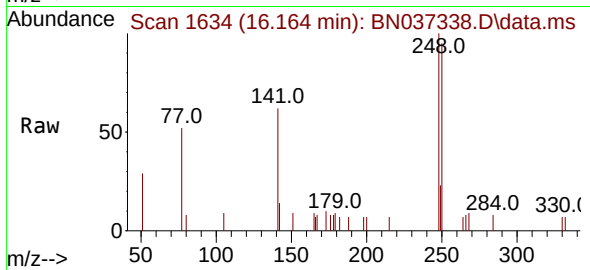




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.013 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

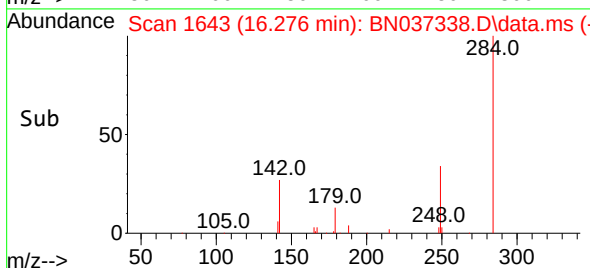
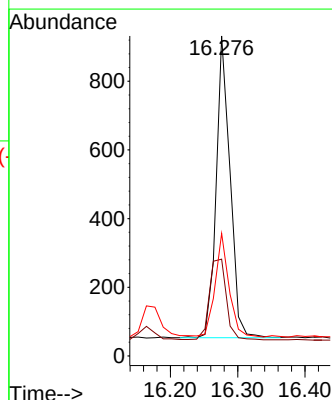
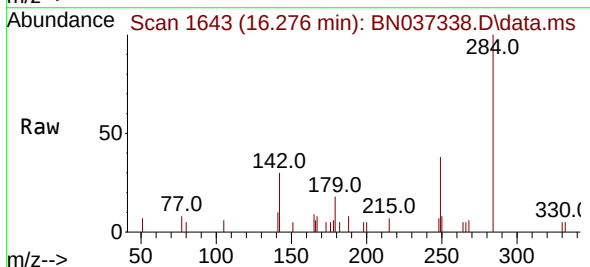
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

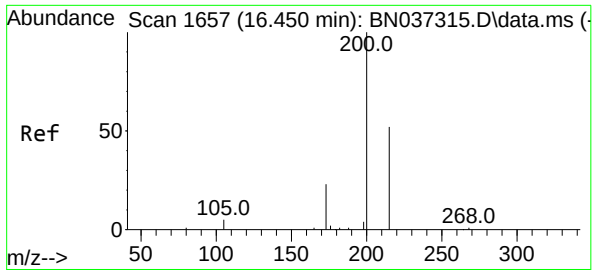
Tgt Ion:248 Resp: 1169
Ion Ratio Lower Upper
248 100
250 94.9 80.4 120.6
141 62.2 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:284 Resp: 1252
Ion Ratio Lower Upper
284 100
142 32.7 27.0 40.6
249 34.4 28.8 43.2

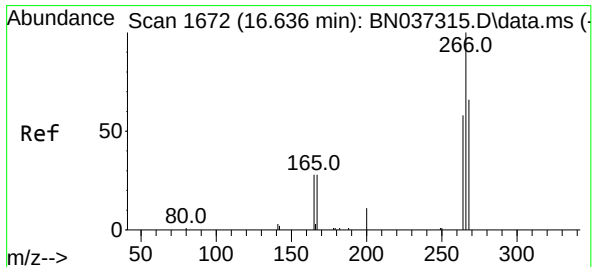
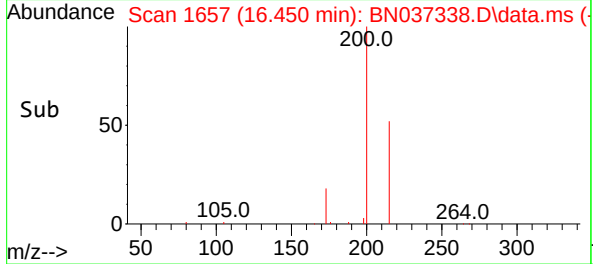
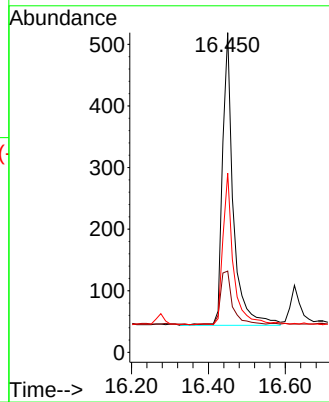
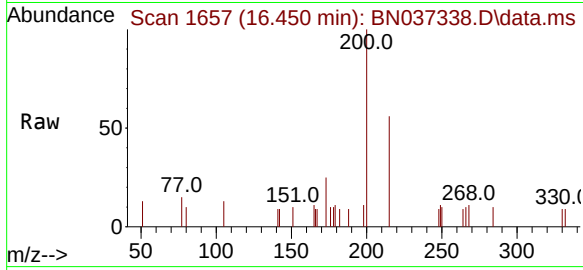




#23
Atrazine
Concen: 0.386 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

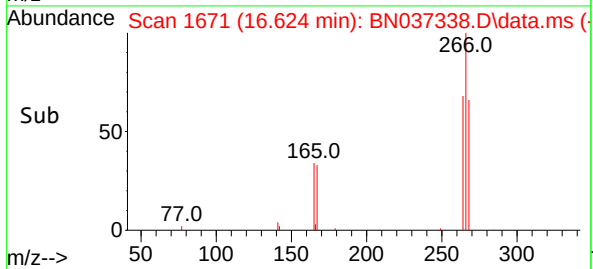
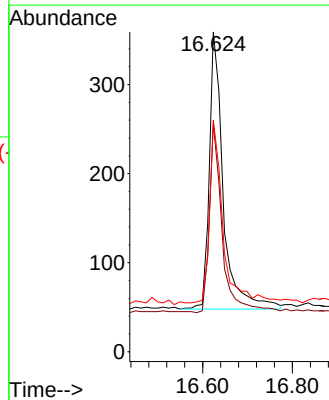
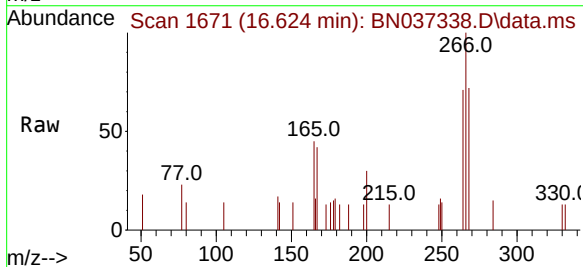
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

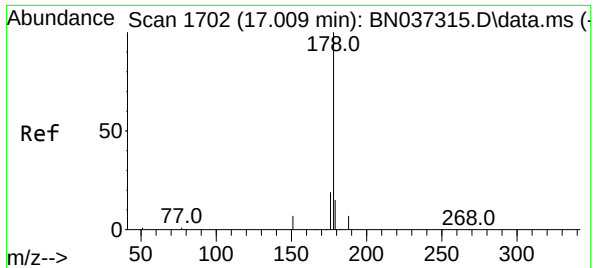
Tgt Ion	Ratio	Lower	Upper
200	100		
173	25.4	29.2	43.8#
215	56.1	48.8	73.2



#24
Pentachlorophenol
Concen: 0.374 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.013 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.7	50.3	75.5
268	62.7	55.3	82.9

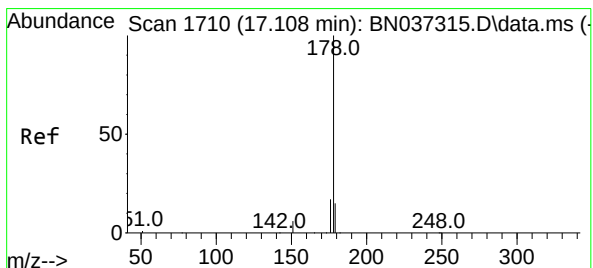
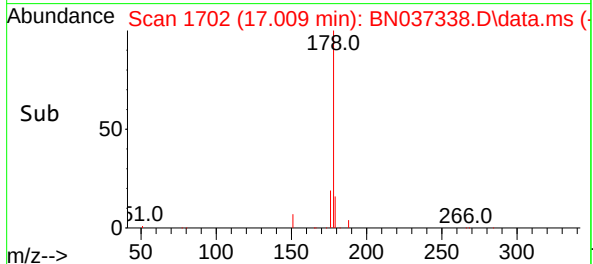
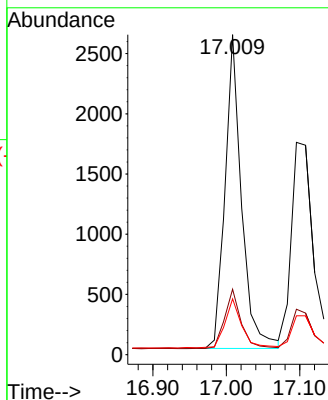
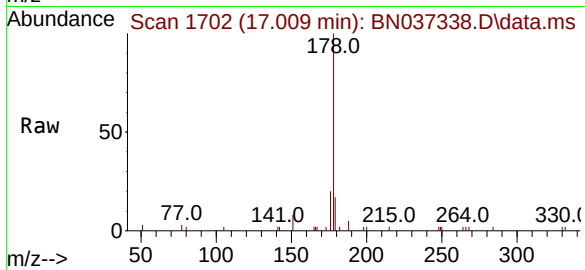




#25
Phenanthrene
Concen: 0.389 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

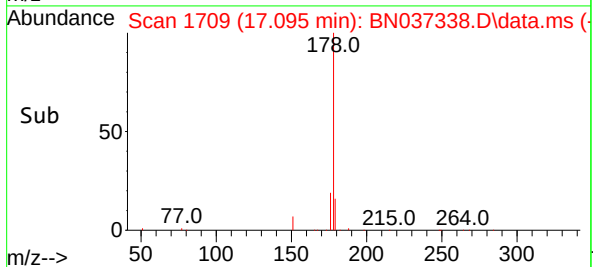
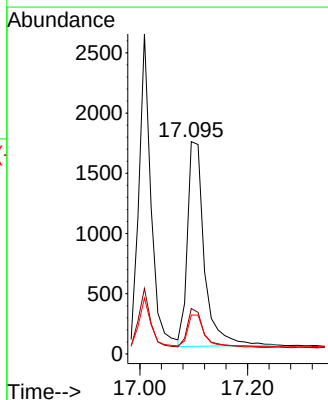
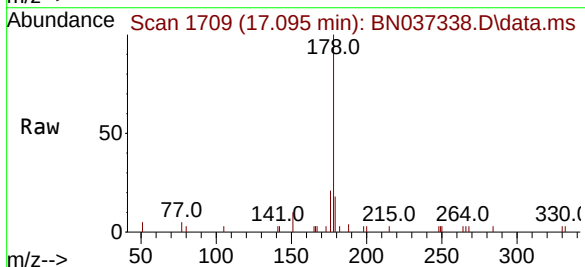
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

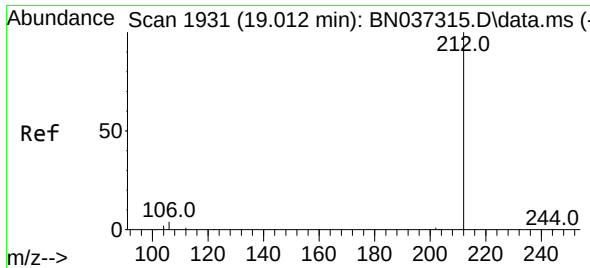
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.2	22.8
179	16.2	12.9	19.3



#26
Anthracene
Concen: 0.378 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.013 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

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

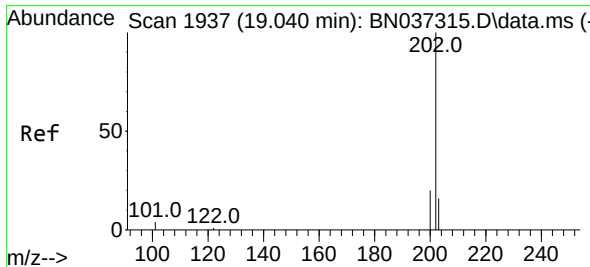
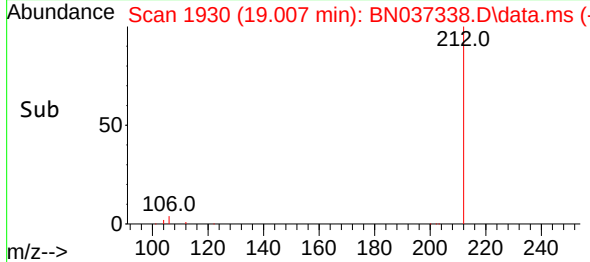
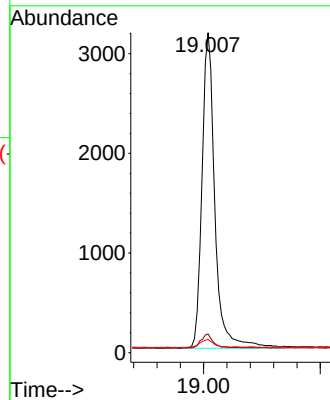
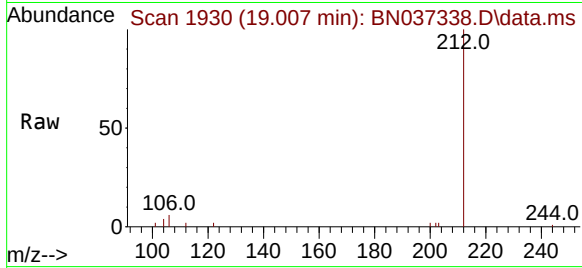




#27
Fluoranthene-d10
Concen: 0.412 ng
RT: 19.007 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

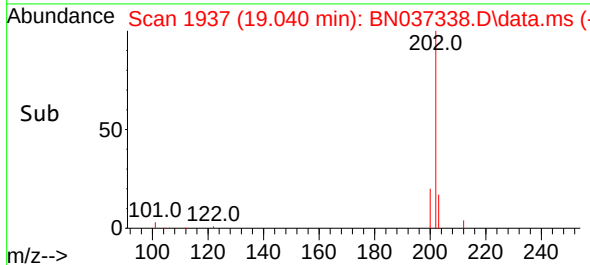
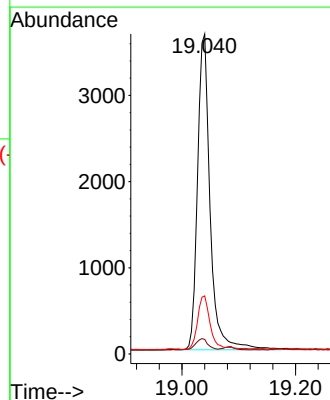
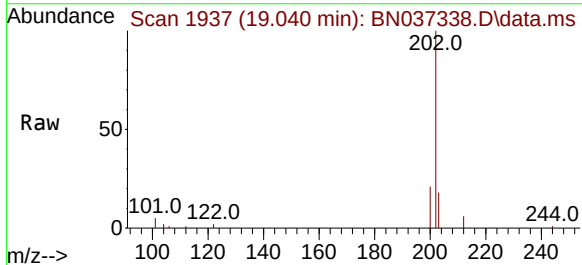
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

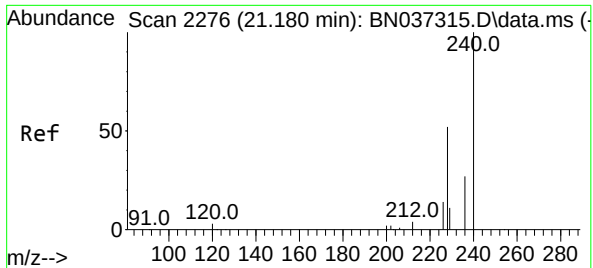
Tgt Ion:	212	Resp:	4858
Ion Ratio	Lower	Upper	
212	100		
106	4.4	3.0	4.4
104	2.8	2.0	3.0



#28
Fluoranthene
Concen: 0.388 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:	202	Resp:	5640
Ion Ratio	Lower	Upper	
202	100		
101	3.6	3.0	4.6
203	16.9	13.7	20.5

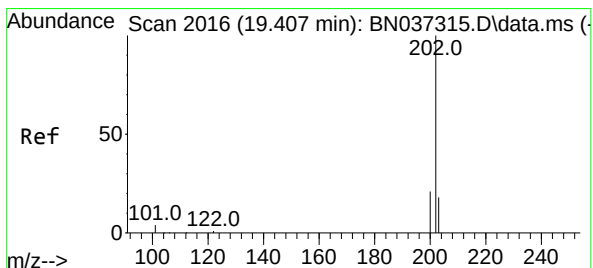
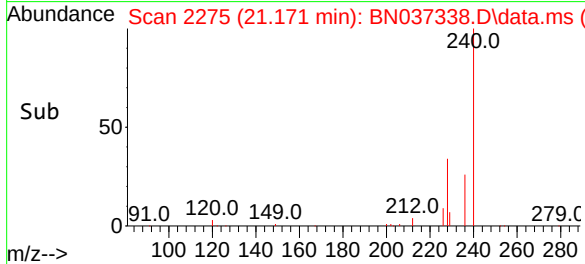
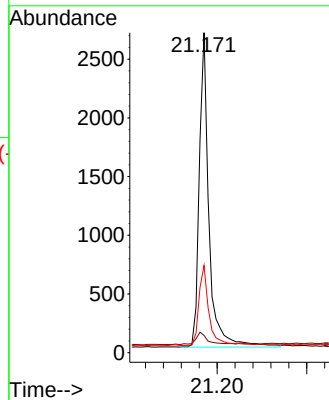
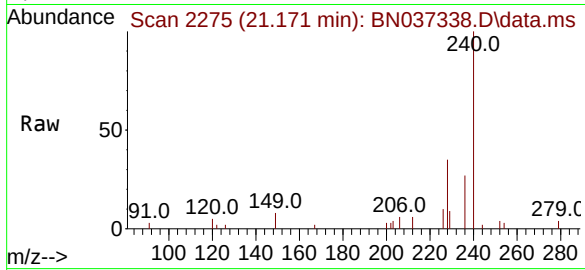




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

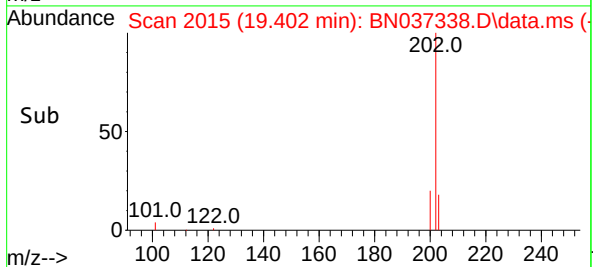
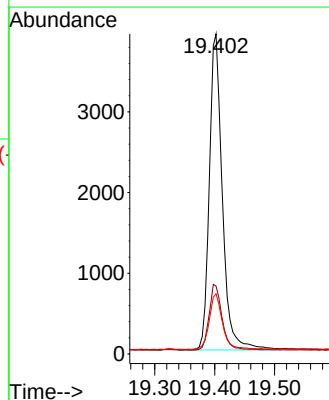
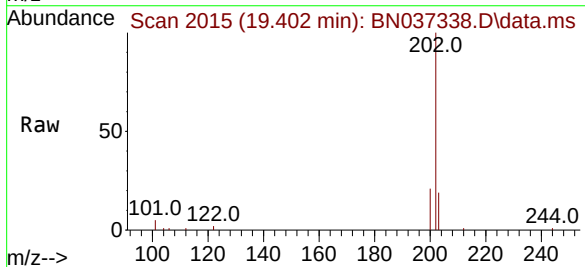
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

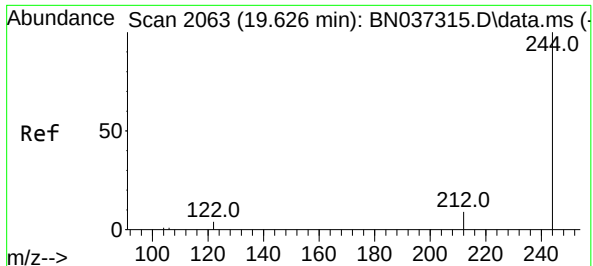
Tgt Ion:240 Resp: 4022
Ion Ratio Lower Upper
240 100
120 5.4 7.5 11.3#
236 27.3 24.9 37.3



#30
Pyrene
Concen: 0.385 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:202 Resp: 5903
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 18.1 14.5 21.7

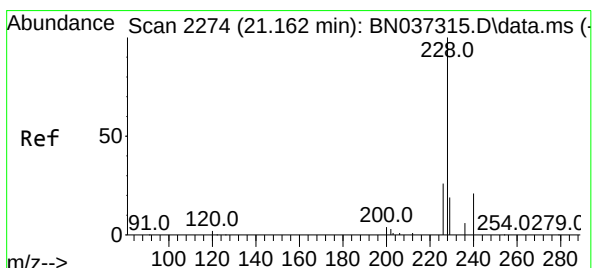
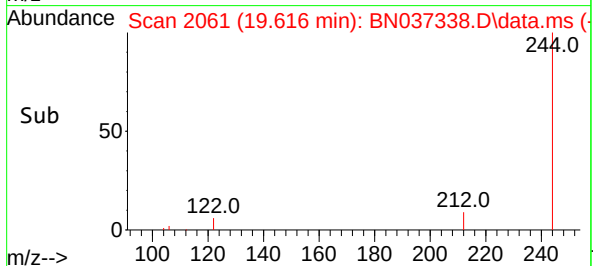
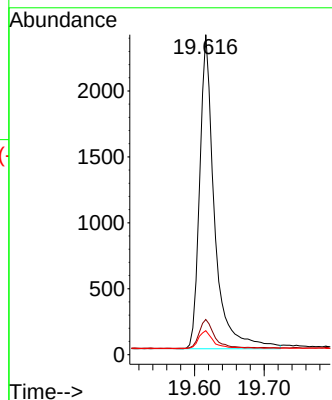
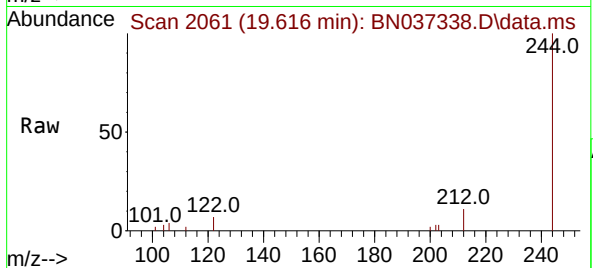




#31
Terphenyl-d14
Concen: 0.383 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

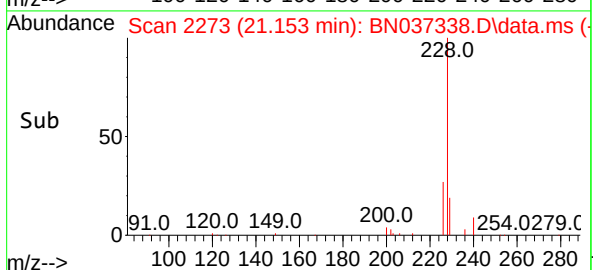
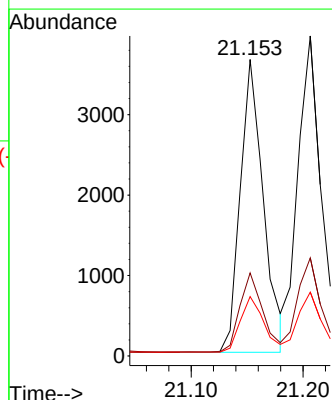
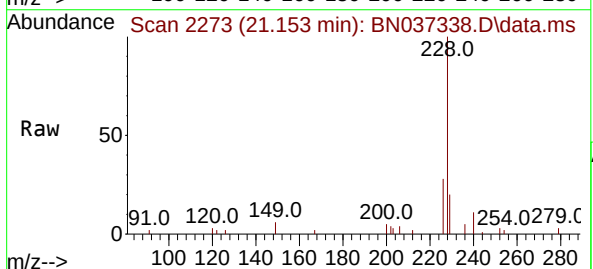
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

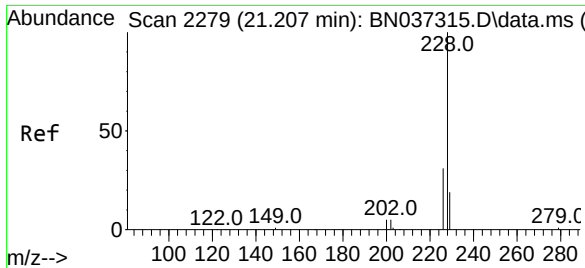
Tgt Ion:244 Resp: 3537
Ion Ratio Lower Upper
244 100
212 11.0 11.1 16.7#
122 7.5 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.403 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:228 Resp: 5224
Ion Ratio Lower Upper
228 100
226 28.0 23.0 34.4
229 20.0 17.4 26.0

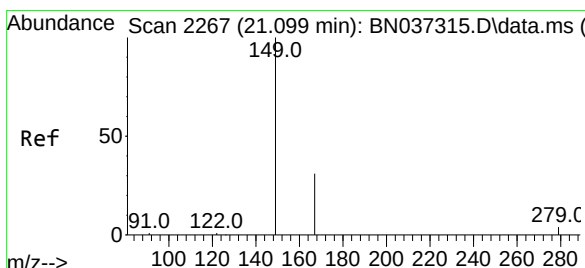
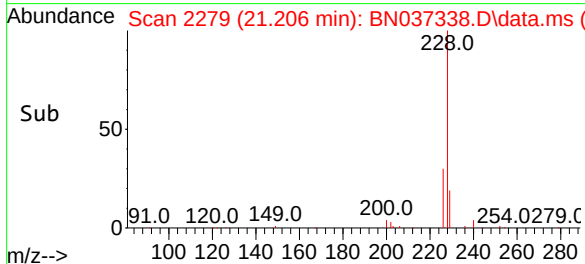
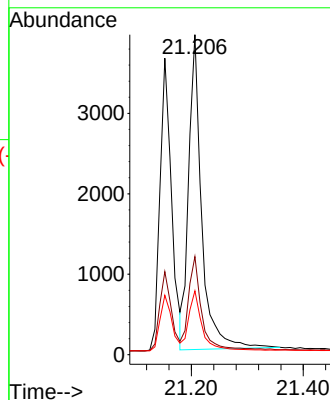
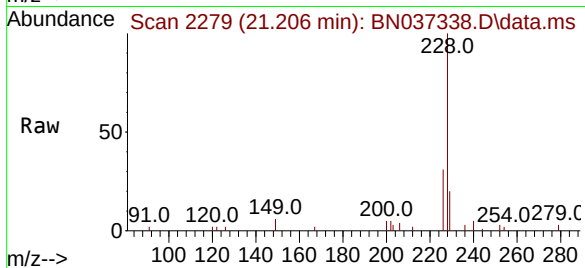




#33
Chrysene
Concen: 0.381 ng
RT: 21.206 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

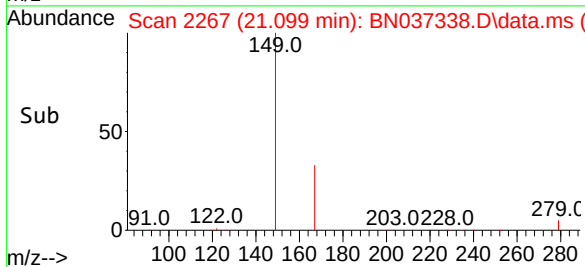
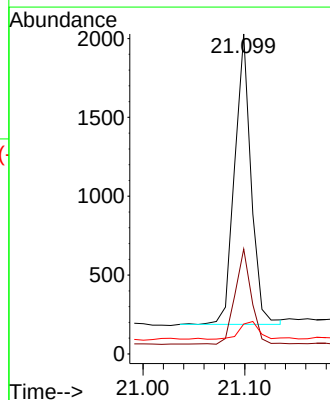
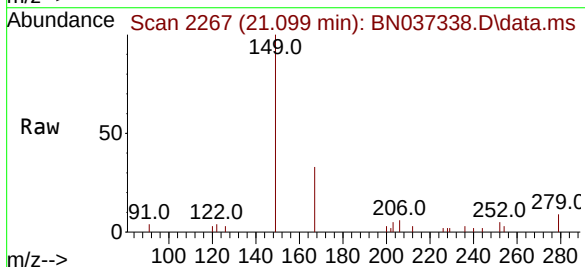
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

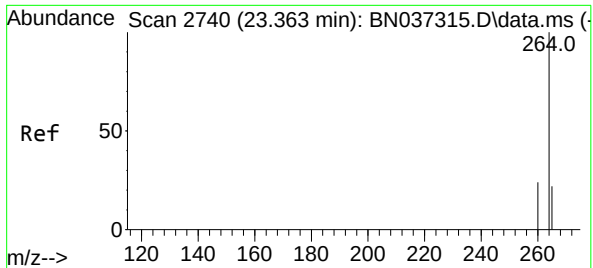
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.4	38.2
229	19.9	17.3	25.9



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.388 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion	Ratio	Lower	Upper
149	100		
167	32.2	24.6	37.0
279	7.6	6.5	9.7

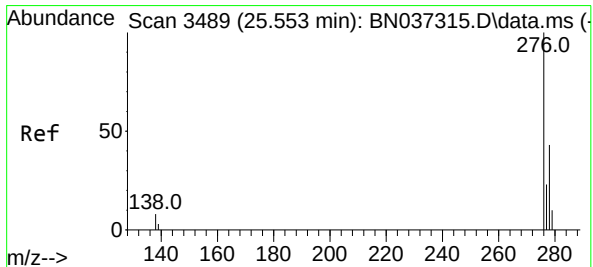
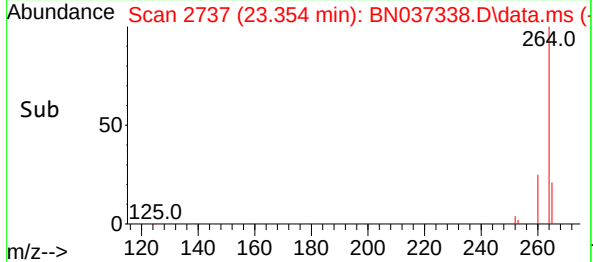
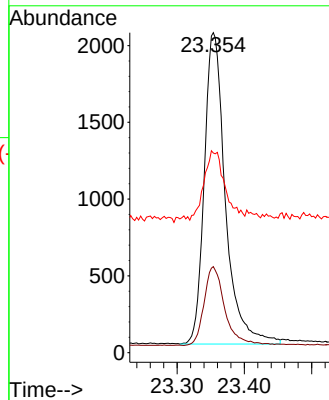
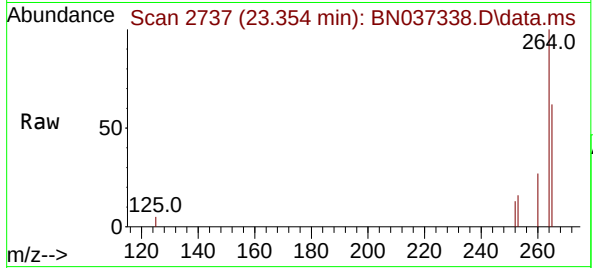




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

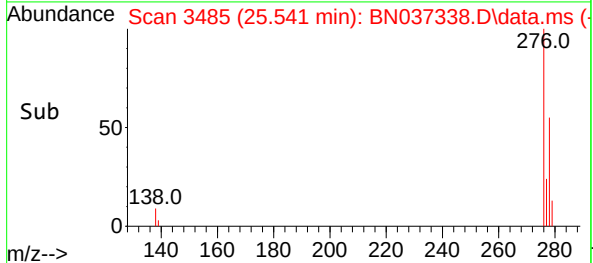
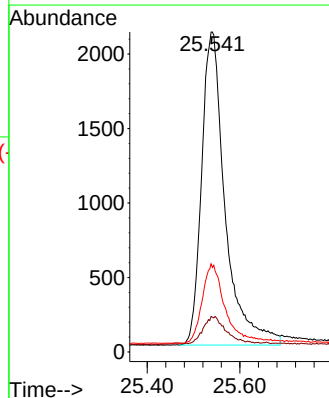
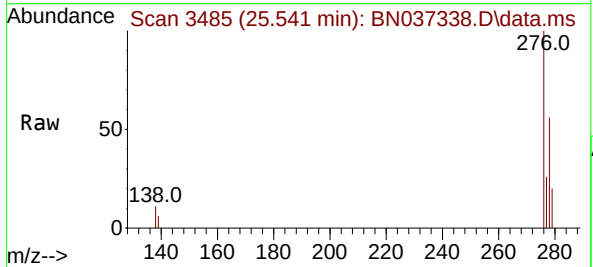
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

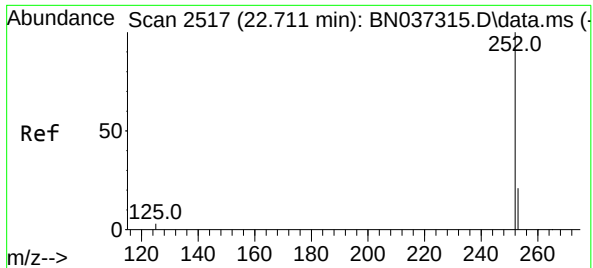
Tgt Ion:264 Resp: 4432
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 62.4 71.4 107.0#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.398 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.012 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:276 Resp: 7414
Ion Ratio Lower Upper
276 100
138 8.1 2.2 3.2#
277 24.6 17.1 25.7

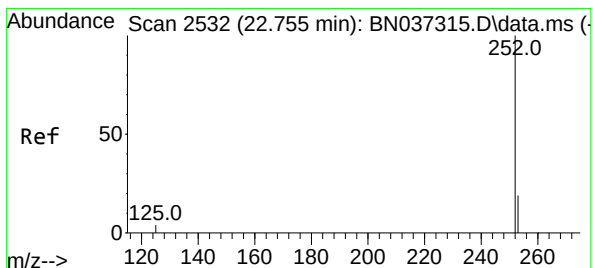
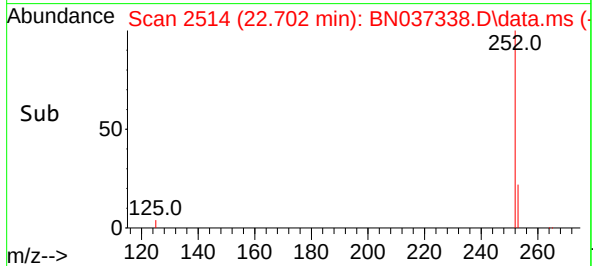
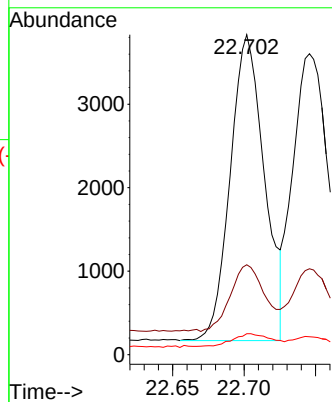
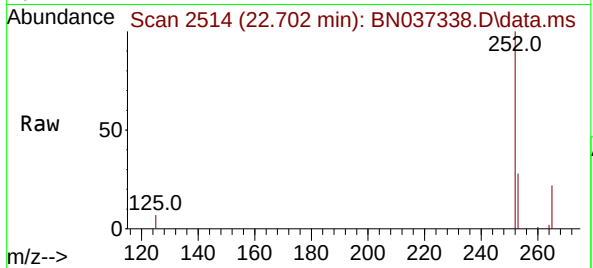




#37
Benzo(b)fluoranthene
Concen: 0.393 ng
RT: 22.702 min Scan# 2514
Delta R.T. -0.009 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

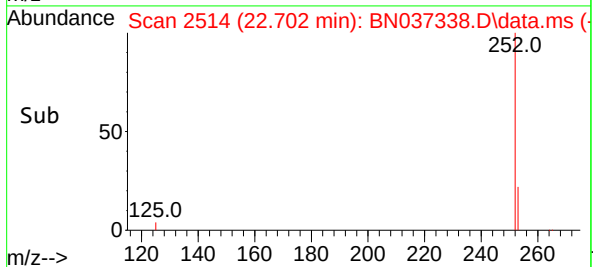
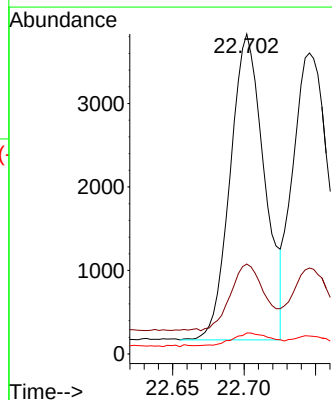
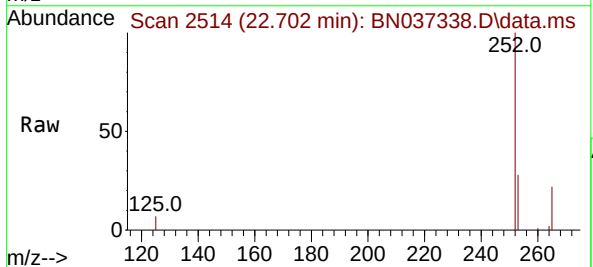
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

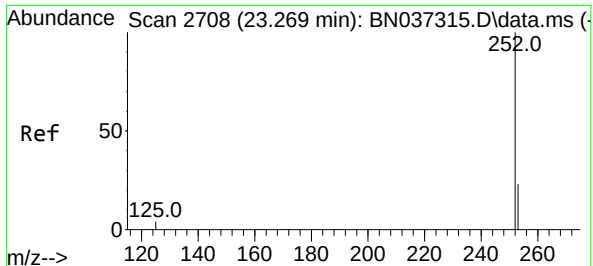
Tgt Ion:252 Resp: 6091
Ion Ratio Lower Upper
252 100
253 28.1 26.6 40.0
125 6.5 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.358 ng
RT: 22.702 min Scan# 2514
Delta R.T. -0.053 min
Lab File: BN037338.D
Acq: 19 Jun 2025 07:06

Tgt Ion:252 Resp: 6091
Ion Ratio Lower Upper
252 100
253 28.1 26.7 40.1
125 6.5 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.385 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037338.D

Acq: 19 Jun 2025 07:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

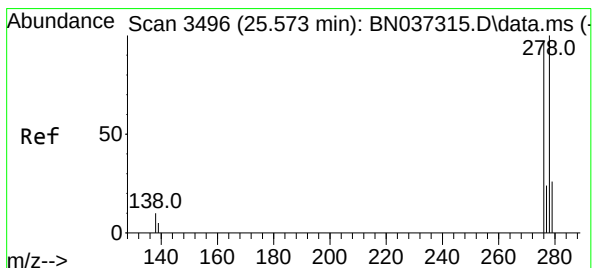
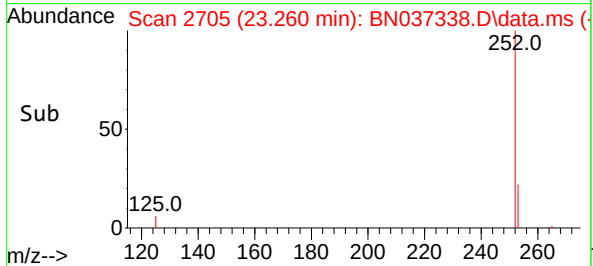
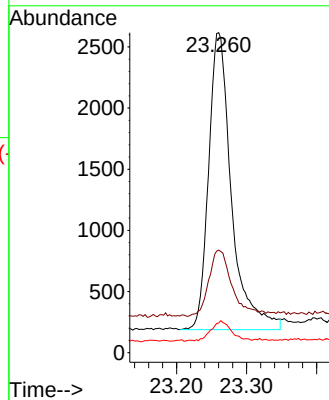
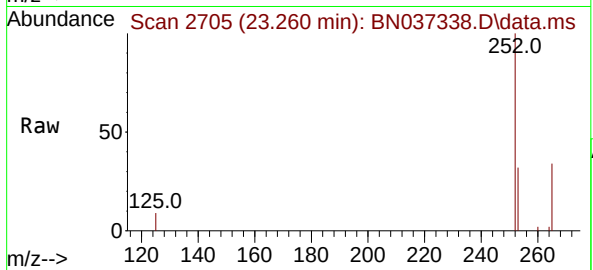
Tgt Ion:252 Resp: 5521

Ion Ratio Lower Upper

252 100

253 32.1 31.6 47.4

125 9.3 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.386 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.021 min

Lab File: BN037338.D

Acq: 19 Jun 2025 07:06

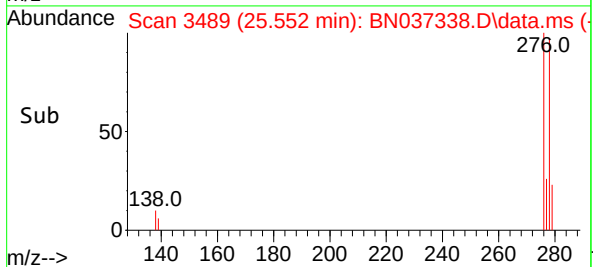
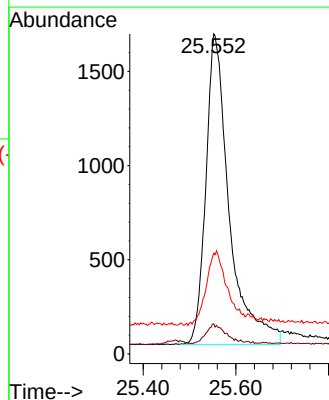
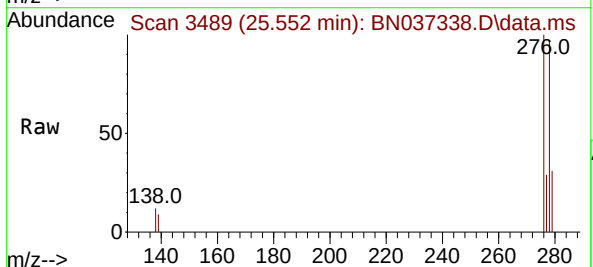
Tgt Ion:278 Resp: 5778

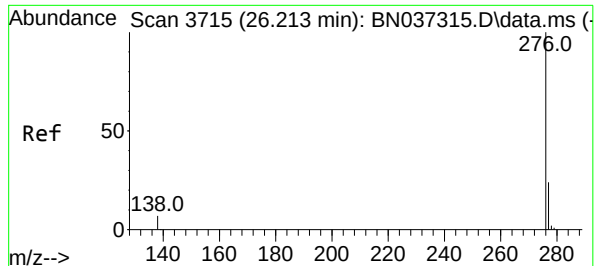
Ion Ratio Lower Upper

278 100

139 9.4 10.2 15.4#

279 31.5 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.387 ng

RT: 26.201 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037338.D

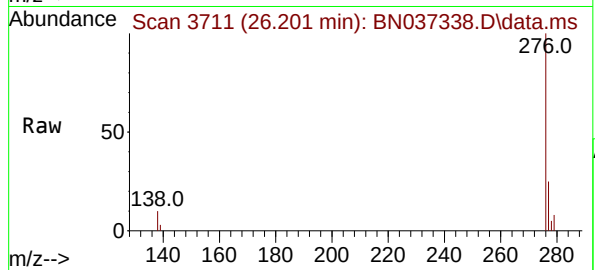
Acq: 19 Jun 2025 07:06

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



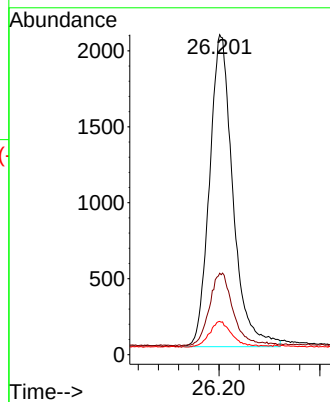
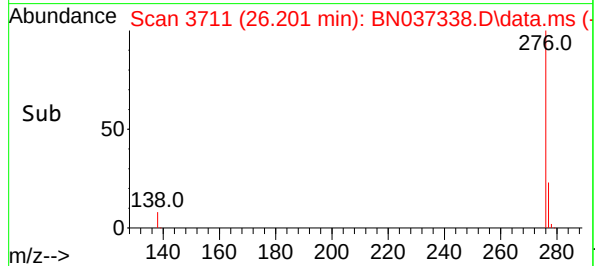
Tgt Ion:276 Resp: 6613

Ion Ratio Lower Upper

276 100

277 25.5 22.7 34.1

138 10.4 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037338.D
Acq On : 19 Jun 2025 07:06
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 19 08:40:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	173#	0.00
2	1,4-Dioxane	0.357	0.318	10.9	137	0.00
3	n-Nitrosodimethylamine	0.414	0.450	-8.7	193#	0.00
4 S	2-Fluorophenol	0.727	0.740	-1.8	178#	0.00
5 S	Phenol-d6	0.715	0.739	-3.4	182#	-0.01
6	bis(2-Chloroethyl)ether	0.612	0.683	-11.6	212#	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	166#	-0.01
8 S	Nitrobenzene-d5	0.333	0.352	-5.7	178#	-0.01
9	Naphthalene	1.035	1.046	-1.1	168#	0.00
10	Hexachlorobutadiene	0.524	0.530	-1.1	157#	-0.01
11 SURR	2-Methylnaphthalene-d10	0.650	0.706	-8.6	170#	0.00
12	2-Methylnaphthalene	0.729	0.748	-2.6	175#	-0.01
13 I	Acenaphthene-d10	1.000	1.000	0.0	175#	-0.01
14 S	2,4,6-Tribromophenol	0.295	0.257	12.9	155#	0.00
15 S	2-Fluorobiphenyl	1.753	1.672	4.6	166#	0.00
16	Acenaphthylene	1.683	1.485	11.8	160#	0.00
17	Acenaphthene	1.117	0.981	12.2	158#	-0.01
18	Fluorene	1.584	1.410	11.0	160#	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	164#	0.00
20	4,6-Dinitro-2-methylphenol	0.123	0.112	8.9	195#	-0.01
21	4-Bromophenyl-phenylether	0.332	0.314	5.4	163#	-0.01
22	Hexachlorobenzene	0.348	0.337	3.2	152#	0.00
23	Atrazine	0.259	0.250	3.5	167#	0.00
24	Pentachlorophenol	0.193	0.180	6.7	173#	-0.01
25	Phenanthrene	1.126	1.094	2.8	167#	0.00
26	Anthracene	1.056	0.997	5.6	164#	-0.01
27 SURR	Fluoranthene-d10	1.268	1.307	-3.1	162#	0.00
28	Fluoranthene	1.564	1.517	3.0	166#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	187#	0.00
30	Pyrene	1.523	1.468	3.6	171#	0.00
31 S	Terphenyl-d14	0.918	0.879	4.2	172#	0.00
32	Benzo(a)anthracene	1.288	1.299	-0.9	203#	0.00
33	Chrysene	1.644	1.568	4.6	178#	0.00
34	Bis(2-ethylhexyl)phthalate	0.528	0.512	3.0	179#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	195#	0.00
36	Indeno(1,2,3-cd)pyrene	1.682	1.673	0.5	204#	-0.01
37	Benzo(b)fluoranthene	1.397	1.374	1.6	208#	0.00
38	Benzo(k)fluoranthene	1.535	1.374	10.5	176#	-0.05
39 C	Benzo(a)pyrene	1.294	1.246	3.7	196#	0.00
40	Dibenzo(a,h)anthracene	1.351	1.304	3.5	205#	-0.02
41	Benzo(g,h,i)perylene	1.542	1.492	3.2	197#	-0.01

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037338.D
 Acq On : 19 Jun 2025 07:06
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: Jun 19 08:40:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	173	0.00
2	1,4-Dioxane	0.400	0.356	11.0	137	0.00
3	n-Nitrosodimethylamine	0.400	0.435	-8.7	193	0.00
4 S	2-Fluorophenol	0.400	0.407	-1.7	178	0.00
5 S	Phenol-d6	0.400	0.413	-3.2	182	-0.01
6	bis(2-Chloroethyl)ether	0.400	0.446	-11.5	212	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	166	-0.01
8 S	Nitrobenzene-d5	0.400	0.422	-5.5	178	-0.01
9	Naphthalene	0.400	0.404	-1.0	168	0.00
10	Hexachlorobutadiene	0.400	0.405	-1.3	157	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.434	-8.5	170	0.00
12	2-Methylnaphthalene	0.400	0.411	-2.7	175	-0.01
13 I	Acenaphthene-d10	0.400	0.400	0.0	175	-0.01
14 S	2,4,6-Tribromophenol	0.400	0.348	13.0	155	0.00
15 S	2-Fluorobiphenyl	0.400	0.382	4.5	166	0.00
16	Acenaphthylene	0.400	0.353	11.8	160	0.00
17	Acenaphthene	0.400	0.351	12.3	158	-0.01
18	Fluorene	0.400	0.356	11.0	160	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	164	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.364	9.0	195	-0.01
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	163	-0.01
22	Hexachlorobenzene	0.400	0.387	3.3	152	0.00
23	Atrazine	0.400	0.386	3.5	167	0.00
24	Pentachlorophenol	0.400	0.374	6.5	173	-0.01
25	Phenanthrene	0.400	0.389	2.8	167	0.00
26	Anthracene	0.400	0.378	5.5	164	-0.01
27 SURR	Fluoranthene-d10	0.400	0.412	-3.0	162	0.00
28	Fluoranthene	0.400	0.388	3.0	166	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	187	0.00
30	Pyrene	0.400	0.385	3.8	171	0.00
31 S	Terphenyl-d14	0.400	0.383	4.3	172	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	203	0.00
33	Chrysene	0.400	0.381	4.8	178	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.388	3.0	179	0.00
35 I	Perylene-d12	0.400	0.400	0.0	195	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.398	0.5	204	-0.01
37	Benzo(b)fluoranthene	0.400	0.393	1.8	208	0.00
38	Benzo(k)fluoranthene	0.400	0.358	10.5	176	-0.05
39 C	Benzo(a)pyrene	0.400	0.385	3.8	196	0.00
40	Dibenzo(a,h)anthracene	0.400	0.386	3.5	205	-0.02
41	Benzo(g,h,i)perylene	0.400	0.387	3.3	197	-0.01

(#) = Out of Range

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



QC SAMPLE DATA

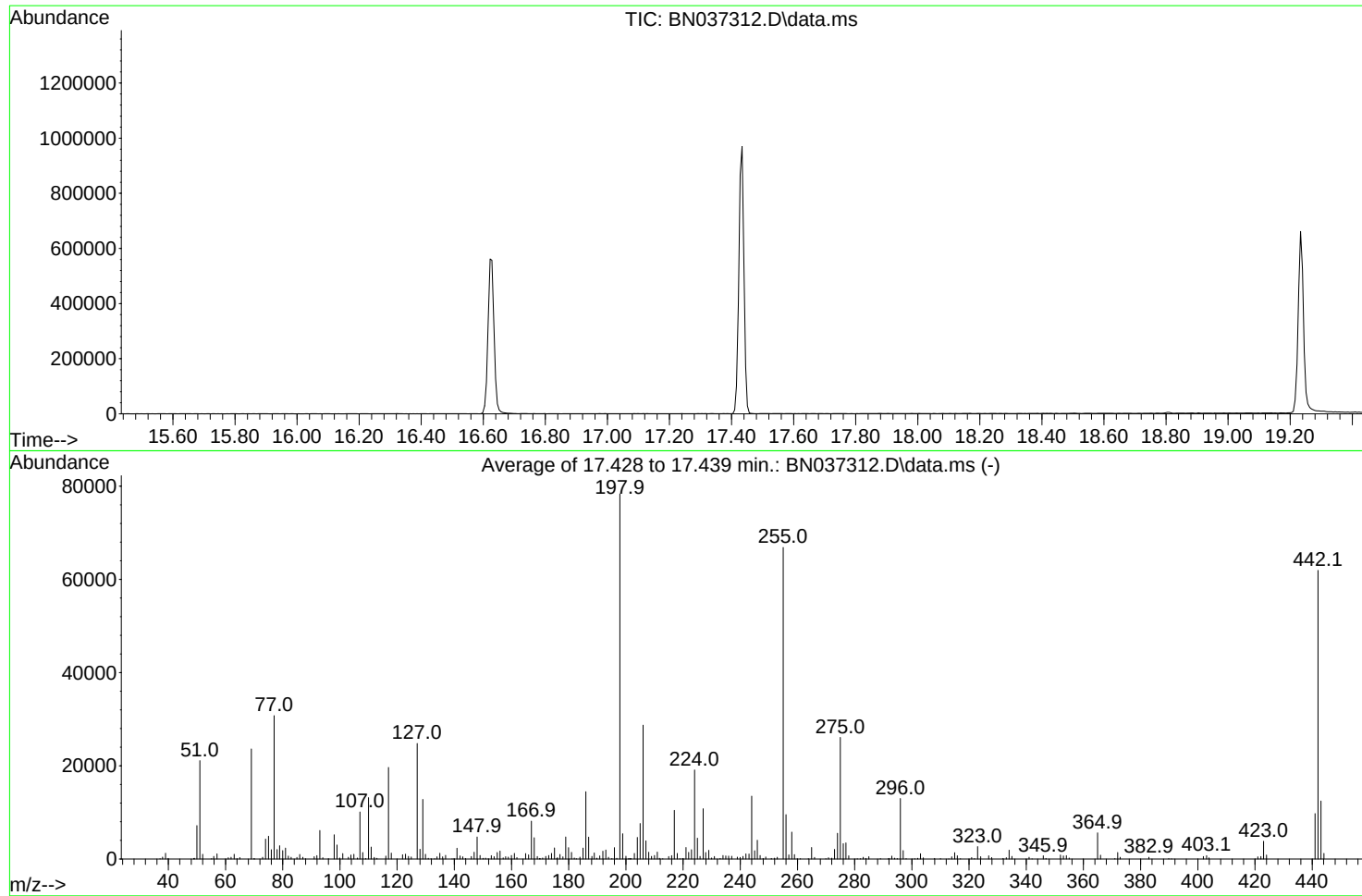
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037312.D
Acq On : 18 Jun 2025 13:27
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\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



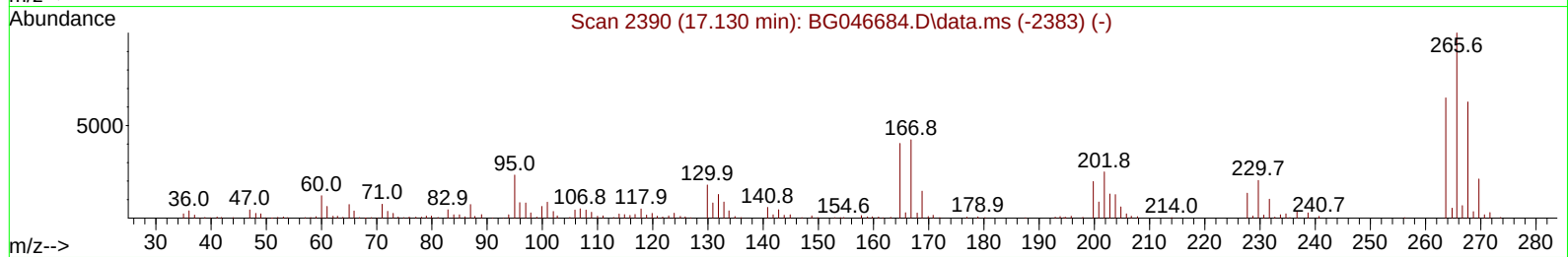
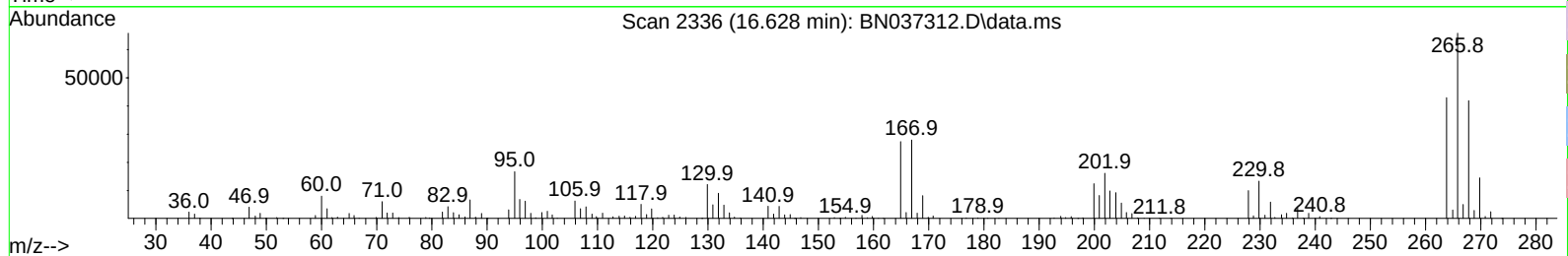
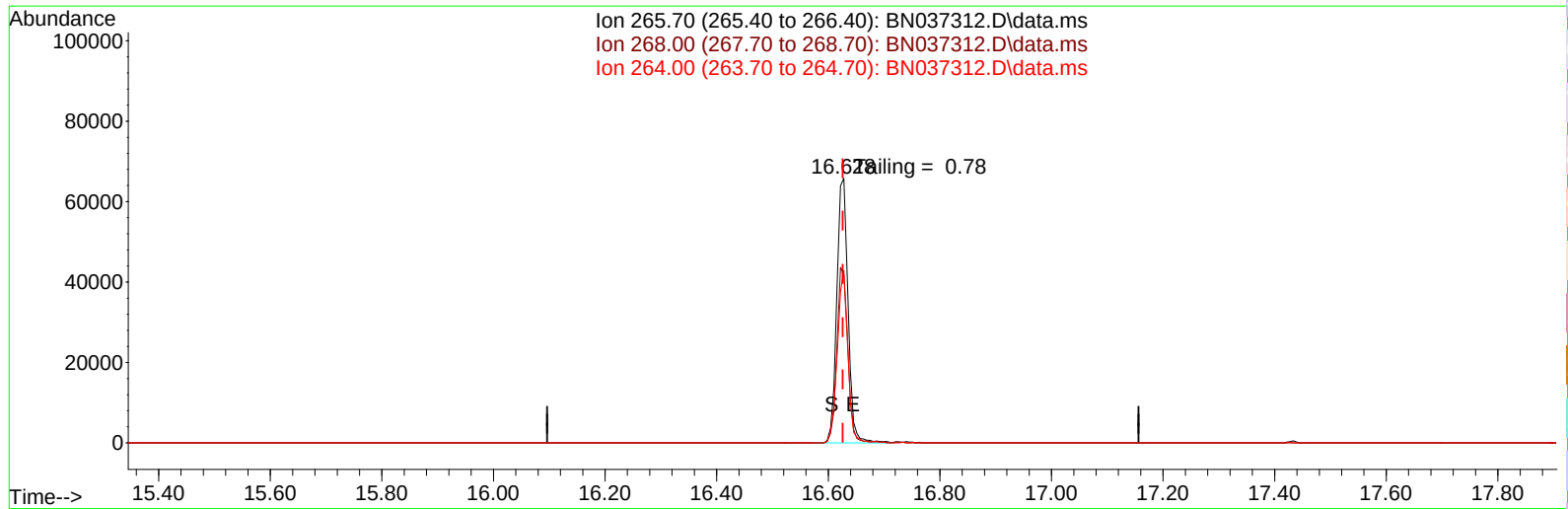
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2465

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	23638	PASS
70	69	0.00	2	0.3	60	PASS
197	198	0.00	2	0.2	162	PASS
198	198	100	100	100.0	78347	PASS
199	198	5	9	6.9	5444	PASS
365	198	1	100	7.2	5637	PASS
441	443	0.01	150	78.3	9747	PASS
442	442	100	100	100.0	61936	PASS
443	442	15	24	20.1	12447	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037312.D
Acq On : 18 Jun 2025 13:27
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 18 18:44:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration



TIC: BN037312.D\data.ms

(70) Pentachlorophenol (C)

16.628min (+ 0.002) 17135.53 ng

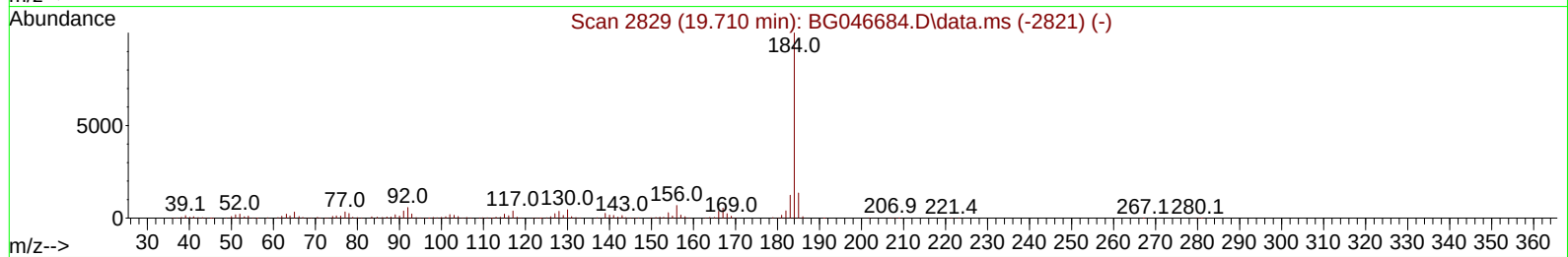
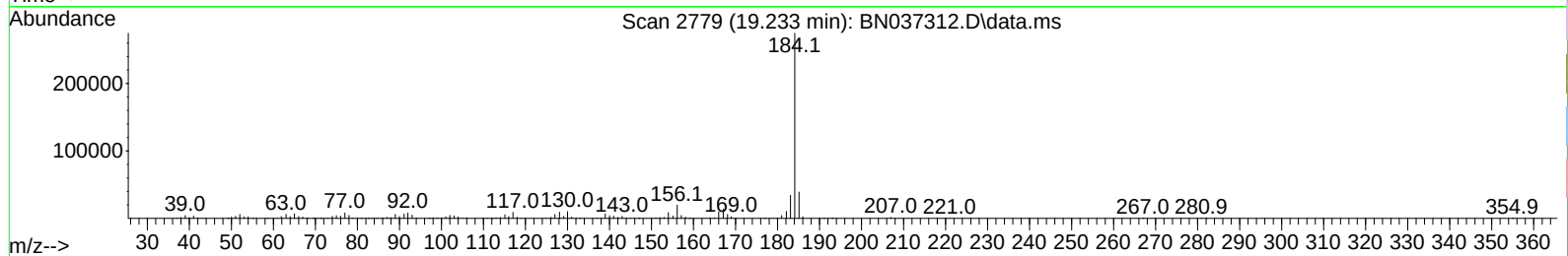
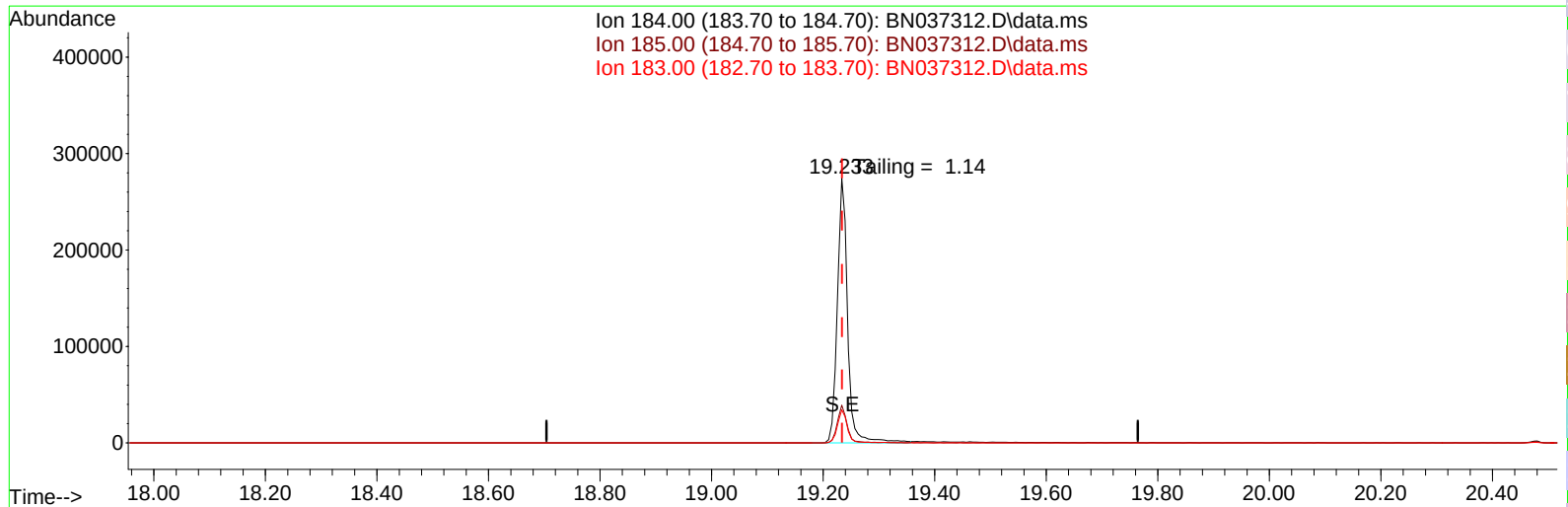
response 92519

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	63.64
264.00	61.60	65.26
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037312.D
Acq On : 18 Jun 2025 13:27
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 18 18:48:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 16 03:00:26 2025
Response via : Initial Calibration



TIC: BN037312.D\data.ms

(77) Benzdine

19.233min (-0.001) 0.00 ng

response 354315

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.28
183.00	13.20	12.45
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

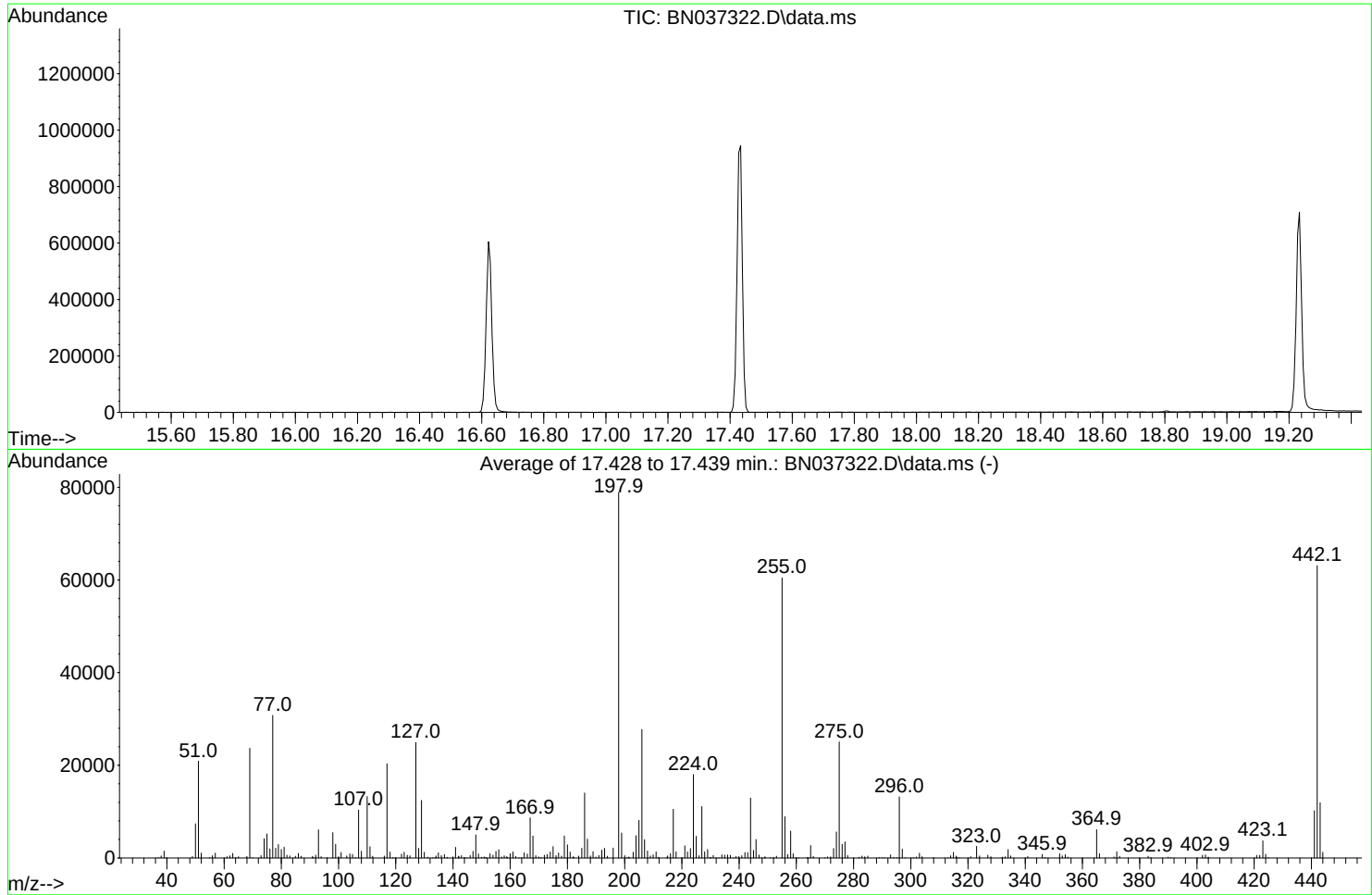
Date	Instrument Name	DFTPP Data File
6/19/2025	BNA_N	<u>BN037312.D</u>
Compound Name	Response	Retention Time
DDT	261804	20.475
DDD	4079	20.039
DDE	148	19.528
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4227	266031	1.59

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037322.D
Acq On : 18 Jun 2025 20:47
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\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 19 02:50:12 2025



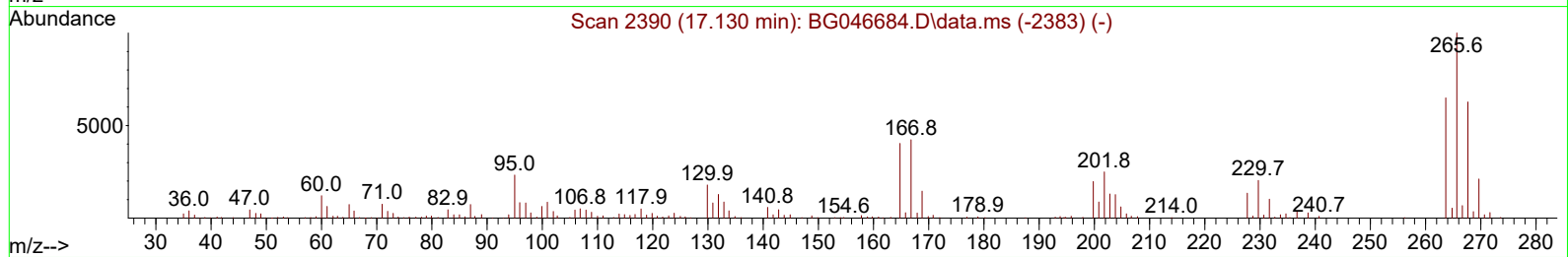
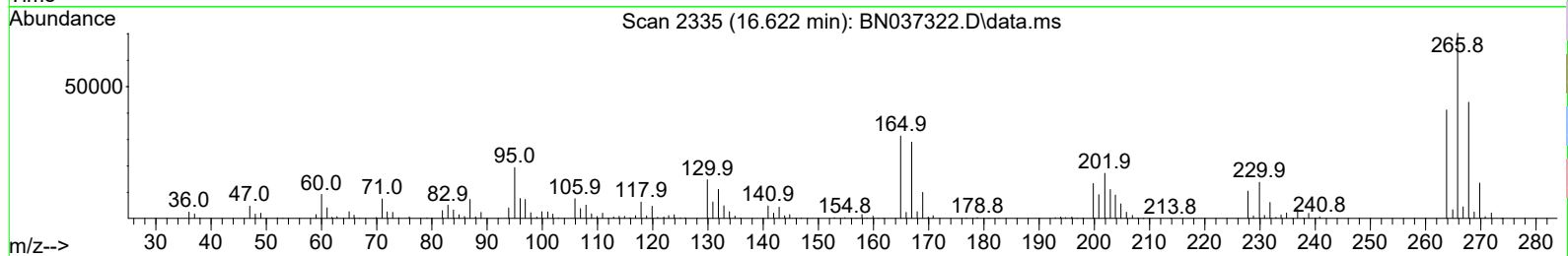
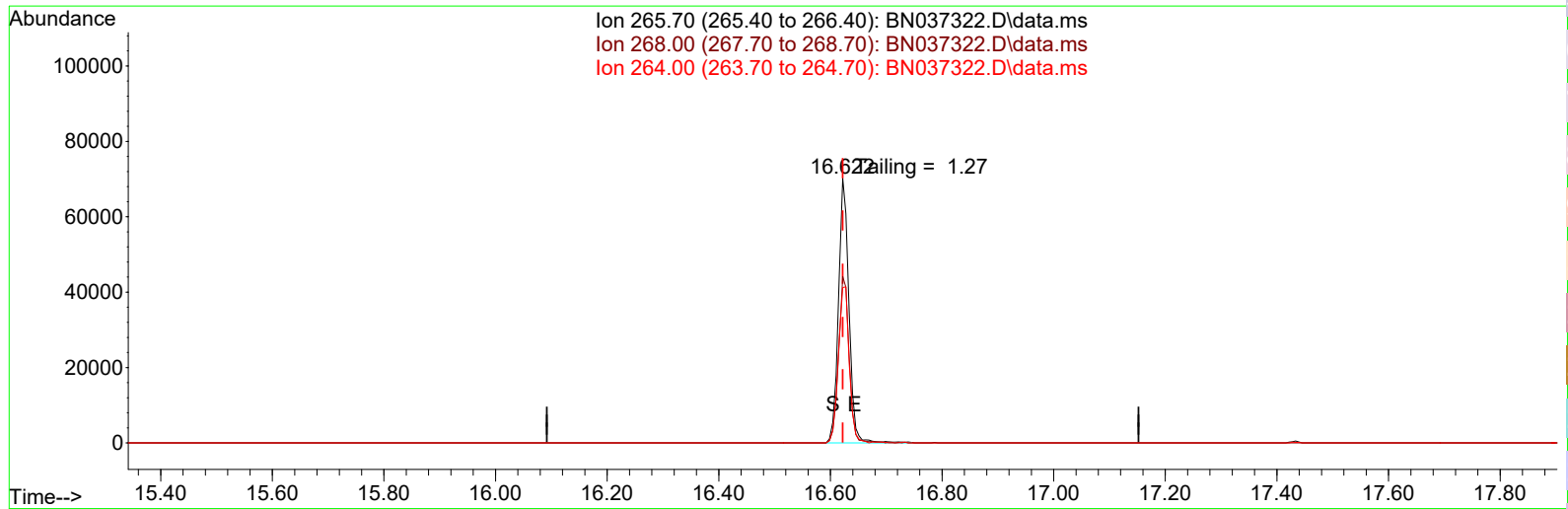
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2465

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.5	357	PASS
69	69	100	100	100.0	23684	PASS
70	69	0.00	2	0.5	111	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	78861	PASS
199	198	5	9	6.8	5398	PASS
365	198	1	100	7.8	6121	PASS
441	443	0.01	150	85.6	10205	PASS
442	442	100	100	100.0	63075	PASS
443	442	15	24	18.9	11923	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037322.D
Acq On : 18 Jun 2025 20:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 19 02:50:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 19 02:50:12 2025
Response via : Initial Calibration



TIC: BN037322.D\data.ms

(70) Pentachlorophenol (C)

16.622min (0.000) 19762.00 ng

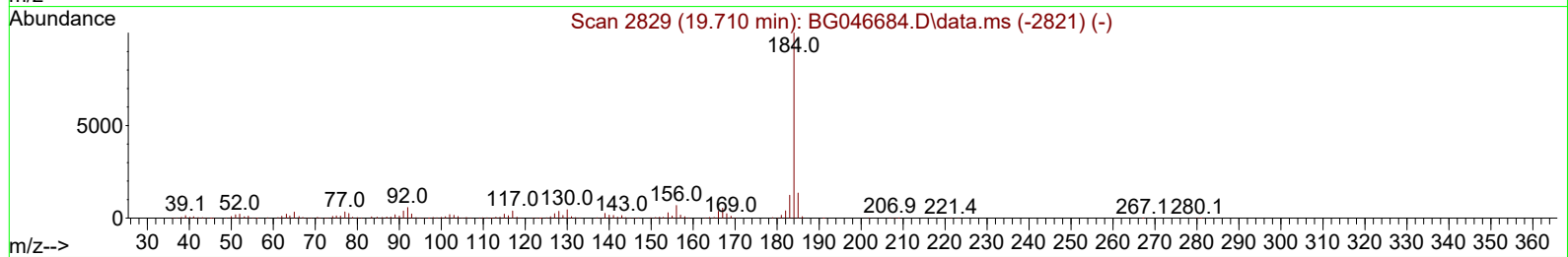
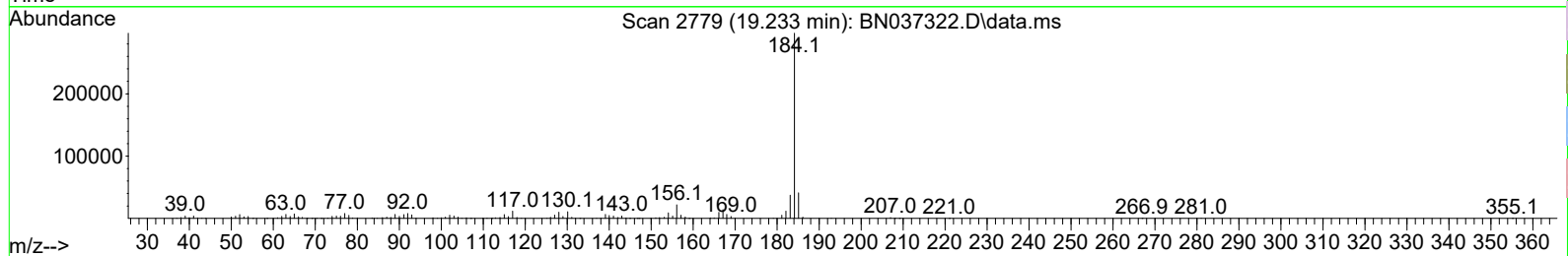
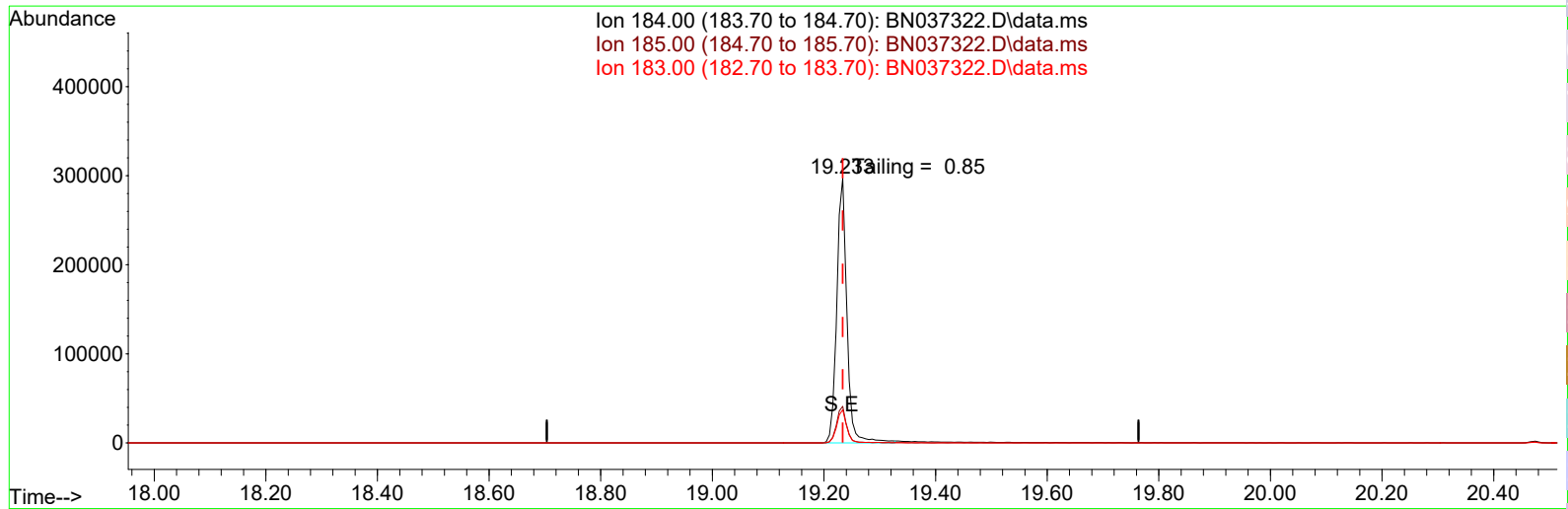
response 90726

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.84
264.00	61.60	58.64
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037322.D
Acq On : 18 Jun 2025 20:47
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 19 02:50:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 19 02:50:12 2025
Response via : Initial Calibration



TIC: BN037322.D\data.ms

(77) Benzdine

19.233min (0.000) 0.00 ng

response 373179

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.88
183.00	13.20	12.54
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/19/2025	BNA_N	<u>BN037322.D</u>
Compound Name	Response	Retention Time
DDT	255431	20.475
DDD	3579	20.033
DDE	5489	17.434
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
9068	264499	3.43

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168508BL	SDG No.:	Q2329
Lab Sample ID:	PB168508BL	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
BN037324.D	1	06/17/25 08:55	06/18/25 22:02	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		87%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		58 - 132		106%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	562	7.575				
1146-65-2	Naphthalene-d8	1150	10.362				
15067-26-2	Acenaphthene-d10	831	14.224				
1517-22-2	Phenanthrene-d10	1490	16.984				
1719-03-5	Chrysene-d12	1690	21.18				
1520-96-3	Perylene-d12	1360	23.366				

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\BN061925\
Data File : BN037324.D
Acq On : 18 Jun 2025 22:02
Operator : RC/JU
Sample : PB168508BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168508BL

Quant Time: Jun 19 02:40:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	562	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	1150	0.400	ng	# 0.01
13) Acenaphthene-d10	14.224	164	831	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	1490	0.400	ng	# 0.01
29) Chrysene-d12	21.180	240	1687	0.400	ng	# 0.00
35) Perylene-d12	23.366	264	1359	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	451	0.442	ng	0.00
5) Phenol-d6	6.766	99	351	0.350	ng	0.00
8) Nitrobenzene-d5	8.749	82	334	0.349	ng	0.02
11) 2-Methylnaphthalene-d10	11.966	152	701	0.375	ng	0.02
14) 2,4,6-Tribromophenol	15.743	330	199	0.325	ng	0.02
15) 2-Fluorobiphenyl	12.858	172	1324	0.364	ng	0.02
27) Fluoranthene-d10	19.017	212	2136	0.452	ng	0.00
31) Terphenyl-d14	19.625	244	1639	0.423	ng	0.00

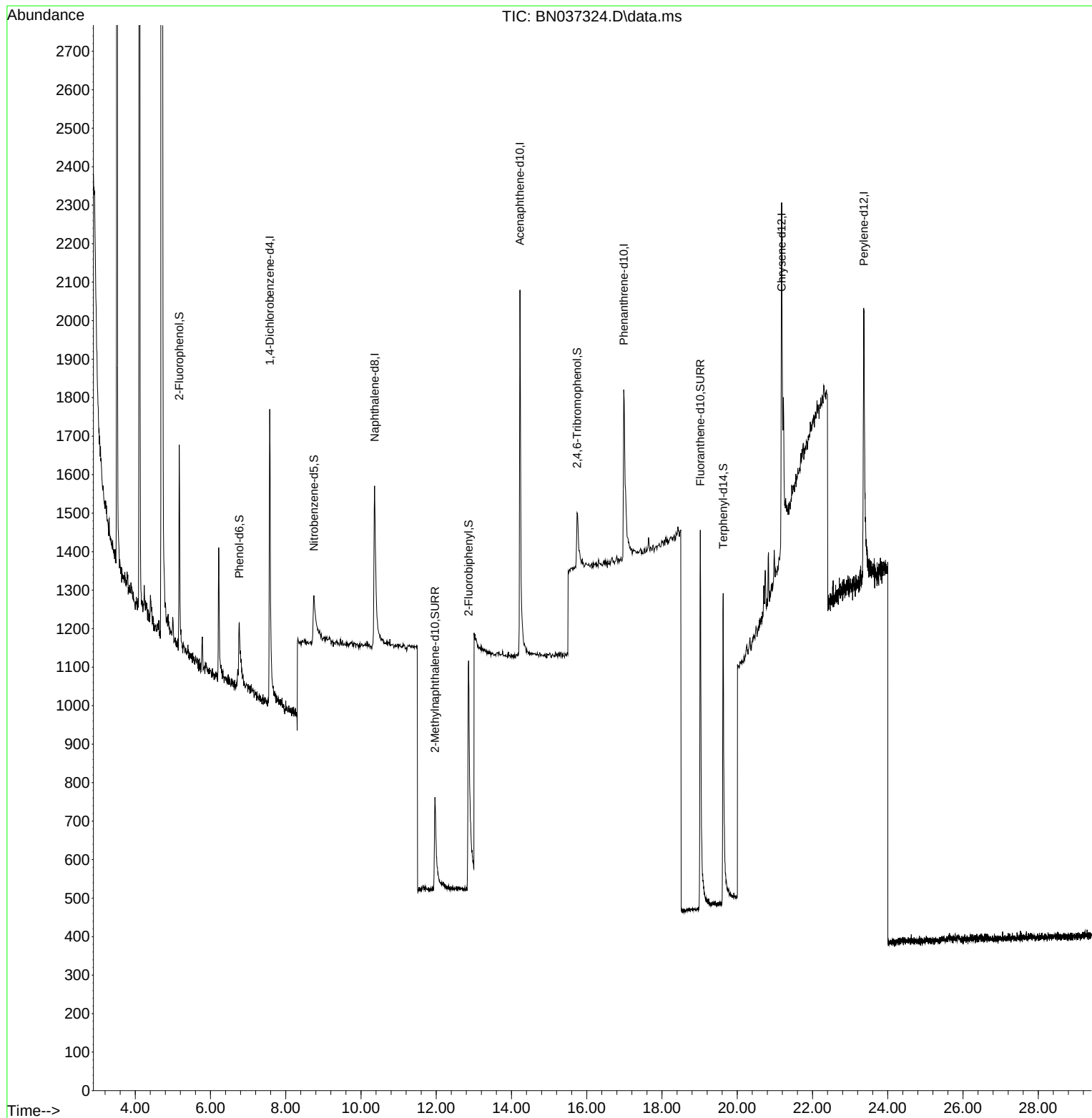
Target Compounds	Qvalue

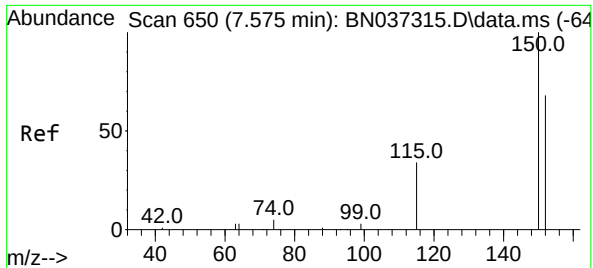
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037324.D
Acq On : 18 Jun 2025 22:02
Operator : RC/JU
Sample : PB168508BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168508BL

Quant Time: Jun 19 02:40:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

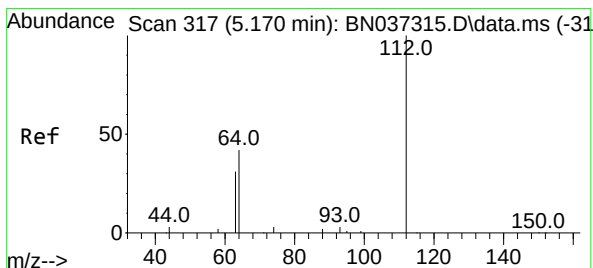
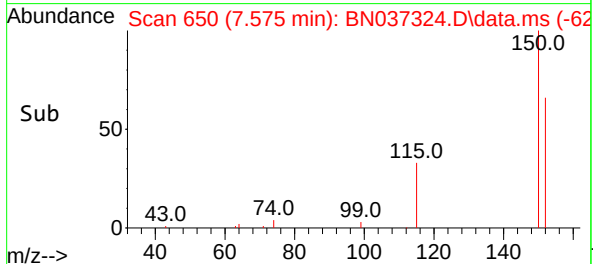
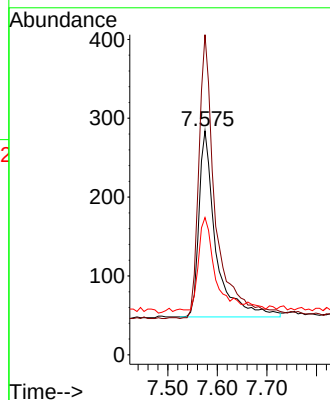
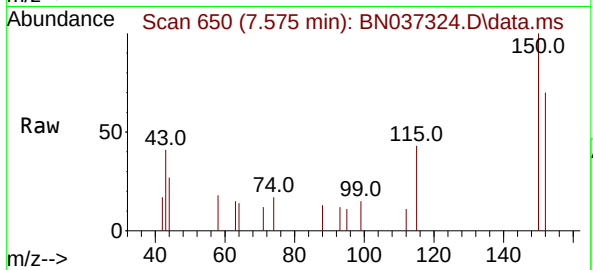




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.575 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

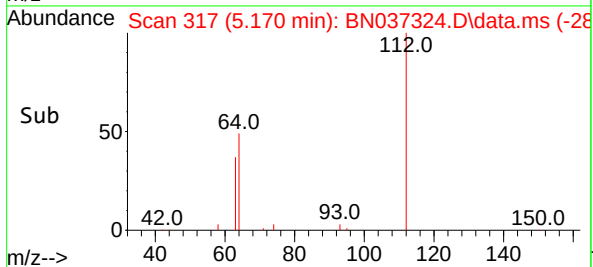
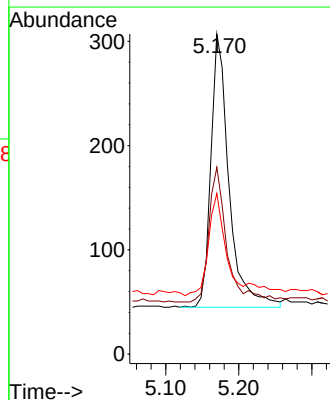
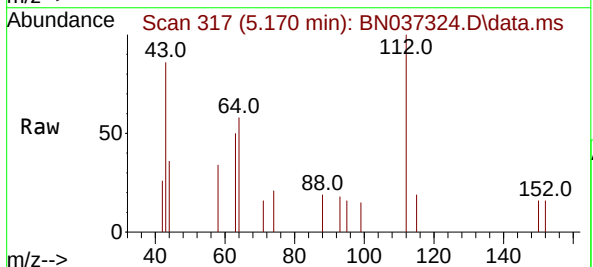
Instrument :
BNA_N
ClientSampleId :
PB168508BL

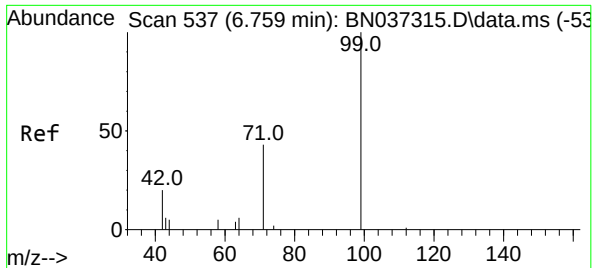
Tgt Ion:152 Resp: 562
Ion Ratio Lower Upper
152 100
150 143.0 112.7 169.1
115 61.3 45.9 68.9



#4
2-Fluorophenol
Concen: 0.442 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

Tgt Ion:112 Resp: 451
Ion Ratio Lower Upper
112 100
64 49.4 38.7 58.1
63 34.6 26.4 39.6

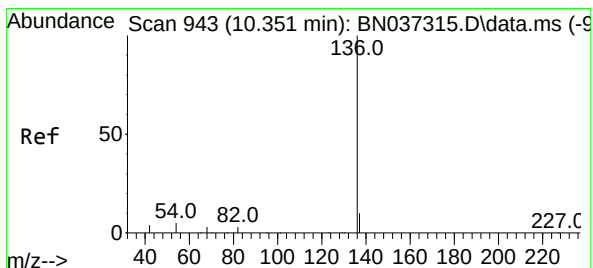
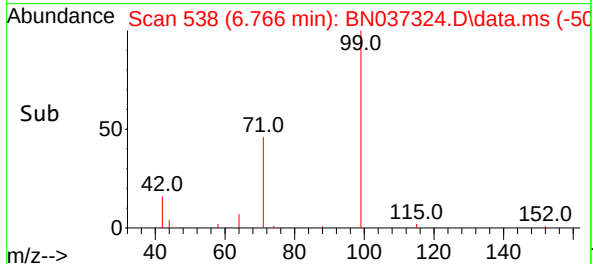
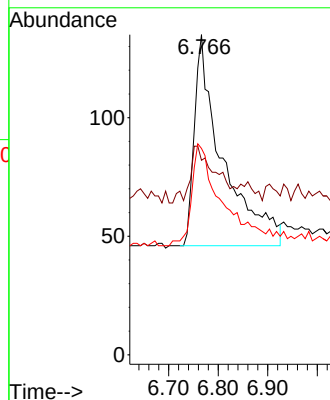
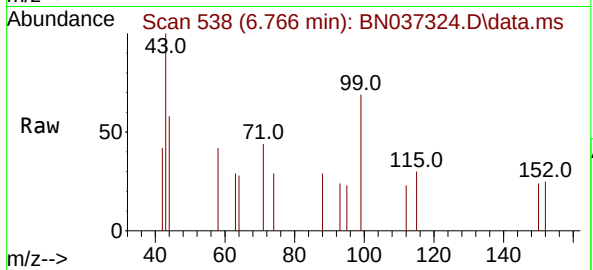




#5
Phenol-d6
Concen: 0.350 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

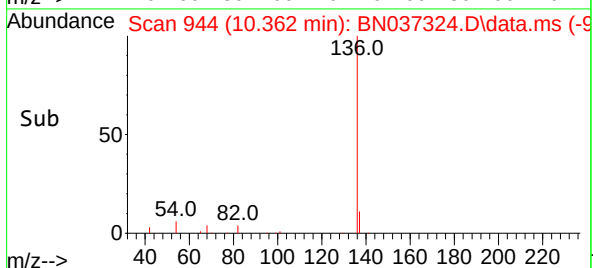
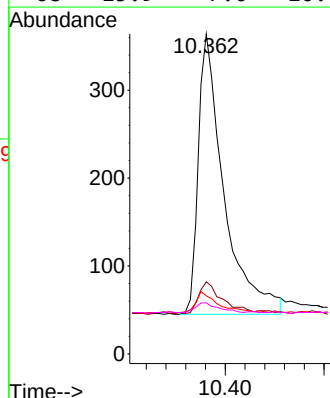
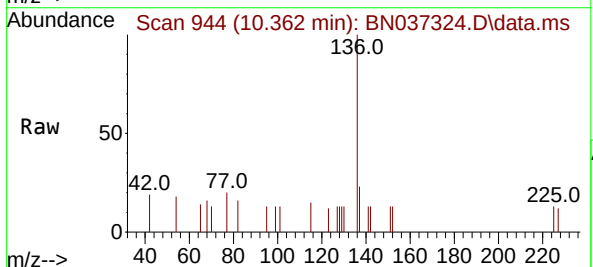
Instrument :
BNA_N
ClientSampleId :
PB168508BL

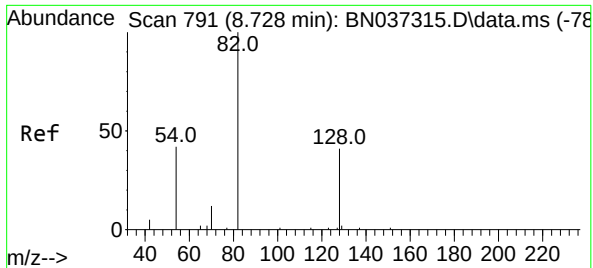
Tgt Ion:	99	Resp:	351
Ion	Ratio	Lower	Upper
99	100		
42	25.4	19.8	29.8
71	51.9	42.6	64.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. 0.011 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

Tgt Ion:	136	Resp:	1150
Ion	Ratio	Lower	Upper
136	100		
137	22.5	12.2	18.2#
54	18.1	8.8	13.2#
68	15.9	7.0	10.4#

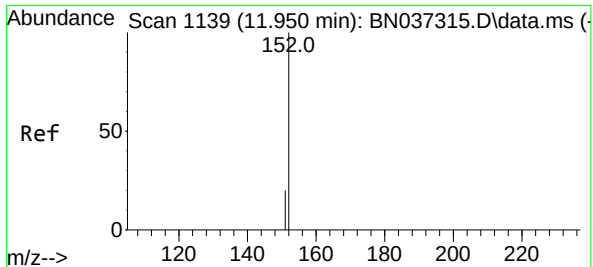
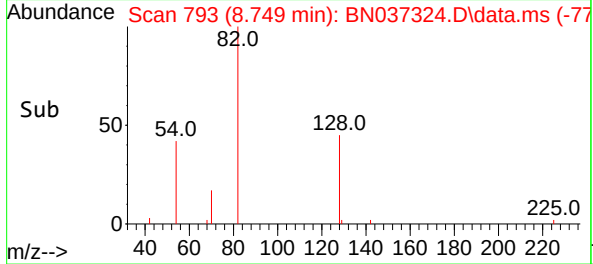
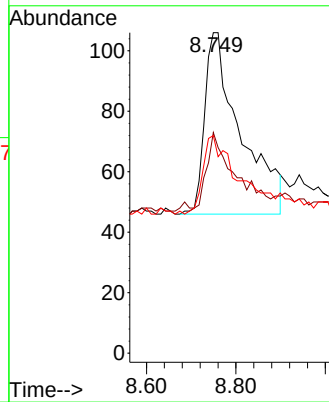
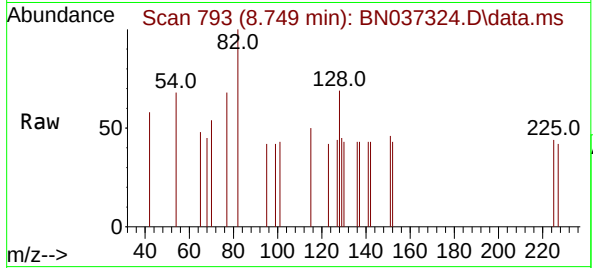




#8
Nitrobenzene-d5
Concen: 0.349 ng
RT: 8.749 min Scan# 791
Delta R.T. 0.021 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

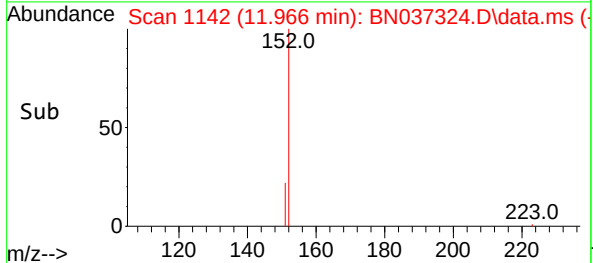
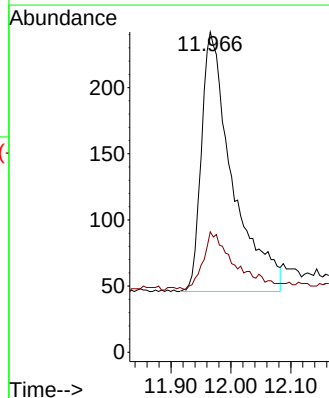
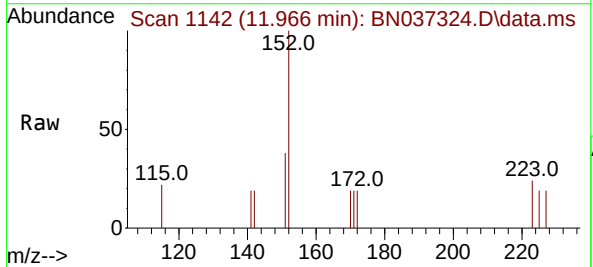
Instrument :
BNA_N
ClientSampleId :
PB168508BL

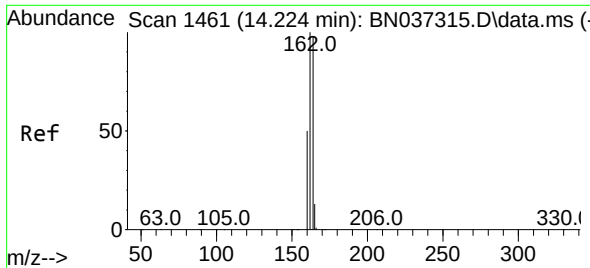
Tgt Ion: 82 Resp: 334
Ion Ratio Lower Upper
82 100
128 68.9 42.5 63.7#
54 67.9 43.2 64.8#



#11
2-Methylnaphthalene-d10
Concen: 0.375 ng
RT: 11.966 min Scan# 1142
Delta R.T. 0.015 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

Tgt Ion: 152 Resp: 701
Ion Ratio Lower Upper
152 100
151 21.0 17.4 26.0

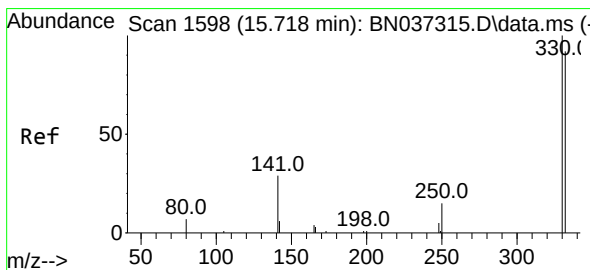
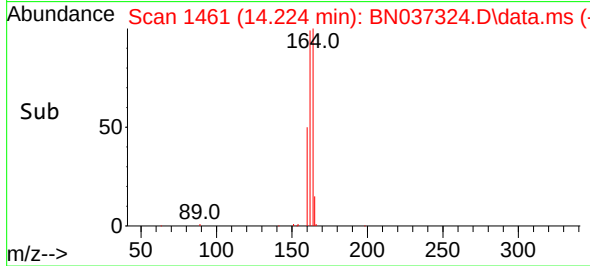
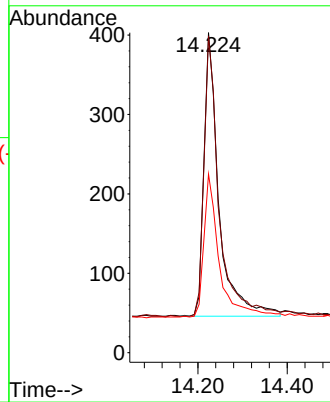
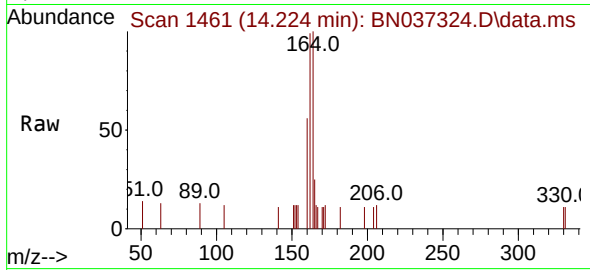




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

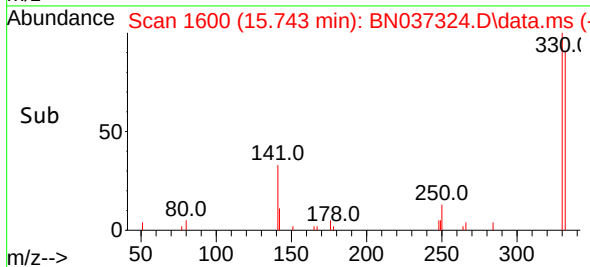
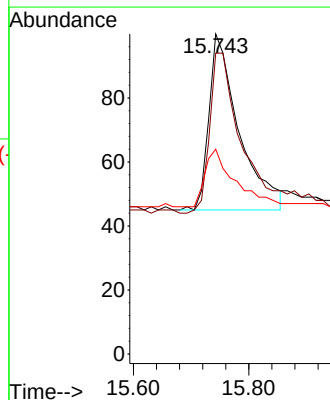
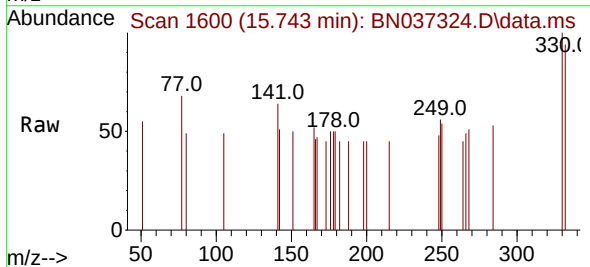
Instrument :
BNA_N
ClientSampleId :
PB168508BL

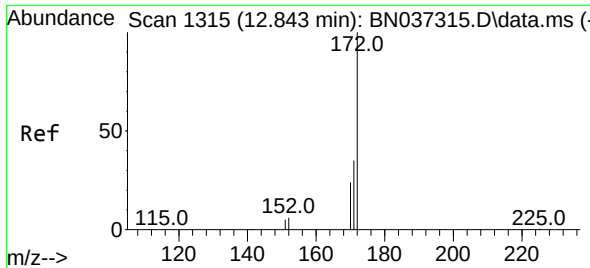
Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.0	81.5	122.3
160	55.8	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.325 ng
RT: 15.743 min Scan# 1600
Delta R.T. 0.025 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.5	78.4	117.6
141	32.7	24.4	36.6

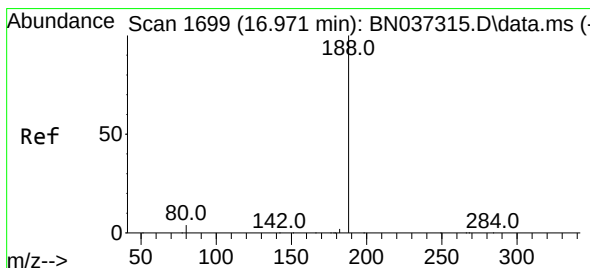
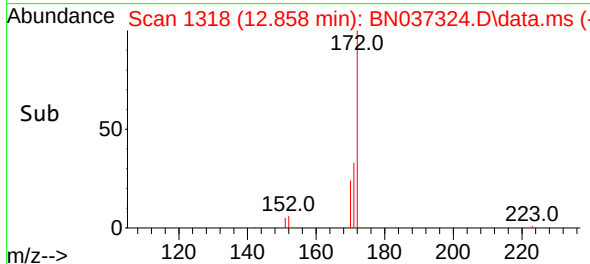
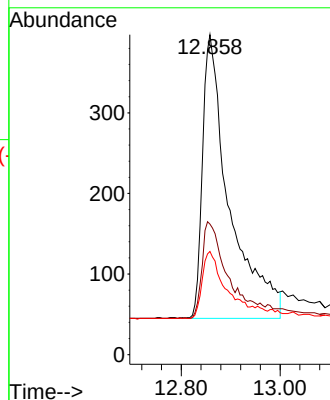
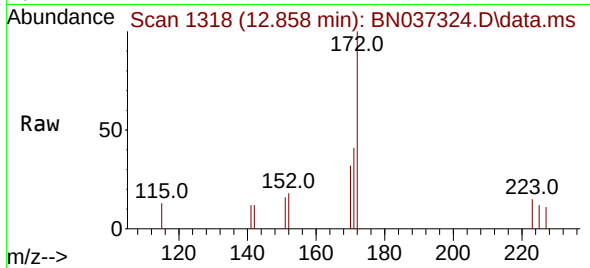




#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.858 min Scan# 11
Delta R.T. 0.015 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

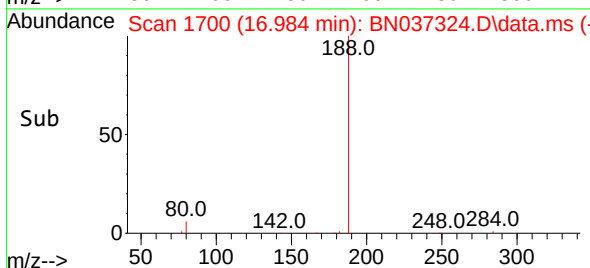
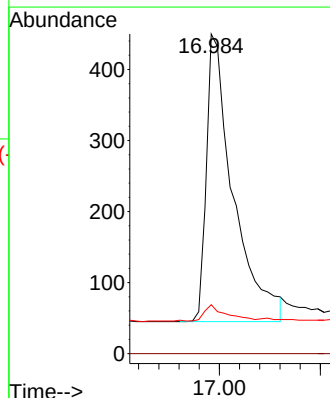
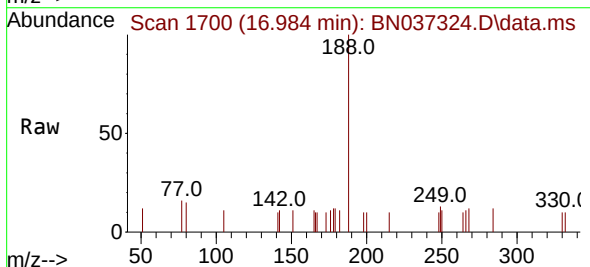
Instrument :
BNA_N
ClientSampleId :
PB168508BL

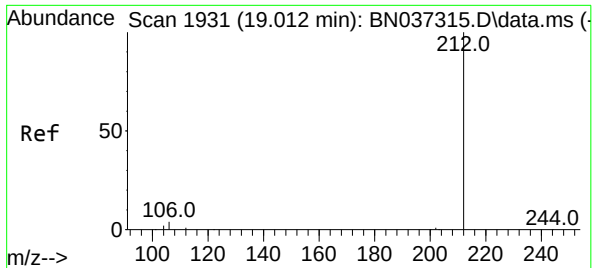
Tgt Ion:	172	Resp:	1324
Ion	Ratio	Lower	Upper
172	100		
171	40.8	30.8	46.2
170	32.2	21.9	32.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. 0.012 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

Tgt Ion:	188	Resp:	1490
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.3	6.2	9.2#

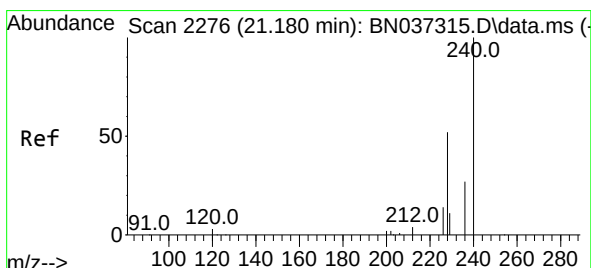
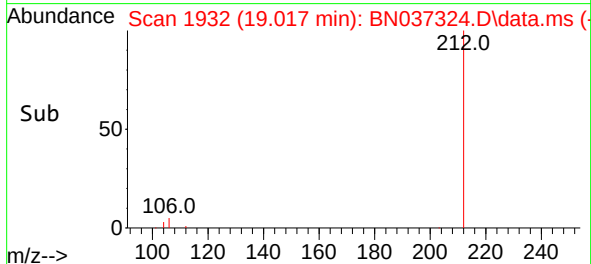
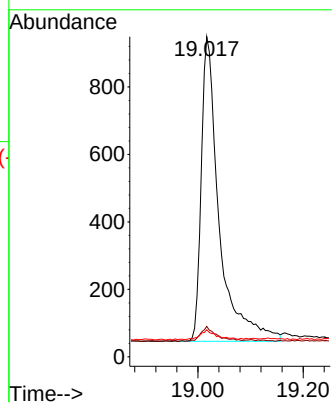
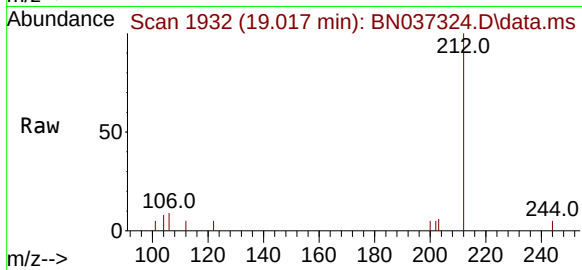




#27
Fluoranthene-d10
Concen: 0.452 ng
RT: 19.017 min Scan# 1932
Delta R.T. 0.005 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

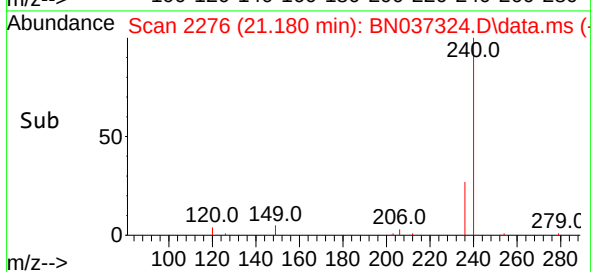
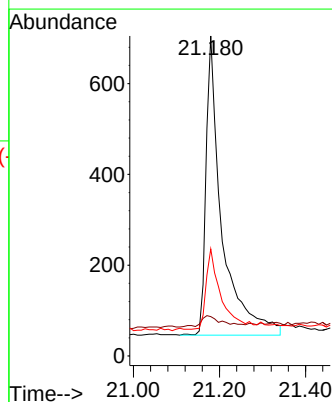
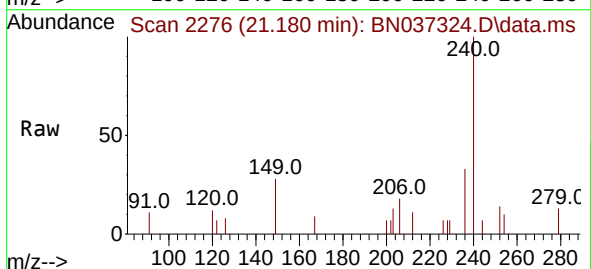
Instrument :
BNA_N
ClientSampleId :
PB168508BL

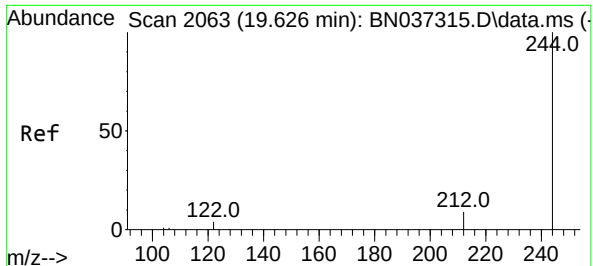
Tgt Ion	Ratio	Lower	Upper
212	100		
106	4.3	3.0	4.4
104	2.8	2.0	3.0



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 2276
Delta R.T. -0.000 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.3	7.5	11.3
236	33.5	24.9	37.3

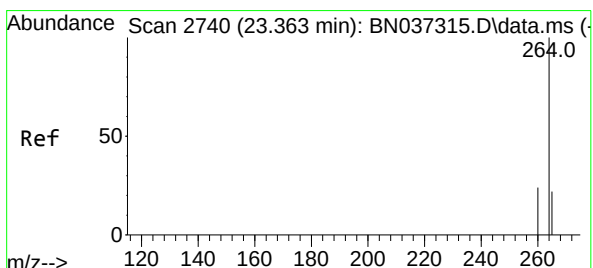
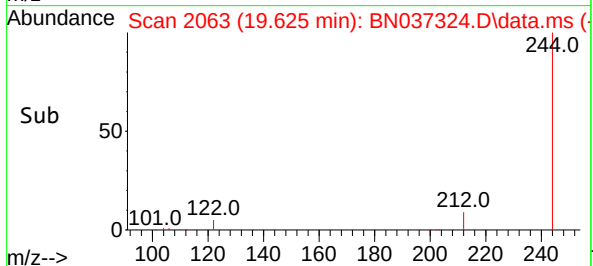
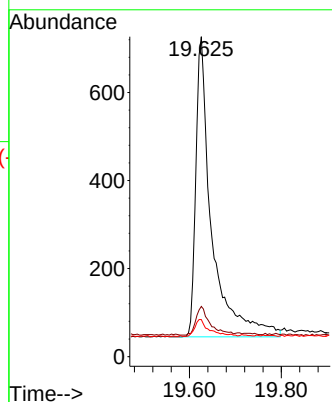
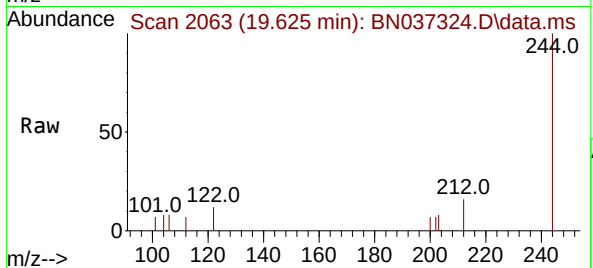




#31
Terphenyl-d14
Concen: 0.423 ng
RT: 19.625 min Scan# 2063
Delta R.T. -0.000 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

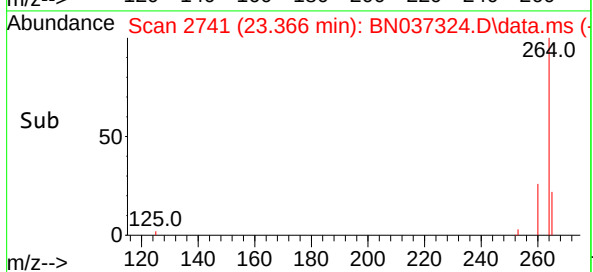
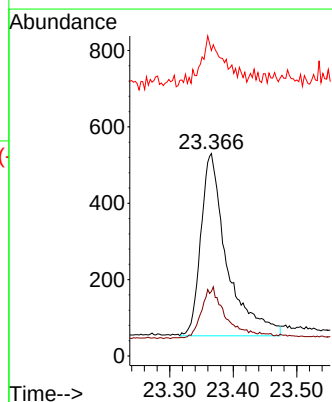
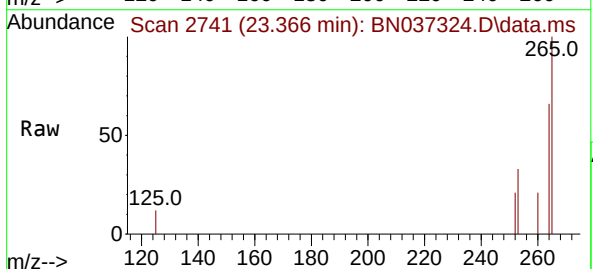
Instrument :
BNA_N
ClientSampleId :
PB168508BL

Tgt Ion:244 Resp: 1639
Ion Ratio Lower Upper
244 100
212 15.7 11.1 16.7
122 11.6 7.2 10.8#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.366 min Scan# 2741
Delta R.T. 0.003 min
Lab File: BN037324.D
Acq: 18 Jun 2025 22:02

Tgt Ion:264 Resp: 1359
Ion Ratio Lower Upper
264 100
260 31.9 21.4 32.2
265 150.9 71.4 107.0#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168508BS	SDG No.:	Q2329
Lab Sample ID:	PB168508BS	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
BN037337.D	1	06/17/25 08:55	06/19/25 05:54	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.44		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		82%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.37		53 - 106		92%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1290	7.568				
1146-65-2	Naphthalene-d8	2690	10.34				
15067-26-2	Acenaphthene-d10	1690	14.213				
1517-22-2	Phenanthrene-d10	3210	16.971				
1719-03-5	Chrysene-d12	3030	21.171				
1520-96-3	Perylene-d12	3230	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\BN061925\
 Data File : BN037337.D
 Acq On : 19 Jun 2025 05:54
 Operator : RC/JU
 Sample : PB168508BS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168508BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/19/2025
 Supervised By :mohammad ahmed 06/23/2025

Quant Time: Jun 19 06:28:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1288	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	2690	0.400	ng	#-0.01
13) Acenaphthene-d10	14.213	164	1686	0.400	ng	-0.01
19) Phenanthrene-d10	16.971	188	3212	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3029	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	3232	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	825	0.352	ng	0.00
5) Phenol-d6	6.752	99	802	0.348	ng	0.00
8) Nitrobenzene-d5	8.717	82	760	0.339	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	1622m	0.371	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	329	0.265	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	2716	0.368	ng	0.00
27) Fluoranthene-d10	19.008	212	3351	0.329	ng	0.00
31) Terphenyl-d14	19.616	244	2523	0.363	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	501	0.436	ng	# 44
3) n-Nitrosodimethylamine	3.415	42	455	0.341	ng	90
6) bis(2-Chloroethyl)ether	7.004	93	760	0.386	ng	100
9) Naphthalene	10.394	128	2428	0.349	ng	# 92
10) Hexachlorobutadiene	10.682	225	1119	0.318	ng	# 99
12) 2-Methylnaphthalene	12.021	142	1521	0.310	ng	96
16) Acenaphthylene	13.935	152	2681	0.378	ng	98
17) Acenaphthene	14.277	154	1575	0.334	ng	99
18) Fluorene	15.271	166	2259	0.338	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	302	0.306	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	914	0.343	ng	96
22) Hexachlorobenzene	16.276	284	1066	0.382	ng	93
23) Atrazine	16.450	200	743	0.357	ng	# 89
24) Pentachlorophenol	16.624	266	250	0.162	ng	94
25) Phenanthrene	17.009	178	3326	0.368	ng	99
26) Anthracene	17.108	178	3130	0.369	ng	100
28) Fluoranthene	19.040	202	4162	0.331	ng	99
30) Pyrene	19.402	202	4189	0.363	ng	99
32) Benzo(a)anthracene	21.153	228	3675	0.377	ng	99
33) Chrysene	21.206	228	4517	0.363	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1537	0.384	ng	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	5500	0.405	ng	# 93
37) Benzo(b)fluoranthene	22.702	252	4039	0.358	ng	98
38) Benzo(k)fluoranthene	22.746	252	4639	0.374	ng	96
39) Benzo(a)pyrene	23.260	252	4040	0.386	ng	96
40) Dibenzo(a,h)anthracene	25.555	278	4089	0.375	ng	# 88
41) Benzo(g,h,i)perylene	26.204	276	4647	0.373	ng	97

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

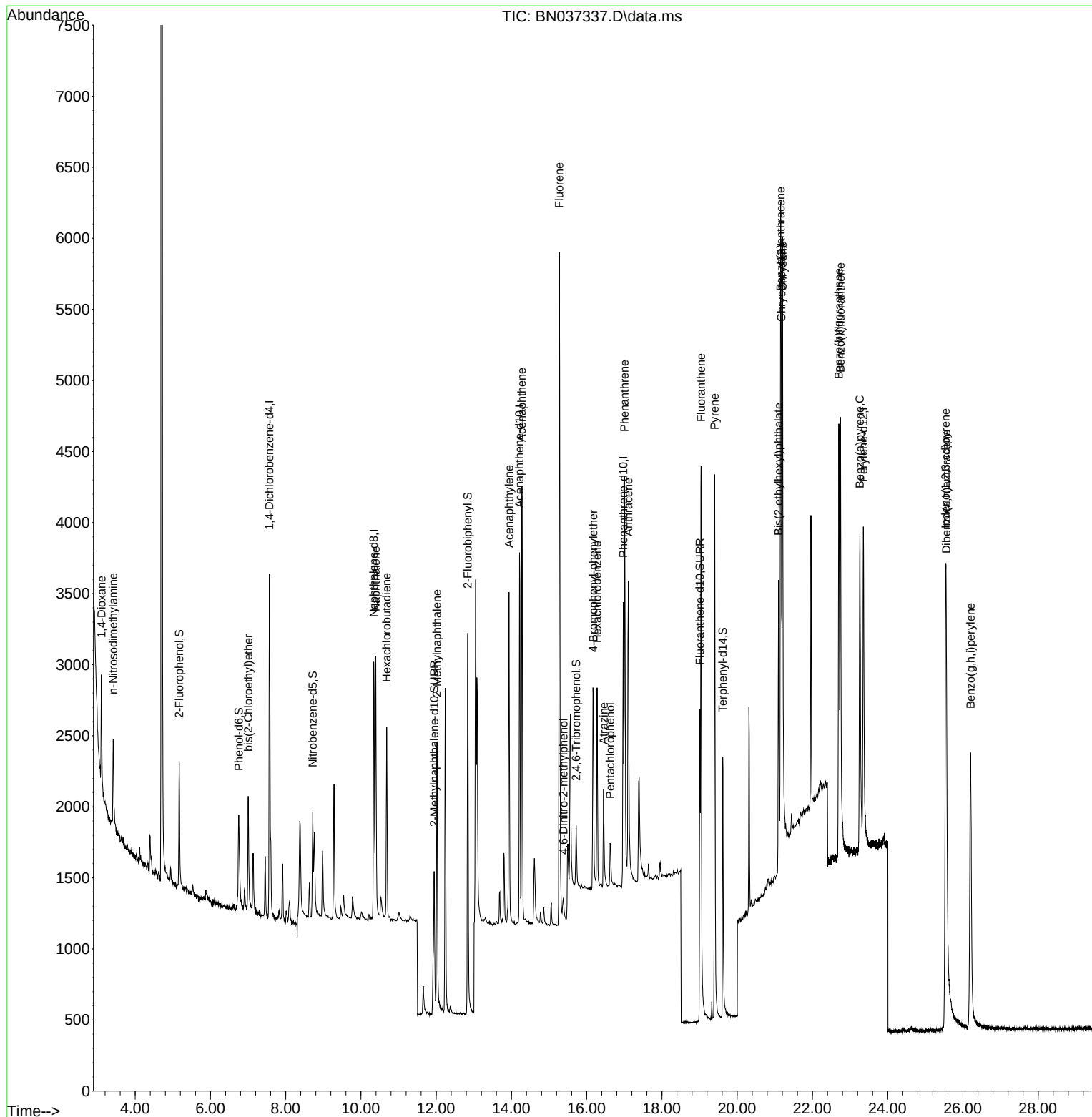
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037337.D
Acq On : 19 Jun 2025 05:54
Operator : RC/JU
Sample : PB168508BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

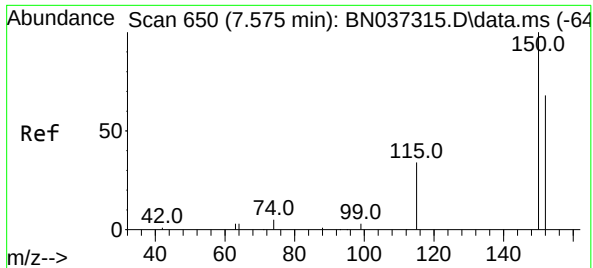
Instrument :
BNA_N
ClientSampleId :
PB168508BS

Quant Time: Jun 19 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

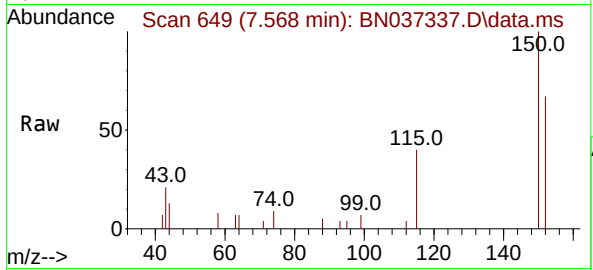
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.007 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

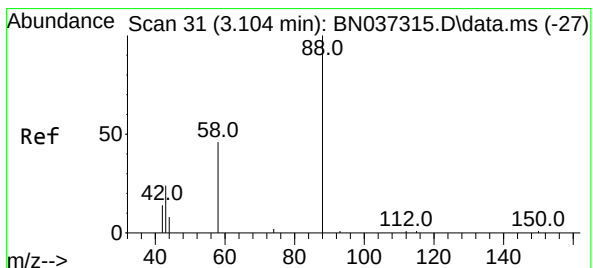
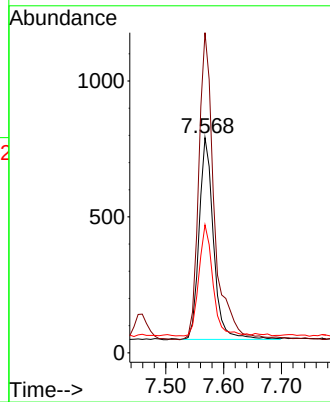
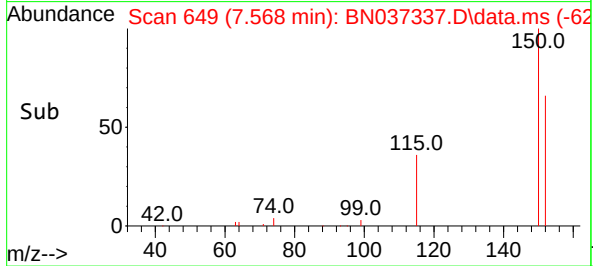
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion: 152 Resp: 128
Ion Ratio Lower Upper
152 100
150 148.7 112.7 169.1
115 59.5 45.9 68.9

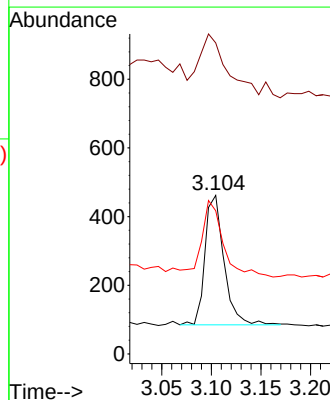
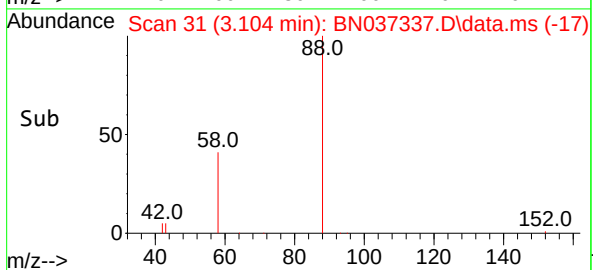
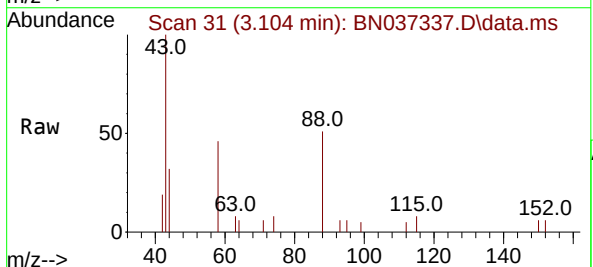
Manual Integrations
APPROVED

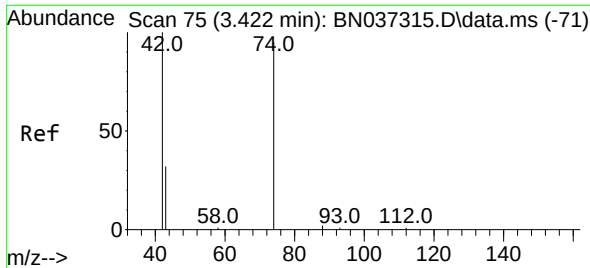
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#2
1,4-Dioxane
Concen: 0.436 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

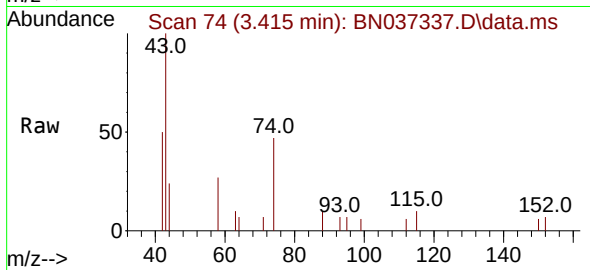
Tgt Ion: 88 Resp: 501
Ion Ratio Lower Upper
88 100
43 79.6 21.0 31.6#
58 67.5 38.0 57.0#





#3
n-Nitrosodimethylamine
Concen: 0.341 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

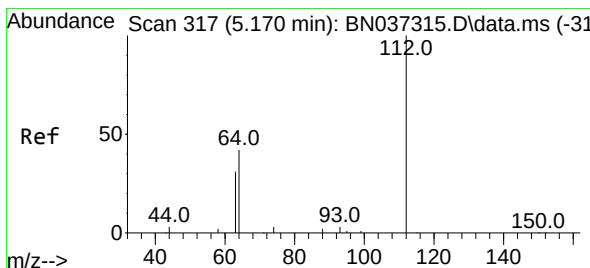
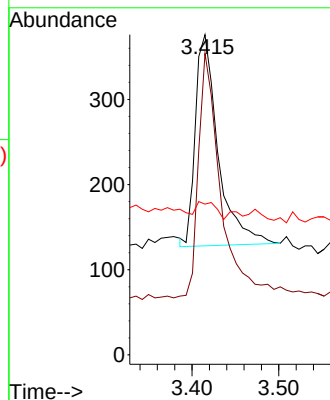
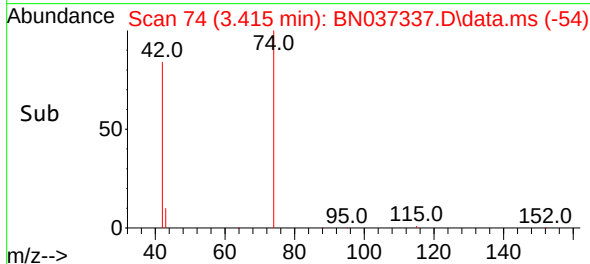
Instrument :
BNA_N
ClientSampleId :
PB168508BS



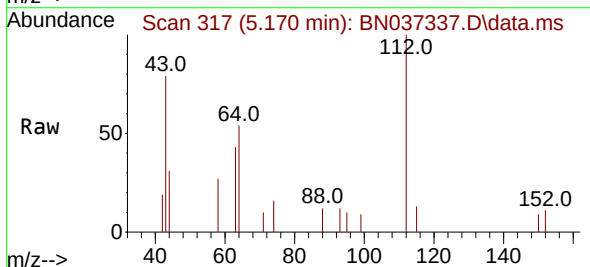
Tgt Ion: 42 Resp: 45
Ion Ratio Lower Upper
42 100
74 116.5 84.3 126.5
44 6.8 5.0 7.4

Manual Integrations
APPROVED

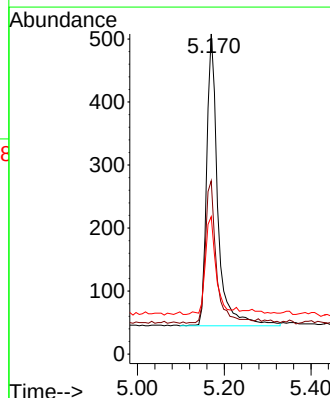
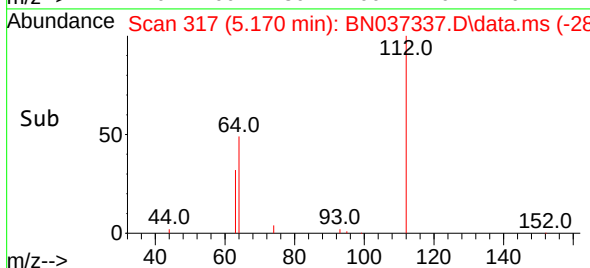
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

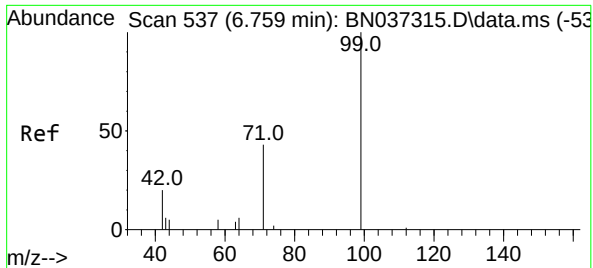


#4
2-Fluorophenol
Concen: 0.352 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54



Tgt Ion: 112 Resp: 825
Ion Ratio Lower Upper
112 100
64 47.0 38.7 58.1
63 31.8 26.4 39.6





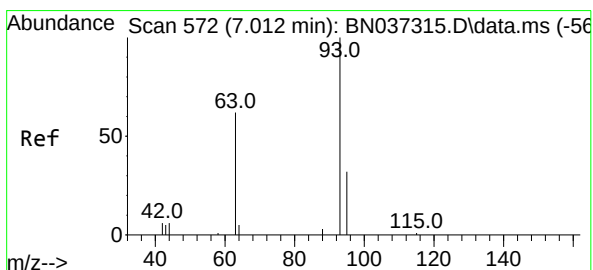
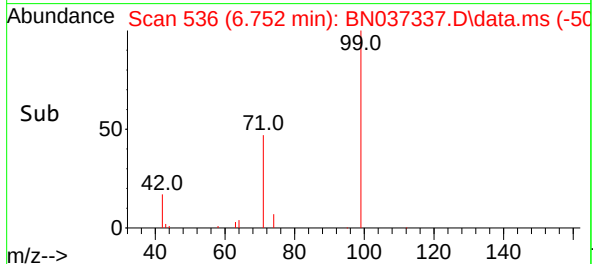
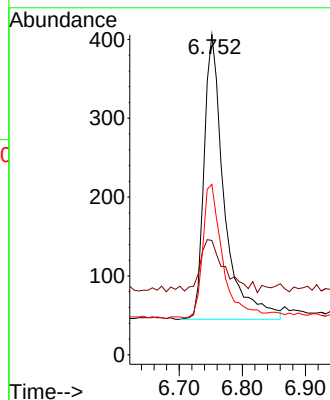
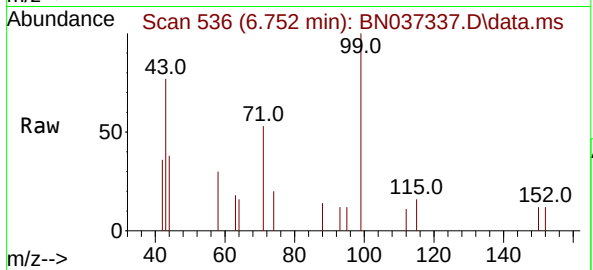
#5
Phenol-d6
Concen: 0.348 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Instrument :
BNA_N
ClientSampleId :
PB168508BS

Tgt Ion: 99 Resp: 802
Ion Ratio Lower Upper
99 100
42 22.7 19.8 29.8
71 46.0 42.6 64.0

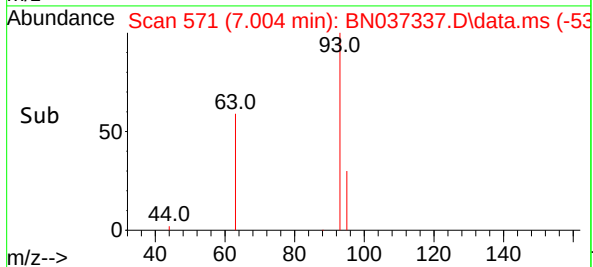
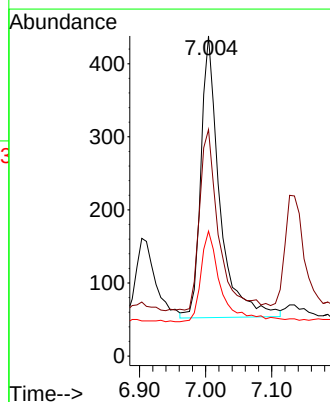
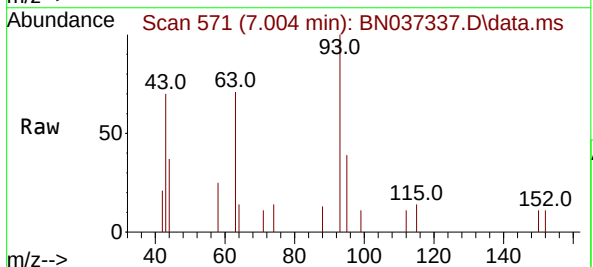
Manual Integrations
APPROVED

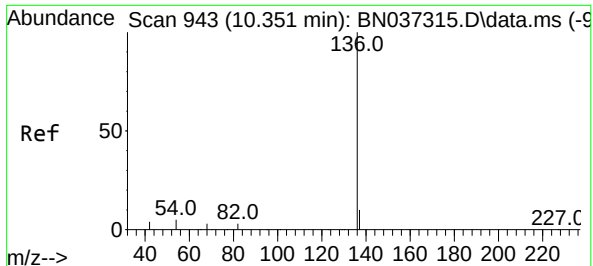
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion: 93 Resp: 760
Ion Ratio Lower Upper
93 100
63 67.0 53.2 79.8
95 34.1 27.3 40.9





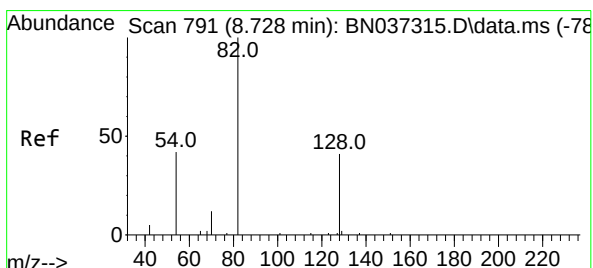
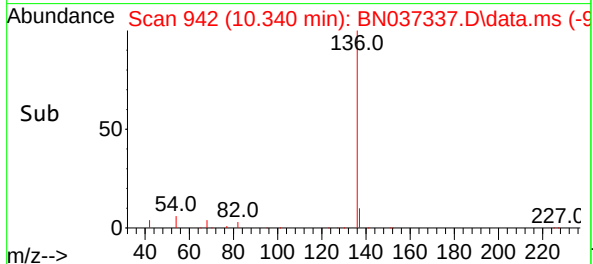
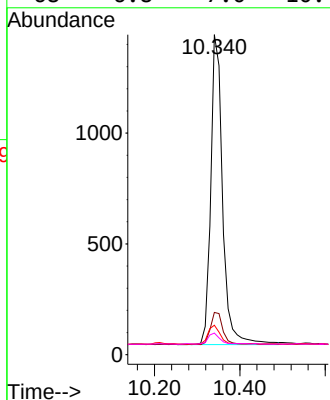
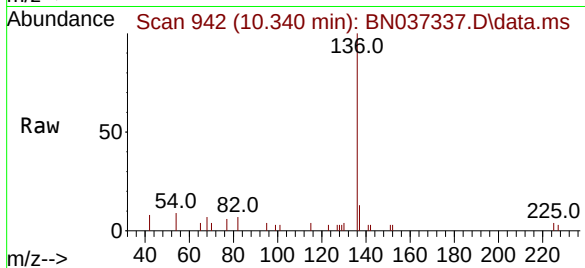
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Instrument :
BNA_N
ClientSampleId :
PB168508BS

Tgt Ion:136 Resp: 2690
Ion Ratio Lower Upper
136 100
137 13.2 12.2 18.2
54 9.2 8.8 13.2
68 6.8 7.0 10.4#

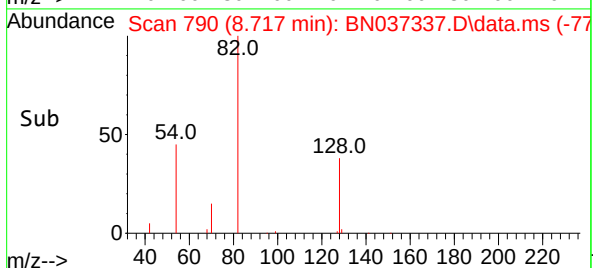
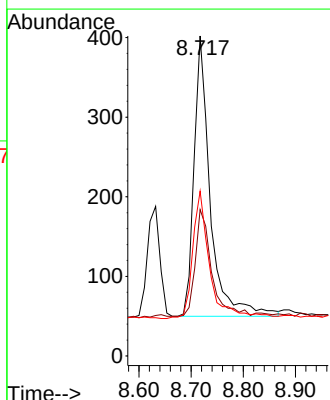
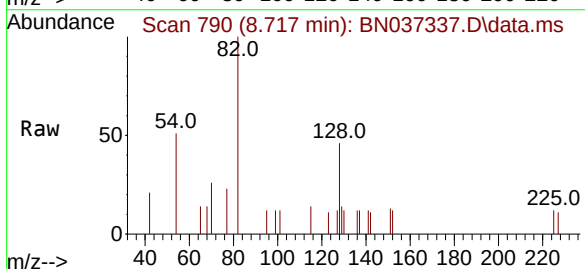
Manual Integrations
APPROVED

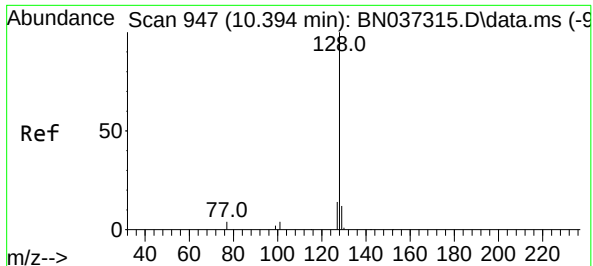
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion: 82 Resp: 760
Ion Ratio Lower Upper
82 100
128 45.8 42.5 63.7
54 51.5 43.2 64.8





#9

Naphthalene

Concen: 0.349 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

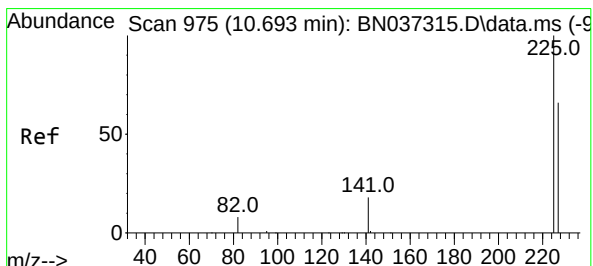
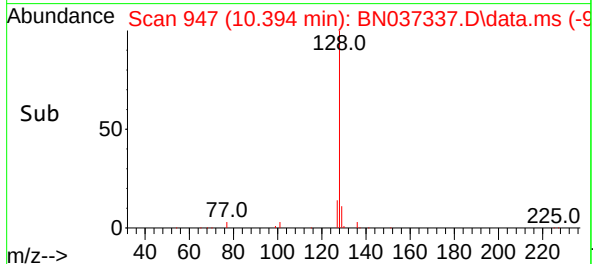
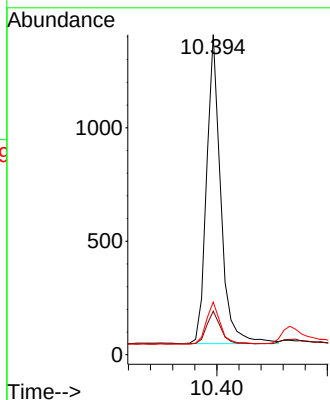
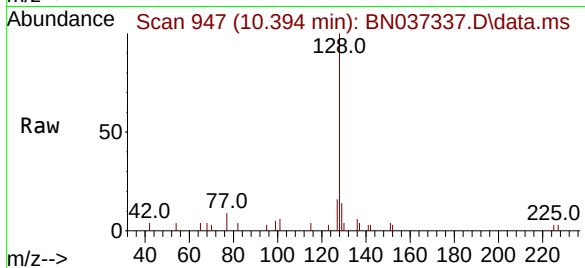
ClientSampleId :

PB168508BS

Tgt Ion:	128	Resp:	242
Ion	Ratio	Lower	Upper
128	100		
129	13.6	14.0	21.0
127	16.5	15.8	23.8

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#10

Hexachlorobutadiene

Concen: 0.318 ng

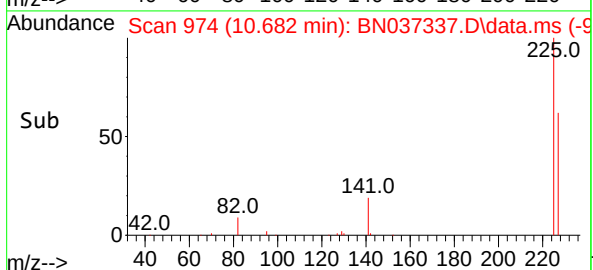
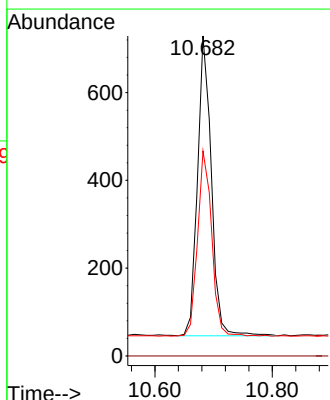
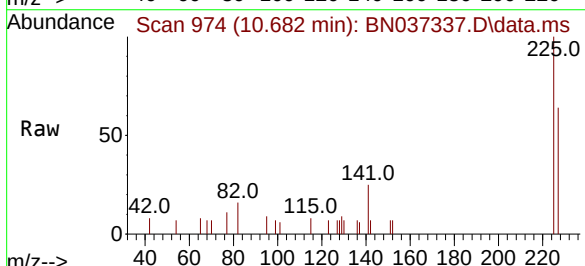
RT: 10.682 min Scan# 974

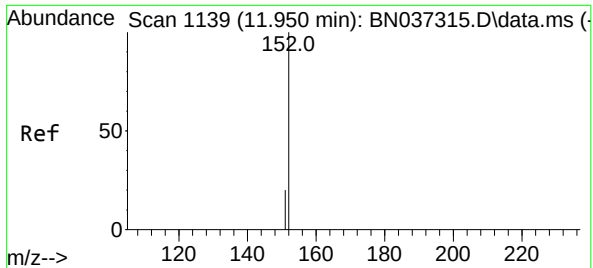
Delta R.T. -0.011 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

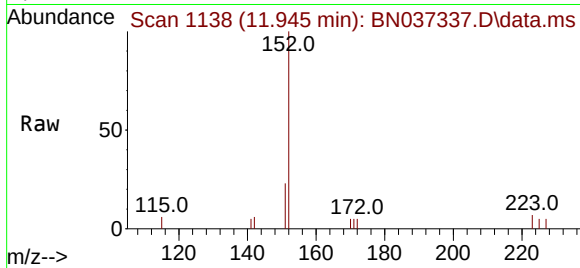
Tgt Ion:	225	Resp:	1119
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.3	75.5





#11
2-Methylnaphthalene-d10
Concen: 0.371 ng m
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

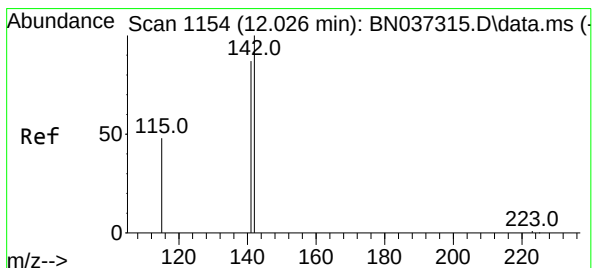
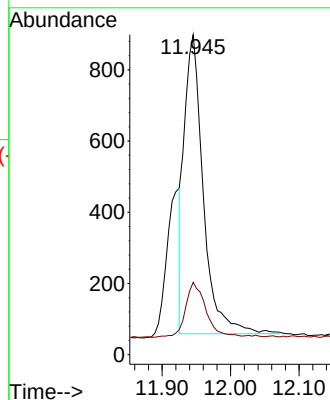
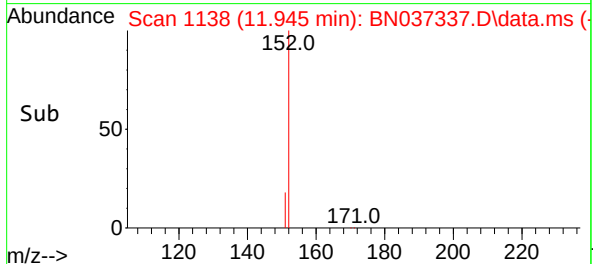
Instrument :
BNA_N
ClientSampleId :
PB168508BS



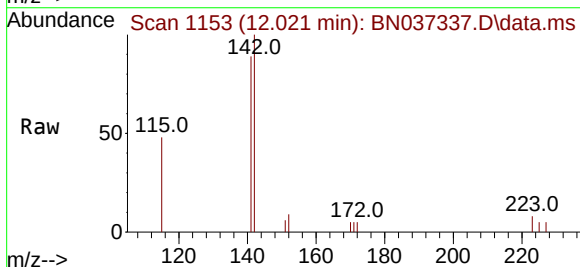
Tgt Ion:152 Resp: 162
Ion Ratio Lower Upper
152 100
151 19.7 17.4 26.0

Manual Integrations
APPROVED

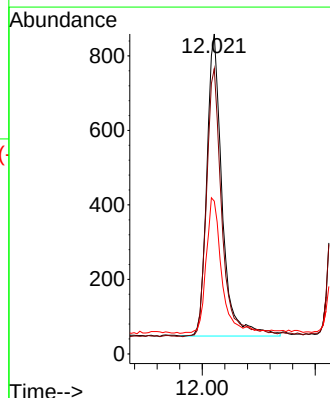
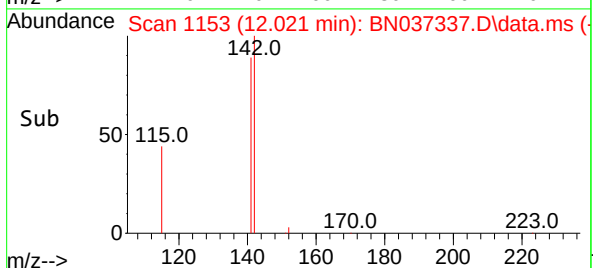
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

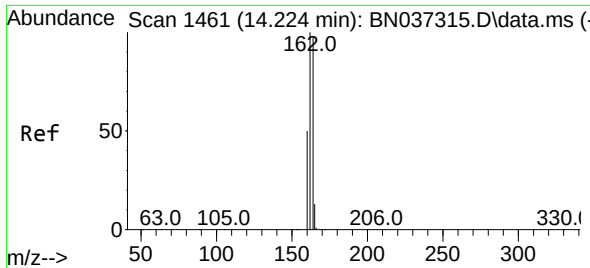


#12
2-Methylnaphthalene
Concen: 0.310 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54



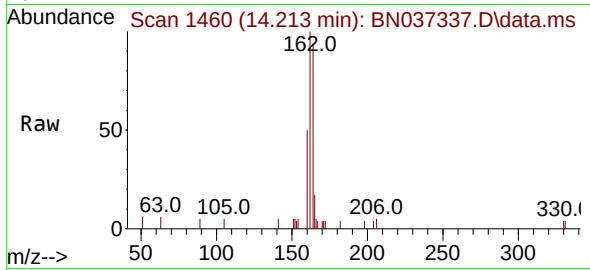
Tgt Ion:142 Resp: 1521
Ion Ratio Lower Upper
142 100
141 89.2 70.2 105.2
115 47.7 43.0 64.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

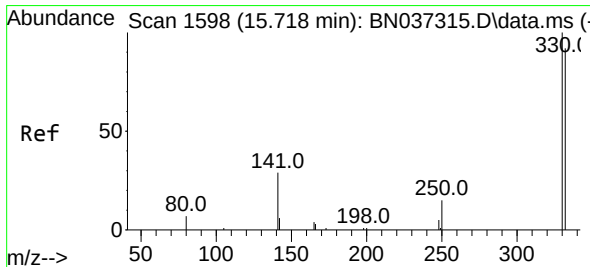
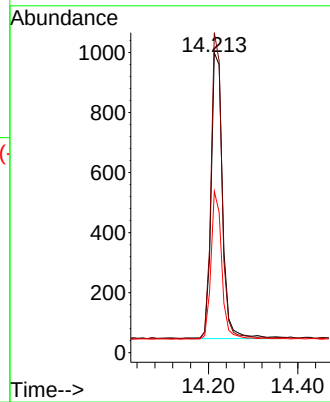
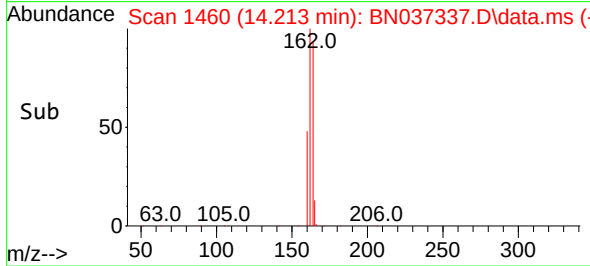
Instrument :
BNA_N
ClientSampleId :
PB168508BS



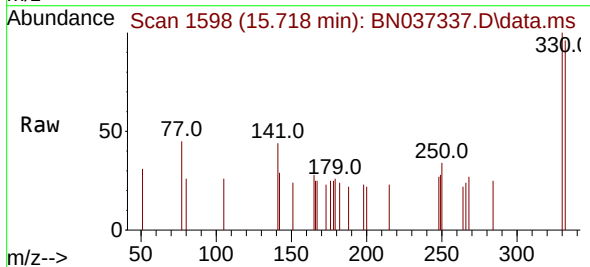
Tgt Ion:164 Resp: 1680
Ion Ratio Lower Upper
164 100
162 106.7 81.5 122.3
160 53.9 43.0 64.4

Manual Integrations
APPROVED

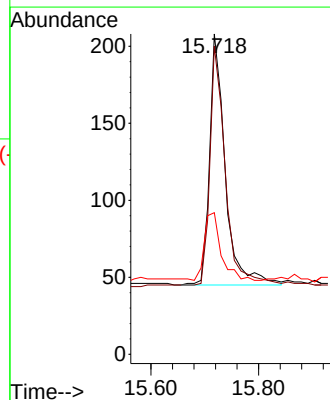
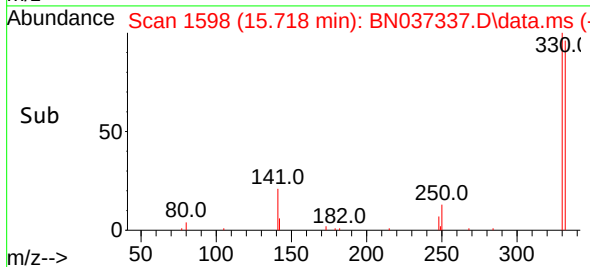
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

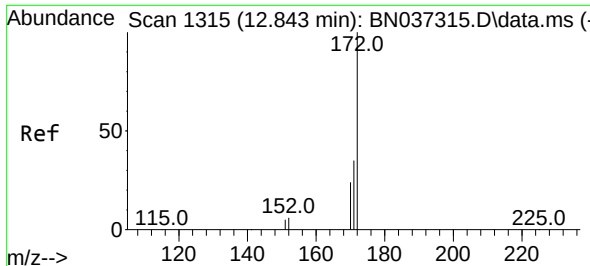


#14
2,4,6-Tribromophenol
Concen: 0.265 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54



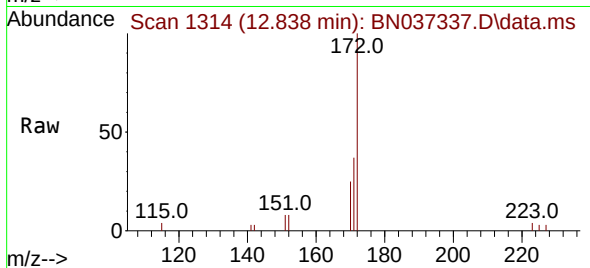
Tgt Ion:330 Resp: 329
Ion Ratio Lower Upper
330 100
332 93.0 78.4 117.6
141 28.9 24.4 36.6





#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 12.838 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

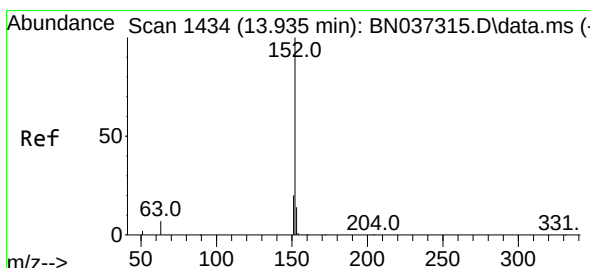
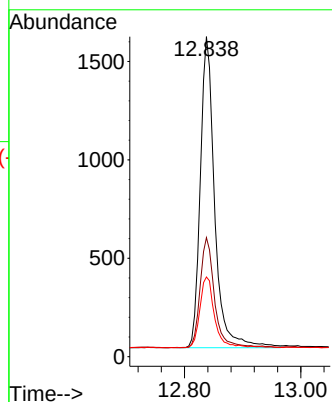
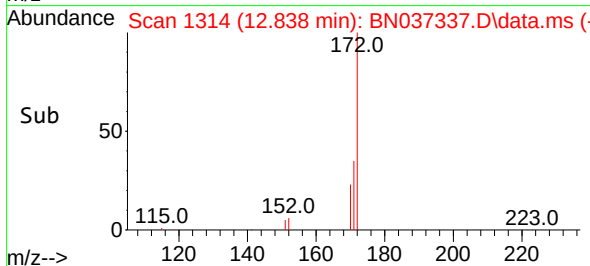
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion:172 Resp: 2710
Ion Ratio Lower Upper
172 100
171 37.2 30.8 46.2
170 24.9 21.9 32.9

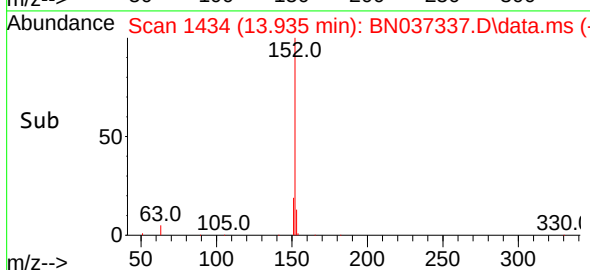
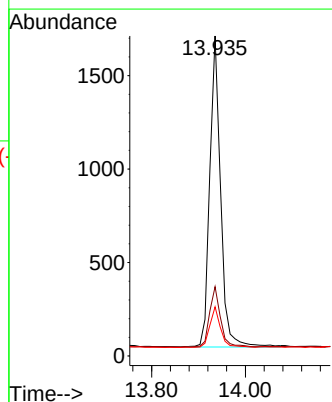
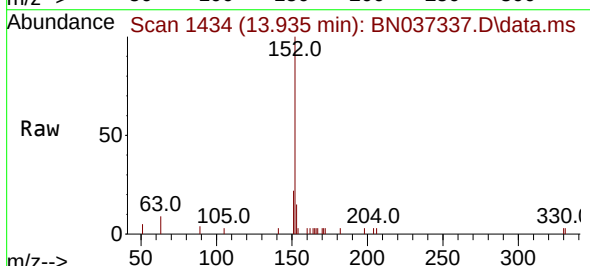
Manual Integrations
APPROVED

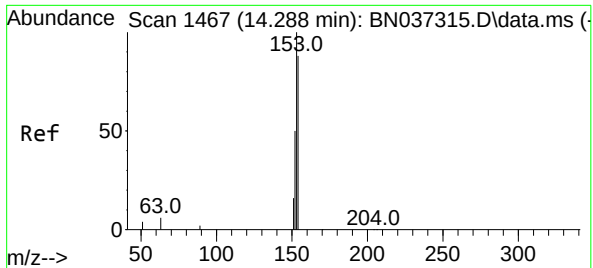
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

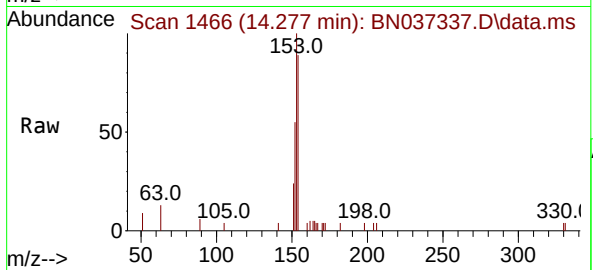
Tgt Ion:152 Resp: 2681
Ion Ratio Lower Upper
152 100
151 19.3 16.6 24.8
153 13.0 10.2 15.2





#17
Acenaphthene
Concen: 0.334 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

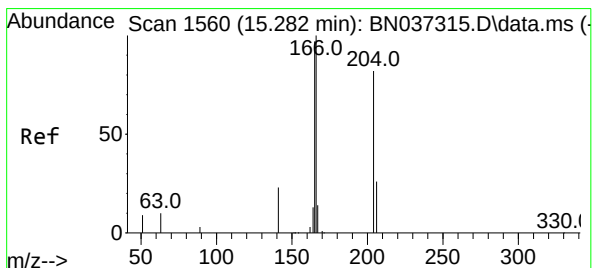
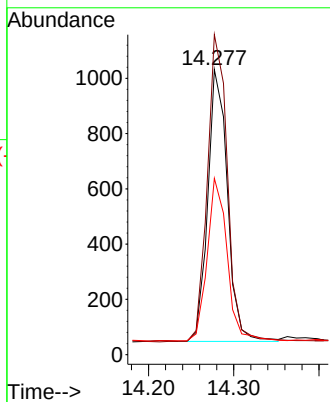
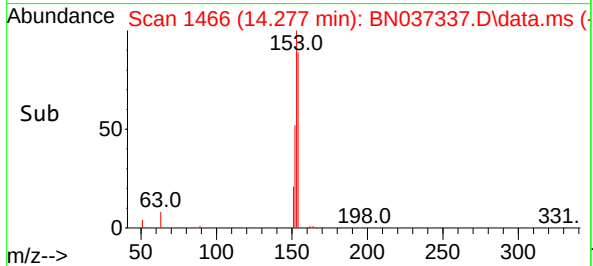
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion:154 Resp: 157
Ion Ratio Lower Upper
154 100
153 117.1 93.1 139.7
152 60.2 48.6 73.0

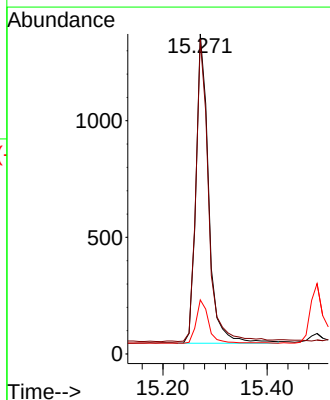
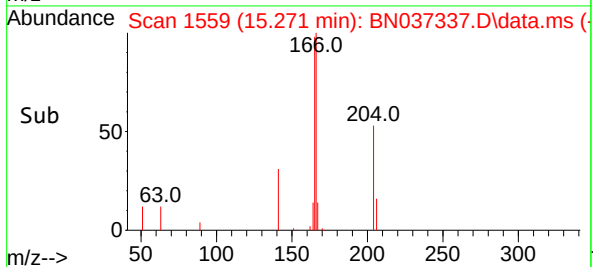
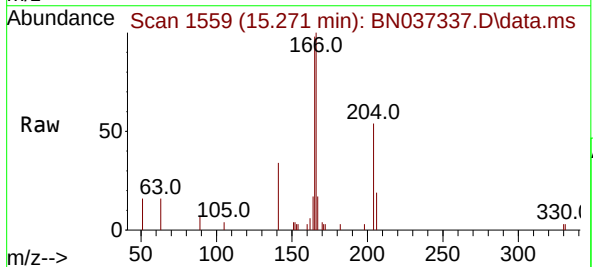
Manual Integrations
APPROVED

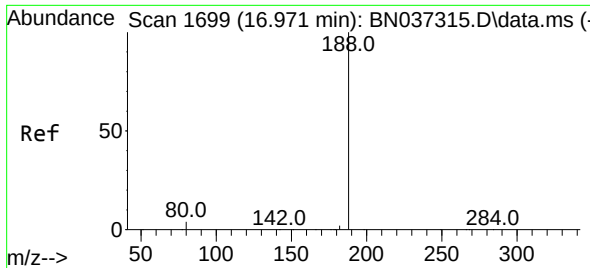
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#18
Fluorene
Concen: 0.338 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:166 Resp: 2259
Ion Ratio Lower Upper
166 100
165 97.0 79.5 119.3
167 13.3 10.7 16.1





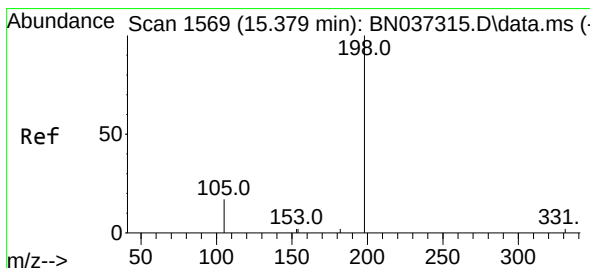
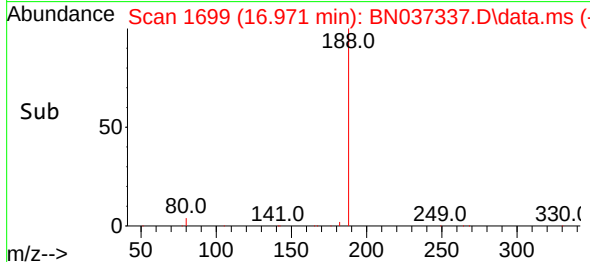
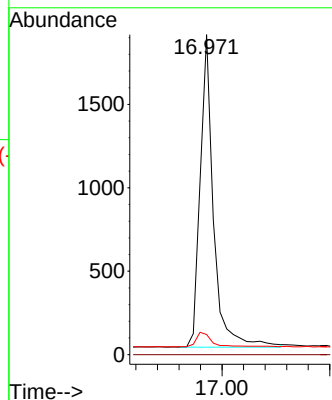
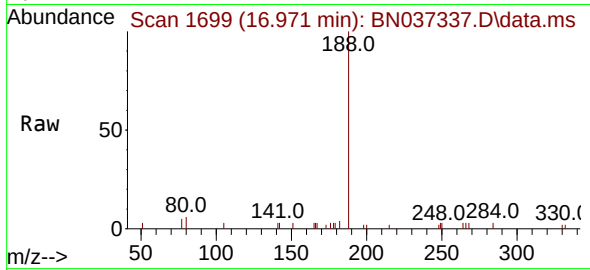
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Instrument :
BNA_N
ClientSampleId :
PB168508BS

Tgt Ion:188 Resp: 321
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.3 6.2 9.2

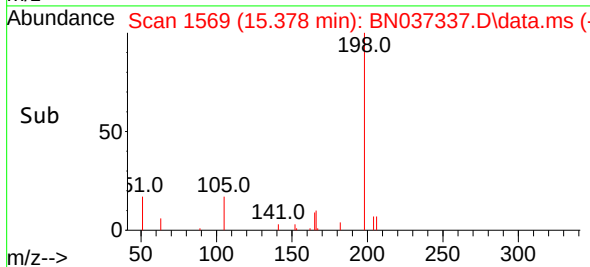
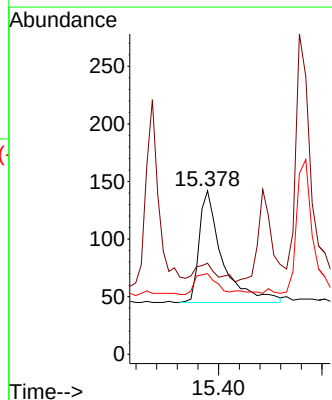
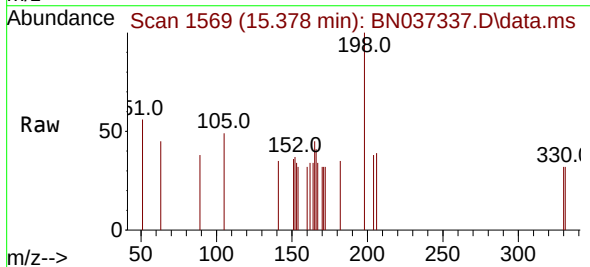
Manual Integrations
APPROVED

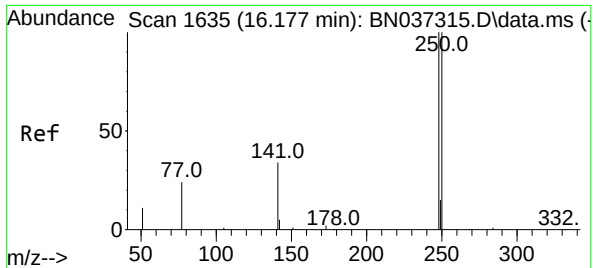
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.306 ng
RT: 15.378 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

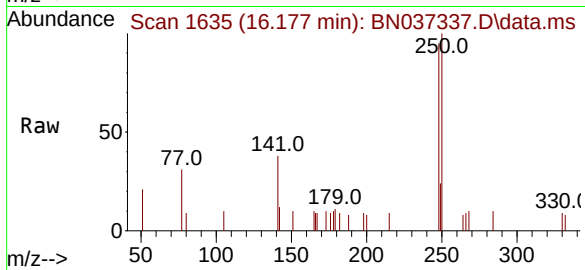
Tgt Ion:198 Resp: 302
Ion Ratio Lower Upper
198 100
51 55.6 51.4 77.0
105 49.3 45.5 68.3





#21
4-Bromophenyl-phenylether
Concen: 0.343 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

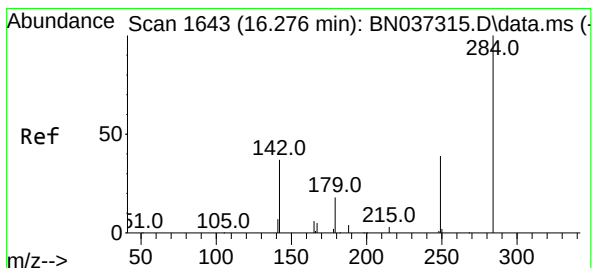
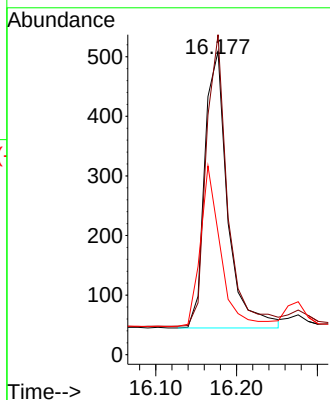
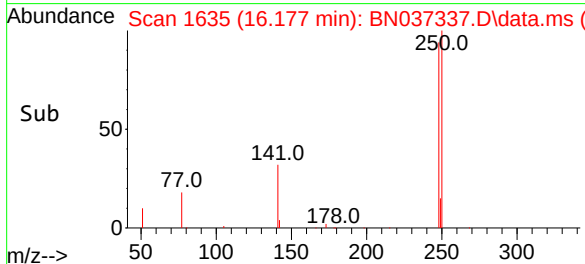
Instrument :
BNA_N
ClientSampleId :
PB168508BS



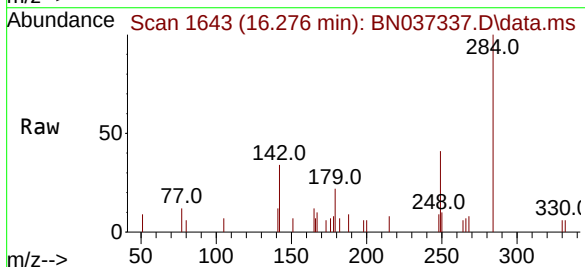
Tgt Ion:248 Resp: 914
Ion Ratio Lower Upper
248 100
250 105.5 80.4 120.6
141 40.3 33.3 49.9

Manual Integrations
APPROVED

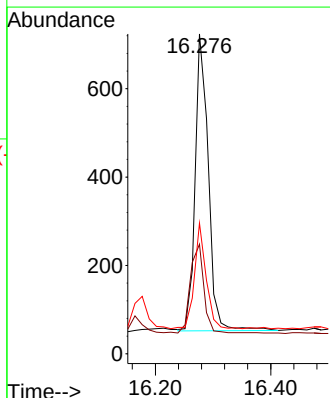
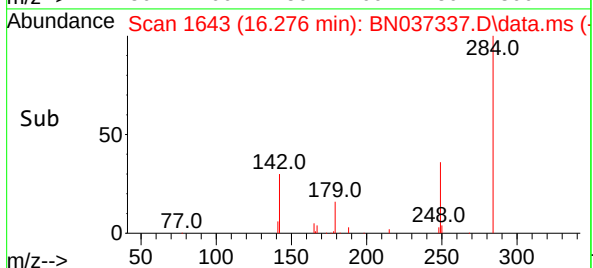
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

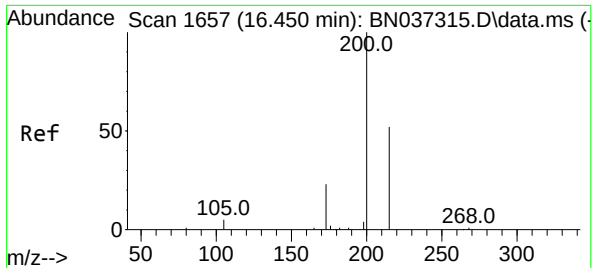


#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54



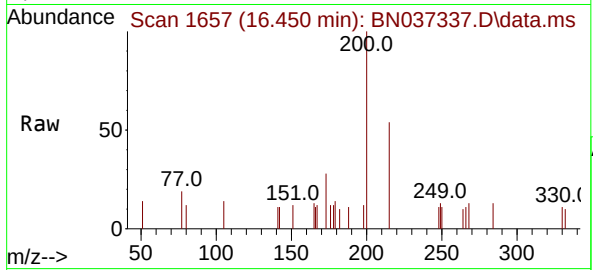
Tgt Ion:284 Resp: 1066
Ion Ratio Lower Upper
284 100
142 30.2 27.0 40.6
249 31.9 28.8 43.2





#23
Atrazine
Concen: 0.357 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

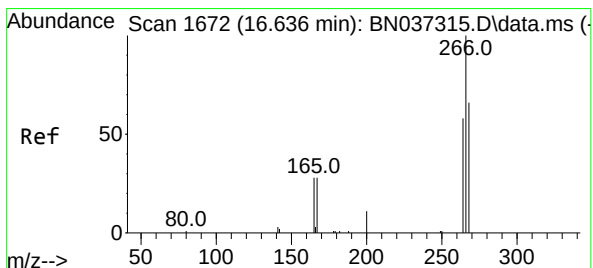
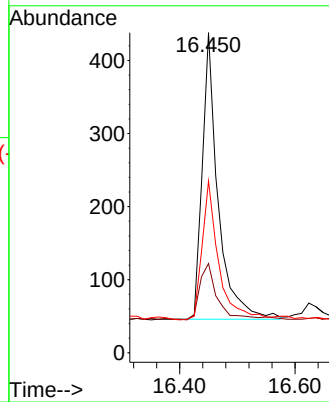
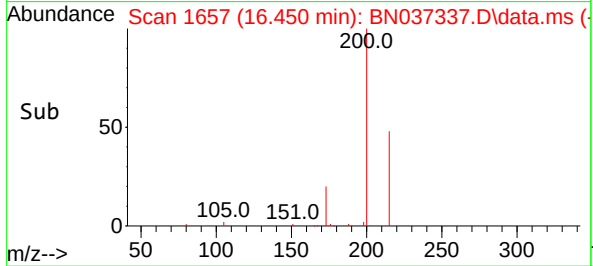
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion:200 Resp: 74.1
Ion Ratio Lower Upper
200 100
173 27.9 29.2 43.8
215 53.7 48.8 73.2

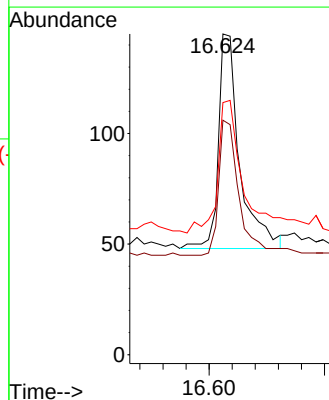
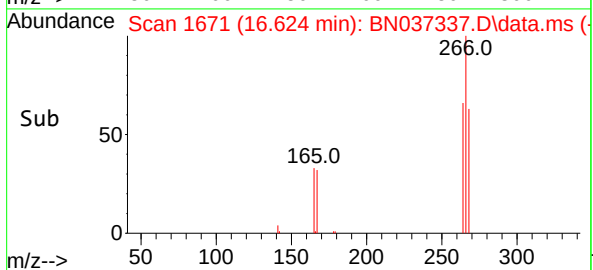
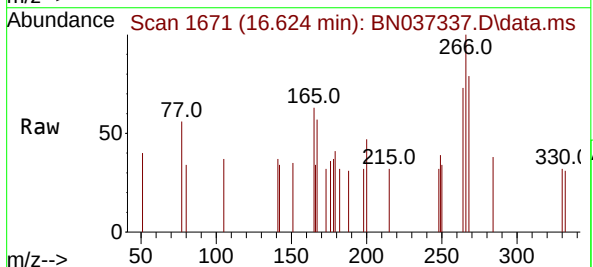
Manual Integrations
APPROVED

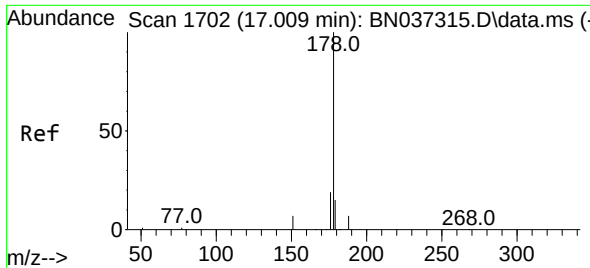
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#24
Pentachlorophenol
Concen: 0.162 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.013 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

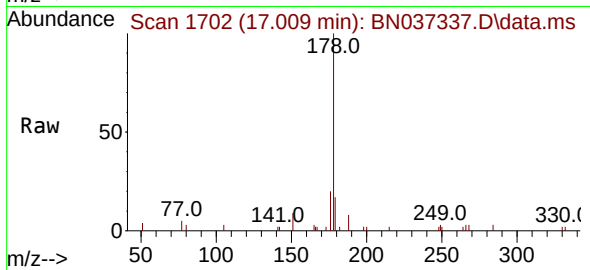
Tgt Ion:266 Resp: 250
Ion Ratio Lower Upper
266 100
264 62.0 50.3 75.5
268 77.6 55.3 82.9





#25
Phenanthrene
Concen: 0.368 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

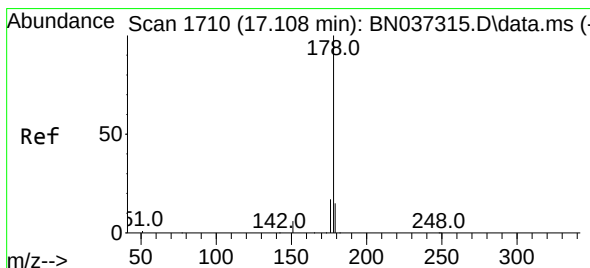
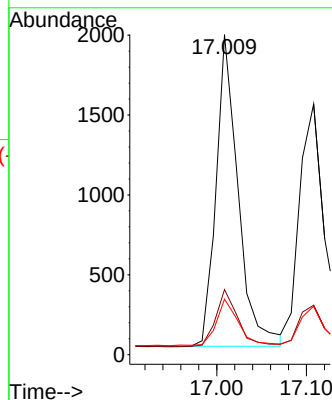
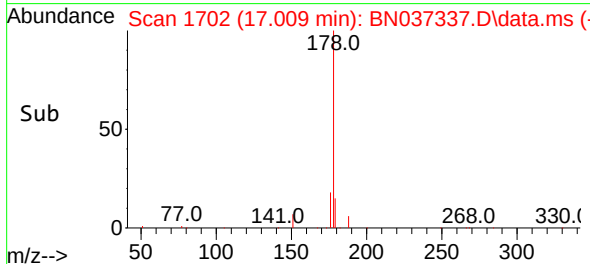
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion:178 Resp: 3320
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.0 12.9 19.3

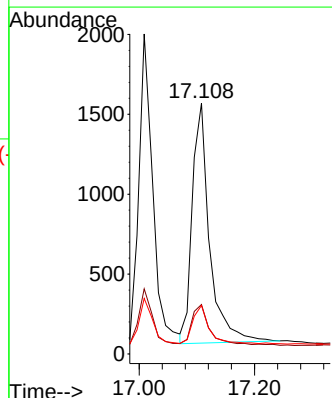
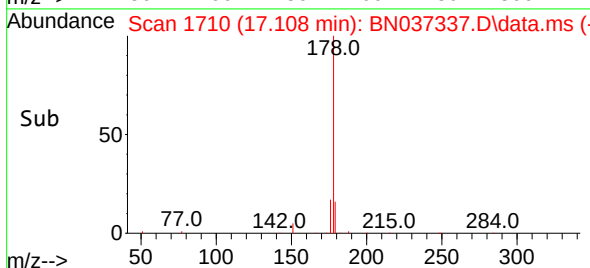
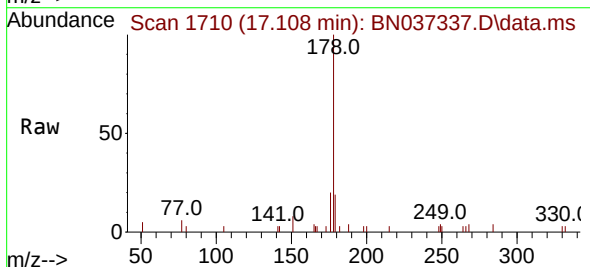
Manual Integrations
APPROVED

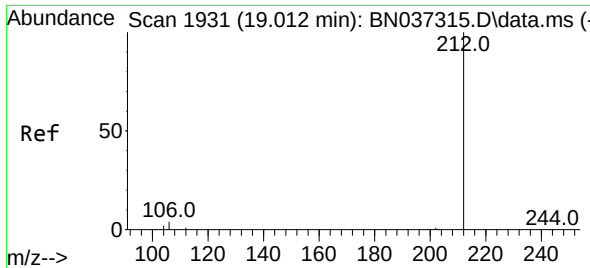
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#26
Anthracene
Concen: 0.369 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

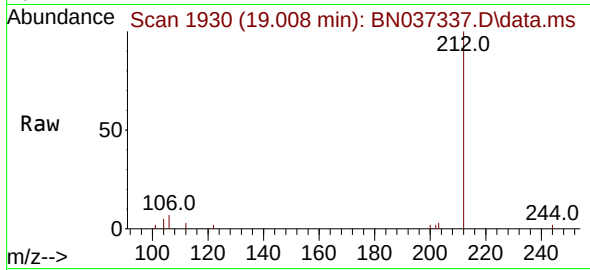
Tgt Ion:178 Resp: 3130
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 16.4 13.0 19.6





#27
Fluoranthene-d10
Concen: 0.329 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

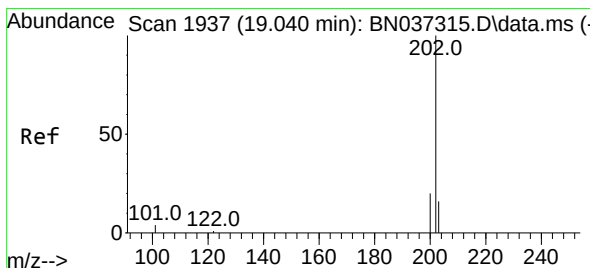
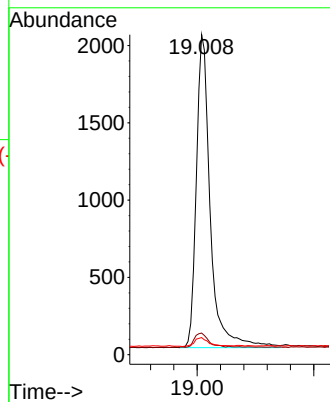
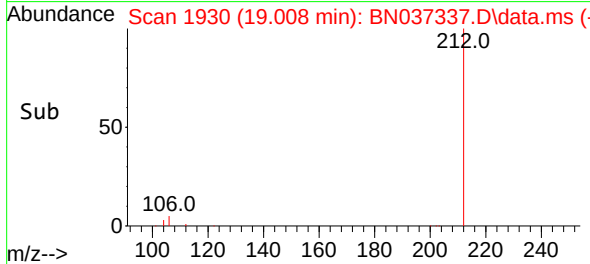
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion:212 Resp: 335
Ion Ratio Lower Upper
212 100
106 4.7 3.0 4.4
104 3.0 2.0 3.0

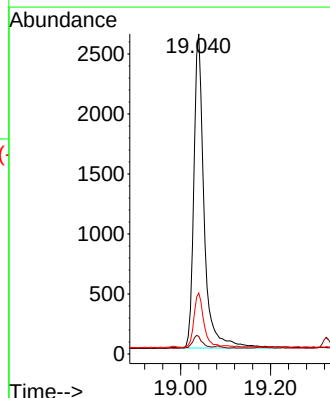
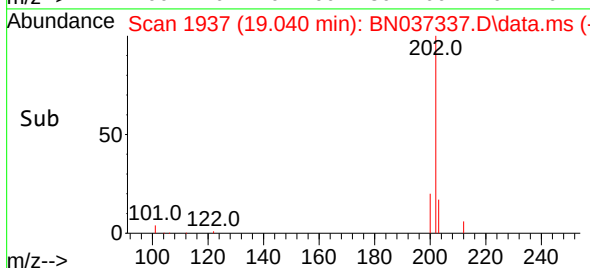
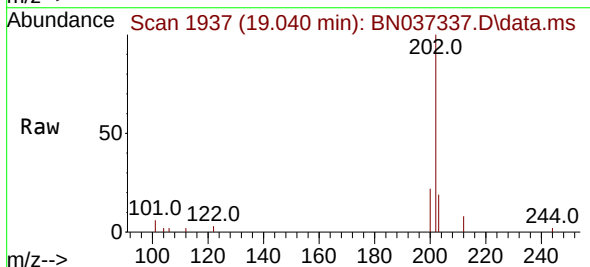
Manual Integrations
APPROVED

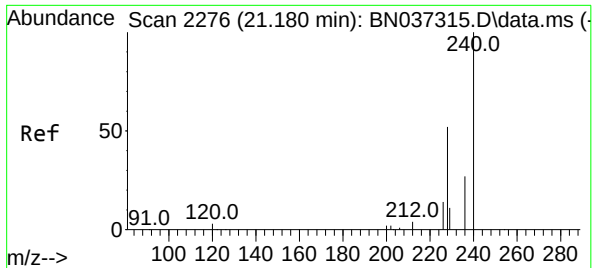
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#28
Fluoranthene
Concen: 0.331 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

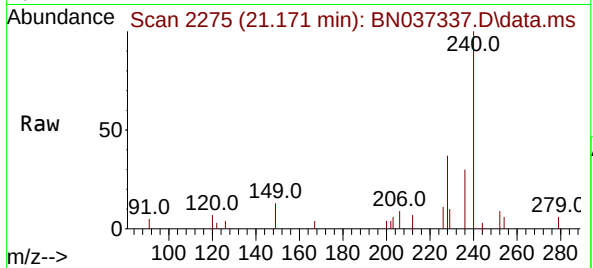
Tgt Ion:202 Resp: 4162
Ion Ratio Lower Upper
202 100
101 3.9 3.0 4.6
203 16.6 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2115
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

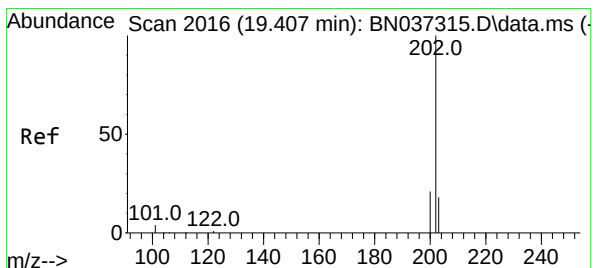
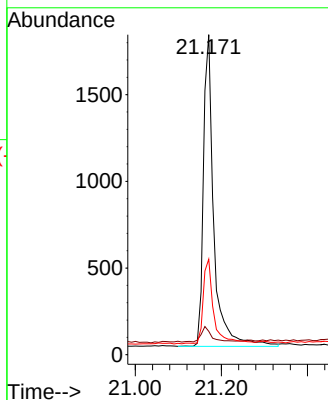
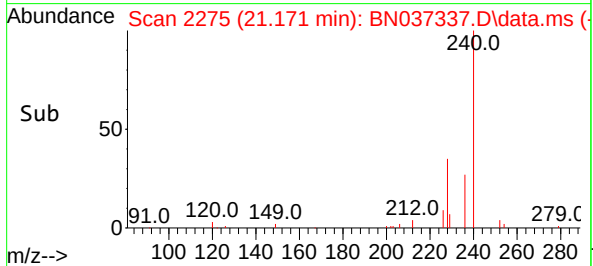
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion:240 Resp: 3029
Ion Ratio Lower Upper
240 100
120 7.3 7.5 11.3
236 29.8 24.9 37.3

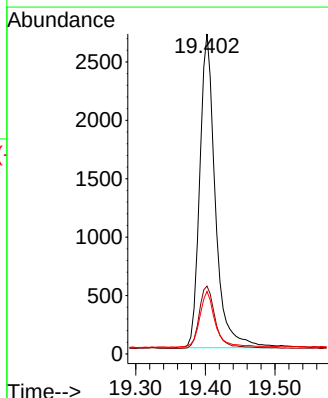
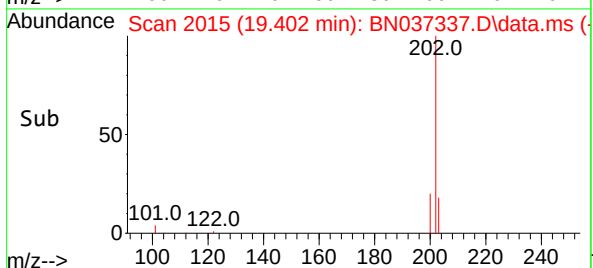
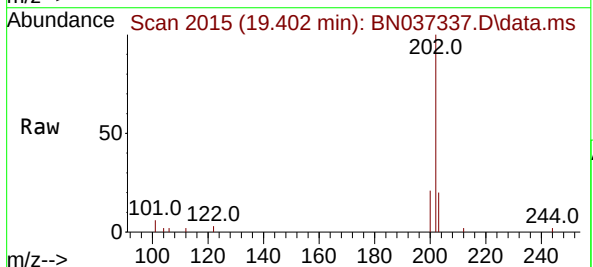
Manual Integrations
APPROVED

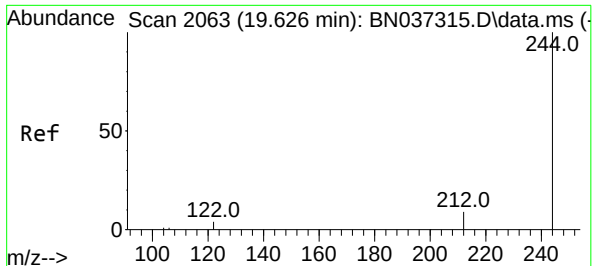
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#30
Pyrene
Concen: 0.363 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:202 Resp: 4189
Ion Ratio Lower Upper
202 100
200 20.7 16.8 25.2
203 17.8 14.5 21.7





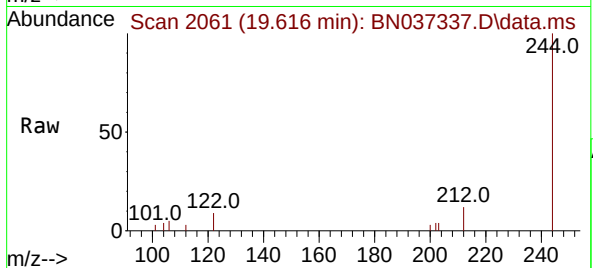
#31
Terphenyl-d14
Concen: 0.363 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

ClientSampleId :

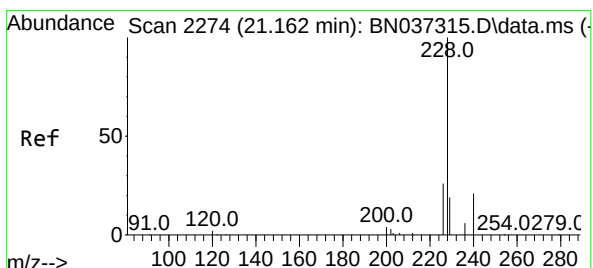
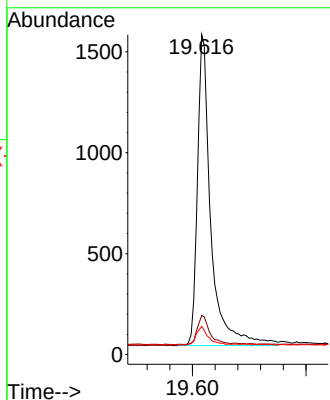
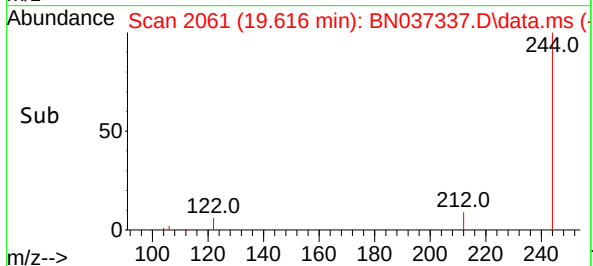
PB168508BS



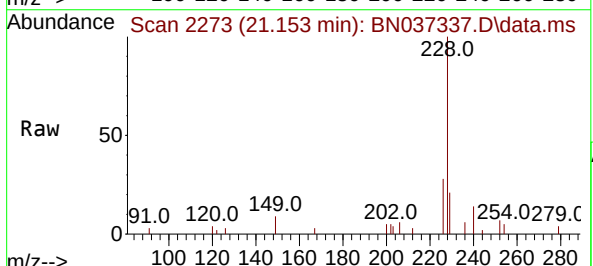
Tgt Ion:244 Resp: 252
Ion Ratio Lower Upper
244 100
212 12.2 11.1 16.7
122 8.8 7.2 10.8

Manual Integrations
APPROVED

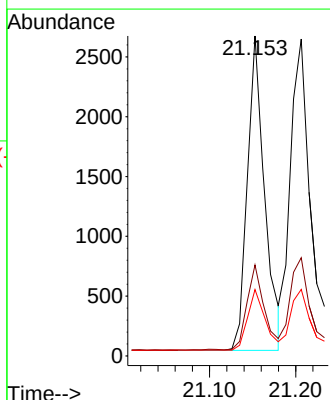
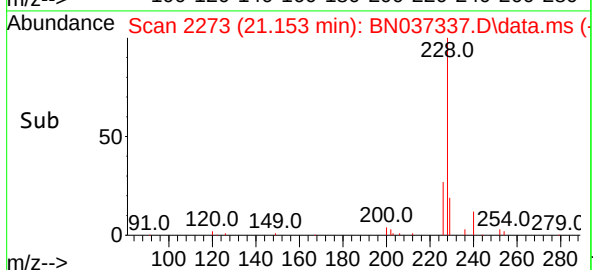
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

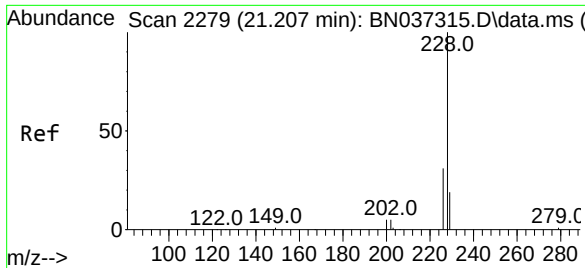


#32
Benzo(a)anthracene
Concen: 0.377 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54



Tgt Ion:228 Resp: 3675
Ion Ratio Lower Upper
228 100
226 28.4 23.0 34.4
229 20.7 17.4 26.0





#33

Chrysene

Concen: 0.363 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

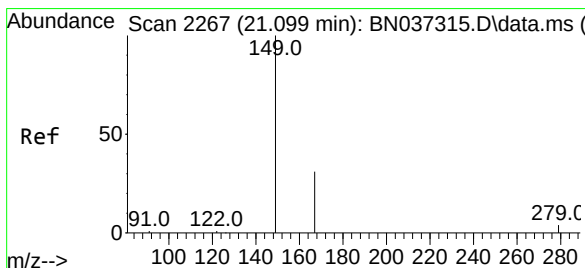
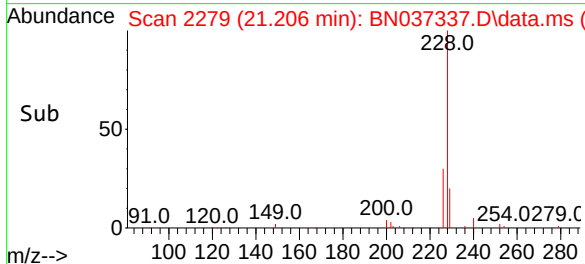
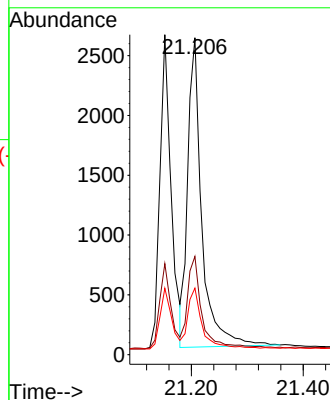
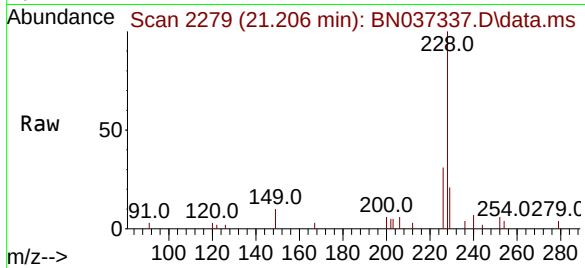
ClientSampleId :

PB168508BS

Tgt Ion:	228	Resp:	451
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.4	38.2
229	21.0	17.3	25.9

**Manual Integrations
APPROVED**

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

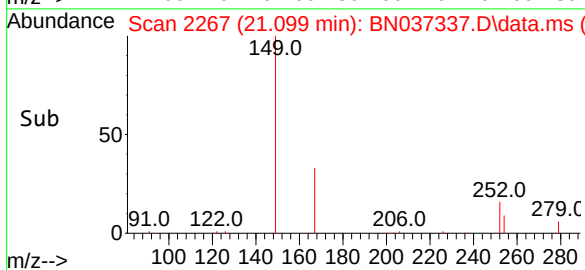
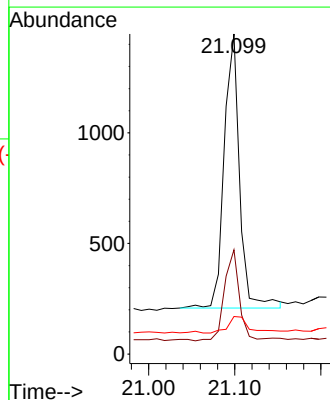
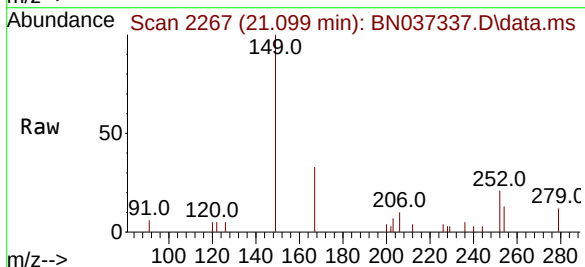
RT: 21.099 min Scan# 2267

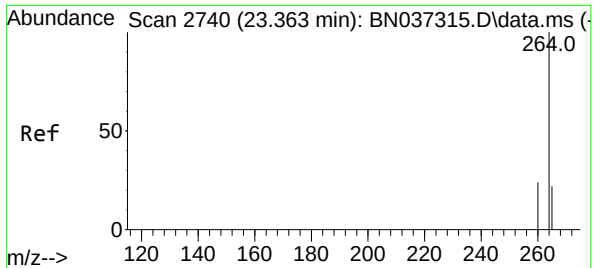
Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

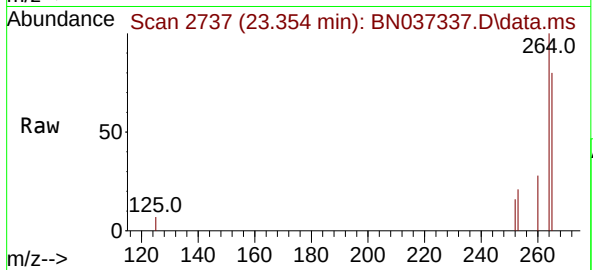
Tgt Ion:	149	Resp:	1537
Ion Ratio	Lower	Upper	
149	100		
167	31.9	24.6	37.0
279	8.3	6.5	9.7





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

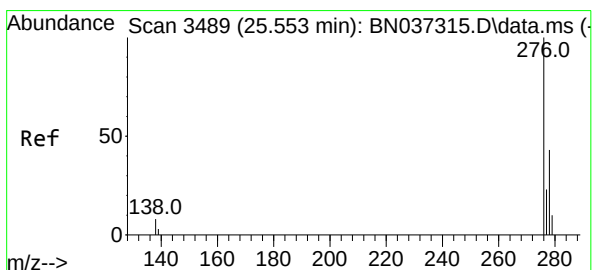
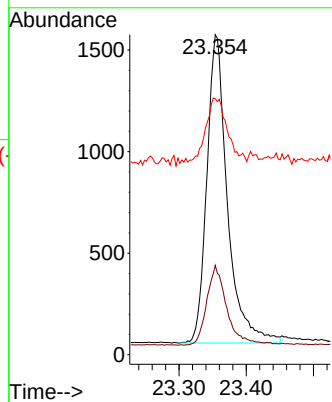
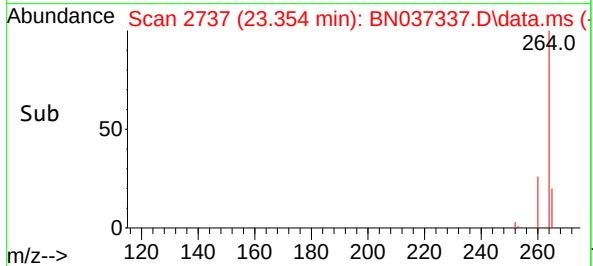
Instrument :
BNA_N
ClientSampleId :
PB168508BS



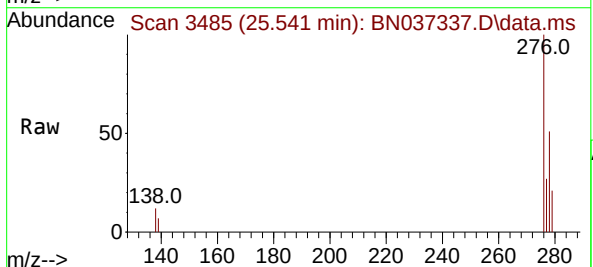
Tgt Ion:264 Resp: 323
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 80.0 71.4 107.0

Manual Integrations
APPROVED

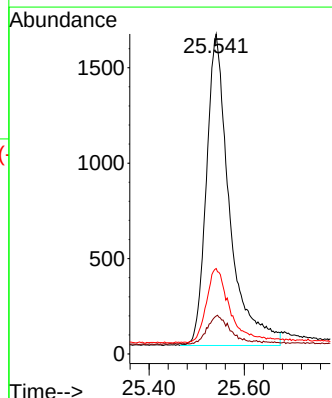
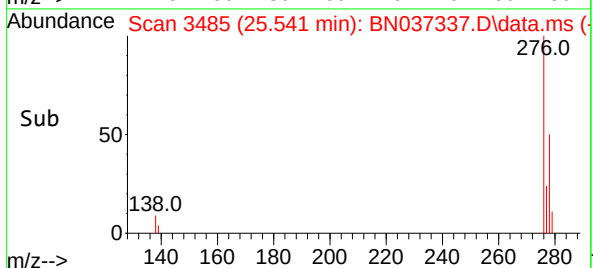
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

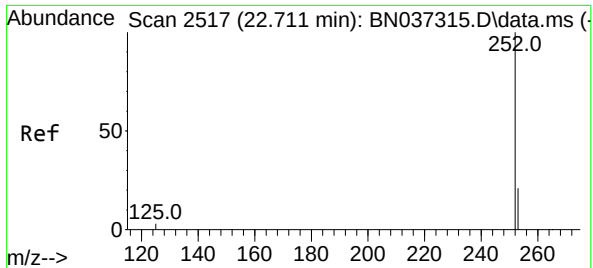


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.012 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54



Tgt Ion:276 Resp: 5500
Ion Ratio Lower Upper
276 100
138 8.9 2.2 3.2#
277 24.1 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.358 ng

RT: 22.702 min Scan# 2514

Delta R.T. -0.009 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

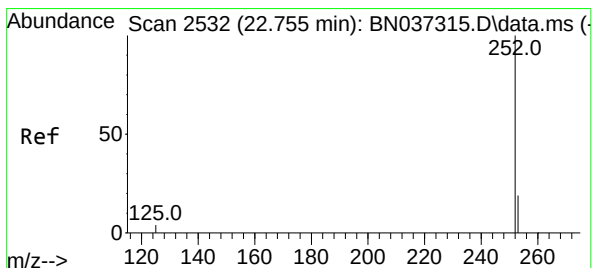
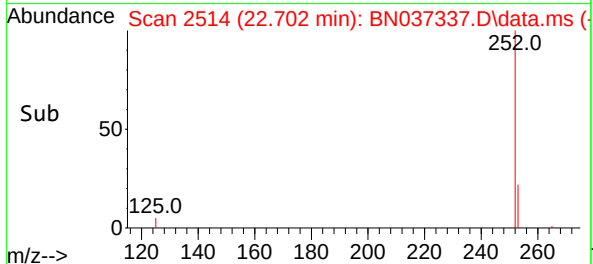
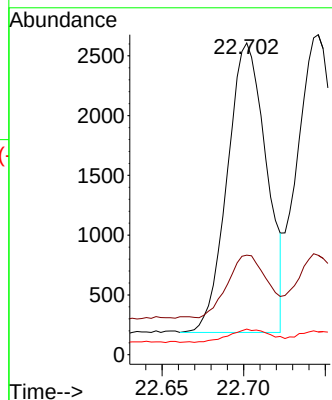
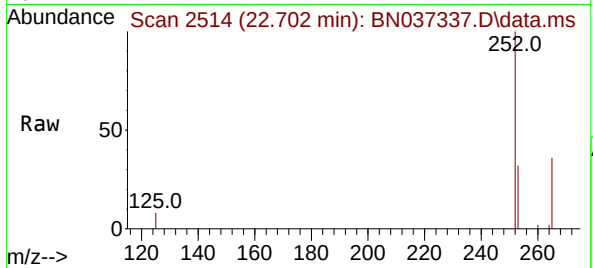
Instrument :

BNA_N

ClientSampleId :

PB168508BS

Tgt Ion:252	Resp:	4039
Ion Ratio	Lower	Upper
252	100	
253	31.9	26.6 40.0
125	8.2	6.1 9.1

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

#38

Benzo(k)fluoranthene

Concen: 0.374 ng

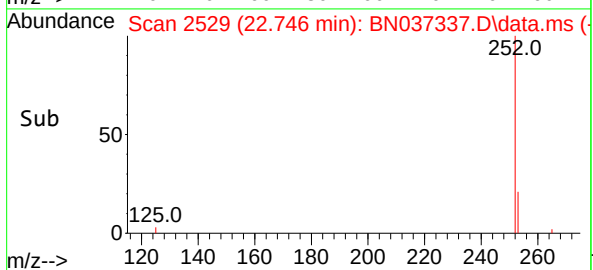
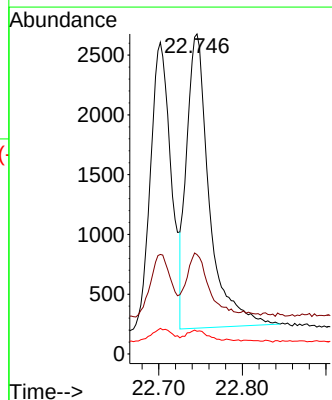
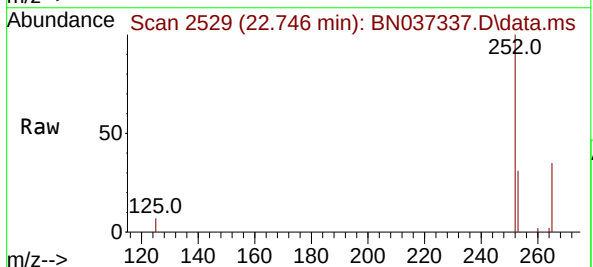
RT: 22.746 min Scan# 2529

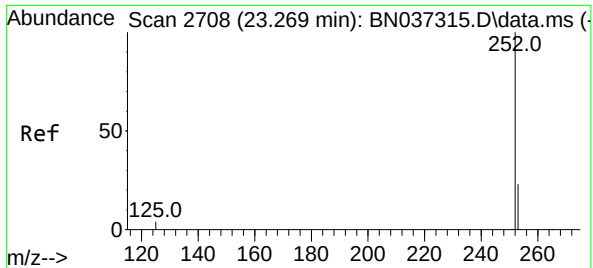
Delta R.T. -0.009 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Tgt Ion:252	Resp:	4639
Ion Ratio	Lower	Upper
252	100	
253	31.1	26.7 40.1
125	7.1	6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.386 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

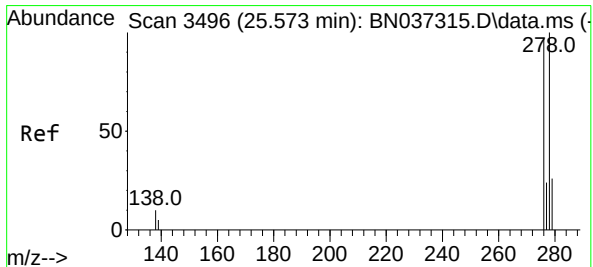
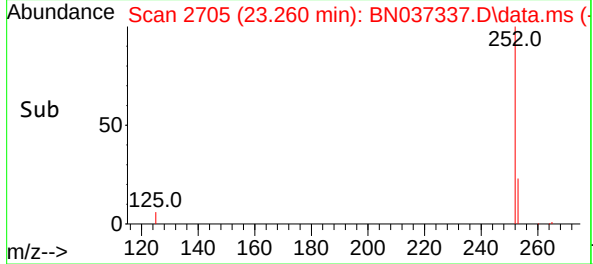
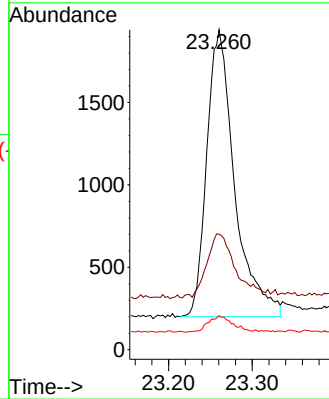
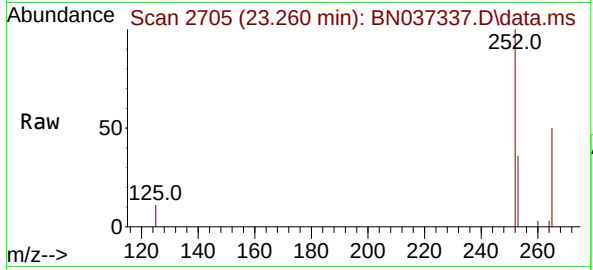
Instrument :

BNA_N

ClientSampleId :

PB168508BS

Tgt Ion:	252	Resp:	404
Ion Ratio	Lower	Upper	
252	100		
253	36.1	31.6	47.4
125	10.7	8.4	12.6

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

#40

Dibenzo(a,h)anthracene

Concen: 0.375 ng

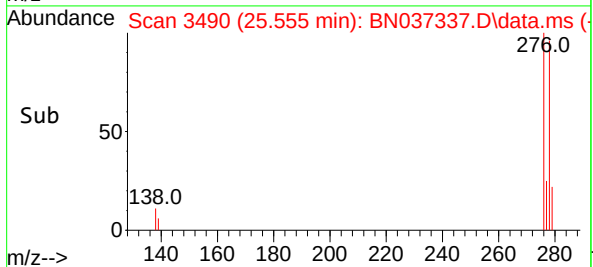
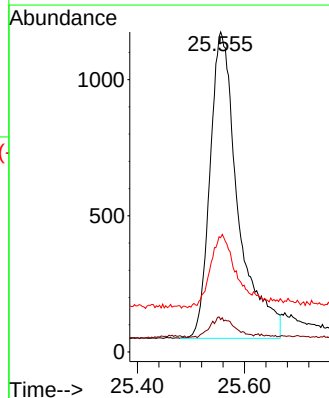
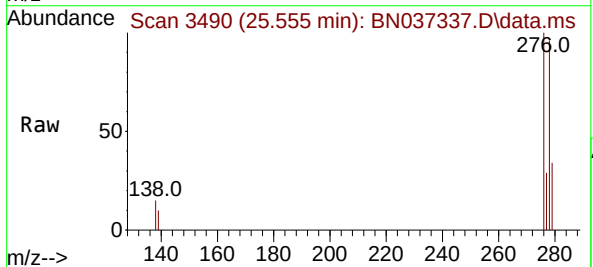
RT: 25.555 min Scan# 3490

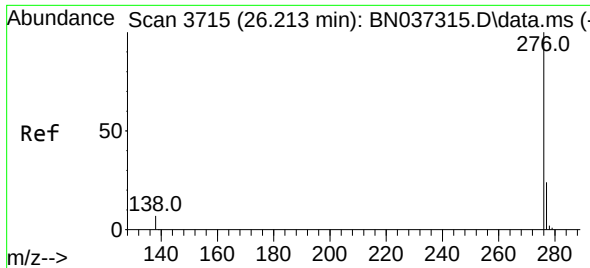
Delta R.T. -0.018 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

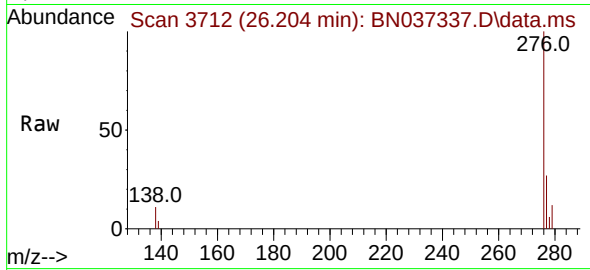
Tgt Ion:	278	Resp:	4089
Ion Ratio	Lower	Upper	
278	100		
139	10.1	10.2	15.4
279	35.7	35.6	53.4





#41
Benzo(g,h,i)perylene
Concen: 0.373 ng
RT: 26.204 min Scan# 31
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

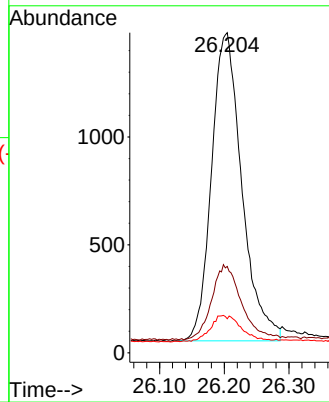
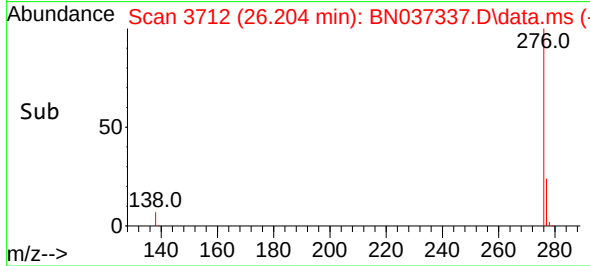
Instrument :
BNA_N
ClientSampleId :
PB168508BS



Tgt Ion: 276 Resp: 464
Ion Ratio Lower Upper
276 100
277 27.0 22.7 34.1
138 10.7 9.4 14.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MS	SDG No.:	Q2329
Lab Sample ID:	Q2329-11MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037326.D	1	06/17/25 08:55	06/18/25 23:15	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.43		30 - 150		108%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	58 - 132		134%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	620		7.568			
1146-65-2	Naphthalene-d8	1370		10.351			
15067-26-2	Acenaphthene-d10	997		14.224			
1517-22-2	Phenanthrene-d10	2210		16.971			
1719-03-5	Chrysene-d12	2270		21.171			
1520-96-3	Perylene-d12	2390		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\BN061925\
 Data File : BN037326.D
 Acq On : 18 Jun 2025 23:15
 Operator : RC/JU
 Sample : Q2329-11MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 06/19/2025
 Supervised By :mohammad ahmed 06/23/2025

Quant Time: Jun 19 06:43:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	620	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1373	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	997	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2208	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2274	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	2391	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	166	0.147	ng	0.00
5) Phenol-d6	6.752	99	115	0.104	ng	0.00
8) Nitrobenzene-d5	8.717	82	379	0.331	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	876m	0.392	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	301	0.409	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	1560	0.357	ng	0.00
27) Fluoranthene-d10	19.007	212	3039	0.434	ng	0.00
31) Terphenyl-d14	19.616	244	2795	0.536	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	788	1.424	ng	# 88
3) n-Nitrosodimethylamine	3.422	42	117	0.182	ng	# 88
6) bis(2-Chloroethyl)ether	7.004	93	320	0.337	ng	94
9) Naphthalene	10.394	128	1210	0.341	ng	97
10) Hexachlorobutadiene	10.682	225	575	0.320	ng	# 100
12) 2-Methylnaphthalene	12.021	142	794	0.317	ng	97
16) Acenaphthylene	13.935	152	1600	0.381	ng	99
17) Acenaphthene	14.277	154	956	0.343	ng	98
18) Fluorene	15.271	166	1416	0.359	ng	98
20) 4,6-Dinitro-2-methylph...	15.368	198	288	0.425	ng	# 78
21) 4-Bromophenyl-phenylether	16.164	248	737	0.402	ng	# 81
22) Hexachlorobenzene	16.276	284	725	0.378	ng	97
23) Atrazine	16.450	200	664	0.464	ng	# 88
24) Pentachlorophenol	16.624	266	782	0.736	ng	96
25) Phenanthrene	17.009	178	2629	0.423	ng	99
26) Anthracene	17.108	178	2415	0.414	ng	99
28) Fluoranthene	19.040	202	3702	0.429	ng	# 95
30) Pyrene	19.402	202	3766	0.435	ng	100
32) Benzo(a)anthracene	21.153	228	3454	0.472	ng	100
33) Chrysene	21.206	228	3940	0.422	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1610	0.536	ng	99
36) Indeno(1,2,3-cd)pyrene	25.544	276	4505	0.448	ng	# 95
37) Benzo(b)fluoranthene	22.702	252	3579	0.429	ng	98
38) Benzo(k)fluoranthene	22.746	252	4007	0.437	ng	98
39) Benzo(a)pyrene	23.260	252	3480	0.450	ng	# 93
40) Dibenzo(a,h)anthracene	25.558	278	3505	0.434	ng	89
41) Benzo(g,h,i)perylene	26.204	276	3809	0.413	ng	96

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

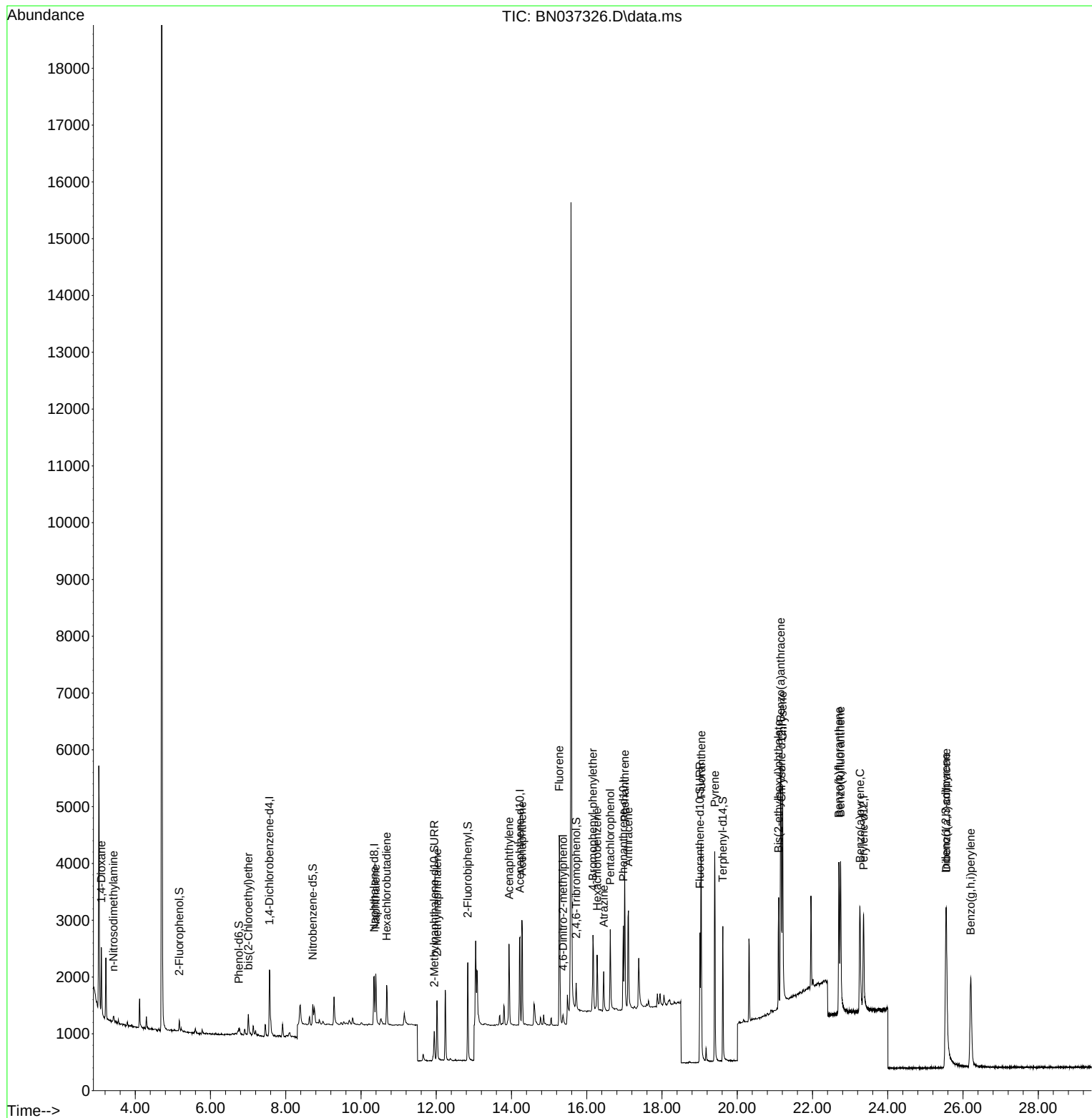
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037326.D
Acq On : 18 Jun 2025 23:15
Operator : RC/JU
Sample : Q2329-11MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

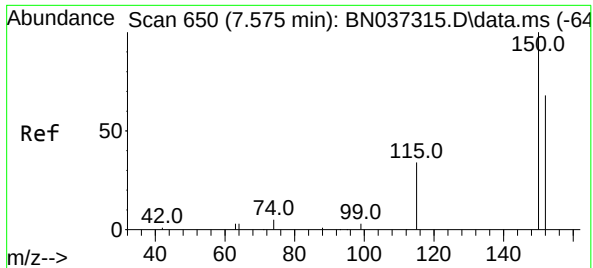
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

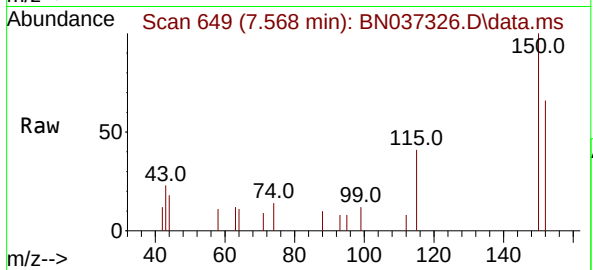
Quant Time: Jun 19 06:43:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

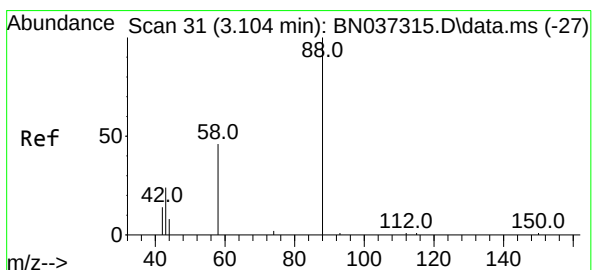
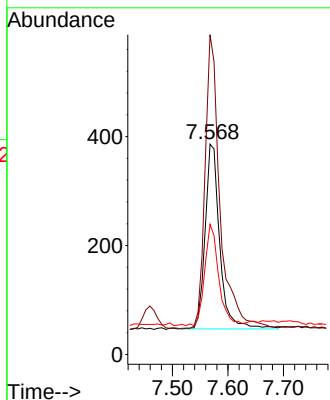
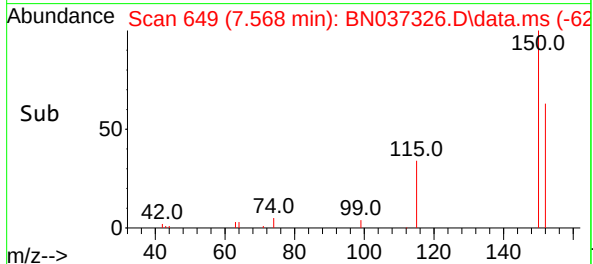
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion: 152 Resp: 620
Ion Ratio Lower Upper
152 100
150 152.1 112.7 169.1
115 61.9 45.9 68.9

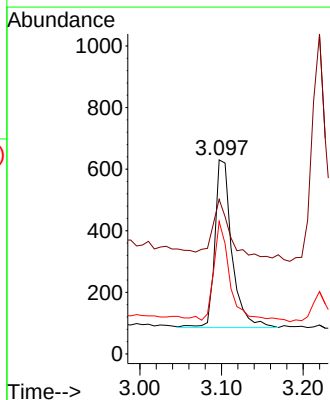
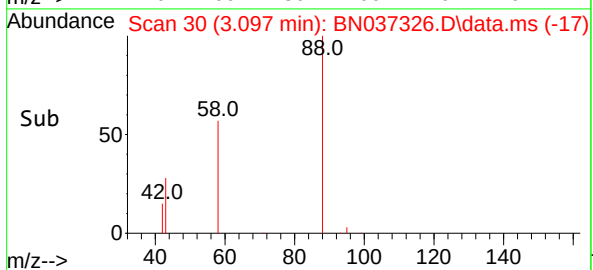
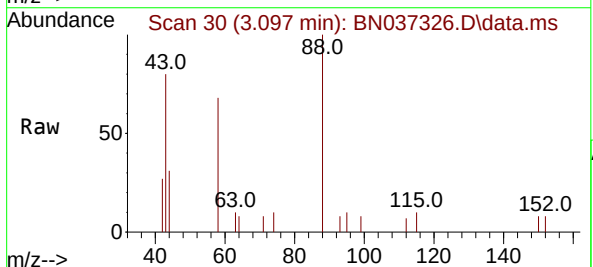
Manual Integrations
APPROVED

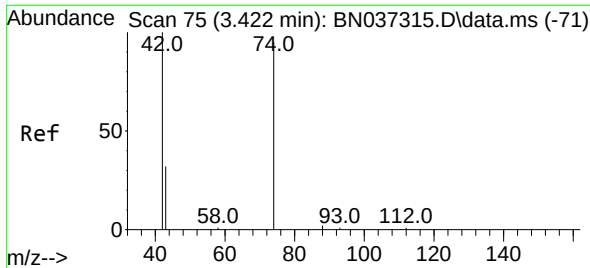
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#2
1,4-Dioxane
Concen: 1.424 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion: 88 Resp: 788
Ion Ratio Lower Upper
88 100
43 35.0 21.0 31.6#
58 53.2 38.0 57.0





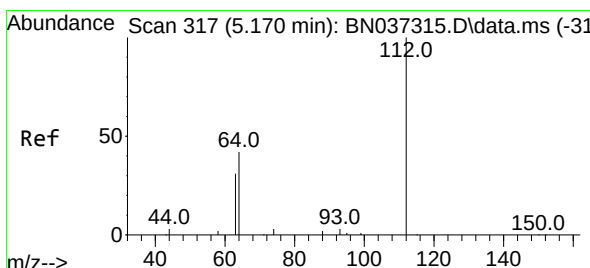
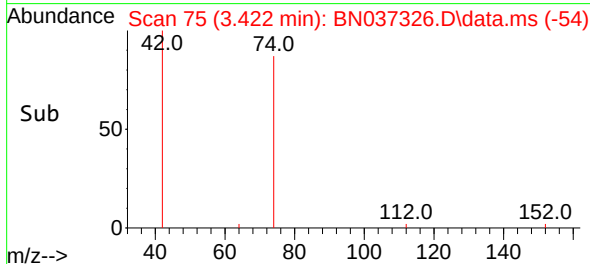
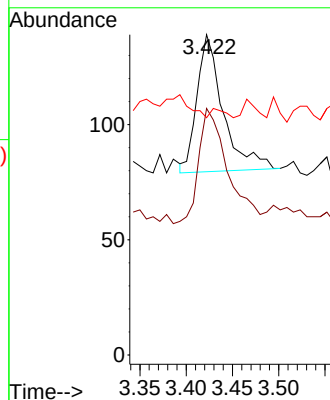
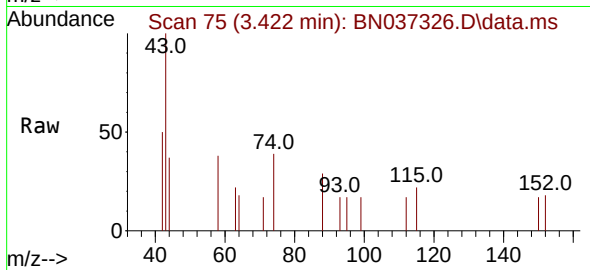
#3
n-Nitrosodimethylamine
Concen: 0.182 ng
RT: 3.422 min Scan# 75
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 42 Resp: 111
Ion Ratio Lower Upper
42 100
74 93.2 84.3 126.5
44 3.4 5.0 7.4

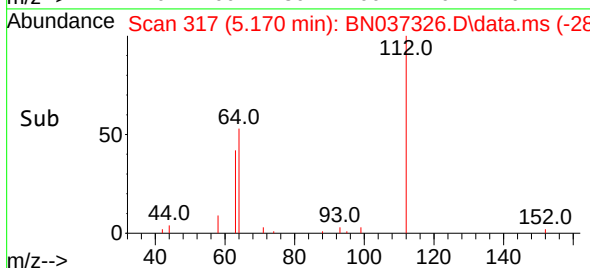
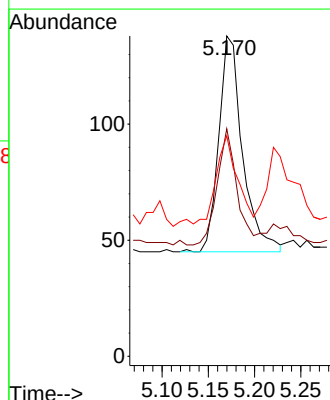
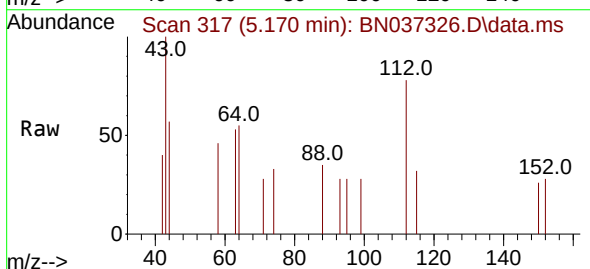
Manual Integrations
APPROVED

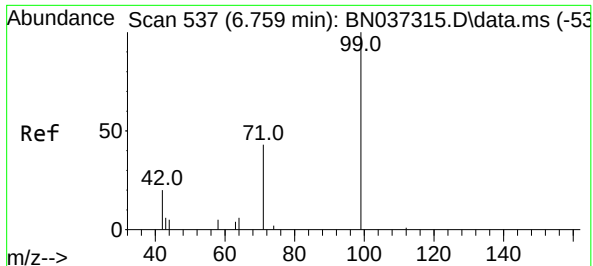
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#4
2-Fluorophenol
Concen: 0.147 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:112 Resp: 166
Ion Ratio Lower Upper
112 100
64 48.2 38.7 58.1
63 37.3 26.4 39.6





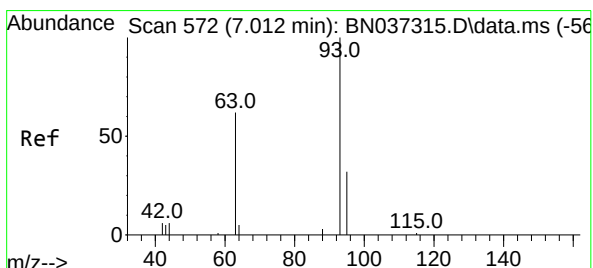
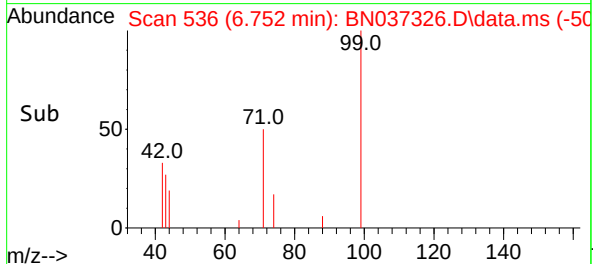
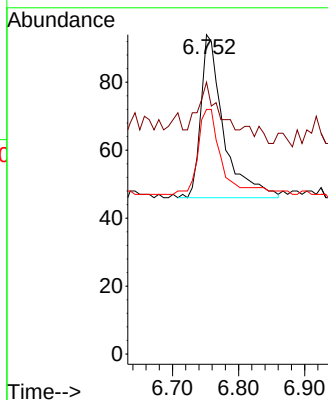
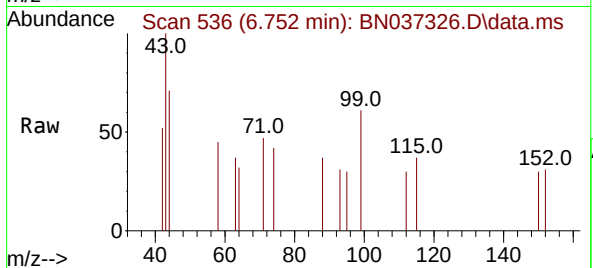
#5
Phenol-d6
Concen: 0.104 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion: 99 Resp: 111
Ion Ratio Lower Upper
99 100
42 23.5 19.8 29.8
71 53.9 42.6 64.0

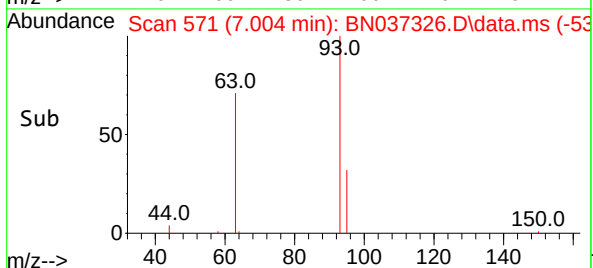
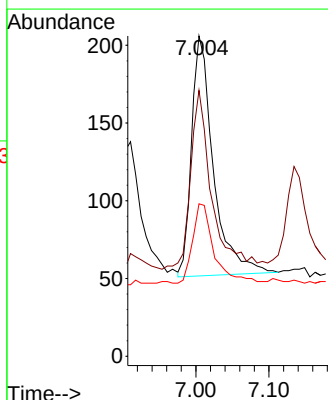
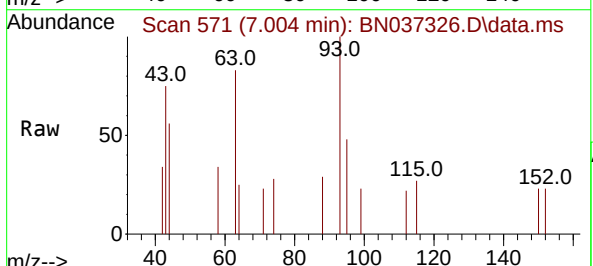
Manual Integrations
APPROVED

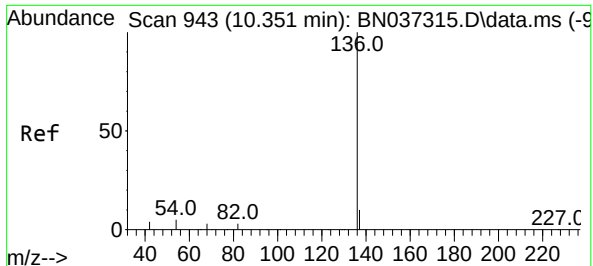
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

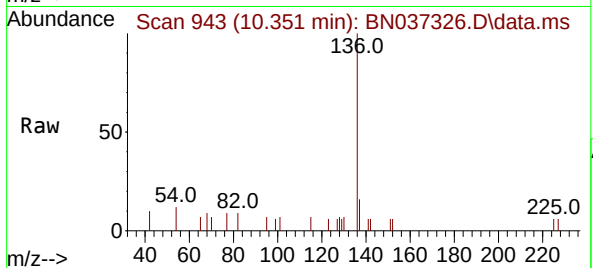
Tgt Ion: 93 Resp: 320
Ion Ratio Lower Upper
93 100
63 72.8 53.2 79.8
95 32.2 27.3 40.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

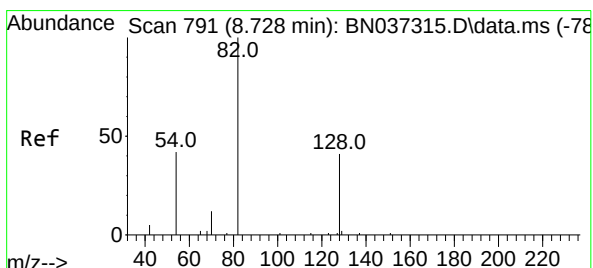
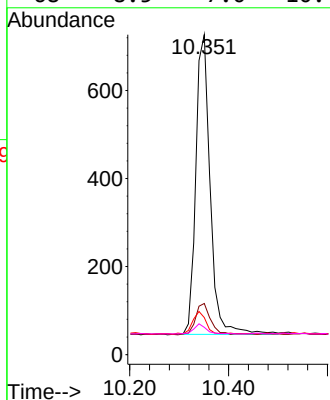
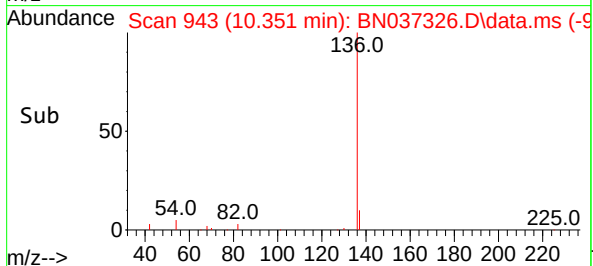
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion	Ratio	Lower	Upper
136	100		
137	16.0	12.2	18.2
54	11.6	8.8	13.2
68	8.5	7.0	10.4

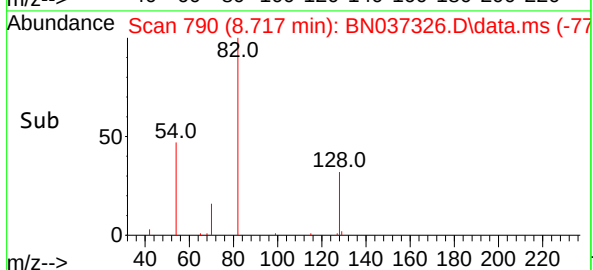
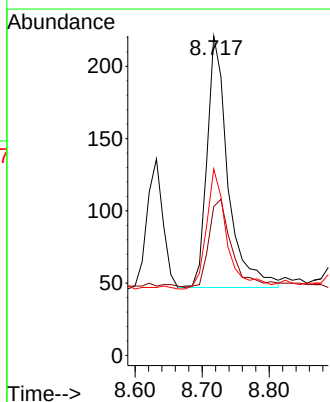
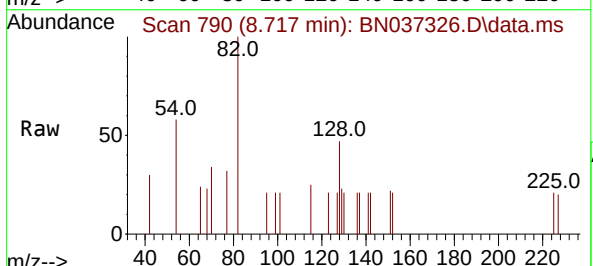
Manual Integrations
APPROVED

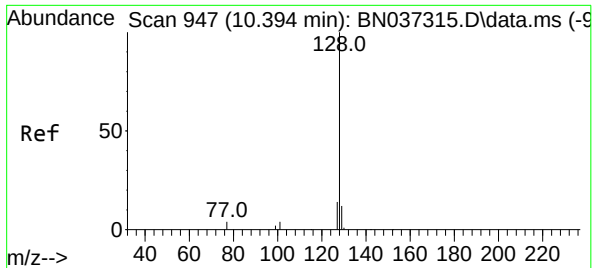
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#8
Nitrobenzene-d5
Concen: 0.331 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion	Ratio	Lower	Upper
82	100		
128	46.6	42.5	63.7
54	58.4	43.2	64.8





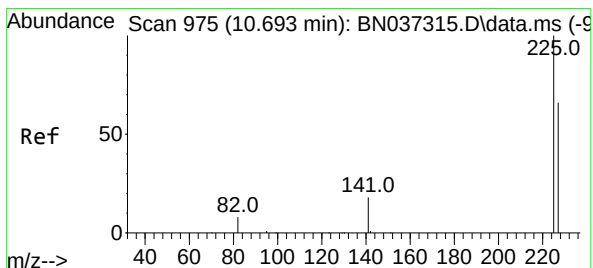
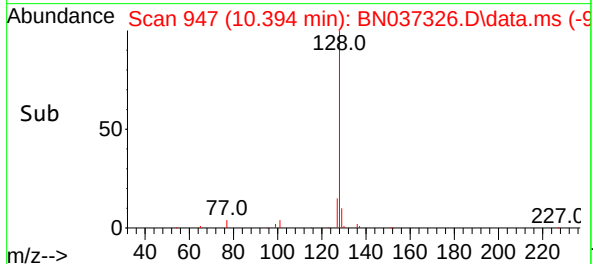
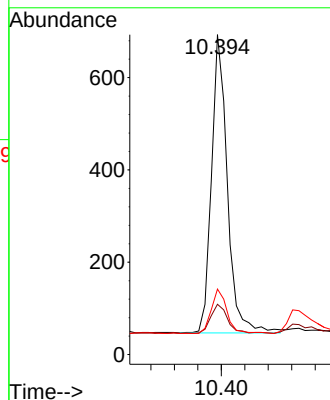
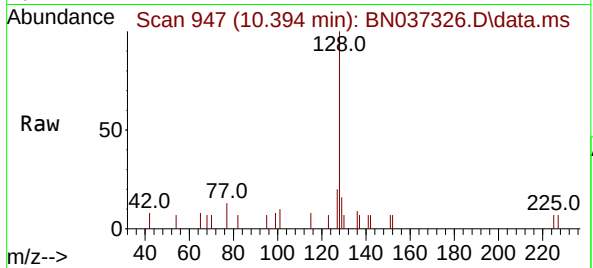
#9
Naphthalene
Concen: 0.341 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:128 Resp: 1210
Ion Ratio Lower Upper
128 100
129 15.7 14.0 21.0
127 20.5 15.8 23.8

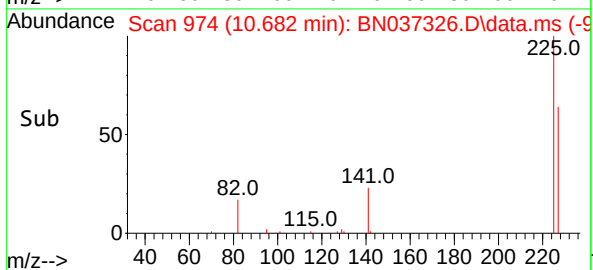
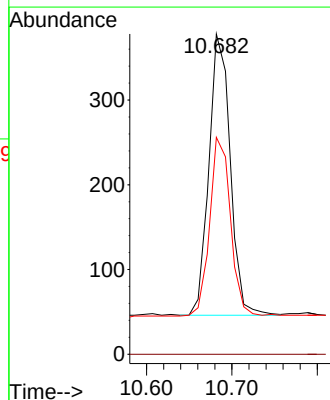
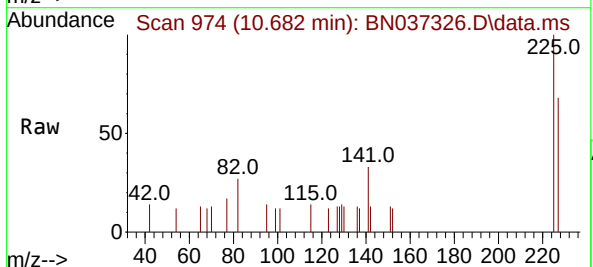
Manual Integrations
APPROVED

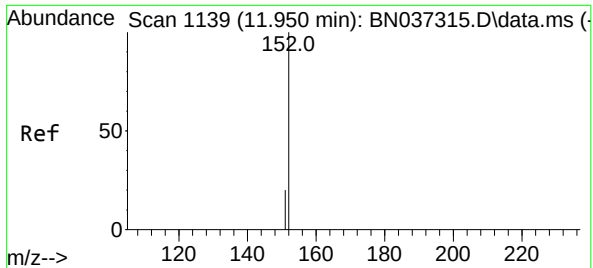
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

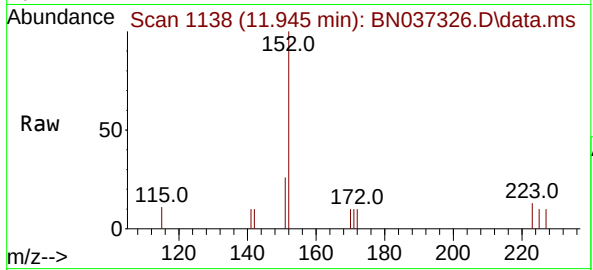
Tgt Ion:225 Resp: 575
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.8 50.3 75.5





#11
2-Methylnaphthalene-d10
Concen: 0.392 ng m
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

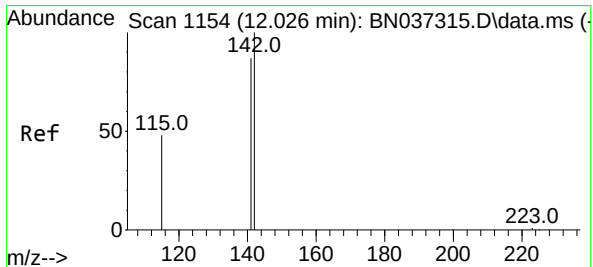
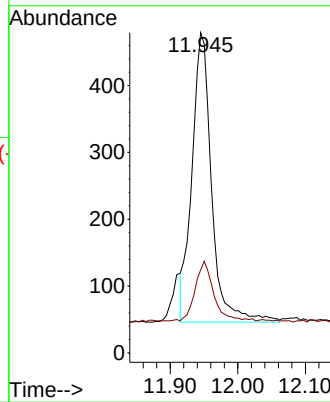
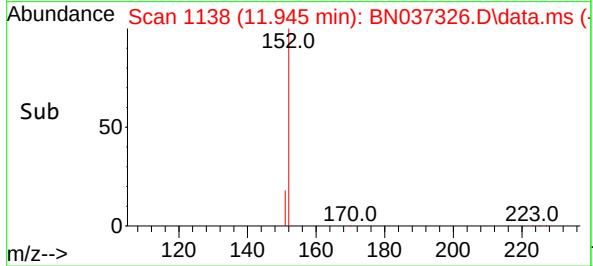
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:152 Resp: 870
Ion Ratio Lower Upper
152 100
151 20.9 17.4 26.0

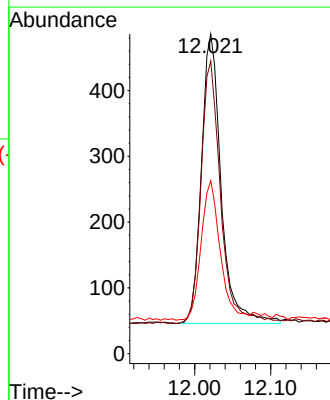
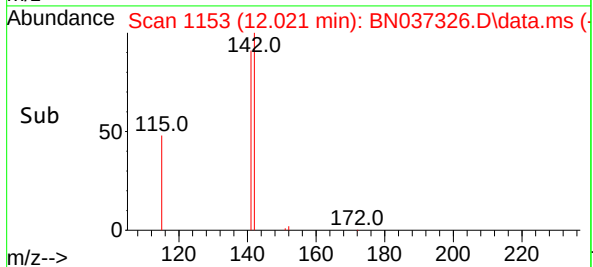
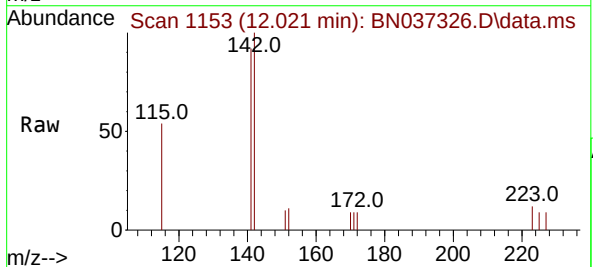
Manual Integrations
APPROVED

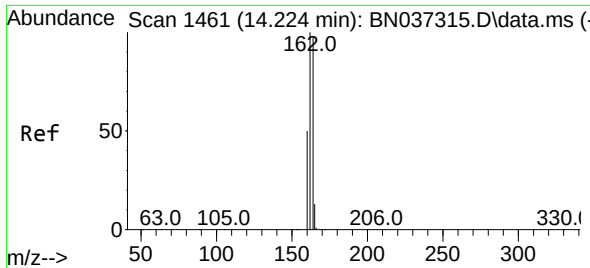
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

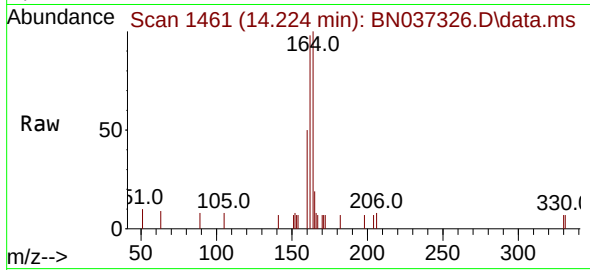
Tgt Ion:142 Resp: 794
Ion Ratio Lower Upper
142 100
141 91.6 70.2 105.2
115 54.1 43.0 64.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

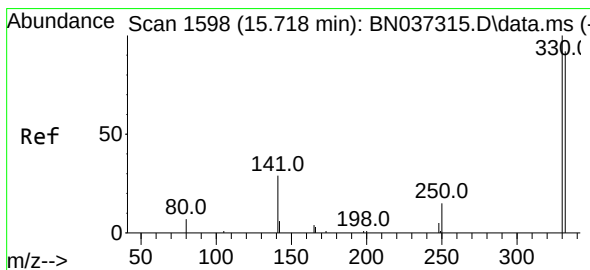
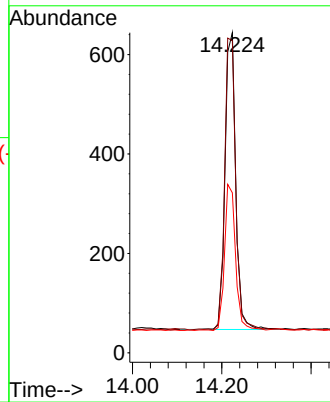
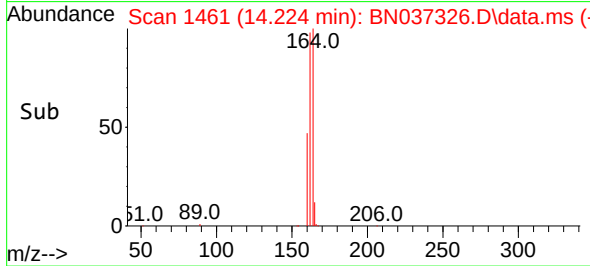
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:164 Resp: 99
Ion Ratio Lower Upper
164 100
162 97.5 81.5 122.3
160 50.0 43.0 64.4

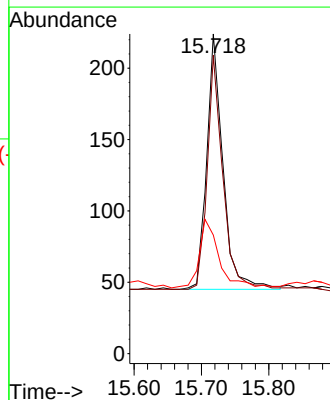
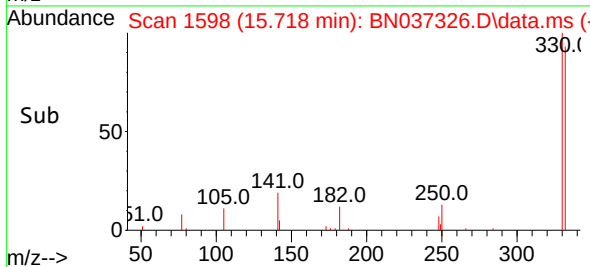
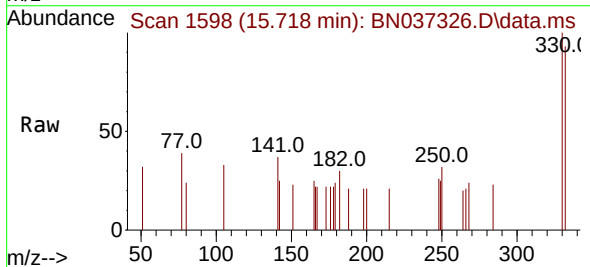
Manual Integrations
APPROVED

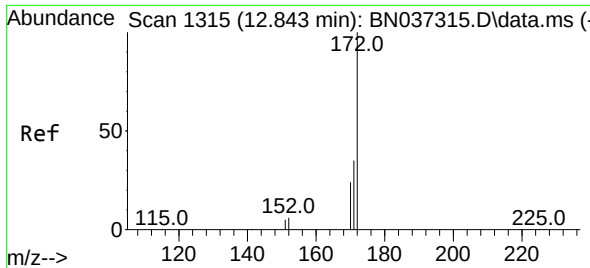
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#14
2,4,6-Tribromophenol
Concen: 0.409 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

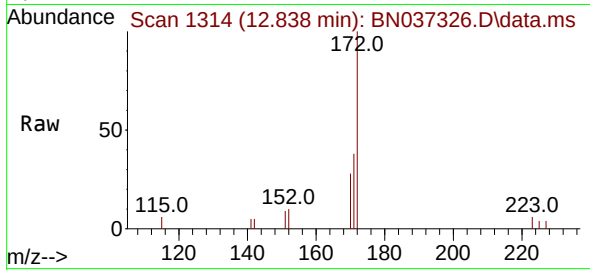
Tgt Ion:330 Resp: 301
Ion Ratio Lower Upper
330 100
332 89.0 78.4 117.6
141 32.6 24.4 36.6





#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.838 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

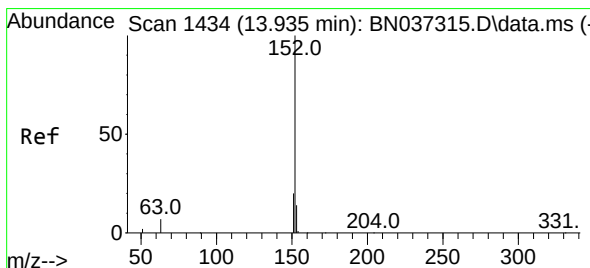
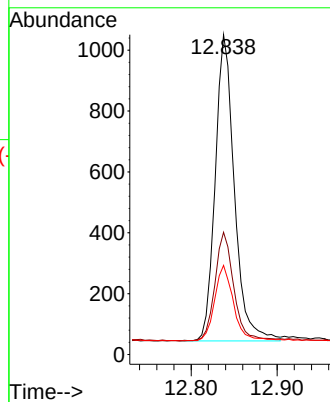
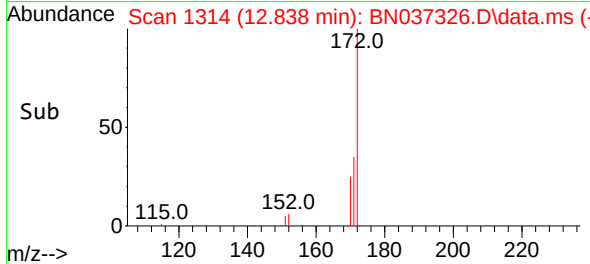
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:172 Resp: 1560
Ion Ratio Lower Upper
172 100
171 38.2 30.8 46.2
170 27.9 21.9 32.9

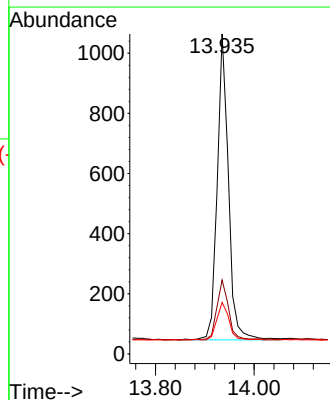
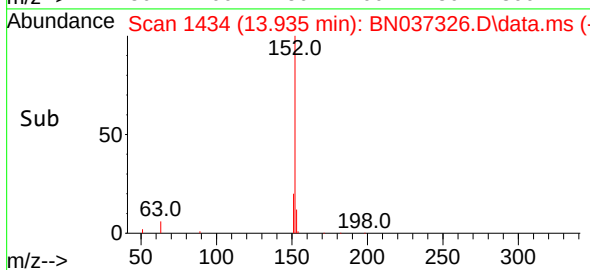
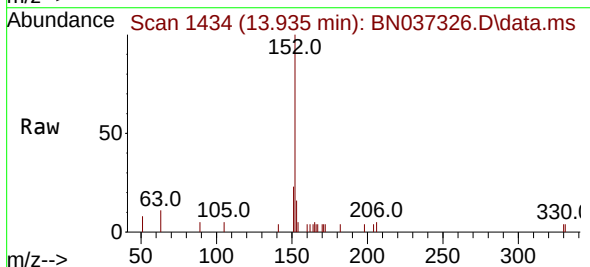
Manual Integrations
APPROVED

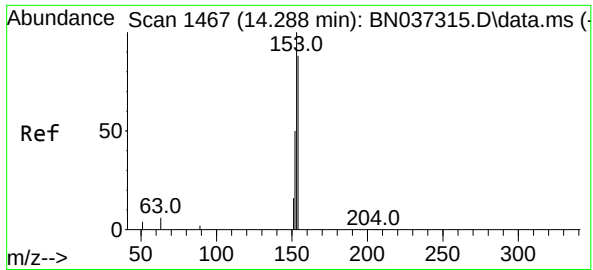
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:152 Resp: 1600
Ion Ratio Lower Upper
152 100
151 20.8 16.6 24.8
153 13.6 10.2 15.2





#17

Acenaphthene

Concen: 0.343 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.011 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MS

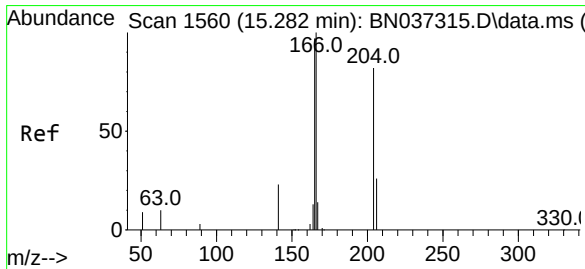
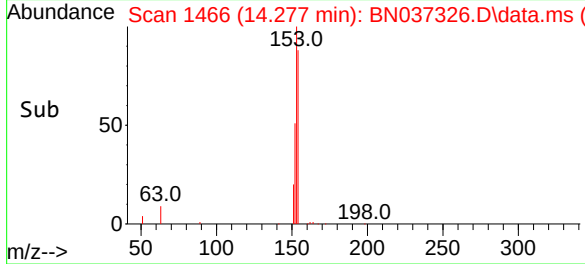
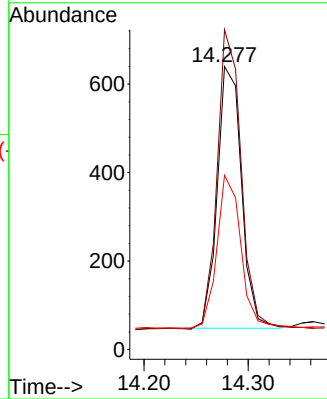
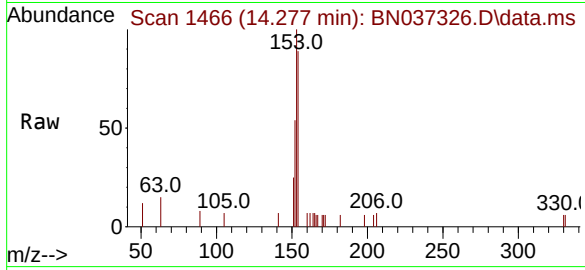
Tgt Ion:	154	Resp:	950
Ion Ratio	Lower	Upper	
154	100		
153	114.4	93.1	139.7
152	58.8	48.6	73.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#18

Fluorene

Concen: 0.359 ng

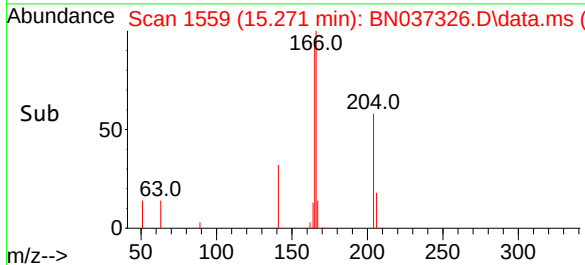
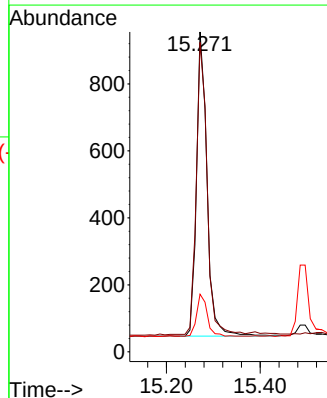
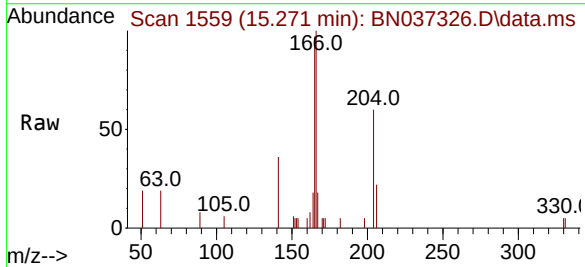
RT: 15.271 min Scan# 1559

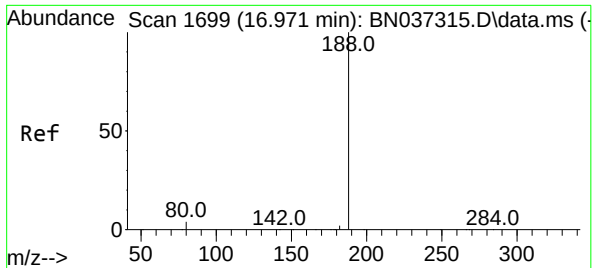
Delta R.T. -0.011 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Tgt Ion:	166	Resp:	1416
Ion Ratio	Lower	Upper	
166	100		
165	97.4	79.5	119.3
167	13.7	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: BN037326.D

Acq: 18 Jun 2025 23:15

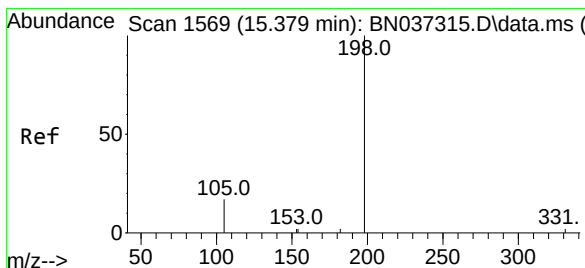
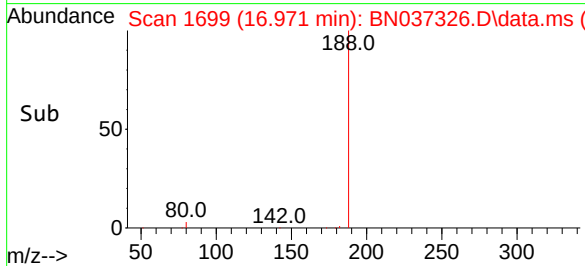
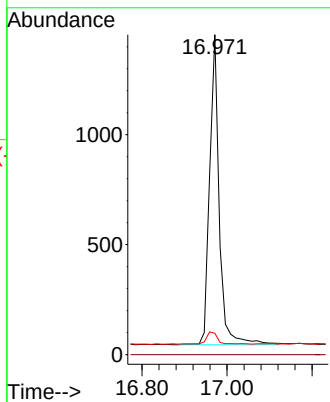
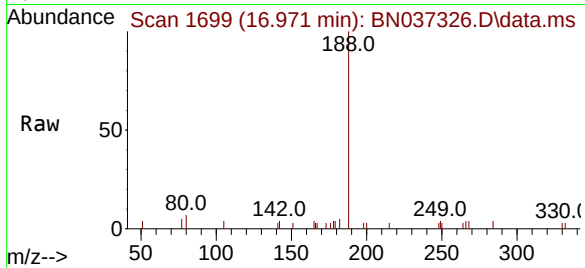
Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MS

Tgt Ion:	188	Resp:	220
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	6.7	6.2	9.2

Manual Integrations
APPROVEDReviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

#20

4,6-Dinitro-2-methylphenol

Concen: 0.425 ng

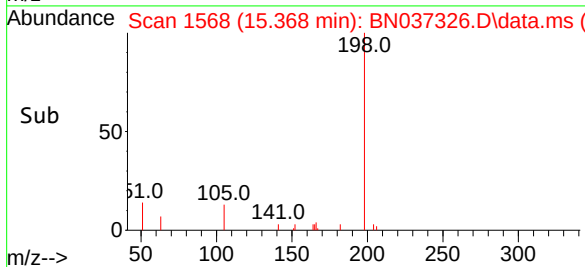
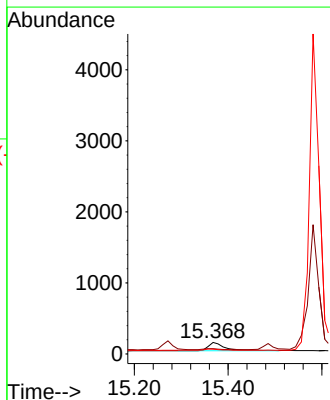
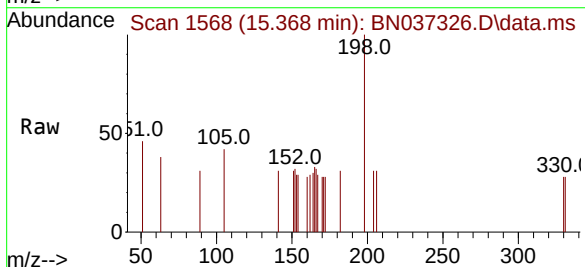
RT: 15.368 min Scan# 1568

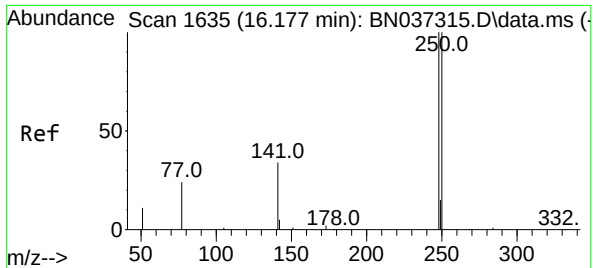
Delta R.T. -0.011 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

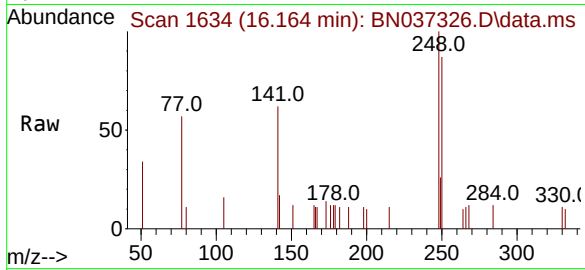
Tgt Ion:	198	Resp:	288
Ion Ratio	Lower	Upper	
198	100		
51	45.7	51.4	77.0#
105	42.0	45.5	68.3#





#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.013 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

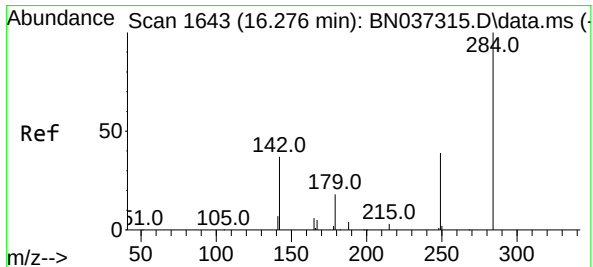
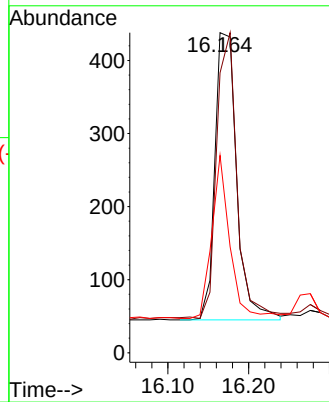
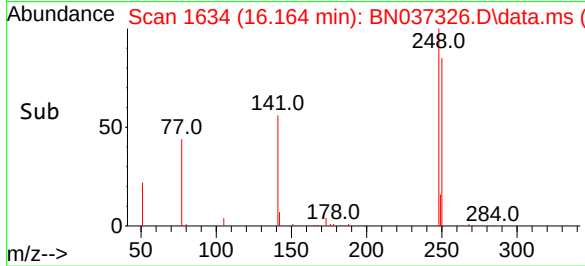
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:248 Resp: 73
Ion Ratio Lower Upper
248 100
250 87.4 80.4 120.6
141 61.6 33.3 49.9

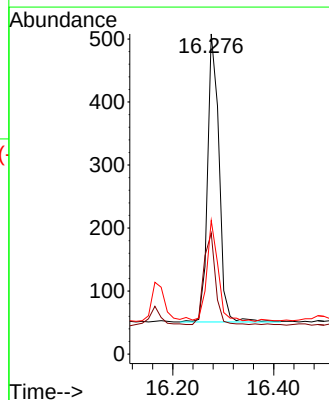
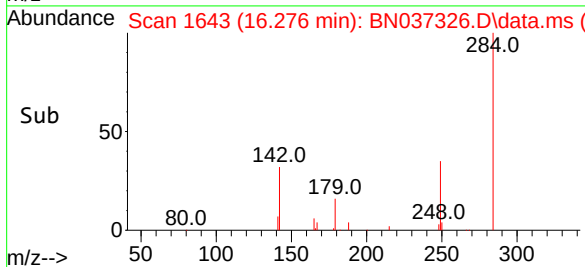
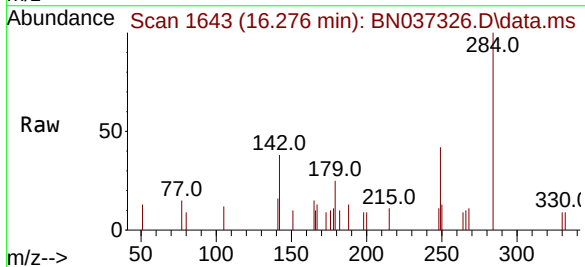
Manual Integrations
APPROVED

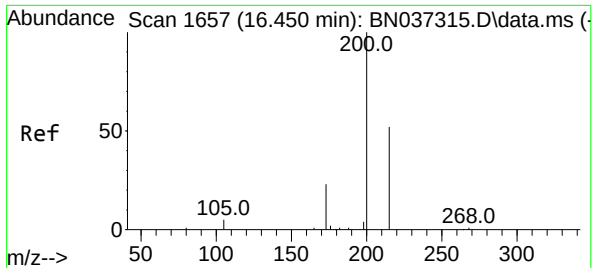
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

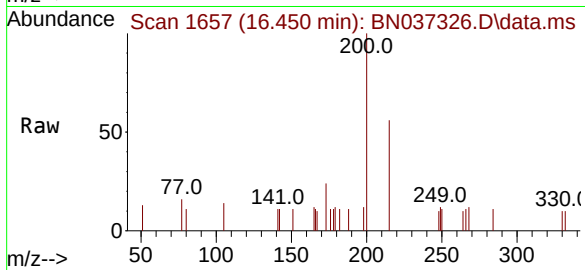
Tgt Ion:284 Resp: 725
Ion Ratio Lower Upper
284 100
142 32.7 27.0 40.6
249 34.2 28.8 43.2





#23
Atrazine
Concen: 0.464 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

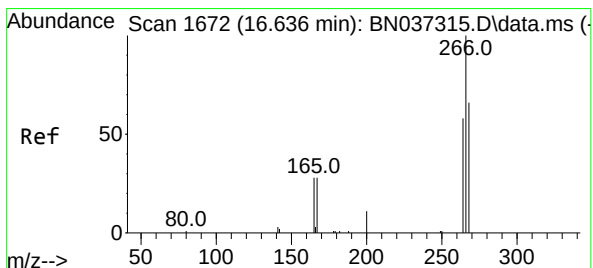
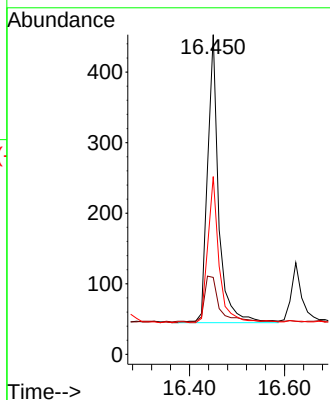
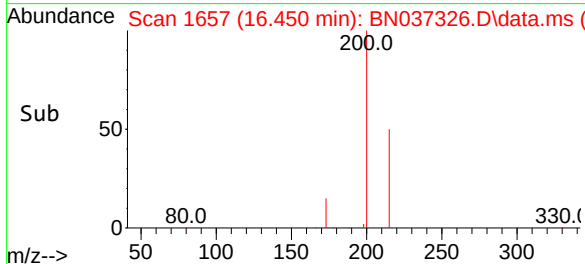
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:200 Resp: 664
Ion Ratio Lower Upper
200 100
173 24.1 29.2 43.8
215 55.6 48.8 73.2

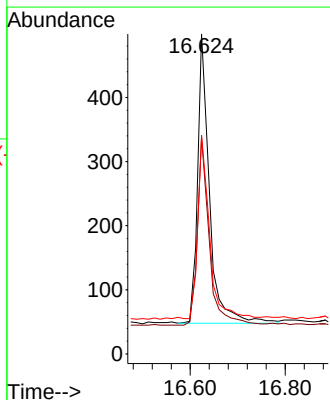
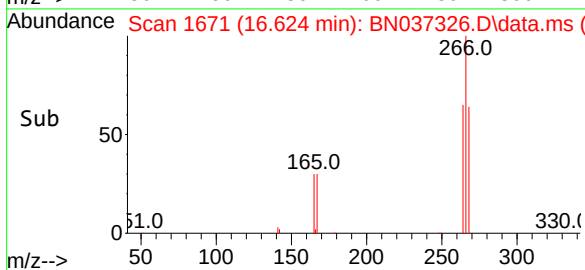
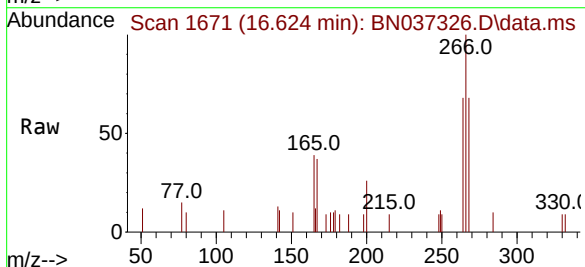
Manual Integrations
APPROVED

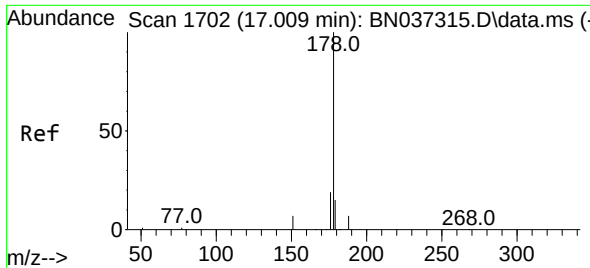
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#24
Pentachlorophenol
Concen: 0.736 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.013 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:266 Resp: 782
Ion Ratio Lower Upper
266 100
264 64.8 50.3 75.5
268 64.6 55.3 82.9





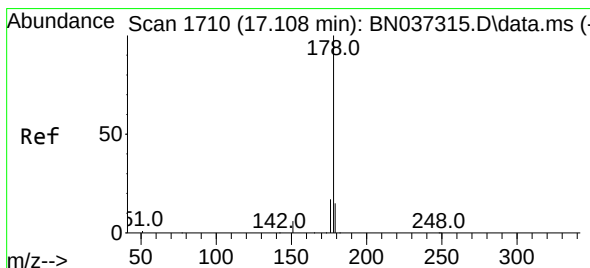
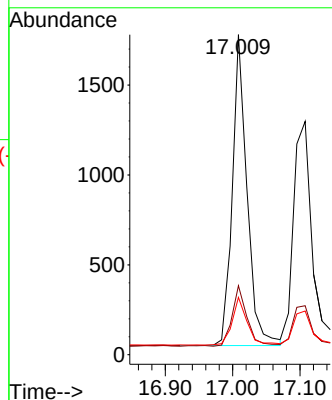
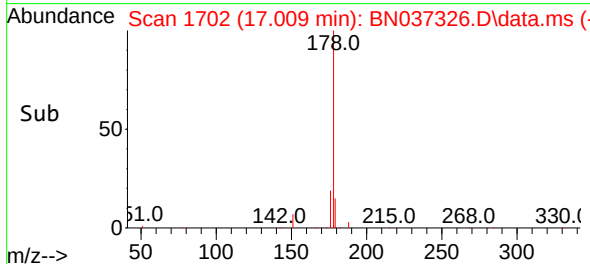
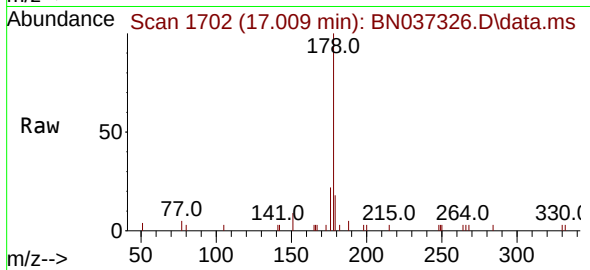
#25
Phenanthrene
Concen: 0.423 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

Tgt Ion:178 Resp: 2629
Ion Ratio Lower Upper
178 100
176 19.9 15.2 22.8
179 15.7 12.9 19.3

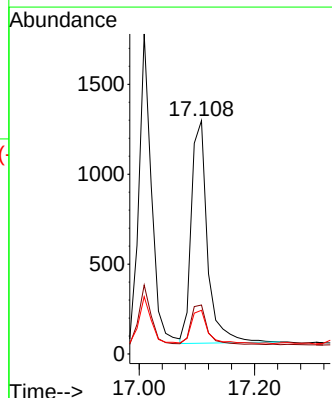
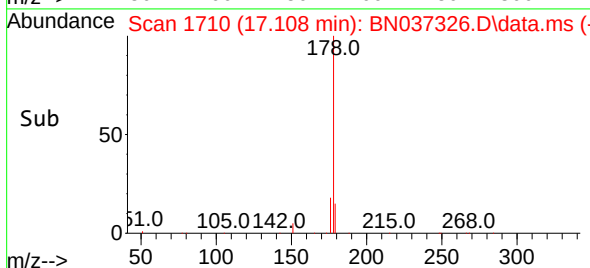
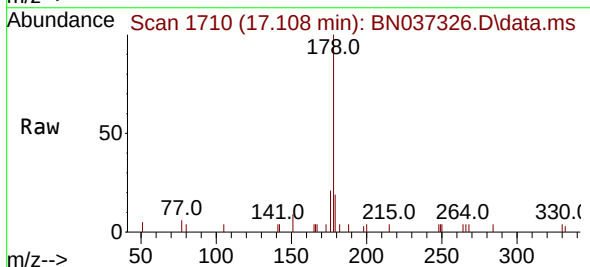
Manual Integrations
APPROVED

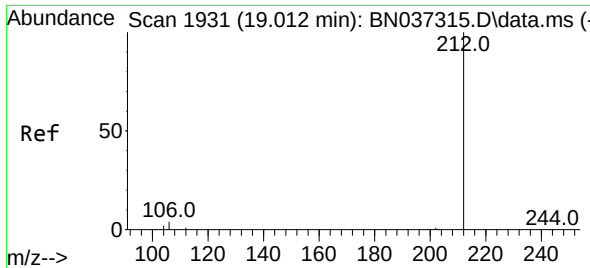
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#26
Anthracene
Concen: 0.414 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

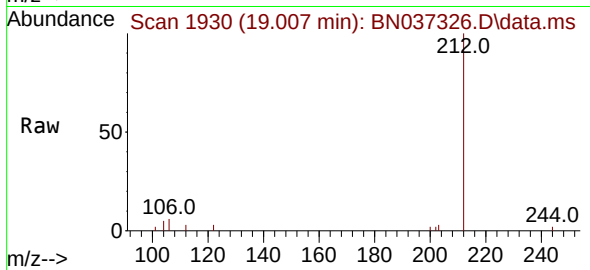
Tgt Ion:178 Resp: 2415
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.9 13.0 19.6





#27
Fluoranthene-d10
Concen: 0.434 ng
RT: 19.007 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

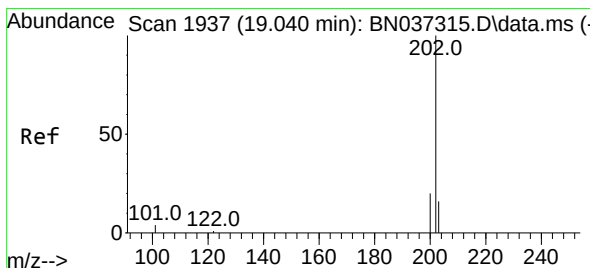
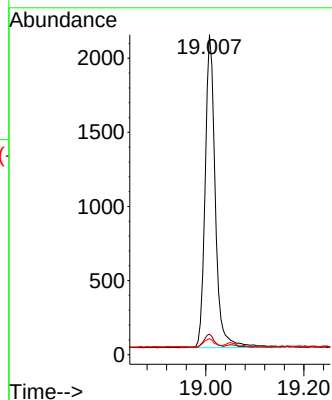
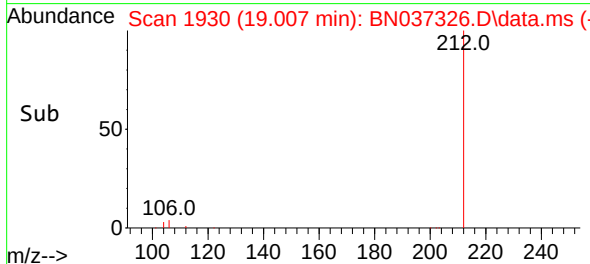
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:212 Resp: 3039
Ion Ratio Lower Upper
212 100
106 4.3 3.0 4.4
104 2.5 2.0 3.0

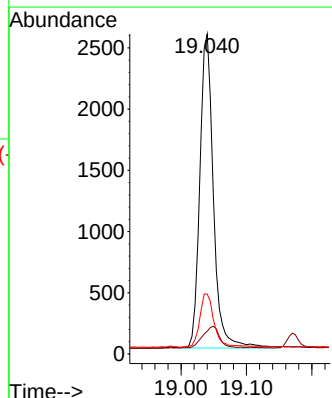
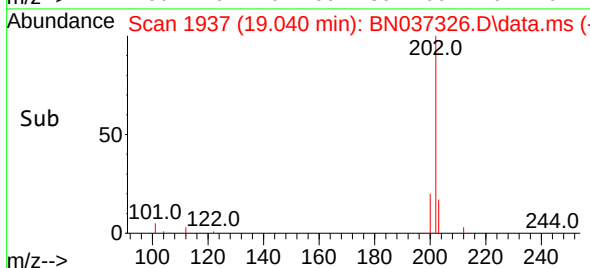
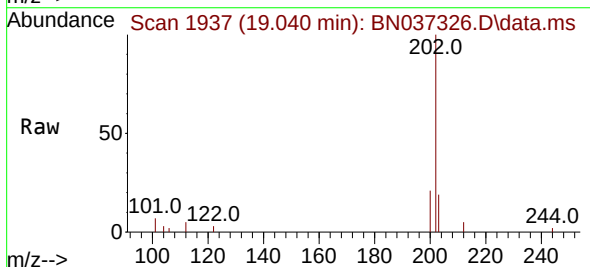
Manual Integrations
APPROVED

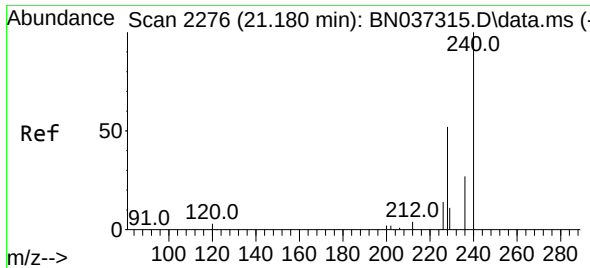
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#28
Fluoranthene
Concen: 0.429 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

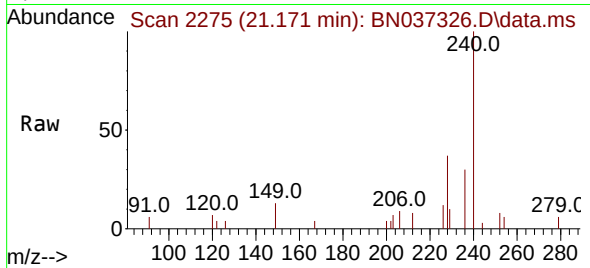
Tgt Ion:202 Resp: 3702
Ion Ratio Lower Upper
202 100
101 8.6 3.0 4.6#
203 18.3 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2117
Delta R.T. -0.009 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

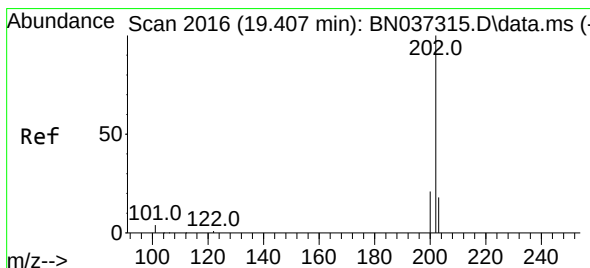
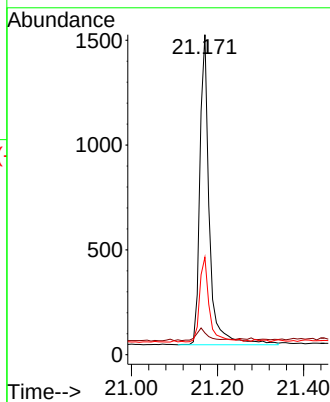
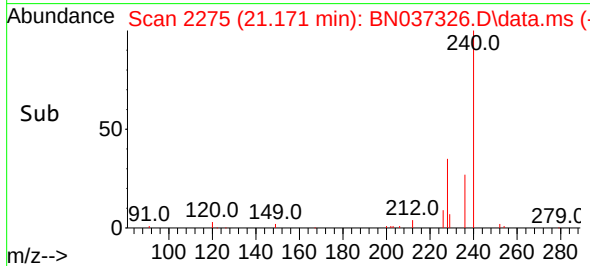
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:240 Resp: 2274
Ion Ratio Lower Upper
240 100
120 6.8 7.5 11.3
236 30.5 24.9 37.3

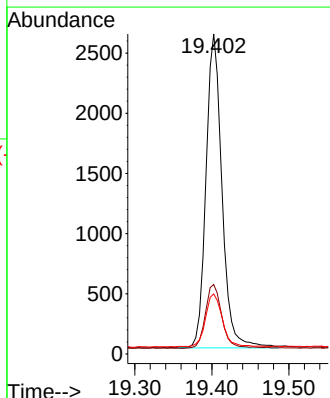
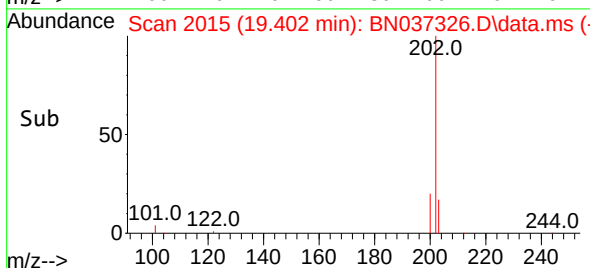
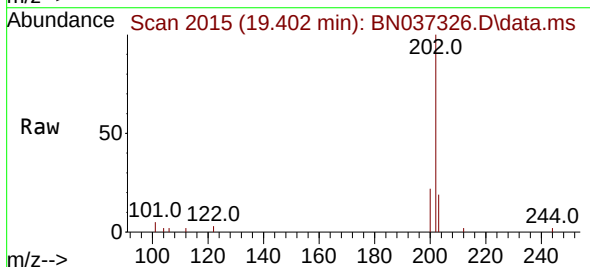
Manual Integrations
APPROVED

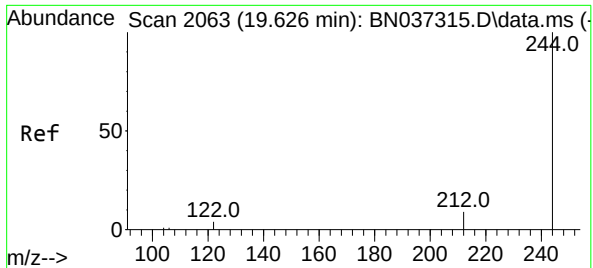
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#30
Pyrene
Concen: 0.435 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

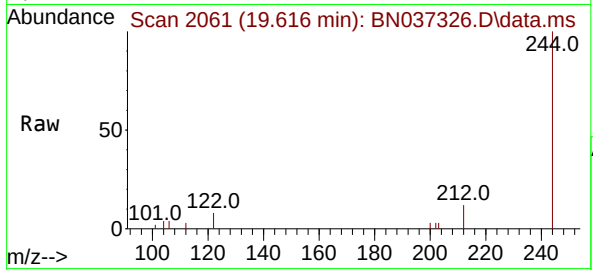
Tgt Ion:202 Resp: 3766
Ion Ratio Lower Upper
202 100
200 21.0 16.8 25.2
203 17.9 14.5 21.7





#31
Terphenyl-d14
Concen: 0.536 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

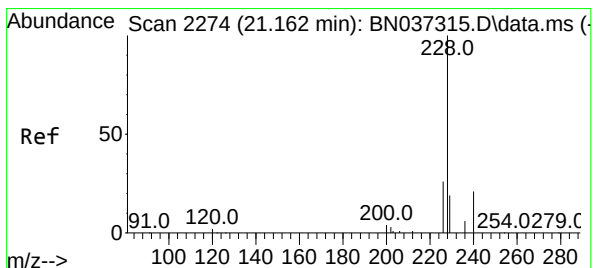
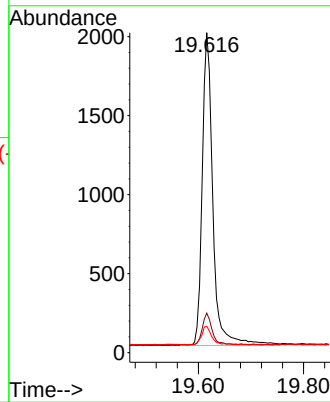
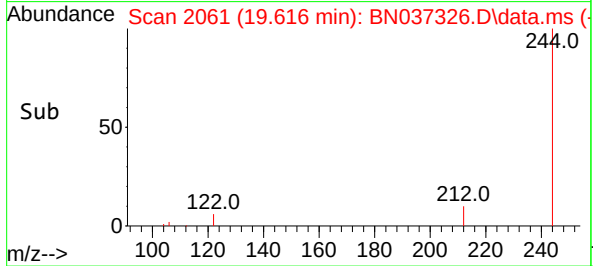
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:244 Resp: 279
Ion Ratio Lower Upper
244 100
212 12.3 11.1 16.7
122 8.2 7.2 10.8

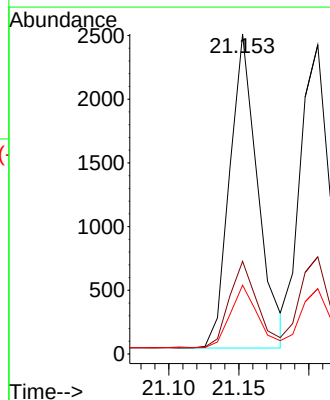
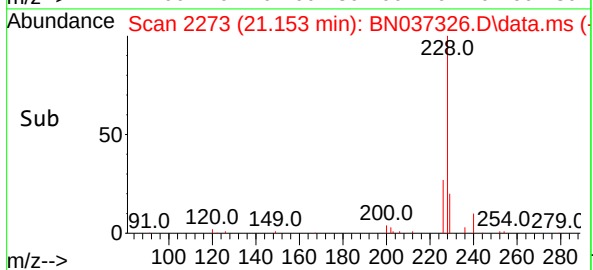
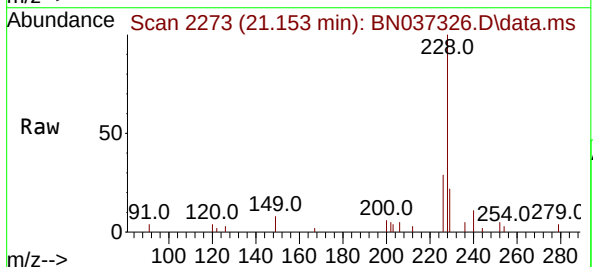
Manual Integrations
APPROVED

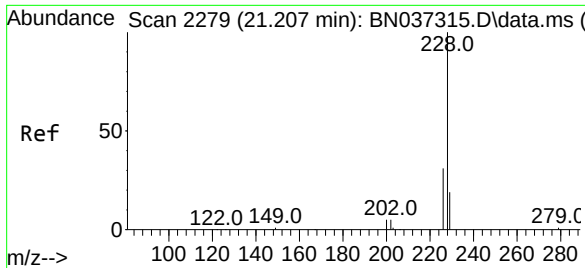
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#32
Benzo(a)anthracene
Concen: 0.472 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

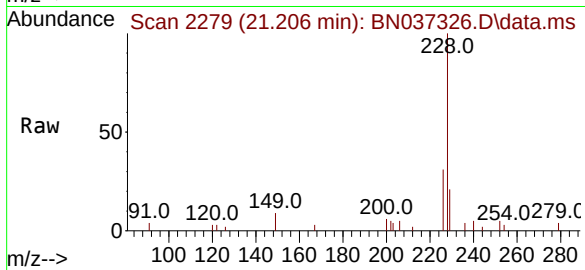
Tgt Ion:228 Resp: 3454
Ion Ratio Lower Upper
228 100
226 29.0 23.0 34.4
229 21.5 17.4 26.0





#33
Chrysene
Concen: 0.422 ng
RT: 21.206 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

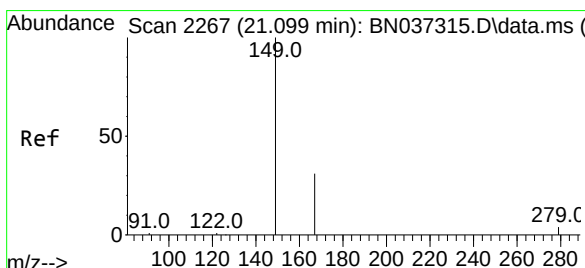
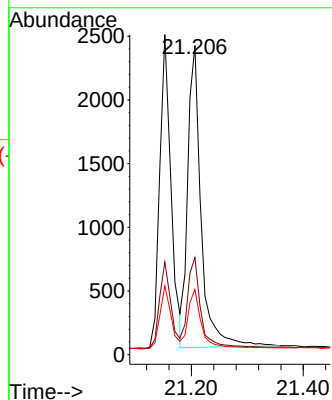
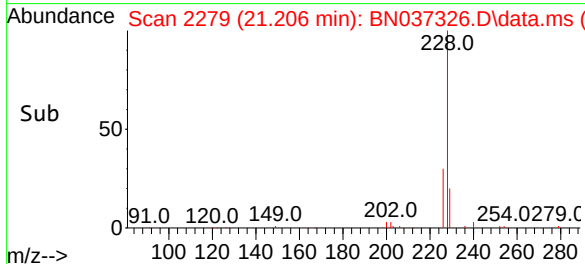
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:228 Resp: 3940
Ion Ratio Lower Upper
228 100
226 31.4 25.4 38.2
229 21.1 17.3 25.9

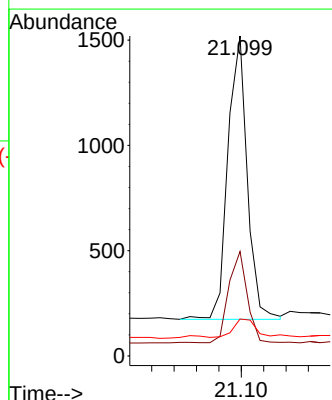
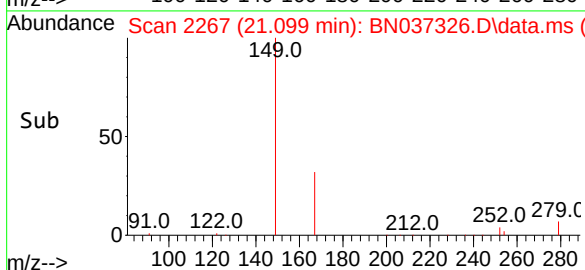
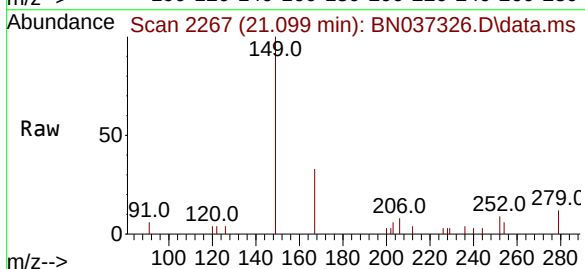
Manual Integrations
APPROVED

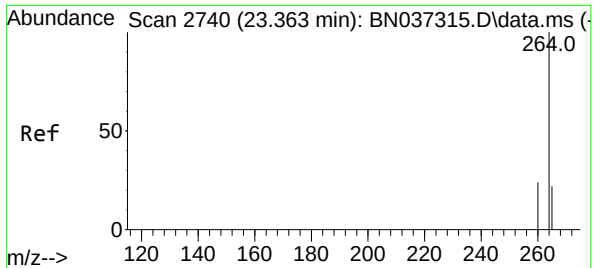
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.536 ng
RT: 21.099 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

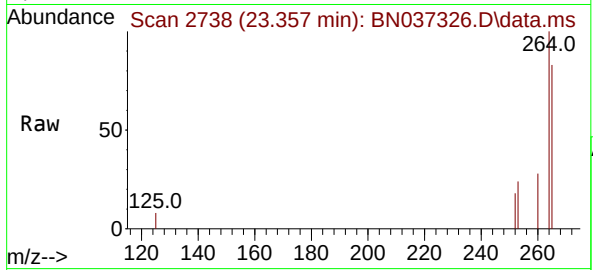
Tgt Ion:149 Resp: 1610
Ion Ratio Lower Upper
149 100
167 31.2 24.6 37.0
279 8.1 6.5 9.7





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

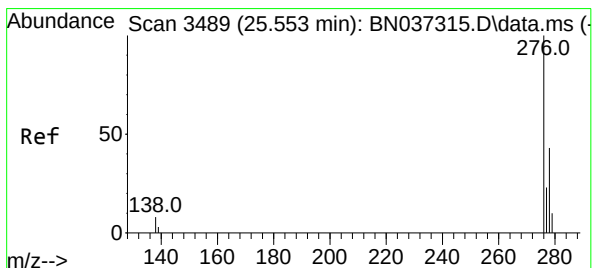
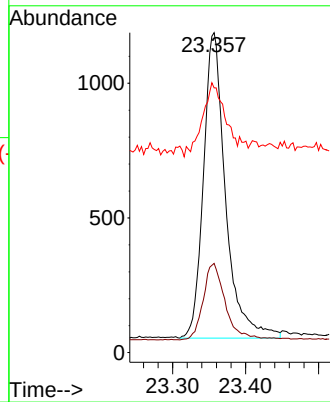
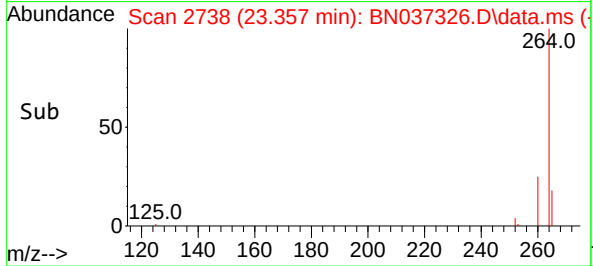
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS



Tgt Ion:264 Resp: 239
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 82.7 71.4 107.0

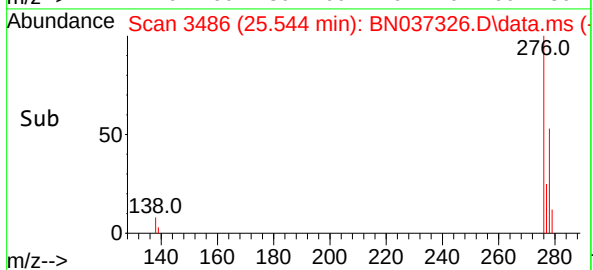
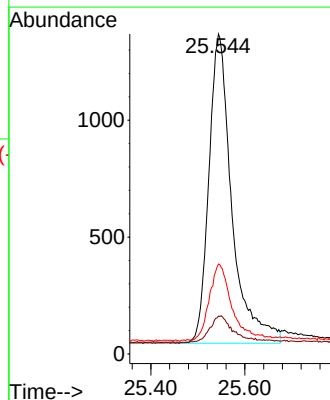
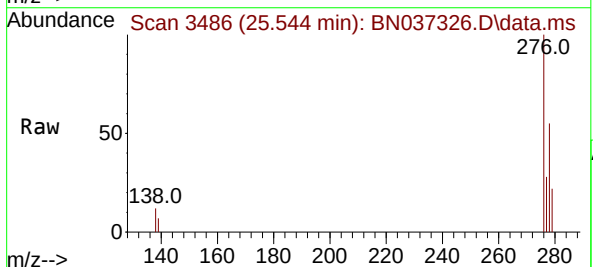
Manual Integrations
APPROVED

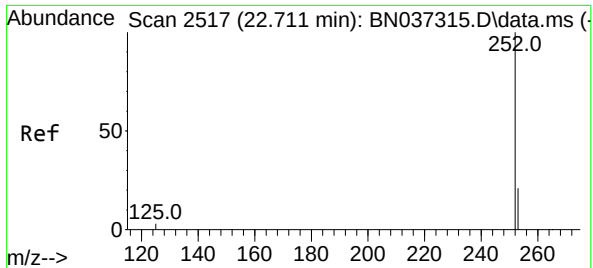
Reviewed By :Rahul Chavli 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.448 ng
RT: 25.544 min Scan# 3486
Delta R.T. -0.009 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:276 Resp: 4505
Ion Ratio Lower Upper
276 100
138 8.1 2.2 3.2#
277 23.2 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.429 ng

RT: 22.702 min Scan# 2514

Delta R.T. -0.009 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MS

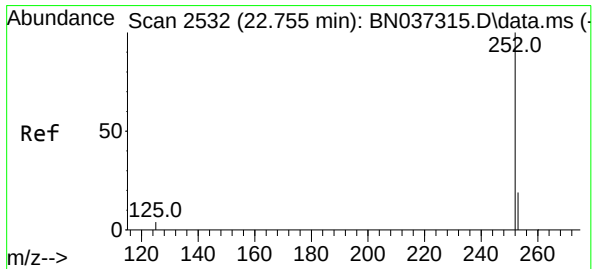
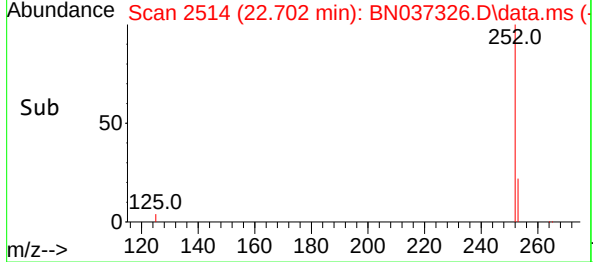
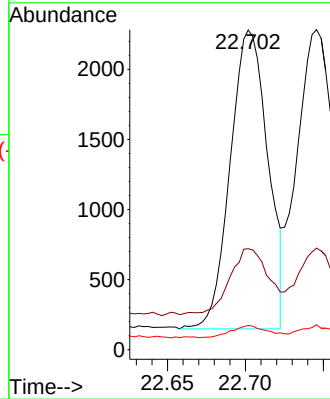
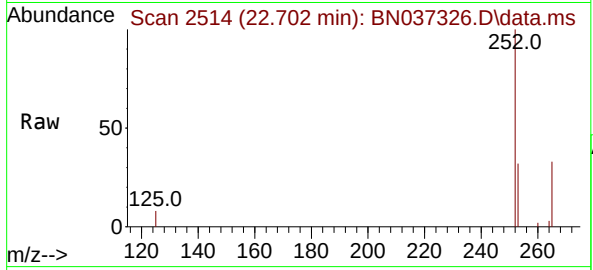
Tgt Ion:252	Resp:	3579
Ion Ratio	Lower	Upper
252	100	
253	31.6	26.6 40.0
125	7.6	6.1 9.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#38

Benzo(k)fluoranthene

Concen: 0.437 ng

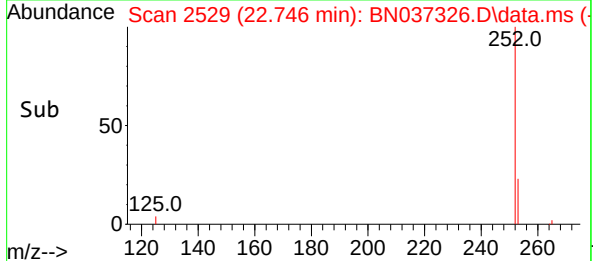
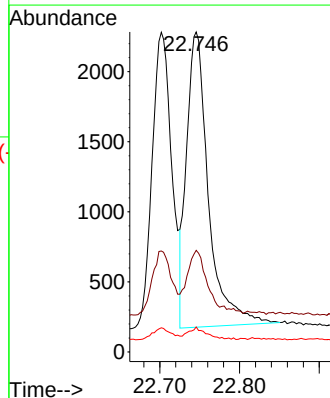
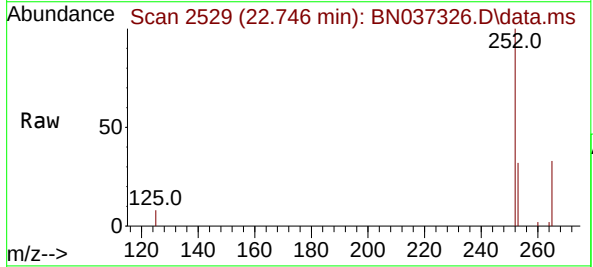
RT: 22.746 min Scan# 2529

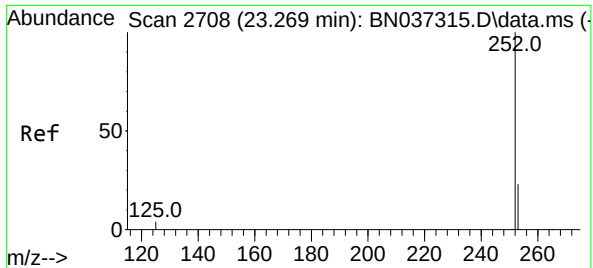
Delta R.T. -0.009 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Tgt Ion:252	Resp:	4007
Ion Ratio	Lower	Upper
252	100	
253	31.8	26.7 40.1
125	7.8	6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.450 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Instrument :

BNA_N

ClientSampleId :

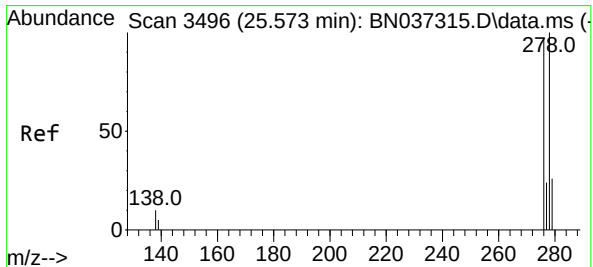
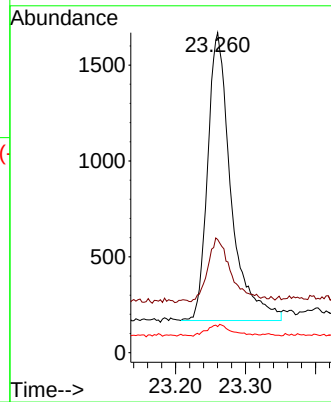
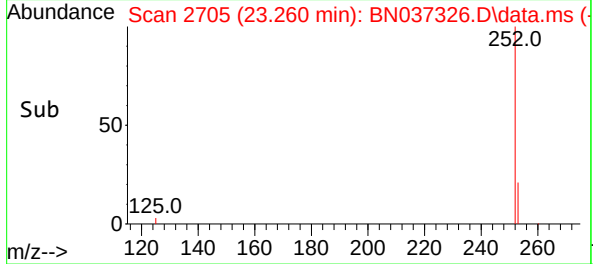
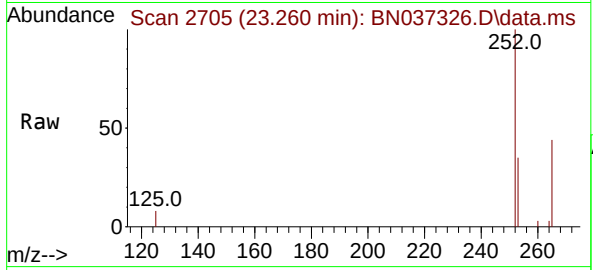
TT172S1-20250613MS

Tgt Ion:	252	Resp:	3480
Ion Ratio	Lower	Upper	
252	100		
253	35.4	31.6	47.4
125	8.1	8.4	12.6

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.434 ng

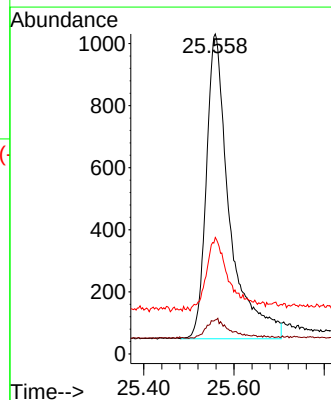
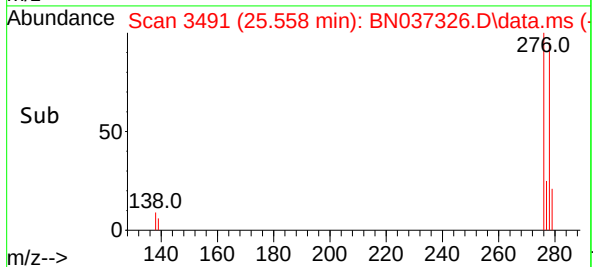
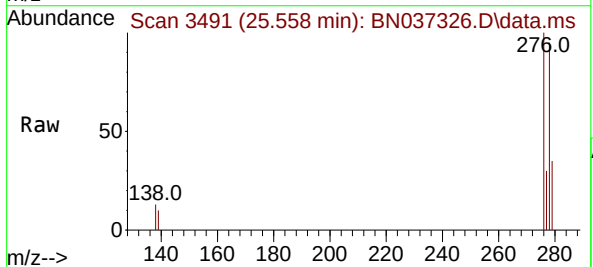
RT: 25.558 min Scan# 3491

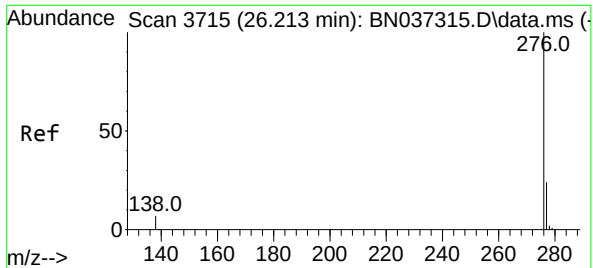
Delta R.T. -0.015 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Tgt Ion:	278	Resp:	3505
Ion Ratio	Lower	Upper	
278	100		
139	10.7	10.2	15.4
279	36.4	35.6	53.4





#41

Benzo(g,h,i)perylene

Concen: 0.413 ng

RT: 26.204 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037326.D

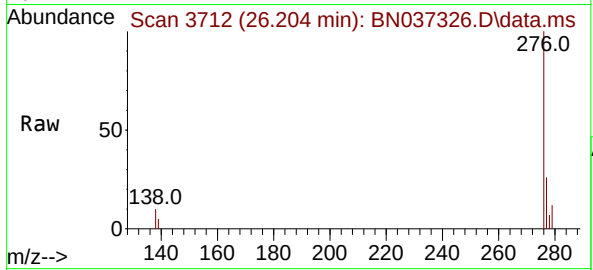
Acq: 18 Jun 2025 23:15

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MS



Tgt Ion:276 Resp: 3809

Ion Ratio Lower Upper

276 100

277 26.4 22.7 34.1

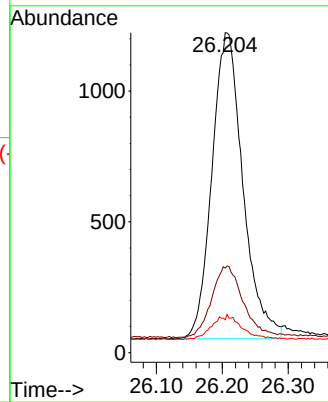
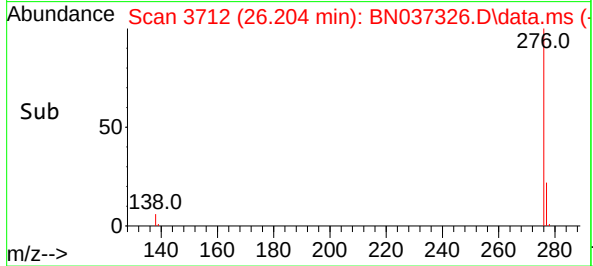
138 10.3 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/13/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/13/25
Client Sample ID:	TT172S1-20250613MSD	SDG No.:	Q2329
Lab Sample ID:	Q2329-12MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 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
BN037327.D	1	06/17/25 08:55	06/18/25 23:52	PB168508

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.50		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		111%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		91%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53	*	58 - 132		133%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	652		7.568			
1146-65-2	Naphthalene-d8	1480		10.351			
15067-26-2	Acenaphthene-d10	1040		14.224			
1517-22-2	Phenanthrene-d10	2190		16.971			
1719-03-5	Chrysene-d12	2330		21.171			
1520-96-3	Perylene-d12	2470		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\BN061925\
 Data File : BN037327.D
 Acq On : 18 Jun 2025 23:52
 Operator : RC/JU
 Sample : Q2329-12MSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/19/2025
 Supervised By :mohammad ahmed 06/23/2025

Quant Time: Jun 19 06:40:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	652	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1479	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1035	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2193	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2332	0.400	ng	# 0.00
35) Perylene-d12	23.351	264	2470	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	187	0.158	ng	0.00
5) Phenol-d6	6.759	99	103	0.088	ng	0.00
8) Nitrobenzene-d5	8.717	82	397	0.322	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	863m	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	282	0.369	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	1651	0.364	ng	0.00
27) Fluoranthene-d10	19.008	212	3093	0.445	ng	0.00
31) Terphenyl-d14	19.616	244	2860	0.534	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	836	1.436	ng	# 86
3) n-Nitrosodimethylamine	3.422	42	120	0.178	ng	# 94
6) bis(2-Chloroethyl)ether	7.004	93	330	0.331	ng	90
9) Naphthalene	10.394	128	1308	0.342	ng	98
10) Hexachlorobutadiene	10.682	225	602	0.311	ng	# 97
12) 2-Methylnaphthalene	12.021	142	854	0.317	ng	98
16) Acenaphthylene	13.935	152	1624	0.373	ng	97
17) Acenaphthene	14.277	154	983	0.340	ng	100
18) Fluorene	15.272	166	1532	0.374	ng	98
20) 4,6-Dinitro-2-methylph...	15.368	198	263	0.390	ng	# 80
21) 4-Bromophenyl-phenylether	16.177	248	734	0.403	ng	# 93
22) Hexachlorobenzene	16.276	284	716	0.376	ng	98
23) Atrazine	16.450	200	667	0.469	ng	# 89
24) Pentachlorophenol	16.624	266	786	0.744	ng	97
25) Phenanthrene	17.009	178	2704	0.438	ng	99
26) Anthracene	17.108	178	2487	0.429	ng	99
28) Fluoranthene	19.040	202	3796	0.443	ng	# 96
30) Pyrene	19.403	202	3860	0.435	ng	99
32) Benzo(a)anthracene	21.153	228	3683	0.490	ng	98
33) Chrysene	21.207	228	4114	0.429	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1600	0.520	ng	99
36) Indeno(1,2,3-cd)pyrene	25.541	276	4780	0.460	ng	# 93
37) Benzo(b)fluoranthene	22.699	252	3789	0.439	ng	97
38) Benzo(k)fluoranthene	22.743	252	4103	0.433	ng	97
39) Benzo(a)pyrene	23.260	252	3593	0.450	ng	94
40) Dibenzo(a,h)anthracene	25.553	278	3494	0.419	ng	# 87
41) Benzo(g,h,i)perylene	26.205	276	4093	0.430	ng	98

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

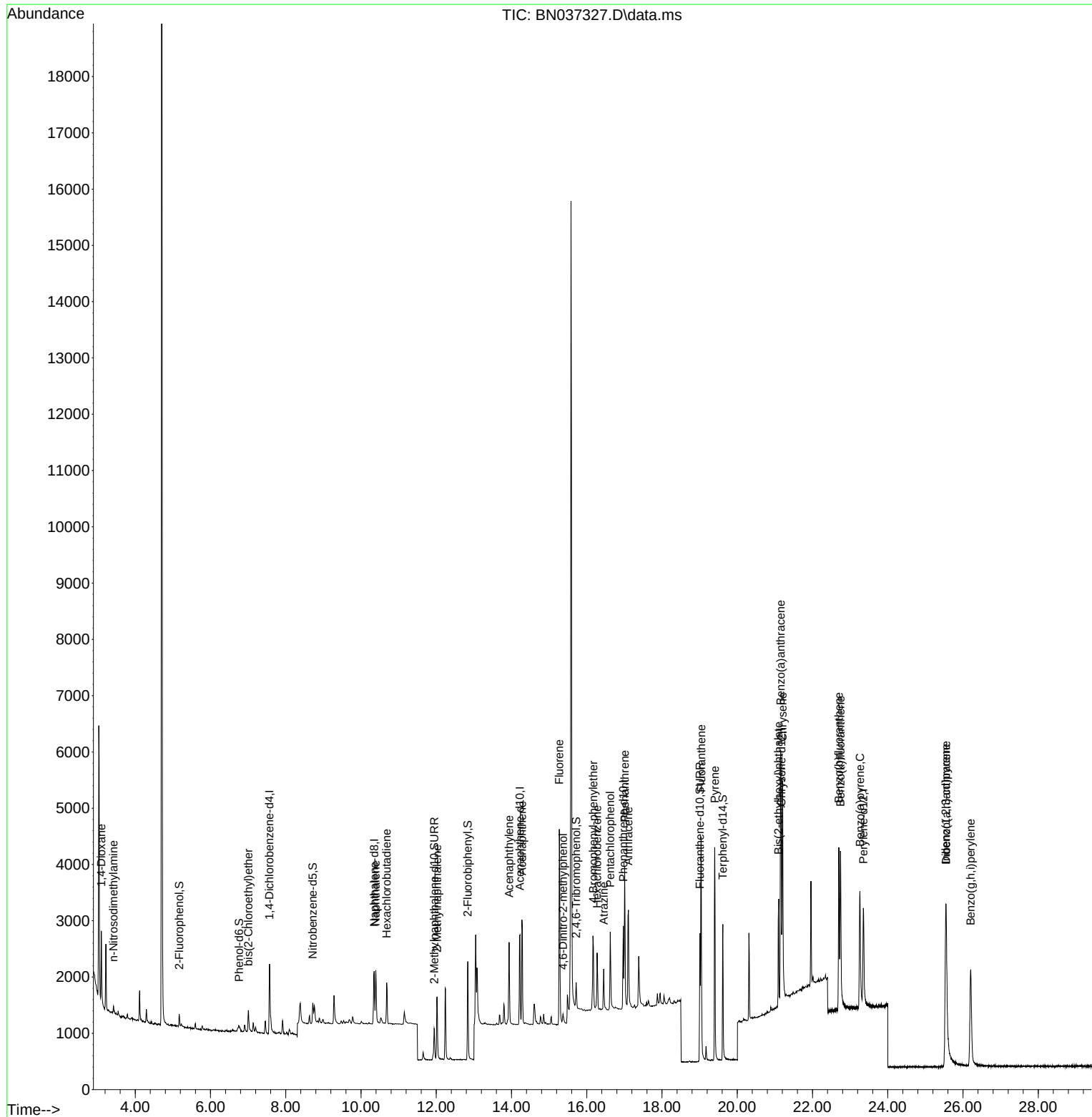
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037327.D
Acq On : 18 Jun 2025 23:52
Operator : RC/JU
Sample : Q2329-12MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

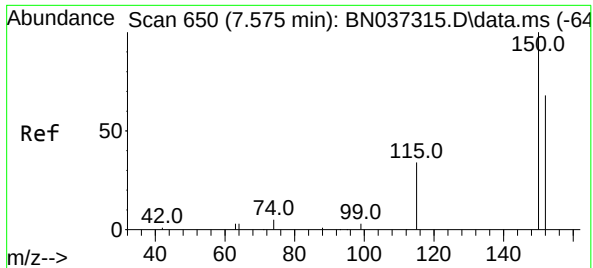
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

Quant Time: Jun 19 06:40:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

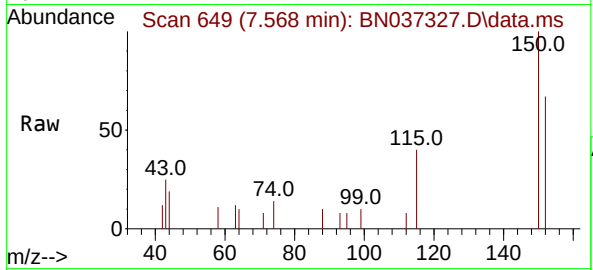
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

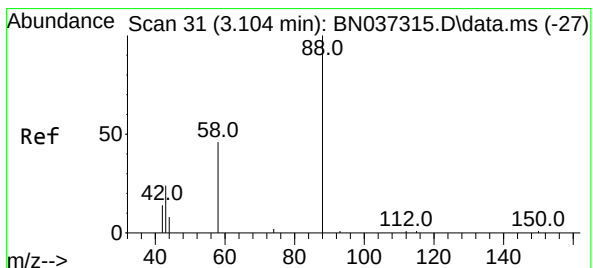
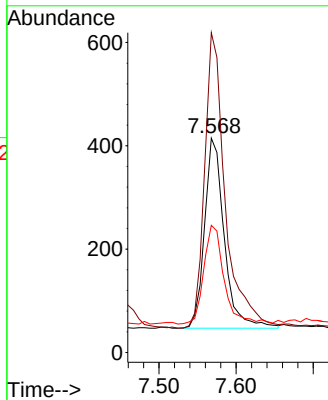
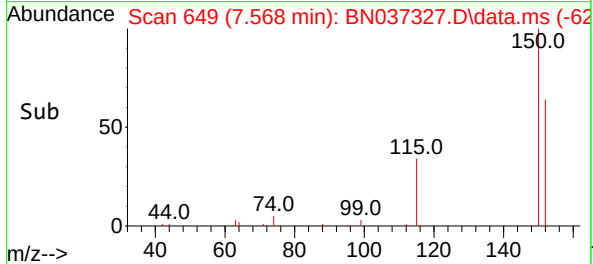
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion: 152 Resp: 652
Ion Ratio Lower Upper
152 100
150 149.2 112.7 169.1
115 59.3 45.9 68.9

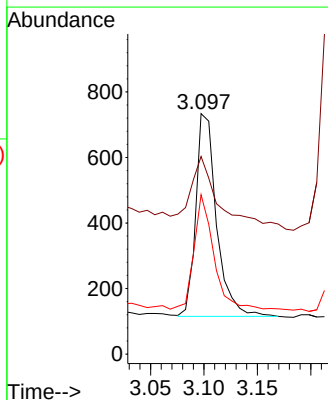
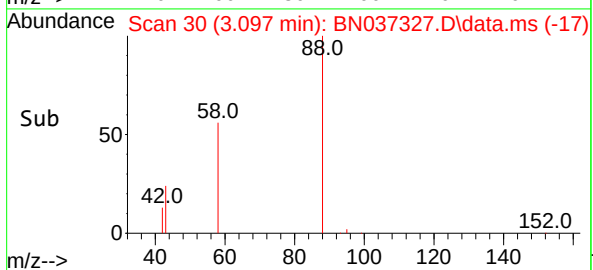
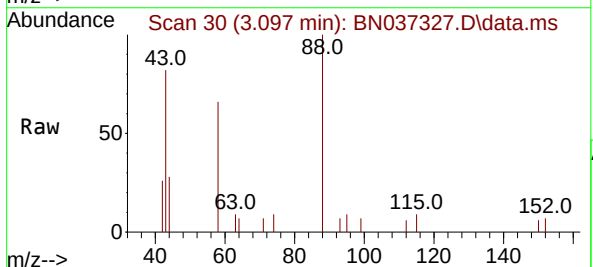
Manual Integrations
APPROVED

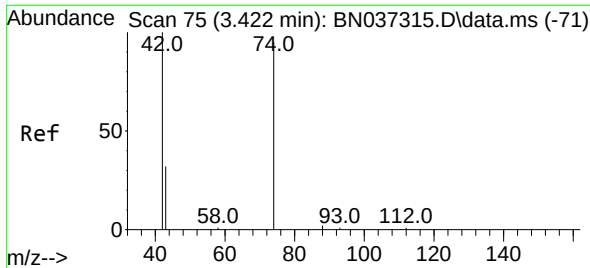
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#2
1,4-Dioxane
Concen: 1.436 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

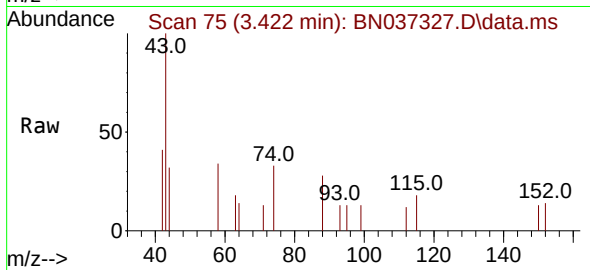
Tgt Ion: 88 Resp: 836
Ion Ratio Lower Upper
88 100
43 39.5 21.0 31.6#
58 52.9 38.0 57.0





#3
n-Nitrosodimethylamine
Concen: 0.178 ng
RT: 3.422 min Scan# 75
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

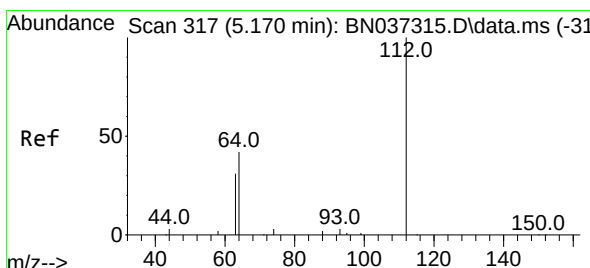
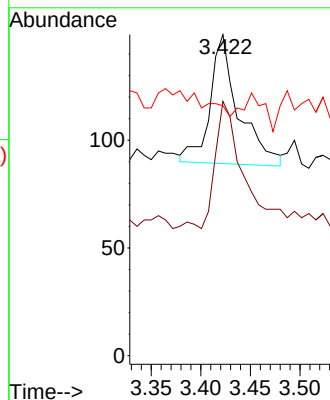
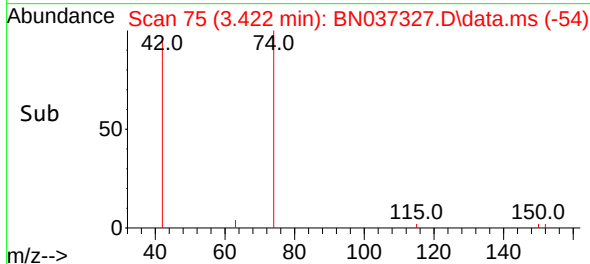
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



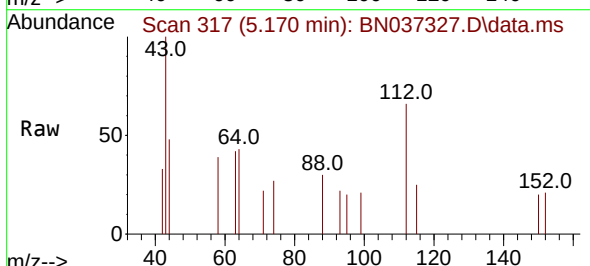
Tgt Ion: 42 Resp: 120
Ion Ratio Lower Upper
42 100
74 110.8 84.3 126.5
44 0.0 5.0 7.4

Manual Integrations
APPROVED

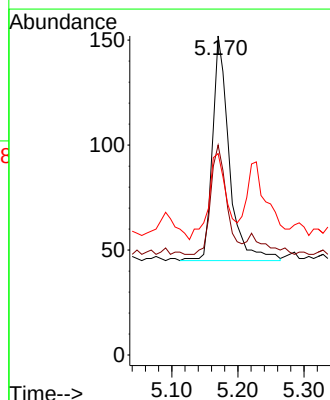
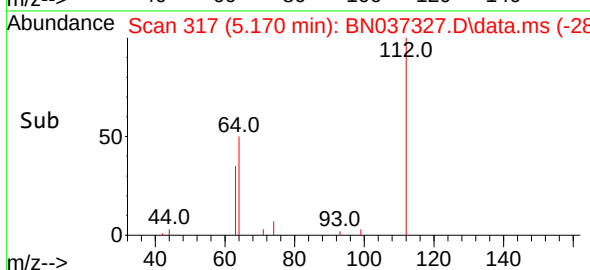
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

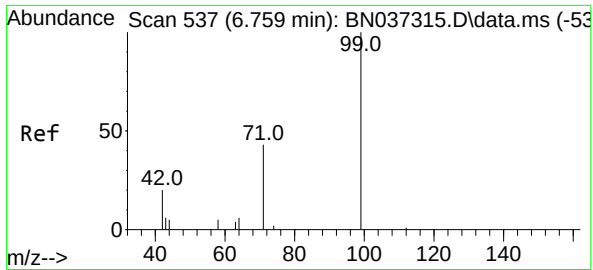


#4
2-Fluorophenol
Concen: 0.158 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52



Tgt Ion: 112 Resp: 187
Ion Ratio Lower Upper
112 100
64 47.1 38.7 58.1
63 41.2 26.4 39.6





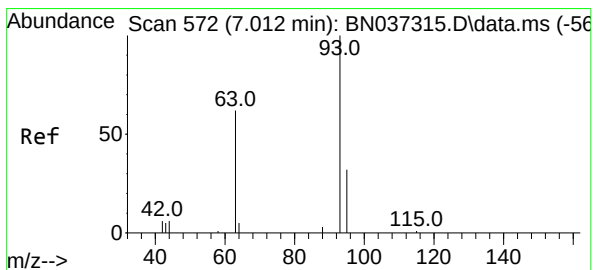
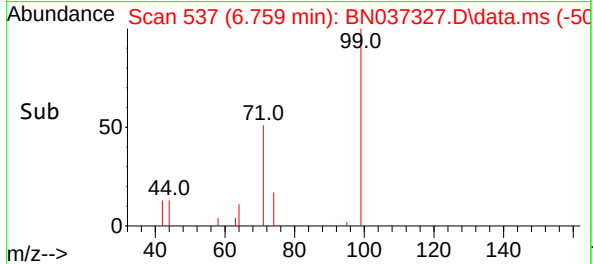
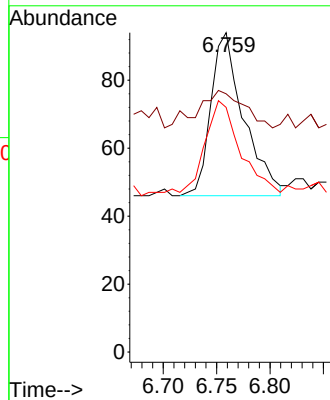
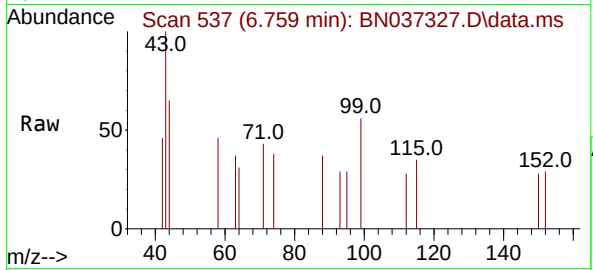
#5
Phenol-d6
Concen: 0.088 ng
RT: 6.759 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion: 99 Resp: 100
Ion Ratio Lower Upper
99 100
42 31.1 19.8 29.8
71 58.3 42.6 64.0

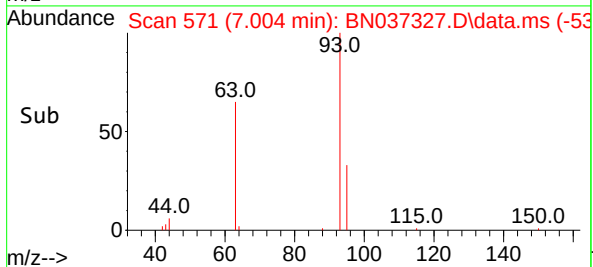
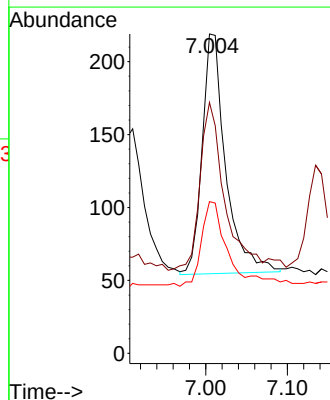
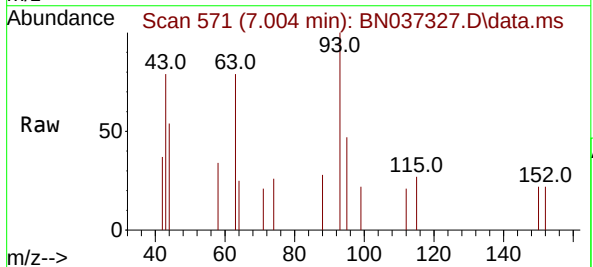
Manual Integrations
APPROVED

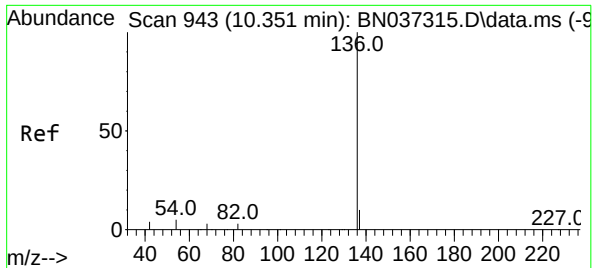
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.331 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

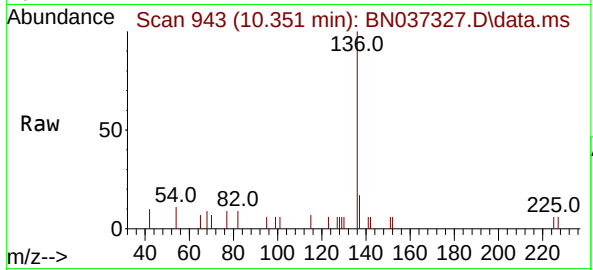
Tgt Ion: 93 Resp: 330
Ion Ratio Lower Upper
93 100
63 75.5 53.2 79.8
95 37.9 27.3 40.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

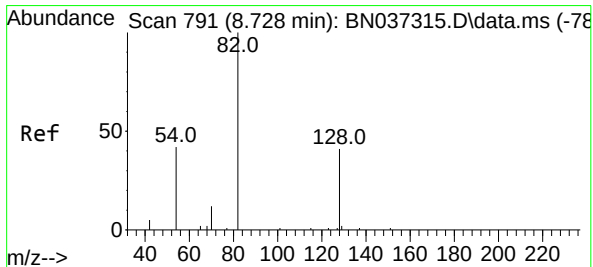
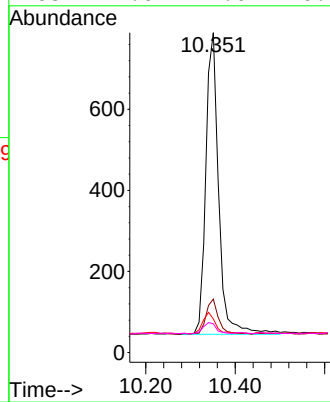
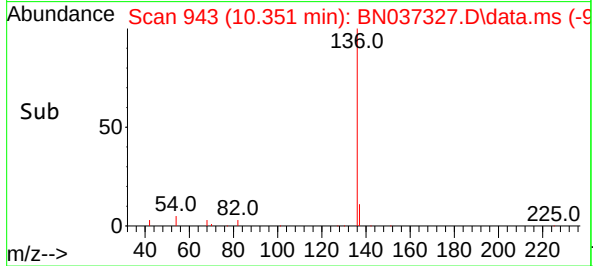
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:	136	Resp:	1479
Ion	Ratio	Lower	Upper
136	100		
137	16.7	12.2	18.2
54	10.5	8.8	13.2
68	9.0	7.0	10.4

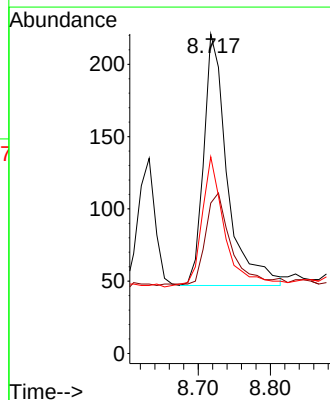
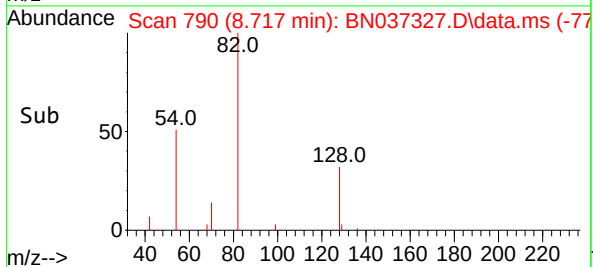
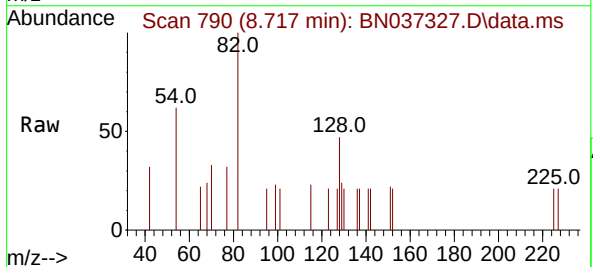
Manual Integrations
APPROVED

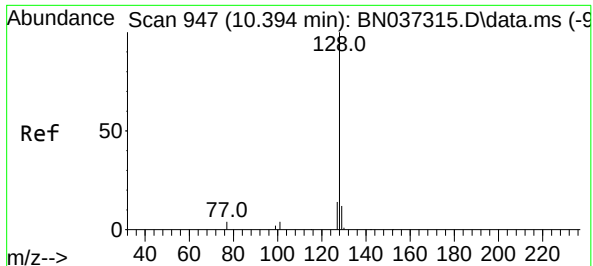
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:	82	Resp:	397
Ion	Ratio	Lower	Upper
82	100		
128	47.1	42.5	63.7
54	61.5	43.2	64.8





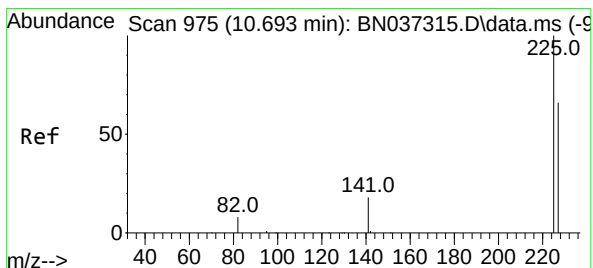
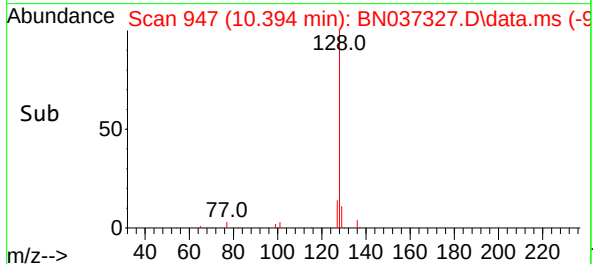
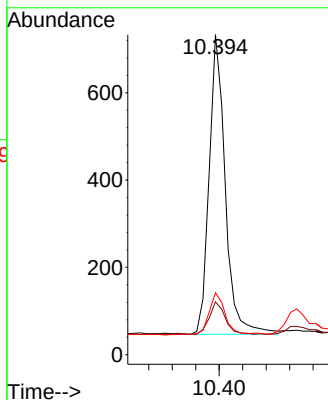
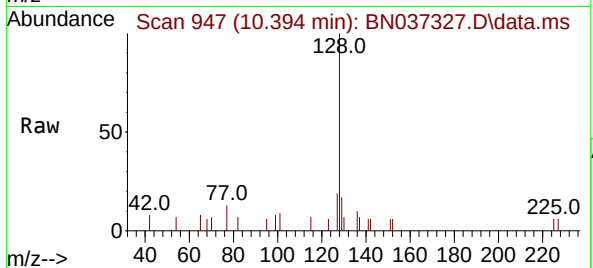
#9
Naphthalene
Concen: 0.342 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion:128 Resp: 1308
Ion Ratio Lower Upper
128 100
129 16.5 14.0 21.0
127 19.4 15.8 23.8

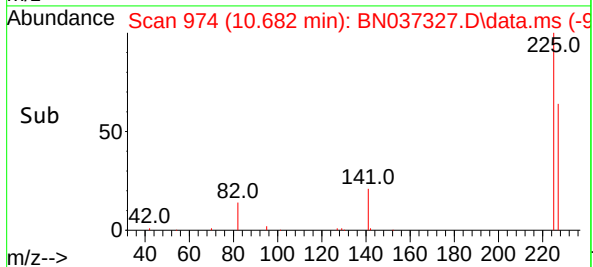
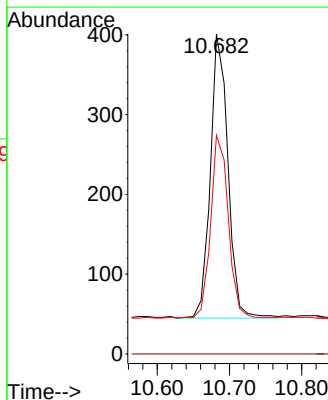
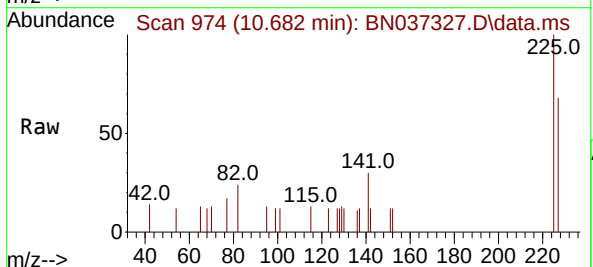
Manual Integrations
APPROVED

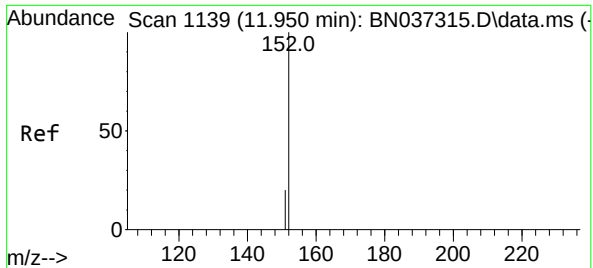
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#10
Hexachlorobutadiene
Concen: 0.311 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

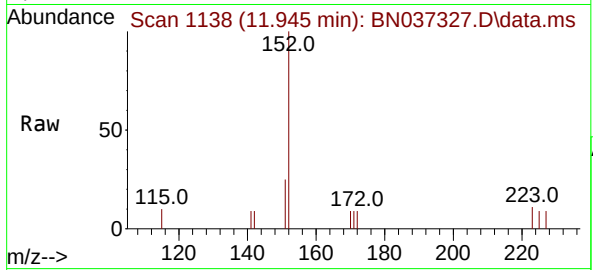
Tgt Ion:225 Resp: 602
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.1 50.3 75.5





#11
2-Methylnaphthalene-d10
Concen: 0.359 ng m
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

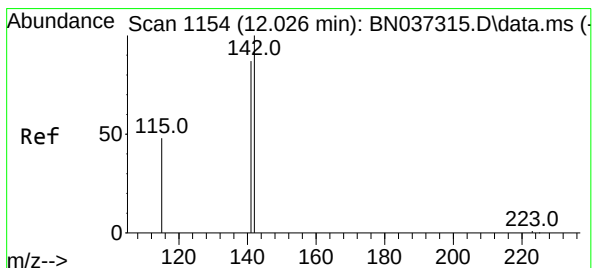
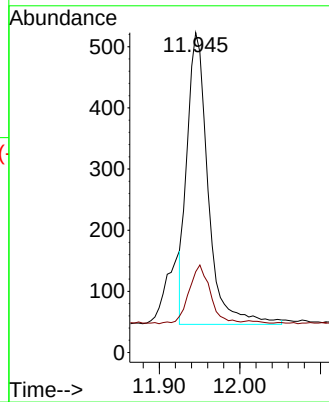
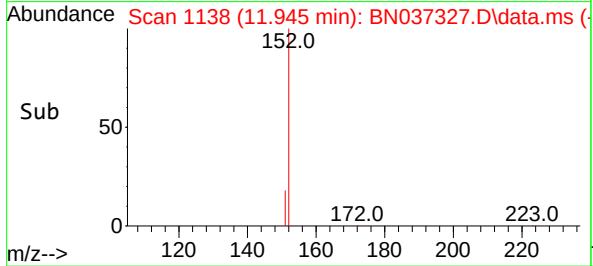
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:152 Resp: 86
Ion Ratio Lower Upper
152 100
151 20.6 17.4 26.0

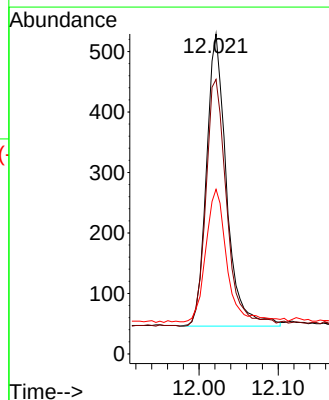
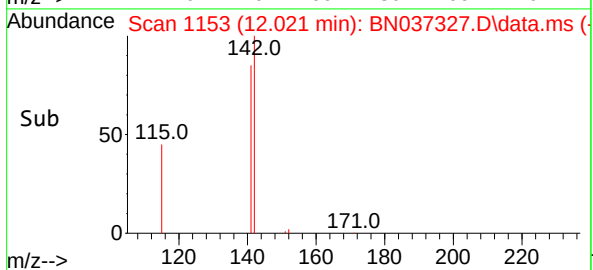
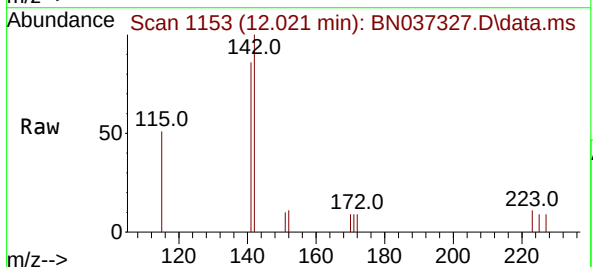
Manual Integrations
APPROVED

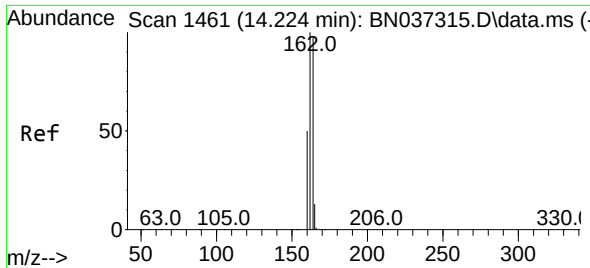
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

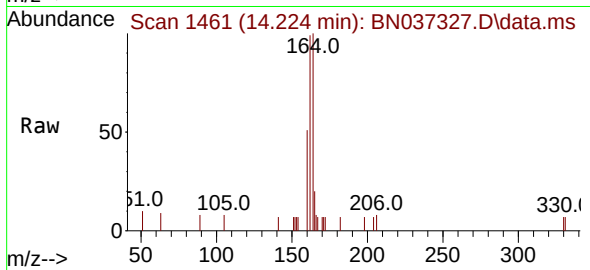
Tgt Ion:142 Resp: 854
Ion Ratio Lower Upper
142 100
141 85.8 70.2 105.2
115 51.4 43.0 64.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

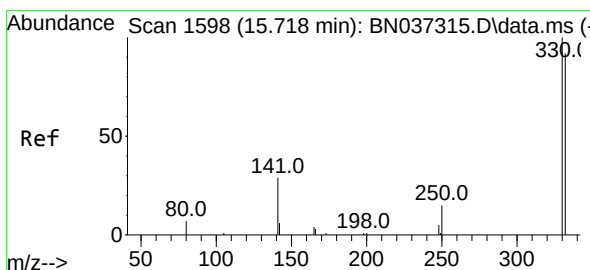
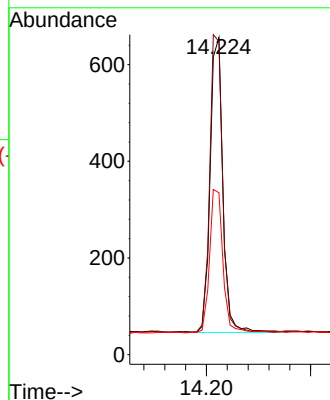
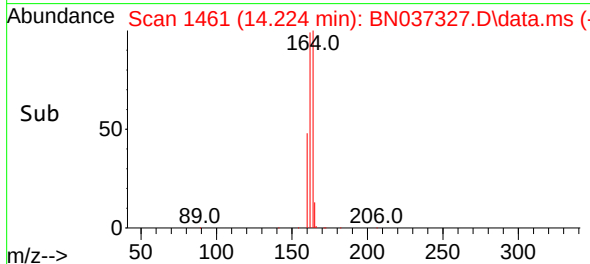
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



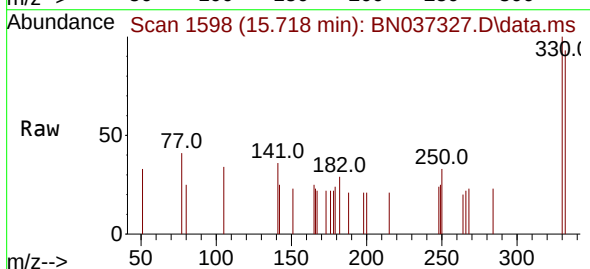
Tgt Ion:164 Resp: 1035
Ion Ratio Lower Upper
164 100
162 98.8 81.5 122.3
160 51.1 43.0 64.4

Manual Integrations
APPROVED

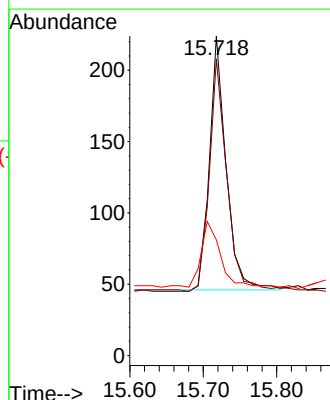
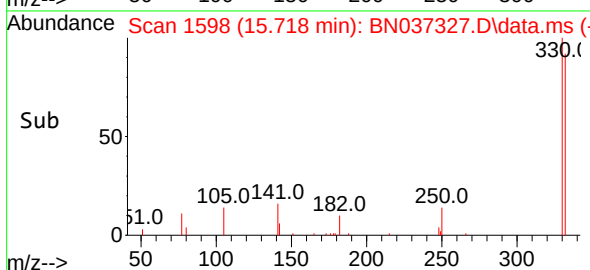
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

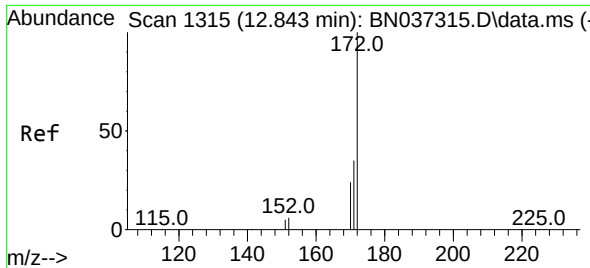


#14
2,4,6-Tribromophenol
Concen: 0.369 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52



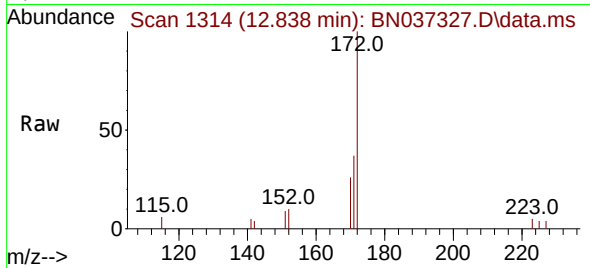
Tgt Ion:330 Resp: 282
Ion Ratio Lower Upper
330 100
332 97.5 78.4 117.6
141 32.6 24.4 36.6





#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.838 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

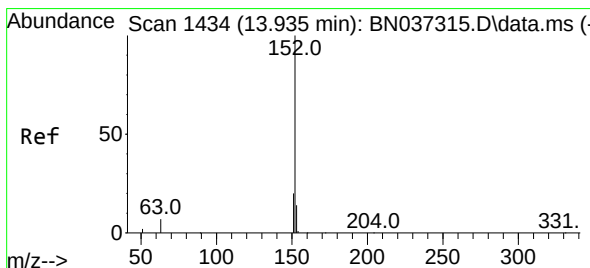
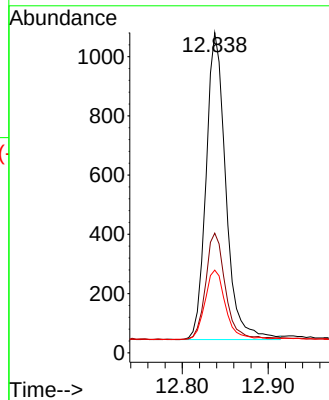
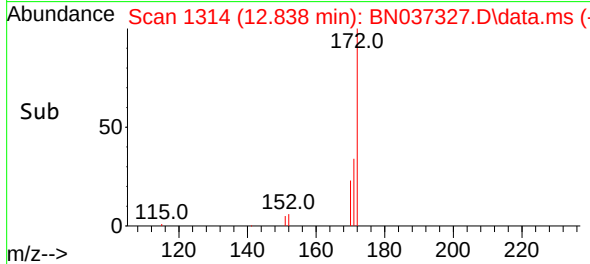
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:172 Resp: 165
Ion Ratio Lower Upper
172 100
171 37.4 30.8 46.2
170 25.8 21.9 32.9

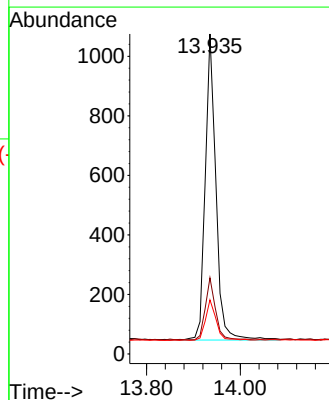
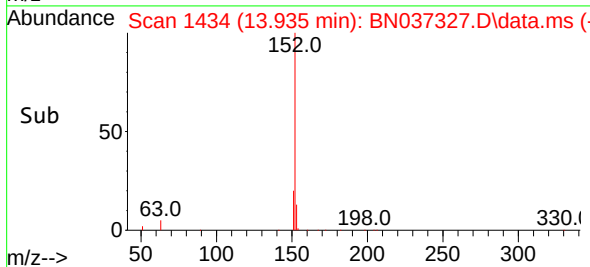
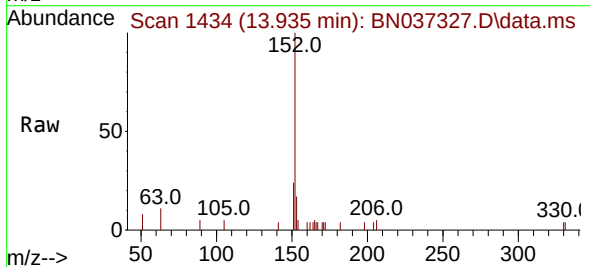
Manual Integrations
APPROVED

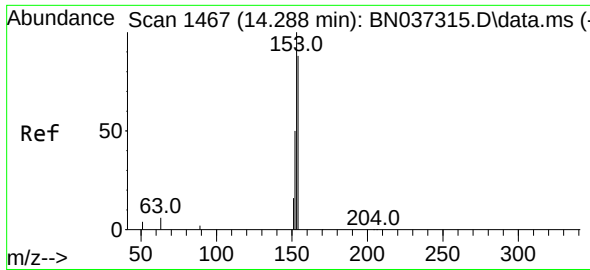
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

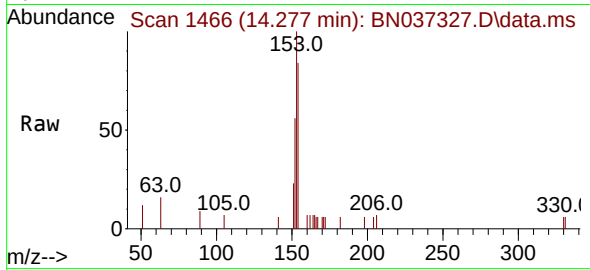
Tgt Ion:152 Resp: 1624
Ion Ratio Lower Upper
152 100
151 19.1 16.6 24.8
153 13.3 10.2 15.2





#17
Acenaphthene
Concen: 0.340 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

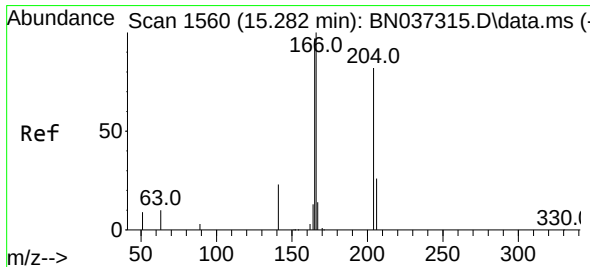
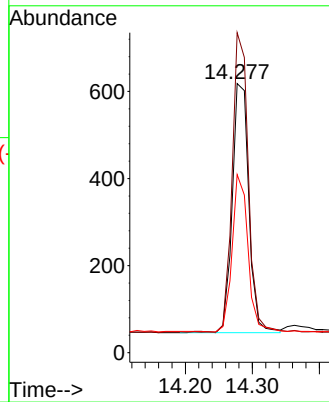
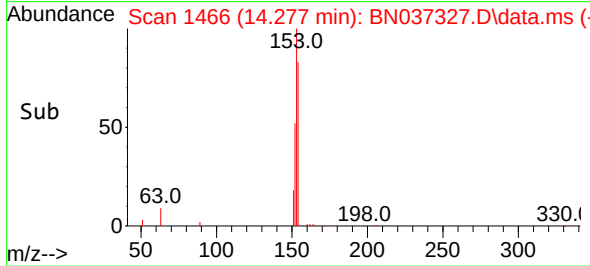
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:154 Resp: 98
Ion Ratio Lower Upper
154 100
153 116.8 93.1 139.7
152 60.2 48.6 73.0

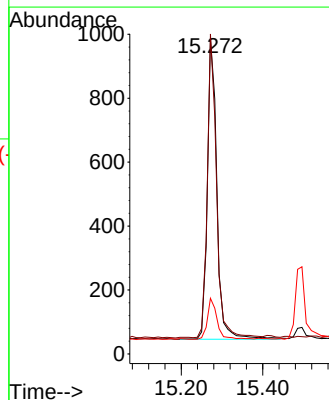
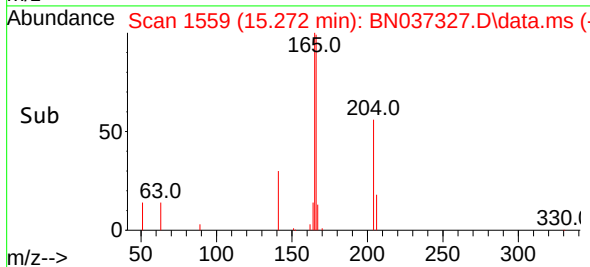
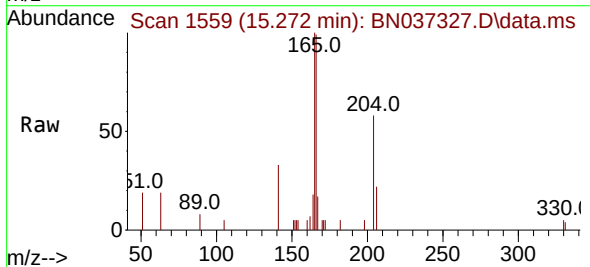
Manual Integrations
APPROVED

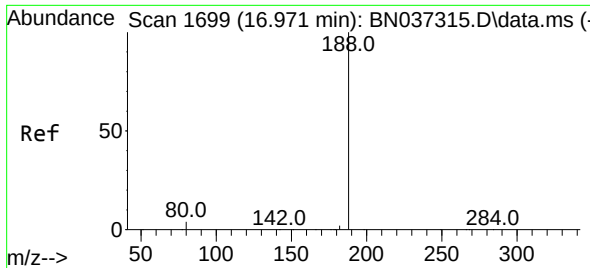
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#18
Fluorene
Concen: 0.374 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:166 Resp: 1532
Ion Ratio Lower Upper
166 100
165 96.9 79.5 119.3
167 13.8 10.7 16.1





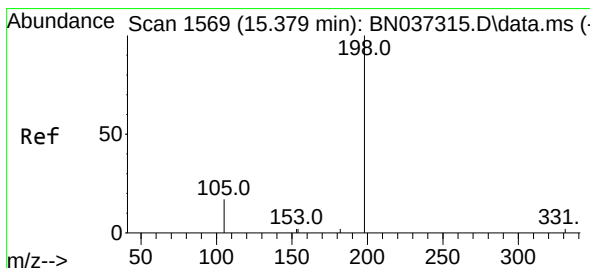
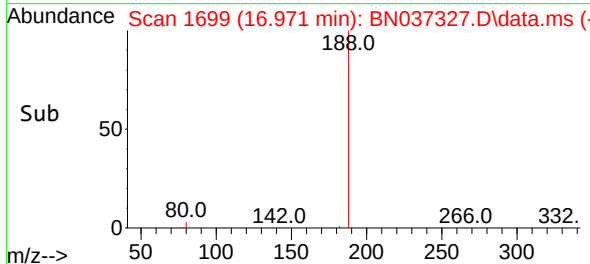
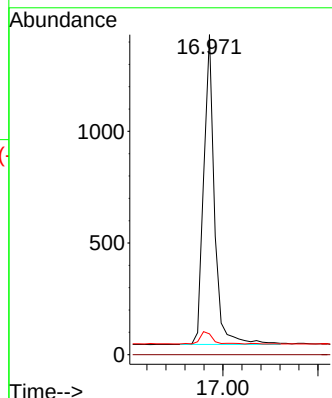
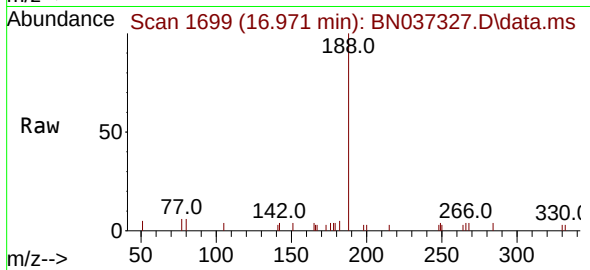
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	6.5	6.2	9.2

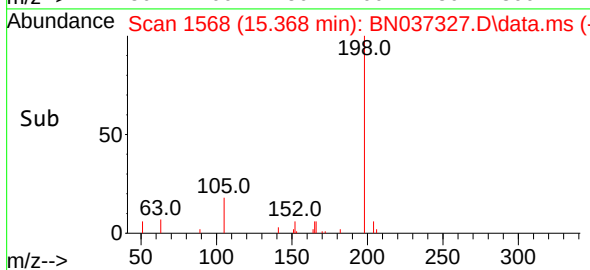
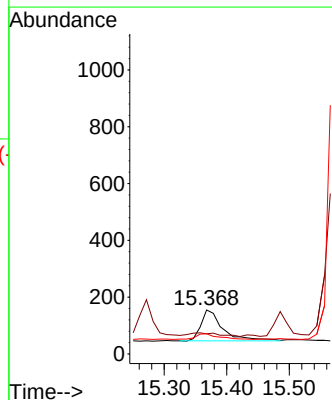
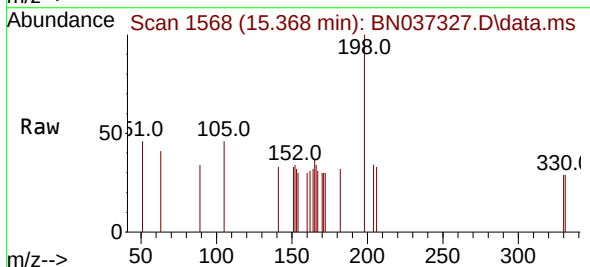
Manual Integrations
APPROVED

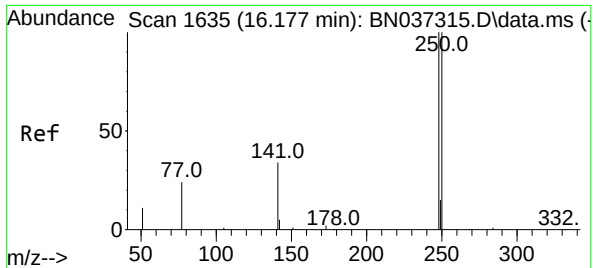
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.390 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

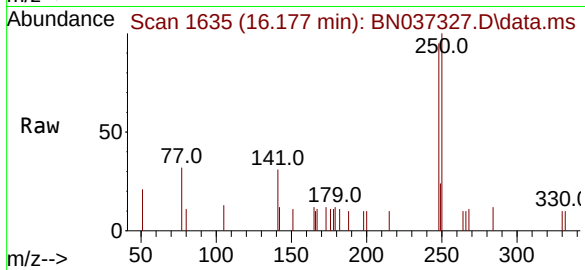
Tgt Ion	Ratio	Lower	Upper
198	100		
51	45.8	51.4	77.0#
105	45.8	45.5	68.3





#21
4-Bromophenyl-phenylether
Concen: 0.403 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

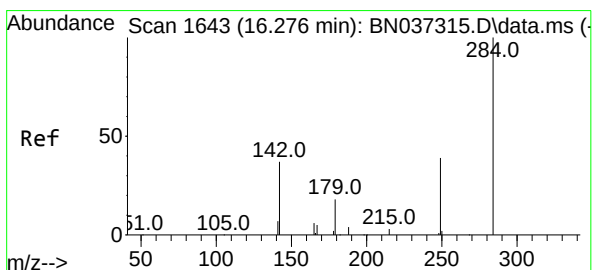
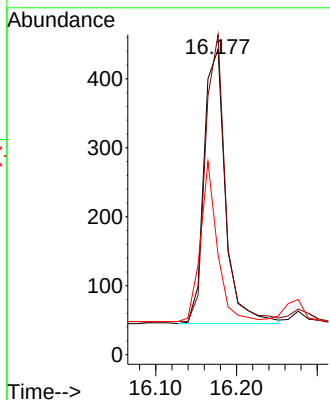
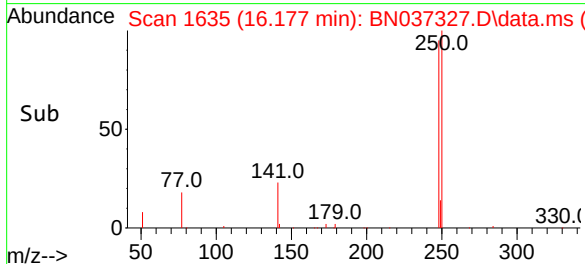
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



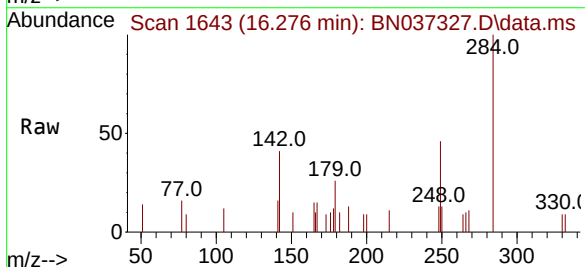
Tgt Ion:248 Resp: 734
Ion Ratio Lower Upper
248 100
250 104.7 80.4 120.6
141 32.7 33.3 49.9

Manual Integrations
APPROVED

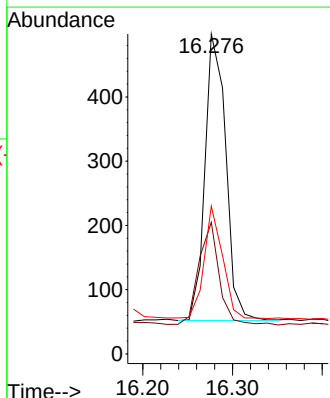
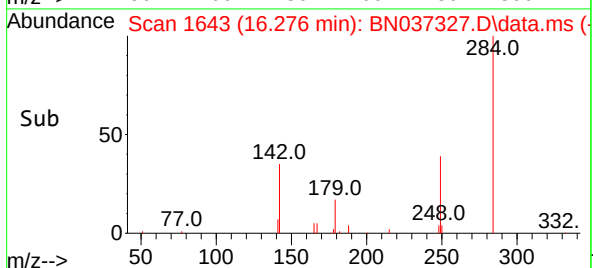
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

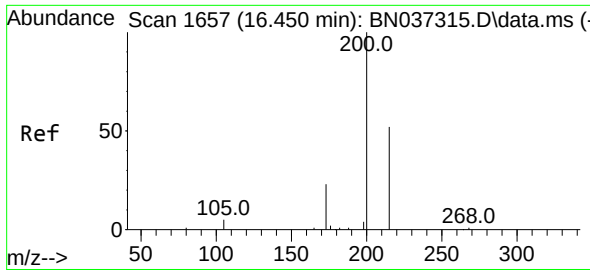


#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52



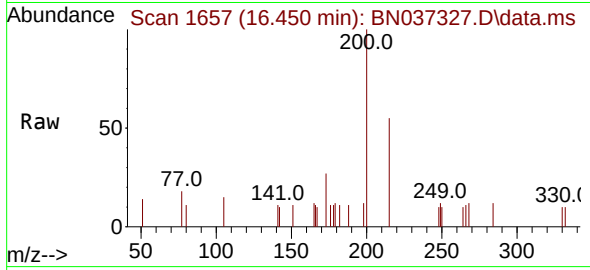
Tgt Ion:284 Resp: 716
Ion Ratio Lower Upper
284 100
142 35.5 27.0 40.6
249 36.7 28.8 43.2





#23
Atrazine
Concen: 0.469 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

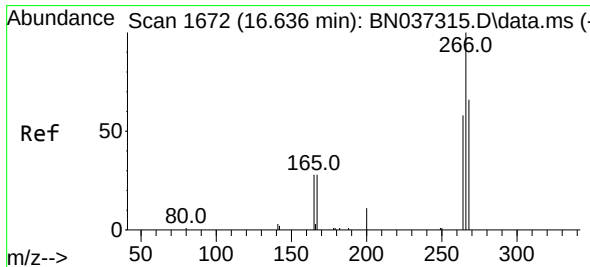
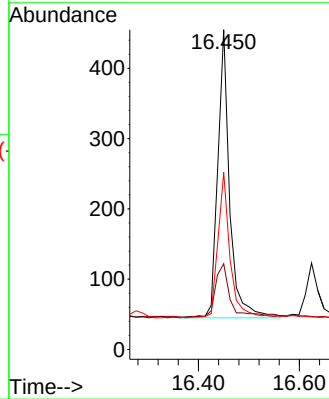
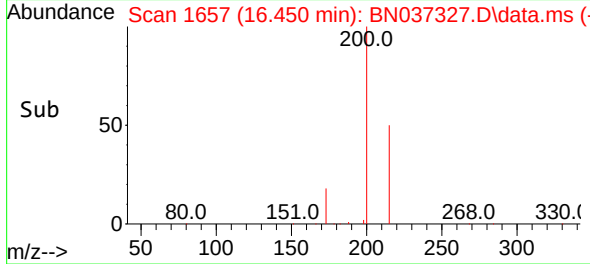
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:200 Resp: 66
Ion Ratio Lower Upper
200 100
173 26.8 29.2 43.8
215 55.4 48.8 73.2

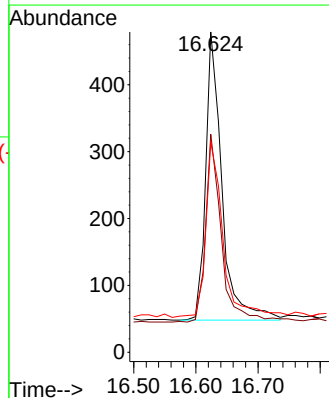
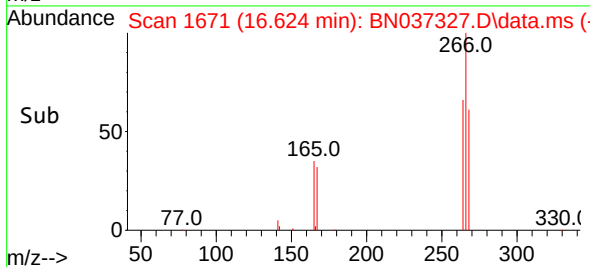
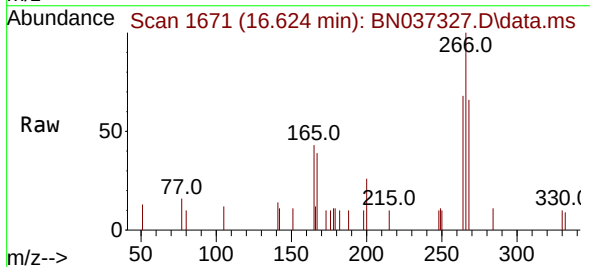
Manual Integrations
APPROVED

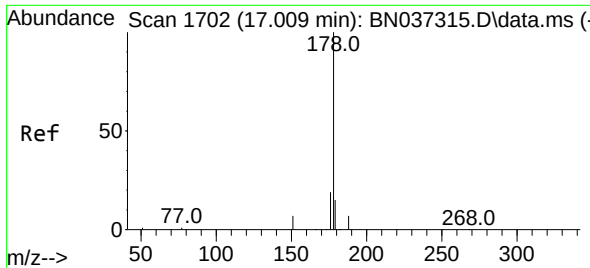
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#24
Pentachlorophenol
Concen: 0.744 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.012 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:266 Resp: 786
Ion Ratio Lower Upper
266 100
264 64.0 50.3 75.5
268 65.0 55.3 82.9





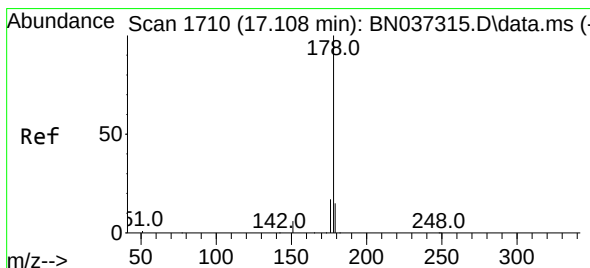
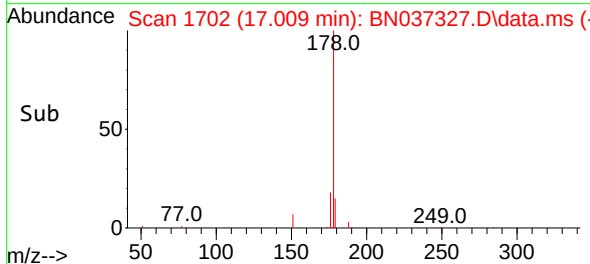
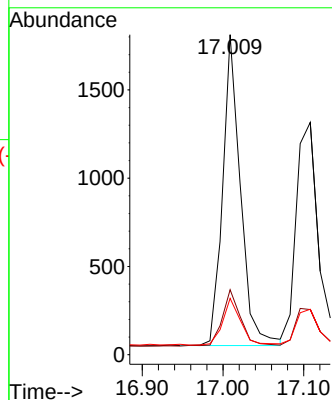
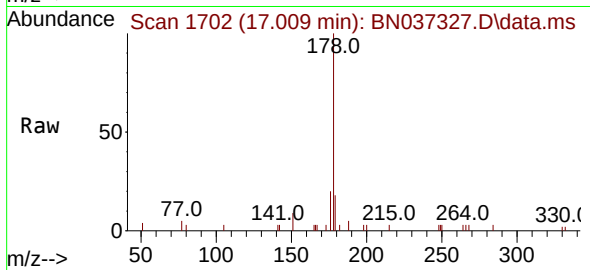
#25
Phenanthrene
Concen: 0.438 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.2	22.8
179	15.3	12.9	19.3

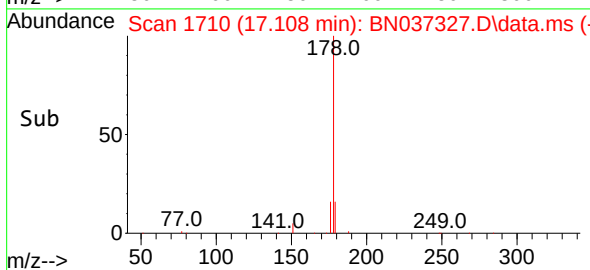
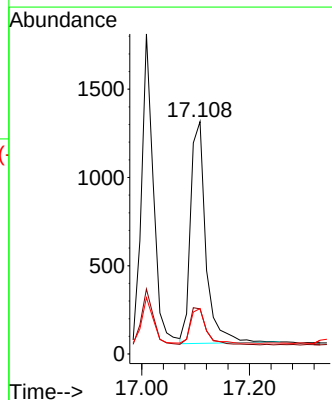
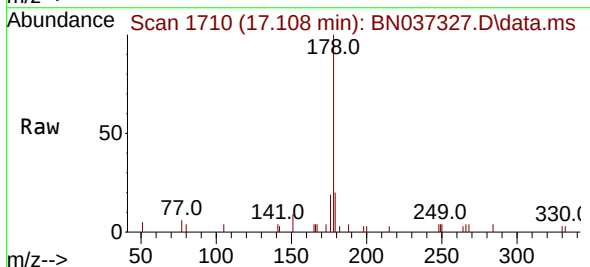
Manual Integrations
APPROVED

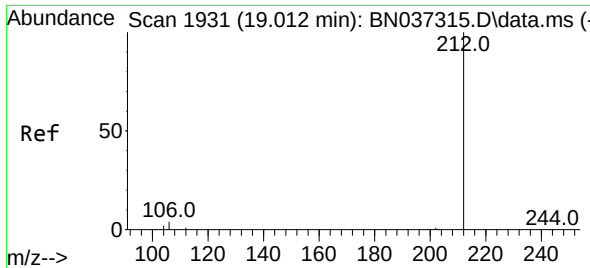
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#26
Anthracene
Concen: 0.429 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

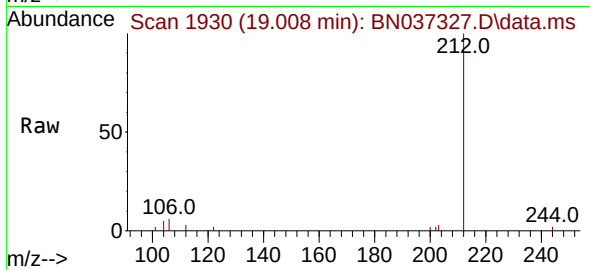
Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.7	22.1
179	15.7	13.0	19.6





#27
Fluoranthene-d10
Concen: 0.445 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

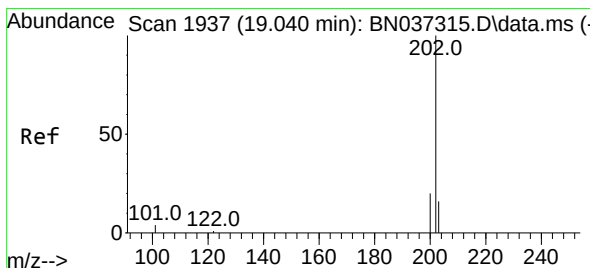
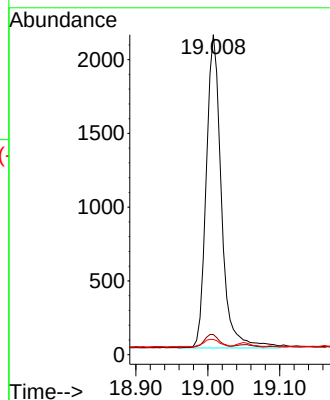
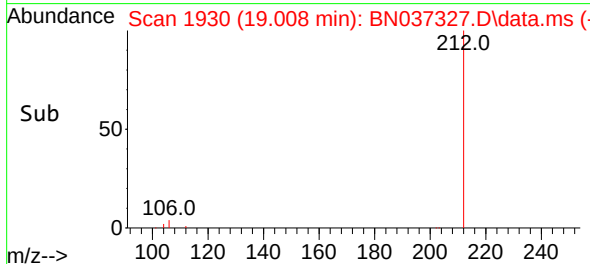
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:212 Resp: 309
Ion Ratio Lower Upper
212 100
106 4.2 3.0 4.4
104 2.6 2.0 3.0

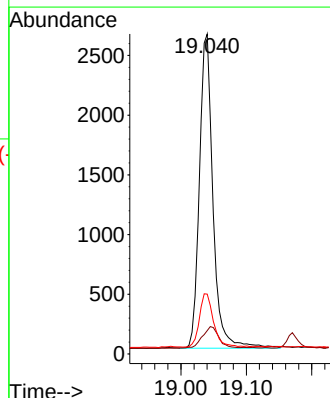
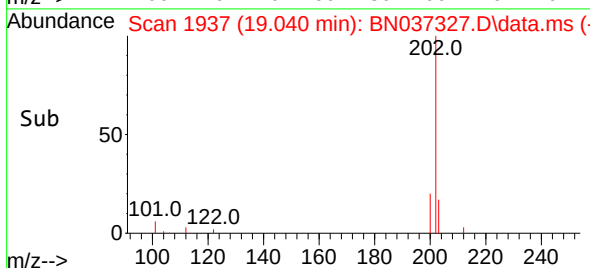
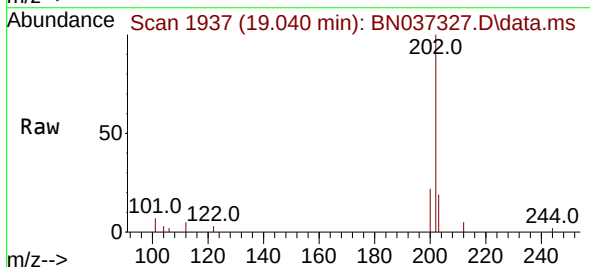
Manual Integrations
APPROVED

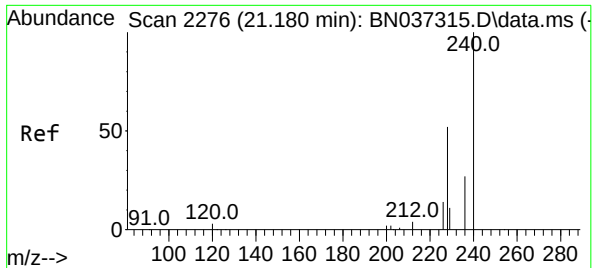
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#28
Fluoranthene
Concen: 0.443 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

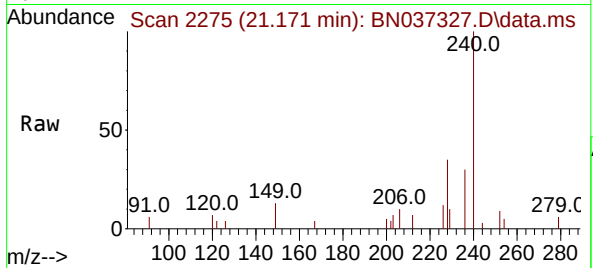
Tgt Ion:202 Resp: 3796
Ion Ratio Lower Upper
202 100
101 8.5 3.0 4.6#
203 17.8 13.7 20.5





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

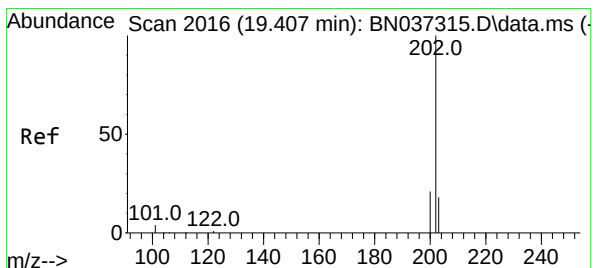
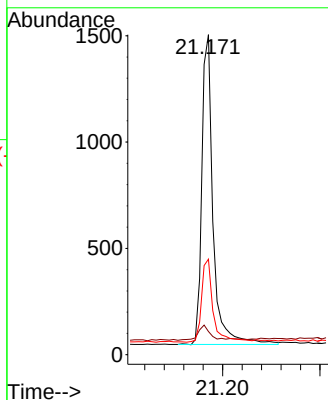
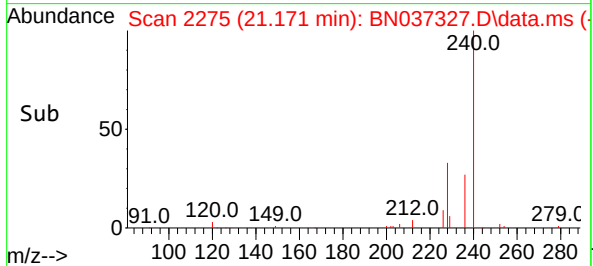
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:240 Resp: 2332
Ion Ratio Lower Upper
240 100
120 7.2 7.5 11.3
236 29.8 24.9 37.3

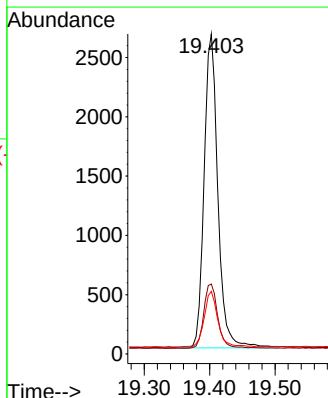
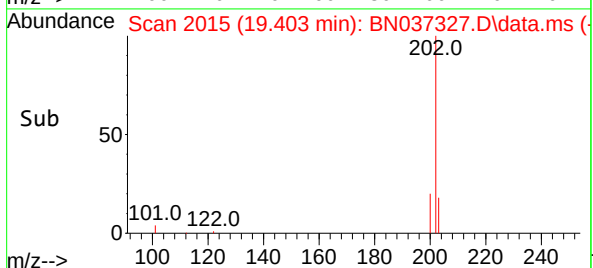
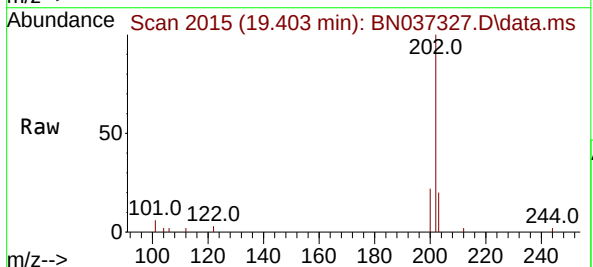
Manual Integrations
APPROVED

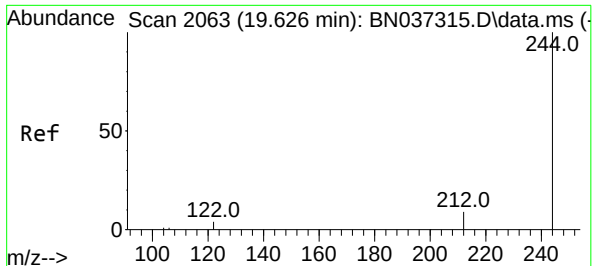
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#30
Pyrene
Concen: 0.435 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

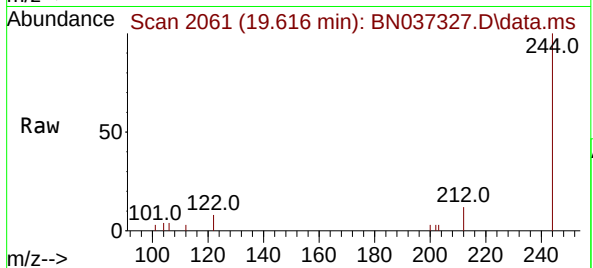
Tgt Ion:202 Resp: 3860
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 17.6 14.5 21.7





#31
Terphenyl-d14
Concen: 0.534 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

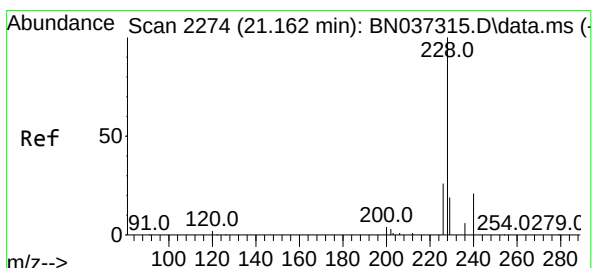
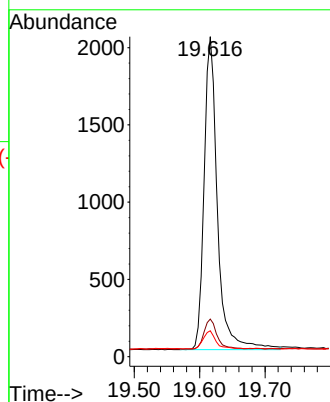
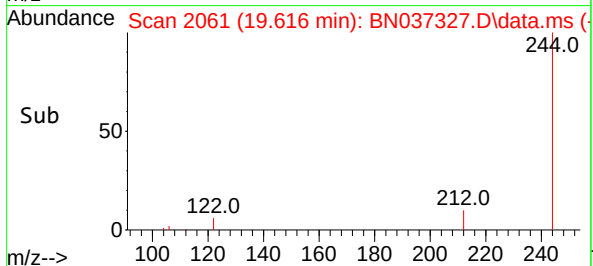
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:244 Resp: 2860
Ion Ratio Lower Upper
244 100
212 11.8 11.1 16.7
122 8.1 7.2 10.8

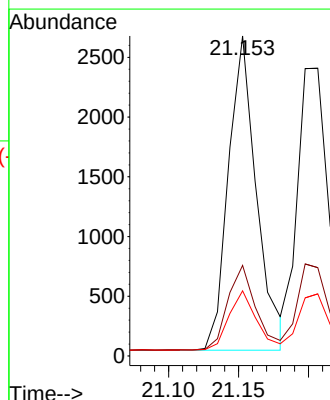
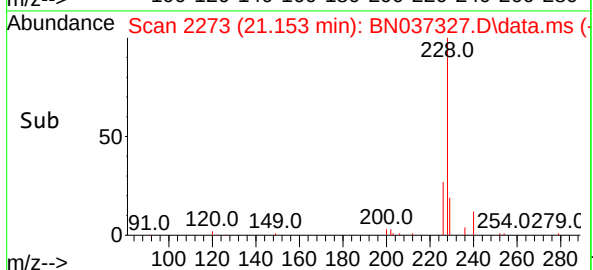
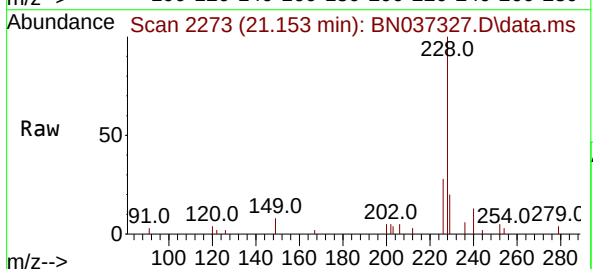
Manual Integrations
APPROVED

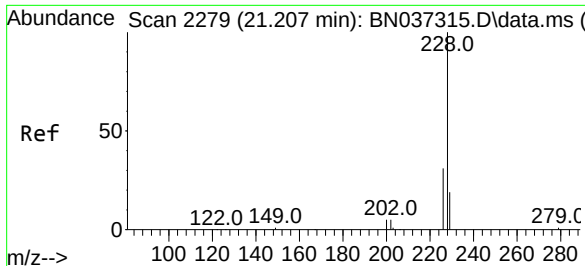
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#32
Benzo(a)anthracene
Concen: 0.490 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:228 Resp: 3683
Ion Ratio Lower Upper
228 100
226 28.3 23.0 34.4
229 20.3 17.4 26.0





#33

Chrysene

Concen: 0.429 ng

RT: 21.207 min Scan# 2114

Delta R.T. -0.000 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

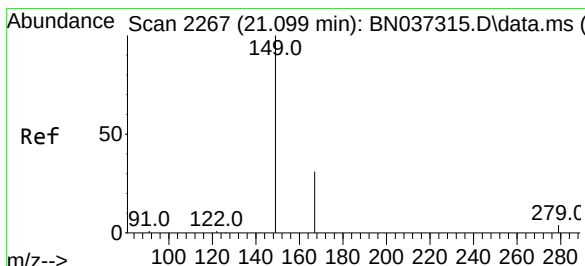
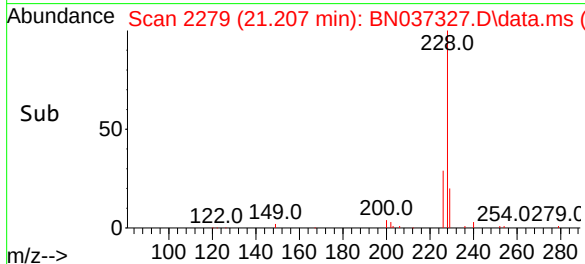
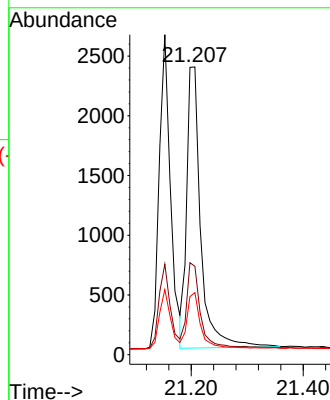
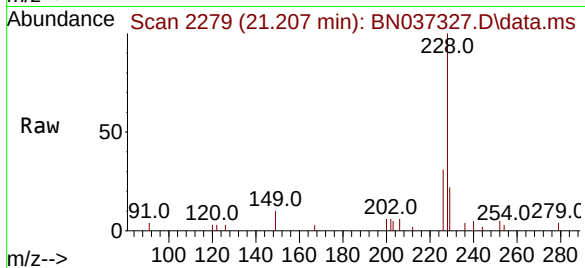
Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD

Tgt Ion:	228	Resp:	4114
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.4	38.2
229	21.6	17.3	25.9

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.520 ng

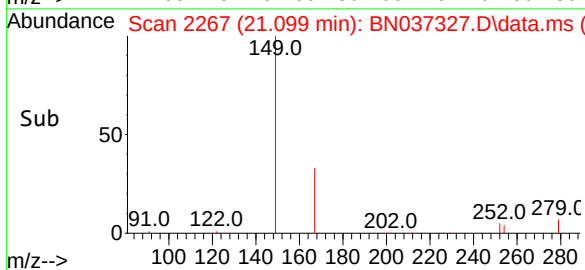
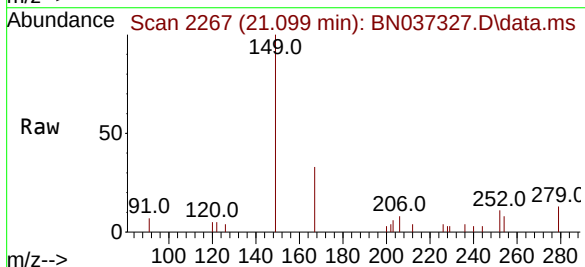
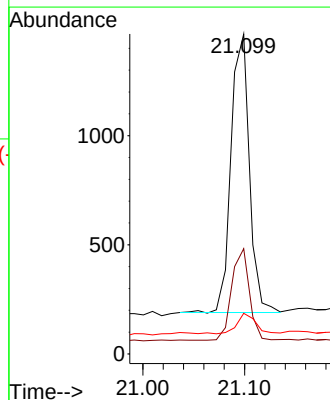
RT: 21.099 min Scan# 2267

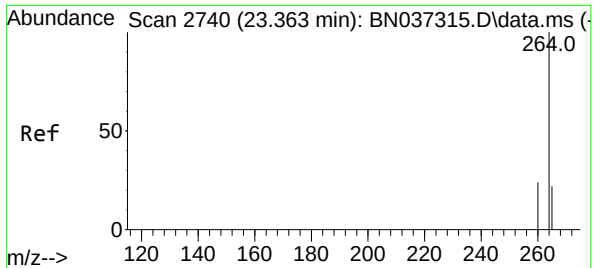
Delta R.T. -0.000 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

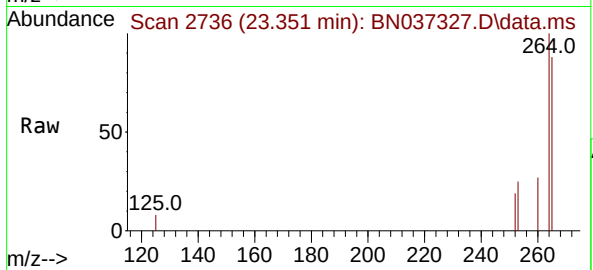
Tgt Ion:	149	Resp:	1600
Ion Ratio	Lower	Upper	
149	100		
167	31.5	24.6	37.0
279	7.3	6.5	9.7





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 21
Delta R.T. -0.012 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

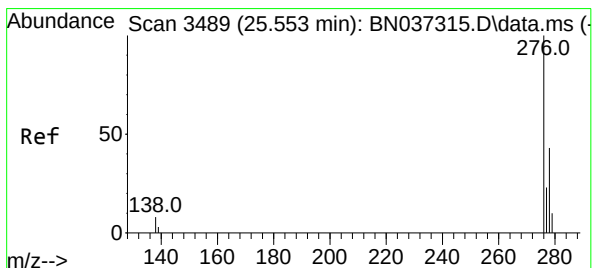
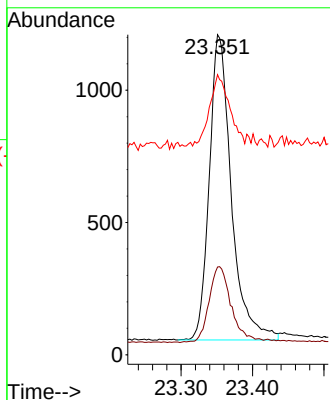
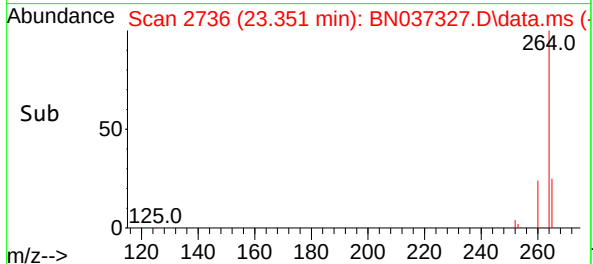
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion:264 Resp: 2470
Ion Ratio Lower Upper
264 100
260 27.4 21.4 32.2
265 87.5 71.4 107.0

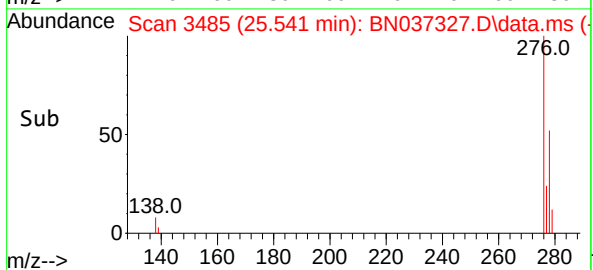
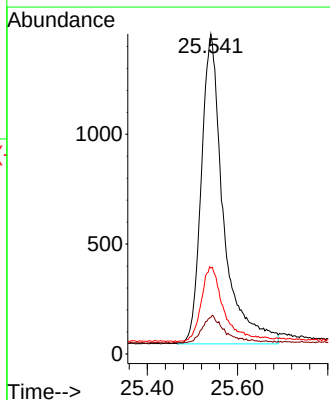
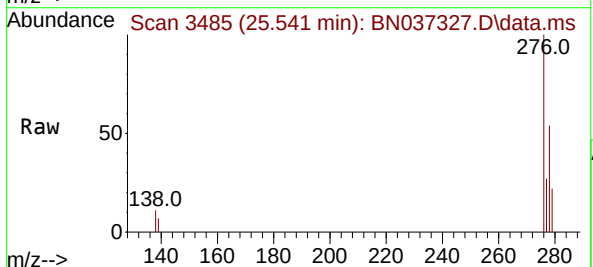
Manual Integrations
APPROVED

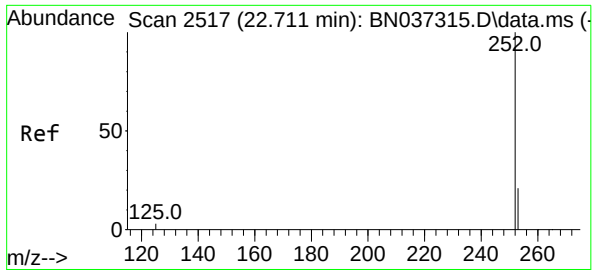
Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.460 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.012 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:276 Resp: 4780
Ion Ratio Lower Upper
276 100
138 8.3 2.2 3.2#
277 24.0 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.439 ng

RT: 22.699 min Scan# 2513

Delta R.T. -0.012 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD

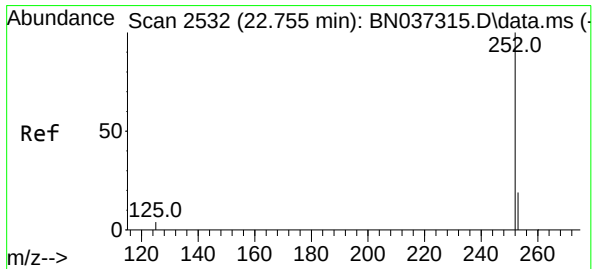
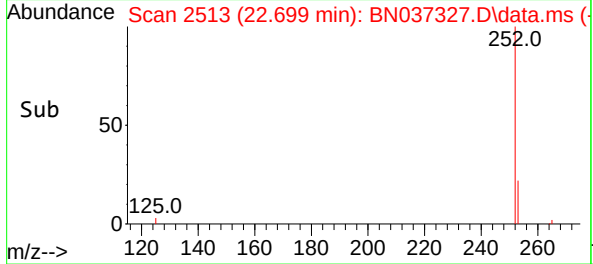
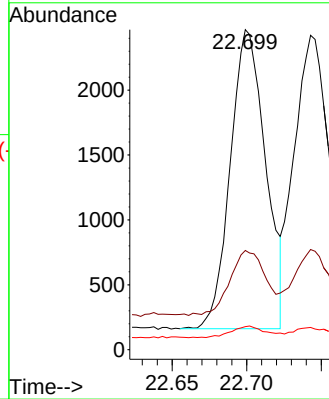
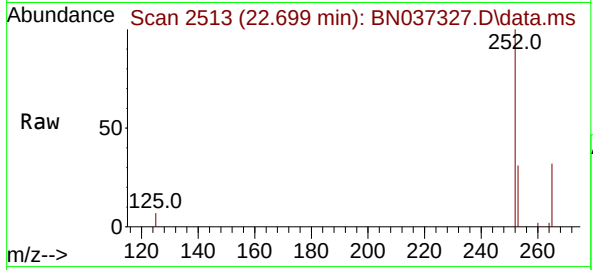
Tgt Ion:	252	Resp:	3789
Ion Ratio	Lower	Upper	
252	100		
253	31.0	26.6	40.0
125	7.2	6.1	9.1

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/19/2025

Supervised By :mohammad ahmed 06/23/2025



#38

Benzo(k)fluoranthene

Concen: 0.433 ng

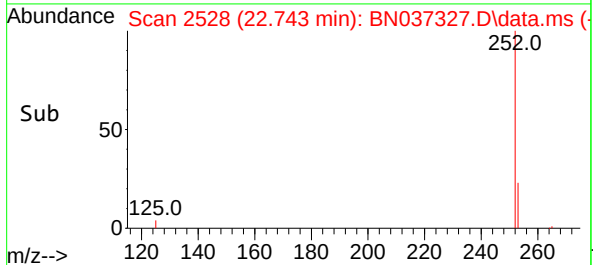
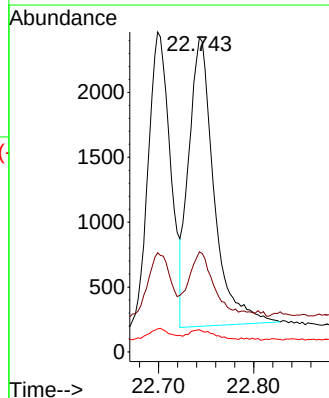
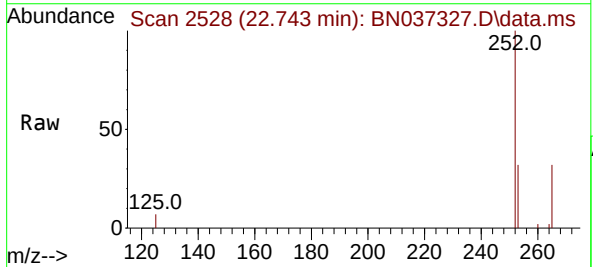
RT: 22.743 min Scan# 2528

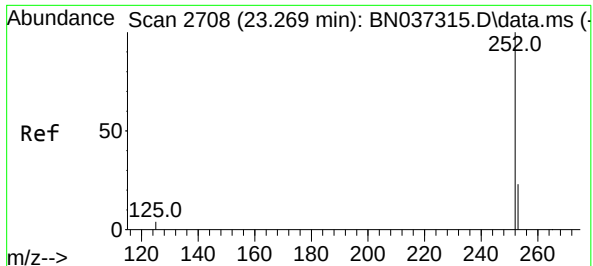
Delta R.T. -0.012 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

Tgt Ion:	252	Resp:	4103
Ion Ratio	Lower	Upper	
252	100		
253	31.9	26.7	40.1
125	7.1	6.5	9.7





#39

Benzo(a)pyrene

Concen: 0.450 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

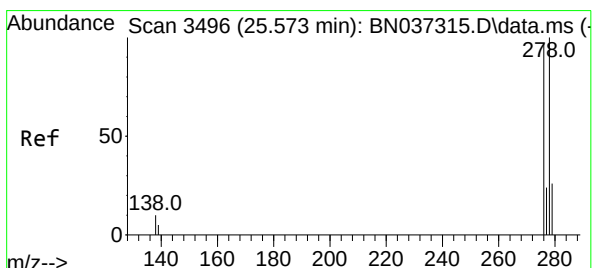
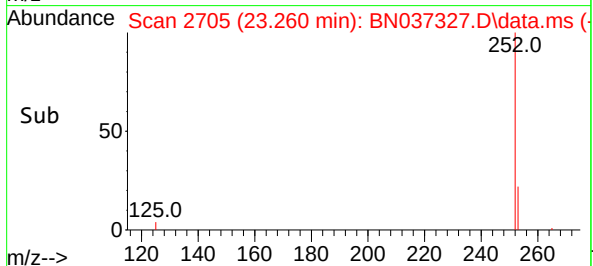
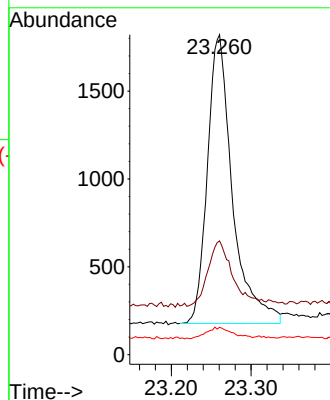
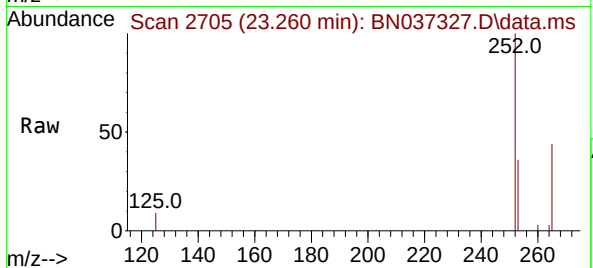
Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD

Tgt Ion:	252	Resp:	359
Ion Ratio	Lower	Upper	
252	100		
253	35.5	31.6	47.4
125	8.5	8.4	12.6

Manual Integrations
APPROVEDReviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025

#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

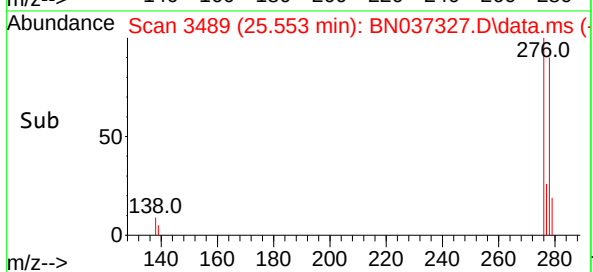
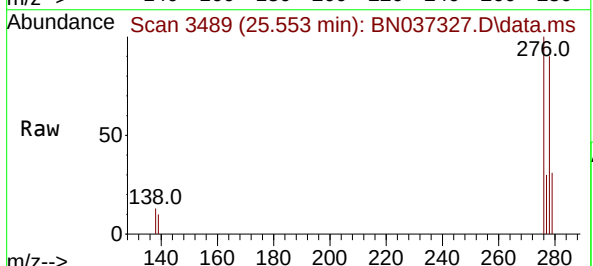
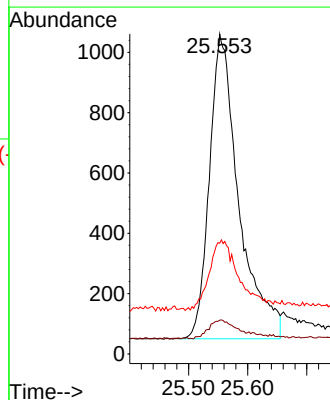
RT: 25.553 min Scan# 3489

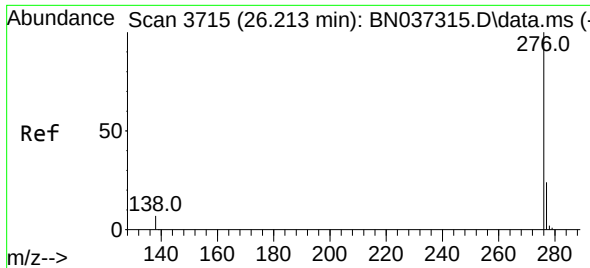
Delta R.T. -0.020 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

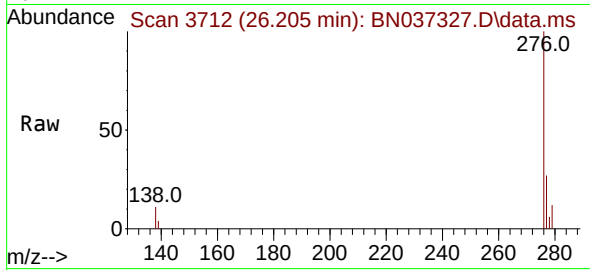
Tgt Ion:	278	Resp:	3494
Ion Ratio	Lower	Upper	
278	100		
139	10.6	10.2	15.4
279	34.6	35.6	53.4#





#41
Benzo(g,h,i)perylene
Concen: 0.430 ng
RT: 26.205 min Scan# 31
Delta R.T. -0.009 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

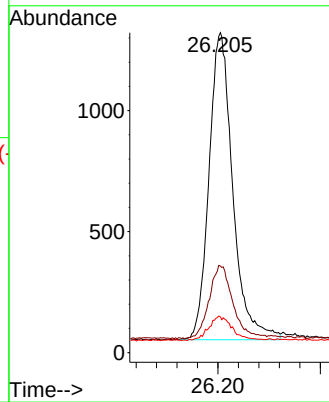
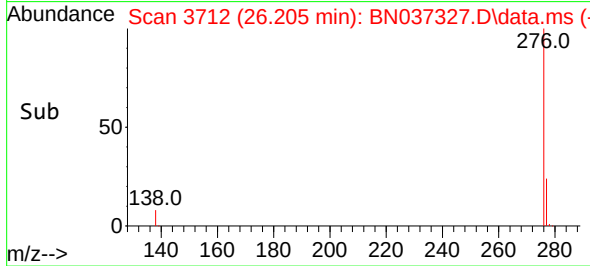
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD



Tgt Ion: 276 Resp: 409
Ion Ratio Lower Upper
276 100
277 27.1 22.7 34.1
138 11.2 9.4 14.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 06/19/2025
Supervised By :mohammad ahmed 06/23/2025



Manual Integration Report

Sequence:	BN061925	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037313.D	2,4,6-Tribromophenol	anahy	6/19/2025 9:20:16 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
SSTDICC0.1	BN037313.D	bis(2-Chloroethyl)ether	anahy	6/19/2025 9:20:16 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
SSTDICC0.1	BN037313.D	Dibenzo(a,h)anthracene	anahy	6/19/2025 9:20:16 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
SSTDICC0.1	BN037313.D	Nitrobenzene-d5	anahy	6/19/2025 9:20:16 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
SSTDICC0.2	BN037314.D	4,6-Dinitro-2-methylphenol	anahy	6/19/2025 9:21:04 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
SSTDICC0.2	BN037314.D	Dibenzo(a,h)anthracene	anahy	6/19/2025 9:21:04 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
Q2329-10	BN037325.D	Anthracene	anahy	6/19/2025 9:21:50 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
Q2329-11MS	BN037326.D	2-Methylnaphthalene-d10	Rahul	6/19/2025 4:49:55 PM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
Q2329-12MSD	BN037327.D	2-Methylnaphthalene-d10	anahy	6/19/2025 9:24:53 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
Q2329-02	BN037329.D	1,4-Dioxane	anahy	6/19/2025 9:25:40 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software
PB168508BS	BN037337.D	2-Methylnaphthalene-d10	anahy	6/19/2025 9:27:13 AM	mohammad	6/23/2025 8:01:24 AM	Peak Integrated by Software

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061925

Review By	Rahul	Review On	6/19/2025 11:57:42 AM
Supervise By	mohammad	Supervise On	6/23/2025 8:01:24 AM
SubDirectory	BN061925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061925
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	BN037312.D	18 Jun 2025 13:27	RC/JU	Ok
2	SSTDIC0.1	BN037313.D	18 Jun 2025 14:06	RC/JU	Ok,M
3	SSTDIC0.2	BN037314.D	18 Jun 2025 14:42	RC/JU	Ok,M
4	SSTDIC0.4	BN037315.D	18 Jun 2025 15:18	RC/JU	Ok
5	SSTDIC0.8	BN037316.D	18 Jun 2025 15:55	RC/JU	Ok
6	SSTDIC1.6	BN037317.D	18 Jun 2025 16:31	RC/JU	Ok
7	SSTDIC3.2	BN037318.D	18 Jun 2025 17:07	RC/JU	Ok
8	SSTDIC5.0	BN037319.D	18 Jun 2025 17:43	RC/JU	Ok
9	SSTDICV0.4	BN037320.D	18 Jun 2025 18:19	RC/JU	Ok
10	PB168508BL	BN037321.D	18 Jun 2025 19:32	RC/JU	Not Ok
11	DFTPP	BN037322.D	18 Jun 2025 20:47	RC/JU	Ok
12	SSTDIC0.4	BN037323.D	18 Jun 2025 21:26	RC/JU	Ok
13	PB168508BL	BN037324.D	18 Jun 2025 22:02	RC/JU	Ok
14	Q2329-10	BN037325.D	18 Jun 2025 22:39	RC/JU	Ok,M
15	Q2329-11MS	BN037326.D	18 Jun 2025 23:15	RC/JU	Ok,M
16	Q2329-12MSD	BN037327.D	18 Jun 2025 23:52	RC/JU	Ok,M
17	Q2329-01	BN037328.D	19 Jun 2025 00:28	RC/JU	Ok
18	Q2329-02	BN037329.D	19 Jun 2025 01:04	RC/JU	Ok,M
19	Q2329-03	BN037330.D	19 Jun 2025 01:41	RC/JU	Ok
20	Q2329-04	BN037331.D	19 Jun 2025 02:17	RC/JU	Ok
21	Q2329-05	BN037332.D	19 Jun 2025 02:53	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN061925

Review By	Rahul	Review On	6/19/2025 11:57:42 AM
Supervise By	mohammad	Supervise On	6/23/2025 8:01:24 AM
SubDirectory	BN061925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn061925
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2329-09	BN037333.D	19 Jun 2025 03:29	RC/JU	Ok
23	Q2329-14	BN037334.D	19 Jun 2025 04:05	RC/JU	Ok
24	Q2329-15	BN037335.D	19 Jun 2025 04:42	RC/JU	Ok
25	Q2329-18	BN037336.D	19 Jun 2025 05:18	RC/JU	Ok
26	PB168508BS	BN037337.D	19 Jun 2025 05:54	RC/JU	Ok,M
27	SSTDCCC0.4	BN037338.D	19 Jun 2025 07:06	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061925

Review By	Rahul	Review On	6/19/2025 11:57:42 AM
Supervise By	mohammad	Supervise On	6/23/2025 8:01:24 AM
SubDirectory	BN061925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061925

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

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037312.D	18 Jun 2025 13:27		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037313.D	18 Jun 2025 14:06		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN037314.D	18 Jun 2025 14:42		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN037315.D	18 Jun 2025 15:18		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037316.D	18 Jun 2025 15:55		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037317.D	18 Jun 2025 16:31		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037318.D	18 Jun 2025 17:07		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037319.D	18 Jun 2025 17:43		RC/JU	Ok
9	SSTDICV0.4	ICVBN061925	BN037320.D	18 Jun 2025 18:19		RC/JU	Ok
10	PB168508BL	PB168508BL	BN037321.D	18 Jun 2025 19:32	Analyzed for contamination check	RC/JU	Not Ok
11	DFTPP	DFTPP	BN037322.D	18 Jun 2025 20:47		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN037323.D	18 Jun 2025 21:26		RC/JU	Ok
13	PB168508BL	PB168508BL	BN037324.D	18 Jun 2025 22:02		RC/JU	Ok
14	Q2329-10	TT172S1-20250613	BN037325.D	18 Jun 2025 22:39		RC/JU	Ok,M
15	Q2329-11MS	TT172S1-20250613MS	BN037326.D	18 Jun 2025 23:15		RC/JU	Ok,M
16	Q2329-12MSD	TT172S1-20250613MS	BN037327.D	18 Jun 2025 23:52		RC/JU	Ok,M
17	Q2329-01	TT192D1-20250611	BN037328.D	19 Jun 2025 00:28		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN061925

Review By	Rahul	Review On	6/19/2025 11:57:42 AM
Supervise By	mohammad	Supervise On	6/23/2025 8:01:24 AM
SubDirectory	BN061925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn061925
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	Q2329-02	TT188S1-20250612	BN037329.D	19 Jun 2025 01:04		RC/JU	Ok,M
19	Q2329-03	TT119S1-20250612	BN037330.D	19 Jun 2025 01:41		RC/JU	Ok
20	Q2329-04	FB01-20250613	BN037331.D	19 Jun 2025 02:17		RC/JU	Ok
21	Q2329-05	TT162S1-20250613	BN037332.D	19 Jun 2025 02:53		RC/JU	Ok
22	Q2329-09	TT149S1-20250613	BN037333.D	19 Jun 2025 03:29		RC/JU	Ok
23	Q2329-14	DUP04-20250613	BN037334.D	19 Jun 2025 04:05		RC/JU	Ok
24	Q2329-15	EB01-20250613	BN037335.D	19 Jun 2025 04:42		RC/JU	Ok
25	Q2329-18	TT163S1-20250613	BN037336.D	19 Jun 2025 05:18		RC/JU	Ok
26	PB168508BS	PB168508BS	BN037337.D	19 Jun 2025 05:54		RC/JU	Ok,M
27	SSTDCCC0.4	SSTDCCC0.4EC	BN037338.D	19 Jun 2025 07:06		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	06/17/2025
Matrix :	Water	Extraction Start Time :	08:55
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RJ
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3880	Hood ID:	4,5,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continuous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Extraction End Date :	06/17/2025
		Extraction End Time :	13:55
		Concentration By:	EH
		Supervisor By :	RUPESH

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	SP6758
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3943
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

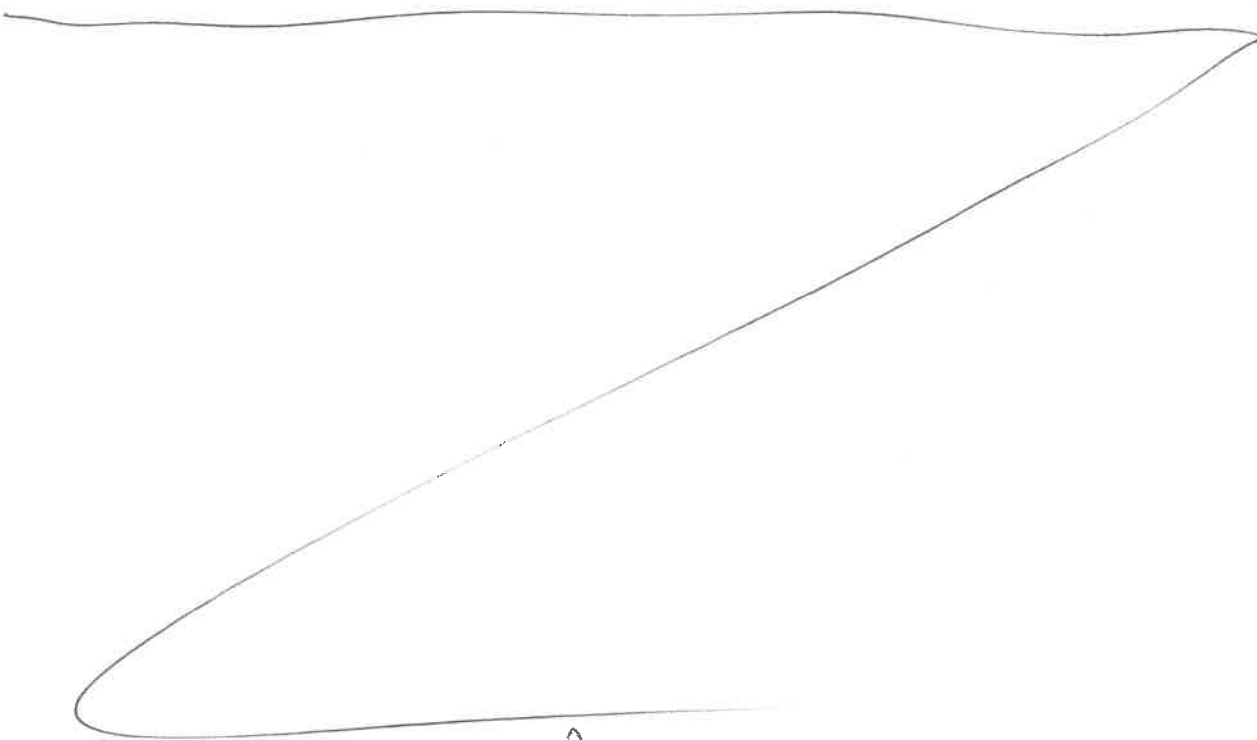
KD Bath ID:	WATER BATH-1,2	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/17/25	RP (Ext 205)	Relsvoc
14:00	Preparation Group	Analysis Group

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

Concentration Date: 06/17/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168508BL	SBLK508	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB168508BS	SLCS508	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
Q2329-01	TT192D2-20250611	SVOC-SIMGrou p1	910	6	RUPESH	ritesh	1	C		3
Q2329-02	TT188S1-20250612	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		4
Q2329-03	TT119S1-20250612	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	C		5
Q2329-04	FB01-20250613	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	C		6
Q2329-05	TT162S1-20250613	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		7
Q2329-09	TT149S1-20250613	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		8
Q2329-10	TT172S1-20250613	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	C		9
Q2329-11	Q2329-10MS	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	C		10
Q2329-12	Q2329-10MSD	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		11
Q2329-14	DUP04-20250613	SVOC-SIMGrou p1	950	6	RUPESH	ritesh	1	C		12
Q2329-15	EB01-20250613	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		13
Q2329-18	TT163S1-20250613	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	C		14



* Extracts relinquished on the same date as received.

6/17/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2329

WorkList ID : 190235

Department : Extraction

Date : 06-17-2025 08:53:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2329-01	TT192D2-20250611	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/11/2025	8270-Modified
Q2329-02	TT188S1-20250612	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/12/2025	8270-Modified
Q2329-03	TT119S1-20250612	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/12/2025	8270-Modified
Q2329-04	FB01-20250613	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-05	TT162S1-20250613	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-09	TT149S1-20250613	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-10	TT172S1-20250613	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-11	Q2329-10MS	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-12	Q2329-10MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-14	DUP04-20250613	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-15	EB01-20250613	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified
Q2329-18	TT163S1-20250613	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/13/2025	8270-Modified

Date/Time 06/17/25 8:54
 Raw Sample Received by: RJ (Ext 245)
 Raw Sample Relinquished by: AP 8

Q2329-SVOC-SIMGroup1

Date/Time 06/17/25 9:20
 Raw Sample Received by: AP 8
 Raw Sample Relinquished by: RJ (Ext 445)
 476 of 685

Prep Standard - Chemical Standard Summary

Order ID : Q2329
Test : SVOC-SIMGroup1
Prepbatch ID : PB168508,
Sequence ID/Qc Batch ID: BN061925,

Standard ID :
EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3943,M6157,S10104,S 11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2620	05/30/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/30/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	SP6740	02/13/2025	07/30/2025	Rahul Chavli	None	None	Yogesh Patel 02/28/2025

FROM 0.10000ml of S12651 + 4.90000ml of E3874 = Final Quantity: 5.000 ml

SVOC STANDARD PREPARATION LOG

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

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
04/01/2025								

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6758	04/03/2025	07/24/2025	Rahul Chavli	None	None	mohammad ahmed
								04/07/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
								04/16/2025

FROM 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 +
0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
FROM 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = Final Quantity: 1.010 ml

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

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

SVOC STANDARD PREPARATION LOG

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

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

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

SVOC STANDARD PREPARATION LOG

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

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
FROM 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	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 / RUPESH	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/26/2025	03/26/2025 / Rajesh	03/19/2025 / RUPESH	E3915

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	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	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

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



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.

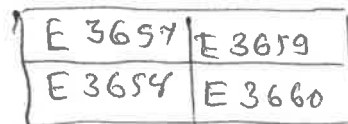
This document has been electronically produced and is valid without a signature.

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)

Avantor

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 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

 avantor

Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titration Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3926

J. Croak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01%

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MB

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** 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:

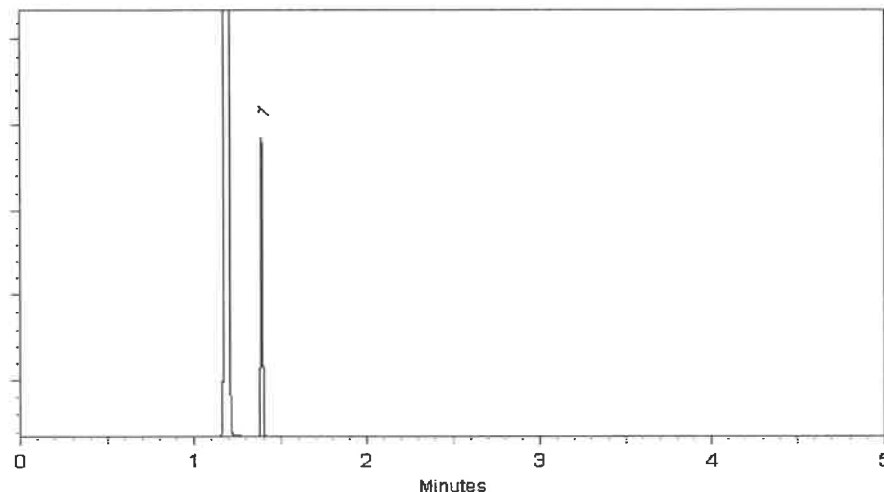
FID

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.



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. : 33913 **Lot No.:** A0201976

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

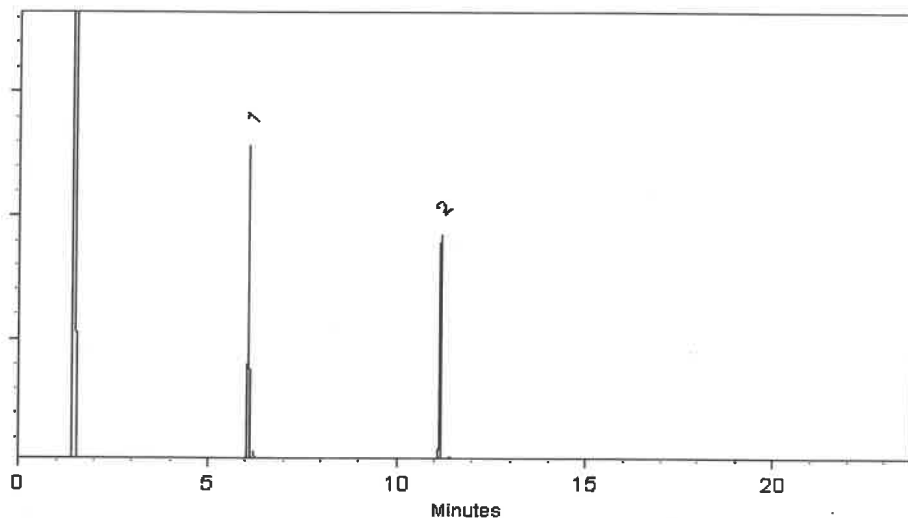
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

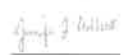


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(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-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.



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. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

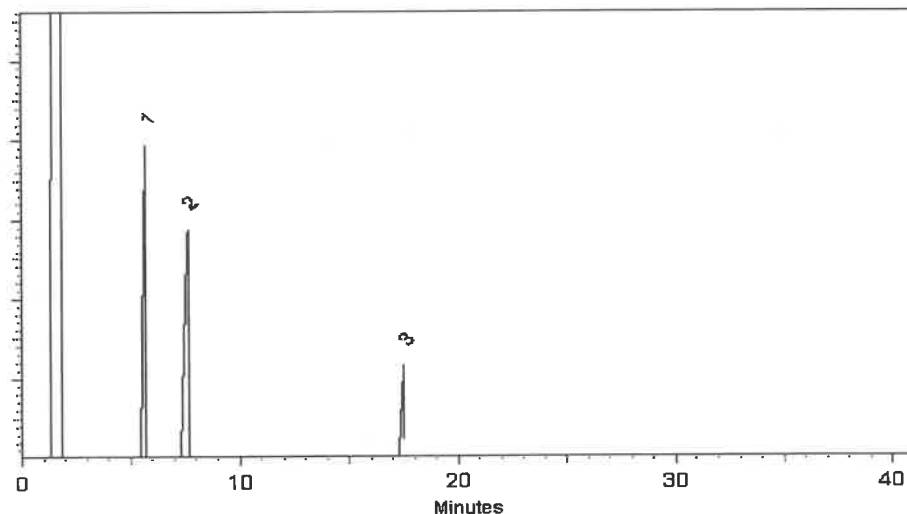
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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. : 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:

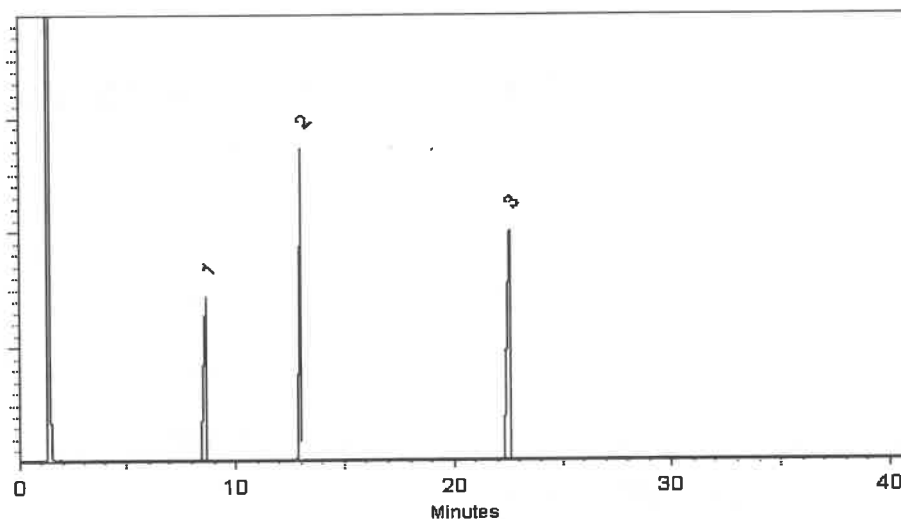
FID

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: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1
Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 } RC/
↓
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

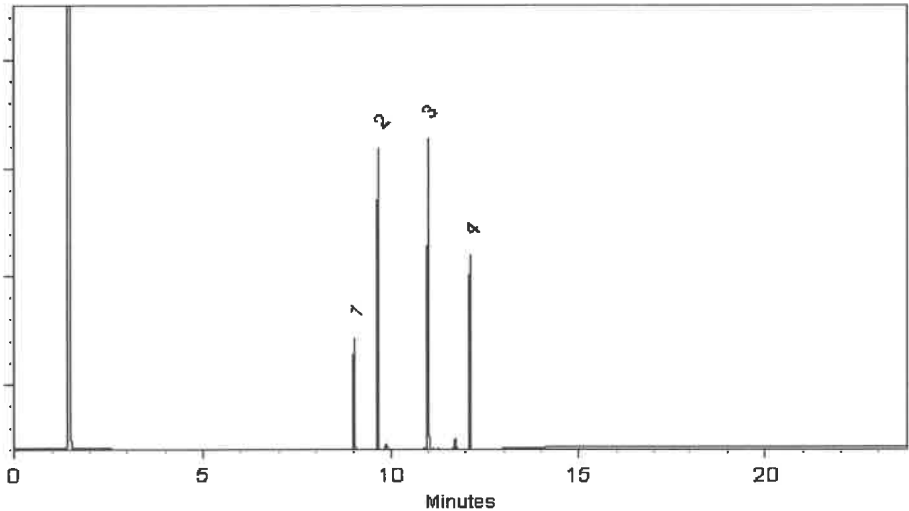
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

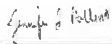
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

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

CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:
COMPANY: Resolution Consultants
ADDRESS:
CITY STATE: ZIP:
ATTENTION: Eleanor Vivadon
PHONE: FAX:

PROJECT NAME: NWIRP BETHPAGE
PROJECT NO.: 6073187 LOCATION: BETHPAGE
PROJECT MANAGER: Eleanor Vivadon
e-mail: Eleanor.Vivadon@acorn.com
PHONE: FAX:

BILL TO: Eleanor V. PO#:
ADDRESS: 27 Ellis Place
CITY OSSINING STATE: NY ZIP: 10563
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): Standard DAYS*
EDD: Standard DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ 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

VOCs 8260
1,4 dioxane 8270
3,4 dioxane 522

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A	F	F								
1.	TT192D1-20250611	GW		X	06/11/25	1450	3	2	1									
2.	TT188S1-20250612	GW		X	06/18/25	1005	3	2	1									
3.	TT198S1-20250612	GW		X	↓	1140	3	2	1									
4.	FB01-20250613	AQ		X	06/13/25	1025	3	2	1								field blank	
5.	TT162S1-20250613	GW		X		1005	3	2	1									
6.	BPOW6-7-20250613	GW		X		0930	4	2		2								
7.	BPOW6-8-20250613	GW		X		0955	4	2		2								
8.	BPOW6-11-20250613	GW		X		0950	4	2		2								
9.	TT149S1-20250613	GW		X		1130	3	2	1									
10.	TT172S1-20250613	GW		X	✓	1140	9	6	3								MS/MSD	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1400	RECEIVED BY:	1400	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3 °C
1. <i>mom's Acids</i>	6-13-25	1. <i>[Signature]</i>	6-13-25	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
2.		2.		
RELINQUISHED BY SAMPLER:	DATE/TIME: 1855	RECEIVED BY:		Page 1 of 2
3. <i>[Signature]</i>	6-13-25	3.		CLIENT: ☐ Hand Delivered ☐ Other
				Shipment Complete ☐ YES ☐ NO



284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.

QUOTE NO.

COC Number

Q23291
2046496 Q2330

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: Eleanor Vivian

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE

PROJECT NO.: 60731872 LOCATION: BETHPAGE

PROJECT MANAGER: Eleanor Vivian

e-mail: Eleanor.Vivian@ecom.com

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V.

PO#:

ADDRESS: 27 Ellis Place

CITY: OSSINING STATE: NY ZIP: 10563

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) DAYS*

HARDCOPY (DATA PACKAGE): Standard DAYS*

EDD: Standard DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

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. was 8260
1/4 diatom 8270
1/4 diatom 522

PRESERVATIVES

COMMENTS

← Specify Preservatives

A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	F	F							
1.	DUPO3-20250613	GW		X	06/13	1400	4	2		2							
2.	DUPO4-20250613	GW		X	06/13	1300	3	2	1								
3.	EB01-20250613	AQ		X	06/13	1250	3	2	1								equipment blank
4.	TB01-20250612	AQ		X	06/12	1300	2	2									trip blank
5.	TB02-20250612	AQ		X	06/12	1305	2	2									trip blank
6.	TT16351-20250613	GW		X	06/13	1130	3	2	1								
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1400	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.5 °C
1. [Signature]	6-13-25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1855	RECEIVED BY:	
3. [Signature]	6-13-25	3.	

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2329 AECO15

Order Date : 6/13/2025 2:09:00 PM

Project Mgr :

Client Name : AECOM Technical Services

Project Name : NAVFAC NWIRP Bethpage

Report Type : ~~Results Only~~ NYS ASPB

Client Contact : Eleanor Vivadou

Receive DateTime : 6/13/2025 12:00:00 AM

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2329-01	TT192D1-20250611 OA	Water	06/13/2025	14:50					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-02	TT188S1-20250612	Water	06/13/2025	10:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-03	TT119S1-20250612	Water	06/13/2025	11:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-04	FB01-20250613	Water	06/13/2025	10:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-05	TT162S1-20250613	Water	06/13/2025	10:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-06	BPOW6-7-20250613	Water	06/13/2025	09:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-07	BPOW6-8-20250613	Water	06/13/2025	09:55					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-08	BPOW6-11-20250613	Water	06/13/2025	09:50					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2329 AECO15

Order Date : 6/13/2025 2:09:00 PM

Project Mgr :

Client Name : AECOM Technical Services

Project Name : NAVFAC NWIRP Bethpage

Report Type : Results Only NYS ASP B

Client Contact : Eleanor Vivadou

Receive DateTime : 6/13/2025 12:00:00 AM

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-09	TT149S1-20250613	Water	06/13/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-10	TT172S1-20250613	Water	06/13/2025	11:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-11	Q2329-10MS	Water	06/13/2025	11:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-12	Q2329-10MSD	Water	06/13/2025	11:40					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-13	DUP03-20250613	Water	06/13/2025	14:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-14	DUP04-20250613	Water	06/13/2025	13:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-15	EB01-20250613	Water	06/13/2025	12:50					
					VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2329	AECO15	Order Date : 6/13/2025 2:09:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only
Client Contact : Eleanor Vivadou		Receive Date/Time : 6/13/2025 12:00:00 AM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order :	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2329-16	TB01-20250612	Water	06/12/2025	13:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-17	TB02-20250612	Water	06/12/2025	13:05					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2329-18	TT163S1-20250613	Water	06/13/2025	11:30					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 6/16/25 0900

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room

SAMPLES RECEIVED ON 6/16/25 @ 1855
PLACED IN SM-REF-2

9:20
RHF 4

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037313.D
 Acq On : 18 Jun 2025 14:06
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 18 18:31:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:27:59 2025
 Response via : Initial Calibration

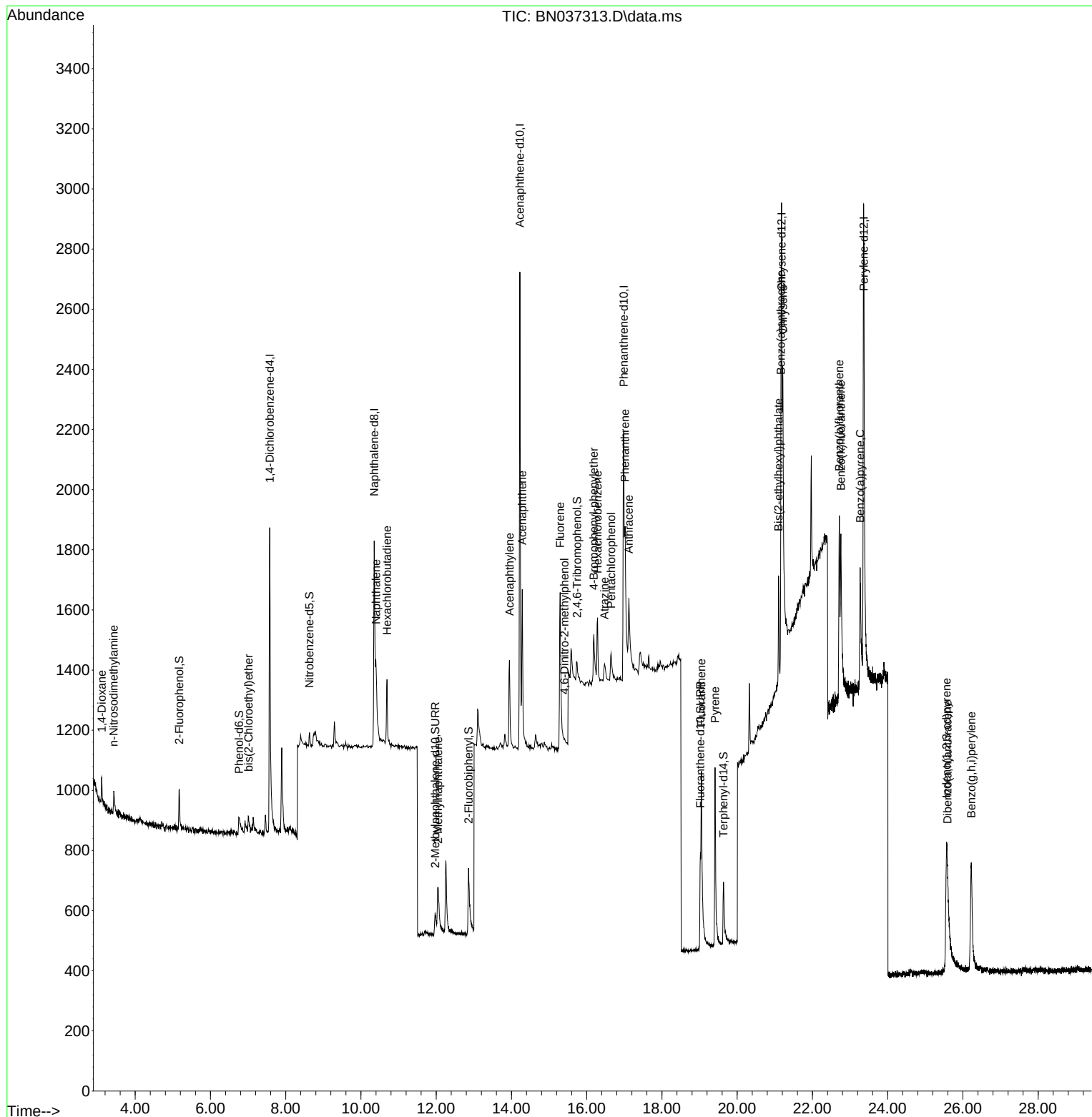
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	709	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1443	0.400	ng	# 0.00
13) Acenaphthene-d10	14.224	164	1078	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	2152	0.400	ng	# 0.01
29) Chrysene-d12	21.179	240	2320	0.400	ng	0.00
35) Perylene-d12	23.362	264	2618	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	129	0.100	ng	0.00
5) Phenol-d6	6.759	99	90	0.071	ng	0.00
8) Nitrobenzene-d5	8.632	82	60	0.051	ng	-0.10
11) 2-Methylnaphthalene-d10	11.970	152	210	0.090	ng	0.02
14) 2,4,6-Tribromophenol	15.742	330	70	0.090	ng	0.02
15) 2-Fluorobiphenyl	12.858	172	417	0.088	ng	0.01
27) Fluoranthene-d10	19.021	212	688	0.101	ng	0.00
31) Terphenyl-d14	19.635	244	481	0.090	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.111	88	78	0.123	ng	# 94
3) n-Nitrosodimethylamine	3.429	42	96	0.131	ng	# 78
6) bis(2-Chloroethyl)ether	7.011	93	48	0.044	ng	# 53
9) Naphthalene	10.404	128	369	0.099	ng	# 56
10) Hexachlorobutadiene	10.692	225	204	0.108	ng	# 99
12) 2-Methylnaphthalene	12.046	142	214	0.081	ng	# 89
16) Acenaphthylene	13.946	152	452	0.100	ng	97
17) Acenaphthene	14.288	154	297	0.099	ng	94
18) Fluorene	15.293	166	392	0.092	ng	94
20) 4,6-Dinitro-2-methylph...	15.410	198	19	0.029	ng	# 34
21) 4-Bromophenyl-phenylether	16.189	248	177	0.099	ng	# 88
22) Hexachlorobenzene	16.288	284	196	0.105	ng	95
23) Atrazine	16.475	200	133	0.095	ng	# 63
24) Pentachlorophenol	16.648	266	111	0.107	ng	96
25) Phenanthrene	17.021	178	592	0.098	ng	98
26) Anthracene	17.120	178	513	0.090	ng	97
28) Fluoranthene	19.049	202	852	0.101	ng	99
30) Pyrene	19.412	202	868	0.098	ng	99
32) Benzo(a)anthracene	21.162	228	618	0.083	ng	# 83
33) Chrysene	21.215	228	1070	0.112	ng	# 89
34) Bis(2-ethylhexyl)phtha...	21.099	149	403	0.132	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.564	276	894	0.081	ng	# 94
37) Benzo(b)fluoranthene	22.713	252	830	0.091	ng	# 60
38) Benzo(k)fluoranthene	22.754	252	935	0.093	ng	# 62
39) Benzo(a)pyrene	23.269	252	795	0.094	ng	# 53
40) Dibenzo(a,h)anthracene	25.590	278	651	0.074	ng	# 34
41) Benzo(g,h,i)perylene	26.222	276	961	0.095	ng	# 78

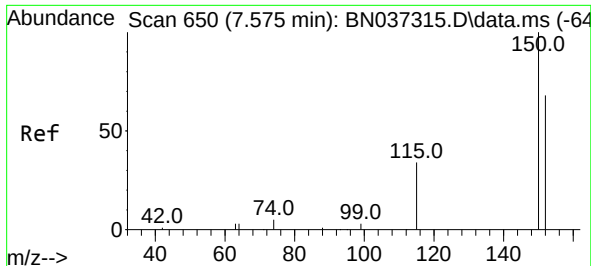
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037313.D
Acq On : 18 Jun 2025 14:06
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

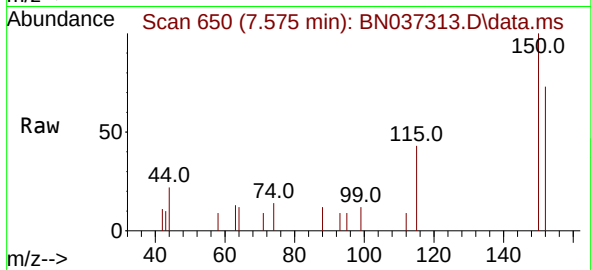
Quant Time: Jun 18 18:31:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration





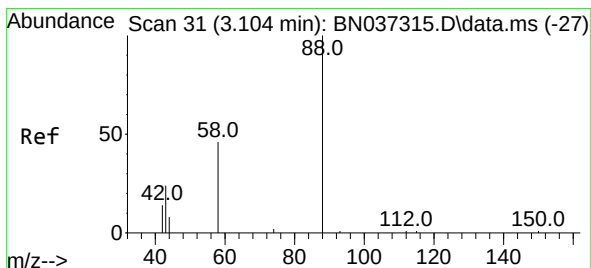
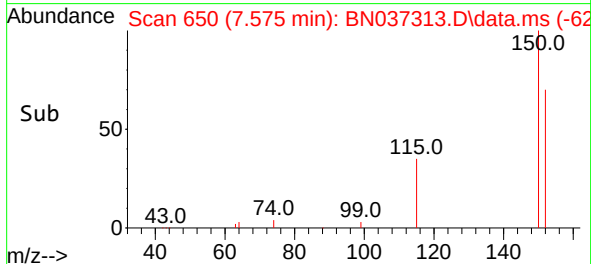
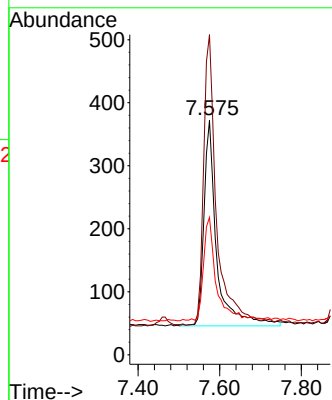
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037313.D
 Acq: 18 Jun 2025 14:06

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



Tgt Ion:152 Resp: 709

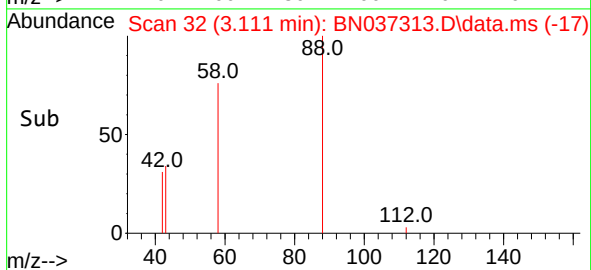
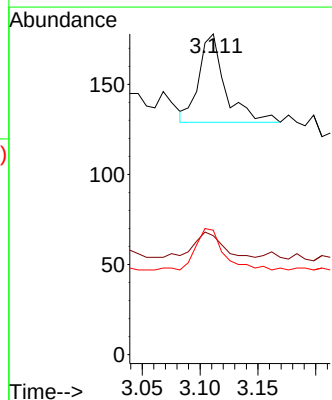
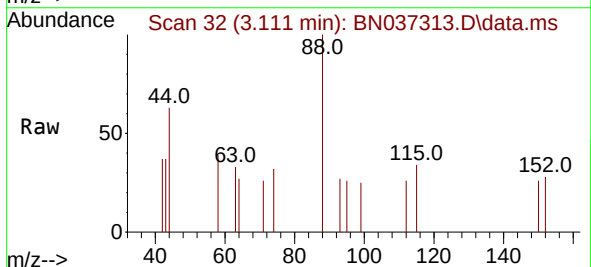
Ion	Ratio	Lower	Upper
152	100		
150	136.6	112.7	169.1
115	58.6	45.9	68.9

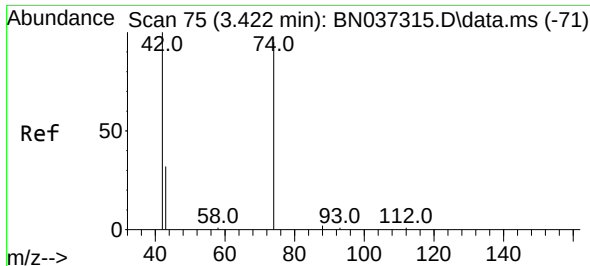


#2
 1,4-Dioxane
 Concen: 0.123 ng
 RT: 3.111 min Scan# 32
 Delta R.T. 0.007 min
 Lab File: BN037313.D
 Acq: 18 Jun 2025 14:06

Tgt Ion: 88 Resp: 78

Ion	Ratio	Lower	Upper
88	100		
43	32.1	21.0	31.6#
58	50.0	38.0	57.0

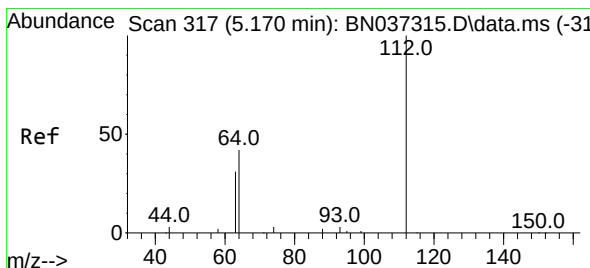
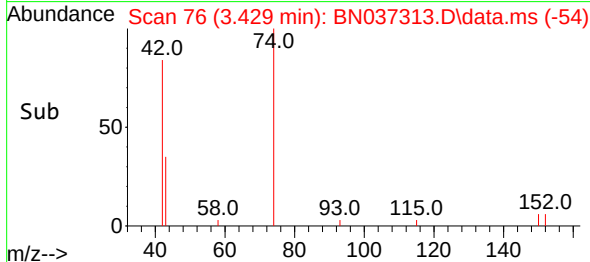
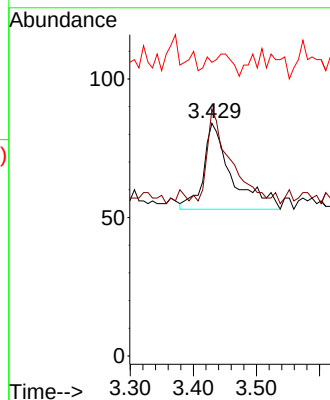
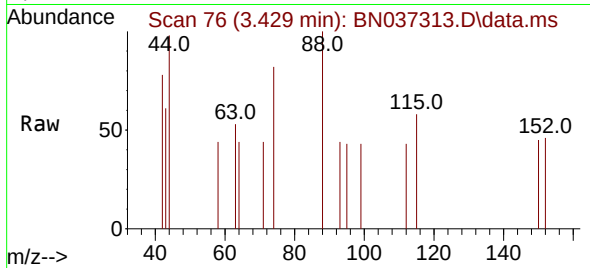




#3
 n-Nitrosodimethylamine
 Concen: 0.131 ng
 RT: 3.429 min Scan# 75
 Delta R.T. 0.007 min
 Lab File: BN037313.D
 Acq: 18 Jun 2025 14:06

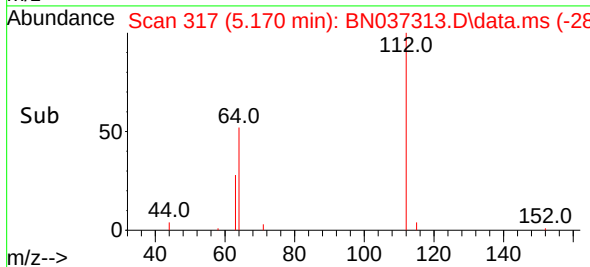
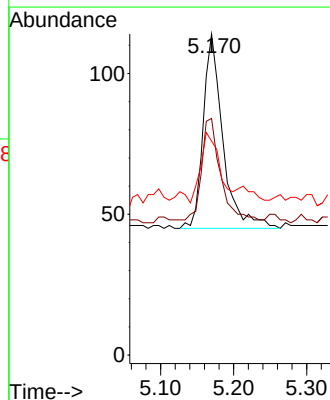
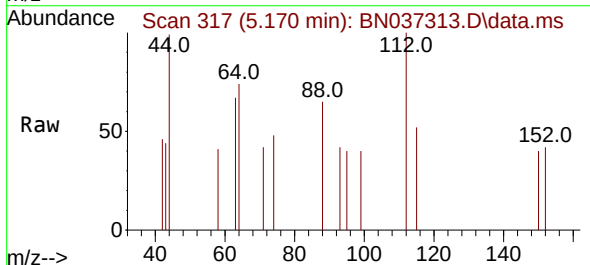
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

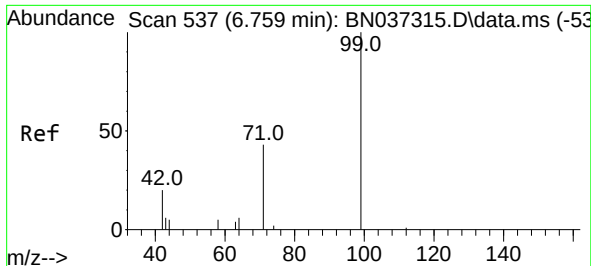
Tgt Ion: 42 Resp: 96
 Ion Ratio Lower Upper
 42 100
 74 83.3 84.3 126.5#
 44 19.8 5.0 7.4#



#4
 2-Fluorophenol
 Concen: 0.100 ng
 RT: 5.170 min Scan# 317
 Delta R.T. -0.000 min
 Lab File: BN037313.D
 Acq: 18 Jun 2025 14:06

Tgt Ion: 112 Resp: 129
 Ion Ratio Lower Upper
 112 100
 64 53.5 38.7 58.1
 63 34.1 26.4 39.6

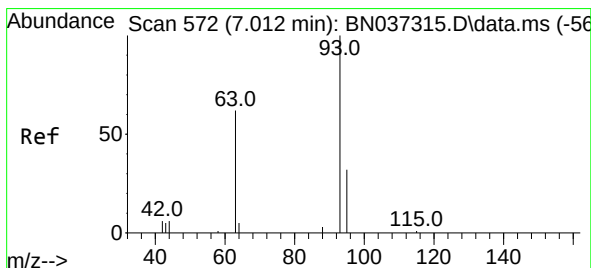
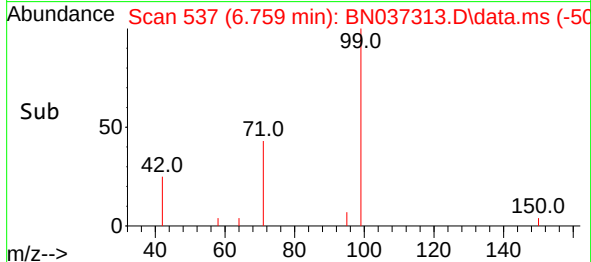
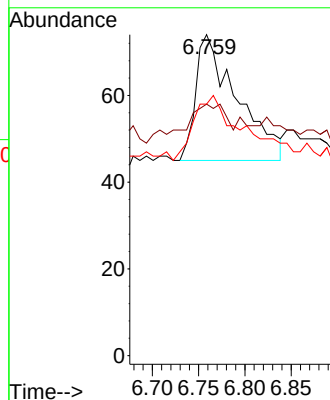
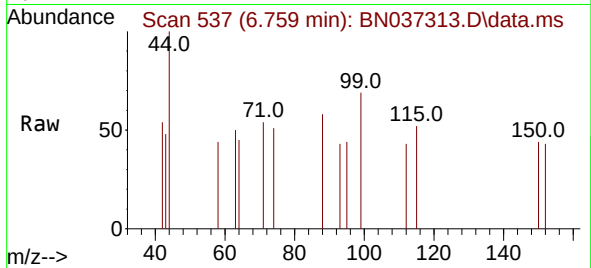




#5
Phenol-d6
Concen: 0.071 ng
RT: 6.759 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

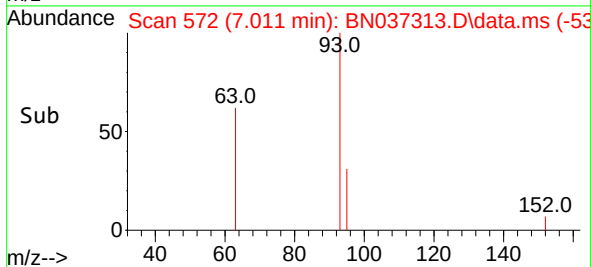
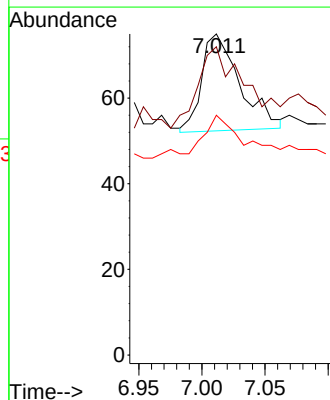
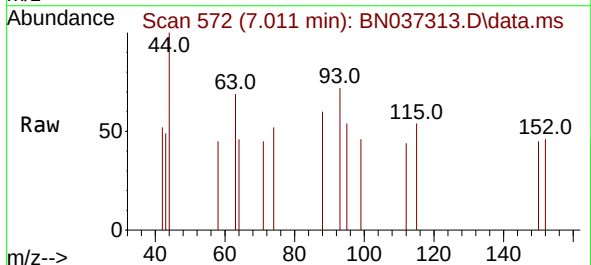
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

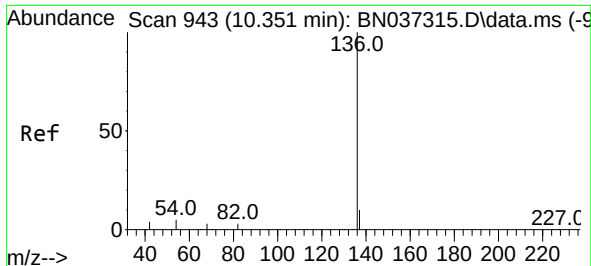
Tgt Ion: 99 Resp: 90
Ion Ratio Lower Upper
99 100
42 32.2 19.8 29.8#
71 63.3 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.044 ng
RT: 7.011 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion: 93 Resp: 48
Ion Ratio Lower Upper
93 100
63 106.3 53.2 79.8#
95 58.3 27.3 40.9#

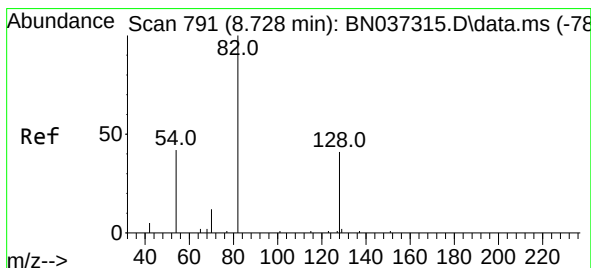
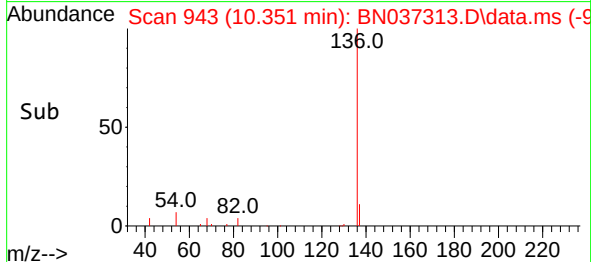
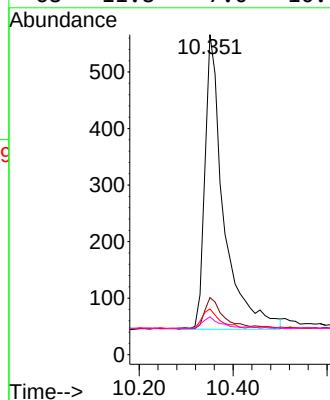
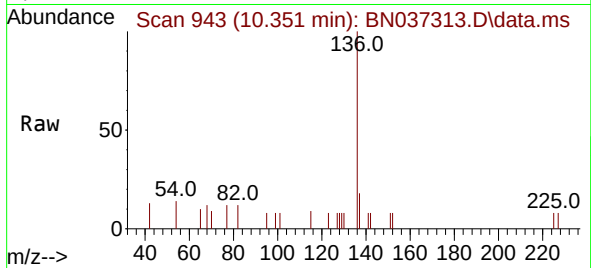




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

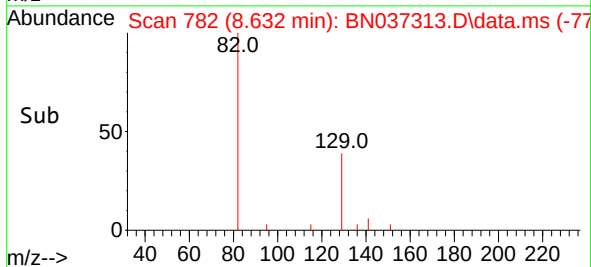
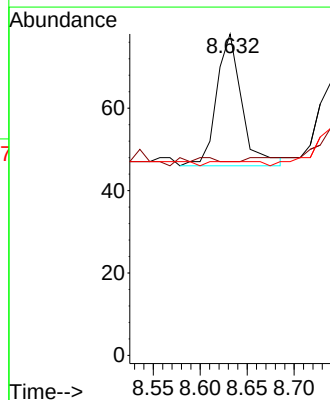
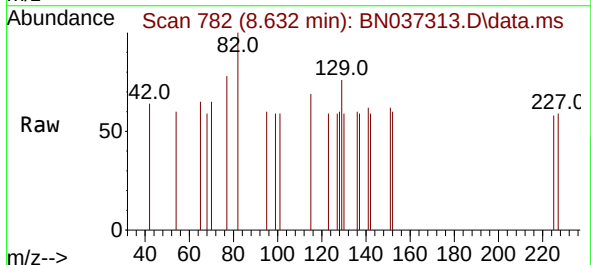
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

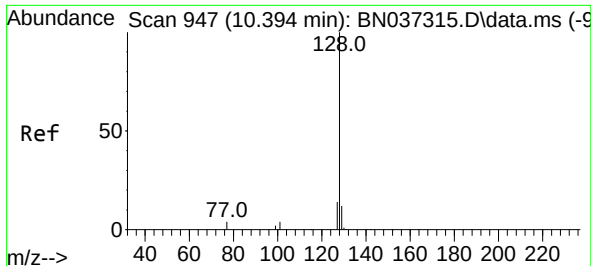
Tgt Ion:	136	Resp:	1443
Ion	Ratio	Lower	Upper
136	100		
137	17.8	12.2	18.2
54	14.3	8.8	13.2#
68	11.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.051 ng
RT: 8.632 min Scan# 782
Delta R.T. -0.096 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:	82	Resp:	60
Ion	Ratio	Lower	Upper
82	100		
128	60.3	42.5	63.7
54	60.3	43.2	64.8

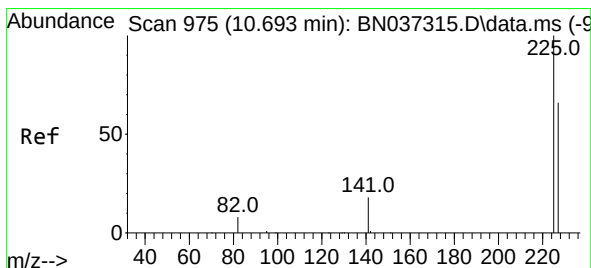
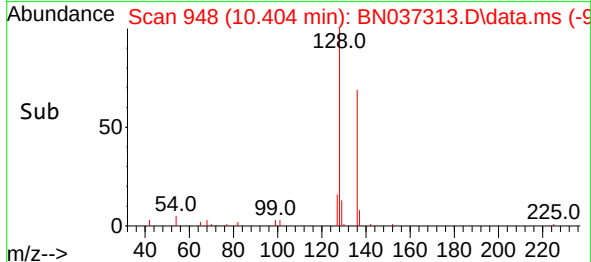
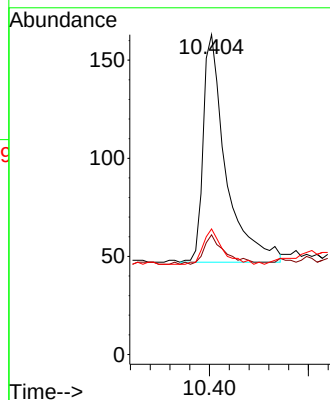
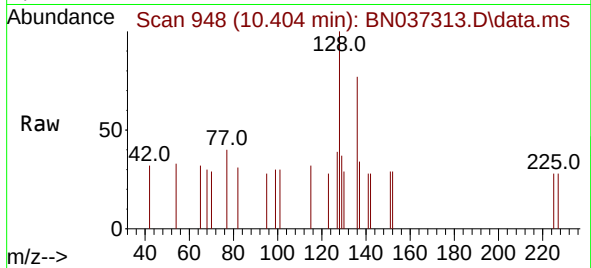




#9
Naphthalene
Concen: 0.099 ng
RT: 10.404 min Scan# 947
Delta R.T. 0.010 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

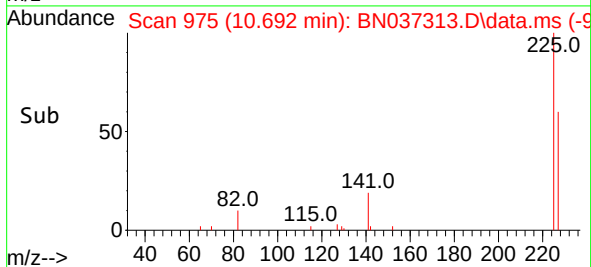
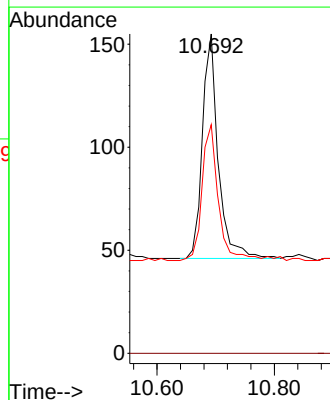
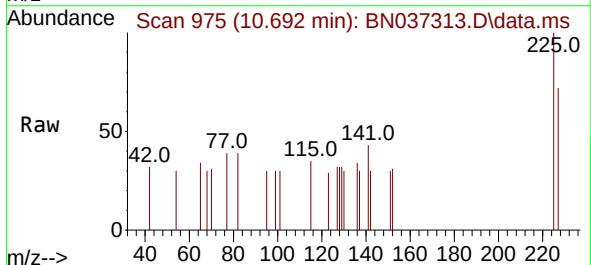
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

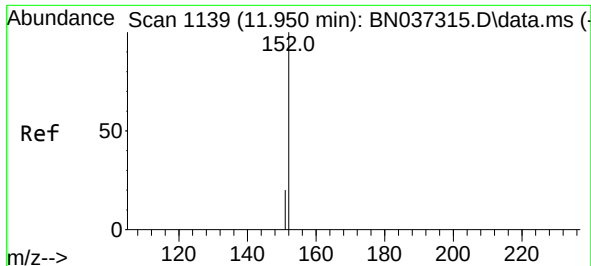
Tgt Ion:128 Resp: 369
Ion Ratio Lower Upper
128 100
129 37.4 14.0 21.0#
127 39.3 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.108 ng
RT: 10.692 min Scan# 975
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:225 Resp: 204
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.3 50.3 75.5

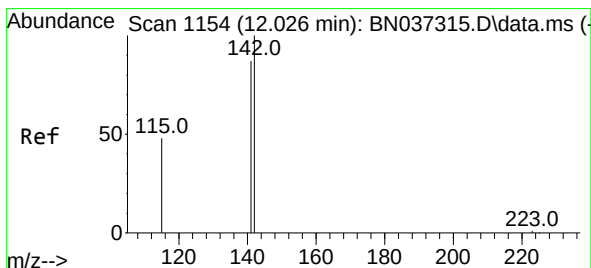
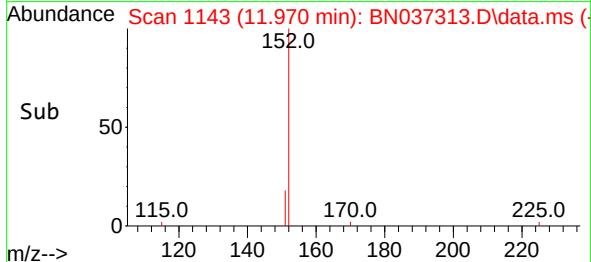
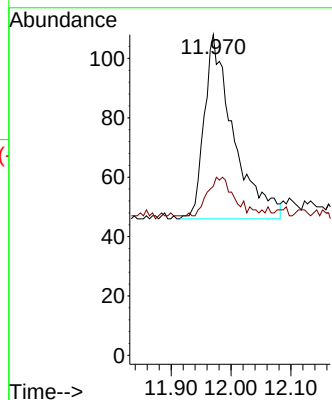
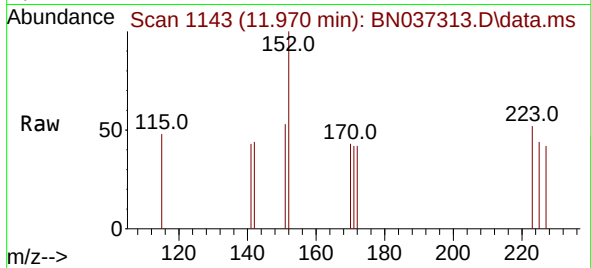




#11
2-Methylnaphthalene-d10
Concen: 0.090 ng
RT: 11.970 min Scan# 1143
Delta R.T. 0.020 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

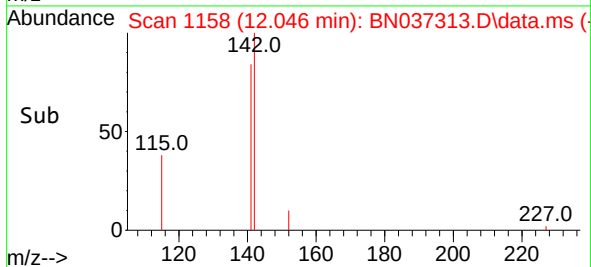
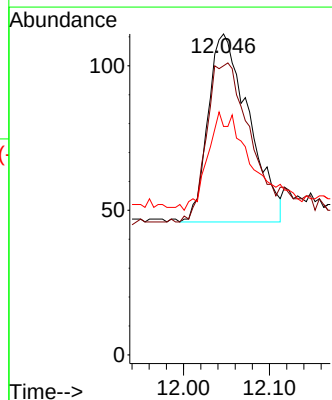
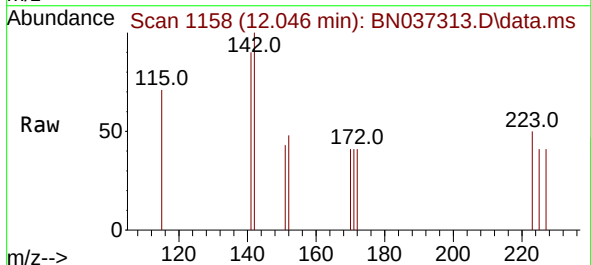
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

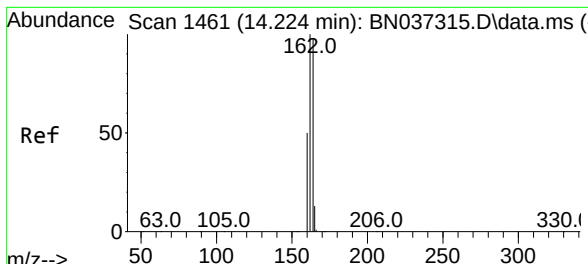
Tgt Ion:152 Resp: 210
Ion Ratio Lower Upper
152 100
151 19.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.081 ng
RT: 12.046 min Scan# 1158
Delta R.T. 0.020 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:142 Resp: 214
Ion Ratio Lower Upper
142 100
141 90.1 70.2 105.2
115 71.2 43.0 64.4#



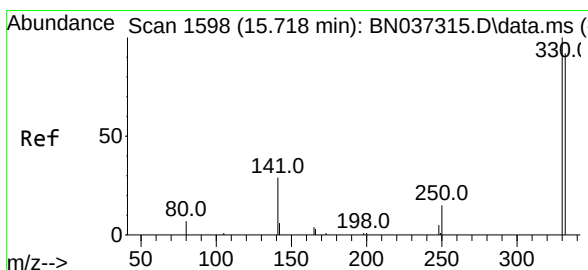
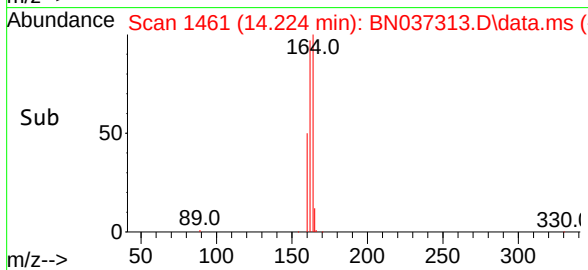
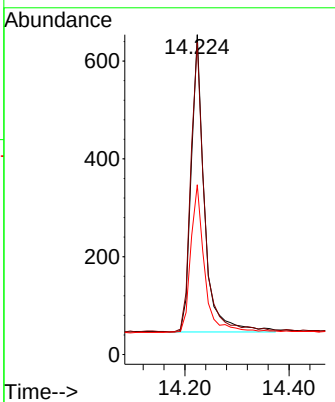
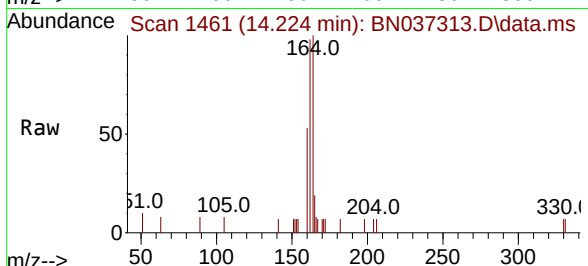


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.224 min Scan# 14
 Delta R.T. -0.000 min
 Lab File: BN037313.D
 Acq: 18 Jun 2025 14:06

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Tgt Ion:164 Resp: 1078

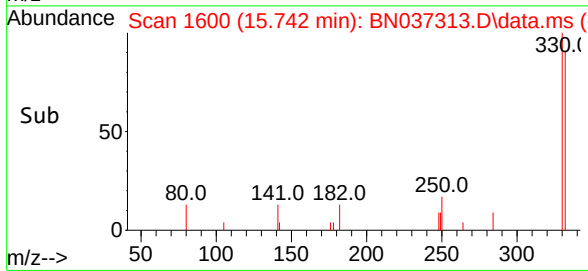
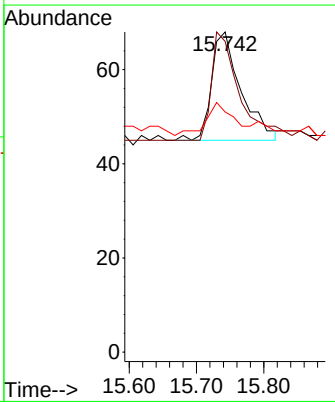
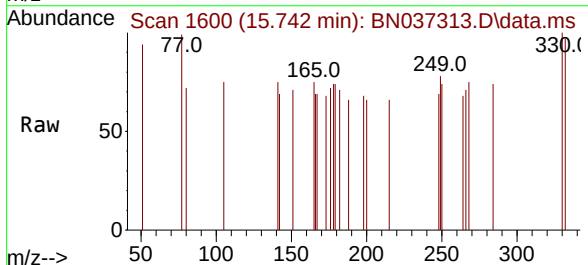
Ion	Ratio	Lower	Upper
164	100		
162	97.6	81.5	122.3
160	53.1	43.0	64.4

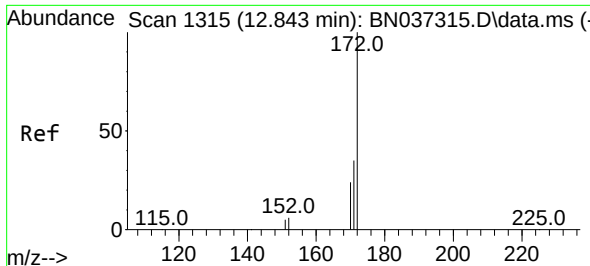


#14
 2,4,6-Tribromophenol
 Concen: 0.090 ng
 RT: 15.742 min Scan# 1600
 Delta R.T. 0.025 min
 Lab File: BN037313.D
 Acq: 18 Jun 2025 14:06

Tgt Ion:330 Resp: 70

Ion	Ratio	Lower	Upper
330	100		
332	98.6	78.4	117.6
141	28.6	24.4	36.6

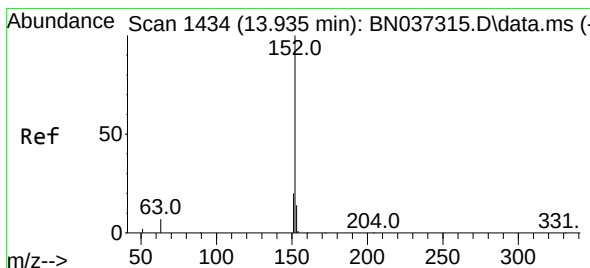
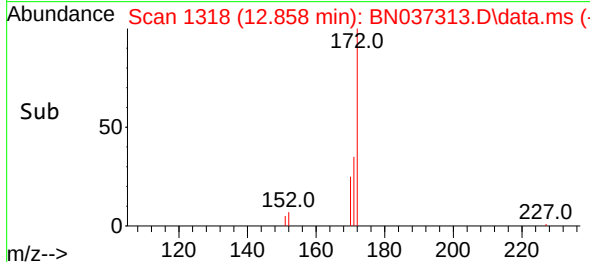
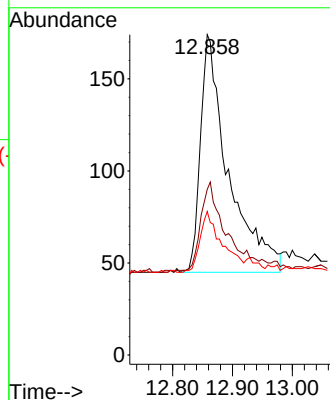
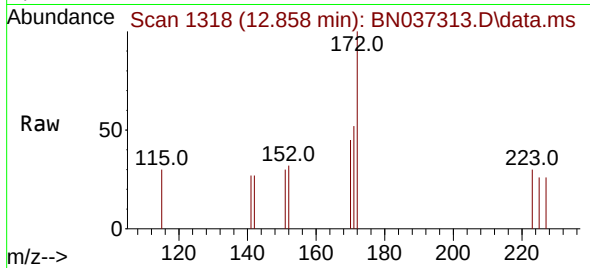




#15
2-Fluorobiphenyl
Concen: 0.088 ng
RT: 12.858 min Scan# 11
Delta R.T. 0.015 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

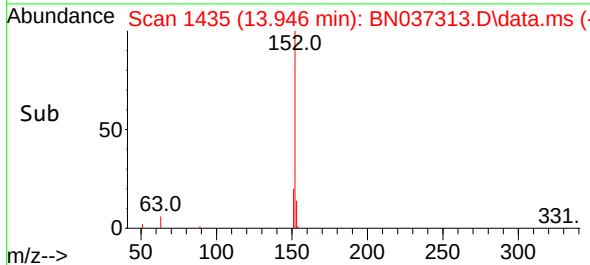
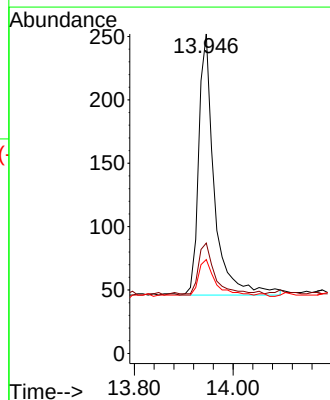
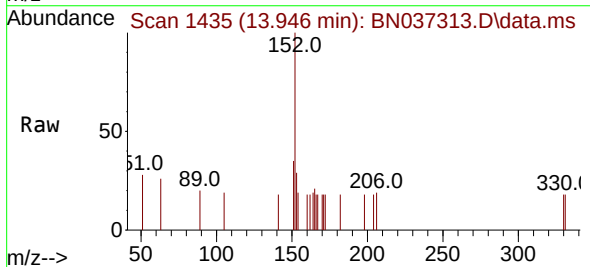
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

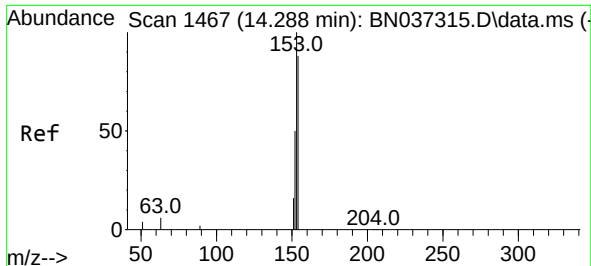
Tgt Ion:172 Resp: 417
Ion Ratio Lower Upper
172 100
171 51.7 30.8 46.2#
170 44.8 21.9 32.9#



#16
Acenaphthylene
Concen: 0.100 ng
RT: 13.946 min Scan# 1435
Delta R.T. 0.010 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:152 Resp: 452
Ion Ratio Lower Upper
152 100
151 19.2 16.6 24.8
153 13.7 10.2 15.2

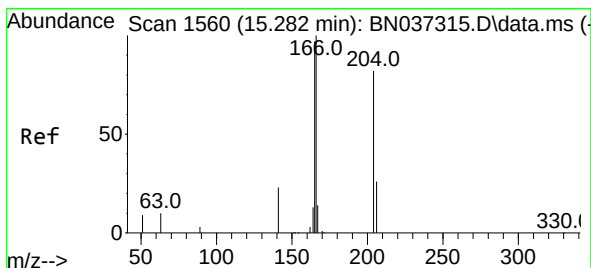
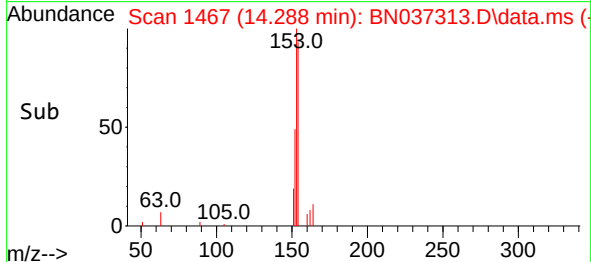
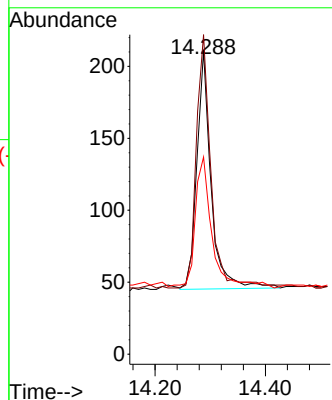
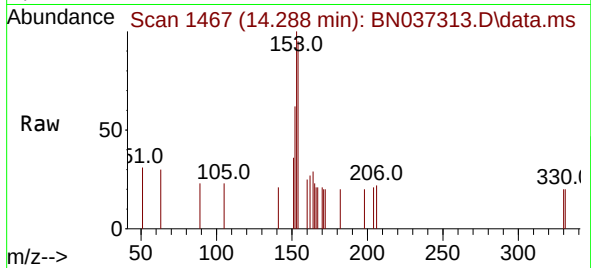




#17
Acenaphthene
Concen: 0.099 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

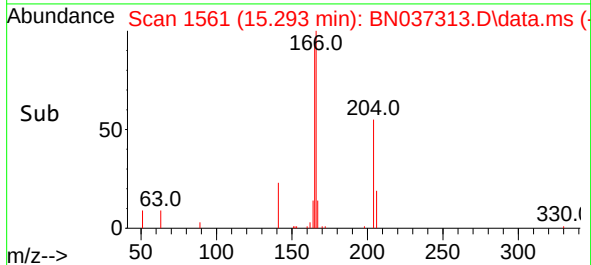
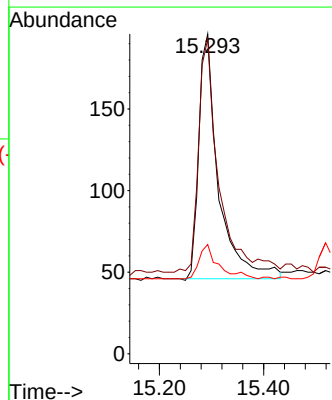
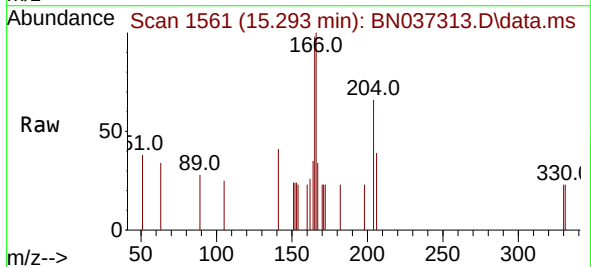
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

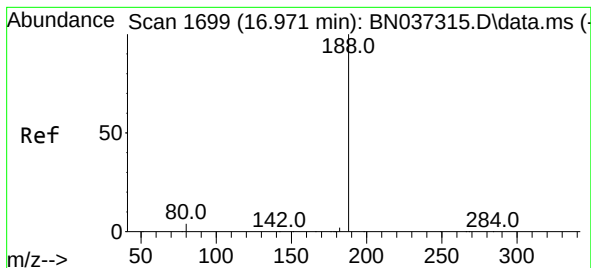
Tgt Ion:154 Resp: 297
Ion Ratio Lower Upper
154 100
153 108.4 93.1 139.7
152 64.3 48.6 73.0



#18
Fluorene
Concen: 0.092 ng
RT: 15.293 min Scan# 1561
Delta R.T. 0.010 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:166 Resp: 392
Ion Ratio Lower Upper
166 100
165 92.6 79.5 119.3
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

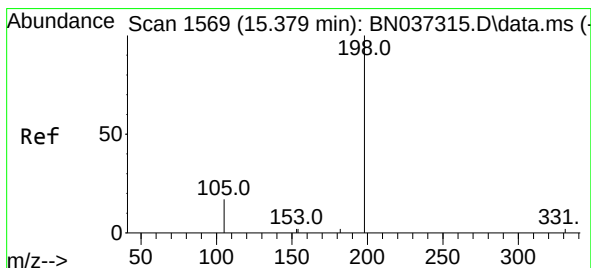
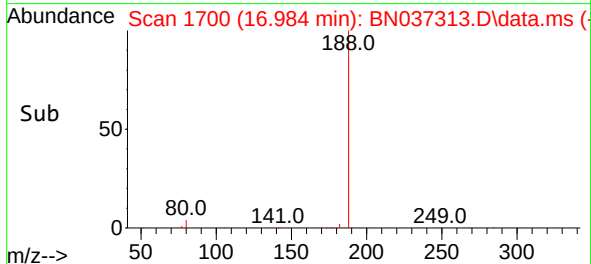
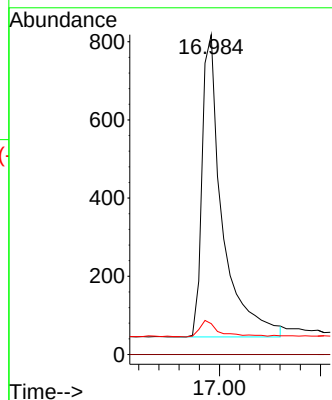
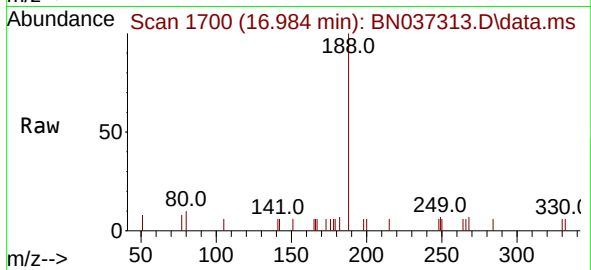
Tgt Ion:188 Resp: 2152

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.029 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.032 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

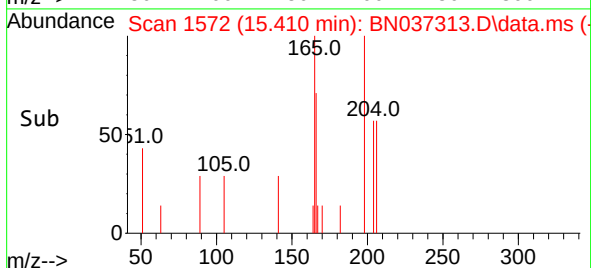
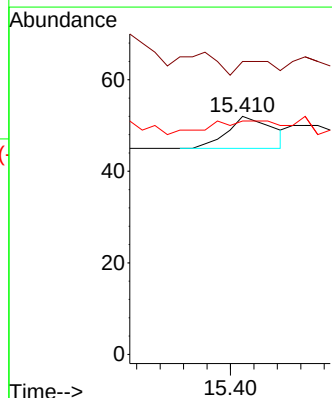
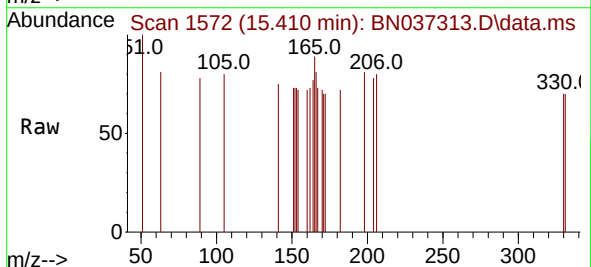
Tgt Ion:198 Resp: 19

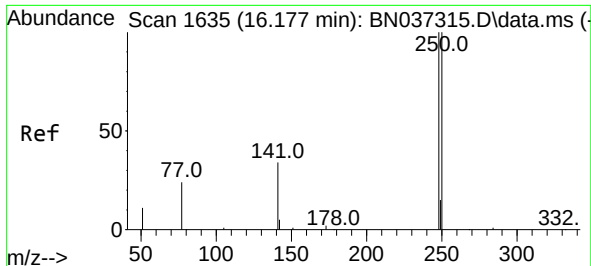
Ion Ratio Lower Upper

198 100

51 123.1 51.4 77.0#

105 98.1 45.5 68.3#

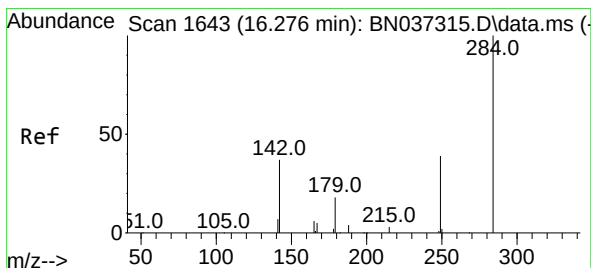
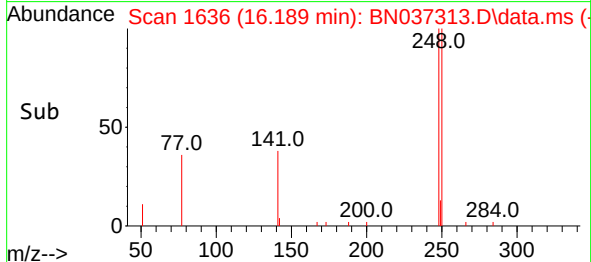
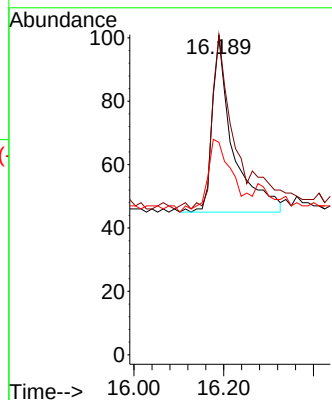
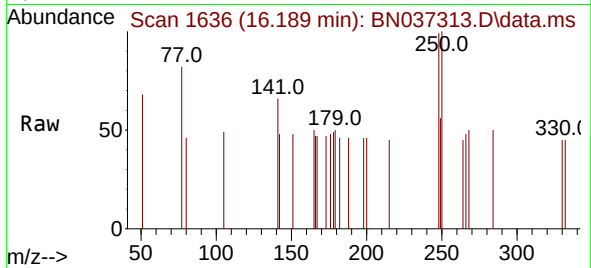




#21
4-Bromophenyl-phenylether
Concen: 0.099 ng
RT: 16.189 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

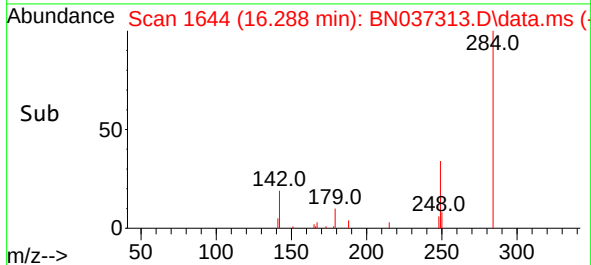
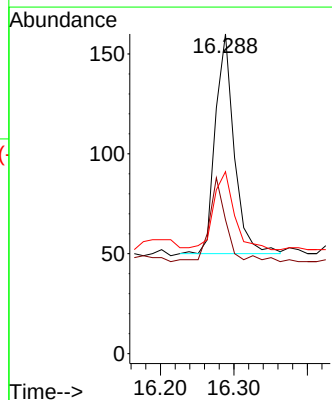
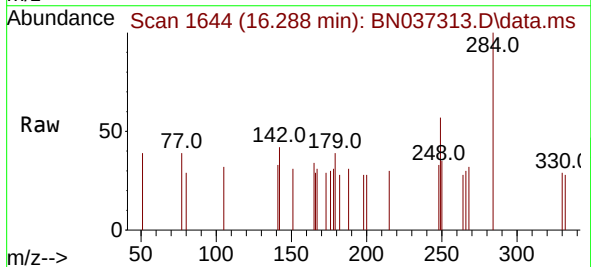
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

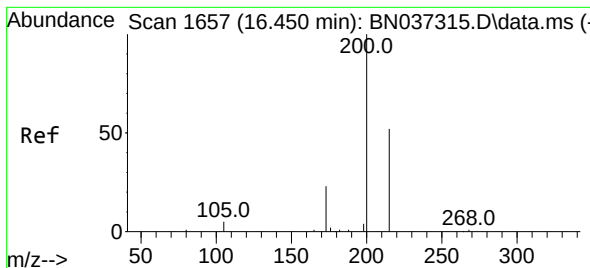
Tgt Ion:248 Resp: 177
Ion Ratio Lower Upper
248 100
250 101.0 80.4 120.6
141 67.0 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.105 ng
RT: 16.288 min Scan# 1644
Delta R.T. 0.012 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:284 Resp: 196
Ion Ratio Lower Upper
284 100
142 34.2 27.0 40.6
249 40.8 28.8 43.2





#23

Atrazine

Concen: 0.095 ng

RT: 16.475 min Scan# 1659

Delta R.T. 0.025 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

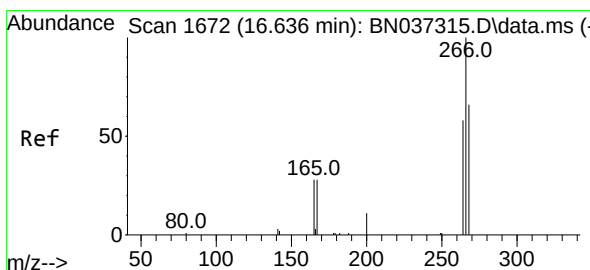
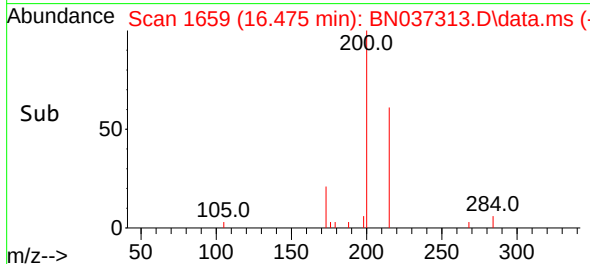
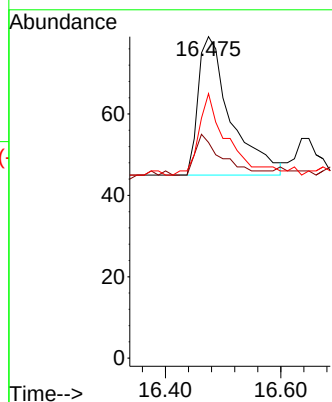
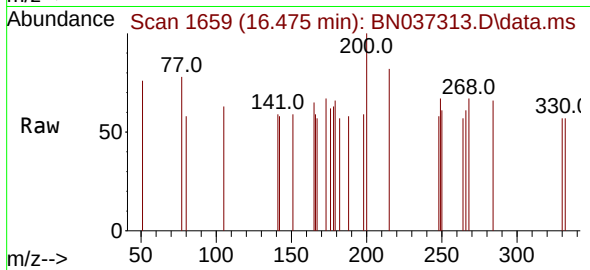
Tgt Ion:200 Resp: 133

Ion Ratio Lower Upper

200 100

173 67.1 29.2 43.8#

215 82.3 48.8 73.2#



#24

Pentachlorophenol

Concen: 0.107 ng

RT: 16.648 min Scan# 1673

Delta R.T. 0.012 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

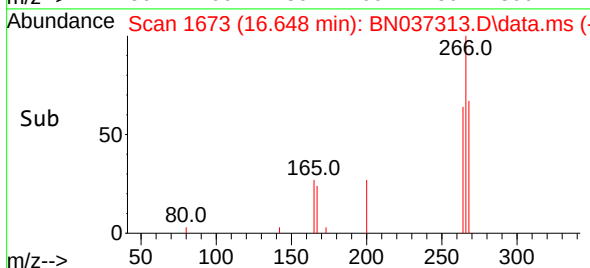
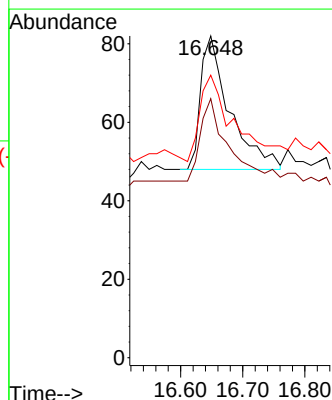
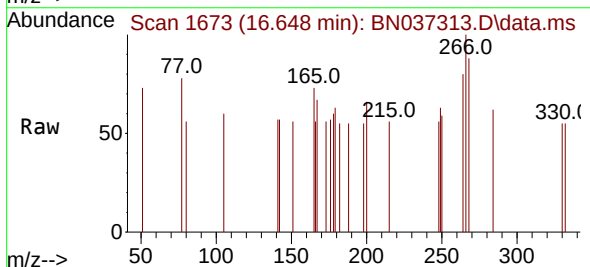
Tgt Ion:266 Resp: 111

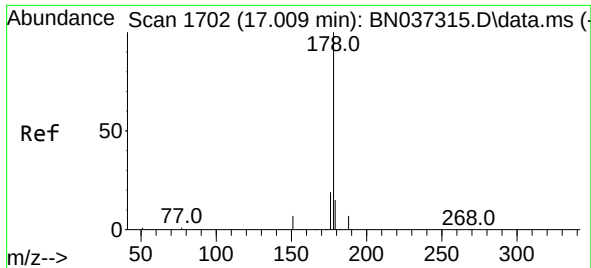
Ion Ratio Lower Upper

266 100

264 62.2 50.3 75.5

268 73.9 55.3 82.9

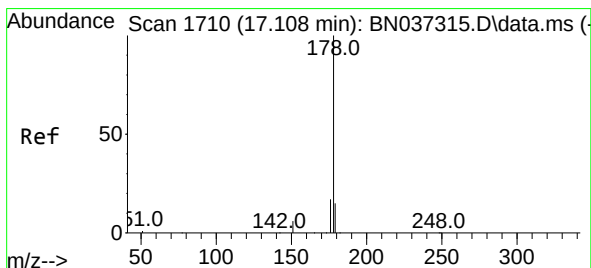
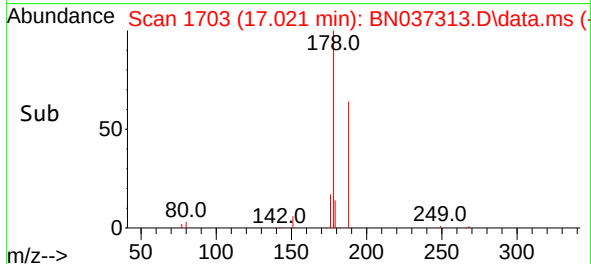
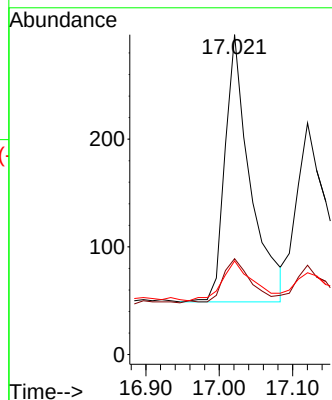
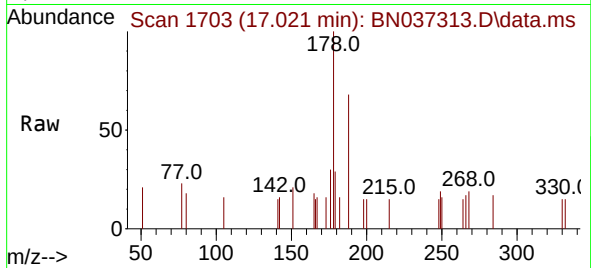




#25
Phenanthrene
Concen: 0.098 ng
RT: 17.021 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

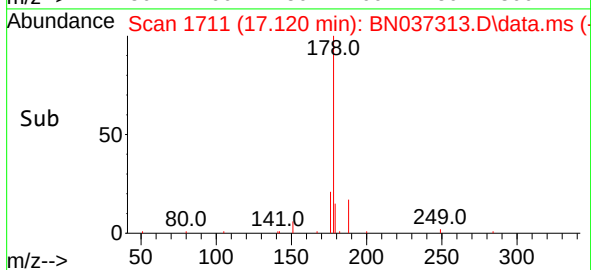
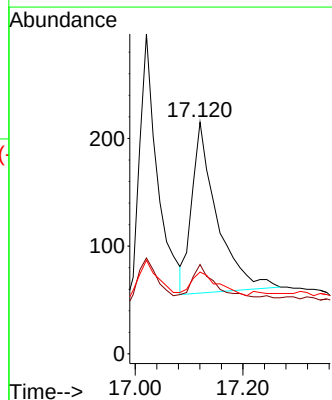
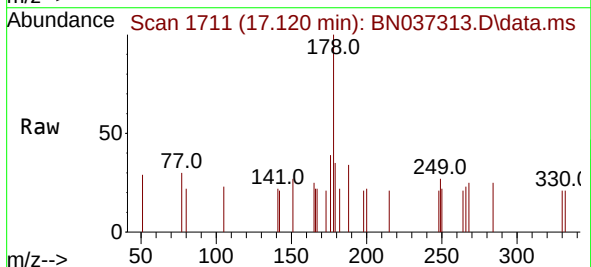
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

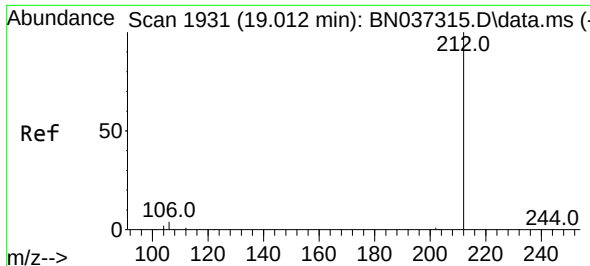
Tgt Ion:178 Resp: 592
Ion Ratio Lower Upper
178 100
176 18.4 15.2 22.8
179 17.6 12.9 19.3



#26
Anthracene
Concen: 0.090 ng
RT: 17.120 min Scan# 1711
Delta R.T. 0.012 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:178 Resp: 513
Ion Ratio Lower Upper
178 100
176 19.9 14.7 22.1
179 15.2 13.0 19.6

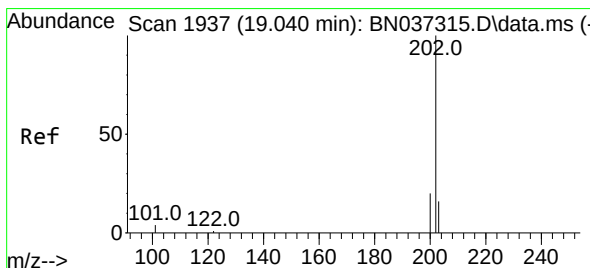
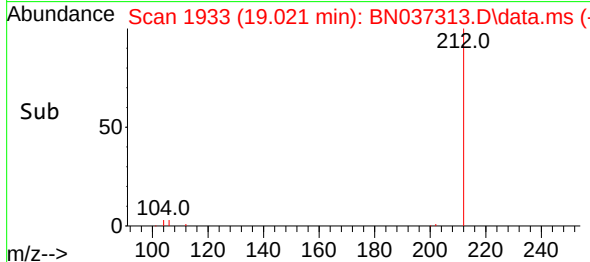
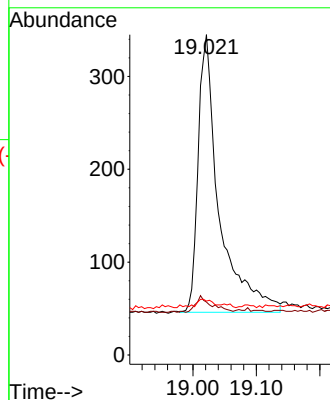
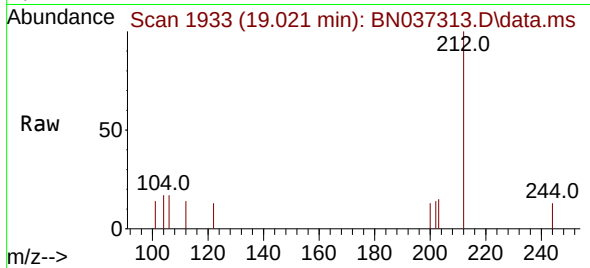




#27
Fluoranthene-d10
Concen: 0.101 ng
RT: 19.021 min Scan# 1933
Delta R.T. 0.009 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

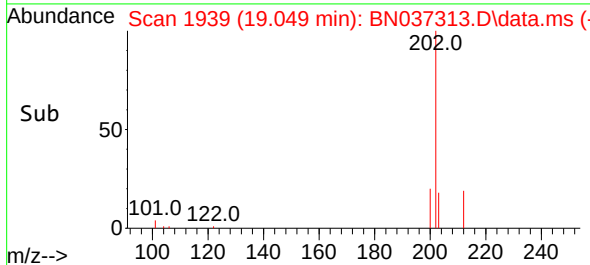
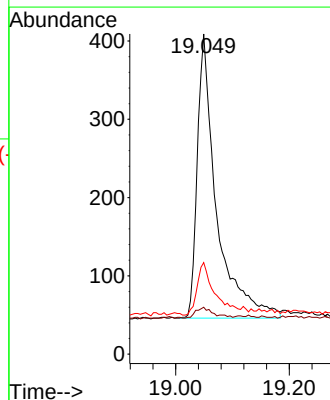
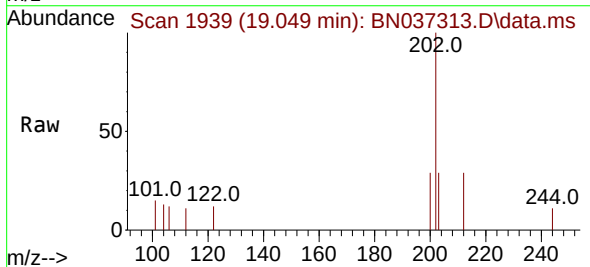
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

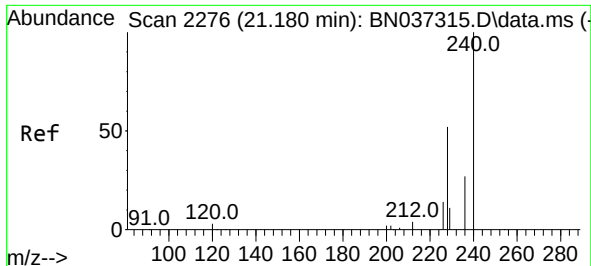
Tgt Ion:212 Resp: 688
Ion Ratio Lower Upper
212 100
106 4.5 3.0 4.4#
104 1.9 2.0 3.0#



#28
Fluoranthene
Concen: 0.101 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.009 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:202 Resp: 852
Ion Ratio Lower Upper
202 100
101 3.5 3.0 4.6
203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

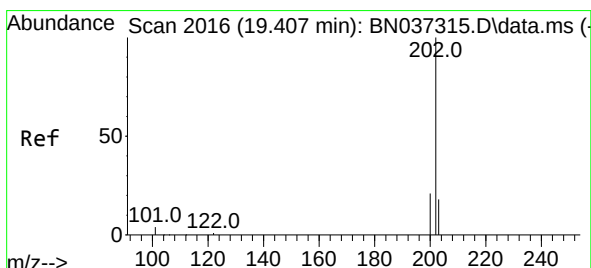
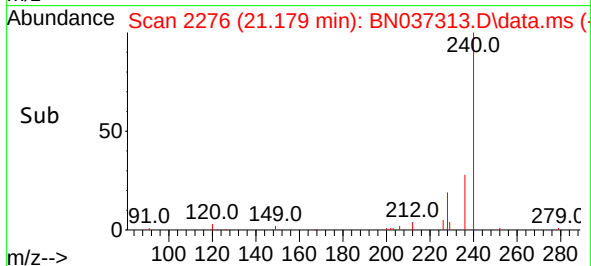
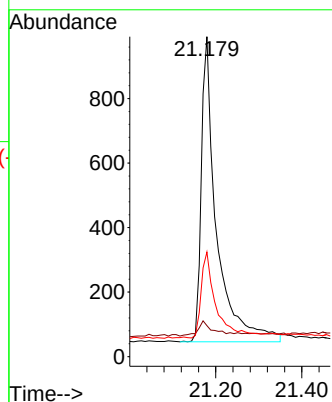
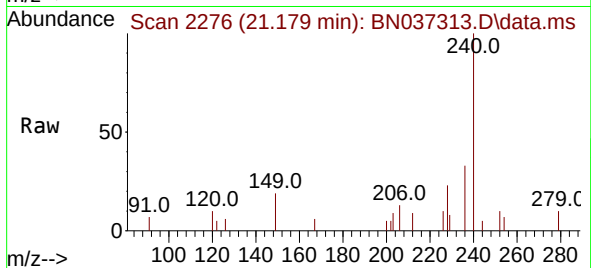
Tgt Ion:240 Resp: 2320

Ion Ratio Lower Upper

240 100

120 9.7 7.5 11.3

236 32.7 24.9 37.3



#30

Pyrene

Concen: 0.098 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.004 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

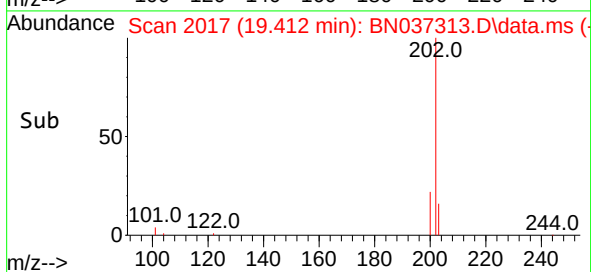
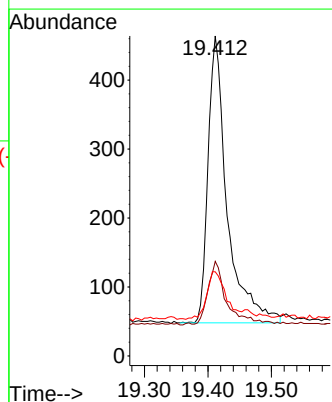
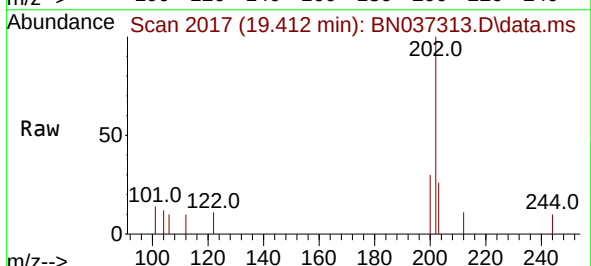
Tgt Ion:202 Resp: 868

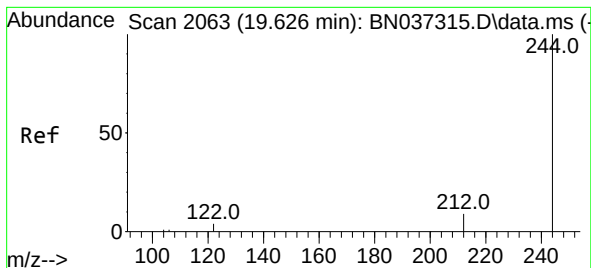
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 16.8 14.5 21.7





#31

Terphenyl-d14

Concen: 0.090 ng

RT: 19.635 min Scan# 2065

Delta R.T. 0.009 min

Lab File: BN037313.D

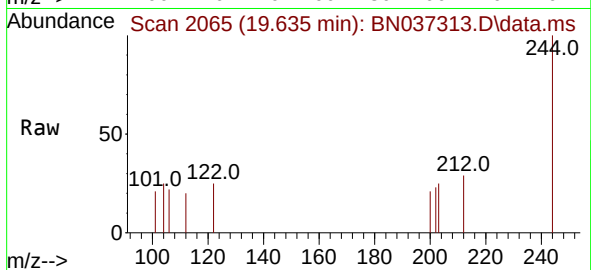
Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1



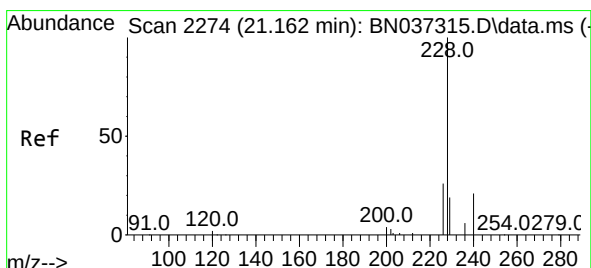
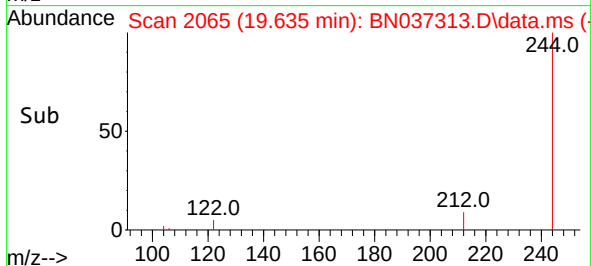
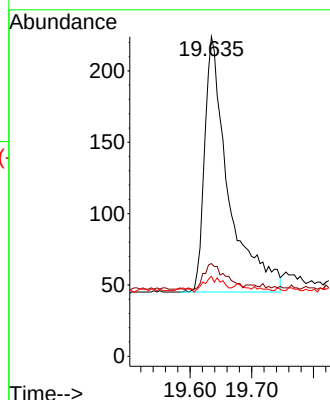
Tgt Ion:244 Resp: 481

Ion Ratio Lower Upper

244 100

212 29.0 11.1 16.7#

122 25.0 7.2 10.8#



#32

Benzo(a)anthracene

Concen: 0.083 ng

RT: 21.162 min Scan# 2274

Delta R.T. -0.000 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

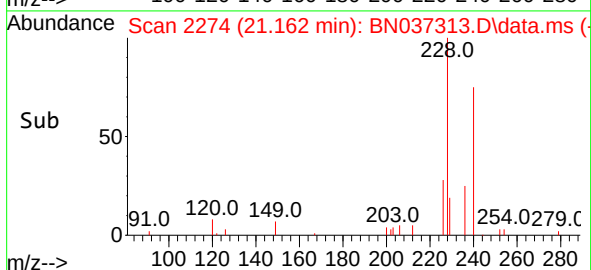
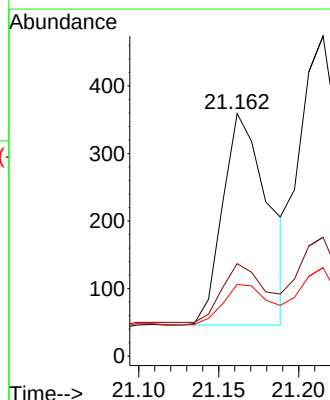
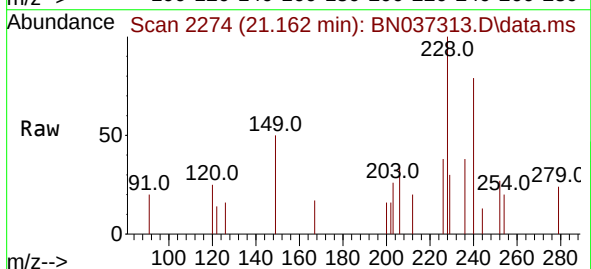
Tgt Ion:228 Resp: 618

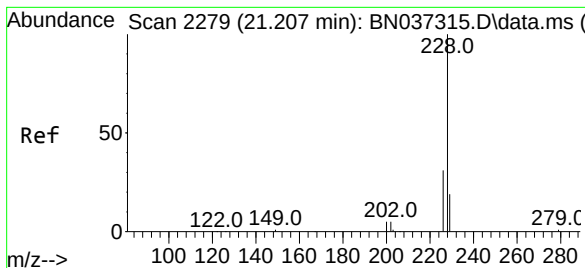
Ion Ratio Lower Upper

228 100

226 38.2 23.0 34.4#

229 29.5 17.4 26.0#





#33

Chrysene

Concen: 0.112 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

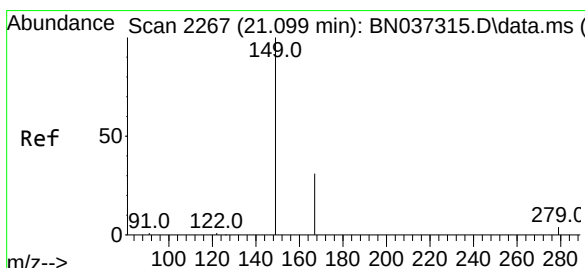
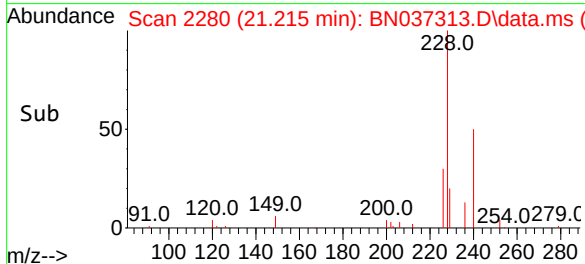
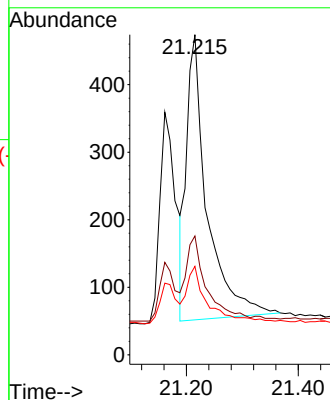
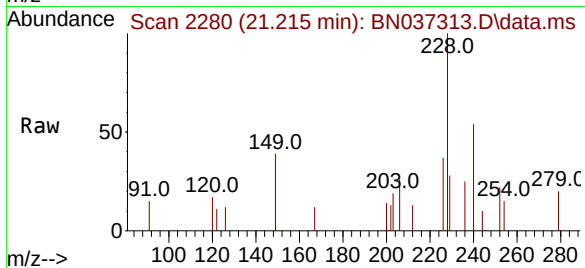
Tgt Ion:228 Resp: 1070

Ion Ratio Lower Upper

228 100

226 37.1 25.4 38.2

229 27.6 17.3 25.9#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.132 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

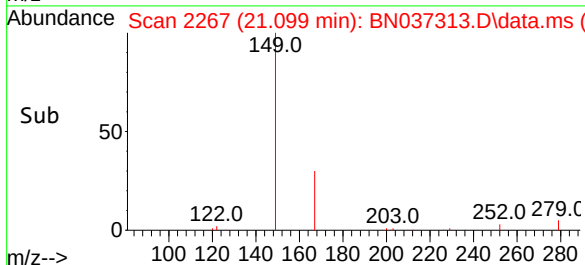
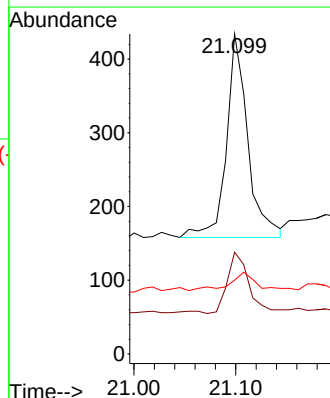
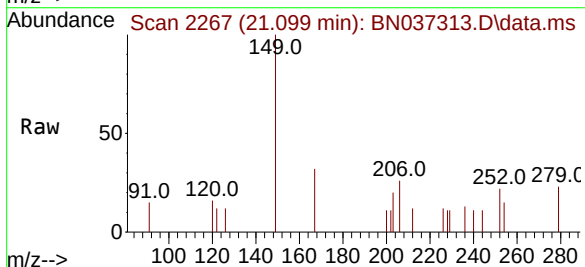
Tgt Ion:149 Resp: 403

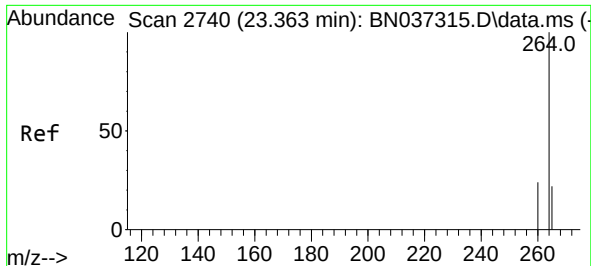
Ion Ratio Lower Upper

149 100

167 30.3 24.6 37.0

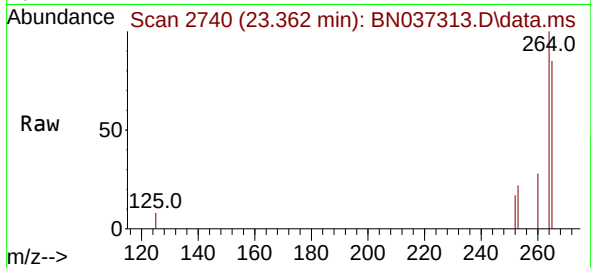
279 10.7 6.5 9.7#



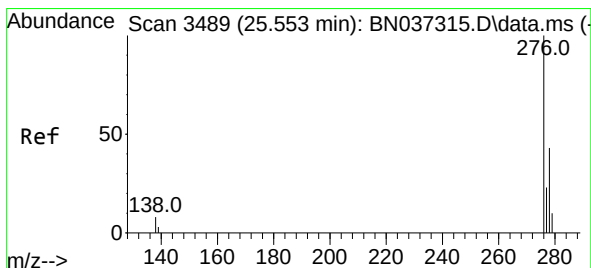
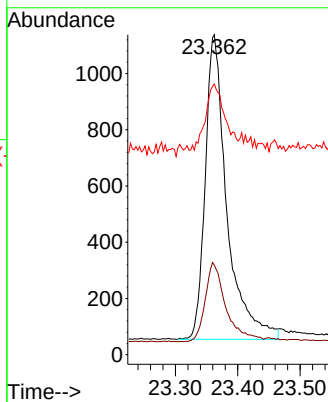
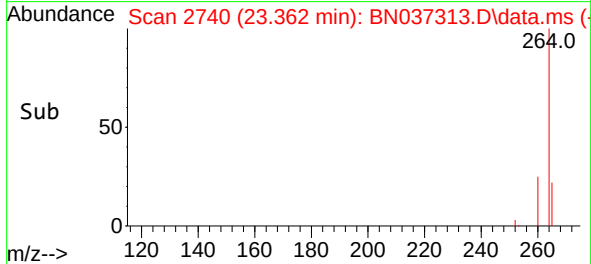


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.362 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

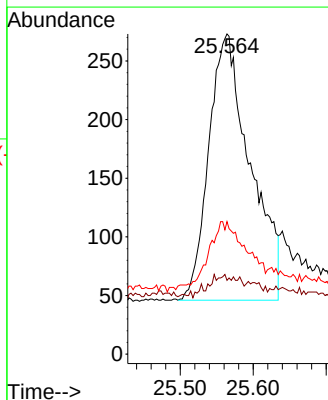
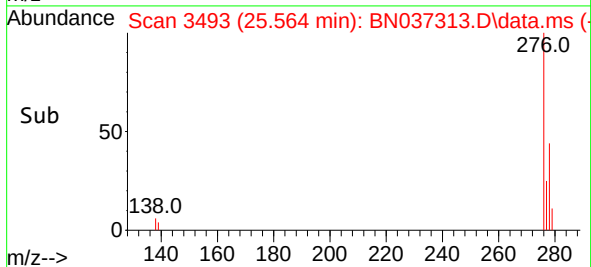
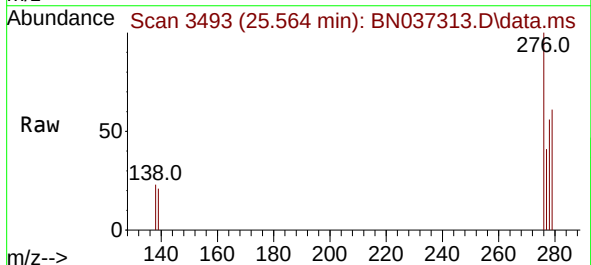


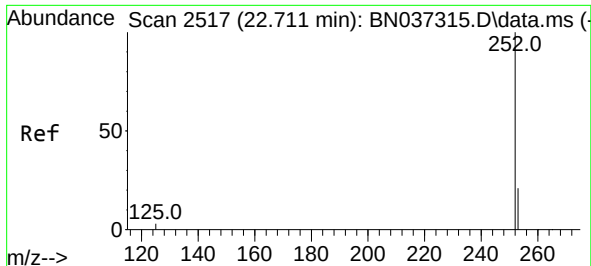
Tgt Ion:264 Resp: 2618
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 84.6 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.081 ng
RT: 25.564 min Scan# 3493
Delta R.T. 0.011 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Tgt Ion:276 Resp: 894
Ion Ratio Lower Upper
276 100
138 0.8 2.2 3.2#
277 24.2 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.091 ng

RT: 22.713 min Scan# 2517

Delta R.T. 0.003 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

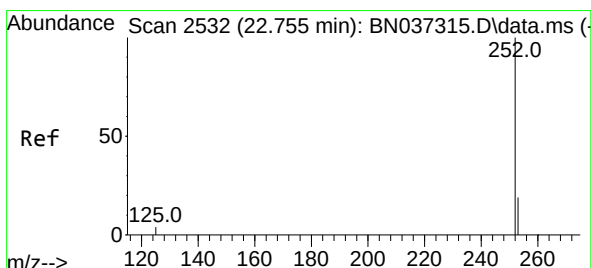
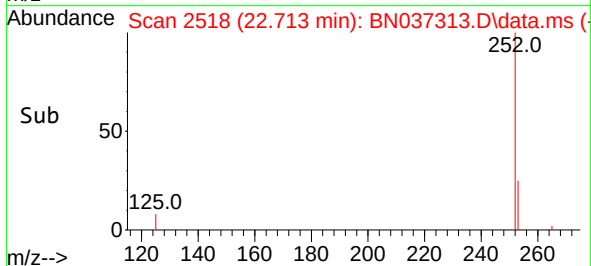
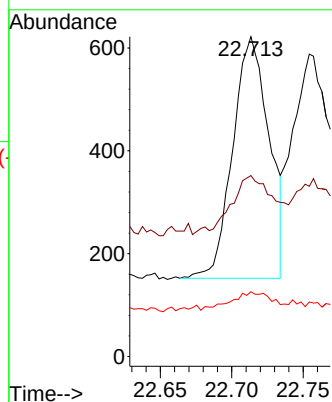
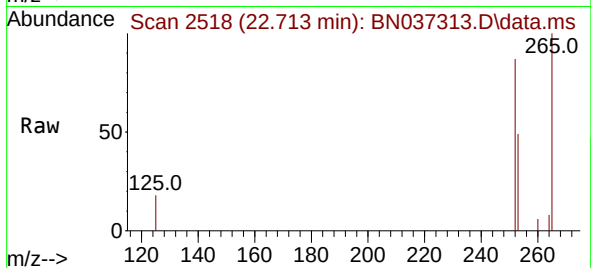
Tgt Ion:252 Resp: 830

Ion Ratio Lower Upper

252 100

253 56.6 26.6 40.0#

125 20.3 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 22.754 min Scan# 2532

Delta R.T. -0.000 min

Lab File: BN037313.D

Acq: 18 Jun 2025 14:06

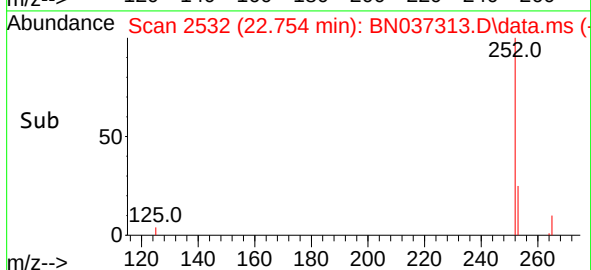
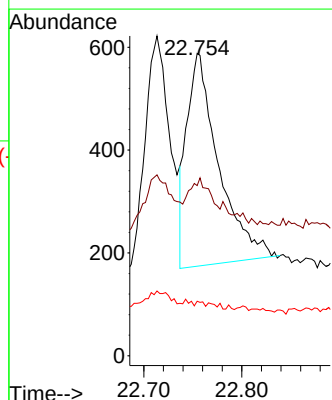
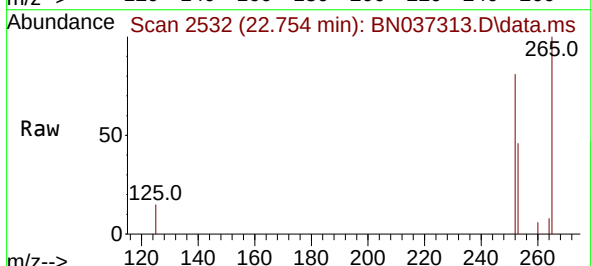
Tgt Ion:252 Resp: 935

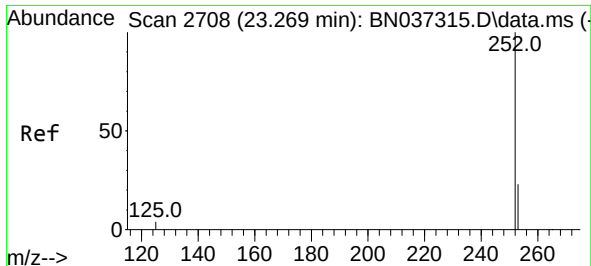
Ion Ratio Lower Upper

252 100

253 56.3 26.7 40.1#

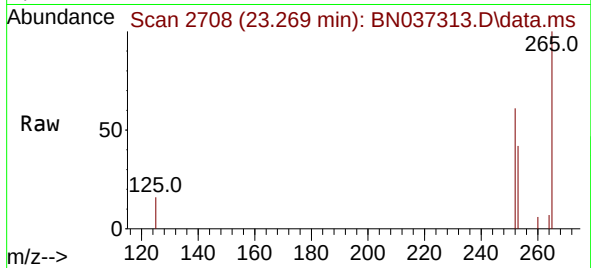
125 18.0 6.5 9.7#



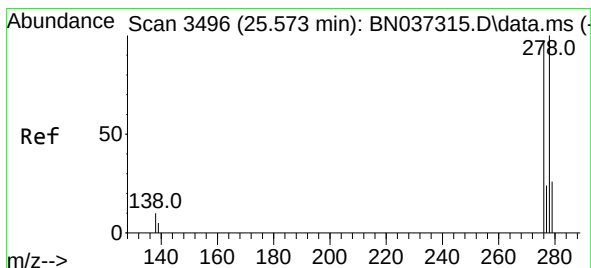
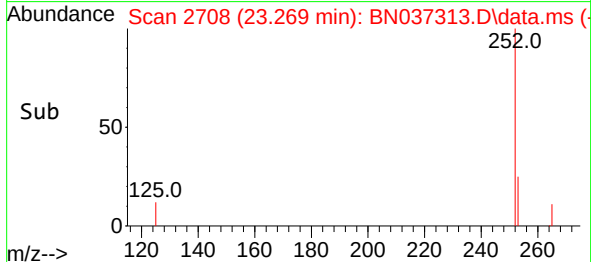
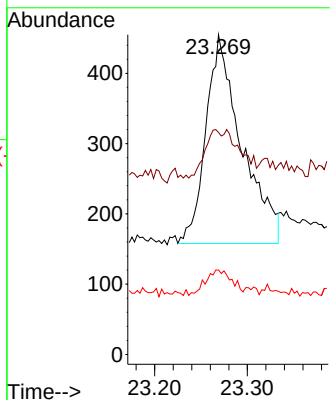


#39
Benzo(a)pyrene
Concen: 0.094 ng
RT: 23.269 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

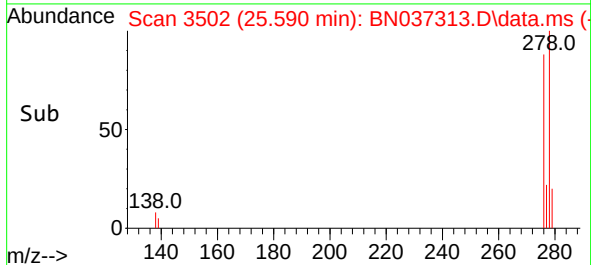
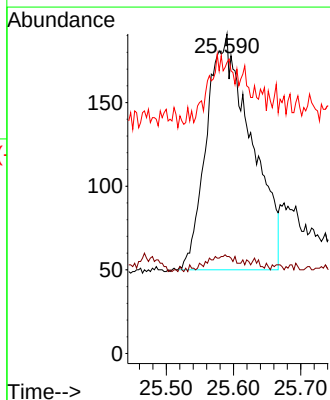
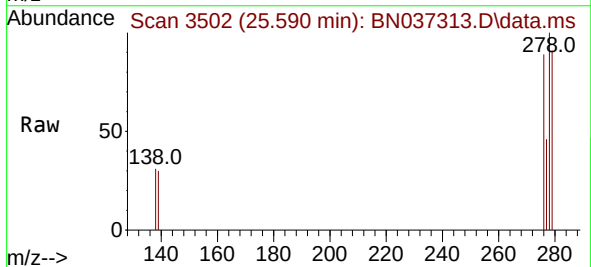


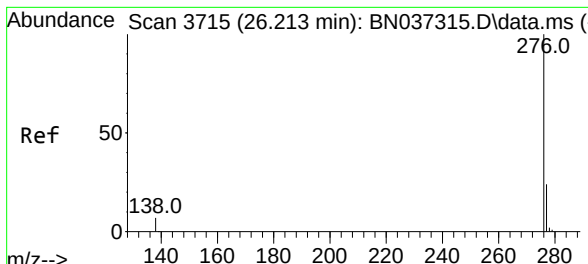
Tgt Ion:252 Resp: 795
Ion Ratio Lower Upper
252 100
253 69.5 31.6 47.4#
125 26.4 8.4 12.6#



#40
Dibenzo(a,h)anthracene
Concen: 0.074 ng
RT: 25.590 min Scan# 3502
Delta R.T. 0.017 min
Lab File: BN037313.D
Acq: 18 Jun 2025 14:06

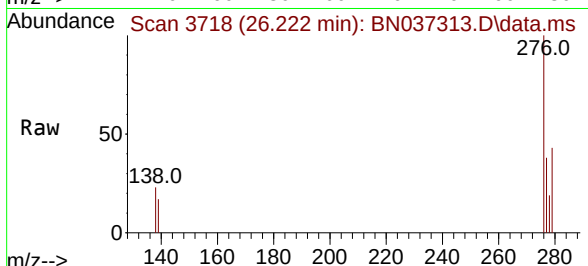
Tgt Ion:278 Resp: 651
Ion Ratio Lower Upper
278 100
139 30.4 10.2 15.4#
279 91.1 35.6 53.4#





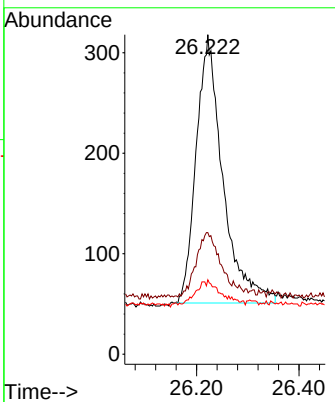
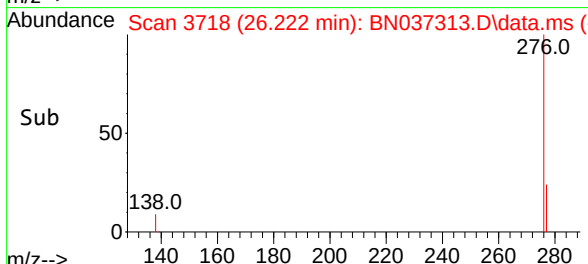
#41
 Benzo(g,h,i)perylene
 Concen: 0.095 ng
 RT: 26.222 min Scan# 31
 Delta R.T. 0.008 min
 Lab File: BN037313.D
 Acq: 18 Jun 2025 14:06

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1



Tgt Ion: 276 Resp: 961

Ion	Ratio	Lower	Upper
276	100		
277	38.1	22.7	34.1#
138	23.3	9.4	14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037314.D
 Acq On : 18 Jun 2025 14:42
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jun 18 18:32:23 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:27:59 2025
 Response via : Initial Calibration

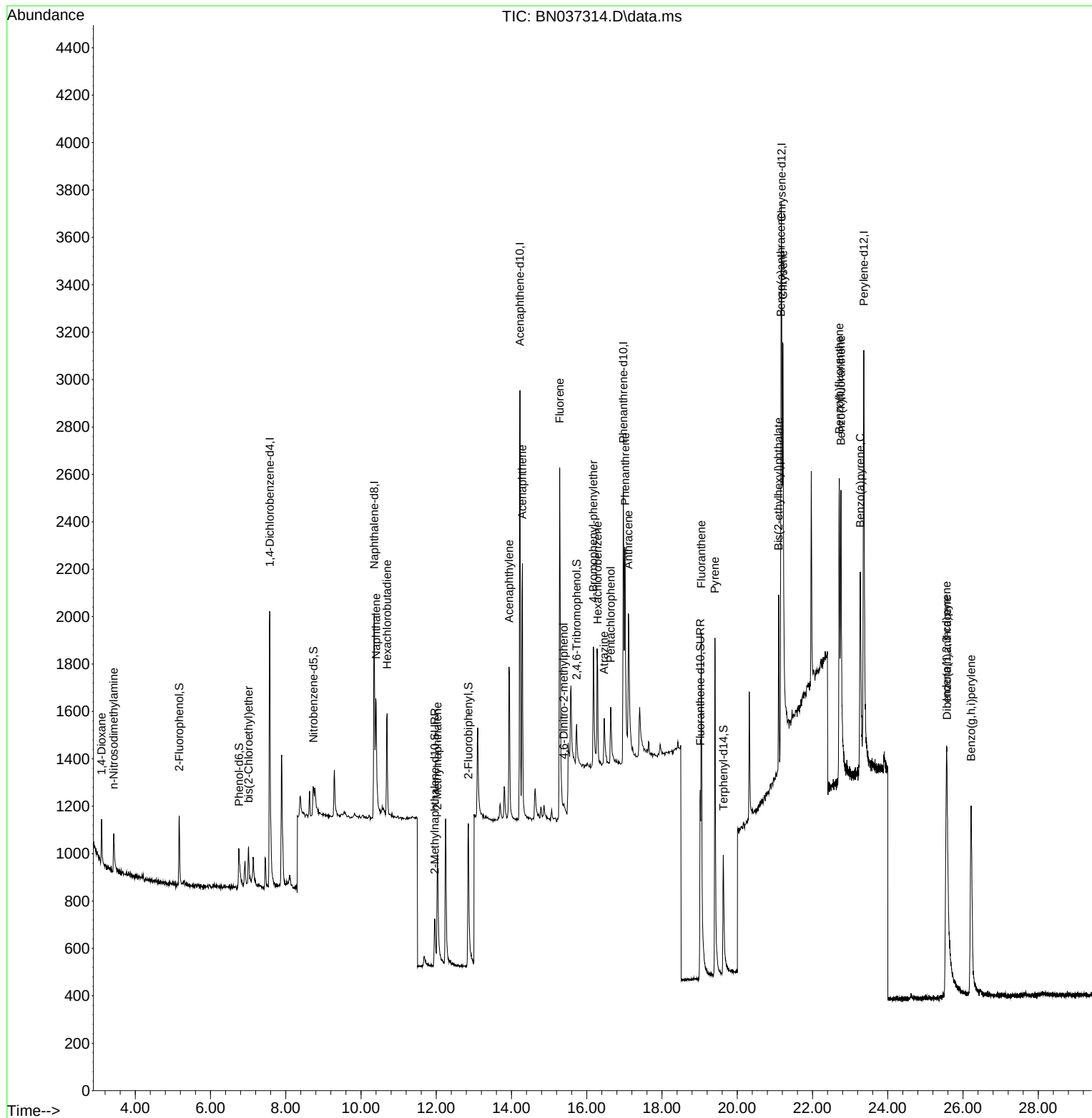
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	715	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1542	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1109	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2337	0.400	ng	0.00
29) Chrysene-d12	21.180	240	2507	0.400	ng	0.00
35) Perylene-d12	23.363	264	2797	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	270	0.208	ng	0.00
5) Phenol-d6	6.759	99	221	0.173	ng	0.00
8) Nitrobenzene-d5	8.739	82	202	0.160	ng	0.01
11) 2-Methylnaphthalene-d10	11.961	152	451	0.180	ng	0.01
14) 2,4,6-Tribromophenol	15.730	330	152	0.191	ng	0.01
15) 2-Fluorobiphenyl	12.853	172	907	0.187	ng	0.01
27) Fluoranthene-d10	19.017	212	1458	0.197	ng	0.00
31) Terphenyl-d14	19.630	244	1097	0.191	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	151	0.237	ng	96
3) n-Nitrosodimethylamine	3.429	42	171	0.231	ng	92
6) bis(2-Chloroethyl)ether	7.012	93	185	0.169	ng	95
9) Naphthalene	10.404	128	780	0.196	ng	# 92
10) Hexachlorobutadiene	10.693	225	418	0.207	ng	# 99
12) 2-Methylnaphthalene	12.031	142	536	0.191	ng	95
16) Acenaphthylene	13.935	152	890	0.191	ng	99
17) Acenaphthene	14.288	154	618	0.199	ng	95
18) Fluorene	15.282	166	844	0.192	ng	100
20) 4,6-Dinitro-2-methylph...	15.389	198	92	0.131	ng	# 64
21) 4-Bromophenyl-phenylether	16.177	248	389	0.201	ng	# 92
22) Hexachlorobenzene	16.289	284	441	0.217	ng	95
23) Atrazine	16.463	200	306	0.202	ng	94
24) Pentachlorophenol	16.636	266	229	0.204	ng	90
25) Phenanthrene	17.021	178	1258	0.191	ng	99
26) Anthracene	17.108	178	1168	0.189	ng	96
28) Fluoranthene	19.045	202	1799	0.197	ng	99
30) Pyrene	19.407	202	1856	0.194	ng	99
32) Benzo(a)anthracene	21.162	228	1461	0.181	ng	94
33) Chrysene	21.216	228	2167	0.210	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	714	0.216	ng	# 94
36) Indeno(1,2,3-cd)pyrene	25.561	276	2171	0.185	ng	# 98
37) Benzo(b)fluoranthene	22.711	252	1740	0.178	ng	# 87
38) Benzo(k)fluoranthene	22.755	252	2013	0.188	ng	# 90
39) Benzo(a)pyrene	23.269	252	1711	0.189	ng	# 85
40) Dibenzo(a,h)anthracene	25.573	278	1538	0.164	ng	# 84
41) Benzo(g,h,i)perylene	26.216	276	2056	0.191	ng	# 95

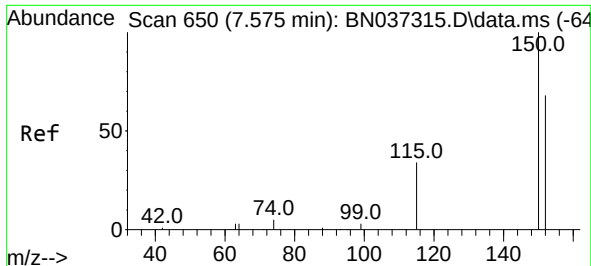
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037314.D
Acq On : 18 Jun 2025 14:42
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

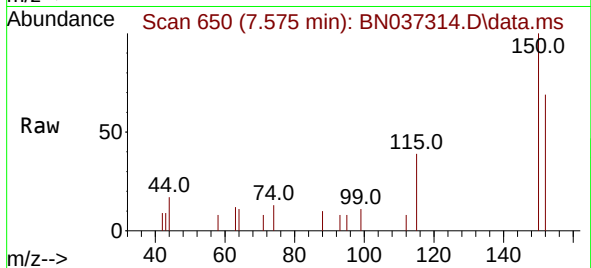
Quant Time: Jun 18 18:32:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:27:59 2025
Response via : Initial Calibration



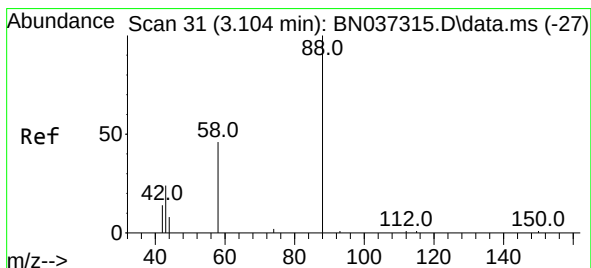
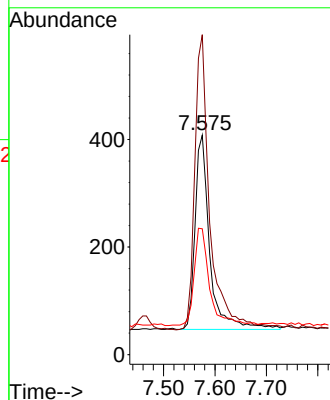
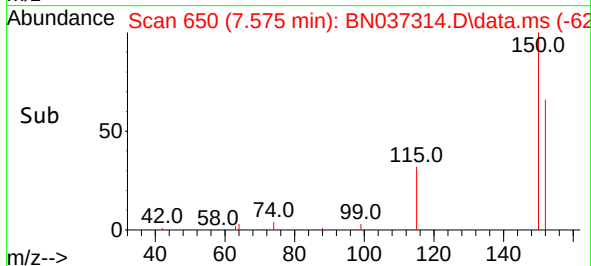


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN037314.D
 Acq: 18 Jun 2025 14:42

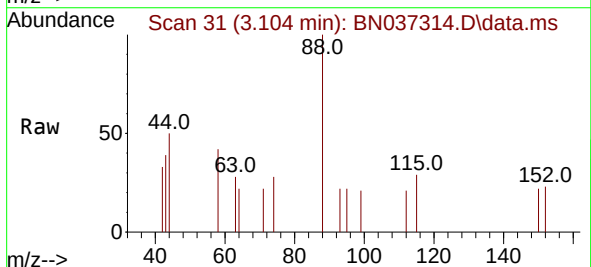
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



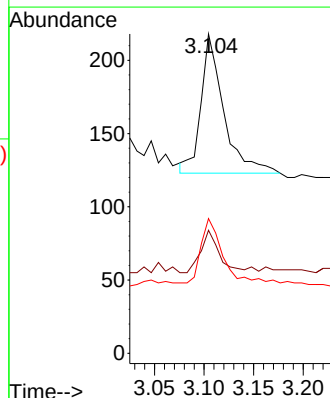
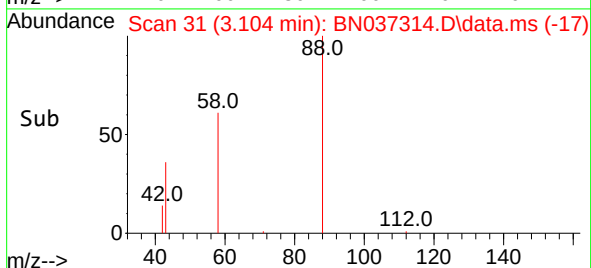
Tgt Ion:152 Resp: 715
 Ion Ratio Lower Upper
 152 100
 150 145.8 112.7 169.1
 115 57.4 45.9 68.9

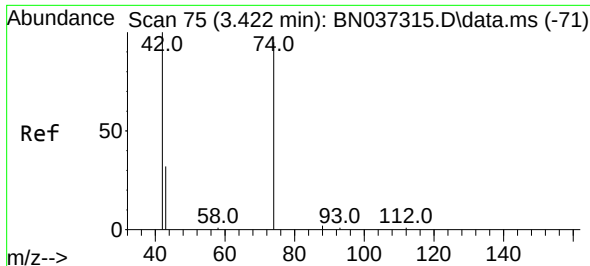


#2
 1,4-Dioxane
 Concen: 0.237 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037314.D
 Acq: 18 Jun 2025 14:42



Tgt Ion: 88 Resp: 151
 Ion Ratio Lower Upper
 88 100
 43 24.5 21.0 31.6
 58 45.0 38.0 57.0

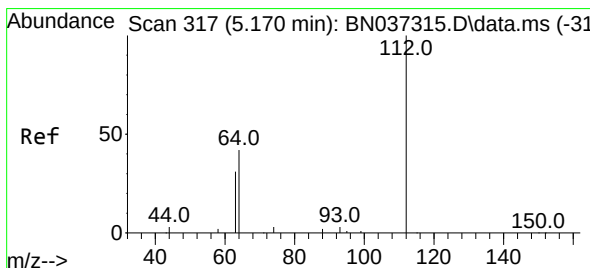
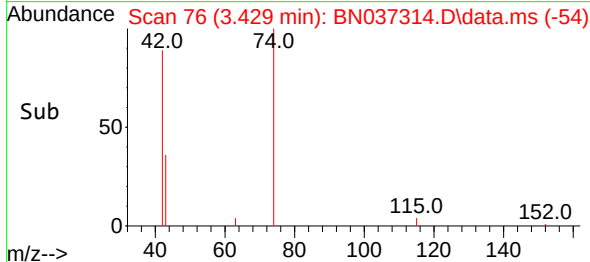
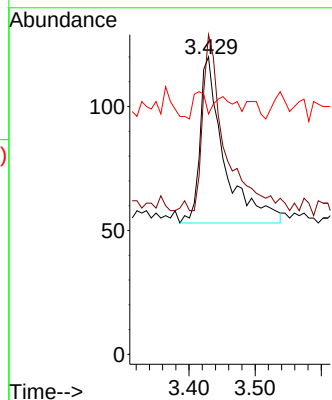
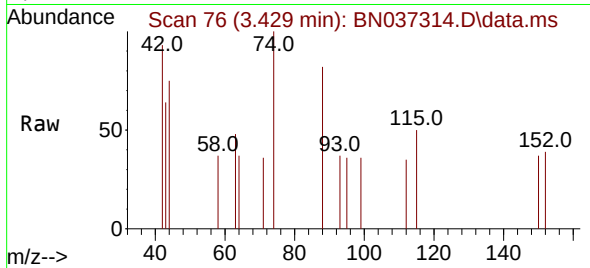




#3
 n-Nitrosodimethylamine
 Concen: 0.231 ng
 RT: 3.429 min Scan# 75
 Delta R.T. 0.007 min
 Lab File: BN037314.D
 Acq: 18 Jun 2025 14:42

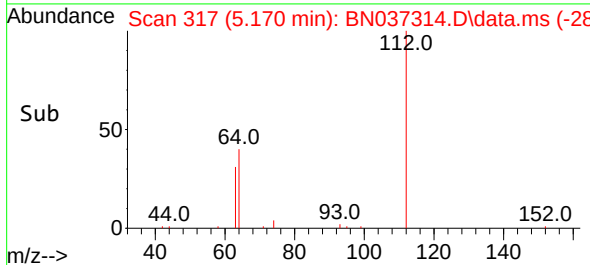
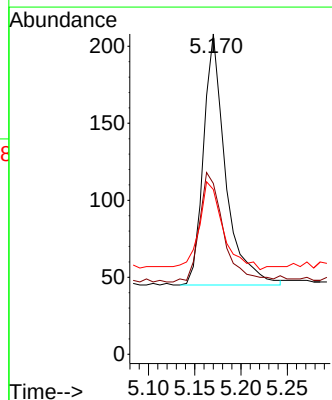
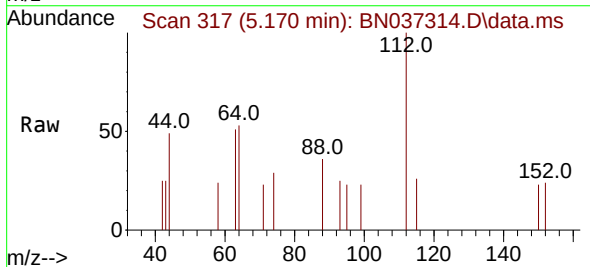
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

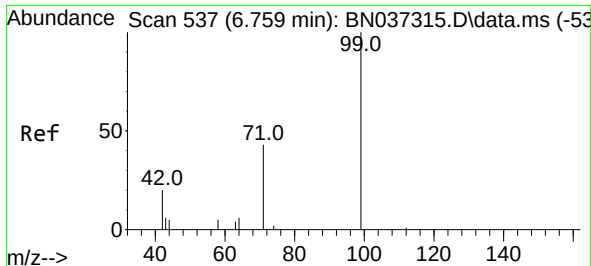
Tgt Ion: 42 Resp: 171
 Ion Ratio Lower Upper
 42 100
 74 97.1 84.3 126.5
 44 7.0 5.0 7.4



#4
 2-Fluorophenol
 Concen: 0.208 ng
 RT: 5.170 min Scan# 317
 Delta R.T. 0.000 min
 Lab File: BN037314.D
 Acq: 18 Jun 2025 14:42

Tgt Ion: 112 Resp: 270
 Ion Ratio Lower Upper
 112 100
 64 47.4 38.7 58.1
 63 33.7 26.4 39.6

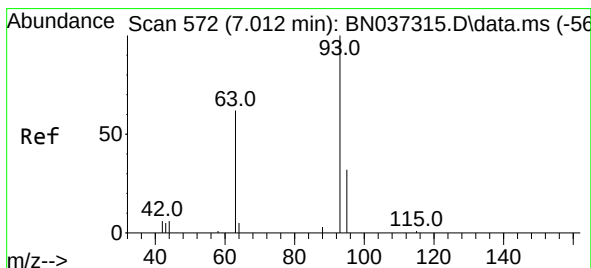
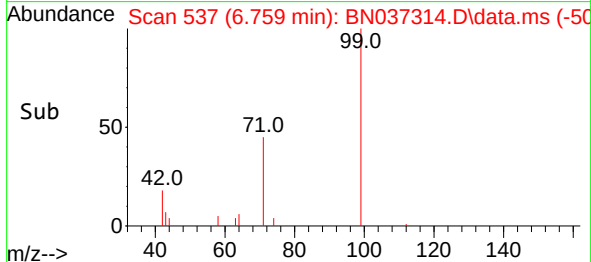
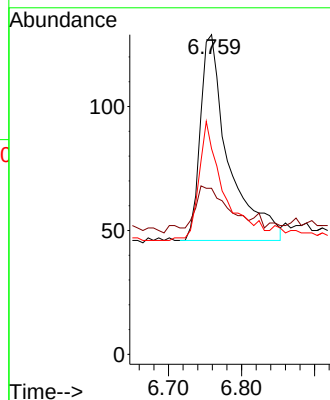
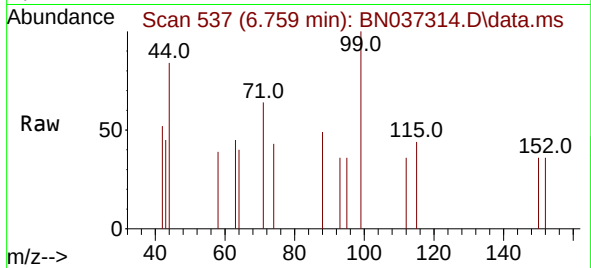




#5
Phenol-d6
Concen: 0.173 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

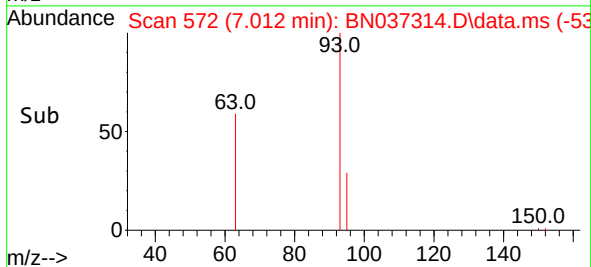
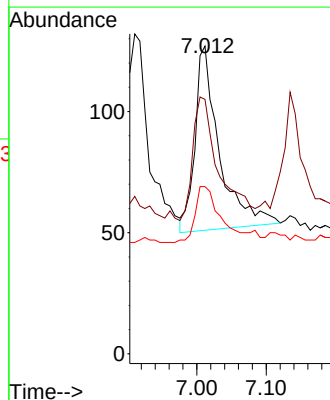
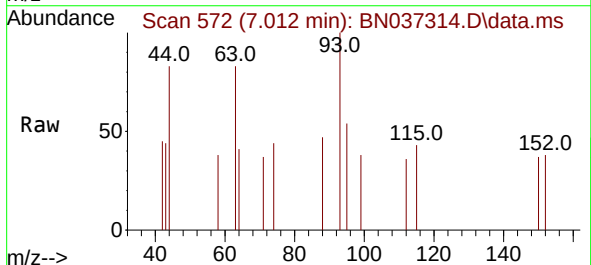
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

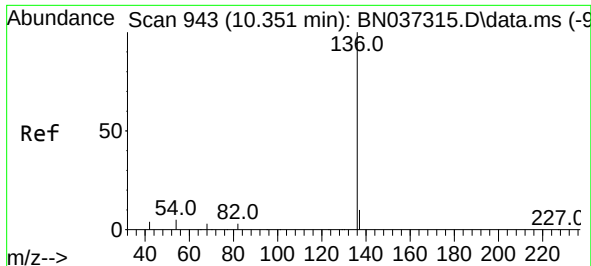
Tgt Ion:	99	Resp:	221
Ion	Ratio	Lower	Upper
99	100		
42	25.3	19.8	29.8
71	52.5	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.169 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:	93	Resp:	185
Ion	Ratio	Lower	Upper
93	100		
63	72.4	53.2	79.8
95	34.6	27.3	40.9

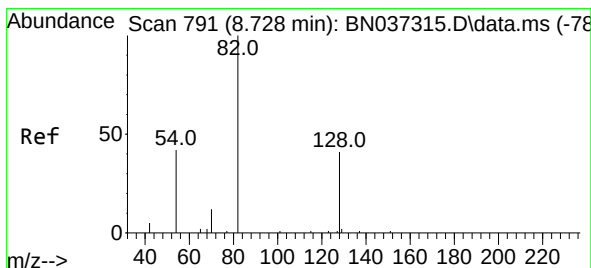
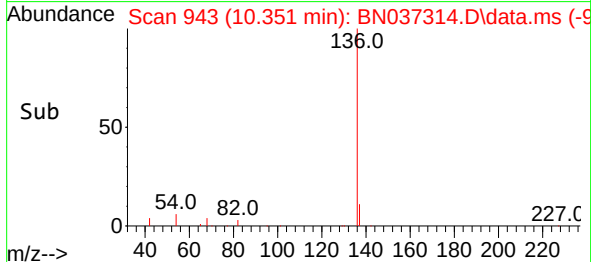
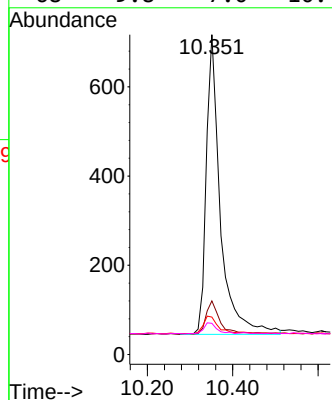
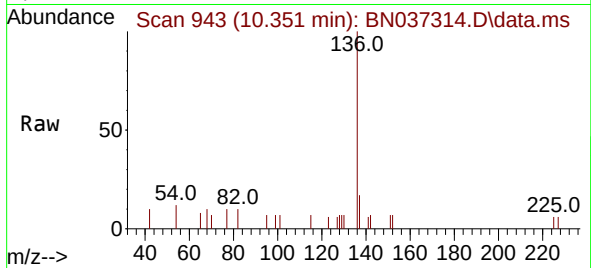




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

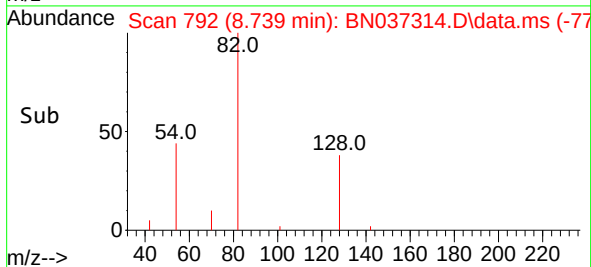
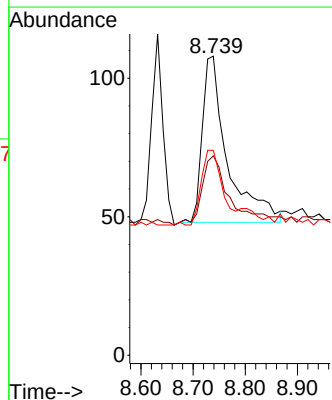
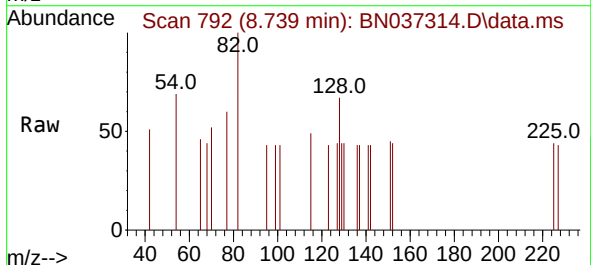
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

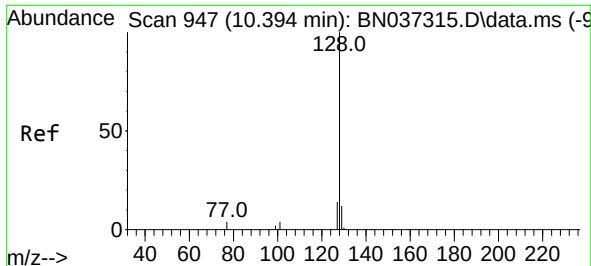
Tgt Ion:	136	Resp:	1542
Ion	Ratio	Lower	Upper
136	100		
137	16.7	12.2	18.2
54	11.7	8.8	13.2
68	9.8	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.160 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:	82	Resp:	202
Ion	Ratio	Lower	Upper
82	100		
128	66.7	42.5	63.7#
54	68.5	43.2	64.8#

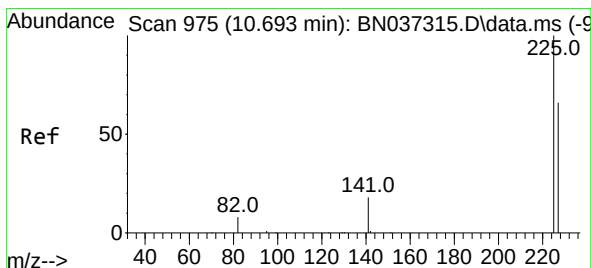
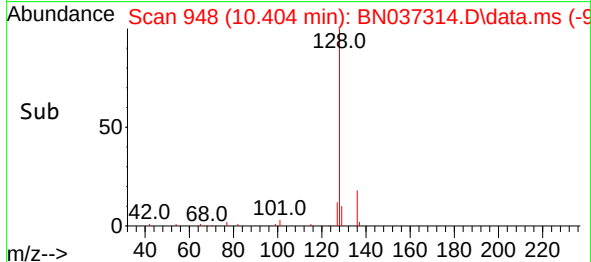
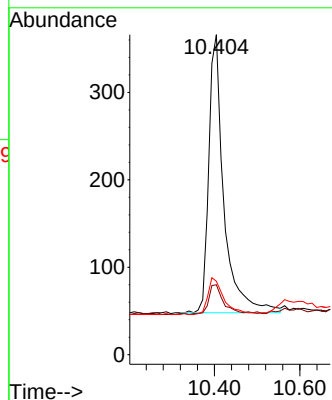
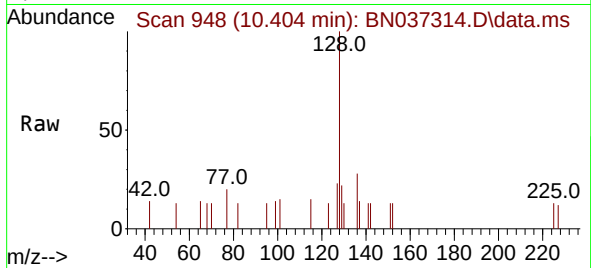




#9
Naphthalene
Concen: 0.196 ng
RT: 10.404 min Scan# 947
Delta R.T. 0.011 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

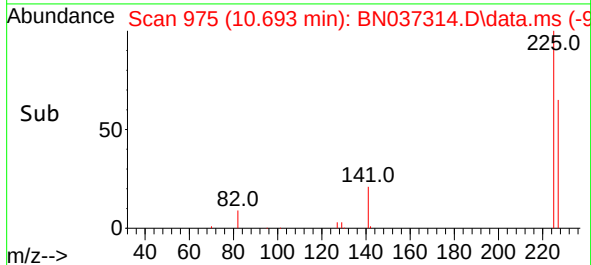
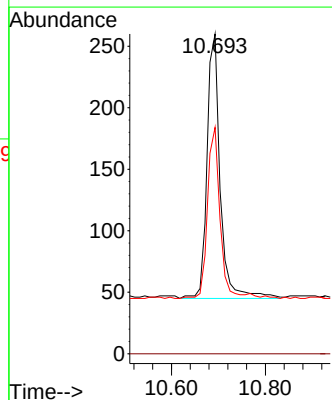
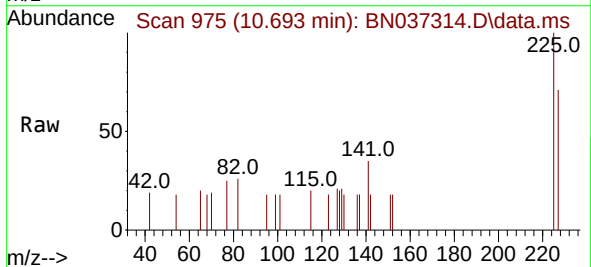
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

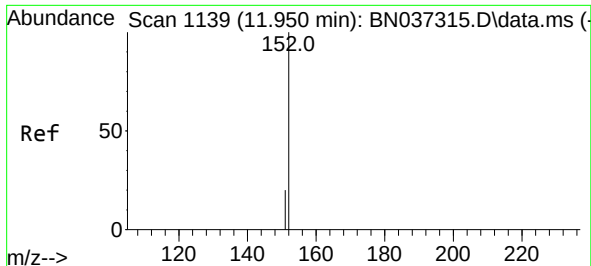
Tgt Ion:128 Resp: 780
Ion Ratio Lower Upper
128 100
129 21.9 14.0 21.0#
127 23.0 15.8 23.8



#10
Hexachlorobutadiene
Concen: 0.207 ng
RT: 10.693 min Scan# 975
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:225 Resp: 418
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.4 50.3 75.5

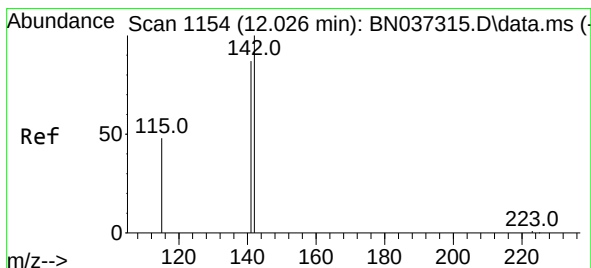
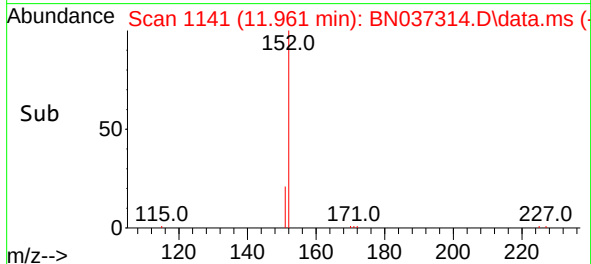
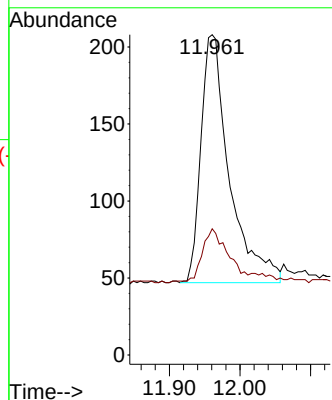
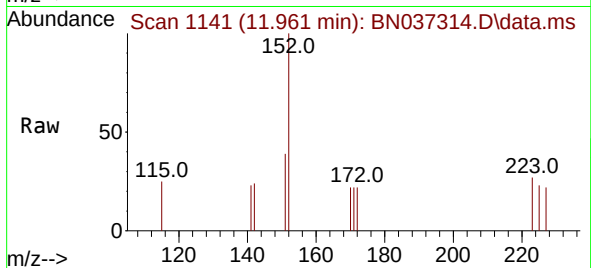




#11
2-Methylnaphthalene-d10
Concen: 0.180 ng
RT: 11.961 min Scan# 1141
Delta R.T. 0.010 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

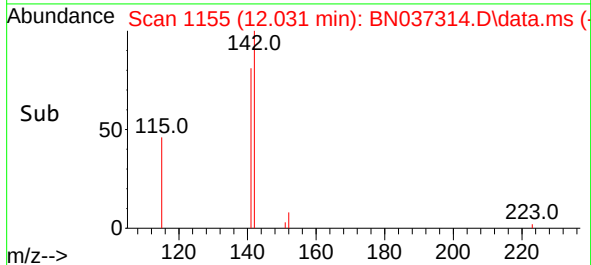
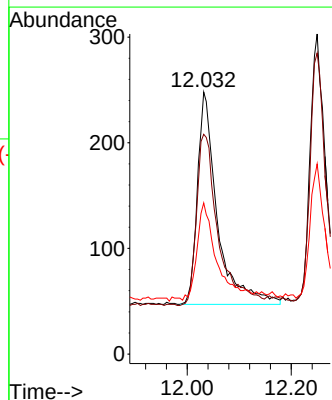
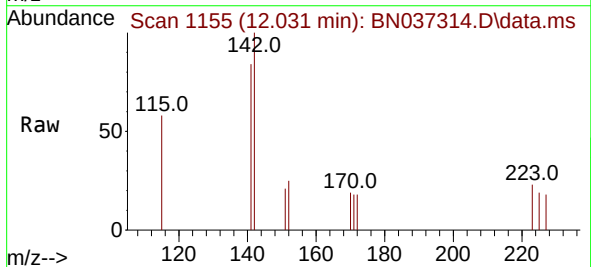
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

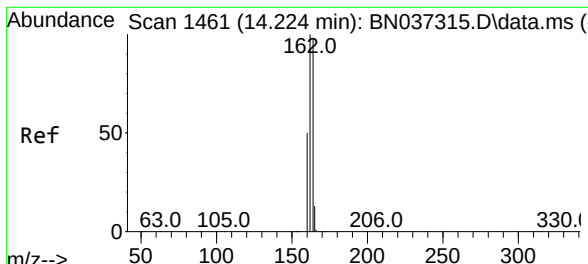
Tgt Ion:152 Resp: 451
Ion Ratio Lower Upper
152 100
151 18.8 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.031 min Scan# 1155
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:142 Resp: 536
Ion Ratio Lower Upper
142 100
141 83.9 70.2 105.2
115 57.7 43.0 64.4



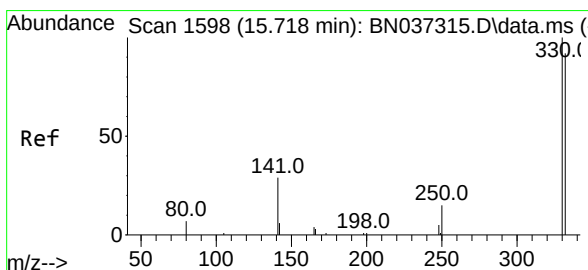
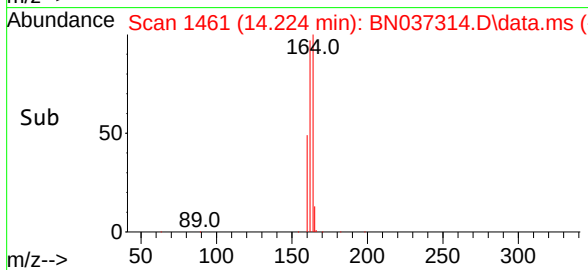
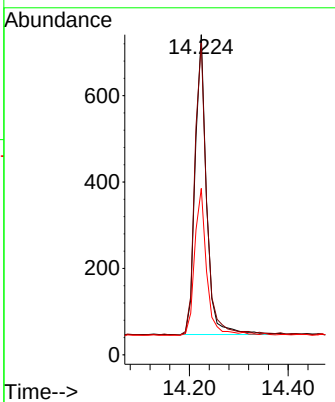
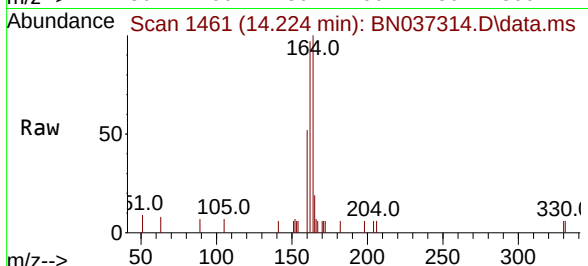


#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.224 min Scan# 1461
 Delta R.T. 0.000 min
 Lab File: BN037314.D
 Acq: 18 Jun 2025 14:42

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Tgt Ion:164 Resp: 1109

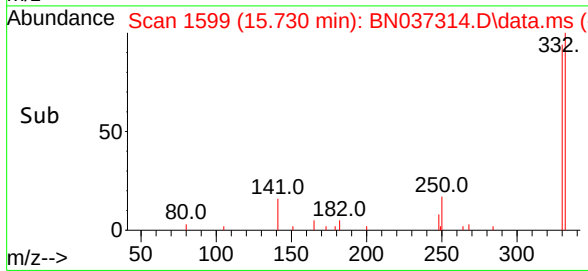
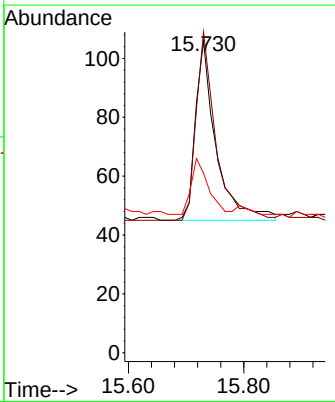
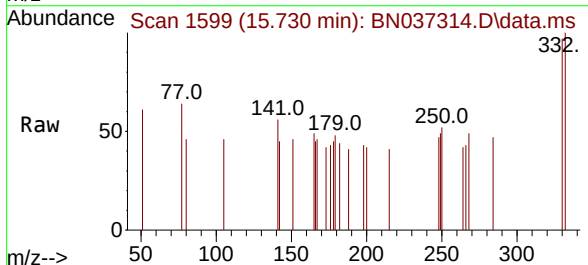
Ion	Ratio	Lower	Upper
164	100		
162	97.4	81.5	122.3
160	52.0	43.0	64.4

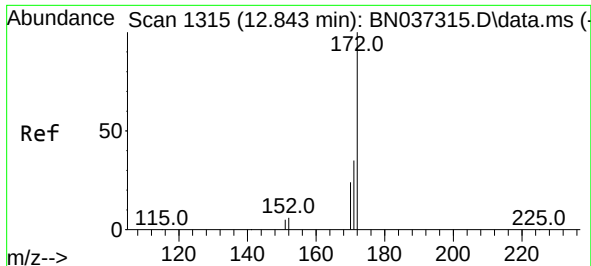


#14
 2,4,6-Tribromophenol
 Concen: 0.191 ng
 RT: 15.730 min Scan# 1599
 Delta R.T. 0.012 min
 Lab File: BN037314.D
 Acq: 18 Jun 2025 14:42

Tgt Ion:330 Resp: 152

Ion	Ratio	Lower	Upper
330	100		
332	100.0	78.4	117.6
141	25.7	24.4	36.6

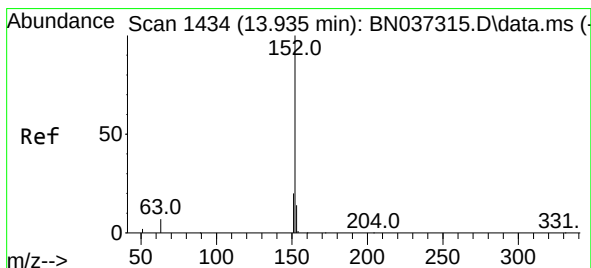
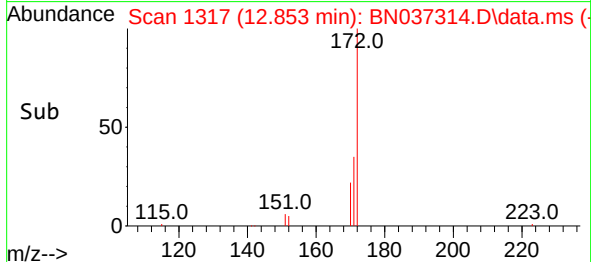
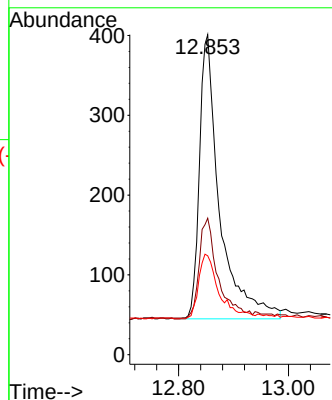
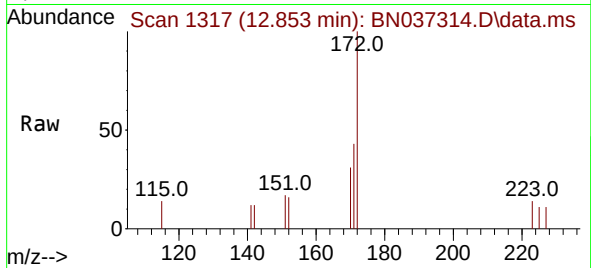




#15
2-Fluorobiphenyl
Concen: 0.187 ng
RT: 12.853 min Scan# 1317
Delta R.T. 0.010 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

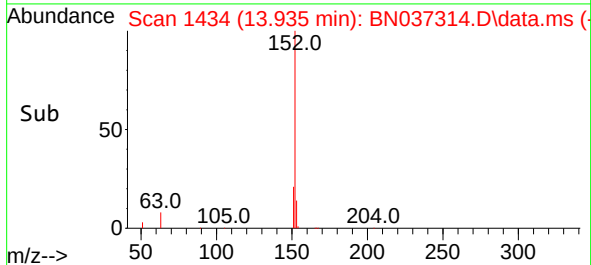
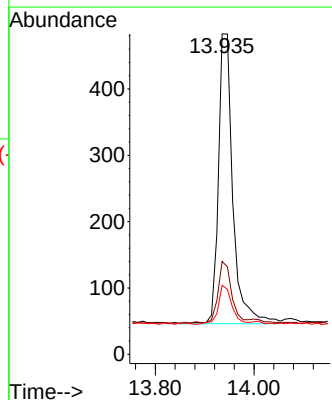
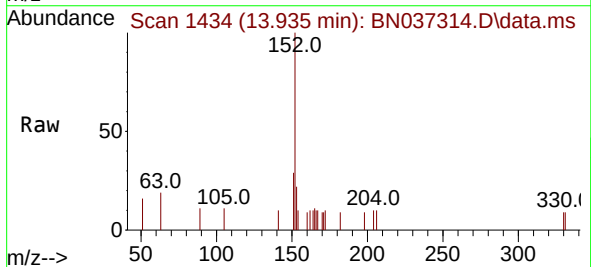
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

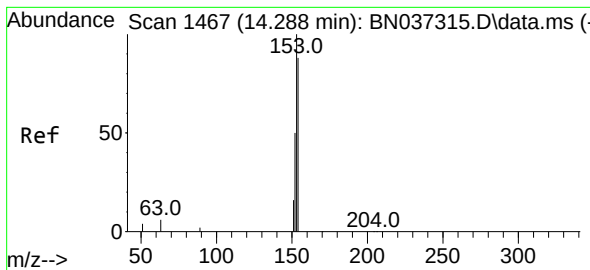
Tgt Ion:	172	Resp:	907
Ion	Ratio	Lower	Upper
172	100		
171	42.6	30.8	46.2
170	30.9	21.9	32.9



#16
Acenaphthylene
Concen: 0.191 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:	152	Resp:	890
Ion	Ratio	Lower	Upper
152	100		
151	21.5	16.6	24.8
153	12.8	10.2	15.2





#17

Acenaphthene

Concen: 0.199 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

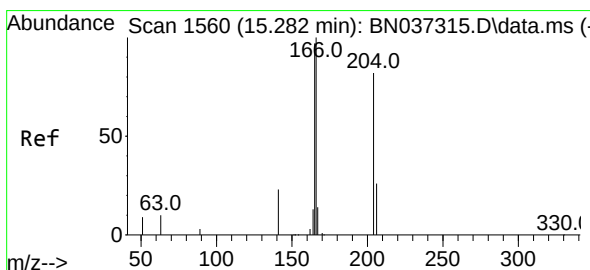
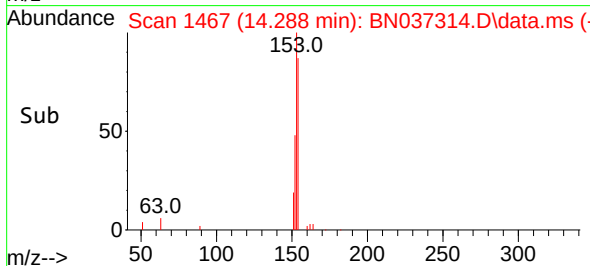
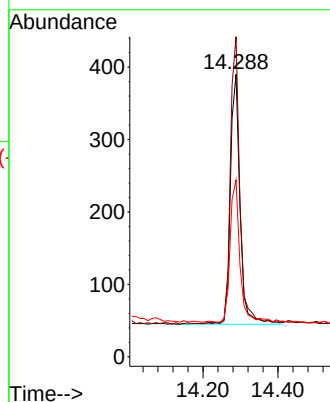
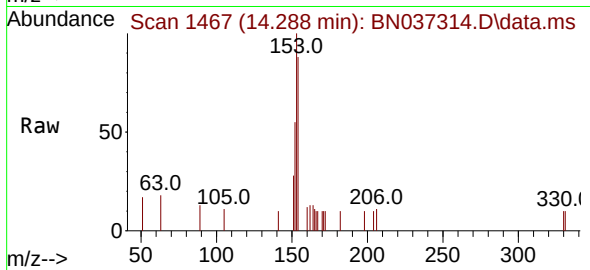
Tgt Ion:154 Resp: 618

Ion Ratio Lower Upper

154 100

153 110.7 93.1 139.7

152 57.1 48.6 73.0



#18

Fluorene

Concen: 0.192 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

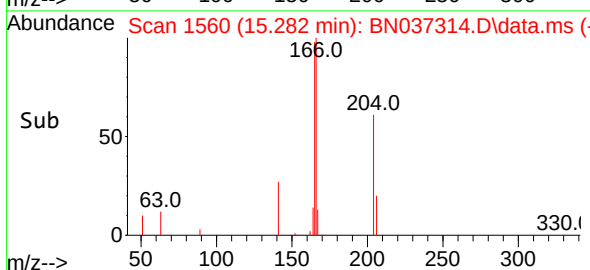
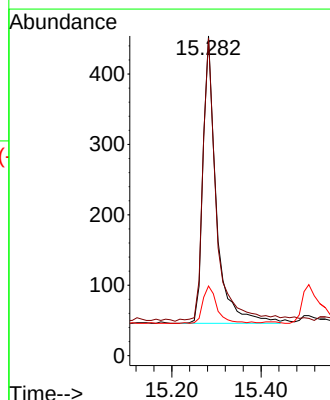
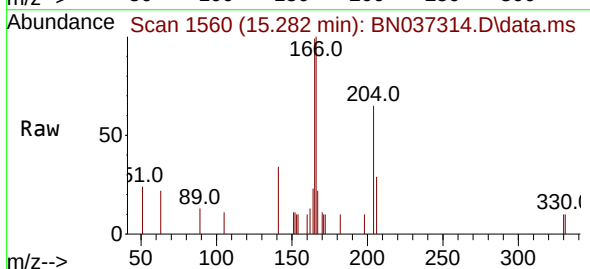
Tgt Ion:166 Resp: 844

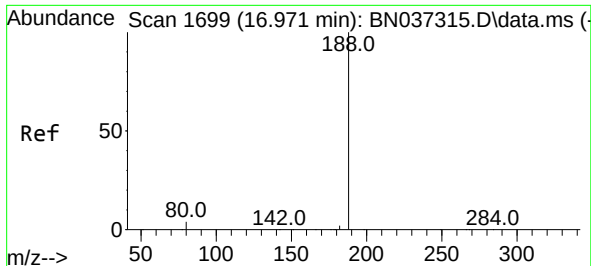
Ion Ratio Lower Upper

166 100

165 99.8 79.5 119.3

167 13.9 10.7 16.1

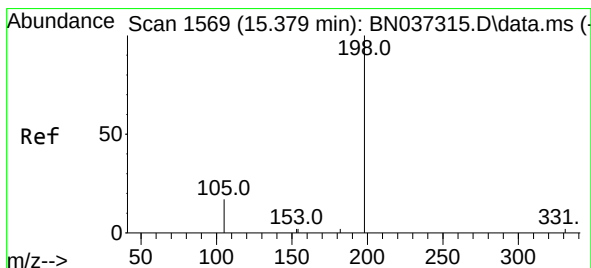
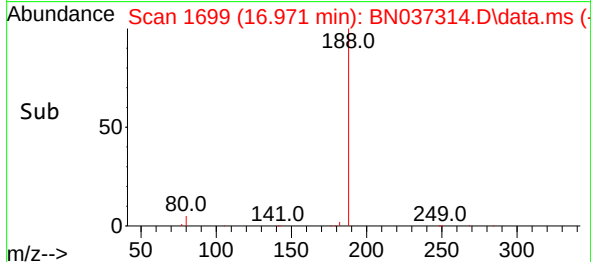
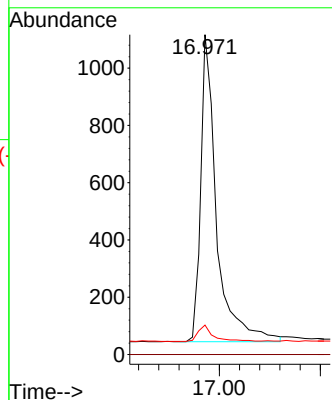
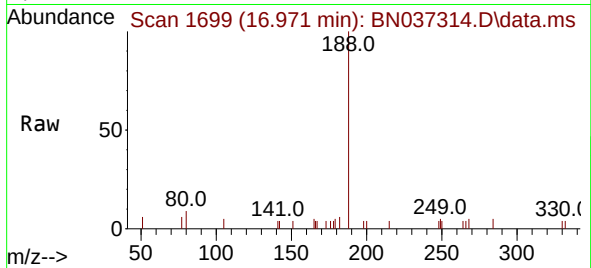




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

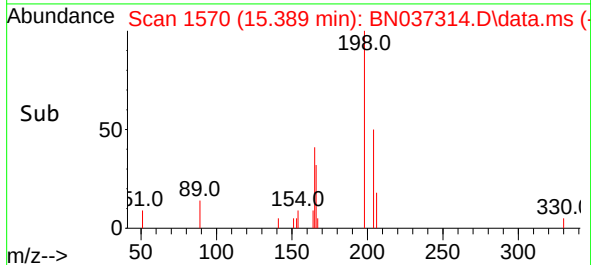
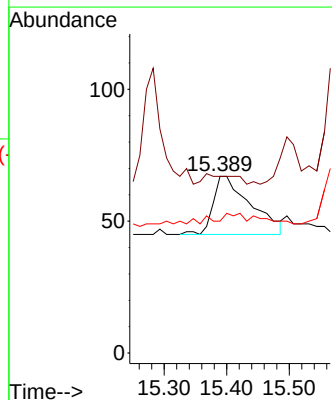
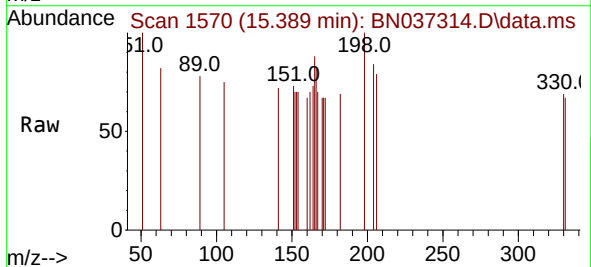
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

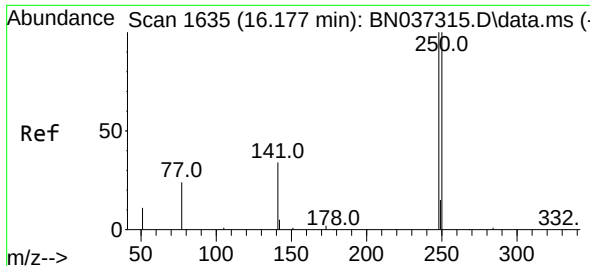
Tgt Ion:188 Resp: 2337
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 9.2 6.2 9.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.131 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.011 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:198 Resp: 92
Ion Ratio Lower Upper
198 100
51 100.0 51.4 77.0#
105 74.6 45.5 68.3#

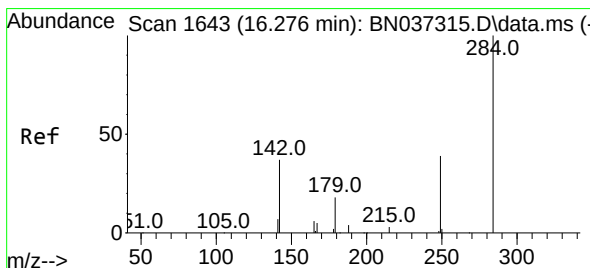
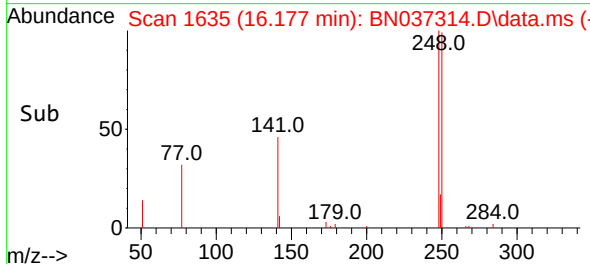
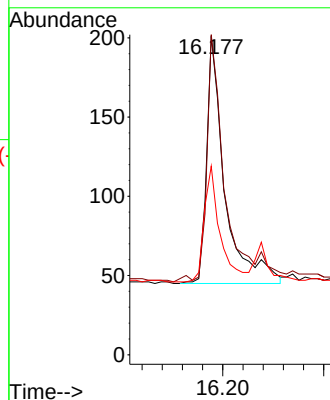
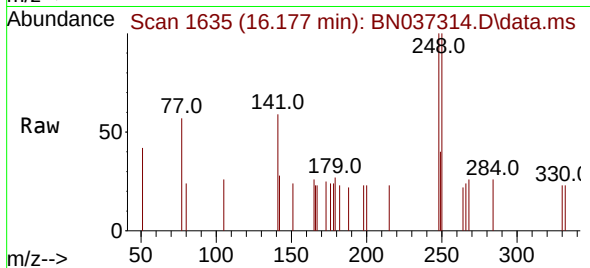




#21
4-Bromophenyl-phenylether
Concen: 0.201 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

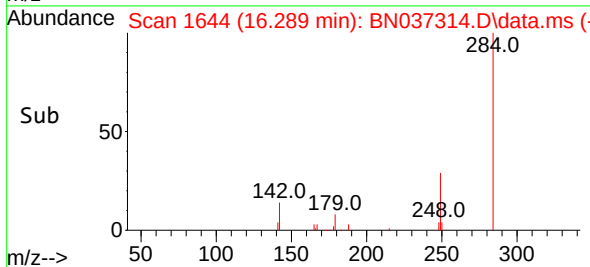
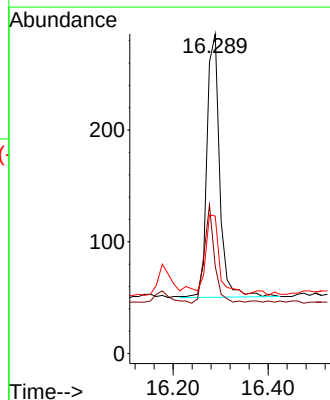
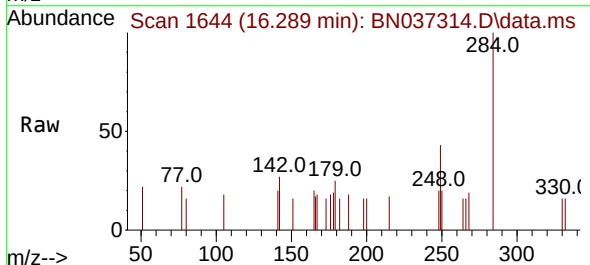
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

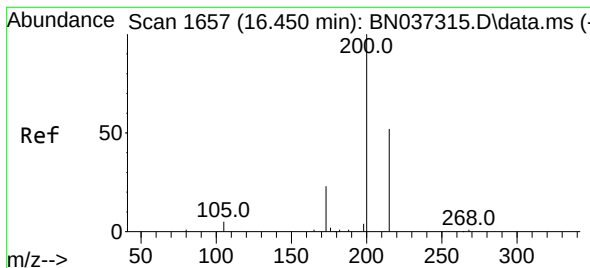
Tgt Ion:248 Resp: 389
Ion Ratio Lower Upper
248 100
250 100.5 80.4 120.6
141 59.2 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.217 ng
RT: 16.289 min Scan# 1644
Delta R.T. 0.012 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:284 Resp: 441
Ion Ratio Lower Upper
284 100
142 30.8 27.0 40.6
249 33.3 28.8 43.2





#23

Atrazine

Concen: 0.202 ng

RT: 16.463 min Scan# 1658

Delta R.T. 0.012 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

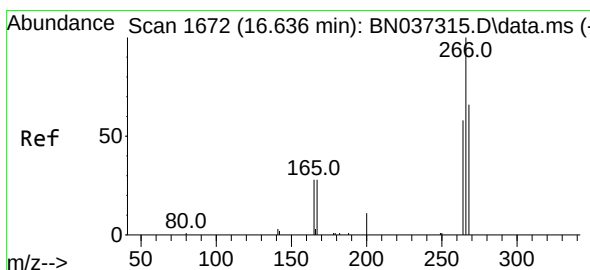
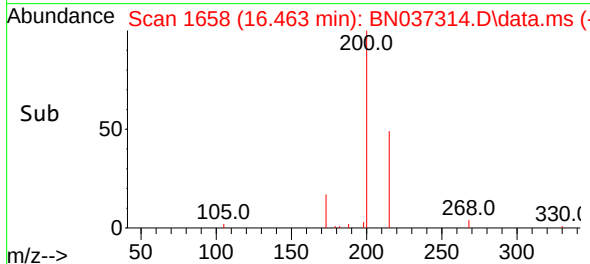
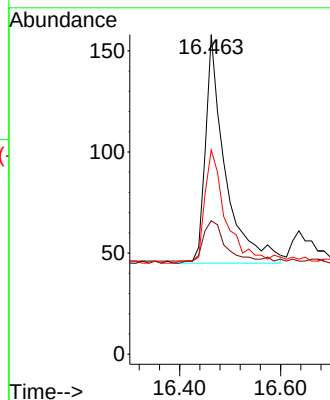
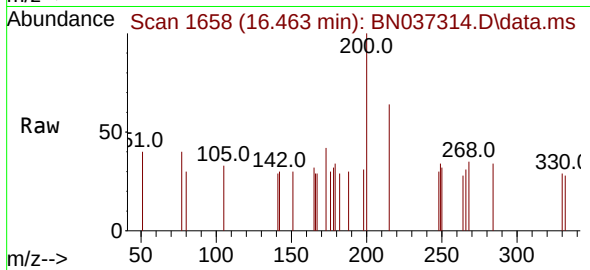
Tgt Ion:200 Resp: 306

Ion Ratio Lower Upper

200 100

173 41.8 29.2 43.8

215 63.9 48.8 73.2



#24

Pentachlorophenol

Concen: 0.204 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

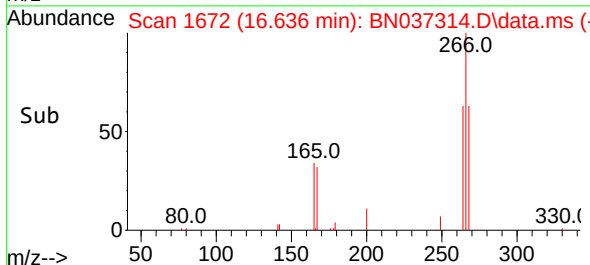
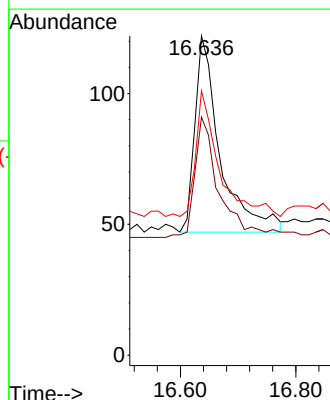
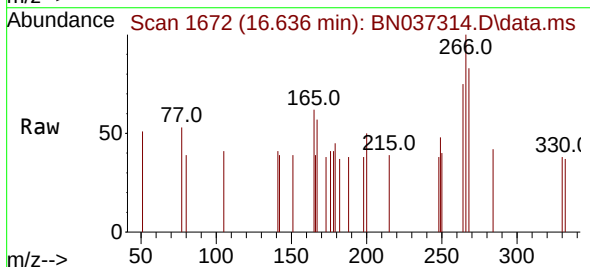
Tgt Ion:266 Resp: 229

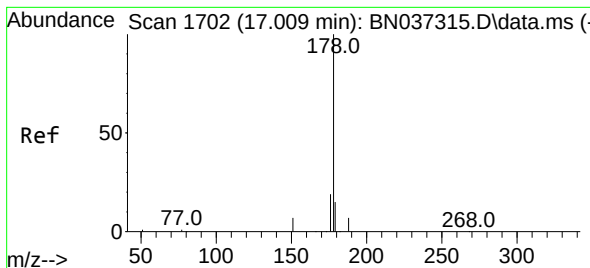
Ion Ratio Lower Upper

266 100

264 59.0 50.3 75.5

268 57.6 55.3 82.9





#25

Phenanthrene

Concen: 0.191 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.012 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

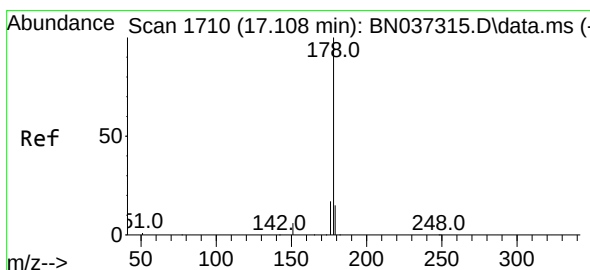
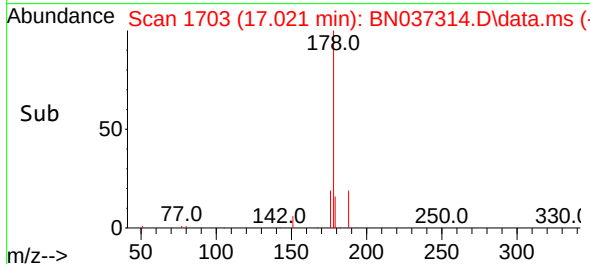
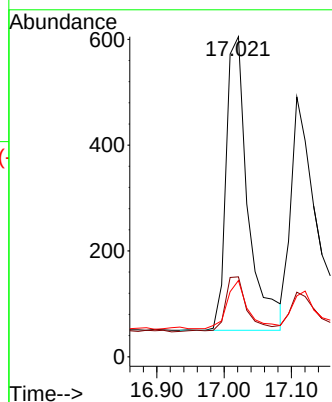
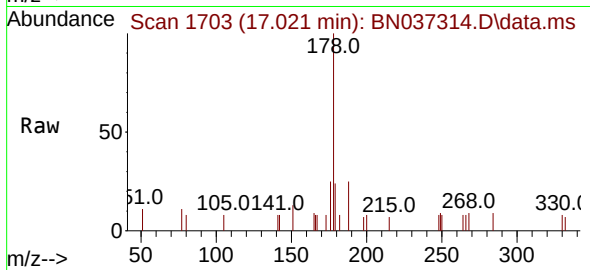
Tgt Ion:178 Resp: 1258

Ion Ratio Lower Upper

178 100

176 19.1 15.2 22.8

179 15.6 12.9 19.3



#26

Anthracene

Concen: 0.189 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

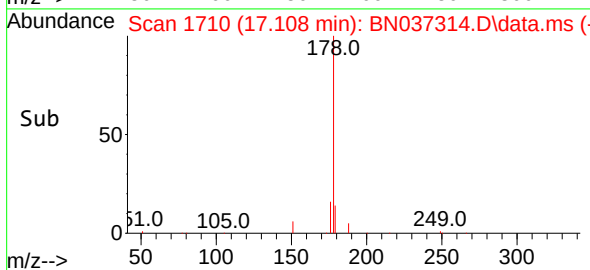
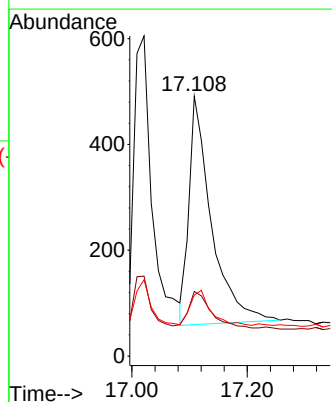
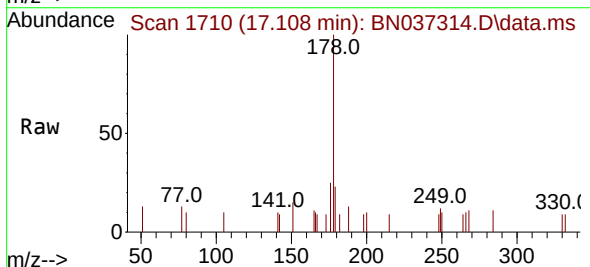
Tgt Ion:178 Resp: 1168

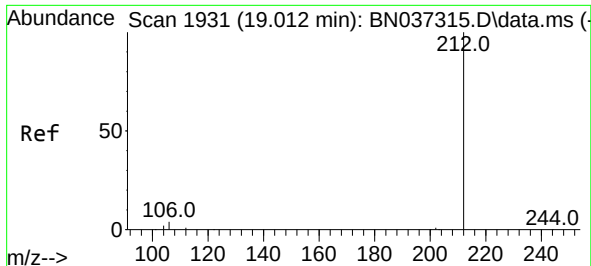
Ion Ratio Lower Upper

178 100

176 17.0 14.7 22.1

179 14.4 13.0 19.6

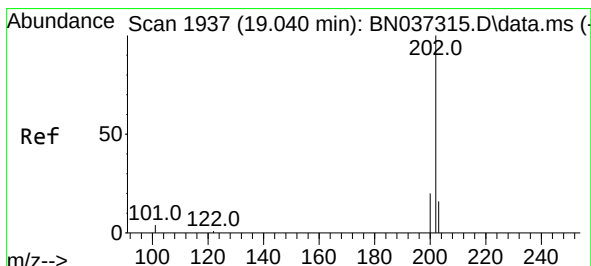
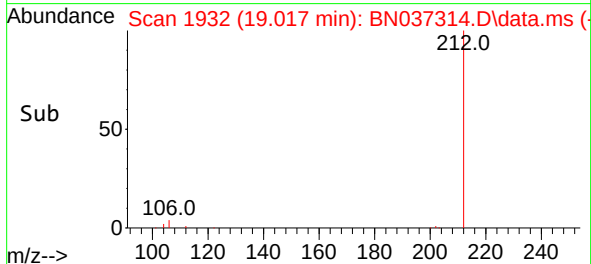
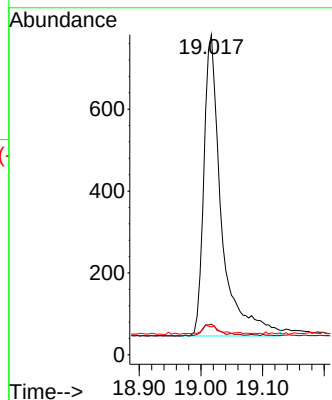
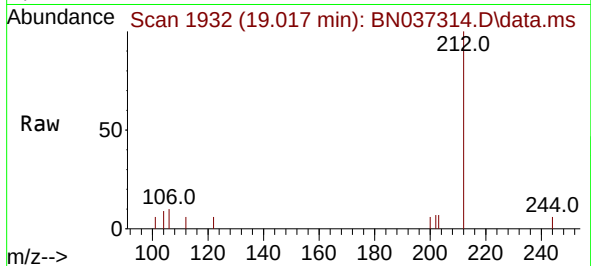




#27
Fluoranthene-d10
Concen: 0.197 ng
RT: 19.017 min Scan# 1931
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

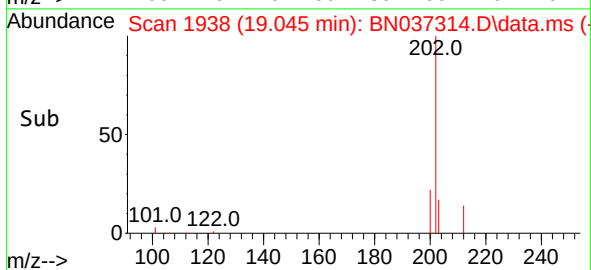
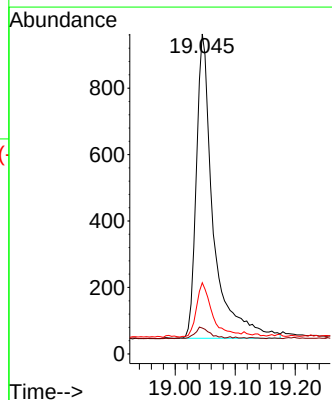
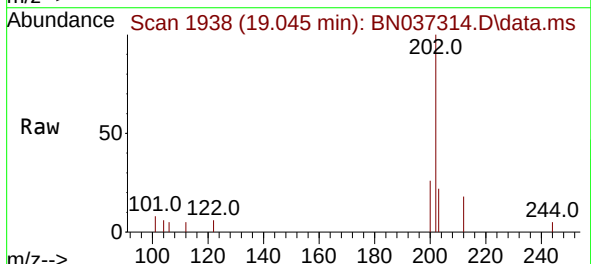
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

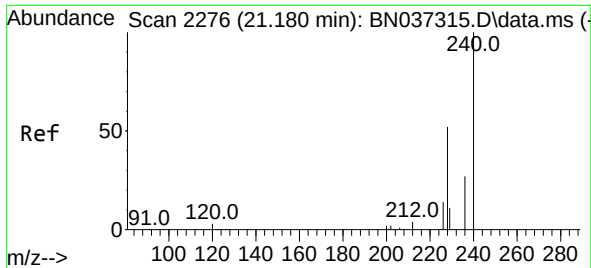
Tgt Ion:212 Resp: 1458
Ion Ratio Lower Upper
212 100
106 3.6 3.0 4.4
104 2.9 2.0 3.0



#28
Fluoranthene
Concen: 0.197 ng
RT: 19.045 min Scan# 1938
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:202 Resp: 1799
Ion Ratio Lower Upper
202 100
101 3.2 3.0 4.6
203 16.7 13.7 20.5

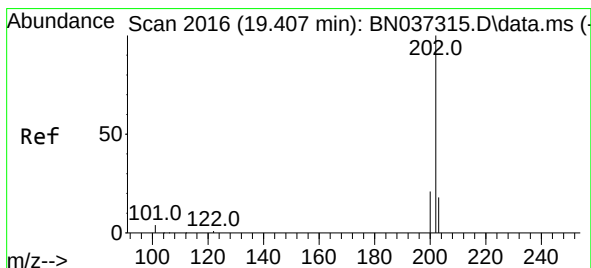
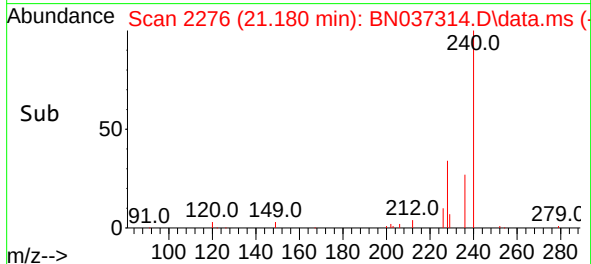
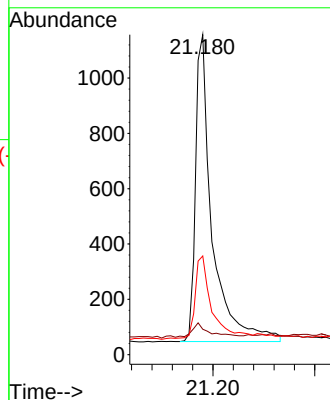
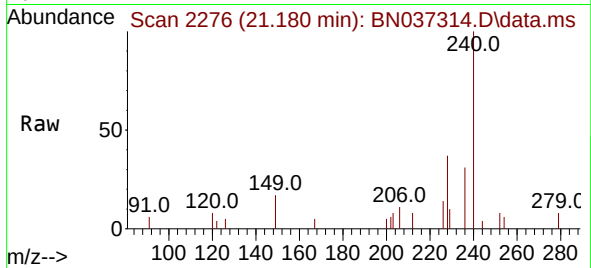




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.180 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

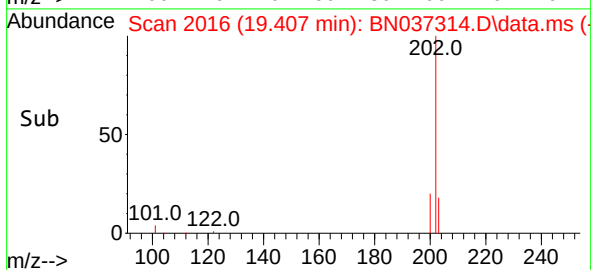
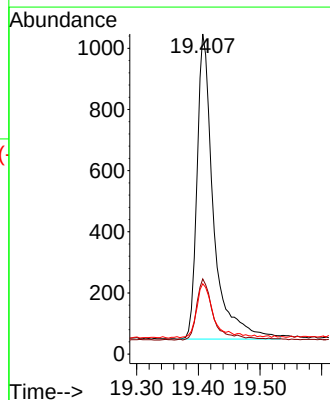
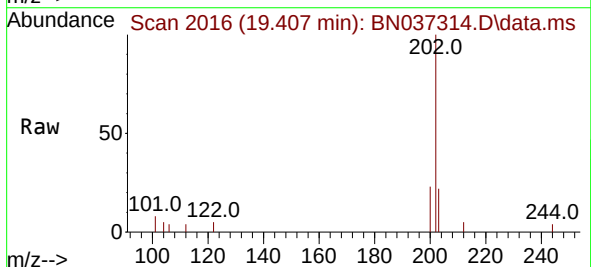
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

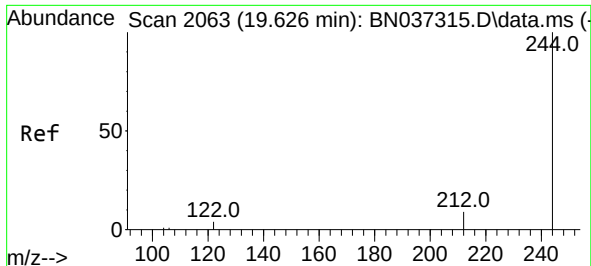
Tgt Ion:240 Resp: 2507
Ion Ratio Lower Upper
240 100
120 8.0 7.5 11.3
236 30.9 24.9 37.3



#30
Pyrene
Concen: 0.194 ng
RT: 19.407 min Scan# 2016
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:202 Resp: 1856
Ion Ratio Lower Upper
202 100
200 20.4 16.8 25.2
203 18.1 14.5 21.7

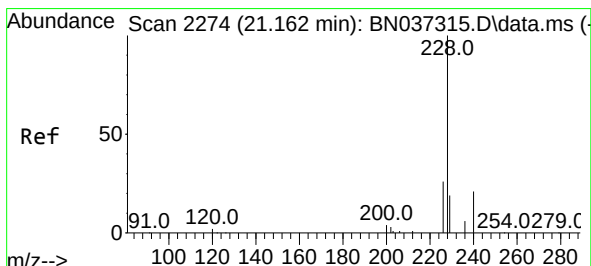
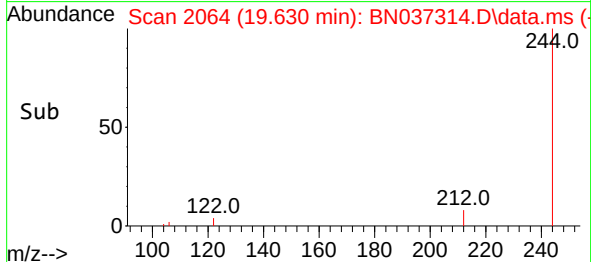
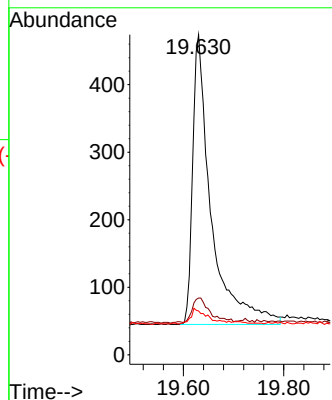
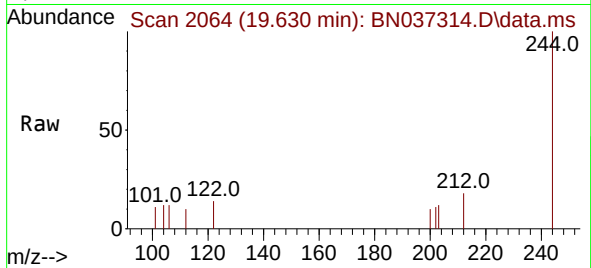




#31
Terphenyl-d14
Concen: 0.191 ng
RT: 19.630 min Scan# 2064
Delta R.T. 0.005 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

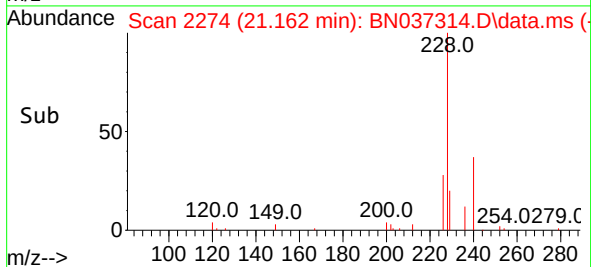
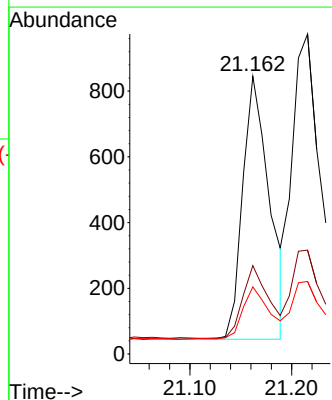
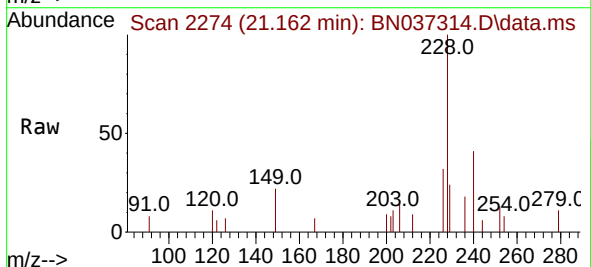
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

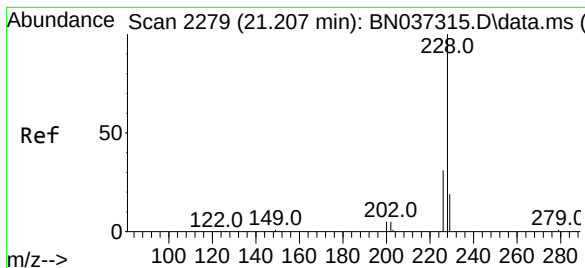
Tgt Ion:244 Resp: 1097
Ion Ratio Lower Upper
244 100
212 17.7 11.1 16.7#
122 13.7 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 0.181 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:228 Resp: 1461
Ion Ratio Lower Upper
228 100
226 31.8 23.0 34.4
229 24.1 17.4 26.0





#33

Chrysene

Concen: 0.210 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

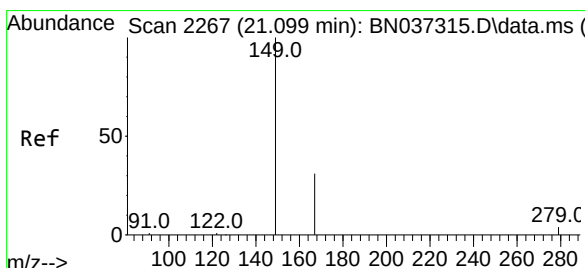
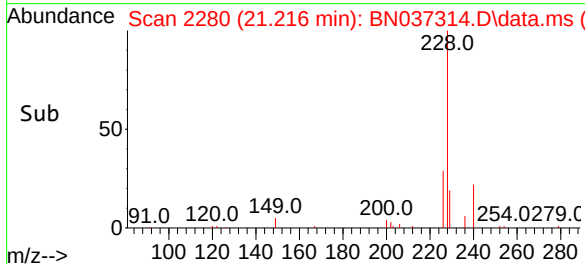
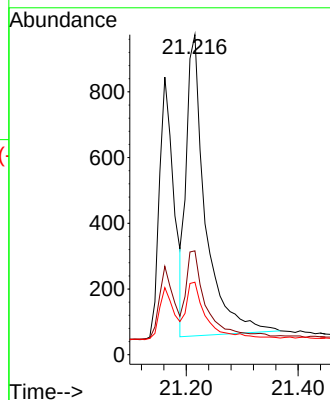
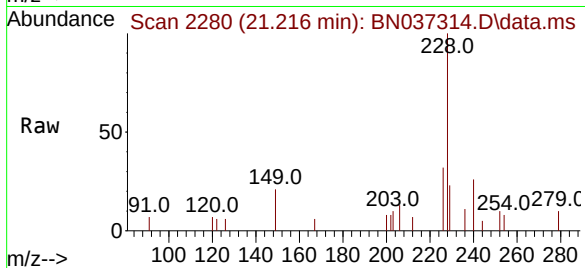
Tgt Ion:228 Resp: 2167

Ion Ratio Lower Upper

228 100

226 32.4 25.4 38.2

229 22.7 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.216 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037314.D

Acq: 18 Jun 2025 14:42

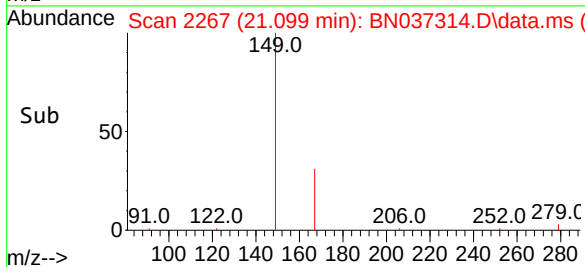
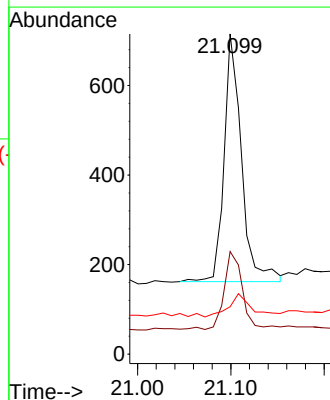
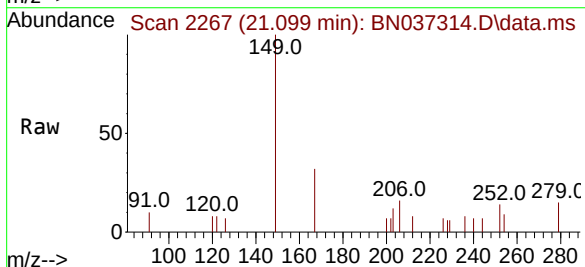
Tgt Ion:149 Resp: 714

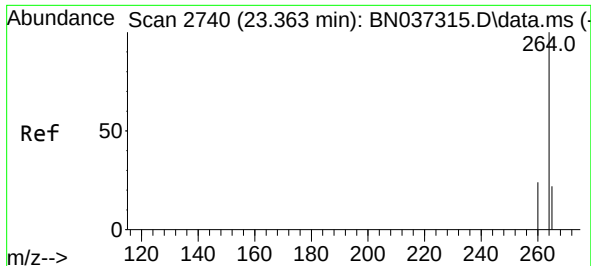
Ion Ratio Lower Upper

149 100

167 32.9 24.6 37.0

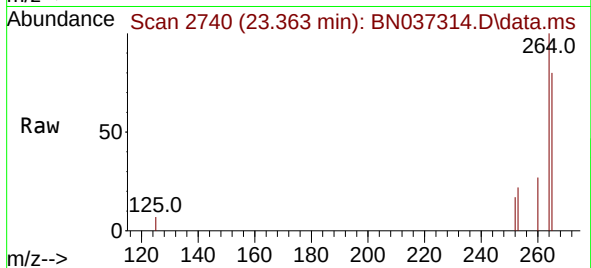
279 12.5 6.5 9.7#



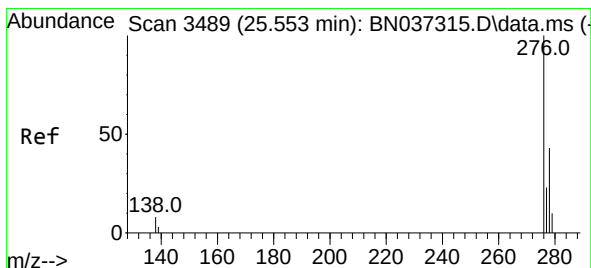
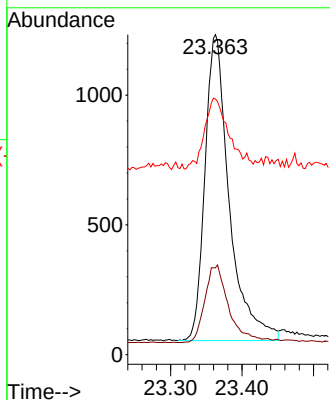


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.363 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

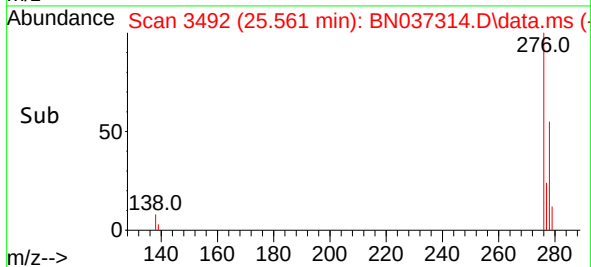
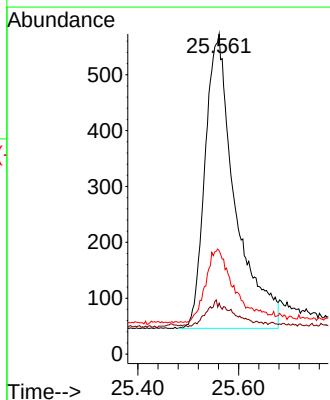
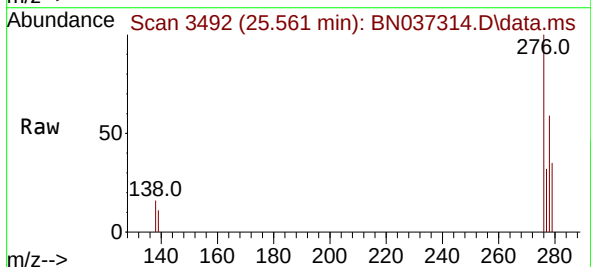


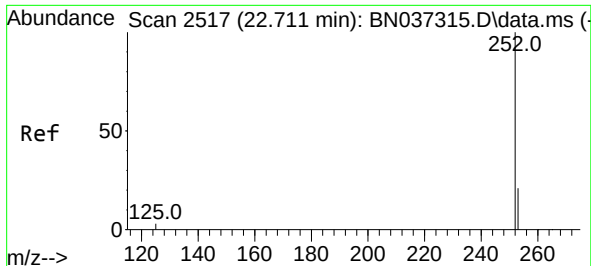
Tgt Ion:264 Resp: 2797
Ion Ratio Lower Upper
264 100
260 27.2 21.4 32.2
265 79.9 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.185 ng
RT: 25.561 min Scan# 3492
Delta R.T. 0.009 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Tgt Ion:276 Resp: 2171
Ion Ratio Lower Upper
276 100
138 4.3 2.2 3.2#
277 22.4 17.1 25.7

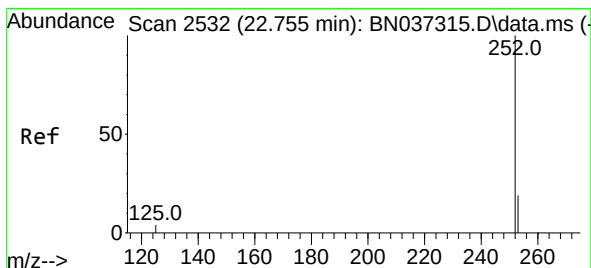
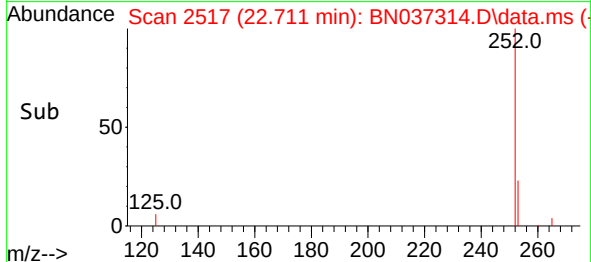
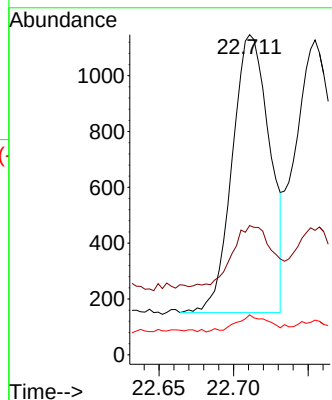
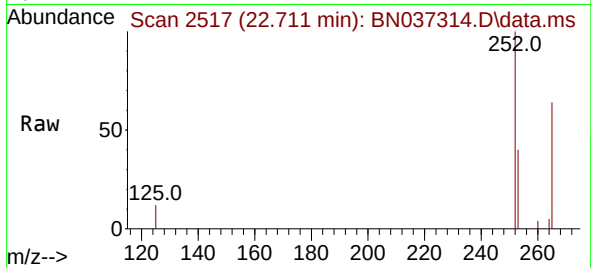




#37
Benzo(b)fluoranthene
Concen: 0.178 ng
RT: 22.711 min Scan# 2517
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

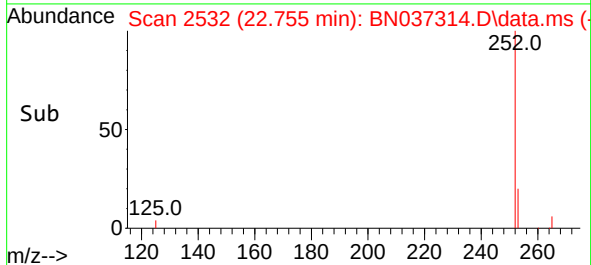
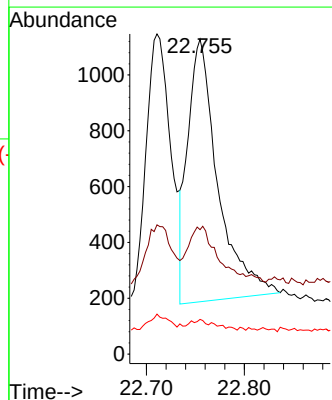
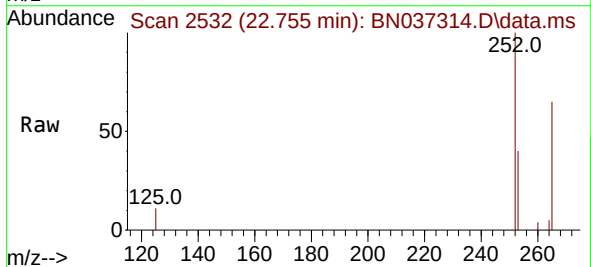
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

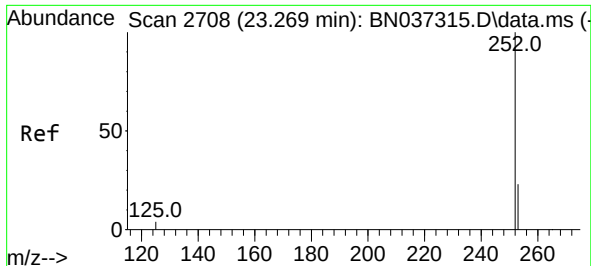
Tgt Ion:252 Resp: 1740
Ion Ratio Lower Upper
252 100
253 40.4 26.6 40.0#
125 12.5 6.1 9.1#



#38
Benzo(k)fluoranthene
Concen: 0.188 ng
RT: 22.755 min Scan# 2532
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

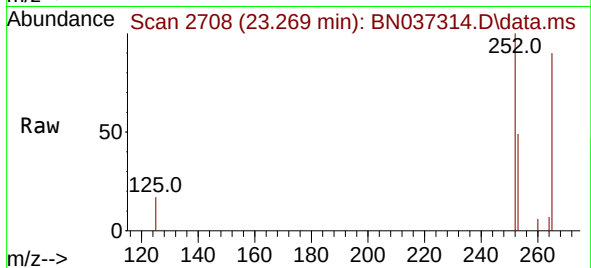
Tgt Ion:252 Resp: 2013
Ion Ratio Lower Upper
252 100
253 39.5 26.7 40.1
125 11.0 6.5 9.7#



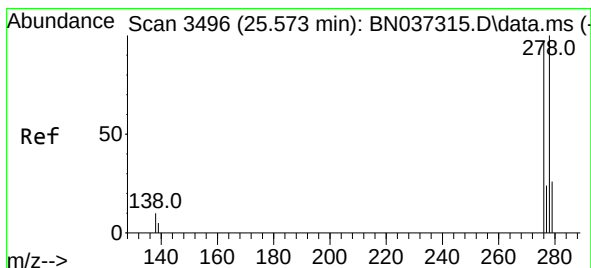
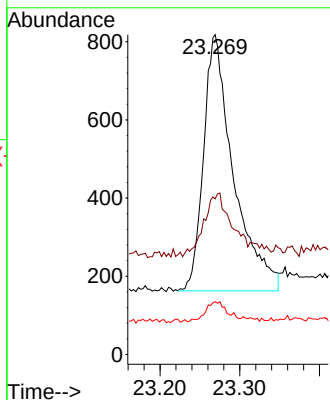
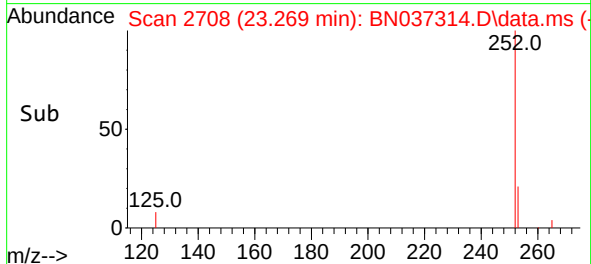


#39
Benzo(a)pyrene
Concen: 0.189 ng
RT: 23.269 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

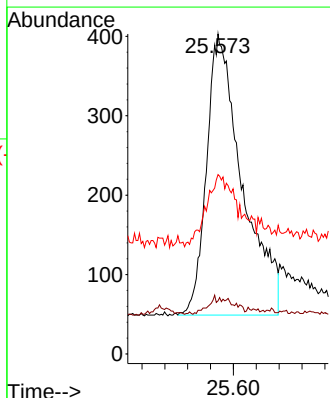
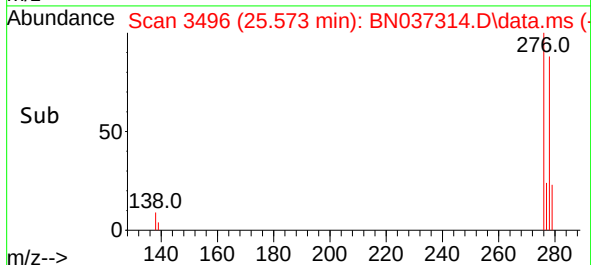
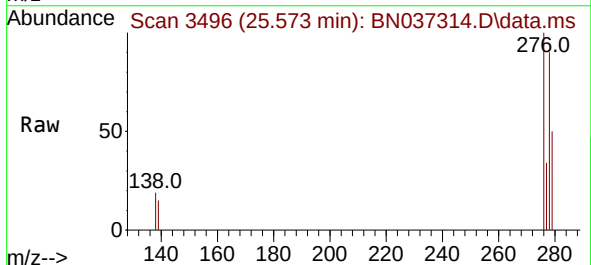


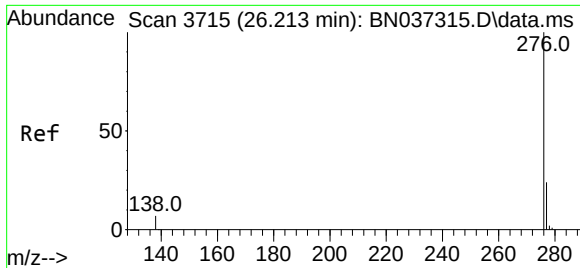
Tgt Ion:252 Resp: 1711
Ion Ratio Lower Upper
252 100
253 48.7 31.6 47.4#
125 16.5 8.4 12.6#



#40
Dibenzo(a,h)anthracene
Concen: 0.164 ng
RT: 25.573 min Scan# 3496
Delta R.T. 0.000 min
Lab File: BN037314.D
Acq: 18 Jun 2025 14:42

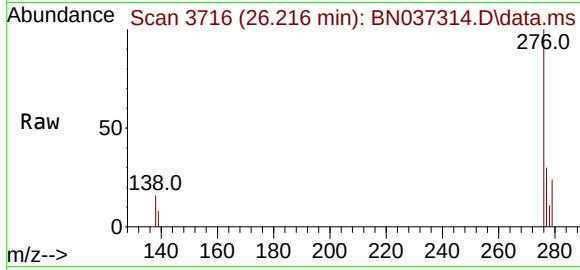
Tgt Ion:278 Resp: 1538
Ion Ratio Lower Upper
278 100
139 16.6 10.2 15.4#
279 56.1 35.6 53.4#



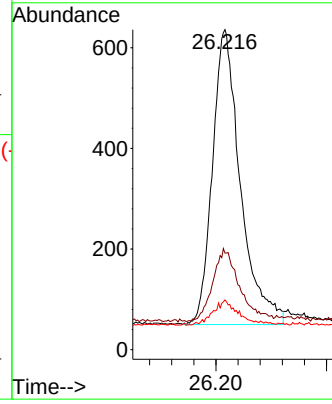
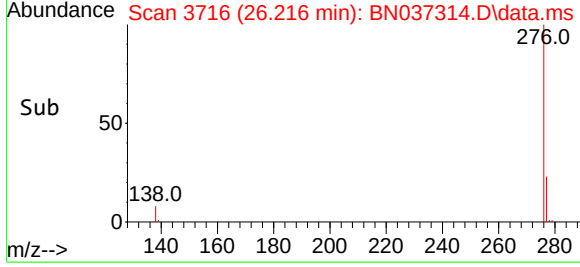


#41
 Benzo(g,h,i)perylene
 Concen: 0.191 ng
 RT: 26.216 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: BN037314.D
 Acq: 18 Jun 2025 14:42

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2



Tgt Ion:	276	Resp:	2056
Ion Ratio	Lower	Upper	
276	100		
277	30.2	22.7	34.1
138	15.6	9.4	14.2#



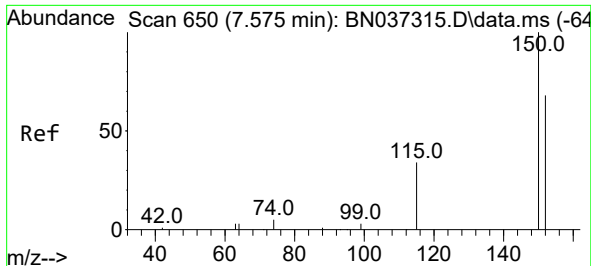
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037325.D
 Acq On : 18 Jun 2025 22:39
 Operator : RC/JU
 Sample : Q2329-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613

Quant Time: Jun 19 02:40:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

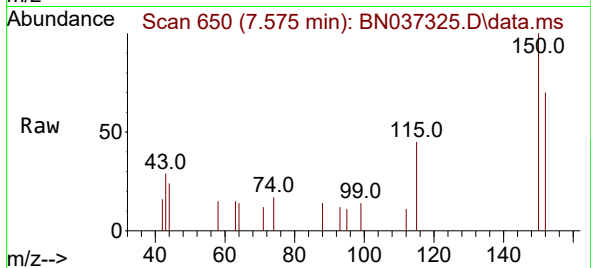
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	552	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1224	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	954	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	1976	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2039	0.400	ng	0.00
35) Perylene-d12	23.357	264	2136	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	175	0.174	ng	0.00
5) Phenol-d6	6.766	99	89	0.090	ng	0.00
8) Nitrobenzene-d5	8.728	82	328	0.322	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	825	0.415	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	269	0.382	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1653	0.395	ng	0.00
27) Fluoranthene-d10	19.008	212	2771	0.442	ng	0.00
31) Terphenyl-d14	19.616	244	2279	0.487	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	3.104	88	760	1.542	ng	# 82
3) n-Nitrosodimethylamine	3.408	42	15	0.026	ng	# 1
6) bis(2-Chloroethyl)ether	7.012	93	5	0.006	ng	# 58
9) Naphthalene	10.404	128	97	0.031	ng	# 14
10) Hexachlorobutadiene	10.746	225	3	0.002	ng	# 62
12) 2-Methylnaphthalene	12.031	142	67	0.030	ng	# 82
16) Acenaphthylene	13.946	152	20	0.005	ng	# 53
17) Acenaphthene	14.288	154	76	0.029	ng	94
18) Fluorene	15.282	166	271	0.072	ng	97
20) 4,6-Dinitro-2-methylph...	15.389	198	5	0.008	ng	# 28
21) 4-Bromophenyl-phenylether	16.152	248	7	0.004	ng	# 68
22) Hexachlorobenzene	16.276	284	11	0.006	ng	# 40
23) Atrazine	16.400	200	7	0.005	ng	# 31
24) Pentachlorophenol	16.624	266	22	0.023	ng	# 71
25) Phenanthrene	17.009	178	2246	0.404	ng	99
26) Anthracene	17.009	178	2246	0.430	ng	99
28) Fluoranthene	19.040	202	1694	0.219	ng	# 95
30) Pyrene	19.402	202	926	0.119	ng	# 94
32) Benzo(a)anthracene	21.153	228	158	0.024	ng	# 41
33) Chrysene	21.206	228	214	0.026	ng	# 57
34) Bis(2-ethylhexyl)phtha...	21.099	149	438	0.163	ng	96
36) Indeno(1,2,3-cd)pyrene	25.570	276	9	0.001	ng	# 96
37) Benzo(b)fluoranthene	22.714	252	58	0.008	ng	# 1
38) Benzo(k)fluoranthene	22.775	252	8	0.001	ng	# 1
39) Benzo(a)pyrene	23.260	252	9	0.001	ng	# 1
40) Dibenzo(a,h)anthracene	25.567	278	1	0.000	ng	# 1
41) Benzo(g,h,i)perylene	26.202	276	3	0.000	ng	# 1

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



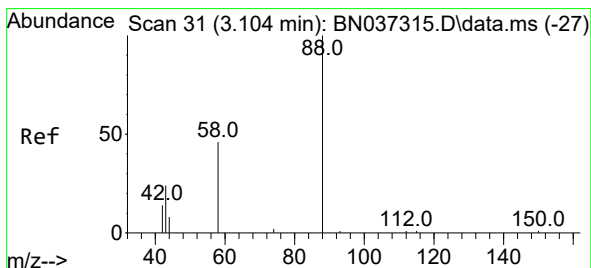
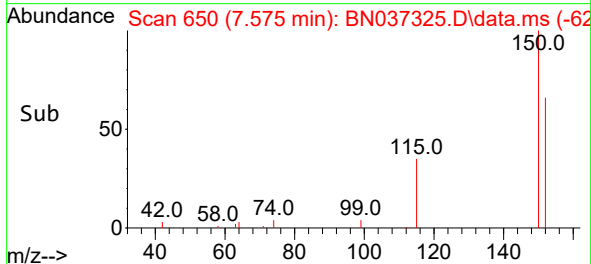
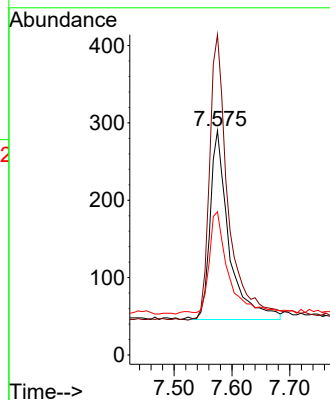
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613



Tgt Ion:152 Resp: 552

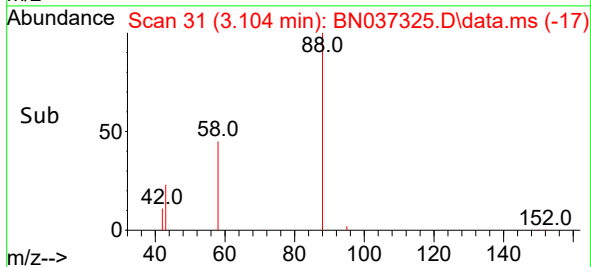
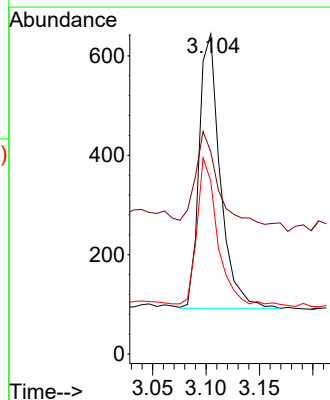
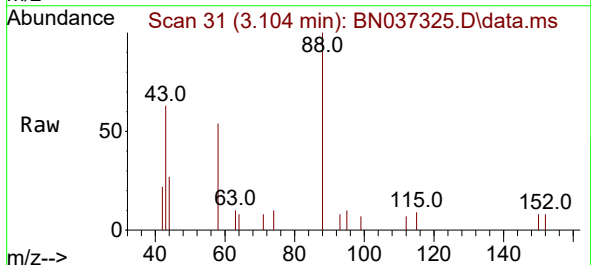
Ion	Ratio	Lower	Upper
152	100		
150	142.8	112.7	169.1
115	63.8	45.9	68.9

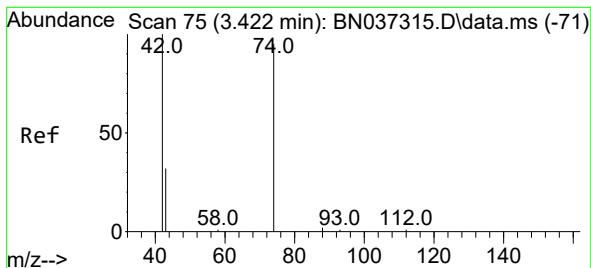


#2
 1,4-Dioxane
 Concen: 1.542 ng
 RT: 3.104 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

Tgt Ion: 88 Resp: 760

Ion	Ratio	Lower	Upper
88	100		
43	45.4	21.0	31.6#
58	52.5	38.0	57.0

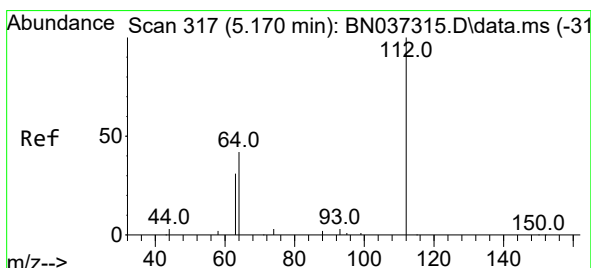
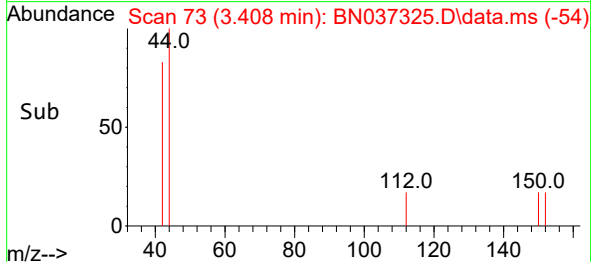
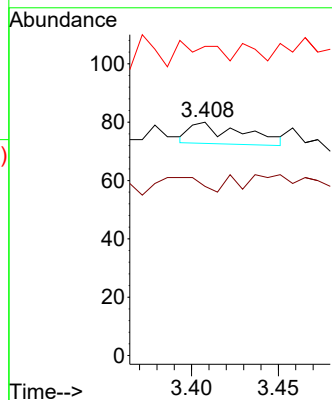
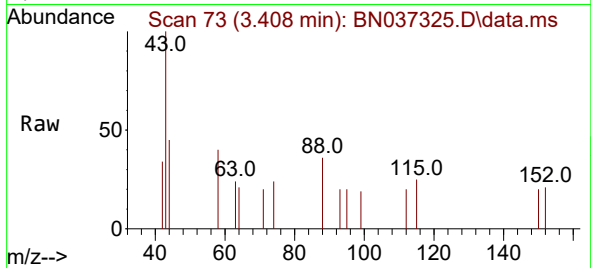




#3
n-Nitrosodimethylamine
Concen: 0.026 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

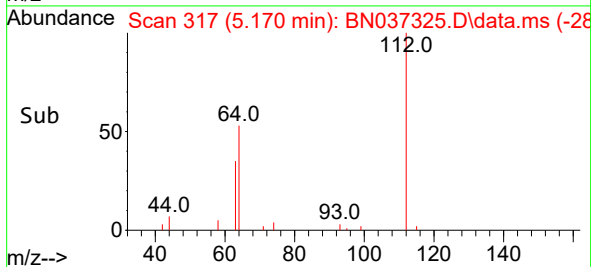
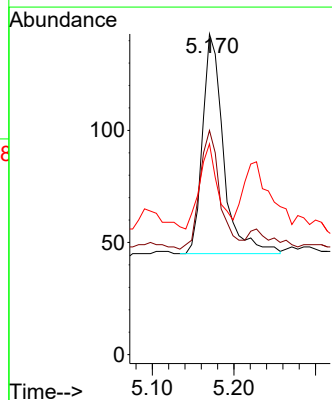
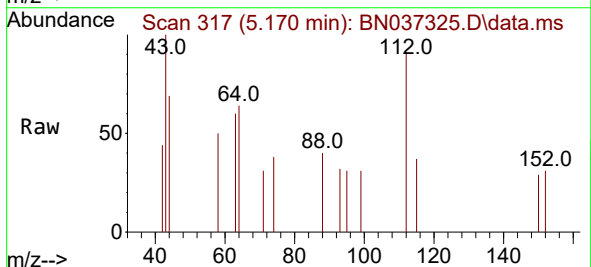
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

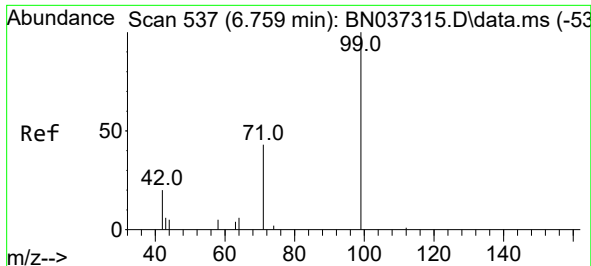
Tgt Ion: 42 Resp: 15
Ion Ratio Lower Upper
42 100
74 0.0 84.3 126.5#
44 86.7 5.0 7.4#



#4
2-Fluorophenol
Concen: 0.174 ng
RT: 5.170 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion: 112 Resp: 175
Ion Ratio Lower Upper
112 100
64 51.4 38.7 58.1
63 34.9 26.4 39.6

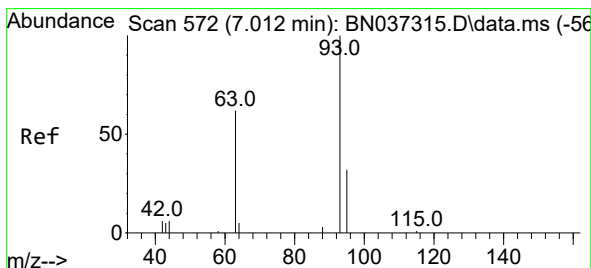
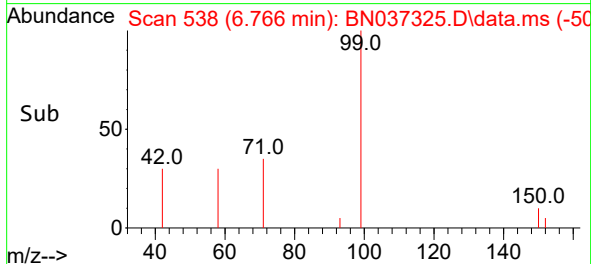
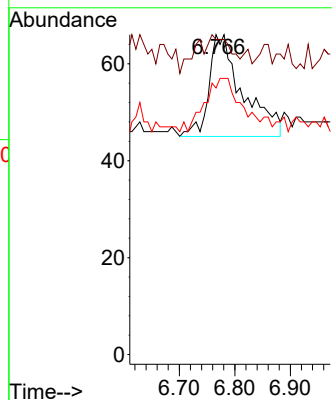
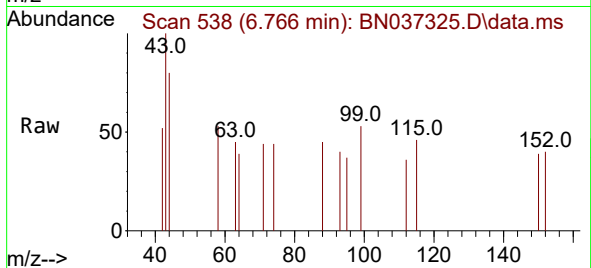




#5
Phenol-d6
Concen: 0.090 ng
RT: 6.766 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

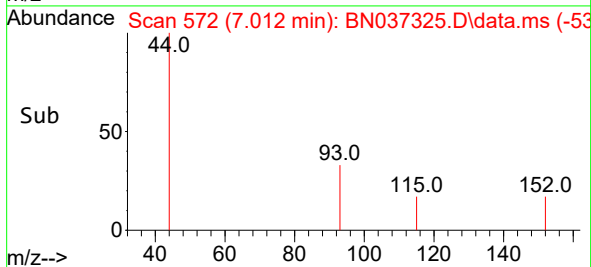
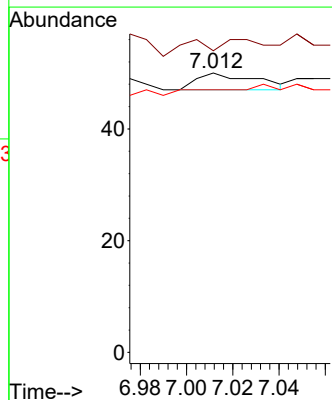
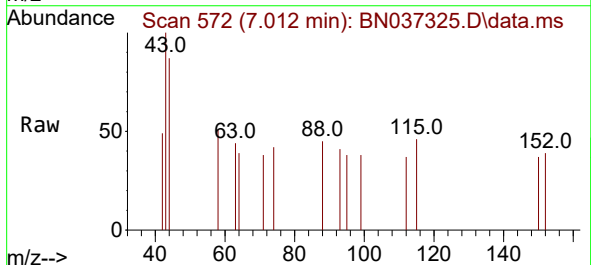
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

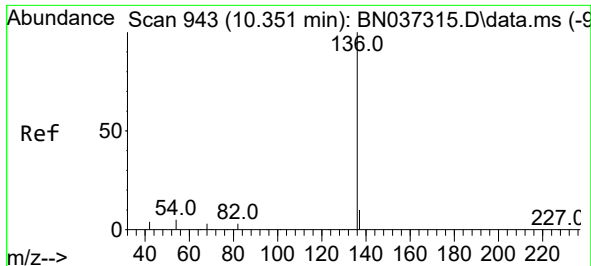
Tgt Ion: 99 Resp: 89
Ion Ratio Lower Upper
99 100
42 23.6 19.8 29.8
71 55.1 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.006 ng
RT: 7.012 min Scan# 572
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion: 93 Resp: 5
Ion Ratio Lower Upper
93 100
63 40.0 53.2 79.8#
95 0.0 27.3 40.9#

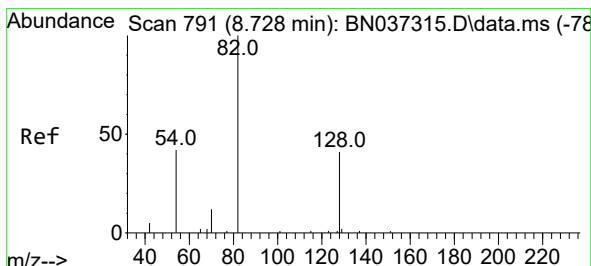
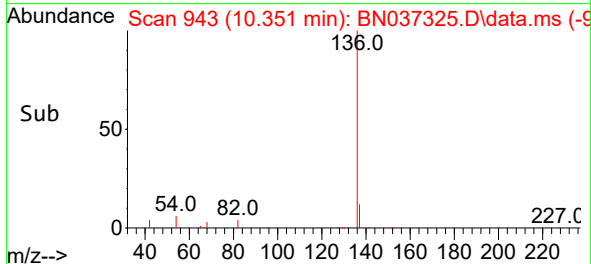
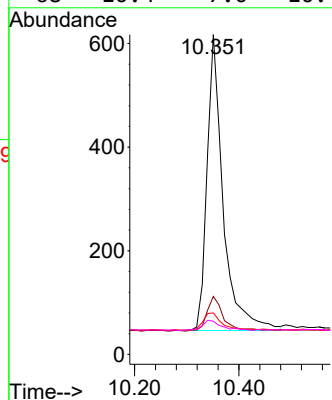
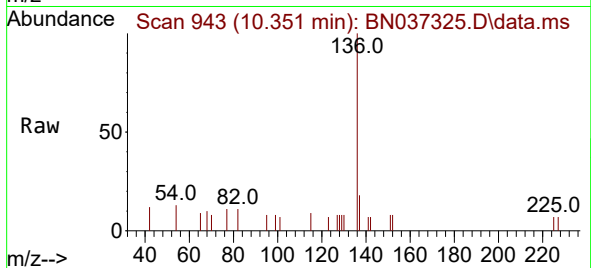




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

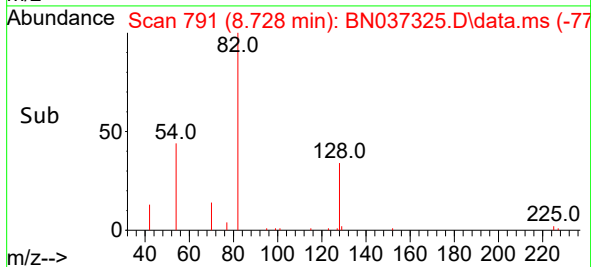
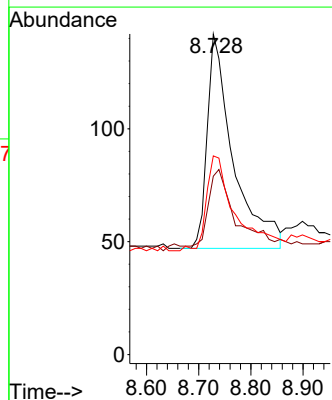
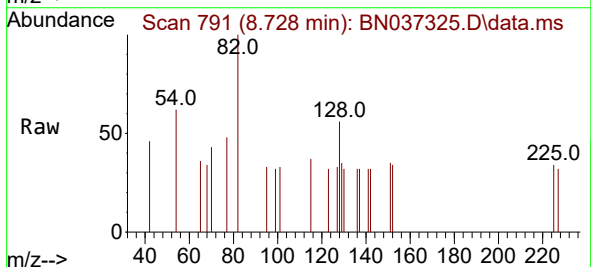
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

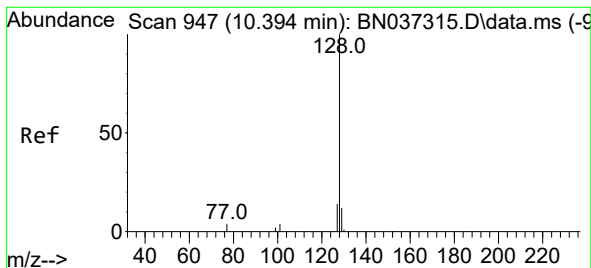
Tgt Ion:	136	Resp:	1224
Ion	Ratio	Lower	Upper
136	100		
137	18.2	12.2	18.2
54	13.0	8.8	13.2
68	10.4	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.322 ng
RT: 8.728 min Scan# 791
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:	82	Resp:	328
Ion	Ratio	Lower	Upper
82	100		
128	55.6	42.5	63.7
54	62.0	43.2	64.8





#9

Naphthalene

Concen: 0.031 ng

RT: 10.404 min Scan# 94

Delta R.T. 0.011 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613

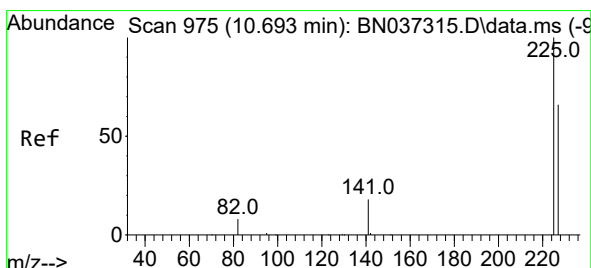
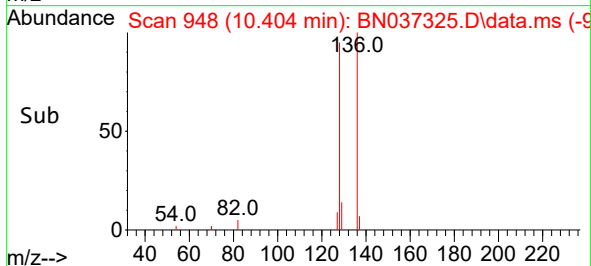
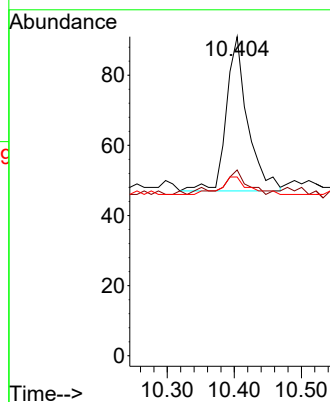
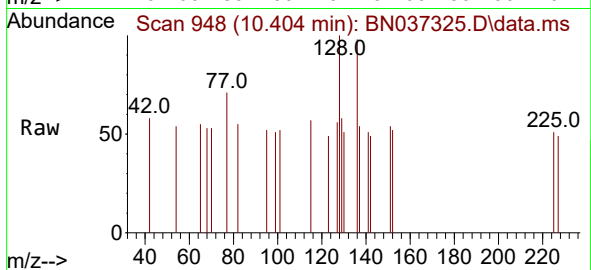
Tgt Ion:128 Resp: 97

Ion Ratio Lower Upper

128 100

129 58.2 14.0 21.0#

127 56.0 15.8 23.8#



#10

Hexachlorobutadiene

Concen: 0.002 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.053 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

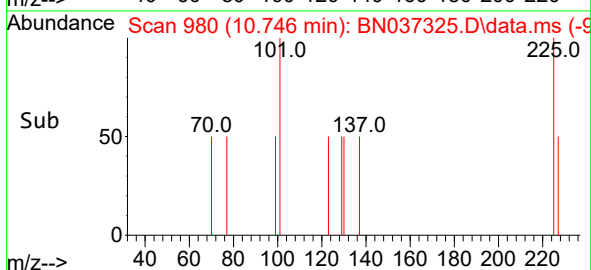
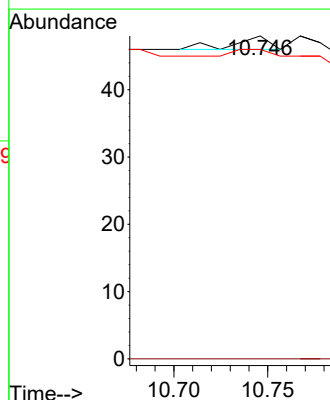
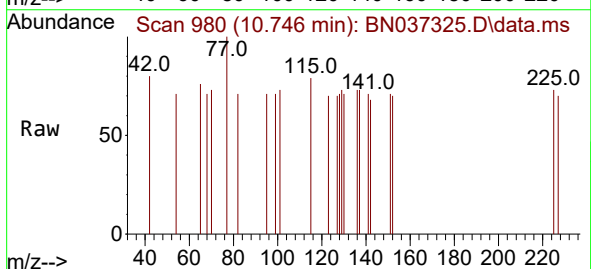
Tgt Ion:225 Resp: 3

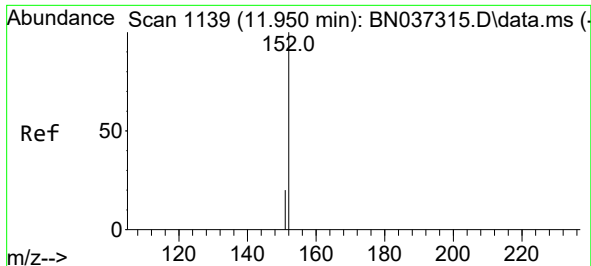
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 33.3 50.3 75.5#





#11

2-Methylnaphthalene-d10

Concen: 0.415 ng

RT: 11.950 min Scan# 1139

Delta R.T. -0.000 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

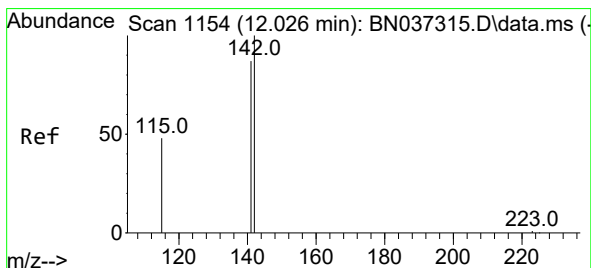
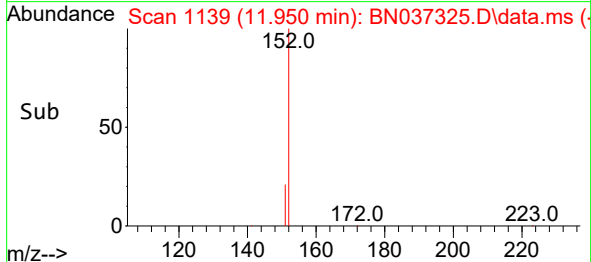
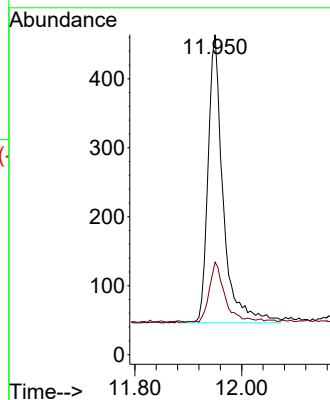
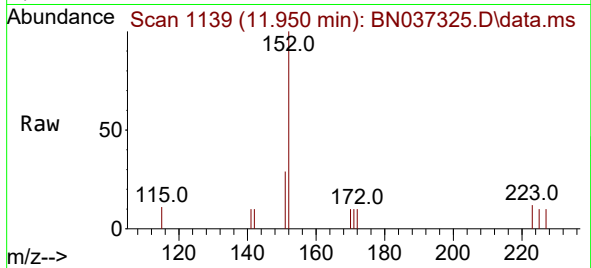
TT172S1-20250613

Tgt Ion:152 Resp: 825

Ion Ratio Lower Upper

152 100

151 20.7 17.4 26.0



#12

2-Methylnaphthalene

Concen: 0.030 ng

RT: 12.031 min Scan# 1155

Delta R.T. 0.005 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

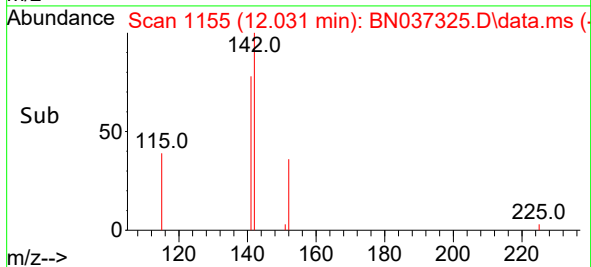
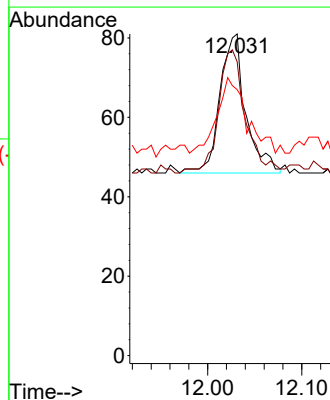
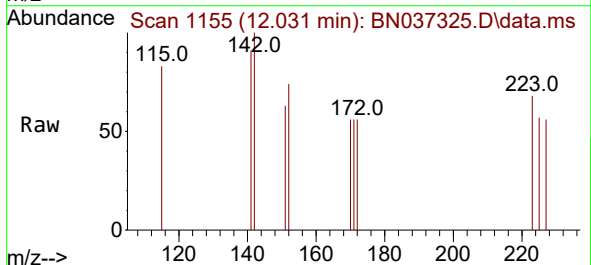
Tgt Ion:142 Resp: 67

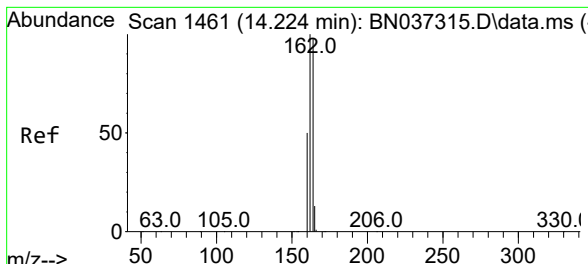
Ion Ratio Lower Upper

142 100

141 91.4 70.2 105.2

115 82.7 43.0 64.4#

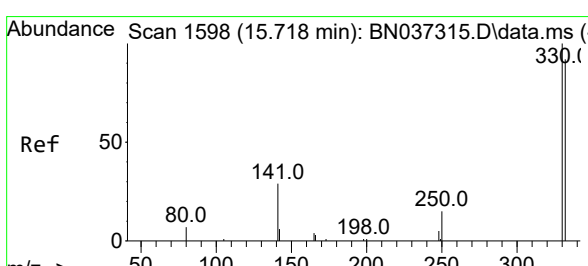
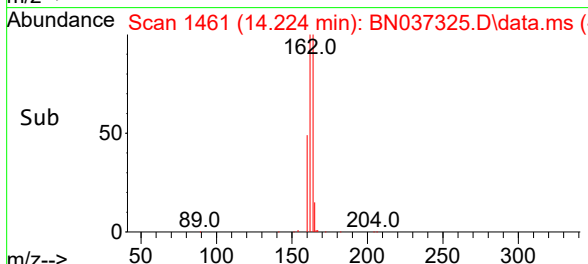
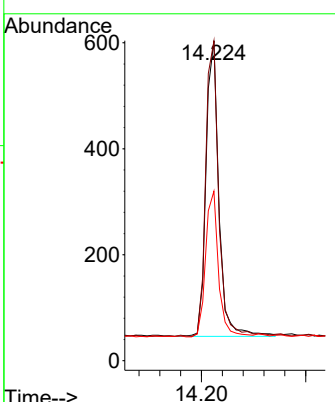
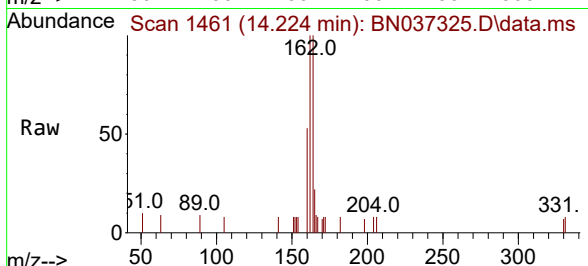




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.224 min Scan# 1461
 Delta R.T. -0.000 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

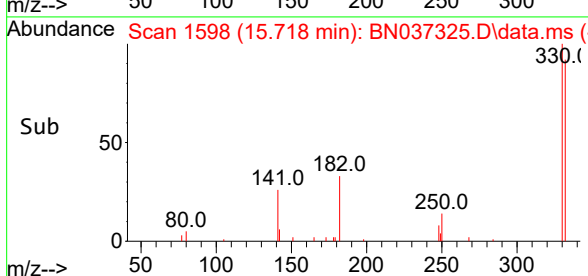
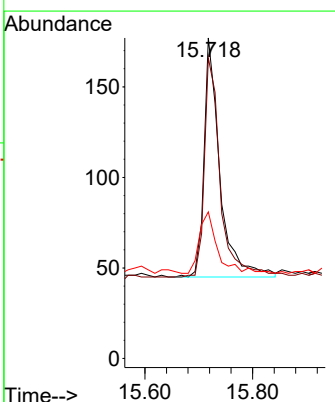
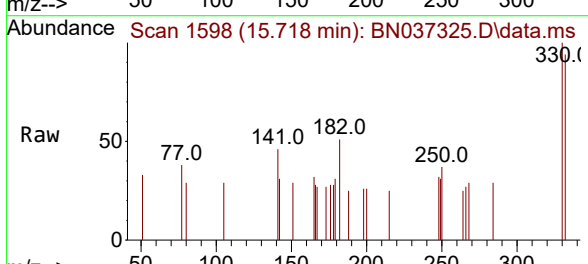
Instrument : BNA_N
 ClientSampleId : TT172S1-20250613

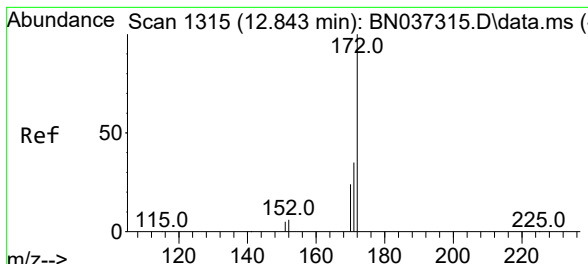
Tgt Ion:	164	Resp:	954
Ion	Ratio	Lower	Upper
164	100		
162	99.8	81.5	122.3
160	53.0	43.0	64.4



#14
 2,4,6-Tribromophenol
 Concen: 0.382 ng
 RT: 15.718 min Scan# 1598
 Delta R.T. -0.000 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

Tgt Ion:	330	Resp:	269
Ion	Ratio	Lower	Upper
330	100		
332	93.3	78.4	117.6
141	29.7	24.4	36.6

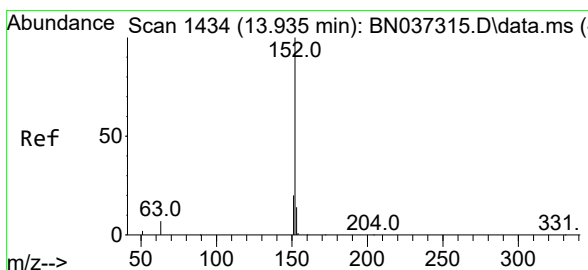
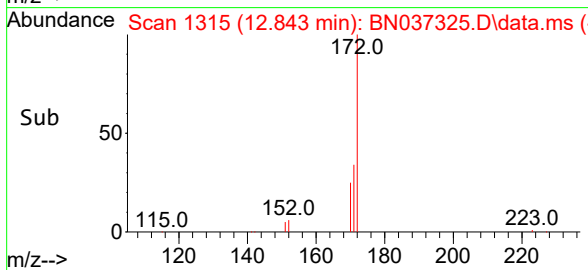
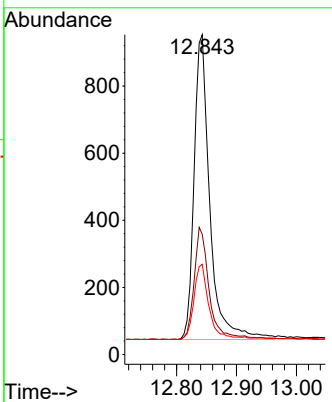
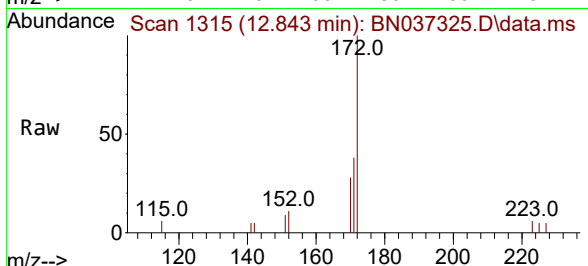




#15
 2-Fluorobiphenyl
 Concen: 0.395 ng
 RT: 12.843 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

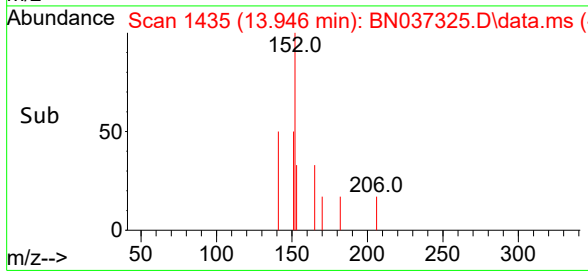
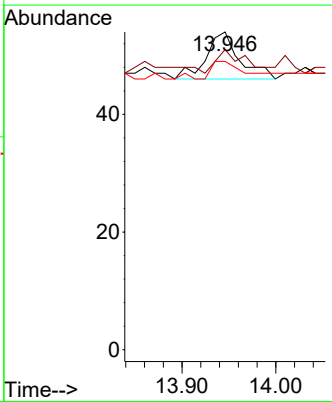
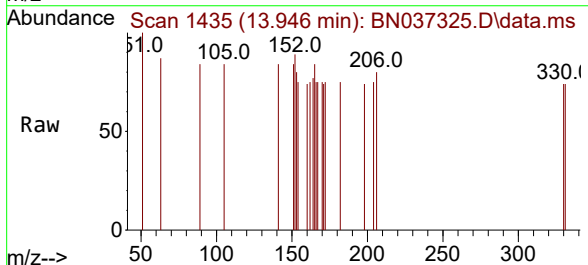
Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613

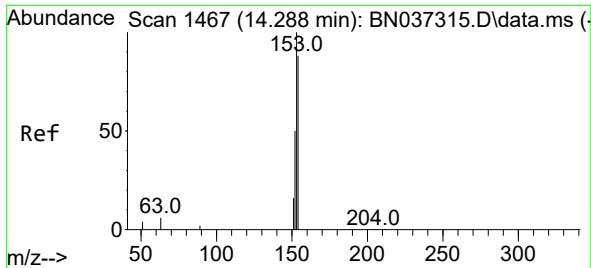
Tgt Ion:	172	Resp:	1653
Ion	Ratio	Lower	Upper
172	100		
171	37.6	30.8	46.2
170	28.2	21.9	32.9



#16
 Acenaphthylene
 Concen: 0.005 ng
 RT: 13.946 min Scan# 1435
 Delta R.T. 0.011 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

Tgt Ion:	152	Resp:	20
Ion	Ratio	Lower	Upper
152	100		
151	40.0	16.6	24.8#
153	35.0	10.2	15.2#

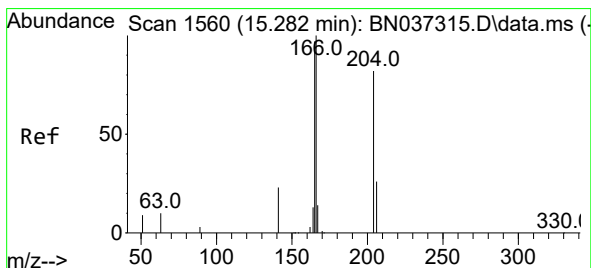
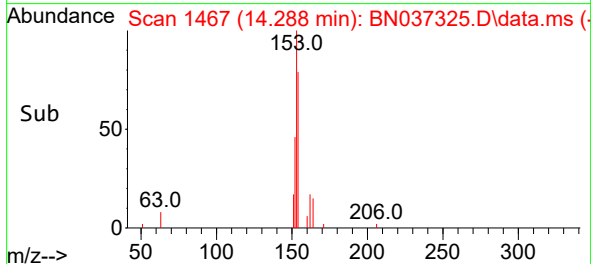
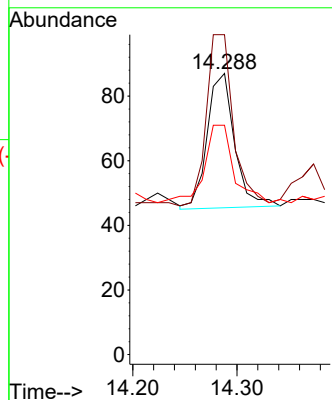
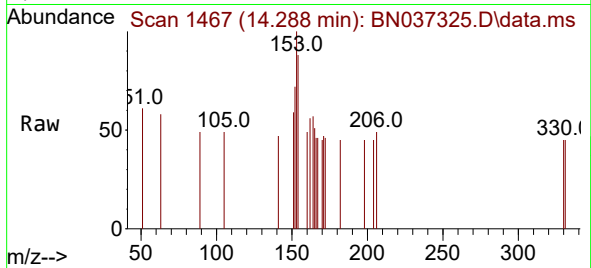




#17
Acenaphthene
Concen: 0.029 ng
RT: 14.288 min Scan# 1467
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

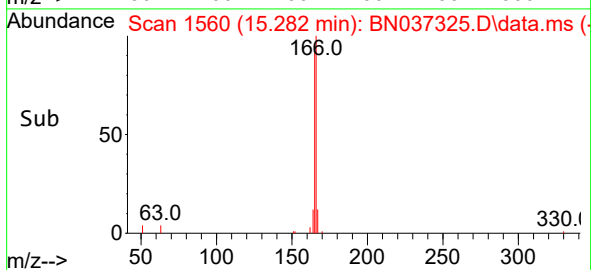
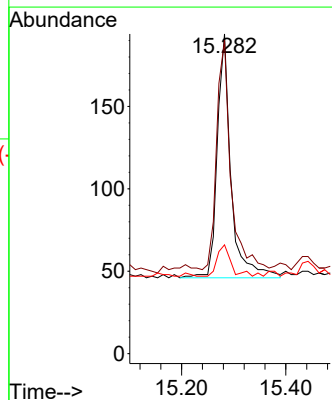
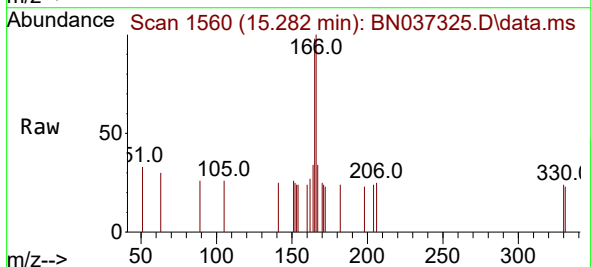
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

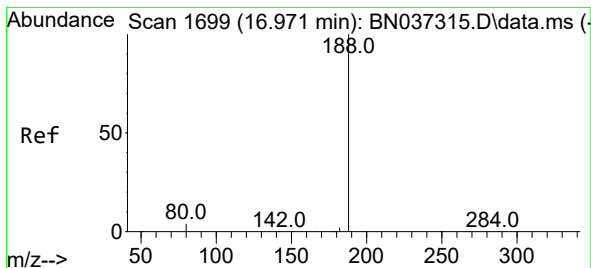
Tgt Ion:154 Resp: 76
Ion Ratio Lower Upper
154 100
153 126.3 93.1 139.7
152 61.8 48.6 73.0



#18
Fluorene
Concen: 0.072 ng
RT: 15.282 min Scan# 1560
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:166 Resp: 271
Ion Ratio Lower Upper
166 100
165 97.0 79.5 119.3
167 11.8 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: BN037325.D

Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613

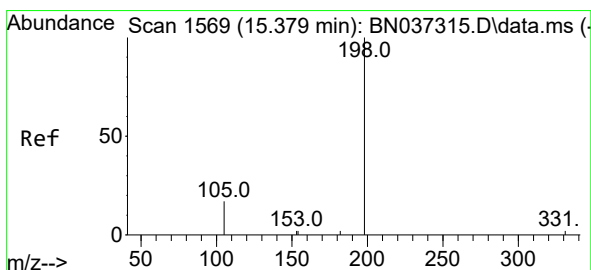
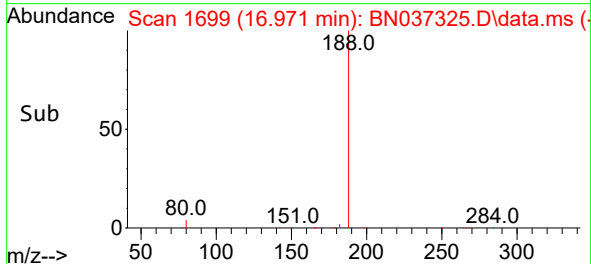
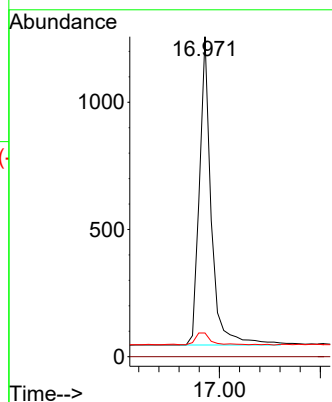
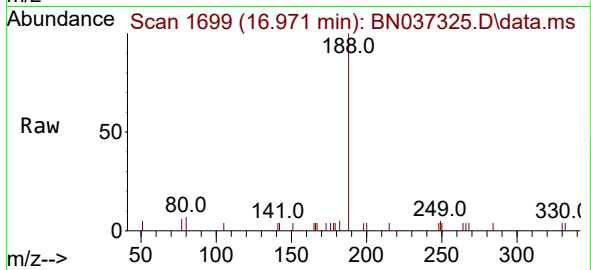
Tgt Ion:188 Resp: 1976

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.008 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.011 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

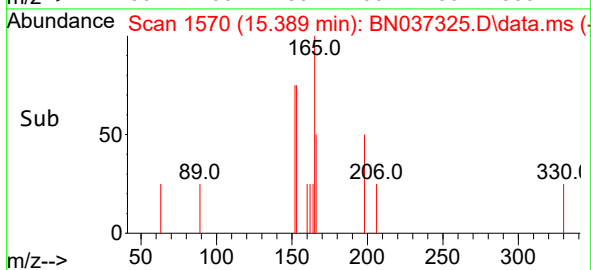
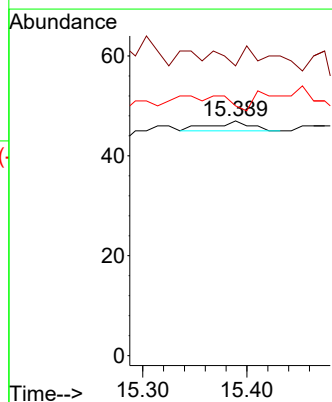
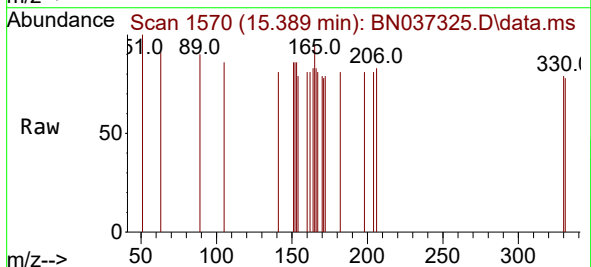
Tgt Ion:198 Resp: 5

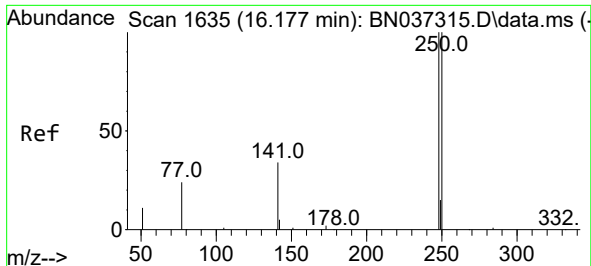
Ion Ratio Lower Upper

198 100

51 123.4 51.4 77.0#

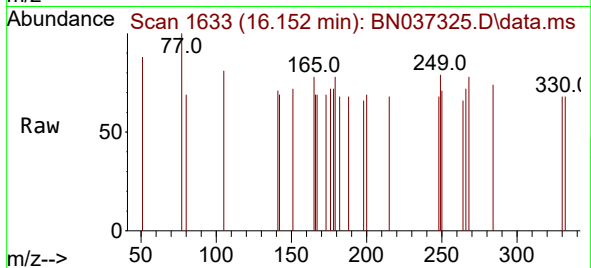
105 106.4 45.5 68.3#



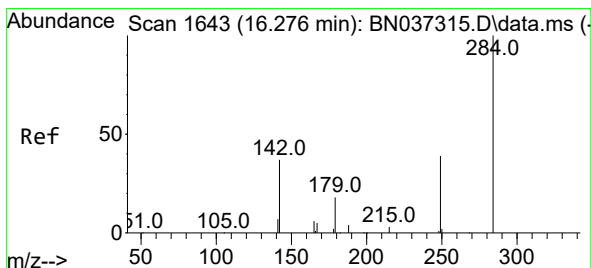
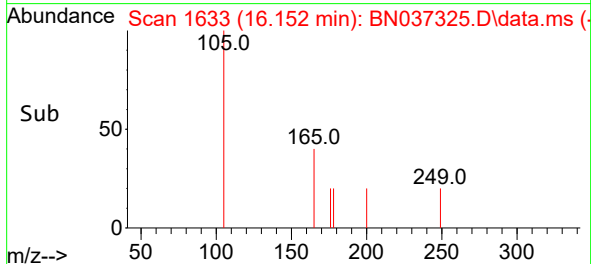
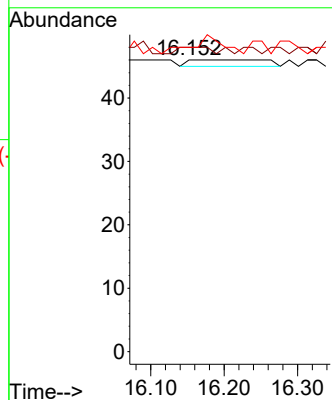


#21
4-Bromophenyl-phenylether
Concen: 0.004 ng
RT: 16.152 min Scan# 1633
Delta R.T. -0.025 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

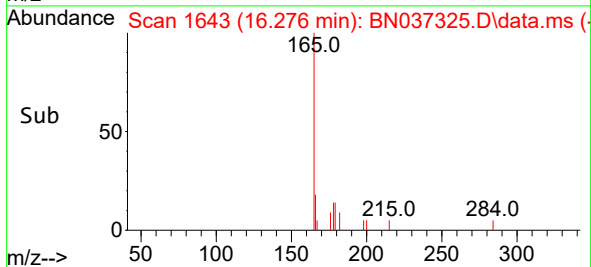
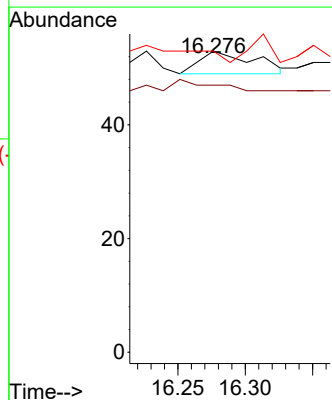
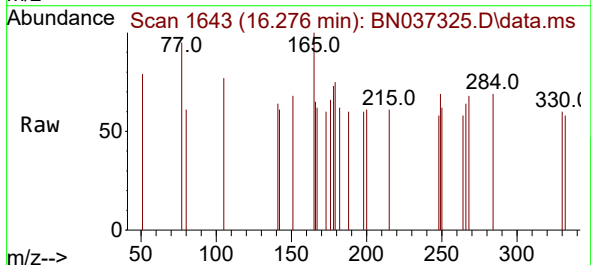


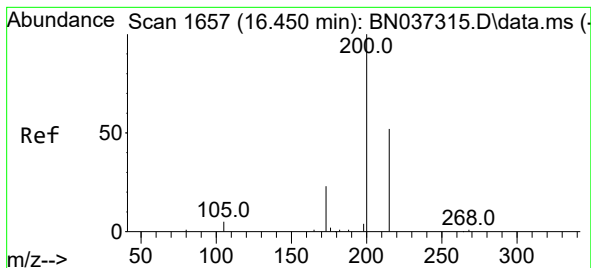
Tgt Ion:248 Resp: 7
Ion Ratio Lower Upper
248 100
250 104.3 80.4 120.6
141 104.3 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.006 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:284 Resp: 11
Ion Ratio Lower Upper
284 100
142 0.0 27.0 40.6#
249 0.0 28.8 43.2#





#23

Atrazine

Concen: 0.005 ng

RT: 16.400 min Scan# 1653

Delta R.T. -0.050 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613

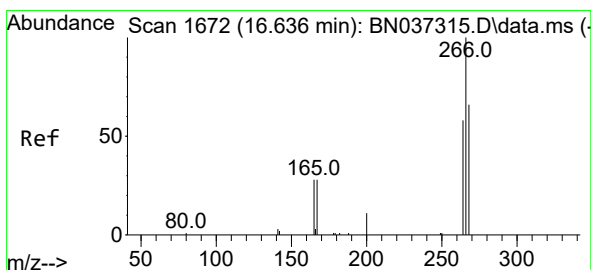
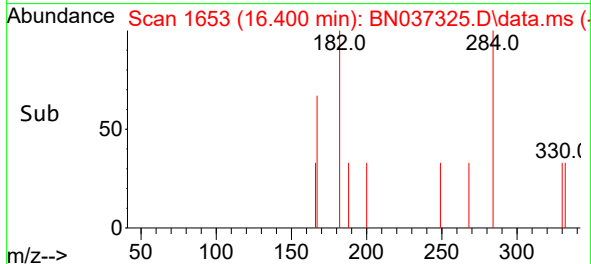
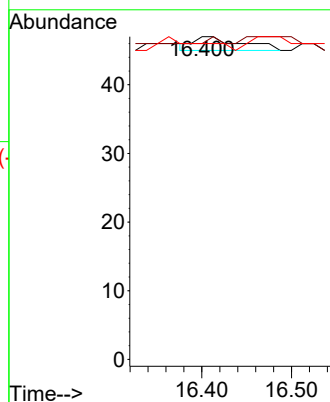
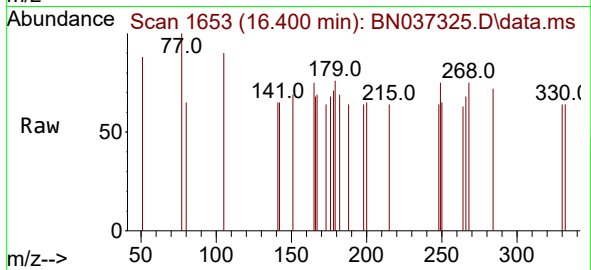
Tgt Ion:200 Resp: 7

Ion Ratio Lower Upper

200 100

173 97.9 29.2 43.8#

215 97.9 48.8 73.2#



#24

Pentachlorophenol

Concen: 0.023 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.013 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

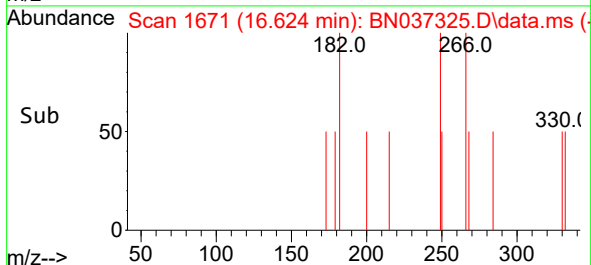
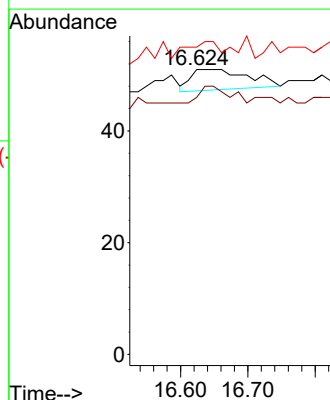
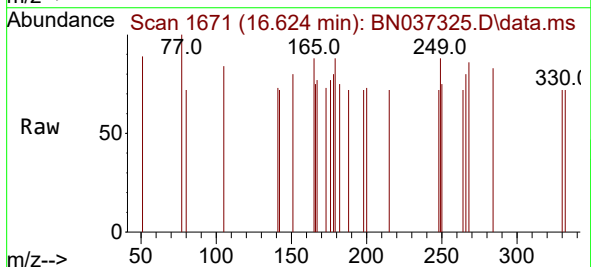
Tgt Ion:266 Resp: 22

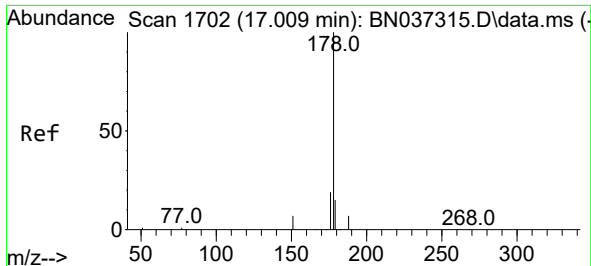
Ion Ratio Lower Upper

266 100

264 40.9 50.3 75.5#

268 45.5 55.3 82.9#

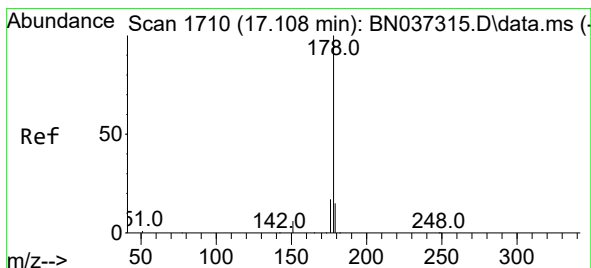
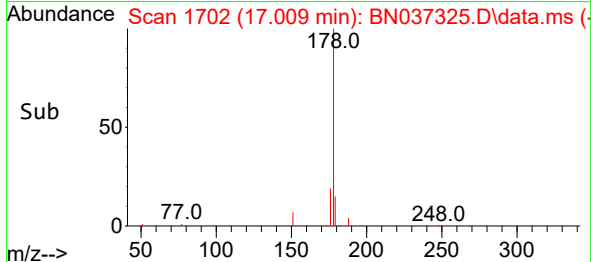
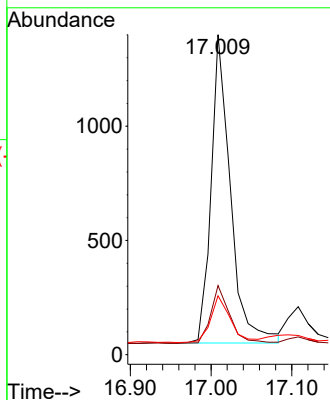
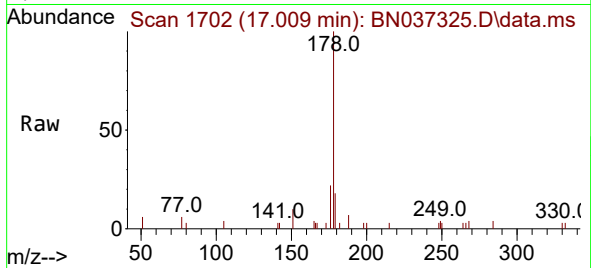




#25
Phenanthrene
Concen: 0.404 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

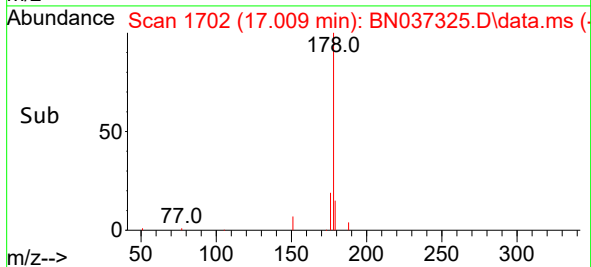
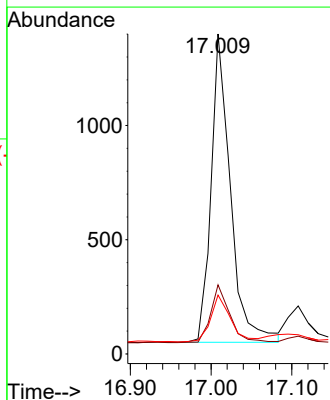
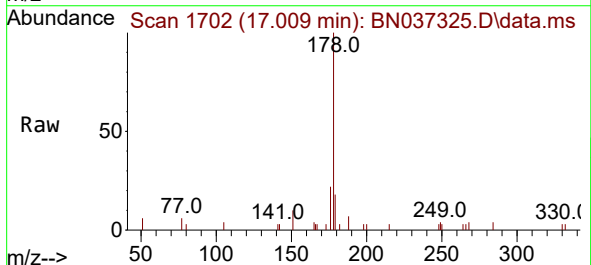
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

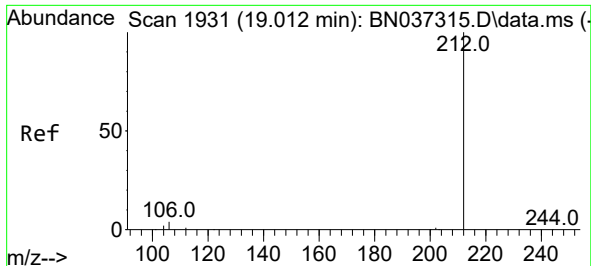
Tgt Ion:178	Resp:	2246
Ion Ratio	Lower	Upper
178	100	
176	18.2	15.2 22.8
179	15.7	12.9 19.3



#26
Anthracene
Concen: 0.430 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.099 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:178	Resp:	2246
Ion Ratio	Lower	Upper
178	100	
176	18.2	14.7 22.1
179	15.7	13.0 19.6

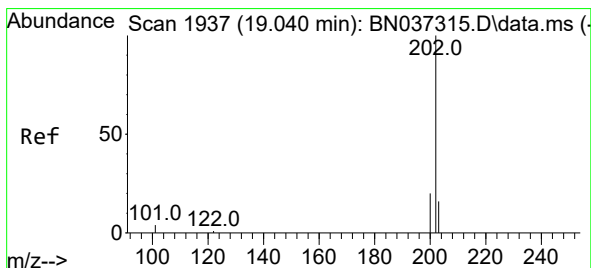
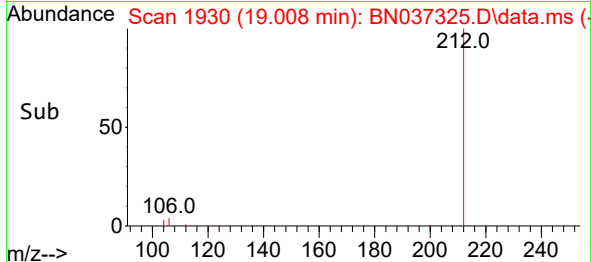
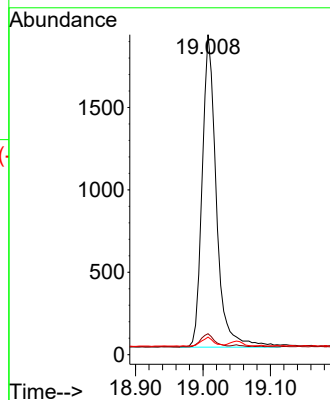
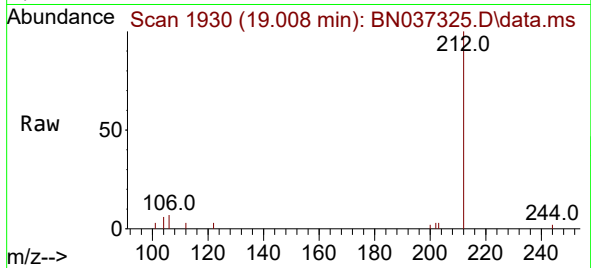




#27
Fluoranthene-d10
Concen: 0.442 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

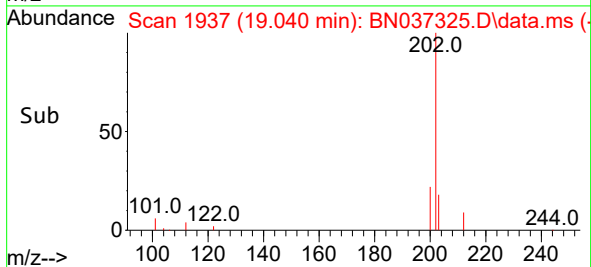
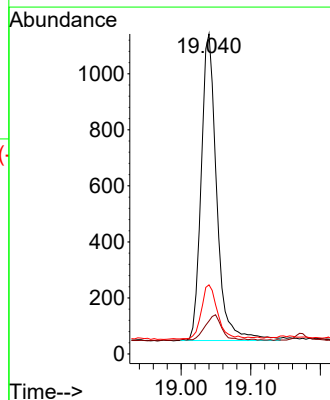
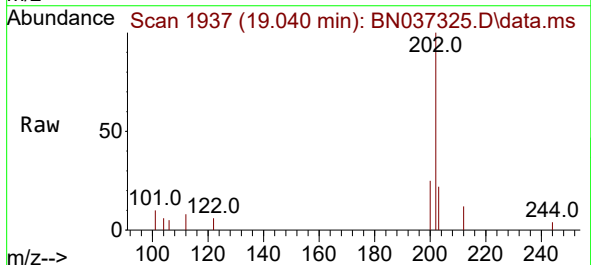
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

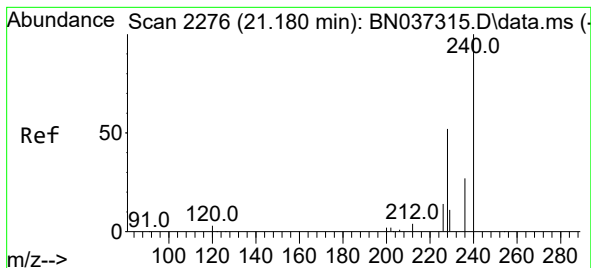
Tgt Ion:212	Resp:	2771
Ion Ratio	Lower	Upper
212	100	
106	4.0	3.0 4.4
104	2.4	2.0 3.0



#28
Fluoranthene
Concen: 0.219 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:202	Resp:	1694
Ion Ratio	Lower	Upper
202	100	
101	8.6	3.0 4.6#
203	18.2	13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613

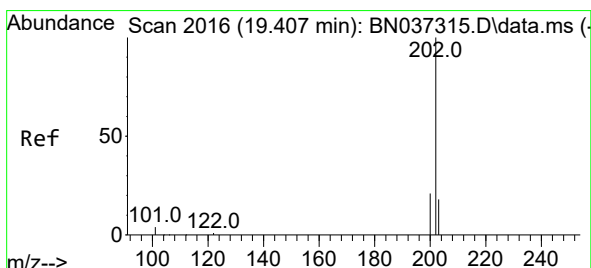
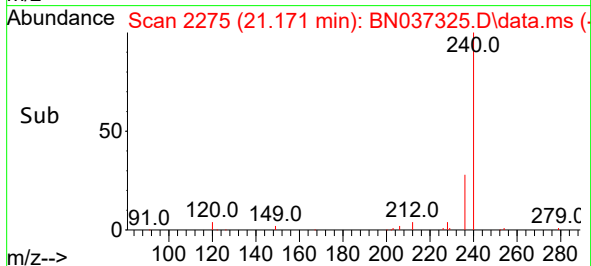
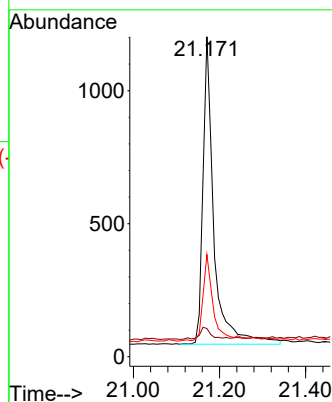
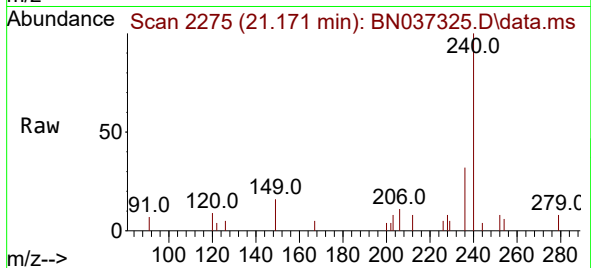
Tgt Ion:240 Resp: 2039

Ion Ratio Lower Upper

240 100

120 8.8 7.5 11.3

236 31.9 24.9 37.3



#30

Pyrene

Concen: 0.119 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.005 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

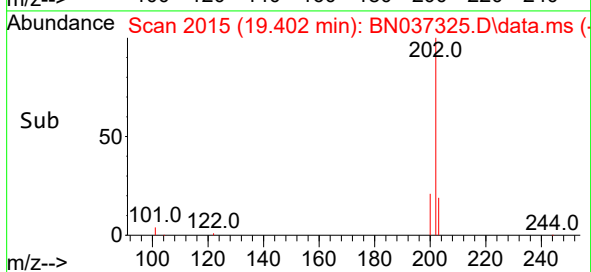
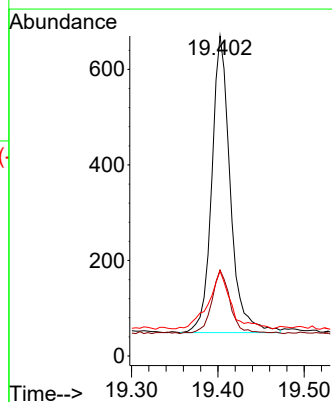
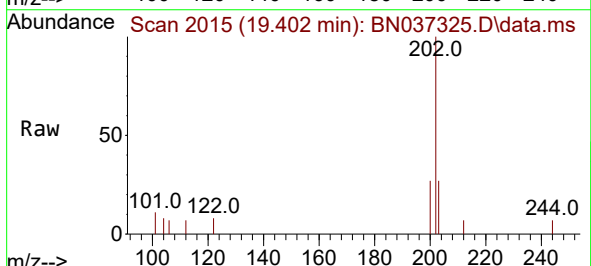
Tgt Ion:202 Resp: 926

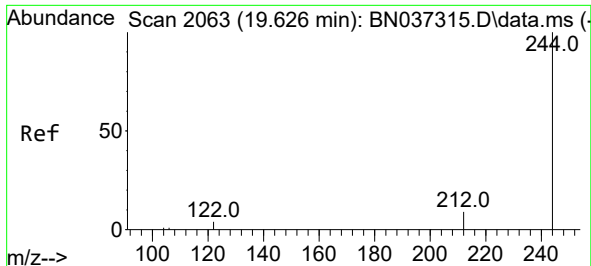
Ion Ratio Lower Upper

202 100

200 21.4 16.8 25.2

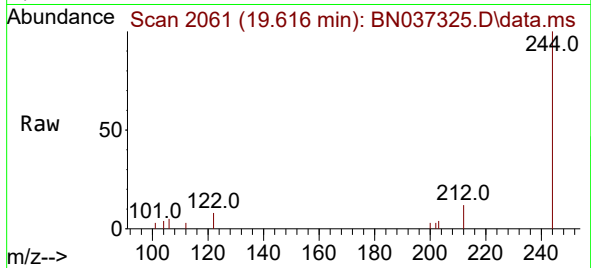
203 23.2 14.5 21.7#



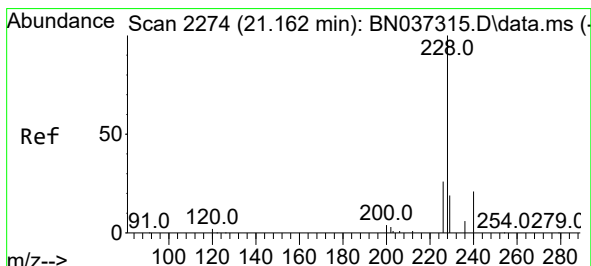
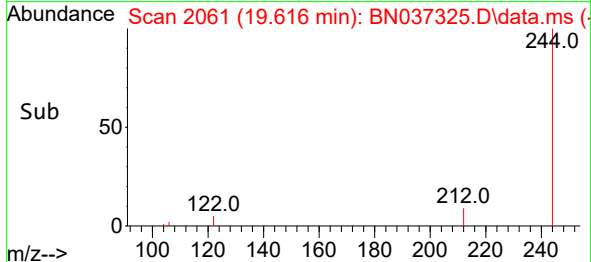
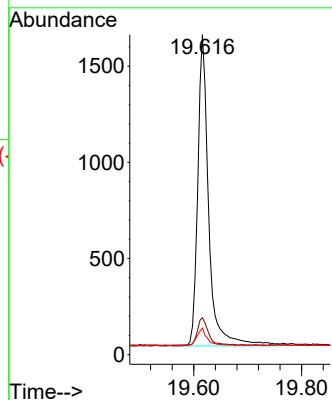


#31
Terphenyl-d14
Concen: 0.487 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

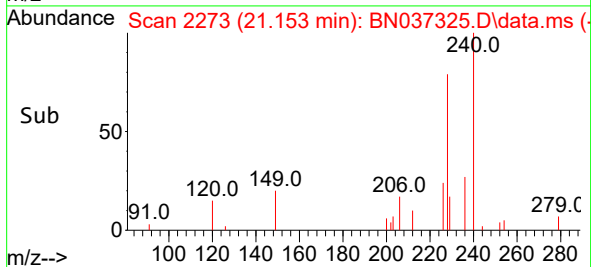
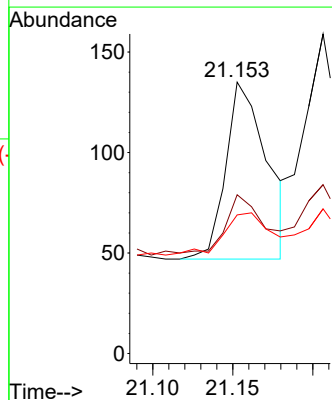
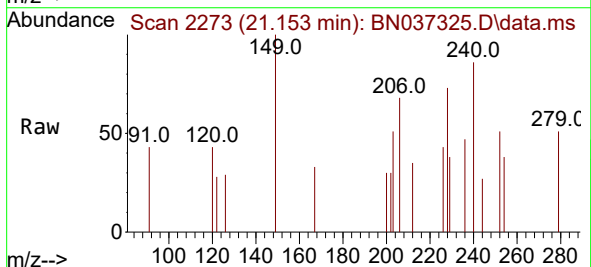


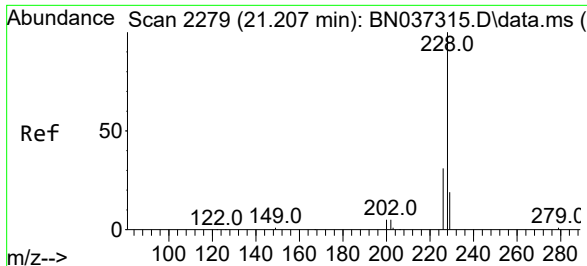
Tgt Ion:244 Resp: 2279
Ion Ratio Lower Upper
244 100
212 11.5 11.1 16.7
122 8.3 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.024 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:228 Resp: 158
Ion Ratio Lower Upper
228 100
226 58.5 23.0 34.4#
229 51.1 17.4 26.0#





#33

Chrysene

Concen: 0.026 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037325.D

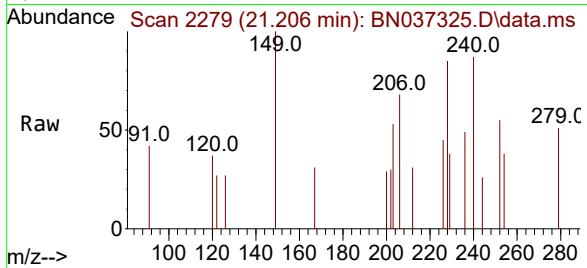
Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613



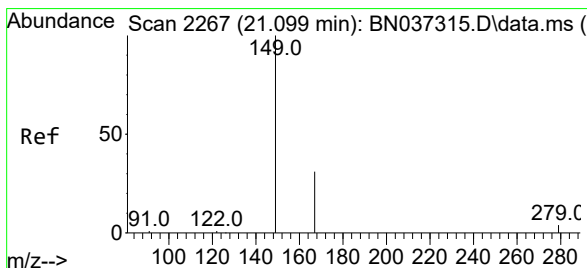
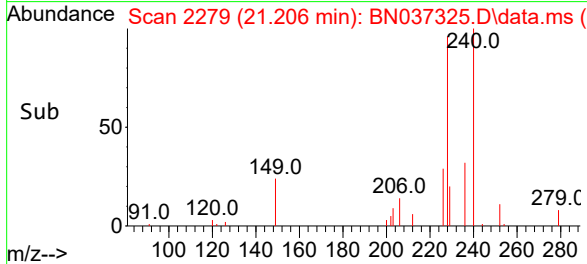
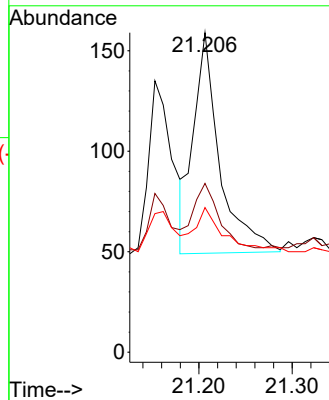
Tgt Ion:228 Resp: 214

Ion Ratio Lower Upper

228 100

226 52.8 25.4 38.2#

229 45.3 17.3 25.9#



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.163 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

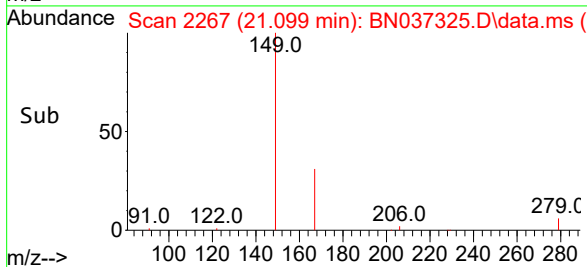
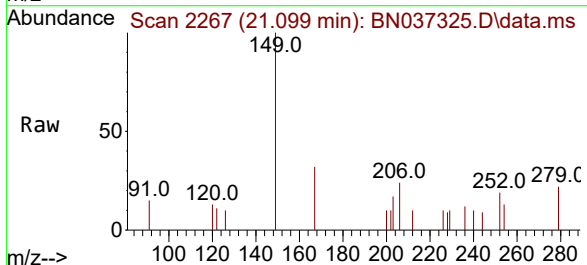
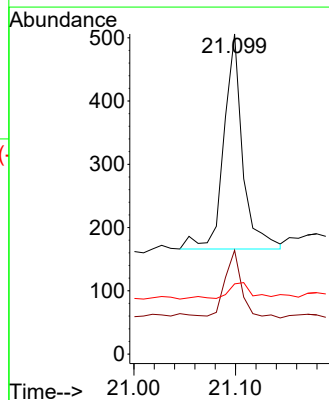
Tgt Ion:149 Resp: 438

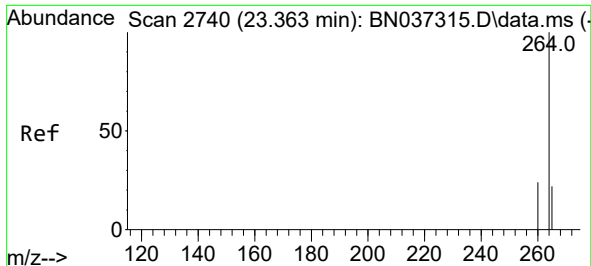
Ion Ratio Lower Upper

149 100

167 28.1 24.6 37.0

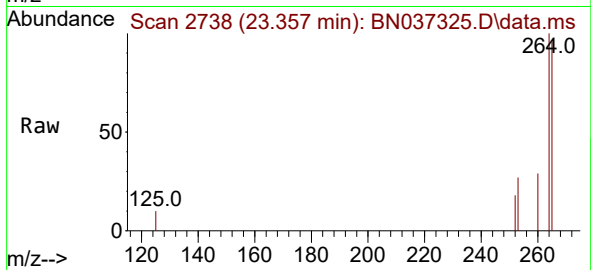
279 8.2 6.5 9.7



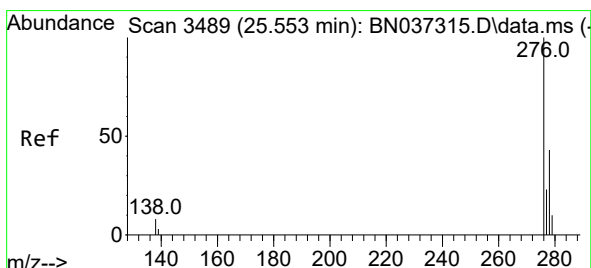
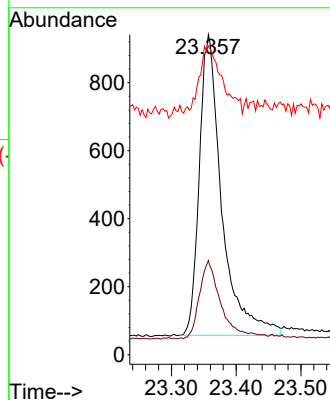
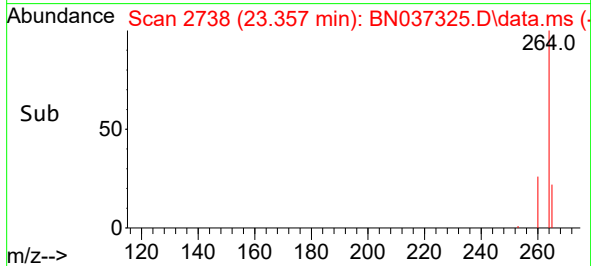


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.357 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613

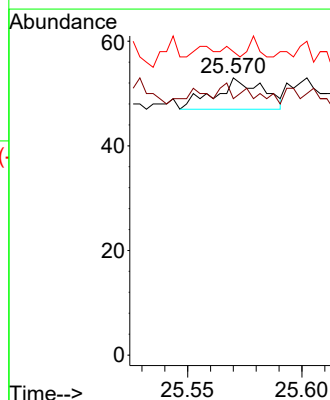
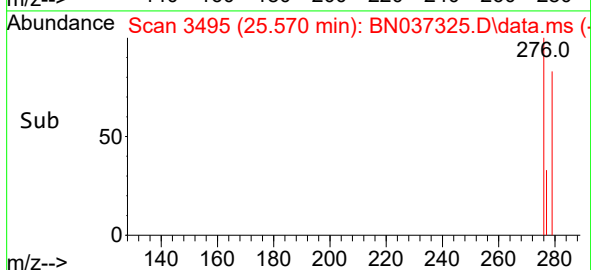
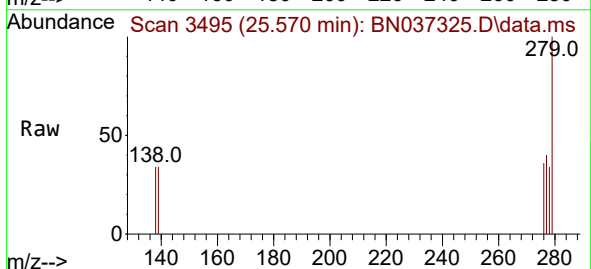


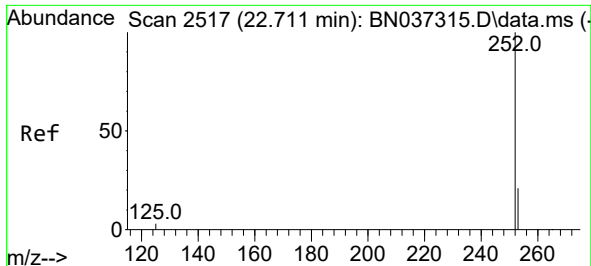
Tgt Ion:264 Resp: 2136
 Ion Ratio Lower Upper
 264 100
 260 29.4 21.4 32.2
 265 96.5 71.4 107.0



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.001 ng
 RT: 25.570 min Scan# 3495
 Delta R.T. 0.017 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

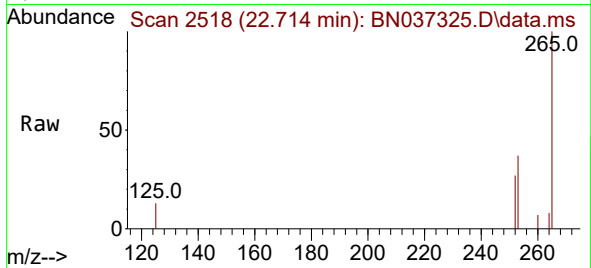
Tgt Ion:276 Resp: 9
 Ion Ratio Lower Upper
 276 100
 138 11.1 2.2 3.2#
 277 22.2 17.1 25.7



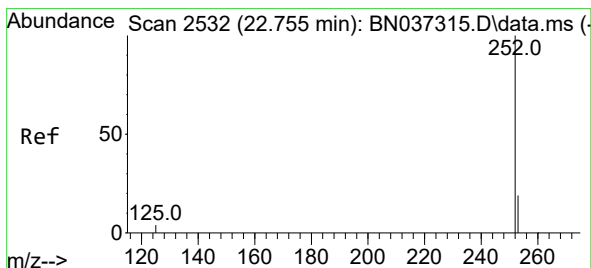
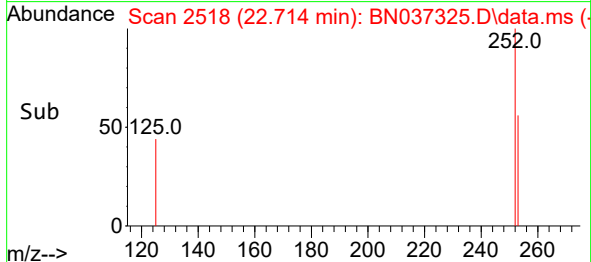
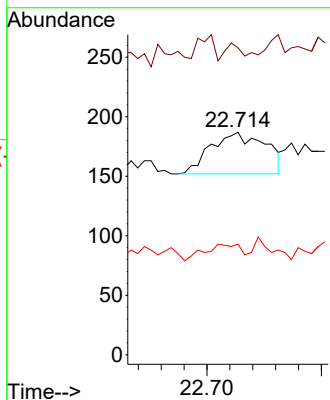


#37
Benzo(b)fluoranthene
Concen: 0.008 ng
RT: 22.714 min Scan# 2518
Delta R.T. 0.003 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613

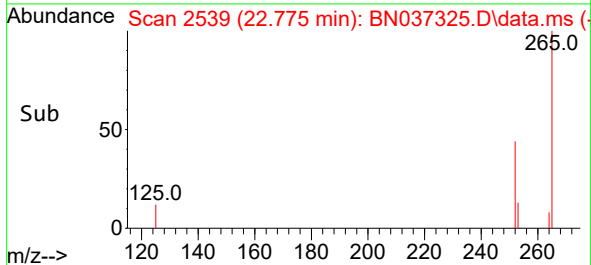
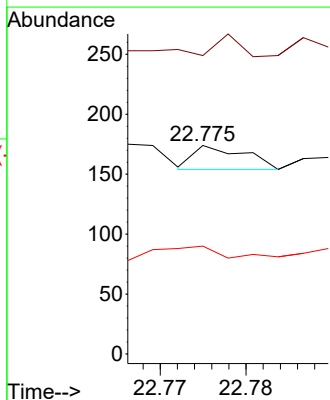
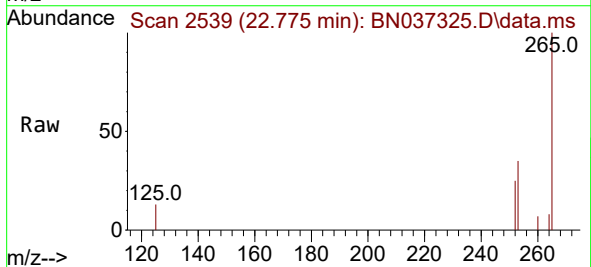


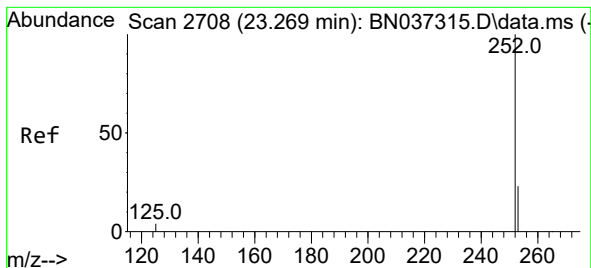
Tgt Ion:252 Resp: 58
Ion Ratio Lower Upper
252 100
253 138.0 26.6 40.0#
125 49.7 6.1 9.1#



#38
Benzo(k)fluoranthene
Concen: 0.001 ng
RT: 22.775 min Scan# 2539
Delta R.T. 0.020 min
Lab File: BN037325.D
Acq: 18 Jun 2025 22:39

Tgt Ion:252 Resp: 8
Ion Ratio Lower Upper
252 100
253 143.1 26.7 40.1#
125 51.7 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.001 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037325.D

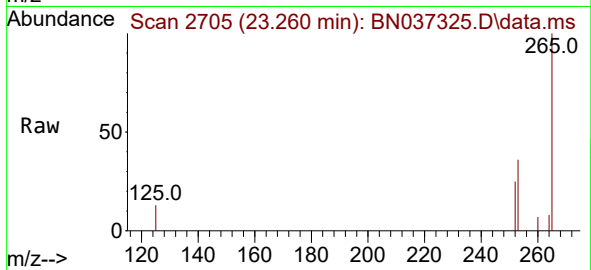
Acq: 18 Jun 2025 22:39

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613



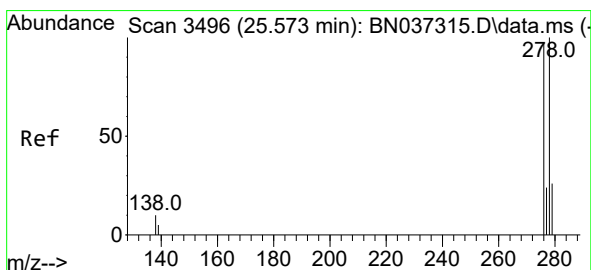
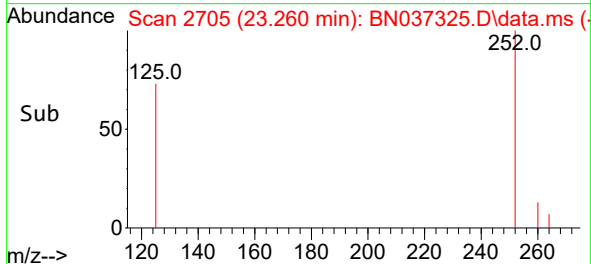
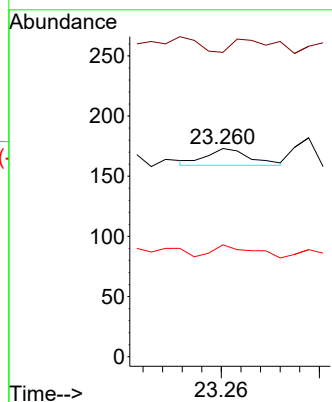
Tgt Ion:252 Resp: 9

Ion Ratio Lower Upper

252 100

253 146.2 31.6 47.4#

125 53.8 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.000 ng

RT: 25.567 min Scan# 3494

Delta R.T. -0.006 min

Lab File: BN037325.D

Acq: 18 Jun 2025 22:39

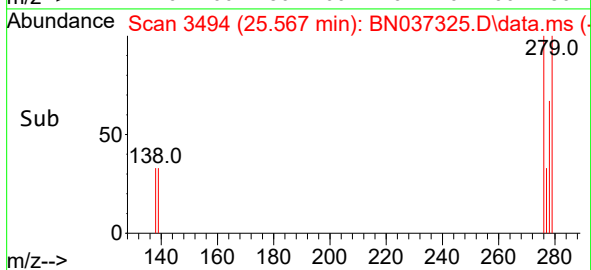
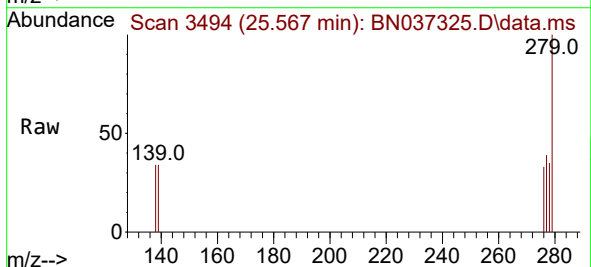
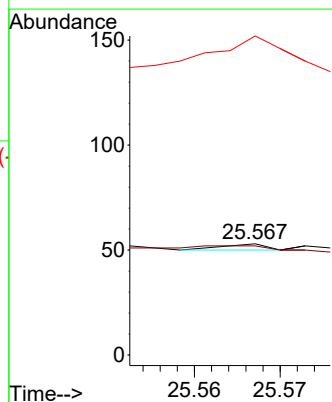
Tgt Ion:278 Resp: 1

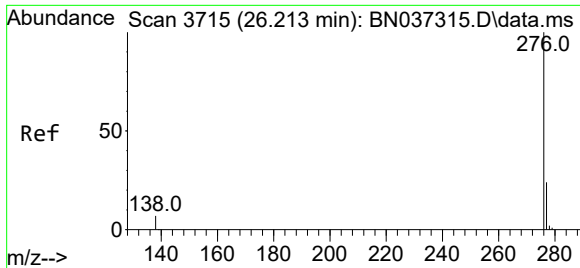
Ion Ratio Lower Upper

278 100

139 98.1 10.2 15.4#

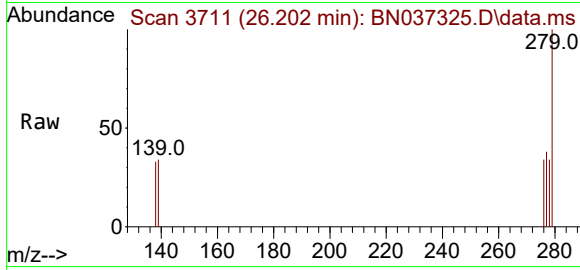
279 286.8 35.6 53.4#



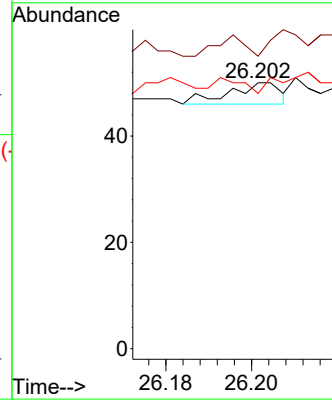
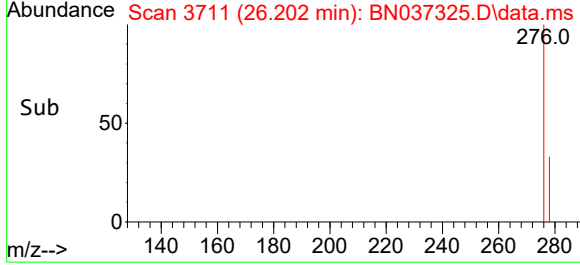


#41
 Benzo(g,h,i)perylene
 Concen: 0.000 ng
 RT: 26.202 min Scan# 31
 Delta R.T. -0.012 min
 Lab File: BN037325.D
 Acq: 18 Jun 2025 22:39

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613



Tgt Ion:276 Resp: 3
 Ion Ratio Lower Upper
 276 100
 277 110.0 22.7 34.1#
 138 96.0 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037326.D
 Acq On : 18 Jun 2025 23:15
 Operator : RC/JU
 Sample : Q2329-11MS
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS

Quant Time: Jun 19 02:41:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

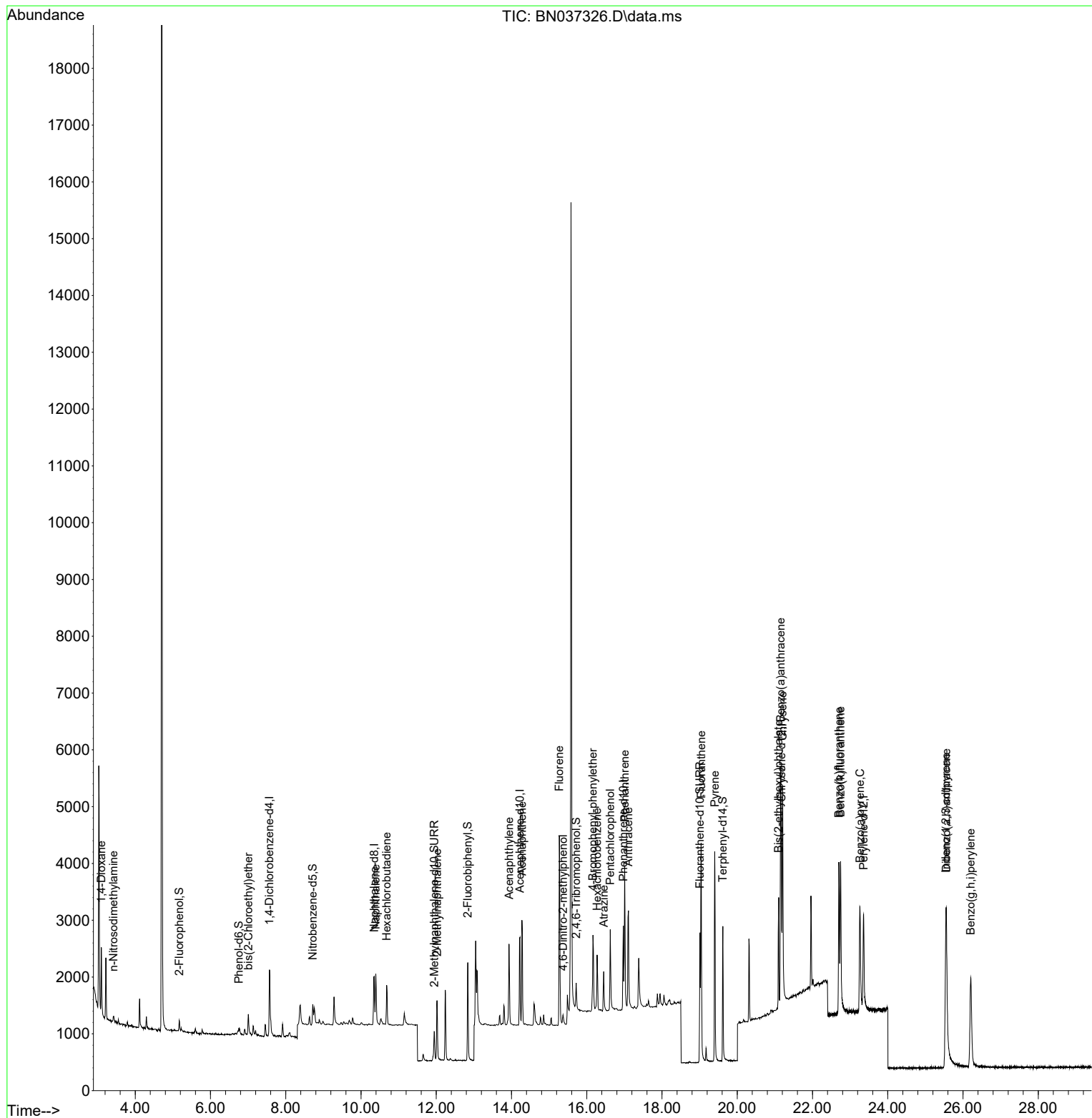
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	620	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1373	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	997	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2208	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2274	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	2391	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	166	0.147	ng	0.00
5) Phenol-d6	6.752	99	115	0.104	ng	0.00
8) Nitrobenzene-d5	8.717	82	379	0.331	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	946	0.424	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	301	0.409	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	1560	0.357	ng	0.00
27) Fluoranthene-d10	19.007	212	3039	0.434	ng	0.00
31) Terphenyl-d14	19.616	244	2795	0.536	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	788	1.424	ng	# 88
3) n-Nitrosodimethylamine	3.422	42	117	0.182	ng	# 88
6) bis(2-Chloroethyl)ether	7.004	93	320	0.337	ng	94
9) Naphthalene	10.394	128	1210	0.341	ng	97
10) Hexachlorobutadiene	10.682	225	575	0.320	ng	# 100
12) 2-Methylnaphthalene	12.021	142	794	0.317	ng	97
16) Acenaphthylene	13.935	152	1600	0.381	ng	99
17) Acenaphthene	14.277	154	956	0.343	ng	98
18) Fluorene	15.271	166	1416	0.359	ng	98
20) 4,6-Dinitro-2-methylph...	15.368	198	288	0.425	ng	# 78
21) 4-Bromophenyl-phenylether	16.164	248	737	0.402	ng	# 81
22) Hexachlorobenzene	16.276	284	725	0.378	ng	97
23) Atrazine	16.450	200	664	0.464	ng	# 88
24) Pentachlorophenol	16.624	266	782	0.736	ng	96
25) Phenanthrene	17.009	178	2629	0.423	ng	99
26) Anthracene	17.108	178	2415	0.414	ng	99
28) Fluoranthene	19.040	202	3702	0.429	ng	# 95
30) Pyrene	19.402	202	3766	0.435	ng	100
32) Benzo(a)anthracene	21.153	228	3454	0.472	ng	100
33) Chrysene	21.206	228	3940	0.422	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1610	0.536	ng	99
36) Indeno(1,2,3-cd)pyrene	25.544	276	4505	0.448	ng	# 95
37) Benzo(b)fluoranthene	22.702	252	3579	0.429	ng	98
38) Benzo(k)fluoranthene	22.746	252	4007	0.437	ng	98
39) Benzo(a)pyrene	23.260	252	3480	0.450	ng	# 93
40) Dibenzo(a,h)anthracene	25.558	278	3505	0.434	ng	89
41) Benzo(g,h,i)perylene	26.204	276	3809	0.413	ng	96

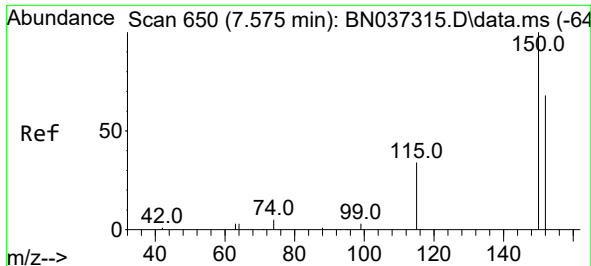
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037326.D
Acq On : 18 Jun 2025 23:15
Operator : RC/JU
Sample : Q2329-11MS
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

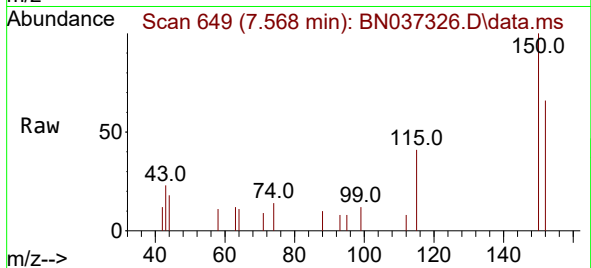
Quant Time: Jun 19 02:41:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration





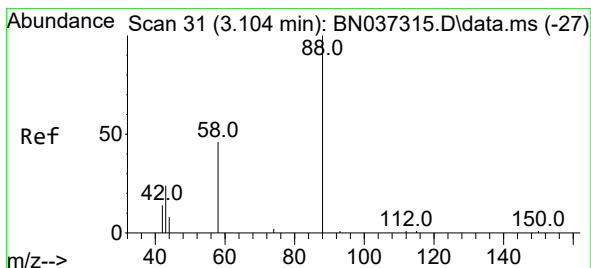
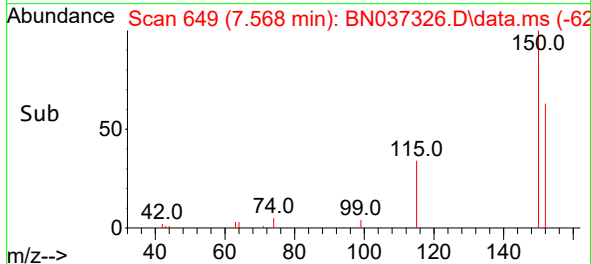
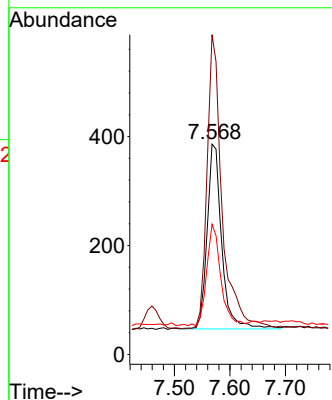
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.568 min Scan# 64
 Delta R.T. -0.007 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS



Tgt Ion:152 Resp: 620

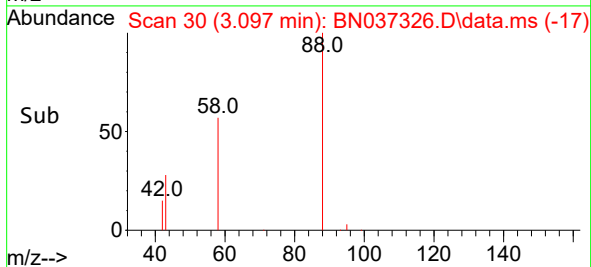
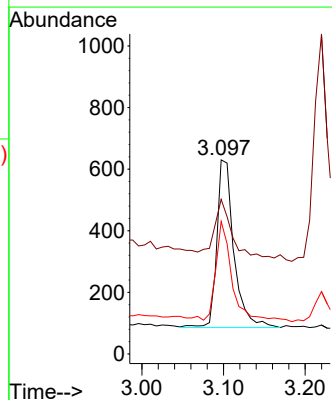
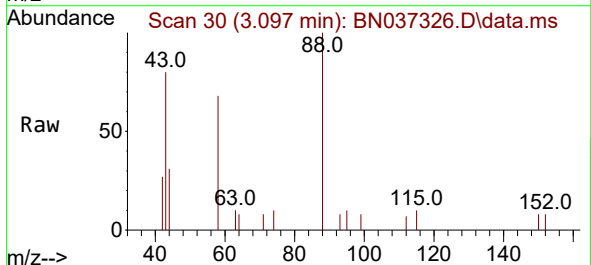
Ion	Ratio	Lower	Upper
152	100		
150	152.1	112.7	169.1
115	61.9	45.9	68.9

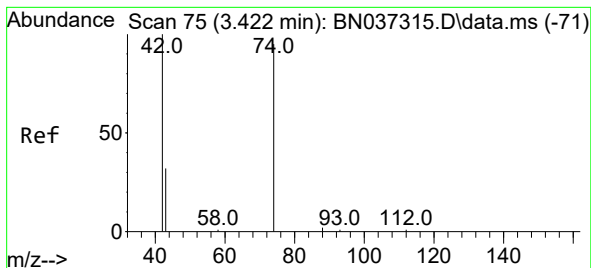


#2
 1,4-Dioxane
 Concen: 1.424 ng
 RT: 3.097 min Scan# 30
 Delta R.T. -0.007 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Tgt Ion: 88 Resp: 788

Ion	Ratio	Lower	Upper
88	100		
43	35.0	21.0	31.6#
58	53.2	38.0	57.0





#3

n-Nitrosodimethylamine

Concen: 0.182 ng

RT: 3.422 min Scan# 75

Delta R.T. -0.000 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MS

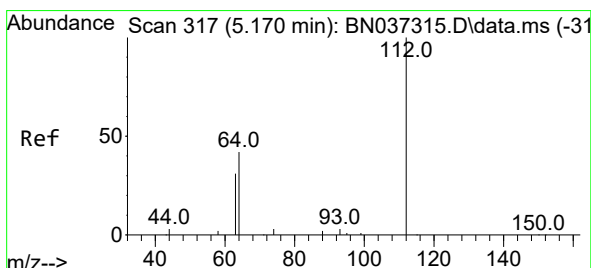
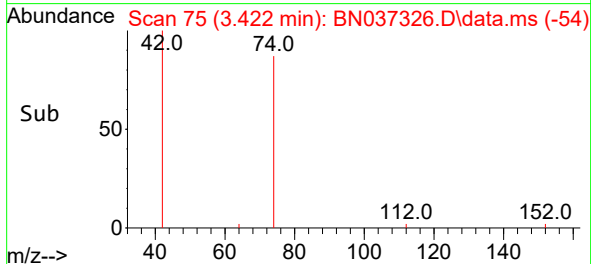
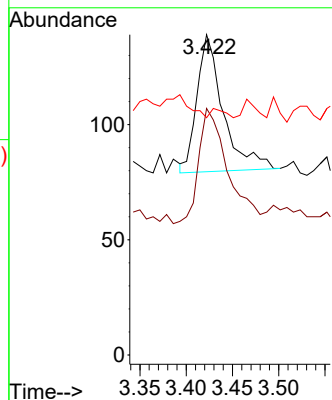
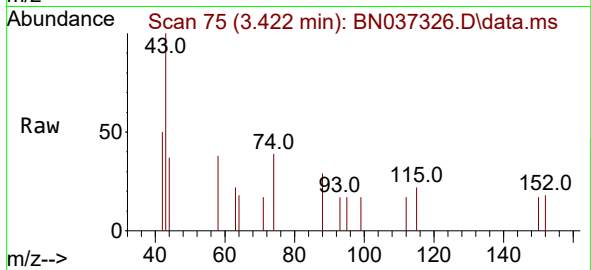
Tgt Ion: 42 Resp: 117

Ion Ratio Lower Upper

42 100

74 93.2 84.3 126.5

44 3.4 5.0 7.4#



#4

2-Fluorophenol

Concen: 0.147 ng

RT: 5.170 min Scan# 317

Delta R.T. -0.000 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

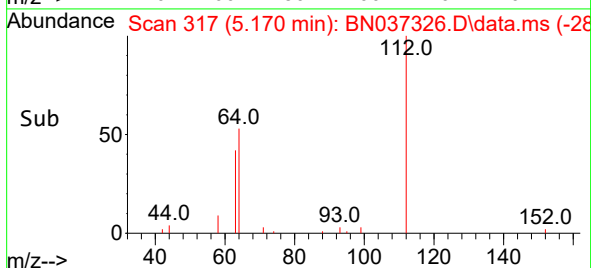
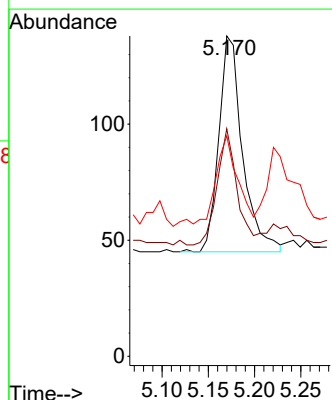
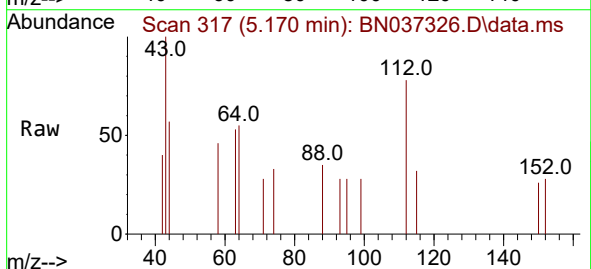
Tgt Ion: 112 Resp: 166

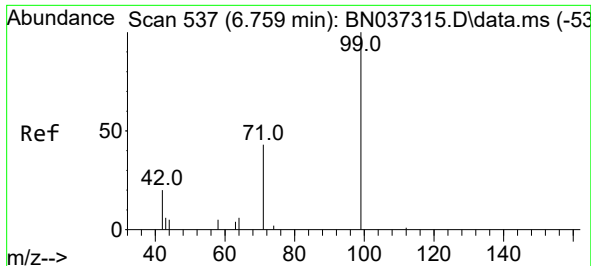
Ion Ratio Lower Upper

112 100

64 48.2 38.7 58.1

63 37.3 26.4 39.6

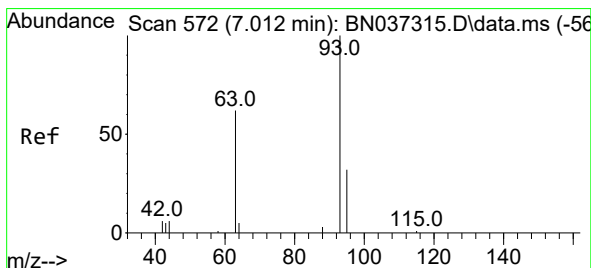
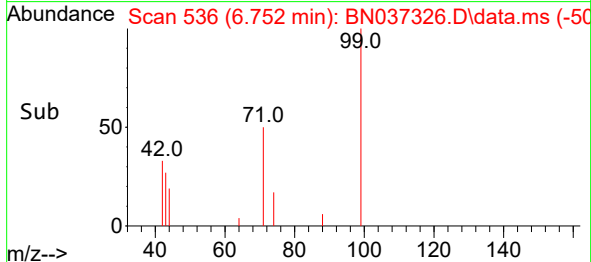
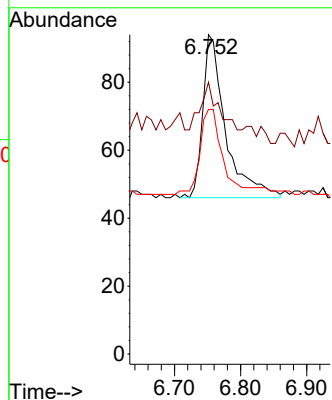
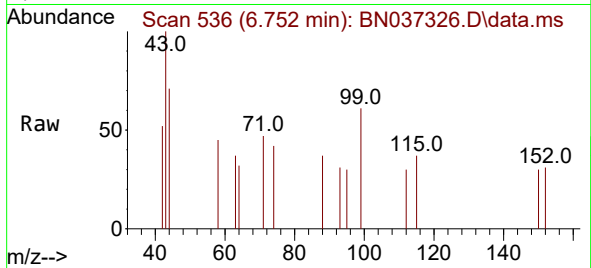




#5
Phenol-d6
Concen: 0.104 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

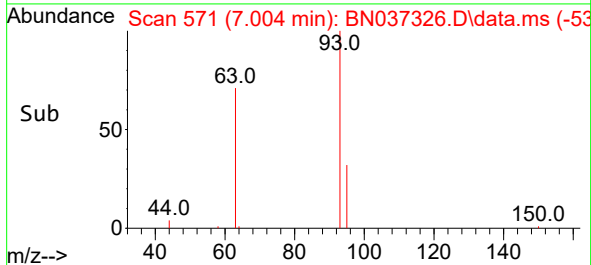
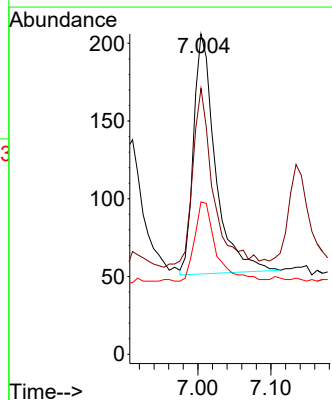
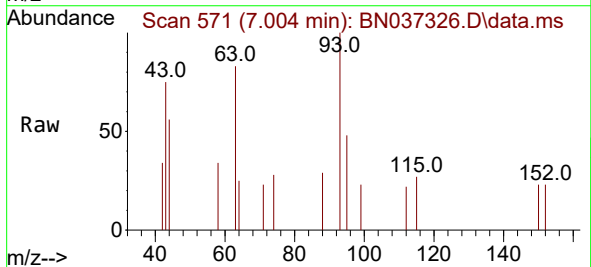
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

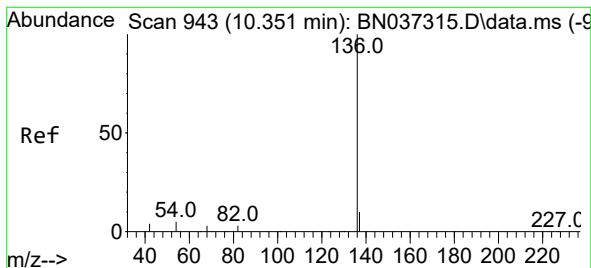
Tgt Ion:	99	Resp:	115
Ion	Ratio	Lower	Upper
99	100		
42	23.5	19.8	29.8
71	53.9	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:	93	Resp:	320
Ion	Ratio	Lower	Upper
93	100		
63	72.8	53.2	79.8
95	32.2	27.3	40.9





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 94

Delta R.T. -0.000 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MS

Tgt Ion:136 Resp: 1373

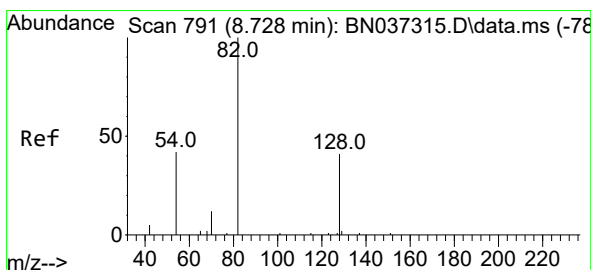
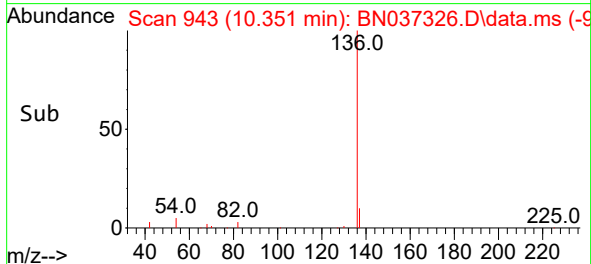
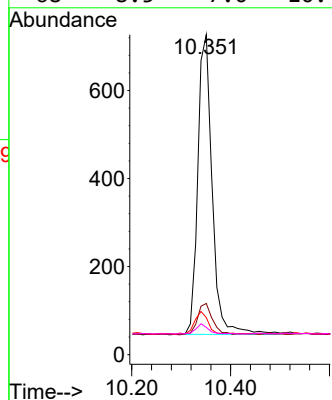
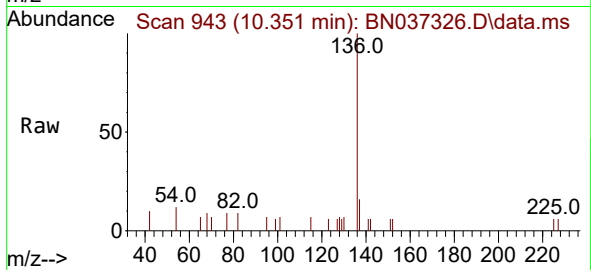
Ion Ratio Lower Upper

136 100

137 16.0 12.2 18.2

54 11.6 8.8 13.2

68 8.5 7.0 10.4



#8

Nitrobenzene-d5

Concen: 0.331 ng

RT: 8.717 min Scan# 790

Delta R.T. -0.011 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

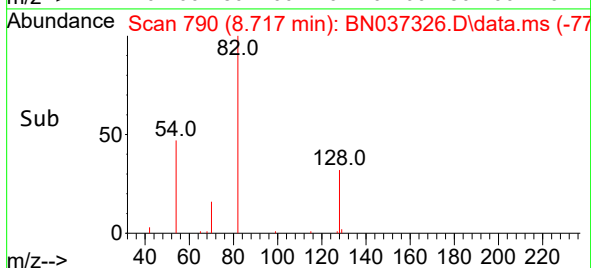
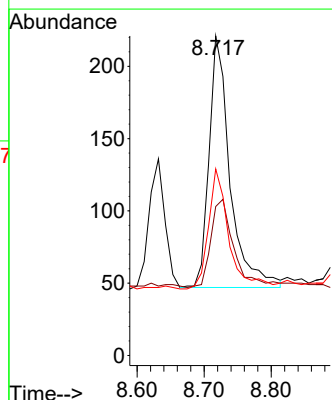
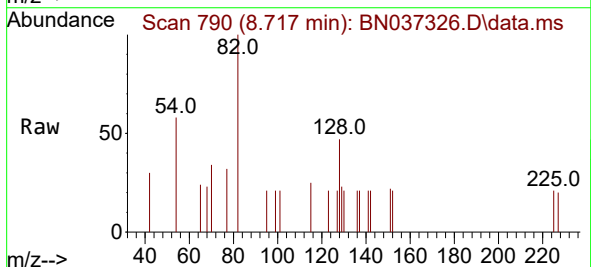
Tgt Ion: 82 Resp: 379

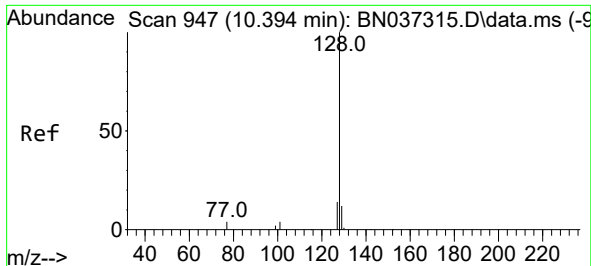
Ion Ratio Lower Upper

82 100

128 46.6 42.5 63.7

54 58.4 43.2 64.8

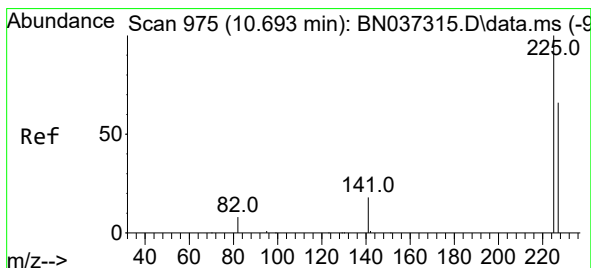
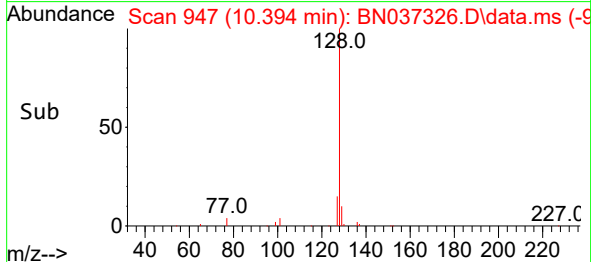
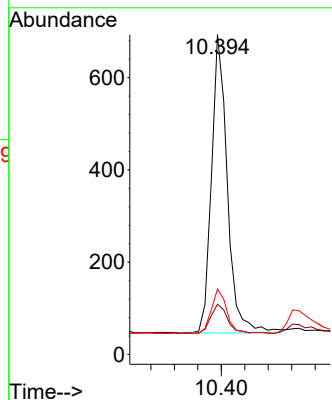
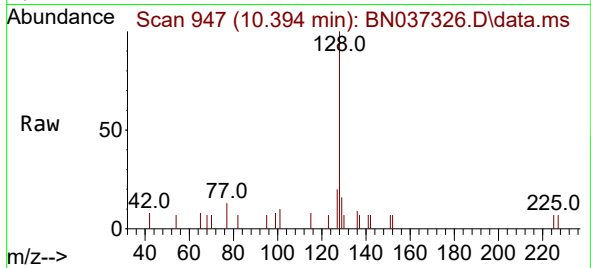




#9
Naphthalene
Concen: 0.341 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

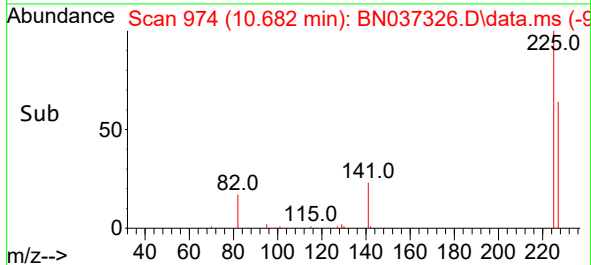
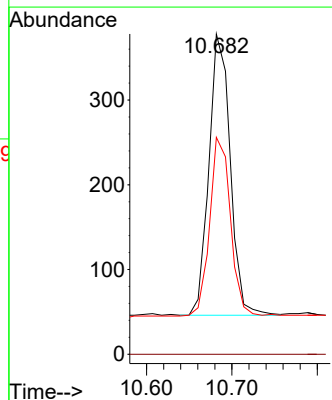
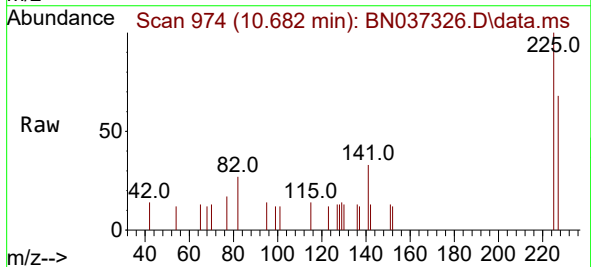
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

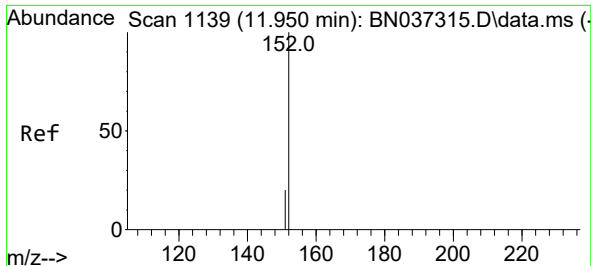
Tgt Ion:	128	Resp:	1210
Ion Ratio	Lower	Upper	
128	100		
129	15.7	14.0	21.0
127	20.5	15.8	23.8



#10
Hexachlorobutadiene
Concen: 0.320 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:	225	Resp:	575
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	0.0
227	62.8	50.3	75.5

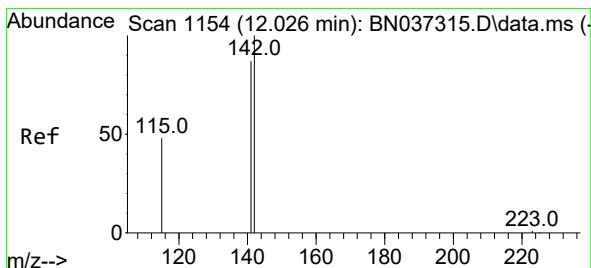
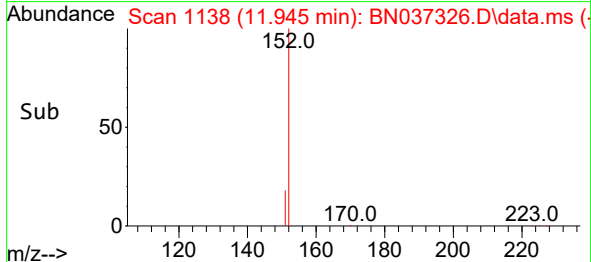
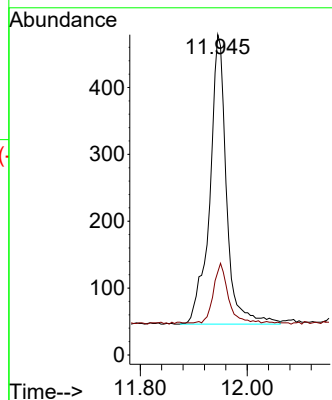
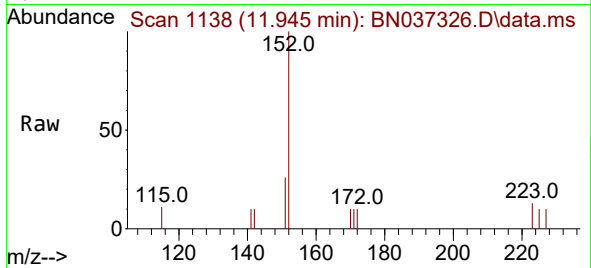




#11
2-Methylnaphthalene-d10
Concen: 0.424 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

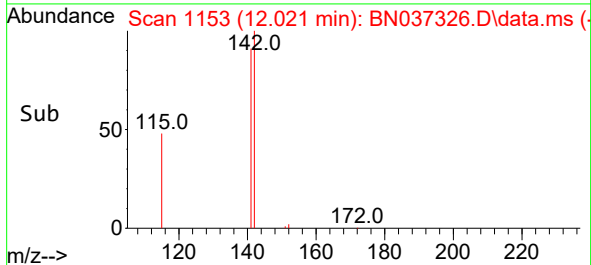
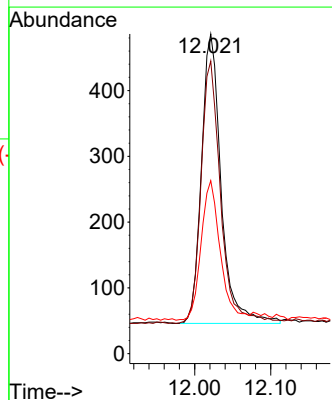
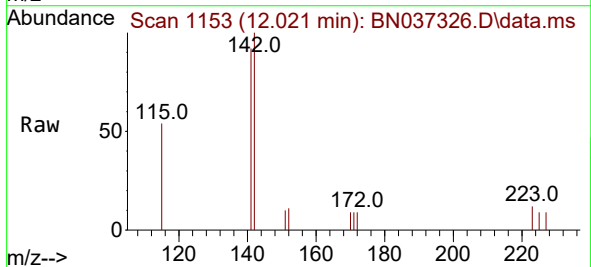
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

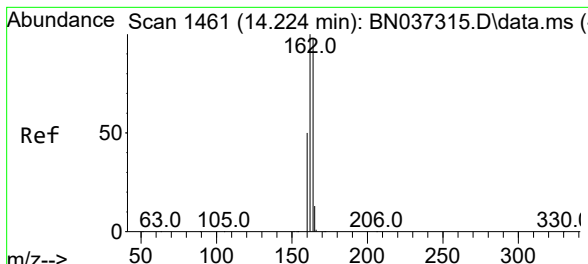
Tgt Ion:152 Resp: 946
Ion Ratio Lower Upper
152 100
151 19.3 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.317 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:142 Resp: 794
Ion Ratio Lower Upper
142 100
141 91.6 70.2 105.2
115 54.1 43.0 64.4

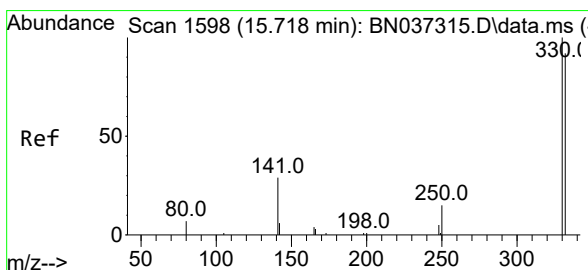
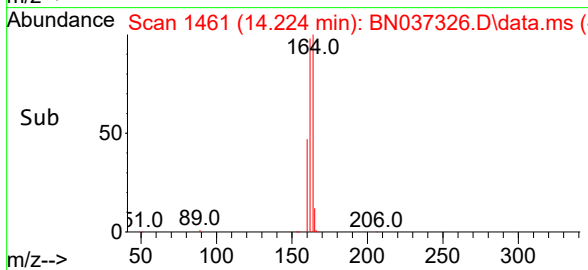
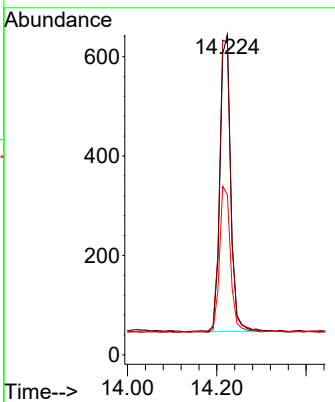
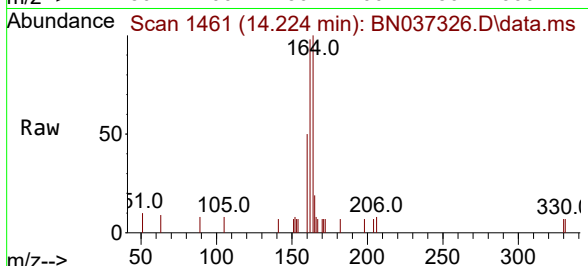




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.224 min Scan# 1461
 Delta R.T. -0.000 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

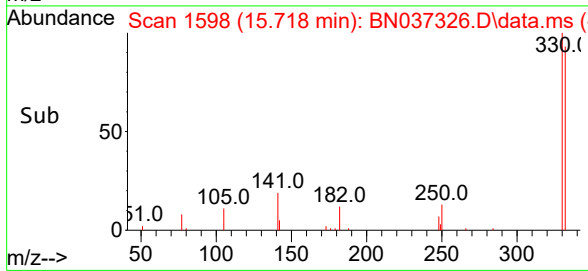
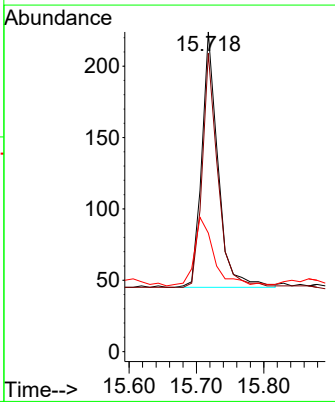
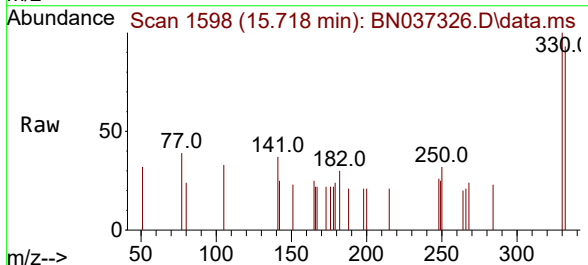
Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS

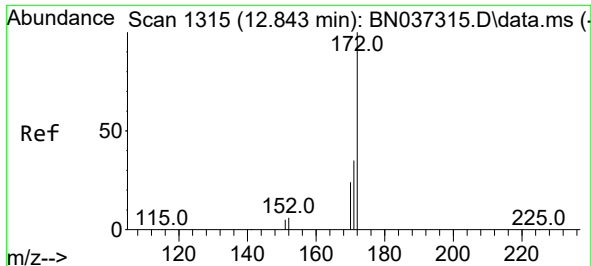
Tgt Ion:	164	Resp:	997
Ion	Ratio	Lower	Upper
164	100		
162	97.5	81.5	122.3
160	50.0	43.0	64.4



#14
 2,4,6-Tribromophenol
 Concen: 0.409 ng
 RT: 15.718 min Scan# 1598
 Delta R.T. -0.000 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Tgt Ion:	330	Resp:	301
Ion	Ratio	Lower	Upper
330	100		
332	89.0	78.4	117.6
141	32.6	24.4	36.6

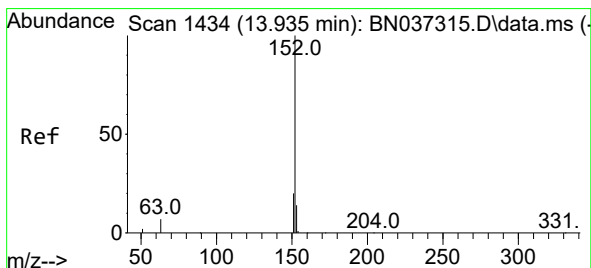
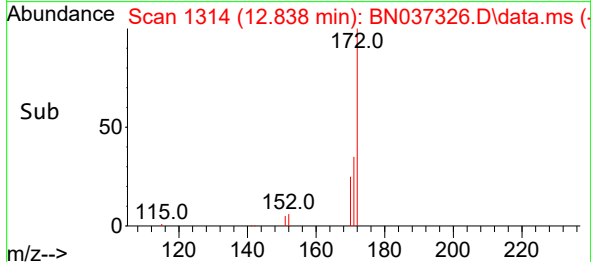
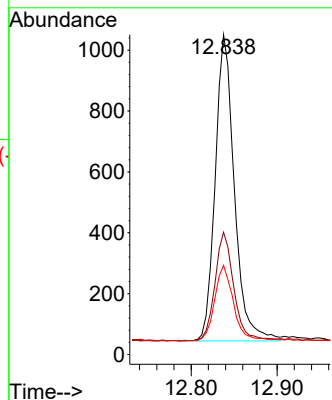
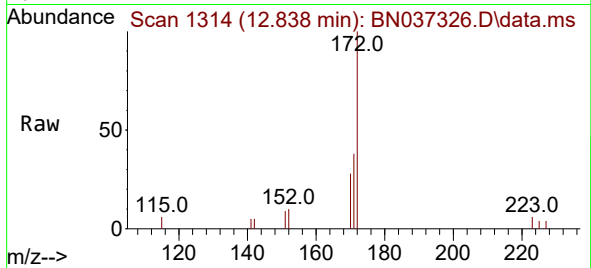




#15
2-Fluorobiphenyl
Concen: 0.357 ng
RT: 12.838 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

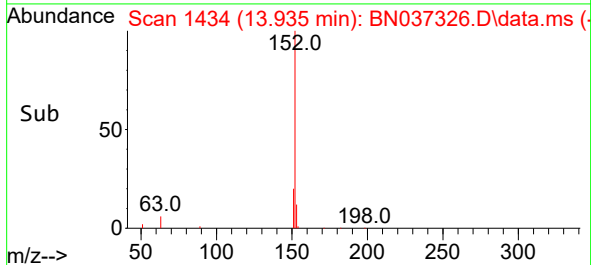
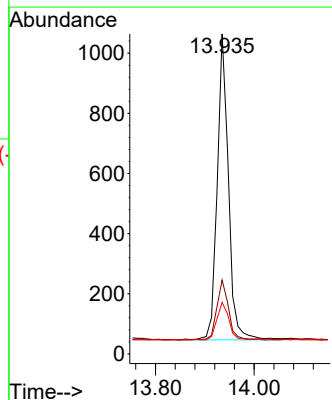
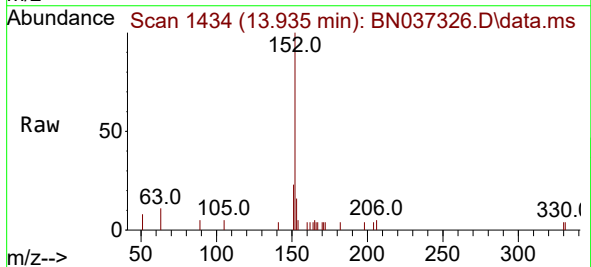
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

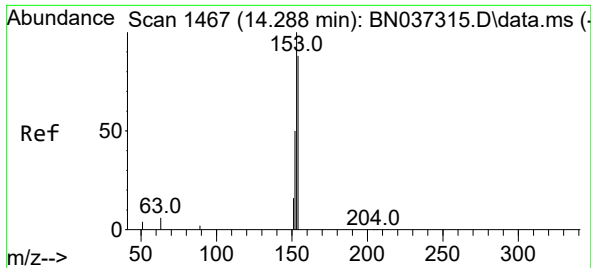
Tgt Ion:172	Resp:	1560
Ion Ratio	Lower	Upper
172	100	
171	38.2	30.8 46.2
170	27.9	21.9 32.9



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:152	Resp:	1600
Ion Ratio	Lower	Upper
152	100	
151	20.8	16.6 24.8
153	13.6	10.2 15.2

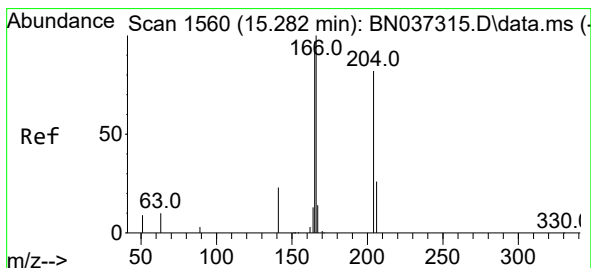
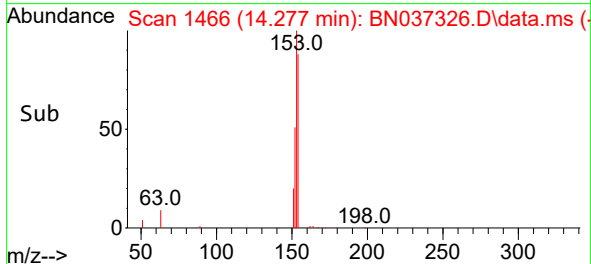
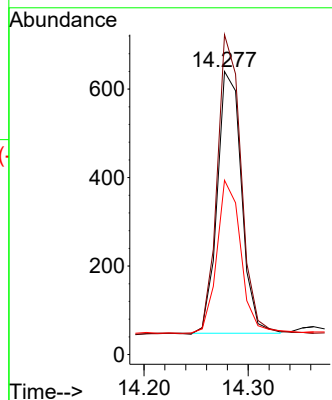
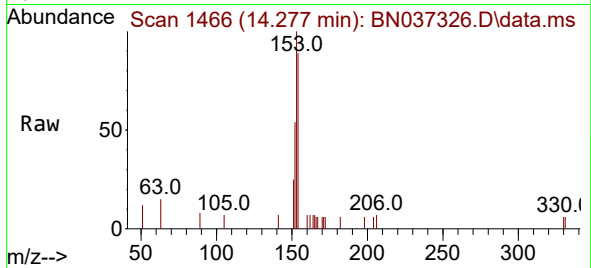




#17
Acenaphthene
Concen: 0.343 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

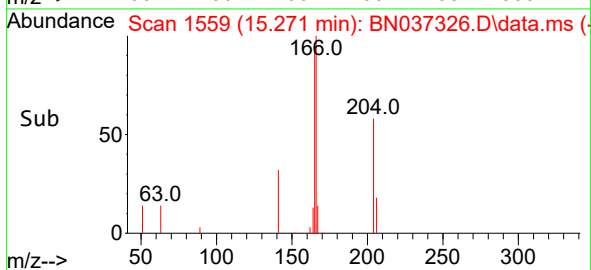
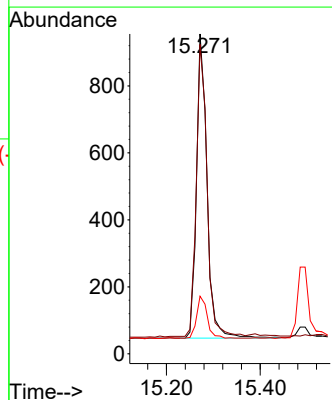
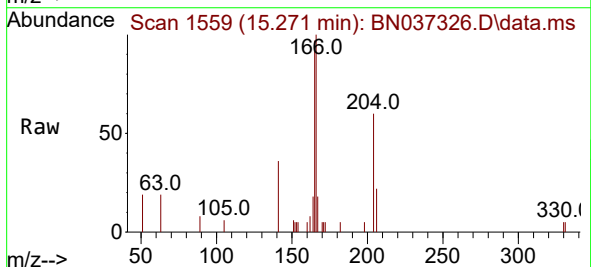
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

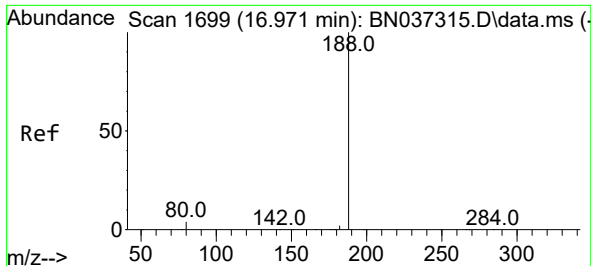
Tgt Ion:154 Resp: 956
Ion Ratio Lower Upper
154 100
153 114.4 93.1 139.7
152 58.8 48.6 73.0



#18
Fluorene
Concen: 0.359 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:166 Resp: 1416
Ion Ratio Lower Upper
166 100
165 97.4 79.5 119.3
167 13.7 10.7 16.1

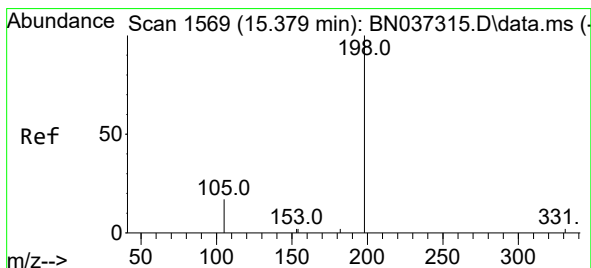
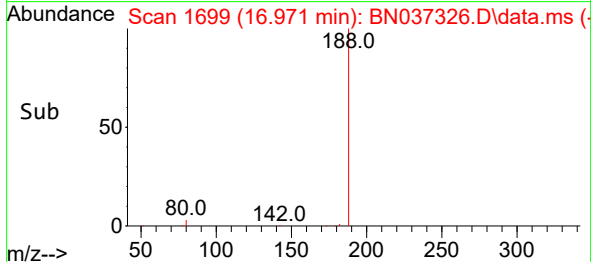
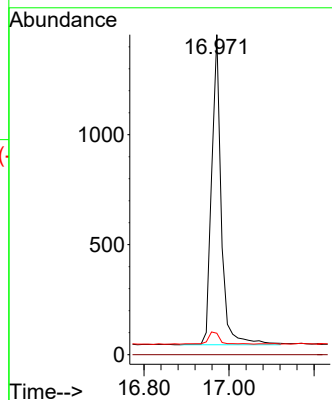
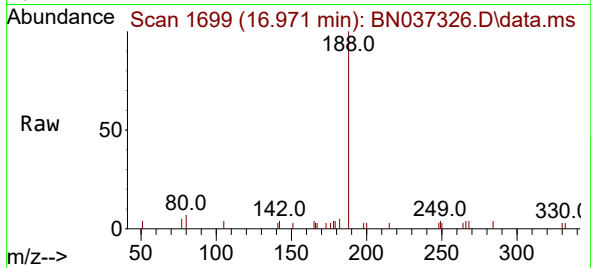




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

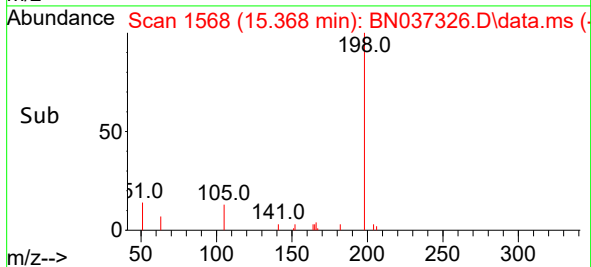
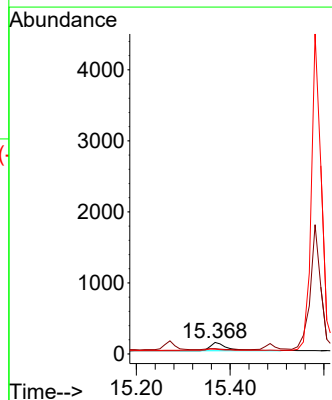
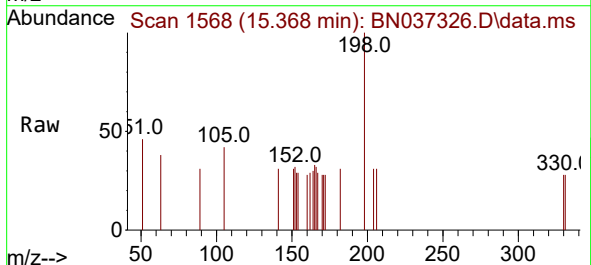
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

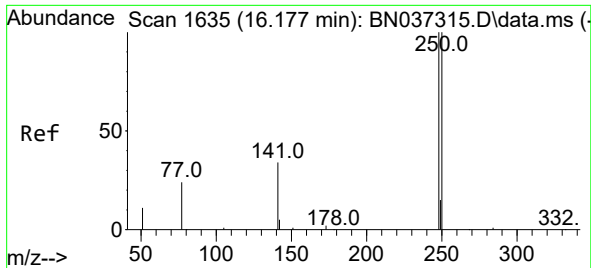
Tgt Ion:188 Resp: 2208
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 6.7 6.2 9.2



#20
4,6-Dinitro-2-methylphenol
Concen: 0.425 ng
RT: 15.368 min Scan# 1568
Delta R.T. -0.011 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:198 Resp: 288
Ion Ratio Lower Upper
198 100
51 45.7 51.4 77.0#
105 42.0 45.5 68.3#

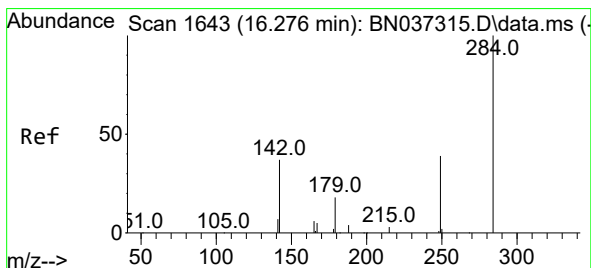
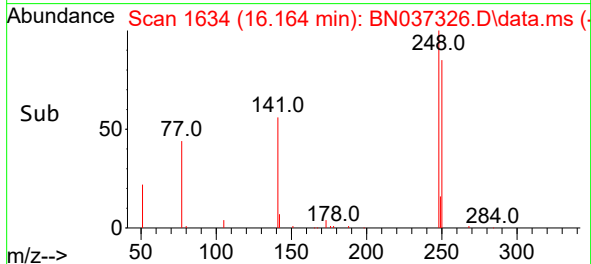
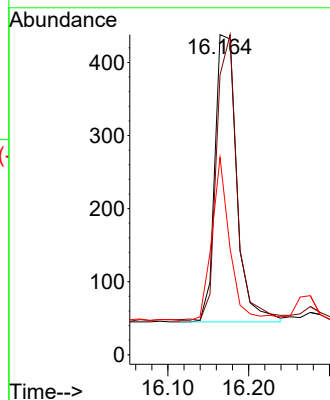
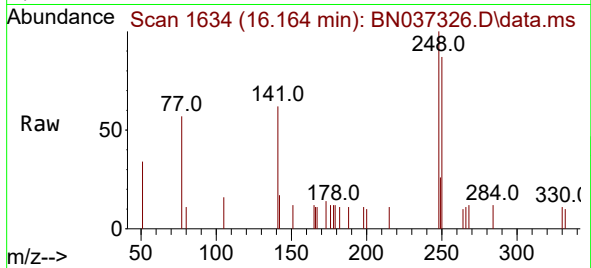




#21
4-Bromophenyl-phenylether
Concen: 0.402 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.013 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

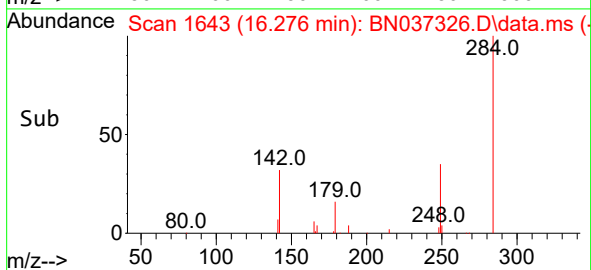
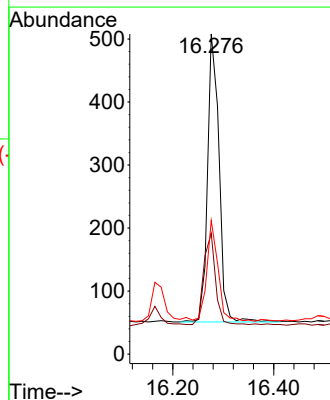
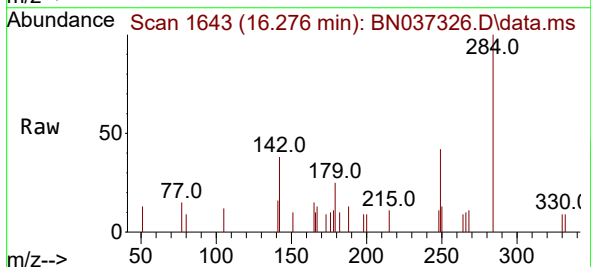
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

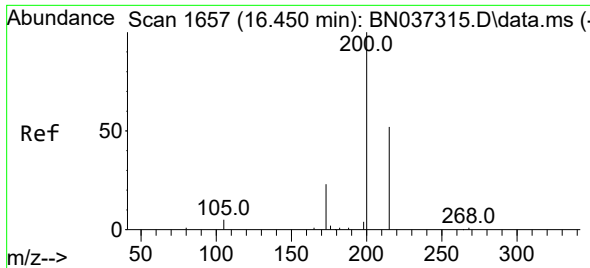
Tgt Ion:248 Resp: 737
Ion Ratio Lower Upper
248 100
250 87.4 80.4 120.6
141 61.6 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.378 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:284 Resp: 725
Ion Ratio Lower Upper
284 100
142 32.7 27.0 40.6
249 34.2 28.8 43.2

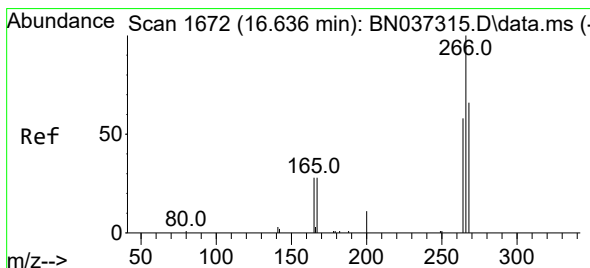
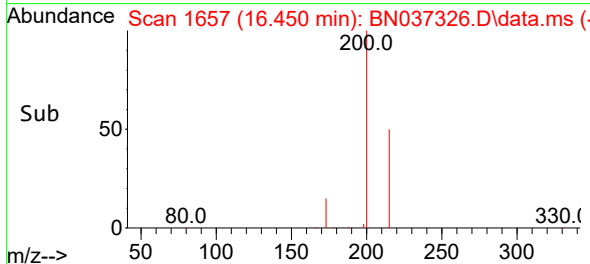
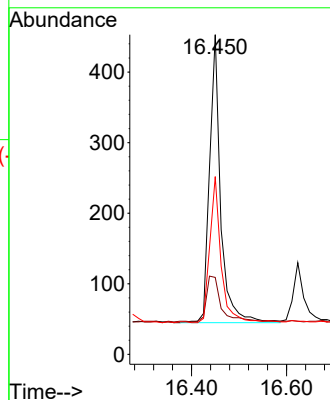
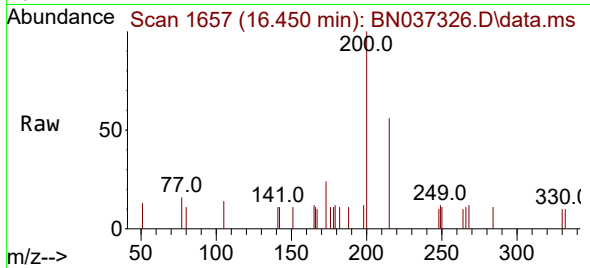




#23
 Atrazine
 Concen: 0.464 ng
 RT: 16.450 min Scan# 1657
 Delta R.T. -0.000 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

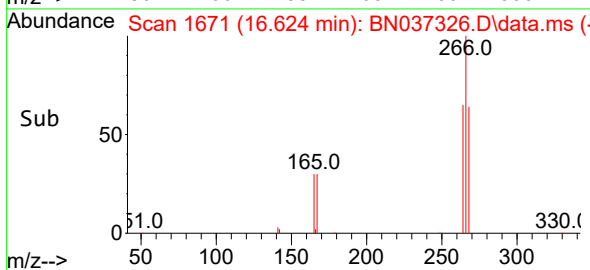
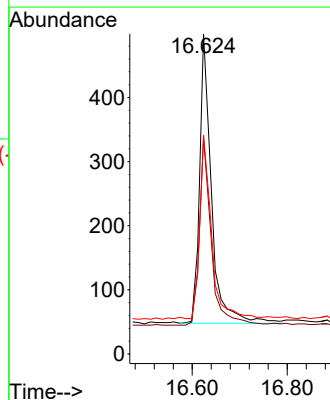
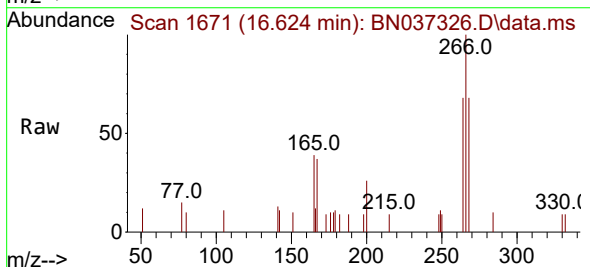
Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS

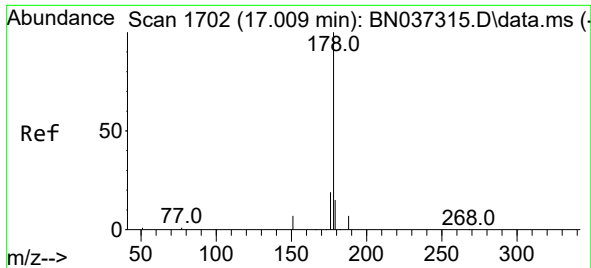
Tgt Ion:200 Resp: 664
 Ion Ratio Lower Upper
 200 100
 173 24.1 29.2 43.8#
 215 55.6 48.8 73.2



#24
 Pentachlorophenol
 Concen: 0.736 ng
 RT: 16.624 min Scan# 1671
 Delta R.T. -0.013 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Tgt Ion:266 Resp: 782
 Ion Ratio Lower Upper
 266 100
 264 64.8 50.3 75.5
 268 64.6 55.3 82.9

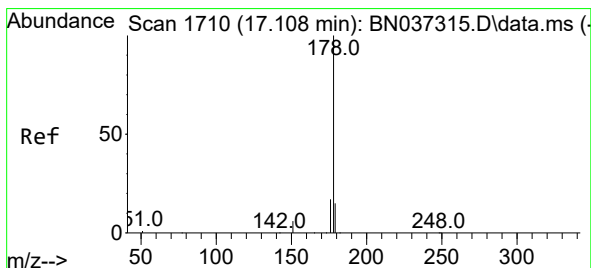
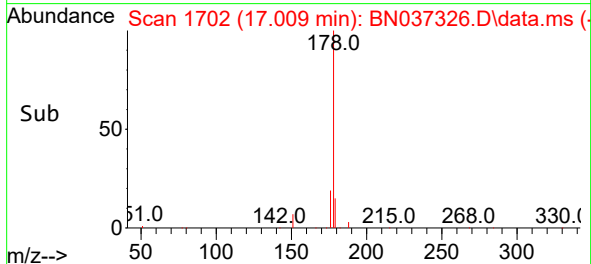
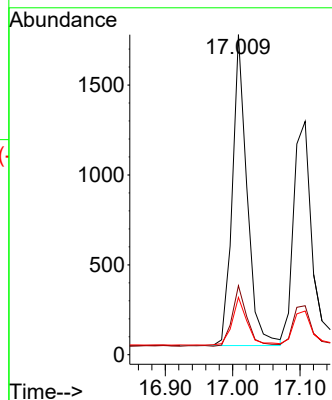
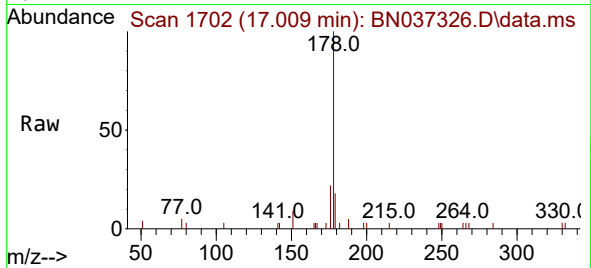




#25
Phenanthrene
Concen: 0.423 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

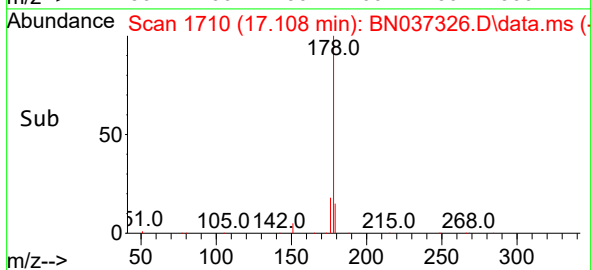
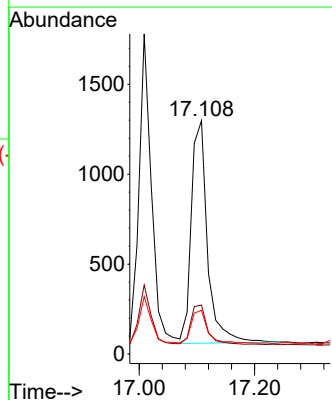
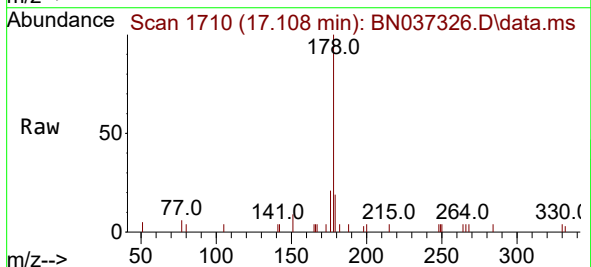
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

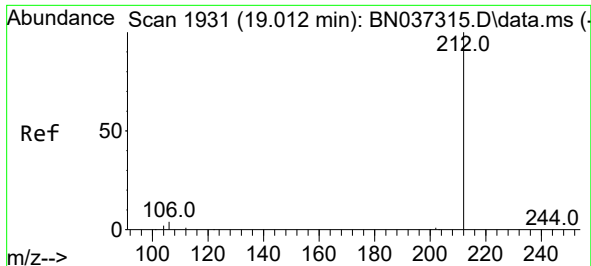
Tgt Ion:178	Resp:	2629
Ion Ratio	Lower	Upper
178	100	
176	19.9	15.2 22.8
179	15.7	12.9 19.3



#26
Anthracene
Concen: 0.414 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:178	Resp:	2415
Ion Ratio	Lower	Upper
178	100	
176	18.7	14.7 22.1
179	15.9	13.0 19.6

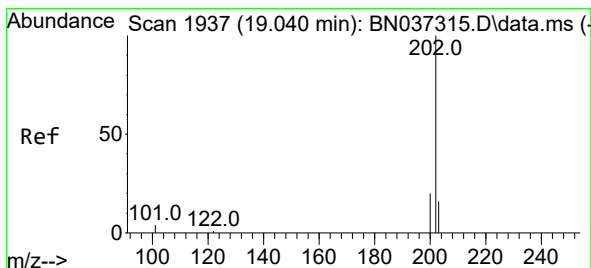
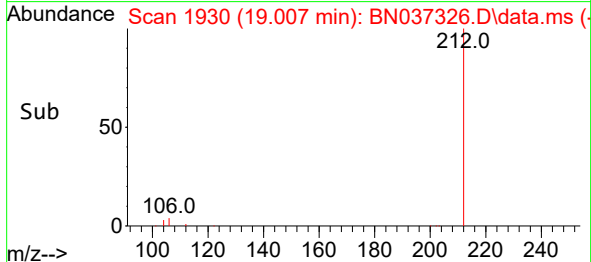
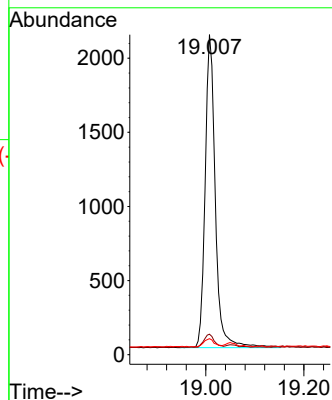
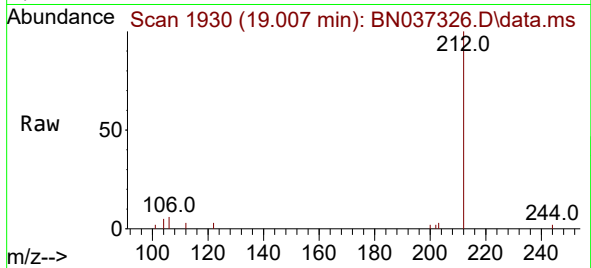




#27
Fluoranthene-d10
Concen: 0.434 ng
RT: 19.007 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

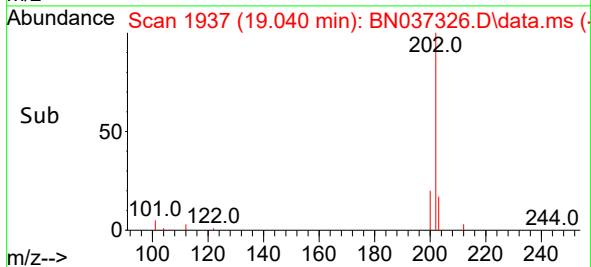
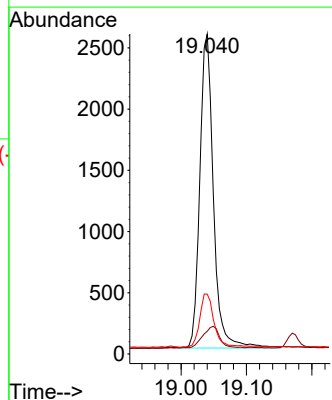
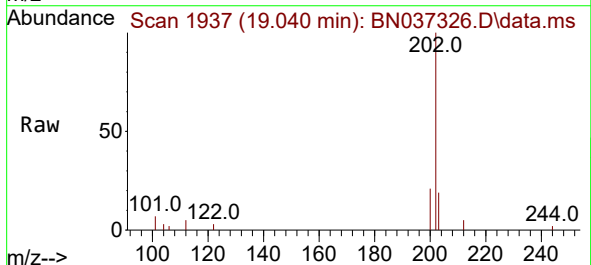
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

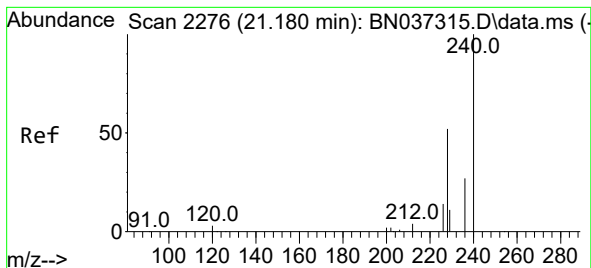
Tgt Ion:212 Resp: 3039
Ion Ratio Lower Upper
212 100
106 4.3 3.0 4.4
104 2.5 2.0 3.0



#28
Fluoranthene
Concen: 0.429 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:202 Resp: 3702
Ion Ratio Lower Upper
202 100
101 8.6 3.0 4.6#
203 18.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037326.D

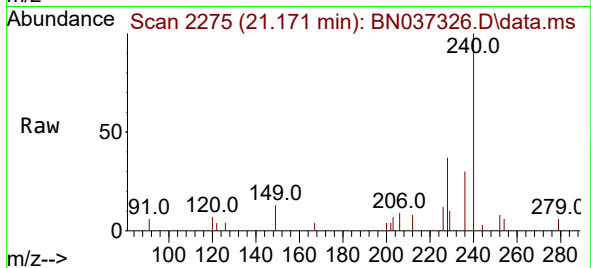
Acq: 18 Jun 2025 23:15

Instrument :

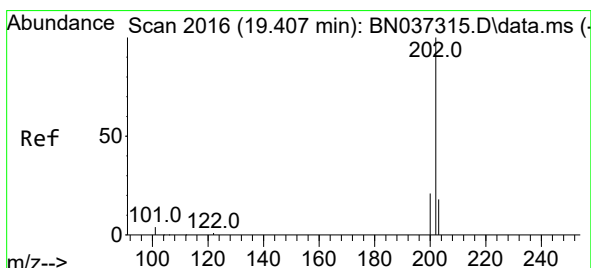
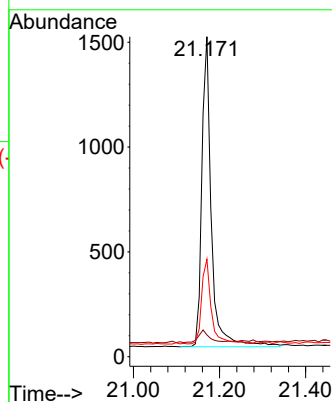
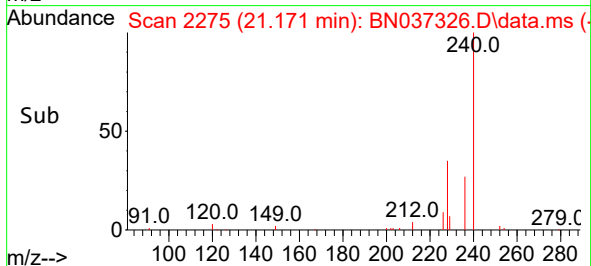
BNA_N

ClientSampleId :

TT172S1-20250613MS



Tgt Ion:	240	Resp:	2274
Ion Ratio	Lower	Upper	
240	100		
120	6.8	7.5	11.3#
236	30.5	24.9	37.3



#30

Pyrene

Concen: 0.435 ng

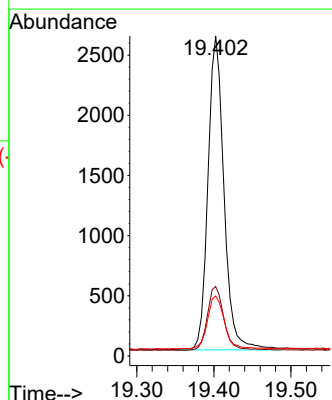
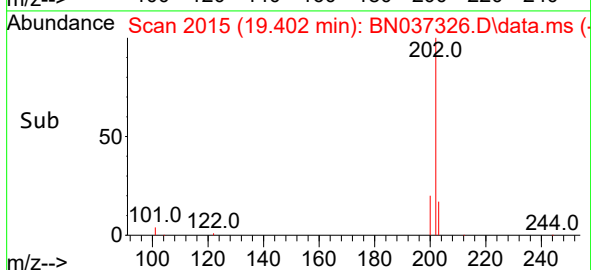
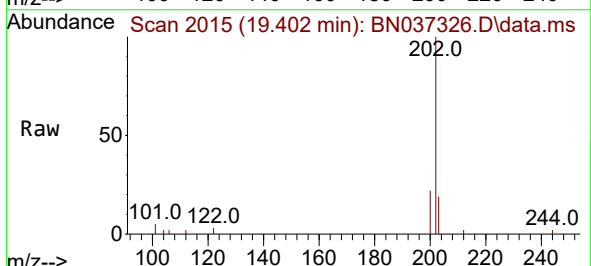
RT: 19.402 min Scan# 2015

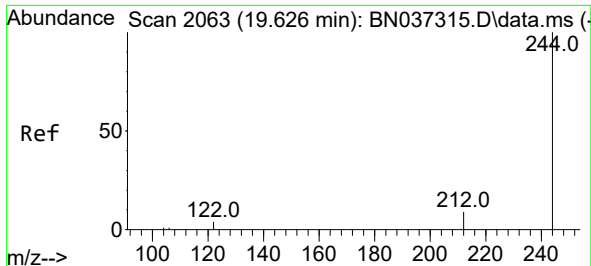
Delta R.T. -0.005 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

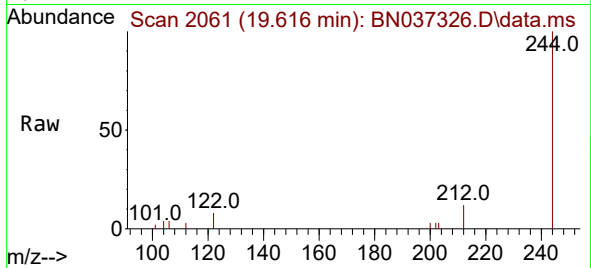
Tgt Ion:	202	Resp:	3766
Ion Ratio	Lower	Upper	
202	100		
200	21.0	16.8	25.2
203	17.9	14.5	21.7



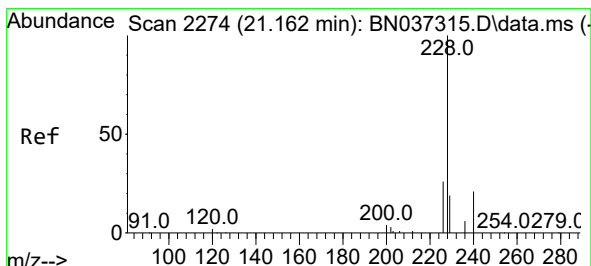
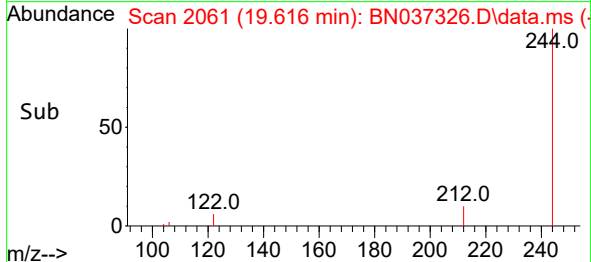
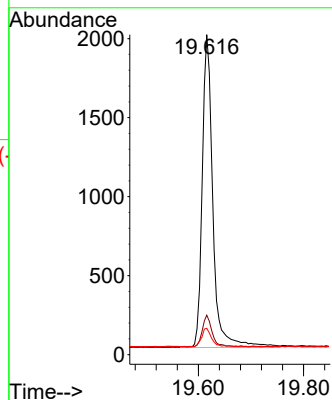


#31
 Terphenyl-d14
 Concen: 0.536 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. -0.009 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS

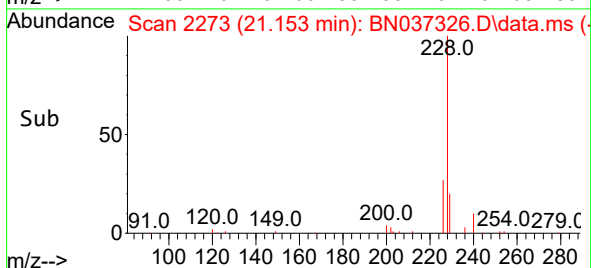
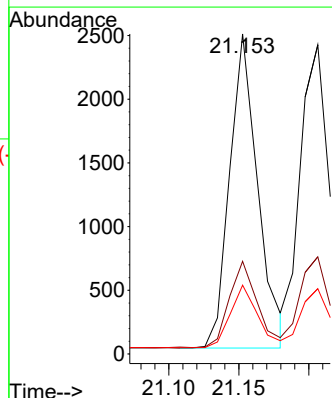
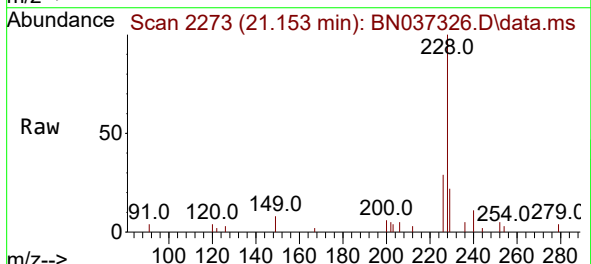


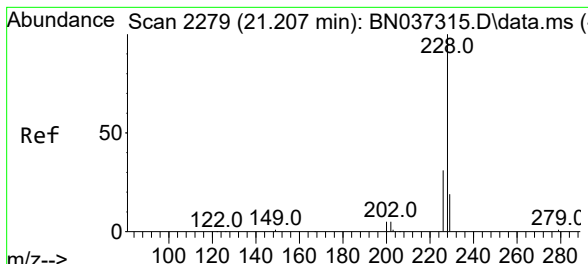
Tgt Ion:	244	Resp:	2795
Ion Ratio	Lower	Upper	
244	100		
212	12.3	11.1	16.7
122	8.2	7.2	10.8



#32
 Benzo(a)anthracene
 Concen: 0.472 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. -0.009 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Tgt Ion:	228	Resp:	3454
Ion Ratio	Lower	Upper	
228	100		
226	29.0	23.0	34.4
229	21.5	17.4	26.0

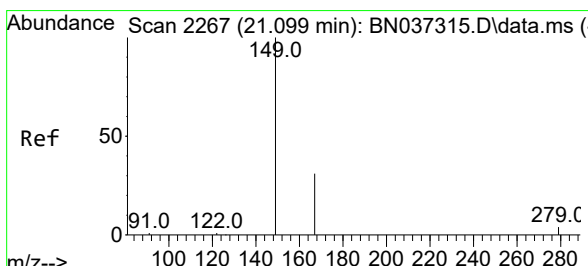
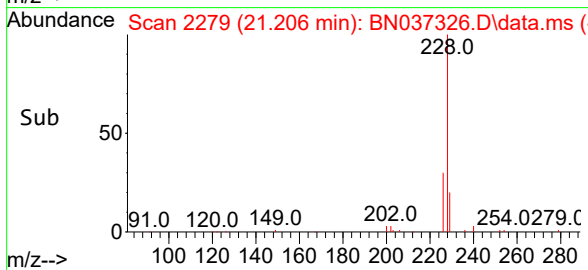
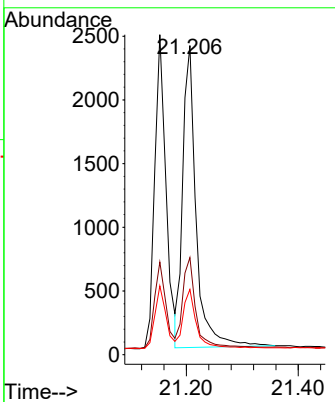
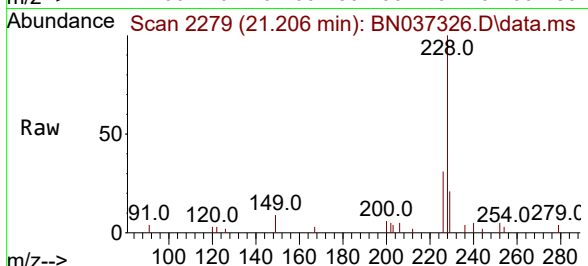




#33
 Chrysene
 Concen: 0.422 ng
 RT: 21.206 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

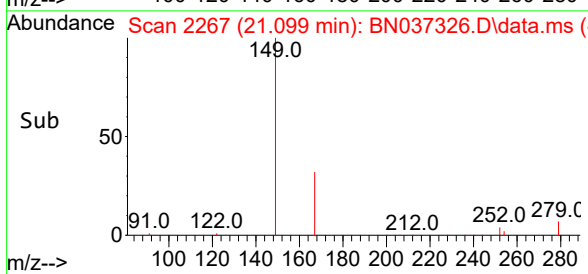
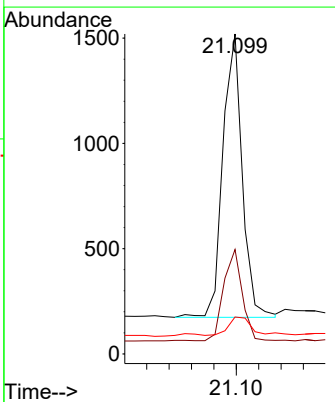
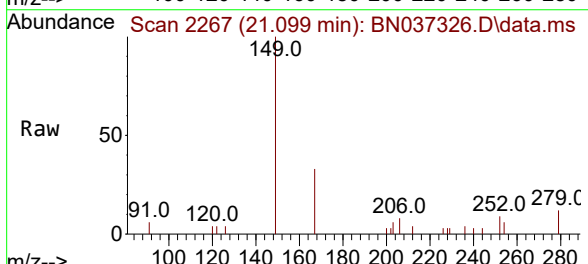
Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS

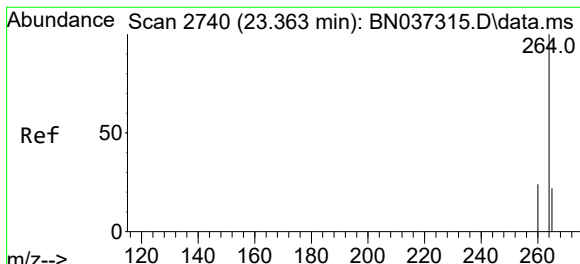
Tgt Ion:	228	Resp:	3940
Ion Ratio	Lower	Upper	
228	100		
226	31.4	25.4	38.2
229	21.1	17.3	25.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.536 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. -0.000 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Tgt Ion:	149	Resp:	1610
Ion Ratio	Lower	Upper	
149	100		
167	31.2	24.6	37.0
279	8.1	6.5	9.7

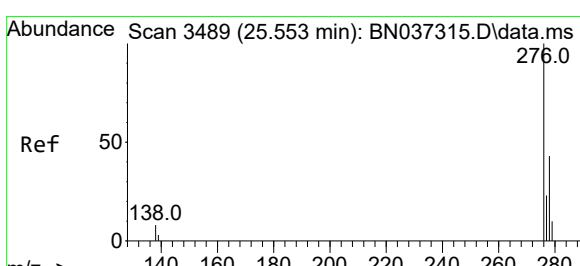
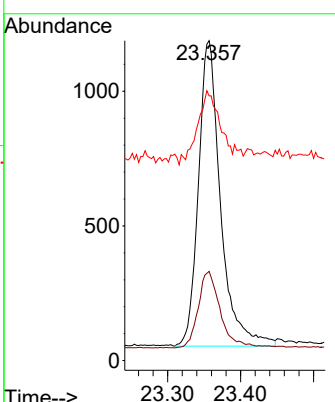
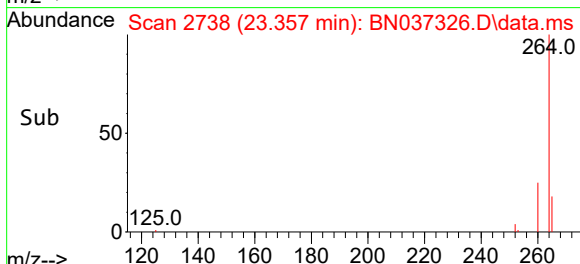
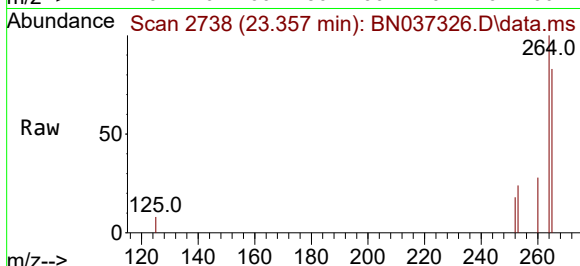




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.357 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

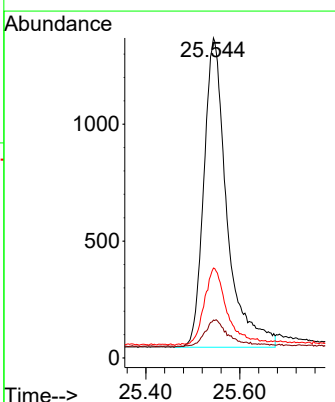
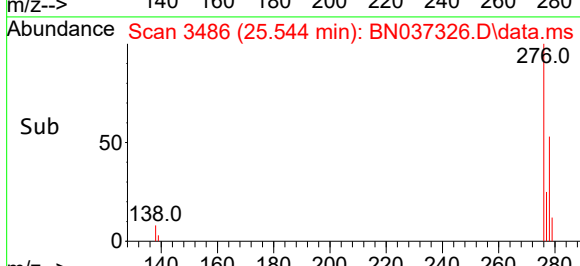
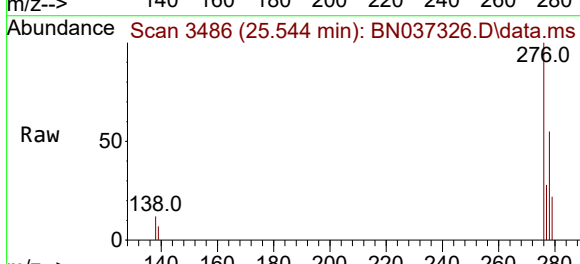
Instrument : BNA_N
 ClientSampleId : TT172S1-20250613MS

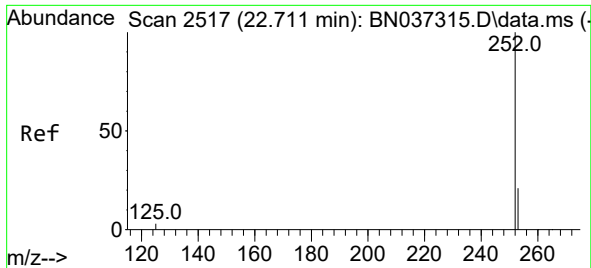
Tgt Ion:	264	Resp:	2391
Ion Ratio	Lower	Upper	
264	100		
260	27.9	21.4	32.2
265	82.7	71.4	107.0



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.448 ng
 RT: 25.544 min Scan# 3486
 Delta R.T. -0.009 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Tgt Ion:	276	Resp:	4505
Ion Ratio	Lower	Upper	
276	100		
138	8.1	2.2	3.2#
277	23.2	17.1	25.7

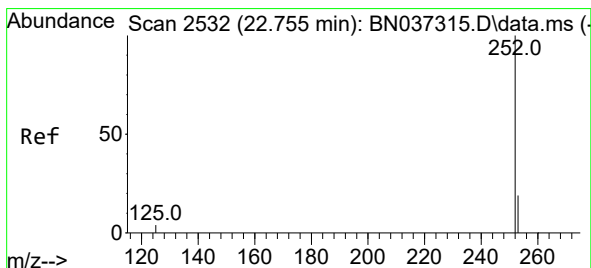
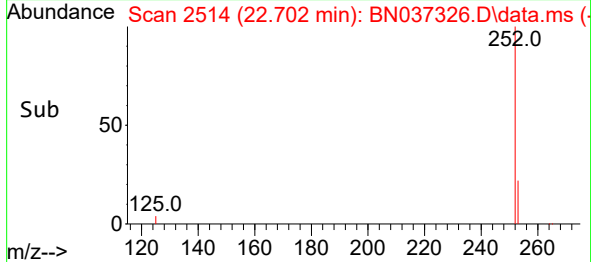
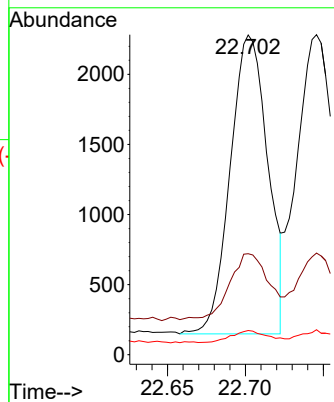
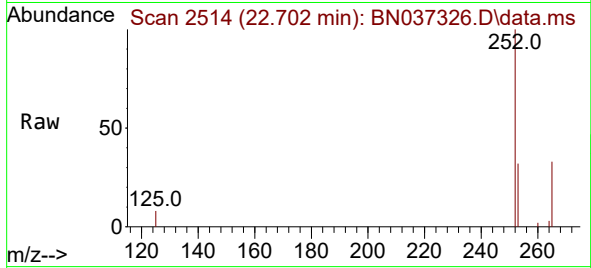




#37
Benzo(b)fluoranthene
Concen: 0.429 ng
RT: 22.702 min Scan# 2514
Delta R.T. -0.009 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

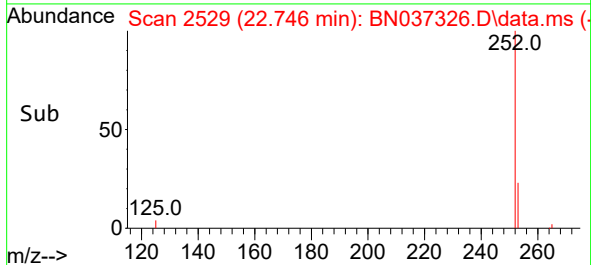
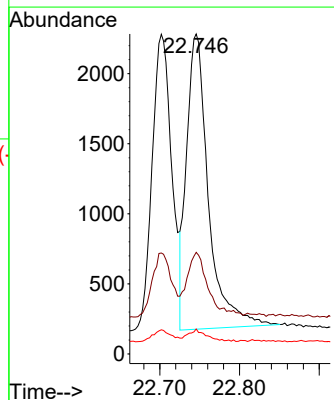
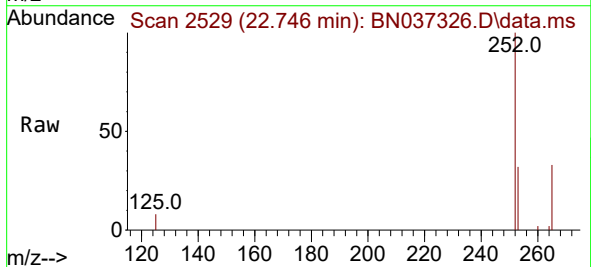
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MS

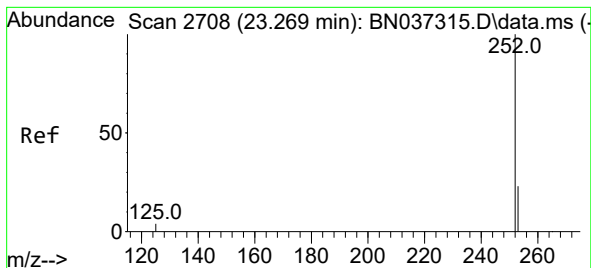
Tgt Ion:252 Resp: 3579
Ion Ratio Lower Upper
252 100
253 31.6 26.6 40.0
125 7.6 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.437 ng
RT: 22.746 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037326.D
Acq: 18 Jun 2025 23:15

Tgt Ion:252 Resp: 4007
Ion Ratio Lower Upper
252 100
253 31.8 26.7 40.1
125 7.8 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.450 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

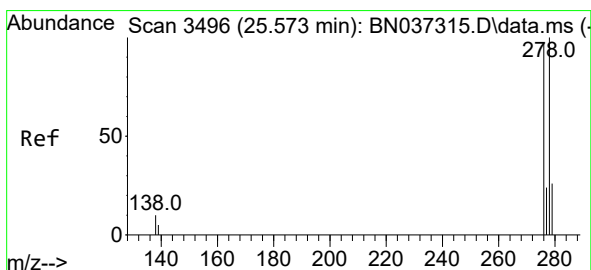
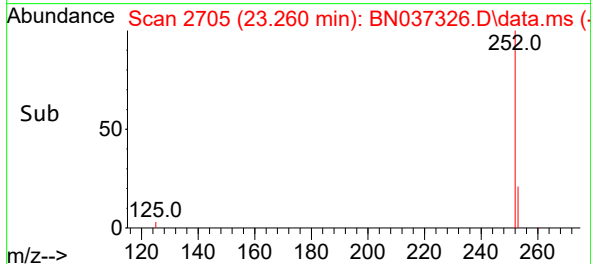
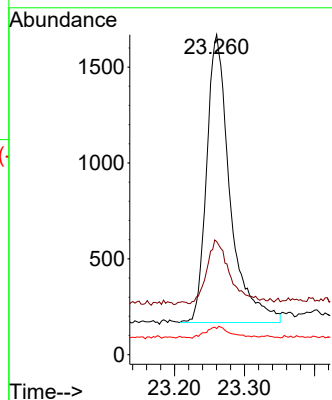
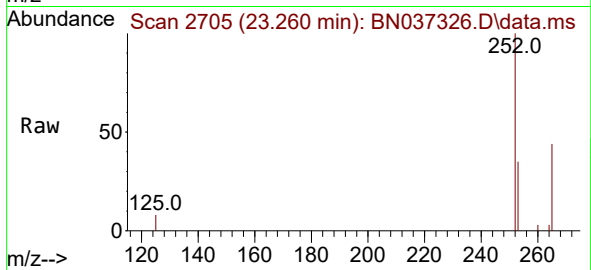
Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MS

Tgt Ion:252	Resp:	3480
Ion Ratio	Lower	Upper
252	100	
253	35.4	31.6 47.4
125	8.1	8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.434 ng

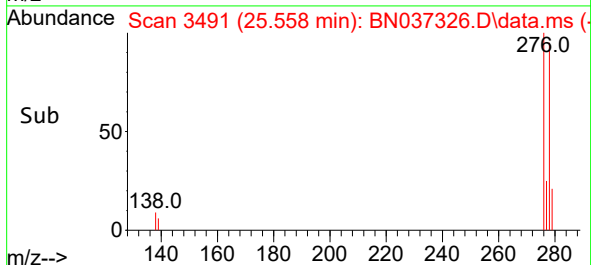
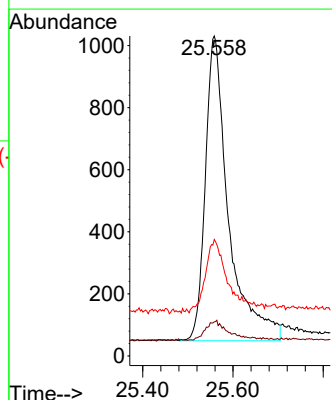
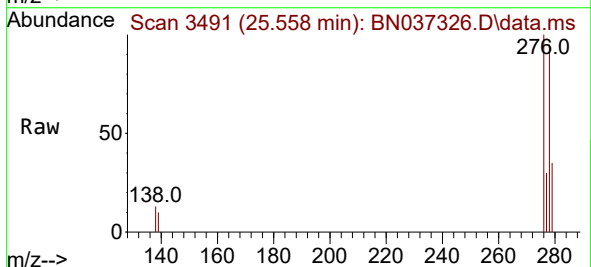
RT: 25.558 min Scan# 3491

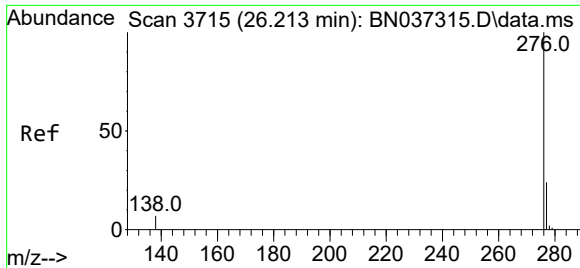
Delta R.T. -0.015 min

Lab File: BN037326.D

Acq: 18 Jun 2025 23:15

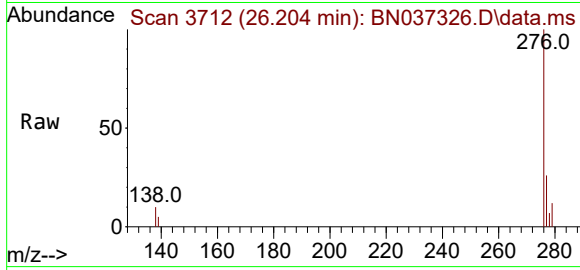
Tgt Ion:278	Resp:	3505
Ion Ratio	Lower	Upper
278	100	
139	10.7	10.2 15.4
279	36.4	35.6 53.4



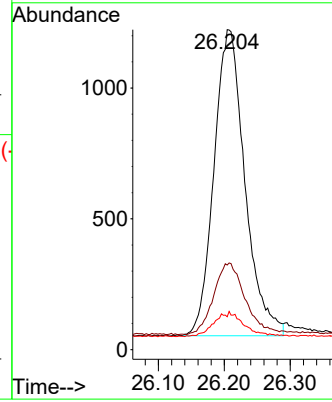
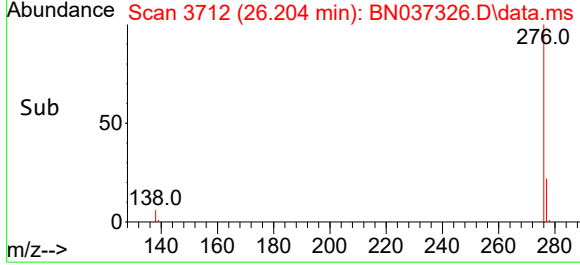


#41
 Benzo(g,h,i)perylene
 Concen: 0.413 ng
 RT: 26.204 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN037326.D
 Acq: 18 Jun 2025 23:15

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MS



Tgt Ion:	276	Resp:	3809
Ion	Ratio	Lower	Upper
276	100		
277	26.4	22.7	34.1
138	10.3	9.4	14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037327.D
 Acq On : 18 Jun 2025 23:52
 Operator : RC/JU
 Sample : Q2329-12MSD
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MSD

Quant Time: Jun 19 02:41:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

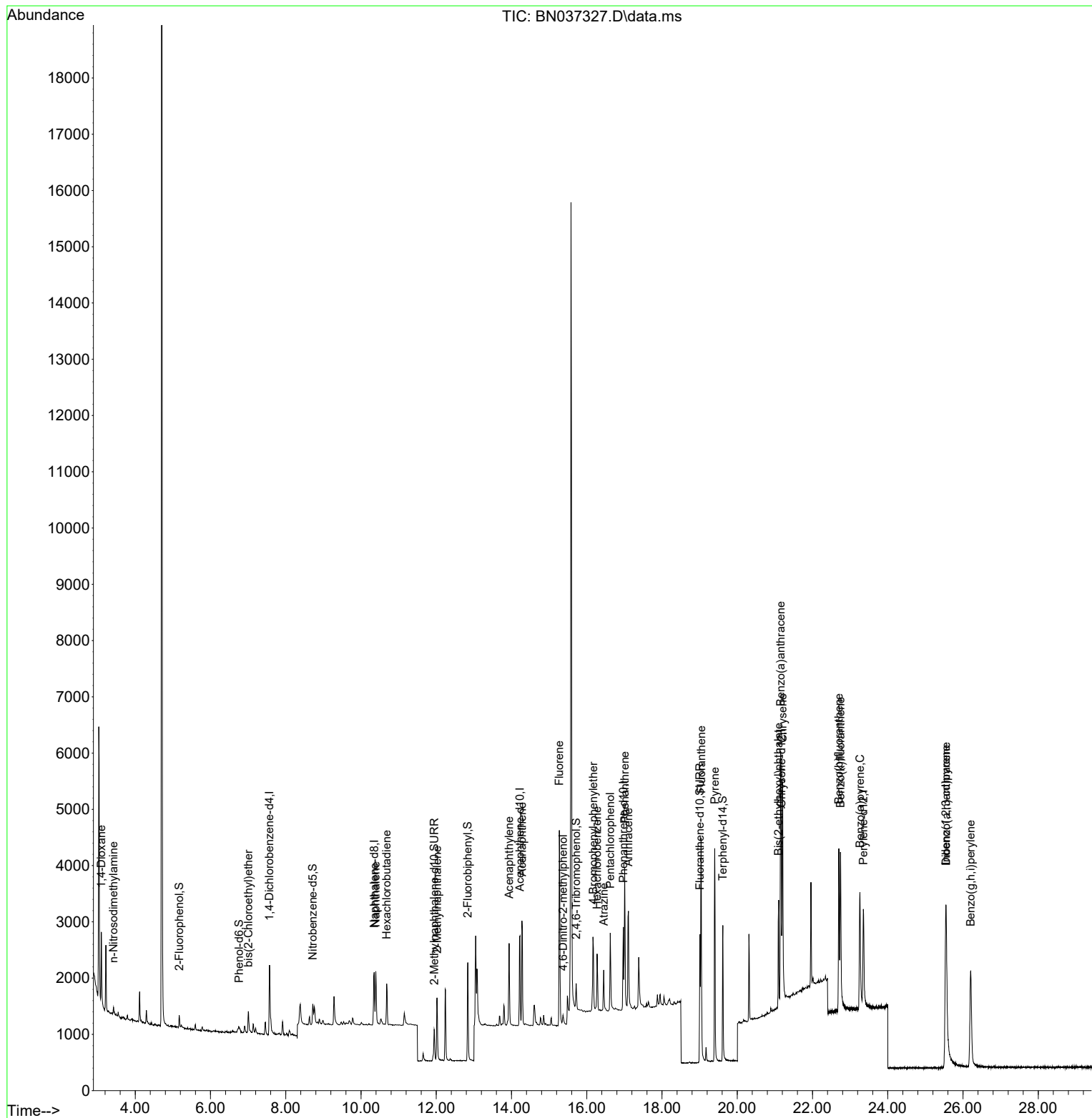
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	652	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1479	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1035	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2193	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2332	0.400	ng	# 0.00
35) Perylene-d12	23.351	264	2470	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	187	0.158	ng	0.00
5) Phenol-d6	6.759	99	103	0.088	ng	0.00
8) Nitrobenzene-d5	8.717	82	397	0.322	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	1010	0.420	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	282	0.369	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	1651	0.364	ng	0.00
27) Fluoranthene-d10	19.008	212	3093	0.445	ng	0.00
31) Terphenyl-d14	19.616	244	2860	0.534	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	836	1.436	ng	# 86
3) n-Nitrosodimethylamine	3.422	42	120	0.178	ng	# 94
6) bis(2-Chloroethyl)ether	7.004	93	330	0.331	ng	90
9) Naphthalene	10.394	128	1308	0.342	ng	98
10) Hexachlorobutadiene	10.682	225	602	0.311	ng	# 97
12) 2-Methylnaphthalene	12.021	142	854	0.317	ng	98
16) Acenaphthylene	13.935	152	1624	0.373	ng	97
17) Acenaphthene	14.277	154	983	0.340	ng	100
18) Fluorene	15.272	166	1532	0.374	ng	98
20) 4,6-Dinitro-2-methylph...	15.368	198	263	0.390	ng	# 80
21) 4-Bromophenyl-phenylether	16.177	248	734	0.403	ng	# 93
22) Hexachlorobenzene	16.276	284	716	0.376	ng	98
23) Atrazine	16.450	200	667	0.469	ng	# 89
24) Pentachlorophenol	16.624	266	786	0.744	ng	97
25) Phenanthrene	17.009	178	2704	0.438	ng	99
26) Anthracene	17.108	178	2487	0.429	ng	99
28) Fluoranthene	19.040	202	3796	0.443	ng	# 96
30) Pyrene	19.403	202	3860	0.435	ng	99
32) Benzo(a)anthracene	21.153	228	3683	0.490	ng	98
33) Chrysene	21.207	228	4114	0.429	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1600	0.520	ng	99
36) Indeno(1,2,3-cd)pyrene	25.541	276	4780	0.460	ng	# 93
37) Benzo(b)fluoranthene	22.699	252	3789	0.439	ng	97
38) Benzo(k)fluoranthene	22.743	252	4103	0.433	ng	97
39) Benzo(a)pyrene	23.260	252	3593	0.450	ng	94
40) Dibenzo(a,h)anthracene	25.553	278	3494	0.419	ng	# 87
41) Benzo(g,h,i)perylene	26.205	276	4093	0.430	ng	98

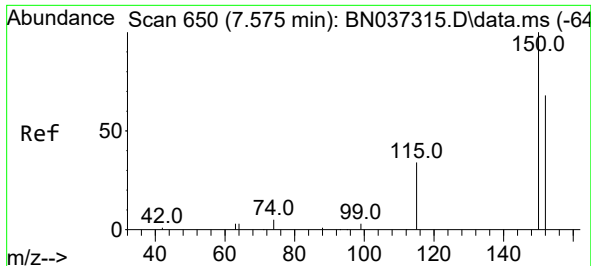
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037327.D
Acq On : 18 Jun 2025 23:52
Operator : RC/JU
Sample : Q2329-12MSD
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

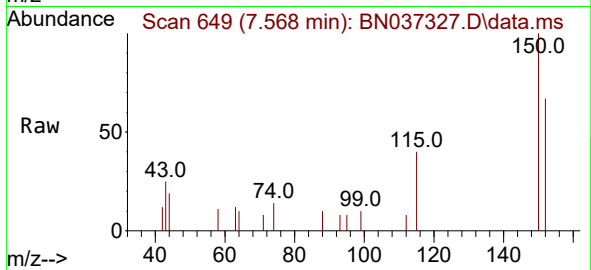
Quant Time: Jun 19 02:41:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration



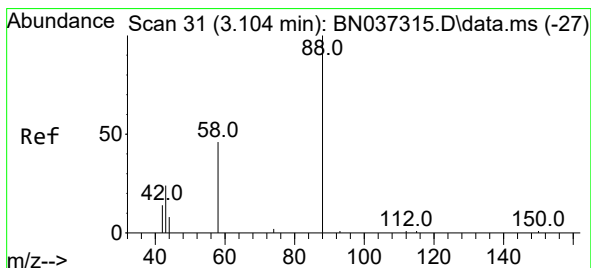
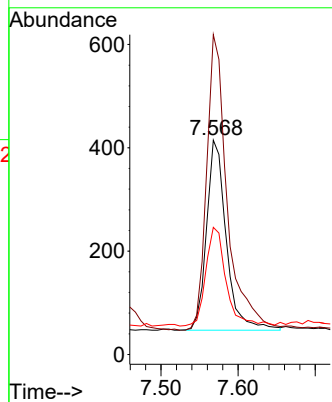
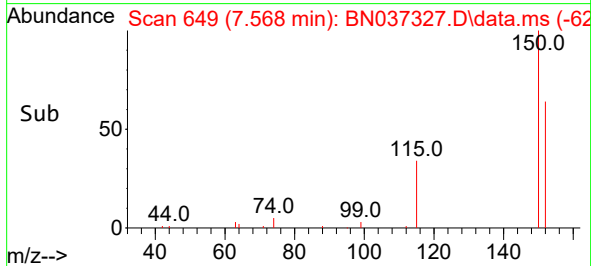


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

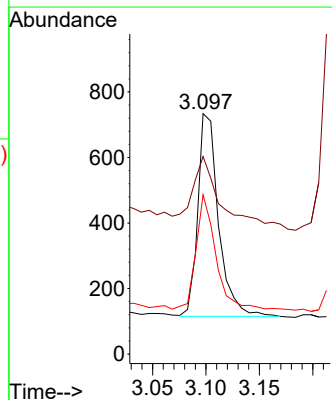
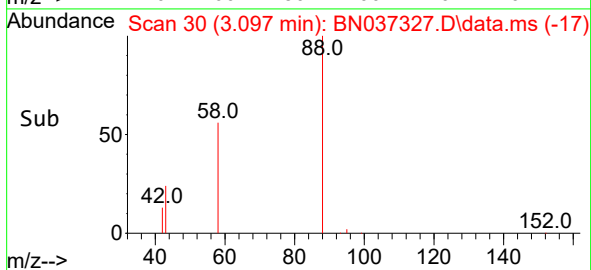
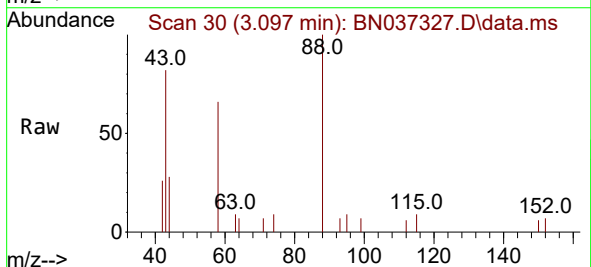


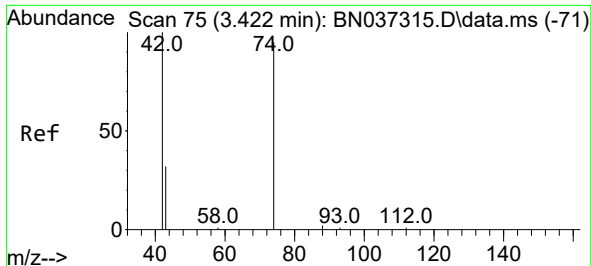
Tgt Ion:152 Resp: 652
Ion Ratio Lower Upper
152 100
150 149.2 112.7 169.1
115 59.3 45.9 68.9



#2
1,4-Dioxane
Concen: 1.436 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion: 88 Resp: 836
Ion Ratio Lower Upper
88 100
43 39.5 21.0 31.6#
58 52.9 38.0 57.0

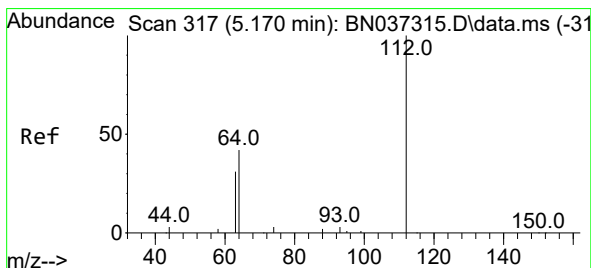
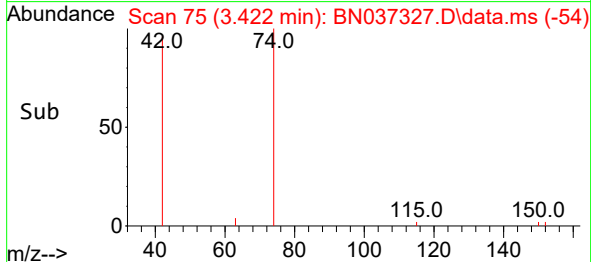
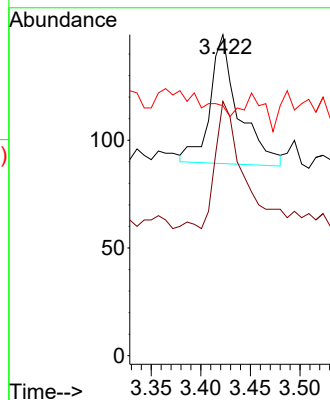
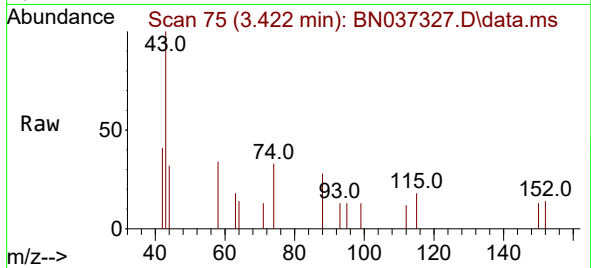




#3
 n-Nitrosodimethylamine
 Concen: 0.178 ng
 RT: 3.422 min Scan# 71
 Delta R.T. -0.000 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

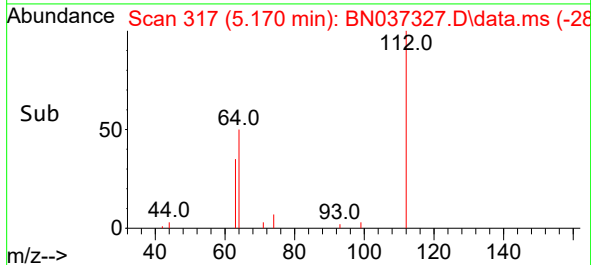
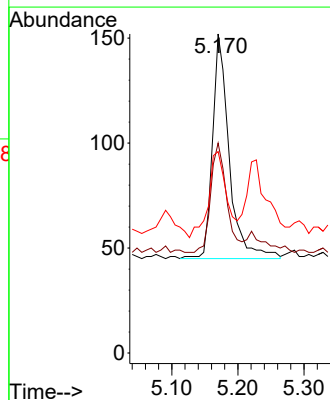
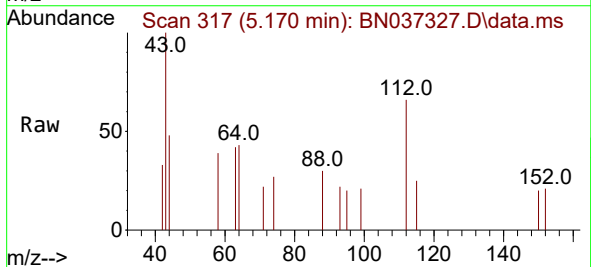
Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MSD

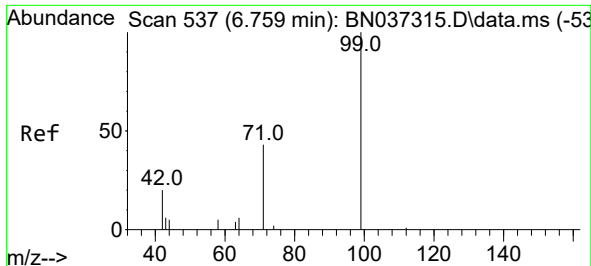
Tgt Ion: 42 Resp: 120
 Ion Ratio Lower Upper
 42 100
 74 110.8 84.3 126.5
 44 0.0 5.0 7.4#



#4
 2-Fluorophenol
 Concen: 0.158 ng
 RT: 5.170 min Scan# 317
 Delta R.T. -0.000 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

Tgt Ion: 112 Resp: 187
 Ion Ratio Lower Upper
 112 100
 64 47.1 38.7 58.1
 63 41.2 26.4 39.6#

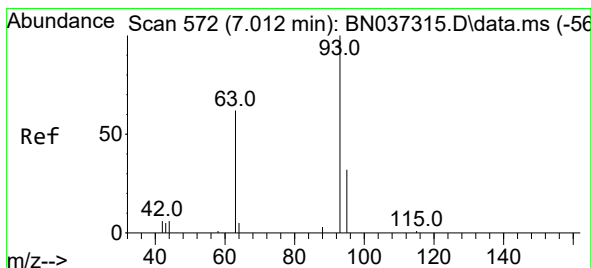
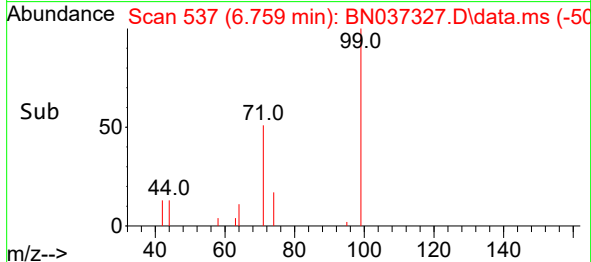
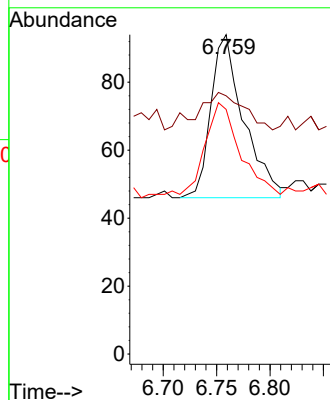
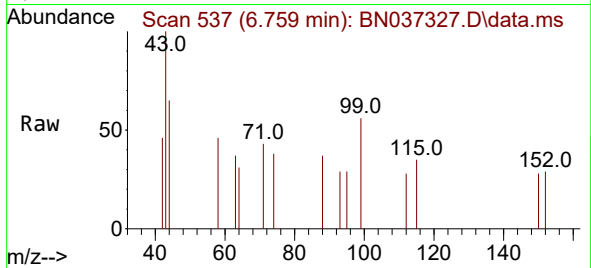




#5
Phenol-d6
Concen: 0.088 ng
RT: 6.759 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

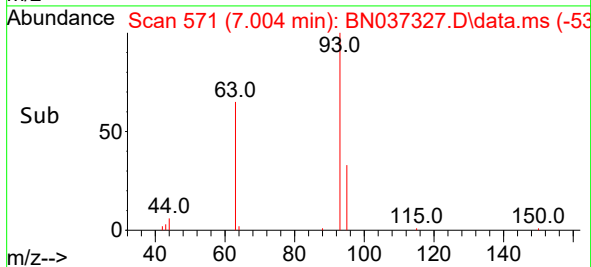
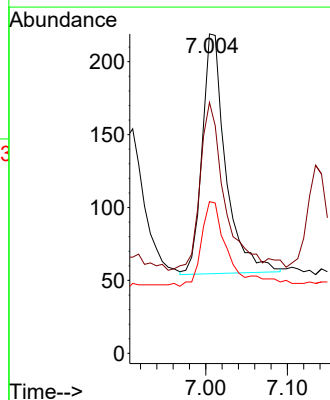
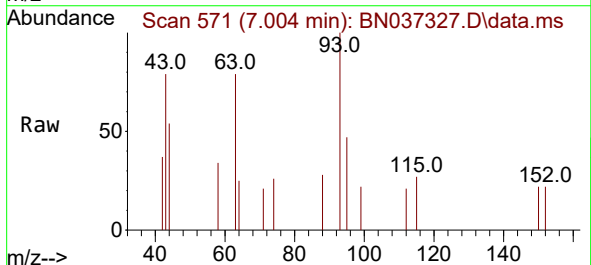
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

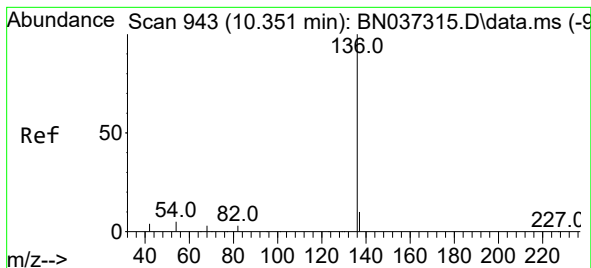
Tgt Ion: 99 Resp: 103
Ion Ratio Lower Upper
99 100
42 31.1 19.8 29.8#
71 58.3 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.331 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion: 93 Resp: 330
Ion Ratio Lower Upper
93 100
63 75.5 53.2 79.8
95 37.9 27.3 40.9





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 94

Delta R.T. -0.000 min

Lab File: BN037327.D

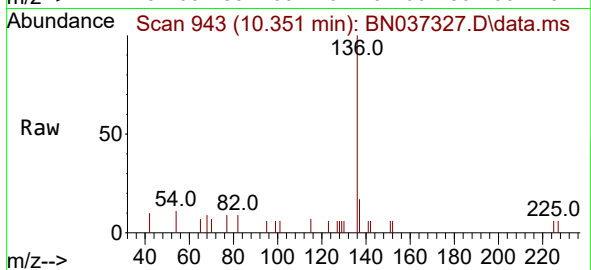
Acq: 18 Jun 2025 23:52

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD



Tgt Ion:136 Resp: 1479

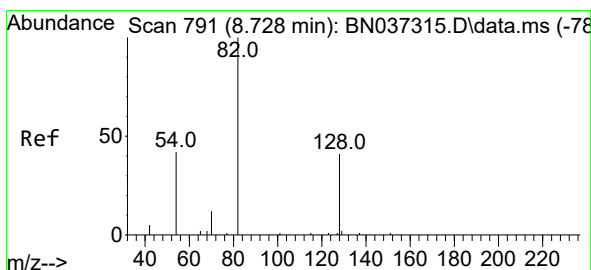
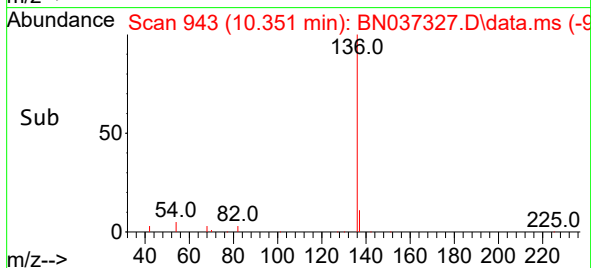
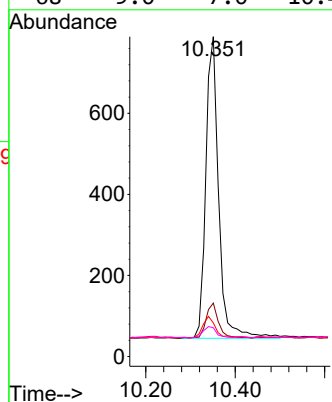
Ion Ratio Lower Upper

136 100

137 16.7 12.2 18.2

54 10.5 8.8 13.2

68 9.0 7.0 10.4



#8

Nitrobenzene-d5

Concen: 0.322 ng

RT: 8.717 min Scan# 790

Delta R.T. -0.011 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

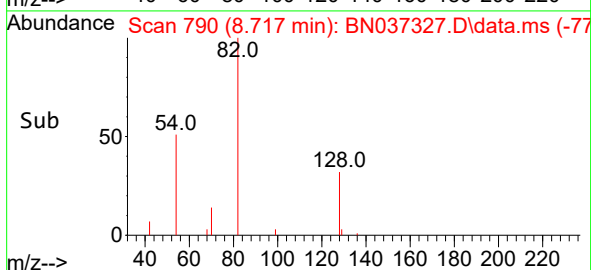
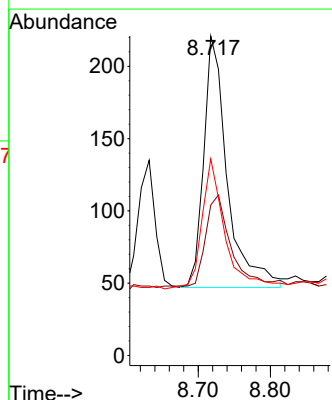
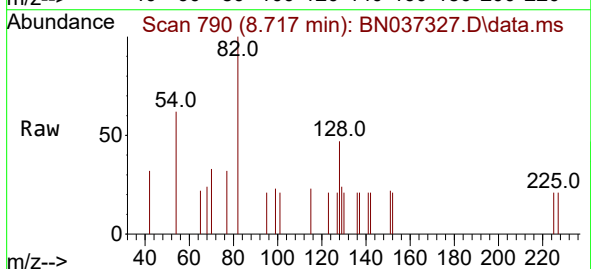
Tgt Ion: 82 Resp: 397

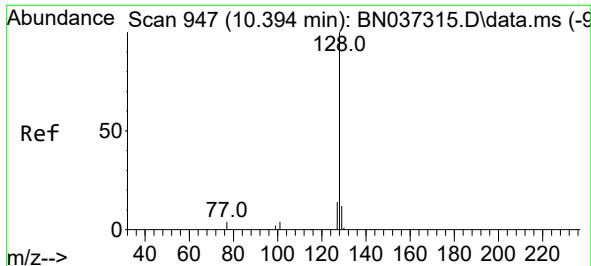
Ion Ratio Lower Upper

82 100

128 47.1 42.5 63.7

54 61.5 43.2 64.8

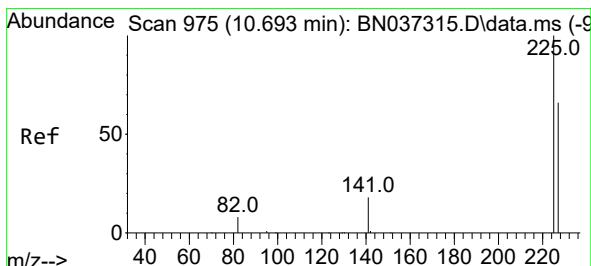
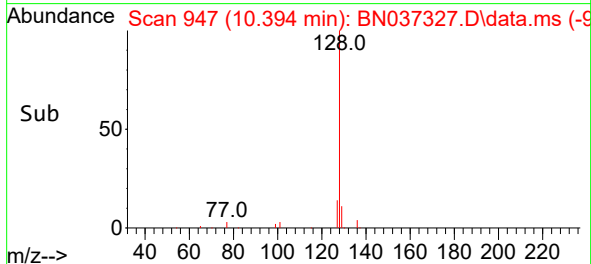
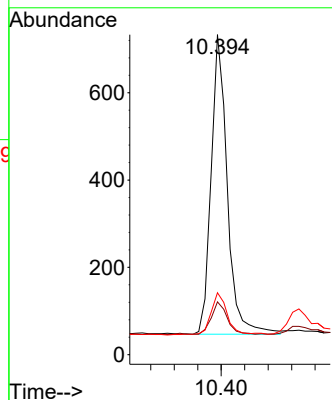
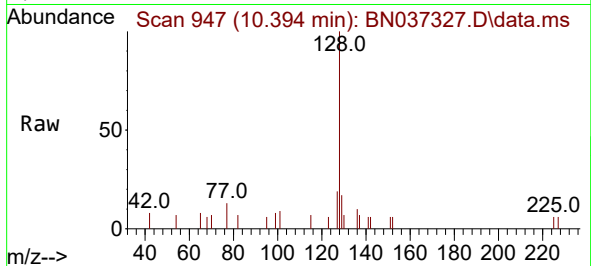




#9
Naphthalene
Concen: 0.342 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

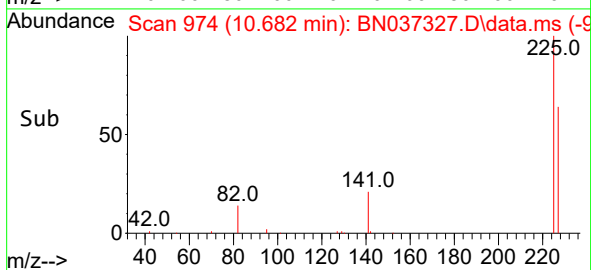
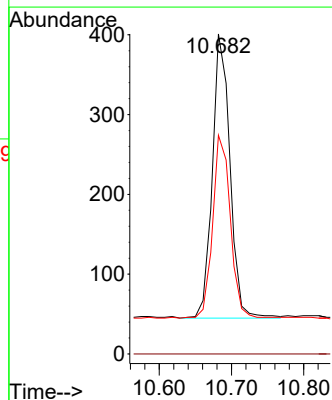
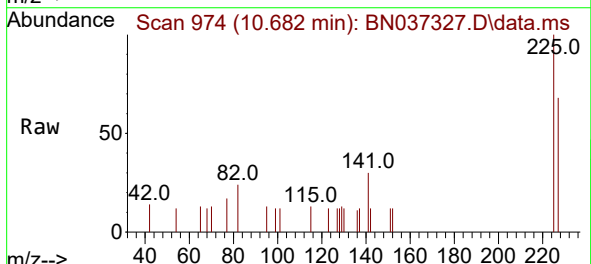
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

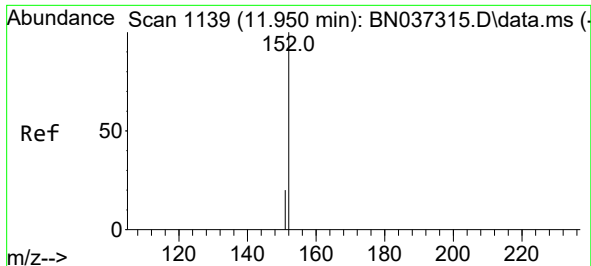
Tgt Ion:	128	Resp:	1308
Ion	Ratio	Lower	Upper
128	100		
129	16.5	14.0	21.0
127	19.4	15.8	23.8



#10
Hexachlorobutadiene
Concen: 0.311 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:	225	Resp:	602
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	50.3	75.5





#11

2-Methylnaphthalene-d10

Concen: 0.420 ng

RT: 11.945 min Scan# 1138

Delta R.T. -0.005 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

Instrument :

BNA_N

ClientSampleId :

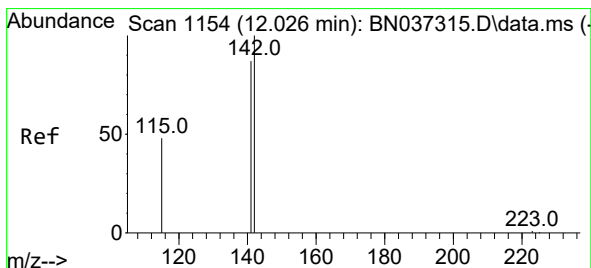
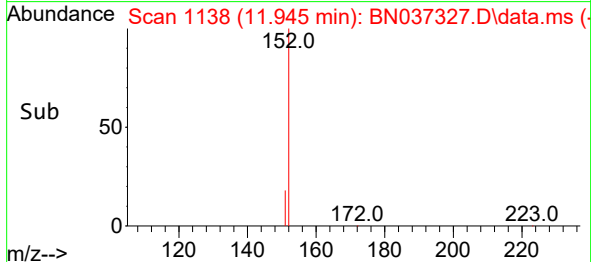
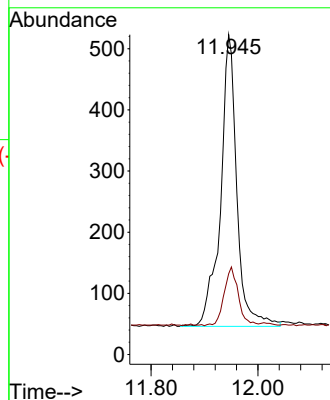
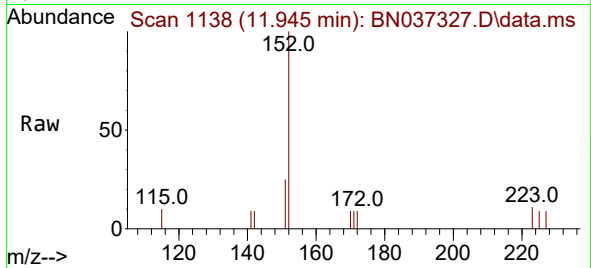
TT172S1-20250613MSD

Tgt Ion:152 Resp: 1010

Ion Ratio Lower Upper

152 100

151 17.6 17.4 26.0



#12

2-Methylnaphthalene

Concen: 0.317 ng

RT: 12.021 min Scan# 1153

Delta R.T. -0.005 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

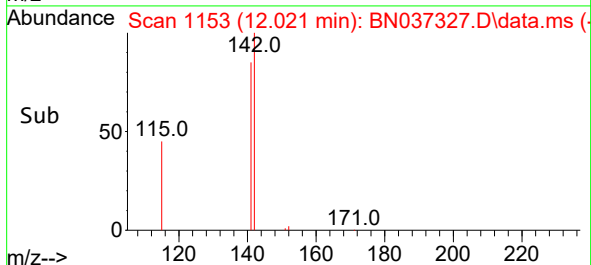
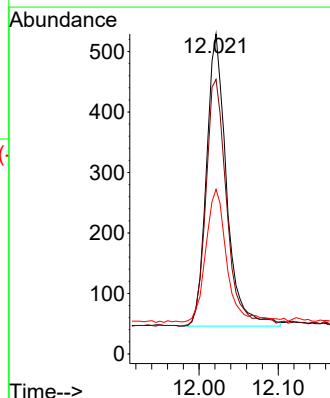
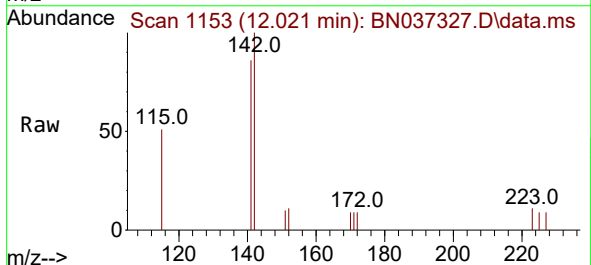
Tgt Ion:142 Resp: 854

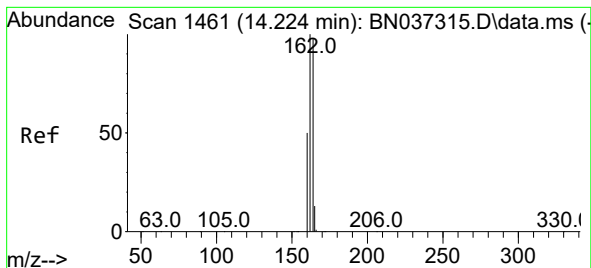
Ion Ratio Lower Upper

142 100

141 85.8 70.2 105.2

115 51.4 43.0 64.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD

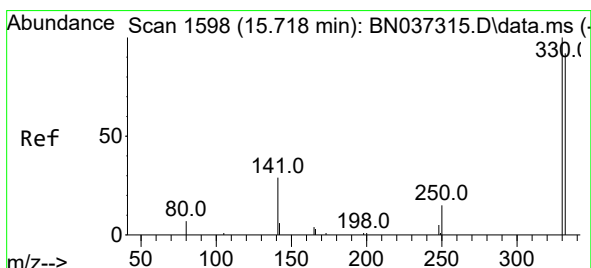
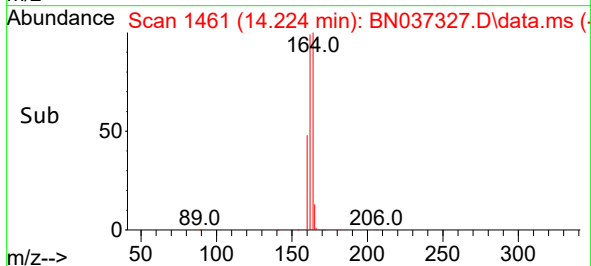
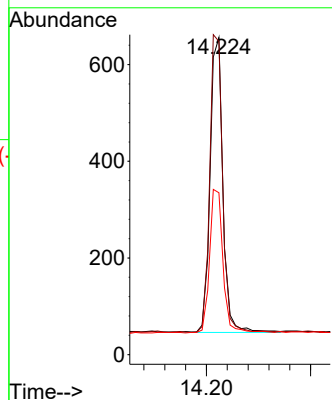
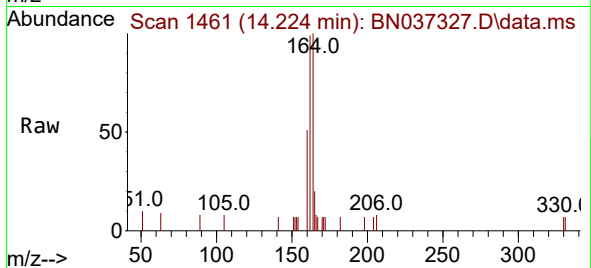
Tgt Ion:164 Resp: 1035

Ion Ratio Lower Upper

164 100

162 98.8 81.5 122.3

160 51.1 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 0.369 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

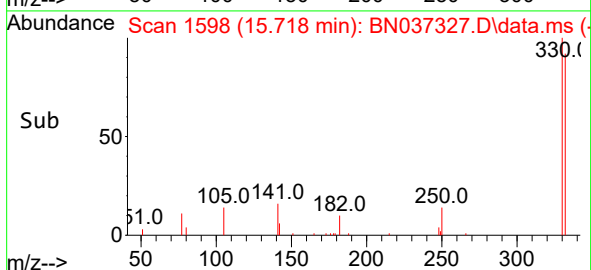
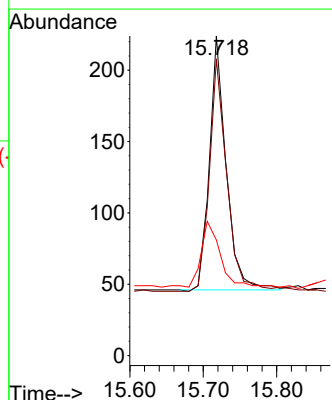
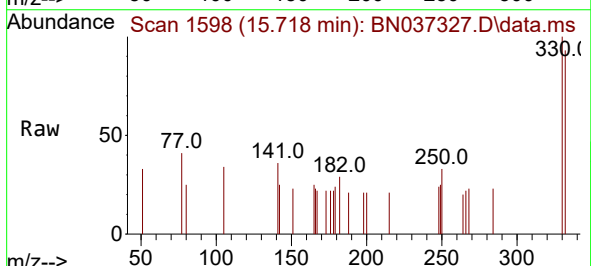
Tgt Ion:330 Resp: 282

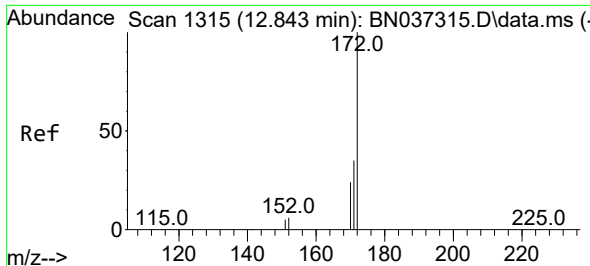
Ion Ratio Lower Upper

330 100

332 97.5 78.4 117.6

141 32.6 24.4 36.6

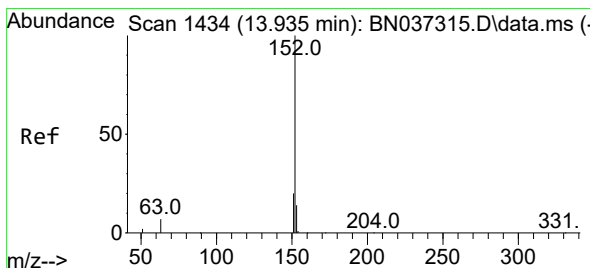
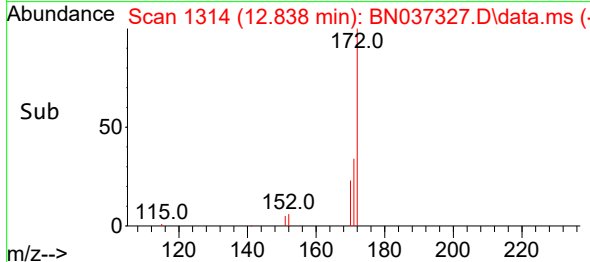
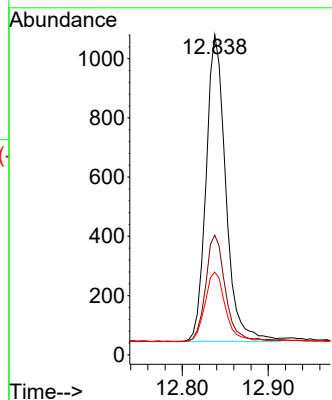
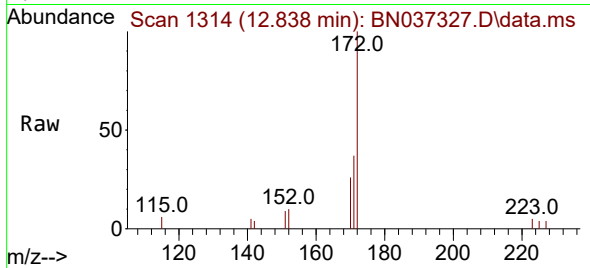




#15
2-Fluorobiphenyl
Concen: 0.364 ng
RT: 12.838 min Scan# 1315
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

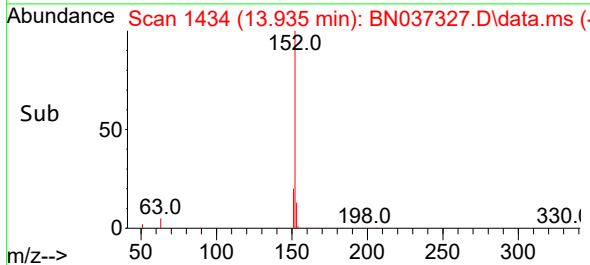
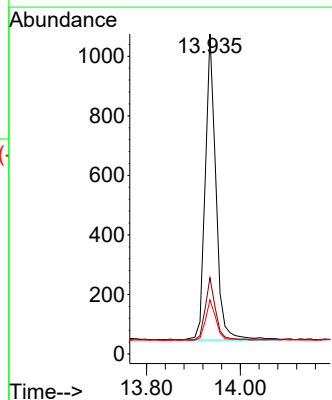
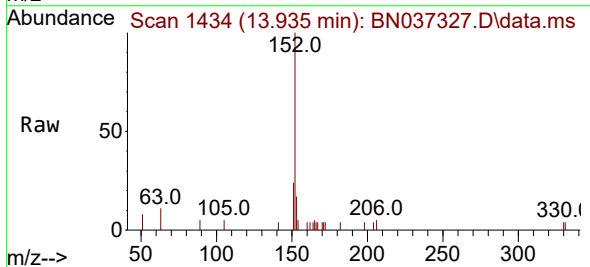
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

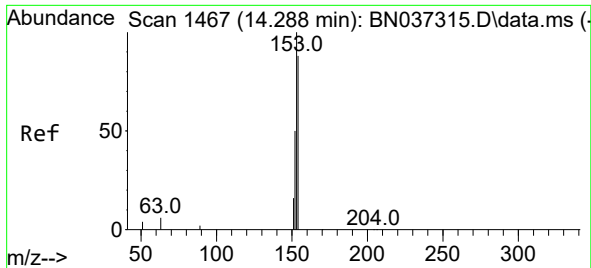
Tgt Ion:172	Resp:	1651
Ion Ratio	Lower	Upper
172	100	
171	37.4	30.8 46.2
170	25.8	21.9 32.9



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:152	Resp:	1624
Ion Ratio	Lower	Upper
152	100	
151	19.1	16.6 24.8
153	13.3	10.2 15.2

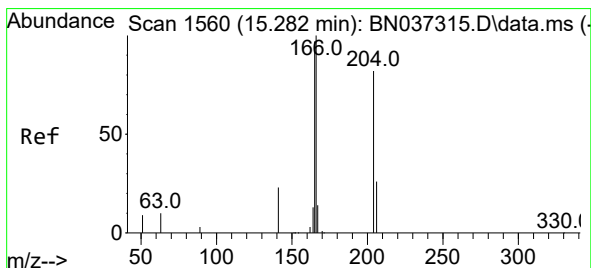
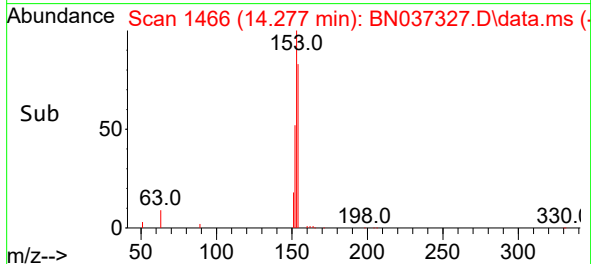
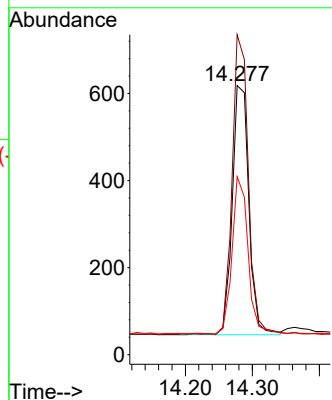
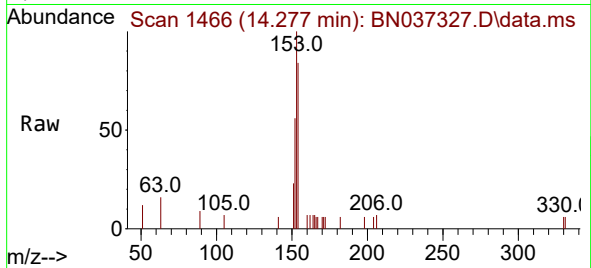




#17
Acenaphthene
Concen: 0.340 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

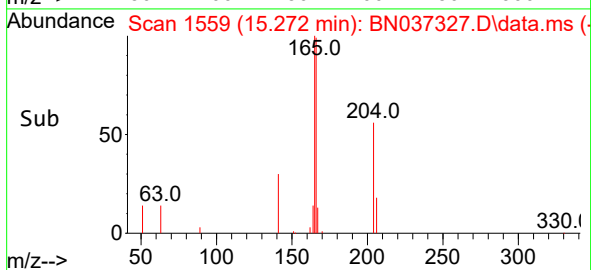
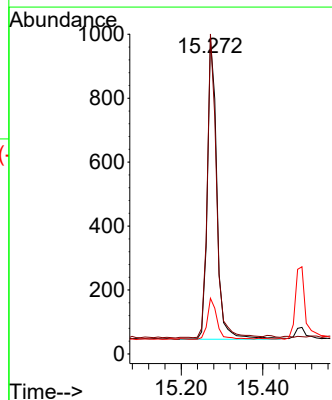
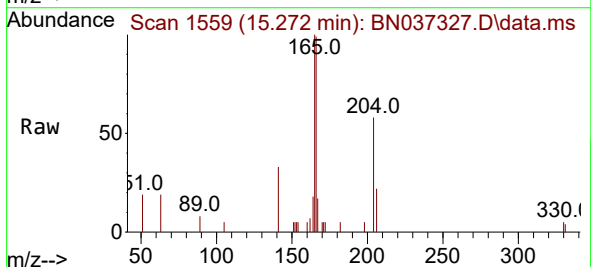
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

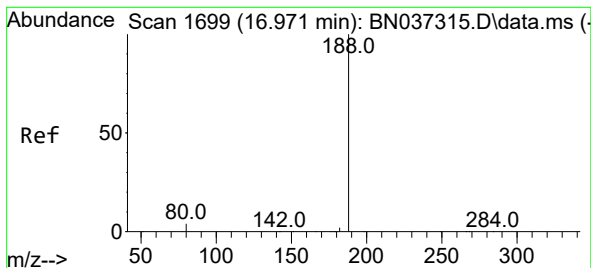
Tgt Ion:154 Resp: 983
Ion Ratio Lower Upper
154 100
153 116.8 93.1 139.7
152 60.2 48.6 73.0



#18
Fluorene
Concen: 0.374 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:166 Resp: 1532
Ion Ratio Lower Upper
166 100
165 96.9 79.5 119.3
167 13.8 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: BN037327.D

Acq: 18 Jun 2025 23:52

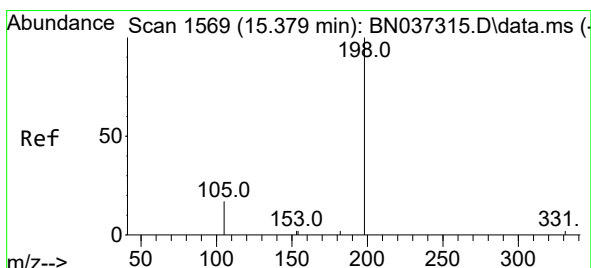
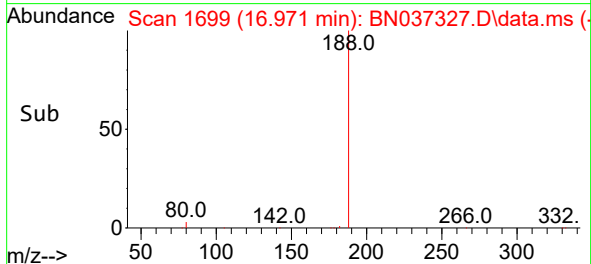
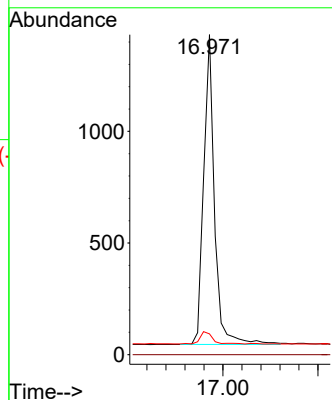
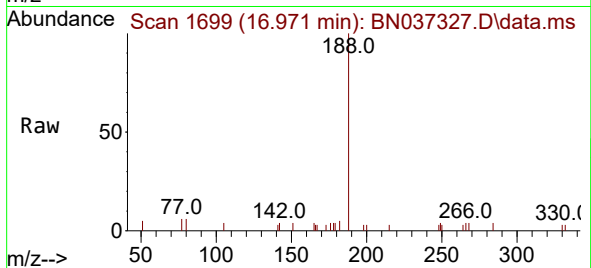
Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD

Tgt Ion:	188	Resp:	2193
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: 0.390 ng

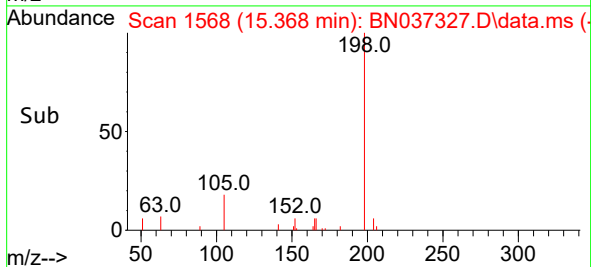
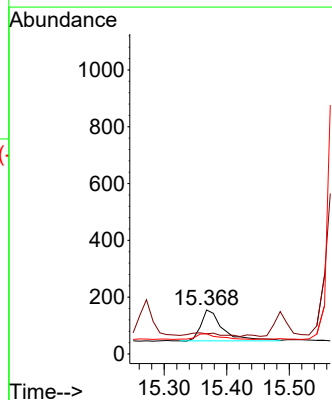
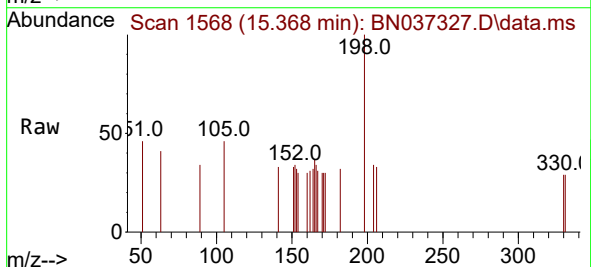
RT: 15.368 min Scan# 1568

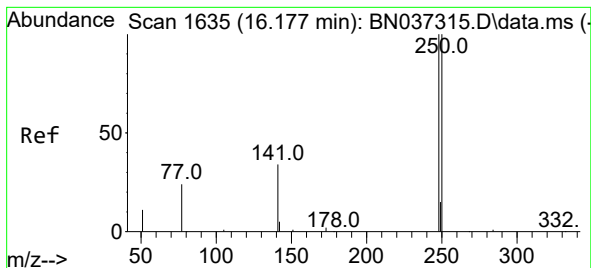
Delta R.T. -0.011 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

Tgt Ion:	198	Resp:	263
Ion Ratio	Lower	Upper	
198	100		
51	45.8	51.4	77.0#
105	45.8	45.5	68.3

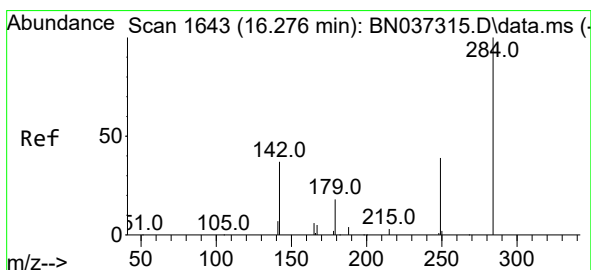
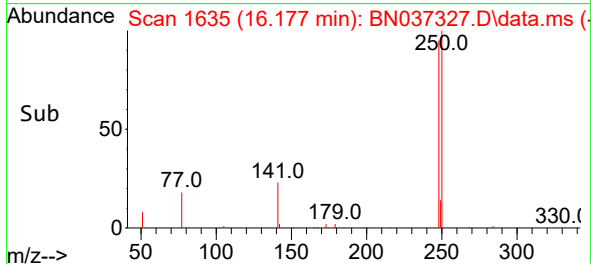
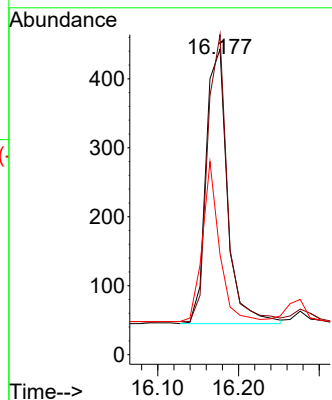
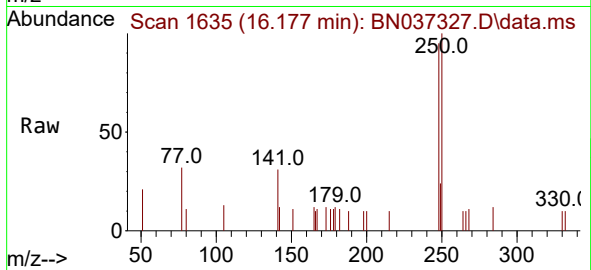




#21
4-Bromophenyl-phenylether
Concen: 0.403 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

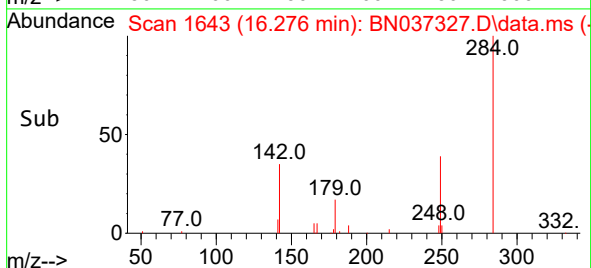
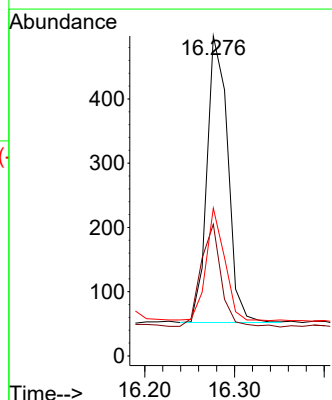
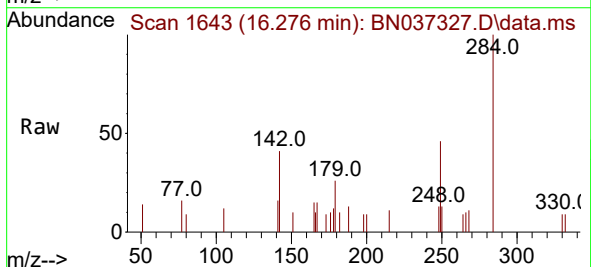
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

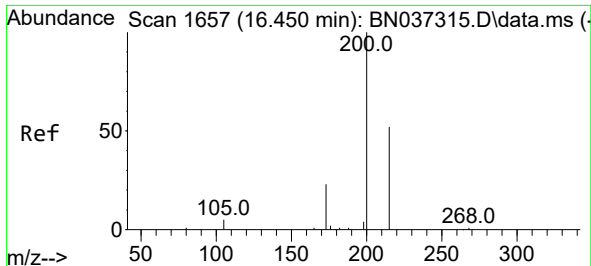
Tgt Ion:248 Resp: 734
Ion Ratio Lower Upper
248 100
250 104.7 80.4 120.6
141 32.7 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.376 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:284 Resp: 716
Ion Ratio Lower Upper
284 100
142 35.5 27.0 40.6
249 36.7 28.8 43.2

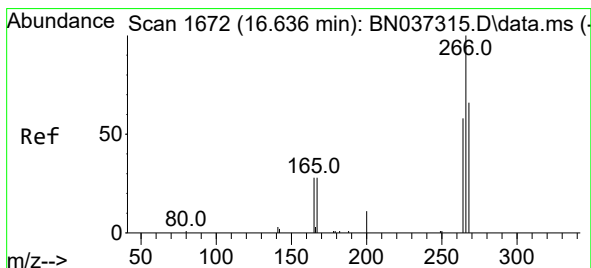
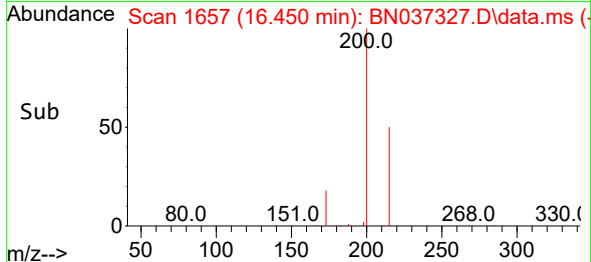
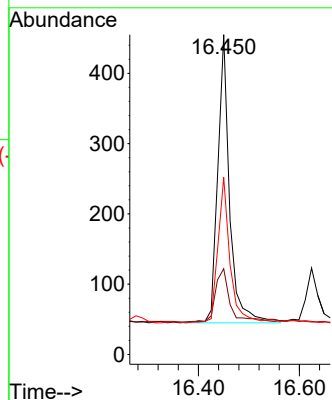
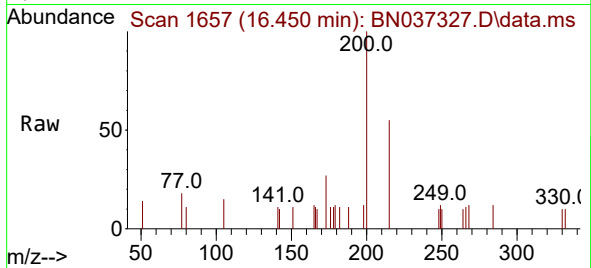




#23
 Atrazine
 Concen: 0.469 ng
 RT: 16.450 min Scan# 1657
 Delta R.T. -0.000 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

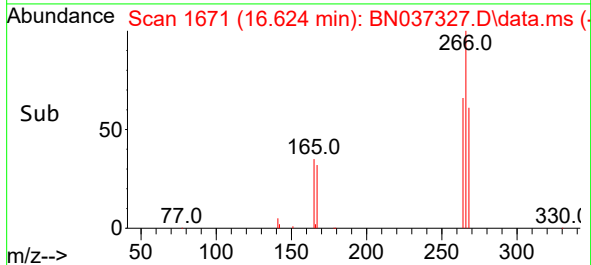
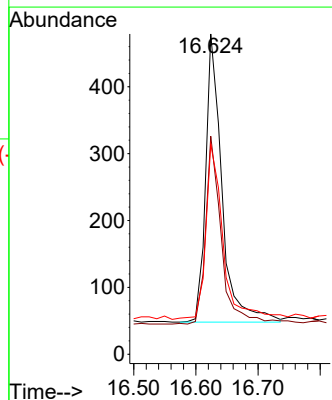
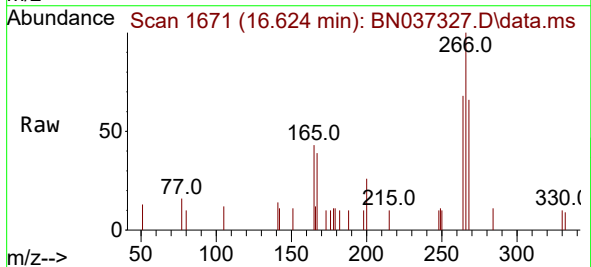
Instrument :
 BNA_N
 ClientSampleId :
 TT172S1-20250613MSD

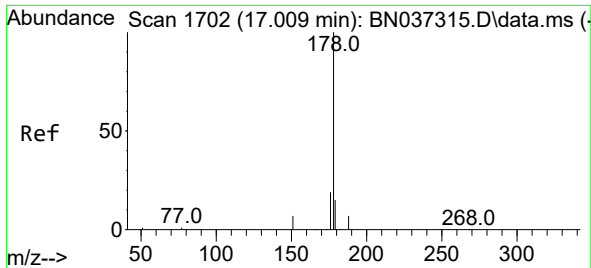
Tgt Ion:200 Resp: 667
 Ion Ratio Lower Upper
 200 100
 173 26.8 29.2 43.8#
 215 55.4 48.8 73.2



#24
 Pentachlorophenol
 Concen: 0.744 ng
 RT: 16.624 min Scan# 1671
 Delta R.T. -0.012 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

Tgt Ion:266 Resp: 786
 Ion Ratio Lower Upper
 266 100
 264 64.0 50.3 75.5
 268 65.0 55.3 82.9

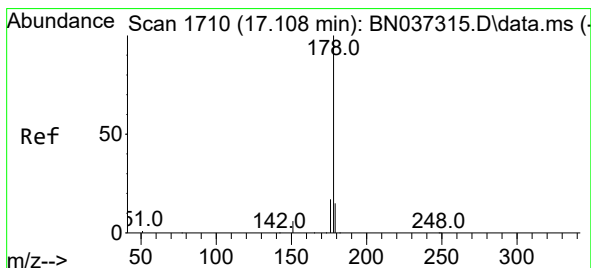
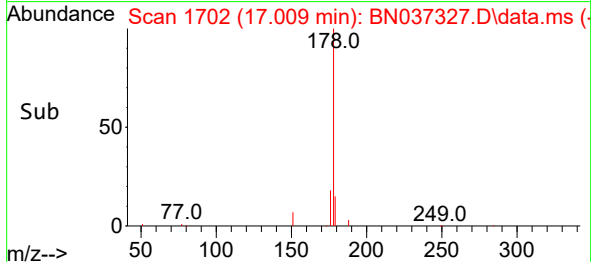
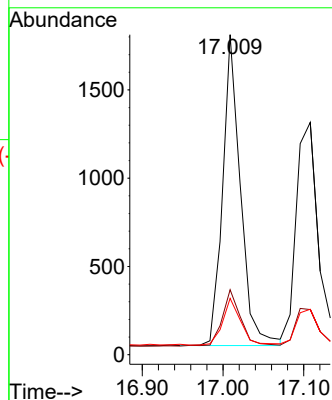
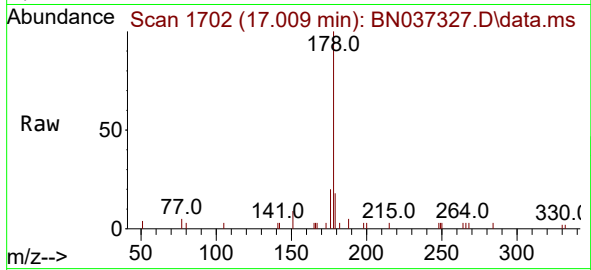




#25
Phenanthrene
Concen: 0.438 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

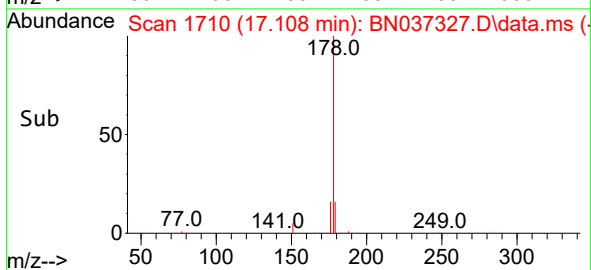
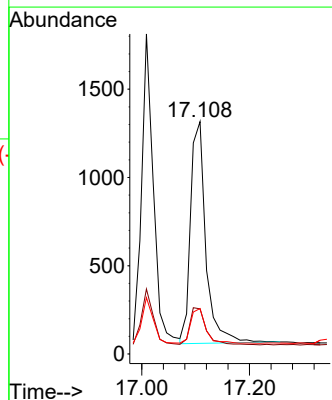
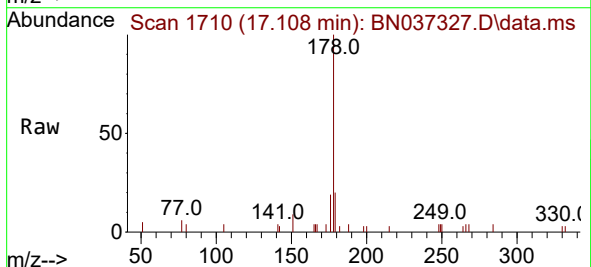
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

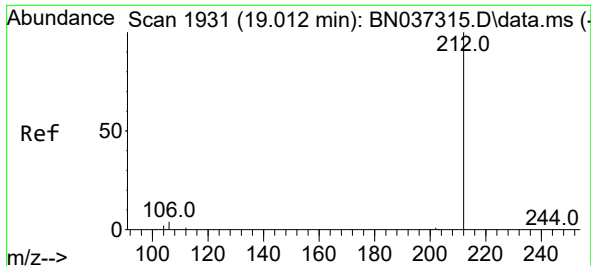
Tgt Ion:178 Resp: 2704
Ion Ratio Lower Upper
178 100
176 18.8 15.2 22.8
179 15.3 12.9 19.3



#26
Anthracene
Concen: 0.429 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:178 Resp: 2487
Ion Ratio Lower Upper
178 100
176 18.0 14.7 22.1
179 15.7 13.0 19.6

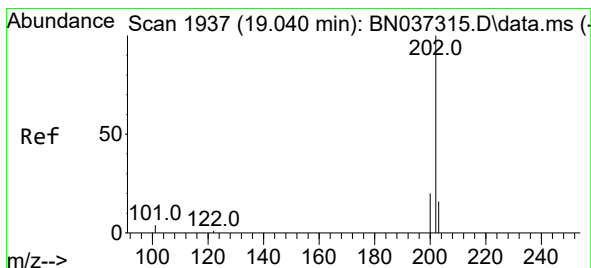
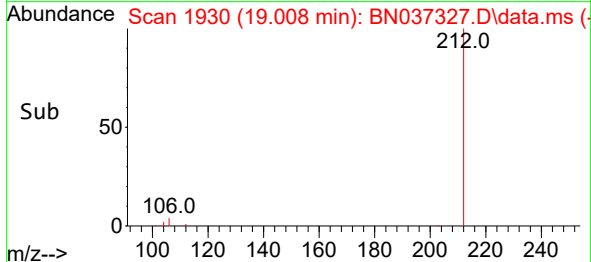
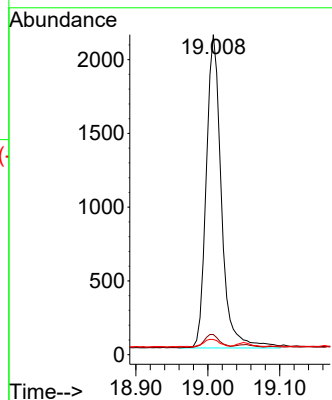
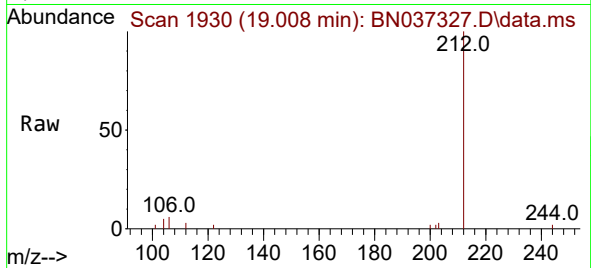




#27
Fluoranthene-d10
Concen: 0.445 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

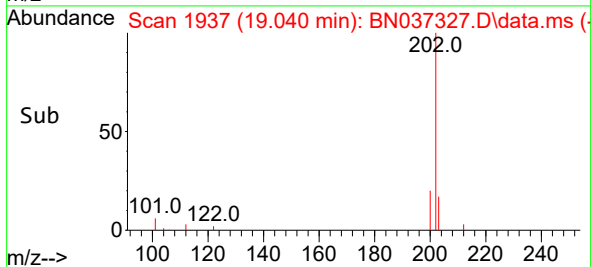
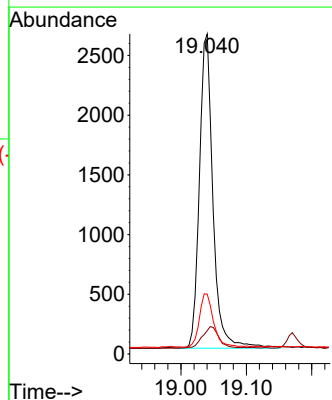
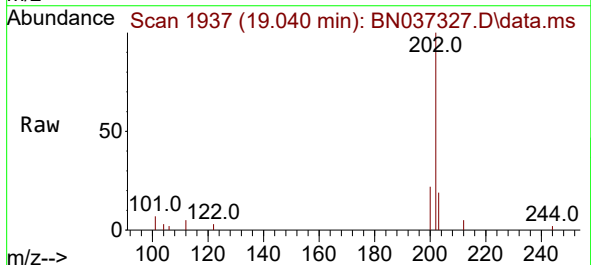
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

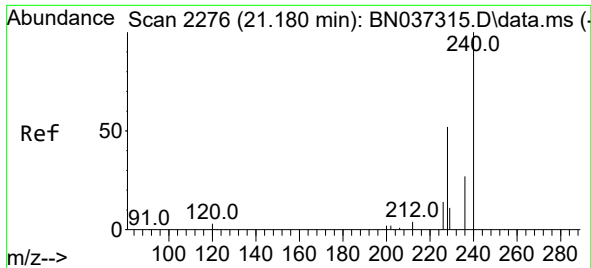
Tgt Ion	Ratio	Lower	Upper
212	100		
106	4.2	3.0	4.4
104	2.6	2.0	3.0



#28
Fluoranthene
Concen: 0.443 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.5	3.0	4.6
203	17.8	13.7	20.5

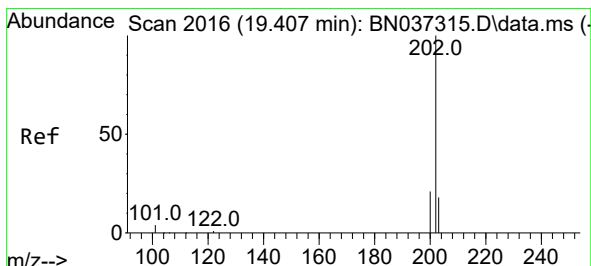
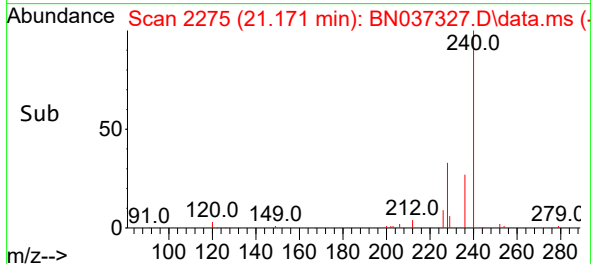
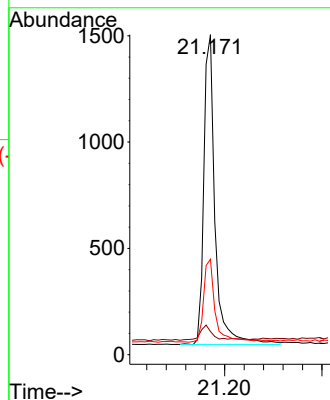
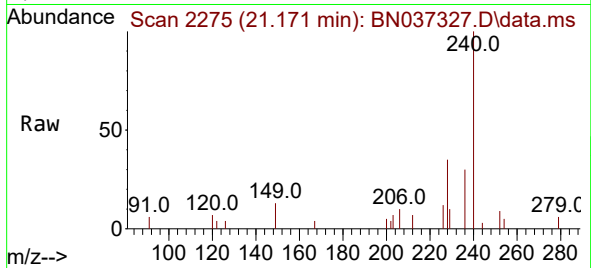




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 211
Delta R.T. -0.009 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

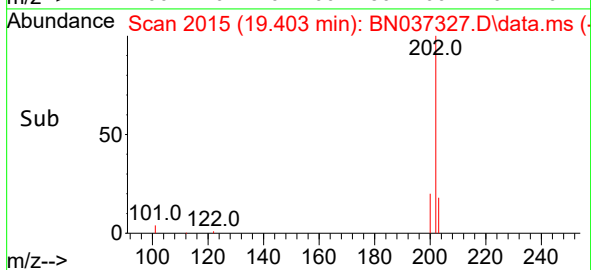
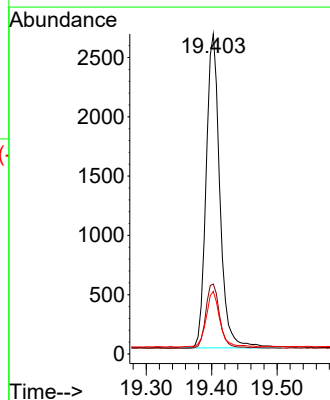
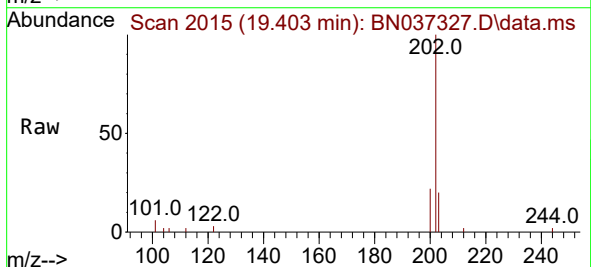
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

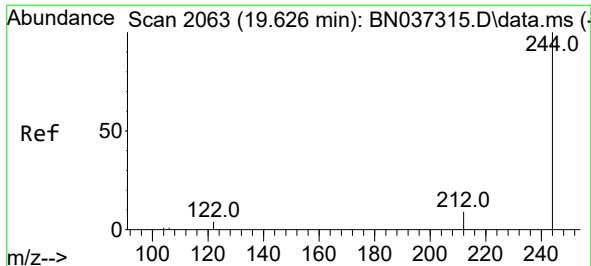
Tgt Ion:240 Resp: 2332
Ion Ratio Lower Upper
240 100
120 7.2 7.5 11.3#
236 29.8 24.9 37.3



#30
Pyrene
Concen: 0.435 ng
RT: 19.403 min Scan# 2015
Delta R.T. -0.005 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

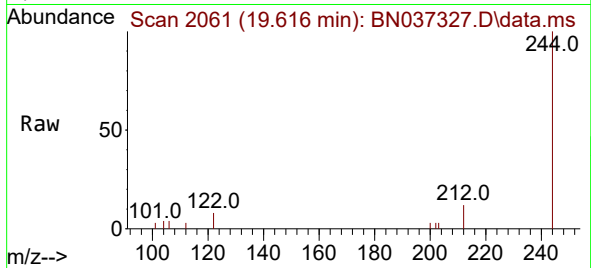
Tgt Ion:202 Resp: 3860
Ion Ratio Lower Upper
202 100
200 20.9 16.8 25.2
203 17.6 14.5 21.7



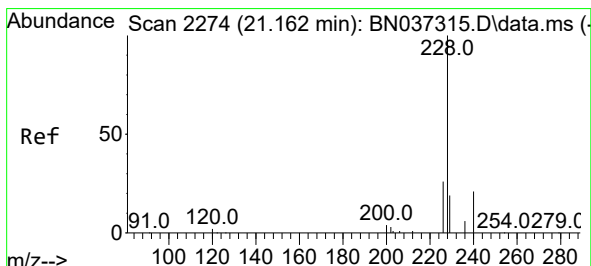
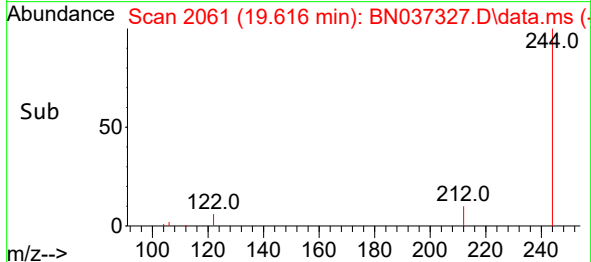
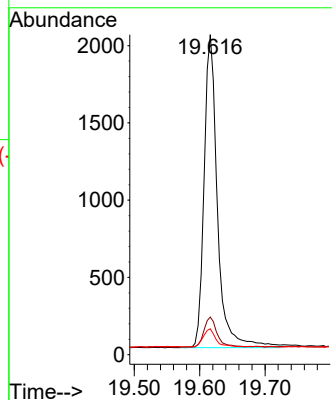


#31
Terphenyl-d14
Concen: 0.534 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

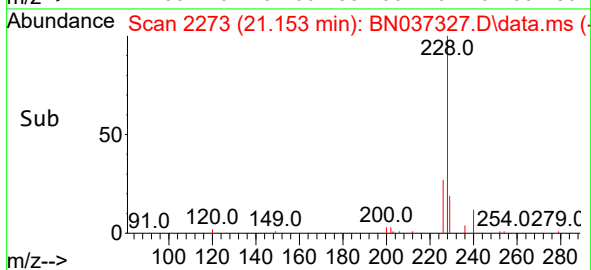
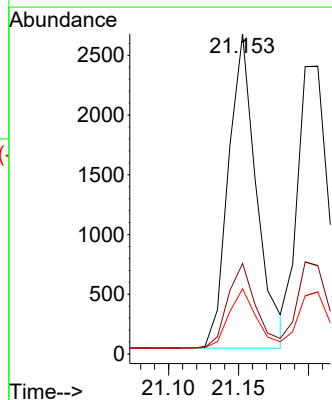
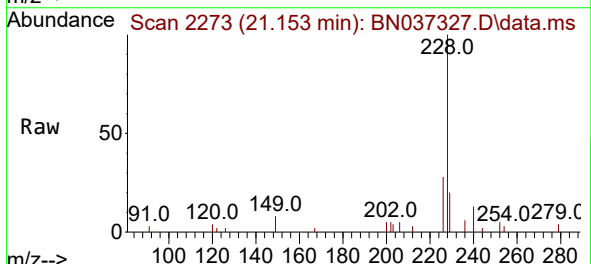


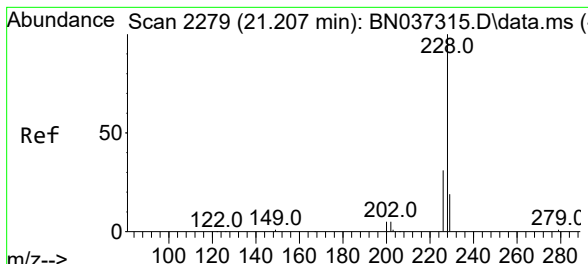
Tgt Ion:244 Resp: 2860
Ion Ratio Lower Upper
244 100
212 11.8 11.1 16.7
122 8.1 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.490 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.009 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:228 Resp: 3683
Ion Ratio Lower Upper
228 100
226 28.3 23.0 34.4
229 20.3 17.4 26.0

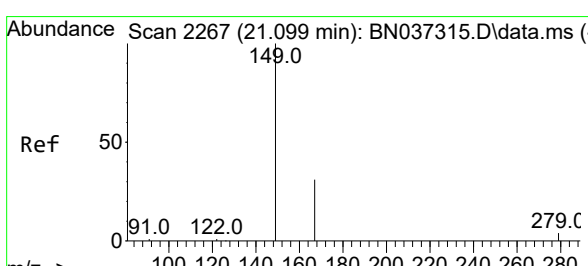
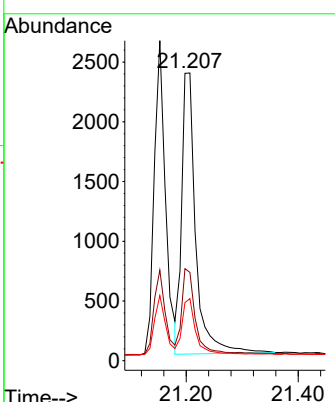
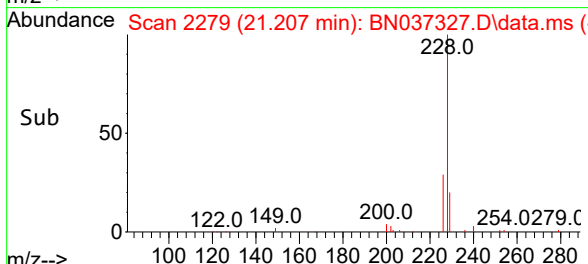
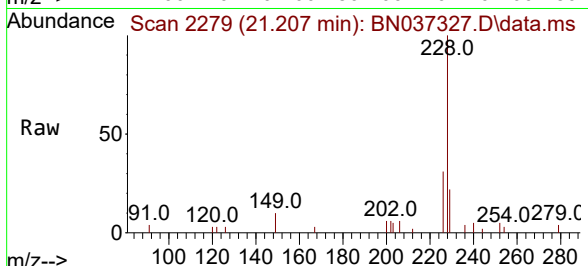




#33
 Chrysene
 Concen: 0.429 ng
 RT: 21.207 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

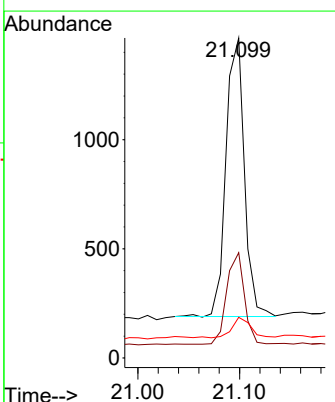
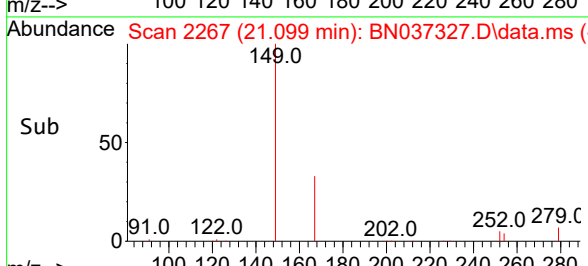
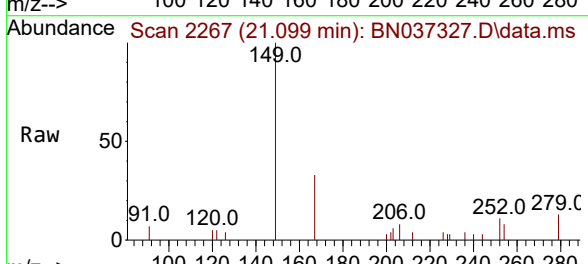
Instrument : BNA_N
 ClientSampleId : TT172S1-20250613MSD

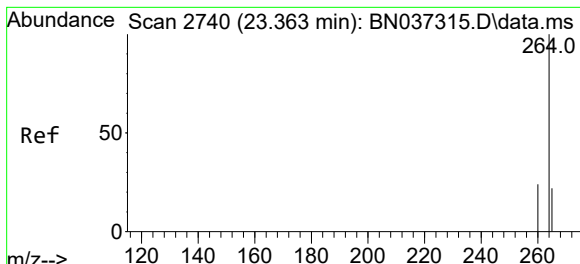
Tgt Ion:	228	Resp:	4114
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.4	38.2
229	21.6	17.3	25.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.520 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. -0.000 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

Tgt Ion:	149	Resp:	1600
Ion Ratio	Lower	Upper	
149	100		
167	31.5	24.6	37.0
279	7.3	6.5	9.7



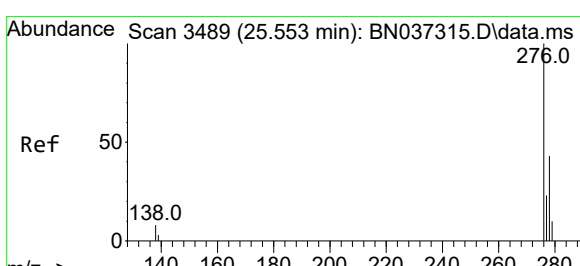
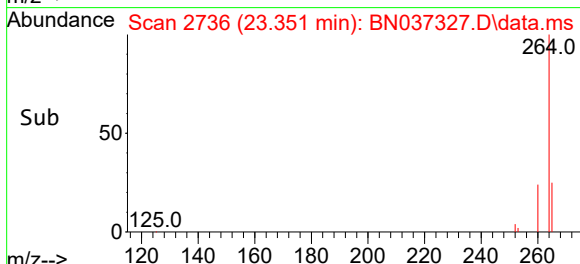
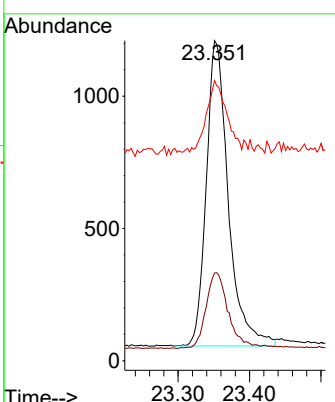
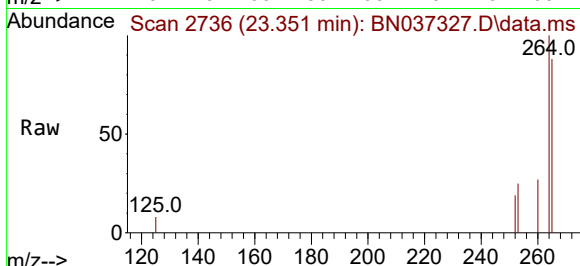


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.351 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

Instrument : BNA_N
 ClientSampleId : TT172S1-20250613MSD

Tgt Ion:264 Resp: 2470

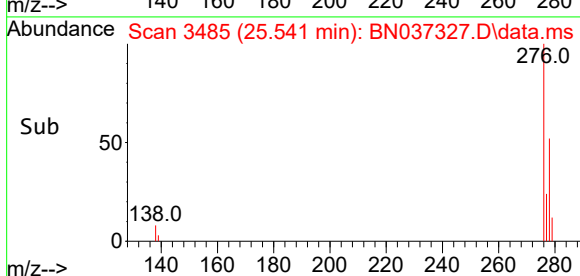
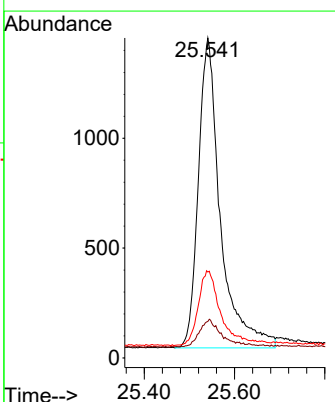
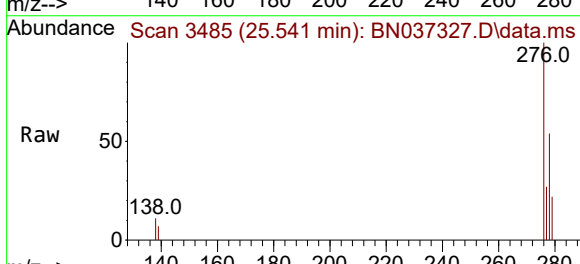
Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.4	32.2
265	87.5	71.4	107.0

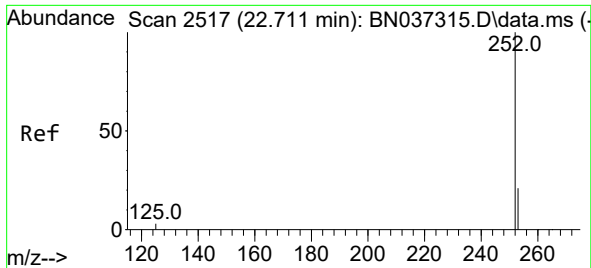


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.460 ng
 RT: 25.541 min Scan# 3485
 Delta R.T. -0.012 min
 Lab File: BN037327.D
 Acq: 18 Jun 2025 23:52

Tgt Ion:276 Resp: 4780

Ion	Ratio	Lower	Upper
276	100		
138	8.3	2.2	3.2#
277	24.0	17.1	25.7

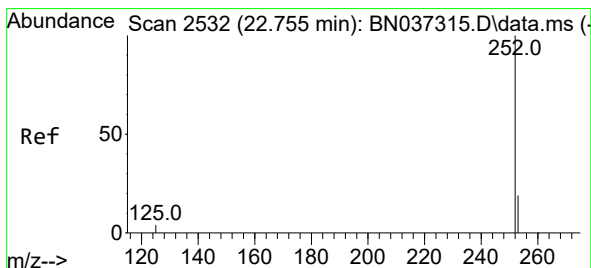
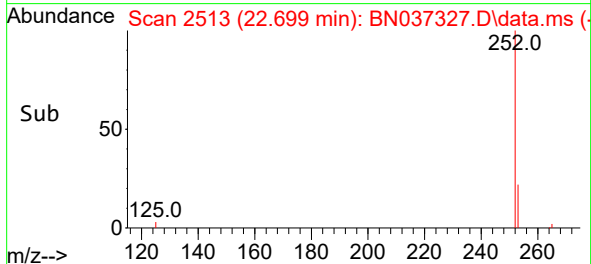
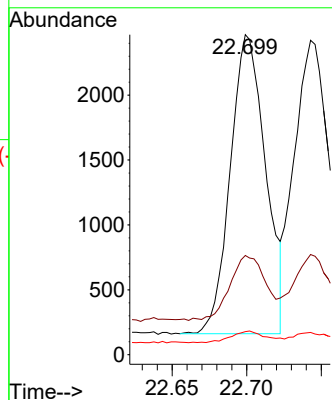
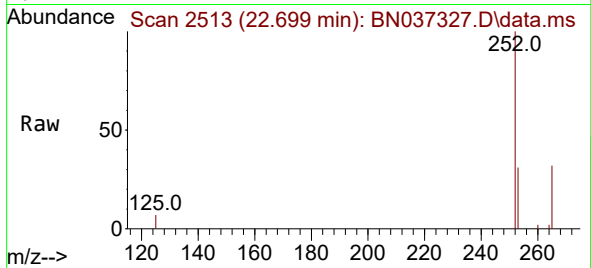




#37
Benzo(b)fluoranthene
Concen: 0.439 ng
RT: 22.699 min Scan# 2513
Delta R.T. -0.012 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

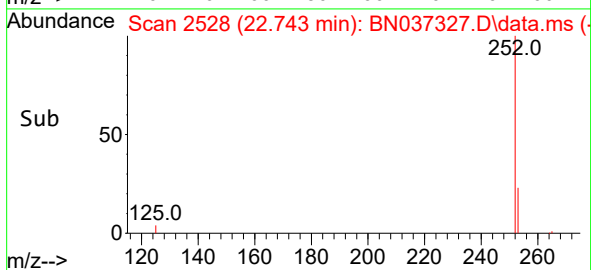
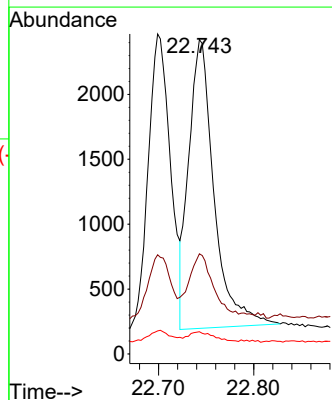
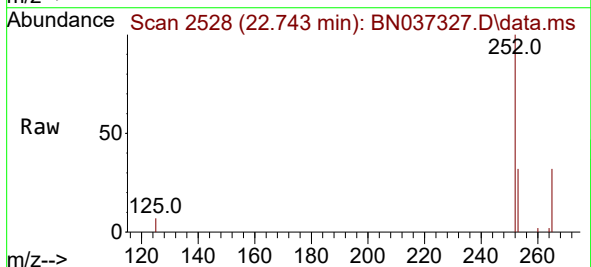
Instrument :
BNA_N
ClientSampleId :
TT172S1-20250613MSD

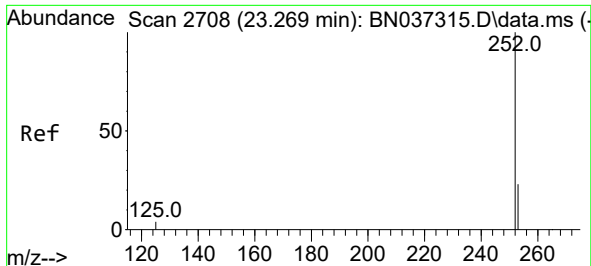
Tgt Ion:252 Resp: 3789
Ion Ratio Lower Upper
252 100
253 31.0 26.6 40.0
125 7.2 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.433 ng
RT: 22.743 min Scan# 2528
Delta R.T. -0.012 min
Lab File: BN037327.D
Acq: 18 Jun 2025 23:52

Tgt Ion:252 Resp: 4103
Ion Ratio Lower Upper
252 100
253 31.9 26.7 40.1
125 7.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.450 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037327.D

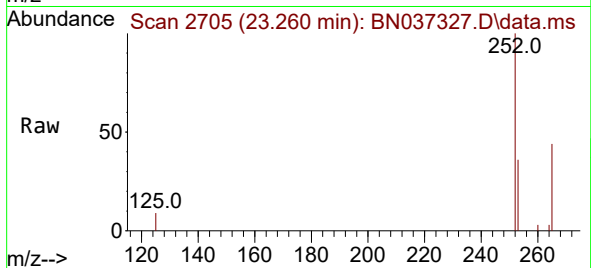
Acq: 18 Jun 2025 23:52

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD



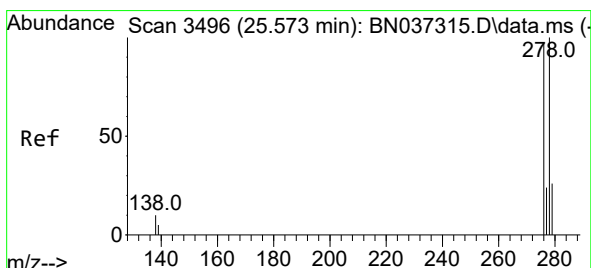
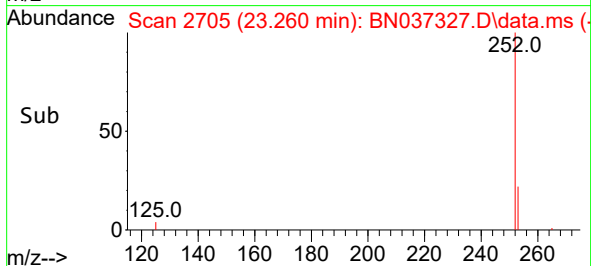
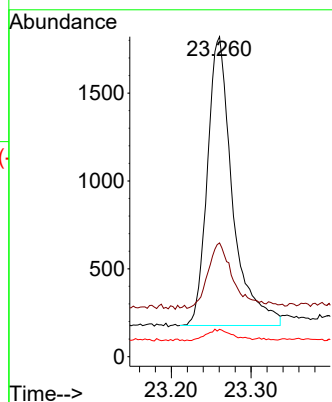
Tgt Ion:252 Resp: 3593

Ion Ratio Lower Upper

252 100

253 35.5 31.6 47.4

125 8.5 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

RT: 25.553 min Scan# 3489

Delta R.T. -0.020 min

Lab File: BN037327.D

Acq: 18 Jun 2025 23:52

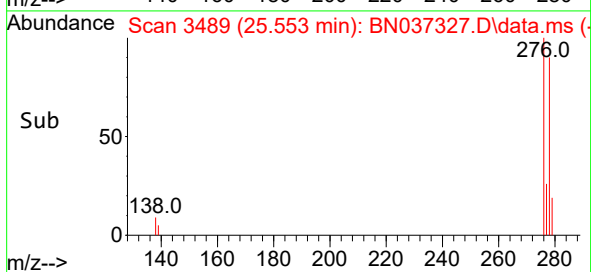
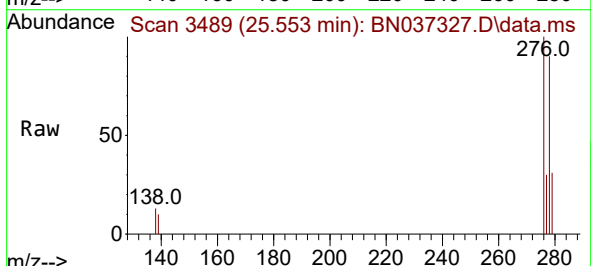
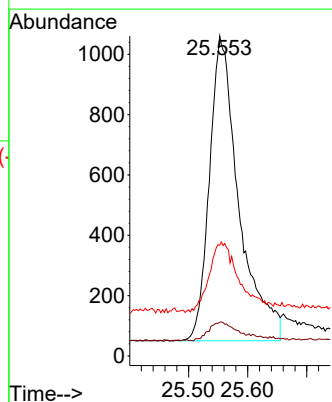
Tgt Ion:278 Resp: 3494

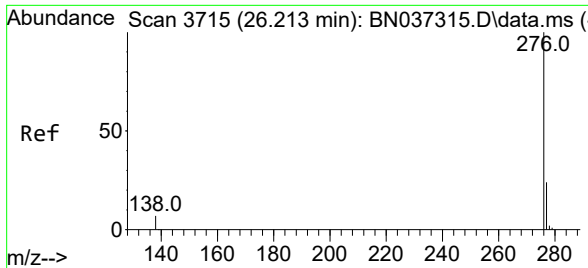
Ion Ratio Lower Upper

278 100

139 10.6 10.2 15.4

279 34.6 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.430 ng

RT: 26.205 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037327.D

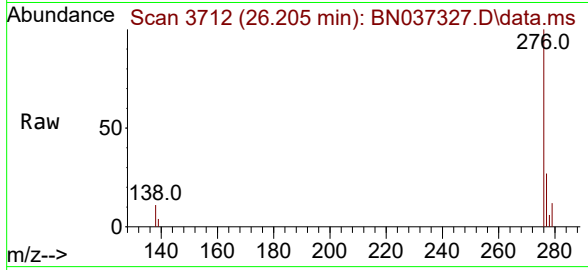
Acq: 18 Jun 2025 23:52

Instrument :

BNA_N

ClientSampleId :

TT172S1-20250613MSD



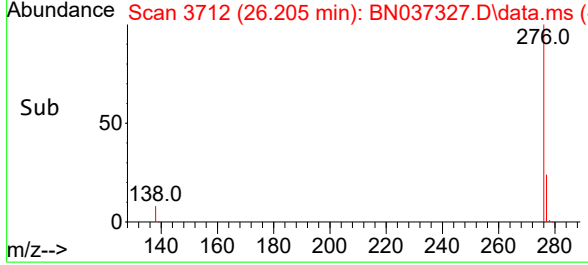
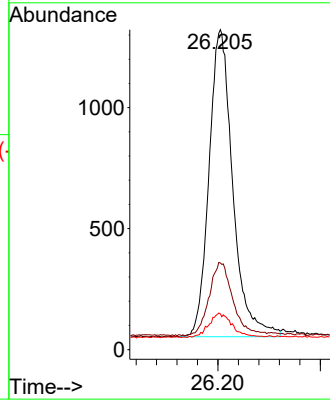
Tgt Ion:276 Resp: 4093

Ion Ratio Lower Upper

276 100

277 27.1 22.7 34.1

138 11.2 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037329.D
Acq On : 19 Jun 2025 01:04
Operator : RC/JU
Sample : Q2329-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

Quant Time: Jun 19 04:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration

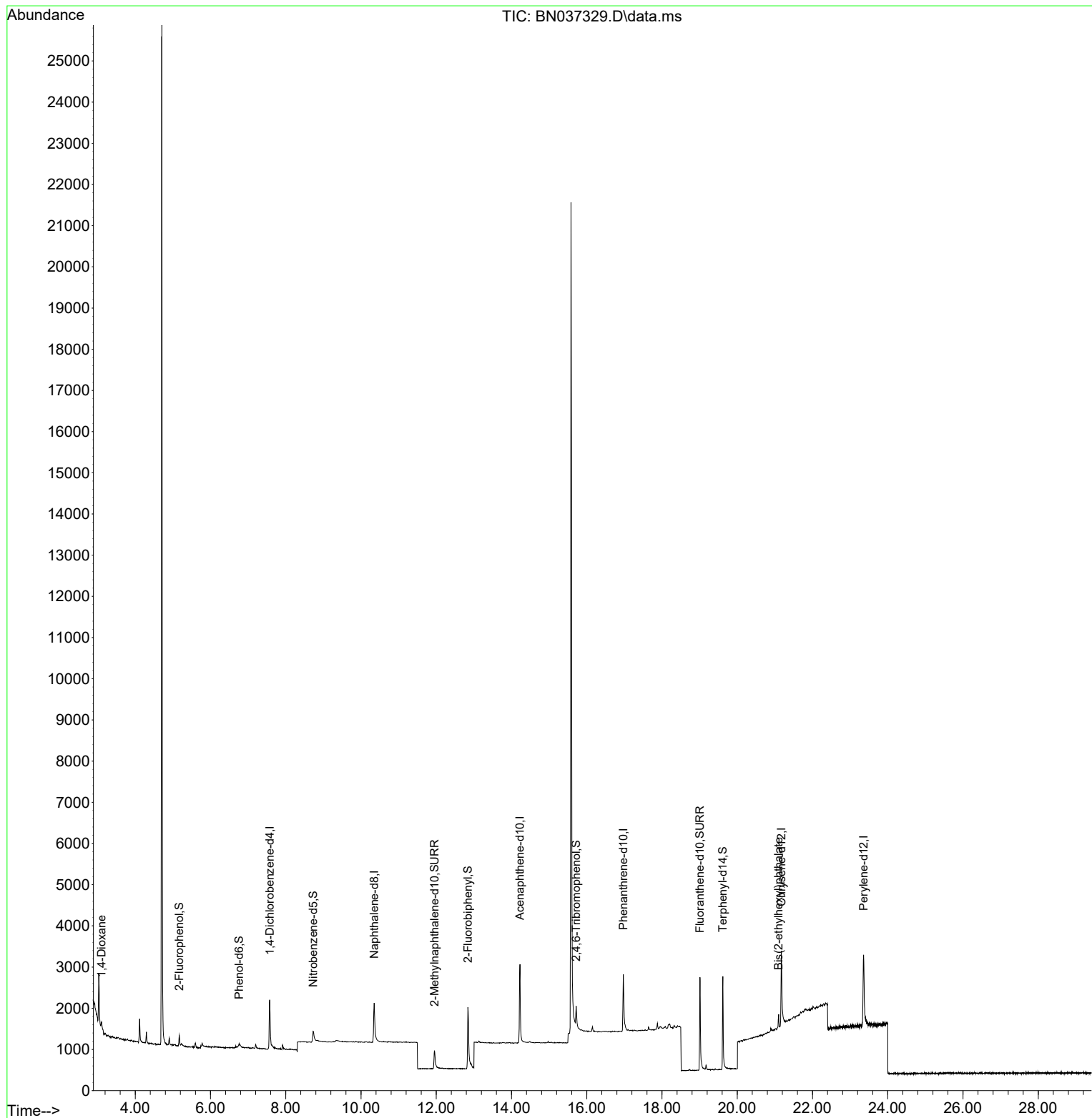
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.575	152	805	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	1809	0.400	ng	0.00
13) Acenaphthene-d10	14.224	164	1315	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	2637	0.400	ng	0.00
29) Chrysene-d12	21.171	240	2639	0.400	ng	0.00
35) Perylene-d12	23.357	264	2745	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	211	0.144	ng	0.00
5) Phenol-d6	6.759	99	125	0.087	ng	0.00
8) Nitrobenzene-d5	8.728	82	436	0.289	ng	0.00
11) 2-Methylnaphthalene-d10	11.950	152	1003	0.341	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	353	0.364	ng	0.00
15) 2-Fluorobiphenyl	12.843	172	1933	0.335	ng	0.00
27) Fluoranthene-d10	19.008	212	3456	0.413	ng	0.00
31) Terphenyl-d14	19.616	244	2888	0.477	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	179	0.249	ng	# 2
34) Bis(2-ethylhexyl)phtha...	21.099	149	311	0.089	ng	# 95

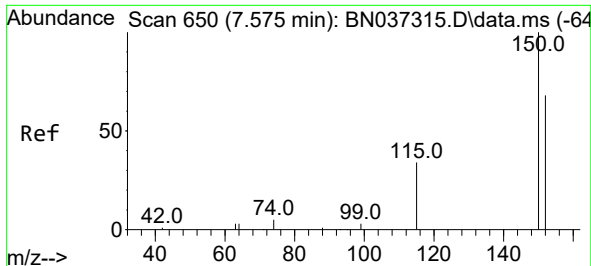
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037329.D
Acq On : 19 Jun 2025 01:04
Operator : RC/JU
Sample : Q2329-02
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

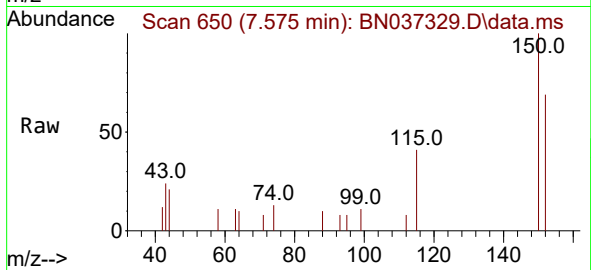
Quant Time: Jun 19 04:05:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration





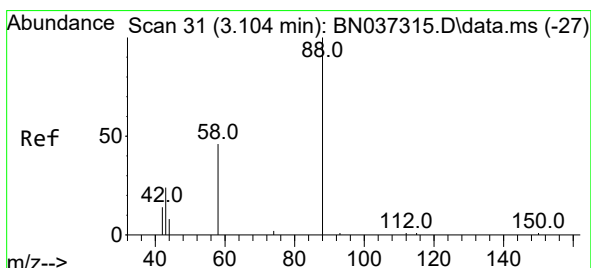
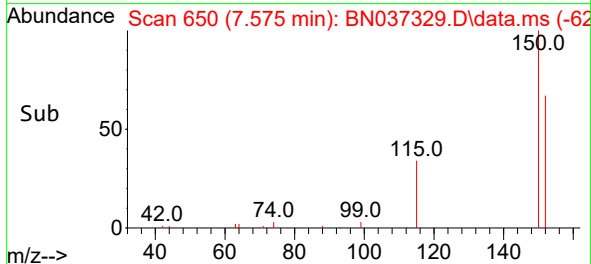
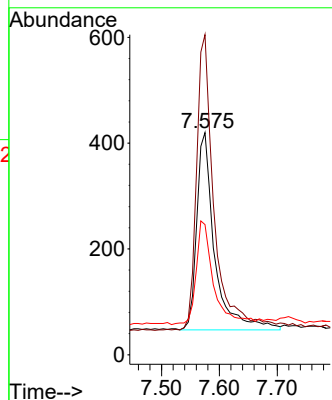
#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.575 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN037329.D
 Acq: 19 Jun 2025 01:04

Instrument :
 BNA_N
 ClientSampleId :
 TT188S1-20250612



Tgt Ion: 152 Resp: 805

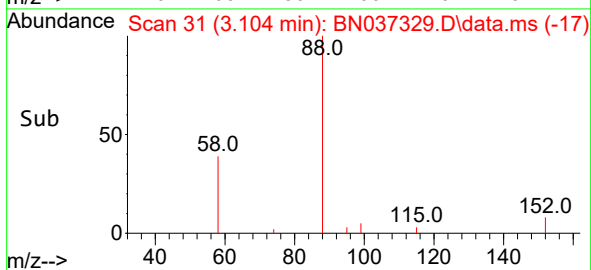
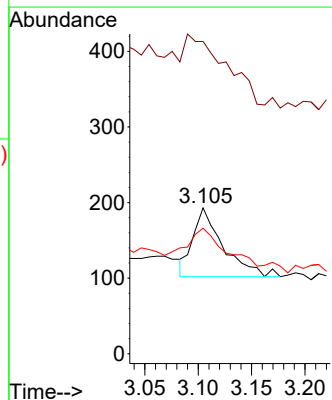
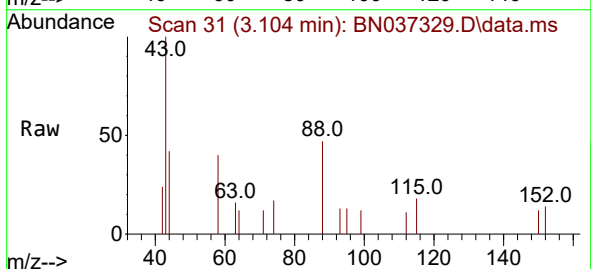
Ion	Ratio	Lower	Upper
152	100		
150	144.0	112.7	169.1
115	58.6	45.9	68.9

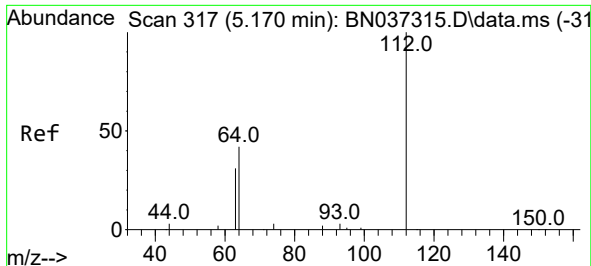


#2
 1,4-Dioxane
 Concen: 0.249 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037329.D
 Acq: 19 Jun 2025 01:04

Tgt Ion: 88 Resp: 179

Ion	Ratio	Lower	Upper
88	100		
43	135.2	21.0	31.6#
58	70.4	38.0	57.0#

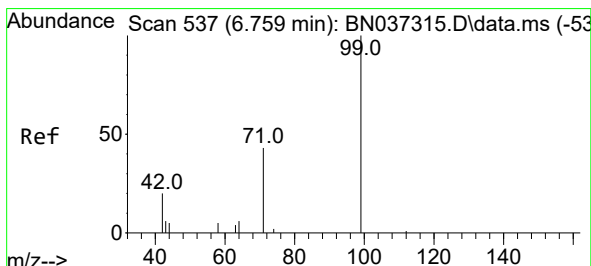
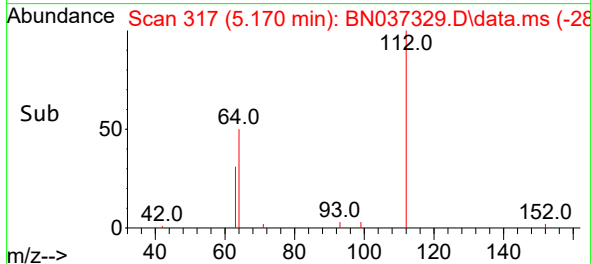
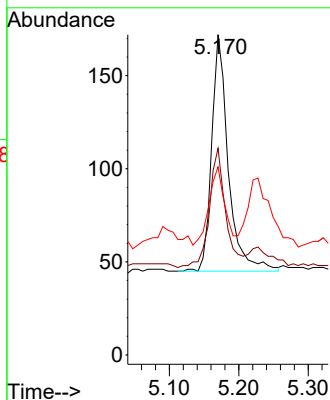
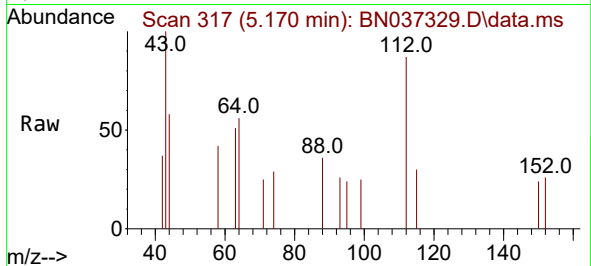




#4
2-Fluorophenol
Concen: 0.144 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

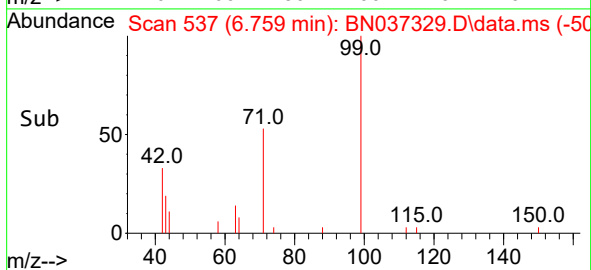
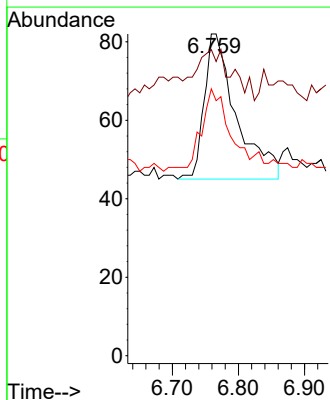
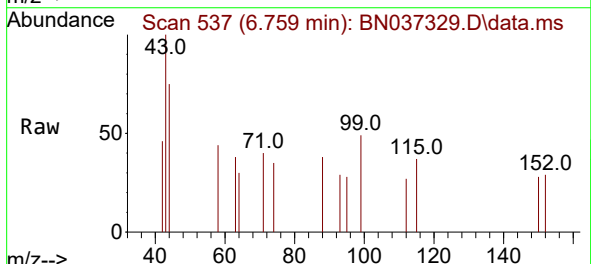
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

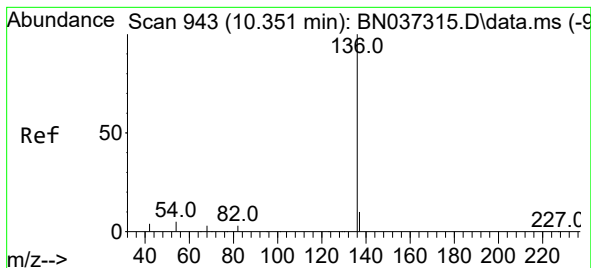
Tgt Ion:	112	Resp:	211
Ion Ratio	Lower	Upper	
112	100		
64	49.3	38.7	58.1
63	31.8	26.4	39.6



#5
Phenol-d6
Concen: 0.087 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

Tgt Ion:	99	Resp:	125
Ion Ratio	Lower	Upper	
99	100		
42	35.2	19.8	29.8#
71	49.6	42.6	64.0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 94

Delta R.T. 0.000 min

Lab File: BN037329.D

Acq: 19 Jun 2025 01:04

Instrument :

BNA_N

ClientSampleId :

TT188S1-20250612

Tgt Ion:136 Resp: 1809

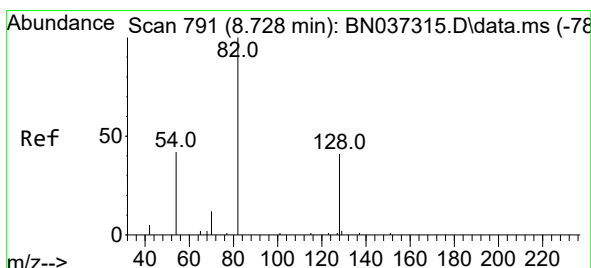
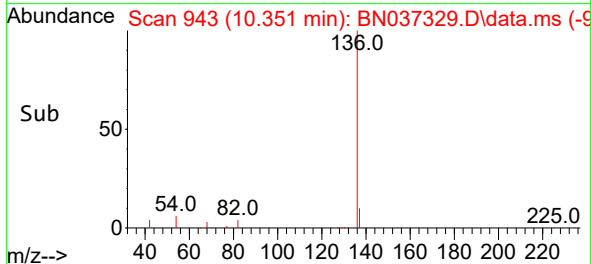
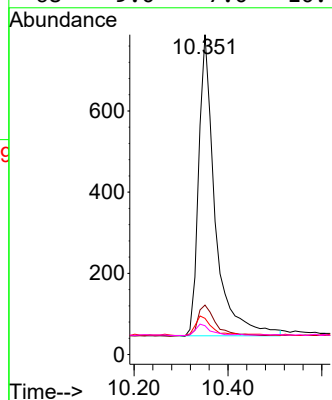
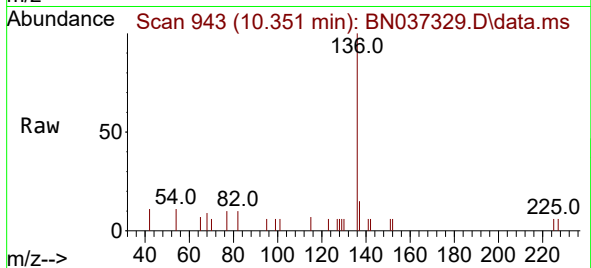
Ion Ratio Lower Upper

136 100

137 15.5 12.2 18.2

54 11.3 8.8 13.2

68 9.0 7.0 10.4



#8

Nitrobenzene-d5

Concen: 0.289 ng

RT: 8.728 min Scan# 791

Delta R.T. 0.000 min

Lab File: BN037329.D

Acq: 19 Jun 2025 01:04

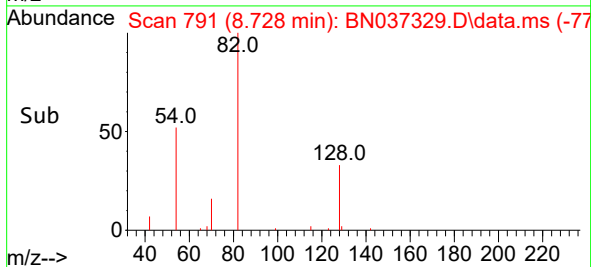
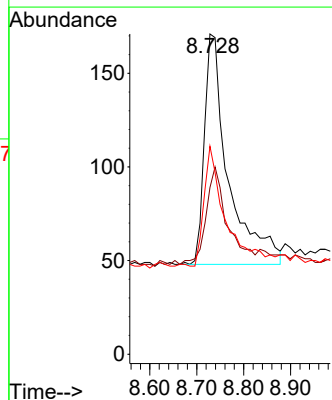
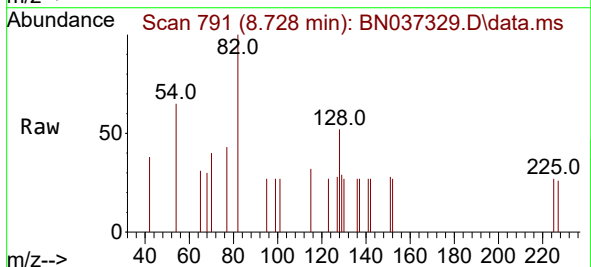
Tgt Ion: 82 Resp: 436

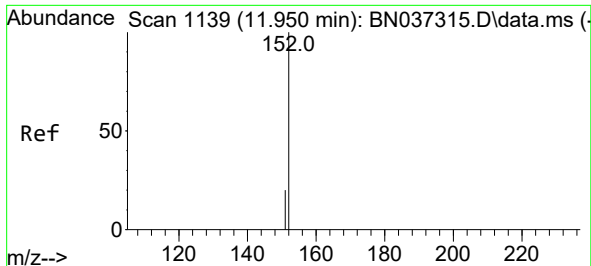
Ion Ratio Lower Upper

82 100

128 52.0 42.5 63.7

54 64.9 43.2 64.8#

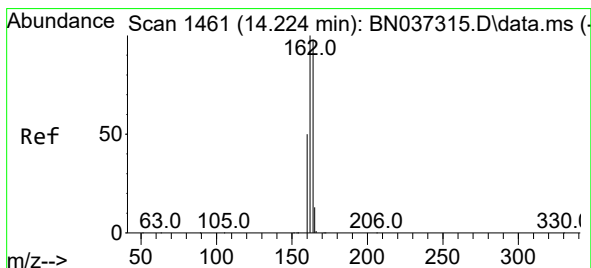
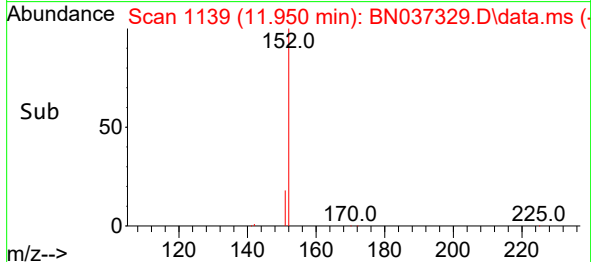
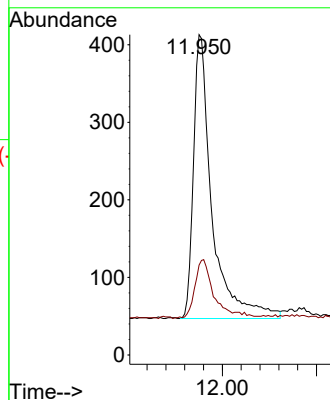
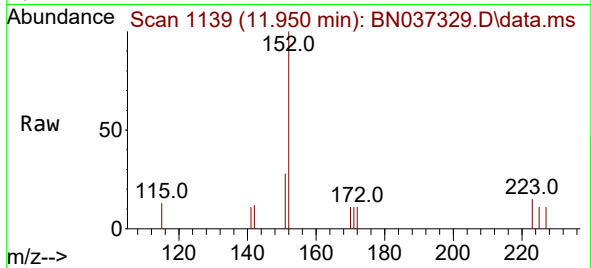




#11
2-Methylnaphthalene-d10
Concen: 0.341 ng
RT: 11.950 min Scan# 1139
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

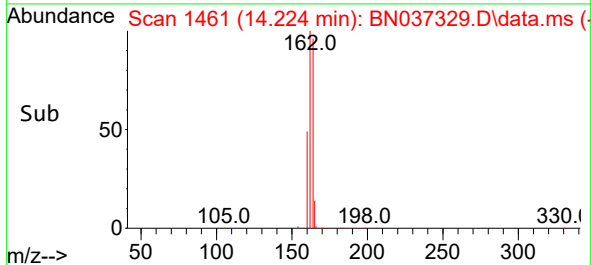
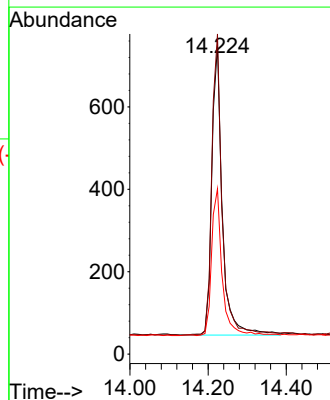
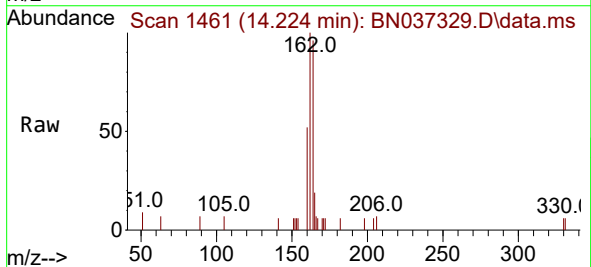
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

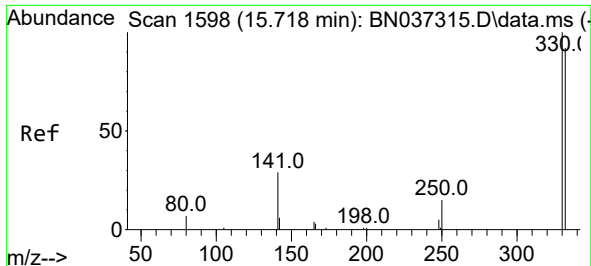
Tgt Ion:152 Resp: 1003
Ion Ratio Lower Upper
152 100
151 20.2 17.4 26.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

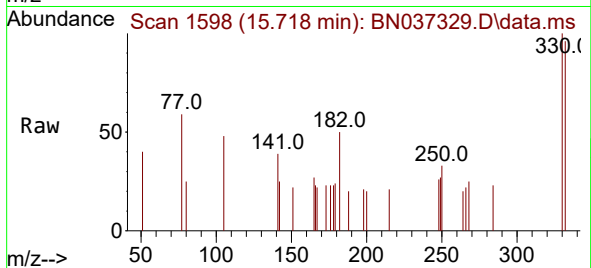
Tgt Ion:164 Resp: 1315
Ion Ratio Lower Upper
164 100
162 103.7 81.5 122.3
160 53.5 43.0 64.4



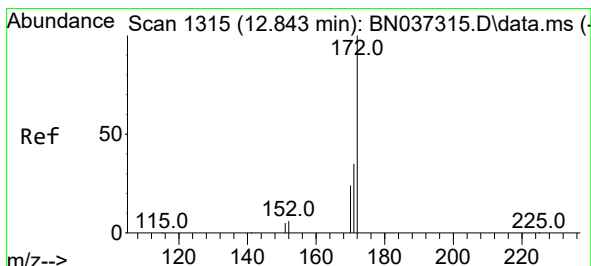
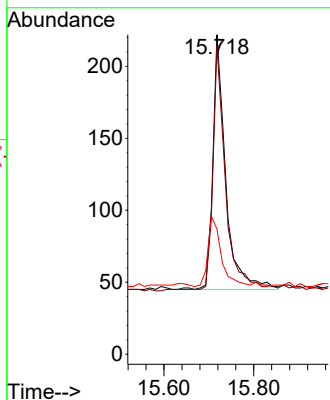
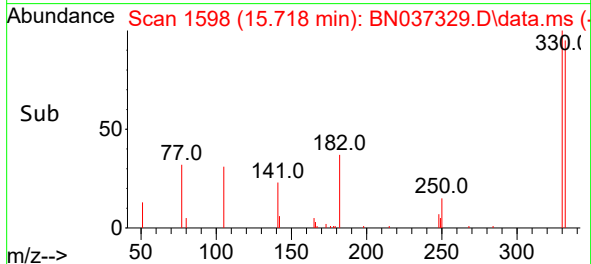


#14
2,4,6-Tribromophenol
Concen: 0.364 ng
RT: 15.718 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

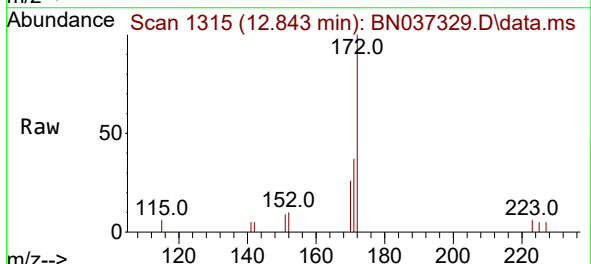
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612



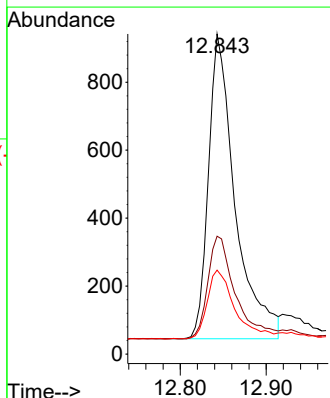
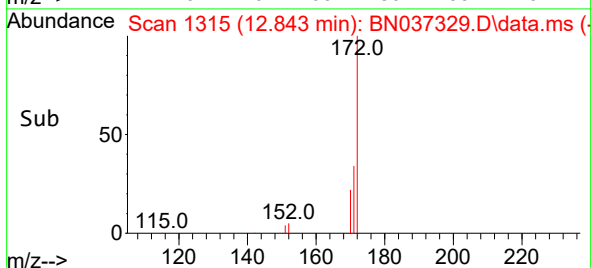
Tgt Ion:330 Resp: 353
Ion Ratio Lower Upper
330 100
332 91.5 78.4 117.6
141 29.2 24.4 36.6

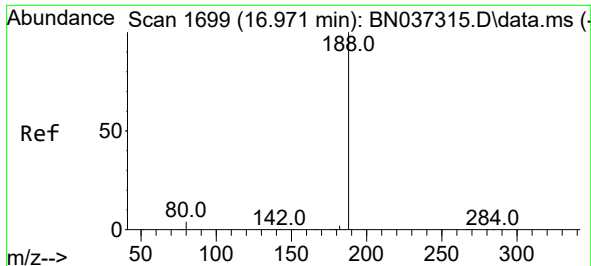


#15
2-Fluorobiphenyl
Concen: 0.335 ng
RT: 12.843 min Scan# 1315
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04



Tgt Ion:172 Resp: 1933
Ion Ratio Lower Upper
172 100
171 36.8 30.8 46.2
170 26.2 21.9 32.9

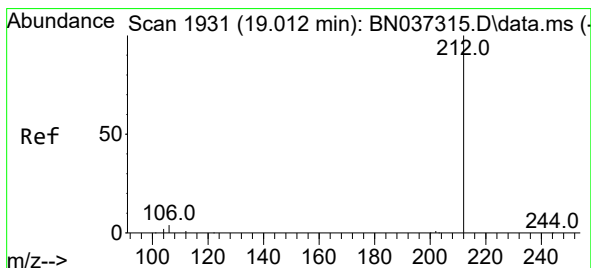
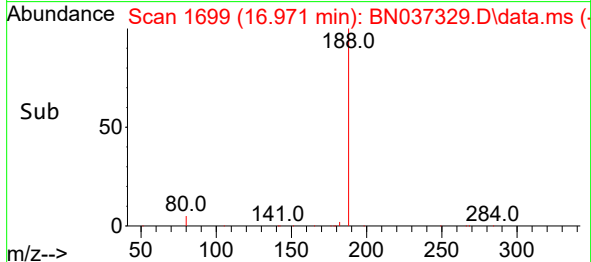
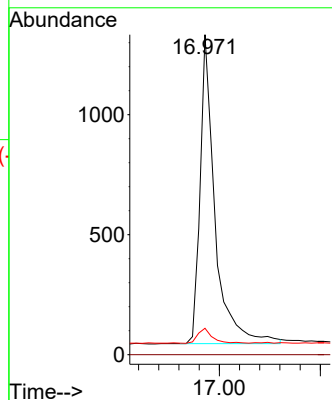
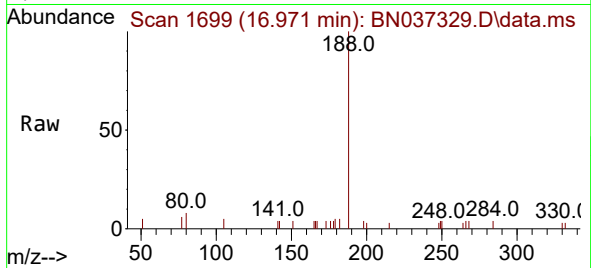




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

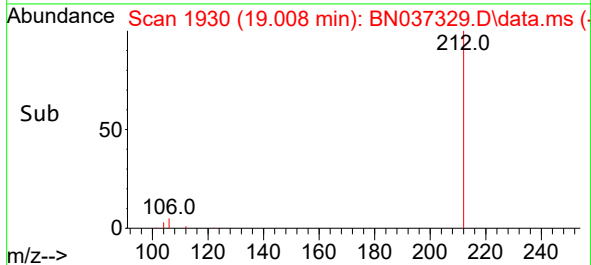
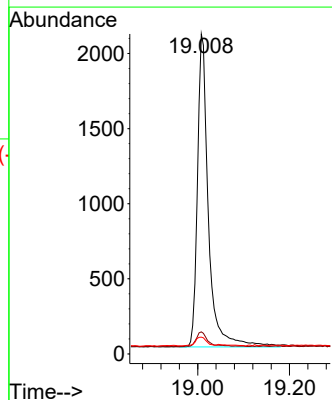
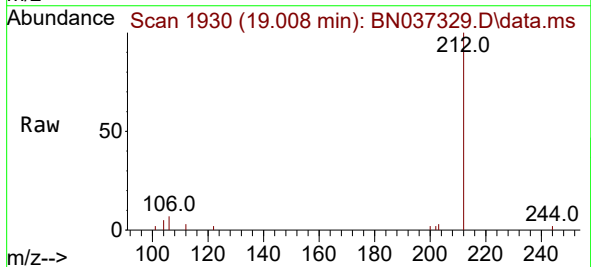
Instrument :
BNA_N
ClientSampleId :
TT188S1-20250612

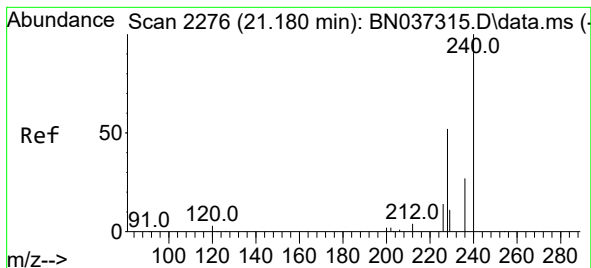
Tgt Ion:188 Resp: 2637
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 8.3 6.2 9.2



#27
Fluoranthene-d10
Concen: 0.413 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037329.D
Acq: 19 Jun 2025 01:04

Tgt Ion:212 Resp: 3456
Ion Ratio Lower Upper
212 100
106 5.0 3.0 4.4#
104 2.8 2.0 3.0





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037329.D

Acq: 19 Jun 2025 01:04

Instrument :

BNA_N

ClientSampleId :

TT188S1-20250612

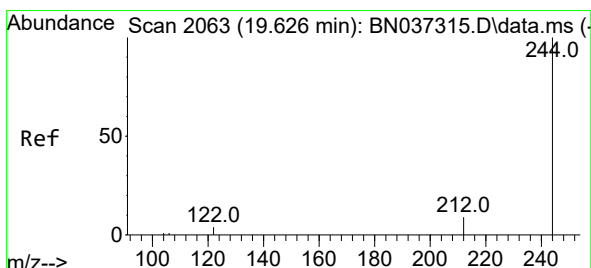
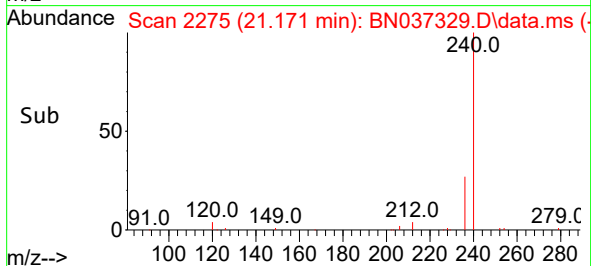
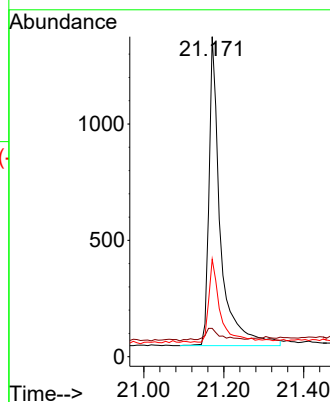
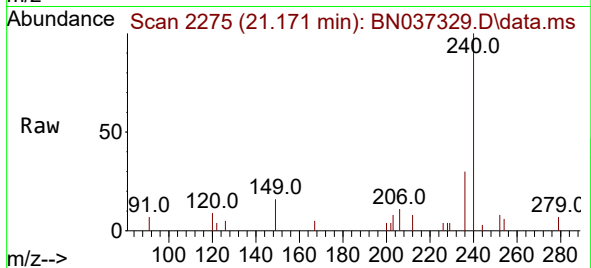
Tgt Ion:240 Resp: 2639

Ion Ratio Lower Upper

240 100

120 8.9 7.5 11.3

236 30.5 24.9 37.3



#31

Terphenyl-d14

Concen: 0.477 ng

RT: 19.616 min Scan# 2061

Delta R.T. -0.009 min

Lab File: BN037329.D

Acq: 19 Jun 2025 01:04

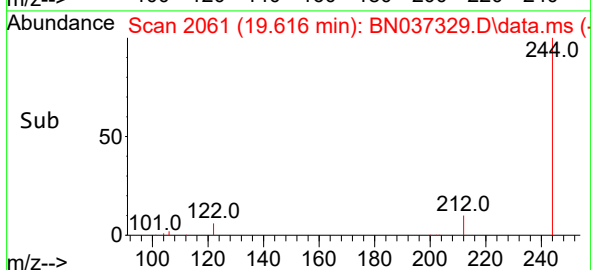
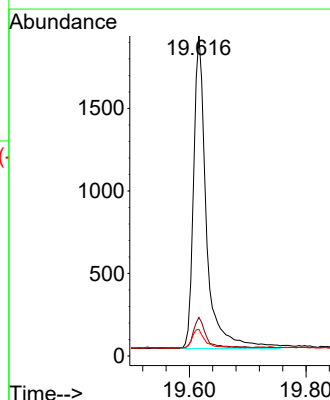
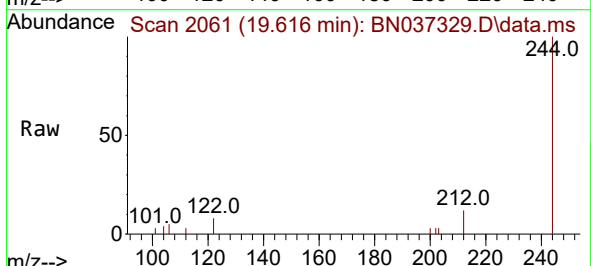
Tgt Ion:244 Resp: 2888

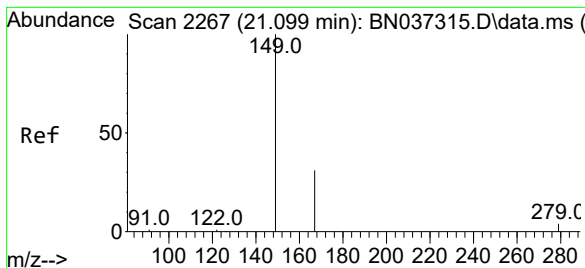
Ion Ratio Lower Upper

244 100

212 12.1 11.1 16.7

122 8.3 7.2 10.8

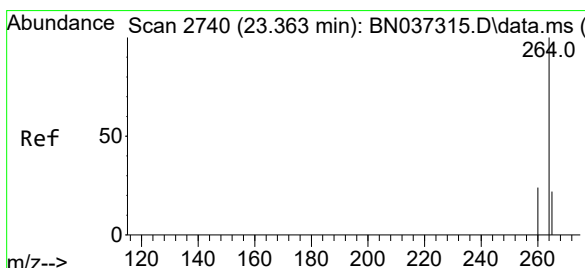
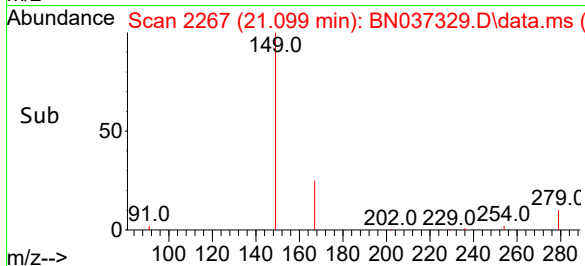
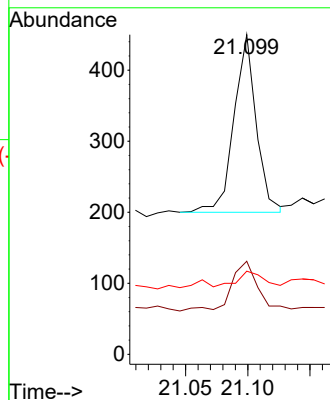
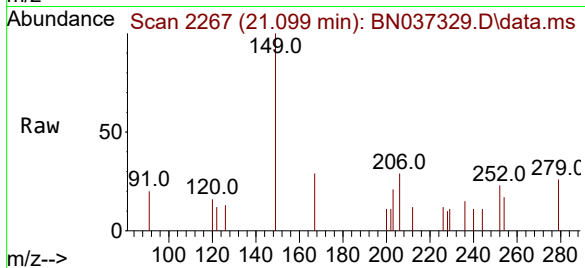




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.089 ng
 RT: 21.099 min Scan# 211
 Delta R.T. 0.000 min
 Lab File: BN037329.D
 Acq: 19 Jun 2025 01:04

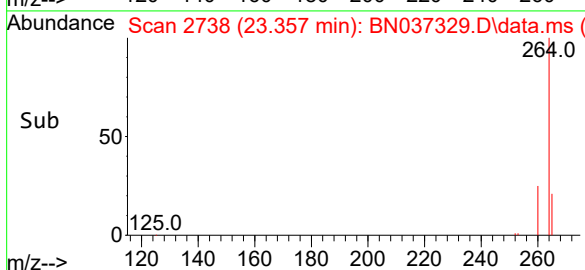
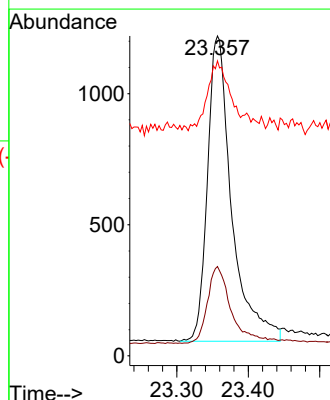
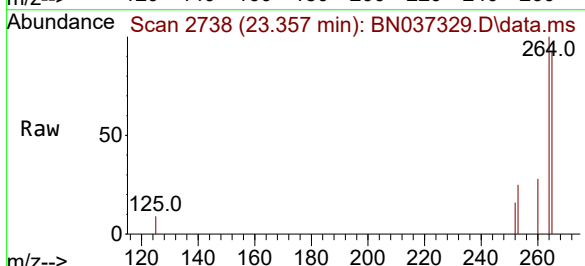
Instrument :
 BNA_N
 ClientSampleId :
 TT188S1-20250612

Tgt Ion:149 Resp: 311
 Ion Ratio Lower Upper
 149 100
 167 33.4 24.6 37.0
 279 10.0 6.5 9.7#



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.357 min Scan# 2738
 Delta R.T. -0.006 min
 Lab File: BN037329.D
 Acq: 19 Jun 2025 01:04

Tgt Ion:264 Resp: 2745
 Ion Ratio Lower Upper
 264 100
 260 28.0 21.4 32.2
 265 92.2 71.4 107.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
 Data File : BN037337.D
 Acq On : 19 Jun 2025 05:54
 Operator : RC/JU
 Sample : PB168508BS
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168508BS

Quant Time: Jun 19 06:28:28 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 18 18:40:16 2025
 Response via : Initial Calibration

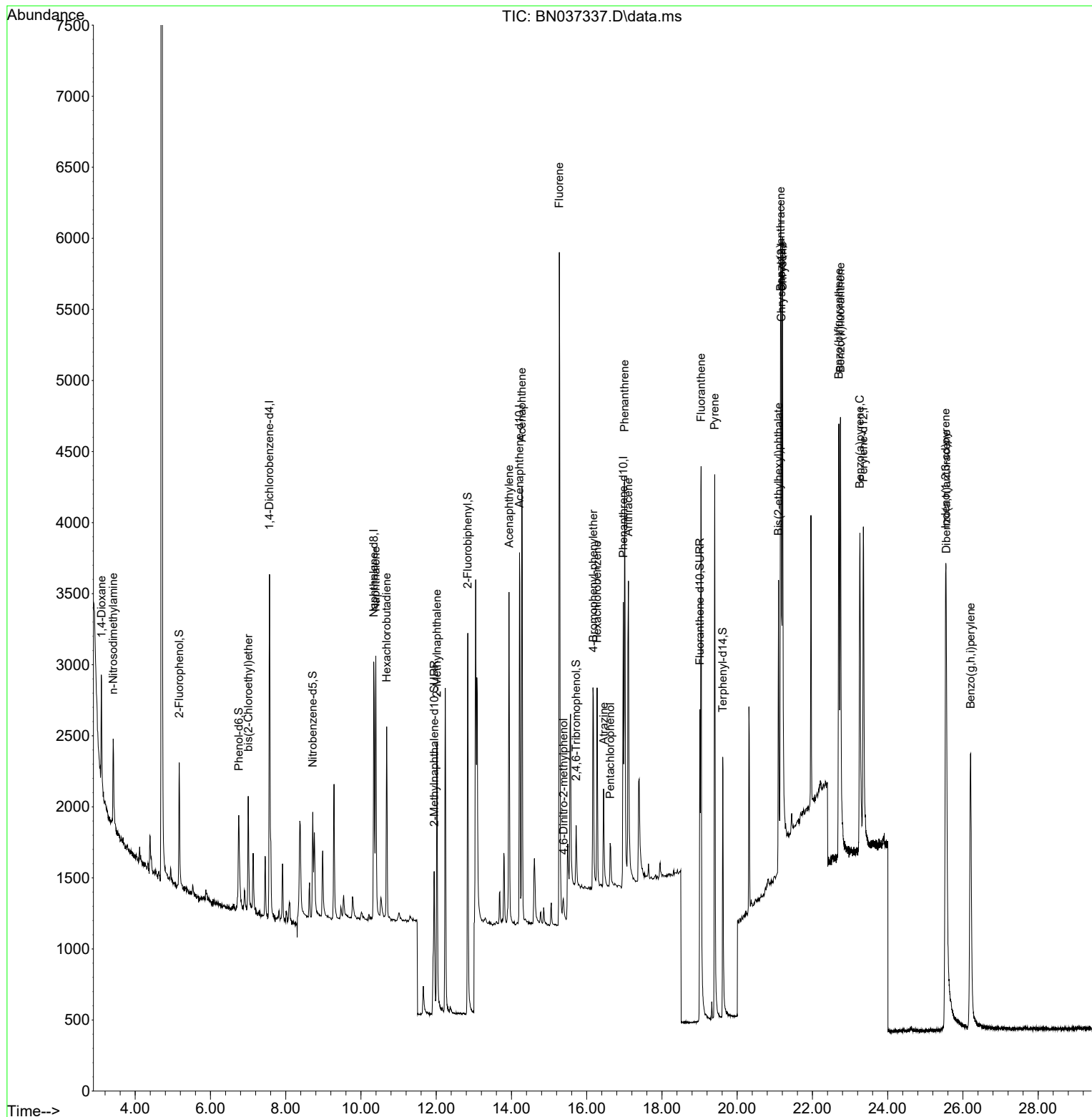
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1288	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	2690	0.400	ng	#-0.01
13) Acenaphthene-d10	14.213	164	1686	0.400	ng	-0.01
19) Phenanthrene-d10	16.971	188	3212	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3029	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	3232	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	825	0.352	ng	0.00
5) Phenol-d6	6.752	99	802	0.348	ng	0.00
8) Nitrobenzene-d5	8.717	82	760	0.339	ng	-0.01
11) 2-Methylnaphthalene-d10	11.945	152	2266	0.518	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	329	0.265	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	2716	0.368	ng	0.00
27) Fluoranthene-d10	19.008	212	3351	0.329	ng	0.00
31) Terphenyl-d14	19.616	244	2523	0.363	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	501	0.436	ng	# 44
3) n-Nitrosodimethylamine	3.415	42	455	0.341	ng	90
6) bis(2-Chloroethyl)ether	7.004	93	760	0.386	ng	100
9) Naphthalene	10.394	128	2428	0.349	ng	# 92
10) Hexachlorobutadiene	10.682	225	1119	0.318	ng	# 99
12) 2-Methylnaphthalene	12.021	142	1521	0.310	ng	96
16) Acenaphthylene	13.935	152	2681	0.378	ng	98
17) Acenaphthene	14.277	154	1575	0.334	ng	99
18) Fluorene	15.271	166	2259	0.338	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	302	0.306	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	914	0.343	ng	96
22) Hexachlorobenzene	16.276	284	1066	0.382	ng	93
23) Atrazine	16.450	200	743	0.357	ng	# 89
24) Pentachlorophenol	16.624	266	250	0.162	ng	94
25) Phenanthrene	17.009	178	3326	0.368	ng	99
26) Anthracene	17.108	178	3130	0.369	ng	100
28) Fluoranthene	19.040	202	4162	0.331	ng	99
30) Pyrene	19.402	202	4189	0.363	ng	99
32) Benzo(a)anthracene	21.153	228	3675	0.377	ng	99
33) Chrysene	21.206	228	4517	0.363	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1537	0.384	ng	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	5500	0.405	ng	# 93
37) Benzo(b)fluoranthene	22.702	252	4039	0.358	ng	98
38) Benzo(k)fluoranthene	22.746	252	4639	0.374	ng	96
39) Benzo(a)pyrene	23.260	252	4040	0.386	ng	96
40) Dibenzo(a,h)anthracene	25.555	278	4089	0.375	ng	# 88
41) Benzo(g,h,i)perylene	26.204	276	4647	0.373	ng	97

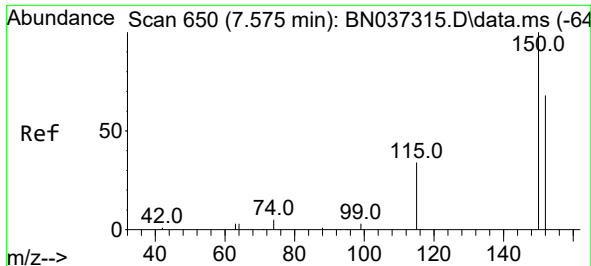
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN061925\
Data File : BN037337.D
Acq On : 19 Jun 2025 05:54
Operator : RC/JU
Sample : PB168508BS
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168508BS

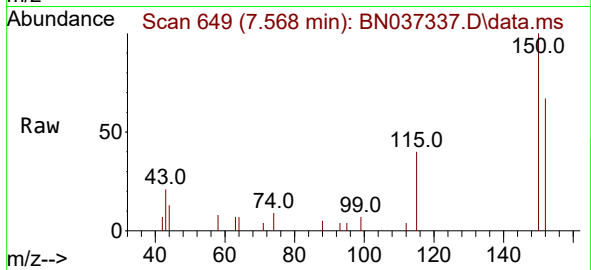
Quant Time: Jun 19 06:28:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 18 18:40:16 2025
Response via : Initial Calibration



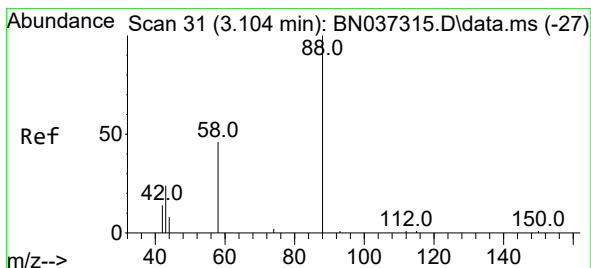
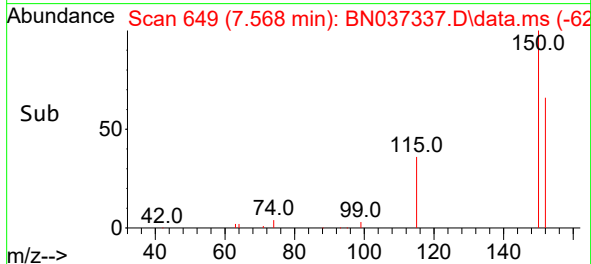
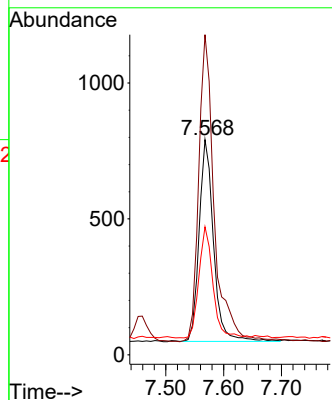


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Instrument :
BNA_N
ClientSampleId :
PB168508BS

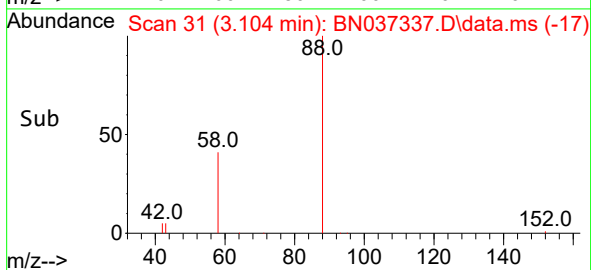
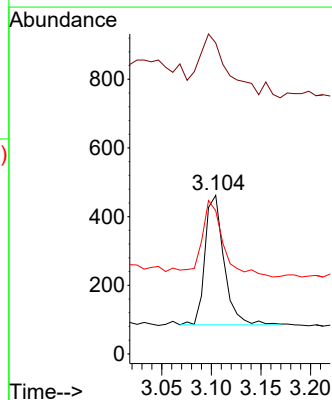
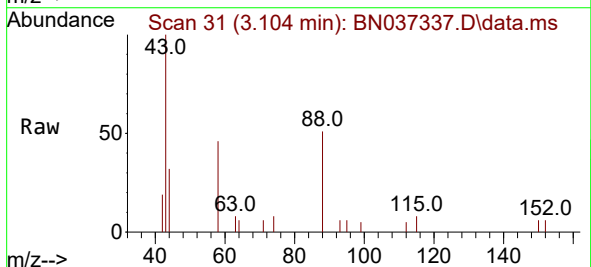


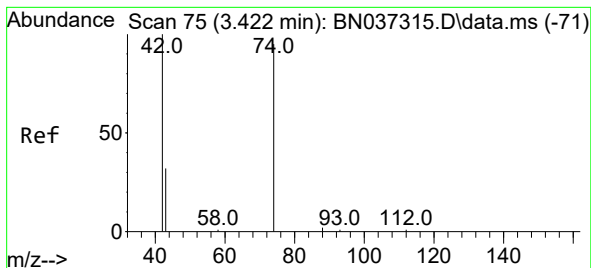
Tgt Ion:152 Resp: 1288
Ion Ratio Lower Upper
152 100
150 148.7 112.7 169.1
115 59.5 45.9 68.9



#2
1,4-Dioxane
Concen: 0.436 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion: 88 Resp: 501
Ion Ratio Lower Upper
88 100
43 79.6 21.0 31.6#
58 67.5 38.0 57.0#





#3

n-Nitrosodimethylamine

Concen: 0.341 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

ClientSampleId :

PB168508BS

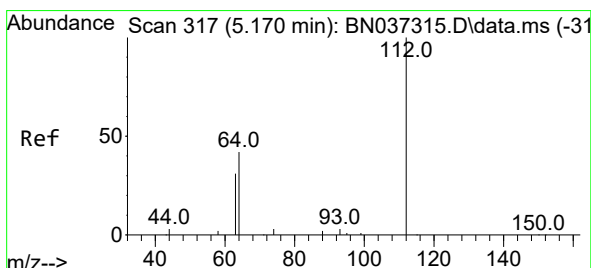
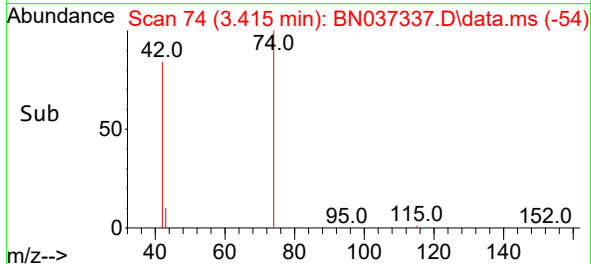
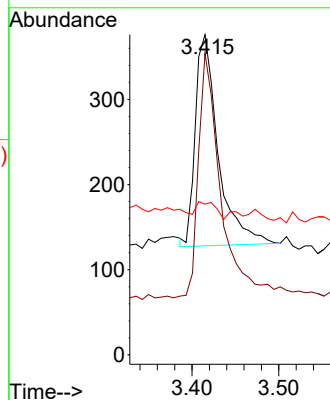
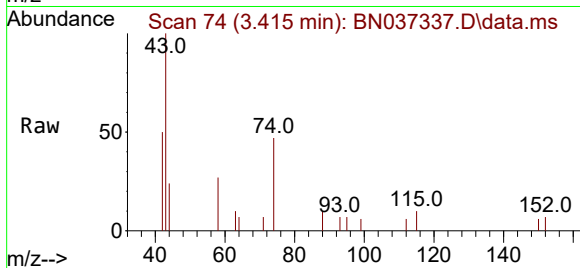
Tgt Ion: 42 Resp: 455

Ion Ratio Lower Upper

42 100

74 116.5 84.3 126.5

44 6.8 5.0 7.4



#4

2-Fluorophenol

Concen: 0.352 ng

RT: 5.170 min Scan# 317

Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

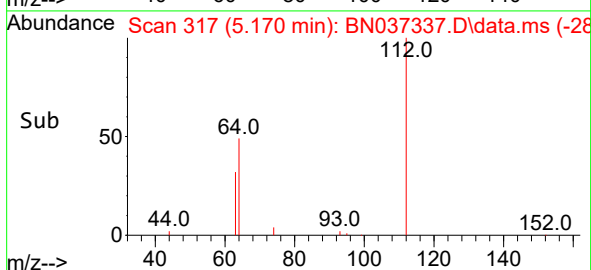
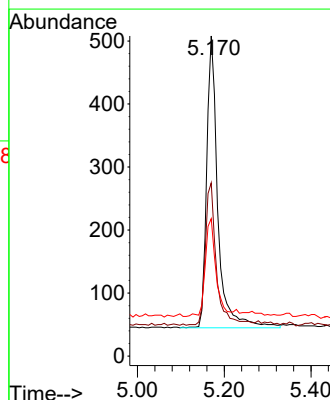
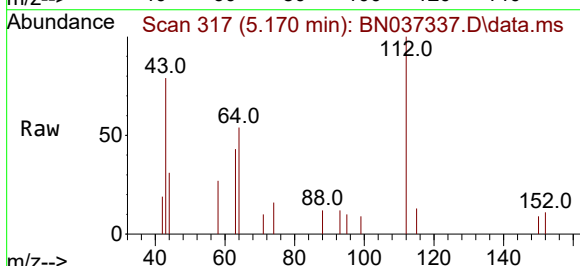
Tgt Ion: 112 Resp: 825

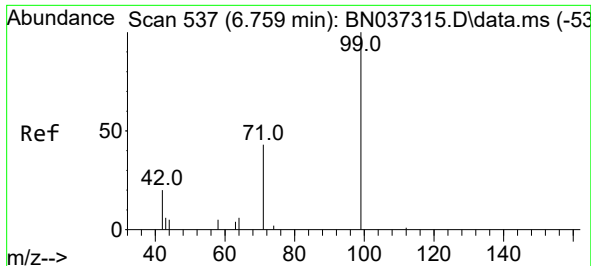
Ion Ratio Lower Upper

112 100

64 47.0 38.7 58.1

63 31.8 26.4 39.6

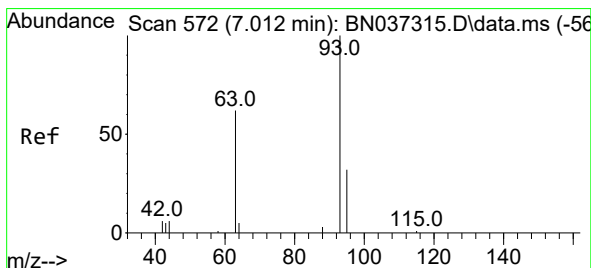
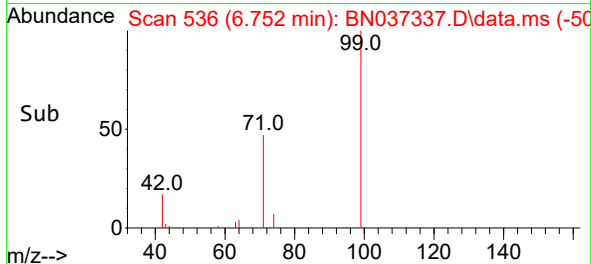
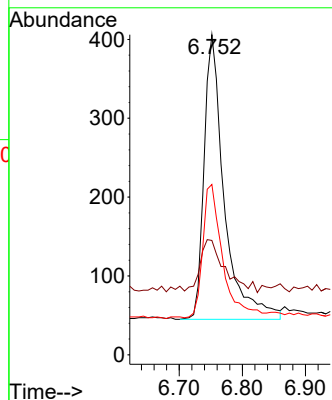
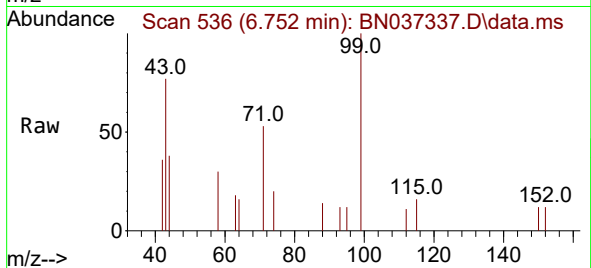




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

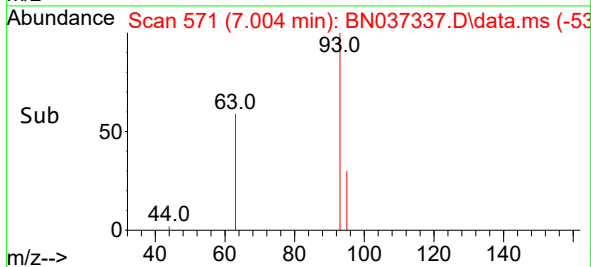
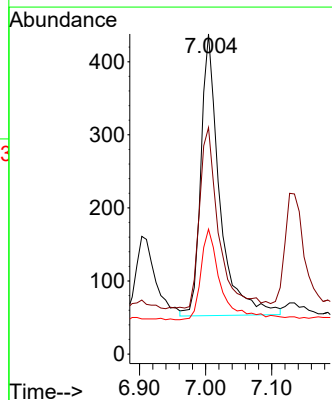
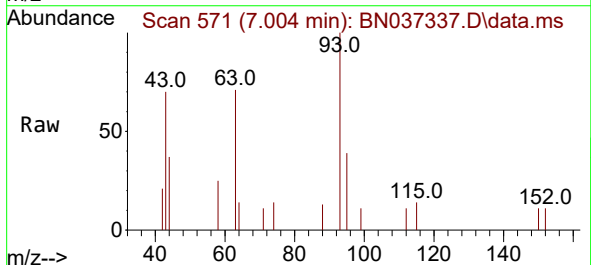
Instrument :
BNA_N
ClientSampleId :
PB168508BS

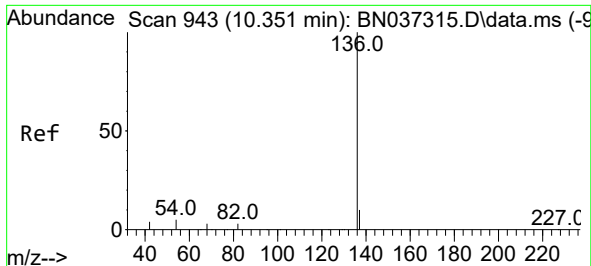
Tgt Ion:	99	Resp:	802
Ion	Ratio	Lower	Upper
99	100		
42	22.7	19.8	29.8
71	46.0	42.6	64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.007 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:	93	Resp:	760
Ion	Ratio	Lower	Upper
93	100		
63	67.0	53.2	79.8
95	34.1	27.3	40.9

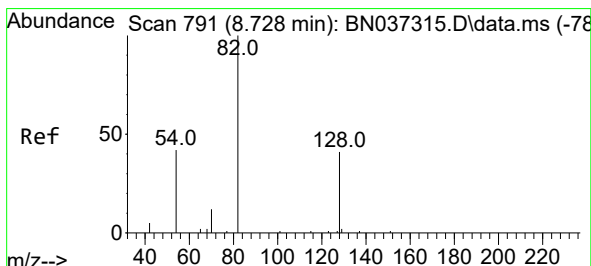
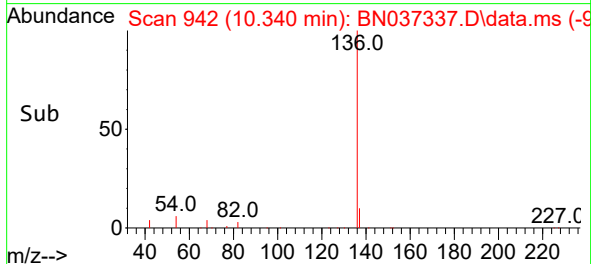
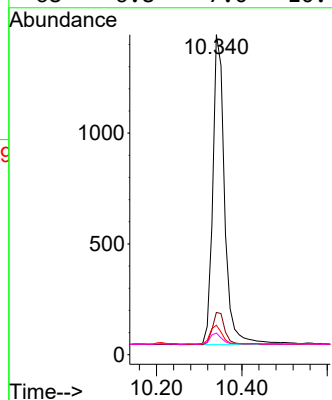
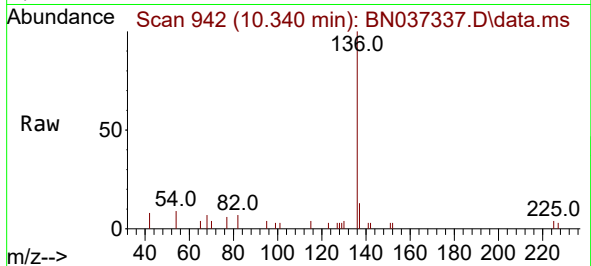




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

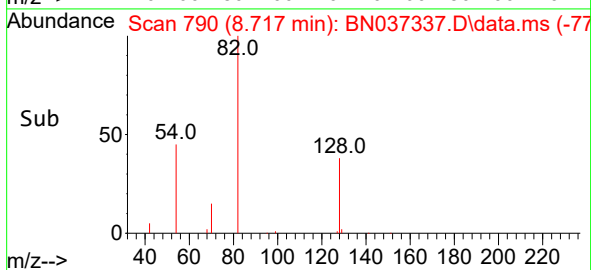
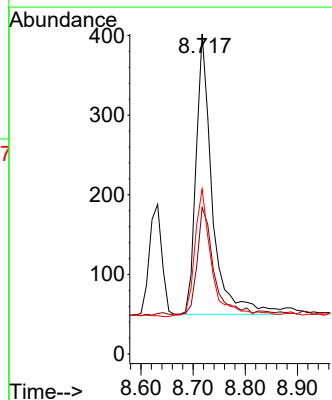
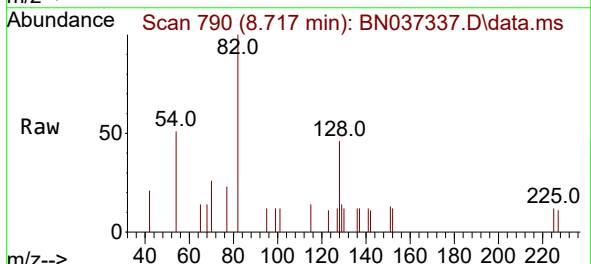
Instrument :
BNA_N
ClientSampleId :
PB168508BS

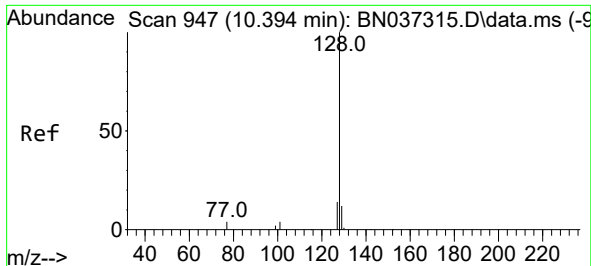
Tgt Ion:	136	Resp:	2690
Ion Ratio	Lower	Upper	
136	100		
137	13.2	12.2	18.2
54	9.2	8.8	13.2
68	6.8	7.0	10.4



#8
Nitrobenzene-d5
Concen: 0.339 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:	82	Resp:	760
Ion Ratio	Lower	Upper	
82	100		
128	45.8	42.5	63.7
54	51.5	43.2	64.8

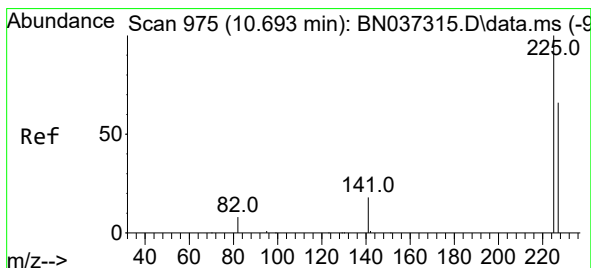
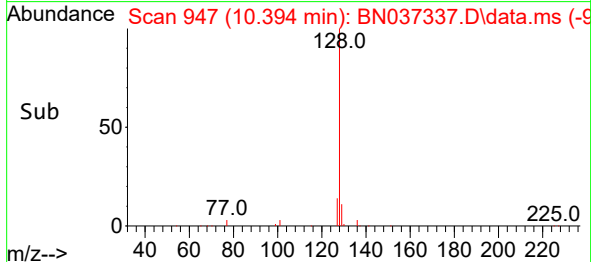
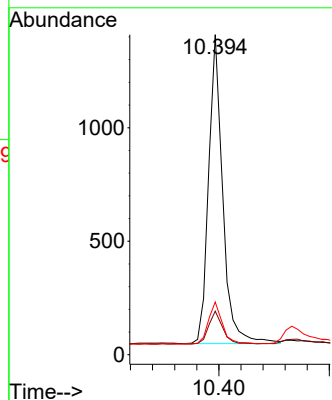
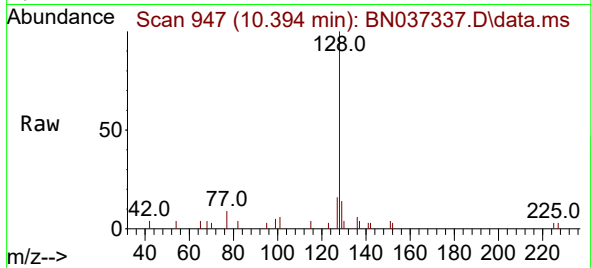




#9
Naphthalene
Concen: 0.349 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

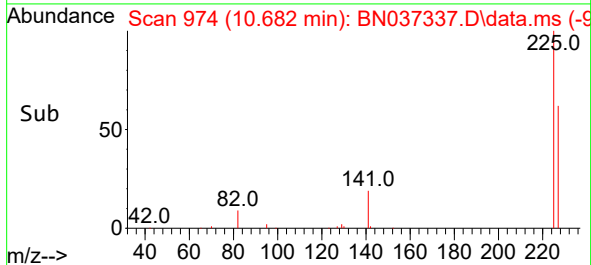
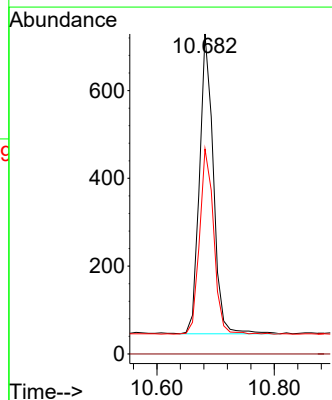
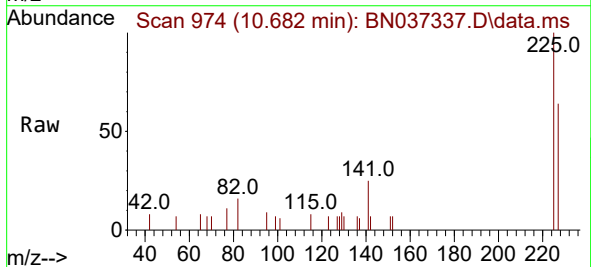
Instrument :
BNA_N
ClientSampleId :
PB168508BS

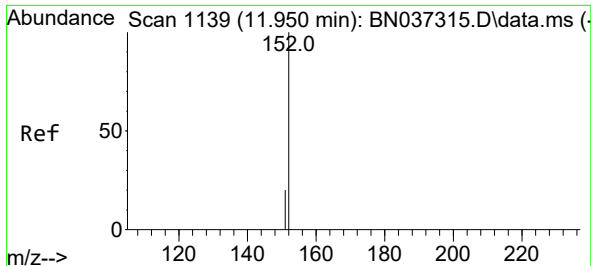
Tgt Ion:128 Resp: 2428
Ion Ratio Lower Upper
128 100
129 13.6 14.0 21.0#
127 16.5 15.8 23.8



#10
Hexachlorobutadiene
Concen: 0.318 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:225 Resp: 1119
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: 0.518 ng

RT: 11.945 min Scan# 1138

Delta R.T. -0.005 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

ClientSampleId :

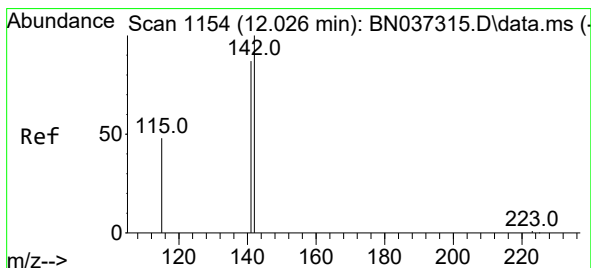
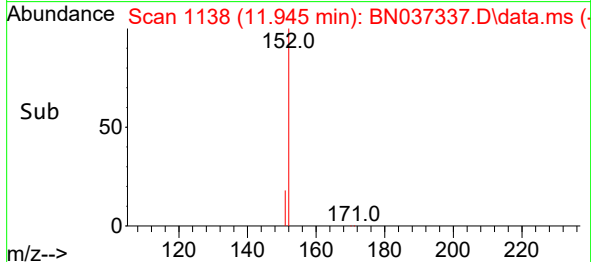
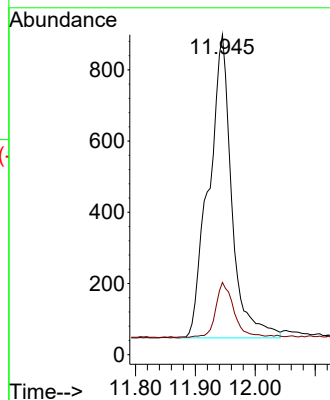
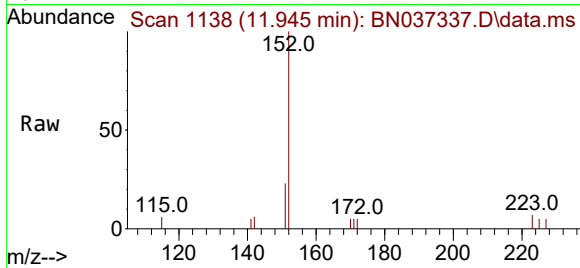
PB168508BS

Tgt Ion:152 Resp: 2266

Ion Ratio Lower Upper

152 100

151 14.1 17.4 26.0#



#12

2-Methylnaphthalene

Concen: 0.310 ng

RT: 12.021 min Scan# 1153

Delta R.T. -0.005 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

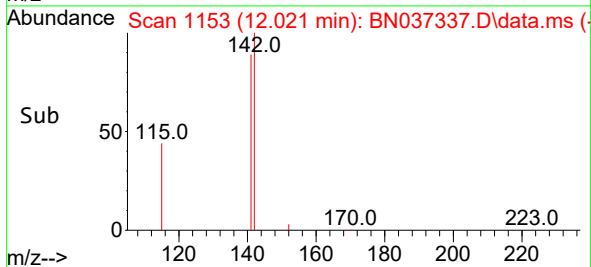
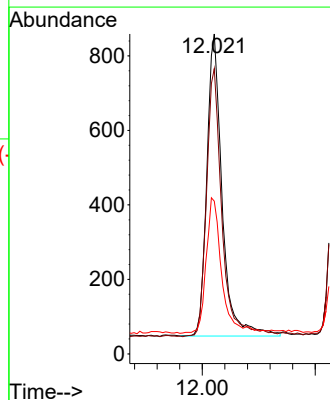
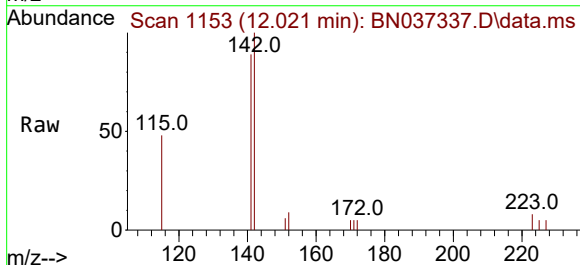
Tgt Ion:142 Resp: 1521

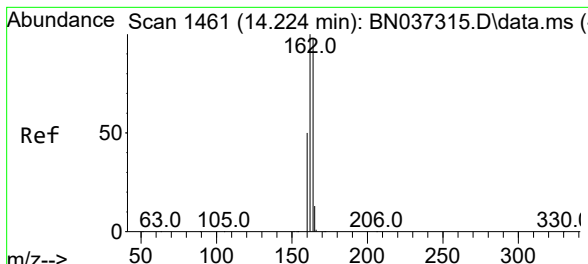
Ion Ratio Lower Upper

142 100

141 89.2 70.2 105.2

115 47.7 43.0 64.4



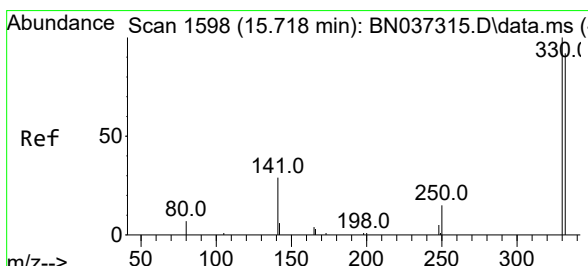
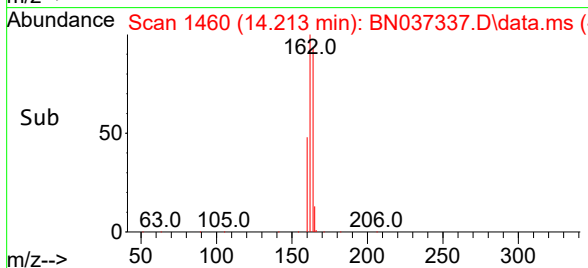
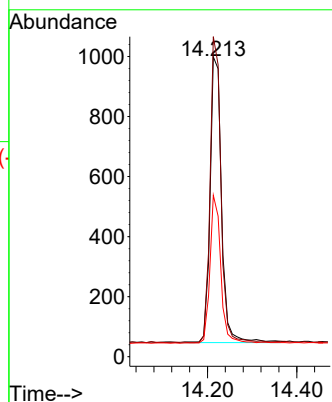
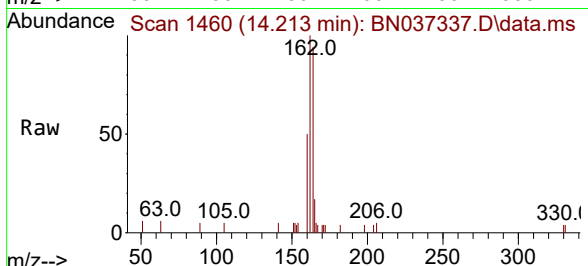


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Instrument :
BNA_N
ClientSampleId :
PB168508BS

Tgt Ion:164 Resp: 1686

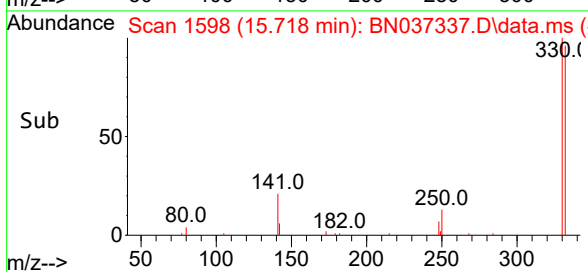
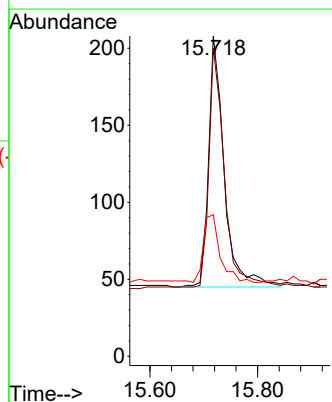
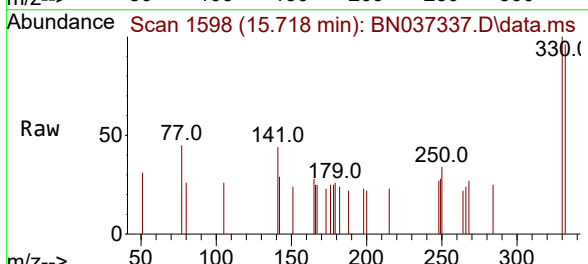
Ion	Ratio	Lower	Upper
164	100		
162	106.7	81.5	122.3
160	53.9	43.0	64.4

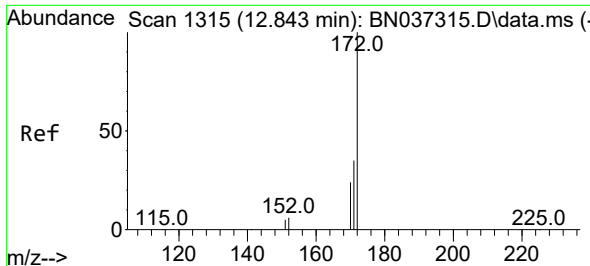


#14
2,4,6-Tribromophenol
Concen: 0.265 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:330 Resp: 329

Ion	Ratio	Lower	Upper
330	100		
332	93.0	78.4	117.6
141	28.9	24.4	36.6

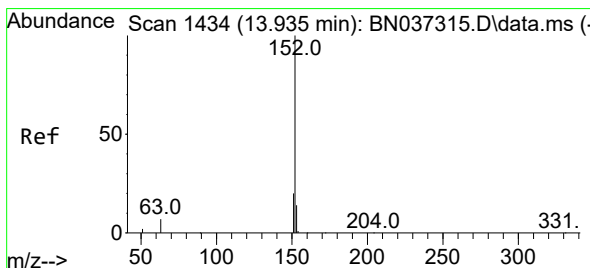
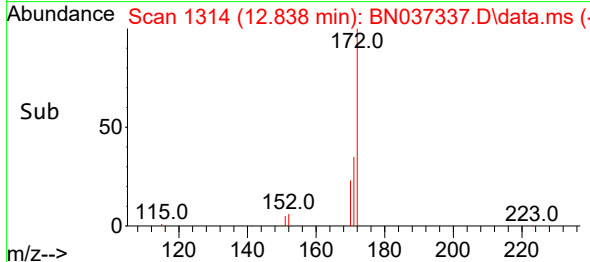
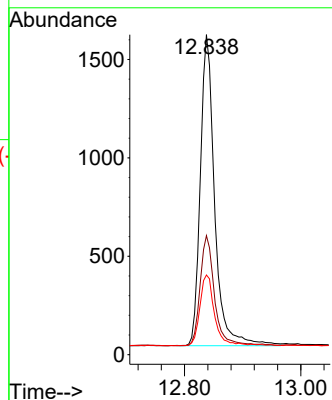
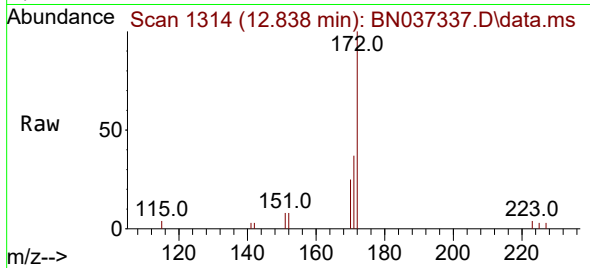




#15
2-Fluorobiphenyl
Concen: 0.368 ng
RT: 12.838 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

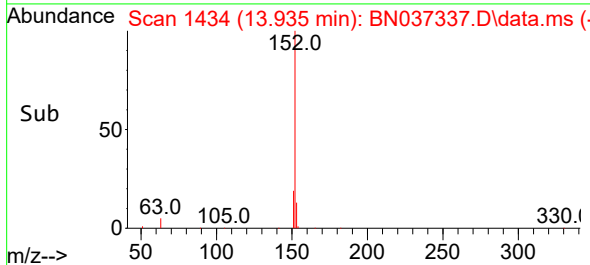
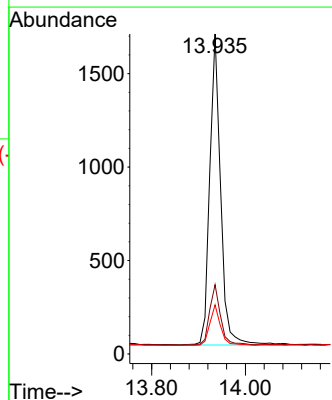
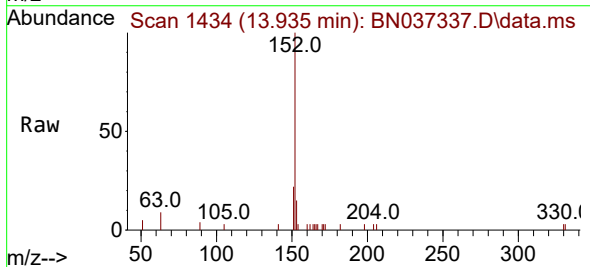
Instrument :
BNA_N
ClientSampleId :
PB168508BS

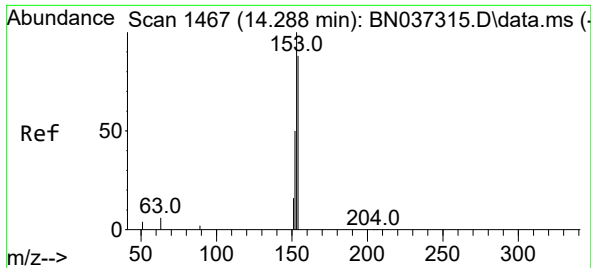
Tgt Ion:	172	Resp:	2716
Ion Ratio	Lower	Upper	
172	100		
171	37.2	30.8	46.2
170	24.9	21.9	32.9



#16
Acenaphthylene
Concen: 0.378 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:	152	Resp:	2681
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.6	24.8
153	13.0	10.2	15.2

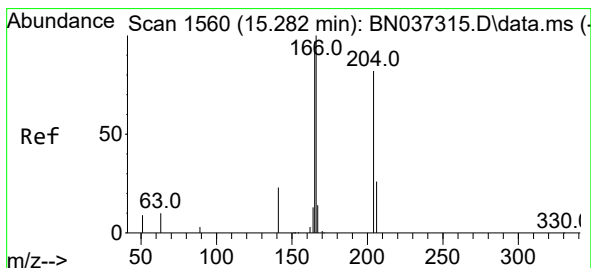
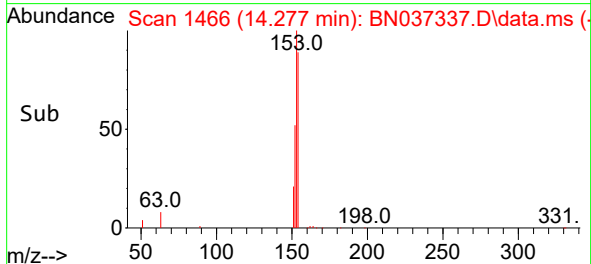
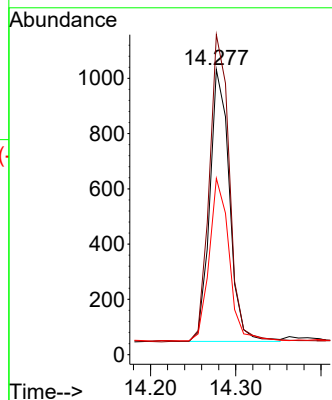
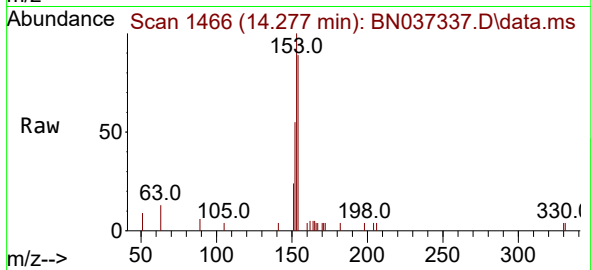




#17
Acenaphthene
Concen: 0.334 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

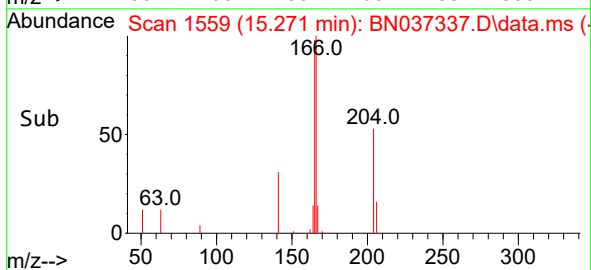
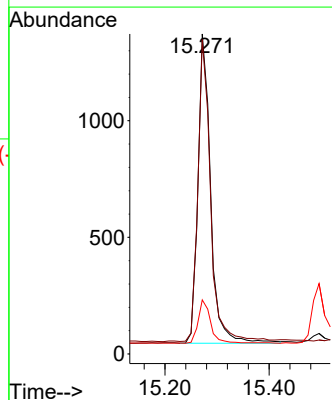
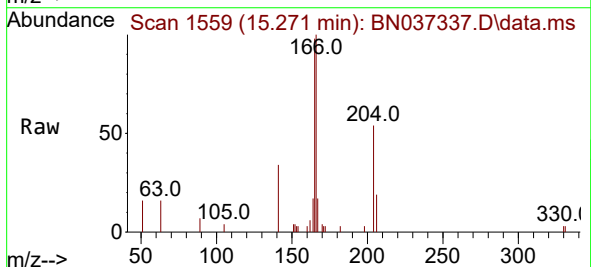
Instrument :
BNA_N
ClientSampleId :
PB168508BS

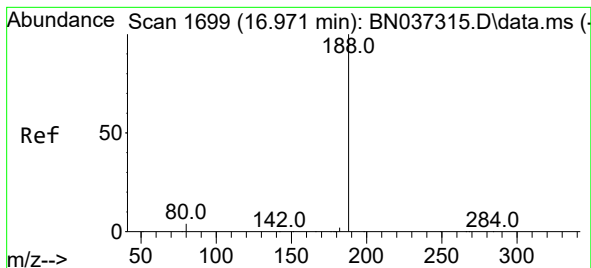
Tgt Ion:154 Resp: 1575
Ion Ratio Lower Upper
154 100
153 117.1 93.1 139.7
152 60.2 48.6 73.0



#18
Fluorene
Concen: 0.338 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.011 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:166 Resp: 2259
Ion Ratio Lower Upper
166 100
165 97.0 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: BN037337.D

Acq: 19 Jun 2025 05:54

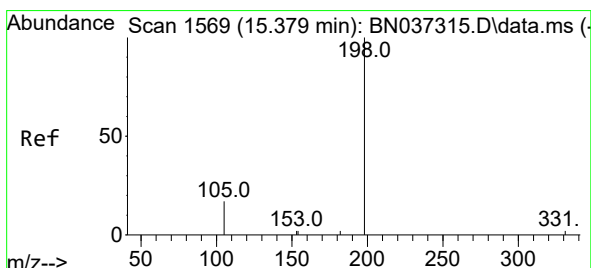
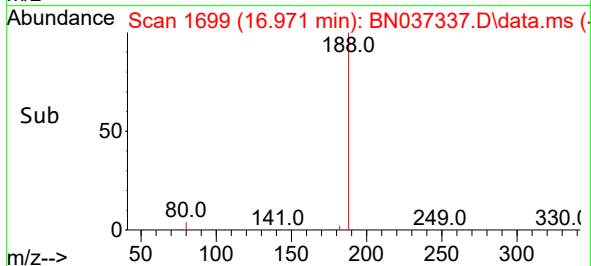
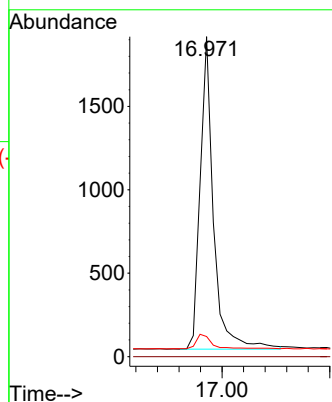
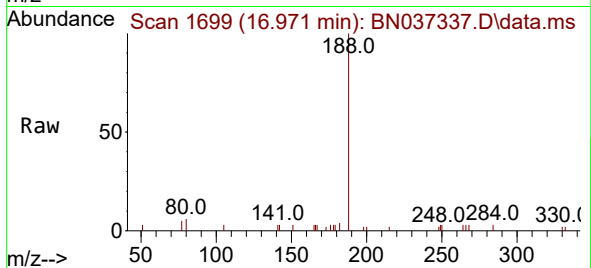
Instrument :

BNA_N

ClientSampleId :

PB168508BS

Tgt Ion:188	Resp:	3212
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0
80	6.3	9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.306 ng

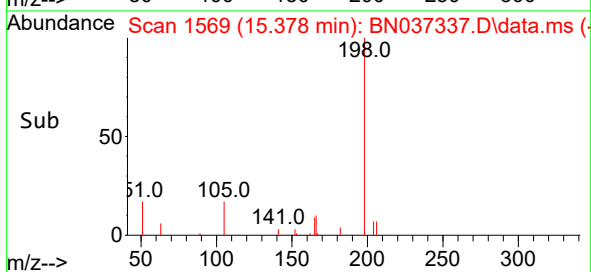
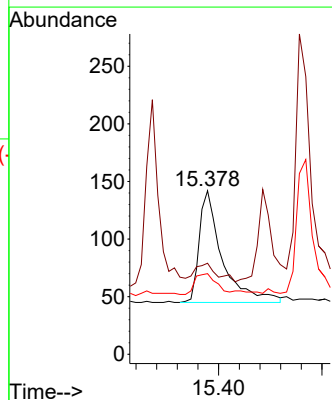
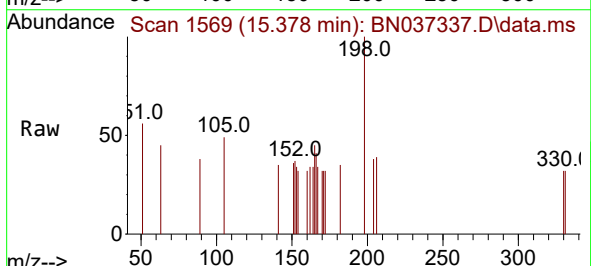
RT: 15.378 min Scan# 1569

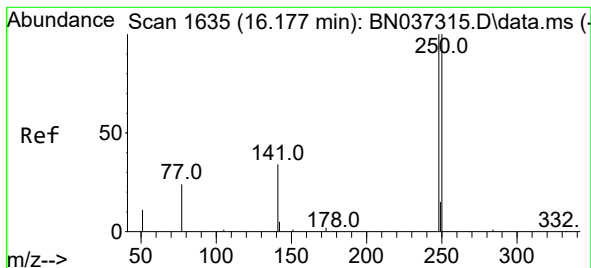
Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Tgt Ion:198	Resp:	302
Ion Ratio	Lower	Upper
198	100	
51	55.6	51.4
105	49.3	68.3

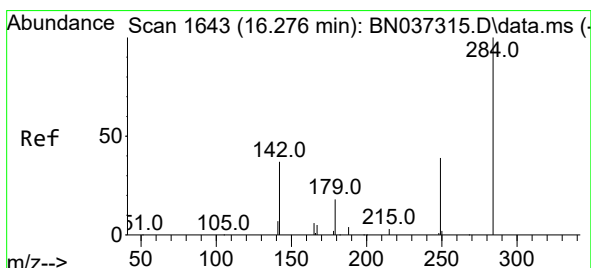
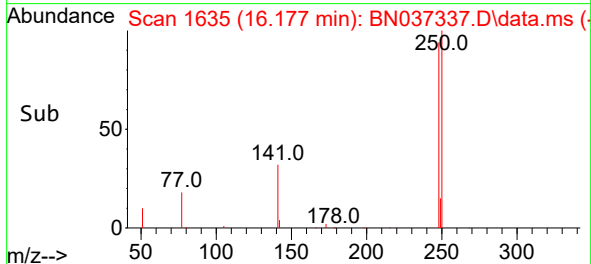
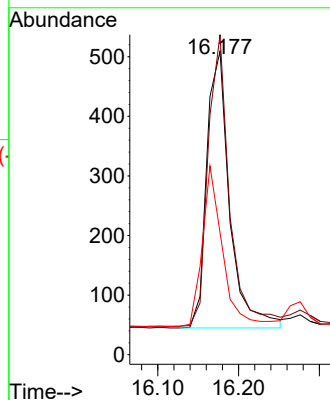
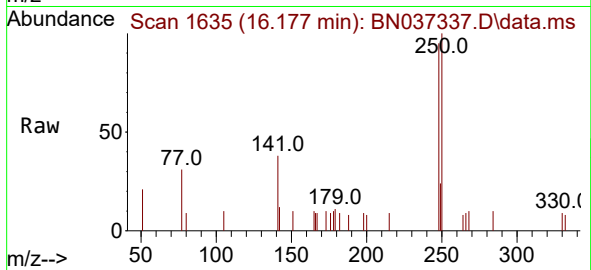




#21
4-Bromophenyl-phenylether
Concen: 0.343 ng
RT: 16.177 min Scan# 1635
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

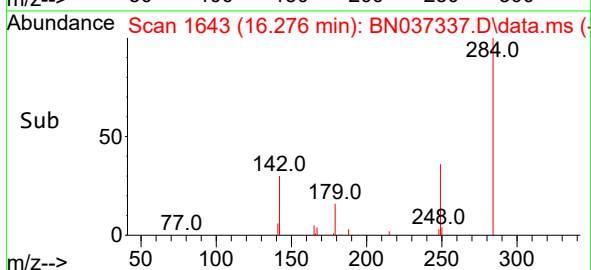
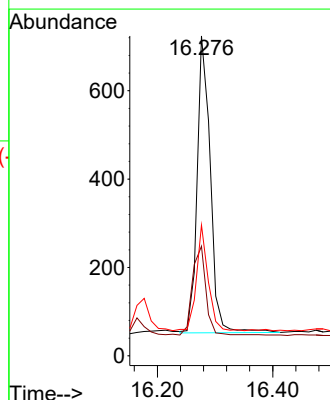
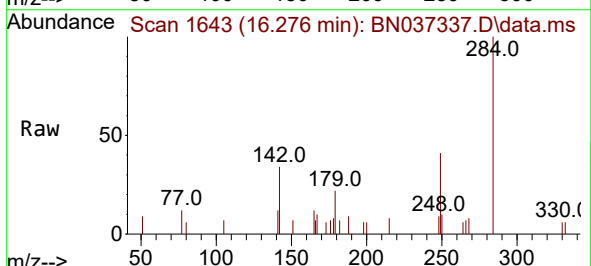
Instrument :
BNA_N
ClientSampleId :
PB168508BS

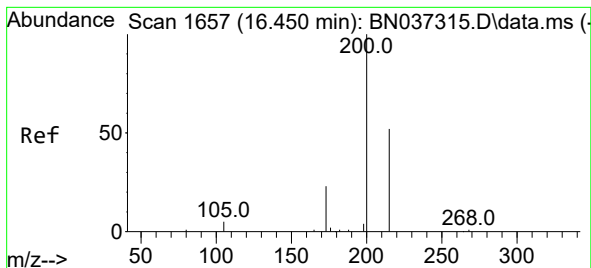
Tgt Ion:248 Resp: 914
Ion Ratio Lower Upper
248 100
250 105.5 80.4 120.6
141 40.3 33.3 49.9



#22
Hexachlorobenzene
Concen: 0.382 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:284 Resp: 1066
Ion Ratio Lower Upper
284 100
142 30.2 27.0 40.6
249 31.9 28.8 43.2





#23

Atrazine

Concen: 0.357 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

ClientSampleId :

PB168508BS

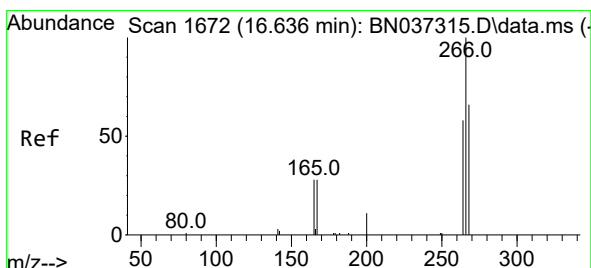
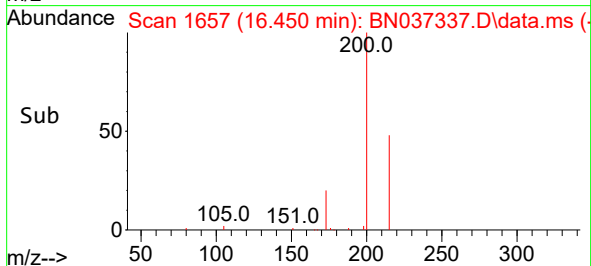
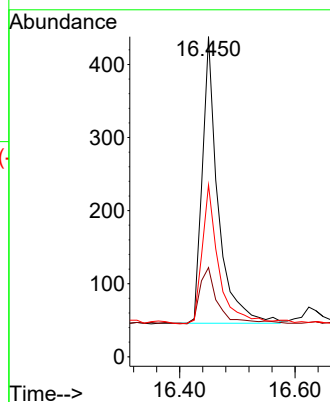
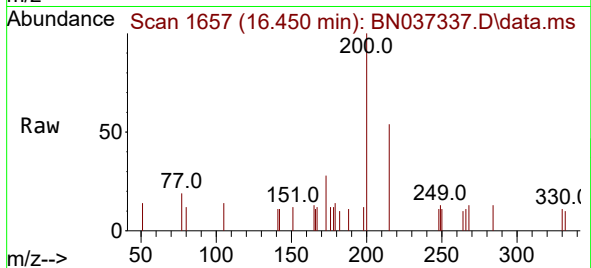
Tgt Ion:200 Resp: 743

Ion Ratio Lower Upper

200 100

173 27.9 29.2 43.8#

215 53.7 48.8 73.2



#24

Pentachlorophenol

Concen: 0.162 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.013 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

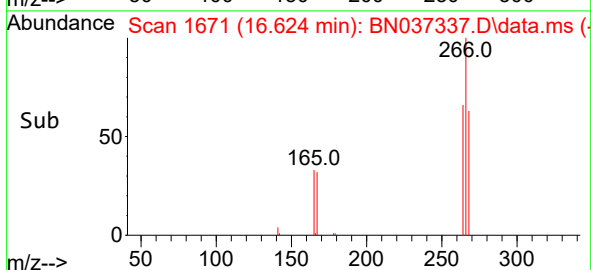
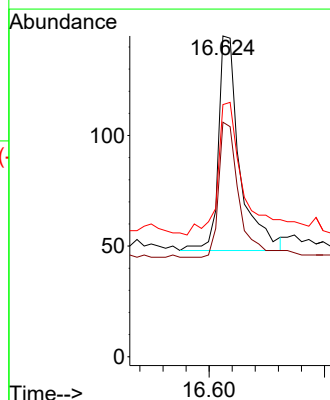
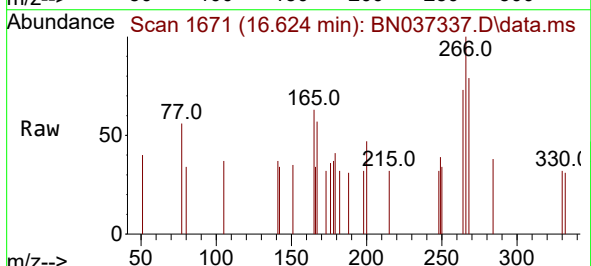
Tgt Ion:266 Resp: 250

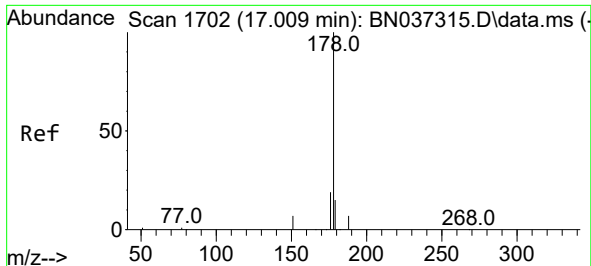
Ion Ratio Lower Upper

266 100

264 62.0 50.3 75.5

268 77.6 55.3 82.9

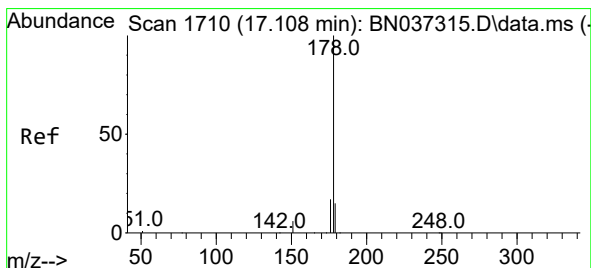
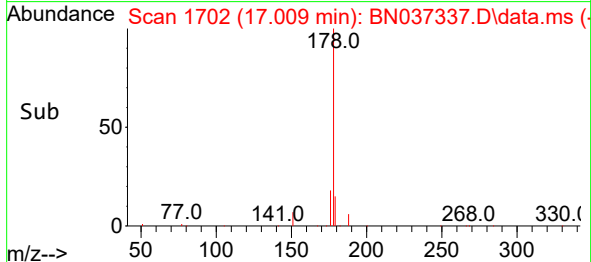
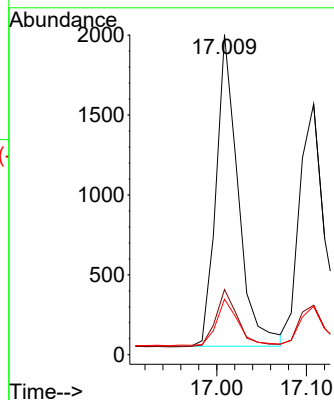
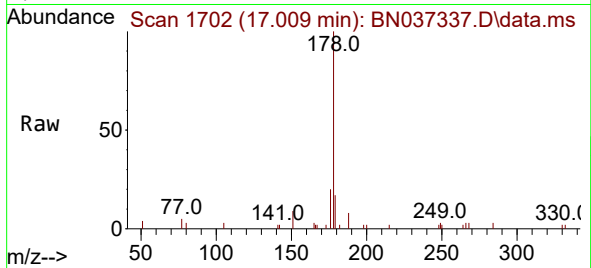




#25
Phenanthrene
Concen: 0.368 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

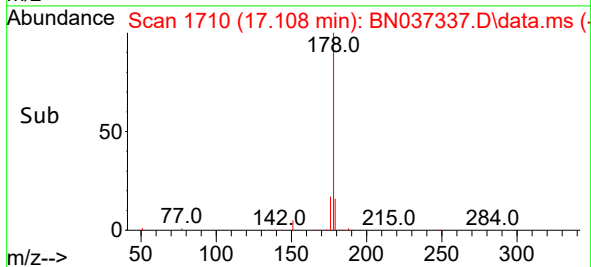
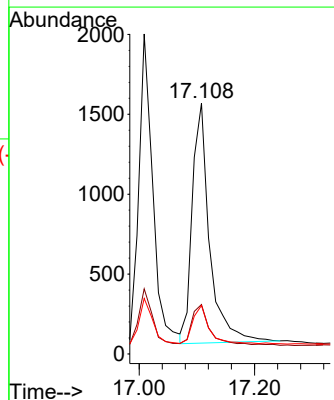
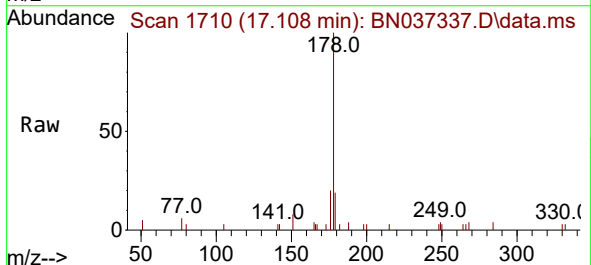
Instrument :
BNA_N
ClientSampleId :
PB168508BS

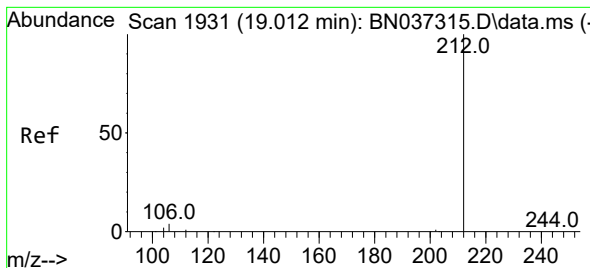
Tgt Ion:178 Resp: 3326
Ion Ratio Lower Upper
178 100
176 18.9 15.2 22.8
179 15.0 12.9 19.3



#26
Anthracene
Concen: 0.369 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:178 Resp: 3130
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 16.4 13.0 19.6

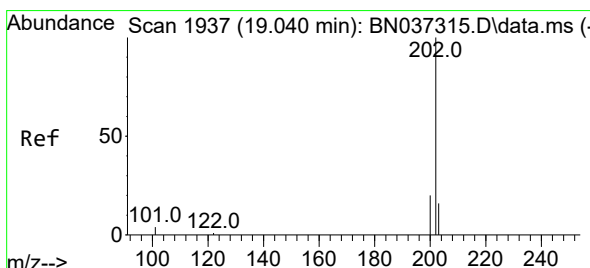
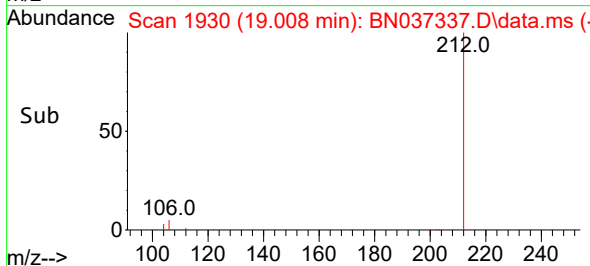
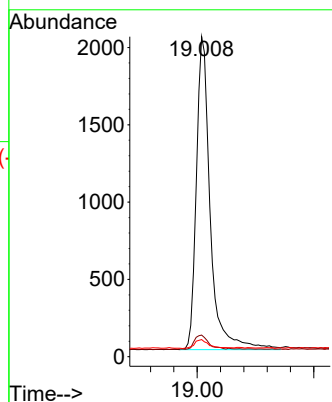
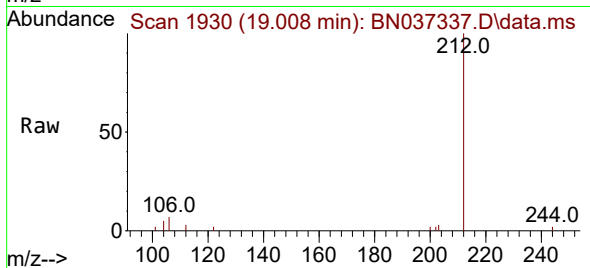




#27
Fluoranthene-d10
Concen: 0.329 ng
RT: 19.008 min Scan# 1930
Delta R.T. -0.005 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

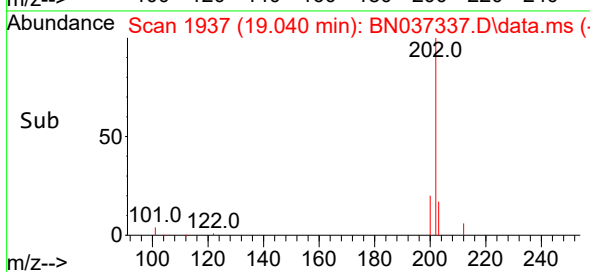
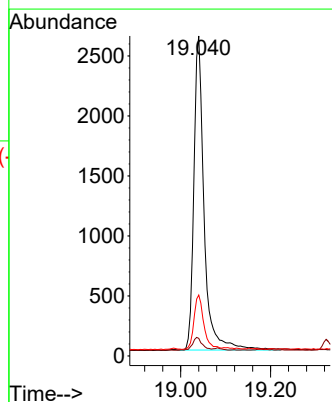
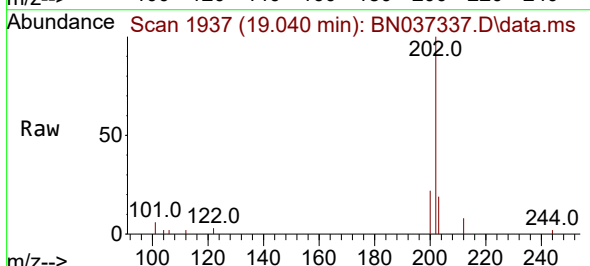
Instrument :
BNA_N
ClientSampleId :
PB168508BS

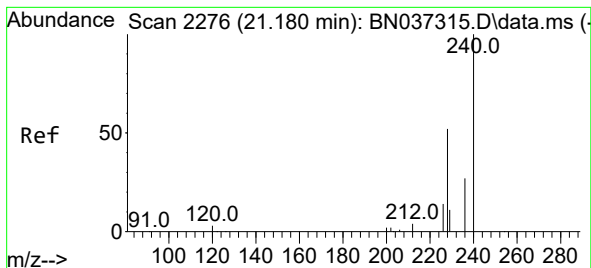
Tgt Ion:212 Resp: 3351
Ion Ratio Lower Upper
212 100
106 4.7 3.0 4.4#
104 3.0 2.0 3.0#



#28
Fluoranthene
Concen: 0.331 ng
RT: 19.040 min Scan# 1937
Delta R.T. -0.000 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:202 Resp: 4162
Ion Ratio Lower Upper
202 100
101 3.9 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. -0.009 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

ClientSampleId :

PB168508BS

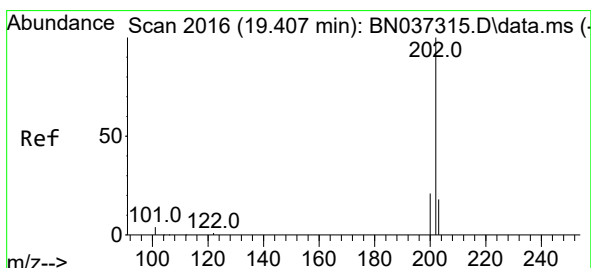
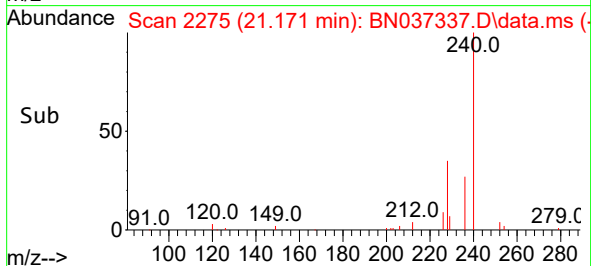
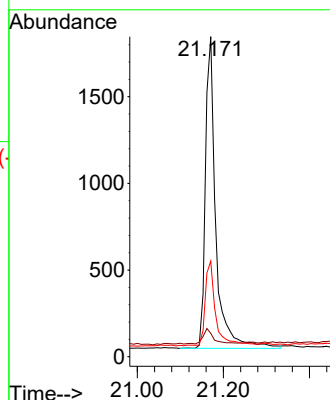
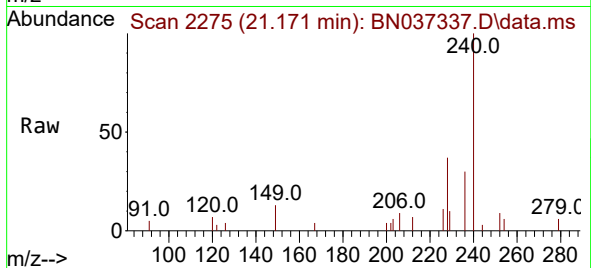
Tgt Ion:240 Resp: 3029

Ion Ratio Lower Upper

240 100

120 7.3 7.5 11.3#

236 29.8 24.9 37.3



#30

Pyrene

Concen: 0.363 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.005 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

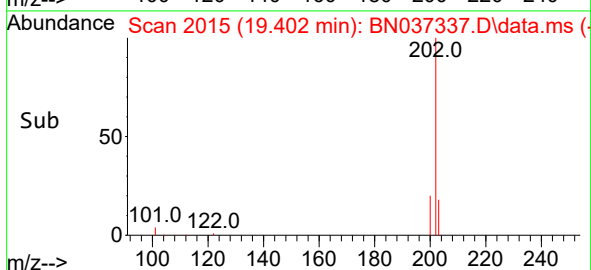
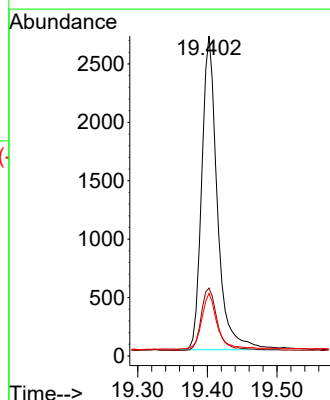
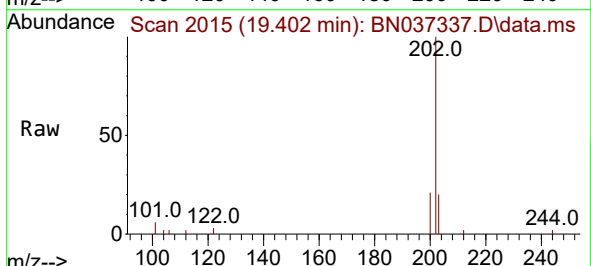
Tgt Ion:202 Resp: 4189

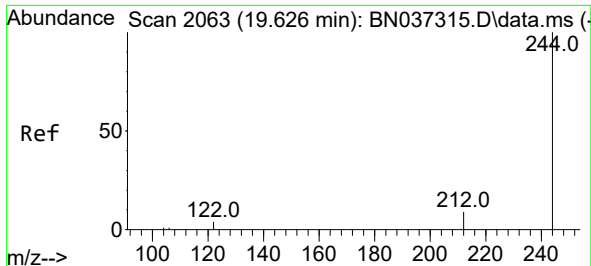
Ion Ratio Lower Upper

202 100

200 20.7 16.8 25.2

203 17.8 14.5 21.7

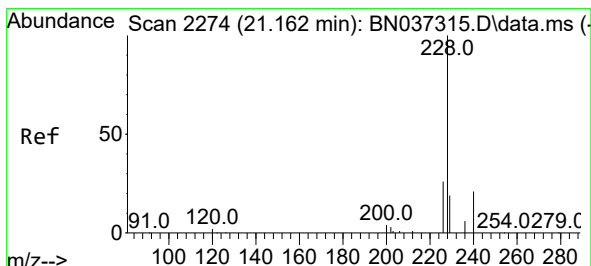
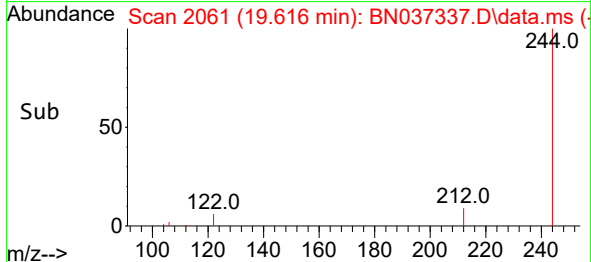
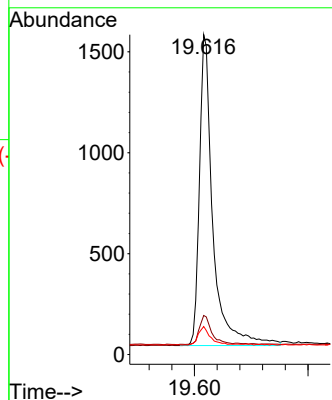
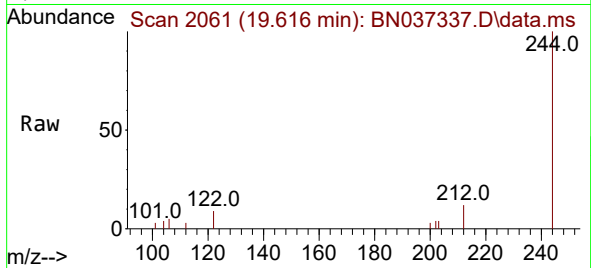




#31
 Terphenyl-d14
 Concen: 0.363 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. -0.009 min
 Lab File: BN037337.D
 Acq: 19 Jun 2025 05:54

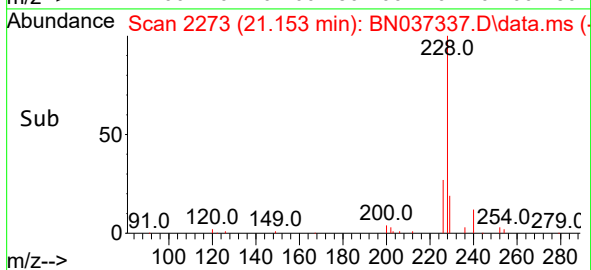
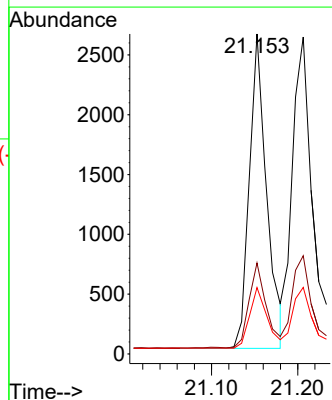
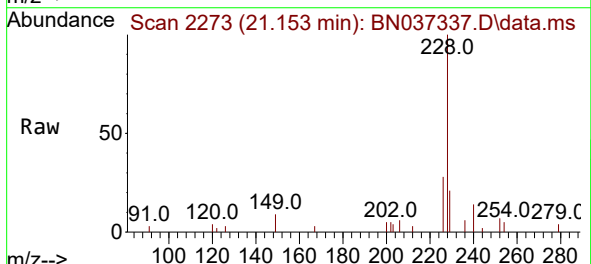
Instrument :
 BNA_N
 ClientSampleId :
 PB168508BS

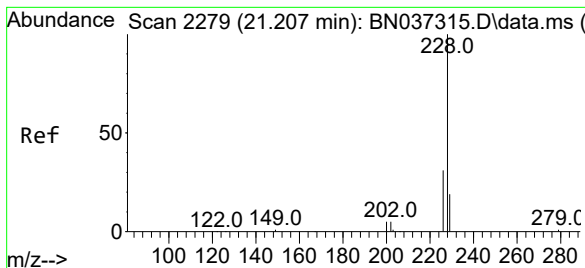
Tgt Ion:244	Resp:	2523
Ion Ratio	Lower	Upper
244	100	
212	12.2	11.1 16.7
122	8.8	7.2 10.8



#32
 Benzo(a)anthracene
 Concen: 0.377 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. -0.009 min
 Lab File: BN037337.D
 Acq: 19 Jun 2025 05:54

Tgt Ion:228	Resp:	3675
Ion Ratio	Lower	Upper
228	100	
226	28.4	23.0 34.4
229	20.7	17.4 26.0





#33

Chrysene

Concen: 0.363 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

Instrument :

BNA_N

ClientSampleId :

PB168508BS

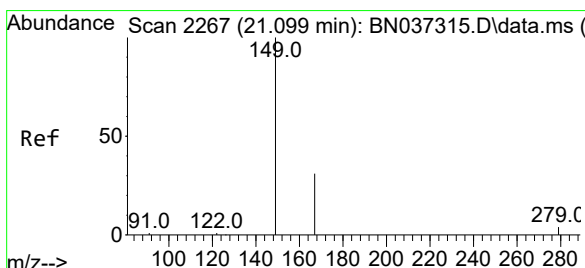
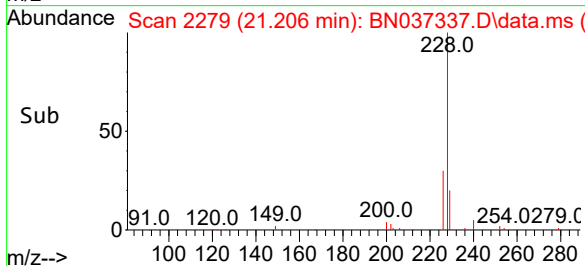
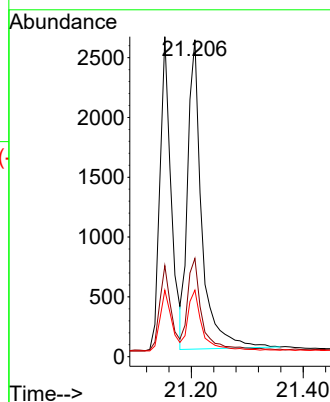
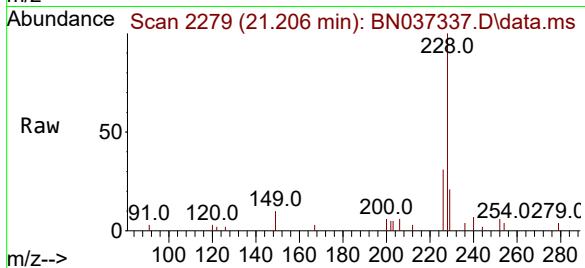
Tgt Ion:228 Resp: 4517

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.2

229 21.0 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.384 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037337.D

Acq: 19 Jun 2025 05:54

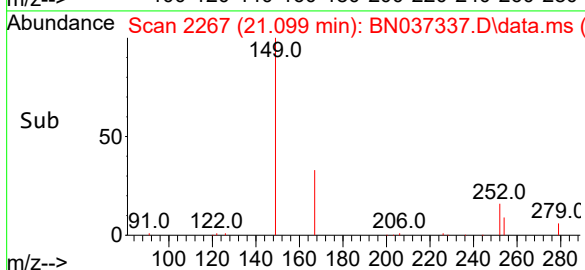
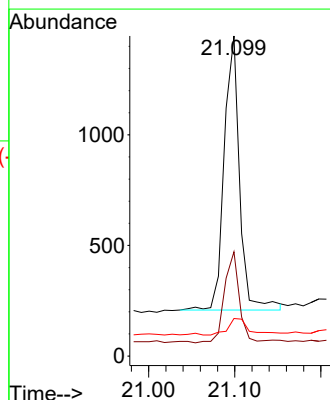
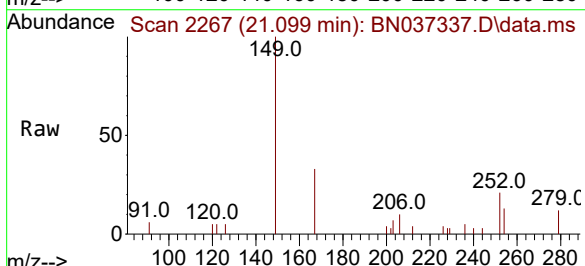
Tgt Ion:149 Resp: 1537

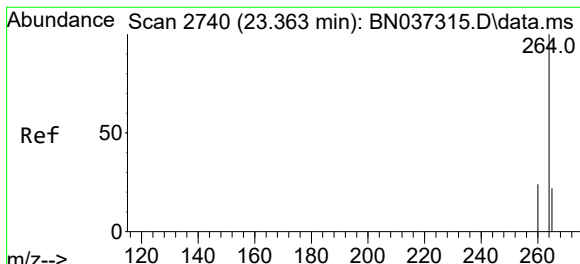
Ion Ratio Lower Upper

149 100

167 31.9 24.6 37.0

279 8.3 6.5 9.7

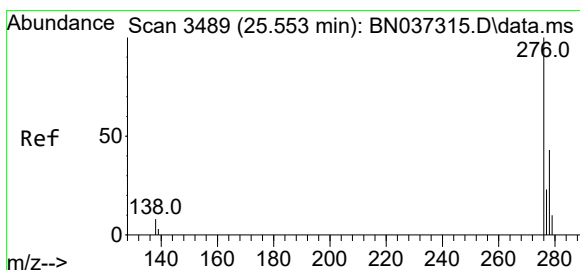
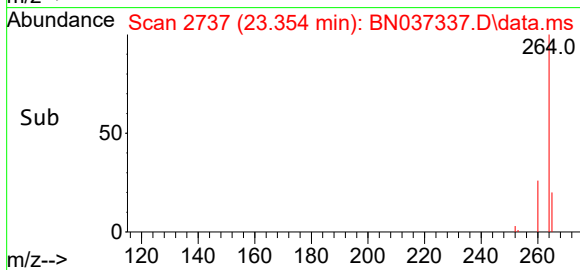
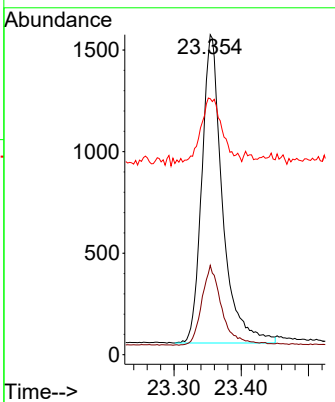
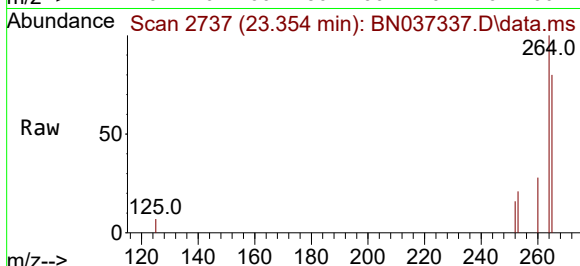




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.354 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN037337.D
 Acq: 19 Jun 2025 05:54

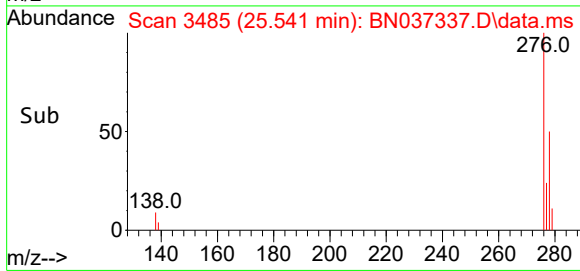
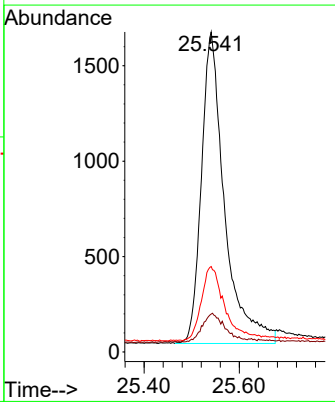
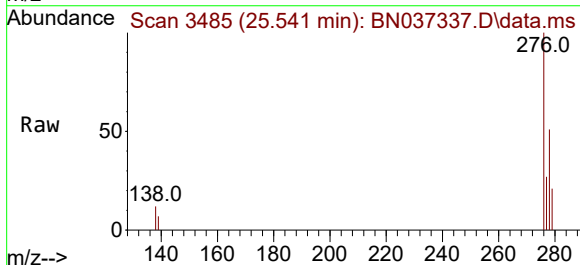
Instrument :
 BNA_N
 ClientSampleId :
 PB168508BS

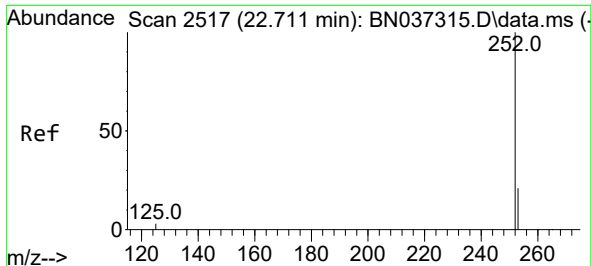
Tgt Ion:	264	Resp:	3232
Ion Ratio	Lower	Upper	
264	100		
260	27.9	21.4	32.2
265	80.0	71.4	107.0



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.405 ng
 RT: 25.541 min Scan# 3485
 Delta R.T. -0.012 min
 Lab File: BN037337.D
 Acq: 19 Jun 2025 05:54

Tgt Ion:	276	Resp:	5500
Ion Ratio	Lower	Upper	
276	100		
138	8.9	2.2	3.2#
277	24.1	17.1	25.7

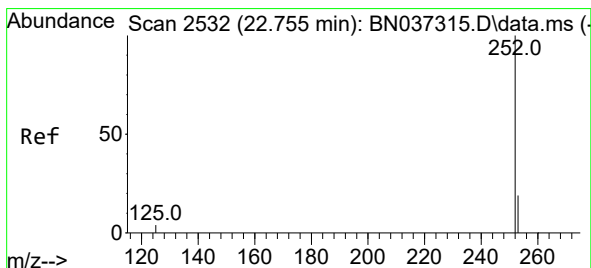
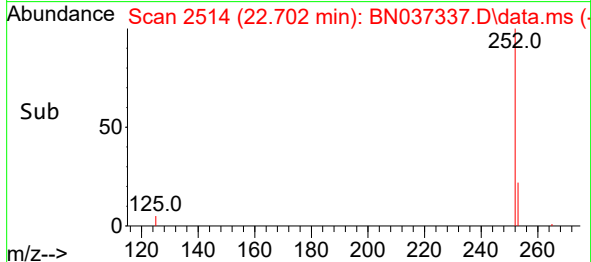
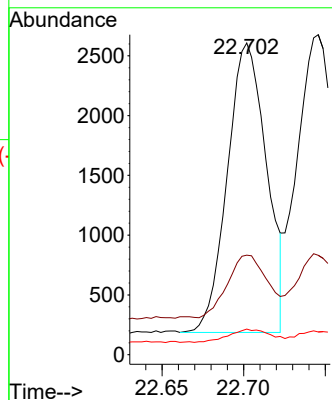
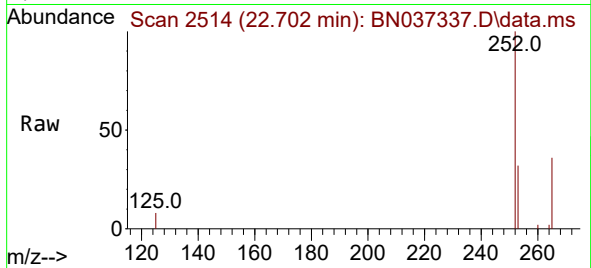




#37
Benzo(b)fluoranthene
Concen: 0.358 ng
RT: 22.702 min Scan# 2514
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

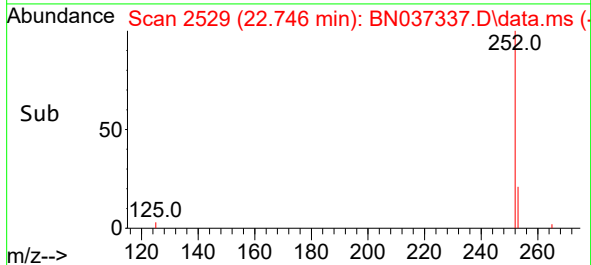
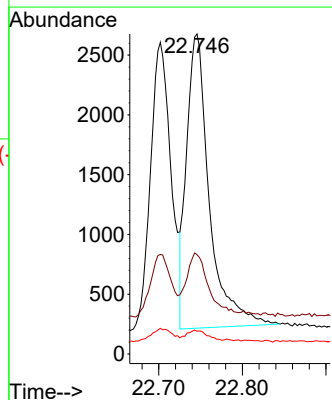
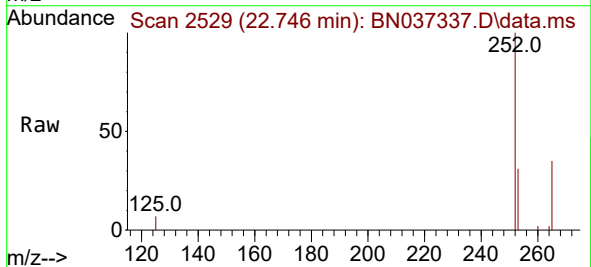
Instrument :
BNA_N
ClientSampleId :
PB168508BS

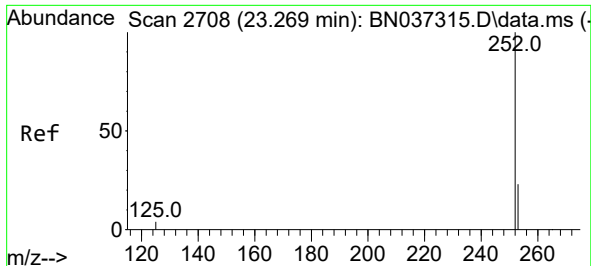
Tgt Ion:252 Resp: 4039
Ion Ratio Lower Upper
252 100
253 31.9 26.6 40.0
125 8.2 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.374 ng
RT: 22.746 min Scan# 2529
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

Tgt Ion:252 Resp: 4639
Ion Ratio Lower Upper
252 100
253 31.1 26.7 40.1
125 7.1 6.5 9.7

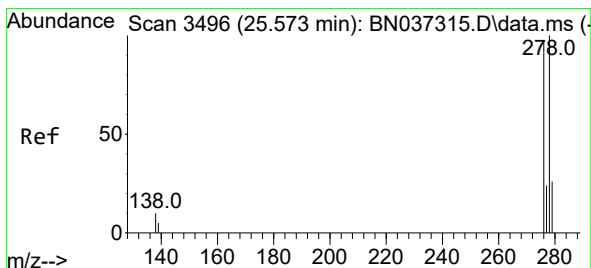
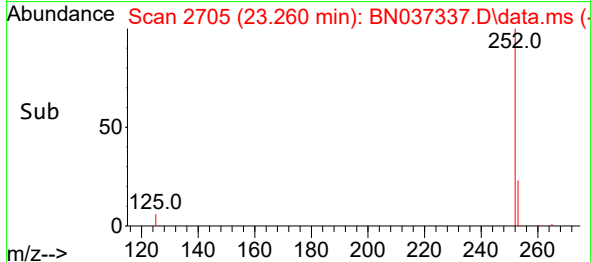
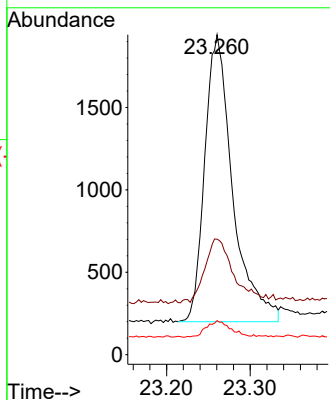
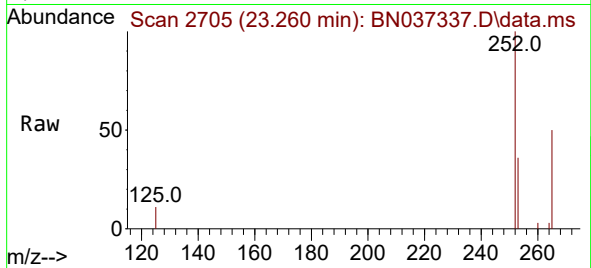




#39
Benzo(a)pyrene
Concen: 0.386 ng
RT: 23.260 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

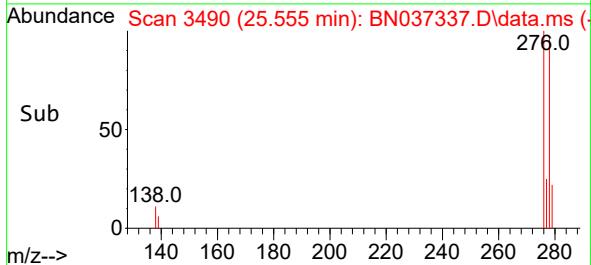
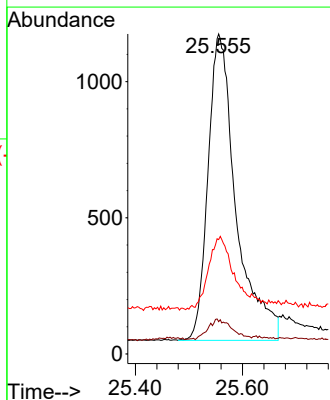
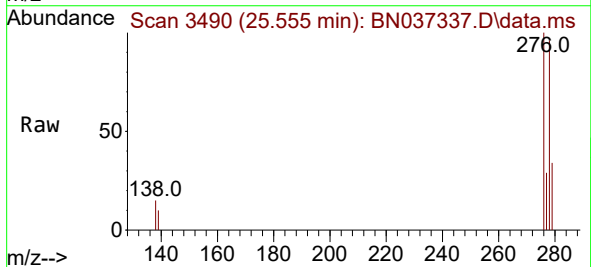
Instrument :
BNA_N
ClientSampleId :
PB168508BS

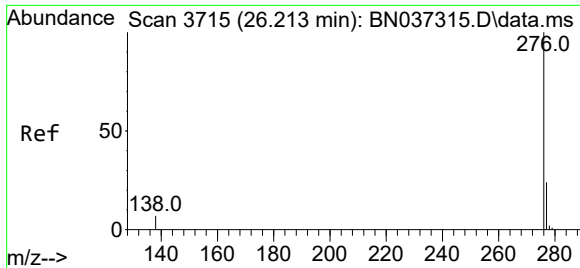
Tgt Ion:252	Resp:	4040
Ion Ratio	Lower	Upper
252	100	
253	36.1	31.6 47.4
125	10.7	8.4 12.6



#40
Dibenzo(a,h)anthracene
Concen: 0.375 ng
RT: 25.555 min Scan# 3490
Delta R.T. -0.018 min
Lab File: BN037337.D
Acq: 19 Jun 2025 05:54

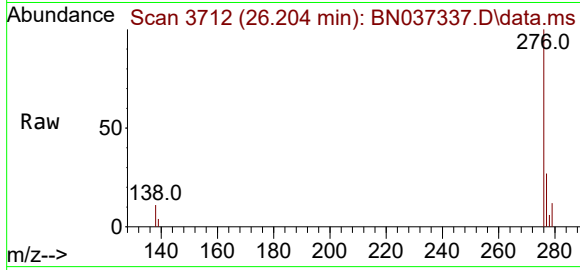
Tgt Ion:278	Resp:	4089
Ion Ratio	Lower	Upper
278	100	
139	10.1	10.2 15.4#
279	35.7	35.6 53.4





#41
 Benzo(g,h,i)perylene
 Concen: 0.373 ng
 RT: 26.204 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: BN037337.D
 Acq: 19 Jun 2025 05:54

Instrument :
 BNA_N
 ClientSampleId :
 PB168508BS



Tgt Ion:	276	Resp:	4647
Ion Ratio	Lower	Upper	
276	100		
277	27.0	22.7	34.1
138	10.7	9.4	14.2

